DEPARTMENT OF VETERANS AFFAIRS

BILOXI NATIONAL CEMETERY

IRRIGATION REPLACEMENT - VOLUME I

NCA PROJECT NO. 832CM3032

RECONSTRUCT ROADS AND INSTALL CURBS - VOLUME II

NCA PROJECT NO. 832IC3033

400 VETERANS AVE, BILOXI, MS 39531

PROJECT TEAM

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COMBINED PROJECT PHASING NOTES

THE WORK ELEMENTS OF THIS PROCUREMENT INCLUDE THE EFFORTS TO REPLACE THE IRRIGATION SYSTEM AND RENOVATE THE EXISTING ROADS ON THE BILOXI NATIONAL CEMETERY IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS IDENTIFIED AS VOLUME I - IRRIGATION REPLACEMENT AND VOLUME II - RENOVATE ROADS AND CURBS. TWO ADDITIVE BIDS ARE INCLUDED IN VOLUME II; REFER TO SHEETS D-101 AND C-101 FOR DETAILS.

THE INTENT IS FOR THE WORK REQUIRED BY VOLUMES I & II TO BE COMPLETED UNDER ONE CONTRACT WITH DETAILED COORDINATION TO MINIMIZE IMPACTS TO CEMETERY OPERATIONS WHILE ACHIEVING THE PHASING REQUIREMENTS LISTED IN BOTH VOLUMES.

THE PHASING REQUIREMENT OF VOLUME II ARE PRIMARY REQUIREMENTS AND CAN, IF NECESSARY, TAKE PRECEDENCE OVER THE REQUIREMENTS OF VOLUME I. THE PURPOSE OF THE DETAILED COORDINATION IS TO SYNCHRONIZE THE ROAD AND IRRIGATION WORK TO MAINTAIN CEMETERY OPERATIONS WHILE REPLACING THE IRRIGATION SYSTEM USING AN UPSTREAM TO DOWNSTREAM COMPONENT APPROACH THAT MINIMIZES THE POTENTIAL FOR DEBRIS TO FOUL NEWLY REPLACED DOWNSTREAM IRRIGATION COMPONENTS.

THE CONTRACTOR IS REQUIRED TO PROVIDE A CONSTRUCTION SEQUENCE OF OPERATIONS PHASING PLAN FOR VA APPROVAL THAT CLEARLY ILLUSTRATES HOW THEY WILL ACHIEVE THE INTENT DESCRIBED ABOVE.

THE CONTRACTOR IS REQUIRED TO PROVIDE ONE SUBMITTAL REGISTER FOR THE PROJECT THAT CONSOLIDATES REQUIREMENTS FOR BOTH VOLUME I AND VOLUME II. GENERAL REQUIREMENTS SHOULD ONLY BE COVERED ONCE.

GENERAL REQUIREMENTS THAT ARE COMMON BETWEEN THE VOLUME 1 AND VOLUME 2 (E.G. GENERAL SUPERINTENDENT) SHOULD BE INCLUDED IN CLIN 001.

GENERAL REQUIREMENTS THAT ARE COMMON FOR VOLUME 2 BASE BID AND ADDITIVE - 1 AND 2 (E.G. EQUIPMENT MOBILIZATION/DEMOBILIZATION, TRAFFIC CONTROL DEVICES) SHOULD BE INCLUDED IN CLIN002.

SHEET INDEX - VOLUME I

SHEET NO.	DRAWING NO.	SHEET TITLE
1	G-001	COVER SHEET
2	G-002	OVERALL IRRIGATION PHASING PLAN
3	G-101	CONSTRUCTION STAGING AREAS & SIGNAGE
4	V-001	OVERALL SITE SURVEY PLAN
5	V-101	TOPOGRAPHIC SURVEY & UTILITIES PLAN
6	V-102	TOPOGRAPHIC SURVEY & UTILITIES PLAN
7	V-103	TOPOGRAPHIC SURVEY & UTILITIES PLAN
8	V-104	TOPOGRAPHIC SURVEY & UTILITIES PLAN
9	V-105	TOPOGRAPHIC SURVEY & UTILITIES PLAN
10	V-106	TOPOGRAPHIC SURVEY & UTILITIES PLAN
11	D-001	OVERALL IRRIGATION DEMOLITION PLAN
12	D-101	IRRIGATION DEMOLITION PLAN
13	D-102	IRRIGATION DEMOLITION PLAN
14	D-103	IRRIGATION DEMOLITION PLAN
15	D-104	IRRIGATION DEMOLITION PLAN
16	D-105	IRRIGATION DEMOLITION PLAN
17	D-106	IRRIGATION DEMOLITION PLAN
18	LI001	IRRIGATION PLAN
19	LI101	IRRIGATION PLAN
20	LI102	IRRIGATION PLAN
21	LI103	IRRIGATION PLAN
22	LI104	IRRIGATION PLAN
23	LI105	IRRIGATION PLAN
24	LI106	IRRIGATION PLAN
25	LI501	IRRIGATION DETAILS 1
26	LI502	IRRIGATION DETAILS 2
27	LI503	IRRIGATION DETAILS 3
28	LI504	IRRIGATION DETAILS 4
29	LP101	PLANTING PLAN
30	E-101	ELECTRICAL SITE PLAN & DETAILS

SHEET INDEX - VOLUME II

SHEET NO.	DRAWING NO.	PURPOSE	SHEET TITLE
1	G-001	GENERAL	COVER SHEET
2	V-107	SURVEY	OVERALL SITE PLAN (SURVEY)
3	V-108	SURVEY	PLAN & PROFILE (BASELINE A) STATION 10+0 TO STATION 16+50
4	V-109	SURVEY	PLAN & PROFILE (BASELINE A) STATION 17+0 TO STATION 23+50
5	V-110	SURVEY	PLAN & PROFILE (BASELINE A) STATION 24+0 TO STATION 27+00
6	V-111	SURVEY	PLAN & PROFILE (BASELINE B) STATION 40+0 TO STATION 47+00
7	V-112	SURVEY	PLAN & PROFILE (BASELINE B) STATION 47+50 TO STATION 55+50
8	V-113	SURVEY	PLAN & PROFILE (BASELINE C) STATION 60+00 TO STATION 64+09.49
9	V-114	SURVEY	PLAN & PROFILE (BASELINE D) STATION 80+00 TO STATION 84+50
10	V-115	SURVEY	PLAN & PROFILE (BASELINE D) STATION 85+00 TO STATION 89+00
11	V-116	SURVEY	PLAN & PROFILE BASELINE E & BASELINE F
12	V-117	SURVEY	PLAN & PROFILE (BASELINE G) STATION 140+00 TO STATION 145+87.5
13	V-118	SURVEY	PLAN & PROFILE (BASELINE H) STATION 160+00 TO STATION 165+00
14	V-119	SURVEY	MAINTENANCE BUILDING AREA CROSS SECTIONS
15	V-120	SURVEY	ROAD CROSS SECTIONS BASELINE A
16	V-121	SURVEY	ROAD CROSS SECTIONS BASELINE A
17	V-122	SURVEY	ROAD CROSS SECTIONS BASELINE B
18	V-123	SURVEY	ROAD CROSS SECTIONS BASELINE C
19	V-124	SURVEY	ROAD CROSS SECTIONS BASELINE D
20	V-125	SURVEY	ROAD CROSS SECTIONS BASELINES E & F
* 21	V-127	SURVEY	ROAD CROSS SECTIONS BASELINE G
22	V-128	SURVEY	ROAD CROSS SECTIONS BASELINE H
23	D-101	DEMO	DEMOLITION PLAN
24	D-102	DEMO	DEMOLITION PLAN (BASELINE A) STATION 10+00 TO STATION 16+50
25	D-103	DEMO	DEMOLITION PLAN (BASELINE A) STATION 17+00 TO STATION 23+50
26	D-104	DEMO	DEMOLITION PLAN (BASELINE A) STATION 24+00 TO STATION 27+00
27	D-105	DEMO	DEMOLITION PLAN (BASELINE B) STATION 40+00 TO STATION 47+00
28	D-106	DEMO	DEMOLITION PLAN (BASELINE B) STATION 47+50 TO STATION 55+50
29	D-107	DEMO	DEMOLITION PLAN (BASELINE C) STATION 60+00 TO STATION 64+09.49
30	D-108	DEMO	DEMOLITION PLAN (BASELINE D) STATION 80+00 TO STATION 84+50
31	D-109	DEMO	DEMOLITION PLAN (BASELINE D) STATION 85+00 TO STATION 89+00
32	D-110	DEMO	DEMOLITION PLAN (BASELINE G) STATION 140+00 TO STATION 145+87.5
33	D-111	DEMO	DEMOLITION PLAN(BASELINE H) STATION 160+00 TO STATION 165+00
34	C-101	RENOVATION	ROAD RENOVATION OVERALL SITE PLAN
35	C-102	RENOVATION	PLAN & SECTION (BASELINE A) STATION 10+00 TO STATION 16+50
36	C-103	RENOVATION	PLAN & SECTION (BASELINE A) STATION 17+00 TO STATION 23+50
37	C-104	RENOVATION	PLAN & SECTION (BASELINE A) STATION 24+00 TO STATION 27+00
38	C-105	RENOVATION	PLAN & SECTION (BASELINE B) STATION 40+00 TO STATION 47+00
39	C-106	RENOVATION	PLAN & SECTION (BASELINE B) STATION 47+50 TO STATION 55+50
40	C-107	RENOVATION	PLAN & SECTION (BASELINE C) STATION 60+00 TO STATION 64+09.49
41	C-108	RENOVATION	PLAN & SECTION (BASELINE D) STATION 80+00 TO STATION 84+50
42	C-109	RENOVATION	PLAN & SECTION (BASELINE D) STATION 85+00 TO STATION 89+00
43	C-110	RENOVATION	PLAN & SECTION (BASELINE G) STATION 140+00 TO STATION 145+87.5
44	C-111	RENOVATION	PLAN & SECTION (BASELINE H) STATION 160+00 TO STATION 165+00
45	C-112	RENOVATION	EROSION AND SEDIMENT CONTROL PLAN
46	C-401	RENOVATION	GRADING AND DRAINAGE PLAN
47	C-402	RENOVATION	GRADING AND DRAINAGE PLAN
48	C-501	RENOVATION	ROAD RENOVATION SECTIONS AND DETAILS
49	C-502	RENOVATION	EROSION AND SEDIMENT CONTROL DETAILS

* NOTE: SHEET V-126 WAS NOT USED.

BID DOCUMENTS

Revisions:	Date:

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NO. 309
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5/19/2020

National Cemetery Administration Design and Construction Service

VA U.S. Department of Veterans Affairs

Drawing Title: OVERALL COVERSHEET

Phase: BID DOCUMENTS

Approved: Project Director
Steve Davis
Department of Veterans Affairs, NCA
Phone: 202.632.4833
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Project Title: BILOXI NATIONAL CEMETERY IRRIGATION REPLACEMENT & RECONSTRUCT ROADS AND INSTALL CURBS

Location: BILOXI, MS

Issue Date: 05/19/2020 | Checked: TM | Drawn: FITZ

Project Numbers: 832CM3032 832IC3033

Building Number: N/A

Drawing Number: G-000

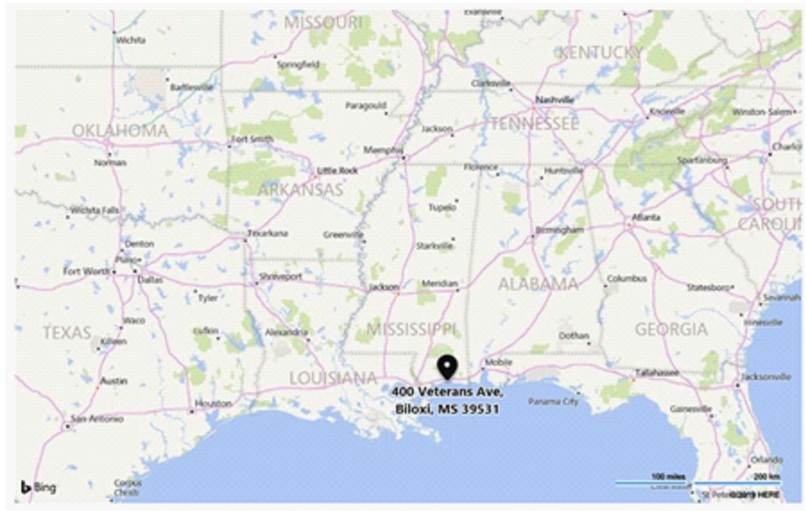
Sheet 1 of 1

VA FORM 08 - 6231

DEPARTMENT OF VETERANS AFFAIRS

BILOXI NATIONAL CEMETERY
VOLUME I
IRRIGATION REPLACEMENT

NCA PROJECT NO. 832CM3032
400 VETERANS AVE, BILOXI, MS 39531



AERIAL MAP N.T.S.

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GENERAL NOTES

1. TOPOGRAPHIC INFORMATION PROVIDED BY SURVEY PERFORMED BY BROWN & ROOT SURVEYORS DATED NOV. 2019. THE GENERAL CONTRACTOR SHALL VERIFY ALL SURVEY INFORMATION.
2. ALL ELEVATIONS ARE NAVD 88 VERTICAL DATUM BASED ON GPS OBSERVATION.
3. THE EXISTING UNDERGROUND UTILITIES SHOWN HEREON ARE BASED UPON AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL UTILITIES PRIOR TO BEGINNING ANY WORK. IF UTILITIES OTHER THAN THOSE SHOWN HEREON ARE ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE COR IMMEDIATELY AND TAKE APPROPRIATE MEASURES TO PROTECT THE LINE(S) AND ENSURE CONTINUED SERVICE. DAMAGE CAUSED TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL VERIFY THE CONNECTION POINTS OF NEW UTILITIES TO EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
4. THE CONTRACTOR SHALL INSTALL TREE PROTECTION BARRICADES PRIOR TO BEGINNING EARTHWORK OPERATIONS.
5. THE CONTRACTOR SHALL NOTIFY THE CO/COR IF UNSUITABLE MATERIAL IS DISCOVERED PRIOR TO BEGINNING ANY REMOVAL OPERATION. (SEE SPECIFICATION SECTION 31.20.00)
6. THE CONTRACTOR SHALL STABILIZE ALL DISTURBED AREA WITH SOD OR MULCH, WITHIN LIMITS OF DEMOLITION AND PROPOSED WORK. THIS INCLUDES STAGING AREA AND LAYDOWN AREAS.
7. CONTRACTOR SHALL GRADE ALL DISTURBED AREAS TO DRAIN FOR POSITIVE FLOW PRIOR TO FINAL APPROVAL.
8. THE DESIGN ADEQUACY AND SAFETY OF ALL BRACING, SHORING AND TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
9. IN PERFORMING CONSTRUCTION OBSERVATION VISITS TO THE JOB SITE, THE ENGINEER SHALL HAVE NEITHER CONTROL OVER NOR RESPONSIBILITY FOR THE CONTRACTOR'S MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES IN PERFORMING THE WORK.
10. THE CONTRACTOR'S MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES IN PERFORMING THE WORK IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR, WHO IS ALSO RESPONSIBLE FOR COMPLYING WITH ALL HEALTH AND SAFETY PRECAUTIONS AS REQUIRED BY ANY REGULATORY AGENCY.
11. MATERIAL QUANTITIES ARE ESTIMATED FOR INFORMATION PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES OF REPAIRED OR REPLACED MATERIALS.
12. THERE SHALL BE AT ALL TIMES, WHEN WORK IS BEING DONE, A COMPETENT PERSON WHO IS APPRISED OF THE CONDITION AND PROGRESS OF ALL AREAS OF WORK ON SITE. THIS COMPETENT PERSON SHALL BE ABLE TO SPEAK FOR AND ACT IN THE BEHALF OF THE CONTRACTOR. HE SHALL BE AWARE AND KNOWLEDGEABLE OF ALL THE SAFETY CONCERNS ON THE JOB SITE. HE SHALL BE EMPOWERED TO IMMEDIATELY AND EFFECTIVELY MITIGATE THE ACTIONS OF ANY WORKMAN ON SITE.
13. ACTIVITIES PERFORMED ON THIS PROJECT MUST COMPLY WITH THE REQUIREMENTS OF LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY CONSTRUCTION GENERAL PERMIT.

CODE OF CONDUCT

1. BURIAL CEREMONIES WILL BE SCHEDULED THROUGHOUT THE COURSE OF THIS PROJECT. COORDINATE DAILY ACTIVITIES WITH THE CEMETERY DIRECTOR OR HIS APPROVED REPRESENTATIVE TO ACCOMMODATE SCHEDULED BURIALS. CONTRACTOR SHALL OBTAIN THE SCHEDULE FOR THE NEXT DAY SERVICES PRIOR TO THE CLOSE OF BUSINESS EACH DAY. ALLOWABLE WORK TO BE DETERMINED BY THE CEMETERY DIRECTOR.
2. BECAUSE OF THE SENSITIVE NATURE OF THE CEMETERY SITE, CONTRACTOR SHALL MAINTAIN EACH WORK AREA IN A CLEAN AND ORDERLY APPEARANCE. TRASH AND WASTE MATERIALS SHALL BE STORED IN APPROVED CONTAINERS AND ROUTINELY DISPOSED OR OFF-SITE. CLEANUP SHALL BE REQUIRED AT THE END OF EACH DAY AND/OR MORE FREQUENTLY AS REQUIRED.
3. THE CONTRACTORS STAFF AND SUBCONTRACTORS STAFF SHALL NOT: DRESS IN SLEEVELESS SHIRTS OR SHORT PANTS, WEAR CLOTHING WITH INAPPROPRIATE LOGOS, PLAY MUSIC, TALK LOUD, PLACE PERSONAL ITEMS ON HEADSTONES, LEAN AGAINST OR SIT ON HEADSTONES.
4. THE EFFECT OF WORK ON PUBLIC ACCESS SHALL BE MINIMAL AND SHALL BE COORDINATED WITH THE CEMETERY DIRECTOR. ANY ALTERED PUBLIC TRAFFIC ROUTES SHALL BE WELL DEFINED WITH PROFESSIONALLY MADE SIGNAGE AND/OR OTHER APPROVED CONVENTIONAL METHODS.
5. DO NOT WORK UPON NOR STORE ANY MATERIALS ON OCCUPIED GRAVE PLOTS. ALL EFFORT WILL BE MADE TO MAINTAIN DISTANCE FROM OCCUPIED GRAVE PLOTS.

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Revisions:	Date:

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STATE OF NEW MEXICO
BRIAN J. VERARDO
NO. 309
REGISTERED LANDSCAPE ARCHITECT
5/19/20

National Cemetery Administration Design and Construction Service

VA U.S. Department of Veterans Affairs

Drawing Title: COVERSHEET
Phase: BID DOCUMENTS
Project Title: BILOXI NATIONAL CEMETERY VOLUME I IRRIGATION REPLACEMENT
Project Number: 832CM3032
Building Number: N/A
Location: BILOXI, MS
Drawing Number: G-001
Issue Date: 05/19/2020
Checked: TM
Drawn: SS
Sheet 1 of 30

Approved: Project Director
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BID DOCUMENTS

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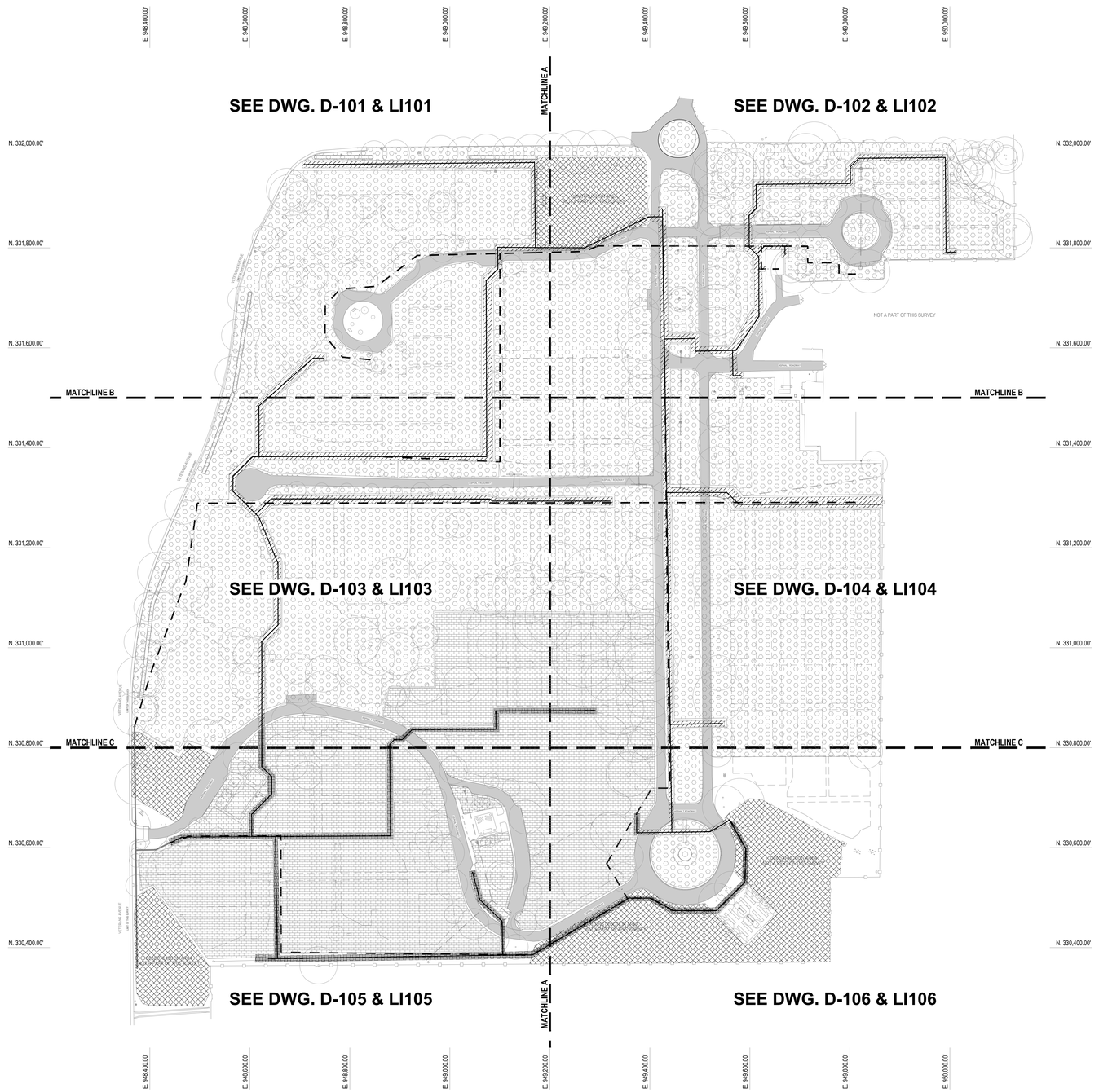

F1 OVERALL IRRIGATION PHASING PLAN
SCALE: 1"=30'-0"

CONSTRUCTION SEQUENCING LEGEND

THE FOLLOWING CONSTRUCTION SEQUENCING IS CONCEPTUAL. THE INTENT IS TO MINIMIZE THE DOWNSTREAM IMPACT OF FOREIGN OBJECTS OR DEBRIS ENTERING THE NEW IRRIGATION SYSTEM. ACTUAL PHASING WILL BE DETERMINED BY THE CONTRACTOR IN COORDINATION WITH THE VOLUME II ROADS PROJECT TO MINIMIZE DISRUPTION TO CEMETERY OPERATIONS.

PHASE 1 MAINLINE CONSTRUCTION:
- INSTALL NEW DECODER CONTROLLER AT PUMP HOUSE
- INSTALL TEE AT EXISTING POINT OF CONNECTION
- INSTALL NEW POINT OF CONNECTION ASSEMBLY DOWNSTREAM OF TEE
- INSTALL MAIN LINE
- INSTALL ISOLATION VALVES
- INSTALL DECODER WIRE
- INSTALL REMOTE CONTROL VALVE ASSEMBLIES
- CONNECT EXISTING VALVES IN NEW CONSTRUCTION AREA TO NEW MAIN LINE
- FINISH TRENCHES WITH SOD

PHASE 2 LATERAL ZONES CONSTRUCTION:
- DEMO/REMOVE EXISTING IRRIGATION SYSTEM COMPONENTS
- INSTALL FLOWER WATER STATIONS
- INSTALL ALL LATERALS
- INSTALL ALL HEADS
- FINISH TRENCHES WITH SOD

PHASE 3 MAINLINE CONSTRUCTION:
- INSTALL MAIN LINE
- INSTALL ISOLATION VALVES
- INSTALL DECODER WIRE
- INSTALL REMOTE CONTROL VALVE ASSEMBLIES
- CONNECT EXISTING VALVES IN NEW CONSTRUCTION AREA TO NEW MAIN LINE
- FINISH TRENCHES WITH SOD

PHASE 4 CONSTRUCTION:
- DEMO/REMOVE EXISTING IRRIGATION SYSTEM COMPONENTS
- INSTALL FLOWER WATER STATIONS
- INSTALL ALL LATERALS
- INSTALL ALL HEADS
- FINISH TRENCHES WITH SOD
- DEMO/REMOVE EXISTING IRRIGATION CONTROLLERS AT PUMP HOUSE & ADMIN BUILDING

HATCH AND SYMBOL LEGEND

- AREAS OF RECENT CONSTRUCTION – REFERENCE DEMOLITION AND IRRIGATION PLANS.
- EXISTING IRRIGATION MAINLINE TO BE ABANDONED OR REMOVED – REFERENCE DEMOLITION PLANS.
- EXISTING IRRIGATION MAINLINE TO REMAIN – REFERENCE IRRIGATION PLANS.
- NEW 8" PVC IRRIGATION MAINLINE – REFERENCE IRRIGATION PLANS.

BID DOCUMENTS

Revisions:	Date:

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5/19/2020

National Cemetery Administration
Design and Construction Service
VA U.S. Department of Veterans Affairs

Drawing Title: OVERALL IRRIGATION PHASING PLAN
Phase: BID DOCUMENTS
Project Title: BILOXI NATIONAL CEMETERY VOLUME I IRRIGATION REPLACEMENT
Project Number: 832CM3032
Building Number: N/A
Approved: Project Director
Steve Davis
Department of Veterans Affairs, NCA
Phone: 202.632.4833
Email: steve.davis@va.gov
Location: BILOXI, MS
Drawing Number: G-002
Issue Date: 05/19/2020
Checked: BJV
Drawn: BJV/JKS
Sheet 2 of 30

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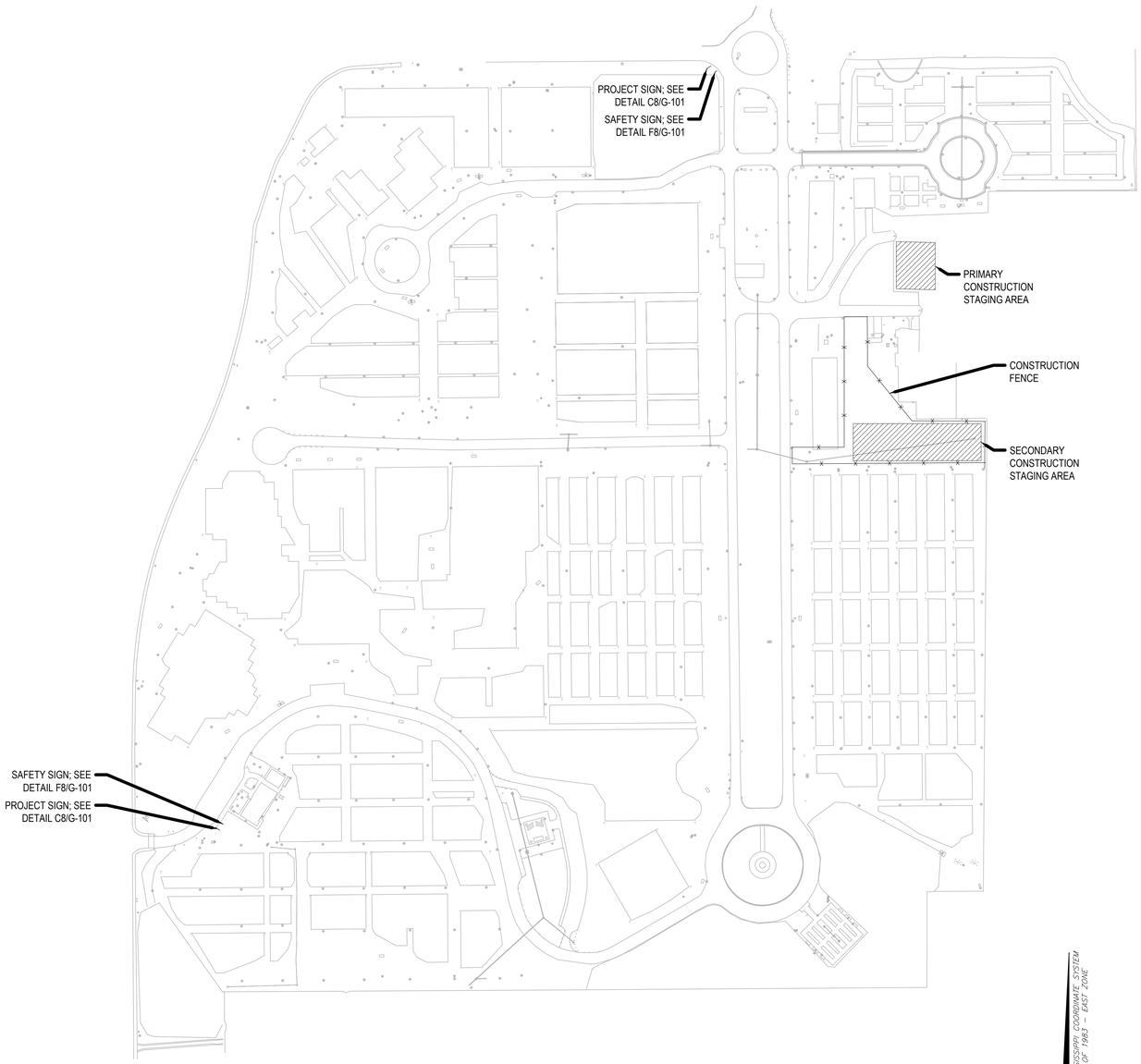
LEGEND

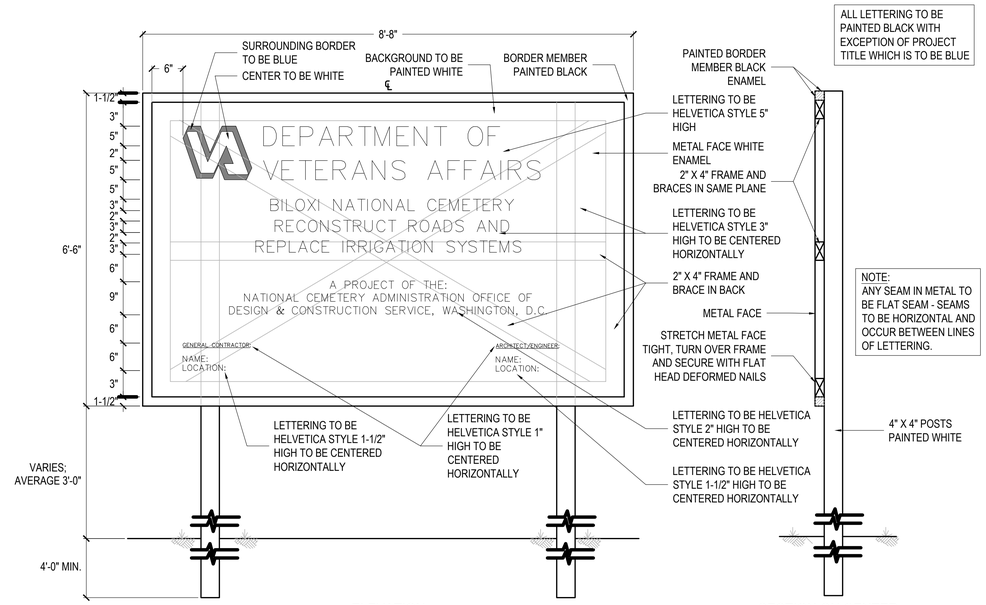
CONSTRUCTION STAGING AREA

PROJECT & SAFETY SIGNAGE

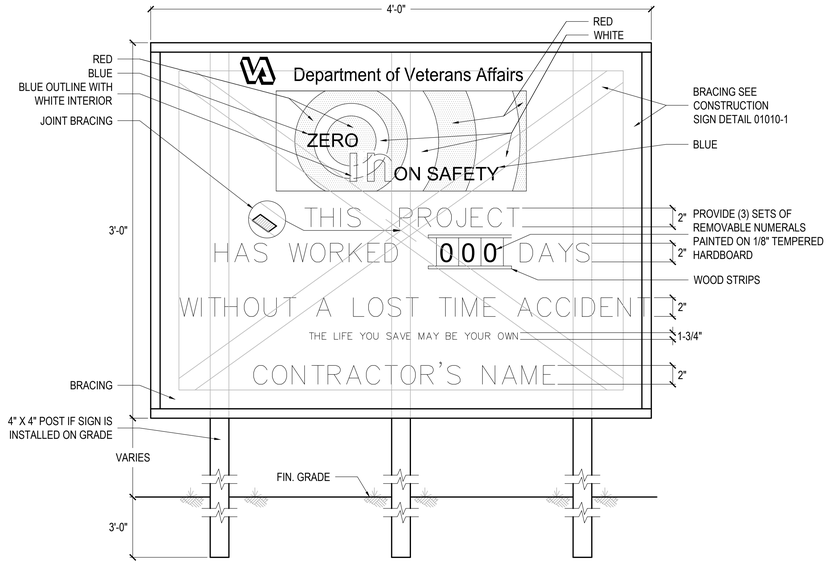
CONSTRUCTION FENCE



F3 CONSTRUCTION STAGING AREA & SIGNAGE
1" = 30'-0"



C8 PROJECT SIGN
N.T.S.



F8 SAFETY SIGN
N.T.S.

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126 TERRA BELLA BLVD, SUITE B, COVINGTON, LA 70433
504.378.7384; RICH ENDRISS

STAMP

STATE OF NEW MEXICO
BRIAN J. VERARDO
NO. 309
REGISTERED LANDSCAPE ARCHITECT
07/17/20

National Cemetery Administration Design and Construction Service

VA U.S. Department of Veterans Affairs

Drawing Title: CONSTRUCTION STAGING AREAS & SIGNAGE

Phase: BID DOCUMENTS

Project Title: BILOXI NATIONAL CEMETERY VOLUME I IRRIGATION REPLACEMENT

Project Number: 832CM3032

Building Number: N/A

Location: BILOXI, MS

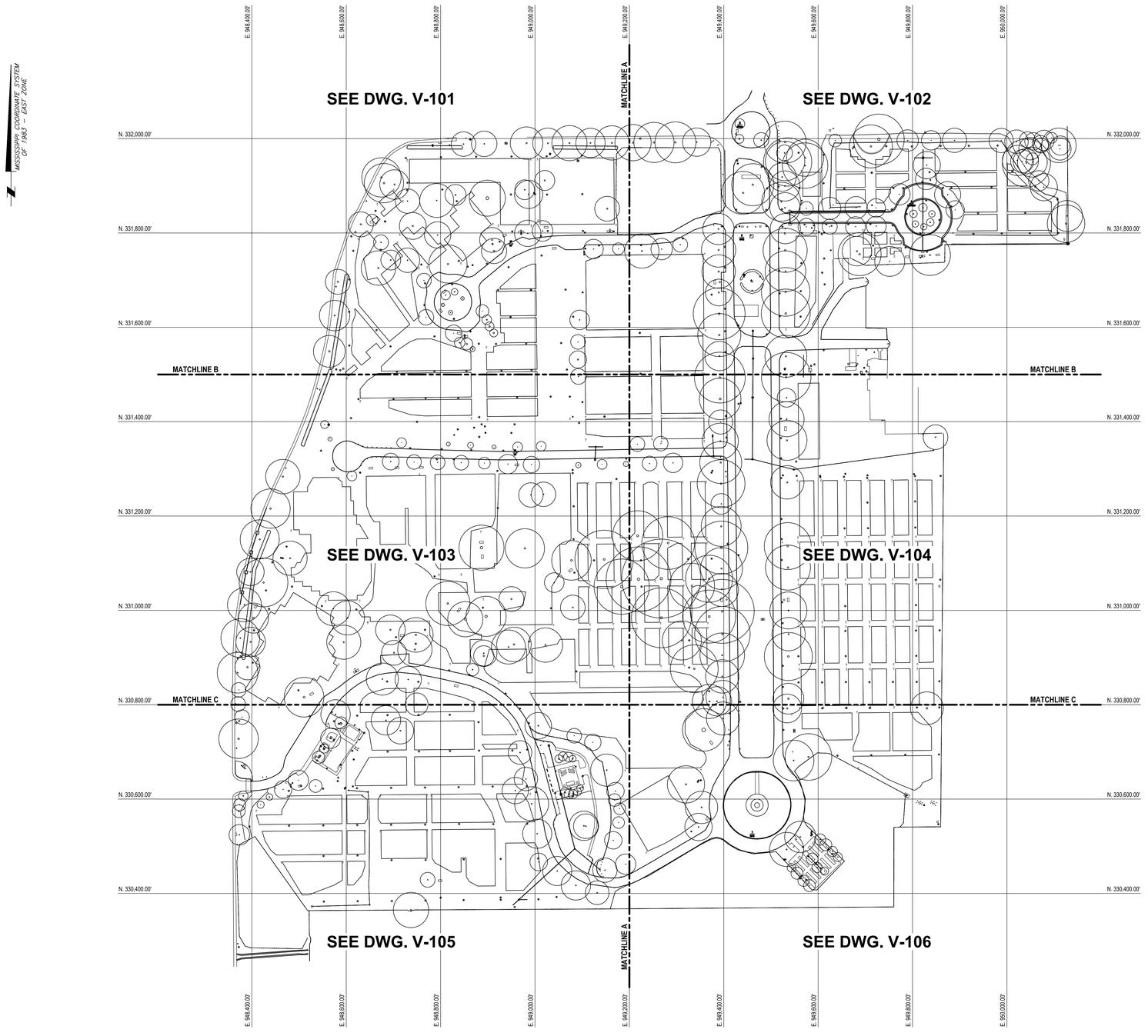
Drawing Number: G-101

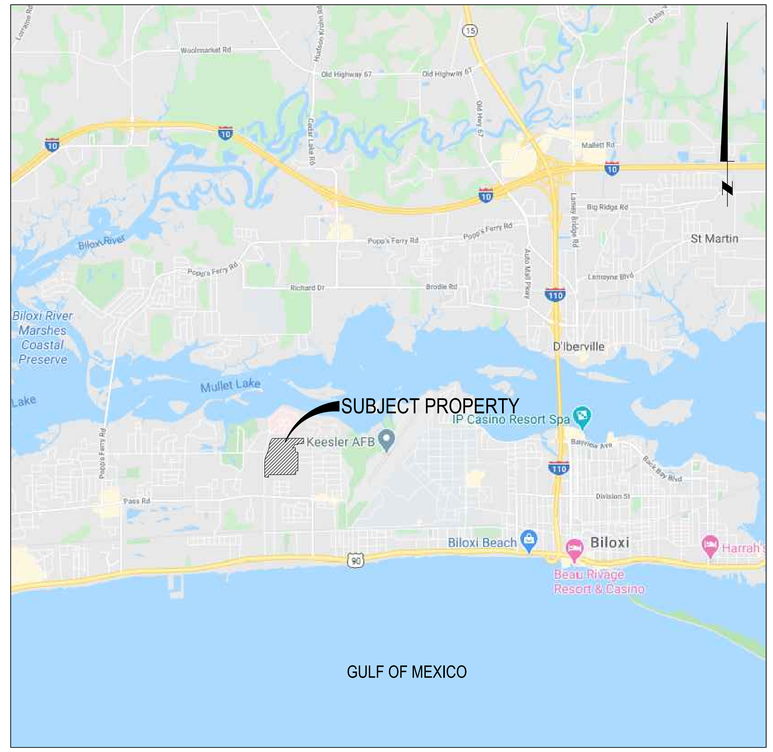
Approved: Project Director
Steve Davis
Department of Veterans Affairs, NCA
Phone: 202.632.4833
Email: steve.davis@va.gov

Issue Date	Checked	Drawn
05/19/2020	PT	CK

Sheet 3 of 30

VA FORM 08 - 6231





VICINITY MAP

NOT TO SCALE

LEGEND

- SPRINKLER
- VALVE BOX
- VALVE
- WATER SPIGOT
- SIGN
- LIGHT POLE
- TELEPHONE PEDESTAL
- FIRE HYDRANT
- FLAG POLE
- SEWER CLEANOUT
- SEWER MANHOLE
- TELEPHONE MANHOLE
- ELECTRIC MANHOLE
- DRAIN MANHOLE
- WATER MANHOLE
- CATCH BASIN
- GRAVE SECTION MARKER
- CHAIN LINK FENCE
- IRON FENCE
- F-OP BURIED FIBER OPTIC LINE

NOTES:

1. ELEVATIONS SHOWN ARE NAVD88 (GEOID12B) AND MISSISSIPPI STATE PLANE COORDINATE SYSYETM OF 1983 - EAST ZONE BASED ON GPS STATIC OBSERVATION (U.S. SURVEY FOOT).
2. FIELD WORK CONDUCTED FROM OCTOBER 24, 2019 TO NOVEMBER 19, 2019.
3. THIS IS NOT A BOUNDARY SURVEY.

CONTROL POINTS:

GPS1
N: 330528.04
E: 949460.08
Elev: 22.82
Desc: Iron Rod

GPS2
N: 331792.85
E: 949438.19
Elev: 23.50
Desc: Iron Rod

30 0 30 60 90
SCALE IN FEET

BID DOCUMENTS

Revisions:	Date:

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PRIME CONSULTANT

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DANIEL THOMAS SMITH — LICENSED PROFESSIONAL SURVEYOR — PS-3071 — 4-1-2020 — STATE OF MISSISSIPPI

National Cemetery Administration Design and Construction Service

VA U.S. Department of Veterans Affairs

Drawing Title: SURVEY OVERALL SITE PLAN

Phase: BID DOCUMENTS

Approved: Project Director
Steve Davis
Department of Veterans Affairs, NCA

Phone: 202.632.4833
Email: steve.davis@va.gov

Project Title: BILOXI NATIONAL CEMETERY VOLUME I IRRIGATION REPLACEMENT

Location: BILOXI, MS

Issue Date: 05/19/2020

Checked: D.T.S

Drawn: B.J.O.

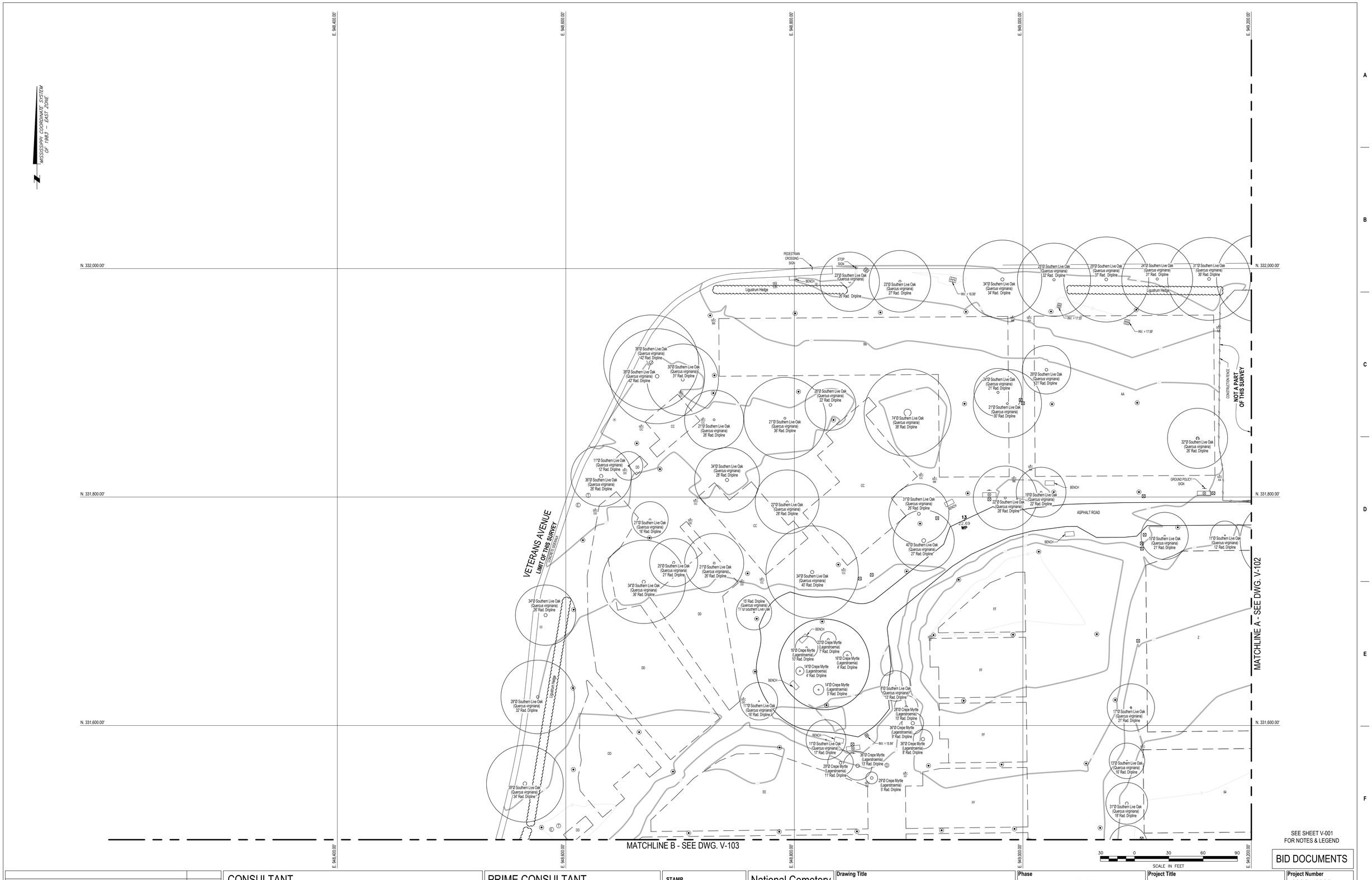
Project Number: 832CM3032

Building Number: N/A

Drawing Number: V-001

Sheet 4 of 30

VA FORM 08 - 6231



SEE SHEET V-001
FOR NOTES & LEGEND

BID DOCUMENTS

Revisions:	Date:

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DANIEL THOMAS SMITH
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PS-3071
4-1-2020
STATE OF MISSISSIPPI

National Cemetery Administration Design and Construction Service

VA U.S. Department of Veterans Affairs

Drawing Title
TOPOGRAPHIC & SITE SURVEY PLAN

Approved: Project Director
Steve Davis
Department of Veterans Affairs, NCA

Phone: 202.632.4833
Email: steve.davis@va.gov

Phase
BID DOCUMENTS

Project Title
BILOXI NATIONAL CEMETERY
VOLUME I
IRRIGATION REPLACEMENT

Location
BILOXI, MS

Issue Date	Checked	Drawn
05/19/2020	D.T.S	B.J.O.

Project Number
832CM3032

Building Number
N/A

Drawing Number
V-101

Sheet 5 of 30

VA FORM 08 - 6231

MISSISSIPPI COORDINATE SYSTEM
OF 1983 – EAST ZONE

E. 949,200.00'
E. 949,400.00'
E. 949,600.00'
E. 949,800.00'
E. 950,000.00'
N. 332,000.00'
N. 331,800.00'
N. 331,600.00'

MATCHLINE A - SEE DWG. V-101

CONSTRUCTION AREA
NOT A PART OF THIS SURVEY

NOT A PART OF THIS SURVEY

MATCHLINE B - SEE DWG. V-104

SEE SHEET V-001
FOR NOTES & LEGEND

SCALE IN FEET
30 0 30 60 90

BID DOCUMENTS

Revisions:	Date:

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PS-3071
STATE OF MISSISSIPPI

National Cemetery Administration
Design and Construction Service

VA U.S. Department of Veterans Affairs

Drawing Title
TOPOGRAPHIC & SITE SURVEY PLAN

Phase
BID DOCUMENTS

Project Title
BILOXI NATIONAL CEMETERY
VOLUME I
IRRIGATION REPLACEMENT

Project Number
832CM3032

Building Number
N/A

Drawing Number
V-102

Location
BILOXI, MS

Issue Date
05/19/2020

Checked
D.T.S

Drawn
B.J.O.

Sheet 6 of 30

Approved: Project Director
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Department of Veterans Affairs, NCA

Phone: 202.632.4833
Email: steve.davis@va.gov

VA FORM 08 - 6231

MISSISSIPPI COORDINATE SYSTEM OF 1983 – EAST ZONE

MATCHLINE B - SEE DWG. V-101

E. 948,400.00' | E. 948,600.00' | E. 948,800.00' | E. 949,000.00' | E. 949,200.00'

N. 331,400.00'

N. 331,200.00'

N. 331,000.00'

N. 330,800.00'

VETERANS AVENUE

LIMIT OF THIS SURVEY

CONCRETE ROAD

Utility Pole

STREET LIGHT ELEC. BOX

BOLLARD (TYP.)

ASPHALT ROADWAY

POLICY SIGN

SPEED LIMIT SIGN

BENCH

BENCH (MISSING)

9"Ø Southern Magnolia (Magnolia grandiflora) 8' Rad. Dripline

10"Ø Southern Magnolia (Magnolia grandiflora) 4' Rad. Dripline

7"Ø Southern Magnolia (Magnolia grandiflora) 3' Rad. Dripline

8"Ø Southern Magnolia (Magnolia grandiflora) 10' Rad. Dripline

36"Ø Southern Live Oak (Quercus virginiana) 36' Rad. Dripline

38"Ø Southern Live Oak (Quercus virginiana) 42' Rad. Dripline

32"Ø Southern Live Oak (Quercus virginiana) 41' Rad. Dripline

25"Ø Southern Live Oak (Quercus virginiana) 29' Rad. Dripline

29"Ø Southern Live Oak (Quercus virginiana) 38' Rad. Dripline

36"Ø Southern Live Oak (Quercus virginiana) 52' Rad. Dripline

24"Ø Southern Live Oak (Quercus virginiana) 36' Rad. Dripline

32"Ø Southern Live Oak (Quercus virginiana) 32' Rad. Dripline

26"Ø Southern Live Oak (Quercus virginiana) 41' Rad. Dripline

23"Ø Southern Live Oak (Quercus virginiana) 31' Rad. Dripline

40"Ø Southern Live Oak (Quercus virginiana) 27' Rad. Dripline

28"Ø Southern Live Oak (Quercus virginiana) 43' Rad. Dripline

9"Ø Southern Live Oak (Quercus virginiana) 15' Rad. Dripline

16' Rad. Dripline (Quercus virginiana) 15"Ø Southern Live Oak

47"Ø Southern Live Oak (Quercus virginiana) 42' Rad. Dripline

23"Ø Southern Live Oak (Quercus virginiana) 35' Rad. Dripline

26"Ø Southern Live Oak (Quercus virginiana) 36' Rad. Dripline

26"Ø Southern Live Oak (Quercus virginiana) 36' Rad. Dripline

22"Ø Southern Live Oak (Quercus virginiana) 34' Rad. Dripline

20"Ø Southern Live Oak (Quercus virginiana) 28' Rad. Dripline

26"Ø Southern Live Oak (Quercus virginiana) 24' Rad. Dripline

34"Ø Southern Live Oak (Quercus virginiana) 31' Rad. Dripline

31"Ø Southern Live Oak (Quercus virginiana) 26' Rad. Dripline

35"Ø Southern Live Oak (Quercus virginiana) 37' Rad. Dripline

32"Ø Southern Live Oak (Quercus virginiana) 36' Rad. Dripline

7"Ø Southern Live Oak (Quercus virginiana) 10' Rad. Dripline

17"Ø Southern Live Oak (Quercus virginiana) 18' Rad. Dripline

10"Ø Southern Live Oak (Quercus virginiana) 15' Rad. Dripline

12"Ø Southern Live Oak (Quercus virginiana) 16' Rad. Dripline

12"Ø Southern Live Oak (Quercus virginiana) 16' Rad. Dripline

10"Ø Southern Live Oak (Quercus virginiana) 12' Rad. Dripline

13"Ø Southern Live Oak (Quercus virginiana) 21' Rad. Dripline

11"Ø Southern Live Oak (Quercus virginiana) 17' Rad. Dripline

15"Ø Southern Live Oak (Quercus virginiana) 17' Rad. Dripline

4"Ø Southern Live Oak (Quercus virginiana) 4' Rad. Dripline

4"Ø Southern Live Oak (Quercus virginiana) 6' Rad. Dripline

6"Ø Southern Live Oak (Quercus virginiana) 4' Rad. Dripline

9"Ø Southern Live Oak (Quercus virginiana) 10' Rad. Dripline

6"Ø Southern Live Oak (Quercus virginiana) 10' Rad. Dripline

9"Ø Southern Live Oak (Quercus virginiana) 6' Rad. Dripline

9"Ø Southern Live Oak (Quercus virginiana) 10' Rad. Dripline

7"Ø Southern Live Oak (Quercus virginiana) 5' Rad. Dripline

INV. = 12.66'

INV. = 12.89'

INV. = 14.14'

INV. = 13.22'

INV. = 13.88'

18"Ø HDPE

18"Ø RCP

12"Ø HDPE

19'-39' WP

19"Ø Southern Live Oak (Quercus virginiana) 26' Rad. Dripline

27"Ø Southern Live Oak (Quercus virginiana) 26' Rad. Dripline

65"Ø Southern Live Oak (Quercus virginiana) 48' Rad. Dripline

38"Ø Southern Live Oak (Quercus virginiana) 42' Rad. Dripline

41"Ø Southern Live Oak (Quercus virginiana) 47' Rad. Dripline

52"Ø Southern Live Oak (Quercus virginiana) 37' Rad. Dripline

32"Ø Southern Live Oak (Quercus virginiana) 26' Rad. Dripline

61"Ø Southern Live Oak (Quercus virginiana) 43' Rad. Dripline

25"Ø Southern Live Oak (Quercus virginiana) 28' Rad. Dripline

38"Ø Southern Live Oak (Quercus virginiana) 22' Rad. Dripline

23"Ø Southern Live Oak (Quercus virginiana) 13' Rad. Dripline

38"Ø Southern Live Oak (Quercus virginiana) 37' Rad. Dripline

26"Ø Southern Live Oak (Quercus virginiana) 36' Rad. Dripline

34"Ø Southern Live Oak (Quercus virginiana) 36' Rad. Dripline

46"Ø Southern Live Oak (Quercus virginiana) 42' Rad. Dripline

19"Ø Southern Live Oak (Quercus virginiana) 21' Rad. Dripline

45"Ø Southern Live Oak (Quercus virginiana) 62' Rad. Dripline

61"Ø Southern Live Oak (Quercus virginiana) 59' Rad. Dripline

27"Ø Southern Live Oak (Quercus virginiana) 26' Rad. Dripline

MATCHLINE A - SEE DWG. V-104

MATCHLINE C - SEE DWG. V-105

SEE SHEET V-001 FOR NOTES & LEGEND

SCALE IN FEET 30 0 30 60 90

BID DOCUMENTS

Revisions:	Date:

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STAMP

DANIEL THOMAS SMITH — LICENSED PROFESSIONAL SURVEYOR — PS-3071 — 5-1-2020 — STATE OF MISSISSIPPI

National Cemetery Administration Design and Construction Service

VA U.S. Department of Veterans Affairs

Drawing Title: TOPOGRAPHIC & SITE SURVEY PLAN

Approved: Project Director
Steve Davis
Department of Veterans Affairs, NCA
Phone: 202.632.4833
Email: steve.davis@va.gov

Phase: BID DOCUMENTS

Project Title: BILOXI NATIONAL CEMETERY VOLUME I IRRIGATION REPLACEMENT

Location: BILOXI, MS

Issue Date: 05/19/2020 | Checked: D.T.S | Drawn: B.J.O.

Project Number: 832CM3032

Building Number: N/A

Drawing Number: V-103

Sheet 7 of 30

VA FORM 08 - 6231

MISSISSIPPI COORDINATE SYSTEM OF 1983 – EAST ZONE

MATCHLINE B - SEE DWG. V-102

MATCHLINE A - SEE DWG. V-103

MATCHLINE C - SEE DWG. V-106

E. 949,200.00'
E. 949,400.00'
E. 949,600.00'
E. 949,800.00'
E. 950,000.00'

N. 331,400.00'
N. 331,200.00'
N. 331,000.00'
N. 330,800.00'

ASPHALT ROADWAY
ASPHALT ROADWAY
ASPHALT ROADWAY

MAINTENANCE BUILDING

43"Ø Southern Live Oak (Quercus virginiana) 54' Rad. Dripline
47"Ø Southern Live Oak (Quercus virginiana) 44' Rad. Dripline
WRONG WAY SIGN
15"Ø Rad. Dripline (Quercus virginiana) 10'+/- southern Live Oak
9"Ø Southern Live Oak (Quercus virginiana)" 15' Rad. Dripline
14"Ø Southern Live Oak (Quercus virginiana) 25' Rad. Dripline
FILLED WITH CONCRETE
INV. = 16.58'
30"Ø Southern Live Oak (Quercus virginiana) 36' Rad. Dripline
12"Ø RCP
12"Ø RCP
STOP SIGN
15"Ø Southern Live Oak (Quercus virginiana) 16' Rad. Dripline
15"Ø Southern Live Oak (Quercus virginiana) 21' Rad. Dripline
34"Ø Southern Live Oak (Quercus virginiana) 44' Rad. Dripline
SPEED LIMIT SIGN
38"Ø Southern Live Oak (Quercus virginiana) 57' Rad. Dripline
20"Ø Southern Live Oak (Quercus virginiana) 22' Rad. Dripline
51"Ø Southern Live Oak (Quercus virginiana) 53' Rad. Dripline
44"Ø Southern Live Oak (Quercus virginiana) 56' Rad. Dripline
31"Ø Southern Live Oak (Quercus virginiana) 42' Rad. Dripline
50"Ø Southern Live Oak (Quercus virginiana) 66' Rad. Dripline
32"Ø Southern Live Oak (Quercus virginiana) 44' Rad. Dripline
66"Ø Southern Live Oak (Quercus virginiana) 69' Rad. Dripline
63"Ø Southern Live Oak (Quercus virginiana) 84' Rad. Dripline
42"Ø Southern Live Oak (Quercus virginiana) 48' Rad. Dripline
40"Ø Southern Live Oak (Quercus virginiana) 57' Rad. Dripline
27"Ø Southern Live Oak (Quercus virginiana) 35' Rad. Dripline
BENCH
GARBAGE CAN
57"Ø Southern Live Oak (Quercus virginiana) 63' Rad. Dripline
41"Ø Southern Live Oak (Quercus virginiana) 56' Rad. Dripline
34"Ø Southern Live Oak (Quercus virginiana) 41' Rad. Dripline
40"Ø Southern Live Oak (Quercus virginiana) 59' Rad. Dripline
30"Ø Southern Live Oak (Quercus virginiana) 47' Rad. Dripline
39"Ø Southern Live Oak (Quercus virginiana) 51' Rad. Dripline
31"Ø Southern Live Oak (Quercus virginiana) 35' Rad. Dripline
18"Ø Southern Live Oak (Quercus virginiana) 36' Rad. Dripline
29"Ø Southern Live Oak (Quercus virginiana) 36' Rad. Dripline
25"Ø Southern Live Oak (Quercus virginiana) 31' Rad. Dripline
36"Ø Southern Live Oak (Quercus virginiana) 52' Rad. Dripline
21"Ø Southern Live Oak (Quercus virginiana) 20' Rad. Dripline
28"Ø Southern Live Oak (Quercus virginiana) 37' Rad. Dripline
BENCH
31"Ø Southern Live Oak (Quercus virginiana) 42' Rad. Dripline
26"Ø Cedar (Juniperus virginiana) 26' Rad. Dripline
6"Ø HDPE
INV. = 14.97'
8"Ø HDPE
8"Ø HDPE
33"Ø Southern Live Oak (Quercus virginiana) 35' Rad. Dripline
SPEED LIMIT SIGN
47"Ø Southern Live Oak (Quercus virginiana) 50' Rad. Dripline
40"Ø Southern Live Oak (Quercus virginiana) 48' Rad. Dripline
BENCH
GARBAGE CAN
30"Ø Southern Live Oak (Quercus virginiana) 39' Rad. Dripline
31"Ø Southern Live Oak (Quercus virginiana) 35' Rad. Dripline
46"Ø Southern Live Oak (Quercus virginiana) 51' Rad. Dripline
40"Ø Southern Live Oak (Quercus virginiana) 33' Rad. Dripline
IRON FENCE
12"Ø RCP
12"Ø HDPE
18"Ø RCP

SEE SHEET V-001 FOR NOTES & LEGEND

SCALE IN FEET
30 0 30 60 90

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Revisions:	Date:

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DANIEL THOMAS SMITH — LICENSED PROFESSIONAL SURVEYOR — PLS-3071 — 4-1-2020 — STATE OF MISSISSIPPI

National Cemetery Administration Design and Construction Service

VA U.S. Department of Veterans Affairs

Drawing Title: TOPOGRAPHIC & SITE SURVEY PLAN

Phase: BID DOCUMENTS

Project Title: BILOXI NATIONAL CEMETERY VOLUME I IRRIGATION REPLACEMENT

Project Number: 832CM3032

Building Number: N/A

Drawing Number: V-104

Approved: Project Director
Steve Davis
Department of Veterans Affairs, NCA

Phone: 202.632.4833
Email: steve.davis@va.gov

Location: BILOXI, MS

Issue Date: 05/19/2020 | **Checked:** D.T.S | **Drawn:** B.J.O.

Sheet 8 of 30

VA FORM 08 - 6231

MISSISSIPPI COORDINATE SYSTEM OF 1983 – EAST ZONE

MATCHLINE C - SEE DWG. V-103

MATCHLINE A - SEE DWG. V-106

VETERANS AVENUE

LIMIT OF THIS SURVEY

CONCRETE SIDEWALK

CONSTRUCTION AREA
NOT A PART OF THIS SURVEY

ASPHALT ROADWAY

ADMINISTRATION BUILDING

RESTROOM

LODGE

COMMITTAL SHELTER

BOLLARD (TYP.)

POWER BOX

ELEC. BOX

BRICK SIGN

BRICK LANDSCAPING

ENTRANCE SIGN

STOP SIGN

SPEED LIMIT SIGN

VISITOR SIGN

DO NOT ENTER SIGN

COMMITTAL SIGN

BENCH

FIBER OPTIC BOX

UNDERGROUND FIBER OPTIC

F–OP

IRON FENCE

CONSTRUCTION FENCE

GAS VALVE BOX

DITCH

SEE SHEET V-001
FOR NOTES & LEGEND

SCALE IN FEET

BID DOCUMENTS

Revisions:	Date:

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STAMP

DANIEL THOMAS SMITH — LICENSED PROFESSIONAL — PS-9071 — SURVEYOR — STATE OF MISSISSIPPI — 4-1-2020

National Cemetery Administration Design and Construction Service

VA U.S. Department of Veterans Affairs

Drawing Title: TOPOGRAPHIC & SITE SURVEY PLAN

Phase: BID DOCUMENTS

Project Title: BILOXI NATIONAL CEMETERY VOLUME I IRRIGATION REPLACEMENT

Project Number: 832CM3032

Building Number: N/A

Drawing Number: V-105

Approved: Project Director
Steve Davis
Department of Veterans Affairs, NCA

Phone: 202.632.4833
Email: steve.davis@va.gov

Location: BILOXI, MS

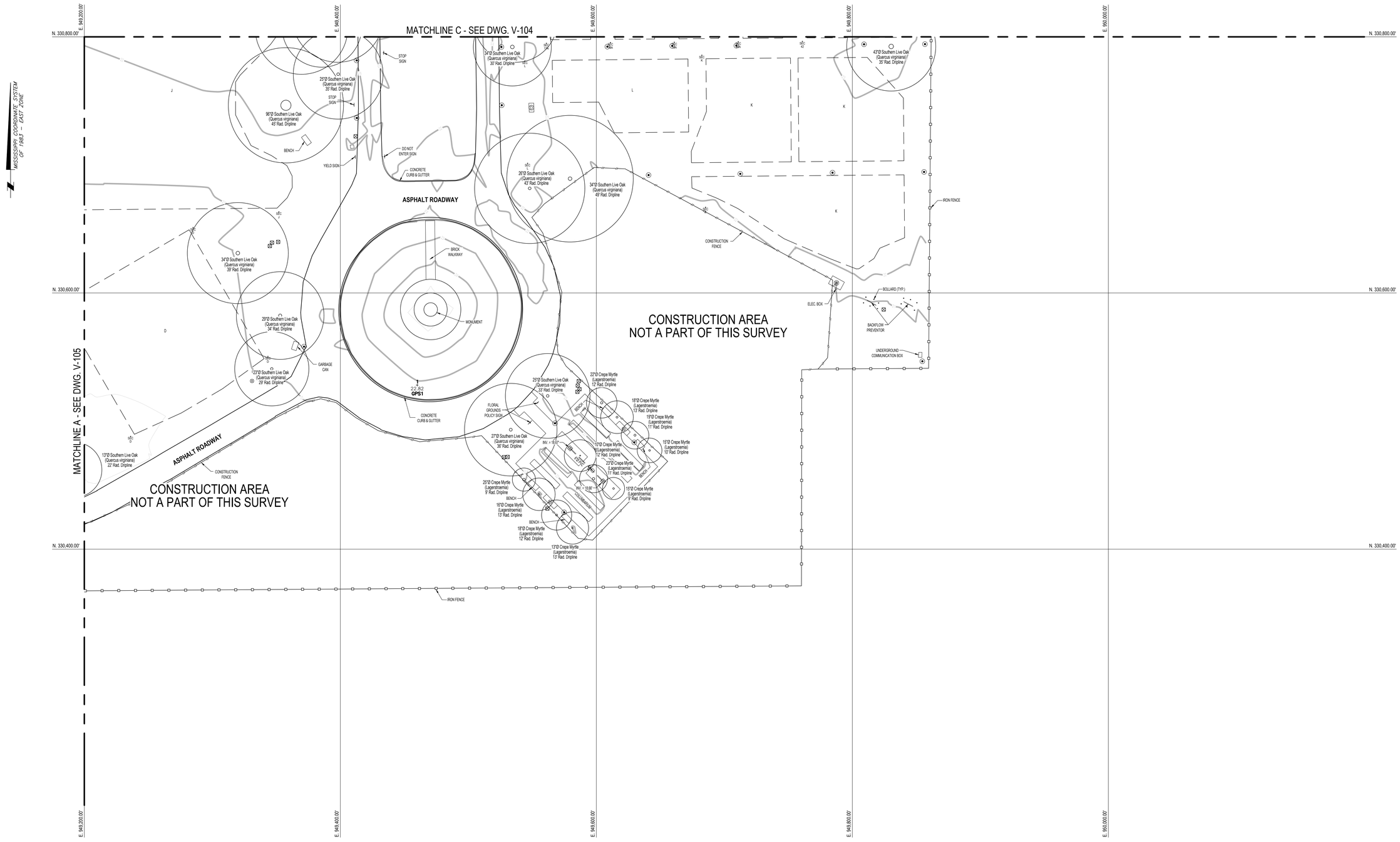
Issue Date: 05/19/2020

Checked: D.T.S

Drawn: B.J.O.

Sheet 9 of 30

VA FORM 08 - 6231



SEE SHEET V-001
FOR NOTES & LEGEND

30 0 30 60 90
SCALE IN FEET

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STAMP

DANIEL THOMAS SMITH
LICENSED PROFESSIONAL SURVEYOR
PS-3071
4-1-2020
STATE OF MISSISSIPPI

National Cemetery Administration Design and Construction Service

VA U.S. Department of Veterans Affairs

Drawing Title
TOPOGRAPHIC & SITE SURVEY PLAN

Approved: Project Director
Steve Davis
Department of Veterans Affairs, NCA

Phone: 202.632.4833
Email: steve.davis@va.gov

Phase
BID DOCUMENTS

Project Title
BILOXI NATIONAL CEMETERY
VOLUME I
IRRIGATION REPLACEMENT

Location
BILOXI, MS

Issue Date	Checked	Drawn
05/19/2020	D.T.S	B.J.O.

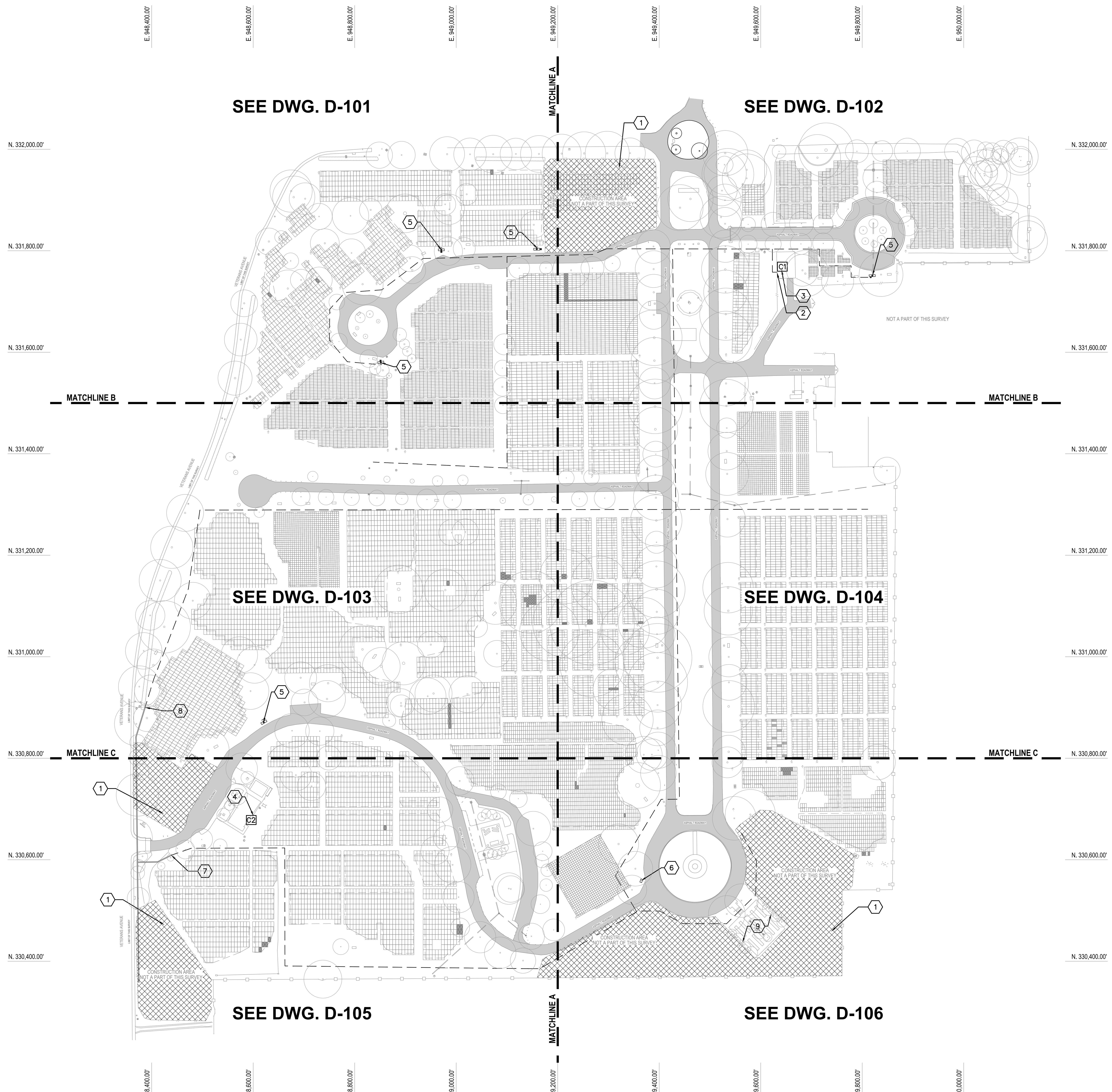
Project Number
832CM3032

Building Number
N/A

Drawing Number
V-106

Sheet 10 of 30

VA FORM 08 - 6231



F1 OVERALL IRRIGATION DEMOLITION PLAN

SCALE: 1"=30'-0"

0 100' 200'

IRRIGATION DEMOLITION KEYED NOTES

1. AREAS OF RECENT CONSTRUCTION. REMOVE EXISTING MAINLINE WITHIN NEW CONSTRUCTION AREAS UNLESS OTHERWISE NOTED. PROTECT EXISTING VALVES, LATERALS, AND HEADS UNLESS OTHERWISE NOTED. VALVES TO REMAIN SHALL BE CONNECTED TO NEW MAINLINE – REFERENCE IRRIGATION PLANS, SHEETS LI101, LI102, LI105 AND LI106. EXISTING LINE ROUTING AND VALVE LOCATIONS ARE BASED ON DESIGN DRAWINGS AND WILL NEED TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
2. PUMP HOUSE AND POINT OF CONNECTION FOR WELL SUPPLY TO IRRIGATION SYSTEM.
3. EXISTING CONTROLLER #1 LOCATED AT PUMP HOUSE TO BE REMOVED.
4. EXISTING CONTROLLER #2 LOCATED AT ADMINISTRATION BUILDING TO BE REMOVED.
5. EXISTING FLOWER WATER STATION WITH RECEPTACLES SUITABLE FOR REUSE. REMOVE AND DISPOSE OF CONCRETE SLAB, VALVE BOX ASSEMBLY, AND HYDRANT. SALVAGE EXISTING TRASH RECEPTACLE AND FLOWER VASE HOLDER FOR REINSTALLATION IN NEW LOCATIONS (REFERENCE IRRIGATION PLANS).
6. EXISTING FLOWER WATER STATION WITH RECEPTACLES NOT SUITABLE FOR REUSE. REMOVE AND DISPOSE OF CONCRETE SLAB, TRASH RECEPTACLE, AND FLOWER VASE HOLDER.
7. CUT EXISTING MAINLINE THIS LOCATION – PROTECT FROM DAMAGE UNTIL NEW MAINLINE CAN BE INSTALLED AND CONNECTED – REFERENCE SHEET LI105.
8. CUT AND CAP EXISTING MAINLINE AT THIS LOCATION.
9. EXISTING FLOWER WATER STATION AT COLUMBARIUM. REMOVE AND DISPOSE OF CONCRETE SLAB, VALVE BOX ASSEMBLY, AND HYDRANT. SALVAGE EXISTING TRASH RECEPTACLE AND FLOWER VASE RECEPTACLE.

IRRIGATION DEMOLITION GENERAL NOTES

A. ALL EXISTING SUB–SURFACE IRRIGATION MAINLINE AND LATERAL PIPING WITHIN CEMETERY SHALL BE ABANDONED IN PLACE, UNLESS REMOVAL IS NECESSARY TO INSTALL MAINLINE OR LATERAL PIPING FOR THE NEW SYSTEM.
B. ANY AND ALL EXISTING AT GRADE LEVEL, ABOVE GRADE LEVEL AND BELOW GRADE LEVEL IRRIGATION EQUIPMENT (RISERS, FITTINGS, SPRINKLERS, VALVE BOXES, ETC.) SHALL BE REMOVED, UNLESS INDICATED OTHERWISE. CONTRACTOR SHALL SALVAGE AND RETURN TO THE GOVERNMENT ALL SPRINKLER HEADS AND RISERS/SWING JOINTS.
C. EXISTING IRRIGATION EQUIPMENT SHOWN WITHIN PROJECT AREA IS BASED ON BEST AS–BUILT INFORMATION AVAILABLE. CONTRACTOR SHALL VERIFY ACCURACY IN FIELD PRIOR TO PROCEEDING WITH DEMOLITION OPERATIONS.
D. CONTRACTOR SHALL PROTECT EXISTING UTILITIES FROM DAMAGE. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
E. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UTILITY LINES PRIOR TO CONSTRUCTION AND TRENCHING.
F. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE NO DAMAGE OCCURS TO EXISTING STRUCTURES, TREES, AND PAVEMENT TO REMAIN AND ITEMS TO BE SALVAGED. ANY DAMAGE TO ITEMS TO REMAIN OR TO BE SALVAGED RESULTING FROM CONSTRUCTION OPERATIONS SHALL BE REPAIRED AND/OR REPLACED AT NO ADDITIONAL COST TO THE OWNER. SEE TREE PROTECTION NOTES.
G. ALL AREAS ADJACENT TO THE SITE SHALL BE MAINTAINED IN A CLEAN CONDITION, MUD AND DUST FREE AT ALL TIMES.
H. PRIOR TO DEMOLITION OPERATIONS, THE CONTRACTOR SHALL DOCUMENT ALL EXISTING CONDITIONS DIRECTLY ADJACENT TO THE PROJECT AREA AND THE CONDITION OF ANY EXISTING ITEMS TO REMAIN WITHIN THE PROJECT AREA. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO THE OWNER BEFORE PROCEEDING WITH ANY WORK.

HATCH AND SYMBOL LEGEND

(crosshatch)	AREAS OF RECENT CONSTRUCTION – SEE IRRIGATION DEMOLITION KEYED NOTE 1.
– – –	EXISTING IRRIGATION MAINLINE TO BE ABANDONED IN PLACE – SEE IRRIGATION DEMOLITION GENERAL NOTE A.
———	EXISTING IRRIGATION MAINLINE TO REMAIN – SEE IRRIGATION DEMOLITION KEYED NOTES 7 AND 8.
(symbol)	EXISTING FLOWER WATER STATION TO BE REMOVED – SEE IRRIGATION DEMOLITION KEYED NOTES 5 AND 6.

IRRIGATION SYSTEM DEMOLITION NARRATIVE

THE EXISTING IRRIGATION SYSTEM DOWNSTREAM OF THE EXISTING WELL AND PUMP WILL BE REPLACED IN ITS ENTIRETY INCLUDING, BUT NOT LIMITED TO MAINLINE, REMOTE CONTROL VALVES, LATERAL LINES, AND HEADS. ALL EXISTING IRRIGATION SYSTEM COMPONENTS WILL BE ABANDONED IN PLACE OR REMOVED AS INDICATED ON THE DEMOLITION PLAN.

THE EXISTING IRRIGATION SYSTEM DEMOLITION SHALL BE PHASED IN SUCH A MANNER AS TO:

- MINIMIZE DISRUPTION TO CEMETERY OPERATIONS, INCLUDING BURIALS, COMMITTAL SERVICES, VISITATION AND GROUNDS MAINTENANCE.
- DEMO AND CONSTRUCT BEGINNING AT THE POINT OF CONNECTION FIRST, MOVING SEQUENTIALLY DOWNSTREAM TO MINIMIZE CONTAMINATING NEWLY INSTALLED EQUIPMENT WITH DEBRIS.
- SEQUENCE DEMOLITION AND CONSTRUCTION ACTIVITIES CONCURRENTLY TO AVOID EXCESSIVE SYSTEM DOWN TIME.
- MINIMIZE TEMPORARY IRRIGATION AND HAND–WATERING DURING DEMOLITION AND CONSTRUCTION.
- MINIMIZE DISTURBANCE WITHIN DRIP LINES OF TREES.
- THOROUGH REMOVAL OF ALL AT GRADE/BELOW GRADE/ABOVE GRADE EQUIPMENT AS DESCRIBED IN NOTES.

SEE SHEETS D–101 THROUGH D–106 FOR DETAILED DEMOLITION WORK SHOWN AT A LARGER SCALE. (REFERENCE MATCHLINES THIS SHEET).

TREE PROTECTION NOTES

1. CONTRACTOR SHALL ESTABLISH A ROOT PROTECTION ZONE AROUND EACH EXISTING TREE TO REMAIN. THE ROOT PROTECTION ZONE SHALL BE AN AREA DEFINED BY A RADIUS EXTENDING OUTWARD FROM THE TRUNK OF THE TREE A DISTANCE OF ONE LINEAR FEET FOR EACH INCH DIAMETER OF THE TREE. THE TREE DIAMETER SHALL BE MEASURED AT BREAST HEIGHT (4.5' ABOVE FINISH GRADE). EXAMPLE: A 10 INCH DIAMETER TREE WILL HAVE A 10 FOOT RADIUS ROOT PROTECTION ZONE.
2. CONTRACTOR SHALL INSTALL FENCING AT THE PERIMETER OF ROOT PROTECTION ZONES. NO WORK SHALL BEGIN WHERE TREE PROTECTION FENCING HAS NOT BEEN COMPLETED AND APPROVED. TREE PROTECTION FENCING SHALL BE INSTALLED, MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING CONSTRUCTION. THE FENCING SHALL BE A MINIMUM OF 4' HEIGHT.
3. CONTRACTOR SHALL NOT STORE OR DRIVE EQUIPMENT, VEHICLES OR MATERIALS WITHIN THE ROOT PROTECTION ZONE.
4. CONTRACTOR SHALL PROTECT EXISTING ROOTS FROM DAMAGE WHEN WORKING WITHIN THE ROOT PROTECTION ZONE. THE CONTRACTOR SHALL LIMIT DEMOLITION OR OTHER CONSTRUCTION ACTIVITIES WITHIN THE ROOT PROTECTION ZONE TO THE MINIMUM DISTURBANCE REQUIRED TO COMPLETE CONSTRUCTION.
5. CONTRACTOR SHALL NOT ALLOW CONCRETE TRUCKS TO CLEAN CHUTES OR DUMP EXCESS CONCRETE OR ANY OTHER CEMENTITIOUS PRODUCTS IN ANY PORTION OF THE SITE. CONTRACTOR SHALL CLEAN THE WASTE OF OTHER CEMENTITIOUS MATERIALS FROM THE SURFACE AND THEY SHALL NOT BE TURNED UNDER DURING FINAL GRADING.
6. CONTRACTOR SHALL NOT TRENCH WITHIN THE DRIPLINE OF EXISTING TREES. AT LOCATIONS WHERE IS IT NECESSARY TO INSTALL LINES OR WIRE WITHIN THE DRIPLINE OF EXISTING TREES, THE UTILITY SHALL BE INSTALLED BY BORING UNDER TREE ROOTS.

BID DOCUMENTS

Revisions: Date:

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STATE OF NEW MEXICO BRIAN J. VERARDO NO. 309 REGISTERED LANDSCAPE ARCHITECT 5/18/2020

National Cemetery Administration Design and Construction Service

VA U.S. Department of Veterans Affairs

Drawing Title: OVERALL IRRIGATION DEMOLITION PLAN	Phase: BID DOCUMENTS	Project Title: BILOXI NATIONAL CEMETERY VOLUME I IRRIGATION REPLACEMENT	Project Number: 832CM3032
			Building Number: N/A
Approved: Project Director Steve Davis Department of Veterans Affairs, NCA Phone: 202.632.4833 Email: steve.davis@va.gov		Location: BILOXI, MS	Drawing Number: D-001
		Issue Date: 05/19/2020 · Checked: BJV · Drawn: BJV/JKS	Sheet 11 of 30

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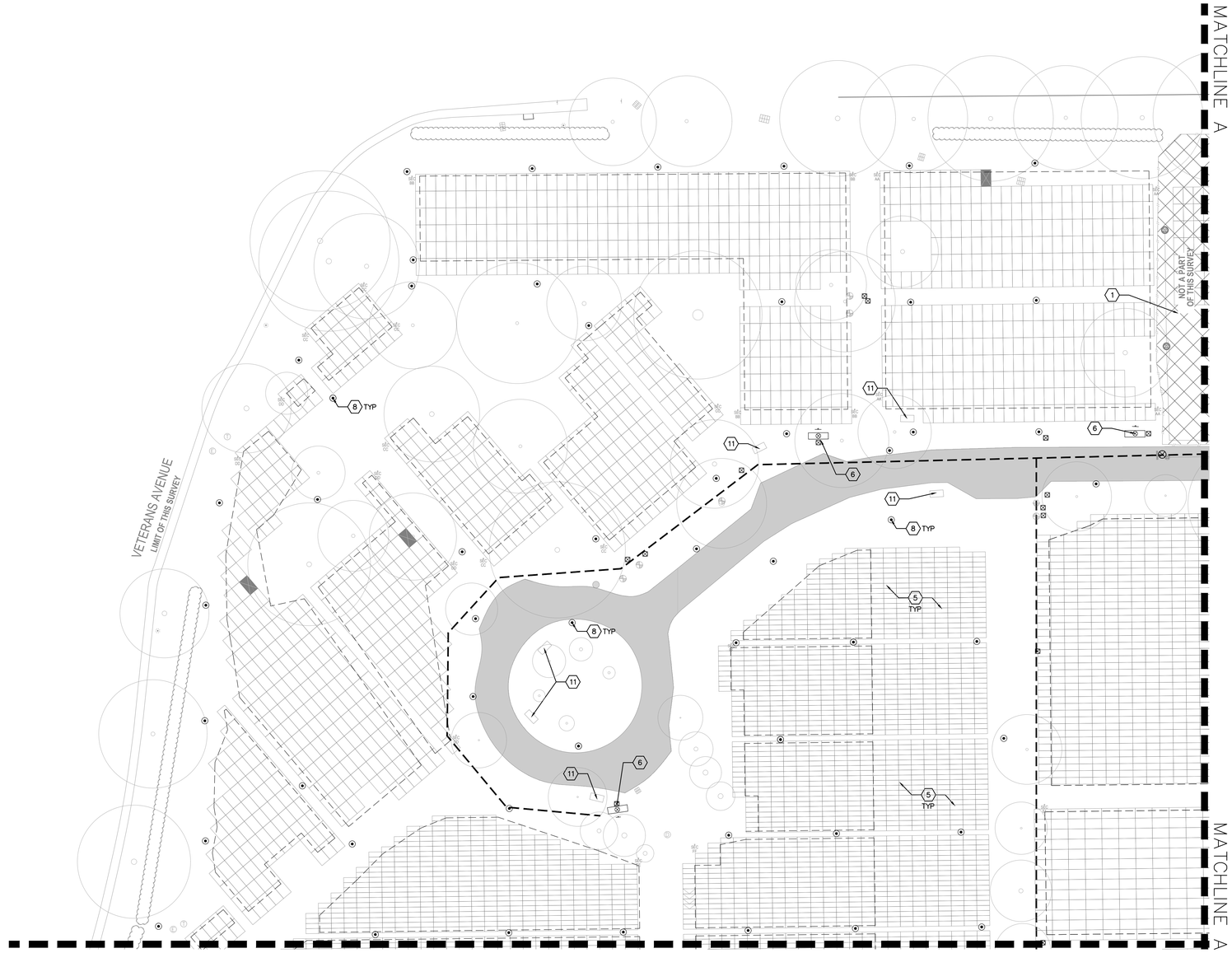

E1 IRRIGATION DEMOLITION PLAN
SCALE: 1"=30'-0"

IRRIGATION DEMOLITION GENERAL NOTES

A. ALL EXISTING SUB-SURFACE IRRIGATION MAINLINE AND LATERAL PIPING WITHIN CEMETERY SHALL BE ABANDONED IN PLACE, UNLESS REMOVAL IS NECESSARY TO INSTALL MAINLINE OR LATERAL PIPING FOR THE NEW SYSTEM.
B. ANY AND ALL EXISTING AT GRADE LEVEL, ABOVE GRADE LEVEL AND BELOW GRADE LEVEL IRRIGATION EQUIPMENT (RISERS, FITTINGS, SPRINKLERS, VALVE BOXES, ETC.) SHALL BE REMOVED, UNLESS INDICATED OTHERWISE. CONTRACTOR SHALL SALVAGE AND RETURN TO THE GOVERNMENT ALL SPRINKLER HEADS AND RISERS/SWING JOINTS.
C. EXISTING IRRIGATION EQUIPMENT SHOWN WITHIN PROJECT AREA IS BASED ON BEST AS-BUILT INFORMATION AVAILABLE. CONTRACTOR SHALL VERIFY ACCURACY IN FIELD PRIOR TO PROCEEDING WITH DEMOLITION OPERATIONS.
D. CONTRACTOR SHALL PROTECT EXISTING UTILITIES FROM DAMAGE. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
E. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UTILITY LINES PRIOR TO CONSTRUCTION AND TRENCHING.
F. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE NO DAMAGE OCCURS TO EXISTING STRUCTURES, TREES, AND PAVEMENT TO REMAIN AND ITEMS TO BE SALVAGED. ANY DAMAGE TO ITEMS TO REMAIN OR TO BE SALVAGED RESULTING FROM CONSTRUCTION OPERATIONS SHALL BE REPAIRED AND/OR REPLACED AT NO ADDITIONAL COST TO THE OWNER. SEE TREE PROTECTION NOTES.
G. ALL AREAS ADJACENT TO THE SITE SHALL BE MAINTAINED IN A CLEAN CONDITION, MUD AND DUST FREE AT ALL TIMES.
H. PRIOR TO DEMOLITION OPERATIONS, THE CONTRACTOR SHALL DOCUMENT ALL EXISTING CONDITIONS DIRECTLY ADJACENT TO THE PROJECT AREA AND THE CONDITION OF ANY EXISTING ITEMS TO REMAIN WITHIN THE PROJECT AREA. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO THE OWNER BEFORE PROCEEDING WITH ANY WORK.

HATCH AND SYMBOL LEGEND

- AREAS OF RECENT CONSTRUCTION – SEE IRRIGATION DEMOLITION KEYED NOTE 1.
- EXISTING IRRIGATION MAINLINE TO BE ABANDONED IN PLACE – SEE IRRIGATION DEMOLITION GENERAL NOTE A.
- EXISTING IRRIGATION MAINLINE TO REMAIN – SEE IRRIGATION DEMOLITION KEYED NOTES 9 AND 10.
- EXTENTS OF SURVEYED HEADSTONES.
- EXISTING REMOTE CONTROL VALVE TO BE REMOVED – SEE IRRIGATION DEMOLITION GENERAL NOTE B.
- EXISTING IRRIGATION HEAD TO BE REMOVED – SEE IRRIGATION DEMOLITION GENERAL NOTE B.
- EXISTING TREE TO REMAIN – SEE TREE PROTECTION NOTES.
- EXISTING HEDGE TO REMAIN.
- EXISTING FLOWER WATER STATION TO BE REMOVED – SEE IRRIGATION DEMOLITION KEYED NOTES 6 AND 7.
- EXISTING SECTION MARKER TO REMAIN, TYP.
- EXISTING CONCRETE BENCH PAD/TRASH RECEPTACLE PAD TO REMAIN, TYP.
- C1 C2 EXISTING CONTROLLER TO BE REMOVED.
- EXISTING FIRE HYDRANT TO REMAIN.
- EXISTING IRRIGATION ISOLATION VALVE TO BE REMOVED – SEE IRRIGATION DEMOLITION GENERAL NOTE B.
- EXISTING IRRIGATION ISOLATION VALVE WITHIN AREA OF RECENT CONSTRUCTION TO REMAIN – SEE IRRIGATION DEMOLITION KEYED NOTE 1.
- EXISTING IRRIGATION REMOTE CONTROL VALVE WITHIN AREA OF RECENT CONSTRUCTION TO REMAIN – SEE IRRIGATION DEMOLITION KEYED NOTE 1.
- EXISTING IRRIGATION QUICK COUPLER VALVE WITHIN AREA OF RECENT CONSTRUCTION TO REMAIN – SEE IRRIGATION DEMOLITION KEYED NOTE 1.
- EXISTING IRRIGATION HEAD AND LATERAL LINE WITHIN AREA OF RECENT CONSTRUCTION TO REMAIN – SEE IRRIGATION DEMOLITION KEYED NOTE 1.

IRRIGATION DEMOLITION KEYED NOTES

1. AREAS OF RECENT CONSTRUCTION. REMOVE EXISTING MAINLINE WITHIN NEW CONSTRUCTION AREAS UNLESS OTHERWISE NOTED. PROTECT EXISTING VALVES, LATERALS, AND HEADS UNLESS OTHERWISE NOTED. VALVES TO REMAIN SHALL BE CONNECTED TO NEW MAINLINE – REFERENCE IRRIGATION PLAN SHEETS LI101, LI102, LI105 AND LI106. EXISTING LINE ROUTING AND VALVE LOCATIONS ARE BASED ON DESIGN DRAWINGS AND WILL NEED TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
2. PUMP HOUSE AND POINT OF CONNECTION FOR WELL SUPPLY TO IRRIGATION SYSTEM.
3. EXISTING CONTROLLER #1 LOCATED AT PUMP HOUSE TO BE REMOVED.
4. EXISTING CONTROLLER #2 LOCATED AT ADMINISTRATION BUILDING TO BE REMOVED.
5. FUTURE GRAVESITES.
6. EXISTING FLOWER WATER STATION WITH RECEPTACLES SUITABLE FOR REUSE. REMOVE AND DISPOSE OF CONCRETE SLAB, VALVE BOX ASSEMBLY, HYDRANT, AND FLORAL REGULATIONS SIGN. SALVAGE EXISTING TRASH RECEPTACLE, AND FLOWER VASE RECEPTACLE FOR REINSTALLATION IN NEW LOCATIONS (REFERENCE IRRIGATION PLANS).
7. EXISTING FLOWER WATER STATION WITH RECEPTACLES NOT SUITABLE FOR REUSE. REMOVE AND DISPOSE OF CONCRETE SLAB, TRASH RECEPTACLE, AND FLOWER VASE RECEPTACLE.
8. REMOVE EXISTING HEAD AND ANY ASSOCIATED LATERAL PIPING, SEE ALSO IRRIGATION DEMOLITION GENERAL NOTE B.
9. CUT EXISTING MAINLINE THIS LOCATION – PROTECT FROM DAMAGE UNTIL NEW MAINLINE CAN BE INSTALLED AND CONNECTED – REFERENCE SHEET LI105.
10. CUT AND CAP EXISTING MAINLINE AT THIS LOCATION.
11. CONCRETE BENCH PAD/TRASH RECEPTACLE PAD TO REMAIN.
12. EXISTING FLOWER WATER STATION AT COLUMBARIUM. REMOVE AND DISPOSE OF CONCRETE SLAB, VALVE BOX ASSEMBLY, AND HYDRANT. SALVAGE EXISTING TRASH RECEPTACLE AND FLOWER VASE RECEPTACLE FOR REINSTALLATION (REFERENCE IRRIGATION PLANS).
13. REMOVE AND DISPOSE OF EXISTING FLORAL REGULATIONS SIGN AT COLUMBARIUM.
14. EXISTING TREE TO BE REMOVED AND DISPOSED OF. GRIND STUMP TO 18" BELOW FINISHED GRADE. FILL VOID WITH CLEAN FILL AND COMPACT TO 80% COMPACTION.

TREE PROTECTION NOTES

1. CONTRACTOR SHALL ESTABLISH A ROOT PROTECTION ZONE AROUND EACH EXISTING TREE TO REMAIN. THE ROOT PROTECTION ZONE SHALL BE AN AREA DEFINED BY A RADIUS EXTENDING OUTWARD FROM THE TRUNK OF THE TREE A DISTANCE OF ONE LINEAR FEET FOR EACH INCH DIAMETER OF THE TREE. THE TREE DIAMETER SHALL BE MEASURED AT BREAST HEIGHT (4.5' ABOVE FINISH GRADE). EXAMPLE: A 10 INCH DIAMETER TREE WILL HAVE A 10 FOOT RADIUS ROOT PROTECTION ZONE.
2. CONTRACTOR SHALL INSTALL FENCING AT THE PERIMETER OF ROOT PROTECTION ZONES. NO WORK SHALL BEGIN WHERE TREE PROTECTION FENCING HAS NOT BEEN COMPLETED AND APPROVED. TREE PROTECTION FENCING SHALL BE INSTALLED, MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING CONSTRUCTION. THE FENCING SHALL BE A MINIMUM OF 4' HEIGHT.
3. CONTRACTOR SHALL NOT STORE OR DRIVE EQUIPMENT, VEHICLES OR MATERIALS WITHIN THE ROOT PROTECTION ZONE.
4. CONTRACTOR SHALL PROTECT EXISTING ROOTS FROM DAMAGE WHEN WORKING WITHIN THE ROOT PROTECTION ZONE. THE CONTRACTOR SHALL LIMIT DEMOLITION OR OTHER CONSTRUCTION ACTIVITIES WITHIN THE ROOT PROTECTION ZONE TO THE MINIMUM DISTURBANCE REQUIRED TO COMPLETE CONSTRUCTION.
5. CONTRACTOR SHALL NOT ALLOW CONCRETE TRUCKS TO CLEAN CHUTES OR DUMP EXCESS CONCRETE OR ANY OTHER CEMENTITIOUS PRODUCTS IN ANY PORTION OF THE SITE. CONTRACTOR SHALL CLEAN THE WASTE OF OTHER CEMENTITIOUS MATERIALS FROM THE SURFACE AND THEY SHALL NOT BE TURNED UNDER DURING FINAL GRADING.
6. CONTRACTOR SHALL NOT TRENCH WITHIN THE DRIPLINE OF EXISTING TREES. AT LOCATIONS WHERE IS IT NECESSARY TO INSTALL LINES OR WIRE WITHIN THE DRIPLINE OF EXISTING TREES, THE UTILITY SHALL BE INSTALLED BY BORING UNDER TREE ROOTS.

BID DOCUMENTS

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BRIAN J. VERARDO
NO. 309
REGISTERED LANDSCAPE ARCHITECT
5/19/2020

National Cemetery Administration Design and Construction Service
VA U.S. Department of Veterans Affairs

Drawing Title: IRRIGATION DEMOLITION PLAN
Phase: BID DOCUMENTS
Approved: Project Director
Steve Davis
Department of Veterans Affairs, NCA
Phone: 202.632.4833
Email: steve.davis@va.gov

Project Title: BILOXI NATIONAL CEMETERY VOLUME I IRRIGATION REPLACEMENT
Project Number: 832CM3032
Building Number: N/A
Location: BILOXI, MS
Drawing Number: D-101
Issue Date: 05/19/2020
Checked: BJV
Drawn: BJV/JKS
Sheet 12 of 30

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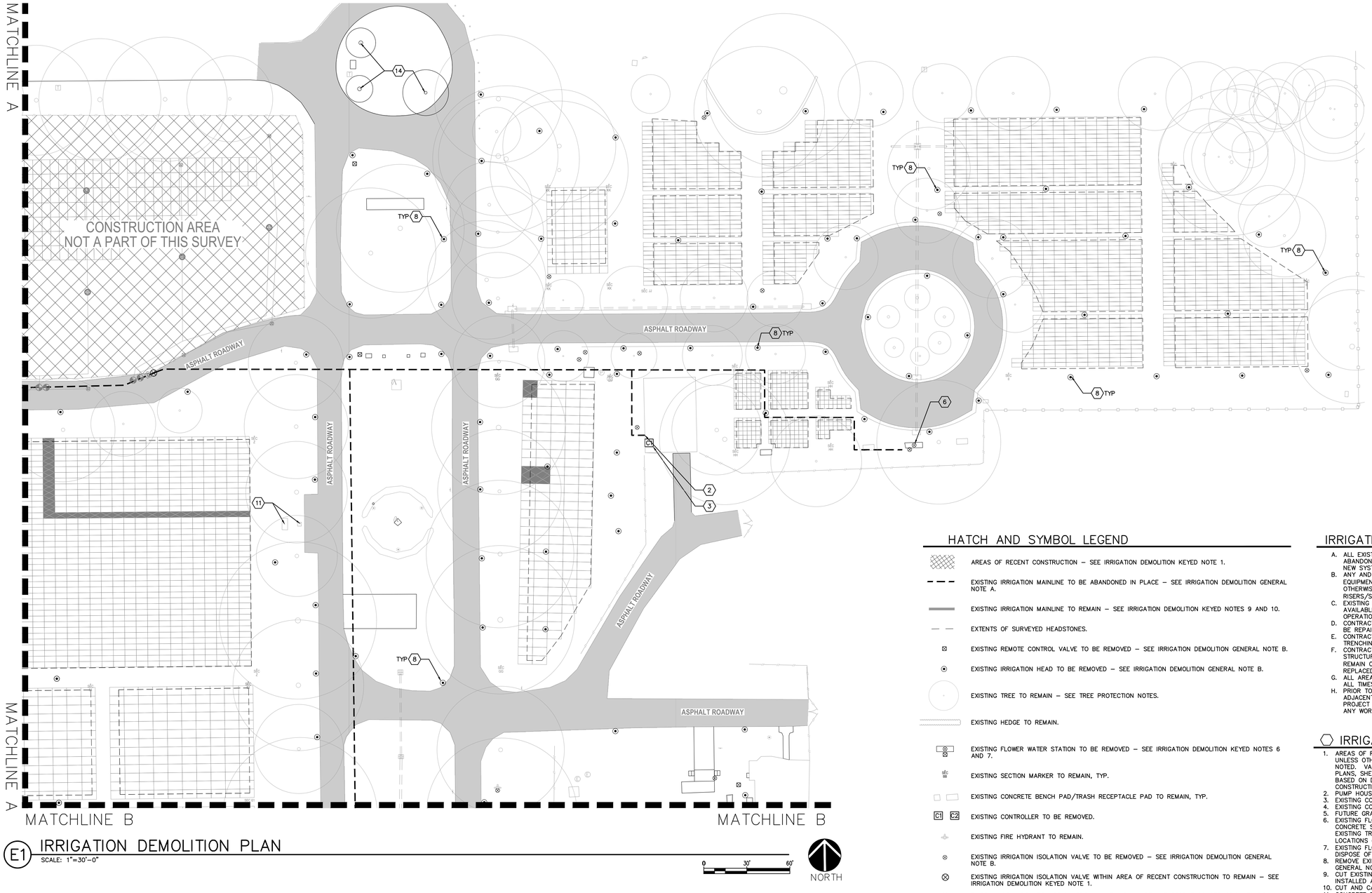

E1 IRRIGATION DEMOLITION PLAN

SCALE: 1"=30'-0"

0 30' 60'

NORTH

HATCH AND SYMBOL LEGEND

- AREAS OF RECENT CONSTRUCTION – SEE IRRIGATION DEMOLITION KEYED NOTE 1.
- EXISTING IRRIGATION MAINLINE TO BE ABANDONED IN PLACE – SEE IRRIGATION DEMOLITION GENERAL NOTE A.
- EXISTING IRRIGATION MAINLINE TO REMAIN – SEE IRRIGATION DEMOLITION KEYED NOTES 9 AND 10.
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- EXISTING REMOTE CONTROL VALVE TO BE REMOVED – SEE IRRIGATION DEMOLITION GENERAL NOTE B.
- EXISTING IRRIGATION HEAD TO BE REMOVED – SEE IRRIGATION DEMOLITION GENERAL NOTE B.
- EXISTING TREE TO REMAIN – SEE TREE PROTECTION NOTES.
- EXISTING HEDGE TO REMAIN.
- EXISTING FLOWER WATER STATION TO BE REMOVED – SEE IRRIGATION DEMOLITION KEYED NOTES 6 AND 7.
- EXISTING SECTION MARKER TO REMAIN, TYP.
- EXISTING CONCRETE BENCH PAD/TRASH RECEPTACLE PAD TO REMAIN, TYP.
- C1 C2 EXISTING CONTROLLER TO BE REMOVED.
- EXISTING FIRE HYDRANT TO REMAIN.
- EXISTING IRRIGATION ISOLATION VALVE TO BE REMOVED – SEE IRRIGATION DEMOLITION GENERAL NOTE B.
- EXISTING IRRIGATION ISOLATION VALVE WITHIN AREA OF RECENT CONSTRUCTION TO REMAIN – SEE IRRIGATION DEMOLITION KEYED NOTE 1.
- EXISTING IRRIGATION REMOTE CONTROL VALVE WITHIN AREA OF RECENT CONSTRUCTION TO REMAIN – SEE IRRIGATION DEMOLITION KEYED NOTE 1.
- EXISTING IRRIGATION QUICK COUPLER VALVE WITHIN AREA OF RECENT CONSTRUCTION TO REMAIN – SEE IRRIGATION DEMOLITION KEYED NOTE 1.
- EXISTING IRRIGATION HEAD AND LATERAL LINE WITHIN AREA OF RECENT CONSTRUCTION TO REMAIN – SEE IRRIGATION DEMOLITION KEYED NOTE 1.

TREE PROTECTION NOTES

1. CONTRACTOR SHALL ESTABLISH A ROOT PROTECTION ZONE AROUND EACH EXISTING TREE TO REMAIN. THE ROOT PROTECTION ZONE SHALL BE AN AREA DEFINED BY A RADIUS EXTENDING OUTWARD FROM THE TRUNK OF THE TREE A DISTANCE OF ONE LINEAR FEET FOR EACH INCH DIAMETER OF THE TREE. THE TREE DIAMETER SHALL BE MEASURED AT BREAST HEIGHT (4.5' ABOVE FINISH GRADE). EXAMPLE: A 10 INCH DIAMETER TREE WILL HAVE A 10 FOOT RADIUS ROOT PROTECTION ZONE.
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4. CONTRACTOR SHALL PROTECT EXISTING ROOTS FROM DAMAGE WHEN WORKING WITHIN THE ROOT PROTECTION ZONE. THE CONTRACTOR SHALL LIMIT DEMOLITION OR OTHER CONSTRUCTION ACTIVITIES WITHIN THE ROOT PROTECTION ZONE TO THE MINIMUM DISTURBANCE REQUIRED TO COMPLETE CONSTRUCTION.
5. CONTRACTOR SHALL NOT ALLOW CONCRETE TRUCKS TO CLEAN CHUTES OR DUMP EXCESS CONCRETE OR ANY OTHER CEMENTITIOUS PRODUCTS IN ANY PORTION OF THE SITE. CONTRACTOR SHALL CLEAN THE WASTE OF OTHER CEMENTITIOUS MATERIALS FROM THE SURFACE AND THEY SHALL NOT BE TURNED UNDER DURING FINAL GRADING.
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C. EXISTING IRRIGATION EQUIPMENT SHOWN WITHIN PROJECT AREA IS BASED ON BEST AS-BUILT INFORMATION AVAILABLE. CONTRACTOR SHALL VERIFY ACCURACY IN FIELD PRIOR TO PROCEEDING WITH DEMOLITION OPERATIONS.
D. CONTRACTOR SHALL PROTECT EXISTING UTILITIES FROM DAMAGE. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
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G. ALL AREAS ADJACENT TO THE SITE SHALL BE MAINTAINED IN A CLEAN CONDITION, MUD AND DUST FREE AT ALL TIMES.
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2. PUMP HOUSE AND POINT OF CONNECTION FOR WELL SUPPLY TO IRRIGATION SYSTEM.
3. EXISTING CONTROLLER #1 LOCATED AT PUMP HOUSE TO BE REMOVED.
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6. EXISTING FLOWER WATER STATION WITH RECEPTACLES SUITABLE FOR REUSE. REMOVE AND DISPOSE OF CONCRETE SLAB, VALVE BOX ASSEMBLY, HYDRANT, AND FLORAL REGULATIONS SIGN. SALVAGE EXISTING TRASH RECEPTACLE, AND FLOWER VASE RECEPTACLE FOR REINSTALLATION IN NEW LOCATIONS (REFERENCE IRRIGATION PLANS).
7. EXISTING FLOWER WATER STATION WITH RECEPTACLES NOT SUITABLE FOR REUSE. REMOVE AND DISPOSE OF CONCRETE SLAB, TRASH RECEPTACLE, AND FLOWER VASE RECEPTACLE.
8. REMOVE EXISTING HEAD AND ANY ASSOCIATED LATERAL PIPING, SEE ALSO IRRIGATION DEMOLITION GENERAL NOTE B.
9. CUT EXISTING MAINLINE THIS LOCATION – PROTECT FROM DAMAGE UNTIL NEW MAINLINE CAN BE INSTALLED AND CONNECTED – REFERENCE SHEET L1105.
10. CUT AND CAP EXISTING MAINLINE AT THIS LOCATION.
11. CONCRETE BENCH PAD/TRASH RECEPTACLE PAD TO REMAIN.
12. EXISTING FLOWER WATER STATION AT COLUMBARIUM. REMOVE AND DISPOSE OF CONCRETE SLAB, VALVE BOX ASSEMBLY, AND HYDRANT. SALVAGE EXISTING TRASH RECEPTACLE AND FLOWER VASE RECEPTACLE FOR REINSTALLATION (REFERENCE IRRIGATION PLANS).
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STAMP
STATE OF NEW MEXICO – BRIAN J. VERARDO NO. 309 – REGISTERED LANDSCAPE ARCHITECT – 5/19/2020

National Cemetery Administration Design and Construction Service
VA U.S. Department of Veterans Affairs

Drawing Title: IRRIGATION DEMOLITION PLAN
Approved: Project Director Steve Davis, Department of Veterans Affairs, NCA
Phone: 202.632.4833
Email: steve.davis@va.gov

Phase: BID DOCUMENTS

Project Title: BILOXI NATIONAL CEMETERY VOLUME I IRRIGATION REPLACEMENT
Location: BILOXI, MS

Project Number: 832CM3032
Building Number: N/A
Drawing Number: D-102

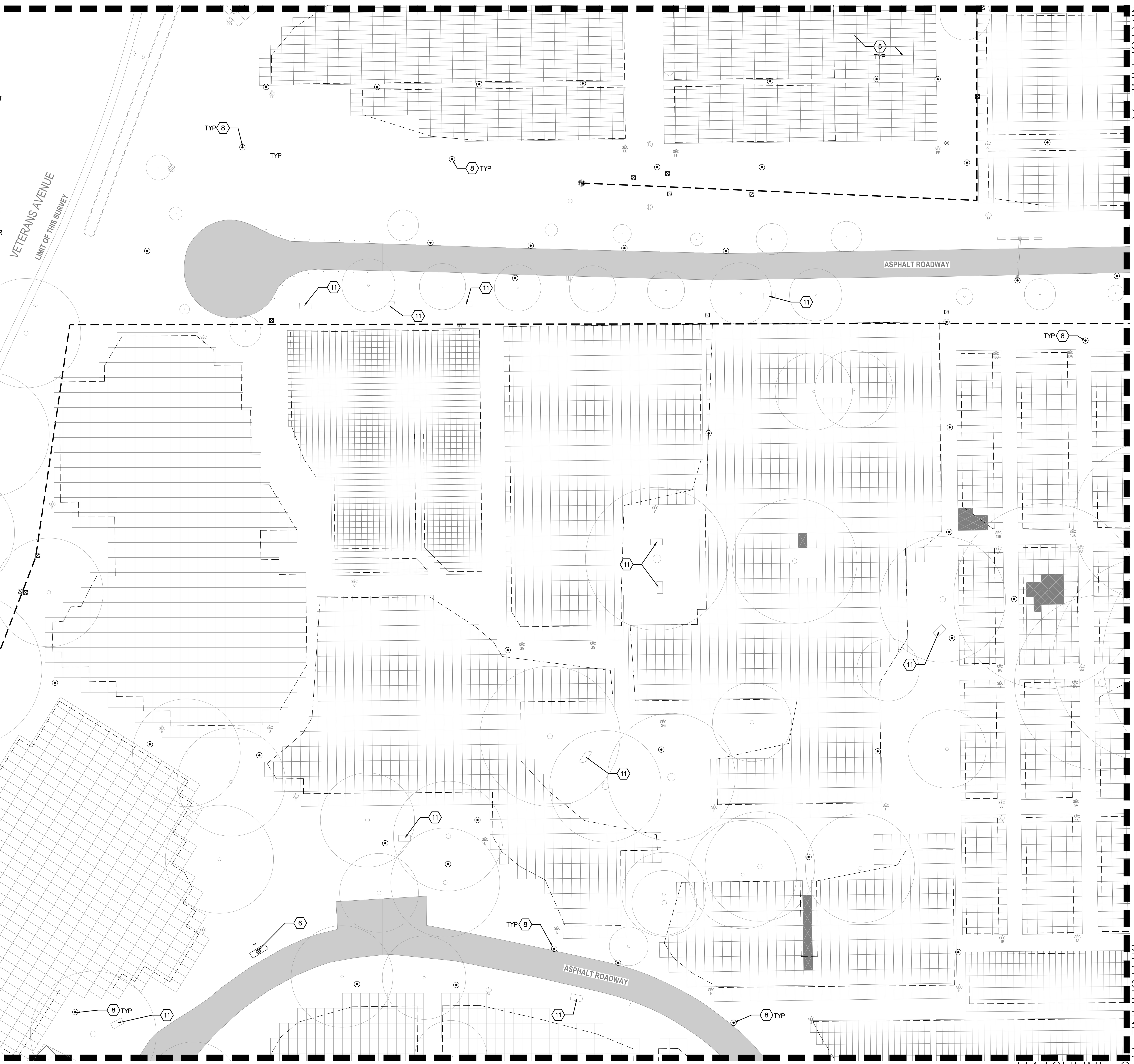
Issue Date	Checked	Drawn
05/19/2020	BJV	BJV/JKS

Sheet 13 of 30

VA FORM 08 - 6231

TREE PROTECTION NOTES

1. CONTRACTOR SHALL ESTABLISH A ROOT PROTECTION ZONE AROUND EACH EXISTING TREE TO REMAIN. THE ROOT PROTECTION ZONE SHALL BE AN AREA DEFINED BY A RADIUS EXTENDING OUTWARD FROM THE TRUNK OF THE TREE A DISTANCE OF ONE LINEAR FEET FOR EACH INCH DIAMETER OF THE TREE. THE TREE DIAMETER SHALL BE MEASURED AT BREAST HEIGHT (4.5' ABOVE FINISH GRADE). EXAMPLE: A 10 INCH DIAMETER TREE WILL HAVE A 10 FOOT RADIUS ROOT PROTECTION ZONE.
2. CONTRACTOR SHALL INSTALL FENCING AT THE PERIMETER OF ROOT PROTECTION ZONES. NO WORK SHALL BEGIN WHERE TREE PROTECTION FENCING HAS NOT BEEN COMPLETED AND APPROVED. TREE PROTECTION FENCING SHALL BE INSTALLED, MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING CONSTRUCTION. THE FENCING SHALL BE A MINIMUM OF 4' HEIGHT.
3. CONTRACTOR SHALL NOT STORE OR DRIVE EQUIPMENT, VEHICLES OR MATERIALS WITHIN THE ROOT PROTECTION ZONE.
4. CONTRACTOR SHALL PROTECT EXISTING ROOTS FROM DAMAGE WHEN WORKING WITHIN THE ROOT PROTECTION ZONE. THE CONTRACTOR SHALL LIMIT DEMOLITION OR OTHER CONSTRUCTION ACTIVITIES WITHIN THE ROOT PROTECTION ZONE TO THE MINIMUM DISTURBANCE REQUIRED TO COMPLETE CONSTRUCTION.
5. CONTRACTOR SHALL NOT ALLOW CONCRETE TRUCKS TO CLEAN CHUTES OR DUMP EXCESS CONCRETE OR ANY OTHER CEMENTITIOUS PRODUCTS IN ANY PORTION OF THE SITE. CONTRACTOR SHALL CLEAN THE WASTE OF OTHER CEMENTITIOUS MATERIALS FROM THE SURFACE AND THEY SHALL NOT BE TURNED UNDER DURING FINAL GRADING.
6. CONTRACTOR SHALL NOT TRENCH WITHIN THE DRIPLINE OF EXISTING TREES. AT LOCATIONS WHERE IS IT NECESSARY TO INSTALL LINES OR WIRE WITHIN THE DRIPLINE OF EXISTING TREES, THE UTILITY SHALL BE INSTALLED BY BORING UNDER TREE ROOTS.



F1 IRRIGATION DEMOLITION PLAN

SCALE: 1"=30'-0"

0 30' 60'

NORTH

IRRIGATION DEMOLITION GENERAL NOTES

A. ALL EXISTING SUB-SURFACE IRRIGATION MAINLINE AND LATERAL PIPING WITHIN CEMETERY SHALL BE ABANDONED IN PLACE, UNLESS REMOVAL IS NECESSARY TO INSTALL MAINLINE OR LATERAL PIPING FOR THE NEW SYSTEM.
B. ANY AND ALL EXISTING AT GRADE LEVEL, ABOVE GRADE LEVEL AND BELOW GRADE LEVEL IRRIGATION EQUIPMENT (RISERS, FITTINGS, SPRINKLERS, VALVE BOXES, ETC.) SHALL BE REMOVED, UNLESS INDICATED OTHERWISE. CONTRACTOR SHALL SALVAGE AND RETURN TO THE GOVERNMENT ALL SPRINKLER HEADS AND RISERS/SWING JOINTS.
C. EXISTING IRRIGATION EQUIPMENT SHOWN WITHIN PROJECT AREA IS BASED ON BEST AS-BUILT INFORMATION AVAILABLE. CONTRACTOR SHALL VERIFY ACCURACY IN FIELD PRIOR TO PROCEEDING WITH DEMOLITION OPERATIONS.
D. CONTRACTOR SHALL PROTECT EXISTING UTILITIES FROM DAMAGE. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
E. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UTILITY LINES PRIOR TO CONSTRUCTION AND TRENCHING.
F. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE NO DAMAGE OCCURS TO EXISTING STRUCTURES, TREES, AND PAVEMENT TO REMAIN AND ITEMS TO BE SALVAGED. ANY DAMAGE TO ITEMS TO REMAIN OR TO BE SALVAGED RESULTING FROM CONSTRUCTION OPERATIONS SHALL BE REPAIRED AND/OR REPLACED AT NO ADDITIONAL COST TO THE OWNER. SEE TREE PROTECTION NOTES.
G. ALL AREAS ADJACENT TO THE SITE SHALL BE MAINTAINED IN A CLEAN CONDITION, MUD AND DUST FREE AT ALL TIMES.
H. PRIOR TO DEMOLITION OPERATIONS, THE CONTRACTOR SHALL DOCUMENT ALL EXISTING CONDITIONS DIRECTLY ADJACENT TO THE PROJECT AREA AND THE CONDITION OF ANY EXISTING ITEMS TO REMAIN WITHIN THE PROJECT AREA. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO THE OWNER BEFORE PROCEEDING WITH ANY WORK.

HATCH AND SYMBOL LEGEND

- AREAS OF RECENT CONSTRUCTION - SEE IRRIGATION DEMOLITION KEYED NOTE 1.
- EXISTING IRRIGATION MAINLINE TO BE ABANDONED IN PLACE - SEE IRRIGATION DEMOLITION GENERAL NOTE A.
- EXISTING IRRIGATION MAINLINE TO REMAIN - SEE IRRIGATION DEMOLITION KEYED NOTES 9 AND 10.
- EXTENTS OF SURVEYED HEADSTONES.
- EXISTING REMOTE CONTROL VALVE TO BE REMOVED - SEE IRRIGATION DEMOLITION GENERAL NOTE B.
- EXISTING IRRIGATION HEAD TO BE REMOVED - SEE IRRIGATION DEMOLITION GENERAL NOTE B.
- EXISTING TREE TO REMAIN - SEE TREE PROTECTION NOTES.
- EXISTING HEDGE TO REMAIN.
- EXISTING FLOWER WATER STATION TO BE REMOVED - SEE IRRIGATION DEMOLITION KEYED NOTES 6 AND 7.
- SEC BB — EXISTING SECTION MARKER TO REMAIN, TYP.
- EXISTING CONCRETE BENCH PAD/TRASH RECEPTACLE PAD TO REMAIN, TYP.
- C1 C2 — EXISTING CONTROLLER TO BE REMOVED.
- EXISTING FIRE HYDRANT TO REMAIN.
- EXISTING IRRIGATION ISOLATION VALVE TO BE REMOVED - SEE IRRIGATION DEMOLITION GENERAL NOTE B.
- EXISTING IRRIGATION ISOLATION VALVE WITHIN AREA OF RECENT CONSTRUCTION TO REMAIN - SEE IRRIGATION DEMOLITION KEYED NOTE 1.
- EXISTING IRRIGATION REMOTE CONTROL VALVE WITHIN AREA OF RECENT CONSTRUCTION TO REMAIN - SEE IRRIGATION DEMOLITION KEYED NOTE 1.
- Q — EXISTING IRRIGATION QUICK COUPLER VALVE WITHIN AREA OF RECENT CONSTRUCTION TO REMAIN - SEE IRRIGATION DEMOLITION KEYED NOTE 1.
- EXISTING IRRIGATION HEAD AND LATERAL LINE WITHIN AREA OF RECENT CONSTRUCTION TO REMAIN - SEE IRRIGATION DEMOLITION KEYED NOTE 1.

IRRIGATION DEMOLITION KEYED NOTES

1. AREAS OF RECENT CONSTRUCTION. REMOVE EXISTING MAINLINE WITHIN NEW CONSTRUCTION AREAS UNLESS OTHERWISE NOTED. PROTECT EXISTING VALVES, LATERALS, AND HEADS UNLESS OTHERWISE NOTED. VALVES TO REMAIN SHALL BE CONNECTED TO NEW MAINLINE - REFERENCE IRRIGATION PLANS, SHEETS LI101, LI102, LI105 AND LI106. EXISTING LINE ROUTING AND VALVE LOCATIONS ARE BASED ON DESIGN DRAWINGS AND WILL NEED TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
2. PUMP HOUSE AND POINT OF CONNECTION FOR WELL SUPPLY TO IRRIGATION SYSTEM.
3. EXISTING CONTROLLER #1 LOCATED AT PUMP HOUSE TO BE REMOVED.
4. EXISTING CONTROLLER #2 LOCATED AT ADMINISTRATION BUILDING TO BE REMOVED.
5. FUTURE GRAVESITES.
6. EXISTING FLOWER WATER STATION WITH RECEPTACLES SUITABLE FOR REUSE. REMOVE AND DISPOSE OF CONCRETE SLAB, VALVE BOX ASSEMBLY, HYDRANT, AND FLORAL REGULATIONS SIGN. SALVAGE EXISTING TRASH RECEPTACLE, AND FLOWER VASE RECEPTACLE FOR REINSTALLATION IN NEW LOCATIONS (REFERENCE IRRIGATION PLANS).
7. EXISTING FLOWER WATER STATION WITH RECEPTACLES NOT SUITABLE FOR REUSE. REMOVE AND DISPOSE OF CONCRETE SLAB, TRASH RECEPTACLE, AND FLOWER VASE RECEPTACLE.
8. REMOVE EXISTING HEAD AND ANY ASSOCIATED LATERAL PIPING, SEE ALSO IRRIGATION DEMOLITION GENERAL NOTE B.
9. CUT EXISTING MAINLINE THIS LOCATION - PROTECT FROM DAMAGE UNTIL NEW MAINLINE CAN BE INSTALLED AND CONNECTED - REFERENCE SHEET LI105.
10. CUT AND CAP EXISTING MAINLINE AT THIS LOCATION.
11. CONCRETE BENCH PAD/TRASH RECEPTACLE PAD TO REMAIN.
12. EXISTING FLOWER WATER STATION AT COLUMBARIUM. REMOVE AND DISPOSE OF CONCRETE SLAB, VALVE BOX ASSEMBLY, AND HYDRANT. SALVAGE EXISTING TRASH RECEPTACLE AND FLOWER VASE RECEPTACLE FOR REINSTALLATION (REFERENCE IRRIGATION PLANS).
13. REMOVE AND DISPOSE OF EXISTING FLORAL REGULATIONS SIGN AT COLUMBARIUM.
14. EXISTING TREE TO BE REMOVED AND DISPOSED OF. GRIND STUMP TO 18" BELOW FINISHED GRADE. FILL VOID WITH CLEAN FILL AND COMPACT TO 80% COMPACTION.

BID DOCUMENTS

Revisions: | Date:

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5/18/2020

National Cemetery Administration Design and Construction Service

VA U.S. Department of Veterans Affairs

Drawing Title: IRRIGATION DEMOLITION PLAN

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Phase: BID DOCUMENTS

Project Title: BILOXI NATIONAL CEMETERY VOLUME I IRRIGATION REPLACEMENT

Location: BILOXI, MS

Issue Date	Checked	Drawn
05/19/2020	BJV	BJV/JKS

Project Number: 832CM3032

Building Number: N/A

Drawing Number: D-103

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