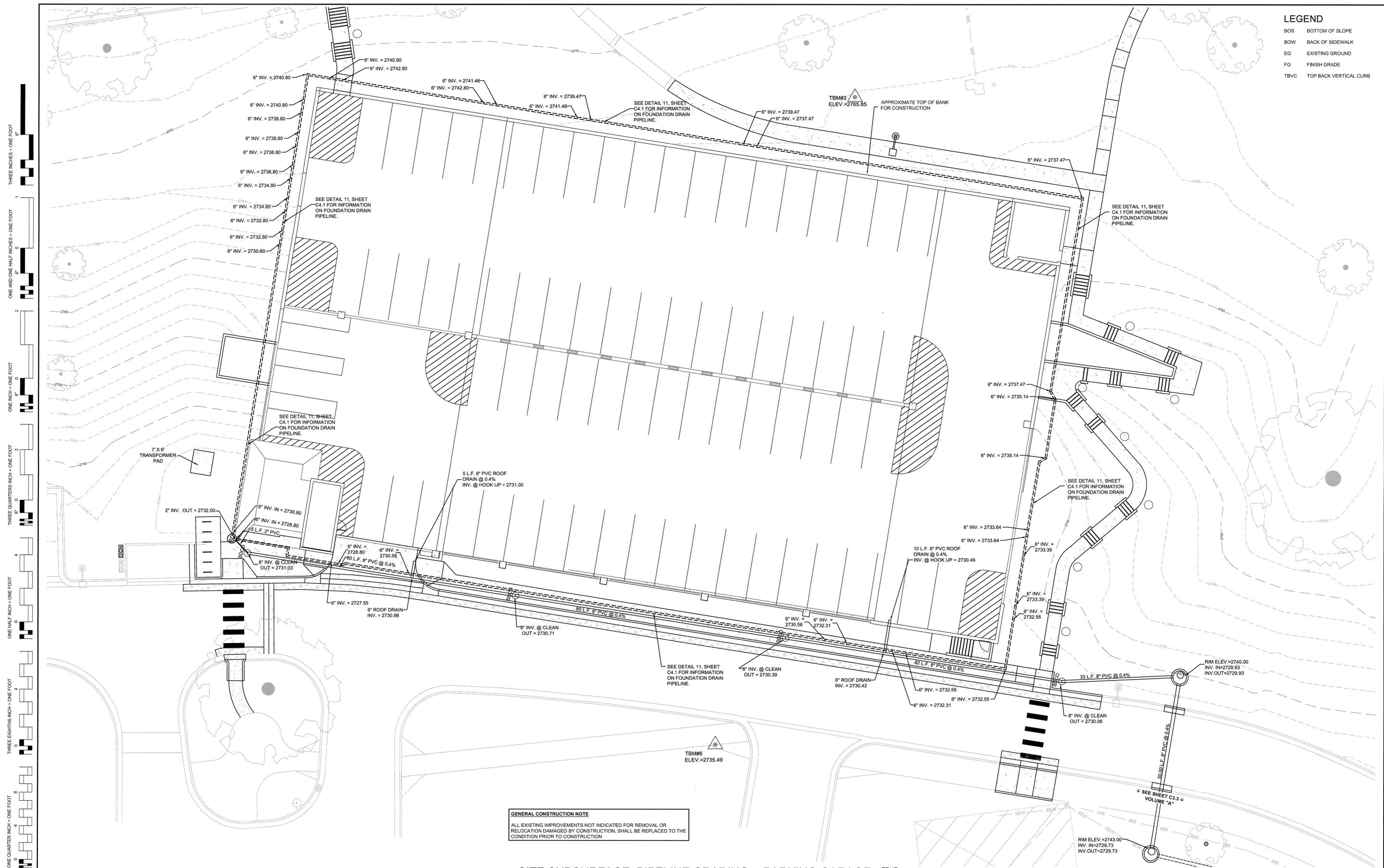


- LEGEND**
- BOS BOTTOM OF SLOPE
 - BOW BACK OF SIDEWALK
 - EG EXISTING GROUND
 - FG FINISH GRADE
 - TBVC TOP BACK VERTICAL CURB



GENERAL CONSTRUCTION NOTE
 ALL EXISTING IMPROVEMENTS NOT INDICATED FOR REMOVAL OR RELOCATION DAMAGED BY CONSTRUCTION, SHALL BE REPLACED TO THE CONDITION PRIOR TO CONSTRUCTION

SITE SUBSURFACE PIPELINE GRADING - PARKING GARAGE



REVISIONS	DATE

B & A Engineers, Inc.
 Consulting Engineers, Surveyors & Planners
 5505 West Franklin Road Boise, ID 83705
 Voice: 208.343.3381 Fax: 208.342.5792
 Web: http://www.baengineers.com

ZGA ARCHITECTS & PLANNERS, CHARTERED

408 E. Parkcenter Blvd., Suite 205 | Boise, Idaho 83706 | t: (208) 345.8872 | f: (208) 343.7162 | www.zga.com

CAD FILE NAME: 531-322_C3.1_A.dwg
XREF FILE NAME: xVAford.dwg

DRAWING TITLE SITE SUBSURFACE PIPELINE GRADING FOR PARKING GARAGE
APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE
APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE VAMC PARKING GARAGE VOLUME A
BUILDING NUMBER 125
CHECKED JDC
DRAWN CAA
LOCATION BOISE, IDAHO

DATE 05/13/2016
PROJECT NO. 531-322
DRAWING NO. C3.1
DWG 10 OF 126

FOR CONSTRUCTION

DEPARTMENT OF VETERANS AFFAIRS

LEGEND

- BOS BOTTOM OF SLOPE
- BW BACK OF SIDEWALK
- EG EXISTING GROUND
- FG FINISH GRADE
- TBVC TOP BACK VERTICAL CURB
- SW SIDEWALK GRADE
- TR AT STAIR TREAD
- TW TOP OF WALL
- CROSS SLOPE DIRECTION
- FF FINISH FLOOR
- BOC BACK OF CURB
- LIP LIP OF GUTTER
- BF BOTTOM OF FOOTING OF RETAINING WALL



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SITE FINISH GRADING - PARKING GARAGE

1"=10'-0"



REVISIONS	DATE

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CAD FILE NAME: 531-322_C3.2_A.dwg
XREF FILE NAME: xVAbord.dwg

DRAWING TITLE SITE FINISH GRADING FOR PARKING GARAGE
APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE
APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE VAMC PARKING GARAGE VOLUME A
BUILDING NUMBER 125
CHECKED JDC
DRAWN CAA
LOCATION BOISE, IDAHO

DATE 05/13/2016
PROJECT NO. 531-322
DRAWING NO. C3.2
DWG 11 OF 126

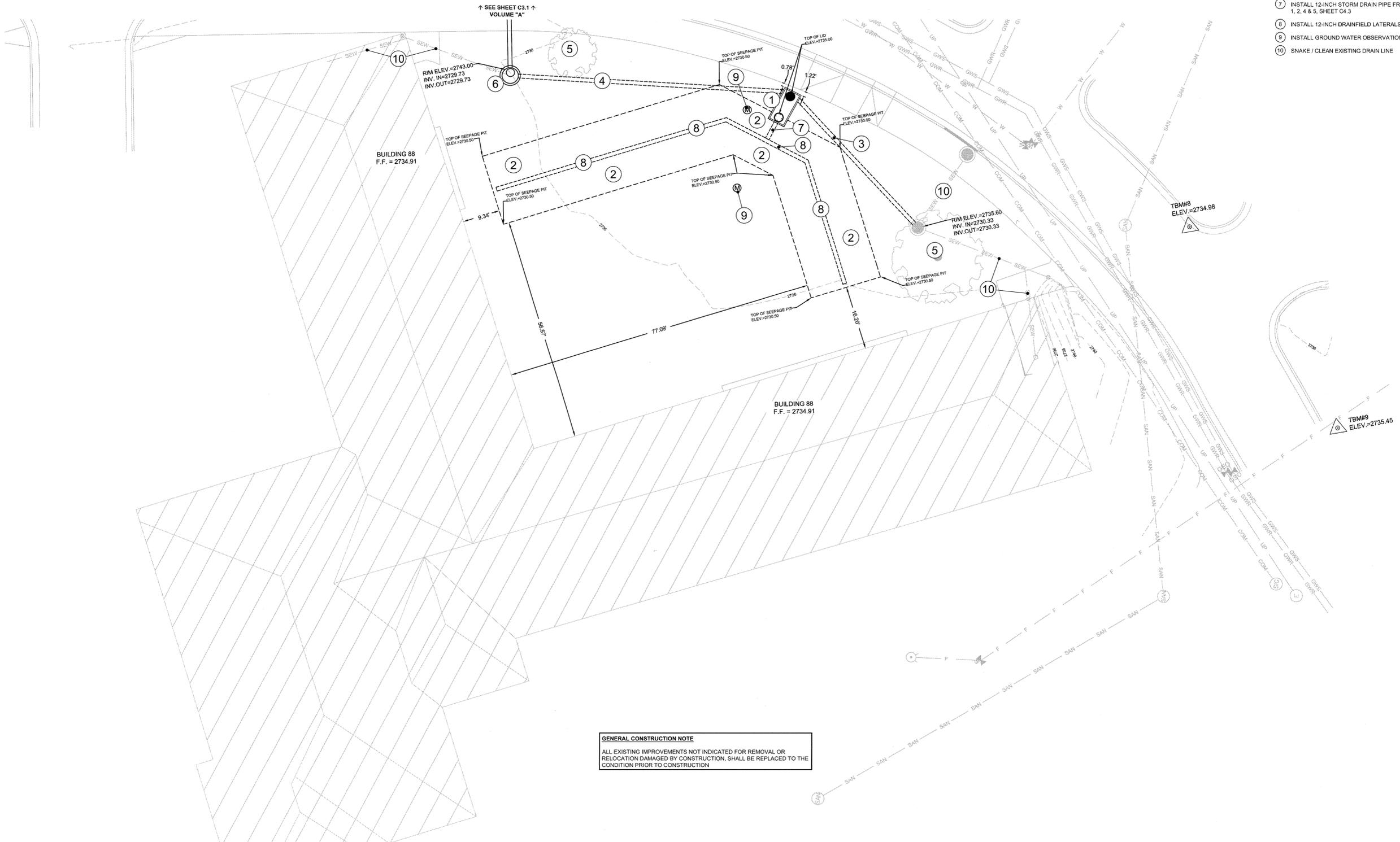
FOR CONSTRUCTION

DEPARTMENT OF VETERANS AFFAIRS

THREE INCHES = ONE FOOT
 ONE AND ONE HALF INCHES = ONE FOOT
 ONE INCH = ONE FOOT
 THREE QUARTERS INCH = ONE FOOT
 ONE HALF INCH = ONE FOOT
 THREE EIGHTHS INCH = ONE FOOT
 ONE QUARTER INCH = ONE FOOT
 ONE EIGHTH INCH = ONE FOOT

GARAGE DRAINAGE KEYNOTES

- 1 INSTALL 1,000 GALLON CONCRETE SEDIMENT TANK PER DETAILS 1, 2, 4 & 5, SHEET C4.3
- 2 CONSTRUCT SEEPAGE BED PER DETAILS 1, 2, 4 & 5, SHEET C4.3
- 3 INSTALL 10-INCH PVC PIPE FROM EXISTING STORM SEWER TO NEW SEDIMENT TANK AS PER DETAILS 1, 2, 4 & 5, SHEET C4.3
- 4 INSTALL 8-INCH PVC PIPE FROM PARKING GARAGE ROOF DRAINS TO SEDIMENT TANK AS PER DETAILS 1, 2, 4 & 5, SHEET C4.3
- 5 EXISTING TREE - RETAIN AND PROTECT
- 6 INSTALL STORM DRAIN MANHOLE PER DETAILS 4, 6 & 7, SHEET C4.0
- 7 INSTALL 12-INCH STORM DRAIN PIPE FROM SEDIMENT TANK TO DRAIN FIELD AS PER DETAILS 1, 2, 4 & 5, SHEET C4.3
- 8 INSTALL 12-INCH DRAINFIELD LATERALS AS PER DETAILS 1, 2, 4 & 5, SHEET C4.3
- 9 INSTALL GROUND WATER OBSERVATION WELL AS PER DETAIL 3, SHEET C4.3
- 10 SNAKE / CLEAN EXISTING DRAIN LINE



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SUBSURFACE GRADING - BUILDING 88 SITE
 TRUE NORTH
 PLAN NORTH

REVISIONS	DATE

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 Consulting Engineers, Surveyors & Planners
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CAD FILE NAME:
531-322_C3.3_A.dwg
 XREF FILE NAME:
xVAbord.dwg

DRAWING TITLE:
SUBSURFACE DRAINAGE PIPELINE GRADING FOR BUILDING 88 SITE

APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE
 APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE:
VAMC PARKING GARAGE VOLUME A

BUILDING NUMBER:
88 & 125

CHECKED:
JDC

DRAWN:
CAA

LOCATION:
BOISE, IDAHO

DATE:
05/13/2016

PROJECT NO.:531-322

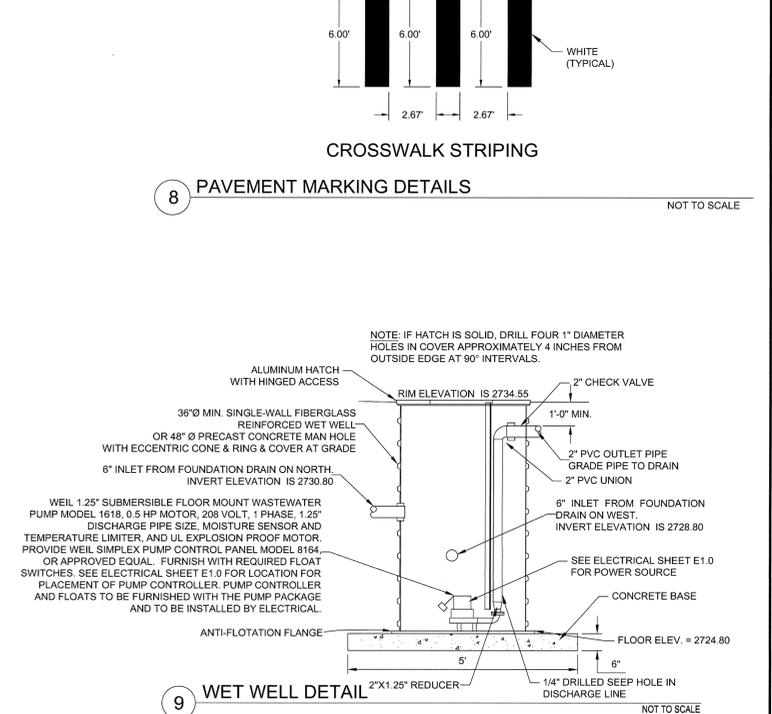
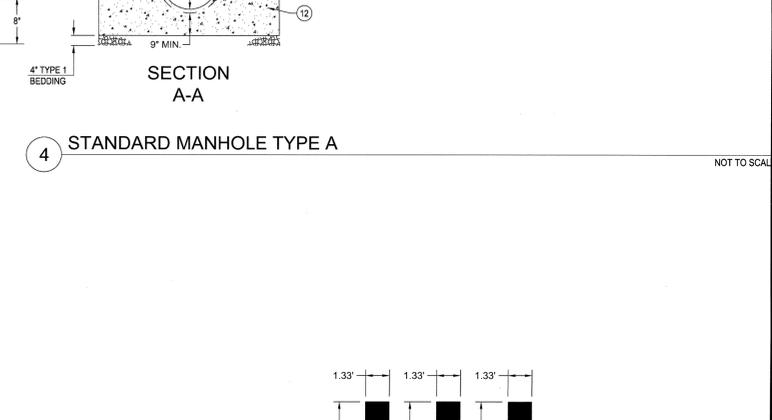
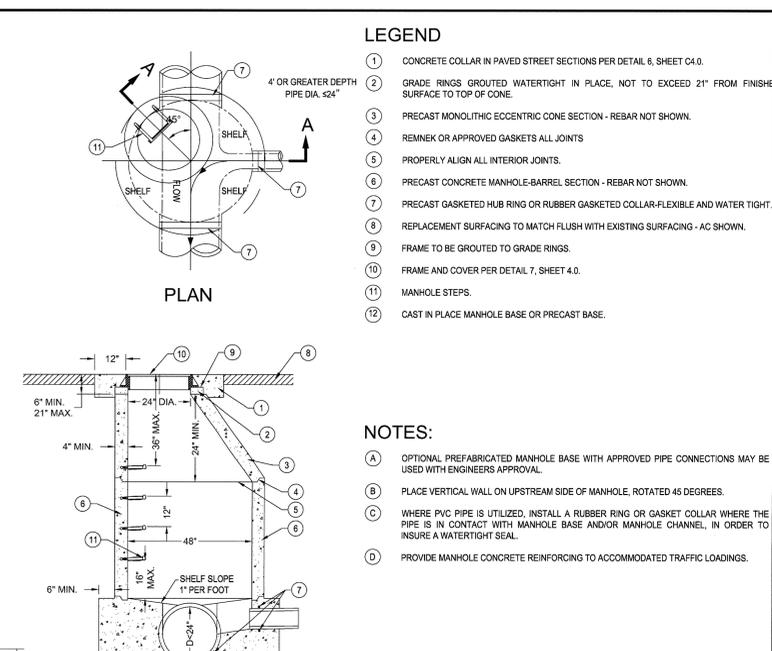
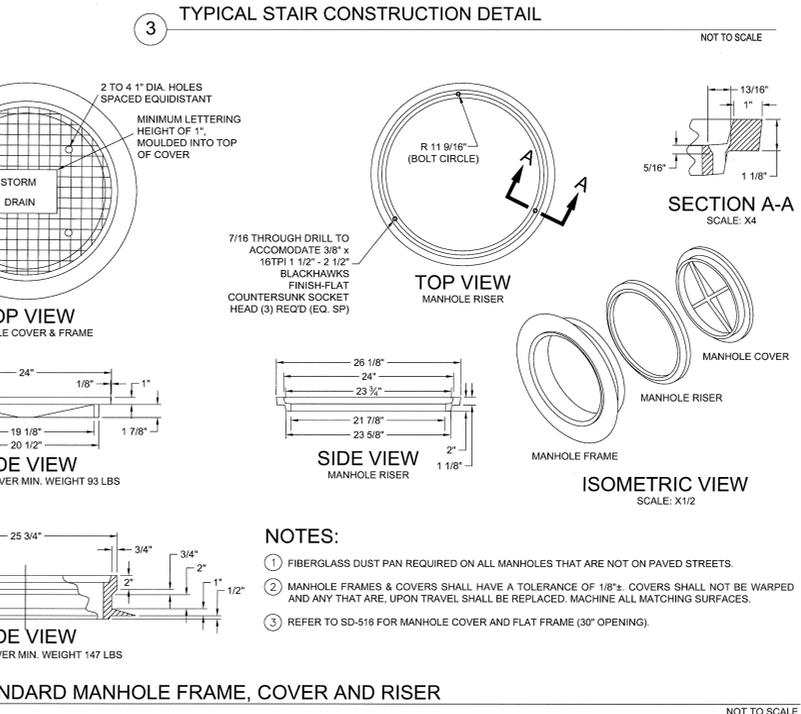
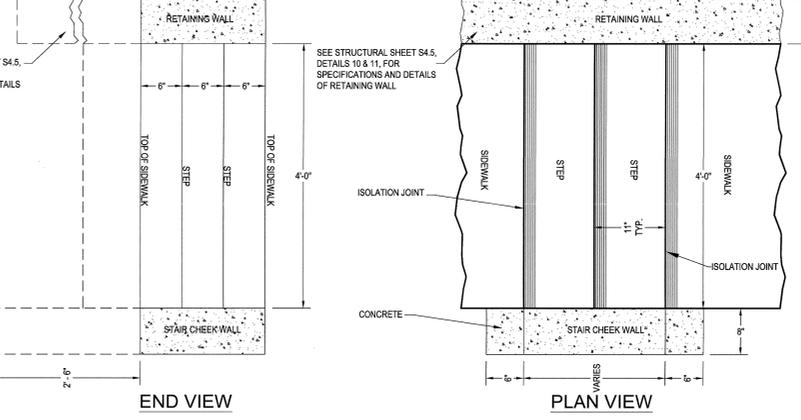
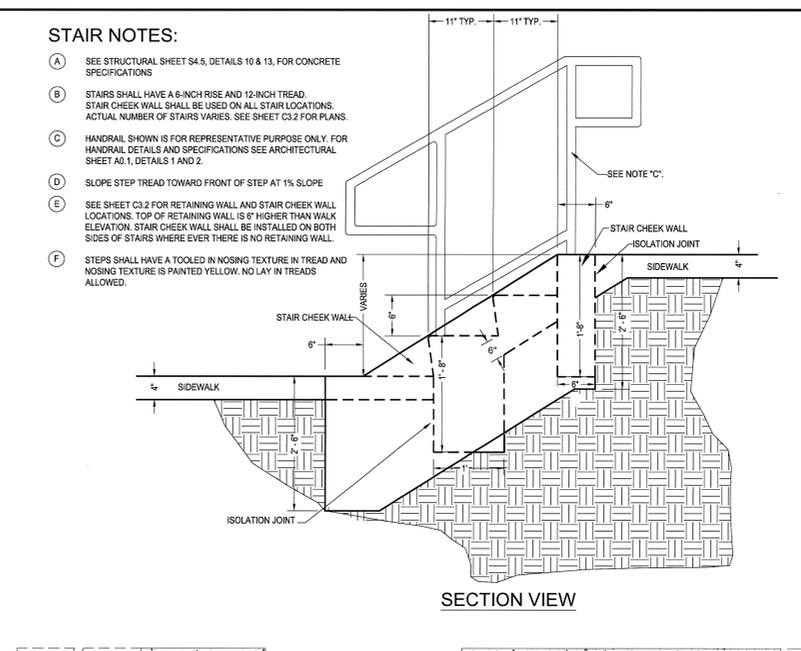
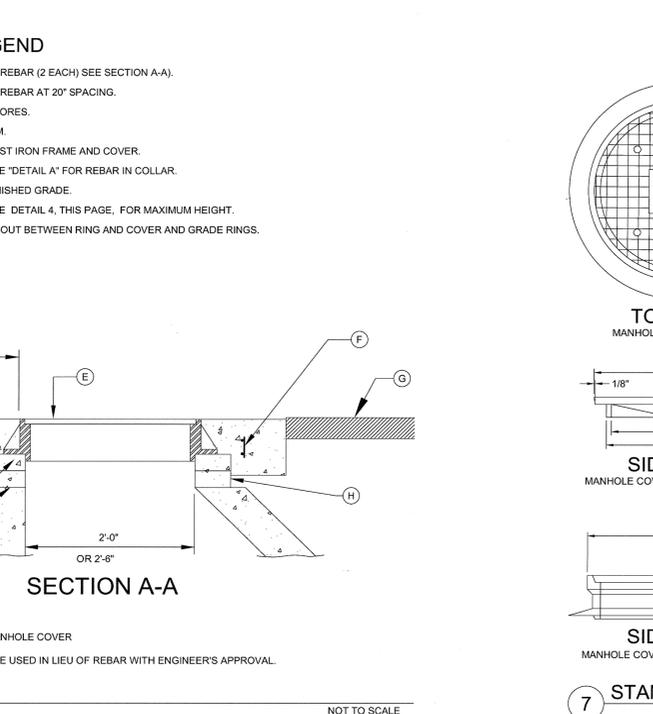
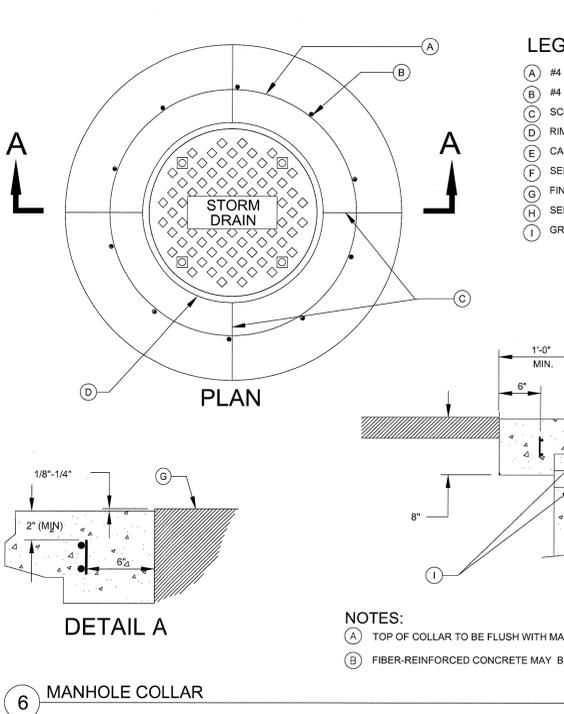
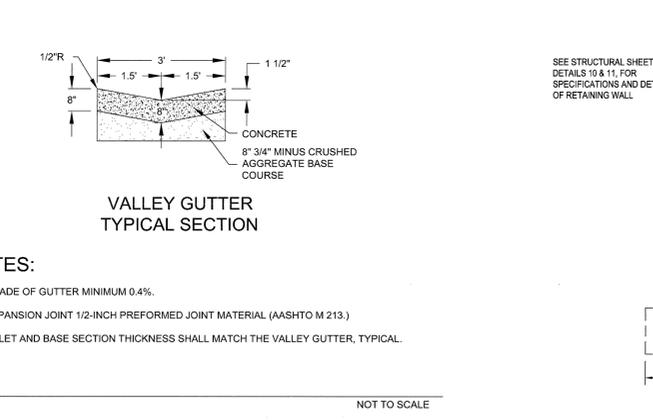
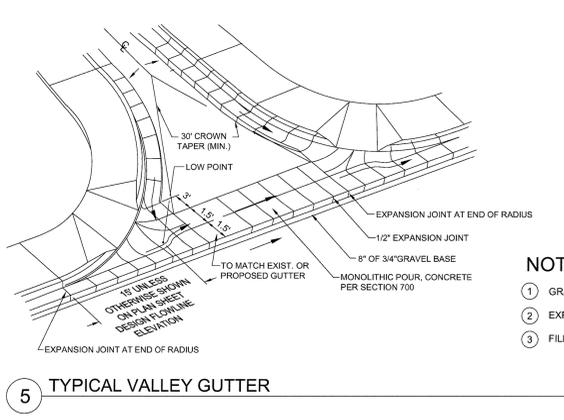
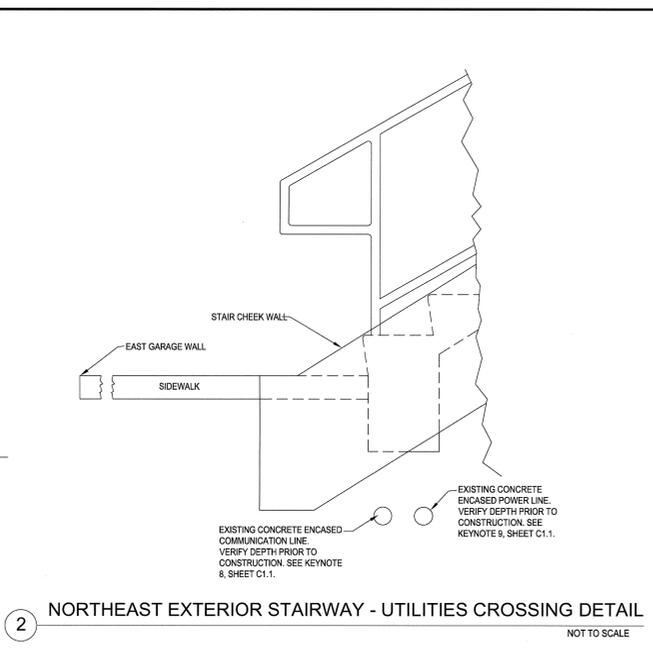
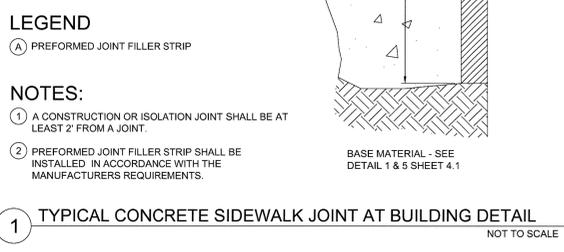
DRAWING NO.:C3.3

DWG 12 OF 126

FOR CONSTRUCTION

DEPARTMENT OF VETERANS AFFAIRS

THREE INCHES = ONE FOOT
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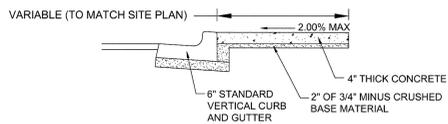


- LEGEND**
- (1) CONCRETE COLLAR IN PAVED STREET SECTIONS PER DETAIL 6, SHEET C4.0.
 - (2) GRADE RINGS GROUTED WATERTIGHT IN PLACE. NOT TO EXCEED 21" FROM FINISHED SURFACE TO TOP OF CONE.
 - (3) PRECAST MONOLITHIC ECCENTRIC CONE SECTION - REBAR NOT SHOWN.
 - (4) REMNEK OR APPROVED GASKETS ALL JOINTS.
 - (5) PROPERLY ALIGN ALL INTERIOR JOINTS.
 - (6) PRECAST CONCRETE MANHOLE-BARREL SECTION - REBAR NOT SHOWN.
 - (7) PRECAST GASKETED HUB RING OR RUBBER GASKETED COLLAR-FLEXIBLE AND WATER TIGHT.
 - (8) REPLACEMENT SURFACING TO MATCH FLUSH WITH EXISTING SURFACING - AC SHOWN.
 - (9) FRAME TO BE GROUTED TO GRADE RINGS.
 - (10) FRAME AND COVER PER DETAIL 7, SHEET 4.0.
 - (11) MANHOLE STEPS.
 - (12) CAST IN PLACE MANHOLE BASE OR PRECAST BASE.

- NOTES:**
- (A) OPTIONAL PREFABRICATED MANHOLE BASE WITH APPROVED PIPE CONNECTIONS MAY BE USED WITH ENGINEERS APPROVAL.
 - (B) PLACE VERTICAL WALL ON UPSTREAM SIDE OF MANHOLE, ROTATED 45 DEGREES.
 - (C) WHERE PVC PIPE IS UTILIZED, INSTALL A RUBBER RING OR GASKET COLLAR WHERE THE PIPE IS IN CONTACT WITH MANHOLE BASE AND/OR MANHOLE CHANNEL, IN ORDER TO INSURE A WATERTIGHT SEAL.
 - (D) PROVIDE MANHOLE CONCRETE REINFORCING TO ACCOMMODATED TRAFFIC LOADINGS.

CONSTRUCTION DETAILS

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		XREF FILE NAME: xVAbord.dwg	APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE	BUILDING NUMBER: 88 & 125	CHECKED: JDC	DRAWN: CAA	PROJECT NO.: 531-322
		APPROVED: MEDICAL CENTER DIRECTOR	LOCATION: BOISE, IDAHO	DRAWING NO.: C4.0	DWG: 13 OF 126	DEPARTMENT OF VETERANS AFFAIRS	
		FOR CONSTRUCTION					

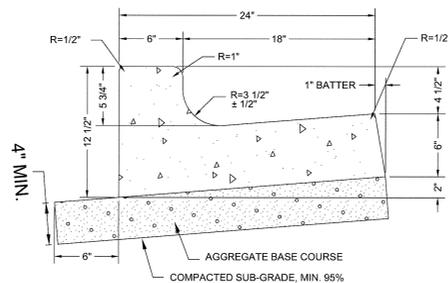


NOTES:

- 1 BASE TO BE COMPACTED TO EXCEED 95% OF STANDARD DENSITY.
- 2 SLOPE SIDEWALK AS SHOWN ON PLANS, SLOPE NOT TO EXCEED 1/4" PER FOOT (0.02 FT/FT) UNLESS OTHERWISE SPECIFIED ON PLANS.
- 3 SCORE AT INTERVALS TO MATCH WIDTH OF WALK NOT TO EXCEED 5 FEET SPACING.
- 4 1/2" TRANSVERSE PERFORMED BITUMINOUS JOINTS AT THE TERMINUS POINTS FOR CURVE AND WHERE SIDEWALK IS PLACED BETWEEN TWO PERMANENT FOUNDATIONS, PLACE 1/2" EXPANSION JOINT MATERIAL ALONG THE BACK OF THE WALK THE FULL LENGTH.
- 5 CONCRETE SHALL BE REINFORCED WITH 6X6 W1.41.4 WWM SET 2" FROM TOP OF CONCRETE.

1 TYPICAL CONCRETE SIDEWALK WITH ATTACHED CURB AND GUTTER

NOT TO SCALE

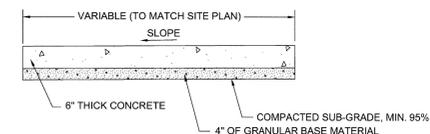


NOTES:

- 1 GRADE AND ALIGNMENT TO BE ESTABLISHED OR APPROVED BY THE ENGINEER AND THE PUBLIC AGENCY HAVING JURISDICTION.
- 2 BASE: 4-INCH COMPACTED DEPTH OF 3/4-INCH MINUS CRUSHED AGGREGATE BASE COURSE, PLACE AS SPECIFIED AND PAID UNDER SECTION-802 ISPW, COMPACTED TO EXCEED 95% OF STANDARD PROCTOR.
- 3 1/2-INCH PREFORMED EXPANSION JOINT MATERIAL (AASHTO M 213) AT TERMINAL POINTS OF RADII.
- 4 CONTINUOUS PLACEMENT PREFERRED, SCORE INTERVALS 10-FEET MAXIMUM SPACING (8-FEET WISIDEWALK).

2 TYPICAL CONCRETE 6" VERTICAL CURB AND GUTTER

NOT TO SCALE

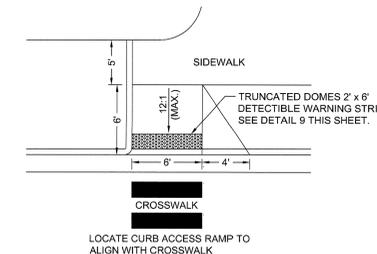


NOTES:

- 1 GRANULAR BASE MATERIAL TO BE COMPACTED TO EXCEED 95% OF STANDARD DENSITY.
- 2 CONTROL JOINTS SHALL BE A MAXIMUM 12' ON CENTER.
- 3 CONCRETE SHALL BE REINFORCED WITH 6X6 W1.41.4 WWM SET 4" FROM TOP OF CONCRETE.

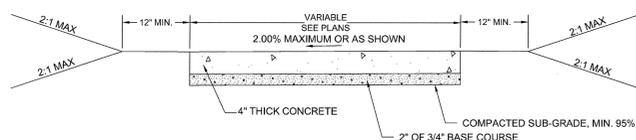
3 TYPICAL CONCRETE PAD SECTION

NOT TO SCALE



4 CURB ACCESS RAMP "A" DETAIL

NOT TO SCALE

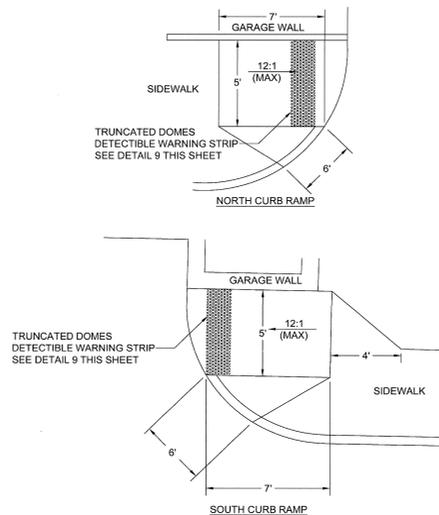


NOTES:

- A BASE TO BE COMPACTED TO EXCEED 95% OF STANDARD DENSITY.
- B SLOPE OF SIDEWALK NOT TO EXCEED 1/4" PER FOOT (0.02 FT/FT) UNLESS OTHERWISE SPECIFIED ON PLANS.
- C SCORE AT INTERVALS TO MATCH WIDTH OF WALK NOT TO EXCEED 5 FEET SPACING.
- D CONTROL JOINTS SHALL BE A MAXIMUM 12' ON CENTER.
- E CONCRETE SHALL BE REINFORCED WITH 6X6 W1.41.4 WWM SET 2" FROM TOP OF CONCRETE.

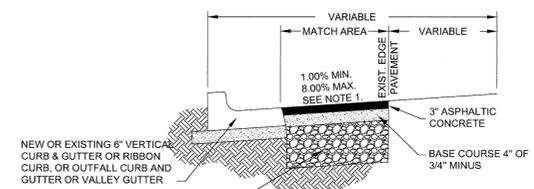
5 TYPICAL SIDEWALK SECTION WITH NO CURB OR GUTTER

NOT TO SCALE



6 CURB ACCESS RAMP "B" DETAIL

NOT TO SCALE

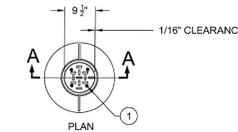


NOTES:

- 1 ASPHALT MATCH SHALL FOLLOW EXISTING ASPHALT SLOPE OF ROADWAY AND SHALL HAVE A MINIMUM CROSS SLOPE OF 1% WITH 2% RECOMMENDED. CROSS SLOPE OF 4.0% MAXIMUM IN TRAFFIC LANE WITH 8.0% MAXIMUM IN PARKING AREA.
- 2 EXISTING ASPHALT SHALL BE CUT TO A NEAT STRAIGHT LINE PARALLEL AND/OR PERPENDICULAR TO THE CENTERLINE OF THE STREET AND SEALED WITH AN ASPHALT TACK COAT BEFORE PAVING.

7 ASPHALT MATCH SECTION

NOT TO SCALE

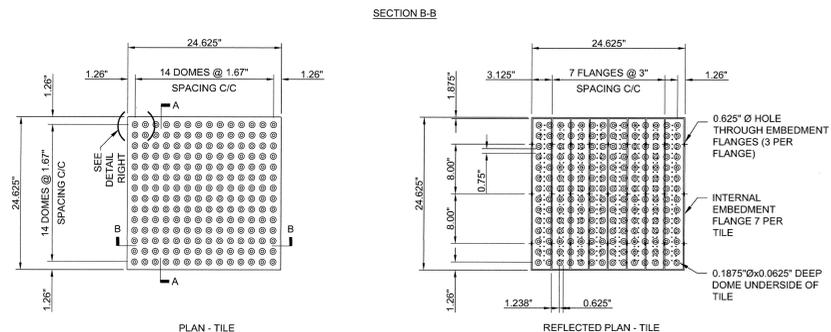
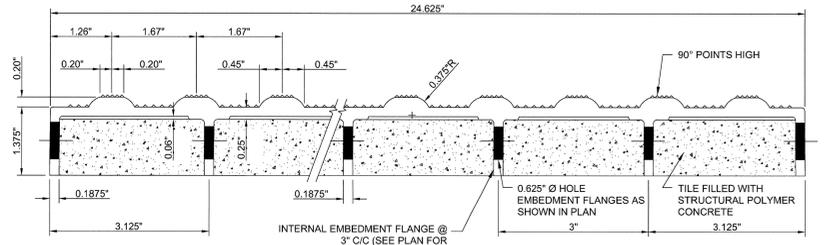
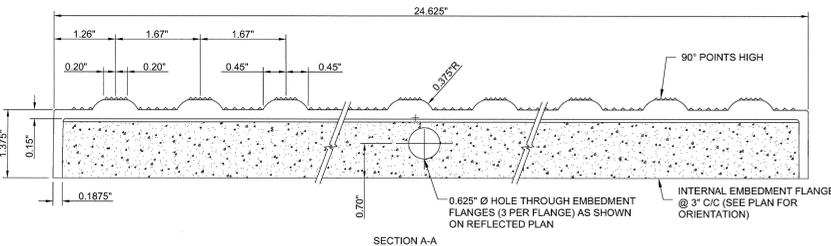


LEGEND

- 1 4-1" DIA. HOLES ON 3 1/2" RADIUS.
- 2 12" DIA. X 1'-0" PVC, DIP OR CP.
- 3 FIBER JOINT MATERIAL.
- 4 8" PVC ASTM 3034.
- 5 45° BENDS.
- 6 "Y" FITTINGS.
- 7 EXISTING OR NEW PIPE - GRADE AT 0.4% MINIMUM.
- 8 TYPE 1 BEDDING MATERIAL.
- 9 MISSION COUPLER OR APPROVED SUB.
- 10 UNDISTURBED MATERIAL.

8 STANDARD 8" CLEAN-OUT DETAIL

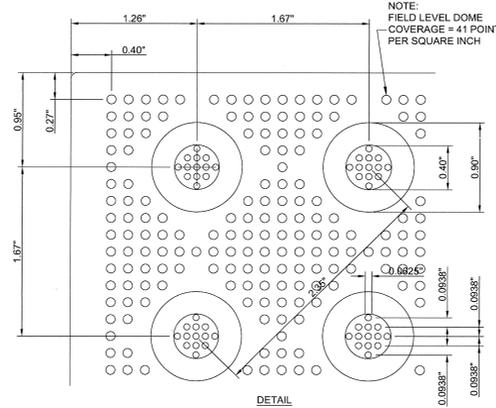
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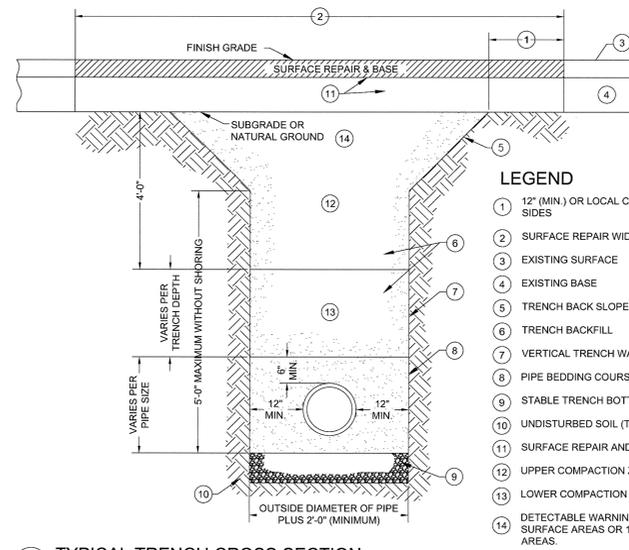
9 TRUNCATED DOME TACTILE - WARNING STRIP

DETECTABLE WARNING NOTES

THE DETECTABLE WARNING STRIP MUST COVER THE ENTIRE WIDTH OF THE RAMP OPENING, EXCLUDING THE WINGS. ALL DOMES MUST BE ALIGNED IN THE DIRECTION OF TRAVEL. ONE CORNER OF THE LEADING EDGE OF THE DETECTABLE WARNING MAY BE MORE THAN 5 FEET FROM THE BACK OF THE CURB. WHEN LOCATED ALONG A CURB RETURN, THE LEADING EDGE OF THE DETECTABLE WARNING MAY BE DEFINED BY THE CHORD DRAWN BETWEEN THE LEADING EDGES OF THE RAMP OPENING.

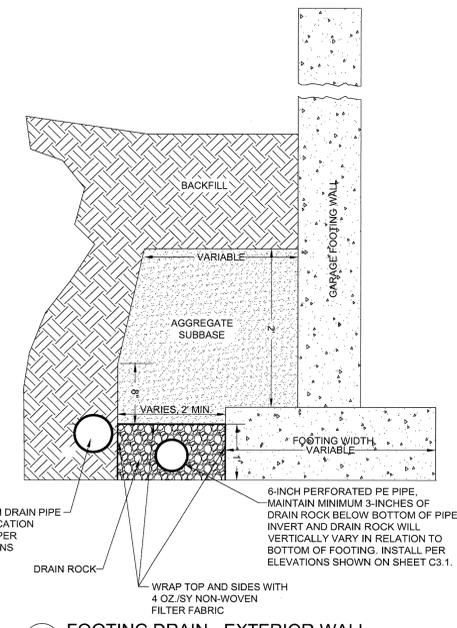


CONSTRUCTION DETAILS



10 TYPICAL TRENCH CROSS SECTION

NOT TO SCALE



11 FOOTING DRAIN - EXTERIOR WALL

NOT TO SCALE

REVISIONS	DATE

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DRAWING TITLE
CONSTRUCTION DETAILS

APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE

APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE
VAMC PARKING GARAGE VOLUME A

BUILDING NUMBER
88 & 125

CHECKED
JDC

DRAWN
CAA

LOCATION
BOISE, IDAHO

DATE
05/13/2016

PROJECT NO.
531-322

DRAWING NO.
C4.1

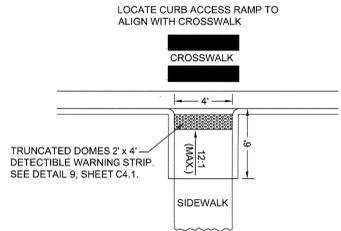
DWG
14 OF 126

FOR CONSTRUCTION

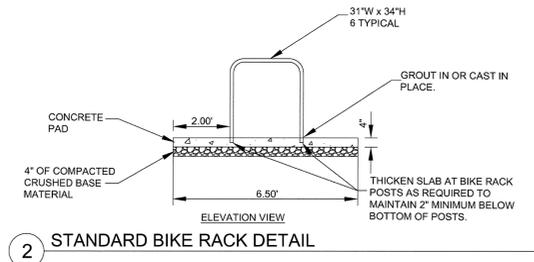
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DEPARTMENT OF VETERANS AFFAIRS

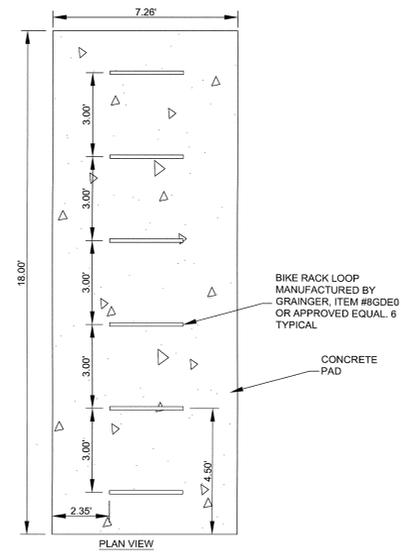
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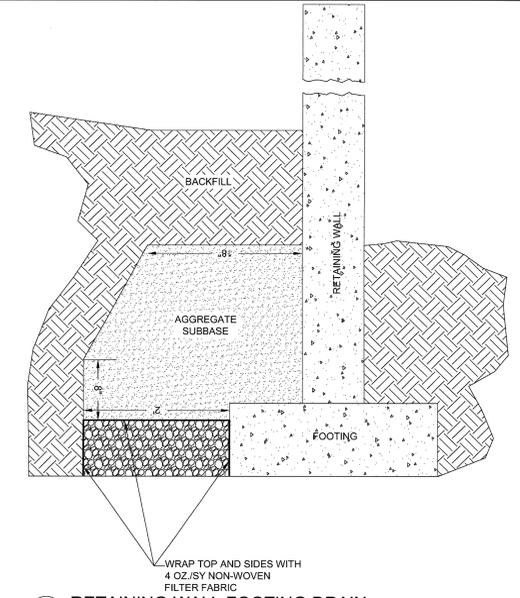
1 CURB ACCESS RAMP "C" DETAIL
 NOT TO SCALE



2 STANDARD BIKE RACK DETAIL
 NOT TO SCALE

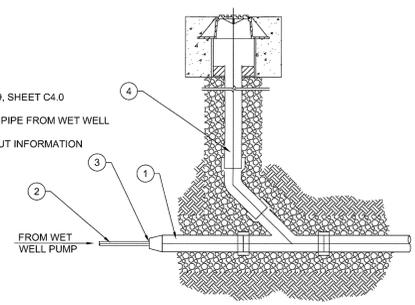


PLAN VIEW
 NOT TO SCALE

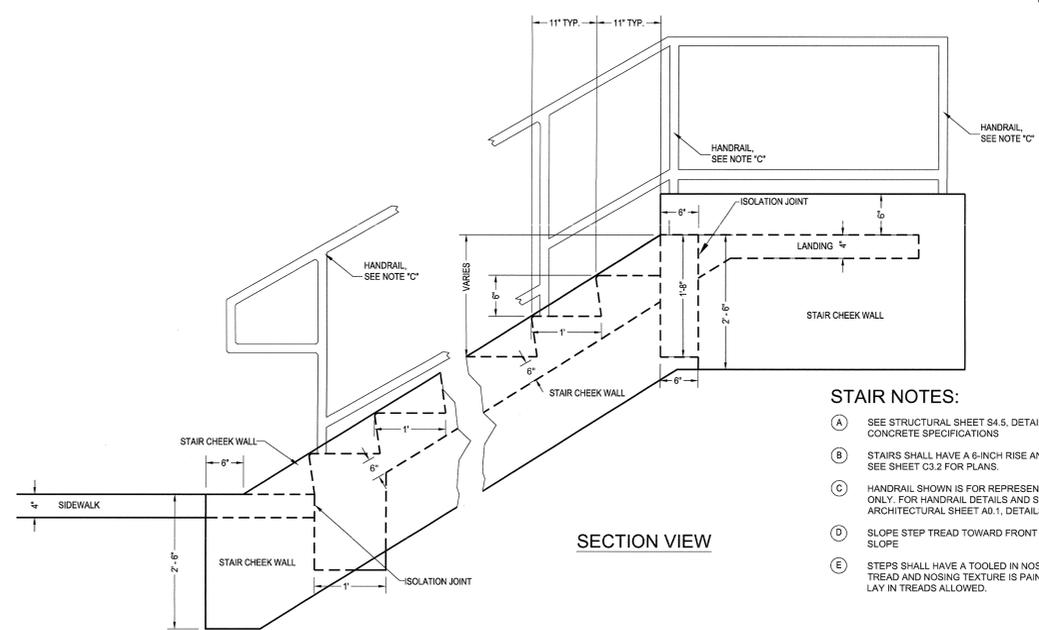


3 RETAINING WALL FOOTING DRAIN
 NOT TO SCALE

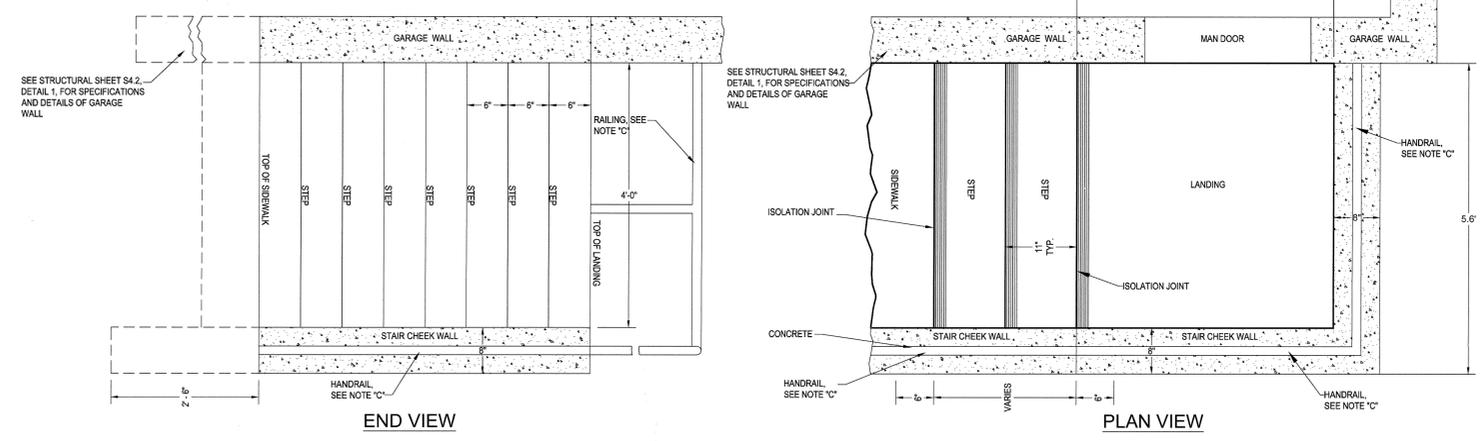
- LEGEND**
- 1 8" PVC DRAIN PIPE
 - 2 2" PIPE FROM WET WELL, SEE DETAIL 9, SHEET C4.0
 - 3 REDUCE 8" TO 2" AND CONNECT TO 2" PIPE FROM WET WELL
 - 4 SEE DETAIL 8, SHEET 4.1 FOR CLEANOUT INFORMATION



4 2" PIPE TO CLEAN-OUT DETAIL
 NOT TO SCALE



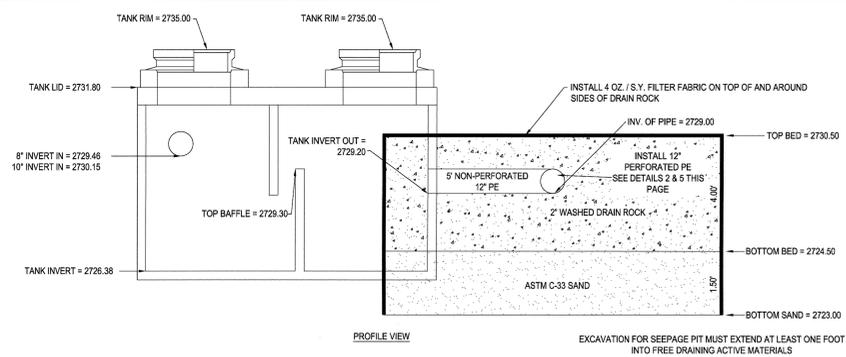
- STAIR NOTES:**
- A SEE STRUCTURAL SHEET S4.5, DETAILS 10 & 13, FOR CONCRETE SPECIFICATIONS
 - B STAIRS SHALL HAVE A 6-INCH RISE AND 12-INCH TREAD. SEE SHEET C3.2 FOR PLANS.
 - C HANDRAIL SHOWN IS FOR REPRESENTATIVE PURPOSE ONLY. FOR HANDRAIL DETAILS AND SPECIFICATIONS SEE ARCHITECTURAL SHEET A0.1, DETAILS 4 AND 5.
 - D SLOPE STEP TREAD TOWARD FRONT OF STEP AT 1% SLOPE
 - E STEPS SHALL HAVE A TOOLED IN NOSING TEXTURE IN TREAD AND NOSING TEXTURE IS PAINTED YELLOW. NO LAY IN TREADS ALLOWED.



5 STAIR & LANDING AT SOUTHWEST MAN DOOR CONSTRUCTION DETAIL
 NOT TO SCALE

CONSTRUCTION DETAILS

<p>REVISIONS</p> <p>DATE</p>	 <p>B & A Engineers, Inc. Consulting Engineers, Surveyors & Planners 5505 West Franklin Road Boise, ID 83705 Voice: 208.343.3381 Fax: 208.342.5792 Web: http://www.baengineers.com</p>	 <p>ZGA ARCHITECTS & PLANNERS, CHARTERED</p> <p>408 E. Parkcenter Blvd., Suite 205 Boise, Idaho 83706 t: (208) 345.8872 f: (208) 343.7162 www.zga.com</p>	 <p>CAD FILE NAME: 531-322_C4.2_A.dwg XREF FILE NAME: xVAbord.dwg</p>	<p>DRAWING TITLE CONSTRUCTION DETAILS</p> <p>APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE</p> <p>APPROVED: MEDICAL CENTER DIRECTOR</p>	<p>PROJECT TITLE VAMC PARKING GARAGE VOLUME A</p> <p>BUILDING NUMBER 88 & 125</p> <p>CHECKED JDC</p> <p>DRAWN CAA</p> <p>LOCATION BOISE, IDAHO</p>	<p>DATE 05/13/2016</p> <p>PROJECT NO. 531-322</p> <p>DRAWING NO. C4.2</p> <p>DWG 15 OF 126</p>	<p>FOR CONSTRUCTION</p>  <p>DEPARTMENT OF VETERANS AFFAIRS</p>
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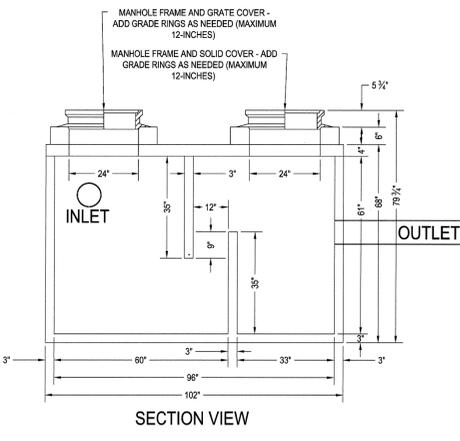
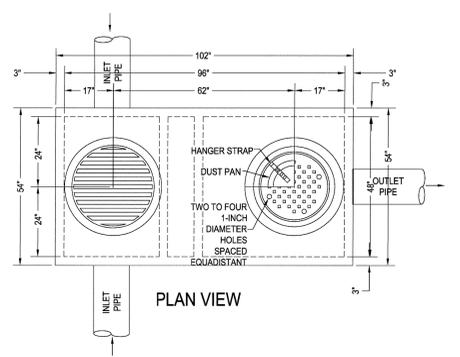


- NOTES:**
- REFER TO SHEET C3.3 FOR MORE INFORMATION.
 - IF BEDROCK OR SEASONAL HIGH GROUNDWATER IS ENCOUNTERED (HIGHER THAN INDICATED ON THE PLANS), THEN THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER FOR POSSIBLE REDESIGN OF SEEPAGE BEDS.
 - SEE DETAIL 2, THIS PAGE, FOR SEEPAGE BED DIMENSIONS.
 - SEASONAL HIGH GROUNDWATER WAS DETERMINED FROM A GEOTECHNICAL ENGINEERING EVALUATION REPORT BY MTI DATED 25-MARCH-2015.

1 SEEPAGE PIT DETAIL

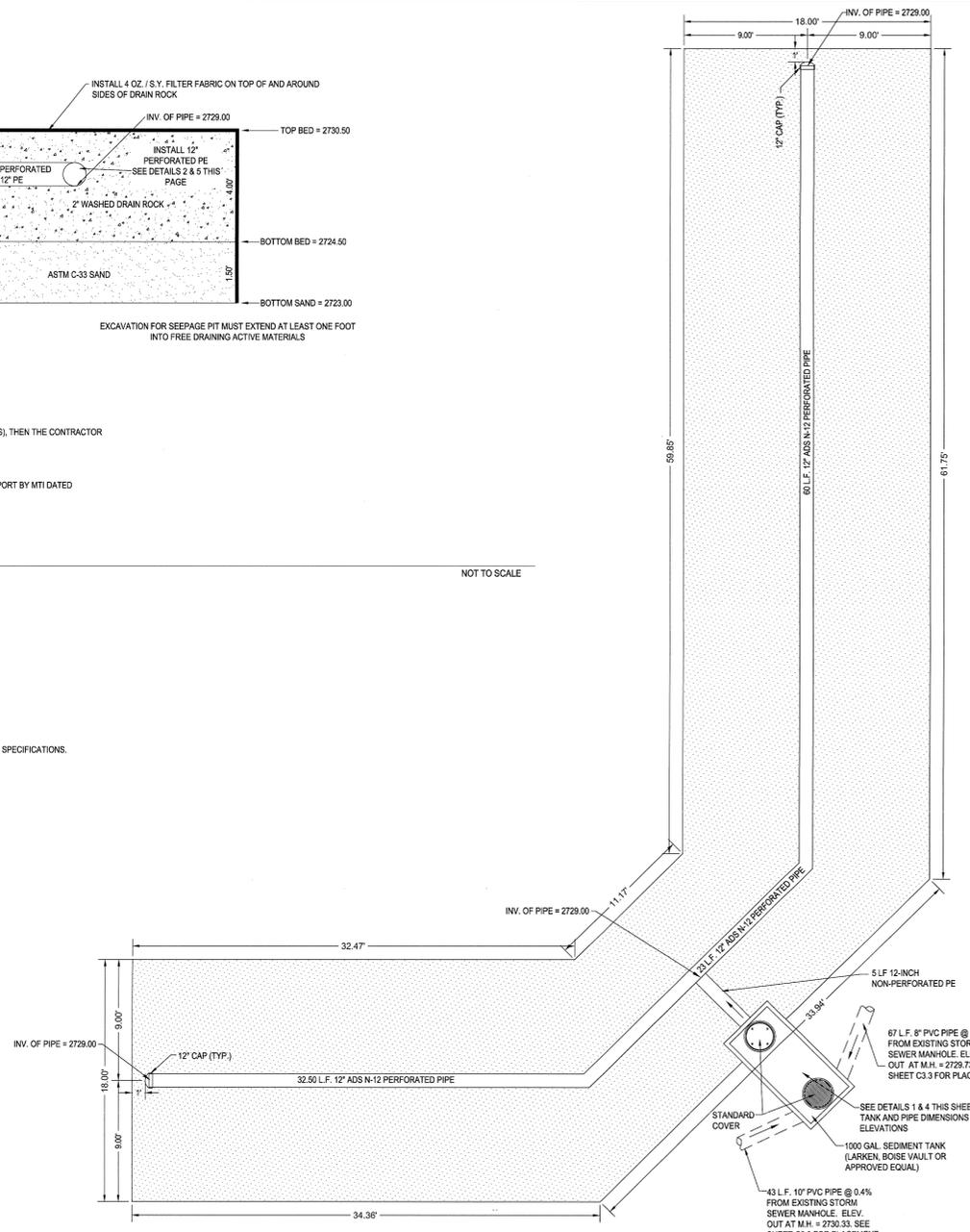
NOT TO SCALE

- NOTES:**
- SEE DETAILS THIS SHEET FOR PIPE SIZES, ELEVATIONS AND LOCATIONS
 - ALL DIMENSIONS SHOWN ARE FOR REFERENCE PURPOSES. TANK SHALL BE CONSTRUCTED TO MANUFACTURERS SPECIFICATIONS.
 - 1000 GALLON SEDIMENT TANK SHALL BE DESIGNED TO SUPPORT AN HS-25 TRAFFIC LOAD.
 - SEDIMENT TANK SHALL BE LAR-KEN 1000 GALLON OR APPROVED EQUAL.
 - A MAXIMUM OF 12-INCHES OF GRADE RINGS MAY BE USED.



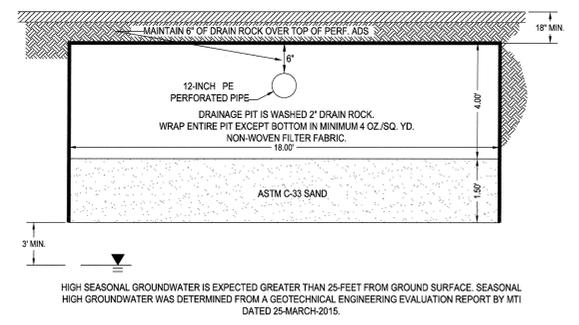
4 SEDIMENT TANK CONNECTION DETAIL

NOT TO SCALE



2 SEEPAGE PIT DIMENSIONS DETAIL

NOT TO SCALE

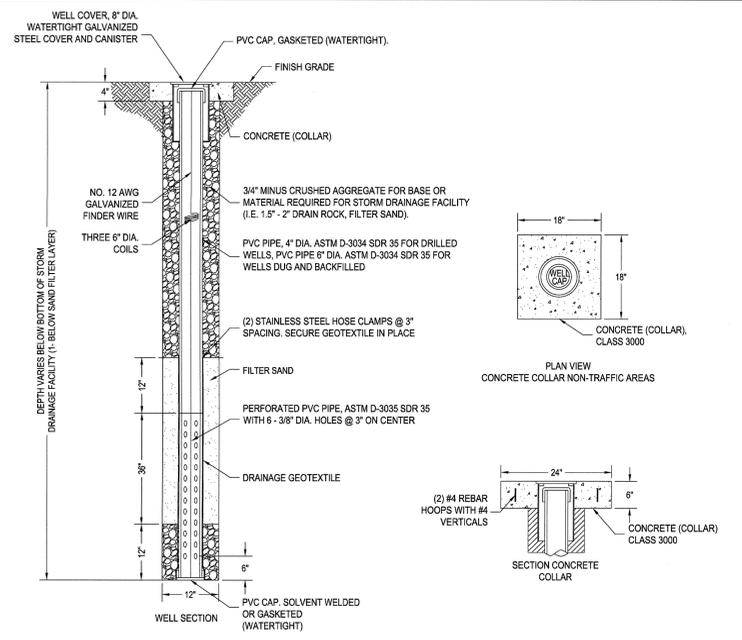


5 SEEPAGE PIT - SECTION

NOT TO SCALE

HIGH SEASONAL GROUNDWATER IS EXPECTED GREATER THAN 25-FEET FROM GROUND SURFACE. SEASONAL HIGH GROUNDWATER WAS DETERMINED FROM A GEOTECHNICAL ENGINEERING EVALUATION REPORT BY MTI DATED 25-MARCH-2015.

CONSTRUCTION DETAILS



- NOTES:**
- WELLS ARE FOR OBSERVATION OF GROUNDWATER LEVEL NEAR STORM DRAINAGE FACILITIES.
 - LOCATION OF GROUNDWATER OBSERVATION WELLS SHALL BE APPROVED BY ENGINEER.

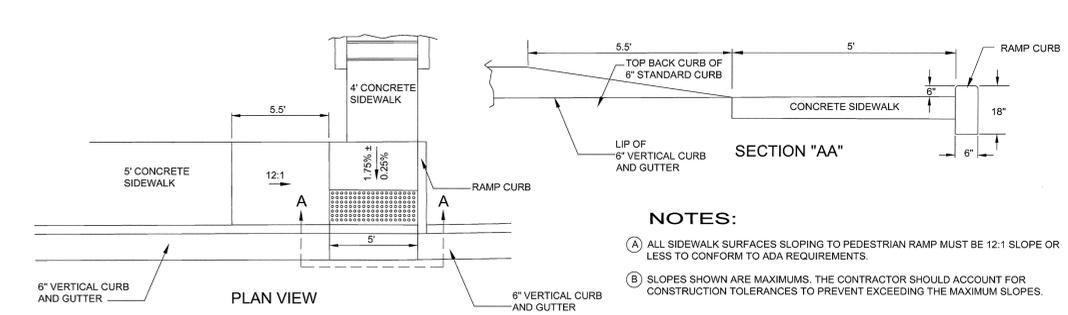
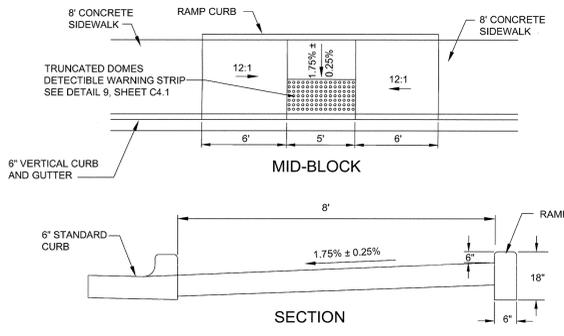
3 GROUND WATER OBSERVATION WELL (MONITORING WELL)

NOT TO SCALE

- NOTES:**
- THIS TYPE OF RAMP MAY BE USED FOR SIDEWALKS IN AREAS THAT DO NOT HAVE ADEQUATE SPACE FOR LANDINGS REQUIRED TO MEET ADA.
 - THROAT OF RAMP WILL BE 1.75% ± 0.25% PER ADA REQUIREMENTS.
 - ALL SIDEWALK SURFACES SLOPING TO PEDESTRIAN RAMP MUST BE 12:1 SLOPE OR LESS TO CONFORM TO ADA REQUIREMENTS.
 - CONCRETE CURB WILL BE PLACED AT THE BACK OF THE RAMP AND ADJOINING SLOPING SIDEWALK. HEIGHT OF CURB WILL MATCH THE ADJACENT GRADE. CURB WILL BE 6 INCHES HIGH AT THE TOP OF THE SLOPING SIDEWALK.
 - SLOPES SHOWN ARE MAXIMUMS. THE CONTRACTOR SHOULD ACCOUNT FOR CONSTRUCTION TOLERANCES TO PREVENT EXCEEDING THE MAXIMUM SLOPES.

6 PEDESTRIAN RAMP WITH NO LANDING

NOT TO SCALE



- NOTES:**
- ALL SIDEWALK SURFACES SLOPING TO PEDESTRIAN RAMP MUST BE 12:1 SLOPE OR LESS TO CONFORM TO ADA REQUIREMENTS.
 - SLOPES SHOWN ARE MAXIMUMS. THE CONTRACTOR SHOULD ACCOUNT FOR CONSTRUCTION TOLERANCES TO PREVENT EXCEEDING THE MAXIMUM SLOPES.

7 PEDESTRIAN RAMP WITH NO LANDING

NOT TO SCALE

REVISIONS	DATE

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CAD FILE NAME:
531-322_C4.3_A.dwg
XREF FILE NAME:
xVAbord.dwg

DRAWING TITLE
CONSTRUCTION DETAILS
APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE
APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE
VAMC PARKING GARAGE VOLUME A
BUILDING NUMBER
88 & 125
LOCATION
BOISE, IDAHO

DATE
05/13/2016
PROJECT NO.
531-322
DRAWING NO.
C4.3
DWG 16 OF 126

FOR CONSTRUCTION

W

DEPARTMENT OF VETERANS AFFAIRS