CONSTRUCTION NOTES:

A. WRITTEN SPECIFICATIONS ARE A PART OF THESE CONSTRUCTION DOCUMENTS. DRAWINGS DO NOT CONTAIN ALL INFORMATION NECESSARY FOR CONSTRUCTION.

B. VERIFY LIMITS OF WORK, PROPERTY LINES AND LOT LINES BEFORE STARTING WORK. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO OFF-SITE PROPERTY.

C. VERIFY LOCATIONS OF UNDERGROUND UTILITIES, PIPES AND STRUCTURES BEFORE STARTING WORK. CONTRACTOR IS RESPONSIBLE FOR COST INCURRED DUE TO DAMAGE AND REPLACEMENT OF SAID UTILITIES.

D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT, LANDSCAPE ARCHITECT, OR THE ENGINEER, PRIOR TO THE START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED.

E. ANY EXISTING MATERIALS DAMAGED DURING CONSTRUCTION ARE TO BE REPLACED AT THE CONTRACTOR'S EXPENSE.

F. ALL WORK IS TO COMPLY WITH APPLICABLE CODES.

G. NOTIFY LANDSCAPE ARCHITECT BEFORE STARTING WORK TO COORDINATE OBSERVATION SCHEDULES. SEE SPECIFICATIONS FOR REQUIRED NOTIFICATION POINTS AND SCHEDULING.

H. COORDINATE CONDUIT, SLEEVES AND EMBEDMENTS PRIOR TO ANY HARDSCAPE CONSTRUCTION.

I. DIMENSIONS ARE FROM OUTSIDE FACE OF PAVING, WALLS, ETC., UNLESS OTHERWISE NOTED.

J. LOCATIONS OF FEATURES NOT SPECIFICALLY DIMENSIONED MAY BE DETERMINED BY SCALE. CONTACT LANDSCAPE ARCHITECT WHERE CONFLICTS OCCUR.

K. SLOPE SURFACES AND GRADES AWAY FROM BUILDINGS.

L. INSTALL EXPANSION JOINTS AS SHOWN ON PLANS AND WHEREVER PAVING ABUTS ANY VERTICAL SURFACE.

M. SAND THE SEALANT OF EXPANSION JOINTS THAT ABUT VERTICAL SURFACES.

N. SEE ARCHITECT'S DRAWINGS AND SPECIFICATIONS FOR WATERPROOFING AND WATERPROOFING PROTECTION.

O. VERIFY THAT WATERPROOFING IS COMPLETE AND WATERTIGHT PRIOR TO PAVEMENT INSTALLATION.

MATERIAL SCHEDULE:

KEY	MATERIAL	SYMBOL	COLOR	FINISH	COMMENTS
A	CONCRETE PAVING		INTEGRAL COLOR – TBD	TOPCAST 5	
B	CONCRETE PAVING		INTEGRAL COLOR – TBD	TOPCAST 25	
C	CONCRETE PAVING		NATURAL GRAY	MEDIUM BROOM FINISH	
D	NOT USED		–	–	–
E	SAND		TOP PRESS/ BUNKER SAND	TAN	24" DEPTH PER ARCH. SEE SPECIFICATIONS.
F	DECOMPOSED GRANITE		CALIFORNIA GOLD	–	

SITE FURNISHING SCHEDULE:

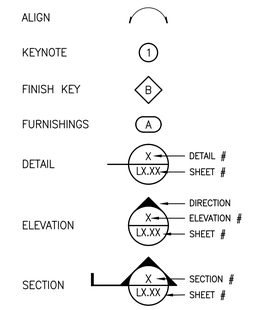
PROVIDED FOR REFERENCE ONLY U.N.O.
ALL LOOSE FURNISHINGS TO BE PROVIDED PER OWNER.

KEY	ITEM	MANUF/MODEL #	COLOR/MATERIAL	FINISH	COMMENTS
A	NOT USED	–	–	–	–
B	NOT USED	–	–	–	–
C	NOT USED	–	–	–	–
D	NOT USED	–	–	–	–
E	BIKE RACK	LANDSCAPE FORMS –RING BIKE RACK	STAINLESS STEEL	STAINLESS STEEL	PROVIDE AND INSTALL.
F	BOLLARD TYPE 1	4" DIA. ,36" HGT, RIGID GALVANIZED PIPE, CONCRETE FILLED WITH CONCRETE CAP	POWDERCOAT: TO MATCH ARCHITECTURAL METAL COLOR	–	TO MATCH DWP STANDARD BARRIER POST

ABBREVIATIONS:

∠	ANGLE
ABS	ACRYLONITRILE BUTADIENE STYRENE
<	LESS THAN
>	GREATER THAN
AD	AREA DRAIN
ADJ	ADJACENT
AFG	ABOVE FINISH GRADE
ALT	ALTERNATE
	ANGLE
APPROX	APPROXIMATE
AC	ASPHALT CONCRETE
ARCH	ARCHITECT
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
@	AT
BC	BEGINNING OF CURVE
BFP	BACKFLOW PREVENTION UNIT
BM	BENCH MARK
BS	BOTTOM OF STEP
BTH	BROWN TRUNK HEIGHT
BW	BOTTOM OF WALL
B/W	BOTH WAYS
CB	CATCH BASIN
CE	CIVIL ENGINEER
CL	CENTER LINE
CC	CENTER TO CENTER
CJ	CONTROL JOINT
CLF	CHAIN LINK FENCE
CLR	CLEAR
CO	CLEAN OUT
CONC	CONCRETE
CONST	CONSTRUCT
CONT	CONTINUOUS
CF	CUBIC FOOT
CSP	CORRUGATED STEEL PIPE
CY	CUBIC YARD
DF	DRINKING FOUNTAIN
DG	DECOMPOSED GRANITE
DET	DETAIL
DIA or Ø	DIAMETER
DRP	DEPT. OF RECREATION & PARKS
EA	EACH
EC	END OF CURVE
EE	ELECTRICAL ENGINEER
EJ	EXPANSION JOINT
ELEV	ELEVATION
EQ	EQUAL
EW	EACH WAY
EX	EXISTING
FB	FIELD BOOK
FL	FLOWLINE
FF	FINISH FLOOR
FG	FINISH GRADE (AT SOIL)
FH	FIRE HYDRANT
FIN	FINISH
FS	FINISH SURFACE (AT HARDSCAPE)
FOC	FACE OF CURB
FOW	FACE OF WALL
FT	FEET
GA	GAUGE
GALV	GALVANIZED
GPM	GALLONS PER MINUTE
HORIZ	HORIZONTAL
	LOCATION OF COMPACTION TEST, AS INDICATED ON THE PLAN
ID	INSIDE DIAMETER
INV	INVERT ELEVATION
IN	INCH
JOIN	MATCH EX ADJACENT GRADE BOTH HORIZ & VERT
JT	JOINT
LB or #	POUND
LF	LINEAL FEET
MAX	MAXIMUM
ME	MECHANICAL ENGINEER
MFG	MANUFACTURER
MH	MAINTENANCE HOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
NIC	NOT IN CONTRACT
NO	NUMBER
NTC	NOTICE TO CONTRACTORS
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
PA	PLANTING AREA
PB	PULL BOX
PL	PROPERTY LINE
POC	POINT OF CONNECTION
POD	POINT OF DIMENSION
PP	POWER POLE
PRC	POINT OF REVERSE CURVE
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
QCV	QUICK COUPLER VALVE
R	RADIUS
RCP	REINFORCED CONCRETE
RCV	REMOTE CONTROL VALVE
REBAR	REINFORCING BAR
ROW	RIGHT OF WAY
RPB	REDUCED PRESSURE BACKFLOW DEVICE
SD	STORM DRAIN
SE	STRUCTURAL ENGINEER
SHT	SHEET
SL	STREET LIGHT
SPEC	SPECIFICATIONS
SS	SANITARY SEWER
S/S	STAINLESS STEEL
SSPWC	STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION
SF	SQUARE FEET
TC	TOP OF CURB
TB	TOP OF BENCH
TBR	TO BE REMOVED
TD	TOP DECKING
TG	TOP OF GRATE
TS	TOP OF STEP
TW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W/	WITH
WM	WATER METER
WWM	WELDED WIRE MESH

CONSTRUCTION SYMBOLS:



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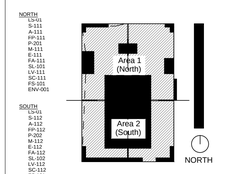
Professional Seal

No.	Description	Date
1	50% Design Development	11/07/2014
2	75% DD Pricing Package	12/12/2014
3	Plan Check	09/18/2015
4	SCE Submission	10/02/2015
5	Back-Check #1	11/20/2015
6	Back-Check #2 - ASI 008	01/08/2016
7	Issued for Construction - ASI 010	01/22/2016

Key Plan

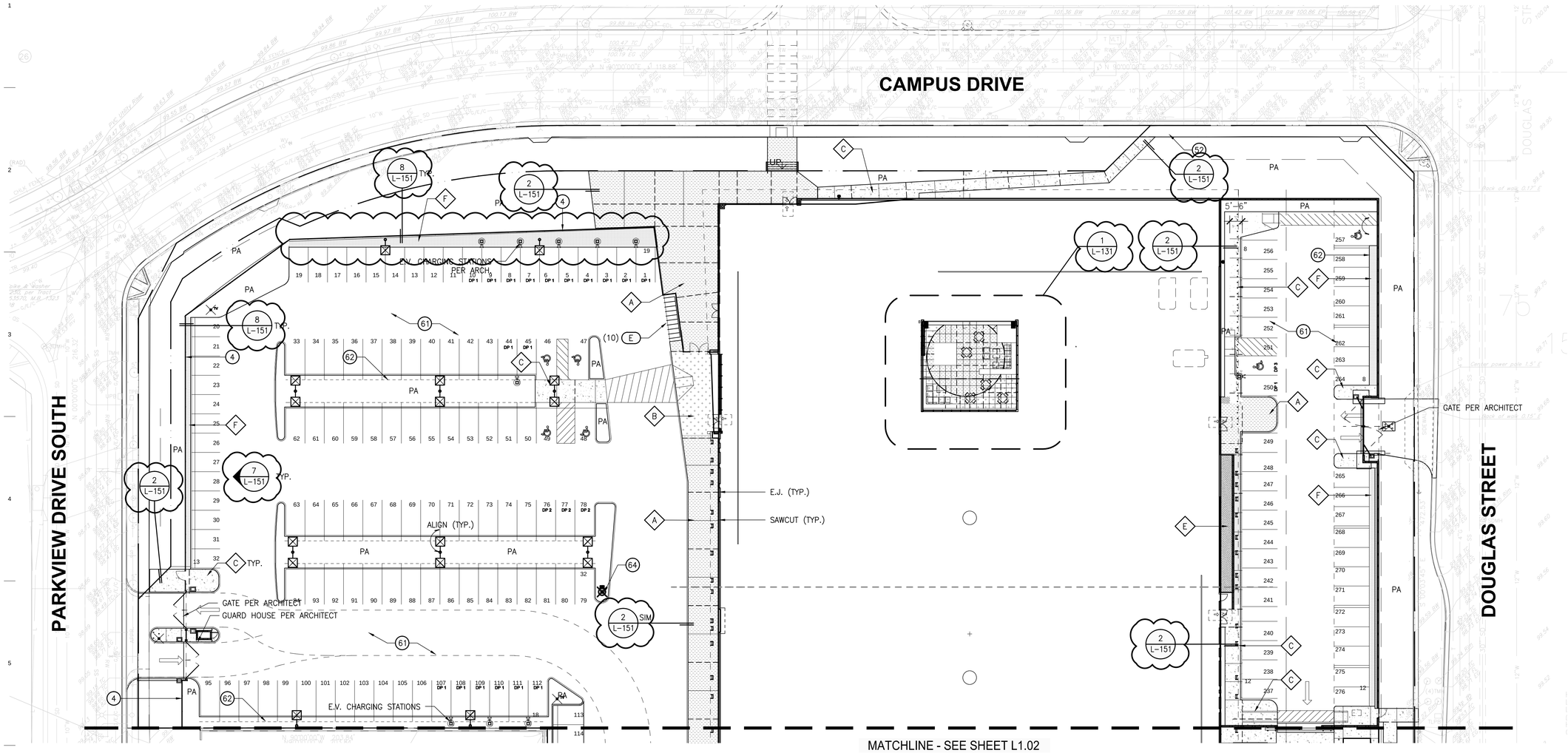


Sheet Title
LANDSCAPE CONSTRUCTION LEGEND AND NOTES

Project Number 2014-015

CAD File 114028_L100.dwg

Sheet Number
L1.00



CONSTRUCTION KEYNOTES:

1. COLD/EXPANSION JOINT.
2. SAWCUT JOINT.
3. SCORE JOINT.
4. METAL FENCE – 8' HGT; OMEGA 20, SEE ARCH. DWGS.

EXISTING REFERENCES:
51. TREE TO REMAIN.
52. CONCRETE WALK TO REMAIN.
53. CONCRETE CURB TO REMAIN.
54. POWER POLE TO REMAIN.
55. MANHOLE TO REMAIN.
56. LIGHT TO REMAIN.

CIVIL REFERENCES:
61. AC PAVING.
62. CONCRETE CURB.
63. CURB RAMP.
64. FIRE HYDRANT.
65. TRANSFORMER.
66. CATCH BASIN.
67. MANHOLE/UNDERGROUND UTILITY.

ARCHITECTURAL REFERENCES:
71. ENTRY STRUCTURE.
72. BUILDING EXIT.
73. FACE OF BUILDING.
74. SCREEN WALL.
75. MONUMENT SIGN.
76. TRASH ENCLOSURE.

STRUCTURAL REFERENCES:
81. BUILDING FOOTING.

OTHER REFERENCES: AS NEEDED
91. --

SEE SHEET L1.00 FOR SCHEDULES

0' 10' 20' 40' 60' 100' NORTH

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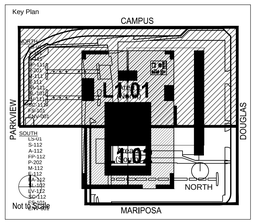
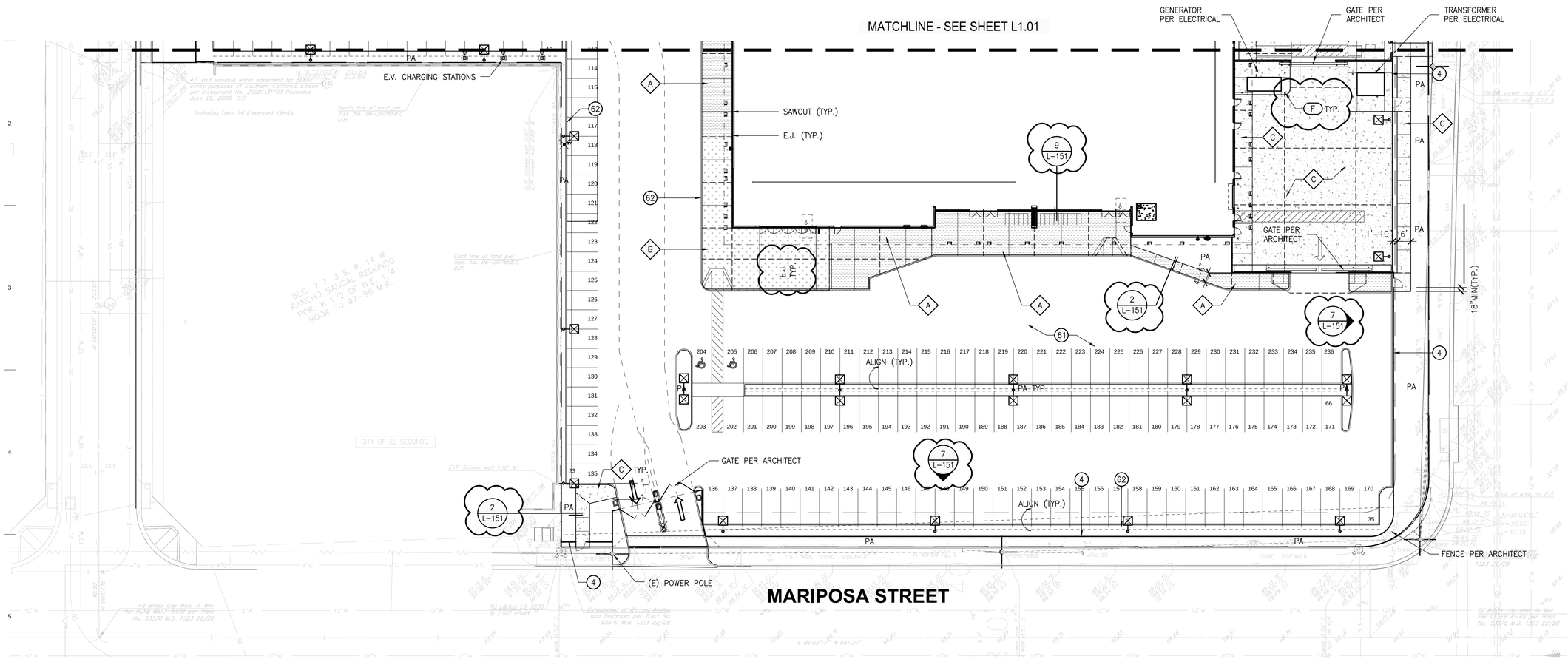
7	Issued for Construction - ASI 010	01/22/2016

Key Plan



Sheet Title
LANDSCAPE PLAN

Project Number 2014-015
CAD File 114028_L101.dwg
Sheet Number
L-101



CONSTRUCTION KEYNOTES:

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76. TRASH ENCLOSURE.

STRUCTURAL REFERENCES:
81. BUILDING FOOTING.

OTHER REFERENCES: AS NEEDED
91. --

SEE SHEET L1.00 FOR SCHEDULES

0' 10' 20' 40' 60' 100' NORTH

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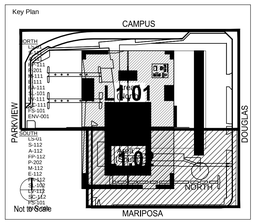
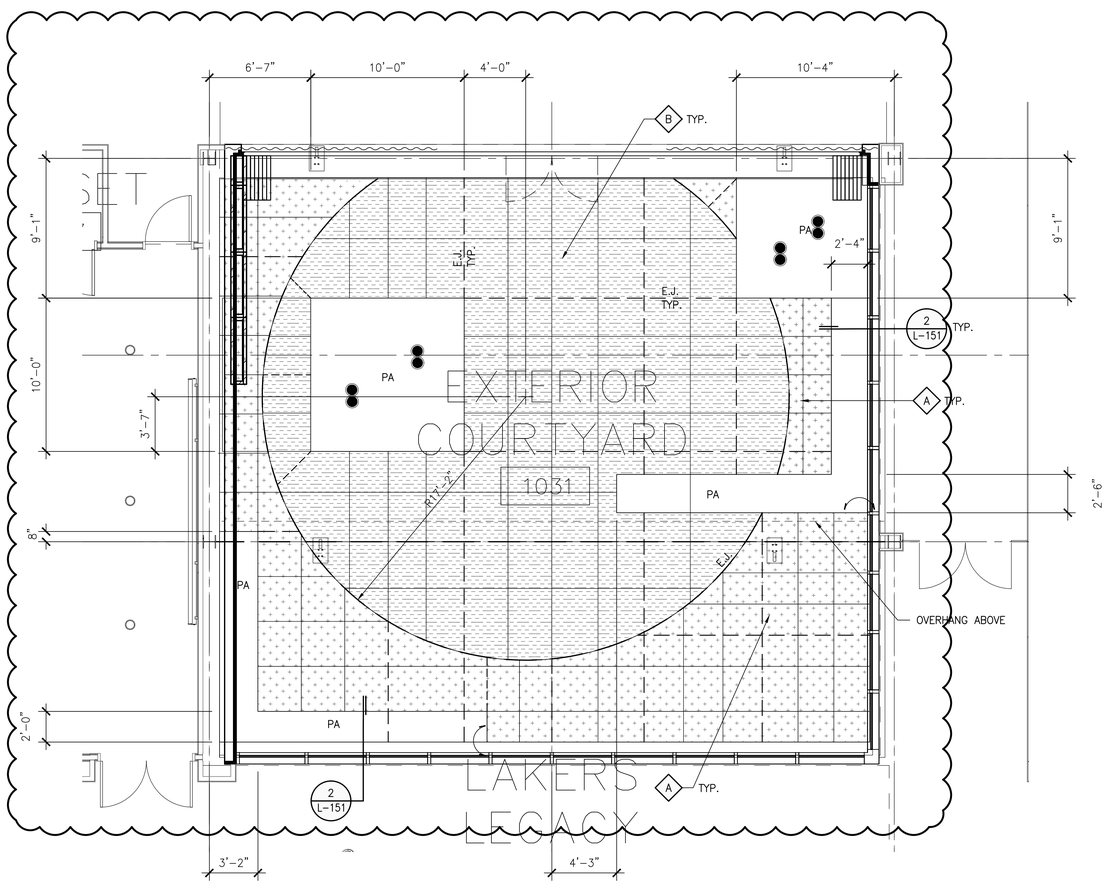


Sheet Title
LANDSCAPE PLAN

Project Number 2014-015
CAD File 114028_L102.dwg

Sheet Number
L-102



1 CENTRAL COURTYARD
SCALE: 1/4" = 1'-0"

NORTH

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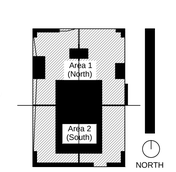
Key Plan



Sheet Title

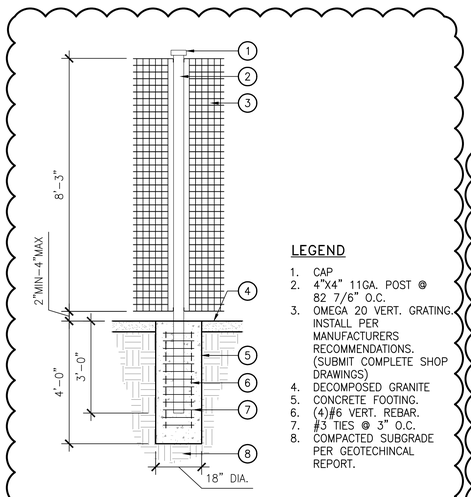
LANDSCAPE ENLARGEMENT PLAN

Project Number
2014-015

CAD File
114028_L131.dwg

Sheet Number

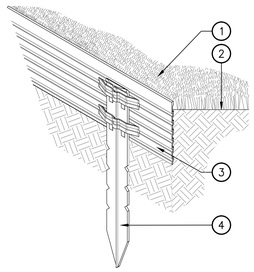
L-131



LEGEND

1. CAP
2. 4"X4" 11GA. POST @ 82 7/6" O.C.
3. OMEGA 20 VERT. GRATING. INSTALL PER MANUFACTURERS RECOMMENDATIONS. (SUBMIT COMPLETE SHOP DRAWINGS)
4. DECOMPOSED GRANITE
5. CONCRETE FOOTING.
6. (4)#6 VERT. REBAR.
7. #3 TIES @ 3" O.C.
8. COMPACTED SUBGRADE PER GEOTECHINCAL REPORT.

7 PERIMETER FENCE - OMEGA 20
SCALE: 1/2" = 1'-0" xxxxxx.dwg



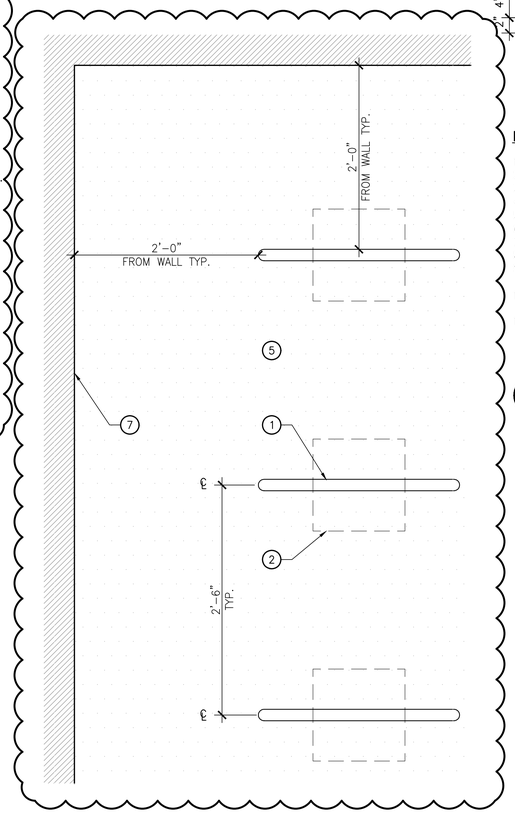
LEGEND

1. PLANTING AREA
2. FINISH GRADE.
3. MTL. EDGING. SEE SPEC FOR THICKNESS AND DIMS.
4. ALUM. STAKE. SECURE STAKE 1/2" BELOW TOP OF EDGING.

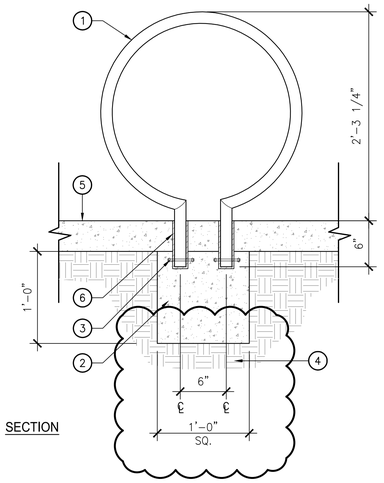
NOTES

A. SECURE STAKE INSIDE GRAVEL, GROUND COVER, OR D.G.
B. EDGING TO BE NO MORE THAN 1/2" ABOVE F.G.
C. COMPACT GRADE ADJ. TO EDGING TO PREVENT SETTLING.

8 METAL EDGING
SCALE: N.T.S. 32 90 00 Metal Edging.dwg



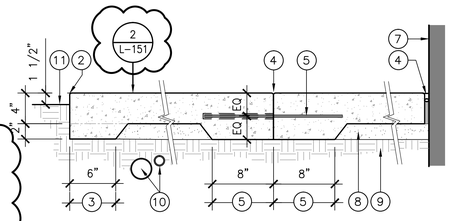
BIKE RACK PLAN LAYOUT TYP.



SECTION

LEGEND
1. S.S BIKE RACK PER SCHEDULE.
2. CONCRETE FOOTING.
3. BIKE RACK ANCHOR PER MANUFACTURER.
4. SITE SOIL.
5. PAVING PER SITE SCHEDULE.
6. CORE & INSTALL W/ 'SUPER POR-ROK'
7. ADJACENT WALL OR OBSTRUCTION.

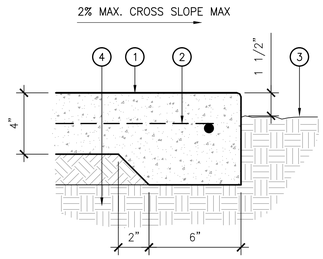
6 BIKE RACK
SCALE: 1-1/2" = 1'-0"



LEGEND

1. CONC. PAVING - FINISH PER PLAN.
2. 1/4" RADIUS, ALL EXPOSED EDGES.
3. THICKENED EDGE AT PAVEMENT PERIMETER.
4. COLD JOINT / E.J. SEE JOINT DETAIL.
5. DOWEL. SEE JOINT DETAIL.
6. THICKENED EDGE AT COLD/E.J.
7. BLDG. FACE OR VERTICAL SURFACE.
8. LEVEL, WASHED CONC. SAND BASE.
9. SUBGRADE - MAINTAIN EVEN SURFACE, FREE OF DEBRIS. SLOPE AS REQ.'D
10. CONDUITS, SLEEVES, ETC. SHALL BE BENEATH BASE, DEPTH AND BACKFILL PER SPECIFICATIONS.
11. F.G.

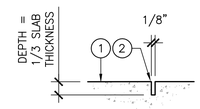
1 CONCRETE PAVING - TYPICAL
SCALE: 1-1/2" = 1'-0" 32 13 13 Conc pave.dwg



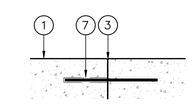
LEGEND

1. CONC. PAVING.
2. REINF. PER CIVIL DETAILS.
3. F.G.
4. COMPACTED SUBGRADE PER GEOTECH. REPORT

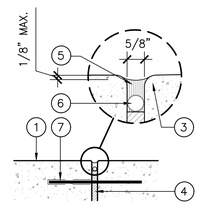
2 CONCRETE PAVING EDGE
SCALE: 3" = 1'-0" 32 13 13 Conc pave edge.dwg



A: SAWCUT JOINT



B: COLD JOINT



C: EXPANSION JOINT

LEGEND

1. PAVING FINISH SURFACE.
2. SAWCUT.
3. 1/4" R. @ EDGES. TYP.
4. PREMOLDED E.J. FILLER.
5. JOINT SEALANT. COLOR TO BE SELECTED BY LANDSCAPE ARCHITECT. SUBMIT COLOR SAMPLES PRIOR TO INSTALLATION.
6. BACKER ROD.
7. 18" #4 REBAR W/ 'SPEED DOWEL' @ 36" OC, CENTER IN CONC. AT COLD JOINTS & E.J.'S

3 CONCRETE PAVING JOINTS
SCALE: N.T.S. 32 13 13 Conc pave jts.dwg

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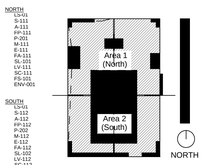


Sheet Title

LANDSCAPE CONSTRUCTION DETAILS

Project Number 2014-015

CAD File 114028_L151.dwg

Sheet Number

L-151

IRRIGATION NOTES

1. ALL LOCAL MUNICIPAL AND STATE LAWS, RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR.
2. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE.
3. THE CONTRACTOR SHALL OBTAIN THE PERTINENT ENGINEERING OR ARCHITECTURAL PLANS BEFORE BEGINNING WORK.
4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK INDICATED HEREIN BEFORE BEGINNING WORK.
5. THIS DESIGN IS DIAGRAMMATIC. ALL EQUIPMENT SHOWN IN PAVED AREAS IS FOR DESIGN CLARITY ONLY AND IS TO BE INSTALLED WITHIN PLANTING AREAS.
6. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY EQUIPMENT AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN CONDITIONS EXIST THAT WERE NOT EVIDENT AT THE TIME THESE PLANS WERE PREPARED. ANY SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO ANY WORK OR THE IRRIGATION CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY FIELD CHANGES DEEMED NECESSARY BY THE OWNER.
7. INSTALL ALL EQUIPMENT AS SHOWN IN THE DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH LOCAL CITY, COUNTY AND STATE REQUIREMENTS FOR BOTH EQUIPMENT AND INSTALLATION.
8. ACTUAL LOCATION FOR THE INSTALLATION OF THE BASKET STRAINER AND THE AUTOMATIC CONTROLLER IS TO BE DETERMINED IN THE FIELD BY THE OWNER'S AUTHORIZED REPRESENTATIVE.
9. CONTRACTOR IS TO PROVIDE AN ADDITIONAL PILOT WIRE FROM CONTROLLER ALONG ENTIRETY OF MAIN LINE TO THE LAST RCV ON EACH AND EVERY LEG OF MAIN LINE. LABEL SPARE WIRES AT BOTH ENDS.
10. ALL PIPE UNDER PAVED AREAS TO BE INSTALLED IN SLEEVING TWICE THE DIAMETER OF THE PIPE CARRIED. SEE LEGEND FOR TYPE. ALL WIRE UNDER PAVED AREAS TO BE INSTALLED IN A SCH. 40 SLEEVE THE SIZE REQUIRED TO EASILY PULL WIRE THROUGH. ALL SLEEVES TO BE INSTALLED WITH A MINIMUM DEPTH AS SHOWN ON THE SLEEVING DETAILS. SLEEVES TO EXTEND AT LEAST 12" PAST THE EDGE OF THE PAVING.
11. ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED IN SHRUB OR GROUND COVER AREAS WHERE POSSIBLE. ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED AS SHOWN ON THE INSTALLATION DETAILS. INSTALL ALL QUICK COUPLER AND REMOTE CONTROL VALVES WITHIN 18" OF HARDSCAPE.
12. ALL HEADS ARE TO BE INSTALLED WITH THE NOZZLE, SCREEN AND ARCS SHOWN ON THE PLANS. ALL HEADS ARE TO BE ADJUSTED TO PREVENT OVERSPRAY ONTO BUILDINGS, WALLS, FENCES AND HARDSCAPE. THIS INCLUDES, BUT NOT LIMITED TO, ADJUSTMENT OF DIFFUSER PIN OR ADJUSTMENT SCREW, REPLACEMENT OF PRESSURE COMPENSATING SCREENS, REPLACEMENT OF NOZZLES WITH MORE APPROPRIATE RADIUS UNITS AND THE REPLACEMENT OF NOZZLES WITH ADJUSTABLE ARC UNITS.
13. CONTRACTOR SHALL INSTALL ADDITIONAL CHECK VALVES TO HEADS AND LATERALS AS REQUIRED TO PREVENT LOW HEAD DRAINAGE.
14. THE CONTRACTOR SHALL USE PROPER GROUNDING TECHNIQUES FOR GROUNDING THE CONTROLLER AND RELATED EQUIPMENT PER MANUFACTURERS SPECIFICATIONS. SWEENEY AND ASSOCIATES RECOMMENDS MEASURING FOR PROPER GROUND AT LEAST ONCE ANNUALLY, AND NECESSARY ADJUSTMENTS MADE TO COMPLY WITH MANUFACTURER SPECIFICATIONS.

WATER EFFICIENT LANDSCAPE WORKSHEET

This worksheet is filled out by the project applicant and it is a required element of the Landscape Documentation Package

Project Name: Los Angeles Lakers Headquarters

Project Address: 2275 Mariposa, El Segundo CA 90245

s+a sweeney + associates IRRIGATION DESIGN AND CONSULTING

Reference Evapotranspiration (ETo) 50.1 In./Yr. **Residential Project?** No

Hydrozone # / Planting Description[a]	Plant Factor	Irrigation Method[b]	Irrigation Efficiency (IE)[c]	ETAF (PF / IE)	Landscape Area (Sq. Ft.)	ETAF x Area	Estimated Total Water Use (ETWU)[d]
Regular Landscape Areas							
1. Mix Water Use Plantings	0.35	Drip	0.81	0.44	32,651	14,366	446,250
2. Low Water Use Plantings	0.00	Drip	0.81	0.00	0	0	0
3. Medium Water Use Hydroseed	0.00	Drip	0.81	0.00	0	0	0
4. Medium Water Use Turf	0.00	Overhead	0.75	0.00	0	0	0
5. Medium Water Use Turf	0.00	Drip	0.81	0.00	0	0	0
6. Water Feature / Pool / Spa	0.00	Direct Fill	1.00	0.00	0	0	0
				Totals:	32,651	14,366	
Special Landscape Areas							
1. Picnic Area				1.00	0	0	0
2. Active Turf				1.00	0	0	0
3. Vegetable Garden				1.00	0	0	0
				Totals:	0	0	
				Estimated Total Water Use (ETWU) Total:			446,250
				Maximum Applied Water Allowance (MAWA)*:			456,392

[a] **Hydrozone # / Planting Description** E.g. 1.) Front Lawn 2.) Low Water Use Plantings 3.) Medium Water Use Plantings

[b] **Irrigation Method** Overhead Spray of Drip

[c] **Irrigation Efficiency** 0.75 for Spray 0.81 for Drip

[d] ***ETWU (Annual Gallons Required)*** = ETo x 0.62 x ETAF x Area
Where 0.62 is a conversion factor that converts acre-inches/acre/year to gallons/square foot/year.

* ***MAWA (Annual Gallons Allowed)*** = *ETo x 0.62 x [(ETAF x LA) + ((1 - ETAF) x SLA)]*
Where 0.62 is a conversion factor that converts acre-inches/acre/year to gallons/square foot/year, LA is the total landscape area in square feet, SLA is the total special landscape area in square feet, and ETAF is 0.55 for residential projects and 0.45 for non-residential projects.

Evapotranspiration Adjustment Factor (ETAF) Calculations

This non-residential project complies with the WELO and its average ETAF is less than ***0.45***

Regular Landscape Areas	
Total ETAF x Area	14,366
Total Area	32,651
Average ETAF	**0.44**

All Landscape Areas	
Total ETAF x Area	14,366
Total Area	32,651
Average ETAF	**0.44**

IRRIGATION CONTROLLER RUN TIMES

POC or Controller		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total / Avg.
A	ETo / Month (inches):	2.20	2.70	3.70	4.70	5.50	5.80	6.20	5.90	5.00	3.90	2.60	1.90	**50.10**
	ETo / Day (inches):	0.07	0.10	0.12	0.16	0.18	0.19	0.20	0.19	0.17	0.13	0.09	0.06	**0.14**
	Irrigation Days / Week:	6	6	6	6	6	6	6	6	6	6	6	6	

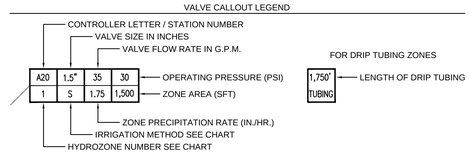
Plant / Irrig. Type	AKc	Pr Rate	IE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
Shrubs	0.40	0.72	0.90	3.1	4.2	5.2	6.8	7.7	8.4	8.6	8.2	7.2	5.4	3.7	2.6	Min./Day/Zone
Drip Tubing	**Number of Zones:**		15	**46.0**	**62.5**	**77.4**	**101.5**	**115.0**	**125.3**	**129.6**	**123.4**	**108.0**	**81.5**	**56.2**	**39.7**	**Total Min./Day**
Trees	0.80	3.00	0.90	1.5	2.0	2.5	3.2	3.7	4.0	4.1	3.9	3.5	2.6	1.8	1.3	Min./Day/Zone
Bubblers	**Number of Zones:**		6	**8.8**	**12.0**	**14.9**	**19.5**	**22.1**	**24.1**	**24.9**	**23.7**	**20.7**	**15.7**	**10.8**	**7.6**	**Total Min./Day**
	Total Number of Zones:		**21**	55	75	92	121	137	149	155	147	129	97	67	47	Total Min./Day
	Total Controller Run Time in Hours:			**0.91**	**1.24**	**1.54**	**2.02**	**2.28**	**2.49**	**2.58**	**2.45**	**2.15**	**1.62**	**1.12**	**0.79**	**Total Hrs./Day**
				JAN	**FEB**	**MAR**	**APR**	**MAY**	**JUN**	**JUL**	**AUG**	**SEP**	**OCT**	**NOV**	**DEC**	

Note: **These schedules are intended only for compliance with local municipal codes and the water efficient landscape ordinance. These calculations represent the MAXIMUM REASONABLE run times and are used to ensure that all irrigation may be completed during the specific watering window allowed. These schedules do not include rainfall, site soil types, specicic exposures (shade versus sun), actual irrigation days, or specific slope position. It is solely the responsibility of the irrigation contractor to program the controller as required to apply the correct amount of irrigation water for the landscape. All smart controllers shall be programmed using the specified ET or weather sensing equipment, satellite provided ET data, soil moisture sensors, and rain shut off devices as required. Contractor shall provide a controller schedule inside the controller cabinet prior to final turnover of the project to the owner.**

IRRIGATION MATERIAL LEGEND

SYMBOL	MANUFACTURER	MODEL NO. / DESCRIPTION	FLOW RATE (GPM)	PSI	RADIUS	P.R. (TRI.)	DETAIL
▽	RAIN BIRD	RD-06-S-P30-F-NP 6" POP-UP BUBBLER HEAD WITH A RAIN BIRD 5Q-B STREAM BUBBLER NOZZLE. EACH SYMBOL REPRESENTS TWO (2) BUBBLERS PER TREE OR PALM, PLACE BUBBLERS AT EDGE OF ROOT BALL ON OPPOSITE SIDES OF TREE OR PALM, TYPICAL. ADJUST BUBBLER STREAMS TO WET THE ROOT BALL AND AMENDED SOIL WITHOUT HITTING THE TRUNK OF THE TREE OR PALM.	.50 (1.0 TOTAL)	30	5 FT	N/A	A,B
SHRUBS / TURF	RAIN BIRD	XFS-P-06-12 SUBSURFACE DRIP TUBING (PURPLE OVER BLACK EXTERIOR COLOR) WITH 0.60 GPH, PRESSURE COMPENSATING EMITTERS INTERNALLY INSTALLED IN THE DRIP TUBING AT 12" O.C. SPACING. DRIP TUBING SHALL BE EQUIPPED WITH COPPER CHIP TECHNOLOGY TO PREVENT ROOT INTRUSION INTO THE DRIP EMITTER. DRIP TUBING SHALL BE INSTALLED IN FINISHED SOIL GRADE (NOT COUNTING MULCH) AND IN PARALLEL ROWS A MAXIMUM OF 16" ON CENTER. THE PERIMETER ROW OF DRIP TUBING SHALL BE INSTALLED A MAXIMUM OF 4" FROM THE EDGE OF ANY HARDSCAPE OR TURF EDGE. ALL SUBSEQUENT INTERIOR ROWS SHALL BE ADJUSTED TO PROVIDE AN EVEN SPACING ACROSS THE PLANTER WITHOUT EXCEEDING 16" MAXIMUM SPACING. INSTALL 9" PVC COATED GALVANIZED TUBING STAKES A MAXIMUM OF FIVE (5) FEET ON CENTER ALONG THE LENGTH OF THE TUBING. TUBING STAKES SHALL BE MODEL #GDTS140900 AS MANUFACTURED BY GPH IRRIGATION PRODUCTS (866) 582-9684. THE HATCH PATTERN SYMBOLS ON THE PLANS REPRESENT THE APPROXIMATE DIRECTION AND SPACING OF THE DRIP TUBING ROWS, SEE ACTUAL SPACING REQUIREMENTS ABOVE AND IN DETAILS.					C,D
NO SYMBOL	RAIN BIRD	CONNECTION BETWEEN XFS DRIP TUBING AND PVC SUPPLY AND DISCHARGE HEADERS SHALL BE MADE USING XF DRIP LINE BARBED FITTINGS, SCH. 40 PVC THREADED FITTINGS, SCH. 80 NIPPLES AND FLEXIBLE NIPPLES. WHEN THE CONNECTION IS AT THE END RUN OF THE TUBING USE A 1/2" SCH. 40 PVC THREADED 90° ELBOW, A 1/2" X LENGTH AS REQUIRED SCH. 80 PVC THREADED NIPPLE, A 1/2" X 6" MIPT X FIPT FLEXIBLE NIPPLE, AND A XFF-MA-050 17mm BARB X 1/2" MIPT ADAPTER FITTING. WHEN THE CONNECTION IS IN THE MIDDLE OF THE TUBING RUN USE A 1/2" SCH. 40 PVC THREADED TEE FITTING, A 1/2" X LENGTH AS REQUIRED SCH. 80 PVC THREADED NIPPLE, A 1/2" X 6" MIPT X FIPT FLEXIBLE NIPPLE, AND TWO (2) XFF-MA-050 17mm BARB X 1/2" MIPT ADAPTERS. ALL END RUNS OF TUBING SHALL BE CONNECTED WITH A PVC DISCHARGE HEADER. FLEXIBLE NIPPLES SHALL BE MODEL #GFN050600 AS MANUFACTURED BY GPH IRRIGATION PRODUCTS (866) 582-9684.					C,D
NO SYMBOL	RAIN BIRD	XF SERIES 17mm BARBED FITTINGS FOR ALL CONNECTIONS BETWEEN DRIP TUBING (TUBING-TO-TUBING ONLY). ALL BARBED DRIP TUBING FITTINGS SHALL BE INSTALLED USING A FITINS-TOOL FOR PROPER INSERTION OF THE FITTING INTO THE TUBING. NO HEATING OF TUBING SHALL BE ALLOWED.					C,D
— — — —	AS APPROVED	PVC SUPPLY AND DISCHARGE HEADERS SHALL BE PVC LATERAL LINE PIPE (AS SHOWN BELOW), 1" MINIMUM SIZE WITH SCH. 40 PVC FITTINGS.					C,D
NO SYMBOL	RAIN BIRD	WHERE VINES ARE PLANTED ON WALLS, FENCES OR COLUMNS WITHIN THE DRIP TUBING ZONES, ADDITIONAL DRIP EMITTERS SHALL BE REQUIRED FOR THESE VINE PLANTINGS. THE CONTRACTOR SHALL INSTALL TWO (2) XB-10PC 1 GPH DRIP EMITTERS PER VINE PLANTING. THESE ADDITIONAL EMITTERS SHALL BE PUNCHED DIRECTLY INTO THE DRIP TUBING. EMITTERS SHALL BE INSTALLED USING A XM-TOOL EMITTER INSTALLATION TOOL. EACH DRIP EMITTER SHALL BE INSTALLED WITH AN 18" LENGTH OF XQ-1/4" DISTRIBUTION TUBING, A TS-025 TUBING STAKE AND A DBC-025 DIFFUSER BUG CAP. LOCATE EMITTER OUTLETS DIRECTLY OVER THE ROOT BALL OF THE VINE PLANTING.					G
Ⓕ	GPH IRRIGATION/ RAIN BIRD	GDFN-R DRIP FLUSH / INDICATOR NOZZLE, PURPLE IN COLOR, INSTALLED ONTO A RAIN BIRD RD-12-NP 12" POP-UP SPRINKLER BODY. THE FLUSH NOZZLE SHALL BE ORIENTED TO SEND FLUSH WATER INTO THE PLANTER AREA AND CLOSED FOR NORMAL OPERATION OF THE DRIP SYSTEM.					C,E
Ⓐ	RAIN BIRD	ARV050 AIR/VACUUM RELIEF VALVE INSTALLED WITH A XFD-TFA-075 BARB X BARB X 3/4" FIPT TEE FITTING AND A AND A 3/4" X 1/2" SCH. 40 PVC THREADED REDUCER BUSHING. INSTALL AIR RELIEF ASSEMBLY AT THE HIGH POINT OF EACH PLANTER. SEE PLANS FOR APPROXIMATE LOCATION AND QUANTITY OF ARV'S PER DRIP ZONE. USING AN AIR RELIEF LATERAL CONSTRUCTED OF XFD "BLANK" XF TUBING, CONNECT AIR RELIEF VALVE TO ALL DRIP LINE LATERALS WITHIN THE ELEVATED AREA. MULTIPLE ARV'S MAY BE REQUIRED PER DRIP TUBING ZONE, SEE PLANS. INSTALL INSIDE A 7" ROUND VALVE BOX.					C,F,U
Ⓜ	METER	1 1/2" RECYCLED (RECLAIMED) WATER METER WITH 6" SERVICE LINE. VERIFY METER SIZE, LOCATION AND WATER PRESSURE IN FIELD.					N/A
Ⓨ	YARDNEY	SB-X, 1 1/2" FLANGED STEEL BASKET STRAINER WITH 80 MESH STAINLESS STEEL FILTER ELEMENT. INSTALL ON DOWNSTREAM SIDE OF RECYCLED WATER POINT OF CONNECTION. INSTALL INSIDE A JUMBO RECTANGULAR VALVE BOX.					H,U
Ⓜ	RAIN BIRD	150-PESB-R-PRS-D 1 1/2" NORMALLY CLOSED, PRESSURE REGULATING, PLASTIC MASTER CONTROL VALVE. WIRE MCV TO THE CONTROLLER USING A SEPARATE PILOT AND GROUND WIRE, ROUTE INSIDE CONDUIT WITH FLOW SENSOR WIRE. INSTALL INSIDE A STANDARD RECTANGULAR VALVE BOX.					I,U
Ⓕ	C.S.T.	FSI-T15-001 1 1/2" PVC TEE, HDPE IMPELLER TYPE FLOW SENSOR, WIRE TO CONTROLLER USING TWO (2) #14UF AWG WIRES INSIDE A 1 1/4" SCH. 40 PVC (GRAY) ELECTRICAL CONDUIT, WITH MASTER CONTROL VALVE WIRES. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND INSIDE A STANDARD RECTANGULAR VALVE BOX. CONTACT CREATIVE SENSOR TECHNOLOGY'S REPRESENTATIVE, GENTILE & ASSOCIATES (STEVEN KIM) AT (760) 214-5734 FOR FURTHER INFORMATION.					J,U
⋈	LASCO	VXX101N-SC XX" SLO-CLOSE SCH. 80 PVC, TRUE-UNION BALL VALVE WITH SOLVENT WELD SOCKET CONNECTIONS, LINE SIZE PER MAINLINE. INSTALL INSIDE A 10" ROUND VALVE BOX.					K,U
◉	SIGNATURE	7645 1" ACME THREADED QUICK COUPLER VALVE WITH PURPLE LOCKING VINYL COVER AND A LASCO G13S-218 SWING JOINT. INSTALL INSIDE A 10" ROUND VALVE BOX.					L,U
●	RAIN BIRD	XXX-PESB-R PRESSURE REGULATING, PLASTIC REMOTE CONTROL VALVE (RCV), SIZE AS SHOWN (1" AND 1 1/2" SIZES), SET PRS-D PRESSURE REGULATOR TO PROVIDE THE OPERATING PRESSURE OF THE SPRINKLER / BUBBLER HEAD TO THE HIGHEST OR FARTHEST HEAD ON THE CONTROL VALVE ZONE. INSTALL THE RCV INSIDE A STANDARD RECTANGULAR VALVE BOX.					M,U
◔	RAIN BIRD	XXX-PESB-R PLASTIC DRIP REMOTE CONTROL VALVE, SIZE AS SHOWN (1" AND 1 1/2" SIZES). INSTALL A DISC FILTER AND AN INLINE PRESSURE REGULATOR ON THE DOWNSTREAM SIDE OF EACH DRIP REMOTE CONTROL VALVE (DRCV). FOR 1" DRCV'S INSTALL A RAIN BIRD LCRBY-100D DISC FILTER AND A SENNINGER 1" PMR-30-MF PRESSURE REGULATOR. FOR 1 1/2" DRCV'S INSTALL A RAIN BIRD LCRBY-150D DISC FILTER AND A SENNINGER 1 1/4" PMR-30-HF PRESSURE REGULATOR. USE A 1 1/2" SCH. 40 PVC THREADED COUPLING, A 1 1/2" X 1 1/4" PVC THREADED REDUCER BUSHING, AND A 1 1/4" X 2" SCH. 80 PVC NIPPLE AS REQUIRED TO CONNECT THE 1 1/4" REGULATOR TO THE DOWNSTREAM SIDE OF THE 1 1/2" FILTER. INSTALL THE DRCV ASSEMBLY INSIDE A JUMBO RECTANGULAR VALVE BOX.					N,U
⊡	RAIN BIRD	ESP12LXMEF 12 STATION CONTROLLER WITH ONE (1) ESPLXMSM12 12-STATION EXPANSION MODULE TO CREATE A 24 STATION CONTROLLER. INSTALL CONTROLLER INSIDE A STAINLESS STEEL ENCLOSURE, SEE BELOW FOR TYPE.					O
NO SYMBOL	V.I.T.	SB-16SS STRONGBOX STAINLESS STEEL TOP-ENTRY CONTROLLER ENCLOSURE WITH CSA SUB-ASSEMBLY, RGVRSS AND QP-16 "QUICK PAD".					O
NO SYMBOL	PAIGE ELECTRIC	THE CONTROLLER SHALL BE GROUNDED USING A #182000 5/8" X 8 FOOT COPPER CLAD GROUND ROD, A #182005 CAST BRONZE ROD CLAMP AND THE REQUIRED LENGTH OF #6AWG BARE, SINGLE STRAND COPPER GROUND WIRE. INSTALL INSIDE A 10" ROUND VALVE BOX.					O,P,U
⊠	RAIN BIRD	ETC-LX ET MANAGER CARTRIDGE AND ETM-RG TIPPING RAIN GAUGE, MOUNT RAIN GAUGE IN RGVRSS ENCLOSURE ON THE SIDE OF THE CONTROLLER ENCLOSURE, SEE BELOW FOR TYPE.					O
⊡	N/A	120 VOLT ELECTRICAL POWER FOR CONTROLLER, PROVIDED BY ELECTRICIAN, VERIFY ACTUAL LOCATION IN FIELD					N/A
———	AS APPROVED	RECYCLED WATER 'PURPLE' PVC PIPE 3/4" - 3" SCH. 40, SOLVENT WELD WITH SCH. 40 PVC FITTINGS, AS LATERAL LINES INSTALLED 12" BELOW FINISHED GRADE					Q
— — — —	AS APPROVED	RECYCLED WATER 'PURPLE' PVC PIPE 2" CL. 315, SOLVENT WELD WITH SCH. 80 PVC FITTINGS, AS MAINLINES INSTALLED 18" BELOW FINISHED GRADE					Q,S
— — — —	AS APPROVED	RECYCLED WATER 'PURPLE' PVC PIPE SCH. 40 AS SLEEVING, 2.5 TIMES THE DIAMETER OF PIPE OR WIRE BUNDLE CARRIED (2" MINIMUM SIZE) INSTALL ALL PIPE AND WIRE UNDER PAVING, HARDSCAPE, ETC. (OR AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE) INSIDE SLEEVES. SLEEVES UNDER PEDESTRIAN PAVING SHALL BE INSTALLED 24" BELOW FINISHED GRADE. SLEEVES UNDER VEHICULAR PAVING SHALL BE INSTALLED 36" BELOW FINISHED GRADE.					R
NO SYMBOL	LASCO	ALL FITTINGS USED WITH SOLVENT WELD MAINLINE PIPE SHALL BE SCH. 80 PVC FITTINGS, GRAY IN COLOR, AND SIZED TO MATCH THE THR MAINLINE PIPE. ALL FITTINGS USED WITH SOLVENT WELD LATERAL LINE PIPE SHALL BE SCH. 40 PVC, WHITE IN COLOR, AND SIZED TO MATCH THE LATERAL LINE PIPE. ALL THREADED PVC NIPPLES SHALL BE SCH. 80 PVC PIPE, DARK GRAY IN COLOR, WITH MOLDED THREADS.					N/A
NO SYMBOL	AS APPROVED	ALL SOLVENT WELD CONNECTIONS FOR BOTH MAINLINE AND LATERAL LINE SHALL BE MADE USING THE TWO-STEP PROCESS OF PRIMER AND SOLVENT CEMENT. PRIMER SHALL BE LOW VOC "PURPLE PRIMER". MAINLINE SOLVENT CEMENT SHALL BE LOW VOC, "GRAY-HEAVY BODY" CEMENT. LATERAL LINE SOLVENT CEMENT SHALL BE LOW VOC, GRAY OR BLUE COLORED MEDIUM BODIED CEMENT. USE DAUBERS SIZED AT LEAST ONE-HALF THE SIZE OF THE LARGEST PIPE BEING JOINED. ALL SOLVENT CEMENTED JOINTS SHALL BE MADE PER THE PIPE AND FITTING MANUFACTURER'S RECOMMENDATIONS.					N/A
NO SYMBOL	AS APPROVED	ALL SOLVENT WELD MAINLINES ABOVE 2" IN SIZE SHALL HAVE CONCRETE THRUST BLOCKING INSTALLED AT ALL DIRECTIONAL CHANGES INCLUDING ELBOWS (45° AND 90°) AND TEES. MAINLINE PIPES UNDER 2" SIZE AND ALL LATERAL LINES DO NOT REQUIRE THRUST BLOCKING.					S
NO SYMBOL	AS APPROVED	11/4" SCH. 40 PVC, GRAY ELECTRICAL CONDUIT FOR FLOW SENSOR / MASTER VALVE WIRES OR CENTRAL CONTROL COMMUNICATION CABLE, PROVIDE PULL BOX AT A MAXIMUM OF 200 FEET ON CENTER FOR A 3 FOOT WIRE LOOP OR ANY SPLICES. INSTALL INSIDE A STANDARD RECTANGULAR VALVE BOX.					N/A
⟵ · · ⟶	AS APPROVED	TYPE 'K' COPPER PIPING ROUTED BETWEEN PLANTERS, AND THROUGH BUILDING AND GARAGES. COPPER PIPING SHALL BE DESIGNED BY THE PLUMBING ENGINEER AND BE SHOWN ON THE PLUMBING PLANS. COPPER PIPING SHALL BE INSTALLED BY THE PLUMBER. COPPER PIPING SHOWN IS FOR REFERENCE ONLY. VERIFY LOCATION, SIZE AND STUB-OUTS OF COPPER PIPING IN THE FIELD PRIOR TO STARTING WORK.					N/A
⟵ · · ⟶	AS APPROVED	CONNECTION POINT BETWEEN COPPER PIPING (PROVIDED BY PLUMBER) AND PVC IRRIGATION PIPING. COPPER PIPE STUB-OUT SHALL HAVE A LINE SIZED SWEAT X FIPT COPPER ADAPTER PROVIDED FOR CONNECTION TO THE IRRIGATION PIPING. USE A LINE SIZED X 6" SCH. 80 T.O.E. PVC NIPPLE AND A LINE SIZED PVC COUPLING FOR THE CONNECTION. VERIFY LOCATION, SIZE AND STUB-OUTS OF COPPER PIPING IN THE FIELD PRIOR TO STARTING WORK.					N/A
NO SYMBOL	PAIGE ELECTRIC	P7079D POLYETHYLENE INSULATED, SOLID COPPER CONDUCTOR IRRIGATION CONTROL WIRE #14UF AWG DIRECT BURIAL (U.L. APPROVED). PILOT WIRES SHALL BE RED IN COLOR, COMMON GROUND WIRE SHALL BE WHITE IN COLOR, SPARE WIRES SHALL BE YELLOW IN COLOR. WHERE MULTIPLE CONTROLLERS ARE USED ON THE PROJECT, EACH CONTROLLER SHALL HAVE A DIFFERENT COLOR FOR PILOT WIRES. THE CONTRACTOR SHALL ROUTE TWO (2) SPARE CONTROL WIRES (YELLOW) FROM THE CONTROLLER ALONG THE MAINLINE IN ALL DIRECTIONS AWAY FROM THE CONTROLLER. LOOP SPARE WIRES UP AND INTO EACH VALVE BOX ALONG THE MAINLINE, PROVIDING A 3 FOOT MINIMUM LOOP.					Q,R,T
NO SYMBOL	3M	DBR/Y-6 DIRECT BURIAL (I.L. APPROVED) WATER-PROOF WIRE CONNECTORS FOR USE ON ALL WIRE SPLICES AND CONNECTIONS					T
Ⓡ	AS APPROVED	RECYCLED WATER SIGNS, INSTALL QUANTITY AND LOCATIONS PER COUNTY REQUIREMENTS					V
NO SYMBOL	T. CHRISTY'S	PURPLE RECYCLED WATER WARNING TAGS, ATTACH TO ALL EQUIPMENT, PER COUNTY REQUIREMENT					N/A
NO SYMBOL	T. CHRISTY'S	MODEL TA-IND-X-PRW, 2 1/2" AND 3" RECYCLED WATER MAINLINE IDENTIFICATION TAPE TO BE INSTALLED ALONG ENTIRE SURFACE OF PIPE					N/A
NO SYMBOL	RAIN BIRD	ALL VALVE BOXES SHALL BE VB SERIES, PLASTIC TYPE WITH OVERLAPPING LIDS. VALVE BOX BODIES SHALL BE BLACK IN COLOR. LIDS FOR BOXES IN ALL AREAS SHALL BE PURPLE. ALL BOXES SHALL BE SECURED WITH A RAIN BIRD VB-LOCK-P PENTA HEAD BOLT, WASHER AND CLIP.					U

VALVE CALLOUT LEGEND



HYDROZONE DESCRIPTION CHART	
NUMBER	DESCRIPTION OF THE HYDROZONE
HZ 1	SHRUBS WITH DRIP TUBING
HZ 2	TREE BUBBLERS

IRRIGATION METHOD DESCRIPTION CHART	
NUMBER	DESCRIPTION OF THE IRRIGATION METHOD
DT	DRIP TUBING
B	BUBBLERS

I HAVE COMPLIED WITH THE CRITERIA OF THE IRRIGATION GUIDELINES AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN

sweeney + associates
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Professional Seal

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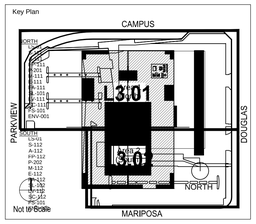
7	Issued for Construction - ASI 010	01/22/2016

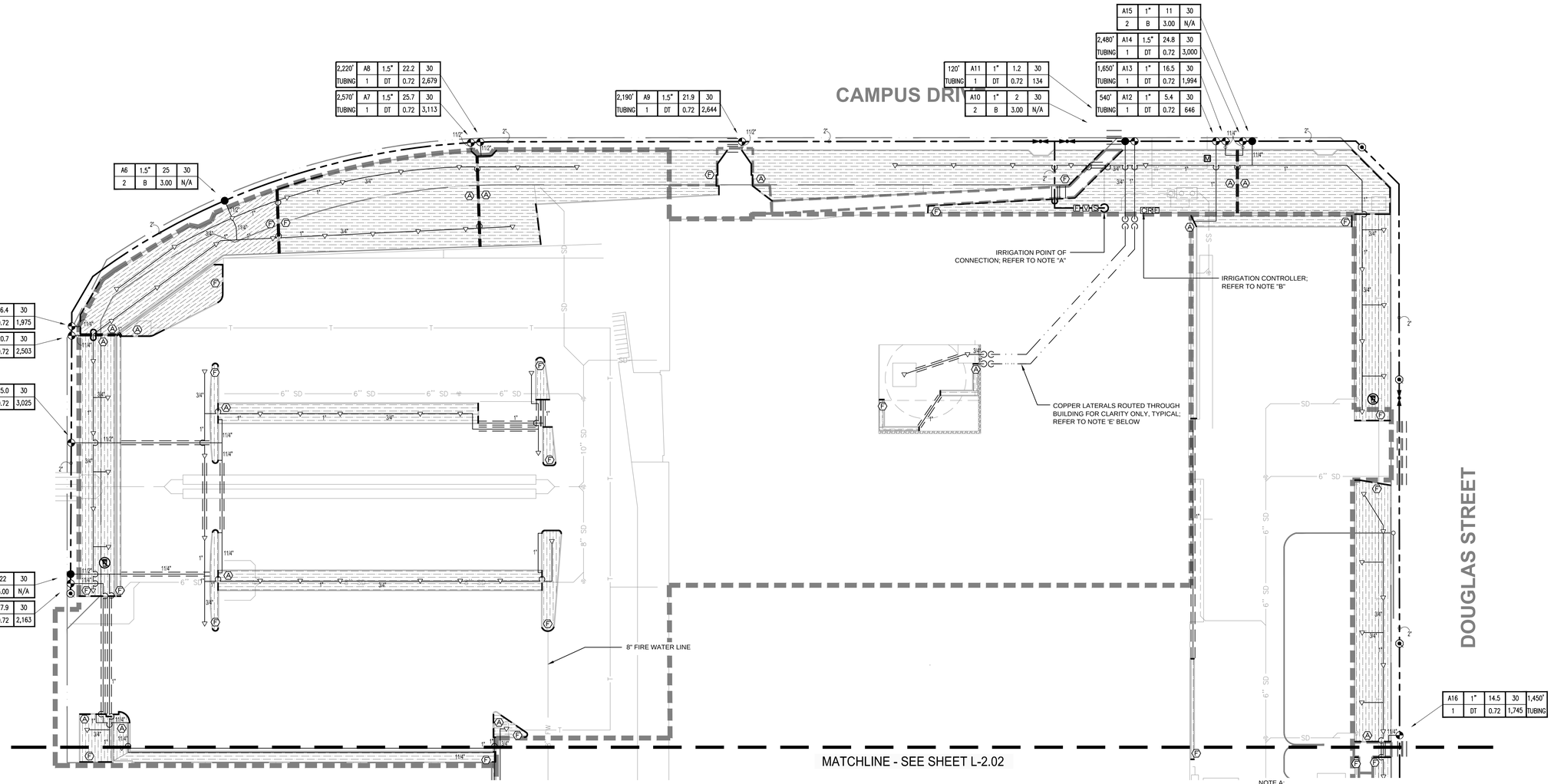
Key Plan



Sheet Title
IRRIGATION LEGEND

Project Number	CAD File
2014-015	114028_L200.dwg

Sheet Number
L-200



WATER PRESSURE LOSS CALCULATIONS

WATER METER NUMBER	1	WATER METER SIZE (Inches)	1.50
HYDRAULIC GRADE LINE (FT)		WATER METER ELEVATION (FT)	
ELEVATION DIFFERENCE (FT)		MIN. REQ. STATIC PRESSURE (PSI)	57.0
REMOTE CONTROL VALVE #	A3	REMOTE CONTROL VALVE SIZE (In.)	1.50
R.C.V. DEMAND (GPM)	25	TOTAL DEMAND (GPM)	25
HIGHEST HEAD SERVED (FT)		STATIC PRESSURE AT HIGHEST HEAD	

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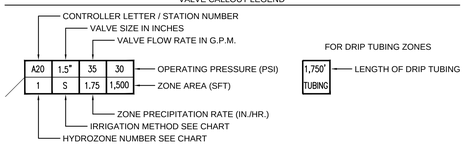
PRESSURE LOSS CALCULATION IS PROVIDED FOR THIS PROJECT BY SWEENEY & ASSOCIATES, INC. UNAUTHORIZED USE BY ANY OTHER PERSON, COMPANY OR PROJECT IS FORBIDDEN WITHOUT WRITTEN PERMISSION.

SIZE (Inches)	DESCRIPTION	FLOW	#	LOSS	
6.00	SERVICE LINE (50 FT OF TYPE K COPPER)	25	1	0.00	PSI
1.50	WATER METER (XXXX TYPE)	25	2	1.30	PSI
1.50	BASKET STRAINER	25	3	0.70	PSI
	FILTRATION (WYE FILTER)		4	0.00	PSI
	PRESSURE REGULATOR (WILKINS 500HLR)		5	0.00	PSI
	BFD ASSEMBLY PIPING (BRASS W/ 4 ELLS)		6	0.00	PSI
1.50	MASTER CONTROL VALVE	25	7	3.30	PSI
1.50	FLOW SENSOR	25	8	1.00	PSI
2.00	ISOLATION VALVES (BALL TYPE)	25	9	1.00	PSI
2.00	520 FEET OF MAINLINE: CL. 315 PVC	25	10	2.81	PSI
	X,XXX FEET OF MAINLINE: CL. 315 PVC		11	0.00	PSI
	X,XXX FEET OF MAINLINE: CL. 315 PVC		12	0.00	PSI
2.00	4 - 90 DEGREE ELBOWS	25	13	0.24	PSI
1.50	REMOTE CONTROL VALVE ASSEMBLY	25	14	3.30	PSI
10%	LATERAL LINE LOSSES	25	15	3.00	PSI
20%	FITTING LOSS (IN ADDITION TO ELBOWS SHOWN)	N/A	16	0.56	PSI
0.00	ELEVATION CHANGE (P.O.C. TO HIGHEST HEAD)	N/A	17	0.00	PSI
TOTAL SYSTEM PRESSURE LOSS (SUM OF #1 THRU #17)			18	17.2	PSI
PRESSURE REQUIRED AT HEAD (OPERATING PRESSURE)			19	30.0	PSI
TOTAL PRESSURE REQUIRED (SUM OF #18 AND #19)			20	47.2	PSI
STATIC WATER PRESSURE (FROM ABOVE)			21	57.0	PSI
RESIDUAL PRESSURE (SUBTRACT #20 FROM #21)			22	9.8	PSI
SET PRV OR MCV AT (#20 PLUS 10 PSI)			23	N/A	PSI
PRESSURE BOOST, IF REQUIRED (SET TO ACHIEVE 20 PSI RESIDUAL)			24	N/A	PSI

VALVE CALLOUT LEGEND



FOR DRIP TUBING ZONES

1,750' TUBING — LENGTH OF DRIP TUBING

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NOTE A:
POINT OF CONNECTION (POC) SHALL BE A CONNECTION DOWNSTREAM OF A 1 1/2" RECYCLED WATER METER WITH A 6" SERVICE LINE. THE CONTRACTOR SHALL VERIFY THE ACTUAL LOCATION, WATER TYPE, METER SIZE AND WATER PRESSURE IN THE FIELD PRIOR TO STARTING WORK. MEASUREMENT OF THE STATIC (NO WATER MOVING) WATER PRESSURE IS ACCEPTABLE FOR POTABLE WATER SYSTEMS WHERE NO PUMP HAS BEEN INDICATED ON THESE PLANS. WHEN USING RECYCLED WATER, OR ON POTABLE WATER SYSTEMS REQUIRING A PUMP, ONLY THE MEASUREMENT OF DYNAMIC (WATER MOVING THROUGH THE METER) WATER PRESSURE, SHALL BE ACCEPTABLE. THE DYNAMIC WATER PRESSURE SHALL BE MEASURED AT THE MAXIMUM SYSTEM DEMAND AS INDICATED BELOW. IF ANY OF THE POC INFORMATION SHOWN ON THESE DRAWING IS FOUND TO BE DIFFERENT THAN THE ACTUAL POC INFORMATION GATHERED IN THE FIELD, IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT AND IRRIGATION CONSULTANT. SHOULD THE CONTRACTOR FAIL TO VERIFY THE POC INFORMATION AS SHOWN HEREIN, ANY CHANGES REQUIRED BY LOW PRESSURE OR VOLUME SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

MIN. WATER PRESSURE REQUIRED AT POC:	57	PSI (STATIC / DYNAMIC)
DESIGN WATER PRESSURE:	47	PSI
MAXIMUM SYSTEM DEMAND:	25	GPM
RESIDUAL WATER PRESSURE:	10	PSI

NOTE B:
CONTROLLER SHALL BE OF THE BRAND, MODEL AND STATION SIZE AS INDICATED ON THE IRRIGATION MATERIALS LEGEND. THE CONTROLLER SHALL BE INSTALLED IN THE APPROXIMATE LOCATION SHOWN. THE CONTRACTOR SHALL COORDINATE THE REQUIRED ELECTRICAL POWER SUPPLY AT THIS LOCATION WITH THE OWNER'S AUTHORIZED REPRESENTATIVE. FINAL LOCATION OF CONTROLLER AND ELECTRICAL POINT OF CONNECTION SHALL BE CONFIRMED WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE C:
THESE PLANS ARE DIAGRAMMATIC, THE MAINLINE AND RELATED IRRIGATION EQUIPMENT IS SHOWN WITHIN THE PAVING FOR CLARITY ONLY. THE ACTUAL LOCATION OF MAINLINE AND RELATED IRRIGATION EQUIPMENT SHALL BE WITHIN PLANTER AND A MINIMUM OF 18" OFF ADJACENT HARDSCAPE AND OTHER OBSTACLES, TYPICAL.

NOTE D:
THESE PLANS ARE DIAGRAMMATIC, TREE BUBBLERS AND LATERAL LINES ARE SHOWN WITHIN THE PAVING FOR CLARITY ONLY, THE ACTUAL LOCATIONS SHALL BE WITHIN THE PLANTER. THE TREE BUBBLERS SHALL BE ALIGNED WITH TREES AS SHOWN ON THE PLANTING PLANS, AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE. THE CONTRACTOR SHALL CONFIRM ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE E:
LATERAL LINE PIPING WITHIN BUILDING SHALL BE A TYPE K COPPER AND IS SHOWN FOR CLARITY ONLY, ACTUAL DESIGN AND ROUTING SHALL BE COMPLETED BY PLUMBING ENGINEER AND INSTALLED BY PLUMBING CONTRACTOR. EACH STUB-OUT WITHIN EACH PLANTER SHALL HAVE A COPPER FEMALE ADAPTER FOR THE LANDSCAPE CONTRACTOR CONNECTION. ALL PIPING THROUGH BUILDING TO EXTERIOR AND THROUGH BUILDING TO UPPER FLOOR SHALL BE PROVIDED BY PLUMBER.

0' 10' 20' 40' 60' 100' NORTH

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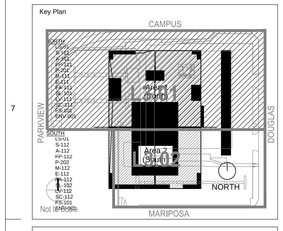
Key Plan



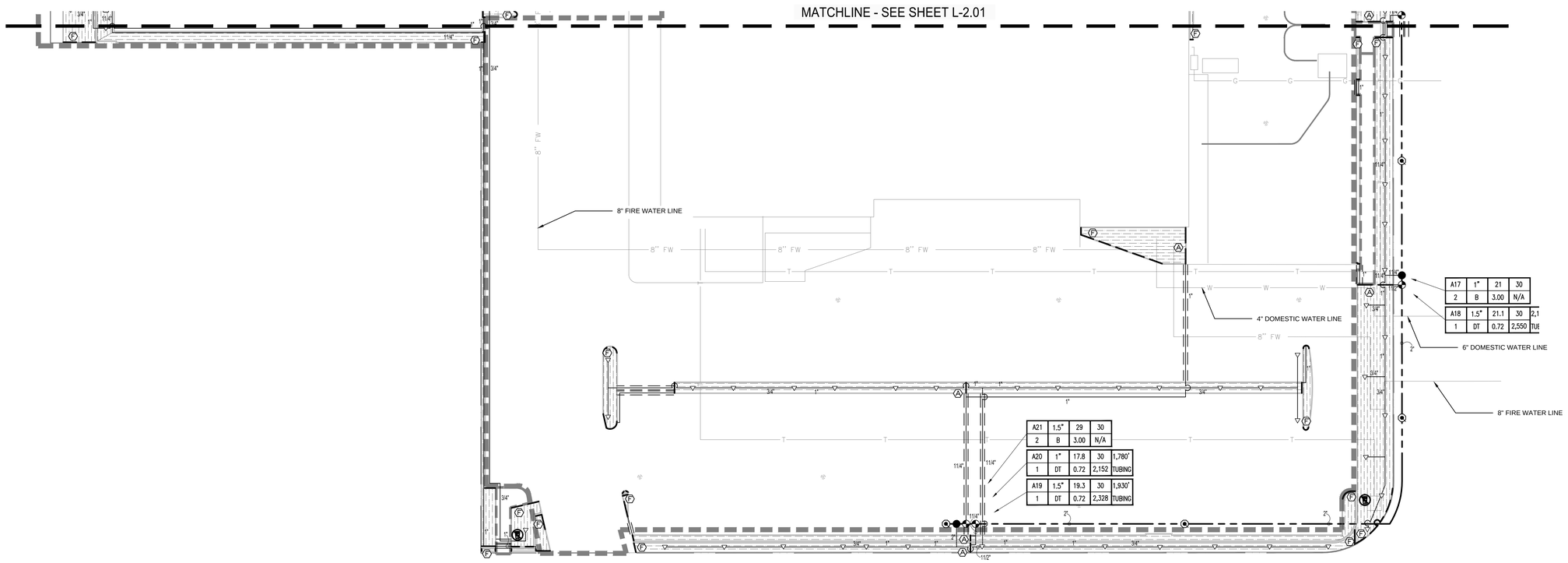
Sheet Title

IRRIGATION PLAN

Project Number: PLAN
CAD File: 114028_L201.dwg

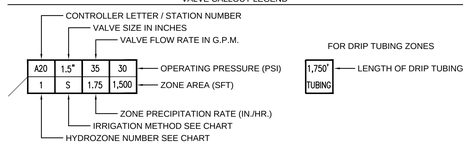
Sheet Number

L-201



MARIPOSA STREET

VALVE CALLOUT LEGEND



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NOTE B:
CONTRACTOR SHALL ADJUST ALL HEADS AS REQUIRED TO ACCOMMODATE ANY VERTICAL OBSTRUCTIONS THAT MAY OCCUR IN THE LANDSCAPE, INCLUDING BUT NOT LIMITED TO LIGHT POLES, FIRE HYDRANTS, TREES, ETC. WHEN A SLIGHT RELOCATION OF THE HEAD IS NOT SUFFICIENT TO CLEAR THE OBSTACLE, OR IF IT NEGATIVELY AFFECTS THE COVERAGE, AN ADDITIONAL HEAD SHALL BE INSTALLED TO PLACE ONE HEAD ON EITHER SIDE OF THE OBSTACLE. THE NOZZLES OF THESE TWO HEADS SHALL HAVE ARC PATTERNS THAT ADD UP TO THE ORIGINAL ARC PATTERN OF THE HEAD INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY ALL HEAD LAYOUT WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE C:
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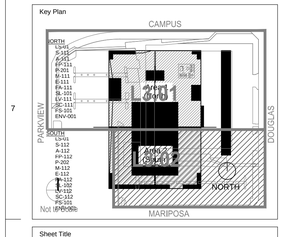


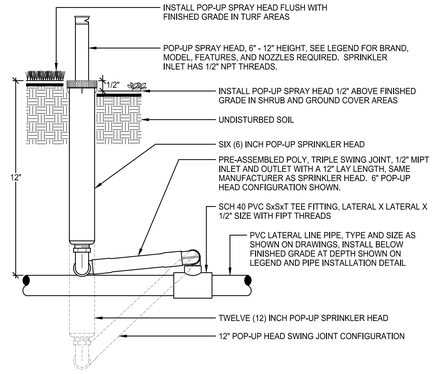
Sheet Title

IRRIGATION PLAN

Project Number: 2014-015
CAD File: 114028_L202.dwg

Sheet Number

L-202

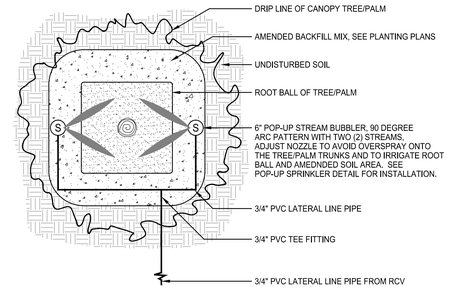


NOTE:
INSTALL SPRAY HEADS 4" FROM PAVING EDGE IN TURF AREAS.
INSTALL SPRAY HEADS 6" FROM PAVING EDGE IN SHRUB AND GROUND COVER AREAS.
INSTALL SPRAY HEADS 12" FROM THE FACE OF BUILDING WALLS OR WINDOWS.

INSTALL SPRAY HEADS PLUMB. ADJUST NOZZLE STREAM TO COVER THE LANDSCAPE AREA WITHOUT OVERSPRAY ONTO PAVING, FENCES, WALLS OR BUILDINGS.

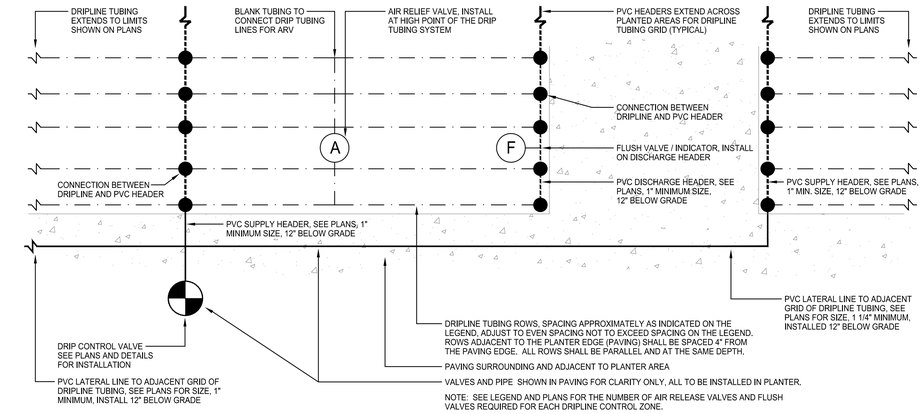
SECTION VIEW - N.T.S.

A POP-UP SPRINKLER HEAD



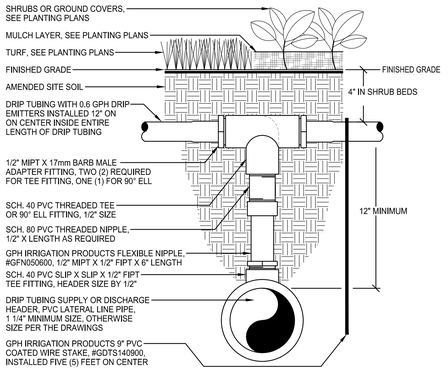
PLAN VIEW - N.T.S.

B TREE BUBBLER LAYOUT



PLAN VIEW - N.T.S.

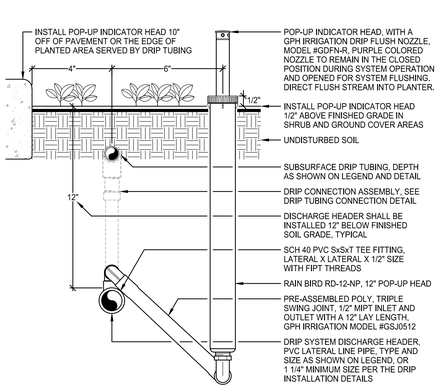
C DRIP ZONE LAYOUT



NOTE:
DRIP TUBING CONNECTION REQUIRED FOR ALL CONNECTIONS BETWEEN DRIP TUBING AND PVC HEADERS.
FOR CONNECTIONS AT END RUNS OF TUBING, USE A 90° ELL FITTING AND ONE ADAPTER FITTING FOR CONNECTION.
FOR CONNECTIONS IN THE MIDDLE OF RUNS OF TUBING, USE A TEE FITTING AND TWO ADAPTER FITTINGS FOR THE CONNECTION.

SECTION VIEW - N.T.S.

D DRIP CONNECTION

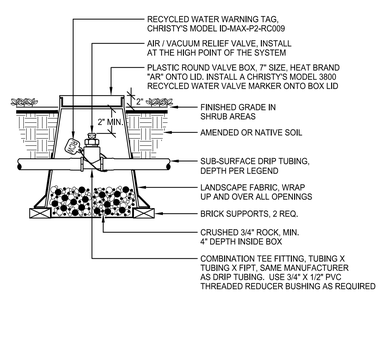


NOTE:
INSTALL INDICATOR HEAD 10" FROM THE EDGE OF PAVING OR THE PLANTER EDGE.

INSTALL PURPLE COLORED INDICATOR NOZZLE ON POP-UP HEAD AND ADJUST TO FULLY CLOSED.

SECTION VIEW - N.T.S.

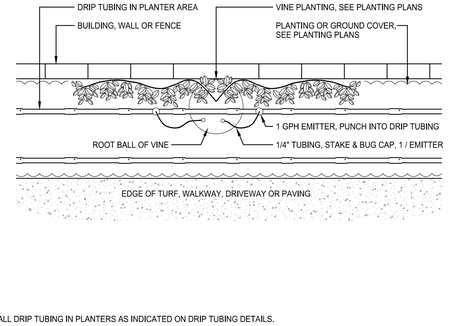
E FLUSH VALVE / INDICATOR



NOTE:
USE STANDARD OPENINGS PROVIDED IN VALVE BOX FOR PIPE, DO NOT CUT BOX.
USE SCH 80 PVC 45 DEGREE ELLS TO ACHIEVE MAINLINE DEPTH AS REQUIRED.

SECTION VIEW - N.T.S.

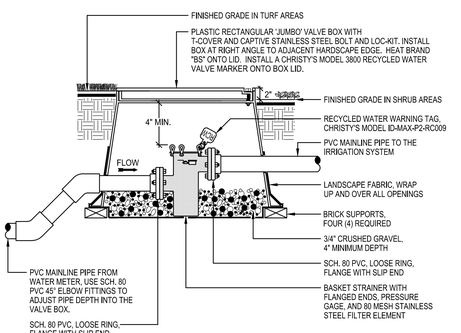
F DRIP AIR RELIEF VALVE



NOTE:
1. INSTALL DRIP TUBING IN PLANTERS AS INDICATED ON DRIP TUBING DETAILS.
2. FOR EACH VINE, INSTALL TWO (2) ADDITIONAL 1.0 GPH DRIP EMITTERS TO PROVIDE ADDITIONAL WATER TO THE VINE.
3. PUNCH EMITTERS DIRECTLY INTO THE DRIP TUBING, MINIMUM 3" FROM INTERNAL EMITTERS.
4. USE 1/4" DRIP TUBING, 24" MAXIMUM PER EMITTER, TO DIRECT WATER FROM EMITTER ONTO THE TOP OF THE ROOT BALL OF THE VINE PLANT.
5. INSTALL A PLASTIC TUBING STAKE AND A BUG CAP ONTO THE END OF EACH LENGTH OF 1/4" TUBING FROM THE EMITTER. STAKE 1/4" TUBING DOWN TO THE SOIL GRADE USING WIRE TUBING STAKES, INSTALL STAKES 12" ON CENTER.

PLAN VIEW - N.T.S.

G VINE EMITTERS



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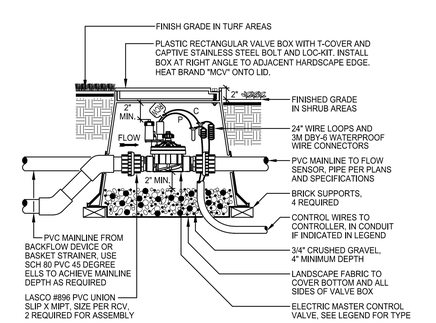
H BASKET STRAINER



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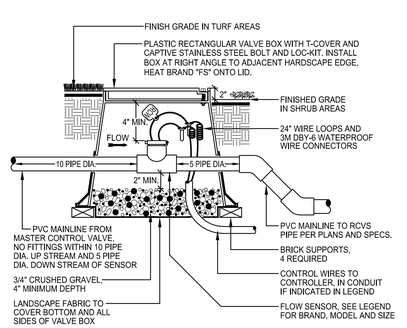
I MASTER CONTROL VALVE



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SECTION VIEW - N.T.S.

J FLOW SENSOR

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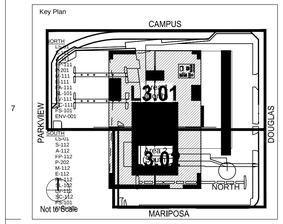

Sheet Title

IRRIGATION DETAILS

Project Number 2014-015

CAD File 114028_L251.dwg

Sheet Number

L-251

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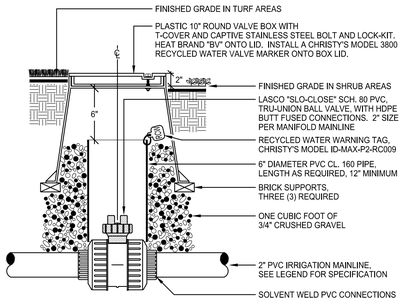
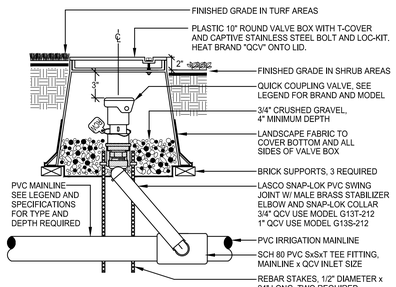


NOTE:
PROVIDE ONE (1) 30" LONG STEEL "VALVE KEY" FOR EACH TEN (10) BALL VALVES INSTALLED ON THE PROJECT.

SECTION VIEW - N.T.S.

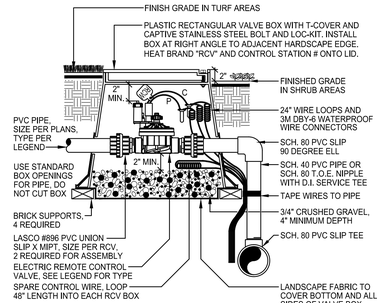
K BALL VALVE



NOTE:
USE AN APPROVED, NON-HARDENING, TEFLON ASSEMBLY PASTE ON ALL THREADED FITTINGS.

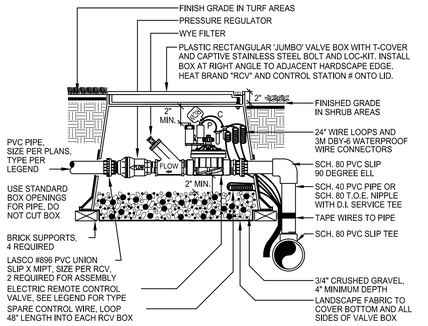
SECTION VIEW - N.T.S.

L QUICK COUPLER VALVE



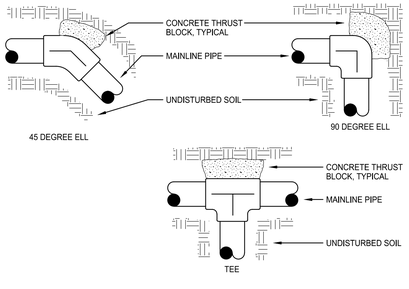
SECTION VIEW - N.T.S.

M REMOTE CONTROL VALVE



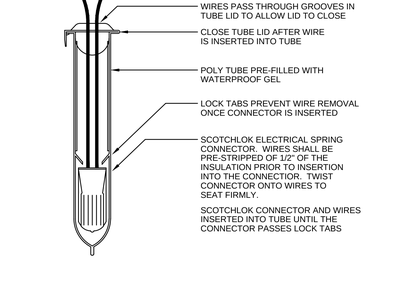
SECTION VIEW - N.T.S.

N DRIP REMOTE CONTROL VALVE



SECTION VIEW - N.T.S.

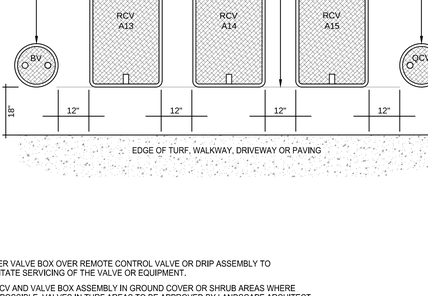
O CONTROLLER INSTALLATION



NOTE:
A MINIMUM OF ONE GROUND ROD SHALL BE INSTALLED PER CONTROLLER. SEE LEGEND, DETAILS AND SPECIFICATIONS FOR ADDITIONAL GROUNDING REQUIREMENTS.

SECTION VIEW - N.T.S.

P CONTROLLER GROUNDING



PIPE SIZES	A	B	C	D
SIZES 3/4" TO 2 1/2"	12"	18"	18"	4"
SIZES 3" AND 4"	18"	24"	24"	4"
SIZES 6" AND LARGER		30"	24"	6"

SECTION VIEW - N.T.S.

Q PIPE INSTALLATION

PIPE SIZES	A	B	C	D
ALL SIZES UNDER PEDESTRIAN PAVING	12"	24"	24"	4"
ALL SIZES UNDER VEHICULAR PAVING	24"	36"	36"	6"

NOTE:
SLEEVES SHALL BE TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE CARRIED WITHIN, EXCEPT WHEN USING BELL AND GASKET PIPING WHERE MAINLINE SLEEVES SHALL BE 2.5 TIMES THE SIZE OF THE PIPE.

SLEEVES SHALL EXTEND 12" PAST THE EDGE OF PAVING INTO THE PLANTER.

SECTION VIEW - N.T.S.

R SLEEVE INSTALLATION

NOTE:
THRUST BLOCKS TO BE 1 CUBIC FT OF CONCRETE
WRAP PLASTIC FITTINGS USING BLACK PIPE TAPE
ALL CONCRETE TO BE PORTLAND CEMENT 420-C-2000

PLAN VIEW - N.T.S.

S THRUST BLOCKING

NOTE:
WIRE CONNECTOR SHALL BE A 3M DBR/Y-6 DIRECT BURY SPLICE KIT (U.L. APPROVED).

KIT SHALL INCLUDE A SCOTCHLOK Y SPRING CONNECTOR, A POLYPROPYLENE TUBE AND A WATERPROOF SEALING GEL. TUBE SHALL BE SUPPLIED PREFILLED WITH GEL.

DIRECT BURY SPLICE KIT SHALL BE USED TO ELECTRICALLY CONNECT 2 - 3 #14 OR 2 #12 PRE-STRIPPED COPPER WIRES. LARGER WIRES OR GREATER QUANTITIES OF WIRES SHALL REQUIRE A LARGER APPROVED WIRE CONNECTION.

SECTION VIEW - N.T.S.

T WIRE CONNECTOR

NOTE:
1. CENTER VALVE BOX OVER REMOTE CONTROL VALVE OR DRIP ASSEMBLY TO FACILITATE SERVICING OF THE VALVE OR EQUIPMENT.
2. SET RCV AND VALVE BOX ASSEMBLY IN GROUND COVER OR SHRUB AREAS WHERE EVER POSSIBLE. VALVES IN TURF AREAS TO BE APPROVED BY LANDSCAPE ARCHITECT.
3. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO ADJACENT PAVING EDGE.
4. AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOXES TO PREVENT THE COLLAPSE AND / OR DEFORMATION OF VALVE BOXES.
5. BOX LOCATIONS SHALL BE STAKED IN THE FIELD PRIOR TO MAINLINE INSTALLATION FOR REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT.

NOTE:
VALVE BOXES SHALL BE INSTALLED IN SHRUB AND GROUND COVER AREAS. NO VALVES SHALL BE INSTALLED IN TURF AREAS WITHOUT PRIOR APPROVAL BY THE LANDSCAPE ARCHITECT.

PLAN VIEW - N.T.S.

U VALVE BOX LAYOUT

I HAVE COMPLIED WITH THE CRITERIA OF THE IRRIGATION GUIDELINES AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN

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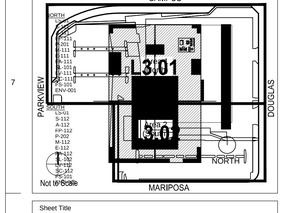
Professional Seal

No.	Description	Date
1	50% Design Development	11/07/2014
2	75% DD Pricing Package	12/12/2014
3	Plan Check	09/18/2015
4	SCE Submission	10/02/2015
5	Back-Check #1	11/20/2015
6	Back-Check #2 - ASI 008	01/08/2016
7	Issued for Construction - ASI 010	01/22/2016

Key Plan



Sheet Title

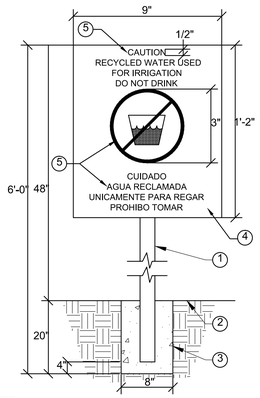
IRRIGATION DETAILS

Project Number
2014-015

CAD File
114028_L252.dwg

Sheet Number

L-252

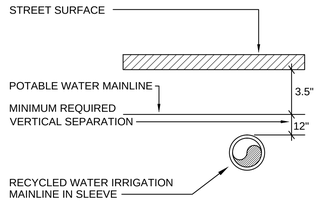


NOTE:
1. TWO MINIMUM PER SITE

DESIGN NOTES:
1. 2" SQ. ALUMINUM TUBE PAINTED TO MATCH FRAZEE "ORANGE PEAL"
2. FINISH GRADE
3. CONCRETE FOOTER
4. 9"x14"x1/8" ALUMINUM PAINTED TO MATCH PURPLE PMS #266
5. HP WHITE VINYL GRAPHICS

SECTION VIEW - N.T.S.

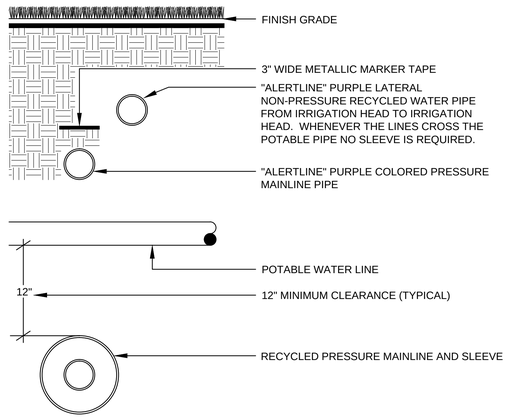
V RECYCLED WATER SIGNAGE



NOTE:
ALL RECYCLED WATER IRRIGATION PIPE AND SLEEVES SHALL BE PURPLE AND LABELED AS SPECIFIED IN THE "STANDARD SPECIFICATIONS FOR PRIVATE IRRIGATION SYSTEMS WATER DISTRICT" RULES AND REGULATIONS FOR CONSTRUCTION OF RECYCLED WATER MAINS OCTOBER 1993.

SECTION VIEW - N.T.S.

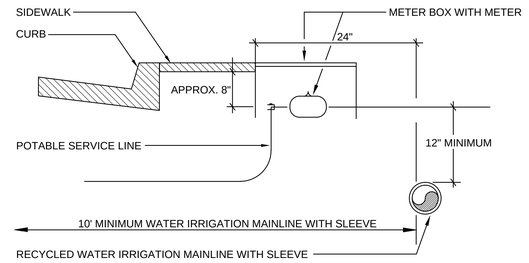
W POTABLE MAINLINE CROSSING



NOTE:
WHERE POTABLE LINES AND CONSTANT PRESSURE RECYCLED WATER LINES CROSS, THE RECYCLED LINES SHALL BE INSTALLED BELOW THE POTABLE LINE IN A CLASS 200 PURPLE COLORED PVC SLEEVE, THE SLEEVE SHALL EXTEND 5-FEET ON EITHER SIDE OF THE POTABLE LINE FOR A TOTAL OF 10 FEET.

SECTION VIEW - N.T.S.

X POTABLE MAINLINE CROSSING



NOTE:
VERTICAL CLEARANCE OF 12" MINIMUM IS MANDATORY WHEN CROSSING PATH OF A POTABLE WATER LINE. INSTALLATION OF RECYCLED WATER IRRIGATION MAINLINE 24" FROM FACE OF SIDEWALK WILL PROVIDE THE NECESSARY 10' HORIZONTAL CLEARANCE FROM THE POTABLE MAINLINE IN THE STREET.

SECTION VIEW - N.T.S.

Y POTABLE MAINLINE CROSSING

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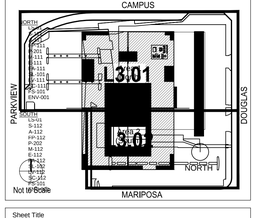

Sheet Title

IRRIGATION DETAILS

Project Number: 2014-015
CAD File: 114028_L253.dwg

Sheet Number

L-253

COUNTY OF LOS ANGELES - DEPARTMENT OF HEALTH SERVICES
PUBLIC HEALTH PROGRAMS AND SERVICES - ENVIRONMENTAL HEALTH
CROSS-CONNECTION & WATER POLLUTION CONTROL PROGRAM
5050 Commerce Drive, Rm 116, Baldwin Park, CA 91706

A GUIDE TO SAFE RECYCLED WATER USE, PIPELINE CONSTRUCTION AND INSTALLATION

INTRODUCTION: As a result of increasing availability of recycled water and the consequent need or desire for the transmission and use thereof, this Department has found it necessary to develop the following guidelines for recycled water
pipeline construction, installation and safe recycled water use for the protection of domestic water supplies and public health.

1. Recycled water shall meet requirements specified in "Water Reclamation Criteria": Title 22, Division 4, Chapter 3, Section 60301 through 60355 of the California Code of Regulations and regulations
and guidelines of the regulatory agencies.

2. Recycled water use shall be compatible with State Department of Health Services and Regional Water Quality Control Board requirements.

3. Plans and specifications for recycled water distribution, use and operational practices shall be submitted for review and approval to the County of Los Angeles Department of Health Services prior to
implementation.

4. Prior to commencing construction the Contractor shall contact the Los Angeles County Department of Health Services to arrange for inspection of all on-site recycled and potable water work. No excavation or open trench may be backfilled
without first securing Health Department approval. If any piping, recycled or potable, is installed prior to plan check approval and/or inspection, all or any portion of the system may be required to be exposed and corrected as necessary.

5. A Los Angeles County Department of Public Health approved temporary water connection to a potable water supply, via a dedicated, approved reduced pressure principle backflow prevention device, shall be utilized for the purposes of
flushing, pressure testing, construction uses, initial landscape use and the final cross connection pressure test.

6. SEPARATION - In order to minimize construction accidents resulting in pipeline breaks, infiltration of water from leaking water lines into domestic water lines, or accidental cross-connections between recycled water and potable water
systems, maximum attainable separation of recycled water lines and potable water lines shall be practiced.

- Parallel construction: there shall be at least a ten foot (10') separation, all distances measured from pipeline outside diameter.
- Cross-Over construction: As perpendicular as possible; one foot (1') separation, with potable above recycled; full pipe length centered over crossing.
- Alternate Cross-Over construction (distance not maintained): Either the potable or recycled water lines may be sleeved with the same class piping for one full pipe length (minimum ten feet) centered over the cross-over.
- The recycled water system shall be constructed in conformance with potable water system construction standards and in accordance with all other governing codes, rules and regulations.
- Unused or abandoned potable water lines are to be severed as close to water mains as practical, capped and a ten- foot section of abandoned line removed and cemented under Health Department supervision.

Existing On-site piping - To the extent feasible, maximum separation of recycled water and potable water lines shall be practiced upon system addition or modification.

7. IDENTIFICATION: - All recycled water lines (pressure/non-pressure), valve boxes, hydrants and appurtenances shall be identified to clearly distinguish between recycled water, non-potable and potable water systems.

- RECYCLED Water - All buried recycled water lines (pressure/non-pressure) shall be purple colored pipe with continuous wording "Caution Recycled Water" printed on opposite sides of the pipe.
- Projects utilizing extensive pipeline installation shall use purple pipe properly stenciled/labeled. For limited application, the use of continuous lettering on three inch (3") minimum width purple tape with one inch black or white contrasting
lettering bearing the continuous wording "Caution Recycled Water" permanently affixed at five foot intervals atop all horizontal piping, laterals and mains is an acceptable alternative to purple pipe, if purple pipe is unavailable in the
size required by the project design. Identification tape shall extend to all valve boxes and/or vaults, exposed piping, hydrants and quick couplers.
- POTABLE WATER - All potable water lines shall be installed in accordance with the California Plumbing Code and all other governing codes, rules and regulations. Buried potable water lines shall be identified by continuous
lettering on three inch (3") minimum width blue or green tape with one inch white lettering bearing the continuous wording "Potable Water" permanently affixed at five foot intervals atop all horizontal piping, laterals and mains.
Identification tape shall extend to all valve boxes and/or vaults, exposed piping and hydrants.
- Identification tape is not necessary for extruded colored PVC with continuous wording "Potable Water" printed in contrasting lettering on opposite sides of the pipe.
- NON-POTABLE WATER - All non-potable irrigation/industrial water lines (pressure/non-pressure) shall be identified by continuous lettering on three inch (3") minimum width tape with one inch contrasting lettering
bearing the continuous wording "Non-Potable Water" permanently affixed at ten foot intervals atop all horizontal piping, laterals, and mains. Identification tape shall extend to all valve boxes and/or vaults, exposed piping,
hydrants and quick couplers. Non-potable water is water supplied from the potable water system through an appropriate backflow preventer.
- Exposed piping, valve boxes, vaults, control valves, quick coupling valves, outlets and related appurtenances shall be color coded and labeled or tagged to differentiate between recycled water, potable water and non-potable water
systems, i.e.,
  i. "Caution Recycled Water Do Not Drink" in black or white contrasting lettering on a purple background.
  ii. "Potable Water" in white lettering on a blue background.
  iii. "Non-Potable Water - Do Not Drink" in contrasting lettering from the background.

  Tags shall be identified with the appropriate wording on both sides. Tags identifying recycled water shall have the appropriate wording on one side and symbol on the opposite side.

8. Aquifers shall be protected against contamination from recycled water infiltration via deteriorated or
inadequately protected water well casings by correcting these physical deficiencies. Recycled water shall not be sprayed on well pump installations and appurtenances. A fifty foot buffer is required around each water well.

9. An on-site water supervisor having the responsibility for the protection of the potable water system from cross-connections, shall be appointed as provided for under Title 17, Section 7586, California
Code of Regulations. The water
supervisor shall be responsible for installation, operation, and maintenance of the recycled water and potable water systems, prevention of potential hazards, implementing these guidelines and coordination with the cross-connection
control program of the water purveyor and this Department. Authorizations for piping changes or additions to either the potable or recycled water systems shall be subject to review and approval by the water supervisor. The name and
position of this individual shall be reported to the water purveyor and the County of Los Angeles Department of Health Services.

10. As-built plans shall be prepared and updated as necessary by the user showing the location of recycled water and potable water system piping.

11. In areas of public access to recycled water systems, hose bibbs shall not be permitted in order to prevent the unauthorized use of recycled water. Quick-couplers are permissible in lieu of hose bibb
outlets and shall only be connected to
recycled water lines. All QC shall be of differing size from qc used on potable water fed systems. In areas not accessible to the public, hose bibbs may be permitted provided they are properly identified with permanently affixed tags, labels,
or plates with the wording "Recycled Water - Do Not Drink" in English and symbol.

12. Exposure of drinking fountains and picnic tables to direct recycled water spray shall be minimized by a combination of selective location of such equipment and by appropriate irrigation system design.
- Recycled water spraying shall be done in hours of least public exposure.
- Areas where recycled water is released, used or impounded shall be posted (e.g., RECYCLED WATER - DO NOT DRINK), to inform the public that recycled water is being used.
- Irrigation practice shall be controlled to prevent surface runoff of recycled water from lands owned or controlled by the user

13. Dual plumbed facilities:
- An engineering report shall be submitted to both Los Angeles County and State of California Public Health Departments for review in addition to the project plan submittal.
- All recycled water supply lines shall be barbershop wrapped with labeling clearly marked.
- Backup supply from a domestic source shall consist of a tank which is properly air gapped.
- All control valves on recycled system shall be tamper proof by the use of seals.
- Separate recycled water meters may be required; one dedicated for irrigation and the other for internal use.

14. BACKFLOW PROTECTION
- There shall be no interconnection between the Potable Water System and the Recycled Water System within the user's premises. An approved backflow device is required on all domestic water and fire water systems.
- A pressure test must be utilized to confirm the physical separation of the recycled and potable water systems. Said testing shall be performed in conjunction with the Water Purveyor and this Department and conducted before the
introduction of recycled water.
- Contact the local water purveyor regarding required backflow protection at the potable water service connection(s) to recycled water use sites.
- In order to maintain the water quality in a recycled water distribution system a backflow prevention device(s) may be required at the recycled water meter or at specific on-site locations where said use could degrade the quality of the
recycled water supply.

15. Water Supervisor
- All designated recycled water supervisors shall provide proof of training in the use of recycled water, the maintenance of the site under their care and code compliance as outlined by County and State regulations for the proper use of
recycled water systems.

1. TESTING AND INSPECTION

NOTIFY THE IOR 24 HOURS IN ADVANCE OF THE PRESSURE SIDE PIPING INSPECTION.

PRESSURE SIDE PIPING: AFTER ALL WELDED JOINTS HAVE CURED FOR AT LEAST 24 HOURS, ALL LINES FLUSHED AND OUTLETS ARE CAPPED, THE SYSTEM SHALL BE TESTED UNDER NORMAL STREET WATER PRESSURE FOR A MINIMUM OF 4 HOURS. ALL JOINTS SHALL REMAIN EXPOSED FOR INSPECTION DURING THE PRESSURE TEST. CENTER LOADING OF PIPING WITH SMALL LOADS OF SAND BACKFILL TO PREVENT ARCHING OR SLIPPING UNDER PRESSURE IS PERMITTED.

CORRECT ALL DEFECTIVE WORK AND REPEAT TESTS UNTIL THE ENTIRE SYSTEM IS TESTED WATERTIGHT.

SUBMIT A REQUEST FOR A FINAL INSPECTION 48 HOURS IN ADVANCE. PERFORM A COVERAGE TEST TO DETERMINE IF THE COVERAGE OF WATER TO TURF AND PLANTING AREAS IS COMPLETE AND ADEQUATE AS REQUIRED.

FINAL INSPECTION: THE FOLLOWING ITEMS SHALL BE CONSIDERED PART OF THE FINAL INSPECTION:
1. ALL SPECIFIED PRODUCTS AND MATERIALS.
2. IRRIGATION COVERAGE TEST, PROVIDING 100% COVERAGE WITHIN DRIP AREAS.
3. SOILS COMPACTED IN TRENCHES AND AROUND SPRINKLER HEADS, LEVEL WITH EXISTING GRADES.
4. CONTROLLER AND CABINET INSTALLATION.
5. SPRINKLER CONTROL VALVES AND BOXES.
6. BACKFLOW DEVICES, PRESSURE REGULATORS, PUMPS.
7. AUTOMATIC SENSORS.
8. FINAL SITE REVIEW SHALL INCLUDE OPERATING EACH SYSTEM IN ITS ENTIRETY IN THE PRESENCE OF THE LANDSCAPE ARCHITECT.
9. PROVIDE ANY REQUIRED ADJUSTMENTS AND CORRECT DEFECTIVE WORK AS REQUIRED.

3. RECORD DOCUMENTS

BEFORE CONTRACT COMPLETION, PROVIDE PROJECT RECORD DOCUMENTS AS FOLLOWS:

CONTROL DIAGRAMS: SUBMIT THREE CONTROLLER CHARTS, WITH ONE COPY LAMINATED IN PLASTIC, FOR EACH CONTROLLER.

CONTROLLER CHART SHALL BE A REDUCED DRAWING OF THE SECTION OF THE RECORD DRAWINGS THAT PERTAIN TO EACH INDIVIDUAL CONTROLLER AND SHALL FIT INSIDE THE CONTROLLER HOUSING WITH A MAXIMUM SIZE FOR READABILITY.

CONTROLLER CHART SHALL BE A C.A.D. PRINT WITH DIFFERENTIATING PASTEL OR TRANSPARENT COLORS APPLIED TO INDICATE AREA OF COVERAGE FOR EACH NUMBERED STATION.

INDICATE THE LOCATION OF EACH NUMBERED SPRINKLER CONTROLLED VALVES AND QUICK COUPLING VALVES WITH LEGIBLE DIMENSIONS FROM TWO PERMANENT POINTS OF REFERENCE SUCH AS BUILDING CORNERS OR SIDEWALKS.

THE CONTROLLER CHARTS SHALL INDICATE ALL REMOTE CONTROL VALVES, QUICK COUPLERS, CONTROLLERS, FLOW SENSORS AND MASTER VALVES, BACKFLOW DEVICES, POINT OF CONNECTIONS, AND SPRINKLER HEAD MANUFACTURER AND TYPE OF SPRINKLERS FOR EACH ZONE. EACH ZONE SHALL BE COLORED DIFFERENTLY.

CLOSEOUT SUBMITTALS-AS BUILT:

SUBMIT THREE (3) COPIES OF AS BUILT INCLUDING COMPLETE LIST OF MATERIALS, MANUFACTURER'S NAME, AND PRODUCT INSTALLATION LITERATURES.

RECORD DRAWINGS: SUBMIT DIMENSIONED DRAWINGS AND DETAILS, BEFORE CONTRACT COMPLETION.

RECORD DRAWINGS SHALL CONTAIN THE FOLLOWING:

AS-BUILT SHALL BE COMPUTER GENERATED (C.A.D.)

PRINT SHALL SHOW THE LOCATIONS OF THE NUMBERED REMOTE CONTROL VALVES, MANUAL CONTROL VALVES, LOCATIONS AND SIZE OF ALL SUPPLY AND LATERAL LINES, LOCATION AND TYPE OF ALL SPRINKLER HEADS, QUICK COUPLING VALVES, GATE VALVES, BACKFLOW DEVICES, POINT OF CONNECTIONS, CONTROLLERS AND ALL OTHER RELATED EQUIPMENT.

DIMENSIONS SHALL BE LEGIBLE FROM TWO PERMANENT POINTS OF REFERENCE SUCH AS BUILDINGS AND SIDEWALKS.

DRAWINGS SHALL BE 24 INCHES X 36 INCHES MINIMUM SIZE.

OPERATION AND MAINTENANCE MANUALS:

PROVIDE COMPLETE OPERATING AND MAINTENANCE INSTRUCTION MANUALS FOR ALL EQUIPMENT.

PROVIDE IN WRITING AS PART OF THE WATER MANAGEMENT PROGRAM THE CONTROLLER SETTINGS FOR WATER UNDER BEST MANAGEMENT PRACTICES NO. 5 HANDBOOK FOR ALL SEASONS. THIS SERVICE SHALL BE PERFORMED BY A CERTIFIED WATER AUDITOR AND PAID BY THE CONTRACTOR. THIS REPORT SHALL IDENTIFY DESIGNED CONTROLLER SETTING FOR WATER DISCHARGE AND ACTUAL INSTALLED DISCHARGED TESTED. THE AUDIT REPORT SHALL ALSO INCLUDE THE STATUS OF ITEMS INDICATED IN SECTION 1.07.C OR THIS SPECIFICATION BASED ON FINAL INSPECTION AND TESTING.

4. WATER AUDIT AND MAINTENANCE SCHEDULE

THE CONTRACTOR WILL CONDUCT AN IRRIGATION AUDIT USING A CERTIFIED IRRIGATION AUDITOR, AFTER THE FINAL FIELD OBSERVATION HAS BEEN COMPLETED AND ALL IRRIGATION COMPONENTS ARE INSTALLED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND THE IRRIGATION SYSTEM IS ACCEPTED BY THE PROJECT ARCHITECT FOR MAINTENANCE.

THE IRRIGATION AUDIT WILL BE CONDUCTED IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:

1. PLACE FLAGS AT EACH HEAD IN THE ZONE
2. MEASURE SPACING AND MARK MID POINTS BETWEEN HEADS.
3. PLACE WATER MEASURING RECEPTACLES.
4. TAKE READINGS OF WATER LEVEL IN RECEPTACLES AND RECORD RESULTS.
5. MEASURE HEAD PRESSURE IN EACH ZONE AND RECORD RESULTS.
6. AFTER COMPLETING ZONE ADVANCE TO NEXT ZONE AND REPEAT PROCEDURE.
7. SUBMIT THE RESULTS OF THE AUDIT TO THE PROJECT ARCHITECT.

CONTROLLER CABINET - OPEN CABINET AND CLEAN OUT DEBRIS AND REPLACE BATTERY AS NECESSARY. CHECK WIRING AND REPAIR AS NEEDED AND CHECK CLOCK AND RESET IF NECESSARY.
FREQUENT: QUARTERLY

IRRIGATION SCHEDULE - ADJUST SCHEDULE FOR SEASONAL VARIATIONS AND OTHER CONDITIONS WHICH MAY AFFECT THE AMOUNT OF WATER NEEDED TO MAINTAIN PLANT HEALTH ADJUST AS NECESSARY.
FREQUENT: MONTHLY

POC - VISUALLY INSPECT COMPONENTS FOR LEAKS, PRESSURE SETTINGS, SETTLEMENT OR OTHER DAMAGE AFFECTING THE OPERATION OF A COMPONENT. REPAIR AS NEEDED.
FREQUENT: QUARTERLY

REMOTE CONTROL VALVES, ISOLATION VALVES AND QUICK COUPLER VALVES - VISUALLY INSPECT FOR LEAKS, SETTLEMENT, WIRE CONNECTIONS AND PRESSURE SETTINGS. REPAIR OR ADJUST AS NEEDED.
FREQUENT: QUARTERLY

MAINLINE & LATERALS - VISUALLY INSPECT FOR LEAKS OR SETTLEMENT OF TRENCH.
FREQUENT: QUARTERLY

SPRINKLERS - VISUALLY CHECK FOR ANY BROKEN MISALIGNED OR CLOGGED HEADS, HEADS WITH INCORRECT ARC, INADEQUATE COVERAGE OR OVERSPRAY AND LOW HEAD DRAINAGE. REPAIR AS NEEDED.
FREQUENT: WEEKLY

FILTERS AND STRAINERS - VISUALLY CHECK FOR LEAKS, BROKEN FITTING, CLEAN AND FLUSH SCREENS.

AUDIT SHALL BE IN ACCORDANCE WITH THE LATEST STATE OF CALIFORNIA LANDSCAPE WATER MANAGEMENT PROGRAM AS DESCRIBED IN THE LATEST LANDSCAPE IRRIGATION AUDITOR HANDBOOK. THE LANDSCAPE IRRIGATION AUDITS TO BE CONDUCTED BY A QUALIFIED INDIVIDUAL AND THE AUDIT SCHEDULE SHALL BE CONDUCTED AT LEAST ONCE EVERY FIVE YEARS IN ACCORDANCE WITH THE REQUIREMENTS OF TITLE 20, DIVISION 1 OF THE LOS ANGELES COUNTY CODE.

I HAVE COMPLIED WITH THE CRITERIA OF THE IRRIGATION GUIDELINES AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN

sweeney + associates
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Professional Seal

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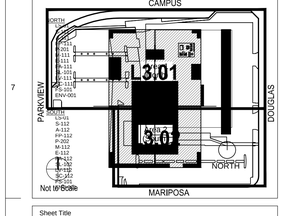
Key Plan



Sheet Title

IRRIGATION NOTES

Project Number	CAD File
2014-015	114028_L254.dwg

Sheet Number

L-254

PLANTING NOTES:

A. TREE LOCATIONS MAY BE ADJUSTED TO AVOID CONFLICTS WITH UNDERGROUND UTILITIES. CONSULT WITH LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO ADJUSTMENT OF TREE LOCATIONS, ESPECIALLY THOSE ARRANGED ON A SPECIFIED MODULE OR IN A GRID PATTERN.

B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT, LANDSCAPE ARCHITECT, OR THE ENGINEER, PRIOR TO THE START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED.

C. ALL TREES LOCATED WITHIN 3' OF PAVEMENT OR STRUCTURES ARE TO HAVE ROOT CONTROL BARRIERS INSTALLED AT TIME OF PLANTING. UNLESS OTHERWISE SPECIFIED, A 12' LONG X 18" DEEP LINEAR BARRIER SHALL BE INSTALLED AT EDGE OF PAVEMENT/STRUCTURE, WITH LENGTH CENTERED AT THE TREE TRUNK.

D. NURSERY STAKES ARE TO BE REMOVED AFTER PLANTING TREES AND STAKING OR GUYING AS SHOWN ON PLANS.

E. CONTRACTOR IS RESPONSIBLE FOR PRUNING TREES AS DIRECTED BY LANDSCAPE ARCHITECT. NO PRUNING IS TO BE DONE UNLESS DIRECTED.

F. MULCH ALL AREAS (EXCEPT TURF, SLOPES 2:1 AND GREATER, AND AS NOTED ON PLANS) WITH 3" LAYER OF SPECIFIED MATERIAL. AREAS PLANTED WITH FLATTED MATERIAL ARE TO HAVE A 2" LAYER OF MULCH.

G. SEE DETAIL FOR PLACEMENT OF SHRUBS IN IRREGULARLY SHAPED PLANTING AREAS.

H. WHERE GROUNDCOVER IS SHOWN ON PLANS: GROUNDCOVER PLANTING CONTINUES UNDER SHRUBS & TREES AT SPECIFIED SPACING. DO NOT PLANT GROUNDCOVER IN SHRUB/TREE WATERING BASINS.

I. ALL LANDSCAPING SHALL BE LOW PROFILE AROUND PERIMETER FENCING, WINDOWS, DOORS AND ENTRYWAYS.

J. BUSHES SHALL BE TRIMMED TO 2TO 3 FEET AND AWAY FROM BUILDINGS.

K. TREES SHALL BE TRIMMED UP TO 7 FEET.

NOTES

1. SITE SHALL BE IRRIGATED WITH RECLAIMED WATER AND SHALL MEET AB1881 CRITERIA.
2. SOIL PREP PER AGRONOMIC SOILS TEST RECOMMENDATIONS. INSTALL ORGANIC MULCH 3" DEEP IN ALL PLANTERS.
3. SEE SHEET L-200 FOR ENLARGED EXTERIOR COURTYARD.
4. ~~PLANT 15 GALLON VINES AT 36" O.C. ALONG ENTIRE LENGTH OF PERIMETER METAL FENCE.~~

TREE LEGEND:

SYMBOL	BOTANICAL NAME "COMMON NAME"	SIZE (HTxSPR)	ESTIMATED QUANTITY	REMARKS	DETAIL REFER.
	TRISTANIA CONFERTA "BRISBANE BOX"	24" BOX (9'X3')	44	STANDARD	X X
	PRUNUS CERASIFERA 'ATROPURPUREA' "PURPLE LEAVED PLUM"	36" BOX (12'X6')	12	STANDARD	X X
	CHILOPSIS LINEARIS "DESERT WILLOW"	24" BOX (9'X3')	15	15'–25' HEIGHT.	X X
	TIPUANA TIPU "TIPUANA TREE" – PARKING AREA	36" BOX (12'X6')	20	STANDARD	X X
	CERCIDIUM 'DESERT MUSEUM' "PALO VERDE TREE" – PARKING AREA	24" BOX (9'X3')	16	STANDARD	X X
	PODOCARPUS GRACILIOR "FERN PODOCARPUS"	48" BOX	1		X X

SHRUB, VINE, & GROUNDCOVER LEGEND:

SYMBOL	BOTANICAL NAME "COMMON NAME"	SIZE (HTxSPR)	QUANTITY	REMARKS	DETAIL REFER.
	AEONIUM 'ZWARTKOP' "PURPLE CREST AEONIUM"	5 GAL	XX	X X	X X
	BAMBUSA TEXTILIS "WEAVER'S BAMBOO"	15 GAL		FROM INSTANT JUNGLE INT. CONTACT ANDY BLANTON (714) 267–0154	X X
	LAVENDULA ANGYSTIFOLIA "ENGLISH LAVENDER"	5 GAL	XX	X X	X X
	LOMANDRA LONGIFOLIA "DWARF MAT RUSH"	5 GAL @ 24" O.C.	XX	X X	X X
	LOROPETALUM 'HINES PURPLE LEAF' "RED FRINGE FLOWER"	5 GAL	XX	X X	X X
	MUHLENBERGIA RIGENS "DEERGRASS"	5 GAL	XX	X X	X X
	PHORMIUM TENAX 'JACK SPRATT' "JACK SPRATT NEW ZEALAND FLAX""	5 GAL	XX	X X	X X
	RHAPIS EXCELSA "LADY PALM"	15 GAL		FROM INSTANT JUNGLE INT. CONTACT ANDY BLANTON (714) 267–0154	X X
	SASA VEITSCHII "KUMA BAMBOO GRASS"	5 GAL	XX	X X	X X
	STIPA TENUISSIMA "MEXICAN FEATHER GRASS"	1 GAL @ 18" O.C.	XX	X X	X X
	TURF	SOD	XX	ELITE	X X
	COBBLE PAVING "MEXICAN BEACH"	2"–3"	XX	X X	X X

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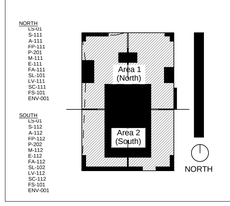


Sheet Title

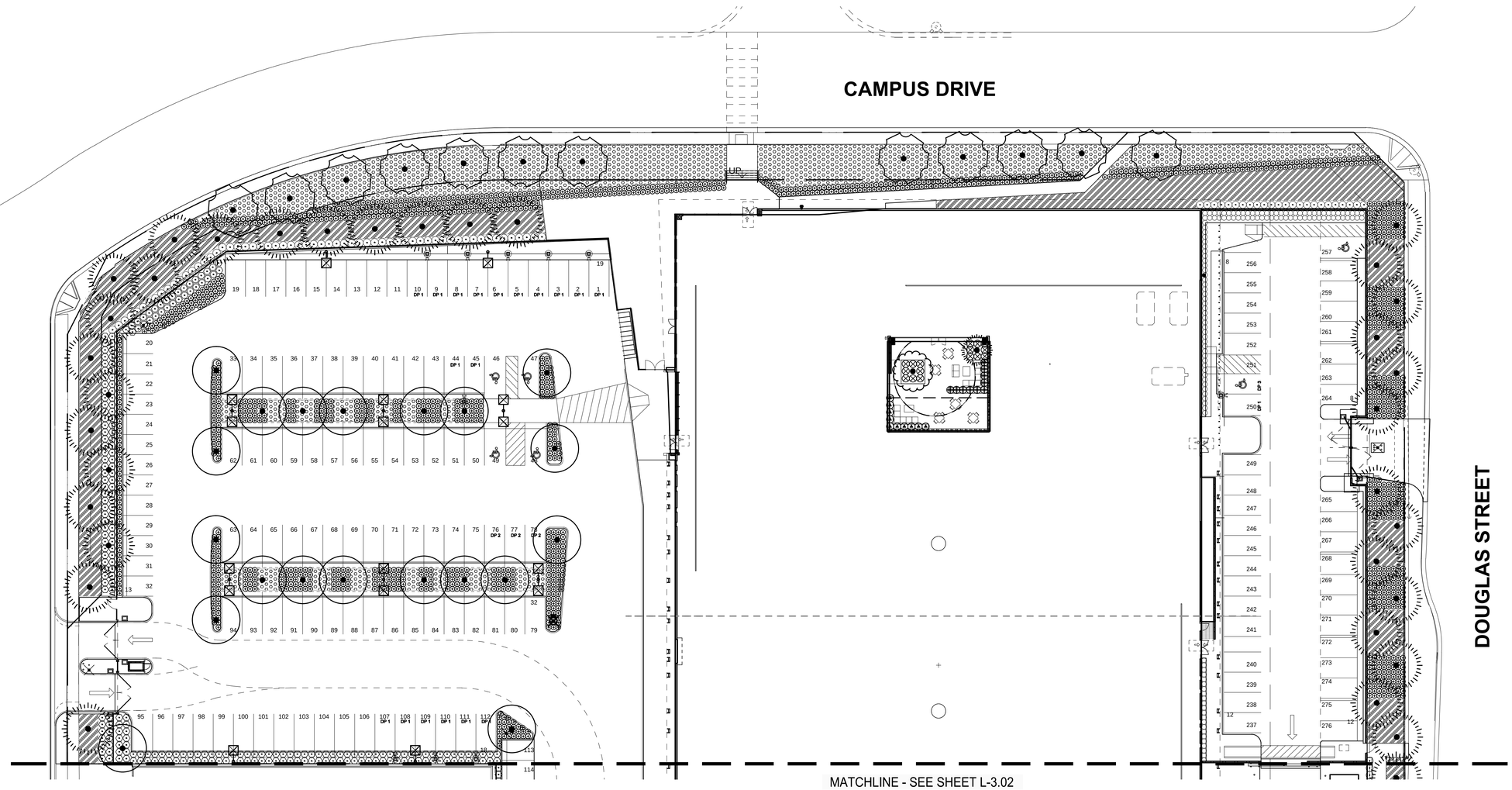
PLANTING
LEGEND AND NOTES

Project Number
2014-015

CAD File
114028_L300.dwg

Sheet Number

L-300



TREE LEGEND:

SYMBOL	BOTANICAL NAME "COMMON NAME"
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	PRUNUS CERASIFERA 'ATROPURPUREA' "PURPLE LEAVED PLUM"
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SYMBOL	BOTANICAL NAME "COMMON NAME"
	SASA VEITSCHII "KUMA BAMBOO GRASS"
	STIPA TENUISSIMA "MEXICAN FEATHER GRASS"
	TURF
	COBBLE PAVING "MEXICAN BEACH"

0' 10' 20' 40' 60' 100' NORTH

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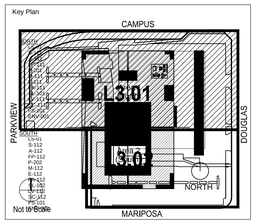
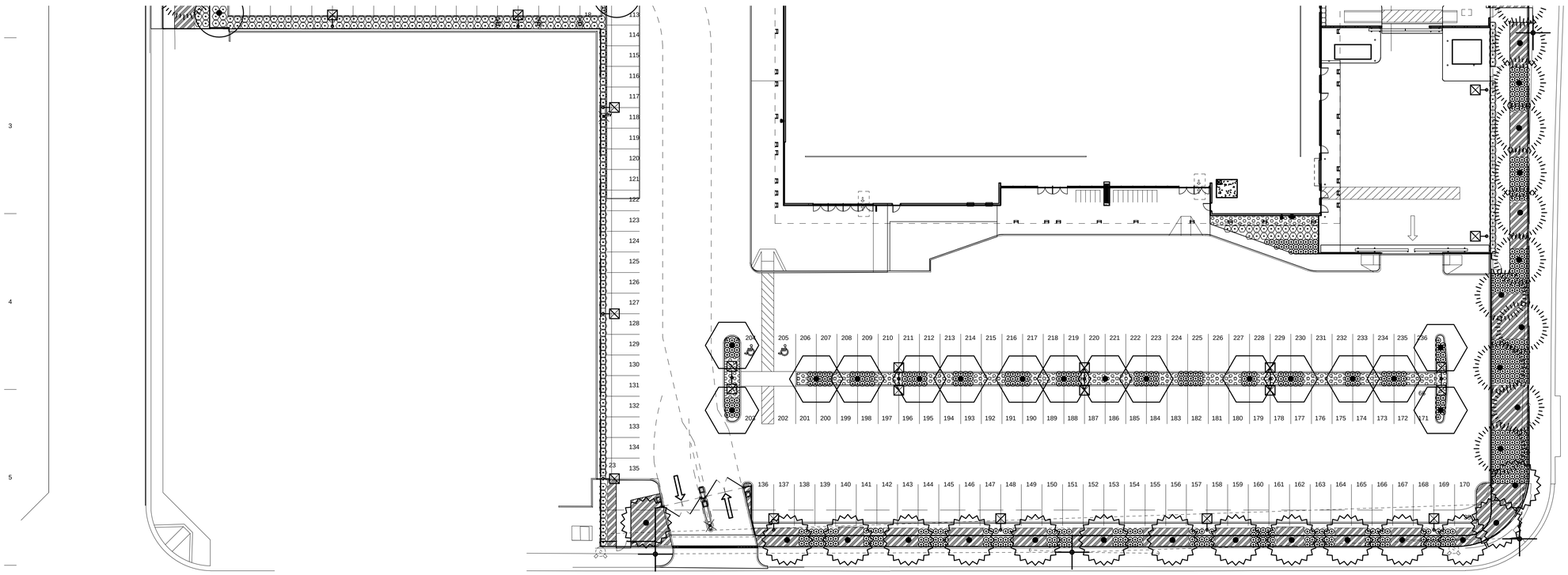


Sheet Title

LANDSCAPE PLANTING PLAN

Project Number: PLAN
CAD File: 114028_L301.dwg
Sheet Number: L-301

MATCHLINE - SEE SHEET L-3.01



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0' 10' 20' 40' 60' 100' NORTH

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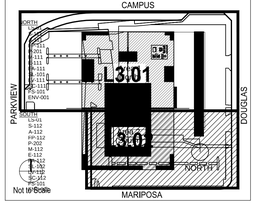


Sheet Title

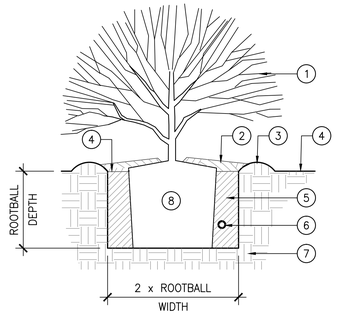
LANDSCAPE PLANTING PLAN

Project Number 2014-015

CAD File 114028_L302.dwg

Sheet Number

L-302

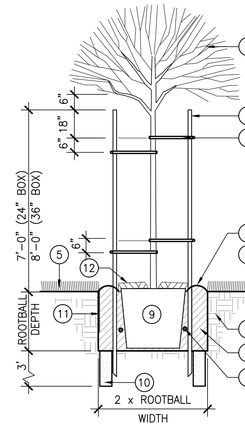


KEYNOTE LEGEND

1. SHRUB.
2. MULCH. SEE SPECIFICATIONS.
3. 3" HT WATERING BASIN.
4. FINISH GRADE.
5. AMENDED BACKFILL. SEE SPECIFICATIONS.
6. FERTILIZER TABLET. SEE SPECIFICATIONS.
7. SITE SOIL.
8. ROOTBALL. SET TOP OF ROOTBALL 2" ABOVE FINISH.

4 SHRUB PLANTING

SCALE: N.T.S. 32 90 00 SHRUB PLANTING.dwg

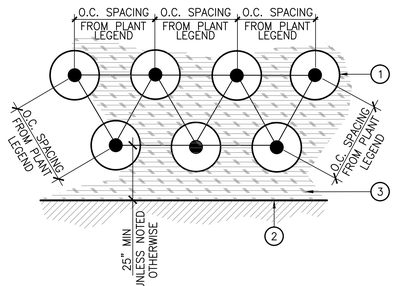


LEGEND

1. TREE-STREET TREES TO HAVE 7' CLEAR TRUNK.
2. LODGEPOLE PINE STAKE. 24" BOX TREES: 2" X 10'. 36" BOX TREES: 3" X 12'. TOP OF STAKE IS 6" CLEAR OF LOWEST TREE BRANCHES.
3. FLEXIBLE VINYL TREE TIE, 4/TREE.
4. 3" HT. WATERING BASIN.
5. ADJACENT PLANTING.
6. SITE SOIL.
7. PLANT FERTILIZER TABLET. SEE SPECIFICATIONS.
8. AMENDED BACKFILL. SEE SPECIFICATIONS.
9. ROOTBALL. PLANT SO TOP OF ROOTBALL IS 2" ABOVE FINISH GRADE.
10. DRAINAGE SUMP: 1-12" DIA. X 3' DEEP (24" OR SMALLER BOX) ; 2-12" DIA. X 3' DEEP (36" OR LARGER BOX). FILL W/ WASHED COARSE SAND.
11. ROOT CONTROL BARRIER PER PLAN AND NOTES. INSTALL PER MANUF. RECOMMENDATIONS.
12. MULCH.

1 TREE PLANTING IN PLANTING AREA

SCALE: N.T.S. 32 90 00 TREE - PLANTING AREA.dwg

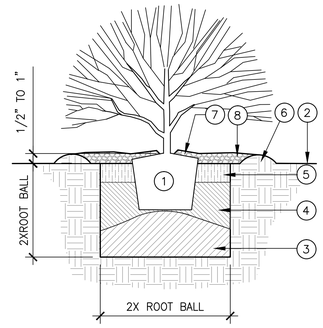


LEGEND

1. SHRUB/GROUNDCOVER - TRIANGULATED ROWS.
2. HARDSCAPE ELEMENT: CURB, WALK, ETC.
3. MULCH PER SPECIFICATIONS.

8 SHRUB/GROUNDCOVER SPACING

SCALE: N.T.S. 32 90 00 SHRUB-GC SPACING.dwg



NOTES

A. PRIOR TO ANY BACKFILLING, FILL PLANTING HOLE WITH WATER AND ALLOW TO PERCOLATE (DRAIN) INTO SUBSOIL.
B. AFTER PLANTING, WATER THOROUGHLY, FILL BASIN WITH WATER AND SPRINKLING AROUND TO SETTLE BACKFILL, MULCH AND BERM.
C. ALLOW TO SOAK IN AND REPEAT.

5 SHRUB PLANTING - NATIVE

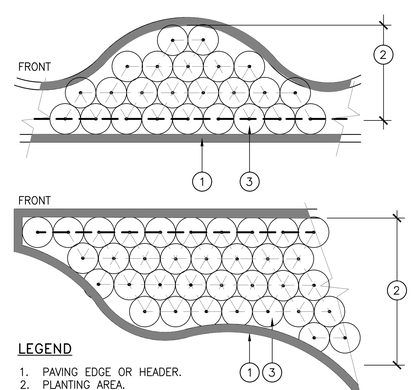
SCALE: N.T.S 32 90 00 SHRUB - NATIVE.dwg

LEGEND

1. ROOT BALL.
2. FINISH GRADE.
3. HALF-FILL THE HOLE WITH BACKFILL MATERIAL(SEE BELOW), MOISTEN AND MOUND SLIGHTLY.
4. PLACE PLANT ON MOUND. WITH WATER FLOWING SLOWLY FROM A HOSE INTO THE HOLE, BACKFILL TO 2/3 THE HEIGHT OF THE ROOT BALL; MOISTENING AND SETTLING ALL AROUND.
5. FILL REMAINING PORTION SURROUNDING THE TOP OF ROOT BALL WITH BACKFILL. TOP OF ROOTBALL TO BE 1" HIGHER THAN FG.
6. 3" HGT WATERING BASIN.
7. COVER ROOTBALL WITH 1" LAYER ORGANIC MULCH. KEEP 6" CLEAR OF TRUNK OR STEM.
8. 3" MULCH LAYER INSIDE BASIN AREA.

SOIL AMENDMENT

A. WHERE CUT OR NATIVE TOP SOIL IS PRESENT IN PLANTING AREAS, NO SOIL AMENDMENT SHALL BE USED. THE NATIVE SOIL SHOULD BE SOFT AND FRIABLE. ELIMINATE LARGE ROCKS AND CLODS.
B. BACKFILL MIX WHERE SOIL HAS BEEN IMPORTED: BLEND 1/3 COMPOSTED OR NITROLIZED FOREST HUMUS TO 2/3 SITE SOIL,
C. FERTILIZER:
   - SLOW RELEASE FERTILIZER TABS SHALL BE INCORPORATED WITH THE BACKFILL. TABS SHALL NOT TOUCH THE ROOT BALL.
   - A POST PLANT FERTILIZER, APPLICATION RATE SHALL BE LOWER THAN THOSE USED FOR GENERAL LANDSCAPE ORNAMENTALS.



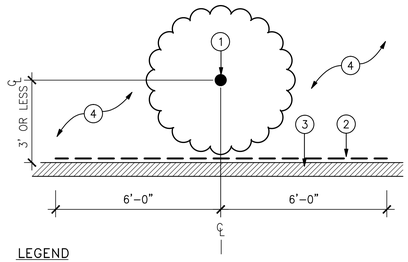
LEGEND

1. PAVING EDGE OR HEADER.
2. PLANTING AREA.
3. PLANT.

NOTE: PLANT @ SPACING SHOWN ON PLAN AND SPACING DETAIL.

9 PLANT LAYOUT @ IRREGULAR AREAS

SCALE: N.T.S. 32 90 00 SHRUB - IRREGULAR LAYOUT.dwg

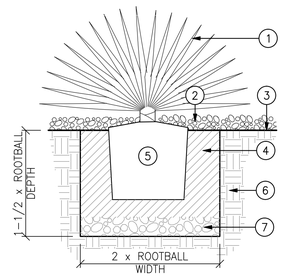


LEGEND

1. TREE TRUNK.
2. 12 LF OF 24"-DEEP ROOT CONTROL BARRIER: DEEPROOT UB-24 OR EQUIVALENT. CENTER BARRIER ON TRUNK OF TREE. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
3. HARDSCAPE ELEMENT: CURB, SIDEWALK, WALL, ETC.
4. PLANTING AREA

6 ROOT CONTROL BARRIER

SCALE: NTS 32 90 00 ROOT BARRIER.dwg



LEGEND

1. SUCCULENT SHRUB.
2. COBBLE LAYER. SEE PLANS.
3. FINISH GRADE
4. AMENDED BACKFILL:
   40% SITE SOIL
   20% PUMICE
   20% SHARP SAND
   20% ORGANIC AMENDMENTS
5. ROOTBALL. SET TOP OF ROOTBALL 2" ABOVE FINISH GRADE.
6. SITE SOIL.
7. 3" LAYER 1/2" TO 3/4" WASHED, CRUSHED ROCK.

3 SUCCULENT SHRUB PLANTING

SCALE: N.T.S. 32 90 00 SHRUB - SUCCULENT.dwg

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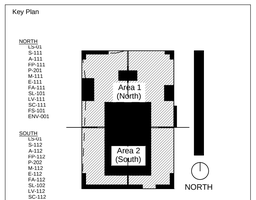

Sheet Title

LANDSCAPE PLANTING DETAILS

Project Number: 2014-015
CAD File: 114028_L351.dwg

Sheet Number

L-351