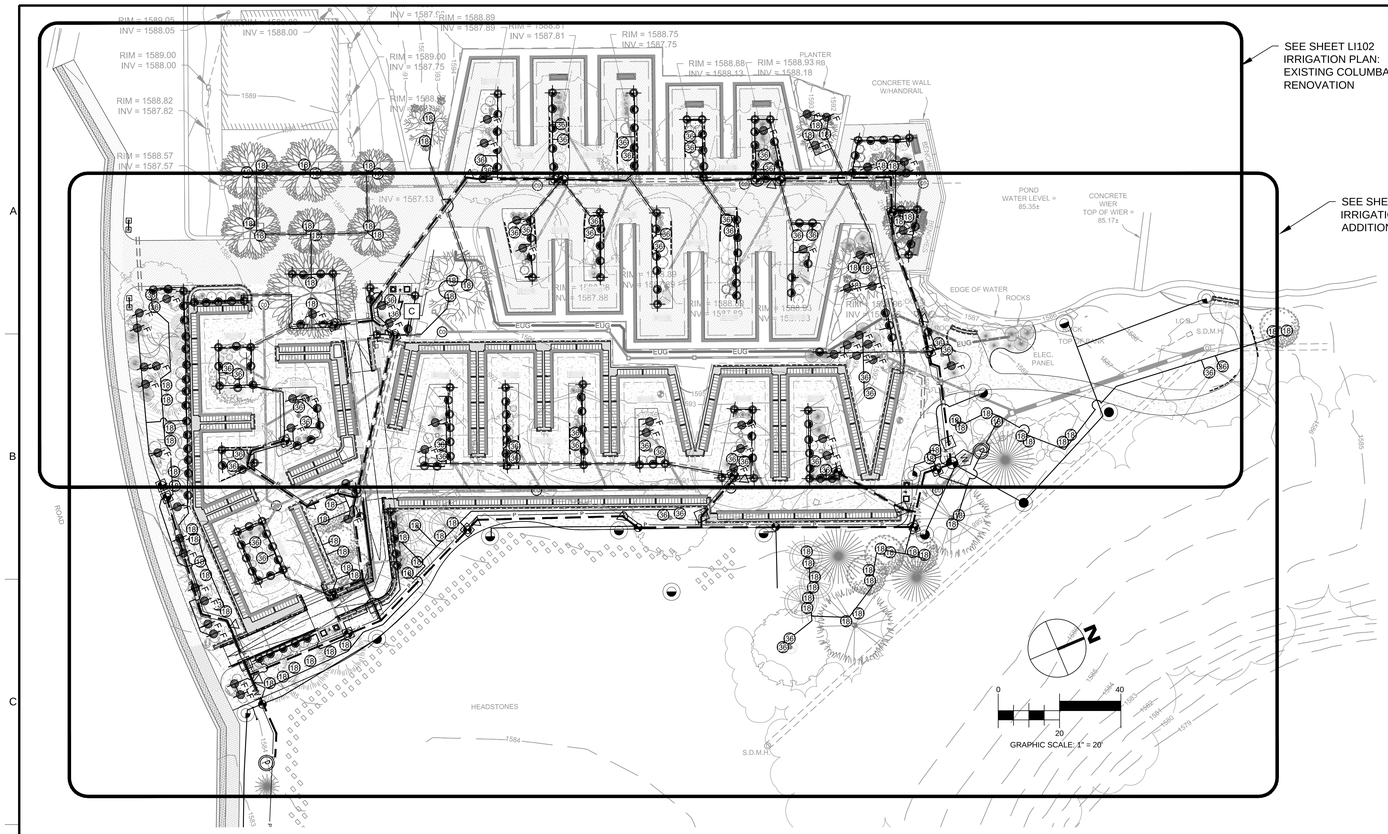

IRRIGATION LEGEND:

ALL EQUIPMENT TO BE AS LISTED OR APPROVED EQUAL: SEE SPECIFICATIONS FOR REFERENCE AND ADDITIONAL.

SYMBOL	DESCRIPTION	SIZE	MANUFACTURER	MODEL NUMBER	DETAIL REF.
C	CONTROLLER N (ADDED)	16 STATIONS	RAINBIRD	EXISTING CONT. 23 IS ESP-MC-SAT-LINK; ADDITIONAL ADDED IS ESP-24MC-SAT-LINK	D4/ LI501
	CONTROL VALVE	SEE CALL OUT	RAINBIRD	PESBR-PRS-D-HAN SCRUBBER TYPE	F1/ LI502
	DRIP CONTROL VALVE	SEE CALL OUT	RAINBIRD	XCZ-100-PRBR GATE VALVE FOR 2 1/2" AND SMALLER	C1/ LI501
	ISOLATION GATE VALVE	LINE SIZE	NIBCO OR WATTS OR EQUAL	RESILIENT WEDGE (OR EQUAL) FOR 3" AND LARGER; GATE VALVE FOR 2 1/2" AND SMALLER	C4/ LI501
	QUICK COUPLER VALVE	1"	RAINBIRD	44NP	F1/ LI501
	CONTINUOUS ACTING AIR & VACUUM RELIEF VALVE	2"	BERMAD	MODEL C11	D7/ LI502
W	WIRE SPLICE BOX	18"	RAINBIRD	USE RAINBIRD VB-STD VALVE BOX WITH LID THAT INDICATES "IRRIGATION CONTROL"	F7/ LI502
P	BRASS PRESSURE REDUCING VALVE	1.5"	WATTS OR EQUAL	LF 223 SERIES OR WILKINS SERIES 500XL	C3/ LI502
F	SHRUB BUBBLER	3"	RAINBIRD	1804 SERIES SHRUB BUBBLERS MPR 5 RD SERIES	F7/ LI501
	SHRUB BUBBLER	3"	RAINBIRD	1804 SERIES SHRUB BUBBLERS MPR 5 RD SERIES	F7/ LI501
	SHRUB BUBBLER	3"	RAINBIRD	1804 SERIES SHRUB BUBBLERS MPR 5 RD SERIES	F7/ LI501
18 36	ROOT ZONE WATERING SYSTEM	18" OR 36"	RAINBIRD	5 GPM RWS-M-B-1402/ 5 GPM RWS-B-1402	C1/ LI502
	ELECTRICAL GROUNDING			PER MANUFACTURER RECOMMENDATIONS	F4/ LI501
P	POINT OF CONNECTION: VERIFY 120 GPM/80-85 PSI AVAILABILITY			COORDINATE WITH RIVERSIDE NATIONAL CEMETERY: CONNECTION TO MAINLINE TO BE INSPECTED BY WESTERN MUNICIPAL WATER DISTRICT	
	LATERAL LINE	1.5" UNLESS SHOWN		SCH 40 PVC: NON POTABLE (PURPLE) PIPE	B7/ LI502
	NEW MAIN LINE	3.0" UNLESS SHOWN		FOR 3" PIPE- CLASS 200 SDR 21 NON POTABLE PIPE FOR PIPE < 3" - SCH 40 PVC NON POTABLE PIPE	B7/ LI502
	EXISTING MAIN LINE TO REMAIN	3.0" UNLESS SHOWN			B7/ LI502
	SLEEVE LINES	6" OR 2X PIPE DIA.		SCH 80 PVC (SCH40 PVC UNDER WALKS & TRAILS)	B7/ LI502
P	VALVE CONTROL WIRE IN MAIN LINE TRENCH	14 AWG	PAIGE ELECTRIC OR APPROVED EQUAL	AWG #14 SOLID COPPER TYPE UF; UL LISTED FOR DIRECT BURIAL	B7/ LI502

NOTE: RIVERSIDE NC IRRIGATES WITH RECLAIMED WATER: ALL VALVE BOX COVERS, QUICK COUPLERS, IRRIGATION HEADS, OR OTHER EXPOSED ELEMENTS TO BE PURPLE AND INDICATIVE OF NON POTABLE WATER USED. INCLUDE NON POTABLE DESIGNATION IN ALL SUBMITTED OR USED COMPONENTS (WHETHER INDICATED OR NOT).

SHRUB BUBBLER LEGEND

	5Q NOZZLE	0.1 GPM
	5H NOZZLE	0.2 GPM
F	5F NOZZLE	0.4 GPM

SPRINKLER HEAD LEGEND

RAINBIRD IRRIGATION PARTS

8005 ROTOR POP-UP SPRINKLER (SEE DETAIL A3/ LI502)

#16 NOZZLE - 8000 SERIES	15.9 GPM	8005/R65F
#8 NOZZLE - 8000 SERIES	8.4 GPM	8005/R49F
#4 NOZZLE - 8000 SERIES	3.8 GPM	8005/R39F

SPRINKLER HEAD LEGEND

RAINBIRD IRRIGATION PARTS

6504 SS NP ROTOR POP-UP SPRINKLER (SEE DETAIL F4/ LI502, SIMILAR)

#18 NOZZLE	18 GPM	6504 FC-SS-NP
#16 NOZZLE	16 GPM	6504 PC-SS-NP
#14 NOZZLE	15.2 GPM	6504 PC-SS-NP
#10 NOZZLE	10.8 GPM	6504 PC-SS-NP

SPRINKLER HEAD LEGEND

RAINBIRD IRRIGATION PARTS

3506 ROTOR POP-UP SPRINKLER (SEE DETAIL 4/ LI502), SIMILAR

3500 SERIES NOZZLE TREE	3.64 GPM	MP3506/ R15-35F
3500 SERIES NOZZLE TREE	2.73 GPM	MP3506/ R15-35F
3500 SERIES NOZZLE TREE	2.12 GPM	MP3506/ R15-35F
3500 SERIES NOZZLE TREE	1.82 GPM	MP3506/ R15-35F
3500 SERIES NOZZLE TREE	.86 GPM	MP3506/ R15-35F

IRRIGATION NOTES:

1. ALL IRRIGATION HEADS TO BE INSTALLED 6" AWAY FROM BUILDING WALLS.
2. CONTRACTOR TO VERIFY EXISTING CONDITIONS. ALL EXISTING UTILITIES ARE TO BE LOCATED BEFORE ANY TRENCHING OF ANY KIND BEGINS.
3. PROTECT ALL EXISTING IMPROVEMENTS TO REMAIN AND REPAIR BACK TO ORIGINAL CONDITION AT CONTRACTOR'S EXPENSE IF DAMAGE OCCURS RESULTANT FROM CONTRACTOR'S OPERATIONS OR NEGLIGENCE.
4. RE-GRADE AND SOD ALL EXISTING LAWN AREAS DISTURBED BY CONTRACTOR'S OPERATIONS AS PER SPECIFICATIONS. A DISTURBED AREA SHALL BE WHERE CONSTRUCTION ACTIVITIES INCLUDING TRENCHING, DEMOLITION, EARTHWORK, MATERIAL STORAGE, STAGING, PARKING OR ANY OTHER FORM OF EXCAVATION, COMPACTION OR TRAFFIC RESULTS IN THE REMOVAL OR DISPLACEMENT OF EXISTING GROUND COVER OR GRADE. COORDINATE WITH GENERAL CONTRACTOR.
5. COORDINATE WORK ON THIS SHEET WITH ALL OTHER TRADES.
6. SYSTEM DESIGN IS BASED UPON AVAILABILITY OF 80 MIN. PSI AT THE POINT OF CONNECTION, 55 PSI AT ROTORS AND 40 PSI AT MP ROTATOR. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES. ZONES SHALL NOT EXCEED 80 GPM. COORDINATE WATER BUDGET/ ZONING WITH CENTRAL CONTROL SYSTEM.
7. INSTALL IRRIGATION SYSTEM AS DETAILED AND PER SPECIFICATIONS.
8. IRRIGATION PIPING LAYOUT IS SCHEMATIC. ACTUAL LOCATION OF PIPING AND OTHER COMPONENTS MAY VARY DUE TO EXISTING SITE CONDITIONS.
9. COORDINATE HEAD LOCATIONS WITH EXISTING PLANTS TO ENSURE PROPER COVERAGE.
10. INSTALL AN AIR RELIEF VALVE AT THE PIPE HIGH POINT AND AS SHOWN.
11. INSTALL CONTROL WIRES FROM ELECTRIC VALVES TO CONTROLLER. (PROVIDE 2 SPARE CONTROL WIRES & 1 SPARE COMMON WIRE TO LAST VALVE AT EAST & WEST ENDS OF SITE.) SPARE WIRES TO FILL IRRIGATION CONTROLLER. ALL WIRING CONNECTIONS TO BE DBY COMPLIANT.
12. SLEEVES SHALL BE (2) SIZES LARGER THAN PIPE OR COMBINATION OF PIPES THEREIN ENCLOSED, WITH MINIMUM SIZE TO BE 4" SUPPLY (1) EXTRA SLEEVE WITH EACH MAIN LINE SLEEVE FOR CONTROL WIRES. BORE UNDER EXISTING PAVING WHERE REQUIRED. BORE SEPARATELY FOR CONTROL WIRES.
13. PROVIDE TEMPORARY WATERING AS REQUIRED. COORDINATE PROTECTION OF EXISTING TREES AND PLANTS DURING CONSTRUCTION ACTIVITIES.
14. CONTRACTOR TO ADJUST IRRIGATION HEADS TO PROVIDE COMPLETE COVERAGE AND TO MINIMIZE OVER SPRAY ONTO BUILDINGS.
15. SEE DETAIL SHEETS LI501 AND LI502 FOR INSTALLATION OF IRRIGATION COMPONENTS.
16. CONTRACTOR TO PROVIDE POWER TO ALL IRRIGATION CONTROLLERS (IF APPLICABLE).
17. CONTRACTOR TO SUBMIT IRRIGATION AS-BUILT DRAWINGS FOR REVIEW BY THE LANDSCAPE ARCHITECT.
18. ALL CONNECTIONS TO EXISTING MAINLINE TO BE INSPECTED BY WESTERN MUNICIPAL WATER DISTRICT.

ZONE KEY: SEE SHEETS LI102 AND LI103

Revisions:	Date

CONSULTANTS:

REGISTERED LANDSCAPE ARCHITECT — JOSEPH HENRICH HINKES — 5/26/16 — COMMONWEALTH OF VIRGINIA

ARCHITECT/ENGINEERS:

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Drawing Title	IRRIGATION PLAN
Project Title	Expand Columbarium A
Project Number	901CM3040
Building Number	
Approved: Project Director	
Location	Riverside National Cemetery, 22495 Van Buren Blvd, Riverside CA 92518
Date	May 26, 2016
Checked	EH
Drawn	EH/JH/AW
Drawing Number	LI101
Dwg.	41 of 47

NCA DESIGN AND CONSTRUCTION SERVICE

Department of Veterans Affairs

VA FORM 08-6231

three inches = one foot 6"
one and one half inches = one foot 6"
one inch = one foot 6"
three quarters inch = one foot 6"
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot
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