

#### IRRIGATION LEGEND

- M** EXISTING 2" WATER METER TO REMAIN.
- 4M** 4" WATER METER. SEE DETAIL H/1-6.
- BP** BACKFLOW PREVENTER. SEE DETAIL B/1-7 AND H/1-6.
- BP** BOOSTER PUMP AND PUMP HOUSE. SEE DETAILS A/1-7, H/1-6, AND C/1-7 AND SHEET A-1.
- IRRIGATION MAIN LINE, CLASS 200 PVC WITH MECHANICAL JOINT FITTINGS, SIZE 4". 36" DEPTH OF BURY.
- LATERAL PIPING, CLASS 200, O-RING GASKET END PVC, SIZE AS SHOWN ON PLAN. SIZES 2" AND SMALLER SHALL BE SCH. 40, SOLVENT WELD PVC. 18" DEPTH OF BURY. PIPE CONVEYING LESS THAN 5-GPM SHALL BE 2".
- 2" SCH. 40 PVC FLOWER WATER SPIGOT MAIN LINE, 36" DEPTH OF BURY.
- MV** MANUAL ISOLATION VALVE ASSEMBLY, SIZE SHALL EQUAL IRRIGATION MAIN LINE, OR FLOWER WATER SPIGOT MAIN LINE AS SHOWN ON PLAN. VALVES SHALL BE IDENTIFIED AS SHOWN ON PLAN ("TV-1", "TV-2", ETC.). SEE DETAIL B/1-6 FOR IRRIGATION MAIN LINE ISOLATION VALVES. SEE DETAIL E/1-5 FOR FLOWER WATER SPIGOT MAIN LINE ISOLATION VALVES AND DETAIL A/1-6 FOR ISOLATION VALVES LOCATED OUTSIDE OF ROADWAYS.
- MV** MAIN LINE MASTER VALVE ASSEMBLIES. SEE DETAIL C/1-6, B/1-5, AND H/1-6.
- FS** FLOW SENSING ASSEMBLIES, RAIN BIRD FS400P, 4" PVC TEE TYPE SENSOR (OR APPROVED EQUAL) AND RAINBIRD FS100P 1" PVC TEE TYPE SENSOR (OR APPROVED EQUAL). NOTE: PROVIDE MANUFACTURER APPROVED SENSOR CABLE AS REQUIRED TO LINK BETWEEN FLOW SENSORS AND CONTROLLER. SEE DETAILS H/1-5 AND H/1-6.
- RCV** REMOTE CONTROL VALVE ASSEMBLY, SIZES 1", 1.5" AND 2" SHALL BE RAIN BIRD PESB SERIES (OR APPROVED EQUAL). 3" SHALL BE RAINBIRD 300-BPE BRASS VALVE (OR APPROVED EQUAL). ALL VALVES SHALL BE 24-VOLT SOLENOID VALVES WITH MANUAL ACTIVATION & FLOW CONTROL. EACH REMOTE CONTROL VALVE SHALL BE EQUIPPED WITH A RAINBIRD FD-TURF TWO WIRE DECODER. SEE DETAIL B/1-5.
- AV** AIR RELEASE VALVE ASSEMBLY, CRISPIN A-20, SIZE 2" (OR APPROVED EQUAL) SEE DETAIL A/1-5.
- QCV** QUICK COUPLING VALVE ASSEMBLY, SIZE 1". SEE DETAIL D/1-6.
- FW** EXISTING FLOWER WATER STATION TO REMAIN. REPLACE EXISTING FAUCET WITH HAWS MODEL #6252 EHFL FAUCET PER DETAIL E/1-6.
- FW** FLOWER WATER STATION: INCLUDES FLOWER WATER SPIGOT, TRASH AND FLOWER VASE RECEPTACLES, DRAIN VALVE AND MANUAL SHUT OFF VALVE. SEE DETAIL I/1-6.

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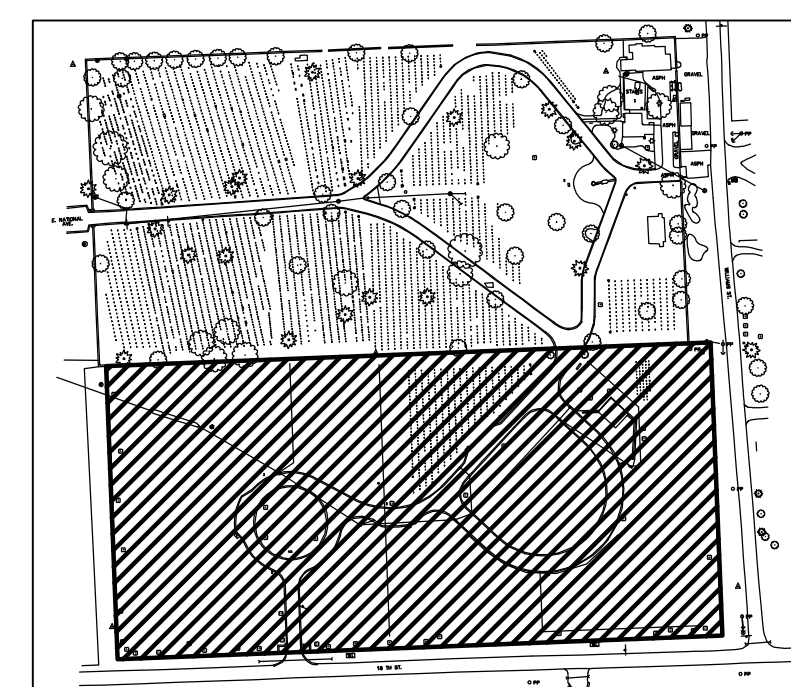
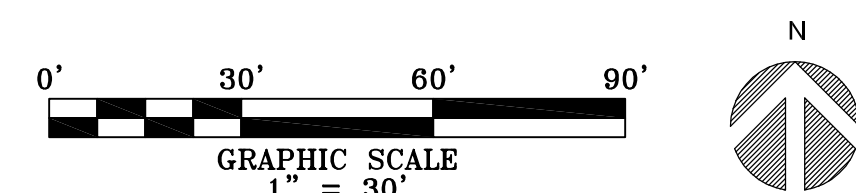
- SOLVENT WELD CAP, SCH. 40 PVC, SIZE SAME AS PIPING.
  - GR** GEAR DRIVE ROTARY POP-UP SPRINKLER ASSEMBLY, RAIN BIRD 3500 SERIES, 4" POP-UP WITH RAIN BIRD ROTARY NOZZLES (MODEL NO. 3504-PC-SAM). NOZZLE NO AS FOLLOWS: (OR APPROVED EQUAL) SEE DETAIL G/1-5.
  - GR** GEAR DRIVE ROTARY POP-UP SPRINKLER ASSEMBLY, RAIN BIRD 5000 PLUS SERIES, 4" POP-UP WITH STAINLESS STEEL RISER (MODEL NO. 5004-PL-SS-SAM). NOZZLE NO AS FOLLOWS: (OR APPROVED EQUAL) SEE DETAIL G/1-5.
  - GR** GEAR DRIVE ROTARY POP-UP SPRINKLER ASSEMBLY, RAIN BIRD 5500 SERIES, 5" POP-UP. MODEL NO AS FOLLOWS: (OR APPROVED EQUAL) SEE DETAIL G/1-5.
  - GR** GEAR DRIVE ROTARY POP-UP SPRINKLER ASSEMBLY, RAIN BIRD 8005 SERIES, 4" POP-UP. MODEL NO AS FOLLOWS: (OR APPROVED EQUAL) SEE DETAIL G/1-5.
- | NOZZLE NO. | RADIUS | GPM  | PSI | PR   | Q |
|------------|--------|------|-----|------|---|
| .75        | 17'    | 0.39 | 45  | 1.02 |   |
| .75        | 17'    | 0.77 | 45  | .51  |   |
| .75        | 17'    | 1.54 | 45  | .26  |   |
- | NOZZLE NO. | RADIUS | GPM  | PSI | PR  | Q |
|------------|--------|------|-----|-----|---|
| MPR-30-Q   | 30'    | 1.40 | 45  | .60 |   |
| MPR-30-T   | 30'    | 1.85 | 45  | .59 |   |
| MPR-30-H   | 30'    | 2.96 | 45  | .63 |   |
| MPR-30-F   | 30'    | 5.78 | 45  | .62 |   |
- | MODEL NO.             | RADIUS | GPM | PSI | PR  | Q |
|-----------------------|--------|-----|-----|-----|---|
| 5505-05-SS-SAM (1/4") | 47'    | 5.1 | 70  | .88 |   |
| 5505-05-SS-SAM (1/2") | 47'    | 5.1 | 70  | .44 |   |
| 5505-05-SS-SAM (FULL) | 47'    | 5.1 | 70  | .22 |   |
- | MODEL NO.             | RADIUS | GPM  | PSI | PR   | Q |
|-----------------------|--------|------|-----|------|---|
| 8005-SS-SAM-12 (1/4") | 59'    | 13.2 | 70  | 1.68 |   |
| 8005-SS-SAM-12 (1/2") | 59'    | 13.2 | 70  | .84  |   |
| 8005-SS-SAM-12 (FULL) | 59'    | 13.2 | 70  | .42  |   |
| 8005-SS-SAM-14 (1/4") | 63'    | 15.3 | 70  | 1.72 |   |
| 8005-SS-SAM-14 (1/2") | 63'    | 15.3 | 70  | .86  |   |
| 8005-SS-SAM-14 (FULL) | 63'    | 15.3 | 70  | .43  |   |

#### IRRIGATION LEGEND

- NOTE: THE RAIN BIRD 1800 SERIES HEADS HAVE BEEN DELETED FROM THE PROJECT.
- BUB** BUBBLER ASSEMBLY, RAIN BIRD 1400 SERIES PRESSURE COMPENSATING BUBBLERS. MODEL NO AS FOLLOWS: (OR APPROVED EQUAL) SEE DETAIL J/1-5.
- BUB** IRRIGATION CONTROLLER ASSEMBLY: RAIN BIRD MC2 TWO WIRE DECODER CONTROLLER IN STAINLESS STEEL WALL MOUNT ENCLOSURE WITH FLOW SENSING FOR HIGH FLOW SHUT OFF OF MASTER VALVES, SURGE SUPPRESSION, AND LIGHTING PROTECTION. SEE DETAIL D/1-5. CONTROLLER ASSEMBLY SHALL BE ASSEMBLED BY RAIN BIRD TECHNICAL SERVICES (OR APPROVED EQUAL).

#### IRRIGATION NOTES

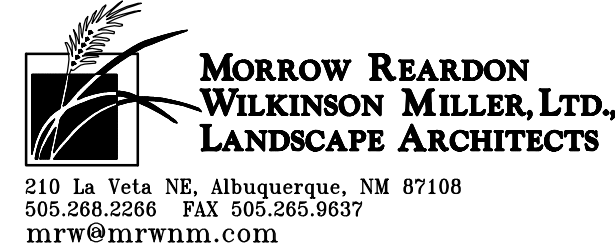
- REFERENCE DETAILS I/1-5 AND TYPICAL ROAD SECTIONS A-A AND B-B, SHEET 1-6, FOR MAIN LINE AND FLOWER WATER SPIGOT MAIN LOCATED IN ROADWAY.
- IN LOCATIONS WHERE IRRIGATION OR ELECTRICAL TRENCHES CUT THROUGH EXISTING TURF, THE TRENCHED AREA AND SURROUNDING AREA DISTURBED BY SPOILS FROM TRENCHING SHALL BE REPAIRED WITH NEW FRESH CUT SOD.
- CONTRACTOR SHALL COORDINATE WITH THE CITY OF FORT SCOTT AS REQUIRED FOR INSTALLATION OF 4" WATER METER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS, LABOR, EQUIPMENT, AND MATERIALS ASSOCIATED WITH INSTALLATION OF 4" WATER METER.
- WHERE SPRINKLER HEADS ARE ADJACENT TO CURB AT ROADWAYS, SPRINKLER HEADS SHALL BE INSTALLED 4' FROM BACK OF CURB. WHERE SPRINKLER HEADS ARE ADJACENT TO WALLS, SPRINKLER HEADS SHALL BE INSTALLED 12" FROM FACE OF WALL.
- REFERENCE DRAWINGS I-3 AND I-4 FOR LOCATIONS OF SPRINKLER HEADS AND LATERAL PIPING.
- IN LOCATIONS WHERE 14 GAUGE TWO WIRE CONTROL WIRE IS SPliced, THE SPICES SHALL BE LOCATED IN THE TURF AREA 3'-0" BEHIND THE BACK OF CURB. SPICES SHALL BE PLACED IN A 10" DIA. ROUND VALVE BOX (COLOR BLACK). SPICES AND SPICE BOXES SHALL NOT BE LOCATED IN THE ROADWAY. HOT BRAND OR CONICAL BIT ROUTER VALVE BOX LID WITH 3" BY 3/16" DEEP LETTERS WS.



## RECORD DRAWINGS

Revisions	Date

**URS**  
2020 K STREET, SUITE 300  
Washington, DC 20006  
TELEPHONE: (202) 872-0277  
FAX: (202) 872-0282  
• Civil Engineers  
• Architects & Landscape Architects  
• Structural Engineers  
• Mechanical, Electrical & Plumbing Engineers



NATIONAL  
CEMETERY  
ADMINISTRATION

Drawing Title <b>IRRIGATION PLAN (1 OF 2) AREA 1 CONTROLLER CHART</b>	Project Title <b>FORT SCOTT NATIONAL CEMETERY</b>	Date <b>JULY 14, 2011</b>
Approved: Director, Memorial Service Network	Building Number <b>DCW</b>	Checked <b>AD</b>
Approved: Director, Office of Construction Management	Location <b>FORT SCOTT NATIONAL CEMETERY FORT SCOTT, KANSAS</b>	Drawn <b>AD</b>
Project No. <b>893-CM3-011</b>		Drawn No. <b>I-1</b>
DRAWING NO.		Dwg. 6 of 14