

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

A

B

C

D

E

F

ABCAGGREGATE BASE COURSE
ABVABOVE
ACASPHALTIC CONCRETE
ACIAMERICAN CONCRETE INSTITUTE
ACPASPHALTIC CONCRETE PAVING
ACTACOUSTICAL CEILING TILE
ADAAmericans with Disabilities Act
AFFABOVE FINISHED FLOOR
AHJAUTHORITY HAVING JURISDICTION
AISCAMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISIAMERICAN IRON & STEEL INSTITUTE
ALUMALUMINUM
ALMALARM
ALTALTERNATE
ANODANODIZED
APPROXAPPROXIMATE
ARCHARCHITECT(URAL)
ASMEAMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTMAMERICAN SOCIETY FOR TESTING AND MATERIALS
AWGAMERICAN WIRE GAGE
AWSAMERICAN WELDING SOCIETY
AWWAAmerican Water Works Association

BOTBOTTOM
BLBUILDING LINE
BLDGBUILDING
BMPBEST MANAGEMENT PRACTICE
BOTBOTTOM
BRKBRICK
BURBUILT UP ROOFING

CABCABINET
CFCUBIC FOOT
CFMCUBIC FEET PER MINUTE
CFSCUBIC FEET PER SECOND
CGCORNER GUARD
CICAST IRON
CIPC铸 IRON PIPE
CJCONTROL JOINT
CKTCIRCUIT
CLCENTERLINE
CLOSCLOSET
CLGCCILING
CLRCLEAR(ANCE)
CMPCORRUGATED METAL PIPE
CMUCONCRETE MASONRY UNIT
CNDCONDUIT
COCLEANOUT
COLCOLUMN
CONCCONCRETE
CORRCORRIDOR
CRSCOURSES
CTRCENTER
CNTRCOUNTER
CU INCUBIC INCH
CU YDCUBIC YARD
CWAConcrete Wash-Out Area
CYCUBIC YARD

DDEMOPENNY (NAILS, ETC.)
DETDEMOLITION
DIETDETAIL
DIAMDIAMETER
DPDAMP PROOFING
DPRDAMPER
DRDOOR
DSPDRY STANDPIPE
DWGDRAWING

EAEAST
EAEACH
ELEVATION
EJEEXPANSION JOINT
ELEC(ELECTRIC(AL))
EMEREMERGENCY
EPELECTRICAL PANEL
EQUEQUAL
EQUIPEQUIPMENT
EWC(ELECTRIC) WATER COOLER
EXISTEXISTING
EXHEXHAUST
EXPPOSED
EXTEXTERIOR

FAFIRE ALARM
FBFACE BRICK
FCFOOT-CANDLE
FD FLOOR DRAIN
FEFIRE EXTINGUISHER
FECFIRE EXTINGUISHER CABINET
FFE FURNITURE, FIXTURES, AND EQUIPMENT
FGFIXED GLASS
FIN FLFINISHED FLOOR
FIN FL ELFINISHED FLOOR ELEVATION
FIX FUTURE
FLFLOOR
FHFIRE HYDRANT
FLUORFLUORESCENT
FNDFOUNDATION
FOCFACE OF CONCRETE / CURB
FOFFACE OF FINISH
FOMFACE OF MASONRY
FOSFACE OF STUDS
FTFOOT / FEET
FTGFOOTING
FURRFURRED(ING)

GAGAGE, GAUGE
GALGALVANIZED(D)
GLGLASS, GLAZING
GWBGYPSUM BOARD
GRNDGROUND
GRTGROUT
GALVGALVANIZED

HBHOSE BIB

HNDCHANDICAP
HDWHARDWARE
HJTHEAD JOINT
HMHOLLOW METAL
HORZHORIZONTAL
HPHORSE POWER / HIGH PRESSURE
HTHEIGHT
HVACHEATING, VENTILATION, AIR CONDITIONING

IDINSIDE DIAMETER
IESILLUMINATING ENGINEERING SOCIETY
ININCH ("")
INCINCORPORATED
INFOINFORMATION
INSULINSULATION/INSULATE(D)(ING)
INTINTERIOR
INVINVERT

JANJANITOR
JTJOINT

KKIP (1,000 LB.)

LABLABORATORY
LDRLADDER
LBPOUND
LAGLAG SCREW
LGLLENGTH / LONG
LTGLIGHTING
LVLLAMINATED VENEER LUMBER
LW CONCLIGHTWEIGHT CONCRETE

M METER(S)
MAXMAXIMUM
MECHMECHANIC(AL)
MEDMEDIUM
METMETAL
MFRMANUFACTURE(R)
MHMANHOLE
MINMINIMUM
MIRMIRROR
MISC MISCELLANEOUS
MMMILLIMETER
MOMASONRY OPENING
MUTCDMANUAL OF UNIFORM TRAFFIC CONTROL DEVICES

N NORTH
NICNOT IN CONTRACT
NOMNOMINAL
NTSNOT TO SCALE

OC ON CENTER
ODOUTSIDE DIAMETER
OFCOFFICE
OHOVERHEAD
OPNGOPENING
OPPOPPPOSITE
ORIGORIGINAL
OVHDOVERHEAD

PAPUBLIC ADDRESS
PCCPORTLAND CEMENT CONCRETE
PCFPOUNDS PER CUBIC FOOT
PLFPOUNDS PER LINEAL FOOT
PFNPRE-FINISHED
PHPHASE
PLPLATE
PLAMPPLASTIC LAMINATE
PLBGPLUMBING
PNLPANEL
POCPOINT OF CURVE
POIPOINT OF INTERSECTION
POTPOINT OF TANGENT
PRPAIR
PSFPOUNDS PER SQUARE FEET
PSIPOUNDS PER SQUARE INCH
PT CONCPPOST-TENSIONED CONCRETE
PVC POLYVINYL CHLORIDE
PVMTPAVEMENT

RADRADIUS
RBRUBBER BASE
RCPREINFORCED CONCRETE PIPE, REFLECTED CEILING PLAN
RDROOF DRAIN
REREFER TO, REFERENCE
REINREINFORCE(D)(ING)
RECPRECEPTACLE
REFREFERENCE
ROWRIGHT OF WAY
RRBREINFORCED ROCK BERM

S SOUTH
SAN SANITARY
SCSOLID CORE
SCHSCHEDULE
SDSTORM DRAIN
SECTSECTION
SEWSEWER
SHTSHEET
SIMSIMILAR
SPECSPECIFICATION
SQSQUARE
SSSANITARY SEWER
STMSTORM
STDSTANDARD
STLSTEEL
STRUCTSTRUCTURAL
SWBDSWITCHBOARD

T>ONGUE AND GROOVE
TELTELEPHONE
THKTHICK(NESS)
THRU THROUGH
TOBTOP OF BEAM
TOCTOP OF CONCRETE
TOMTOP OF MASONRY
TOSTOP OF STEEL/TOP OF SLAB
TOWTOP OF WALL
TYP TYPICAL

UCUNDERCUT

UGUNDERGROUND
ULUNDERWRITERS' LABORATORIES, INC.
UNO UNLESS NOTED OTHERWISE

VVOLT
VBRVAPOR BARRIER
VENTVENTILATE
VERTVERTICAL
VITVITREOUS
VSVERSUS
VCVERTICAL CURVE
VOLVOLUME
VPTVERTICAL POINT OF TANGENT
VPIVERTICAL POINT OF INTERSECTION
VPCVERTICAL POINT OF CURVATURE
VTCVEHICLE TRACING CONTROL

W WEST / WIDTH / WIDE / WATT
WWITH
WDWOOD
WHWATER HEATER
WDWWINDOW
WOWITHOUT
WTWEIGHT
WTRWATER
WWFWELDED WIRE FABRIC

XFMRTRANSFORMER
XPANCROSS PAN
XSSECTCROSS SECTION
XSTRXTRA STRONG

YDYARD
YRYEAR

EXISTING

LEGEND

PROPOSED

SDSTORM SEWER

SSSANITARY SEWER

WDOMESTIC WATER

GNATURAL GAS

ELECELECTRICAL

MINOR CONTOUR

MAJOR CONTOUR

FIRE HYDRANT

LIGHT POLE

HANDICAP PARKING

POWER POLE

VALVE

CONIFEROUS TREE

DECIDUOUS TREE

PUMP/ WELL HEAD

WATER METER

EROSION CONTROL BMP LEGEND

CWACONCRETE WASHOUT AREA

IPINLET PROTECTION

RRCRRB FOR CULVERT PROTECTION

STSSEDIMENT TRAP

SFSILT FENCE

SSASTABILIZED STAGING AREA

VTCVEHICLE TRACKING CONTROL

LOCLIMITS OF CONSTRUCTION

PLAN

TRUE

0' 4' 8' 16'

SCALE: 1/8" = 1'-0"

CONSULTANT:

CONSULTANT:

ARCHITECT/ENGINEERS:

11011 SOUTH PINES PEAK DRIVE #202
PARADISE, COLORADO 80131
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AES

Group, Inc.

Drawing Title
CIVIL ABBREVIATIONS AND LEGEND

Project Title
COMMUNITY LIVING CENTER

Project Number
442-12-357

Building Number
COWBOY

Location
CHEYENNE, WYOMING

Date
MARCH 2016

Checked

Drawn
RID

Dwg. of

C001

Office of
Construction
and Facilities
Management

Department of
Veterans Affairs

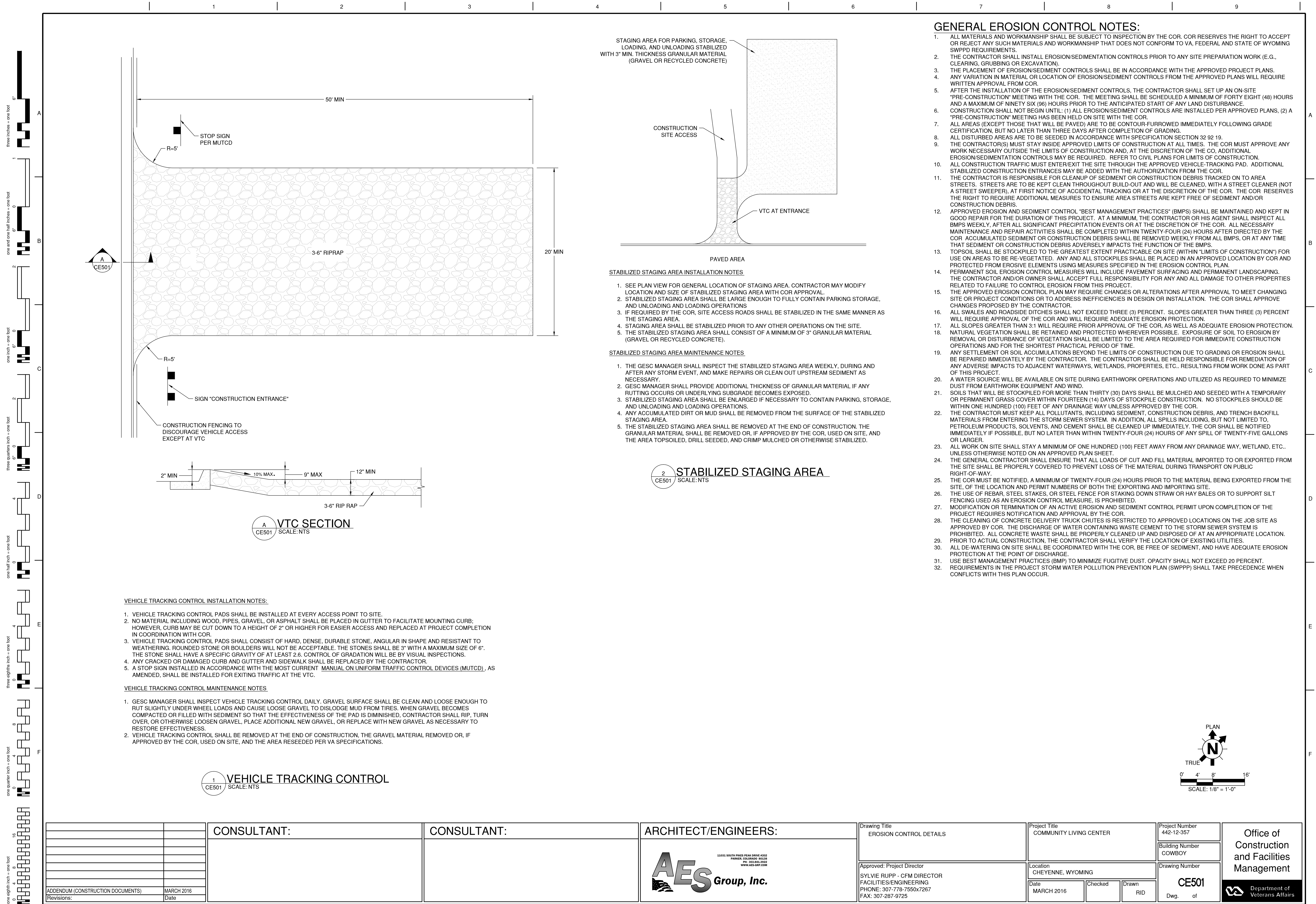
ADDENDUM (CONSTRUCTION DOCUMENTS)

MARCH 2016

Revisions:

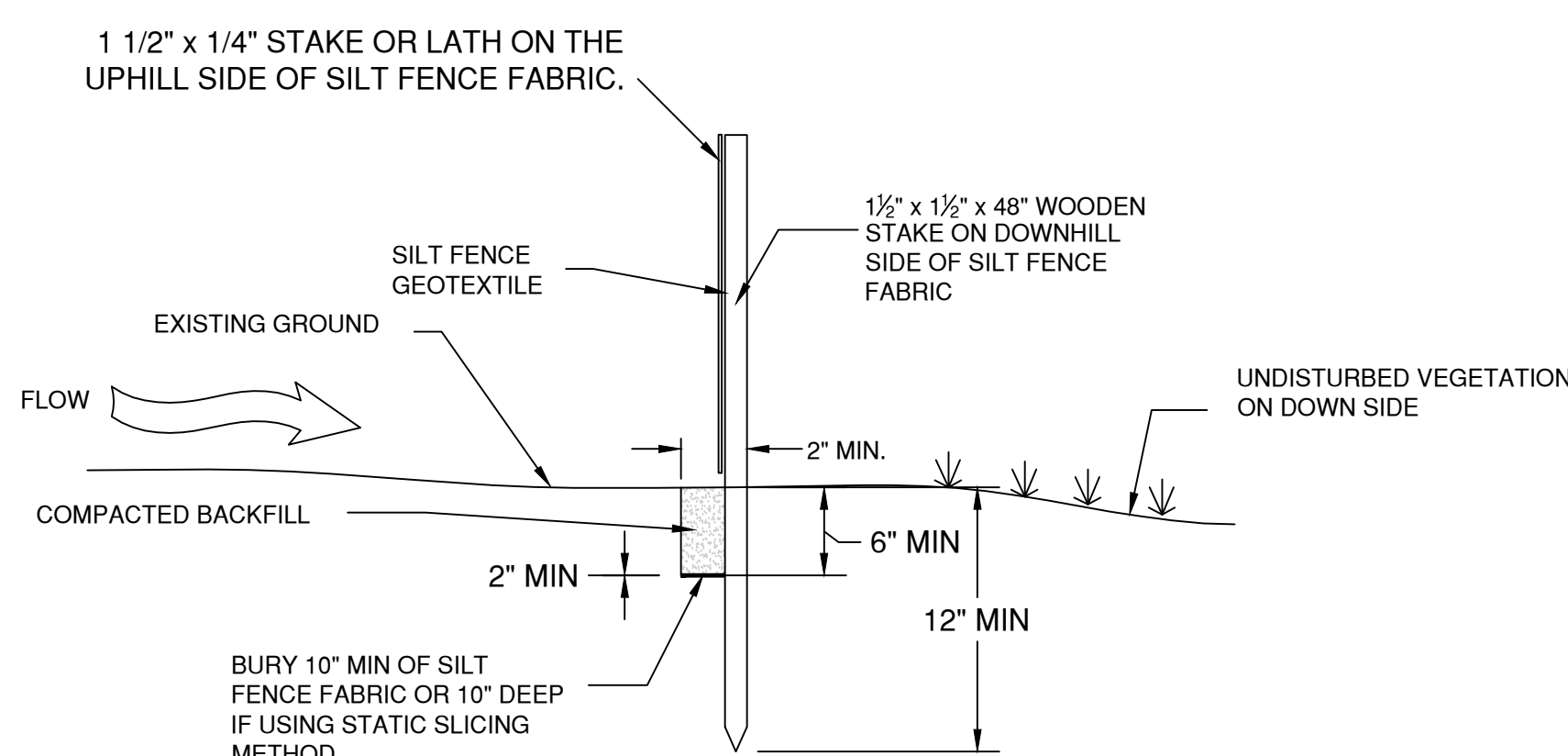
Date

VA FORM 09-6231

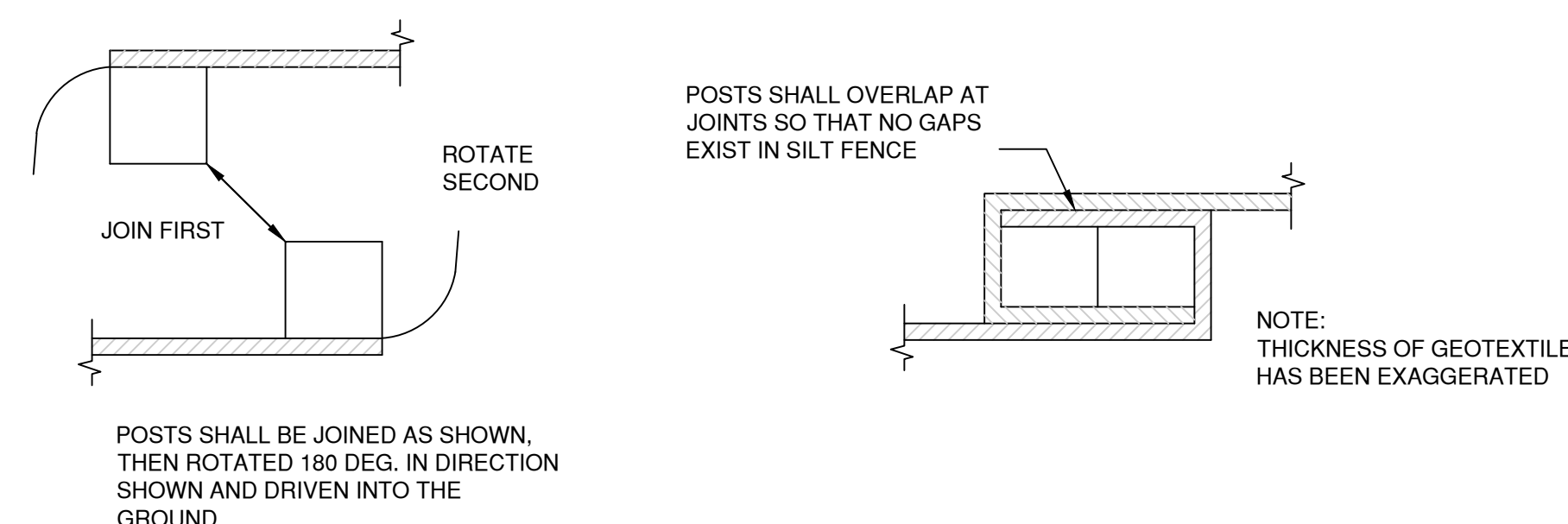




1. SOCKS WILL BE USED UPGRADIENT OF INLET PERPENDICULAR TO AND FLUSH WITH CURB.
2. NO FEWER THAN 2-10" DIAMETER SOCKS MUST BE USED IN SEQUENCE, SPACED NO MORE THAN 5 FEET APART, UPGRADIENT OF INLET. NO FEWER THAN 6 SOCKS SHALL BE USED IF THE 4" SIZE IS CHOSEN.
3. INCLINE AT 30° FROM PERPENDICULAR, OPPOSITE THE DIRECTION OF FLOW.
4. EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES AS DIRECTED BY THE COR.



SILT FENCE SECTION



JOINT SECTIONS

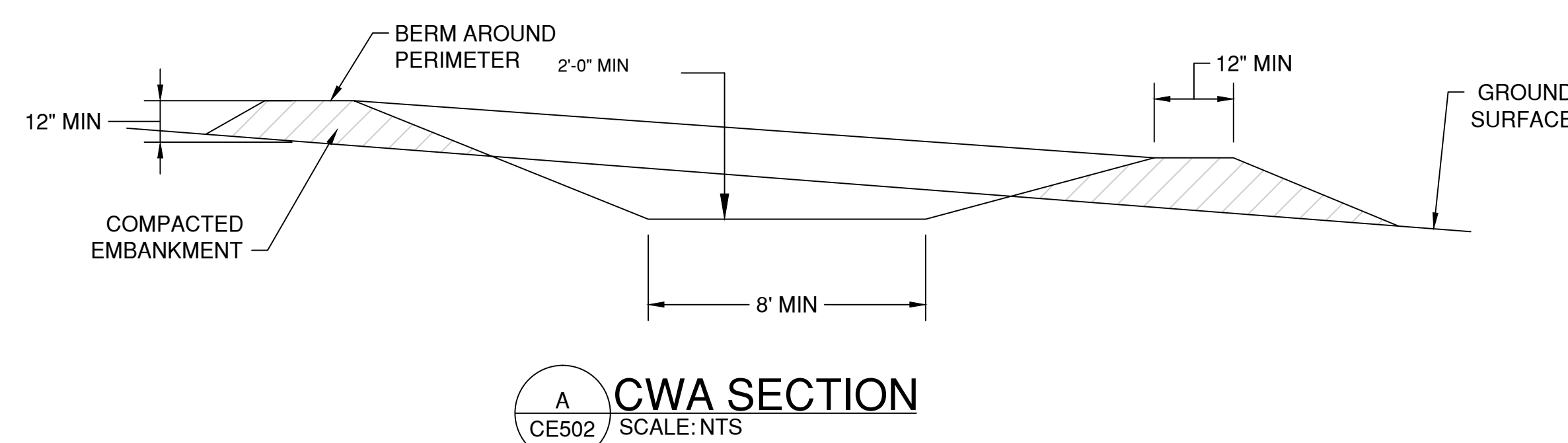
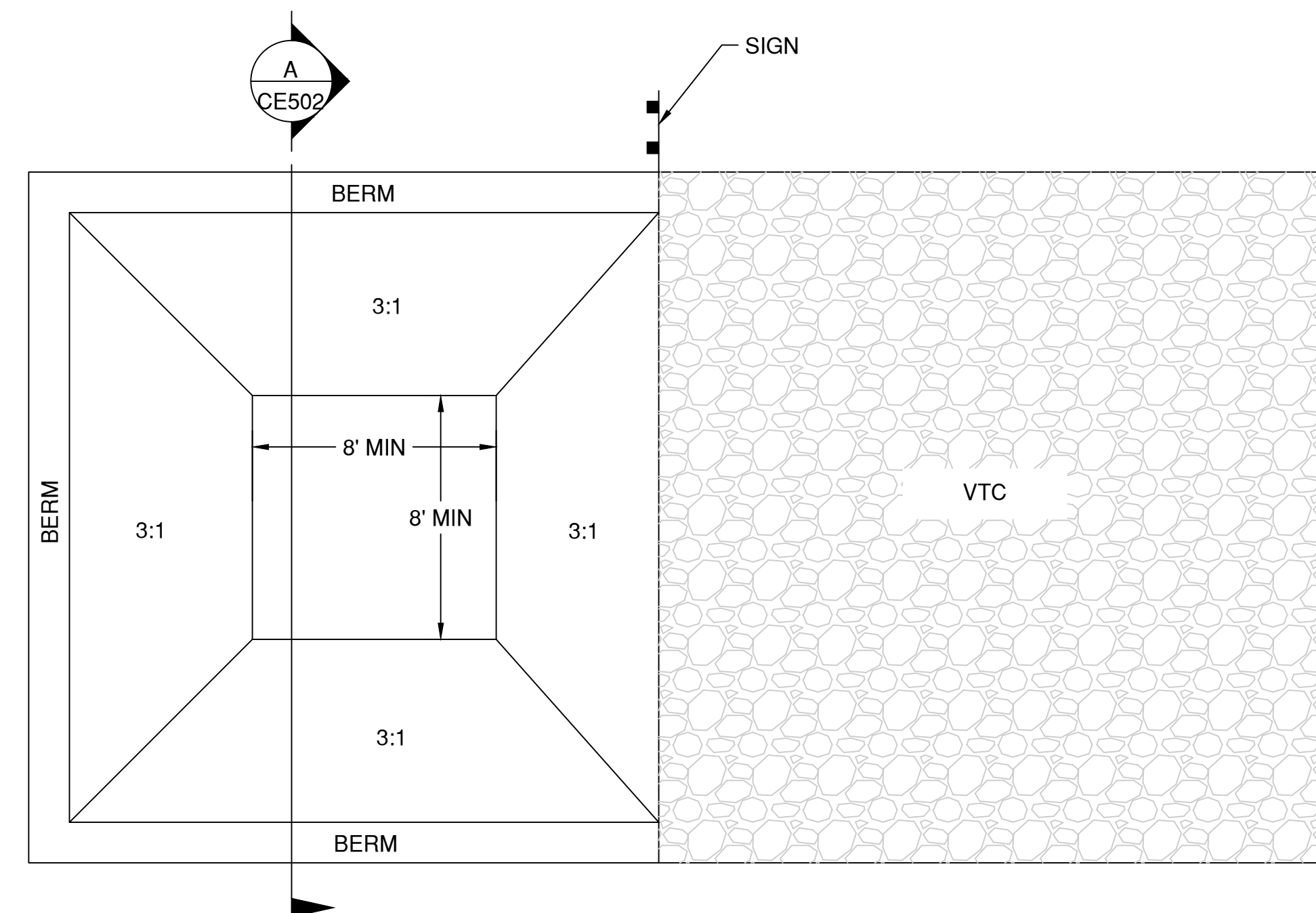
SILT FENCE INSTALLATION NOTES

1. SEE EROSION CONTROL PLAN, SHEET CE101, FOR LOCATION(S) OF SILT FENCE
2. ALL SILT FENCE SHALL BE IN GOOD CONDITION AND FREE OF ANY DEFECTS INCLUDING RIPS, HOLES AND OBVIOUS WEAR.
3. A 6" x 2" ANCHOR TRENCH SHALL BE EXCAVATED WITH TRENCHER, OR WITH SILT FENCE INSTALLATION MACHINE, ROAD GRADERS, BACKHOES, AND OTHER SIMILAR MACHINERY SHALL NOT BE USED.
4. A 10" DEEP ANCHOR SILL SHALL BE FORMED IF USING A STATIC SLICING METHOD.
5. EXCAVATED MATERIAL SHALL BE PLACED ON UPHILL SIDE OF ANCHOR TRENCH.
6. THE ANCHOR TRENCH SHALL BE FREE OF ROCKS OR OTHER DEBRIS PRIOR TO THE PLACEMENT OF THE SILT FENCE.
7. THE ANCHOR TRENCH SHALL BE BACKFILLED WITH SOIL THAT IS FREE OF ROCKS AND DEBRIS. BOTH SIDE OF THE TRENCH SHALL BE COMPACTED BY HAND, USING A VIBRATORY PLATE COMPACTOR, JUMPING JACK TAMPER OR BY WHEEL ROLLING WITH A SKID STEER OR TRACTOR.
8. SILT FENCE STAKES SHALL BE MADE OF WOOD AND HAVE THE FOLLOWING DIMENSIONS: 1 1/2" x 1 1/2" x 48"
9. STAKES SHALL BE PLACED ON THE DOWNHILL SIDE OF THE SILT FENCE FABRIC AND PLACED ON 10.0' CENTERS OR LESS. STAKES SHALL BE EMBEDDED A MINIMUM OF 12" INTO THE GROUND. A WOODEN LATH SHALL BE ATTACHED TO THE OPPOSING (UPHILL) SIDE OF THE STAKE FOR ADDED STRENGTH AND SUPPORT. THE LATH SHALL HAVE THE FOLLOWING DIMENSIONS 1 1/2" x 1 1/4" x 24".
10. SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES. THERE SHOULD NOT BE NOTICEABLE SAG ALONG ANY PORTION OF THE SILT FENCE AFTER IT HAS BEEN ANCHORED TO THE STAKES.
11. SILT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES AND LATHS USING 1" HEAVY DUTY STAPLES OR NAILS WITH 1" HEADS. STAPLES AND NAILS SHOULD BE PLACED EVERY THREE INCHES ALONG THE SILT FENCE FABRIC.
12. SILT FENCE FABRIC SHALL MEET THE FOLLOWING MANDATORY REQUIREMENTS:

- GRAB TENSILE STRENGTH	ASTM D 4632	>= 124 LBS
- MULLEN BURST STRENGTH	ASTM D 3786	>= 300PSI
- PUNCTURE STRENGTH	ASTM D 4833	>= 60 LBS
- TRAPEZOID TEAR STRENGTH	ASTM D 4533	>= 65 LBS
- UV RESISTANCE	ASTM D 4355	>= 80% @ 500 HR
- FLOW RATE	ASTM D 4491	>= 10 GAL/MIN/FT2
13. AN ORIGINAL PRODUCT SPECIFICATION SHEET FROM THE SILT FENCE MANUFACTURER SHALL BE MADE AVAILABLE AT THE REQUEST OF THE COR. THE PRODUCT SPECIFICATION SHEET SHALL PROVIDE THE RESULTS FOR THE TEST METHODS ABOVE.
14. SILT FENCE JOINTS SHALL BE CONNECTED ACCORDING THE TO ATTACHED DRAWING.

SILT FENCE INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL INSPECT SILT FENCE AT THE FOLLOWING INTERVALS:
 - IMMEDIATELY FOLLOWING INITIAL INSTALLATION
 - EVERY 14 DAYS WHILE THE SITE IS UNDER ACTIVE CONSTRUCTION
 - AFTER ANY STORM EVENT THAT CAUSES SOIL EROSION
 - ONCE A MONTH FOLLOWING THE END OF CONSTRUCTION, UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER.
 - IMMEDIATELY FOLLOWING STRONG WINDS.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED ONCE THE UPSTREAM SEDIMENT HAS REACHED A DEPTH OF 6-INCHES.
3. SILT FENCE SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE COR.
4. SILT FENCE SHALL BE REPLACED WHEN THERE IS ANY SIGNS OF WEAR.
5. WHEN THE SILT FENCE IS REMOVED ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE SILT FENCE SHALL BE RESEED PER VA SPECIFICATIONS.

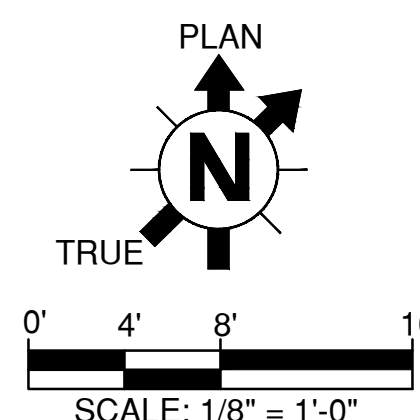


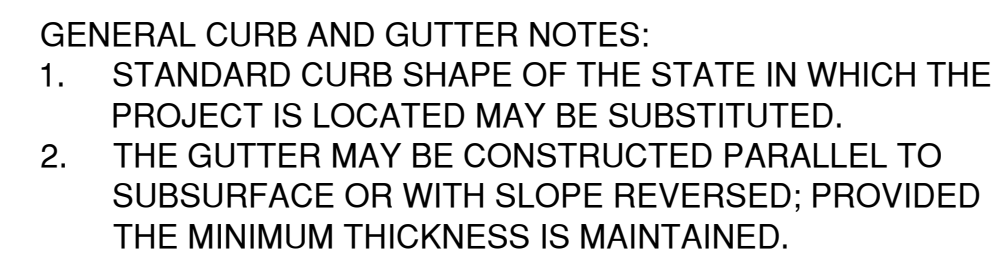
CONCRETE WASHOUT AREA INSTALLATION NOTES:

1. LOCATIONS OF CONCRETE WASHOUT AREA(S) SHALL BE DIRECTED ON SITE BY COR.
2. THE CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
3. VEHICLE TRACKING CONTROL IS REQUIRED AT THE ACCESS POINT.
4. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE WASHOUT AREA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT AREA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
5. EXCAVATED MATERIAL SHALL BE UTILIZED IN PERIMETER BERM CONSTRUCTION.

CONCRETE WASHOUT AREA MAINTENANCE NOTES:

1. THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
2. AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED WASTE SITE.
3. WHEN THE CONCRETE WASHOUT AREA IS REMOVED, THE DISTURBED AREA SHALL RE-SEEDED PER VA SPECIFICATIONS.
4. INSPECT WEEKLY, DURING AND AFTER ANY STORM EVENT.

[illegible]



Technical drawing of a standard pipe post barricade. The drawing shows two views: a side elevation and a top-down view. The side elevation shows a vertical pipe with a diameter of 3" O.D. (76mm) and a length of 5' O.C. (1.5m). The pipe is filled with concrete. The top of the pipe is 4" above the ground level. The bottom of the pipe is 1' 6" below the ground level. The pipe is surrounded by a concrete base that is 3' 6" high and 9" wide. The base is labeled "UTILITY CONCRETE PER VA SPECIFICATIONS". The top-down view shows the pipe is 9" wide and 3' 6" high. The pipe is surrounded by a concrete base that is 3' 6" high and 9" wide. The base is labeled "UTILITY CONCRETE PER VA SPECIFICATIONS".

3" O.D. [76mm]
5' O.C. [1.5m]
4"
3' 6"
4"
1' 6"
3"
9"
UTILITY CONCRETE
PER VA
SPECIFICATIONS

- NOTES:**
1. POST BARRICADES SHALL BE PAINTED WITH ONE PRIME COAT OF RED OXIDE (PAINT NO.1), ONE FINISH COAT OF DULL BLACK ENAMEL PER VA SPECIFICATIONS AND STRIPES CONSISTING OF 4" [102mm] BANDS OF YELLOW REFLECTORIZED TAPE SHALL BE USED UNLESS OTHERWISE SPECIFIED ON THE PLANS.
 2. FINISH COLOR COMBINATIONS, OTHER THAN THAT SPECIFIED ABOVE, SHALL BE SUBMITTED TO THE AGENCY FOR APPROVAL.

[illegible]

- GENERAL ACCESS RAMP NOTES:**
1. TOP OF CURB (TC) AND TOP OF RAMP ELEVATIONS SHOWN ARE IN RELATION TO THE GUTTER AND ARE LOCATED RADIALY. GUTTER = 0"
 2. SEE STANDARD VA DETAIL 32 05 23-18 "CONCRETE SIDEWALK" FOR JOINT REQUIREMENTS.
 3. WHEN CURB HEIGHTS OF GREATER THAN 7" [180mm] ARE SHOWN ON PLANS, SEE PLANS AND ADA REQUIREMENTS.
 4. LANDING RAMP AREA TO BE STANDARD ON ALL PROJECTS. TYPE 2 CURB WITH 6" [152mm] REVEAL OR BARRICADE RAILING REQUIRED ONLY WHEN NOTED ON THE PLANS IN ORDER TO RESTRICT VEHICULAR TRAFFIC.

Diagram illustrating the cross-section of a concrete curb and gutter repair. The diagram shows the following components and dimensions:

- CONC. CURB & GUTTER**: The concrete structure on the left.
- TACK COAT**: A thin layer applied to the existing pavement.
- AC PAVEMENT**: The asphalt pavement layer.
- PRIME COAT**: A thin layer applied to the AC pavement.
- 12" MIN**: The minimum width of the AC pavement repair area.
- SAWCUT & TACK COAT**: The interface between the new and existing pavement.
- EXISTING AC PVMT**: The existing asphalt pavement.
- NEW BASE COURSE**: The newly added base layer.
- BASE COURSE**: The existing base layer.
- 5" MIN**: The minimum thickness of the new base course.
- 8" MIN**: The minimum thickness of the existing base course.

Technical drawing of a ductile iron detectable warning plate. The plate is rectangular with a grid of raised domes. Dimensions include a 6" width for the ramp area on both sides, a 4.0" MIN. width for the plate itself, and a 3.0" height. A 6" MIN. distance is shown from the back of the curb to the plate. A flowline is indicated at the bottom.

Labels and dimensions in the drawing:

- PART OF RAMP
- 6"
- WIDTH OF RAMP PER STREET INTERSECTION
- TYPE (4.0" MIN.)
- 6"
- PART OF RAMP
- 2.0" MIN.
- 3.0"
- 4.0" MIN.
- 6" MIN. TO BACK OF CURB
- DUCTILE IRON DETECTABLE WARNING PLATE BY NEENAH FOUNDRY OR APPROVED EQUAL
- FLOWLINE

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.

1' (25mm) SCORED OR SAWCUT CONTRACTION JOINT.

3/16"

1/4" (6mm) R. (TYP.) FORMED JOINTS ONLY

1/4" (6mm) DEEP SCORED JOINTS

4" (TYP)

EXPANSION JOINT WITH 1/4" (6mm) BITUMINOUS JOINT FILLER

GLASS "B" CONCRETE

EXPANSION AND SCORED JOINT DETAIL

PER PLANS - 10.5' MAX

4" MIN.

1% MIN. 2% MAX.

1% MIN. 2% MAX.

TYPICAL SECTION

60' MAX.

60' MAX.

EXPANSION JOINT TO EXPANSION JOINT

SEE NOTE 7

RE: PLAN -

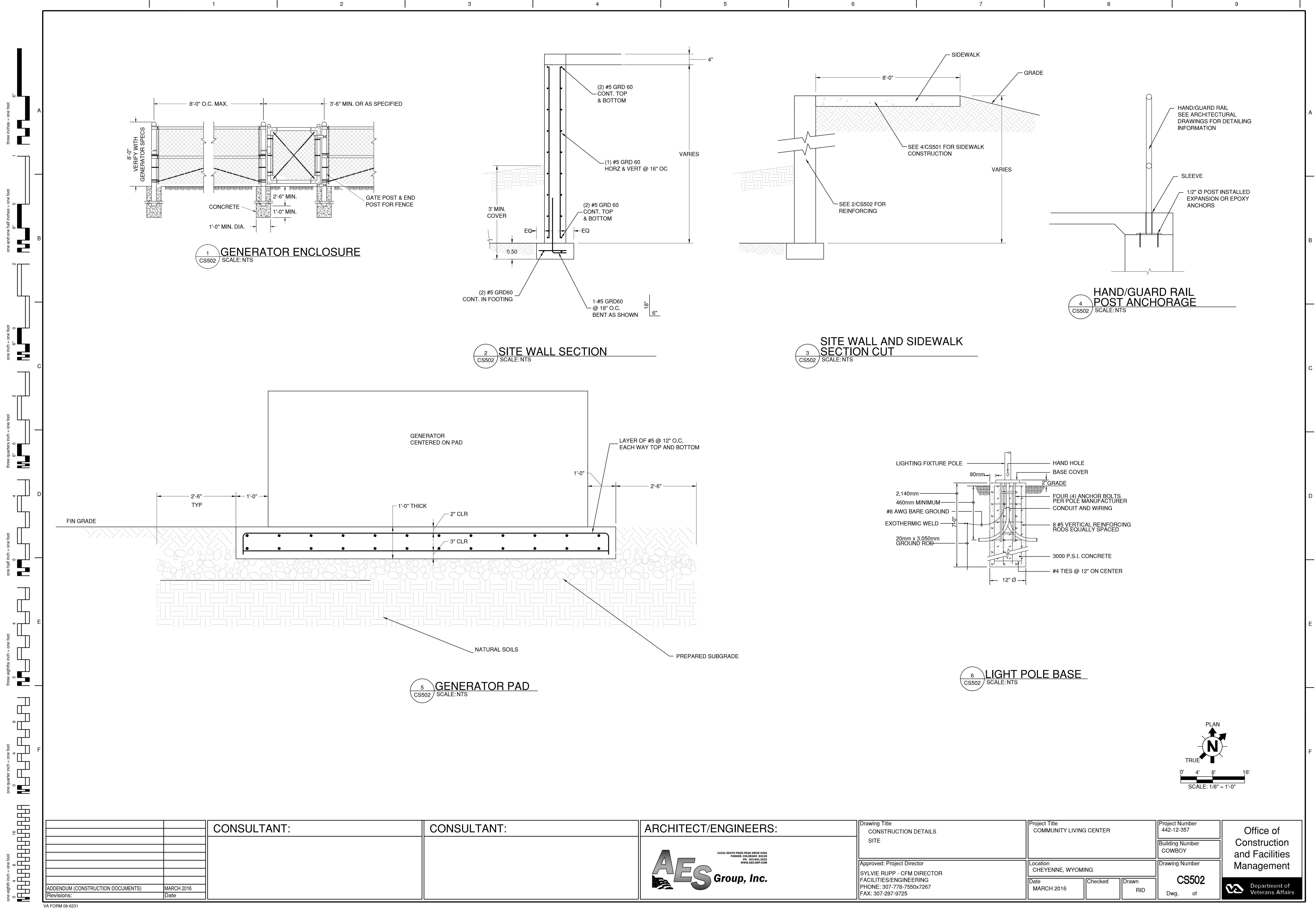
TOP OF CURB

PLAN

RE: PLAN

1. EXPANSION JOINTS SHALL BE LOCATED WHERE SIDEWALK ABUTS CONCRETE DRIVEWAYS, CURB OR OTHER ADJACENT STRUCTURES.
2. ONE-HALF INCH BITUMINOUS JOINT FILLER SHALL BE INSTALLED AT EXPANSION JOINT LOCATIONS AND SHALL EXTEND THE FULL DEPTH OF THE CONCRETE.
3. 1" DEEP CONTRACTION JOINTS SHALL BE PLACED AT INTERVALS OF APPROXIMATELY 15' [4572mm] OR AT A SPACING THAT MATCHES THE ADJACENT CURB.
4. FORMED CONTRACTION JOINTS SHALL BE FINISHED WITH A TOOL HAVING A 1/4" RADIUS.
5. SCORED JOINTS SHALL BE 1/4" DEEP AND PLACED AT THE SPACING INDICATED FOR THE WIDTH OF SIDEWALK OR MATCH SCORED JOINTS OF ADJACENT CURB.
6. CONCRETE SHALL BE FINISHED BY MEANS OF A FLOAT, STEEL TROWELLED AND BROOMED WITH A FINE BRUSH IN A TRANSVERSE DIRECTION.
7. 1/4" DEEP SCORED JOINTS (TYP) SPACED AT 6' OR EQUAL TO SIDEWALK WIDTH.

VA FORM 08-6231



ADDENDUM (CONSTRUCTION DOCUMENTS)	MARCH 2016
Revisions:	Date

CONSULTANT:

CONSULTANT:

ARCHITECT/ENGINEERS:

AES Group, Inc.

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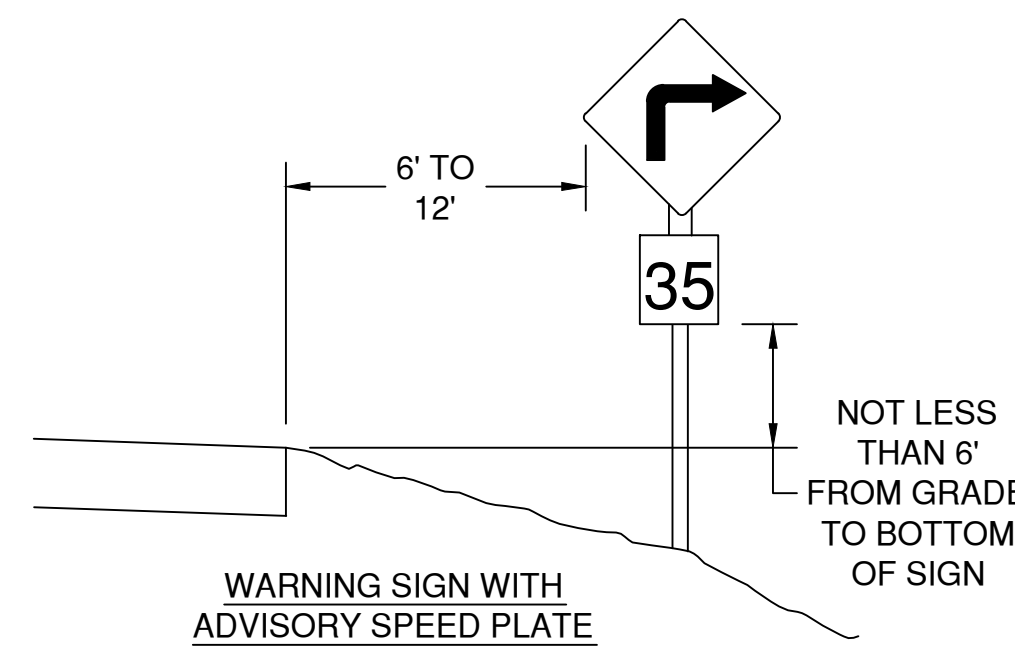
Drawing Title CONSTRUCTION DETAILS SITE
Approved: Project Director SYLVIE RUPP - CFM DIRECTOR FACILITIES/ENGINEERING PHONE: 307-778-7550x7267 FAX: 307-287-9725

Project Title COMMUNITY LIVING CENTER	Location CHEYENNE, WYOMING
Date MARCH 2016	Checked Drawn RID

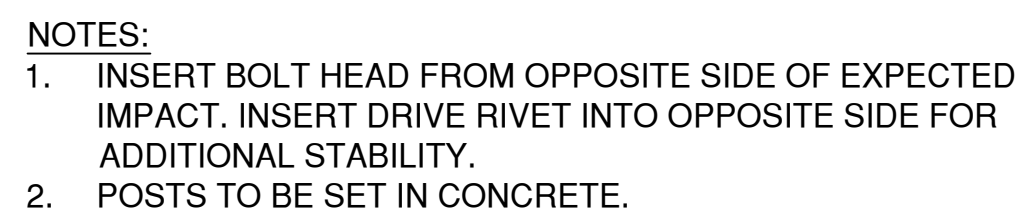
Project Number 442-12-357	Building Number COWBOY
Drawing Number CS502	Dwg. of

Office of
Construction
and Facilities
Management

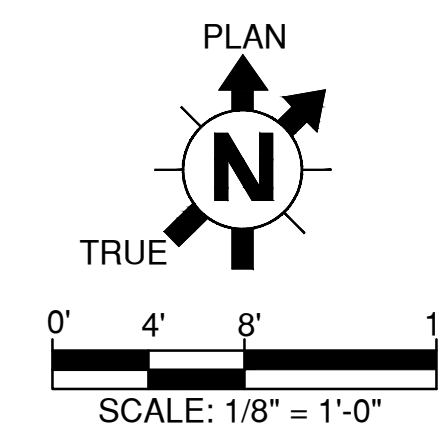
Department of
Veterans Affairs



TYPICAL HEIGHT AND LATERAL LOCATION OF SIGNAGE

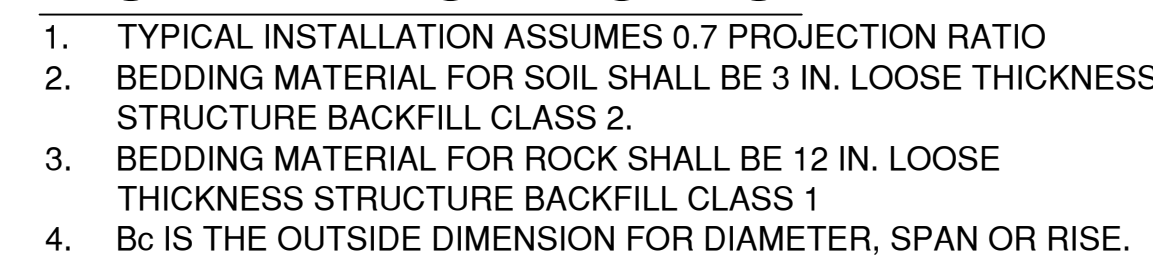


TABULATION OF SIGNS								
SIGN NO.	SIGN CODE	STATION	SIGN PANEL SIZE	SIGN PANEL (S.F.)	BACKGROUND COLOR	M	LEGEND	MISC.
01								



		CONSULTANT:	CONSULTANT:	ARCHITECT/ENGINEERS:	Drawing Title CONSTRUCTION DETAILS SIGNAGE & STRIPING	Project Title COMMUNITY LIVING CENTER	Project Number 442-12-357	Office of Construction and Facilities Management
							Building Number COWBOY	
							Drawing Number CS503	
							Dwg. of	
ADDENDUM (CONSTRUCTION DOCUMENTS)	MARCH 2016				Approved: Project Director SYLVIE RUPP - CFM DIRECTOR FACILITIES/ENGINEERING PHONE: 307-778-7550x7267 FAX: 307-287-9725	Location CHEYENNE, WYOMING		
Revisions:	Date					Date MARCH 2016	Checked CLB	
						Drawn RID		
								Department of Veterans Affairs

VA FORM 08-6231

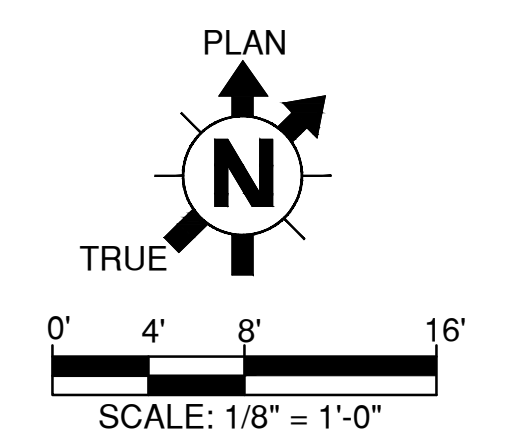


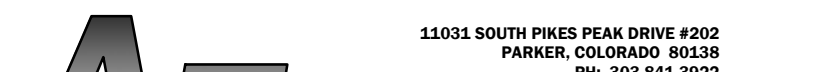
2 TYPICAL PIPE INSTALLATION
CU502 SCALE: NTS

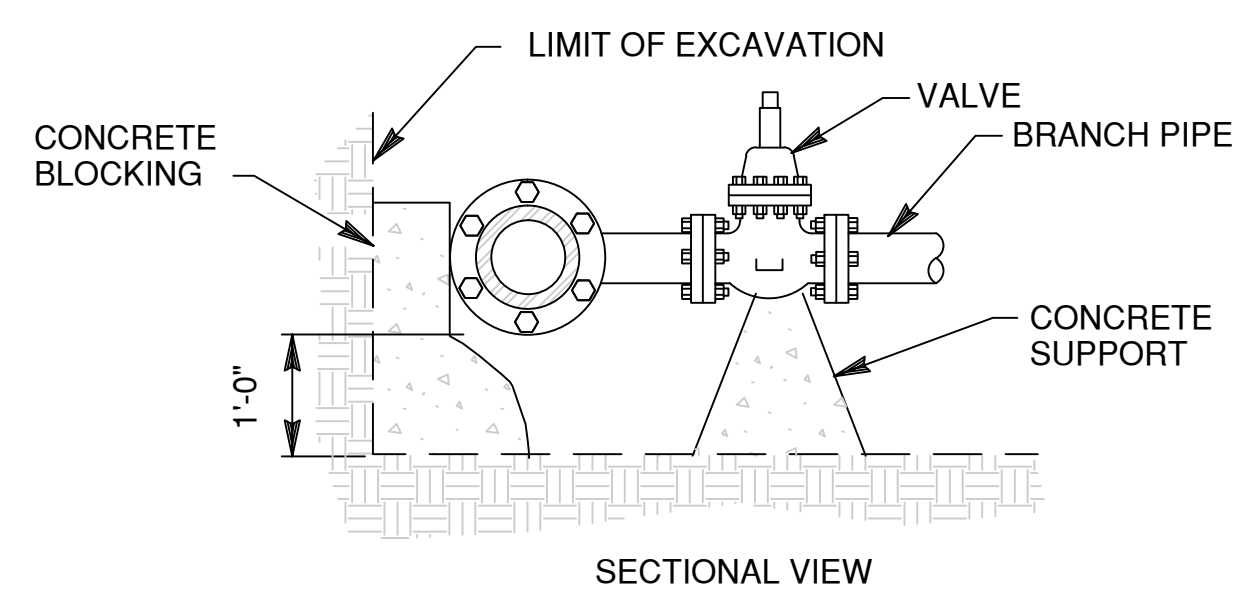
ALLOWABLE FILL HEIGHT FOR RCP					
PIPE TYPE	ALLOWABLE FILL HEIGHT IN FEET				
	CLASS OF PIPE - 0.01" CRACK D-LOAD				
	CLASS CIR II CLASS VE II CLASS HE II 1000 D	CLASS CIR III CLASS VE III CLASS HE III 1350 D	CLASS CIR IV CLASS HE IV 2000 D	CLASS CIR V CLASS VE V 3000 D	CLASS VE VI 4000 D
CIRCULAR	MIN TO 18	MIN TO 25	±25 TO 37	±37 TO 45	----
VERTICAL ELLIPTICAL (VE)	MIN TO 18	MIN TO 25	±25 TO 37	±37 TO 45	±45 TO 62
HORIZONTAL ELLIPTICAL (HE)	MIN TO 18	MIN TO 25	±25 TO 37	----	----



1. MATERIAL AND COMPACTION REQUIREMENTS FOR PIPE BEDDING/SHADING SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS FOR THE APPLICABLE UTILITY PIPE.
2. TRENCH BACKFILL SHALL COMMENCE 1 FOOT ABOVE THE TOP OF PIPE AND SHALL BE PER SECTION 31 20 11 EARTHMOVING. BACKFILL COMPACTION REQUIREMENTS SHALL BE PER SECTION 31 20 11 EARTHMOVING.
4. ABC SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 31 20 11 EARTHMOVING.
5. PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 32 05 23 CEMENT AND CONCRETE FOR EXTERIOR IMPROVEMENTS.
6. ASPHALTIC TACK MATERIAL SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 32 12 16 ASPHALTIC PAVING.
7. ASPHALTIC CONCRETE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 32 12 16 ASPHALTIC PAVING FOR THE TYPE SPECIFIED.
8. BITUMINOUS SURFACE TREATMENT (CHIP SEAL) SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 32 12 16 ASPHALTIC PAVING FOR THE TYPE SPECIFIED.

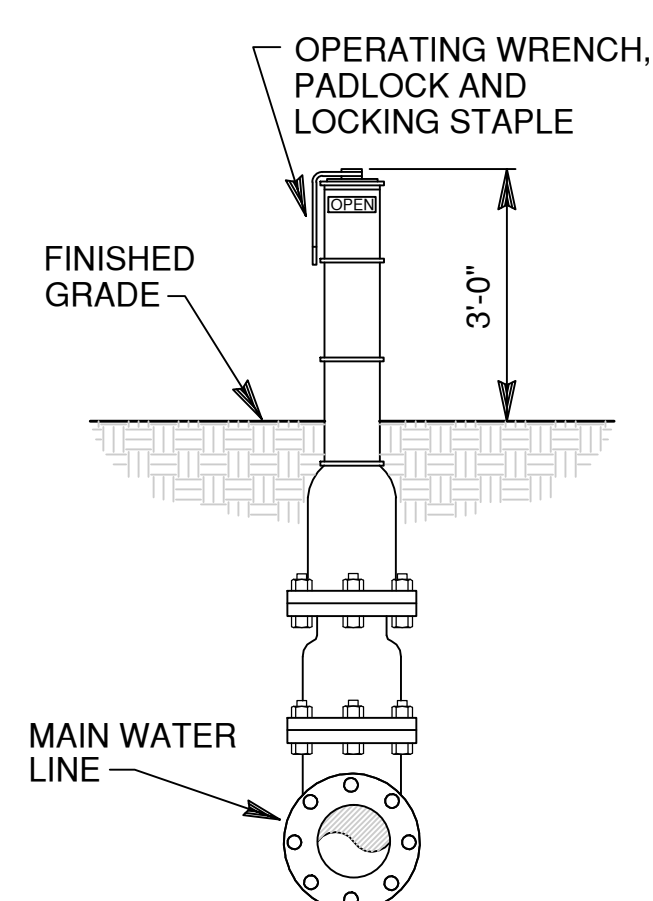


		CONSULTANT:	CONSULTANT:	ARCHITECT/ENGINEERS:	Drawing Title DETAILS STORM SEWER	Project Title COMMUNITY LIVING CENTER	Project Number 442-12-357	Office of Construction and Facilities Management		
				 <p>11031 SOUTH PINES PEAK DRIVE #202 PARADE COUNTRY RD PO BOX 841 9052 WWW.AES-GP.COM</p>			Building Number COWBOY			
					Approved: Project Director	Location CHEYENNE, WYOMING	Drawing Number CU502			
					Sylvie Rupp - CFM DIRECTOR FACILITIES/ENGINEERING PHONE: 307-778-7550x7267 FAX: 307-287-9725	Date MARCH 2016	Checked		Drawn RID	CW502
										Dwg. of
ADDENDUM (CONSTRUCTION DOCUMENTS)	MARCH 2016									
Revisions:	Date									



**TYPICAL BRANCH LINE VALVE
INSTALLATION DETAIL**

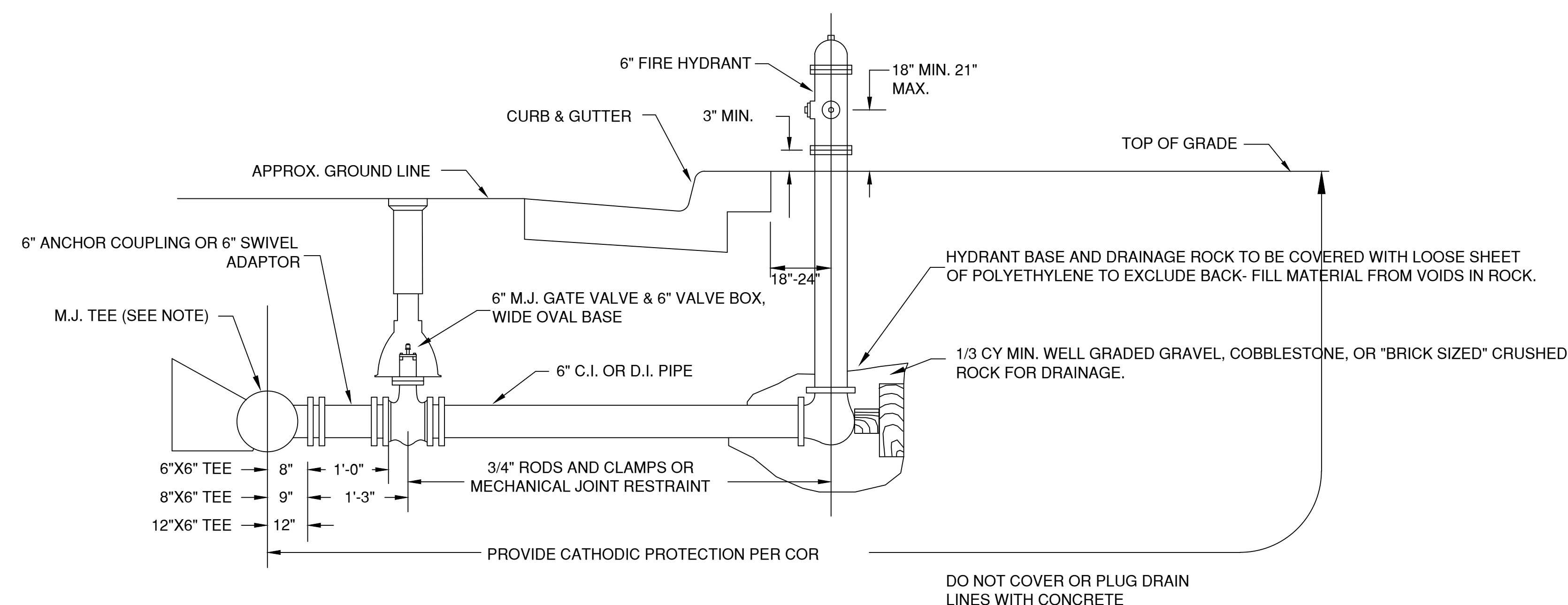
1
CU503 SCALE: NTS



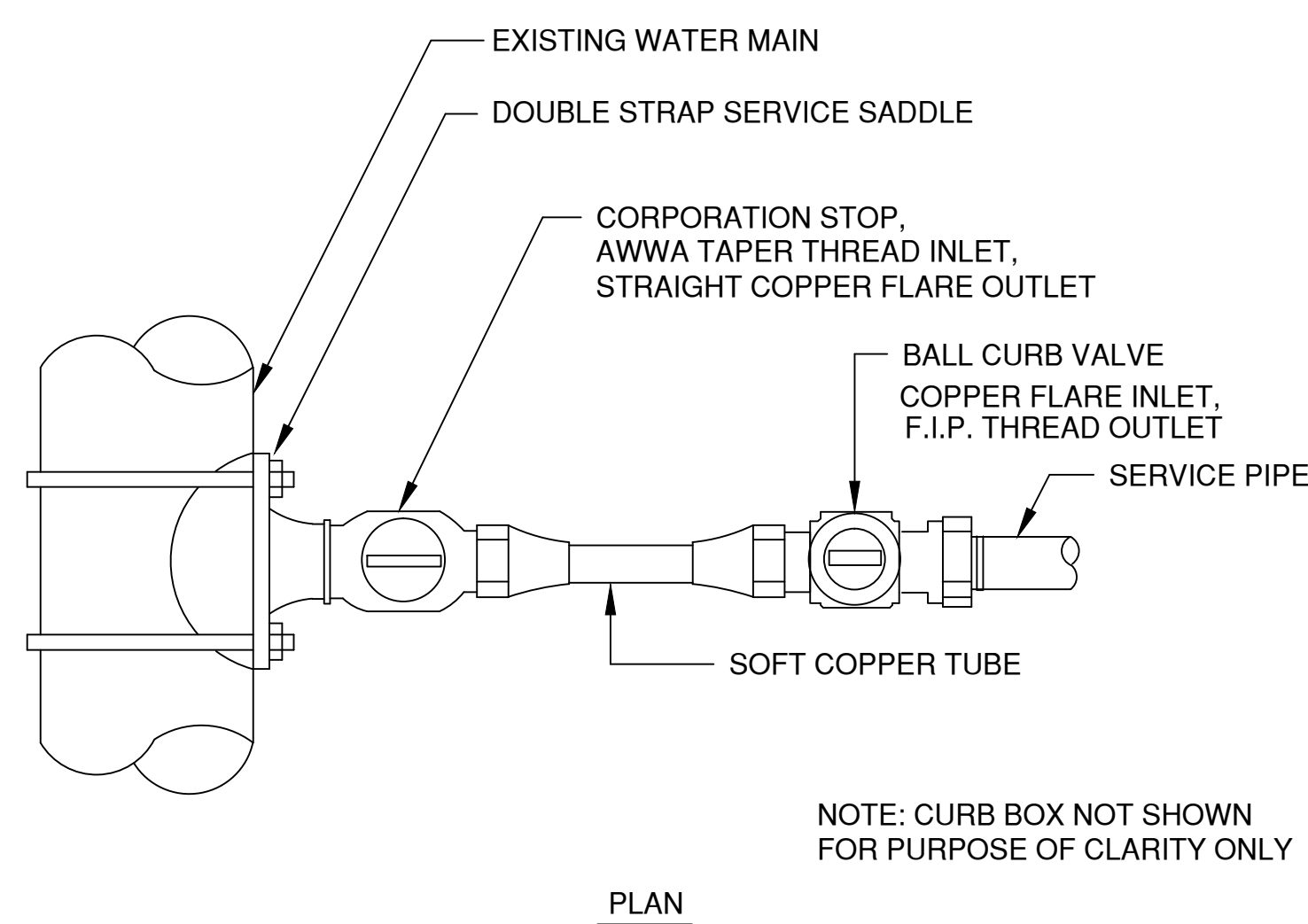
3 GATE VALVE W/ INDICATOR POST
CU503 SCALE:NTS

NOTES:

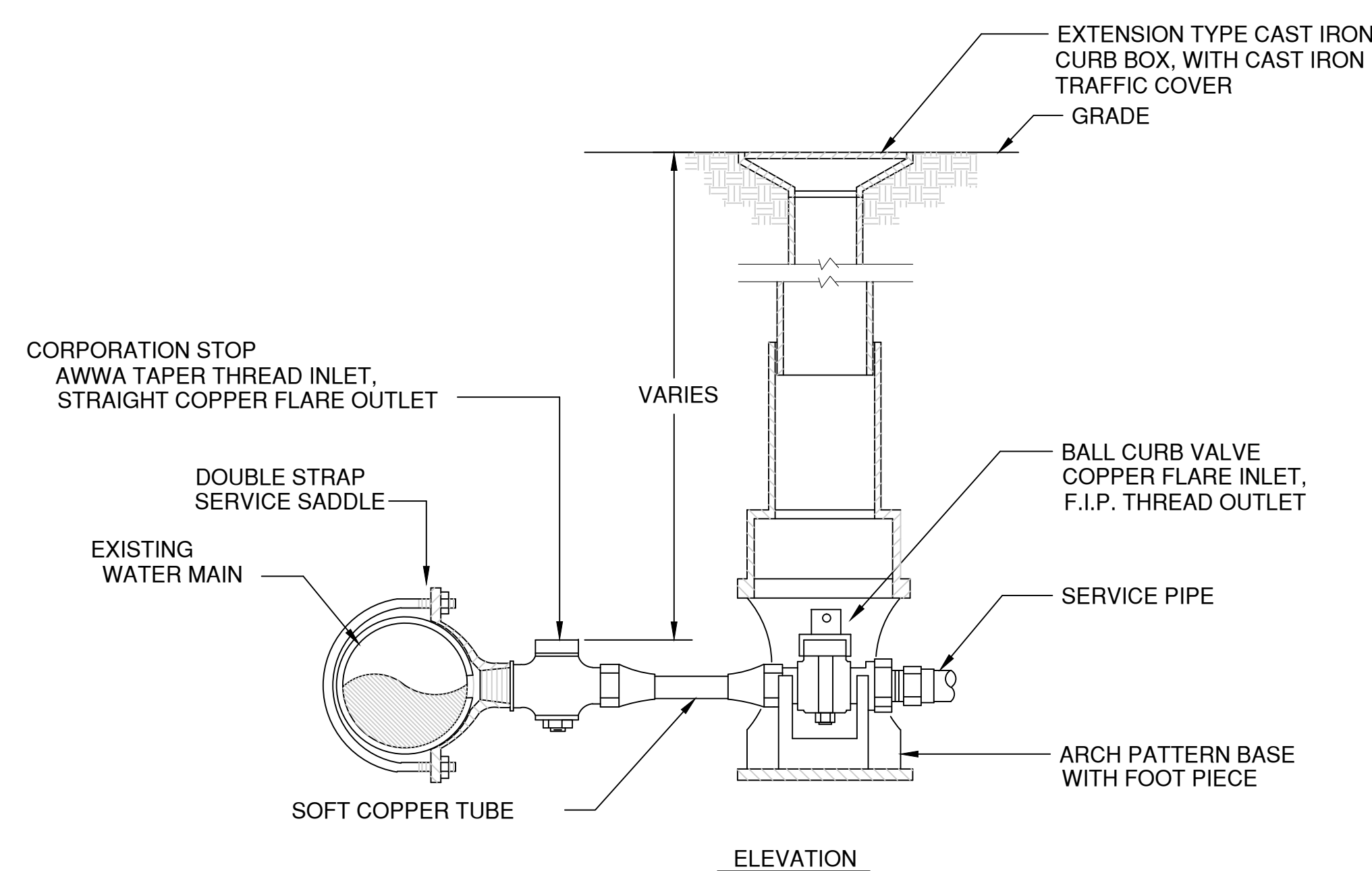
1. ALTERNATE TO THE DETAIL: FASTEN M.J. VALVE DIRECTLY TO A M.J. ANCHOR TEE (ALSO CALLED SWIVEL TEE.)
2. NO HORIZONTAL OR VERTICAL BENDS ARE ALLOWED IN FIRE HYDRANT BRANCH OR SPRINKLER LINES.
3. HYDRANTS SHALL BE PAINTED TO MATCH EXISTING.



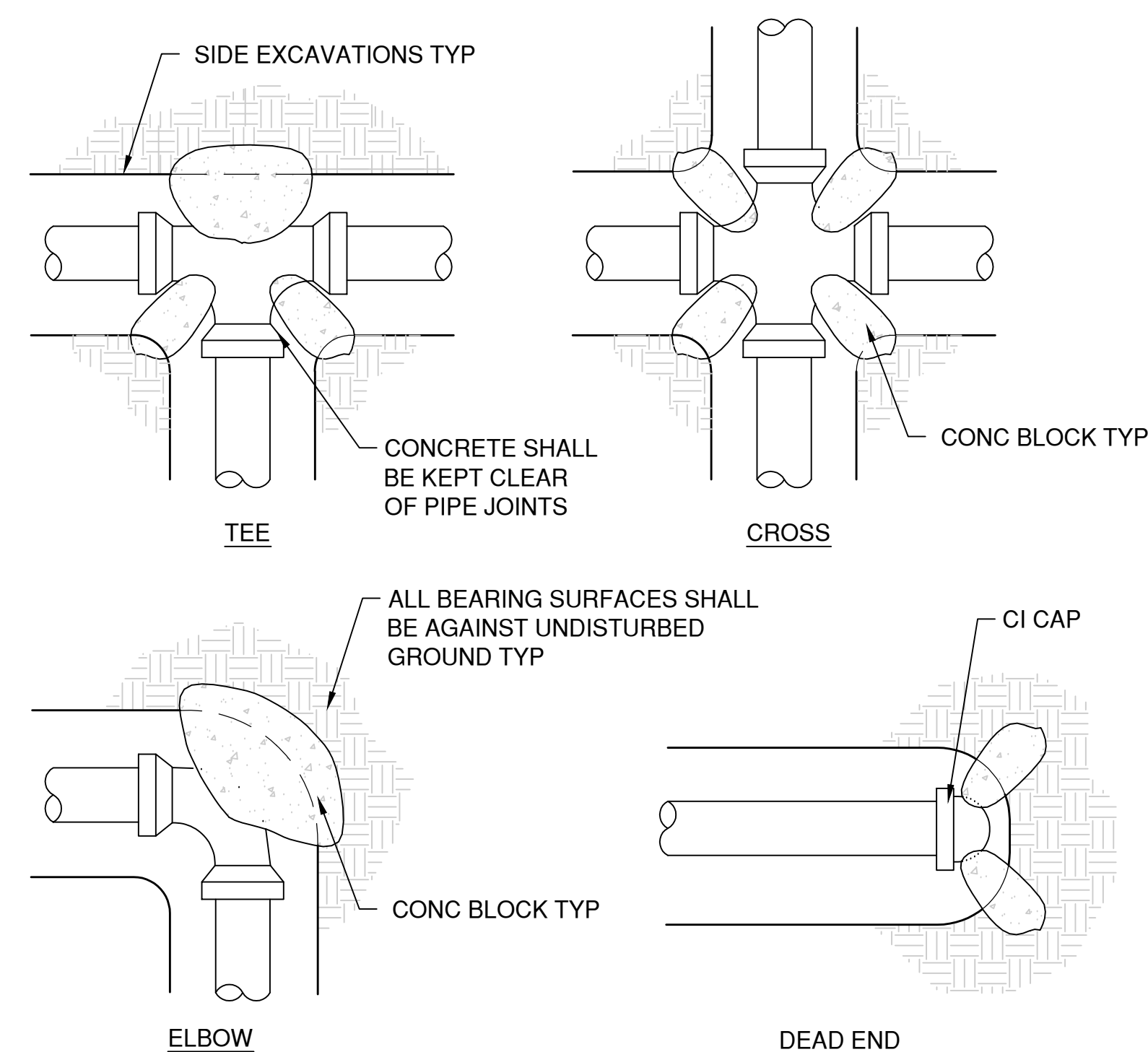
FIRE HYDRANTS
LOCATION & INSTALLATION



PLAN



4 WATER MAIN CONNECTION DETAIL
CU503 SCALE: NTS

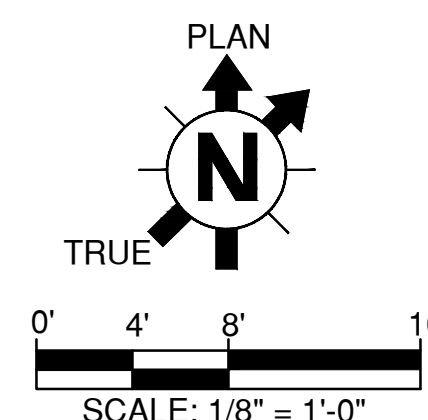




BEARING AREAS EACH DIRECTION OF THRUST IN SQUARE FEET				
PIPE SIZE	TEES & DEADENDS	90° ELBOWS	45° ELBOW CROSSES IN DIRECTION OF FLOW	22-1/2° ELBOWS
6"	4.0	5.5	3.0	2.0
8"	7.0	9.5	5.0	3.0
10"	9.5	13.5	7.0	4.0
12"	13.5	19.0	10.0	5.0
14"	18.0	23.5	14.0	7.0
16"	23.0	33.0	18.0	9.0

5
CHES

TYPICAL THRUST BLOCK
INSTALLATION DETAIL

SCALE: NTS



		CONSULTANT:	CONSULTANT:	ARCHITECT/ENGINEERS:	Drawing Title DETAILS WATER	Project Title COMMUNITY LIVING CENTER	Project Number 442-12-357	Office of Construction and Facilities Management
				<div><div>11001 SOUTH PIKES PEAK DRIVE #202 PARKER, COLORADO 80138 PH: 303.841.3932 WWW.AES-GROUP.COM</div></div>		Building Number COWBOY		
					Approved: Project Director SYLVIE RUPP - CFM DIRECTOR FACILITIES/ENGINEERING PHONE: 307-778-7550x7267 FAX: 307-287-9725	Location CHEYENNE, WYOMING	Drawing Number CU503	
ADDENDUM (CONSTRUCTION DOCUMENTS)	MARCH 2016					Date MARCH 2016	Checked	
Revisions:	Date							 Department of Veterans Affairs