# IRRIGATION SCHEDULE

## IRRIGATION COMPONENTS

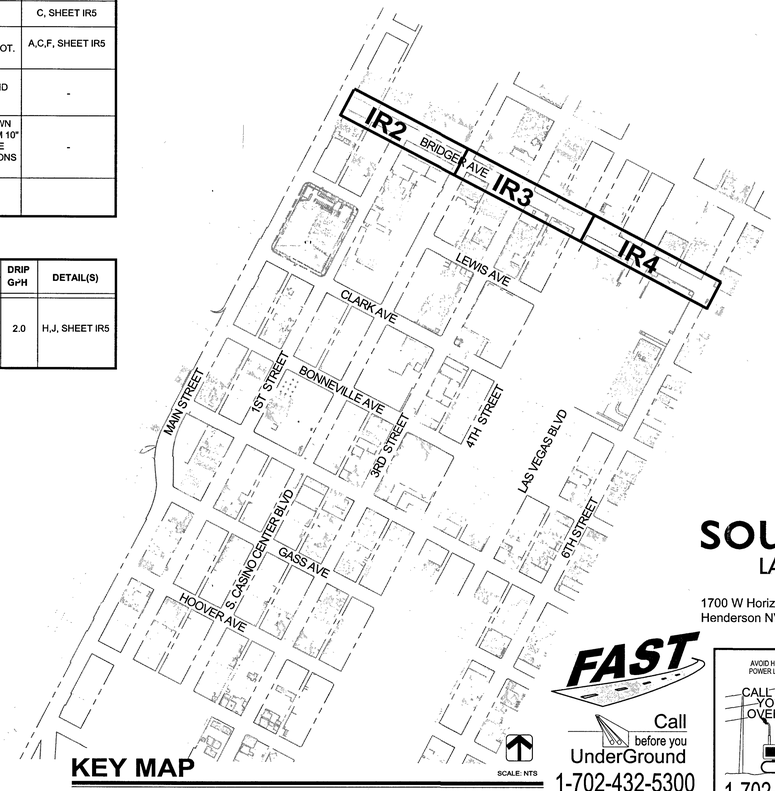
| SYMBOL | ITEM | DESCRIPTION | DETAIL(S) |
|---|---|---|---|
| | POINT OF CONNECTION | MAKE POINT OF CONNECTION AT EXISTING IRRIGATION MAINLINE AT AS SHOWN ON PLANS. VERIFY LOCATIONS IN FIELD. | - |
| | POINT OF CONNECTION | MAKE POINT OF CONNECTION DOWNSTREAM OF METER AND BACKFLOW PREVENTER. SEE CIVIL ENGINEERING PLANS. | - |
| | BACKFLOW PREVENTER | SEE CIVIL PLANS FOR LOCATION. APPROXIMATE LOCATION SHOWN ON IRRIGATION PLANS. COORDINATE EXACT LOCATION WITH OWNER'S CONSTRUCTION REPRESENTATIVE PRIOR TO CONSTRUCTION. | - |
| EXISTING, NOT SHOWN | IRRIGATION CONTROLLER | ALL 'B' VALVES ARE TO TIE INTO THE EXISTING CONTROLLER AT FIRST STREET. SPARE WIRES TO THE EXISTING VALVES SHOULD BE AVAILABLE IN VALVE BOX AT IRRIGATION POINT OF CONNECTIONS. FIELD VERIFY. | A, SHEET IR5 |
| SAT "H" SAT "I" SAT "J" | IRRIGATION CONTROLLER | RAINBIRD ESP-12SITE-SAT SITE SATELLITE CONTROLLER WITH MS-1 SURGE PROTECTOR. PEDESTAL MOUNT IN ENCLOSURE PED-DD16. CONTRACTOR TO COORDINATE EXACT LOCATION WITH OWNER'S REPRESENTATIVE. PROVIDE AND CONNECT TO DEDICATED TELEPHONE SERVICE AND 120V POWER. | A, SHEET IR5 |
| | DRIP VALVE ASSEMBLY | DRIP VALVE ASSEMBLY. RAINBIRD 100-PEB VALVE , RAINBIRD FILTER QKCHK-100, RAINBIRD PRESSURE REGULATOR RAINBIRD PSI-M40X-100. | F,G, SHEET IR5 |
| | GATE VALVE | SIZE PER LINE. BRASS GATE VALVE WITH CROSS OR BUTTERFLY OPERATING HANDLE. | E, SHEET IR5 |
| | QUICK COUPLER | RAINBIRD 44LRC WITH LOCKING RUBBER COVER WITH SH-1 HOSE SWIVEL AND 1" CHAMPION MANUAL ANGLE VALVE TO ISOLATE FROM MAINLINE. PROVIDE FOUR 44K KEYS. | D, SHEET IR5 |
| | FLUSH VALVE | AUTOMATIC END FLUSH VALVE. TORO LOC-EZE T-FCH-H FIPT OR APPROVED EQUAL. INSTALL AT THE END OF ALL DRIP LINE HEADERS. | I, SHEET IR5 |
| IR | MAINLINE | SCHEDULE 40 PVC. SIZE PER PLAN. | C, SHEET IR5 |
| | DRIP LINE | DRIP LINE HEADER: SCHEDULE 40 PVC, 3/4" DIAMETER WITH 1/2' IPS EXCALIBUR TUBING TO EMITTER. | C,J, SHEET IR5 |
| SLV | SLEEVE | SCHEDULE 40 PVC. SIZE PER PLAN. | B, SHEET IR5 |
| WC | WIRE CHASE | SCHEDULE 40 PVC. SIZE PER PLAN. | C, SHEET IR5 |
| NOT SHOWN | CONTROL WIRES | FROM VALVES TO SATELLITE CONTROLLERS: UF DIRECT BURIAL, SOLID COPPER, 12 GAUGE COMMON, 14 GAUGE PILOT. ROUTE WITH MAINLINE. SEE NOTE #9. | A,C,F, SHEET IR5 |
| ID SIZE GPM TYPE | VALVE IDENTIFICATION TAG | VALVE STATION, VALVE SIZE, MAXIMUM GPM PER VALVE AND PLANT/IRRIGATION TYPE. | - |
| | STUB AND CAP LOCATION | STUB AND CAP MAINLINE IN APPROXIMATE LOCATION SHOWN FOR POTENTIAL FUTURE CONNECTIONS. PROVIDE MINIMUM 10" CONCRETE LOCKING VALVE BOX AT LOCATION FOR FUTURE ACCESS. SEE PLANS FOR UNUSED WIRE AT THESE LOCATIONS FOR FUTURE IRRIGATION CONNECTIONS. | - |
| | EXISTING MAINLINE | EXISTING MAINLINE AT FIRST STREET. | |

## EMITTERS, SPRAY HEADS AND ROTOR HEADS

| SYM. | MANUFACTURER/MODEL | PAT. | RD | PSI | GPM | | | | | | DRIP GPH | DETAIL(S) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Q | T | H | TT | TQ | F | | |
| NOT SHOWN | BOWSMITH THREADED EMITTERS WITH BLACK SCHEDULE 40 MALE ADAPTERS. SL200, 2 GPH FOR TREES | -- | -- | 30 | - | - | - | - | - | - | 2.0 | H,J, SHEET IR5 |

# IRRIGATION NOTES

1. SEE SHEET IR5 FOR IRRIGATION DETAILS.
2. CONTRACTOR TO TIE NEW IRRIGATION MAINLINE INTO EXISTING IRRIGATION MAINLINES AS SHOWN, DOWNSTREAM FROM EXISTING WATER METER(S) AND BACKFLOW PREVENTER(S). AT NEW METERS, CONNECT DOWNSTREAM OF NEW METER AND NEW BACKFLOW PREVENTER. SEE CIVIL PLANS FOR ADDITIONAL UTILITY INFORMATION. SET STAKES TO IDENTIFY PROPOSED MAINLINE LOCATIONS. PIPING LAYOUT INDICATED IS DIAGRAMMATIC ONLY. ROUTE PIPING TO AVOID UTILITIES, STRUCTURES, PLANTS AND OTHER OBSTRUCTIONS. OBTAIN OWNER'S REPRESENTATIVE'S APPROVAL BEFORE EXCAVATION. REVIEW LAYOUT REQUIREMENTS WITH OTHER AFFECTED WORK.
3. CONTRACTOR TO TIE INTO EXISTING CONTROLLER AT FIRST STREET FOR VALVES IDENTIFIED AS 'B' USING EXISTING WIRE AS NOTED ON THE IRRIGATION SCHEDULE AND PLANS. CONTRACTOR TO VERIFY THAT THE EXISTING CONTROLLER(S) IS FUNCTIONING PROPERLY AND THAT IT HAS THE REQUIRED NUMBER OF OPEN STATIONS PRIOR TO INSTALLATION. FIELD LOCATE AND VERIFY THE STUBBED WIRE LOCATIONS. REFERENCE THE FOLLOWING IRRIGATION PLANS: "DOWNTOWN PEDESTRIAN & BICYCLE IMPROVEMENTS 1ST STREET - HOOVER TO GARCES BONNEVILLE TO BRIDGER".
4. MAINTAIN TRENCHES FREE OF DEBRIS, MATERIAL, OR OBSTRUCTIONS THAT MAY DAMAGE PIPE. FOLLOW ALL LOCAL CODES. PROVIDE A MINIMUM OF 12" BETWEEN IRRIGATION PIPE AND ELECTRICAL LINES.
5. BACKFILLING. PROVIDE TWO INCHES OF SAND COVER AROUND PIPING. BACKFILL TRENCH AND COMPACT TO SUB-GRADE ELEVATION. COMPACT TRENCHES UNDER PAVING TO 95%. COMPACT TRENCHES IN LANDSCAPE AREAS TO 85%. PROTECT PIPING FROM DISPLACEMENT.
6. CONTRACTOR NOT TO DISTURB ANY EXISTING IRRIGATION. CONTRACTOR TO BRING ANY EXISTING IRRIGATION TO THE ATTENTION OF THE CONSTRUCTION MANAGER. CONTRACTOR TO RETURN ANY EXISTING IRRIGATION ( USED TO WATER EXISTING PLANTS TO REMAIN) DAMAGED DURING CONSTRUCTION TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
7. IRRIGATION DRAWINGS ARE DIAGRAMMATIC. SOME VALVES AND LINES ARE SHOWN OUTSIDE OF PLANTER OR SIDEWALK AREAS FOR GRAPHIC CLARITY. THE INTENT IS FOR ALL VALVES TO BE LOCATED IN HARDSCAPE, OUTSIDE OF PAVER AREAS WHEN POSSIBLE.
8. THE DRIP IRRIGATION SYSTEM IS DESIGNED TO ACCOMMODATE A MAXIMUM OF 8 GPM PER DRIP VALVE ASSEMBLY.
9. PROVIDE SLEEVES FOR ALL IRRIGATION LINES BENEATH HARDSCAPE. COORDINATE LOCATIONS OF SLEEVES UNDER PAVING TO ACCOMMODATE SYSTEM.
10. WIRING: UL 493, SOLID COPPER CONDUCTOR, INSULATED CABLE, SUITABLE FOR DIRECT BURIAL.
    1. FEEDER CIRCUIT CABLES: TYPE UF, NO. 12 AWG MINIMUM.
    2. LOW VOLTAGE AND BRANCH CIRCUITS: TYPE UF, NO. 12 AWG MINIMUM, COMMON WIRE, WHITE COLOR AND NO. 14 AWG MINIMUM PILOT WIRE, COLOR OTHER THAN WHITE.
    3. SPLICING MATERIALS: WATER TIGHT FITTINGS AS RECOMMENDED BY WIRE MANUFACTURER.
    4. EXTRA WIRE: PULL ONE EXTRA WIRE FROM EACH CONTROLLER INTO ALL SEPARATE VALVE GROUPINGS CONTROLLED BY THAT CONTROLLER TO ACCOMMODATE POTENTIAL CHANGES OR IF THE WIRE FAILS. EXTRA WIRE TO BE A DIFFERENT COLOR THAN ALL THE OTHER WIRES.
    5. STUB UNUSED WIRE WITH WATER TIGHT FITTINGS IN 10" CONCRETE LOCKING VALVE BOX PER PLANS FOR POTENTIAL FUTURE IRRIGATION. RUN WIRE FROM ALL STATIONS IN THE CONTROLLER TO EITHER A VALVE OR THE STUB LOCATION. RUN COMMON WIRE TO ALL STUB LOCATIONS.
11. BRING ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE'S ATTENTION IMMEDIATELY.




KEY MAP

SCALE: NTS


southwick
LANDSCAPE ARCHITECTS
1700 W Horizon Ridge Pkwy, Suite 203 702.597.3108
Henderson NV 89012 www.southwickla.com




H#45921

PUBLIC WORKS DEPARTMENT
333 N. RANCHO DRIVE
LAS VEGAS, NV 89106
702-229-6272


2727 SOUTH RAINBOW BOULEVARD
LAS VEGAS, NEVADA 89146-5148
PH. (702) 873-7550
FAX (702) 362-7557
WEB SITE WWW.VTNNV.COM


| REV | DATE | BY | REVISION |
|---|---|---|---|
| | | | |

IRRIGATION LEGEND

BRIDGER AVENUE

DOWNTOWN PEDESTRIAN & BICYCLE IMPROVEMENTS
BRIDGER AVENUE
MAIN STREET TO 6TH STREET

DRAWN BY: CD — JULY 2014
DESIGNED BY: CD — JULY 2014
CHECKED BY: SWS — JULY 2014
PROJECT NO: 11-038 — SCALE: AS NOTED

REGISTERED LANDSCAPE ARCHITECT
CASSANDRA D. WILLIAMS
579
01/24/14
STATE OF NEVADA

SHEET
IR1
68 OF 72 SHEETS
DRAWING NO.
107V5664-BRIDGER