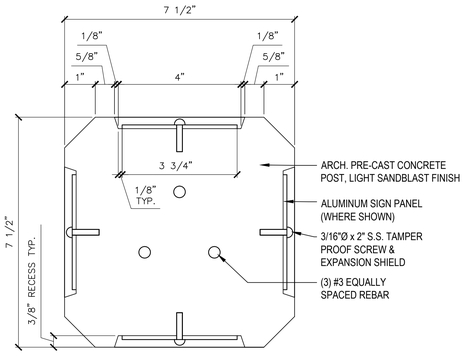
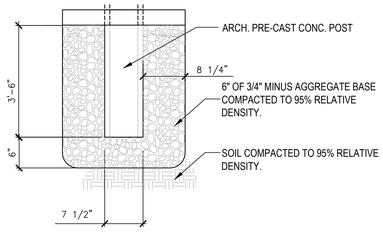


1 L9.02 SECTION OF POST

N.T.S.



2 L9.02 POST SETTING

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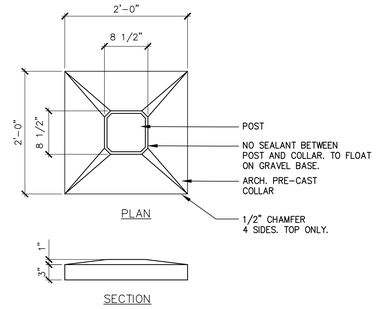

3 L9.02 CONCRETE COLLAR

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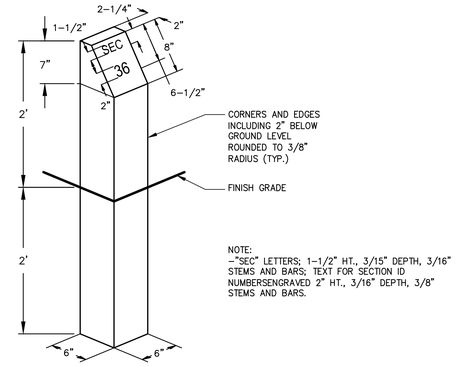
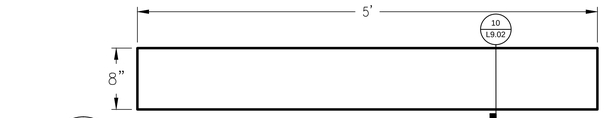


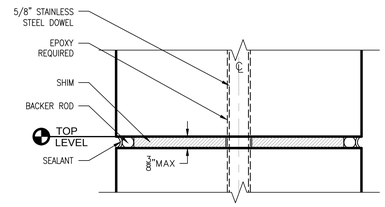
4 L9.02 GRANITE SECTION MARKER - NC-07.03

N.T.S.



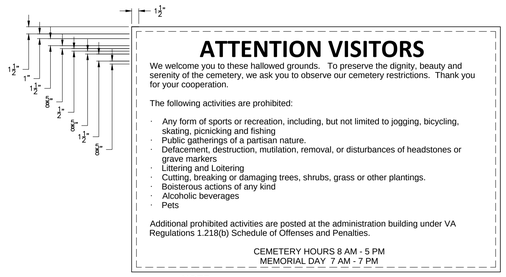
8 L9.02 MONUMENT SIGN AT COURTYARD PLAN VIEW

SCALE: 1/8" = 1'



11 L9.02 MONUMENT SIGN JOINT DETAIL

6" = 1'-0"



ATTENTION VISITORS

We welcome you to these hallowed grounds. To preserve the dignity, beauty and serenity of the cemetery, we ask you to observe our cemetery restrictions. Thank you for your cooperation.

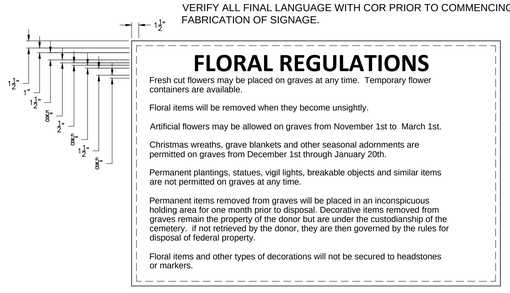
The following activities are prohibited:

- Any form of sports or recreation, including, but not limited to jogging, bicycling, skating, picnicking and fishing
- Public gatherings of a partisan nature.
- Defacement, destruction, mutilation, removal, or disturbances of headstones or grave markers
- Littering and Loitering
- Cutting, breaking or damaging trees, shrubs, grass or other plantings.
- Boisterous actions of any kind
- Alcoholic beverages
- Pets

Additional prohibited activities are posted at the administration building under VA Regulations 1.218(b) Schedule of Offenses and Penalties.

CEMETERY HOURS 8 AM - 5 PM
MEMORIAL DAY 7 AM - 7 PM

NOTE:
VERIFY ALL FINAL LANGUAGE WITH COR PRIOR TO COMMENCING WITH FABRICATION OF SIGNAGE.



FLORAL REGULATIONS

Fresh cut flowers may be placed on graves at any time. Temporary flower containers are available.

Floral items will be removed when they become unsightly.

Artificial flowers may be allowed on graves from November 1st to March 1st.

Christmas wreaths, grave blankets and other seasonal adornments are permitted on graves from December 1st through January 20th.

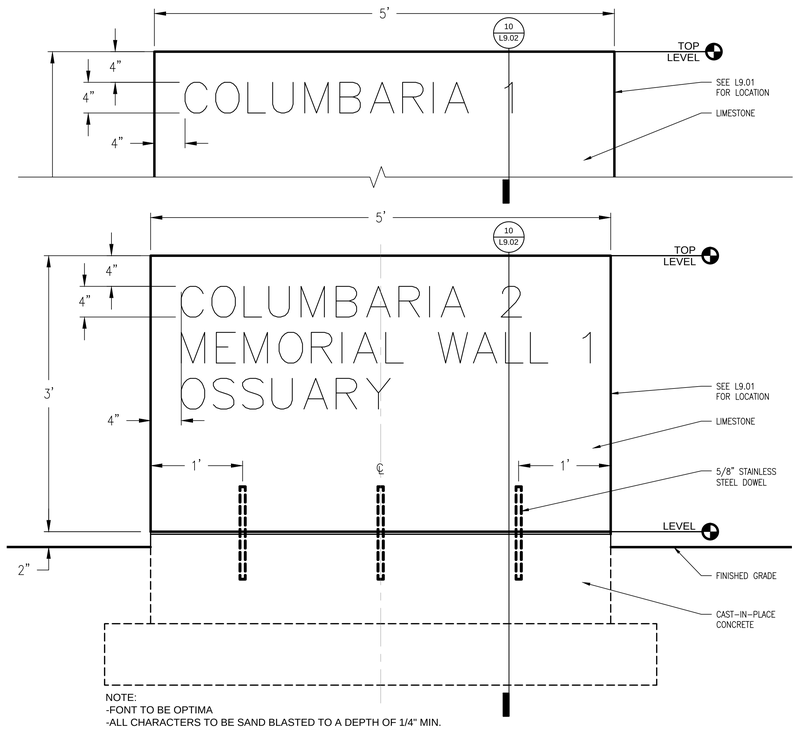
Permanent plantings, statues, vigil lights, breakable objects and similar items are not permitted on graves at any time.

Permanent items removed from graves will be placed in an inconspicuous holding area for one month prior to disposal. Decorative items removed from graves remain the property of the donor but are under the custodianship of the cemetery. If not retrieved by the donor, they are then governed by the rules for disposal of federal property.

Floral items and other types of decorations will not be secured to headstones or markers.

5 L9.02 VISITOR INFORMATION AND FLORAL REGULATIONS

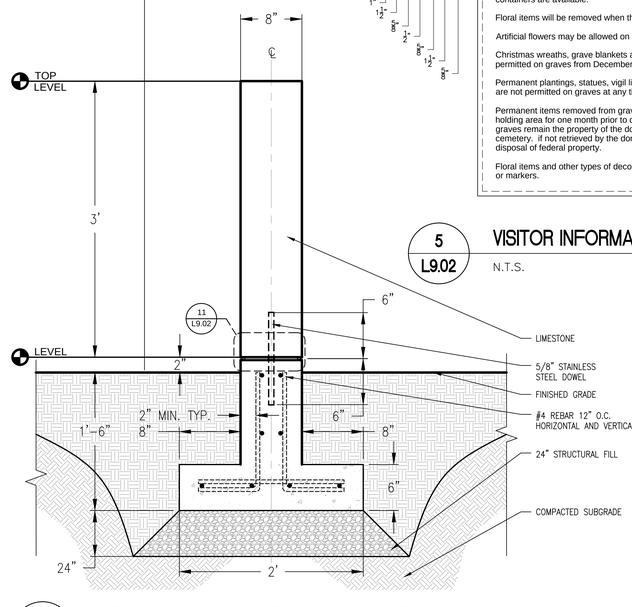
N.T.S.



NOTE:
-FONT TO BE OPTIMA
-ALL CHARACTERS TO BE SAND BLASTED TO A DEPTH OF 1/4" MIN.
-PAINT WITHIN THE INCISED LETTERS WITH LITHICHROME PAINT

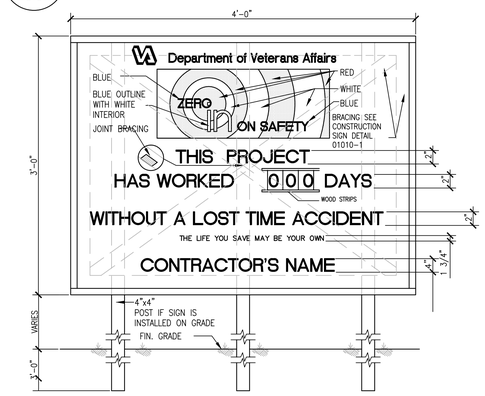
9 L9.02 MONUMENT SIGN AT COURTYARD ELEVATION

SCALE: 1/8" = 1'



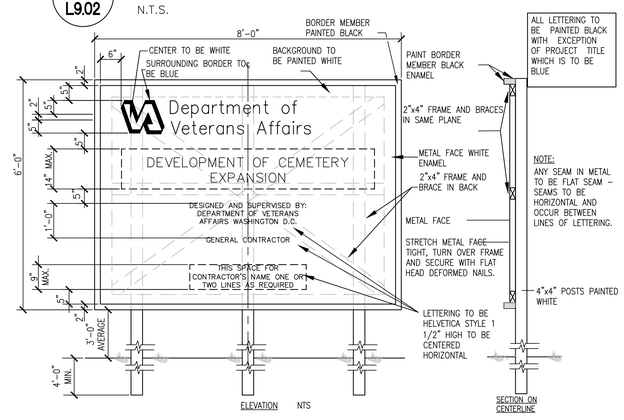
10 L9.02 MONUMENT SIGN AT COURTYARD SECTION

SCALE: 1/8" = 1'



7 L9.02 PROJECT SAFETY SIGN (To be located in the field)

N.T.S.



6 L9.02 PROJECT CONSTRUCTION SIGN (To be located in the field)

N.T.S.

BID DOCUMENTS

No.	Revisions	Date

Advanced Structural Technologies
7212 Metro Boulevard
Edina, MN 55439
(952) 854-9302 tel
(952) 854-9690 fax
www.astmn.com

Water in Motion
Professionals in Outdoor Water Use, Reuse, Consulting & Water Management
175 James Ave N | Minneapolis, MN 55405
p 763-559-3200 | f 763-559-7779
www.watermotion.com

KJWW ENGINEERING CONSULTANTS
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STRUCTURAL MECHANICAL | ELECTRICAL
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ANDERSON ENGINEERING
ENGINEERING • ARCHITECTURE • LAND SURVEYING
ENVIRONMENTAL SERVICES • LANDSCAPE ARCHITECTURE
Anderson Engineering of Minnesota, LLC
13605 1st Avenue North, Suite 100, Plymouth, MN 55441
763-412-4000 (o) 763-412-4090 (f) www.ae-mn.com
AE COMM. #13282

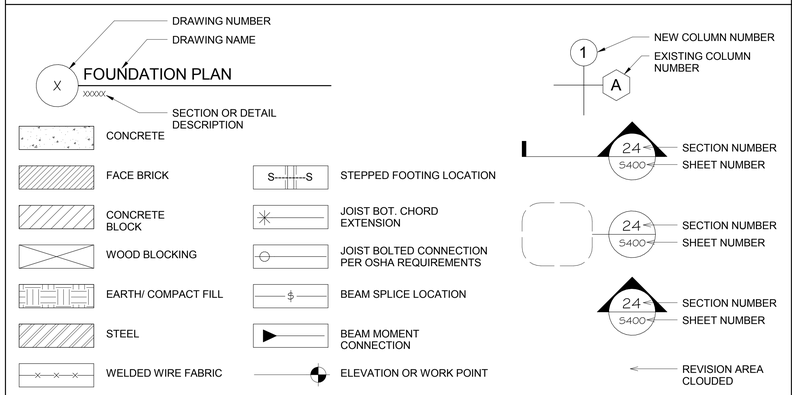
REGISTERED PROFESSIONAL ENGINEER 83268 OREGON JUNE 30, 2017 JAMES R. JOHNSON
EXP. JUNE 30, 2017

NATIONAL CEMETERY ADMINISTRATION

Drawing Title	Project Title			Date
SIGNAGE DETAILS	CEMETERY EXPANSION			10-9-2015
				Project Number 906 CM 3012
Approved: Director, Office of Construction Management	Building Number	Checked	Drawn	Drawing Number
Approved: Director, Project Management Service	Location EAGLE POINT, OREGON			L9.02 Dwg. 68 Of 85

Oct 09, 2015 - 3:53pm jphansen Y:\1320001\3282\a eagle point national cemetery - cemetery expansion master plan\nCDwg-C3d\CIVIL\12282 SIGN.dwg
Xref(s): BORDER, BASE, TITLE; 12282 BASE_CIVIL; PHA; 013282 x1 LEGEND; Underlay: ecw1 (NEBASE_SIGN)

DRAWING SYMBOLS



ABBREVIATIONS

A	
A.B.	ANCHOR BOLT
ADD'L	ADDITIONAL
ALT	ALTERNATE
ARCH.	ARCHITECT(URAL)
B	
BLDG.	BUILDING
BLK.	BLOCK
BLKG.	BLOCKING
BM.	BEAM
BOT.	BOTTOM
BRG.	BEARING
BTWN.	BLOCKING
C	
C.I.P.	CAST IN PLACE
C.J.	CONTROL JOINT
CL.	CENTER LINE
CLR.	CLEAR(ANCE)
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
COMP.	COMPOSITE
CONC.	CONCRETE
CONN.	CONNECTION
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
COORD.	COORDINATE
CTRD.	CENTERED
D	
DBL.	DOUBLE
DIA.	DIAMETER
DIAG.	DIAGONAL
D.L.	DEAD LOAD
DO.	DITTO
DTL.	DETAIL
DWG.	DRAWING
E	
E	EAST
EA.	EACH
ELEV.	ELEVATION
EMBED.	EMBEDMENT
EQ.	EQUAL
EXIST.	EXISTING
EXP.	EXPANSION
EXT.	EXTERIOR
F	
FAB.	FABRICATE(OR)
FD.	FLOOR DRAIN
FNDN.	FOUNDATION
FTG.	FOOTING
G	
GA.	GAGE, GAUGE
GALV.	GALVANIZED
G.C.	GENERAL CONTRAT(OR)
H	
HORIZ.	HORIZONTAL
HK.	HOOK
H.S.	HEADED STUDS
H.S.S.	HOLLOW STRUCT. STEEL
I	
INFO.	INFORMATION
J	
JBE.	JOIST BEARING ELEVATION
JST.	JOIST
JT.	JOINT
K	
K	KIP
K.O.	KNOCK-OUT
K.S.I.	KIPS PER SQ. INCH
L	
L.L.	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
M	
MAS.	MASONRY
MATL.	MATERIAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MEZZ.	MEZZANINE
MFG.	MANUFACTURE(R)
MIN.	MINIMUM
MISC.	MISCELLANEOUS
M.O.	MASONRY OPENING
N	
N	NORTH
N.I.C.	NOT TO CONTRACT
NTS	NOT TO SCALE
O	
o.c.	ON CENTER(S)
O.H.	OVERHEAD
OPNG.	OPENING
OPP.	OPPOSITE
P	
P.C.	PRECAST CONCRETE
PERIM.	PERIMETER
PL.	PLATE
PLF	POUNDS PER LINEAR FOOT
PROJ.	PROJECT
PSF.	POUNDS PER SQ. FOOT
PSI.	POUNDS PER SQ. INCH
Q	
QTY.	QUANTITY
R	
RAD.	RADIUS
R.D.	ROOF DRAIN
REINF.	REINFORCE(D), (ING)
REQ'D.	REQUIRED
REV.	REVISION, REVISE(D)
S	
S	SOUTH
SCHED.	SCHEDULE
SIM.	SIMILAR
SJI	STEEL JOIST INSTITUTE
SPA.	SPACE(S)
SQ.	SQUARE
STD.	STANDARD
STL.	STEEL
STRUCT.	STRUCTURAL
T	
TBE.	TOP OF BEAM ELEVATION
TDE.	TOP OF DECK ELEVATION
TEMP.	TEMPORARY
TFE.	TOP OF FOOTING ELEVATION
TPE.	TOP OF PIER ELEVATION
TSE.	TOP OF SLAB ELEVATION
TYP.	TYPICAL
U	
U.N.O.	UNLESS NOTED OTHERWISE
V	
VERT.	VERTICAL
W	
W	WEST
w/	WITH
W.P.	WORK POINT
W.W.F.	WELDED WIRE FABRIC

DRAWING INDEX

S1.01 TITLE SHEET/GENERAL NOTES
S2.01 COURTYARD FOUNDATION PLAN
S2.11 RETAINING WALL FOUNDATION PLANS
S2.12 RETAINING WALL ELEVATIONS
S3.01 SECTIONS & DETAILS
S3.02 SECTIONS & DETAILS

STRUCTURAL NOTES

I. DESIGN DATA

A. BUILDING CODE

1. INTERNATIONAL BUILDING CODE 2012 EDITION

B. DESIGN LOADS/DESIGN CRITERIA

1. WIND LOAD
   BASIC WIND SPEED (3-SECOND GUST)------ 115 MPH
   RISK CATEGORY II
   EXPOSURE---------- C

   THE WIND PRESSURE IN TERMS OF POUNDS PER SQUARE FOOT TO BE USED FOR THE DESIGN OF EXTERIOR COMPONENT AND CLADDING MATERIALS SHALL BE INDICATED ON THE SHOP DRAWING SUBMITTED BY THE SUPPLIED AND CERTIFIED BY A REGISTERED ENGINEER IN THE STATE OF THE PROJECT.

2. EARTHQUAKE DESIGN DATA
   RISK CATEGORY II
   MAPPED SPECTRAL RESPONSE ACCELERATIONS
   S_S------0.594 S_1------0.317
   SPECTRAL RESPONSE COEFFICIENTS
   S_{DS}------0.396 S_{D1}------0.211
   SITE CLASS----------B
   SEISMIC DESIGN CATEGORY----------D

C. FUTURE EXPANSION

THIS PROJECT IS DESIGNED FOR FUTURE EXPANSION, SEE CIVIL DRAWINGS FOR LOCATION.

D. GENERAL NOTES

1. IN ALL CASES WHERE A CONFLICT MAY OCCUR, SUCH AS BETWEEN REQUIREMENTS IN THE SPECIFICATION AND REQUIREMENTS ON THE DRAWINGS, THE STRUCTURAL ENGINEER OF RECORD SHALL BE IMMEDIATELY NOTIFIED IN WRITING AND THE STRUCTURAL ENGINEER OF RECORD SHALL INTERPRET THE INTENT OF THE CONTRACT DOCUMENT.

2. IN NO CASE, SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS OR DETAILS ON THE STRUCTURAL DRAWINGS.

3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOBSITE AND TO CROSS CHECK ALL DETAILS AND DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS WITH RELATED REQUIREMENTS ON THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND CIVIL DRAWINGS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCING WORK.

II. SITE WORK

A. GEOTECHNICAL REPORT

1. FOUNDATIONS, RETAINING WALLS, FOUNDATION DRAINAGE, SLABS ON GRADE & OTHER ITEMS RELATED TO THE SOILS ARE DESIGNED & SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RECOMMENDATIONS OF AGEGC REPORT DATED AUGUST 31, 2013 INCLUDING:

2. DESIGN NET SOIL BEARING CAPACITY IS AS FOLLOWS:
   A. SPREAD FOOTINGS---------- 2000 PSF
   B. STRIP FOOTINGS----------2000 PSF

3. ALLOWABLE PASSIVE PRESSURE ---------- 300 PCF

4. COEFFICIENT OF FRICTION---------- 0.4

5. MINIMUM DEPTH FROM EXTERIOR GRADE TO BOTTOM OF BUILDING PERIMETER FOOTINGS SHALL BE 1'-6".

6. FOUNDATION & RETAINING WALLS ARE DESIGNED FOR AN EQUIVALENT FLUID PRESSURE OF 35 PSF/FT ASSOCIATED WITH A CLEAN GRANULAR FILL. BACKFILL MATERIALS & OPERATIONS SHALL BE AS RECOMMENDED IN THE SOILS REPORT.

7. RETAINING WALLS HAVE BEEN DESIGNED FOR AN ADDITION 15 PCF EQUIVALENT FLUID PRESSURE TO ACCOUNT FOR SEISMIC LOADING. SOIL BEARING PRESSURES ASSOCIATED WITH THIS LOADING CONDITION HAVE BEEN INCREASED BY A FACTOR OF 1.3 TO ACCOUNT FOR THE TRANSIENT NATURE OF THE LOAD.

III. CONCRETE

A. CONCRETE MATERIAL PROPERTIES

1. CONCRETE PROPERTIES: f'c PSI 28 DAYS
   A. FOOTINGS----------4000
   B. FOUNDATION WALLS ----------4000
   C. EXTERIOR SLAB ON GRADE ----------4000
   D. COLUMNS----------4000
   H. PRECAST MEMBERS (MIN)----------5000

2. ALL EXTERIOR CONCRETE SHALL BE AIR ENTRAINED TO GIVE THE CONCRETE AN AIR CONTENT OF 6% +/- 1 % BY VOLUME.

B. REINFORCING MATERIAL PROPERTIES

1. REINFORCING PROPERTIES:

		fy KSI	ASTM
A.	ALL BARS UNLESS NOTED	60	A615
B.	TIES & STIRRUPS	60	A615
C.	WELDED WIRE FABRIC (SMOOTH)	65	A185
D.	POST-TENSIONING STRAND	270fpu	A416
E.	PRESTRESSING STRAND	270fpu	A416
F.	WELDABLE REBAR	60	A706

2. SOFT METRIC BAR SIZES VS. INCH-POUND (U.S. SYSTEM OF MEASURES) BAR SIZE TABLE. AST DRAWINGS REFLECT THE U.S. SYSTEM OF MEASURE.

INCH-POUND BAR SIZE DESIGNATION	SOFT METRIC BAR SIZE DESIGNATION
#3	#10
#4	#13
#5	#16
#6	#19
#7	#22
#8	#25
#9	#29
#10	#32
#11	#36
#14	#43
#18	#57

C. CAST IN PLACE CONCRETE

1. ALL CONCRETE SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH IBC CHAPTER 19 & ACI-318, 2011EDITION.

2. ALL REINFORCING SHALL BE DETAILED, FABRICATED & PLACED IN ACCORDANCE WITH CRSI "MANUAL OF STANDARD PRACTICE", LATEST EDITION. THE STEEL REINFORCING SUPPLIER SHALL SUBMIT SHOP DRAWINGS FOR ALL ELEMENTS & MEMBERS WITH REINFORCING FURNISHED BY THE SUPPLIER.

3. SPACING OF CONSTRUCTION OR CONTROL JOINTS IN CONCRETE WALLS EXPOSED TO VIEW SHALL NOT EXCEED 40 FEET UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. CUT HALF OF THE HORIZONTAL REINFORCING AT CONTROL JOINTS.

4. AT COLUMBARIUM AND MEMORIAL WALL CONCRETE WALLS, COORDINATE CONCRETE WALL VERTICAL CONTROL JOINTS WITH EXPANSION JOINTS IN STONE VENEER. PROVIDE CONTROL JOINTS ON EACH SIDE OF COLUMNS/PIERS, AND AT A MAXIMUM SPACING OF 20 FEET O.C. IN-BETWEEN.

5. SLEEVES EMBEDDED IN SLABS AND WALLS SHALL BE LOCATED CLEAR BETWEEN REINFORCING BARS AND SHALL MAINTAIN CLEAR SPACING EQUAL TO THE DIAMETER OF THE LARGEST SLEEVE IN ANY DIRECTION. SLEEVE GROUPS THAT DO NOT COMPLY WITH THE ABOVE REQUIREMENTS SHALL BE CONSIDERED AS AN OPENING AND REINFORCED PER NOTE #5 BELOW.

6. UNLESS NOTED OTHERWISE ON THE DRAWINGS: PROVIDE EXTRA REINFORCING ON ALL SIDES OF ALL MISCELLANEOUS WALL AND SLAB OPENINGS EQUAL TO ONE HALF THE INTERRUPTED REINFORCING BARS EACH SIDE BUT NOT LESS THAN 2 - #5 FOR EACH LAYER OF REINF0RCEMENT. EXTEND BARS CLASS 'B' LAP LENGTH BUT NOT LESS THAN 2 FEET BEYOND EDGE OF OPENINGS. PROVIDE 2 - #4x4'-0" DIAGONAL BARS AT EACH CORNER FOR EACH LAYER OF REINFORCEMENT.

7. PROVIDE A 3/4" CHAMFER ON ALL EXPOSED CORNERS OF CONCRETE.

8. REBAR WIRE TIES SHALL BE BENT INWARD TOWARD THE CENTER OF THE WALL/COLUMN/PIER BEING PLACED. THEY SHALL NOT EXTEND INTO THE CONCRETE COVER BETWEEN THE REBAR AND THE OUTSIDE FACE OF EXPOSED CONCRETE.

9. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:
   MINIMUM COVER IN
   A. CONCRETE CAST AGAINST & PERMANENTLY EXPOSED TO EARTH----------3
   B. CONCRETE EXPOSED TO EARTH OR WEATHER:
      #6 THRU #18 BARS ----------2
      #5 & SMALLER BARS ----------1 1/2
   C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
      SLABS & WALLS: #14 & #18 BARS----------1 1/2
      #11 & SMALLER BARS----------3/4

      BEAMS & COLUMNS:
      PRIMARY REINFORCEMENT, TIES & STIRRUPS----1 1/2

D. PRECAST PRESTRESSED CONCRETE

1. THE PRECAST SUPPLIER SHALL SUBMIT SHOP DRAWINGS & DESIGN CALCULATIONS CERTIFIED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT FOR ALL ELEMENTS & MEMBERS FURNISHED BY THE PRECAST SUPPLIER.

2. THE PRECAST SUPPLIER SHALL PROVIDE ALL OPENINGS, BLOCKOUTS, INSERTS, ETC. REQUIRED IN THE PRECAST MEMBERS.

3. THE PRECAST SUPPLIER SHALL DESIGN, FURNISH & INSTALL ALL CONNECTIONS & HEADERS REQUIRED TO ATTACH & SUPPORT PRECAST MEMBERS, U.N.O.

4. THE DESIGN OF ALL MEMBERS & ELEMENTS SHOWN ON THE DRAWINGS ARE FOR THE IN-PLACE COMPLETED STRUCTURE. ALL LOADING CRITERIA & VERIFICATION OF DESIGN FOR LOADING SUCH AS STRIPPING, HANDLING, TRANSPORTATION & ERECTIONS ARE THE SOLE RESPONSIBILITY OF THE PRECAST SUPPLIER.

IV. STEEL

A. STEEL MATERIAL PROPERTIES

1. STEEL PROPERTIES:

		FY,PSI	ASTM
A.	STRUCTURAL WIDE FLANGE SHAPES	50,000	A992
B.	OTHER STRUCT. SHAPES & PLATES, ETC	36,000	A36
C.	HIGH STRENGTH BOLTS, U.N.O.	74,000	A325
D.	ANCHOR BOLTS	36,000	F1554
E.	WELDING ELECTRODES:		
	a. CARBON STEEL	E70XX	A233
	b. STAINLESS STEEL	E316L-XX	
F.	DECK WELDING ELECTRODES	360XX	A233
G.	STRUCTURAL PIPES	35,000	A53 GRADE B
H.	STRUCTURAL TUBES	46,000	A500 GRADE B
I.	HEADED STUDS, TYPE B (Fu=65,000)	51,000	AWS D1.1 CHAPTER 7
J.	STAINLESS STEEL (316L)	25,000	A276

BID DOCUMENTS

No.	Revisions	Date

Advanced Structural Technologies
7212 Metro Boulevard
Edina, MN 55439
(952) 854-9302 tel
(952) 854-9690 fax
www.astmn.com

Water in Motion
Professionals in Outdoor Water Use, Reuse, Consulting & Water Management
175 James Ave N | Minneapolis, MN 55405
p 763-559-1010 | f 763-559-7779
www.watermotion.com

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TECHNOLOGY MEDICAL EQUIPMENT SOLUTIONS

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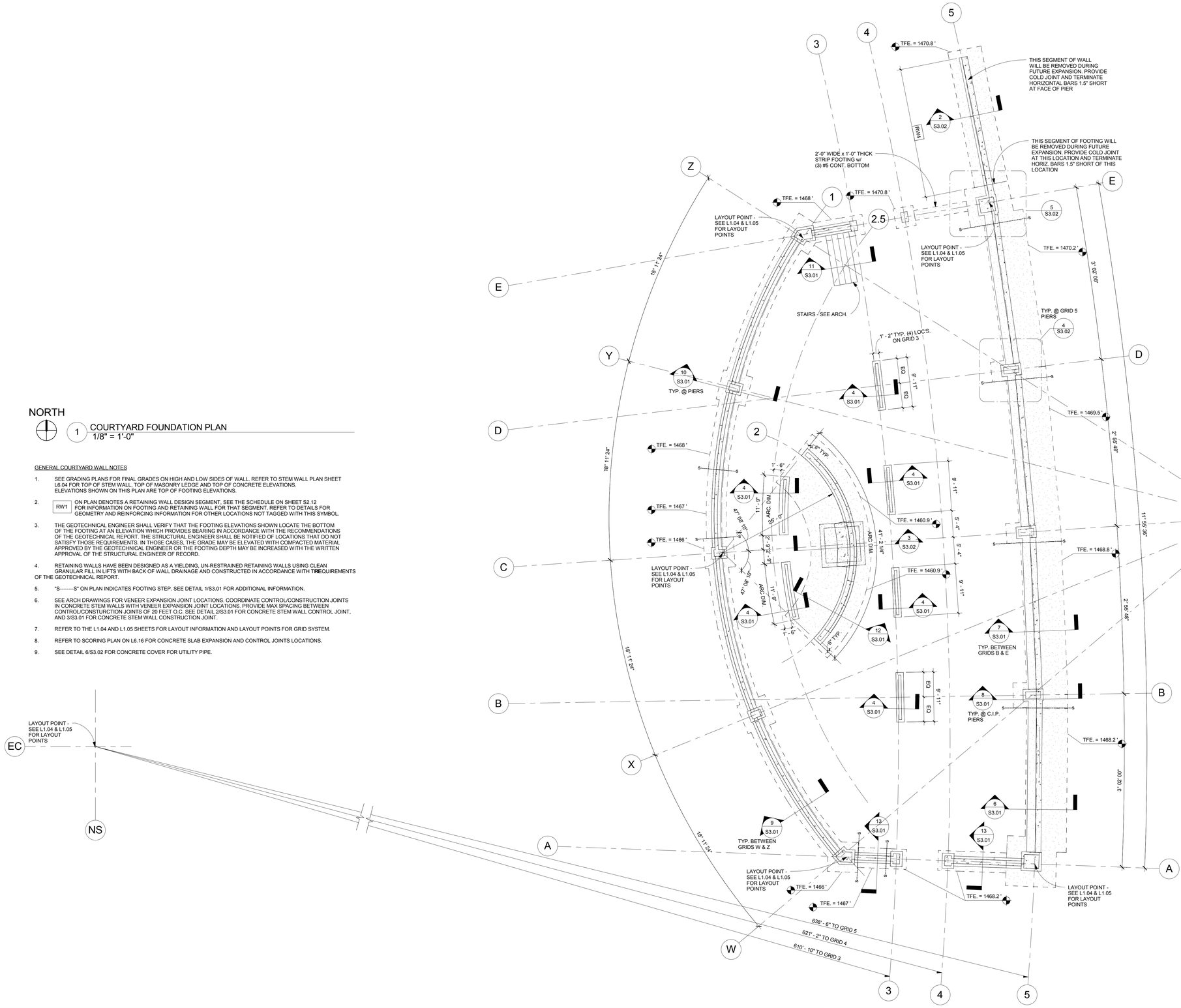
ENVIRONMENTAL SERVICES • LANDSCAPE ARCHITECTURE
Anderson Engineering of Minnesota, LLC
13605 1st Avenue North; Suite 100; Plymouth, MN 55441
763-412-4000 (o) 763-412-4090 (f) www.ae-mn.com
AE COMM. #13282

REGISTERED PROFESSIONAL ENGINEER 78736 OREGON 10-9-15 PAUL E. STOLE
Expiration Date: 6-30-2016

NATIONAL CEMETERY ADMINISTRATION

Drawing Title	Project Title	Date
TITLE SHEET/GENERAL NOTES	CEMETERY EXPANSION	10-09-2015
		Project Number 906-CM-3012
Approved: Director, Office of Construction Management	Building Number / Checked JL / Drawn JR	DRAWING NO. S1.01
Approved: Director, Project Management Service	Location EAGLE POINT, OREGON	Dwg. 69 of 85

10/7/2015 3:03:31 PM



GENERAL COURTYARD WALL NOTES

1. SEE GRADING PLANS FOR FINAL GRADES ON HIGH AND LOW SIDES OF WALL. REFER TO STEM WALL PLAN SHEET L6.04 FOR TOP OF STEM WALL, TOP OF MASONRY LEDGE AND TOP OF CONCRETE ELEVATIONS. ELEVATIONS SHOWN ON THIS PLAN ARE TOP OF FOOTING ELEVATIONS.

2. RW1 — ON PLAN DENOTES A RETAINING WALL DESIGN SEGMENT, SEE THE SCHEDULE ON SHEET S2.12 FOR INFORMATION ON FOOTING AND RETAINING WALL FOR THAT SEGMENT. REFER TO DETAILS FOR GEOMETRY AND REINFORCING INFORMATION FOR OTHER LOCATIONS NOT TAGGED WITH THIS SYMBOL.

3. THE GEOTECHNICAL ENGINEER SHALL VERIFY THAT THE FOOTING ELEVATIONS SHOWN LOCATE THE BOTTOM OF THE FOOTING AT AN ELEVATION WHICH PROVIDES BEARING IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED OF LOCATIONS THAT DO NOT SATISFY THOSE REQUIREMENTS. IN THOSE CASES, THE GRADE MAY BE ELEVATED WITH COMPACTED MATERIAL APPROVED BY THE GEOTECHNICAL ENGINEER OR THE FOOTING DEPTH MAY BE INCREASED WITH THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.

4. RETAINING WALLS HAVE BEEN DESIGNED AS A YIELDING, UN-RESTRAINED RETAINING WALLS USING CLEAN GRANULAR FILL IN LIFTS WITH BACK OF WALL DRAINAGE AND CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE GEOTECHNICAL REPORT.

5. "S---------S" ON PLAN INDICATES FOOTING STEP. SEE DETAIL 1/S3.01 FOR ADDITIONAL INFORMATION.

6. SEE ARCH DRAWINGS FOR VENEER EXPANSION JOINT LOCATIONS. COORDINATE CONTROL/CONSTRUCTION JOINTS IN CONCRETE STEM WALLS WITH VENEER EXPANSION JOINT LOCATIONS. PROVIDE MAX SPACING BETWEEN CONTROL/CONSTURCTION JOINTS OF 20 FEET O.C. SEE DETAIL 2/S3.01 FOR CONCRETE STEM WALL CONTROL JOINT, AND 3/S3.01 FOR CONCRETE STEM WALL CONSTRUCTION JOINT.

7. REFER TO THE L1.04 AND L1.05 SHEETS FOR LAYOUT INFORMATION AND LAYOUT POINTS FOR GRID SYSTEM.

8. REFER TO SCORING PLAN ON L6.16 FOR CONCRETE SLAB EXPANSION AND CONTROL JOINTS LOCATIONS.

9. SEE DETAIL 6/S3.02 FOR CONCRETE COVER FOR UTILITY PIPE.

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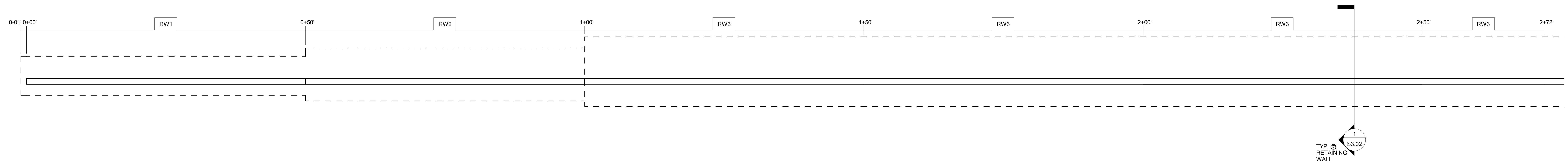
AE COMM. #13282

REGISTERED PROFESSIONAL ENGINEER 78736 OREGON PAUL E. STOLC
Expiration Date: 6-30-2016

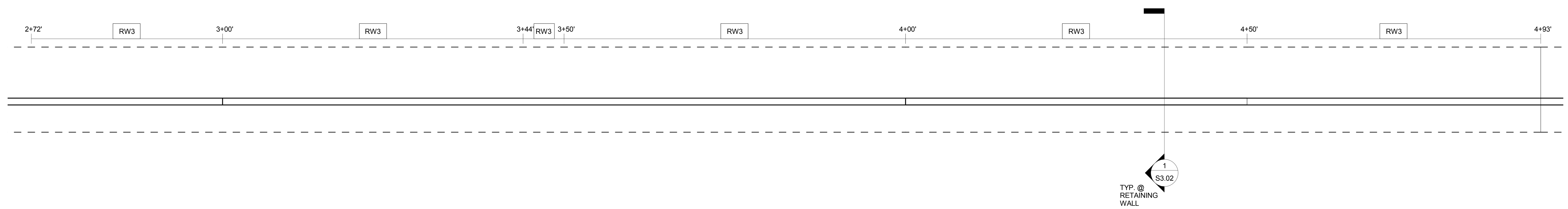
NATIONAL CEMETERY ADMINISTRATION

Drawing Title	Project Title	Date
COURTYARD FOUNDATION PLANS	CEMETERY EXPANSION	10-09-2015
		Project Number 906-CM-3012
Approved: Director, Office of Construction Management	Building Number / Checked JL / Drawn JR	DRAWING NO. S2.01
Approved: Director, Project Management Service	Location EAGLE POINT, OREGON	Dwg. 70 of 85

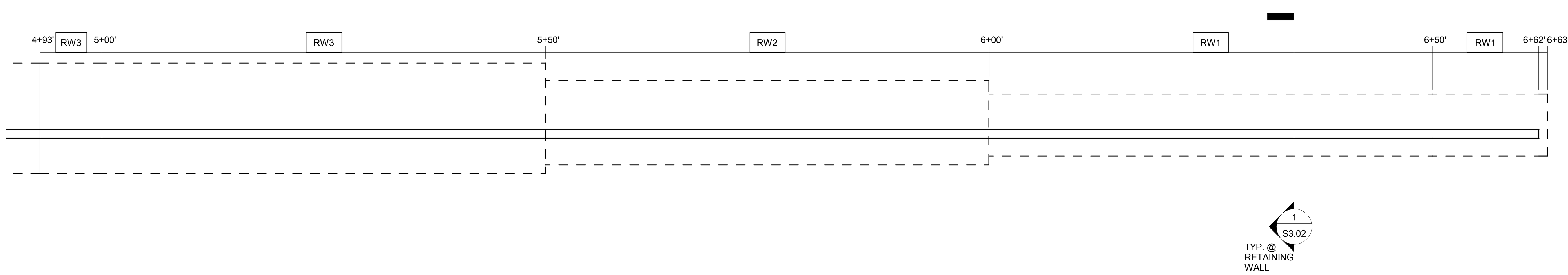
10/7/2015 3:03:31 PM



NORTH 1 RETAINING WALL FOUNDATION PLAN - SEGMENT 1
1/8" = 1'-0"



NORTH 2 RETAINING WALL FOUNDATION PLAN - SEGMENT 2
1/8" = 1'-0"

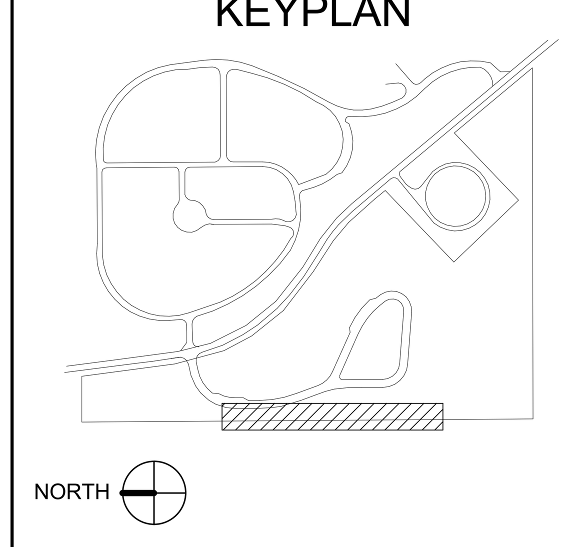


NORTH 3 RETAINING WALL FOUNDATION PLAN - SEGMENT 3
1/8" = 1'-0"

RETAINING WALL NOTES

1. SEE GRADING PLANS FOR FINAL GRADES ON HIGH AND LOW SIDES OF WALL.
2. RW1 ON PLAN DENOTES A RETAINING WALL DESIGN SEGMENT, SEE THE SCHEDULE ON SHEET S2.12 FOR INFORMATION ON FOOTING AND RETAINING WALL FOR THAT SEGMENT.
3. THE GEOTECHNICAL ENGINEER SHALL VERIFY THAT THE FOOTING ELEVATIONS SHOWN LOCATE THE BOTTOM OF THE FOOTING AT AN ELEVATION WHICH PROVIDES BEARING IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED OF LOCATIONS THAT DO NOT SATISFY THOSE REQUIREMENTS. IN THOSE CASES, THE GRADE MAY BE ELEVATED WITH COMPACTED MATERIAL APPROVED BY THE GEOTECHNICAL ENGINEER OR THE FOOTING DEPTH MAY BE INCREASED WITH THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.
4. RETAINING WALL(S) HAS BEEN DESIGNED AS A YIELDING, UN-RESTRAINED RETAINING WALL USING CLEAN GRANULAR FILL IN LIFTS WITH BACK OF WALL DRAINAGE AND CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE GEOTECHNICAL REPORT.
5. "S--------S" ON PLAN INDICATES FOOTING STEP. SEE DETAIL 1/S3.01 FOR ADDITIONAL INFORMATION.
6. "C.J." ON PLAN DENOTES RETAINING WALL CONTROL JOINT. TYPICAL RETAINING WALL CONTROL JOINT SPACING IS 25'-0" AND IS SHOWN ON SHEET S2.12. SEE DETAIL 14/S3.01.
7. "E.J." ON PLAN DENOTES RETAINING WALL EXPANSION JOINT. TYPICAL RETAINING WALL EXPANSION JOINT SPACING IS 100'-0" AND IS SHOWN ON SHEET S2.12. SEE DETAIL 15/S3.01.

KEYPLAN



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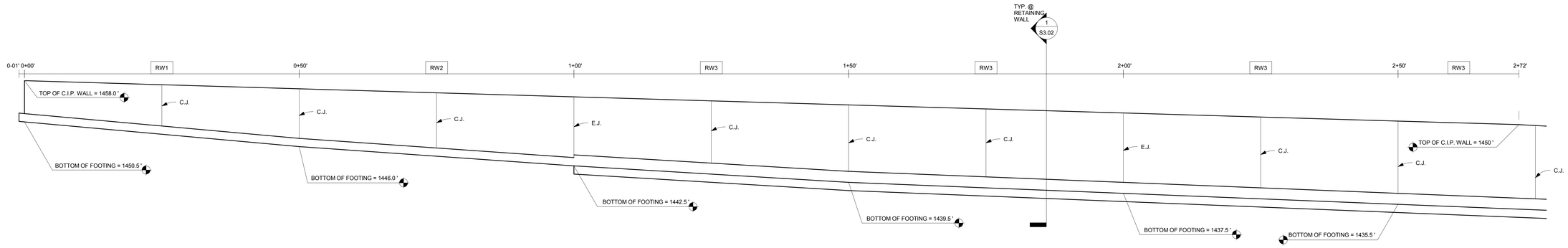
REGISTERED PROFESSIONAL ENGINEER
78736
OREGON
PAUL E. STOLE
Expiration Date: 6-30-2016

NATIONAL CEMETERY ADMINISTRATION

Drawing Title	Project Title	Date
RETAINING WALL FOUNDATION PLAN	CEMETERY EXPANSION	10-09-2015
		Project Number 906-CM-3012
Approved: Director, Office of Construction Management	Building Number / Checked JL / Drawn EZ	DRAWING NO. S2.11
Approved: Director, Project Management Service	Location EAGLE POINT, OREGON	Dwg. 71 of 85

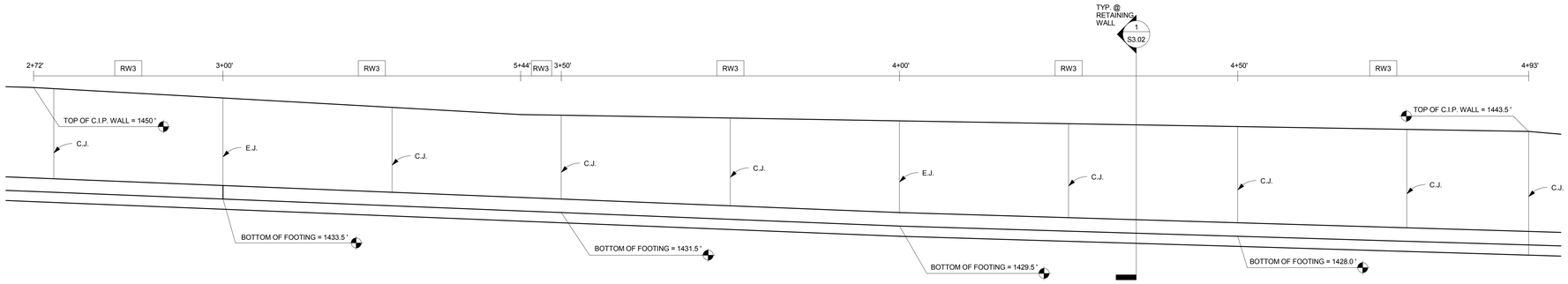
10/7/2015 3:03:36 PM



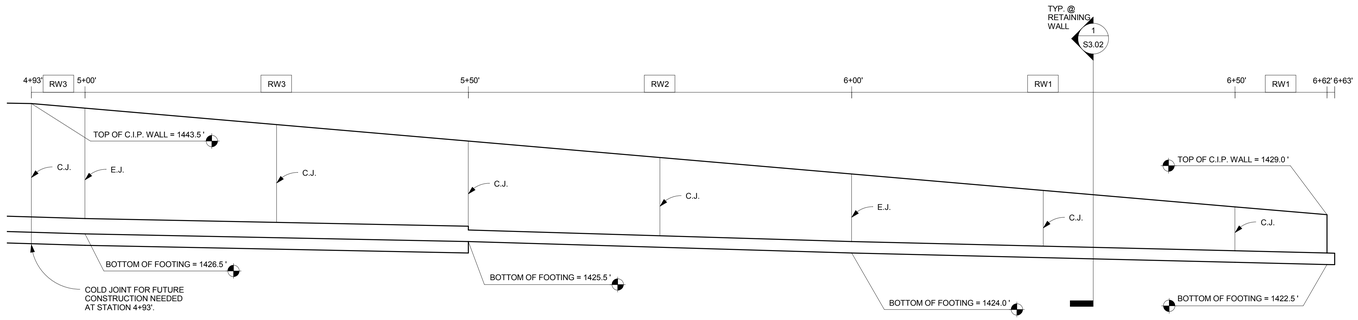
1 RETAINING WALL ELEVATION - SEGMENT 1
1/8" = 1'-0"

RETAINING WALL ELEVATION NOTES

1. REFER TO SHEET S2.11 FOR NOTES.



2 RETAINING WALL ELEVATION - SEGMENT 2
1/8" = 1'-0"



3 RETAINING WALL ELEVATION - SEGMENT 3
1/8" = 1'-0"

CAST-IN-PLACE CANTILEVER RETAINING WALL SCHEDULE

MARK	FOOTING GEOMETRY				FOOTING REINFORCING				KEY GEOMETRY		KEY REINFORCING			WALL GEOMETRY		WALL REINFORCING				REMARKS
					TOP	TOP	BOTTOM	BOTTOM			U-BAR	TOP	BOTTOM			INTERIOR	INTERIOR	EXTERIOR	EXTERIOR	
	THICKNESS	TOE DIM.	HEEL DIM.	TOTAL WIDTH	A (LONG)	B (TRAN)	C (LONG)	D (TRAN)	THICKNESS	DEPTH	A (VERT.)	B (LONG)	C (LONG)	STEM	TAPER	A (VERT.)	B (HORIZ.)	C (VERT.)	D (HORIZ.)	
RW-1	1'-6"	2'-0"	4'-0"	7'-0"	(7) #5	#4@12"	(4) #5	#5@12"	NA	NA	NA	NA	NA	12"	NONE	#5@12"	#4@12"	#4@12"	#4@12"	
RW-2	1'-6"	3'-0"	5'-6"	9'-6"	(9) #5	#6@12"	(5) #5	#7@12"	NA	NA	NA	NA	NA	12"	NONE	#7@12"	#4@12"	#4@12"	#4@12"	
RW-3	2'-0"	4'-0"	7'-6"	12'-6"	(12) #5	#6@10"	(5) #5	#7@10"	12"	18"	#5@12"	(2) #5	(2) #5	12"	NONE	#8@10"	#4@12"	#4@10"	#4@12"	
RW-4	1'-6"	2'-0"	3'-7"	6'-9"	(7) #5	#4@12"	(3) #5	#5@12"	NA	NA	NA	NA	NA	14"	SHELF	#5@12"	#4@12"	NA	NA	SHELF AT BASE OF STEM SEE DTL. 2/S3.02

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AE COMM. #13282

REGISTERED PROFESSIONAL ENGINEER 78736 OREGON PAUL E. STOKE
Expiration Date: 6-30-2016

NATIONAL CEMETERY ADMINISTRATION

Drawing Title	Project Title	Date
RETAINING WALL ELEVATIONS	CEMETERY EXPANSION	10-09-2015
		Project Number 906-CM-3012
Approved: Director, Office of Construction Management	Building Number / Checked: JL / Drawn: EZ	DRAWING NO. S2.12
Approved: Director, Project Management Service	Location: EAGLE POINT, OREGON	Dwg. 72 of 85

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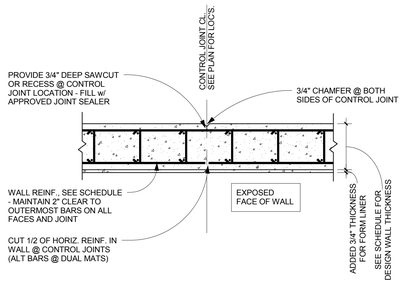
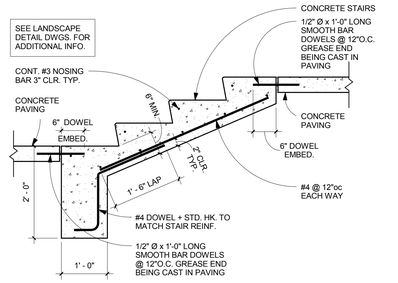
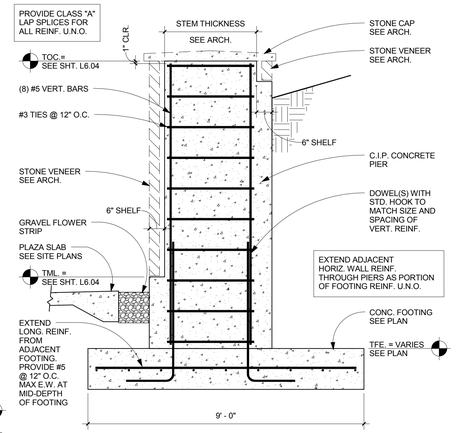


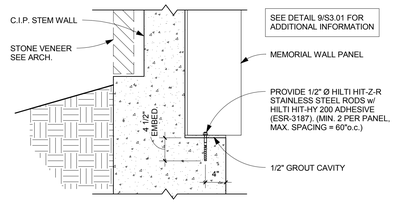
14 RETAINING WALL CONTROL JOINT
3/4" = 1'-0"



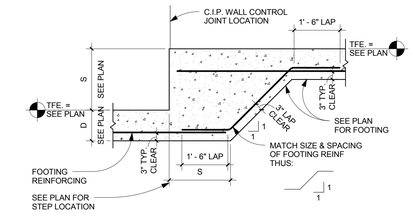
11 SECTION
3/4" = 1'-0"



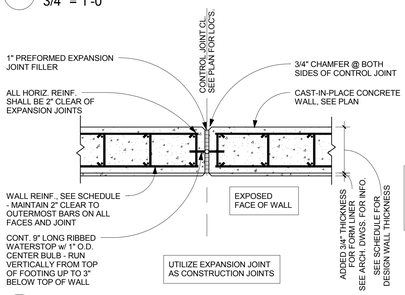
8 SECTION
1/2" = 1'-0"



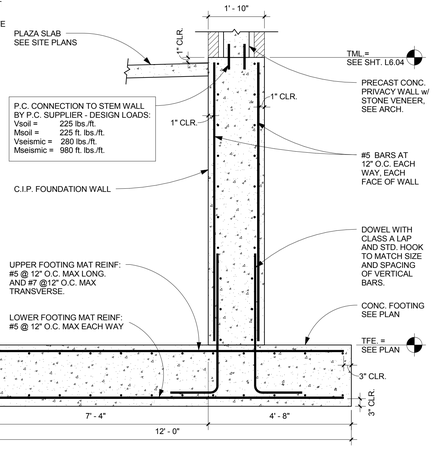
5 SECTION
1" = 1'-0"



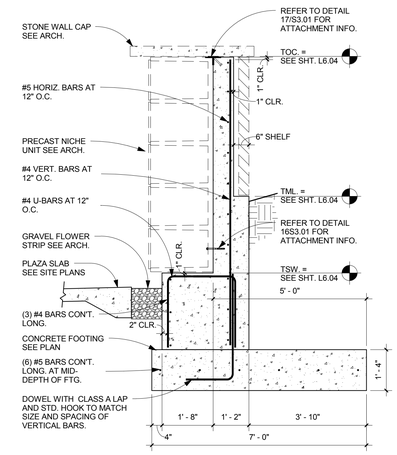
1 TYPICAL STRIP FOOTING STEP
1/2" = 1'-0"



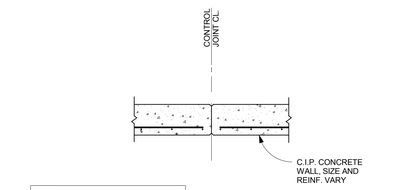
15 RETAINING WALL EXPANSION JOINT
3/4" = 1'-0"



12 SECTION
1/2" = 1'-0"

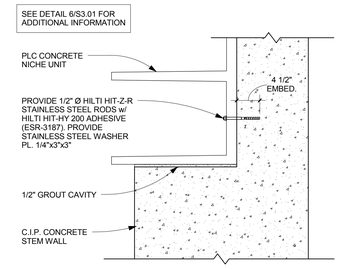


6 SECTION
1/2" = 1'-0"

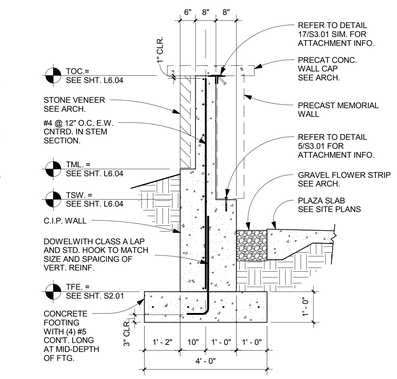


NOTE:
CUT 1/2 OF THE HORIZ. WALL REINF. @ CONTROL JOINT LOCATIONS

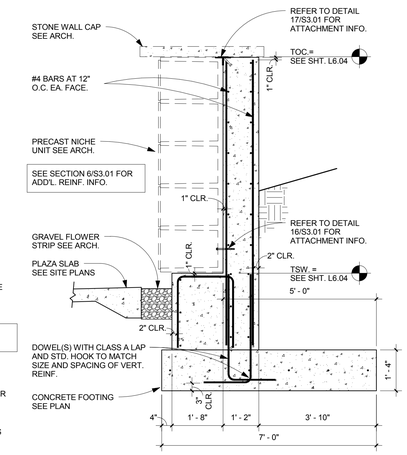
2 TYPICAL CONCRETE WALL CONTROL JOINT
1/2" = 1'-0"



16 SECTION
1" = 1'-0"



9 SECTION
1/2" = 1'-0"



7 SECTION
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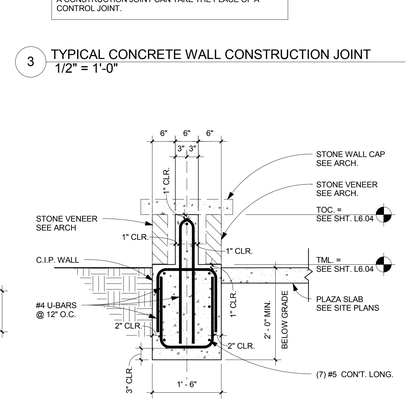
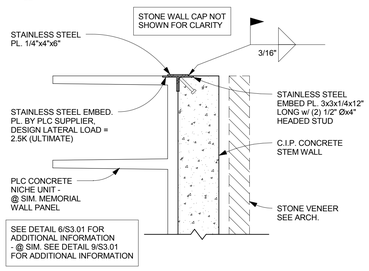


4 SECTION
3/4" = 1'-0"



17 SECTION
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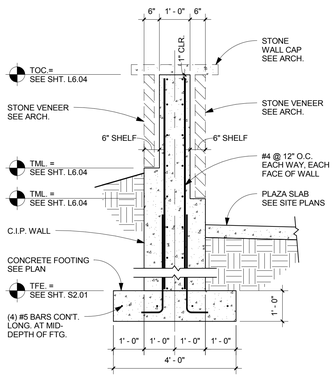
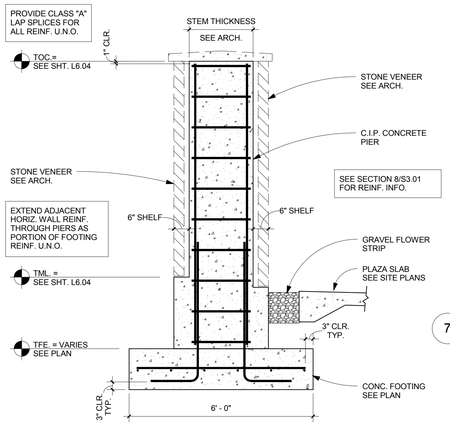


13 SECTION
1/2" = 1'-0"



10 SECTION
1/2" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER 78736 OREGON 10-09-15 PAUL E. STOLE
Expiration Date: 6-30-2016

NATIONAL CEMETERY ADMINISTRATION

Drawing Title	Project Title			Date
SECTIONS & DETAILS	CEMETERY EXPANSION			10-09-2015
				Project Number 906-CM-3012
Approved: Director, Office of Construction Management	Building Number	Checked JL	Drawn JR	DRAWING NO.
Approved: Director, Project Management Service	Location EAGLE POINT, OREGON			S3.01
				Dwg. 73 of 85

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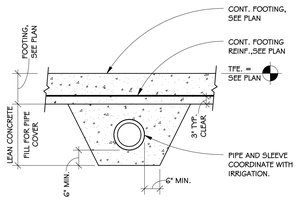
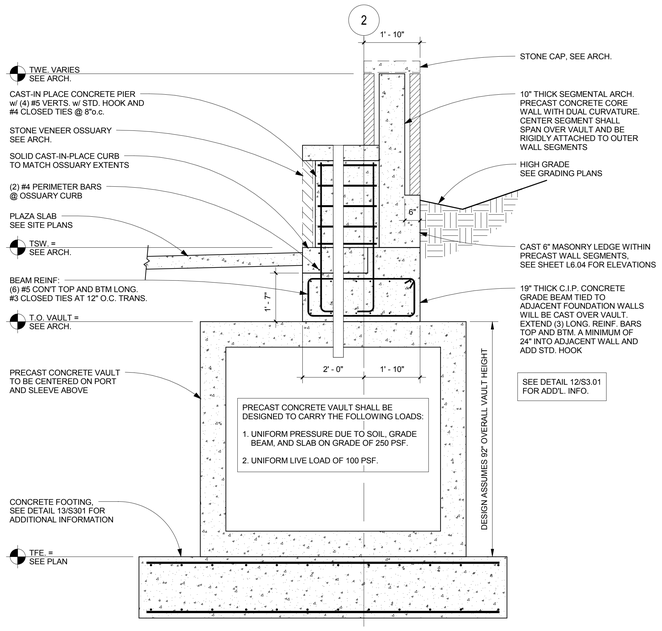
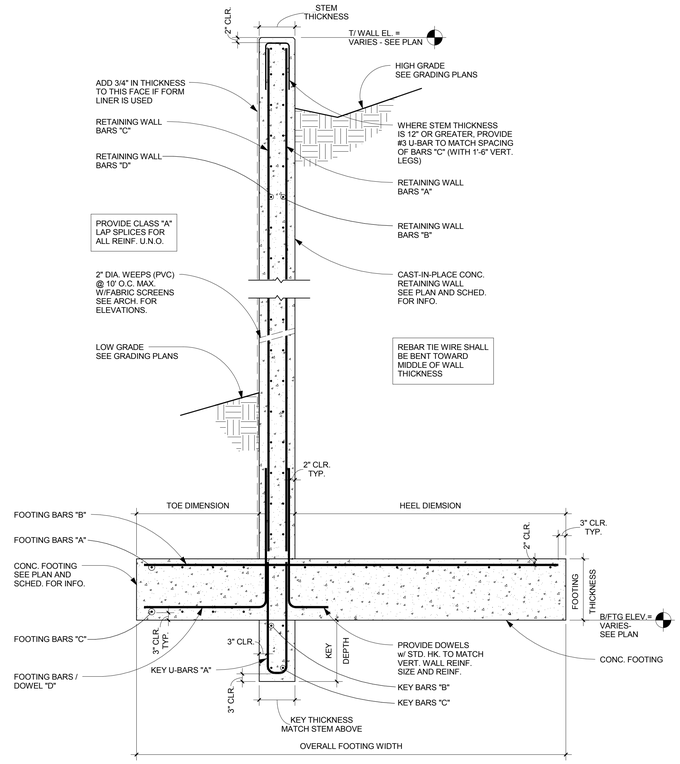


6 CONCRETE COVER FOR UTILITY PIPE
1/2" = 1'-0"



3 SECTION
1/2" = 1'-0"



1 SECTION
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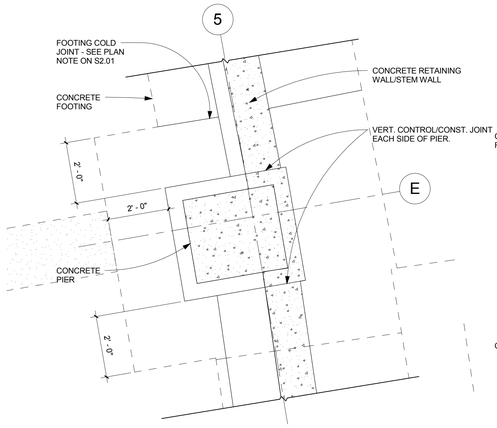
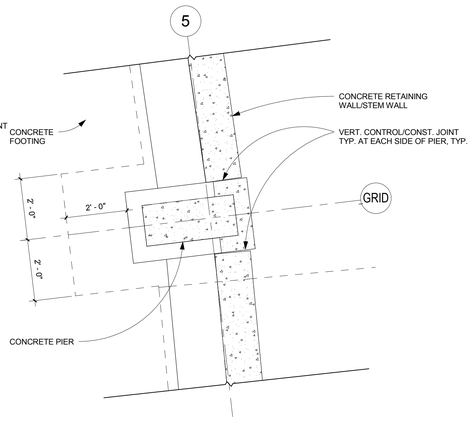
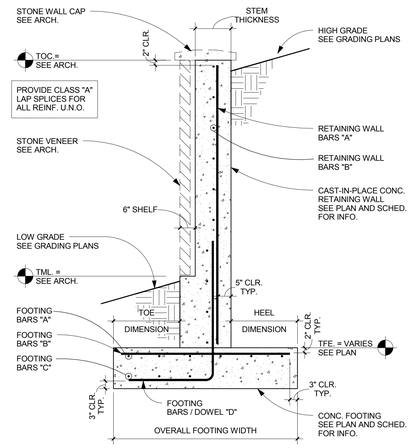


5 PLAN DETAIL
1/2" = 1'-0"



4 PLAN DETAIL
1/2" = 1'-0"



2 SECTION
1/2" = 1'-0"

BID DOCUMENTS

No.	Revisions	Date

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Expiration Date: 6-30-2016

NATIONAL CEMETERY ADMINISTRATION

Drawing Title	Project Title		Date
SECTIONS & DETAILS	CEMETERY EXPANSION		10-09-2015
			Project Number 906-CM-3012
Approved: Director, Office of Construction Management	Building Number	Checked JL / Drawn JR	DRAWING NO. S3.02
Approved: Director, Project Management Service	Location EAGLE POINT, OREGON		Dwg. 74 of 85

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