PROJECT SITE VICINITY MAP TG 530-A6, 530-D6

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS LOS ANGELES

LOS ANGELES RIVER HEADWATERS LANDSCAPE IMPROVEMENTS, PEDESTRIAN TRAIL AND PEDESTRIAN BRIDGE OVERCROSSINGS

OWENSMOUTH AVENUE TO MASON AVENUE TOTAL LENGTH OF PROJECT = 1.25 MILES PROJECT ID NO. FCC0001174

PROJECT NOTES:

LEGAL DESCRIPTION PROVIDE INFORMATION IF APPLICABLE

BENCHMARK: (PROVIDE INFORMATION IF APPLICABLE)

WATER PURVEYOR:
LOS ANGELES DEPARTMENT OF WATER AND POWER CONTACT ANGAD FARAG AT (213) 367-0328

1. STREET TREES WITHIN PUBLIC RIGHT OF WAY ARE TO BE

2. ALL HARDSCAPES, RETAINING WALLS, SWIMMING POOLS AND/OR BLOCK WALLS MUST BE REVIEWED AND APPROVED UNDER A SEPARATE PERMIT.

3. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT, TWO DAYS BEFORE YOU DIG AT 1-800-227-2600.

4 ALL PLANTING SHALL FOLLOW THE LOS ANGELES RIVER MASTER PLAN LANDSCAPING GUIDELINES AND PLANT
PALETTES, JANUARY 2004 PER COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

5 LONG TERM MAINTENANCE:

LA COUNTY FLOOD CONTROL DISTRICT WILL BE RESPONSIBLE FOR THE IMPROVEMENTS AND MAINTENANCE AFTER THE TWO YEAR ESTABLISHMENT PERIOD, USER SHALL MAINTAIN THE MPROVEMENTS UNTIL THE TWO YEAR PLANT ESTABLISHMENT WORK HAS BEEN SATISFACTORILY COMPLETED AS DETERMINED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS ON BEHALF OF THE DISTRICT IF MAINTENANCE IS LINSATISFACTORY. THE LISER SHALL PLANTING IS IN HEALTHY THRIVING CONDITION AS DETERMINED BY

THE COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS.

LS-1.5, 1.17,

6. FUEL MODIFICATION PLAN IS NOT

DEPUTY FORESTER FUEL MODIFICATION (626) 909-520-5605 N. ANGELINO AVENUE, AZUSA, CA 91702

LS-1.6, 1.18,

PROJECT INFORMATION

PROJECT AREA

184,950 SF HARDSCAPE AREA TOTAL 30.430 SF DECOMPOSED GRANITE PAVING AREA TOTAL 135,900 SF

TOTAL PROJECT AREA

(NOTE: THE INFORMATION ABOVE DOES NOT SUPERCEDE OR TAKE PRECEDENCE OVER ANY OF THE CONTRACT DOCUMENTS. THE INFORMATION ABOVE IS FOR PURPOSES INTERNAL TO THE AGENCY AND NOT FOR CONTRACT ADMINISTRATION

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CIVIL

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BRIDGE DETAILS SHEET 8 SHEET 9 LOG OF BORINGS PEDESTRIAN BRIDGE OVER DE SOTO DRAIN

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COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

LOS ANGELES RIVER HEADWATERS PROJECT

TITLE SHEET

PCA EF1931013W FCC0001174

LS-1.3, 1.15, 2.3, 3.3, 4.3, 5.1 LS-1.4, 1.16, 2.4, 3.4, 4.4. 5.2 LS-1.1, 1.13, 2.1, 3.1, 4.1, 5.1 LS-1.2. 1.14. 2.2. 3.2. 4.2 . 5.1 2.5, 3.5, 4.5, 5.2 2.6, 3.6, 4.6, 5.2 LS-1.11, 1.23, 2.11 LS-1.12, 1.24, 2.12 LS-1.9, 1.21, 2.9, 3.9, 4.9, 5.3 LS-1.10, 1.22, 2.10, 3.10, 4.10, 5.4 LS-1.8, 1.20, 2.8, 3.8, 4.8, 5.3 3.11, 4.11, 5.4 3.12, 4.12, 5.4

KEY MAP

NO. 12345 DESCRIPTION

LS-0.1

GENERAL PLANTING NOTES

- 1. PLANT QUANTITIES IN LEGEND IS FOR CONTRACTOR'S CONVENIENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL PLANTS SHOWN ON PLANTING PLANS.
- 2. ALL TREES ARE TO BE PLANTED MIN. 20' FROM EXISTING POWER POLES (WHERE APPLICABLE).
- CONTRACTOR SHALL PROVIDE 3" DEEP LAYERS OF MEDIUM TO FINE TEXTURED (3/4" TO 2") GRIND WOOD BY-PRODUCT OR SHREDDED BARK MULCH TO ALL PLANTED AREAS WITH THE EXCEPTION OF CRUSHED ROCK PAVING AREA. COLOR OF MULCH SHALL BE DARK.
- 4. CONTRACTOR SHALL INSTALL AN EDGING MATERIAL SEPARATING PLANTING AND DECOMPOSED GRANITE APEAS
- 5. PLANS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ENGINEER ANY PERCEIVED DISCREPANCY BEFORE THE START OF CONSTRUCTION.
- 6. CONTRACTOR SHALL PROVIDE AND INSTALL IMPORTED TOP SOIL TO FILL IN AREAS WHERE PLANTINGS ARE PROPOSED. IMPORTED TOP SOIL SHALL BE CLASS "A" TOP SOIL. AN AGRONOMICAL SOILS REPORT SHALL BE SUBMITTED PER SECTION L, LANDSCAPE 1.02-2 OF SPECIAL PROVISIONS, REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO THE DELIVERY OF THE SOIL ON SITE.
- 7. REFER TO CONSTRUCTION PLANS FOR EXACT LOCATION OF EXISTING PLANT MATERIALS TO BE SAVED IN PLACE, REFER TO DEMOLITION PLAN FOR EXISTING TREES TO BE REMOVED.
- CONTRACTOR SHALL PRUNE AND REMOVE DEAD BRANCHES FROM ALL EXISTING TREES AND SHRUBS TO REMAIN. FOR ALL EXISTING TREES 12 FEET AND HIGHER, REMOVE ALL BRANCHES 7 FEET ABOVE ADJACENT GROUND (MEASURED AT UPPER SIDE OF SLOPE).
- ALL 5 GALLON SHRUBS ARE TO BE PLANTED MIN. 18" FROM BACK OF THE CURB, WALL, BIKE PATH,
 UTILITY BOXES AND WALKWAYS TO CENTER POINT OF PLANT. ALL 1 GALLON SHRUBS ARE TO BE
 PLANTED MIN. 12" FROM BACK OF THE CURB, WALL, PAVEMENT, BIKE PATH, AND UTILITY BOXES TO
 CENTER POINT OF PLANT. ALL TREES SHALL BE PLANTED A MINIMUM OF 17" BEHIND THE EDGE OF
 CHANNEI
- 10. ANY SOIL PREPARATION AND PLANTING WITHIN THE DRIP LINE OF THE EXISTING TREES SHALL BE DONE BY HAND.

GENERAL CONSTRUCTION/REMOVAL NOTES:

- 1. PLANS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ENGINEER ANY PERCEIVED DISCREPANCY BEFORE THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL LAY OUT HEADER WORK AND OBTAIN APPROVAL FROM THE ENGINEER PRIOR TO CASTING THE CONCRETE.
- 8. CONTRACTOR SHALL SUBMIT SAMPLES FOR CONCRETE, DECOMPOSED GRANITE CRUSHED ROCK PAVINGS AND RIVER ROCK WALL CLADDING PER 2-5.3 OF THE PROVISIONS. CONTRACTOR SHALL PROVIDE 2'X2' SAMPLES FOR EACH MATE IN FIELD FOR ENGINEER'S REVIEW AND APPROVAL PRIOR TO COMMENCING WORK. (SAMF 3 TO INCLUDE COLOR AND FINISH). ALL SAMPLES SHALL REMAIN ON-SITE UNTIL JOB COMPON.
- 4. SEE SHEET LS-2.31 TO LS-2.38 FOR CONSTRUCTION DETAILS.
- 5. ALL EXISTING ELEMENTS NOT DESIGNATED TO BE REMOVED SHALL BE PROTECTED IN PLACE.
- CONTRACTOR SHALL INSTALL JUTE MATTING ON PLANTING AREAS WITH SLOPE STEET HAN
 3:1 (EXCEPT FOR AREAS WITH ROCK MULCH). REFER TO SPECIAL PROVISIONS FOR INFORMATION.
- 7. ALL EXISTING IN-FILL PAVEMENT WITHIN THE PLANTING AREA SHALL BE REMOVED AND DISPOSED OFF SITE
- B. FOR PROPOSED CONCRETE, DECOMPOSED GRANITE AND FLAGSTONE PAVEMENT AREAS, CONTRACTOR SHALL REMOVE AND DISPOSE ALL EXISTING PAVEMENT MATERIAL, BASE AND EXISTING SOIL TO ALLOW NEW PAVEMENT.
- THE CONTRACTOR SHALL REMOVE ALL VEGETATION, HILLSIDE SLOUGHAGE AND OTHER MATERIALS THAT INTERFERES WITH CONSTRUCTION. PAYMENT SHALL BE PART OF THE BID ITEM FOR CLEARING AND GRUBBING.
- 10. THE CONTRACTOR SHALL REMOVE ALL FOLIAGE, VINES AND DEBRIS ON EXISTING CHAIN LINK FENCE WITHIN THE LOS ANGELES COUNTY FLOOD CONTROL RIGHT OF WAY. PAYMENT SHALL BE PART OF THE BID ITEM FOR CLEARING AND GRUBBING.

ELECTRIC INSTALLATION NOTES:

CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING:

- NEW ELECTRICAL SERVICE(S) WILL BE APPLIED AND PAID FOR BY THE AGENCY PRIOR TO THE STARTING OF THE PROJECT. CONTRACTOR SHALL COORDINATE ALL ELECTRICAL INSTALLATION & CONNECTION WORK WITH LOS ANGELES DEPARTMENT OF WATER AND POWER (LADWP).
 VERIFY LOCATIONS OF THE NEW ELECTRICAL METERS IN FIELD. OBTAIN CONSTRUCTION MAP AND ELECTRICAL INSTALLATION REQUIREMENTS FROM LADWP PRIOR TO STARTING OF ANY ELECTRICAL MODITION.
- PROVIDE AND INSTALL OUTDOOR COMBINATION ELECTRICAL METER/IRRIGATION CONTROLLER
 PEDESTAL ENCLOSURE (TOTAL OF 6) WHERE SHOWN ON IRRIGATION PLANS AND PER LADWP
 REQUIREMENTS. VERIFY PROPOSED LOCATION WITH LADWP PRIOR TO INSTALLATION.
- 3. NOTIFY LADWP FOR INSPECTION AND APPROVAL 48 HR. IN ADVANCE.
- 4. TRENCH, PROVIDE AND INSTALL UNDERGROUND ELECT. CONDUIT, PER LADWP CODE, FROM ELECT. P.O.C. TO THE OUTDOOR COMBINATION ELECTRICAL METER/IRRIGATION CONTROLLER PEDESTAL ENCLOSURE(S). CONTRACTOR SHALL PROVIDE AND INSTALL PULL ROPE FROM ELECTRICAL P.O.C. TO ELECTRICAL METER.
- MAKE ALL NECESSARY CONNECTIONS TO PROVIDE AN OPERATIONAL ELECTRICAL SYSTEM/AUTOMATIC IRRIGATION SYSTEM.
- ALL ELECTRICAL WORK, INCLUDING GROUNDING SYSTEM, SHALL BE DONE IN ACCORDANCE
 THE SPECIAL PROVISIONS AND ANY REQUIREMENTS SET FORTH BY LADWP
- CONTRACTOR SHALL REQUEST THE ENGINEER TO FORWARD THE LADWP UPON THE FINAL INSPECTION OF THE ELECTRICAL SERVICE.
- 8. ELECTRICAL SYSTEM/AUTOMATIC IRRIGATION TO BE LLY OF TIONAL BY THE BEGINNING OF THE PLANT ESTABLISHED D

LOS ANGELES DEPARTMENT OF WATER AND PC 3 WILL PROVIDE D INSTAL

- 1. P.O.C. AT EXISTING POWER P AS INDIC. ON P
- 2. INSTALL ELECTRICAL METER II LL RICAL ML JOX.
- 3. INSTALL NINECT ELECTI ALS (ICE (TO

IRRIGATION INSTA. TION TES:

- TRENCHING OP 1: CON. TO IAS AS A PTION TO INSTALL LATERAL IRRIGATION LINES UTILIZING TRENCHLESS IN INIQUE IN) WHERE POSSIBLE.
- ALL TING, NON RATIONAL WRIGATION EQUIPMENT SHALL BE REMOVED AND DISPOSED. VERIFY OPER AL STATU ITH PROJECT ENGINEER PRIOR TO REMOVAL.
- NIRACTU LL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AND SHALL NOTIFY THE ENGINEER OF A DISCREPANCIES BEFORE PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR TO VERIFY LOCATIONS OF ALL EXISTING TREES AND OTHER PLANTS IN THE AREAS OF WORK PRIOR TO START OF CONSTRUCTION.
- E INSTALL PVC SCHEDULE 40 CONDUIT UNDER EXISTING PAVING WHEREVER NECESSARY TO "RUN" CONTROL WIRES. INSTALL CONTROL WIRES A MINIMUM 24" BELOW FINISH GRADE AND 36" UNDER VEHICLE AD BOADMAY
- ALL VERTICAL CHANGES IN MAINLINE PIPE DIRECTION SHALL BE DONE WITH THE USE OF 45 DEGREE ELBOWS.
- LATERAL SUPPLY LINES FROM THE VALVE TO THE FIRST HEAD SHALL BE ONE SIZE LARGER THAN THE VALVE. UNLESS OTHERWISE NOTED.
- 8. THE AGENCY WILL APPLY FOR AND PAY ALL FEES FOR THE PROPOSED WATER METER(S). SEE PLANS FOR AVAILABLE WATER PRESSURE AT THE P.O.C. AND WATER PURVEYOR'S INFORMATION. NOTIFY THE ENGINEER IF THERE IS A DISCREPANCY WITH CONTRACTORS FINDING AND WHAT IS INDICATED ON THE PLANS.
- REPAIR ALL EXISTING MATERIALS DAMAGED OR EXPOSED BY NEW IRRIGATION INSTALLATION WORK OR BY ANY OTHER CONSTRUCTION WORK, MATCH EXISTING ADJACENT WORK IN TEXTURE AND COLOR.
- 10. ALL QUICK COUPLING VALVES SHALL BE INSTALLED IN LOCK LID VALVE BOXES. MARK ALL BOXES Q.C.V. WITH EPOXY PAINT.
- IRRIGATION HEADS SHALL BE PROPERLY POSITIONED TO ALLOW STANDARD OPERATION, RETRACTION, AND SHALL BE ADJUSTED SO THERE IS NO OVER-SPRAYING ONTO ADJACENT SIDEWALKS, PAVEMENT(S), AND ROADWAYS.

IRRIGATION INSTALLATION NOTES:

- IRRIGATION HEADS SHALL BE PROPERLY POSITIONED TO ALLOW STANDARD OPERATION, RETRACTION, AND SHALL BE ADJUSTED SO THERE IS NO OVER-SPRAYING ONTO ADJACENT SIDEWALKS, PAVEMENT(S) AND ROADWAYS.
- 12. CONTRACTOR SHALL MAKE ALL NECESSARY ADJUSTMENTS TO ENSURE THAT ALL COMPONENTS OF THE IRRIGATION SYSTEM PERFORM PROPERLY DURING CONSTRUCTION AND MAINTENANCE PERIODS.
- 13. CONTRACTOR SHALL PROVIDE AND INSTALL FLOW METER(S) AND MASTER CONTROL VALVE(S) FOR ALL PROPOSED AUTOMATIC IRRIGATION CONTROL SYSTEM(S) AS SHOWN ON PLANS. INSTALLATION SHALL BE PER DETAILS AND MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL BE RESPONSIBLE TO PROGRAM THE AUTOMATIC IRRIGATION CONTROLLER(S) SO THE SYSTEM SHALL BE FULLY OPERATION TO DETECT MAIN AND LATERAL LINE BREAKAGE.
- ADJUST LOCATION OF IRRIGATION HEADS AS NECESSARY TO MINIMIZE SPRAY INTERFERENCE AGAINST OBSTRUCTIONS (CONCRETE WALLS, TELEPHONE AND POWER POLES, TREES, ETC.).
- ADJUST ALL ADJUSTABLE ARC NOZZLES AS NECESSARY TO AVOID UNDER-SPRAY OF PLANTING AREAS AND OVER-SPRAY OF WALLS AND SIDEWALKS.
- 16. CONTRACTOR SHALL ADJUST POSITION OF ROTOR IRRIGATION HEADS IN FIELD, AS NECESSARY, TO MAINTAIN 10' MIN. DISTANCE FROM TRUNKS OF TREES.
- 7. FOLLOWING IRRIGATION HEAD INSTALLATION, ADJUST RADIUS THROW TO CONFORM TO SITE
- 18. INSTALL NEW ELECTRIC IRRIGATION CONTROLLERS IN OUTDOOR COMBINATION ELECTRICAL METER/IRRIGATION CONTROLLER ENCLOSURE WHERE SHOWN ON PLANS. MAKE ELECTRICAL CONNECTIONS AS NECESSARY TO PROVIDE AN OPERATIONAL ELECTRICAL AUTOMATIC IRRIGATION SYSTEMS. (SEE ELECTRICAL INSTALLATION NOTES THIS SHEET FOR ADDITIONAL INFORMATION.)
- 9. CONTRACTOR SHALL PROVIDE AND PAY FOR BACKFLOW DEVICE INSPECTIONS. INSPECTIONS TO BE PERFORMED BY AN INSPECTOR CERTIFIED BY LOS ANGELES COUNTY DEPARTMENT OF HEALTH SERVICES (LACDHS). THE INSPECTION CERTIFICATION SHALL BE COMPLETED AND SUBMITTED TO THE WATER PURVEYOR, AND A COPY SHALL BE SUBMITTED TO THE ENGINEER AND LACDHS.
- CONTRACTOR SHALL VERIFY THE FIELD CONDITIONS AND INSTALL ADDITIONAL IN-LINE CHECK VALVES
 WHEREVER NECESSARY TO PREVENT LOW-HEAD DRAINAGE.
- 21. ALL TREES ARE TO BE WATERED BY A SEPARATE BUBBLER SYSTEM. SEE IRRIGATION DETAIL FOR BURBLER INSTALLATION.
- INSTALL X-OVER SLEEVES (CLASS 315 PVC UNLESS NOTED OTHERWISE) AT INTERSECTIONS, UNDER PAVEMENTS, AND WHERE SHOWN ON PLANS. ALL SLEEVES SHALL EXTEND 6" INTO PLANTING AREAS AT BOTH ENDS.
- SLEEVES SHALL BE INSTALLED WHERE SHOWN (APPROXIMATE) ON PLANS. CONTRACTOR SHALL
 COORDINATE THE INSTALLATION OF THE SLEEVES PRIOR TO PAVING/PATH/ETC. BEING INSTALLED.
- "BORE" UNDER EXISTING PAVING WHEREVER POSSIBLE. SAWCUT EXISTING PAVING WHERE NECESSARY
 AS APPROVED TO INSTALL PIPING/SLEEVE. FOR TRENCH REPAIR INFORMATION (INSERT TRENCHING
 REPAIR DETAIL IN DETAIL SHEET). REFER TO DETAIL E, SHEET LS-3.13.
- 25. CONTRACTOR SHALL ADJUST EXACT LOCATIONS OF IRRIGATION PIPES AND SLEEVE TO AVOID CATCH BASINS AND OTHER SITE AMENITIES.
- 26. VERIFY THE EXISTING GROUNDING SYSTEM. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
- ALL HEADS WITH CHECK VALVES AND PRESSURE REGULATION DEVICES IN POP-UP STEM SHALL BE CONNECTED THOUGH BOTTOM INLET AND NOT SIDE INLET.

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

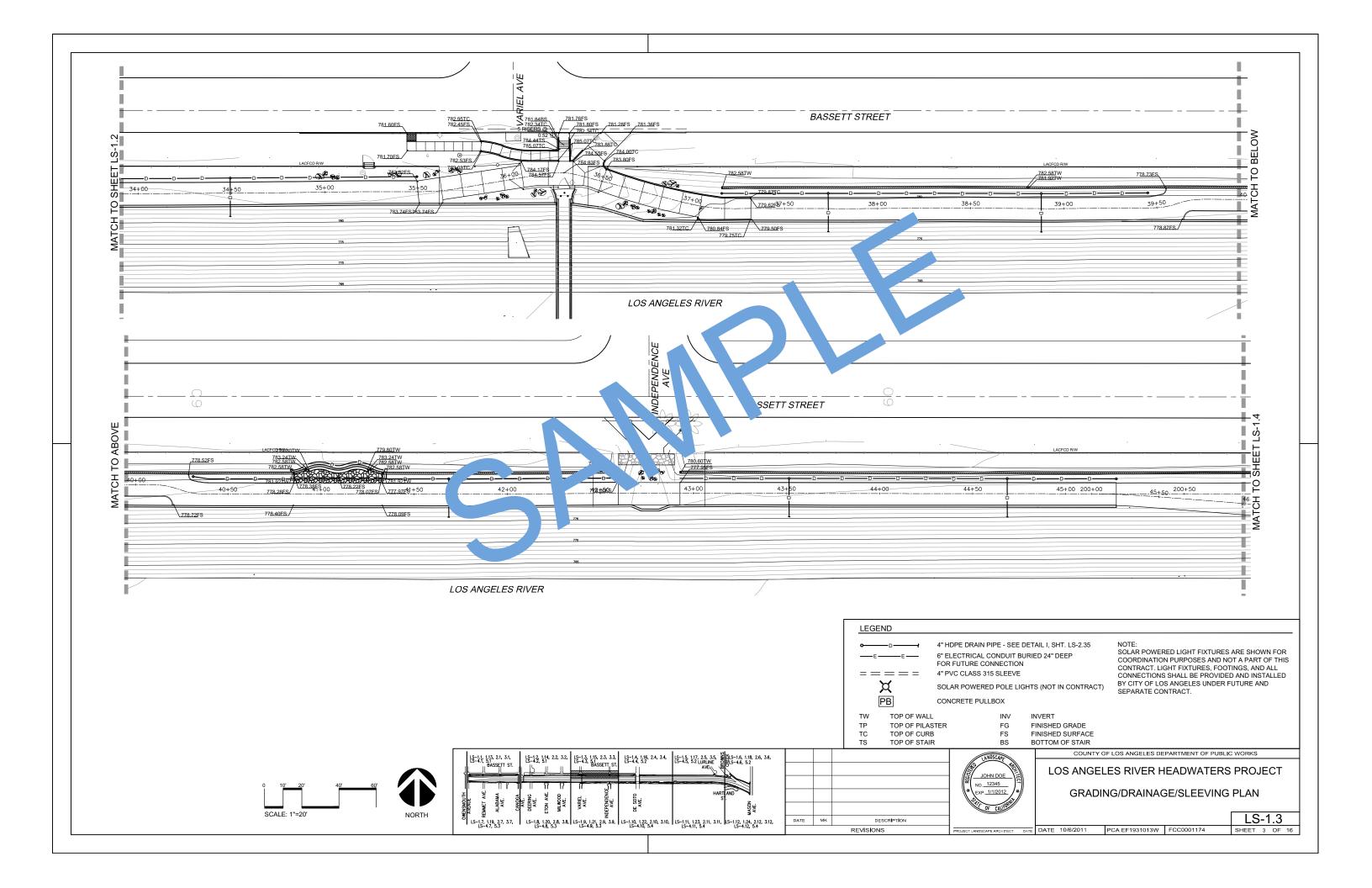
LOS ANGELES RIVER HEADWATERS PROJECT

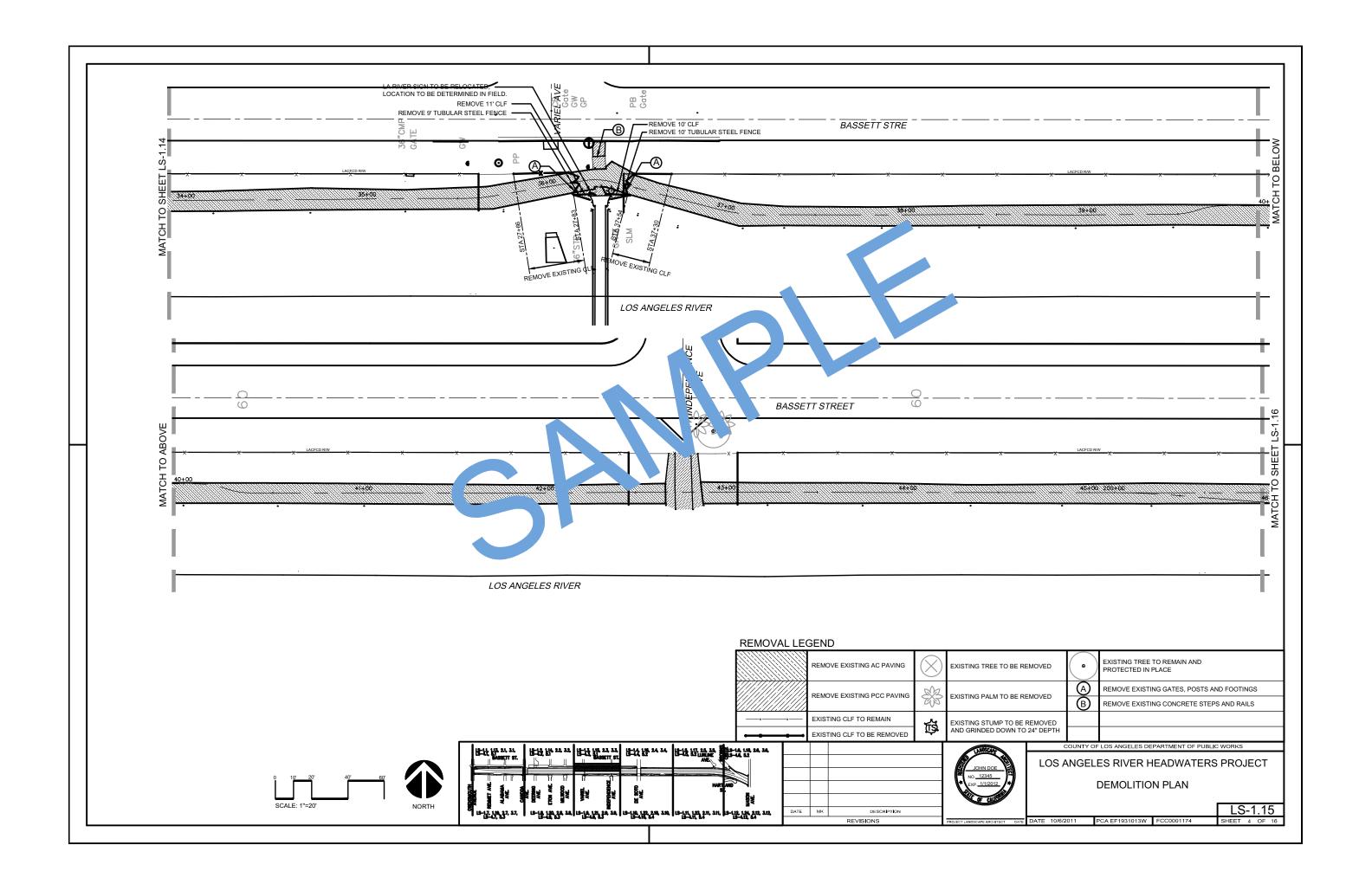
GENERAL NOTES

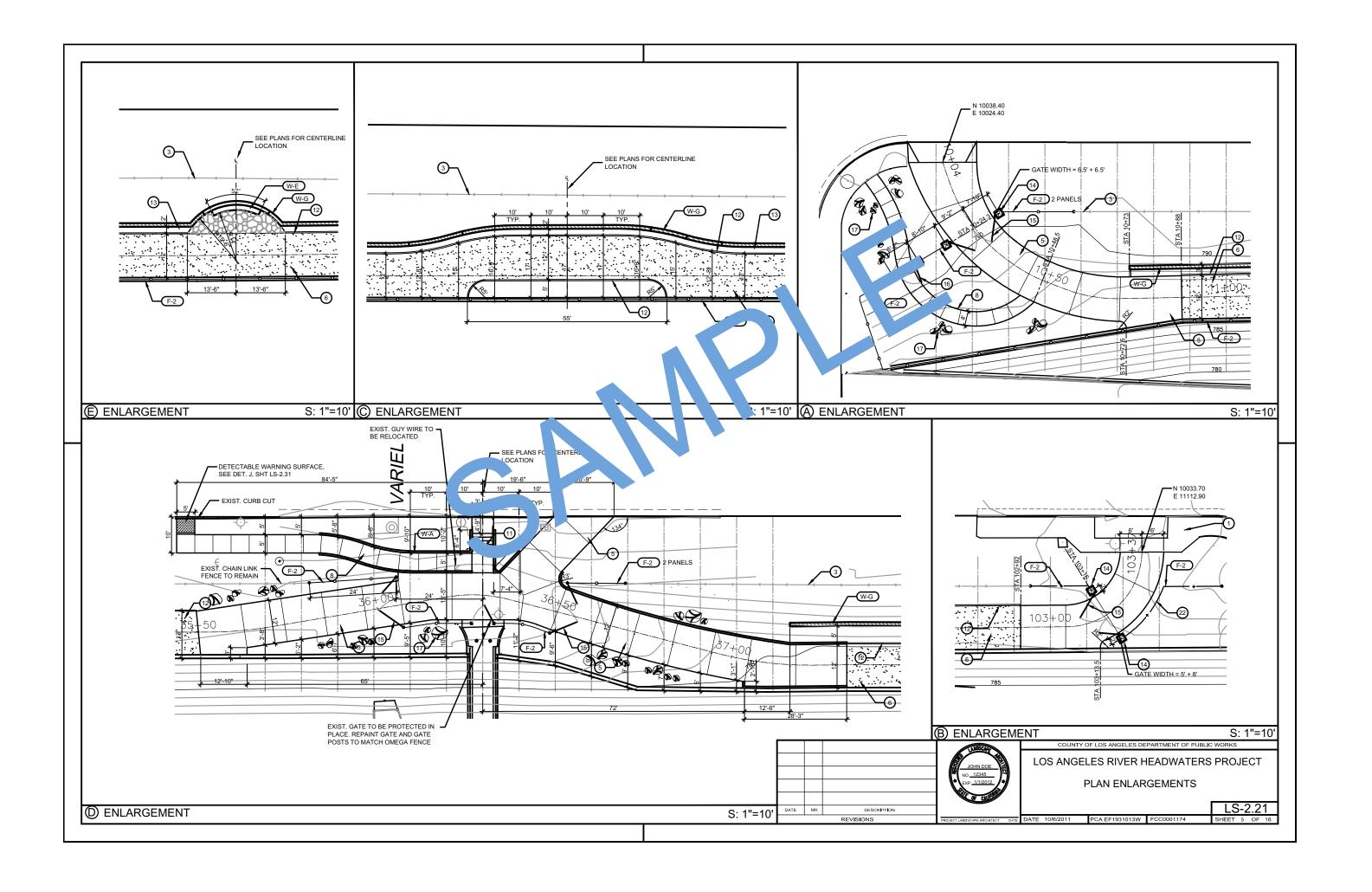
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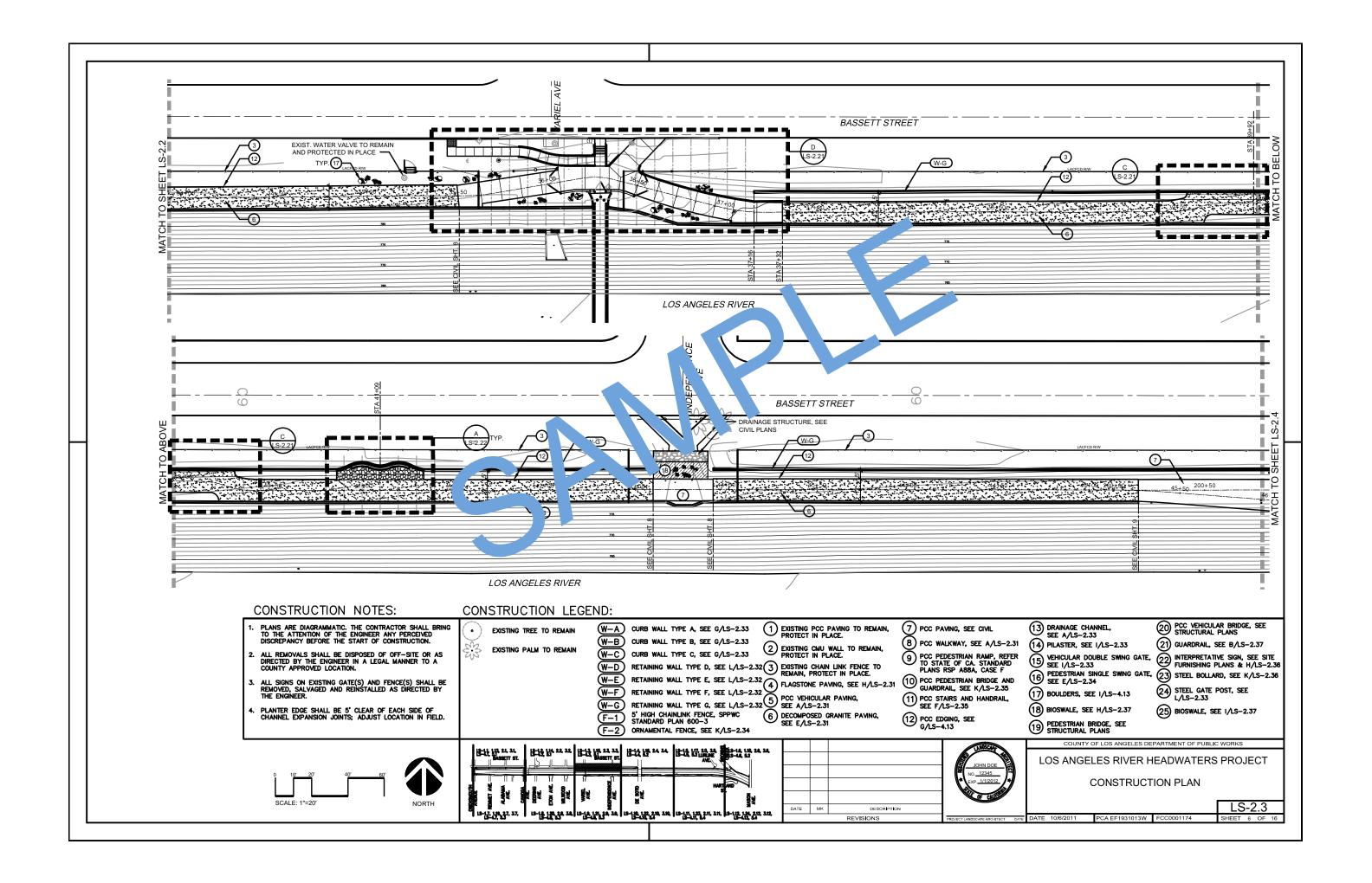
REVISIONS

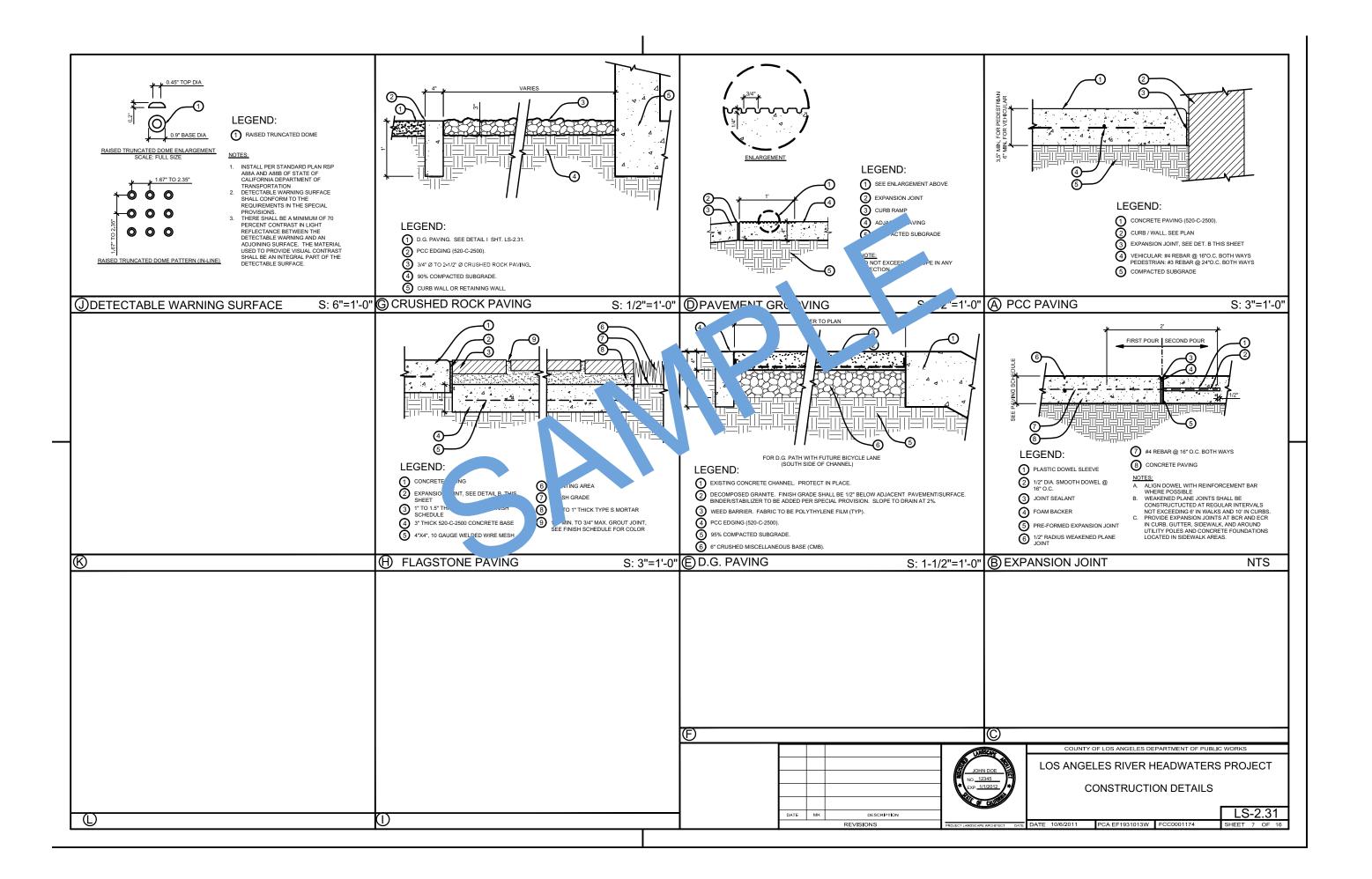
PROJECT LANDICAPE ARCHITECT DATE DATE 10/6/2011 PCA EF1931013W FCC0001174 SHEET 2 OF 16

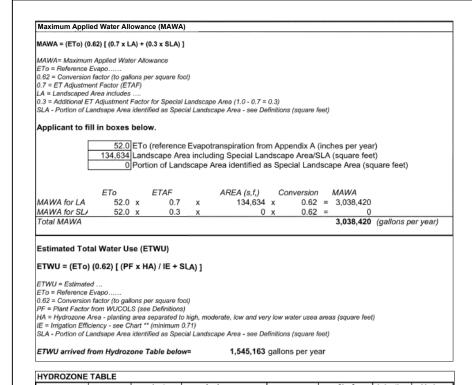












		plant	hydrozone		% of	irrigation	Hydro-
	plant water	factor (PF)	area (HA)	PFxHA	landscape	efficiency	zone
hydrozone	use type	(see table B)	(square ft.)	(square ft.)	area (LA)	ΙE	ETWU
A1	low water	0.2	1,250	250	0.93%	0.71	11,352
A2	low water	0.2	891	178	0.66%	0.71	8,092
A3	low water	0.2	1,437	287	1.07%	0.71	13,050
A4	mod water	0.6	600	360	0.45%	0.90	12,896
A5	low water	0.2	680	136	0.51%	0.71	6,176
A6	low water	0.2	2,170	434	1.61%	0.71	19,707
A7	low water	0.3	896	269	0.67%	0.80	10,833
A8	low water	0.2	1,291	258	0.96%	0.71	11,724
F12	low water	0.2		325	1.21%	0.71	14,767
F12	low water	0.2	1				
F13	low water	0.2	1,2	251	0.93%	0.71	11,388
		0.0					40.044
F14	mod water	0.6	900	540	0.67%	0.90	
F15	low water	0.2	823	165	0.61%	0.71	7,474
F15 F16	low water low water	0.2 0.2	823 981	165 196	0.61% 0.73%	0.71 0.80	7,474 7,907
F15 F16 F17	low water low water low water	0.2 0.2 0.2	823 981 1,149	165 196 230	0.61% 0.73% 0.85%	0.71 0.80 0.71	7,474 7,907 10,435
F15 F16 F17 F18	low water low water low water mod water	0.2 0.2 0.2 0.6	823 981 1,149 475	165 196 230 285	0.61% 0.73% 0.85% 0.35%	0.71 0.80 0.71 0.90	7,474 7,907 10,435 10,209
F15 F16 F17 F18 F19	low water low water low water mod water low water	0.2 0.2 0.2 0.6 0.2	823 981 1,149 475 1,079	165 196 230 285 216	0.61% 0.73% 0.85% 0.35% 0.80%	0.71 0.80 0.71 0.90 0.71	7,474 7,907 10,435 10,209 9,799
F15 F16 F17 F18 F19 F20	low water low water low water mod water low water low water	0.2 0.2 0.2 0.6 0.2	823 981 1,149 475 1,079 1,076	165 196 230 285 216 215	0.61% 0.73% 0.85% 0.35% 0.80% 0.80%	0.71 0.80 0.71 0.90 0.71 0.71	7,474 7,907 10,435 10,209 9,799 9,772
F15 F16 F17 F18 F19 F20 F21	low water low water low water mod water low water	0.2 0.2 0.2 0.6 0.2 0.2	823 981 1,149 475 1,079 1,076	165 196 230 285 216 215 287	0.61% 0.73% 0.85% 0.35% 0.80% 0.80% 1.07%	0.71 0.80 0.71 0.90 0.71 0.71	7,474 7,907 10,435 10,209 9,799 9,772 13,023
F15 F16 F17 F18 F19 F20	low water low water low water mod water low water low water	0.2 0.2 0.2 0.6 0.2	823 981 1,149 475 1,079 1,076	165 196 230 285 216 215	0.61% 0.73% 0.85% 0.35% 0.80% 0.80% 1.07% 0.50%	0.71 0.80 0.71 0.90 0.71 0.71 0.71	19,344 7,474 7,907 10,435 10,209 9,799 9,772 13,023 5,400
F15 F16 F17 F18 F19 F20 F21	low water low water low water mod water low water low water low water	0.2 0.2 0.2 0.6 0.2 0.2	823 981 1,149 475 1,079 1,076	165 196 230 285 216 215 287	0.61% 0.73% 0.85% 0.35% 0.80% 0.80% 1.07% 0.50%	0.71 0.80 0.71 0.90 0.71 0.71	7,474 7,907 10,435 10,209 9,799 9,772 13,023

IRRIGATION SCHEDULE (Peak Summer Schedule)

POC 'A' STATIC PRESSURE: 114 PSI VALVE: A6 GP	M: 41.26
DESCRIPTION	PSI LOSS
REDUCED PRESSURE 1 1/2" BACKFLOW 1 1/2" WATER METER 1 1/2" MASTER VALVE 1 1/2" FLOW METER 1 1/2" REMOTE CONTROL VALVE 2" MAINLINE (267 LF) MAINLINE FITTINGS @ 10% LATERAL LINE (96 LF) LATERAL FITTINGS @ 23%	12.0 3 2.4 .5 3.5 3.39 .339 3.86 .88
COMPONENT LOSS TOTAL REQUIRED AT HEAD COMPONENT LOSSES PLUS HEAD LOSS 10% SAFETY FACTOR TOTAL PRESSURE REQUIRED	29.87 30 59.87 6 65.87
STATIC PRESSURE PRESSURE LOSS/GAIN FROM ELEVATION CHANGE TOTAL AVAILABLE PRESSURE RESIDUAL PRESSURE	114 0 114 48.13
TOTAL PRESSURE ABOVE THE MINIMUM REQUIRED PRESSURE REGULATOR NEEDED	

Pressure Loss Calculation

Moderate Water Using Plants			0.5	Carri	we
Low Water Using Plants			0.2	can be	'e
Very Low water Using Plants			0.1	below 0.	
* species include tall fescue, ryegn		entgrass .	*110	ky bluegras	
** sr "de bermudagrass, z		grass, st. aus		rass	
Table B - IE (Irrigation Efficien	14				
Pop-up spray heads	Ι	0.71			
Rotor heads	Τ	0.75			
Micro	П	0.75			
	Γ	0.8			
Drip emitters	Г	0.85			

Table A - PF (Plant Factor) Cool Season Turf

IRRIGATION LEGEND

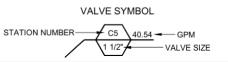
SYMBOL Q H F V	DESCRIPTION	MANUFACTURER	MODEL	Q	н	GPM F	VAN's	RAD.	PSI	DET / SHT #
	12" POP-UP SHRUB SPRAY	RAINBIRD OR APPROVED EQUAL	1812-SAM-PRS-MPR5	0.1	0.2	0.41		5'	30	C / LS-3.13
△ △ ▲ 	12" POP-UP SHRUB SPRAY	RAINBIRD OR APPROVED EQUAL	1812-SAM-PRS-MPR8	0.26	0.52	1.05	.72 - 1.7	8'	30	C / LS-3.13
? • • •	12" POP-UP SHRUB SPRAY	RAINBIRD OR APPROVED EQUAL	1812-SAM-PRS-MPR10	0.39	0.79	1.58	.75 - 2.6	10'	30	C / LS-3.13
	12" POP-UP SHRUB SPRAY	RAINBIRD OR APPROVED EQUAL	1812-SAM-PRS-MPR12	0.65	1.3	2.60	.59 - 2.36	12'	30	C / LS-3.13
⊕⊖○•	12" POP-UP SHRUB SPRAY	RAINBIRD OR APPROVED EQUAL	1812-SAM-PRS-MPR15	0.92	1.85	3.7	.92 - 3.7	15'	30	C / LS-3.13
LS RS	12" POP-UP SHRUB SPRAY	RAINBIRD OR APPROVED EQUAL	1812-SAM-PRS-15 LC/RC			.61		4'x15'	30	C / LS-3.13
88	12" POP-UP SHRUB SPRAY	RAINBIRD OR APPROVED EQUAL	1812-SAM-PRS-15SST			1.21		4'x30'	30	C / LS-3.13
٥	12" POP-UP STREAM BUBBLER	NNBIRD ROVED EQUAL	1812-SAM-PRS-MPR5CST-	В		.5		5'	30	C / LS-3.13
•	SHRUB BUBBLER ON RISER	RAINBIRD OR APPROVED EQUAL	1401			.25		1-3'	30	H / LS-3.13
*	TREE ROOT WATERING S	RAINBIRD OR APPROVED EQUAL	RWS-B-1402			.5		1-3'	30	B / LS-3.13
•	REMOTE CONTROL VALVE	P .D EQUAL	PESB SERIES WITH PRS-I	DIAL (SI	ZE PER	PLAN)				D / LS-3.13
•	QUICK COUPLER	OR APPROVED EQUAL	33 DLRC ¾" WITH LOCKIN	G COVE	ĒR					A / LS-3.13
)(FLU. ALVE	N.A.	SEE SPECIFICATIONS							J / LS-3.14
	BACKF 'PREVENTER	OR APP	825Y 1 1/2" W/ WYE FILTE	R & STE	EL ENC	LOSUR	E			I/LS-3.13
	TE VAL	ROVED EQUAL	T-133-K (LINE SIZE)							G / LS-3.13
0	STER VAL	GRISWOLD OR APPROVED EQUAL	2260 1 ½" NORMALLY OPE	N						F / LS-3.13
F	_OW METER	CALSENSE OR APPROVED EQUAL	FM-1 1/2" FLOW METER							F / LS-3.13
	PRESSURE REGL. JR	WILKINS OR APPROVED EQUAL	500 1 1/2" REGULATOR							I / LS-3.13
	ELECTRIC POINT OF CONNECTION	N.A.	PER POWER COMPANY (L	ADWP)						N.A.
<u>L</u>	RAIN SENSOR	RAINBIRD OR APPROVED EQUAL	RSD-CEX (POLE MOUNTE	D)						N / LS-3.14
E#	ELECTRIC METER AND ENCLOSURE	N.A.	METER PER POWER COM	PANY (LADWP), VIT M	PS-A16-42K EN	NCLOSURE		1 / E-2.1
C#	CONTROLLER AND ENCLOSURE	RAINBIRD OR APPROVED EQUAL	ESP-LXME-F, ETM-LXM (ТО ВЕ І	HOUSE	O IN ELE	CTRICAL PED	ESTAL)		1 / E-2.1
W#	WATER METER	N.A.	PER WATER COMPANY (L	ADWP)						N.A.
	LATERAL LINE	WESTERN LASCO OR APPROVED EQUAL	SCHEDULE 40 PVC - SIZE	PER PL	.AN					E / LS-3.13
	MAIN LINE	WESTERN LASCO OR APPROVED EQUAL	SEE SPECIFICATIONS - SI	ZE PER	PLAN					E / LS-3.13
===	PIPE SLEEVE / CONDUIT IRRIGATION LINES & CONTROL WIRES	WESTERN LASCO OR APPROVED EQUAL	SEE SPECIFICATIONS/SLI	EEVING	CHART					E / LS-3.13
PB	PULL BOX	N.A.	SEE SPECIFICATIONS							L / LS-3.14

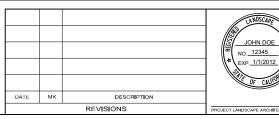
IRRIGATION NOTES:

- WATER SERVICE INFORMATION IS AVAILABLE THROUGH LOS ANGELES DEPARTMENT OF WATER AND POWER. CONTACT AMGAD FARAG AT (213) 367-0328
- SEE SHEET LS-3.13 & LS-3.14 FOR IRRIGATION DETAILS.
- SEE SHEET LS-0.2 FOR IRRIGATION AND ELECTRICAL INSTALLATION NOTES.
- WORK SHOWN ON THE IRRIGATION PLANS IS DIAGRAMMATIC. LOCATE NEW IRRIGATION LINES, VALVES AND EQUIPMENT IN PLANTING AREAS. AVOID LOCATING LINES WHERE MAJOR TREES ARE PROPOSED.
- FINAL LOCATION OF THE BACKFLOW PREVENTOR, POC EQUIPMENT, AND CONTROLLER SHALL BE APPROVED IN FIELD BY COUNTY OF LOS ANGELES ENGINEER/REPRESENTATIVE.
- PRECISE LOCATION OF MAINLINE SHALL BE APPROVED IN FIELD BY COUNTY OF LOS ANGELES ENGINEER/REPRESENTATIVE.
- VALVE BOX'S SHALL BE INSTALLED WITHIN 15' FROM EDGE OF CHANNEL WALL, CONTRACTOR TO COORDINATE FINAL LOCATION WITH COUNTY OF LOS ANGELES ENGINEER/REPRESENTATIVE
- ELECTRICAL PEDESTAL SHALL BE INSTALLED BY CONTRACTOR PER THE LADWP SPECIFICATIONS. IRRIGATION CONTROLLER SHALL BE HOUSED IN
- ELECTRICAL SERVICE PEDESTAL.
- PROVIDE SEPARATE WIRE COLORS FOR EACH IRRIGATION VALVE.
- 10. PIPE SLEEVE SHALL ALLOW FOR IRRIGATION PIPING AND RELATED COUPLINGS TO EASILY SLIDE THROUGH SLEEVING. EXTEND NEW SLEEVES 18 INCHES BEYOND EDGES OF PAVING.

JOHN DOE

- 11. THE CONTRACTOR SHALL ALLOW FOR MINOR ADJUSTMENTS TO BUBBLER HEADS WITH NO CHARGE TO THE COUNTY OF LOS ANGELES.
- 12. PROVIDE TWO EXTRA CONTROL WIRES AT THE ENDS OF EACH ZONE FOR FUTURE EXPANSION.
- 13. PAINT BACKFLOW PREVENTOR GREEN FOR THEFT PREVENTION. COORDINATE COLOR WITH COUNTY ENGINEER/REPRESENTATIVE.



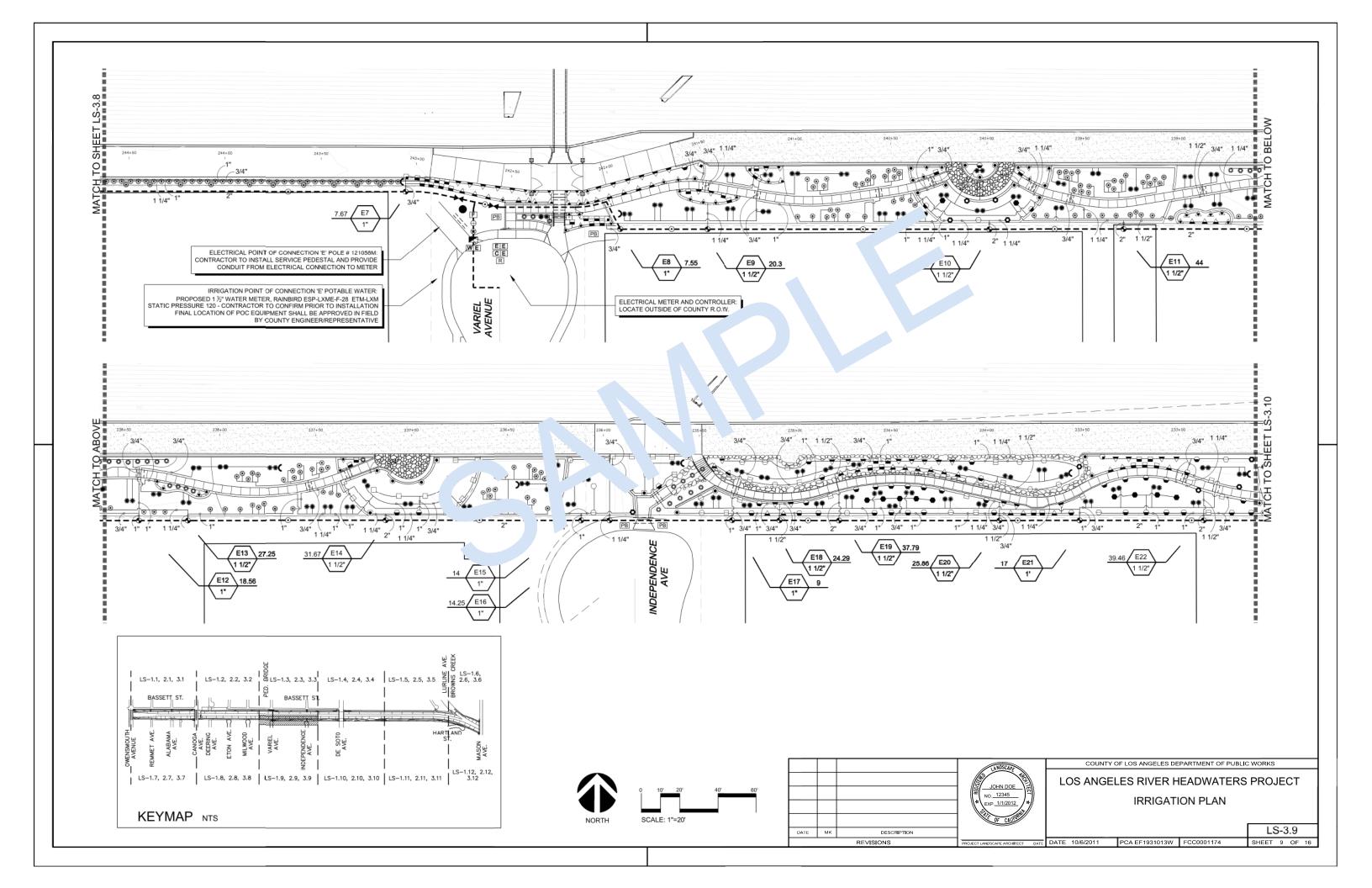


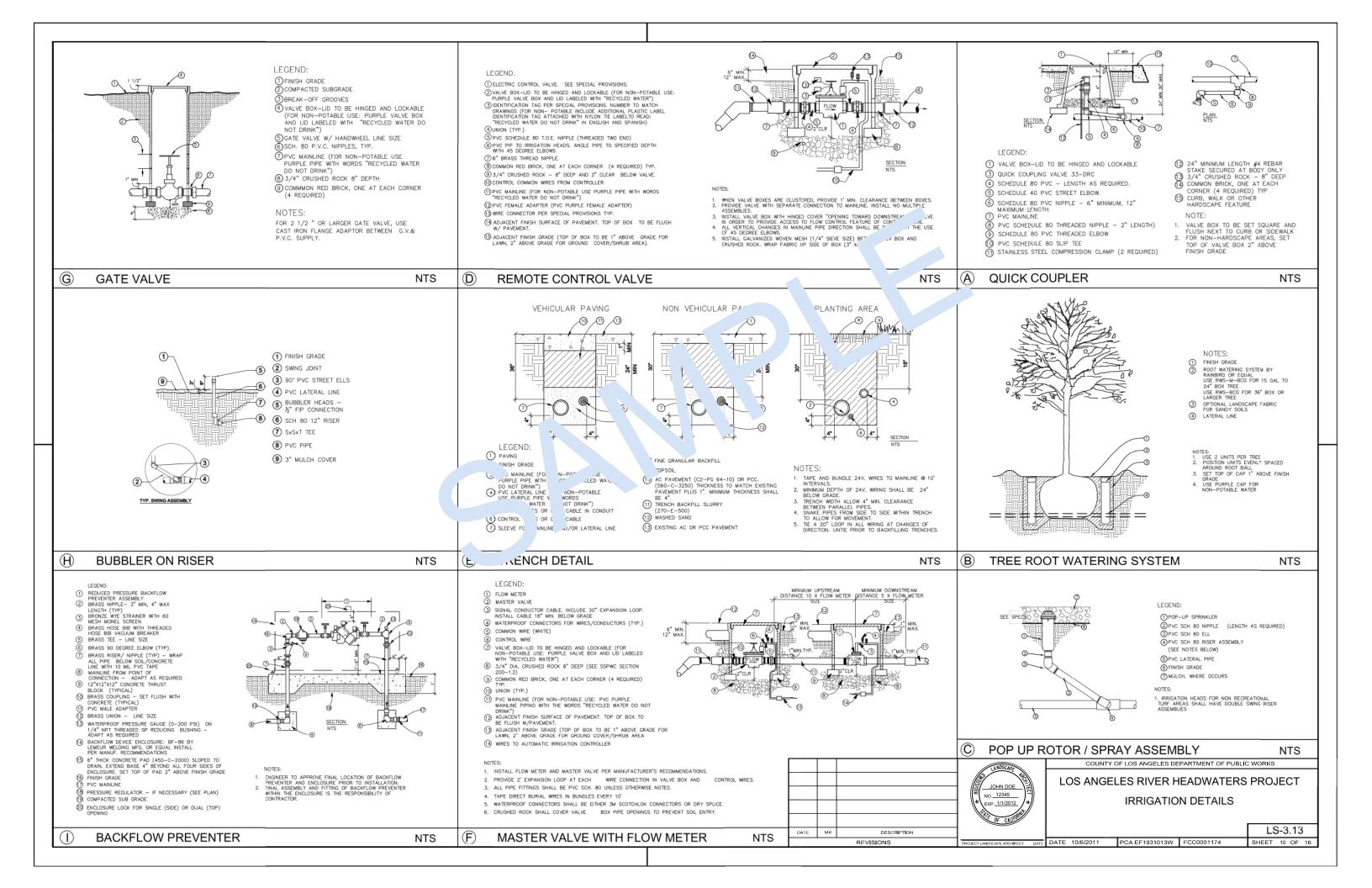
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS LOS ANGELES RIVER HEADWATERS PROJECT

IRRIGATION LEGEND AND NOTES

LS-3.0 DATE DATE 10/6/2011 PCA EF1931013W FCC0001174 SHEET 8 OF 16

	NDSCAPE ARE	A:	184,950	sq.ft.										
To: (ente	r area)	mar.	april	may	June	july	aug.	sept.	oct.	nov.	dec.	annual	Ĺ	
2.0	2.7	3.5	4.6	5.5	5.9	7.3	6.7	5.3	3.9	2.6	2.0	52.0		
valve	valve size	FOR SUMMER (flow (GPM)	irr. effcy. (IE)	irr.	(use colum area (sq.ft.)	plant type	precip rate (in/min.)	project) plant factor (PF)	daily runtime (min.)	nos. of cycles per day	individ. runtimes (min.)	frequency per month	monthly runtime (min.)	tota ETW
A1	17	10	0.71	spray	884	shrub	1.80	0.2	9	1	9	8	68.5	112
A2	1*	7	0.90	subsurface	56	V	0.25	0.2	49	6	8	8	389.3	- 5
A3	1"	27	0.71	spray	1453	\vdash	1.80	0.2	9	1	9	8	68.5	185
						\wedge	\vee							
A3	1"	27	0.71	sprav	1453	shrub	1	0.2	9	1	9	8	68.5	185
A3 A4	1"	27 3		spray subsurface	1453	shrub tree	65	0.2	9	1 6	9 8	8		
			0.90				5 0.25			1 6 6			68.5 389.3 389.3	10
A4	1"	3	0.90	subsurface	108	tree	0.25 0.25	0.2	49		8	8	389.3	10
A4 A5	1"	3 2	0.90	subsurface subsurface subsurface	108 72	tree tree		0.2	49 49	6	8	8	389.3 389.3	1852 108 72 72 484
A4 A5 A6	1" 1" 1"	3 2 2	0.90 0.90 0.90 0.71	subsurface subsurface	108 72 72	tree tree	0.25	0.2 0.2 0.2	49 49 49	6	8 8 8	8 8 8	389.3 389.3 389.3	10 7: 7:





SYMBO		REVIATION	BOTANICAL/COMMON NAME	SIZE	SETBACK	PLANT FACTOR	SPACING	SYMBO		ABBREVIATION	BOTANICAL/COMMON NAME	SIZE	SET
SMALL SHI		BAC PIL	BACCHARIS PILULARIS PILULARIS [HYBRID?] (PROSTRATE COYOTE BUSH)	1 GAL	3'	L/M	4'	7	$\overline{\ }$		PLATANUS RACEMOSA	0411 = = :	_
7 7 7 7 (ES FIL	LESSINGIA FILAGINIFOLIA (CALIFORNIA ASTER)	1 GAL	2'	VL	2'		کر۔	PLA RAC	CALIFORNIA SYCAMORE	24" BOX	╙.
<u> </u>	_	ACH MIL	ACHILLEA MILLEFOLIUM 'PAPRIKA' (YARROW)	1 GAL	1.5'	M/L	2'	\[\frac{\gamma^{\chi}}{2}	`)	QUE AGR	QUERCUS AGRIFOLIA COAST LIVE OAK	24" BOX	
	Ð 1v	VA HAY	IVA HAYESIANA (HAYES IVA)	5 GAL	3'	M/L	4'		بحر س				_
		ROS CAL	ROSA CALIFORNICA (CALIFORNIA WILD ROSE)	1 GAL	3'	L	4'		/	UMB CAL	UMBELLULARIA CALIFORNICA CALIFORNIA BAY LAUREL	24" BOX	,
17-2-4	_	SOL CAL	SOLIDAGO CALIFORNICA (CALIFORNIA GOLDENROD)	1 GAL	1'	L/M	18"		٧		POPULUS FREMONTII	24" 50"	_
* **** ***** *****	Ø =	PI CAN	EPILOBIUM CANUM LATIFOLIUM (CALIFORNIA FUSCHIA)	1 GAL		VL/L	2'	\$ A	کمی	POP FRE	FREMONT COTTONWOOD	24" BOX	,
	B) RI	RIB AUR	RIBES AUREUM GRACILLIMUM (GOLDEN CURRANT)		3'	VL/L	4'	$ \langle \cdot $	`)	FRA VEL	FRAXINUS VELUTINA VAR. CORIACEA VELVET ASH	24" BOX	۱ ۱
	3 s	STA BUL	STACHYS BULLATA (PINK HEDGENETTLE)	1 GA	2'		18"		~				_
	D =	RI FAC	ERIOGONUM FASCICULATI M FASCICULATUM (CALIFORNIA BUCKWHE	5 GAL		VL/L	4')	CHI TAS	x CHITALPA TASHKENTENSIS CHITALPA	24" BOX	,
6	∂ □	NC CAL	ENCELIA CALIFORNICA (CALIFODY: CELIA)	1 GAL		L			$ egthinspace{1.5em} otag$		CERCIS OCCIDENTALIS	04855	_
) is	SO ARB	ARBC DERPOD)	5 GAL	4'		4'		/	CER OCC	WESTERN REDBUD	24" BOX	<u>`</u>
	S) s	SAL M	SALVIA MELLIFERA (BLACK SAGE)	5 GAI	4'	VL	5'	$ \cdot $) [SAL LAE	SALIX LAEVIGATA RED WILLOW	24" BOX	1
	Se	SOL XAN	OLANUM Y JAPA" JHTSHADE)	gAL	2'	VL/L	2'				NED WILLOW		<u> </u>
	6	LON	LONGIFLORUS (L MONKEY FLOWER)	1 GAL	2'	L	2'	0)	JUG CAL	JUGLANS CALIFORNICA CALIFORNIA WALNUT	24" BOX	,
	A s	SA.	SAL JANA (WHI SE)	5 GAL	3'	VL	4'		,		SAMBLICUS MEVICANA		_
	9 s	SAN CH	SANTOL HAMAECYPARISSUS (LAVENDER COTTON)	1 GAL	2'	M/L	2'		ر	SAM MEX	SAMBUCUS MEXICANA MEXICAN ELDERBERRY	24" BOX	L
) 1	EY TRI	YMUS TRITICOIDES 'GRAY DAWN' (CREEPING WILD RYE)	1 GAL	2'	М	3'	(•)		EXISTING TREE TO REMAIN		_
6	9	UC WHI	YUCCA WHIPPLEI (OUR LORD'S CANDLE)	15 GAL	4'	VL	5'		/				<u>—</u>
	D r	OT SCO	LOTUS SCOPARIUS (DEERWEED)	1 GAL	2'	VL	2'	50	3		EXISTING PALM TO REMAIN		1
	М	MUH RIG	MUHLENBERGIA RIGENS (DEERGRASS)	1 GAL	3'	L	3'	LARGE SH	HRUBS				_
		IYO PAR	MYOPORUM PARVIFOLIUM (PROSTRATE MYOPORUM)	1 GAL	3'	М	4'	8	_	HET ARB	HETEROMELES ARBUTIFOLIA TOYON	15 GAL	6
BORDER N			INVESTIGATIVE AND VENEZIA						_	RHU INT	RHUS INTEGRIFOLIA LEMONADEBERRY	15 GAL	6
		IYP CAL	HYPERICUM CALYCINUM (AARON'S BEARD)	4" POT	3'	М	3'		_	PRU ILI	PRUNUS ILICIFOLIA HOLLYLEAF CHERRY	15 GAL	<u> </u>
INSIDE SW	····	:	[45% BY AREA, APPROX. 9 PLANTS PER 100 S.F.]	1 GAL	2'	L/M	2'	VINES		RHA CAL	RHAMNUS CALIFORNICA CALIFORNIA COFFEEBERRY	15 GAL	_
			JUNCUS PATENS (RUSH) [10% BY AREA, APPROX. 5 PLANTS PER 100 S.F.]	1 GAL	1'	L/M	18"	→ VINES		CAL MAC	CALYSTEGIA MACROSTEGIA SSP. ARIDA FINGER-LEAF MORNING GLORY	5 GAL	
			MELICA IMPERFECTA (COAST RANGE MELIC) [25% BY AREA, APPROX. 5 PLANTS PER 100 S.F.] NASSELLA PULCHRA (PURPLE NEEDLE GRASS)	1 GAL	1'	VL/L	18"	l			CLEMATIS LIGUSTICIFOLIA	5 GAL	<u> </u>
			[20% BY AREA, APPROX. 20 PLANTS PER 100 S.F.]	1 GAL	1'	VL/L	9"		\dashv	CLE LIG	VIRGIN'S BOWER VITIS GIRDIANA		Г
MULCH:	*****		SISYRINCHIUM BELLUM (BLUE-EYED GRASS)		•			▎└◇	•	VIT GIR	VITIS GIRDIANA DESERT GRAPE	5 GAL	
			CRUSHED ROCK MULCH - MIDWAY GREEN SOURCE: SOUTHWEST BOULDER & STONE OR AGENCY APPROVED EQUAL	3/4"-1-1/2" DIA.	N/A	NA		* PLANT CENTER			RM EDGE OF ADJACENT WALK, PAVEM	ENT HARI)SC
			CRUSHED ROCK MULCH - CALIFORNIA GOLD SOURCE: SOUTHWEST BOULDER & STONE OR AGENCY APPROVED EQUAL	1-1/2"-3" DI	A. N/A	NA				•			
<u></u>	ALUMIN	IUM EDGING	S. SEE DETAIL G, SHT. LS-4.13	GENII				-					
			QUANTITY 50 BAC 1 GAL PIL	- GENUS	•								
		CONT		- SPECIE	S								
								LANDSCA		\Box	COUNTY OF LOS ANGELES DEPAI		
							\dashv	JOHN D			LOS ANGELES RIVER HE	ADWA	TE
								NO. 12345 EXP. 1/1/20			PLANTING LE	EGENE)

SYMBOL	ABBREVIATION	BOTANICAL/COMMON NAME	SIZE	SETBACK*	PLANT FACTOR	SPACI
TREES			_			_
(\cdot)	PLA RAC	PLATANUS RACEMOSA CALIFORNIA SYCAMORE	24" BOX	6'	М	PER PLAN
\odot	QUE AGR	QUERCUS AGRIFOLIA COAST LIVE OAK	24" BOX	8'	VL/L	PER PLAN
	UMB CAL	UMBELLULARIA CALIFORNICA CALIFORNIA BAY LAUREL	24" BOX	6'	М	PER PLAN
	POP FRE	POPULUS FREMONTII FREMONT COTTONWOOD	24" BOX	8'	M/H	PER PLAN
\bigcirc	FRA VEL	FRAXINUS VELUTINA VAR. CORIACEA VELVET ASH	24" BOX	6'	M/H	PER PLAN
(<u>O</u>	CHITAS	x CHITALPA TASHKENTENSIS CHITALPA	24" BOX	6'	M/L	PER PLAN
\odot	CER OCC	CERCIS OCCIDENTALIS WESTERN REDBUD	24" BOX	6'	M/L	PER PLAN
0	SAL LAE	SALIX LAEVIGATA RED WILLOW	24" BOX	6'	M/H	PER PLAN
0	JUG CAL	JUGLANS CALIFORNICA CALIFORNIA WALNUT	24" BOX	6'	VL	PER PLAN
\odot	SAM MEX	SAMBUCUS MEXICANA MEXICAN ELDERBERRY	24" BOX	6'	VL/L	PER PLAN
•		EXISTING TREE TO REMAIN				
£13		EXISTING PALM TO REMAIN				
ARGE SHRUB	S					
\otimes	HET ARB	HETEROMELES ARBUTIFOLIA TOYON	15 GAL	6'	L	7'
•	RHU INT	RHUS INTEGRIFOLIA LEMONADEBERRY	15 GAL	6'	VL/L	7'
0	PRU ILI	PRUNUS ILICIFOLIA HOLLYLEAF CHERRY	15 GAL	4'	VL/L	6'
0	RHA CAL	RHAMNUS CALIFORNICA CALIFORNIA COFFEEBERRY	15 GAL	6'	L	6'
VINES			1			_
Φ	CAL MAC	CALYSTEGIA MACROSTEGIA SSP. ARIDA FINGER-LEAF MORNING GLORY	5 GAL	1'	VL/M	15
*	CLE LIG	CLEMATIS LIGUSTICIFOLIA VIRGIN'S BOWER	5 GAL	2'	L/M	15
\$	VIT GIR	VITIS GIRDIANA DESERT GRAPE	5 GAL	2'	М	15

, PAVEMENT HARDSCAPE ELEMENT TO

ES DEPARTMENT OF PUBLIC WORKS

R HEADWATERS PROJECT NG LEGEND

LS-4.0 SHEET 11 OF 16

