

IRRIGATION LEGEND

DRIP IRRIGATION

SYMBOL	MFR.	MODEL NUMBER	COLOR	DESCRIPTION	EMITTERS	GPH.	GPM.	PSL.	DETAIL
---	TORO	RGF-418	BLACK	DL2000 PRESSURE COMP. DRIPLINE w/ ROOTGUARD (FACTORY PRE-ASSEMBLED)	18" O.C.	1.02 GPH.	1.13 / 100'	15 - 60	H-1, H-11
---	TORO	T-EHD1645	BLACK	BLUE STRIPE BLANK DRIPLINE TUBING	USE AS NEEDED FOR AIR/VACUUM RELIEF LATERAL LINES				H-21
---	TORO	T-FT16		DRIPLINE ADAPTER TEE (1/2" FIPT x DRIPLINE)	FOR AREAS < 4 GPM., USE ONE PVC FILL RISER (EDGE FEED)				H-2
---	TORO	T-FT16		DRIPLINE ADAPTER TEE (1/2" FIPT x DRIPLINE)	FOR AREAS > 4 GPM., USE A PVC MAINFOLD OF FILL RISERS				H-12, H-13
---	TORO	T-FJ16		MANUAL FLUSH CAP (DRIPLINE x 3/4" MHT w/ CAF)					H-3
---	TORO	T-FJ16		MANUAL FLUSH CAP (3/4" FIPT w/ SCH. 40 PVC BALL VALVE (SLIP))	CAP ONLY; THE DRIPLINE INSERT FITTING IS NOT USED				H-15
---	TORO	T-YD-500-34		AIR VACUUM RELIEF VALVE (1/2" MIPT)	INSTALL IN #1-TF16 TEE IN A 6" ROUND VALVE BOX				H-20, H-21
---	TORO	T-DL-MP9		POP-UP OPERATION INDICATOR	INSTALL 1 ON EACH DRIPLINE ZONE, AT THE CONTROL VALVE				8/19/16

UNDERGROUND TREE BUBBLERS

RAIN BIRD	RWS-B-C-1401 w/ RWS SOCK	BUBBLER	REMARKS	20-90 PSI
SYMBOL	DESCRIPTION	NOZZLE	GPM	DETAIL
▽	PRE-ASSEMBLED DEEP ROOT WATERING SYSTEM	1401	0.25 (each)	F-53
INSTALL 2 RWS SYSTEMS FOR EACH TREE SYMBOL				4/5/16

DISTRIBUTION & CONTROL EQUIPMENT

SYMBOL	MFR.	MODEL NUMBER	DESCRIPTION	REMARKS	DETAIL
A	JOHN DEERE GREEN TECH	SA6-RM3-42 / FSF-100B / RSE RAINMASTER RAINMASTER	CONTROLLER ASSEMBLY 'A', CONSISTING OF: RME42EG-W FS-B100	STAINLESS STEEL TOP-ENTRY PEDESTAL ENCLOSURE 42 STATION WALL MOUNT CONTROLLER 1" FLOW SENSOR IN CAST BRONZE TEE (RPT X FIPT) INSTALL IN SEPARATE 12"x18" VALVE BOX, MAIN LINE SHALL BE 1" DIA. FOR 10' UPSTREAM & 5' DOWNSTREAM OF TEE. RAIN SENSOR ENCLOSURE MOUNTED ASSEMBLY	COA 515 COA 526
(no symbol)	JOHN DEERE	RSE	2 CONDUCTOR DIRECT BURIAL SHIELDED CABLE	FOR FLOW SENSOR TO CONTROLLER WIRE CONNECTION	COA 526
X	WILKINS	9730L	REDUCED PRESSURE BACKFLOW PREVENTER	2"	COA 512
	WILKINS	YB	BRONZE Y-STRAINER (THREADED)	2" INSTALL ON UPSTREAM LEG OF RP ASSEMBLY	COA 527
	BPTI	CGS-3	"COAST GUARDSHACK" BACKFLOW ENCLOSURE	STAINLESS STEEL, 40" L., 24" H., 10 W. (INSIDE DIMENSIONS)	COA 527
P	WILKINS	500XLG	PRV (25-75 PSI RANGE) w/ 0-100 PSI GAUGE	1/12", SETTINGS NOTED	D-3
S	SUPERIOR	3100	ELECTRIC MASTER VALVE (NORMALLY OPEN)	1-1/2"	COA 526
B	NIBCO	T-505	BRONZE BALL VALVE (THREADED)	LINE SIZE	COA 503
T	RAIN BIRD	PEB	0.25 GPM. TREE BUBBLER ZONE CONTROL VALVE	1", w/ FLOW CONTROL	A-21, E-10
1	RAIN BIRD TORO SENNINGER	PEB T-ALFD75150-L PRL-25	DRIPLINE ZONE CONTROL VALVE w/ FILTER & REGULATOR: DISC Y-FILTER PRESSURE REGULATOR	1", w/ FLOW CONTROL 3/4", 150 MESH, 0 - 25 GPM. 25 PSI @ 0.1 - 8 GPM., 3/4" FIPT	A-21, E-13
2	RAIN BIRD TORO SENNINGER	PEB T-ALFD10150-L PMP-M5-25	DRIPLINE ZONE CONTROL VALVE w/ FILTER & REGULATOR: DISC Y-FILTER PRESSURE REGULATOR	1", w/ FLOW CONTROL 1", 150 MESH, 0 - 35 GPM. 25 PSI @ 2 - 20 GPM., 3/4" FIPT	A-21, E-13
3	RAIN BIRD TORO SENNINGER	PEB T-ALFD10150-L PR-HF-25	DRIPLINE ZONE CONTROL VALVE w/ FILTER & REGULATOR: DISC Y-FILTER PRESSURE REGULATOR	1-1/2", w/ FLOW CONTROL 1", 150 MESH, 0 - 35 GPM. 25 PSI @ 10 - 32 GPM., 1-1/4" FIPT x 1" FIPT	A-21, E-13
4	RAIN BIRD	44 LRC	QUICK-COUPLING VALVE w/ YELLOW RUBBER COVER	FOR POTABLE WATER, 1", LOCKING COVER	COA 504 8/22/16

SYMBOL	MFR.	MODEL NUMBER	DESCRIPTION	REMARKS	DETAIL
---	(APPROVED)	SCH. 40 PVC	PRESSURE MAIN LINE (POTABLE WATER SOURCE)	FOR UNDERGROUND INSTALLATION; SIZES NOTED	COA 525
---	(APPROVED)	SCH. 40 PVC	NON-PRESSURE LATERAL LINE (POTABLE SOURCE)	FOR UNDERGROUND INSTALLATION; SIZES NOTED (3/4" MIN.)	COA 525
---	(APPROVED)	SCH. 40 PVC	NON-PRESSURE LATERAL LINE (POTABLE SOURCE)	3/4" FOR ALL TREE BUBBLER ZONE LATERAL LINES	COA 525
---	(APPROVED)	SCH. 40 PVC	MAIN LINE & LATERAL LINE SLEEVE	SIZE AS NOTED IN THE SLEEVE SYMBOL ON THE PLAN	COA 525
---	(APPROVED)	SCH. 40 PVC	LOW VOLTAGE CONTROL WIRE SLEEVE	SIZE AS NOTED IN THE SLEEVE SYMBOL ON THE PLAN	COA 525
---	(APPROVED)	SCH. 40 PVC	LATERAL LINE SLEEVE	SIZE: TWO TIMES THE SIZE OF THE LINE BEING SLEEVED	COA 525

SYMBOL	DESCRIPTION	REMARKS
W	WATER METER	2" POTABLE WATER METER (BY OTHERS) (WATER METERS ARE INSTALLED UNDER SEPARATE CONTRACT PER THE STREET and/or WATER IMPROVEMENT PLANS)
+	POINT OF CONNECTION (P.O.C.) FOR IRRIGATION SYSTEM	CONNECT TO OUTLET OF WATER METER. METER LOCATIONS ARE APPROXIMATE -- IRRIGATION CONTRACTOR SHALL VERIFY IN THE FIELD.
W	INDICATES CONTROL VALVE SIZE	
W	INDICATES CONTROLLER STATION NUMBER	
W	INDICATES FLOW IN GALLONS PER MINUTE	

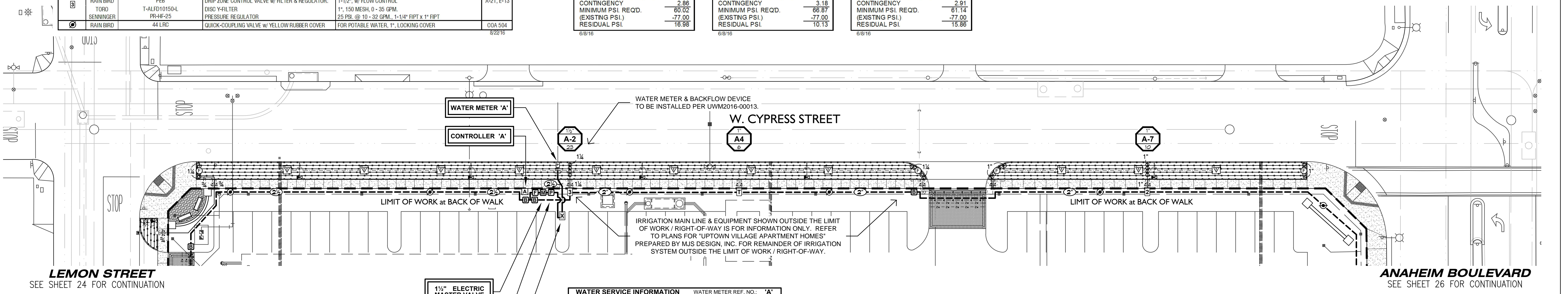
WHENEVER ANY ITEM OF "DISTRIBUTION & CONTROL EQUIPMENT" IS SIZED SMALLER THAN THE MAIN LINE OR LATERAL LINE PIPING ON WHICH IT IS PLACED, THE REDUCTION IN PIPE SIZE SHALL ONLY OCCUR AT THE THREADED FITTING WHICH ADAPTS THE PIPE TO THE PIECE OF EQUIPMENT.

FRICTION LOSS CALCULATION		FRICTION LOSS CALCULATION		FRICTION LOSS CALCULATION	
WATER METER REF. NO.:	A	WATER METER REF. NO.:	A	WATER METER REF. NO.:	A
VALVE STATION NO.:	A-11	VALVE STATION NO.:	A-12	VALVE STATION NO.:	A-21
HEAD / BUBBLER / EMITTER	25.00	HEAD / BUBBLER / EMITTER	25.00	HEAD / BUBBLER / EMITTER	25.00
ADV		ADV		ADV	
LATERAL LINE & FITTINGS	1.53	LATERAL LINE & FITTINGS	1.27	LATERAL LINE & FITTINGS	0.36
PRESSURE REGULATOR	5.00	PRESSURE REGULATOR	5.00	PRESSURE REGULATOR	5.00
FILTER	3.75	FILTER	5.75	FILTER	5.25
MIN. RCV PRV DIFFERENTIAL		MIN. RCV PRV DIFFERENTIAL		MIN. RCV PRV DIFFERENTIAL	
CONTROL VALVE	2.88	CONTROL VALVE	3.72	CONTROL VALVE	3.78
PRESSURE MAIN LINE	2.09	PRESSURE MAIN LINE	3.31	PRESSURE MAIN LINE	1.40
FLOW SENSOR	0.25	FLOW SENSOR	0.36	FLOW SENSOR	0.33
PRESSURE REDUCER	3.48	PRESSURE REDUCER	5.16	PRESSURE REDUCER	4.71
BACKFLOW PREVENTER	11.20	BACKFLOW PREVENTER	11.50	BACKFLOW PREVENTER	11.30
STRAINER / FILTER	0.20	STRAINER / FILTER	0.20	STRAINER / FILTER	0.20
WATER METER	0.80	WATER METER	1.40	WATER METER	1.20
SERVICE LINE	0.08	SERVICE LINE	0.15	SERVICE LINE	0.13
ELEVATION DIFFERENCE	1.30	ELEVATION DIFFERENCE	0.87	ELEVATION DIFFERENCE	-0.43
CONTINGENCY	2.86	CONTINGENCY	3.18	CONTINGENCY	2.91
MINIMUM PSI REQ'D. (EXISTING PSI.)	60.02	MINIMUM PSI REQ'D. (EXISTING PSI.)	66.87	MINIMUM PSI REQ'D. (EXISTING PSI.)	61.14
RESIDUAL PSI	-77.00	RESIDUAL PSI	-77.00	RESIDUAL PSI	-77.00
	16.98		10.13		15.86

WATER EFFICIENCY LANDSCAPE WORKSHEET

Reference Evapotranspiration (ETo):		49.20		ETAF: 0.55		Landscape Area Sector Type: Street Improve.			
Hydrozone # /Planting Description	Location	Plant Factor (PF)	Irrigation Method	Irrigation Efficiency (IE)	ETAF (PF/IE)	Landscape Area (sq. ft.)	ETAF x Area	Estimated Total Water Use (ETWU)	
Regular Landscape Areas									
1	Low Water Use shrubs	varies	0.20	Subsurface Drip	0.81	0.25	6,182	1,526	46,562
2	Moderate Water Use shrubs	varies	0.50	Subsurface Drip	0.81	0.62	568	351	10,895
3									
4									
5									
6									
					Average	Total	Total		
					0.28	6,750	1,877		
Average ETAF for Regular Landscape Areas (highlight one):							In Compliance	Not In Compliance	
Special Landscape Areas									
SLA-1						1			
SLA-2						1			
SLA-3						1			
Totals							Total Landscape Area	Site-wide ETAF	ETWU Total
							6,750	0.28	57,257
							Maximum Allowed Water Allowance (MAWA)		
							113,246		

Eto data for: Anaheim, CA
from: Landscape Water Efficiency Ord. Guidelines, 2/1/16, Appendix C 6/6/16



1 1/2" ELECTRIC MASTER VALVE

1 1/2" PRESSURE-REDUCING VALVE: SET TO 47 PSI WHEN ZONE A-12 IS OPERATING.

2" REDUCED PRESSURE BACKFLOW PREVENTER

WATER SERVICE INFORMATION WATER METER REF. NO.: 'A'

TYPE OF SOURCE: POTABLE
SERVICE LINE SIZE **: 2"
WATER METER SIZE **: 2"
(* PER STREET and/or WATER IMPROVEMENT PLANS)

METER ADDRESS: W. CYPRESS ST.
METER STATION POINT: APPROX. 12+02 W. CYPRESS ST.

EXISTING WATER PRESSURE: 77 PSI.
MINIMUM OPERATING PRESSURE: 67 PSI.
PEAK IRRIGATION DEMAND: 26 GPM.
IRRIGATED AREA: (6,750 SF.) 0.15 ACRES

THESE PLANS HAVE BEEN EXAMINED AND IS APPROVED ONLY AS TO COMPATIBILITY WITH ADJOINING EXISTING OR FUTURE IMPROVEMENTS AND CONFORMANCE WITH CITY OF ANAHEIM STANDARD DETAILS AND THE REQUIREMENTS FOR THE FOLLOWING APPLICABLE FACTORS: RIGHT-OF-WAY, ROADWAY MATERIALS, ALIGNMENTS AND GRADES, HYDROLOGY AND HYDRAULIC DESIGN OF STORMDRAIN OR SANITARY SEWER SYSTEMS AND UNDER GROUND CONDUIT OR OPEN CHANNEL CHANNEL ALIGNMENTS, GRADES, SIZES AND MATERIALS.

NOTE TO CONTRACTOR: THE EXISTENCE LOCATION OF ANY UNDERGROUND UTILITIES, PIPES, AND/OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL AS CERTAIN THE TRUE VERTICAL AND HORIZONTAL LOCATION AND SIZE OF THOSE TO BE USED OF ANY UNDERGROUND UTILITIES AND SHALL BE RESPONSIBLE FOR DAMAGE TO ANY PUBLIC OR PRIVATE UTILITIES AS SHOWN HEREON.

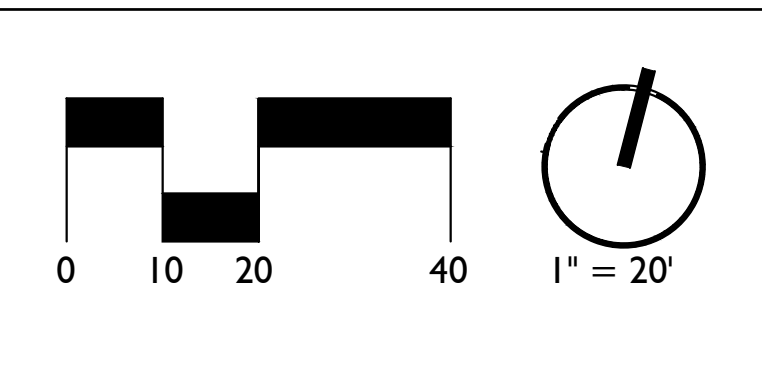
REVISIONS

NO.	INIT.	DATE	DESCRIPTION	DATE	APP'D

REFERENCES

BENCH MARK: 4A-31 ELEVATION: NAVD-88=159.08' NGVD-29=156.96'
LINCOLN AVE., LINCOLN AVE. & ANAHEIM BLVD. BRASS CAP MARKED CITY OF ANAHEIM. TOP OF CURB E.C.R. N.W. CORNER AS SHOWN ON CITY PLAN 18011 SHEET 1 OF 39.
PLANS FOR THESE IMPROVEMENTS:
STREET:
SEWER:
STORM DRAIN:
LANDSCAPE:
WATER: UWM 2016-00013

UNDERGROUND SERVICE ALERT
CALL TOLL FREE: 1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG



FOR IRRIGATION NOTES, SEE SHEET 24

LANDSCAPE ARCHITECT:

507 30th St.
Newport Beach, CA 92663
949.675.9964
mjs-la.com

RCP2016-11832

OWNER/DEVELOPER:
UPTOWN ANAHEIM APARTMENTS LLC
5790 FLEET STREET, SUITE 140
CARLSBAD, CA 92008
ATTN: TODD PHILLIPS
PHONE NO. (760)444-5213

FOR APPROVAL SEE PLAN RCP2016-11832

STREET IMPROVEMENT PLANS FOR UPTOWN ANAHEIM APARTMENTS

W. CYPRESS STREET FROM STA. 10+00.00 TO 15+30.43

CITY OF ANAHEIM

SHEET **25** OF **38**

PLAN NO. -

IRRIGATION PLAN

FOR CITY USE ONLY