CLARITY NOTE:

FOR GRAPHIC CLARITY THE EMITTERS HAVE NOT BEEN SHOWN VERIFY EMITTER COUNT WITH PLANT COUNT AND EMITTER SCHEDULE.

FOR GRAPHIC CLARITY THE SLEEVES HAVE NOT BEEN SHOWN. THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR ALL SLEEVES PER THE FOLLOWING SCHEDULE.

SLEEVING SCHEDULE:

WIRES 2" SCH. 40 PVC (QTY AS REQUIRED)
MAIN LINE 4" SCH. 40 PVC (OR DBL THE MAINLINE SIZE)
DRIP LATERAL 2" SCH. 40 PVC
TURF LATERAL 3" SCH. 40 PVC (OR DBL THE LATERAL LINE SIZE)

EMITTER SCHEDULE

PLANT SIZE	GA. PER HR.	EMITTER SIZE
36" BOX	6	(1) HUNTER MPE-20
24" BOX	4	(1) HUNTER MPE-20
15 GALLON	4	(1) HUNTER MPE-10
5 GALLON	1	(1) HUNTER HEB-10
1 GALLON	1	(1) HUNTER HEB-10

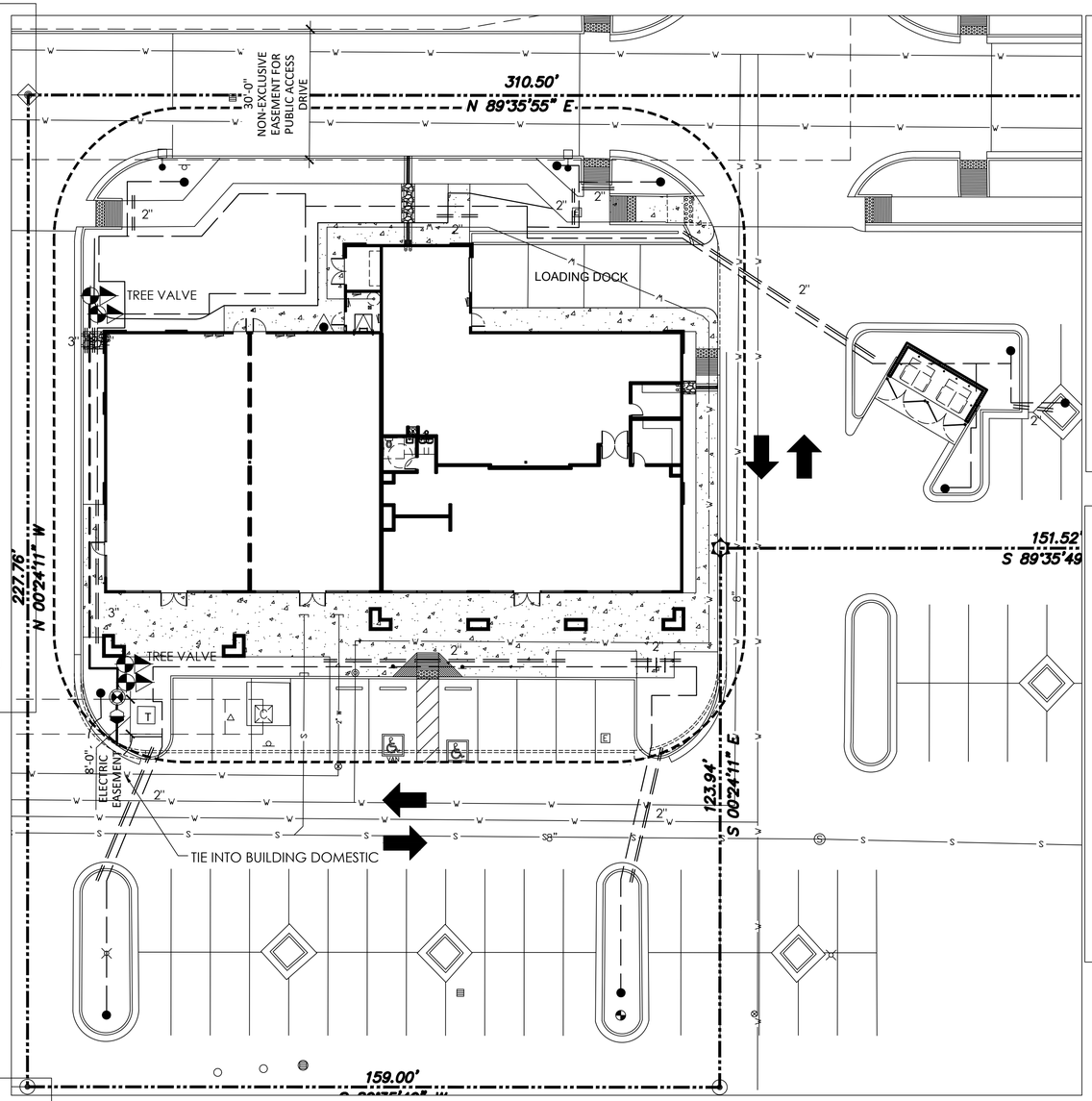
NOTES:

EMITTER SIZING AND QUANTITES MAY VARY DEPENDING ON SOIL TYPE AND CLIMATE CONDITIONS VERIFY PRIOR TO BID. ALL NON-METALIC WATER AND IRRIGATION PIPING LARGER THAN 2" REQUIRE MIN. 18 AWA INSULATED COPPER TRACER WIRE SUITABLE FOR DIRECT BURIAL

THE IRRIGATION CONTRACTOR MAY SUBSTITUTE (1) MULTI EMITTER FOR (6) SINGLE EMITTERS IN GROUND AREAS AS LONG AS DIST. TUBING DOES NOT EXCEED 5 FT

FOUNDATION NOTE:

NO END CAPS ARE TO BE PLACED WITHIN 15' OF ANY FOUNDATION OR FOOTING. ADJUST LAYOUT AS REQUIRED.
NO HIGH WATER USE, OR HIGH FLOW PRODUCTS ARE TO BE USED WITHIN 15' OF ANY FOUNDATION OR FOOTING. THE IRRIGATION IS TO BE MONITORED ON A REGULAR BASIS TO AVOID SOIL SATURATION AROUND FOUNDATIONS AND FOOTINGS. THIS IRRIGATION PLAN IS DIAGRAMATIC ADJUST LAYOUT AS REQUIRED.

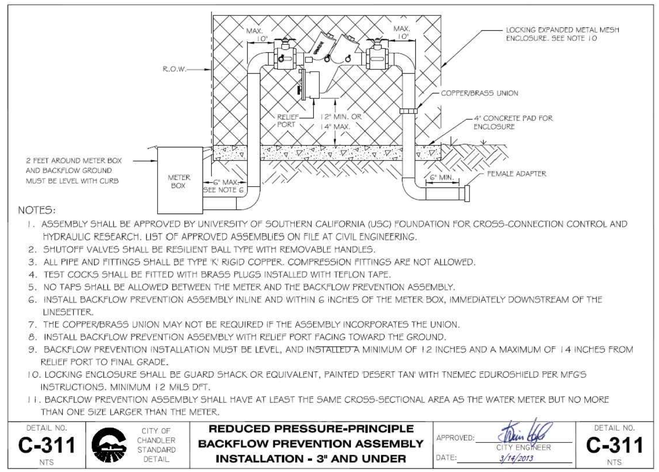


PIPE SCHEDULE

PIPE SIZE	GPM	PIPE CLASS
1/2"	0-5	315
3/4"	6-10	200
1"	11-15	200
1 1/4"	16-25	200
1 1/2"	26-35	200
2"	36-60	200

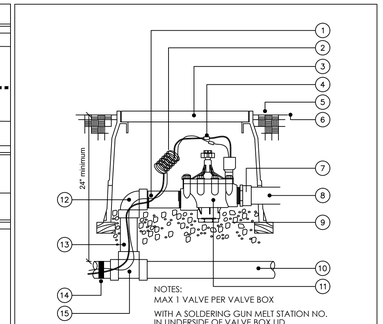
IRRIGATION LEGEND

- COMBO BUILDING AND LANDSCAPE METER (ALONG AZ AVE
- FEBCO 825-YA-1" R.P. ASSY. W/ GUARDSHACK CAGE PAINTED TO MATCH BUILDING
- HUNTER ICV-(SIZE PER MAINLINE) MASTER VALVE INSTALL IN VALVE BOX ADJACENT TO BACKFLOW
- HUNTER DRIP CONTROL ZONE KIT PCZ-101-25 (30gph to 600gph) (.5gpm to 10gpm) ICZ-101-25 (601gph to 1,200gph) (10gpm to 20gpm)
- HUNTER I-CORE-1C-600-M (MODULES AS REQUIRED) 6 STATION CONTROLLER (POWER PER GENERAL CONTRACTOR)
- NOT SHOWN FOR GRAPHIC CLARITY — HUNTER HEB-10 (1/2" THREADED) PRESSURE COMP. SINGLE PORT EMITTER; HUNTER MPE-(SIZE PER SCHEDULE) (1/2" THREADED) PRESSURE COMP. MULTI PORT EMITTER
- 1.5" MAINLINE (SCH40)
- CLASS 200-3/4" DRIP LATERAL LINE
- AG. PRODUCTS SELF FLUSHING ENDCAP (SEE FOUNDATION NOTE)
- SCH 40 PVC SLEEVE (SEE SLEEVING SCHEDULE)



NOTES:
1. ASSEMBLY SHALL BE APPROVED BY UNIVERSITY OF SOUTHERN CALIFORNIA (USC) FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH. LIST OF APPROVED ASSEMBLIES ON FILE AT CIVIL ENGINEERING.
2. SHUTOFF VALVES SHALL BE RESILIENT BALL TYPE WITH REMOVABLE HANDLES.
3. ALL PIPE AND FITTINGS SHALL BE TYPE 'K' RIGID COPPER. COMPRESSION FITTINGS ARE NOT ALLOWED.
4. TEST COCKS SHALL BE FITTED WITH BRASS PLUGS INSTALLED WITH TEFLON TAPE.
5. NO TAPS SHALL BE ALLOWED BETWEEN THE METER AND THE BACKFLOW PREVENTION ASSEMBLY.
6. INSTALL BACKFLOW PREVENTION ASSEMBLY INLINE AND WITHIN 6 INCHES OF THE METER BOX, IMMEDIATELY DOWNSTREAM OF THE LINESETTER.
7. THE COPPER/BRASS UNION MAY NOT BE REQUIRED IF THE ASSEMBLY INCORPORATES THE UNION.
8. INSTALL BACKFLOW PREVENTION ASSEMBLY WITH RELIEF PORT FACING TOWARD THE GROUND.
9. BACKFLOW PREVENTION INSTALLATION MUST BE LEVEL, AND INSTALLED A MINIMUM OF 12 INCHES AND A MAXIMUM OF 14 INCHES FROM RELIEF PORT TO FINAL GRADE.
10. LOCKING ENCLOSURE SHALL BE GUARD SHACK OR EQUIVALENT, PAINTED 'DESERT TAN' WITH TNEMEC EDUROSHIELD PER MFG'S INSTRUCTIONS. MINIMUM 12 MILS DFT.
11. BACKFLOW PREVENTION ASSEMBLY SHALL HAVE AT LEAST THE SAME CROSS-SECTIONAL AREA AS THE WATER METER BUT NO MORE THAN ONE SIZE LARGER THAN THE METER.

DETAIL NO.			APPROVED: CITY ENGINEER	DETAIL NO.
C-311 NTS	CITY OF CHANDLER STANDARD DETAIL	REDUCED PRESSURE-PRINCIPLE BACKFLOW PREVENTION ASSEMBLY INSTALLATION - 3" AND UNDER	DATE: 3/14/2013	C-311 NTS

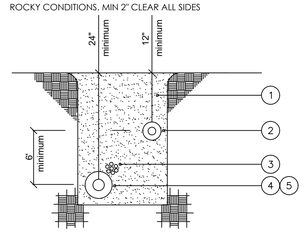


NOTES:
MAX 1 VALVE PER VALVE BOX
WITH A SOLDERING GUN MELT STATION NO. IN UNDERSIDE OF VALVE BOX LID

1. SCH. 80 PVC NIPPLE 6" LONG
2. #14 CONTROL WIRE
3. RECTANGULAR PLASTIC VALVE BOX WITH LOCKING LID
4. EPOXY WIRE CONNECTORS
5. 1" IN TURF AREAS. 2" IN D.G AREAS
6. FINISH GRADE
7. PVC MALE ADAPTER
8. PVC LATERAL LINE (SIZE PER PIPE SCHEDULE)
9. 6" DEPTH 3.8" PEA-GRAVEL WITH 1" CLEARANCE BETWEEN BOTTOM OF VALVE AND TOP OF PEA-GRAVEL
10. PVC MAINLINE PER MAINLINE
11. ELECTRIC CONTROL VALVE
12. PVC ELBOW
13. SCH 80 PVC
14. TAPE WIRES 8" O.C TO MAINLINE
15. PVC MAINLINE TEE OR ELBOW

CONTROL VALVE DETAIL
NOT TO SCALE

NOTES:
WATER SETTLE AND COMPACT ALL TRENCHES
ALL SLEEVES TO BE A MIN. OF 24" DEEP
USE COMMON TRENCHES WHEN POSSIBLE
RUN TRENCHES PARALLEL TO BUILDING'S AND WALKWAY'S
(THE PLAN MY BE DIAGRAMMATIC)
SHADE ALL PIPE AND WIRES WITH SAND IN
ROCKY CONDITIONS, MIN 2" CLEAR ALL SIDES



1. CLEAN BACK FILL NO ROCKS OVER 1/2" DIA.
2. LATERAL LINE SIZE PER PIPE SCHEDULE
3. CONTROLLER WIRES TAPE TO MAINLINE 8" O.C
4. MAINLINE SIZE PER PLAN
5. SLEEVE PER PLAN AND SCHEDULE

TRENCHING / SLEEVING DETAIL
NOT TO SCALE

NOTE: REGULATOR AND STRAINER TO BE IN A SEPARATE VALVE BOX FROM THE CONTROL VALVE. (AS SHOWN)

1. PRESSURE REGULATOR SENNINGER PMR-MF (UNLESS OTHERWISE NOTED)
2. RECTANGULAR VALVE BOX WITH LOCKING LID
3. "Y" STRAINER AG. PRODUCTS (UNLESS OTHERWISE NOTED)
4. 2' IN GRANITE AREAS
5. PVC MALE ADAPTER
6. 1" PVC CLASS 200 SUB MAINLINE FROM VALVE
7. 6" DEPTH OF 3.8" PEA GRAVEL
8. SCH 80 PVC NIPPLE 4" LONG
9. LATERAL LINE SIZE PER PIPE SCHEDULE

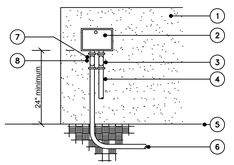
DRIP ASSEMBLY DETAIL
THIS DETAIL TO BE USED WITH CONTROL VALVE DETAIL
NOT TO SCALE

NOTES:
IN SLOPE CONDITIONS ALWAYS PLACE EMITTER ON HIGH SIDE OF SLOPE
1/4" DIST. TUBING IS NOT TO EXCEED 2" ABOVE GRADE

1. 1/4" DIST. TUBING MAX LENGTH 5'
2. LATERAL LINE FITTING W/ NIPPLE
3. EMITTER SEE LEGEND
4. PVC LATERAL LINE PIPE SIZE PER PIPE SCHEDULE
5. SALCO BUG CAP
6. FINISH GRADE
7. PVC TP PLOT FITTING
8. POLY TUBING 3' MAX LENGTH
9. 6" ROUND VALVE BOX
10. SELF FLUSHING CAP
11. 6" DEPTH OF 3.8" PEA-GRAVEL

EMITTER DETAIL
NOT TO SCALE

NOTES:
ALL WIRING INSTALLED PER LOCAL CODES
SEE CONTROLLER MANUAL FOR MOUNTING INSTRUCTIONS
THE IRRIGATION CONTRACTOR IS TO SUPPLY 2 KEYS, AND INSTRUCTION MANUAL TO OWNER



1. WALL OR BUILDING
2. WALL MOUNTED CONTROLLER
3. 1" JUNCTION BOX
4. 120v POWER AND GROUND SOURCE BY GENERAL CON. UNLESS OTHERWISE NOTED
5. FINISH GRADE
6. STEEL CONDUIT TO 18" POST SWEEP DIRECT BURIAL WIRES TO CONTROL VALVE
7. CONTROL WIRE CONNECTIONS
8. COMMON WIRE CONNECTIONS

CONTROLLER DETAIL
WALL MOUNTED
NOT TO SCALE

T.J. McQUEEN & ASSOCIATES, INC.
LANDSCAPE ARCHITECTURE
URBAN DESIGN
SITE PLANNING
10446 N. 74th Street , Suite 150
Scottsdale, Arizona 85258
P.(602)265-0320
EMAIL: timmcqueen@tjmla.net

1 **IRRIGATION PLAN**
SCALE: 1" = 20'-0"
0' 10' 20' 40'

NORTH

IRKAA ARCHITECTS INC
2233 EAST THOMAS ROAD, PHOENIX, ARIZONA 85016
602.955.5900
IRKAA.COM

DEVELOPMENT SERVICES DEPARTMENT PLANNING DIVISION
SITE DEVELOPMENT
City of Chandler APPROVED MAINTAIN ON JOB SITE
Teresa Richardson
1/10/2025, 8:15:59 AM
DS24-0178
Teresa Richardson

DATE : 11-30-23

ENLARGED SITE PLAN

NOTICE OF ALTERNATE BILLING OR PAYMENT CYCLE: THIS CONTRACT MAY ALLOW THE OWNER TO REQUIRE ON SOME ALTERNATIVE SCHEDULE AFTER CERTIFICATION AND APPROVAL OF BILLING AND BILLING CYCLES OTHER THAN THIRTY DAYS. THIS CONTRACT MAY ALLOW OWNER TO MAKE PAYMENT ON SOME ALTERNATIVE SCHEDULE AFTER CERTIFICATION AND APPROVAL OF BILLING AND BILLING CYCLE APPLICABLE TO THE PROJECT IS AVAILABLE FROM OWNER OR DESIGNATED AGENT.
NAME:
ADDRESS
ADDRESS
CONTACT: Name
PHONE:

NEW COMMERCIAL PAD
PAD 5b AT PASEO LINDO SHOPPING CENTER
NEC OF ARIZONA AVE AND OCOTILLO RD.
CHANDLER, AZ

SCHEMATIC LAYOUT

design by: RH
drawn by: RL
checked by: RH

La.02
project #: 23057