

ADD-ALTERNATE #1 LIMIT OF WORK OVERLAPS INTO BASE BID AREA FOR GRADING AND URN VAULT INSTALLATION. PLANTING AND IRRIGATION WORK DOES NOT OVERLAP

BASE PROJECT SCOPE AREA

LIMIT OF DISTURBANCE (ADD-ALTERNATE)

GENERAL NOTES

1. THE SYSTEM DESIGN ASSUMES A MINIMUM DYNAMIC PRESSURE FOR THE IRRIGATION SYSTEM OF 80 PSI AT A MINIMUM DISCHARGE OF 100 GPM AT THE EXISTING MAINLINE STUB-OUT. NOTIFY THE CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE IF THERE IS A DISCREPANCY IN PRESSURE OR FLOW. TEST FOR BOTH IMMEDIATELY UPON COMPLETION OF THE STUBOUT BY THE UTILITY CONTRACTOR.
2. READ THOROUGHLY AND BECOME FAMILIAR WITH THE SPECIFICATIONS AND INSTALLATION DETAILS FOR THIS AND RELATED WORK PRIOR TO CONSTRUCTION. CONFIRM EXACT LIMITS OF IRRIGATED AREA AND ALL EXISTING AND FUTURE HARDSCAPE AND BURIAL AREAS PRIOR TO CONSTRUCTION.
3. COORDINATE UTILITY LOCATES ("CALL BEFORE YOU DIG") OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND CONDITIONS BEFORE EXCAVATING. CONTRACTOR WILL NEED TO EMPLOY A PRIVATE LOCATOR TO LOCATE PRIVATE VETERANS ADMINISTRATION UTILITIES ON SITE. (EXAMPLE: UNDERGROUND ELECTRIC)
4. DO NOT PROCEED WITH THE INSTALLATION OF THE IRRIGATION SYSTEM WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS OR GRADE DIFFERENCES EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING, OR IF DISCREPANCIES IN CONSTRUCTION DETAILS, LEGEND, NOTES, OR SPECIFICATIONS ARE DISCOVERED, BRING ALL SUCH OBSTRUCTIONS OR DISCREPANCIES TO THE ATTENTION OF THE CONTRACTING OFFICER'S REPRESENTATIVE.
5. THE DRAWINGS ARE DIAGRAMMATIC. THEREFORE, THE FOLLOWING SHOULD BE NOTED:
 - A. IRRIGATION COMPONENTS MAY BE SHOWN OUTSIDE PLANTING AREAS FOR CLARITY.
 - B. AVOID CONFLICTS BETWEEN THE IRRIGATION SYSTEM, PLANTING MATERIALS, ARCHITECTURAL FEATURES, AND UNDERGROUND UTILITIES.
 - C. INSTALL IRRIGATION PIPE AND WIRING IN LANDSCAPED AREAS WHENEVER POSSIBLE.
6. SELECT NOZZLES FOR ROTARY SPRINKLERS WHICH PROVIDE COMPLETE AND ADEQUATE COVERAGE IF SITE CONDITIONS ARE NOT AS SHOWN. CAREFULLY ADJUST THE RADIUS OF THROW AND ARC OF EACH ROTARY SPRINKLER TO PROVIDE THE BEST PERFORMANCE AND MINIMIZE OVER SPRAY.
7. WITH REGARD TO PIPE SIZING, THE FOLLOWING SHOULD BE NOTED: IF A SECTION OF UNSIZED PIPE IS LOCATED BETWEEN TWO IDENTICALLY SIZED SECTIONS, THE UNSIZED PIPE IS THE SAME NOMINAL SIZE AS THE TWO SIZED SECTIONS. THE UNSIZED PIPE SHOULD NOT BE CONFUSED WITH THE DEFAULT PIPE SIZE NOTED IN THE LEGEND.
9. PROVIDE THE FOLLOWING COMPONENTS TO THE OWNER PRIOR TO THE COMPLETION OF THE PROJECT:
 - A. ONE OF EACH SERVICING WRENCH OR TOOL NEEDED FOR COMPLETE ACCESS, ADJUSTMENT, AND REPAIR OF ALL ROTARY SPRINKLERS.
 - B. TWO OF EACH TYPE OF SPRINKLER HEAD ASSEMBLY AS SHOWN ON THE DRAWINGS.

GENERAL DESCRIPTION

A FULLY AUTOMATED SPRINKLER IRRIGATION SYSTEM WILL IRRIGATE NEW URN VAULT SECTION AND LANDSCAPED AREAS.

POTABLE WATER WILL BE USED FOR IRRIGATION. THE POINT OF CONNECTION (P.O.C.) WILL BE FROM THE 3-INCH POTABLE WATER STUB-OUT FROM PREVIOUS PHASE

THE EXISTING CLIMATOLOGICALLY BASED PROGRAMMABLE TWO WIRE DECODER SYSTEM CONTROLLER INSTALLED DURING PHASE 1A WILL BE USED.

MAINLINE AND SUB MAINLINE PIPE ARE HDPE WITH FUSION WELDED JOINTS.

GOLF STYLE VALVE IN HEAD (VIH) ROTORS WITH EACH SPRINKLER HEAD INDEPENDENTLY CONTROLLED WILL BE USED FOR BURIAL AREAS. BLOCK STYLE SPRINKLERS WITH ROTOR HEADS OR SPRAYS ON LATERAL PIPE OPERATED BY A REMOTE CONTROL VALVE WILL BE USED FOR SMALLER AREAS.

ISOLATION GATE VALVES PERMIT THE ISOLATION OF SECTIONS OF THE SYSTEM FOR REPAIRS OR MAINTENANCE.

LEGEND

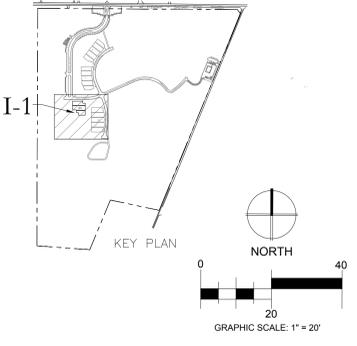
- EXISTING HDPE IRRIGATION MAINLINE
- - - EXISTING HDPE IRRIGATION MAINLINE STUB-OUT
- HDPE IRRIGATION MAINLINE PIPE
- HDPE SUB-MAINLINE PIPE TO VIH SPRINKLERS
- CL 200 PVC LATERAL PIPE TO SPRINKLERS
- MAINLINE ISOLATION GATE VALVE ASSEMBLY
- ISOLATION GATE VALVE FOR SPRINKLER SUB-MAINLINE
- ⊗ QUICK COUPLING VALVE ASSEMBLY: EXISTING
- ⊕ REMOTE CONTROL VALVE ASSEMBLY: HUNTER ICV-FS-DC
- ⊙ POP-UP GEAR-DRIVEN ROTOR SPRINKLER, PRESSURE: 60 PSI HUNTER I-35-SS
- ⊙ VALVE-IN-HEAD ROTOR SPRINKLER, PRESSURE: 70 PSI HUNTER G-875
- ⊙ STREAM BUBBLER NOZZLE ON POP-UP SPRAY SPRINKLER ASSEMBLY: HUNTER PRS-40 PRESSURE: 30 PSI FLOW: 0.5 GPM RADIUS: 5- FEET
- ⊙ NOTE: INSTALL ONE BUBBLER PER TREE/SHRUB ON 12-INCH POP-UP HEIGHT. LOCATE BUBBLER ON DOWNHILL SIDE OF TREE AND 6 INCHES FROM EDGE OF ROOT BALL.
- 1-14 65 2- INDICATES CONTROLLER AND CONTROLLER STATION NUMBER INDICATES LATERAL DISCHARGE IN GPM INDICATES REMOTE CONTROL VALVE SIZE IN INCHES

NOTE: SHADED COMPONENTS ON DRAWINGS ARE EXISTING. WHERE MAKE AND MODEL NUMBER ARE USED THE INTENT IS TO MATCH EXISTING EQUIPMENT. REFER TO SPECIFICATIONS FOR EQUIPMENT OPTIONS NOT LISTED IN THE LEGEND.

FLAG NOTES

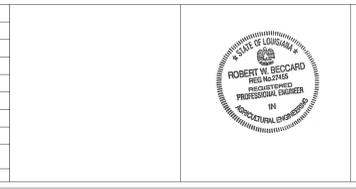
1. INSTALL TWO WIRE GROUNDING AND SURGE PROTECTION AT LOCATIONS INDICATED. SEE IRRIGATION DETAIL SHEET I-2.
2. CONNECT NEW PIPE AND NEW WIRE TO EXISTING AT STUB-OUT AT APPROXIMATE LOCATION INDICATED. CONNECT NEW PIPE TO EXISTING USING DUCTILE IRON REPAIR COUPLINGS AND JOINT RESTRAINTS, MAKE SPLICES TO IRRIGATION WIRING PER THE IRRIGATION SPECIFICATIONS AND INSTALL SPLICE IN 10-INCH ROUND VALVE BOX WITH A THREE FOOT COIL OF WIRE ACCESSIBLE.
3. COIL 10 FEET OF TWO WIRE CABLE IN A STANDARD VALVE BOX FOR ACCESS TO CABLE IN THE FUTURE. INSTALL AT END OF 1-1/2-INCH SLEEVE.
4. EXCAVATE AND EXPOSE EXISTING LATERAL PIPE AT LOCATION INDICATED. CONNECT NEW LATERAL PIPE FOR FOUR NEW SPRINKLERS TO EXISTING USING PVC SCH 40 SOLVENT WELD FITTINGS.
5. ADD ALTERNATE: IF ADD ALTERNATE IS NOT ACCEPTED PROVIDE ELECTRO WELD CAP AT HDPE STUB-OUTS SHOWN, DO NOT INSTALL VALVE IN HEAD SPRINKLERS 1-140, 1-141, 1-142 AND 1-143. SUB-MAINLINE PIPE ROUTING WILL REMAIN THE SAME. TWO WIRE PATH WIRE ROUTING TO BE PROVIDED WITH SUB-MAIN LATERAL PIPE.
6. ADD ALTERNATE: IF ADD ALTERNATE IS NOT ACCEPTED PROVIDE PVC SCH 40 SOLVENT WELD CAP AT LATERAL SHOWN, DO NOT INSTALL 6 BUBBLERS DOWNSTREAM OF THE ADD-ALTERNATE BOUNDARY.
7. STUB-OUT FOR FUTURE FLOWER WATER STATION, REFER TO DETAIL SHEET I-3.

SITE LEGEND



CONSTRUCTION DOCUMENTS

Revisions	Date



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NATIONAL CEMETERY ADMINISTRATION

Sheet Title	IRRIGATION PLAN
Approved: Director, Office of Construction Management	
Approved: Director, Project Management Service	

Project Title	LOUISIANA NATIONAL CEMETERY GRAVESITE EXPANSION PHASE 1D
Building Number	
Checked	RWB
Drawn	JDL
Location	LOUISIANA NATIONAL CEMETERY ZACHARY, LOUISIANA

Date:	AUGUST 5, 2013
Project No.	870CM3023D
SHEET REFERENCE	I-1
Dwg. 17 OF 19	