AB ANCHOR BOLT ABAN ABANDON ABBRV ABBREVIATION

ABC AGGREGATE BASE COURSE AC ASPHALTIC CONCRETE

ACP ASPHALTIC CONCRETE PAVING ADA AMERICANS WITH DISABILITIES ACT

ADDM ADDENDUM
AGGR AGGREGATE
ALLOW ALLOWANCE
ALNMT ALIGNMENT

ALT ALTERNATE OR ALTITUDE

ALUM ALUMINUM
AMT AMOUNT
APPD APPROVED
APPROX APPROXIMATE
APPX APPENDIX
ASB ASBESTOS

ASCE AMERICAN SOCIETY OF CIVIL

ENGINEERS

ASI ARCHITECT'S SUPPLEMENTAL

INSTRUCTION

ASPH ASPHALT ASSY ASSEMBLY AVE AVENUE

AWG AMERICAN WIRE GAUGE AWWA AMERICAN WATER WORKS

ASSOCIATION

B&F BELL AND FLANGE B&S BELL AND SPIGOT

BAL BALANCE

BC BACK OF CURB

BCV BUTTERFLY CHECK VALVE

BDRY BOUNDARY

BFP BACKFLOW PREVENTER

BFV BUTTERFLY VALVE

BITUM BITUMINOUS
BKGD BACKGROUND
BL BASE LINE
BLDG BUILDING



DETAIL TITLE / SITE ABBREVIATIONS

SCALE : NONE

DATE ISSUED: DECEMBER 2008 CAD DETAIL NO.: SD320000-01.DWG

BLR BOILER BUILT

BLVD BOULEVARD

BM BEAM OR BENCHMARK

BN BULLNOSE
BRG BEARING
BSTR BOOSTER
BV BALL VALVE
BW BOTH WAYS

BWG BIRMINGHAM WIRE GAUGE

C TO C CENTER TO CENTER

CALC CALCULATE CAP CAPACITY

CB CATCH BASIN OR CEMENT BASE CCTV CLOSED CIRCUIT TELEVISION CD CONSTRUCTION DOCUMENTS OR

CONTRACT DOCUMENTS

CDW CHILLED DRINKING WATER

CDWR CHILLED DRINKING WATER RETURN
CDWS CHILLED DRINKING WATER SUPPLY

CEM CEMENT CEMETERY
CEM CEMETERY CEMENT

CF CONTRACTOR FURNISHED
CFS CUBIC FEET PER SECOND

CG CENTER OF GRAVITY
CH CHANNEL OR CHILLER

CHFR CHAMFER CHK CHECK

CHKV CHECK VALVE

CCHW CHILLED WATER CIRCULATING HOT

WATER

CHW CIRCULATING HOT WATER CHILLED

WATER

CHWP CHILLED WATER PUMP

CHWPP CHILLED WATER PRIMARY PUMP

CHWR CHILLED WATER RETURN

CHWRP CHILLED WATER RECIRCULATING

PUMP

CHWS CHILLED WATER SUPPLY

CHWSP CHILLED WATER SECONDARY PUMP



DETAIL TITLE / SITE ABBREVIATIONS

SCALE : NONE

DATE ISSUED: DECEMBER 2008 CAD DETAIL NO.: SD320000-02.DWG

CI CAST IRON OR CURB INLET

CIP CAST-IN-PLACE OR CAST IRON PIPE

CIR CIRCLE

CJ CONSTRUCTION JOINT OR CONTROL

JOINT

CL CENTER LINE, CLASS, OR CLOSE

CLASS CLASSIFICATION

CLL CONTRACT LIMIT LINE

CLOS CLOSURE
CLR CLEAR
CM CENTIMETER

CMP CORRUGATED METAL PIPE

CMU CONCRETE MASONRY UNIT

CNCL CONCEALED
CND CONDUIT
CNDS CONDENSATE
CNR CORNER
CNTOR CONTACTOR

CO CERTIFICATE OF OCCUPANC,

CLEANOUT, COMPANY, OR CUTOUT

COL COLUMN

COMM COMMUNICATION

CONC CONCENTRIC OR CONCRETE

CONC FLR CONCRETE FLOOR

COND CONDENSER OR CONDITION

CONDN CONDENSATION
CONF CONFERENCE
CONSTR CONSTRUCTION
CONSULT CONSULTANT
CONT CONTINUE

CONTR CONTRACT OR CONTRACTOR

COORD COORDINATE

COR CHANGE ORDER REQUEST

CORR CORRIDOR

COTG CLEANOUT TO GRADE

COV COVER OR CUT OFF VALVE

COV PL COVER PLATE

CP CONCRETE PIPE OR CONTROL PANEL

CPLG COUPLING

CPM CRITICAL PATH METHOD

CRCMF CIRCUMFERENCE



DETAIL TITLE / SITE ABBREVIATIONS

SCALE : NONE

DATE ISSUED: DECEMBER 2008 CAD DETAIL NO.: SD320000-03.DWG

CRN CROWN

CRP CONDENSATE RETURN PUMP
CRSI CONCRETE REINFORCING STEEL

INSTITUTE

CRT YD COURTYARD

CSB CONCRETE SPLASH BLOCK
CSI CONSTRUCTION SPECIFICATIONS

INSTITUTE

CSP CONCRETE SEWER PIPE

CSTL CAST STEEL

CTR CENTER, CONTOUR, OR COOLING

TOWER RETURN

CTRL CONTROL

CTS COOLING TOWER SUPPLY

CTV CABLE TELEVISION CU COPPER OR CUBIC

CU FT CUBIC FEET
CU IN CUBIC INCH
CU YD CUBIC YARD
CV CONTROL VALVE

CW CLOCKWISE OR COLD WATER PIPING

CWP CIRCULATING WATER PUMP OR

CONDENSER WATER PUMP

CWR CONDENSER WATER RETURN
CWS CONDENSER WATER SUPPLY

D PENNY (NAIL)
DA DRAINAGE AREA

DAT DATUM

D-B DESIGN-BUILD

DBA UNIT OF SOUND LEVEL

DBL DOUBLE
DEG DEGREE
DEL DELETE
DEMO DEMOLITION
DEPT DEPARTMENT
DESCR DESCRIPTION

DET DETAIL

DEV DEVELOPMENT

DHW DOMESTIC HOT WATER

DI DROP INLET



DETAIL TITLE / SITE ABBREVIATIONS

SCALE : NONE

DATE ISSUED: DECEMBER 2008 CAD DETAIL NO.: SD320000-04.DWG

DIA DIAMETER

DIAG DIAGONAL DIAGRAM DIAGONAL

DIFF DIFFERENCE OR DIFFERENTIAL

DIM DIMENSION

DIP DUCTILE IRON PIPE

DIR DIRECTION
DIST DISTANCE
DIV DIVISION
DOC DOCUMENT
DOM DOMESTIC
DOUG FIR DOUGLAS FIR

DOZ DOZEN

DR DRAIN OR DRIVE
DS DOWNSPOUT
DSBL DISABLE
DSGN DESIGN

DW DOMESTIC WATER

DWG DRAWING

DWR DOMESTIC WATER RETURN OR

DRAWER

DWS DOMESTIC WATER SUPPLY

E EAST FACH

EC EDGE OF CURB EXPANSION JOINT

EL EASEMENT LINE OR ELEVATION

ENGR ENGINEER
ENTRANCE
EOS EDGE OF SLAB

EP EDGE OF PAVEMENT (PAVING)
EPA ENVIRONMENTAL PROTECTION

AGENCY

EPT EXTERNAL PIPE THREAD

EQ EQUAL

EQL SP EQUALLY SPACED

EQUIP EQUIPMENT EQUIVALENT

ERD EXISTING ROOF DRAIN ES EDGE OF SHOULDER



DETAIL TITLE / SITE ABBREVIATIONS

SCALE : NONE

DATE ISSUED: DECEMBER 2008 CAD DETAIL NO.: SD320000-05.DWG

ESMT EASEMENT
EST ESTIMATE
EW EACH WAY
EXCL EXCLUDE
EXIST EXISTING
EXP EXPANSION
EXST GR EXISTING GRADE

EXT EXTERIOR

EXT GR EXTERIOR GRADE

F FAHRENHEIT FEMALE; FIRE LINE FEMALE FAHRENHEIT; FIRE LINE

F FIRE LINE
F METER FLOWMETER
F/F FACE TO FACE

FACIL FACILITY

FD FLOOR DRAIN

FF EL FINISH FLOOR ELEVATION

FH FIRE HYDRANT

FIG **FIGURE** FIL FILLET FIN **FINISH** FLG **FLANGE** FLL FLOW LINE FLR **FLOOR** FLRD **FLARED** FLTR FILTER

FLUOR FLUORESCENT

FN FENCE

FOC FACE OF CURB

FP FIRE PROTECTION OR FLAGPOLE

FPM FEET PER MINUTE FPS FEET PER SECOND

FPW FIRE PROTECTION WATER SUPPLY

FSP FIRE STANDPIPE

FSS FLOW SENSING SWITCH

FT FEET OR FOOT

FTG FOOTING FLOOD WALL

G GROUND OR NATURAL GAS



DETAIL TITLE / SITE ABBREVIATIONS

SCALE : NONE

DATE ISSUED: DECEMBER 2008 CAD DETAIL NO.: SD320000-06.DWG

G LN GAS LINE
GA GAGE
GAL GALLON

GC GENERAL CONTRACTOR
GCO GRADE CLEANOUT

GDR GUARD RAIL GEN GENERATOR

GI GALVANIZED IRON

GIP GALVANIZED IRON PIPE

GL GROUND LEVEL GOVT GOVERNMENT

GPD GALLONS PER DAY

GR BM GRADE BEAM
GT GREASE TRAP
GTV GATE VALVE
GUT GUTTER

H&CW HOT AND COLD WATER HAZ MAT HAZARDOUS MATERIALS

HB HOSE BIBB HC HANDICAP HCP HANDICAPPED

HDPE HIGH DENSITY POLYETHYLENE

HDR HEADER
HDWL HEADWALL
HEX HEXAGON
HH HAND HOLE
HNDRL HANDRAIL
HORIZ HORIZONTAL
HIGH PRESSUE

HP HIGH PRESSURE

HT HEIGHT

HTHW HIGH TEMPERATURE HOT WATER

HTWR HEATING WATER RETURN
HTWS HEATING WATER SUPPLY

HV HOSE VALVE HW HOT WATER

HWB HOT WATER BOILER
HWL HOT WATER LINE
HWR HOT WATER RETURN
HWS HOT WATER SUPPLY
HWT HOT WATER TANK

Department of Veterans Affairs

DETAIL TITLE / SITE ABBREVIATIONS

SCALE : NONE

DATE ISSUED: DECEMBER 2008 CAD DETAIL NO.: SD320000-07.DWG

HWY HIGHWAY
HYD HYDRANT
HYDR HYDRAULIC

ID INSIDE DIAMETER OR INSIDE

DIMENSION

IMH INLET MANHOLE

INCL INCLUDED
INCR INCREMENT
INFO INFORMATION

INSTL INSTALL
INSTR INSTRUMENT

INV INVERT

INV EL INVERT ELEVATION

IP IRON PIPE

IPS IRON PIPE SIZE

IPT IRON PIPE THREADED

IRREG IRREGULAR ISO ISOMETRIC

IW IRRIGATION WATER

KWY KEYWAY

L ANGLE LATITUDE

LF LINEAR FEET (FOOT)

LIN LINEAR
LNG LONGITUDE
LOC LOCATION
LONG LONGITUDINAL
LOS LINE OF SIGHT
LPT LOW POINT
LS LUMP SUM

LT LIGHT LTG LIGHTING

MAINT MAINTENANCE MATL MATERIAL

MATV MASTER ANTENNA TELEVISION

SYSTEM

MAX MAXIMUM



DETAIL TITLE / SITE ABBREVIATIONS

SCALE : NONE

DATE ISSUED: DECEMBER 2008 CAD DETAIL NO.: SD320000-08.DWG

MB MAIL BOX MEDIUM

MEMO MEMORANDUM MER MERIDIAN

MFD MANUFACTURED
MFG MANUFACTURING
MGT MANAGEMENT
MH MANHOLE
MIN MINIMUM

MISC MISCELLANEOUS
ML MATERIALS LIST
MN MAGNETIC NORTH
MOD MODEL OR MODIFY

MON MONUMENT
MTG MEETING
MULT MULTIPLE
MUNIC MUNICIPAL

N NORTH

NA NOT APPLICABLE

NAT NATURAL NATIONAL

NBC NATIONAL BUILDING CODE

NE NOT EXCEEDING
NIC NOT IN CONTRACT

NO NUMBER NOM NOMINAL NORM NORMAL

NRCP NON-REINFORCED CONCRETE PIPE

NTP NOTICE TO PROCEED

NTS NOT TO SCALE

OC ON CENTER

OFD OVERFLOW DRAIN

OPNG OPENING OZ OUNCE

P PUMP

PA PIPE ANCHOR
PAR PARALLEL
PAT PATTERN



DETAIL TITLE / SITE ABBREVIATIONS

SCALE : NONE

DATE ISSUED: DECEMBER 2008 CAD DETAIL NO.: SD320000-09.DWG

PB PULL BOX

PC POINT OF CURVE

PCA PORTLAND CEMENT ASSOCIATION

PCC PRECAST CONCRETE PCCP CONCRETE PAVEMENT

PCT PERCENT
PED PEDESTAL
PEN PENETRATE
PERF PERFORATED
PERIM PERIMETER
PERM PERMANENT
PERP PERPENDICULAR

PG PRESSURE GAGE OR PROFILE GRADE

PH PHASE

PHOTO PHOTOGRAPH

PHWR PRIMARY HOT WATER RETURN
PHWS PRIMARY HOT WATER SUPPLY

PI POINT OF INTERSECTION PIV POST INDICATOR VALVE

PK GAR
PARKING GARAGE
PK LOT
PL
PROPERTY LINE
PLAS
PLASTIC PLASTER
PMPSCT
PUMP SUCTION
PN
PART NUMBER
PNEU
PNEU

PO POST OFFICE OR PURCHASE ORDER

POLY POLYETHYLENE (PLASTIC)

PORT PORTABLE
POTW POTABLE WATER
POW LN POWER LINE

PP POLYPROPYLENE (PLASTIC)

PR PUMPED RETURN

PRCST **PRECAST PREFORMED** PREFMD PRELIM **PRELIMINARY** PREP PREPARATION PREV **PREVIOUS** PRKG **PARKING** PROJ PROJECT PROP **PROPERTY**

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DETAIL TITLE / SITE ABBREVIATIONS

SCALE : NONE

DATE ISSUED: DECEMBER 2008 CAD DETAIL NO.: SD320000-10.DWG

PRV PRESSURE REGULATOR VALVE OR

PRESSURE RELIEF VALVE PRESTRESSED CONCRETE

PS CONC PRESTRESSED CONCRETE
PSI POUNDS PER SQUARE INCH

PSL PIPE SLEEVE POST TENSIONED

PT CONC POST—TENSIONED CONCRETE
PTRV PRESSURE TEMPERATURE RELIEF

VALVE

PV PAVED

PV RD PAVED ROAD

PVC POLYVINYL CHLORIDE (PLASTIC)

QTR QUARTER
QTY QUANTITY
QUAD QUADRANT
QUAL QUALITY

R RADIUS OR RANGE

RAD RADIAN

RC REINFORCED CONCRETE

RCB REINFORCED CONCRETE BOX

RCCP REINFORCED CONCRETE CULVERT

PIPE

RCP REINFORCED CONCRETE PIPE

RD ROAD OR ROOF DRAIN

RDC REDUCER

REBAR REINFORCING STEEL BARS

REP REPAIR
REPL REPLACE
REQ REQUIRE
REQD REQUIRED
RESIL RESILIENT

RFI REQUEST FOR INFORMATION RFP REQUEST FOR PROPOSAL

ROW RIGHT OF WAY

RST REINFORCING STEEL

RT RIGHT

RV RELIEF VALVE RW ROADWAY

RWL RAIN WATER LEADER



DETAIL TITLE / SITE ABBREVIATIONS

SCALE : NONE

DATE ISSUED: DECEMBER 2008 CAD DETAIL NO.: SD320000-11.DWG

RWR RECESSED WASTE RECEPTACLE

SAMP SAMPLE SAN SANITARY

SB SPLASH BLOCK
SCHED SCHEDULE
SCP SCUPPER
SD STORM DRAIN

SDL SADDLE

SDMH STORM DRAIN MANHOLE

SECT SECTION
SEG SEGMENT
SEL SELECT
SEP SEPARATE
SEP TNK SEPTIC TANK

SF SQUARE FOOT (FEET)

SHLDR SHOULDER SUCCESSION SCORED JOINT

SLV SLEEVE
SM SILTY SAND
SMH STEAM MANHOLE
SMP SUMP PUMP

SOV SHUT OFF VALVE

SP STANDPIPE OR SUMP PIT

SP EL SPOT ELEVATION
SPEC SPECIFICATION
SPKLR SPRINKLER
SPLY SUPPLY

SPR SPRINKLER LINE

SQ SQUARE

SQ IN SQUARE INCH SQ YD SQUARE YARD SR STEAM RETURN

SS SANITARY SEWER, STEAM SUPPLY,

OR STORM SEWER

SSP STAINLESS STEEL PIPE

SST STAINLESS STEEL

ST STREET

ST W STORM WATER

STA STATION STD STANDARD



DETAIL TITLE / SITE ABBREVIATIONS

SCALE : NONE

DATE ISSUED: DECEMBER 2008 CAD DETAIL NO.: SD320000-12.DWG

STIR **STIRRUP** STM STEAM SUCT SUCTION SUPT SUPPORT SURF **SURFACE** SURV SURVEY SUTK SUMP TANK SW SIDEWALK SWG SEWAGE SWR SEWER SYM SYMBOL

T&M TIME AND MATERIALS

TAN TANGENT

TBM TEMPORARY BENCHMARK

TB-XX TEST BORING-XX (E.G., TB-01)

TCP TRAFFIC CONTROL PLAN

TD TRENCH DRAIN
TE TOP ELEVATION
TEL TELEPHONE
TEMP TEMPORARY
THK THICKNESS
THRU THROUGH

TMH TOP OF MANHOLE

TN TRUE NORTH

TNL TUNNEL TO TOP OF ___

TO FDN TOP OF FOUNDATION

TOB TOP OF BEAM

TOC TOP OF CONCRETE OR TOP OF

CURB

TOC FTG TOP OF CONCRETE FOOTING TOC WALL TOP OF CONCRETE WALL

TOF TOP OF FOOTING TOP OF PAVEMENT

TOPO TOPOGRAPHY
TOS TOP OF SLAB
TP TELEPHONE POLE
TOP OF PIM

TR TOP OF RIM

TWR TREATED WATER RETURN TWS TREATED WATER SUPPLY



DETAIL TITLE / SITE ABBREVIATIONS

SCALE : NONE

DATE ISSUED: DECEMBER 2008 CAD DETAIL NO.: SD320000-13.DWG

TYP TYPICAL

UFC UNIFORM FIRE CODE

UGND UNDERGROUND

UNFIN UNFINISH

UNPV RD UNPAVED ROAD

UON UNLESS OTHERWISE NOTED

UP UTILITY POLE

UPS UNINTERRUPTIBLE POWER SUPPLY

UTIL UTILITY

VAR VARIES
VB VALVE BOX

VC VERTICAL CURVE

VCO VACUUM CLEANER OUTLET VCT VITRIFIED CLAY TILE VINYL

COMPOSITION TILE

VERT VERTICAL
VIC VICINITY
VID VIDEO

VIF VERIFY IN FIELD

VOL VOLUME

W WASTE, WEST, OR WIDE

W/ WITH W/O WITHOUT

WI WROUGHT IRON
WL WATER LINE
WLD WELDED

WM WATER METER WIRE MESH WM WIRE MESH WATER METER

WO WORK ORDER
WP WATER PUMP
WT WATER TABLE
WT EL WATER ELEVATION

WTR WATER

WW WASTE WATER

WW WASTE WATER WARM WHITE;

WIREWAY

XFMR TRANSFORMER



DETAIL TITLE / SITE ABBREVIATIONS

SCALE : NONE

DATE ISSUED: DECEMBER 2008 CAD DETAIL NO.: SD320000-14.DWG

SITE SYMBOLS - GENERAL



CENTER LINE INDICATOR

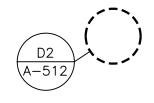
---- DEMOLITION LINE

----- EXISTING TO REMAIN LINE

— — — FEATURES ABOVE LINE INDICATOR

BREAK, ROUND (USER DEFINES SIZE)

——√— BREAK, ROUND (USER DEFINES SIZE)



DETAIL INDICATOR



DIMENSION (CIVIL ONLY)



DRAWING BLOCK TITLE WITH GRAPHIC SCALE (SHOWN HALF ACTUAL SIZE)



ELEVATION INDICATOR



IDENTIFICATION DEVICE INDICATOR



KEYNOTE INDICATOR



FEATURES ABOVE LINE INDICATOR



REVISION INDICATOR (SHOWN WITH CLOUD)



DETAIL TITLE / ELECTRICAL SYMBOLS - GENERAL

SCALE : NONE

DATE ISSUED: DECEMBER 2008

CAD DETAIL NO.:

SD320000-15.DWG

SITE SYMBOLS - CONCRETE/MASONRY



CONCRETE PLAN

SITE SYMBOLS - METALS

WELD, BASIC BACK, ARROW SIDE

WELD, BASIC FILLET, ARROW SIDE

WELD, BASIC FILLET, BOTH SIDES

WELD, SUPPLEMENTARY, ALL AROUND



GRATING, PLAN

GRATING, SECTION



CHECKER PLATE, PLAN

SITE SYMBOLS - EARTHWORK



EARTH, CRUSHED ROCK GRAVEL



EARTH, UNDISTURBED



EARTHWORK, COMPACTED FILL



SAND



EARTHWORK, GRAVEL, POROUS FILL



EROSION AND SEDIMENTATION CONTROL, FILTRATION BED



RIPRAP



DETAIL TITLE / ELECTRICAL SYMBOLS - CONCRETE/MASONARY, METALS, AND EARTHWORK

SCALE : NONE

DATE ISSUED: DECEMBER 2008

CAD DETAIL NO.:

SD320000-16.DWG

<u>SITE SYMBOLS - UTILITIES</u>

\otimes	WATER VALVE		
———D——	DRAIN LINE		
CI	PIPE LINE, CAST IRON		
———DI———	PIPE LINE, DUCTILE IRON		
SD	DRAIN LINE, STORM (ABOVE FLOOR)		
— —SD— —	DRAIN LINE, STORM (BELOW FLOOR)		
RCP	PIPE LINE, REINFORCED CONCRETE		
———A———	COMPRESSED AIR LINE		
——G——	GAS LINE		
— — —	PIPING, SCREWED GATE VALVE		
——BBD ——	BOILER BLOW DOWN LINE		
——-C——	CONDENSATE LINE		
ST	DRAIN LINE, CONDENSATE		
CR	RETURN LINE, CONDENSER WATER		
HPC	RETURN LINE, HIGH PRESSURE CONDENSATE		
—— HTWR ——	RETURN LINE, HIGH TEMPERATURE HOT WATER		
——HPS——	SUPPLY LINE, HIGH PRESSURE STEAM		
HWS	SUPPLY LINE, LOW TEMPERATURE HOT WATER		
CW	PIPING, PUMP		
——P——	POWER LINE		
—— CATV ——	CABLE TELEVISION LINE		
—— CCTV ——	CLOSED CIRCUIT TELEVISION LINE		
——F0——	FIBEROPTICS LINE		



DETAIL TITLE / ELECTRICAL SYMBOLS - UTILITIES

SCALE : NONE

DATE ISSUED: DECEMBER 2008

CAD DETAIL NO.:

SD320000-17.DWG

SITE SYMBOLS - UTILITIES

——T—— TELEPHONE LINE

W) UTILITY, WATER MANHOLE

----cw--- WATER LINE, COLD

HYDRANT, FIRE

(FH) HYDRANT PAN, FIRE

O UTILITY, UTILITY POLE

S UTILITY, SANITARY MANHOLE

© UTILITY, SANITARY CLEANOUT

(E) UTILITY, ELECTRICAL MANHOLE

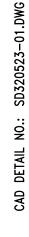
DETAIL TITLE / ELECTRICAL SYMBOLS - UTILITIES

SCALE : NONE

DATE ISSUED: DECEMBER 2008

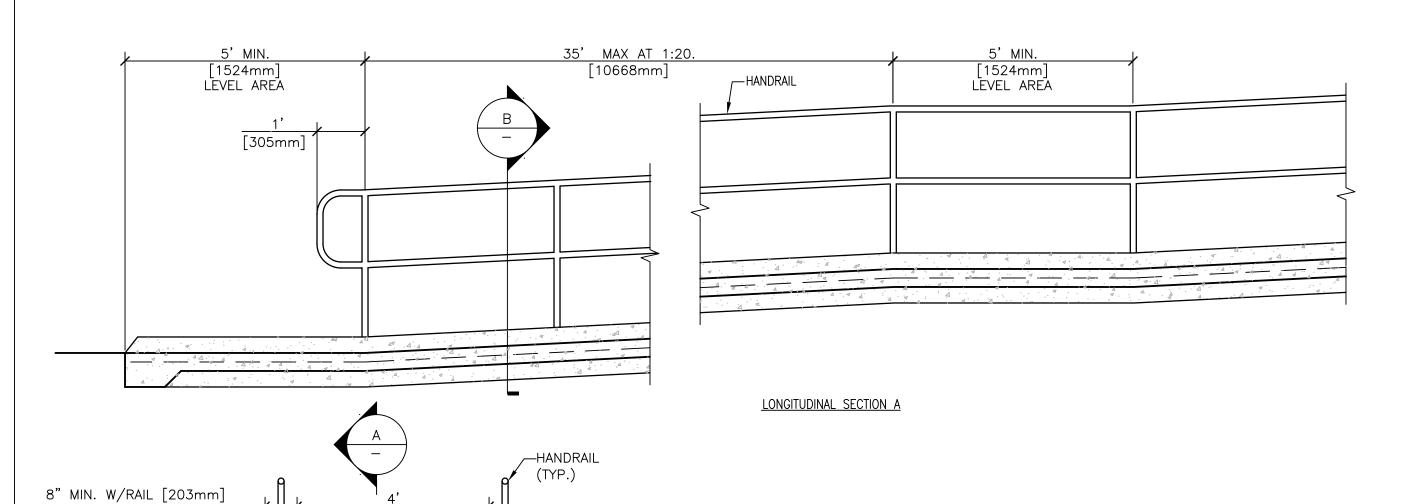
CAD DETAIL NO.:

SD320000-18.DWG



DATE ISSUED: DECEMBER 2008





NOTE:

- 1. RAMP IS REQUIRED WHERE THE WALK EXCEEDS 3%.
- 2. IF A RAMP RUN HAS A RISE GREATER THAN 6" [152mm] OR A HORIZONTAL PROJECTION GREATER THAN 72" [1829mm], THEN IT SHALL HAVE HANDRAILS ON BOTH SIDES.
- 3. MAXIMUM SLOPE OF RAMP SHALL NOT EXCEED 8.33%.
- 4. SEE ARCHITECTURAL STANDARDS FOR HANDRAIL DETAILS.
- 5. PROVIDE AN AGGREGATE BASE WHERE SUBSURFACE CONDITIONS WARRANT IT.
- 6. REFER TO PG-18-13 INDEX.

TRAVERSE SECTION B

COMPACTED

SUBGRADE -

[1219mm]

<u>2%MA</u>X.

4" MIN. W/RAIL [102mm]

(TYP.)

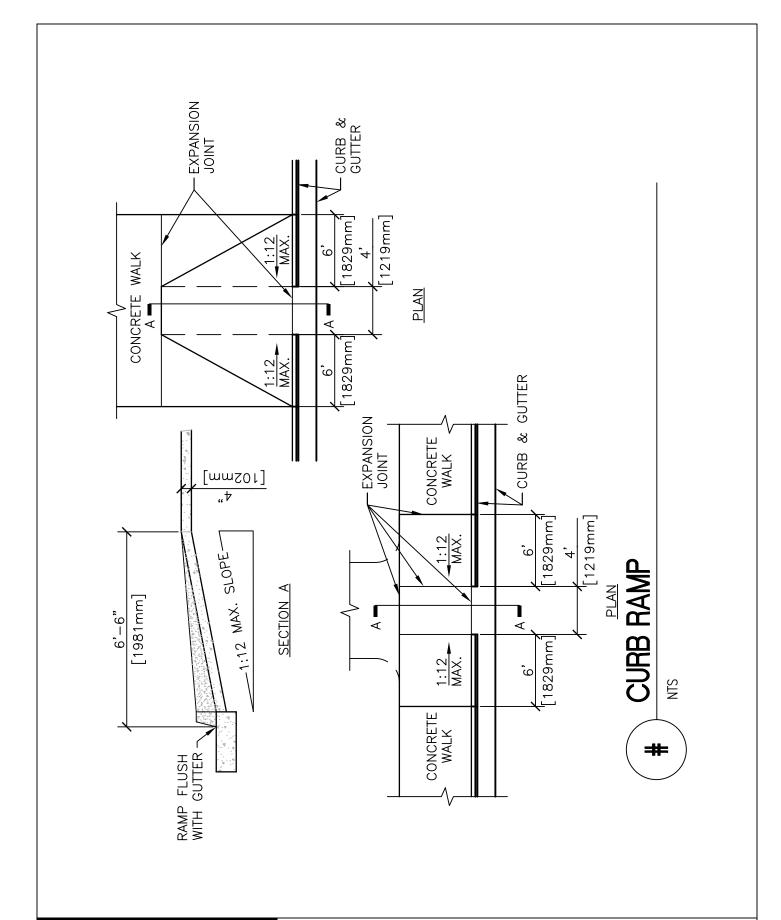


¹6"x6"xMW19xMW19

RAMP FOR DISABLED PERSONS

[152mmx152mmxMW19xMW19]

-1/2" BEVEL [13mm] (TYP.)



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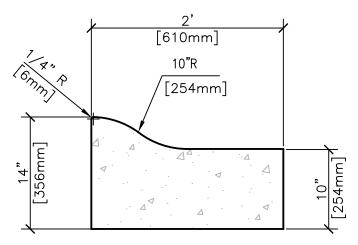
DETAIL TITLE / CURB RAMP

SCALE : NONE

DATE ISSUED: DECEMBER 2008

CAD DETAIL NO .:

SD320523-02.DWG



NOTE: CROSS SLOPE OF GUTTER SAME AS PAVEMENT.



MOUNTABLE CONCRETE CURB AND GUTTER

NTS

Department of Veterans Affairs

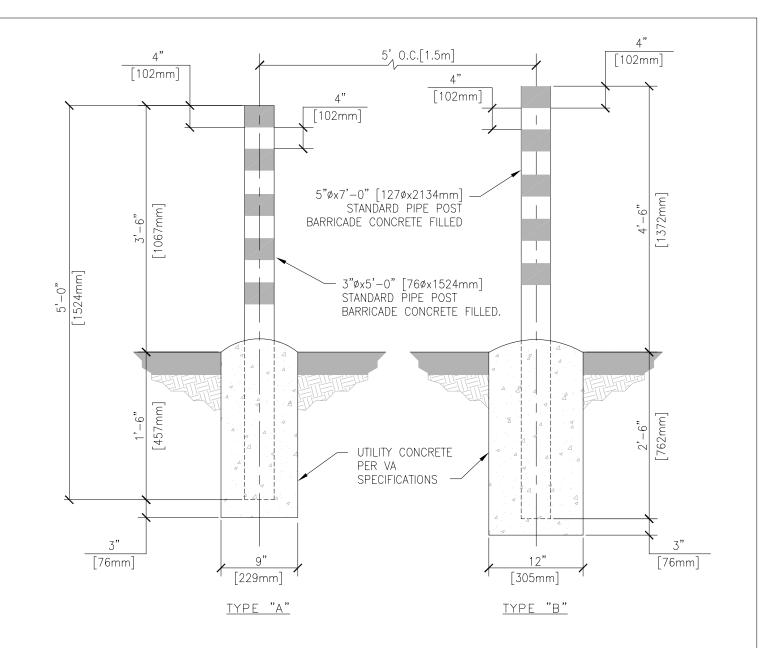
DETAIL TITLE / MOUNTABLE CONCRETE CURB AND GUTTER

SCALE : NONE

DATE ISSUED: DECEMBER 2008

CAD DETAIL NO .:

SD320523-03.DWG



NOTES:

- 1. POST BARRICADES WILL 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 WILL BE USED UNLESS OTHERWISE SPECIFIED ON THE PLANS.
- FINISH COLOR COMBINATIONS, OTHER THAN THAT SPECIFIED ABOVE, WILL BE SUBMITTED TO THE AGENCY FOR APPROVAL.



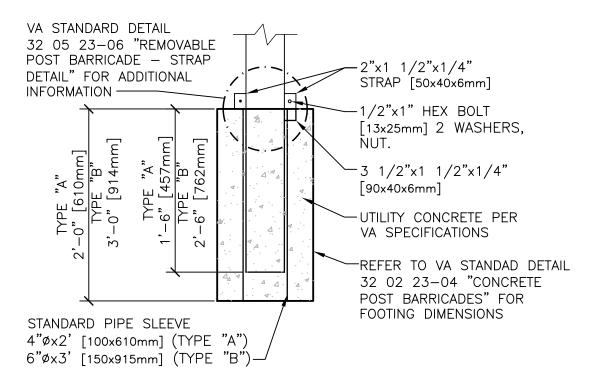


DETAIL TITLE / CONCRETE POST BARRICADES

SCALE: NONE

DATE ISSUED: OCTOBER 1, 2022

SD320523-04.DWG



NOTES:

- 1. REMOVABLE POST BARRICADE SHALL NOT BE CONCRETE FILLED.
- 2. HAND TIGHTEN BOLT & NUT USING WASHERS EACH SIDE OF STRAPS. CUT BOLT APPROX. 1/8" [6mm] FROM FACE OF NUT & PEEN EXPOSED END OF BOLT.
- 3. REFER TO VA STANDAD DETAIL 32 02 23-04 "CONCRETE POST BARRICADES" FOR POST DETAILS.



REMOVABLE POST BARRICADE

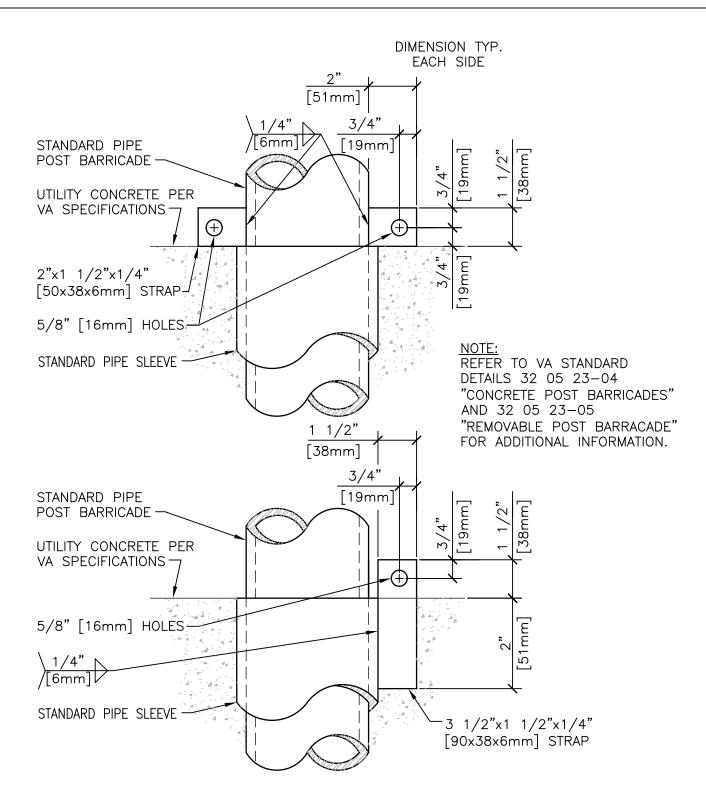
NTS



DETAIL TITLE / REMOVABLE POST BARRICADE

SCALE : NONE

DATE ISSUED: DECEMBER 2008 CAD DETAIL NO.: SD320523-05.DWG





REMOVABLE POST BARRICADE - STRAP DETAIL

NTS



DETAIL TITLE / REMOVABLE POST BARRICADE - STRAP DETAIL

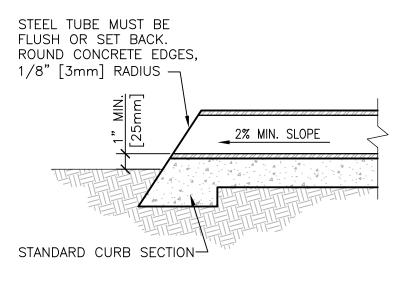
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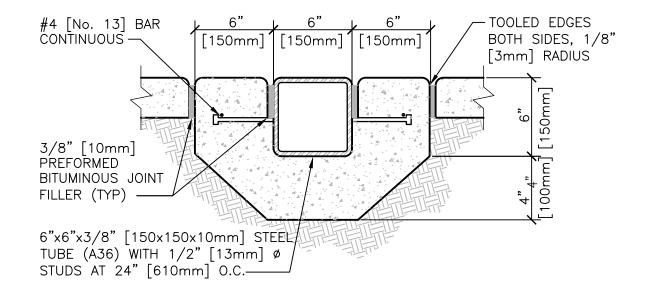
TITLE

DECEMBER 2008

DATE ISSUED:



3/8" [10mm] PREFORMED



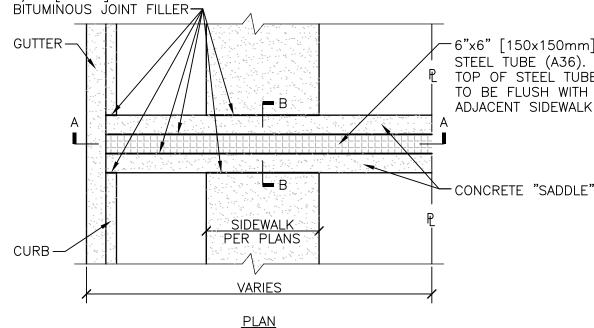
SECTION B-B

SECTION A-A

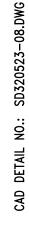
·6"x6" [150x150mm] STEEL TUBE (A36). TOP OF STEEL TUBE

TO BE FLUSH WITH ADJACENT SIDEWALK NOTE:

- 1. EXISTING CURB AND/OR SIDEWALK SHALL BE SAWCUT TO ITS FULL DEPTH, REMOVED AND DISPOSED OF AS PART OF SIDEWALK SUCPPER INSTALLATION.
- 2. STEEL TUBE SHALL BE GIVEN ONE SHOP COAT OF PAINT NO. 1 PER VA SPECIFICATION. PAINT EXPOSED METAL WITH TWO COATS OF SSPC PAINT NO. 5 PER VA SPECIFICATION.



SIDEWALK SCUPPER - TYPE 1



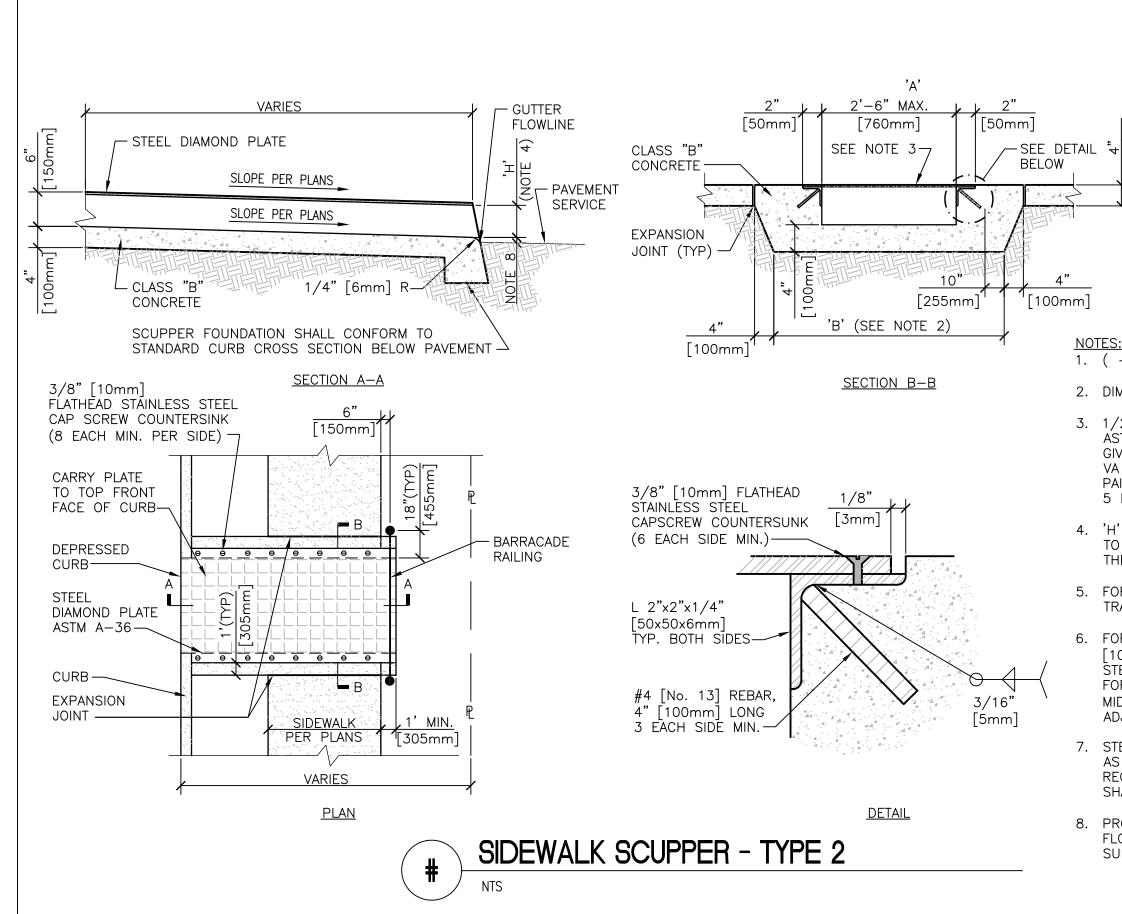
:NONE SCALE

DECEMBER 2008

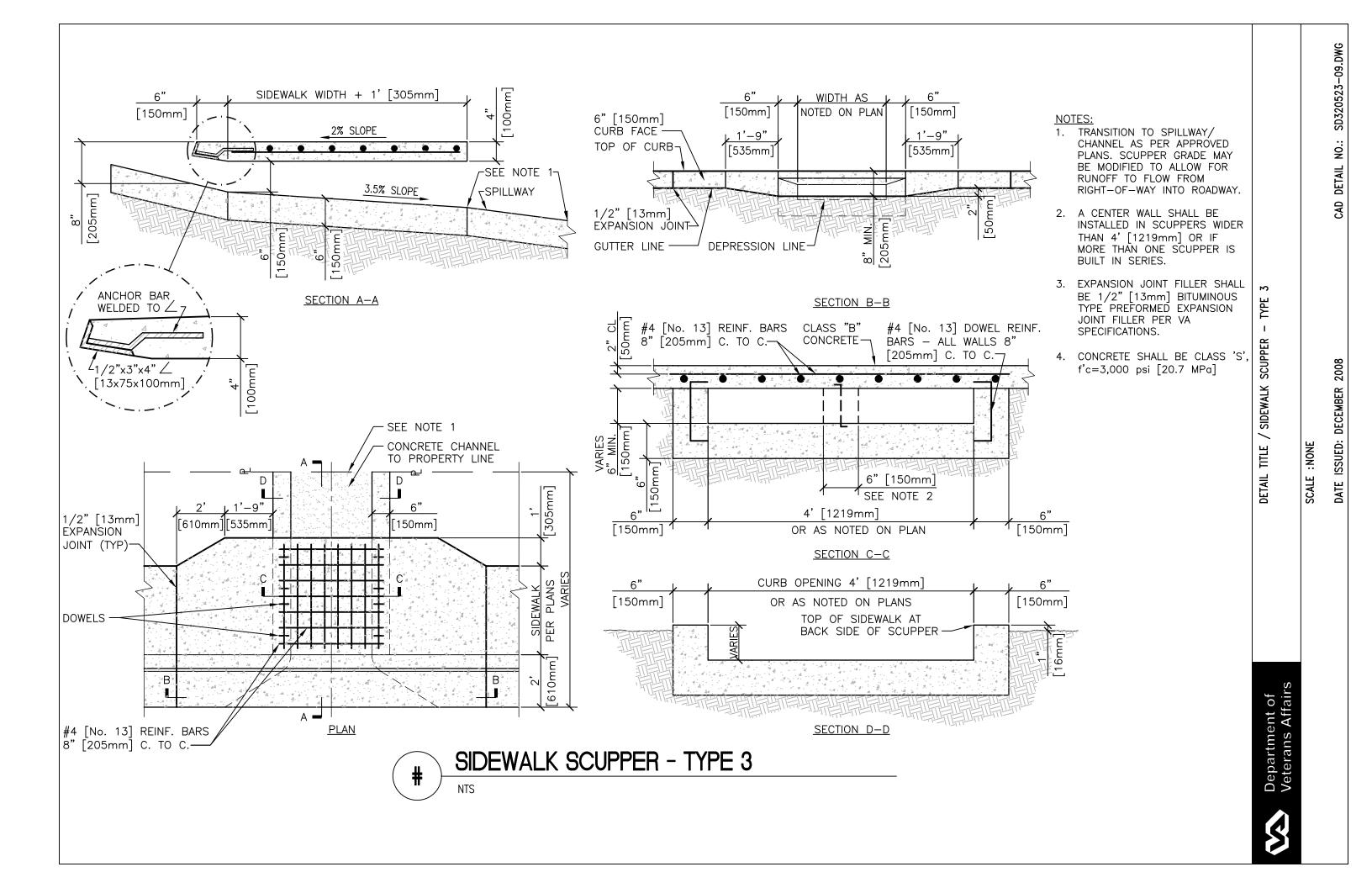
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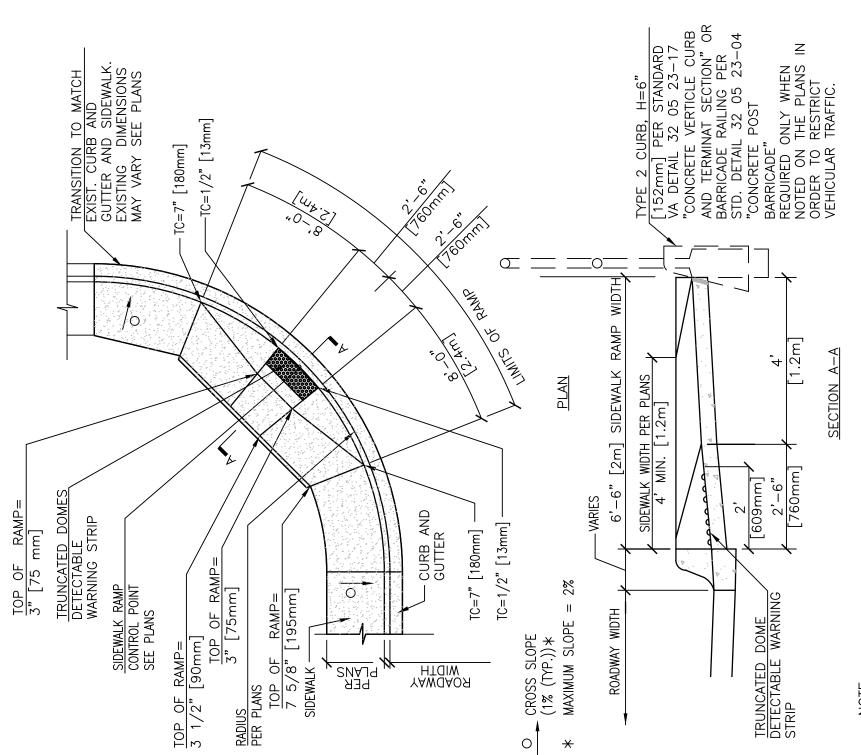
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- 1. (\longrightarrow) INDICATES DIRECTION OF FLOW.
- 2. DIMENSION 'B' EQUALS 'A'+1' [305mm].
- 3. 1/2" [13mm] THICK STEEL DIAMOND PLATE ASTM A-36. STEEL DIAMOND PLATE SHALL BE GIVEN ONE SHOP COAT OF PAINT NO.1 PER VA SPECIFICATIONS. EXPOSED METAL SHALL BE PAINTED WITH TWO COATS OF SSPC PAINT NO. 5 PER VA SPECIFICATIONS.
- 4. 'H' EQUALS CURB FACE HEIGHT. DIMENSION TO BE NOTED ON PLANS OR ESTABLISHED IN THE FIELD.
- 5. FOR CURB AND GUTTER, USE 2' [610mm] TRANSITIONS TO VERTICAL CURB.
- 6. FOR MULTIPLE SCUPPERS PROVIDE 4" [100mm] BETWEEN ADJACENT PANELS OF STEEL DIAMOND PLATE, INTERMEDIATE POSTS FOR BARRICADE RAILINGS SHALL BE PLACED MIDWAY IN 4" [100mm] AREA BETWEEN ADJACENT PANĒLS.
- 7. STEEL DIAMOND PLATE SHALL BE DELIVERED AS ONE PIECE, CONFORMING TO THE REQUIRED SCUPPER DIMENSIONS. PLATES SHALL NOT BE SPLICED.
- PROVIDE A MIN. 1" [25mm] LIP BETWEEN FLOW LINE OF SCUPPER AND PAVEMENT SURFACE.





NOTE:

- - 7
- Б.
- ON THE PLANS IN TOP OF CURB (TC) AND TOP OF RAMP ELEVATIONS SHOWN ARE IN RELATION TO THE GUTTER AND ARE LOCATED RADIALLY. GUTTER = 0"

 SEE STANDARD VA DETAIL 32 05 23–18 "CONCRETE SIDEWALK" FOR JOINT REQUIREMENTS.

 WHEN CURB HEIGHTS OF GREATER THAN 7" [180mm] ARE SHOWN ON PLANS, SEE PI AND ADA REQUIREMENTS.

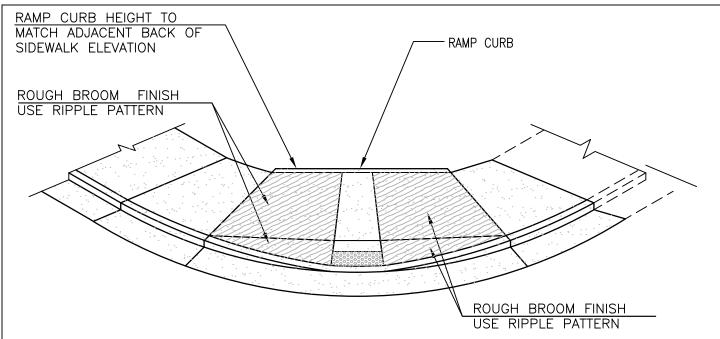
 LANDING RAMP AREA TO BE STANDARD ON ALL PROJECTS. TYPE 2 CURB WITH 6"

 [152mm] REVEAL OR BARRICADE RAILING REQUIRED ONLY WHEN NOTED ON THE PLAN ORDER TO RESTRICT VEHICULAR TRAFFIC.

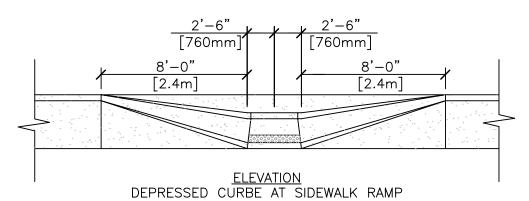


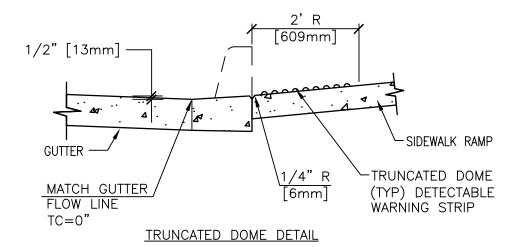
CURB ACCESS RAMP

NTS



PERSPECTIVE







CURB ACCESS RAMP

NTS



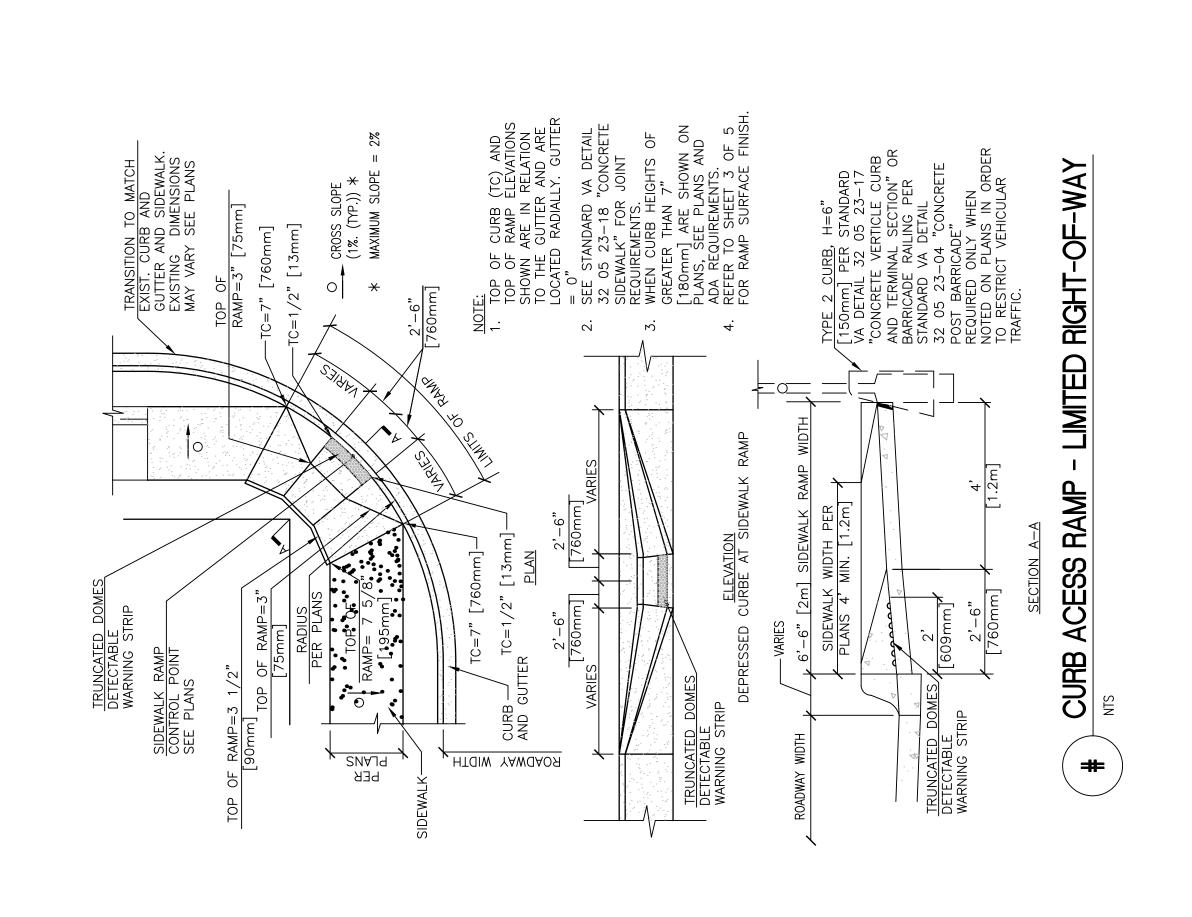
DETAIL TITLE / CURB ACCESS RAMP

SCALE : NONE

DATE ISSUED: DECEMBER 2008

CAD DETAIL NO.:

SD320523-11.DWG



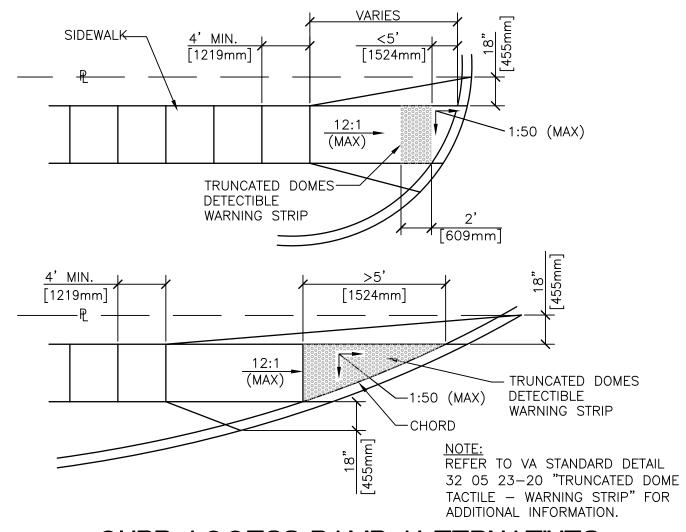
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DETAIL TITLE / CURB ACCESS RAMP LIMITED RIGHT-OF-WAY

SCALE : NONE

DATE ISSUED: DECEMBER 2008

CAD DETAIL NO.: SD320523-12.DWG





CURB ACCESS RAMP ALTERNATIVES

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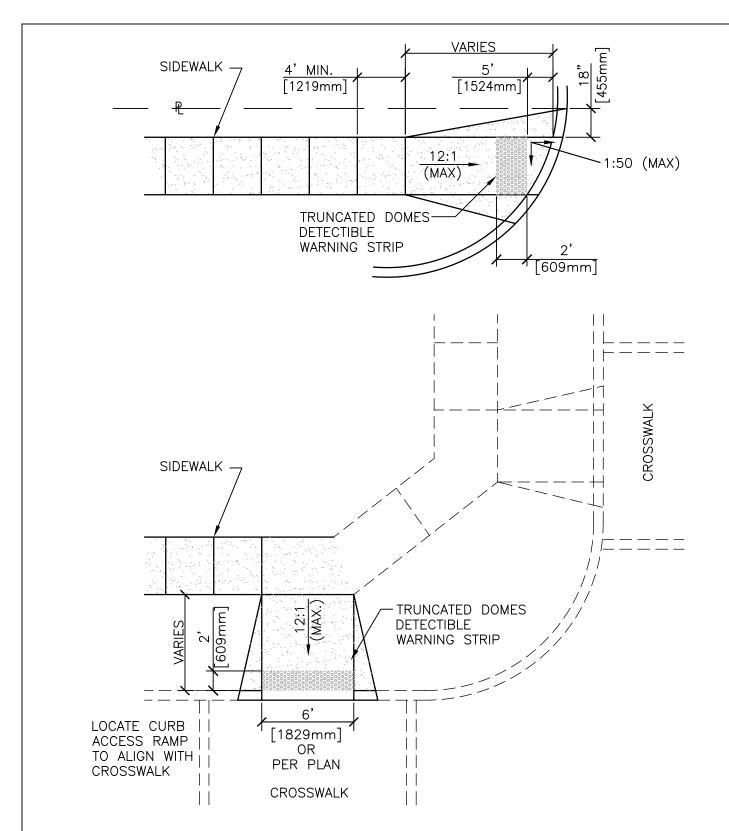
DETAIL TITLE / CONCRETE HEADER

SCALE : NONE

DATE ISSUED: DECEMBER 2008

CAD DETAIL NO.:

SD320523-13.DWG





CURB ACCESS RAMP ALTERNATIVES

NTS



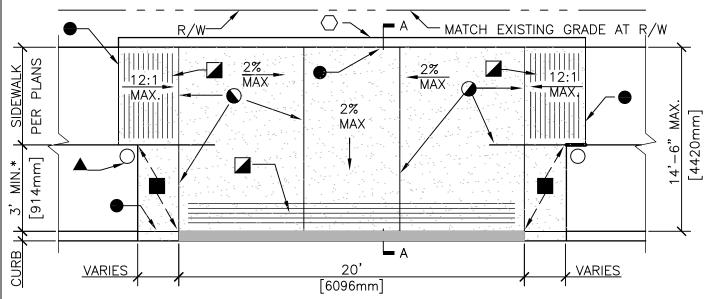
DETAIL TITLE / CURB ACCESS RAMP ALTERNATIVES

SCALE : NONE

DATE ISSUED: DECEMBER 2008

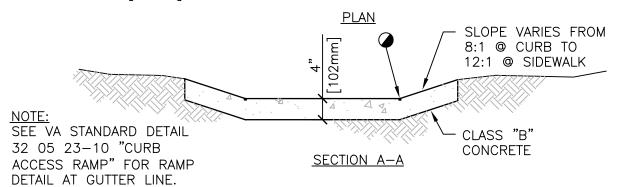
CAD DETAIL NO.:

SD320523-14.DWG



- * MAY BE REDUCED TO 1' [305mm] DUE TO R.O.W. CONSTRAINTS. HOWEVER, IF DISTANCE BETWEEN BACK OF CURB AND BACK OF SIDEWALK IS LESS THAN 7' [2134mm], THE DISABLED SPACE SHALL NOT BE DESIGNATED "VAN ACCESSIBLE".
- WARP TO MATCH
- TACTILE GROOVES. PLACE GROOVES IN CONC. 1" [25mm] APART, 1/4" [6mm] WIDE, 1/8" [3mm] DEEP. GROOVES MAY BE SAWCUT OR TOOLED.
- TYPE 'A' POST BARRICADE PER VA STANDARD DETAIL 32 05 23-04 "CONCRETE POST BARRICADE". FINISH WITH BLUE ENAMEL AND 4" [100mm] WHITE REFLECTORIZED TAPE. THE ENGINEER SHALL APPROVE THE SHADE OF BLUE ENAMEL PRIOR TO USE. FACE OF POST BARRICADE SHALL BE 2" [50mm] FROM EDGE OF CONCRETE.

- 1/2" [13mm] BITUMINOUS JOINT FILLER.
 - NOTE:DEPRESSED CURB IN RAMP
 AREA SHALL BE PLACED
 MONOLITHIC WITH RAMP
- △ TRUNCATED DOMES DETECTABLE WARNING STRIP
- ○6" [152mm] REVEAL VERTICAL
 CURB PER VA STANDARD DETAIL
 32 05 23-17 "CONCRETE CURB AND
 TERMINAL SECTION" CURB MAY BE
 ELIMINATED IN CENTER 4' [1219mm]
 IF APPROVED BY ENGINEER



VAN ACCESSIBLE CURB ACCESS RAMP AT DISABLED PARKING STALLS



NTS

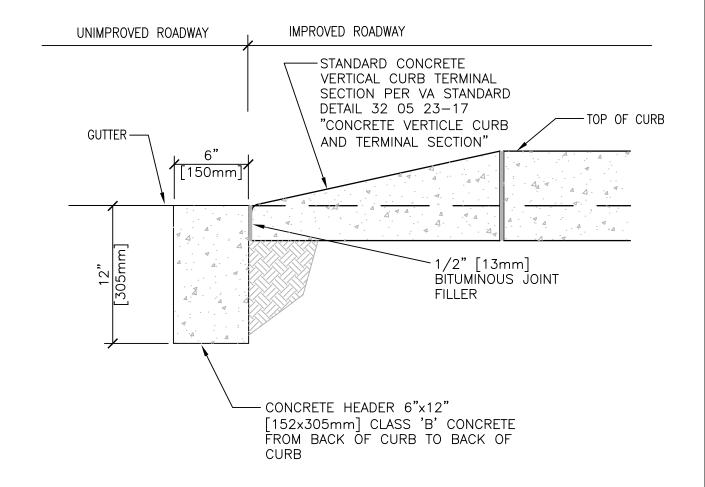
Department of Veterans Affairs

DETAIL TITLE / CURB ACCESS RAMP - AT DISABLED PARKING STALLS

SCALE : NONE

DATE ISSUED: DECEMBER 2008 CAD DETA

CAD DETAIL NO.: SD320523-15.DWG





CONCRETE HEADER

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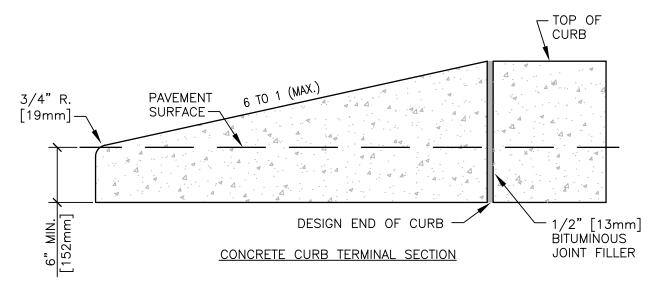
DETAIL TITLE / CONCRETE HEADER

SCALE : NONE

DATE ISSUED: DECEMBER 2008

CAD DETAIL NO.:

SD320523-16.DWG



NOTES:

- 1. ALL CONCRETE CURBS AND TRANSITIONS, SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI.
- 2. MAXIMUM SPACING ON SCORED JOINTS SHALL BE 15' [4572mm].
- 1:4 CURB L LROADWAY & 1/2" [13mm] THICK EXPANSION JOINTS SHALL BE 3. BATTER **PAVEMENT** LOCATED AT TANGENT POINTS IN CURB RETURNS, **WIDTH** TRANSITIONS, AND AT A MAXIMUM OF 60' [1828.8cm] 6" EXPANSION MATERIAL SHALL ALSO BE INTERVALS. [152mm] 2" [51mm] R. PLACED BETWEEN CURBS AND ADJACENT STRUCTURES, SIDEWALKS, DRIVEWAYS AND CURB ACCESS RAMPS. THE 1/2" [13mm] JOINT FILLER SHALL EXTEND THE FULL DEPTH OF THE CONCRETE. ֡֟֡<u>֚</u> [356mm] |NOTE 7 406mm] NOTE 8 CONCRETE SHALL BE FINISHED WITH A STEEL TROWEL و, FOLLOWED BY BRUSHING WITH A FINE BRUSH ALONG THE LENGTH OF THE CURB OR CURB AND GUTTER. 5. SINGLE CURB MAY BE CONSTRUCTED BY THE USE OF FORMS OR MAY BE SLIP FORMED. 9 1/2" H=DESIGN REVEAL [241mm] ALL EXPOSED EDGES AND HAND TOOLED JOINTS SHALL
 - BE FINISHED WITH A TOOL HAVING A 1/4" [6mm] RADIUS UNLESS A LARGER RADIUS IS INDICATED BY THE APPLICABLE STANDARD DETAIL OR PROJECT PLANS.
 - FOR REVEALS OF 6" [152mm] TO LESS THAN 8" [203mm].
 - 8. FOR REVEALS OF 8" [203mm] TO 10" [254mm].



CONCRETE CURB AND TERMINAL SECTION

NTS

NOTE 7

10"

[254mm]

NOTE 8

CONCRETE VERTICAL CURB

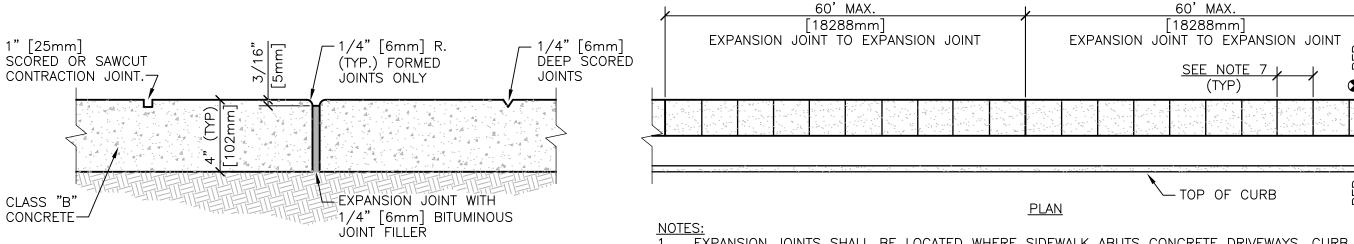


DETAIL TITLE / CONCRETE CURB AND TERMINAL SECTION

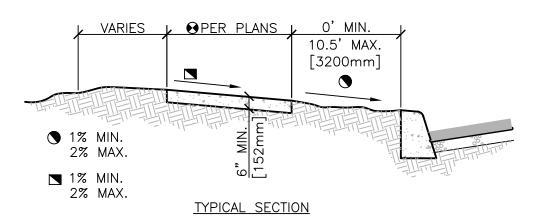
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DATE ISSUED: DECEMBER 2008 CAD DETAIL NO.: SD320523-17.DWG

ISSUED:



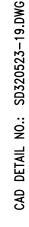
EXPANSION AND SCORED JOINT DETAIL



- EXPANSION JOINTS SHALL BE LOCATED WHERE SIDEWALK ABUTS CONCRETE DRIVEWAYS, CURB OR OTHER ADJACENT STRUCTURES.
- 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.
- FORMED CONTRACTION JOINTS SHALL BE FINISHED WITH A TOOL HAVING A 1/4" [6mm] RADIUS.
- SCORED JOINTS SHALL BE 1/4" [6mm] DEEP AND PLACED AT THE SPACING INDICATED FOR THE WIDTH OF SIDEWALK OR MATCH SCORED JOINTS OF ADJACENT CURB.
- 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' [1829mm] OR EQUAL TO SIDEWALK WIDTH.



CONCRETE SIDEWALK

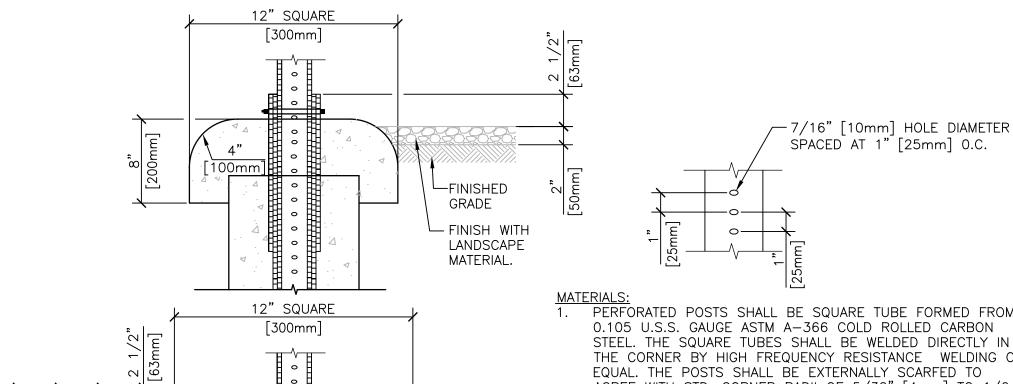


DECEMBER

ISSUED:

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EXPANSION

AREAS.

MATERIAL TYP.

- PERFORATED POSTS SHALL BE SQUARE TUBE FORMED FROM 0.105 U.S.S. GAUGE ASTM A-366 COLD ROLLED CARBON STEEL. THE SQUARE TUBES SHALL BE WELDED DIRECTLY IN THE CORNER BY HIGH FREQUENCY RESISTANCE WELDING OR EQUAL. THE POSTS SHALL BE EXTERNALLY SCARFED TO AGREE WITH STD. CORNER RADII OF 5/32" [4mm] TO 1/64" [.3mm].
- IN CONCRETE 2. PERFORATED POSTS SHALL BE GALVANIZED TO CONFORM TO ASTM A-525. COATING DESIGNATION G-90.
 - ALL HARDWARE SHALL CONFORM TO ASTM A-307 CLASS A.
 - ALL HARDWARE SHALL BE GALVANIZED TO CONFORM TO ASTM A-153 OR CADMIUM PLATED TO CONFORM TO ASTM A-165.
 - 5. ALL CONCRETE SHALL BE 2500 PSI.

NOTES:

- FOUNDATION WILL BE CONSTRUCTED WITH 1 3/4"x1 3/4" STARTER SIGN POST. STARTER SIGN POST SHALL BE REMOVED AFTER CONCRETE HAS SET AND EXPOSED SQUARE TUBING WRAPPED AND SEALED WITH DUCT TAPE.
- FOUNDATION LOCATED 1' FROM EDGE OF PAVEMENT.
- FOUNDATION LOCATION TO BE APPROVED BY ENGINEERING.
- POST FOUNDATIONS SHALL BE PERPENDICULAR TO THE PAVED SURFACE.
- BOLT WITH NUT AND LOCK WASHER TO BE 7/16"x3" GALVANIZED.
- REFER TO SIGN POST LOCATION DETAIL, DETAIL 4, THIS SHEET FOR INSTALLATION LOCATION.



2 1/4"x2 1/4"

1 3/4"x1 3/4"

PERFORATED POST

PERFORATED POST

2"x2" [50x50mm]

PERFORATED POST

[57x57mm]

[40x40mm]

Ŋ

SIGN POST DETAIL SQUARE TUBE FOUNDATION

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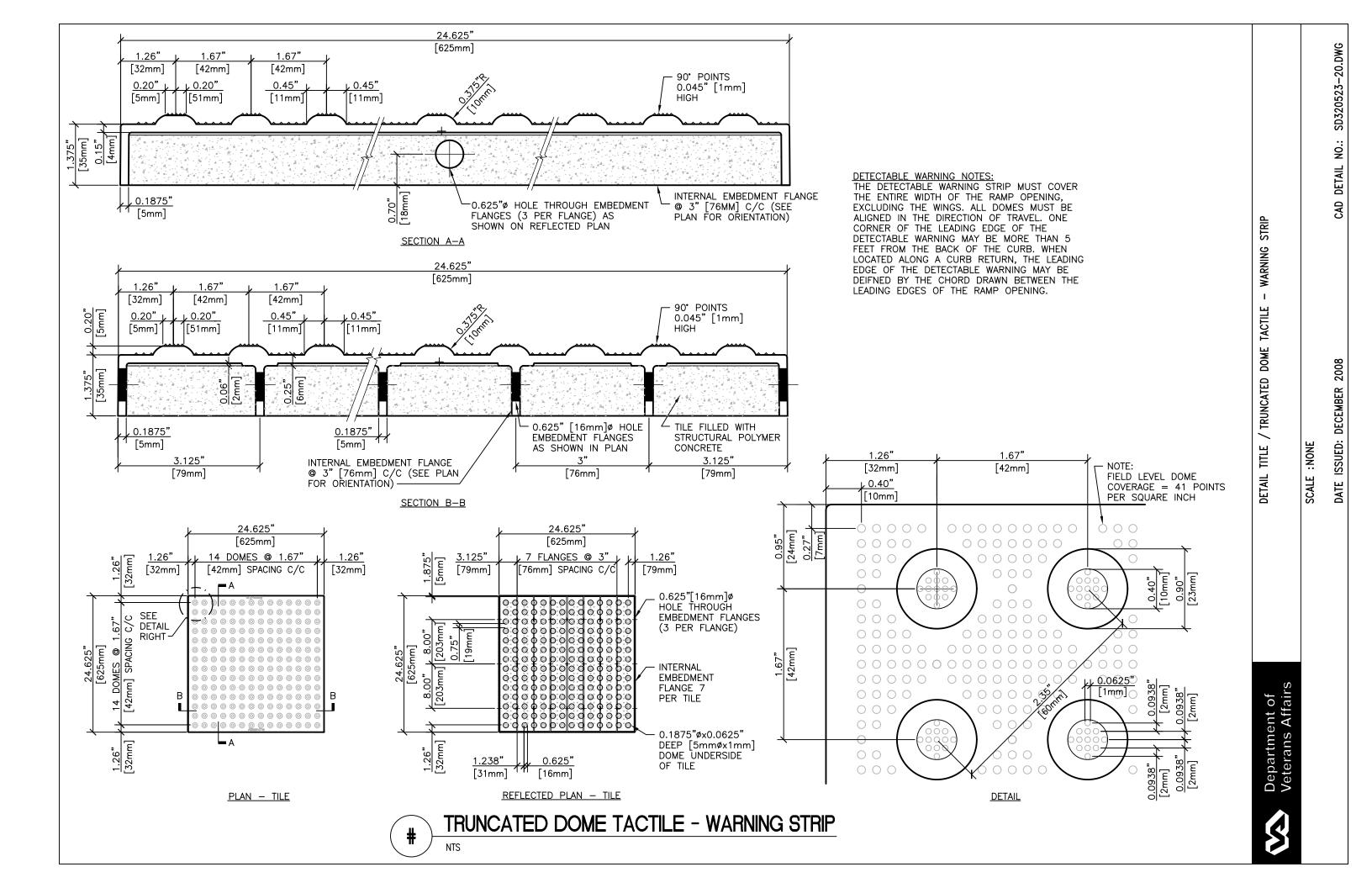
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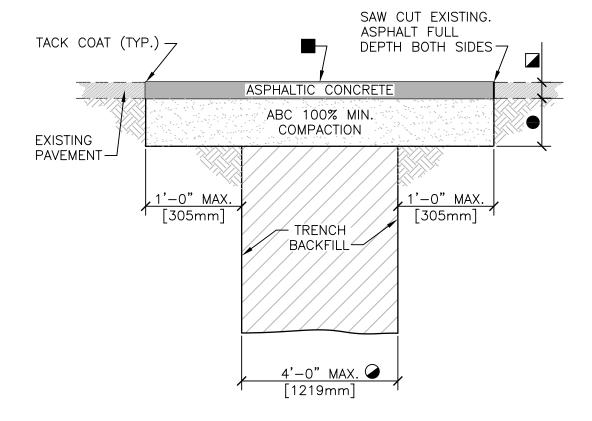
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8" SQUARE





- FOR TRENCH WIDTHS EXCEEDING 4' [1219mm] REFER TO VA STANDARD DETAIL 32 12 16-02 "TYPE 2 UTILITY TRENCH PATCH". FOR TRENCH WHERE PORTLAND CEMENT CONCRETE (PCC) PAVEMENT EXISTS, REFER TO 32 12 16-03 "TYPE 3 UTILITY TRENCH PATCH".
- 2" [50mm] MINIMUM OR THICKNESS OF EXISTING PAVEMENT WHICHEVER IS GREATER.
- BITUMINOUS SURFACE TREATMENT (CHIPSEAL) REQUIRED ONLY FOR LONGITUDINAL TRENCHES WITH WIDTHS GREATER THAN 6' [1829mm].
- 4" [100mm] MINIMUM ABC OR THICKNESS OF EXISTING GRANULAR BASE COURSE MATERIALS (E.G. ABC & SELECT MATERIAL) WHICHEVER IS GREATER.

REFER TO VA STANDARD DETAIL 32 12 16-04 "UTILITY TRENCH PAVEMENT PATCH NOTES" FOR ADDITIONAL INFORMATION.



TYPE 1 UTILITY TRENCH PATCH

NTS



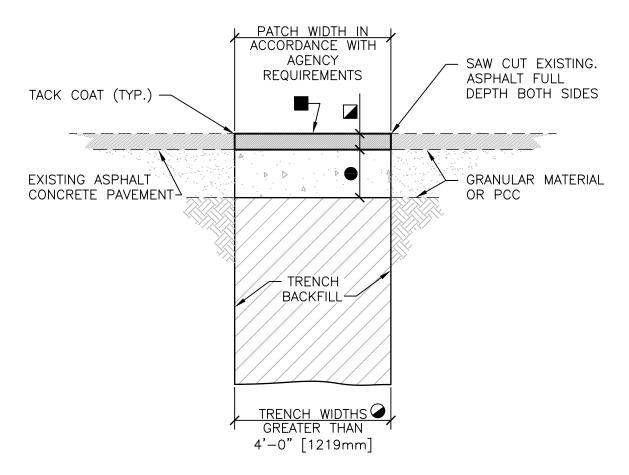
DETAIL TITLE / TYPE 1 UTILITY TRENCH PATCH

SCALE : NONE

DATE ISSUED: DECEMBER 2008

CAD DETAIL NO.:

SD321216-01.DWG



- FOR TRENCH WIDTHS 4' [1219mm] OR LESS REFER TO VA STANDARD DETAIL 32 12 16-01 "TYPE 1 UTILITY TRENCH PATCH". FOR TRENCH WHERE PORTLAND CEMENT CONCRETE (PCC) PAVEMENT EXISTS, REFER TO 32 12 16-03 "TYPE 3 UTILITY TRENCH PATCH".
- 2" [50mm] MINIMUM OR THICKNESS OF EXISTING PAVEMENT WHICHEVER IS GREATER.
- BITUMINOUS SURFACE TREATMENT (CHIPSEAL) REQUIRED ONLY FOR LONGITUDINAL TRENCHES WITH WIDTHS GREATER THAN 6' [1829mm].
- 4" [100mm] MINIMUM ABC OR THICKNESS OF EXISTING GRANULAR BASE COURSE MATERIALS (E.G. ABC & SELECT MATERIAL) WHICHEVER IS GREATER. PORTLAND CEMENT CONCRETE (PCC) THICKNESS EQUAL TO EXISTING.

REFER TO VA STANDARD DETAIL 32 12 16-04 "UTILITY TRENCH PAVEMENT PATCH NOTES" FOR ADDITIONAL INFORMATION.



TYPE 2 UTILITY TRENCH PATCH

NTS



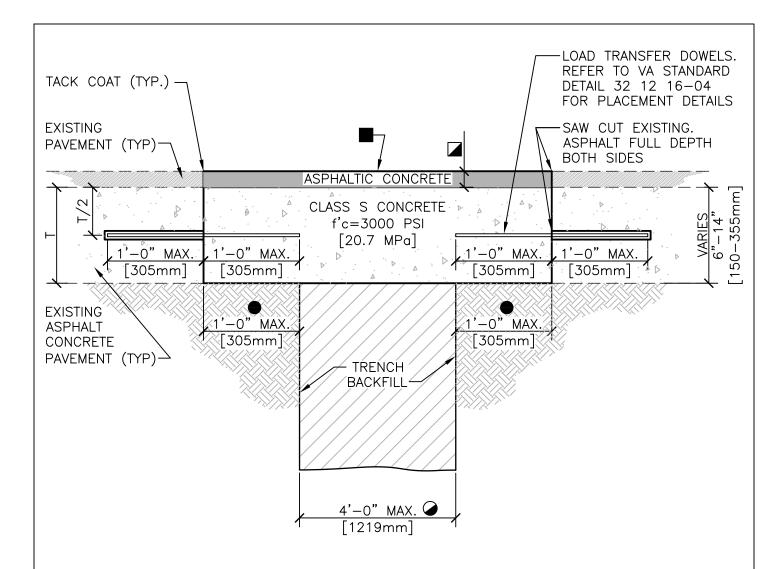
DETAIL TITLE / TYPE 2 UTILITY TRENCH PATCH

SCALE : NONE

DATE ISSUED: DECEMBER 2008

CAD DETAIL NO.:

SD321216-02.DWG



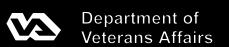
- FOR TRENCH WIDTHS EXCEEDING 4' [1219mm] DELETE LOAD TRANSFER DOWELS.
- 2" [50mm] MINIMUM OR THICKNESS OF EXISTING PAVEMENT WHICHEVER IS GREATER.
- BITUMINOUS SURFACE TREATMENT (CHIPSEAL) REQUIRED ONLY FOR LONGITUDINAL TRENCHES WITH WIDTHS GREATER THAN 6' [1829mm].
- REFER TO NOTE 13 ON VA STANDARD DETAIL 32 12 16-04 "UTILITY TRENCH PAVEMENT PATCH NOTES".

REFER TO VA STANDARD DETAIL 32 12 16-04 "UTILITY TRENCH PAVEMENT PATCH NOTES" FOR ADDITIONAL INFORMATION.



TYPE 3 UTILITY TRENCH PATCH

NTS



DETAIL TITLE / TYPE 3 UTILITY TRENCH PATCH

SCALE : NONE

DATE ISSUED: DECEMBER 2008

CAD DETAIL NO.:

SD321216-03.DWG

GENERAL NOTES

- 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 [305mm] ABOVE THE TOP OF PIPE AND SHALL BE PER SECTION XXX.
- 3. BACKFILL COMPACTION REQUIREMENTS SHALL BE PER SECTION XXX.
- 4. THE 1 FOOT [305mm] TRENCH "SHOULDER" AREAS SHALL BE DELETED FOR TYPE 2 TRENCHES.
- ABC SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION XXX.
- 6. PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION XXX.
- 7. ASPHALTIC TACK MATERIAL SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION XXX.
- 8. ASPHALTIC CONCRETE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION XXX FOR THE TYPE SPECIFIED.
- 9. BITUMINOUS SURFACE TREATMENT (CHIP SEAL) SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION XXX FOR THE TYPE SPECIFIED.
- 10. LOAD TRANSFER DOWELS FOR JOINTS TRANSVERSE TO THE ROADWAY CENTERLINE SHALL BE SMOOTH STEEL DOWELS IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION XXX. DOWELS SHALL BE SIZED AND SPACED AS FOLLOWS:

PCCP THICKNESS	<u>DOWEL SIZE</u>	DOWEL LENGTH	DOWEL SPACING
6" [150mm]	#5 [No. 16]	12" [305mm]	18" [455mm]
7" [180mm]	#6 [No. 19]	15" [380mm]	15" [380mm]
8" [180mm]	#8 [No. 19]	15" [380mm]	12" [305mm]
10" [180mm]	#10 [No. 19]	15" [380mm]	12" [305mm]

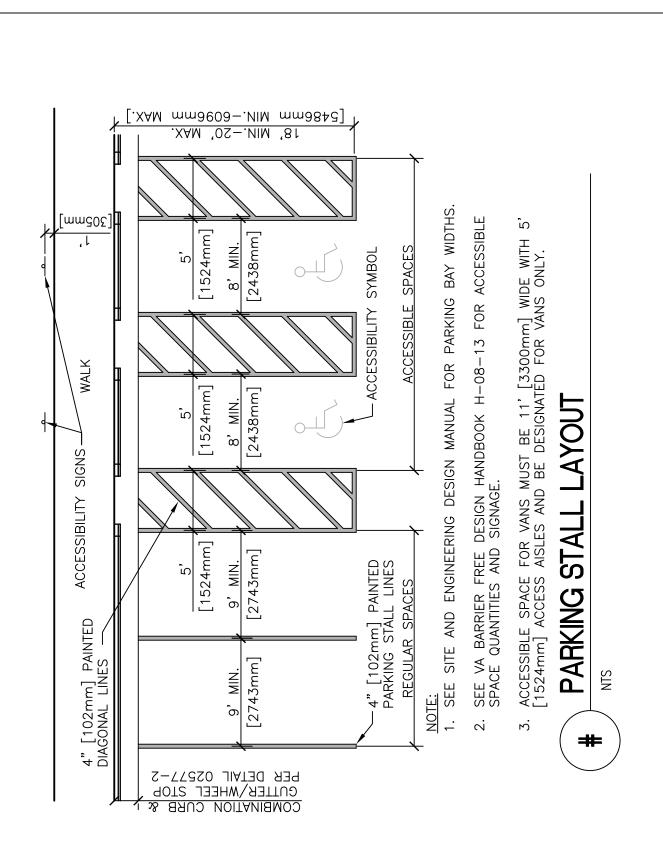
- 11. DEFORMED TIE BARS SHALL BE USED IN TRENCH PATCHES LONGITUDINAL TO THE ROADWAY CENTERLINE WHEN THE TRENCH LENGTH IS GREATER THAN 50 FEET [15240mm]. TIE BARS SHALL BE 24 INCHES [610mm] LONG. DEFORMED #4 [No. 13] BARS FOR PCCP LESS THAN 8 INCHES [205mm] THICK AND #5 [No. 16] BARS IF 8 INCHES [205mm] THICK OR MORE. TIE BARS SHALL BE PLACED 30 INCHES [760mm] CENTER—TO—CENTER.
- 12. HOLES SHALL BE DRILLED 1 FOOT [305mm] INTO THE EXISTING SLAB FOR TIE BARS AND 7 INCHES [180mm] FOR DOWELS. HOLES SHALL BE OF A DIAMETER SUFFICIENT TO ACCOMMODATE THE TIE BAR ANCHORAGE OR DOWEL CAP. TIE BARS SHALL BE ANCHORED WITH AN APPROVED HIGH VISCOSITY EPOXY.
- 13. IF THE CONCRETE SLAB REMAINING NEXT TO A LONGITUDINAL OR TRANSVERSE JOINT IS LESS THAN 6 FEET [1829mm] AT ITS NARROWEST WIDTH, REMOVE AND REPLACE THE EXISTING CONCRETE TO THE JOINT.



DETAIL TITLE / UTILITY TRENCH PATCH NOTES

SCALE : NONE

DATE ISSUED: DECEMBER 2008 CAD DETAIL NO.: SD321216-04.DWG

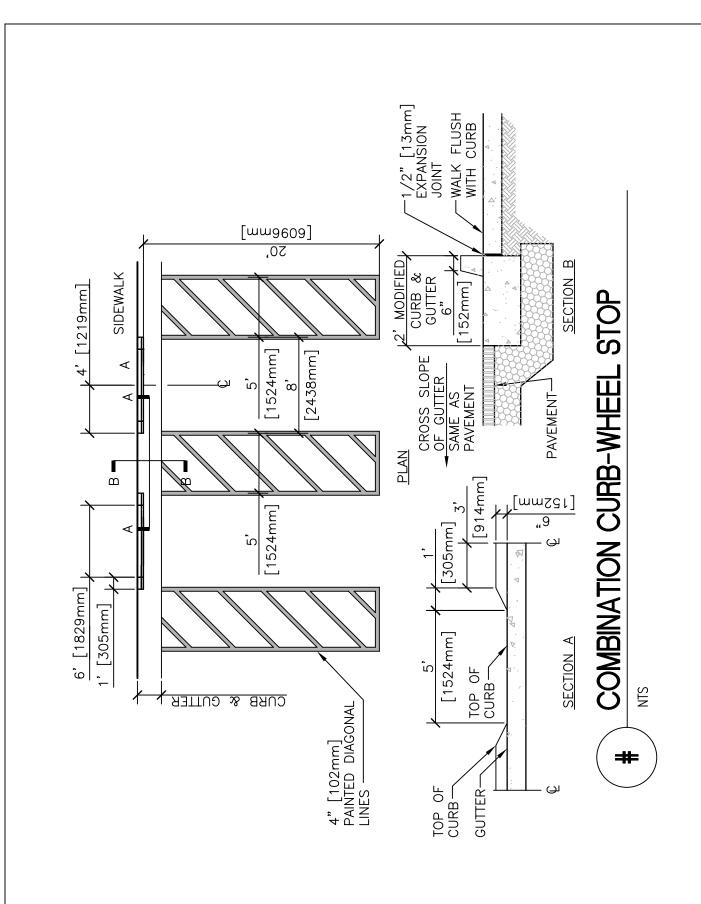




DETAIL TITLE / PARKING STALL LAYOUT

SCALE : NONE

DATE ISSUED: DECEMBER 2008 CAD DETAIL NO.: SD321723-01.DWG



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DETAIL TITLE / COMBINATION CURB-WHEEL STOP

SCALE : NONE

DATE ISSUED: DECEMBER 2008 CAD DETAIL NO.: SD321723-02.DWG