

**GENERAL**

1. ALL QUANTITIES ARE CONSIDERED APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY.
2. THE CONTRACTOR SHALL INCLUDE ALL MATERIALS, TOOLS, EQUIPMENT, LABOR AND APPURTENANT ITEMS TO COMPLETE THE WORK WITHIN THE BID PRICE.
3. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE SITE PRIOR TO BIDDING AND CONSTRUCTION.
4. LEGAL LOAD LIMIT REQUIREMENTS SHALL BE ENFORCED ON ALL STATE HIGHWAYS, CITY STREETS AND COUNTY ROADS.
5. ALL EARTHWORK, CONCRETE, AND ASPHALT WORK TO MEET MDT STANDARDS.
6. ALL SITE WORK MUST BE IN COMPLIANCE WITH CURRENT MONTANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
7. ALL CONCRETE AND ASPHALT WORK MUST BE IN ACCORDANCE WITH PROJECT GEOTECHNICAL REPORT, TERRACON FEBRUARY 7, 2019.

**SAFETY**

1. GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR DESIGNING AND CONSTRUCTING STABLE TEMPORARY EXCAVATIONS AND SHOULD SHORE, SLOPE OR BENCH THE SIDES OF THE EXCAVATIONS, AS REQUIRED, TO MAINTAIN STABILITY OF BOTH THE EXCAVATION SIDES AND BOTTOM. ALL EXCAVATIONS MUST COMPLY WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS, INCLUDING THE CURRENT OSHA EXCAVATION AND TRENCH SAFETY STANDARDS. CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR, WHO MUST ALSO BE SOLELY RESPONSIBLE FOR THE MEANS, METHODS AND SEQUENCING OF CONSTRUCTION OPERATIONS. UNDER NO CIRCUMSTANCES SHOULD THE INFORMATION PROVIDED BE INTERPRETED TO MEAN THAT THE COR IS ASSUMING RESPONSIBILITY FOR CONSTRUCTION SAFETY OF THE CONTRACTOR'S ACTIVITIES. SUCH RESPONSIBILITY IS NOT BEING IMPLIED AND WILL NOT BE INFERRED.
2. EXCAVATION AND SLOPES: IN NO CASE SHOULD SLOPE HEIGHT, SLOPE INCLINATION, OR EXCAVATION DEPTH, INCLUDING UTILITY TRENCH EXCAVATION DEPTH, EXCEED THOSE SPECIFIED IN LOCAL STATE AND FEDERAL SAFETY REGULATIONS. SPECIFICALLY, THE CURRENT OSHA HEALTH AND SAFETY STANDARDS FOR EXCAVATIONS, 29 CFR PART 1926 MUST BE FOLLOWED. IT IS THE VHA COR'S UNDERSTANDING THAT THESE REGULATIONS ARE BEING STRICTLY ENFORCED AND IF THEY ARE NOT CLOSELY FOLLOWED, THE CONTRACTOR COULD BE LIABLE FOR SUBSTANTIAL PENALTIES.
3. CONTRACTOR MUST CLEARLY MARK AND/OR FENCE ALL OBSTRUCTIONS, EXCAVATIONS AND CONSTRUCTION MATERIALS AND EQUIPMENT. THE PROJECT SUPERINTENDENT (OR A DESIGNATED REPRESENTATIVE) MUST MONITOR THE PROJECT FOR SAFETY CONCERNS AND POTENTIAL HAZARDS AT ALL TIMES.

**EXISTING UTILITIES**

1. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES WITH A 48-HOUR ADVANCED NOTICE AND DETERMINE THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES BEFORE COMMENCING WORK. CONTRACTOR IS RESPONSIBLE FOR PROTECTING AND PROPERLY REPAIRING ANY DAMAGED UTILITIES.
2. UTILITY LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE BASED ON RECORDS OF VETERANS AFFAIRS AND FIELD VERIFICATION BY THE MAINTENANCE CREWS. FIELD VERIFICATION OF BURIED GAS, ELECTRIC, TELEPHONE, WATER, SEWER AND CABLE TV LINES ARE BY ELECTRONIC OR MAGNETIC DETECTION METHODS. ALL UTILITY LOCATIONS ARE SUBJECT TO THE ACCURACY OF THE LOCATION METHOD AND ARE SUBJECT TO RELOCATION FROM THE TIME THAT THE DRAWINGS WERE PREPARED. NO EXCAVATION WAS PERFORMED.
3. THE CONTRACTOR MUST NOTIFY THE VHA COR OF ALL UTILITIES ENCOUNTERED DURING CONSTRUCTION AND MUST NOT BACKFILL UNTIL THE CONTRACTOR HAS MADE A RECORD OF ITS TYPE, SIZE AND LOCATION.
4. CONTRACTOR MUST CONTACT THE VHA COR FOR ANY NEEDED LOCATES.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT, ADJUST AND RE-LOCATE ANY UTILITIES INTERFERING WITH THE SPECIFIED CROSS-SECTIONS AND DEPTHS AS DESIGNED IN THE SITE PLAN AND GRADING PLANS.

**CONSTRUCTION LIMITS**

1. CONTRACTOR MUST RESPECT ALL CONSTRUCTION PERMIT BOUNDARIES AS SHOWN. ALL WORK MUST BE DONE WITHIN THESE BOUNDARIES.
2. ANY WORK OR STORAGE OF MATERIALS OUTSIDE OF THE CONSTRUCTION LIMITS MAY BE DONE ONLY AFTER RECEIVING PERMISSION FROM THE VHA COR. THIS PERMISSION MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO COMMENCING WORK OUTSIDE OF THE ESTABLISHED BOUNDARIES.
3. CONTRACTOR IS FULLY LIABLE FOR THE COST OF ANY DAMAGES TO THE PROPERTY, AS WELL AS ANY COSTS TO REMEDY SUCH CIRCUMSTANCES WITH THE VHA COR.

**LIMIT OF DISTURBANCE/RESTORATION**

1. ALL DISTURBED AREAS MUST BE RECLAIMED WITH A MINIMUM OF 6" TOPSOIL IN ALL SEEDED AREAS PRIOR TO THE PLACEMENT OF SEED. THE CONTRACTOR MUST SALVAGE EXISTING TOPSOIL FROM AREAS WHERE REMOVED.
2. ALL AREAS OF DISTURBANCE SHALL BE RECLAIMED TO A CONDITION THAT IS EQUAL TO OR BETTER THAN THE ORIGINAL.

**GRADING**

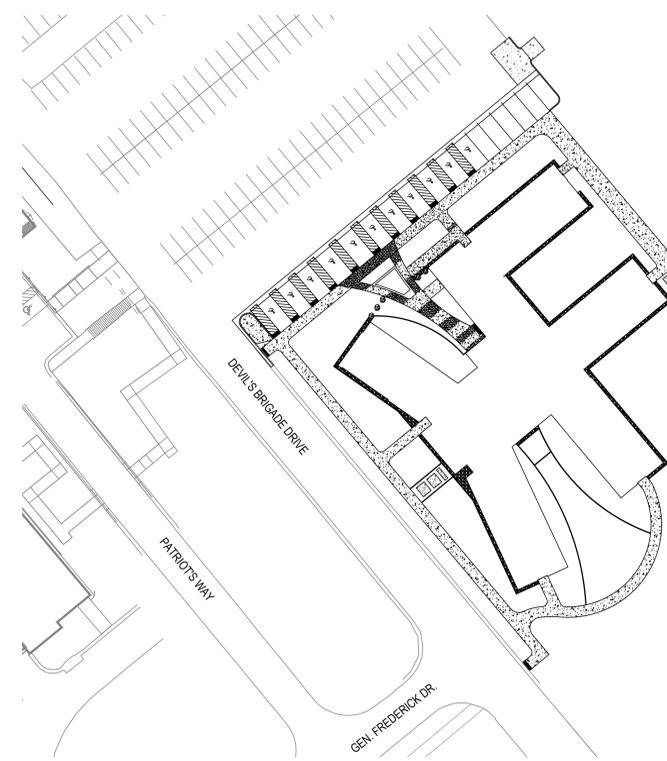
1. SUBGRADE PLACEMENT MUST BE PROOF ROLLED AFTER BEING COMPACTED TO SPECIFIED DENSITIES. PROOF ROLLING MUST BE APPROVED BY THE COR PRIOR TO PLACEMENT OF ANY PAVEMENT.
2. SUBGRADE TO BE COMPACTED TO MDT STANDARDS AND COMPACTION TESTING VERIFIED BY INDEPENDENT TEST AE.

**SCHEDULING / ACCESS**

1. CONTRACTOR MUST COORDINATE ALL CONSTRUCTION, SHUTDOWNS, DETOURS AND ANY OTHER OBSTRUCTION OF NORMAL USE OF ROADWAYS AND PARKING LOTS NEAR THE CONSTRUCTION LIMITS WITH THE COR NO LESS THAN 24 HOURS PRIOR TO BEGINNING.

**PERMITS**

1. CONTRACTOR MUST OBTAIN STORMWATER PERMITS FROM MTDEQ PRIOR TO CONSTRUCTION, IF REQUIRED.
2. CONTRACTOR MUST IMPLEMENT SWPPP PRIOR TO CONSTRUCTION. COSTS ASSOCIATED WITH IMPLEMENTATION OF SWPPP WILL BE SUBSIDIARY.
3. CONTRACTOR IS REQUIRED TO OBTAIN MTDEQ CONSTRUCTION DISCHARGE PERMIT, IF NECESSARY.
4. WORK CANNOT COMMENCE UNTIL ABOVE PERMITS ARE OBTAINED.
5. CONTRACTOR IS REQUIRED TO PAY 1.0% EXCISE TAX TO STATE.



**1 SITE MAP**  
SCALE: 1" = 40'



**2 VICINITY MAP**  
SCALE: NO SCALE



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Issued: _____ Date: _____ VA FORM 08-6231	<b>CONSULTANTS:</b> 	<b>ARCHITECT/ENGINEERS:</b>  750 W HAMPDEN AVE SUITE #300 ENGLEWOOD CO 80110 (720) 550-6307 WWW.VALHALLAENGINEERING.COM	<b>STAMP:</b> 		Drawing Title <b>CIVIL COVER SHEET</b>	Phase 100% CONSTRUCTION DOCUMENTS	Project Title OUTPATIENT MENTAL HEALTH / EDUCATION ADDITION	Project Number 436-114
	Approved: Project Director	Location 3687 VETERANS DRIVE, FORT HARRISON, MT 59636	Issue Date 08/05/2020	Checked RAG	Drawn AJH	Building Number 173	Drawing Number C-001-P1	

**SITE ABBREVIATIONS**

AB	ANCHOR BOLT	COV FL	COVER PLATE	FPM	FEET PER MINUTE	NOM	NOMINAL	SEP	SEPARATE
ABAN	ABANDON	CP	CONCRETE PIPE OR CONTROL PANEL	FPS	FEET PER SECOND	NORM	NORMAL	SEP TNK	SEPTIC TANK
ABBRV	ABBREVIATION	CPLG	COUPLING	FPW	FIRE PROTECTION WATER SUPPLY	NRCP	NON-REINFORCED CONCRETE PIPE	SF	SQUARE FOOT (FEET)
ABC	AGGREGATE BASE COURSE	CPP	CORRUGATED PLASTIC PIPE	FSP	FIRE STANDPIPE	NTP	NOTICE TO PROCEED	SHLDR	SHOULDER
AC	ASPHALTIC CONCRETE	CRCMF	CIRCUMFERENCE	FSS	FLOW SENSING SWITCH	NTS	NOT TO SCALE	SJ	SCORED JOINT
ACP	ASPHALTIC CONCRETE PAVING	CRN	CROWN	FT	FEET OR FOOT	OC	ON CENTER	SLV	SLEEVE
ADA	AMERICANS WITH DISABILITIES ACT	CRP	CONDENSATE RETURN PUMP	FTG	FOOTING	OFD	OVERFLOW DRAIN	SM	SILT SAND
ADDM	ADDENDUM	CRSI	CONCRETE REINFORCING STEEL	FW	FLOOD WALL	OPNG	OPENING	SMH	STEAM MANHOLE
AGGR	AGGREGATE		INSTITUTE	G	GROUND OR NATURAL GAS	OZ	OUNCE	SMP	SUMP PUMP
ALLOW	ALLOWANCE	CRT YD	COURTYARD	GALN	GAS LINE	P	PUMP	SOV	SHUT OFF VALVE
ALNMT	ALIGNMENT	CSB	CONCRETE SPLASH BLOCK	GAL	GALLON	PA	PIPE ANCHOR	SP	SPOT ELEVATION
ALT	ALTERNATE OR ALTITUDE	CSI	CONSTRUCTION SPECIFICATIONS	GAS	GAS	PAR	PARALLEL	SP EL	SPECIFICATION
ALUM	ALUMINUM		INSTITUTE	GALN	GALLON	PAT	PATTERN	SPKLR	SPRINKLER
AMT	AMOUNT	CSP	CONCRETE SEWER PIPE	GC	GENERAL CONTRACTOR	PB	PULL BOX	SPLY	SUPPLY
APPD	APPROVED	CSTL	CAST STEEL	GCO	GRADE CLEANOUT	PC	POINT OF CURVE	SPR	SPRINKLER LINE
APPROX	APPROXIMATE	CTR	CENTER, CONTOUR, OR COOLING TOWER	GDR	GUARD RAIL	PCA	PORTLAND CEMENT ASSOCIATION	SQ IN	SQUARE INCH
APPX	APPENDIX		RETURN	GEN	GENERATOR	PCC	PRECAST CONCRETE	SQ YD	SQUARE YARD
ASB	ASBESTOS	CTRL	CONTROL	GI	GALVANIZED IRON	PCCP	CONCRETE PAVEMENT	SR	STEAM RETURN
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	CTS	COOLING TOWER SUPPLY	GIP	GALVANIZED IRON PIPE	PCT	PERCENT	SS	SANITARY SEWER, STEAM SUPPLY, OR STORM SEWER
ASI	ARCHITECT'S SUPPLEMENTAL INSTRUCTION	CTV	CABLE TELEVISION	GL	GROUND LEVEL	PED	PEDESTAL	SSP	STAINLESS STEEL PIPE
ASPH	ASPHALT	CU	COPPER OR CUBIC	GOVT	GOVERNMENT	PERF	PENETRATE	SST	STAINLESS STEEL
ASSY	ASSEMBLY	CU FT	CUBIC FEET	GRD	GALLONS PER DAY	PERM	PERIMETER	ST	STREET
AVE	AVENUE	CU IN	CUBIC INCH	GRM	GRADE BEAM	PERM	PERMANENT	ST W	STORM WATER
AWG	AMERICAN WIRE GAUGE	CU YD	CUBIC YARD	GT	GREASE TRAP	PERP	PERPENDICULAR	STA	STATION
AWWA	AMERICAN WATER WORKS ASSOCIATION	CW	CLOCKWISE	GUT	GUTTER	PG	PRESSURE GAGE OR PROFILE GRADE	STD	STANDARD
B&F	BELL AND FLANGE	D	PENNY (NAIL)	H&CW	HOT AND COLD WATER	PH	PHASE	STM	STIRRUP
B&S	BELL AND SPIGOT	DA	DRAINAGE AREA	HAZ MAT	HAZARDOUS MATERIALS	PHOTO	PHOTOGRAPH	SUCT	SUCTION
BAL	BALANCE	DAT	DATUM	HB	HOSE BIBB	PHWR	PRIMARY HOT WATER RETURN	SUPP	SUPPORT
BC	BACK OF CURB	D-B	DESIGN-BUILD	HC	HANDICAP	PHWS	PRIMARY HOT WATER SUPPLY	SURF	SURFACE
BCV	BUTTERFLY CHECK VALVE	DBA	UNIT OF SOUND LEVEL	HCP	HANDICAPPED	PI	POINT OF INTERSECTION	SURV	SURVEY
BDRY	BOUNDARY	DBL	DOUBLE	HDR	HIGH DENSITY POLYETHYLENE	PIV	POST INDICATOR VALVE	SUTK	SUMP TANK
BFP	BACKFLOW PREVENTER	DEG	DEGREE	HDR	HEADWALL	PK GAR	PARKING GARAGE	SW	SIDEWALK
BFV	BUTTERFLY VALVE	DEL	DELETE	HDWL	HEADWALL	PK LOT	PARKING LOT	SWG	SEWAGE
BITUM	BITUMINOUS	DEMO	DENOLITION	HEX	HEXAGON	PL	PROPERTY LINE	SWR	SEWER
BKGD	BACKGROUND	DEPT	DEPARTMENT	HH	HAND HOLE	PLAS	PLASTIC OR PLASTER	SYM	SYMBOL
BL	BASE LINE	DESCR	DESCRIPTION	HNDRL	HANDRAIL	PMPSCCT	PUMP SUCTION		
BLDG	BUILDING	DET	DETAIL	HORIZ	HORIZONTAL	PN	PART NUMBER		
BLR	BOILER	DEV	DEVELOPMENT	HP	HIGH PRESSURE	PNEU	PNEUMATIC	T&M	TIME AND MATERIALS
BLT	BUILT	DHW	DOMESTIC HOT WATER	HT	HEIGHT	PO	POST OFFICE OR PURCHASE ORDER	TAN	TANGENT
BLVD	BOULEVARD	DI	DROP INLET	HV	HOSE VALVE	POLY	POLYETHYLENE (PLASTIC)	TBM	TEMPORARY BENCHMARK
BM	BEAM OR BENCHMARK	DIA	DIAMETER	HWY	HIGHWAY	PORT	PORTABLE	TB-XX	TEST BORING-XX (E.G., TB-01)
BN	BULLNOSE	DIAG	DIAGONAL DIAGRAM	HYD	HYDRANT	POTW	POTABLE WATER	TCP	TRAFFIC CONTROL PLAN
BRG	BEARING	DIAG	DIAGONAL	HYDR	HYDRAULIC	POW LN	POWER LINE	TD	TRENCH DRAIN
BSTR	BOOSTER	DIM	DIFFERENCE OR DIFFERENTIAL	ID	INSIDE DIAMETER OR INSIDE DIMENSION	PP	POLYPROPYLENE (PLASTIC)	TE	TOP ELEVATION
BV	BALL VALVE	DIP	DIP	IMH	INLET MANHOLE	PR	PUMPED RETURN	TEL	TELEPHONE
BW	BOTH WAYS	DIR	DIRECTION	INCL	INCLUDED	PRCST	PRECAST	TEMP	TEMPORARY
BWG	BIRMINGHAM WIRE GAUGE	DIST	DISTANCE	INCR	INCREMENT	PREFMD	PREFORMED	THK	THICKNESS
C TO C	CENTER TO CENTER	DIV	DIVISION	INFO	INFORMATION	PRELIM	PRELIMINARY	THRU	THROUGH
CALC	CALCULATE	DOC	DOCUMENT	INSTL	INSTALL	PREP	PREPARATION	TMH	TOP OF MANHOLE
CAP	CAPACITY	DOM	DOMESTIC	INSTR	INSTRUMENT	PREV	PREVIOUS	TN	TRUE NORTH
CB	CATCH BASIN OR CEMENT BASE	DOUG FIR	DOUGLAS FIR	INV	INVERT	PRKG	PARKING	TNL	TUNNEL
CCTV	CLOSED CIRCUIT TELEVISION	DOZ	DOZEN	INV EL	INVERT ELEVATION	PROJ	PROJECT	TO	TOP OF
CD	CONSTRUCTION DOCUMENTS OR CONTRACT DOCUMENTS	DR	DRAIN OR DRIVE	IP	IRON PIPE	PROP	PROPERTY	TO FDN	TOP OF FOUNDATION
CDW	CHILLED DRINKING WATER	DS	DOWNSPOUT	IPS	IRON PIPE SIZE	PRV	PRESSURE REGULATOR VALVE OR PRESSURE RELIEF VALVE	TOB	TOP OF BEAM
CDWR	CHILLED DRINKING WATER RETURN	DSBL	DISABLE	IPT	IRON PIPE THREADED	PS CONC	PRESTRESSED CONCRETE	TOC	TOP OF CONCRETE OR TOP OF CURB
CDWS	CHILLED DRINKING WATER SUPPLY	DSGN	DESIGN	IRREG	IRREGULAR	PSI	POUNDS PER SQUARE INCH	TOC FTG	TOP OF CONCRETE FOOTING
CEM	CEMENT OR CEMENTARY	DW	DOMESTIC WATER	ISO	ISOMETRIC	PSL	PIPE SLEEVE	TOC WALL	TOP OF CONCRETE WALL
CF	CONTRACTOR FURNISHED	DWG	DRAWING	IW	IRRIGATION WATER	PT	POST TENSIONED	TOP	TOP OF FOOTING
CFS	CUBIC FEET PER SECOND	DWR	DOMESTIC WATER RETURN OR DRAWER	KWY	KEYWAY	PT CONC	POST-TENSIONED CONCRETE	TOPO	TOPOGRAPHY
CG	CENTER OF GRAVITY	DWS	DOMESTIC WATER SUPPLY	L	ANGLE	PTRV	PRESSURE TEMPERATURE RELIEF VALVE	TOS	TOP OF SLAB
CH	CHANNEL OR CHILLER	E	EAST	LAT	LATITUDE	PV	PAVED	TP	TOP OF RIM
CHFR	CHAMFER	EA	EACH	LF	LINEAR FEET (FOOT)	PV RD	PAVED ROAD	TR	TREATED WATER RETURN
CHK	CHECK	EC	EDGE OF CURB	LIN	LINEAR	PVC	POLYVINYL CHLORIDE (PLASTIC)	TWR	TREATED WATER SUPPLY
CHKV	CHECK VALVE	EJ	EXPANSION JOINT	LNG	LONGITUDE	QTR	QUARTER	TWS	TYPICAL
CI	CAST IRON OR CURB INLET	EL	EASEMENT LINE OR ELEVATION	LOC	LOCATION	QTY	QUANTITY	TYP	TYPICAL
CIP	CAST-IN-PLACE OR CAST IRON PIPE	ENGR	ENGINEER	LONG	LONGITUDINAL	QUAD	QUADRANT	UFC	UNIFORM FIRE CODE
CIR	CIRCLE	ENTR	ENTRANCE	LOS	LINE OF SIGHT	QUAL	QUALITY	UGND	UNDERGROUND
CJ	CONSTRUCTION JOINT OR CONTROL JOINT	EPA	EDGE OF PAVEMENT (PAVING)	LPT	LOW POINT	R	RADIUS OR RANGE	UNFIN	UNFINISH
CL	CENTER LINE, CLASS, OR CLOSE	EP	ENVIRONMENTAL PROTECTION AGENCY	LS	LUMP SUM	RAD	RADIANT	UNPV RD	UNPAVED ROAD
CLASS	CLASSIFICATION	EPT	EXTERNAL PIPE THREAD	LT	LIGHT	RC	REINFORCED CONCRETE	UNON	UNLESS OTHERWISE NOTED
CLL	CONTRACT LIMIT LINE	EQ	EQUAL	LTG	LIGHTING	RCB	REINFORCED CONCRETE BOX	UP	UTILITY POLE
CLOS	CLOSURE	EQL SP	EQUALLY SPACED	MAINT	MAINTENANCE	RCCP	REINFORCED CONCRETE CULVERT PIPE	UPS	UNINTERRUPTIBLE POWER SUPPLY
CLR	CLEAR	EQUIV	EQUIVALENT	MATV	MATERIAL	RCP	REINFORCED CONCRETE PIPE	UTIL	UTILITY
cm	CENTIMETER	ERD	EXISTING ROOF DRAIN	MAX	MAXIMUM	RD	ROAD OR ROOF DRAIN	VAR	VARIABLE
CMP	CORRUGATED METAL PIPE	ES	EDGE OF SHOULDER	MB	MAIL BOX	RDC	REDUCER	VB	VALVE BOX
CMU	CONCRETE MASONRY UNIT	ESMT	EASEMENT	MED	MEDIUM	REBAR	REINFORCING STEEL BARS	VC	VERTICAL CURVE
CNCL	CONCEALED	EST	ESTIMATE	MEMO	MEMORANDUM	REP	REPAIR	VCO	VACUUM CLEANER OUTLET
CND	CONDUIT	EW	EACH WAY	MER	MERIDIAN	REPL	REPLACE	VCT	VITRIFIED CLAY TILE VINYL COMPOSITION
CNDS	CONDENSATE	EXCL	EXCLUDE	MFG	MANUFACTURED	REQ	REQUIRED	VERT	VERTICAL
CNR	CORNER	EXP	EXPANSION	MGT	MANAGEMENT	RESIL	RESILIENT	VIC	VICINITY
CNTOR	CONTRACTOR	EXST GR	EXISTING GRADE	MH	MANHOLE	RFI	REQUEST FOR INFORMATION	VID	VIDEO
CO	CERTIFICATE OF OCCUPANCY, CLEANOUT, COMPANY, OR CUTOUT	EXT	EXTERIOR	MIN	MINIMUM	RFP	REQUEST FOR PROPOSAL	VIF	VERIFY IN FIELD
COL	COLUMN	EXT GR	EXTERIOR GRADE	MISC	MISCELLANEOUS	ROW	RIGHT OF WAY	VOL	VOLUME
COMM	COMMUNICATION	F	FAHRENHEIT, FEMALE, FIRE LINE	ML	MATERIALS LIST	RST	REINFORCING STEEL	W	WASTE, WEST, OR WIDE
CONC	CONCENTRIC OR CONCRETE	F METER	FLOWMETER	MN	MAGNETIC NORTH	RT	RIGHT	W/	WITH
CONC FLR	CONCRETE FLOOR	F/F	FACE TO FACE	MOD	MODEL OR MODIFY	RV	RELIEF VALVE	W/O	WITHOUT
COND	CONDENSER OR CONDITION	FACIL	FACILITY	MON	MONUMENT	RWL	RAIN WATER LEADER	WI	WROUGHT IRON
CONDN	CONDENSATION	FD	FLOOR DRAIN	MTG	MEETING	RWR	RECESSED WASTE RECEPTACLE	WL	WATER LINE
CONF	CONFERENCE	FES	FLARED END SECTION	MULT	MULTIPLE	SAMP	SAMPLE	WLD	WELDED
CONSTR	CONSTRUCTION	FF EL	FINISH FLOOR ELEVATION	MUNIC	MUNICIPAL	SAN	SANITARY	WM	WATER METER WIRE MESH
CONSULT	CONSULTANT	FH	FIRE HYDRANT	N	NORTH	SB	SPLASH BLOCK	WM	WIRE MESH WATER METER
CONT	CONTINUE	FIG	FIGURE	NA	NOT APPLICABLE	SCHD	SCHEDULE	WO	WORK ORDER
CONTR	CONTRACT OR CONTRACTOR	FIL	FILLET	NAT	NATURAL	SCP	SCUPPER	WP	WATER PUMP
COORD	COORDINATE	FIN	FINISH	NATL	NATIONAL	SD	STORM DRAIN	WT	WATER TABLE
COR	CONTRACTING OFFICER'S REPRESENTATIVE	FLG	FLANGE	NBC	NATIONAL BUILDING CODE	SDL	SADDLE	WT EL	WATER ELEVATION
CORR	CORRIDOR	FLL	FLOW LINE	NE	NOT EXCEEDING	SDM	STORM DRAIN MANHOLE	WTR	WATER
COTG	CLEANOUT TO GRADE	FLR	FLOOR	NIC	NOT IN CONTRACT	SECT	SECTION	WW	WASTE WATER
COV	COVER OR CUT OFF VALVE	FLRD	FLARED	NO	NUMBER	SEG	SEGMENT	WW	WASTE WATER WARM WHITE; WIREWAY
		FLTR	FILTER			SEL	SELECT	XFMR	TRANSFORMER
		FLUOR	FLUORESCENT						
		FN	FENCE						
		FOC	FACE OF CURB						
		FP	FIRE PROTECTION OR FLAGPOLE						

**SITE SYMBOLS - GENERAL**

	BENCHMARK
	CENTER LINE INDICATOR
	DEMOLITION LINE
	BREAK, ROUND (USER DEFINES SIZE)
	BREAK, STRAIGHT (USER DEFINES SIZE)
	DETAIL INDICATOR
	LEGEND
	ELEVATION INDICATOR
	IDENTIFICATION DEVICE INDICATOR
	KEYNOTE INDICATOR
	MATCHLINE FEATURES ABOVE LINE INDICATOR
	REVISION INDICATOR (SHOWN WITH CLOUD)

**SITE SYMBOLS - CONCRETE/MASONRY**

	CONCRETE SECTION
	CONCRETE PLAN
	GRATING, PLAN
	GRATING, SECTION
	CHECKER PLATE, PLAN
	EARTH, CRUSHED ROCK GRAVEL
	EARTH, COMPACTED FILL
	EARTHWORK, UNDISTURBED
	SAND
	EARTHWORK, GRAVEL, POROUS FILL

**SITE SYMBOLS - EARTHWORK**

	EARTH, CRUSHED ROCK GRAVEL
	EARTH, COMPACTED FILL
	EARTHWORK, UNDISTURBED
	SAND
	EARTHWORK, GRAVEL, POROUS FILL
	UNIFORM FIRE CODE
	UNDERGROUND
	UNFINISH
	UNPAVED ROAD
	UNLESS OTHERWISE NOTED
	UTILITY POLE
	UNINTERRUPTIBLE POWER SUPPLY
	UTILITY
	VARIABLE
	VALVE BOX
	VERTICAL CURVE
	VACUUM CLEANER OUTLET
	VITRIFIED CLAY TILE VINYL COMPOSITION
	TILE
	VERTICAL
	VICINITY
	VIDEO
	VERIFY IN FIELD
	VOLUME
	WASTE, WEST, OR WIDE
	WITH
	WITHOUT
	WROUGHT IRON
	WATER LINE
	WELDED
	WATER METER WIRE MESH
	WIRE MESH WATER METER
	WORK ORDER
	WATER PUMP
	WATER TABLE
	WATER ELEVATION
	WATER
	WASTE WATER
	WASTE WATER WARM WHITE; WIREWAY
	TRANSFORMER

**SITE SYMBOLS - UTILITIES**

	WATER VALVE
	DRAIN LINE PIPE LINE
	CAST IRON PIPE LINE
	EXISTING STORM DRAIN LINE
	STORM DRAIN LINE
	COMPRESSED AIR LINE
	GAS LINE PIPING
	SCREWED GATE VALVE
	POWER LINE
	EXISTING ELECTRICAL LINE
	EXISTING WATER LINE
	COMMUNICATIONS LINE
	TELEPHONE LINE UTILITY
	WATER MANHOLE
	WATER LINE, COLD
	WATER LINE, HOT
	FIRE HYDRANT
	FIRE DEPARTMENT CONNECTION
	UTILITY PO



- KEYNOTES:**
- 1 VERIFY AND REMOVE EXISTING ABANDONED WATER LINES AS SHOWN.
  - 2 COORDINATE DEMO OF EXISTING BURIED POWER WITH VHA COR. POWER TO THE STREET AND PARKING LOT LIGHT POLES IS TO REMAIN CONNECTED UNTIL POWER IS TRANSFERRED OVER TO NEW LINE.
  - 3 DEMO EXISTING LIGHT POLES AND CONCRETE BASES.
  - 4 SAW CUT AND REMOVE EXISTING ASPHALT FOR INSTALLATION OF SWALE AND CONCRETE PAVEMENT. SEE CS101-P1.
  - 5 SAW CUT AND REMOVE EXISTING PARKING LOT ASPHALT FOR NEW TRASH ENCLOSURE PAD.
  - 6 DEMO EXISTING CURB AND GUTTER TO MATCH PROPOSED PARKING LOT ENTRY RADIUS ON CS101-P1.
  - 7 DEMO EXISTING CURB AND GUTTER TO MATCH PROPOSED SIDEWALK RAMP AND EXISTING FLOWLINE.
  - 8 REMOVE AND REPLACE CURB TERMINATION WITH SPILLWAY ALIGNED WITH RIPRAP SWALE.
  - 9 SAW CUT AND REMOVE 10' WIDE SECTION TO ACCOMMODATE TRENCHING FOR NEW SANITARY SEWER LINE. SEE CU101-P1.



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**LEGEND:**

- EXISTING BURIED POWER: — BR — BR — BR —
- EXISTING NATURAL GAS: — EX GAS — EX GAS —
- EXISTING DOMESTIC WATER: — W —
- EXISTING SANITARY SEWER: — SEWER —
- DEMO EXISTING: · X X X X X X X X X X ·
- SAW CUT LINE: - - - - -
- EXISTING LIGHT POLE: [Symbol]
- DEMO LIGHT POLE: [Symbol]

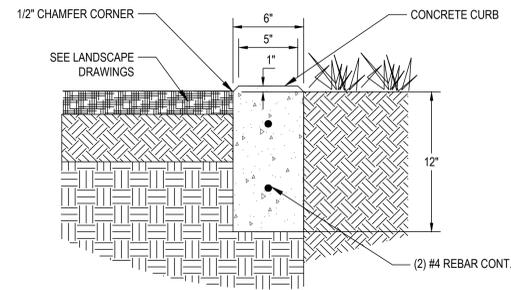


Issued: _____ Date: _____ VA FORM 08-6231	<b>CONSULTANTS:</b> Quality Consulting. Resourceful Management.	<b>ARCHITECT/ENGINEERS:</b>  750 W HAMPDEN AVE SUITE #300 ENGLEWOOD CO 80110 (720) 550-8307 WWW.VALHALLAENGINEERING.COM	<b>STAMP:</b> 	 U.S. Department of Veterans Affairs	Drawing Title <b>SITE DEMOLITION PLAN</b> Approved: Project Director	Phase 100% CONSTRUCTION DOCUMENTS	Project Title OUTPATIENT MENTAL HEALTH / EDUCATION ADDITION	Project Number 436-114 Building Number 173
	Location 3687 VETERANS DRIVE, FORT HARRISON, MT 59636	Issue Date 08/05/2020	Checked RAG	Drawn AJH	Drawing Number <b>CD101-P1</b>			

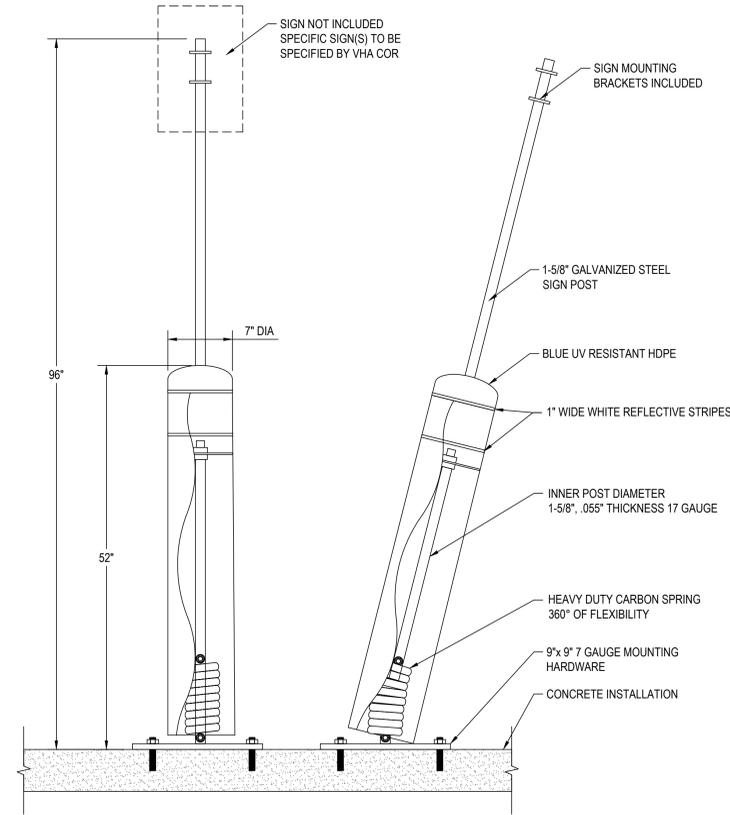


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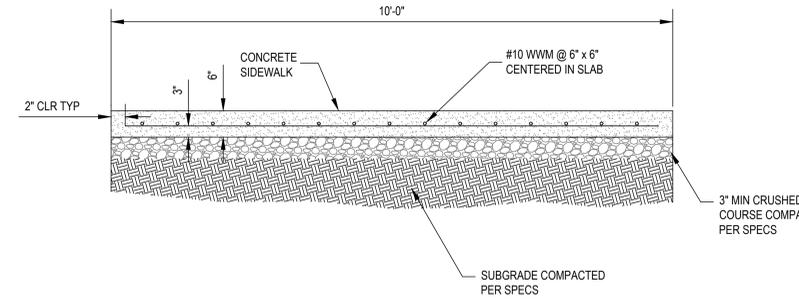
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**6 CONCRETE MOW STRIP DETAIL**  
SCALE: NO SCALE

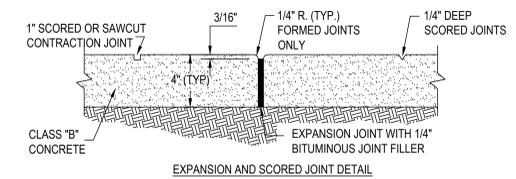


**4 FLEXIBLE BOLLARD WITH SIGN POST - CONCRETE INSTALLATION**  
SCALE: NO SCALE

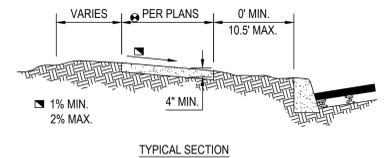


- NOTES:**
1. EXPANSION AND CONTRACTION JOINTS SHALL BE CONSTRUCTED ACCORDING TO NOTES 1-5 ON DETAIL 01/CS501-P1.
  2. CONCRETE SHALL BE FINISHED BY MEANS OF A FLOAT, STEEL TROWELLED AND BROOMED WITH A FINE BRUSH IN A TRANSVERSE DIRECTION.
  3. 1/4" DEEP SCORED JOINTS (TYP) SPACED AT 10' OR EQUAL TO SIDEWALK WIDTH.

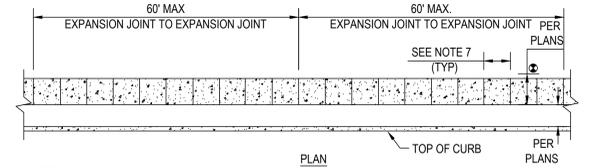
**2 REINFORCED CONCRETE SIDEWALK**  
SCALE: NO SCALE



EXPANSION AND SCORED JOINT DETAIL

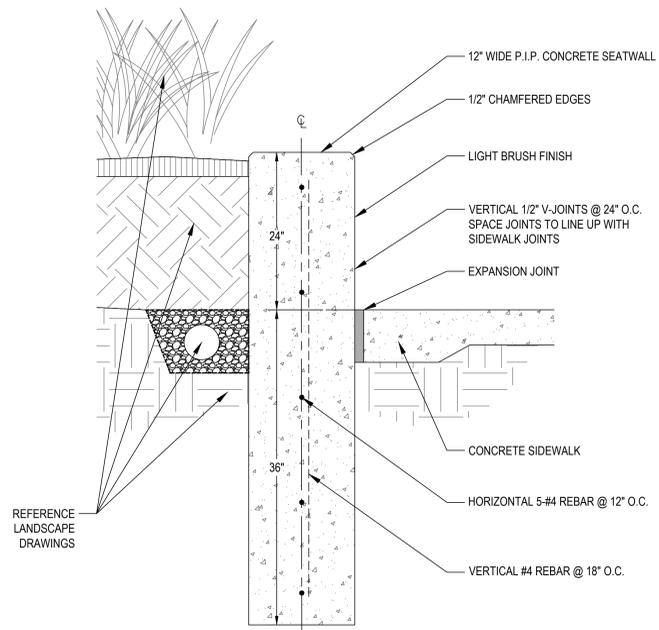


TYPICAL SECTION

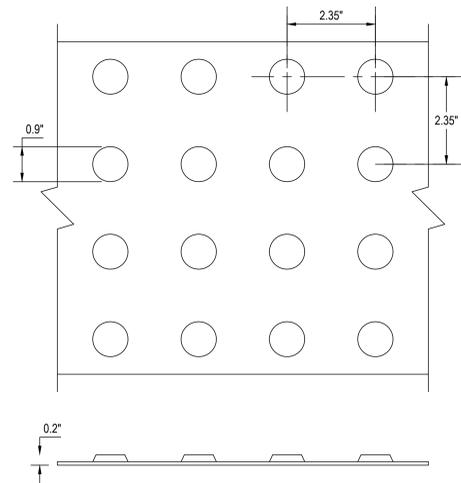


- NOTES:**
1. EXPANSION JOINTS SHALL BE LOCATED WHERE SIDEWALK ABUTS CONCRETE DRIVEWAYS, CURB OR OTHER ADJACENT STRUCTURES.
  2. ONE-HALF INCH BITUMINOUS JOINT FILLER SHALL BE INSTALLED AT EXPANSION JOINT LOCATIONS AND SHALL EXTEND THE FULL DEPTH OF THE CONCRETE.
  3. 1" DEEP CONTRACTION JOINTS SHALL BE PLACED AT INTERVALS OF APPROXIMATELY 15' 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.

**1 CONCRETE SIDEWALK**  
SCALE: NO SCALE



**5 PLANT BED WALL DETAIL**  
SCALE: NO SCALE

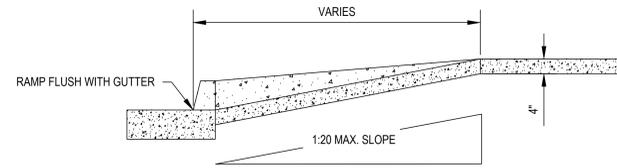


**3 DETECTABLE WARNING STRIP (TRUNCATED DOMES)**  
SCALE: NO SCALE

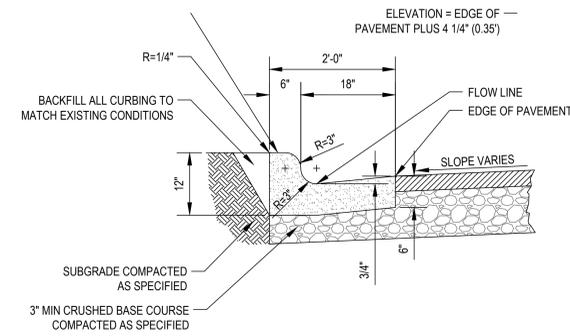
Issued: _____ Date: _____ VA FORM 08-6231	<b>CONSULTANTS:</b> 	<b>ARCHITECT/ENGINEERS:</b>  750 W HAMPDEN AVE SUITE #300 ENGLEWOOD CO 80110 (720) 550-6307 WWW.VALHALLAENGINEERING.COM	<b>STAMP:</b> 		Drawing Title <b>SITE DETAILS</b> Approved: Project Director	Phase 100% CONSTRUCTION DOCUMENTS	Project Title OUTPATIENT MENTAL HEALTH / EDUCATION ADDITION	Project Number 436-114 Building Number 173	
			Location 3687 VETERANS DRIVE, FORT HARRISON, MT 59636	Issue Date 08/05/2020	Checked RAG	Drawn MLH	Drawing Number <b>CS501-P1</b>		
			VEG 4.11						

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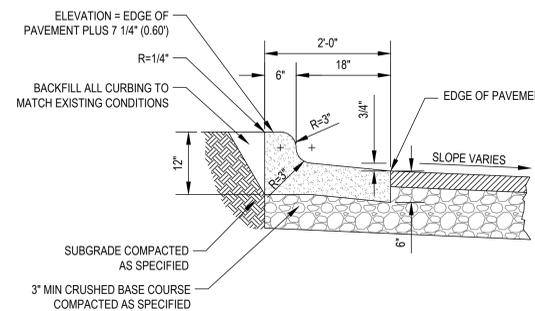
- NOTES:**
- ALL EXTERIOR CONCRETE WILL COMPLY WITH SPECIFICATIONS 32 05 12 CEMENT AND CONCRETE FOR EXTERIOR IMPROVEMENTS, 31 20 11 EARTHWORK (SHORT FORM) AND ANY OTHER APPLICABLE SPECIFICATIONS.
  - ALL NEW CONCRETE TO BE SEALED WITH A SEALANT LISTED ON THE MONTANA DEPARTMENT OF TRANSPORTATION QUALIFIED PRODUCTS LIST (DAYTON SUPERIOR WEATHER WORKER 40% J28, OR EQUAL).
  - CONTRACTION JOINTS SHALL BE PLACED EVERY 10 FT IN ACCORDANCE WITH MPWSS 02528. CONTRACTION JOINTS ARE TO BE 1/8" MIN. AND 3/8" MAX IN WIDTH. FORM JOINTS BY SAWING OR SCORING TO A MINIMUM DEPTH OF 1" AND A MAXIMUM DEPTH OF 1 1/2". FORM SCORE JOINTS BY A TOOL WHICH WILL LEAVE ROUNDED CORNERS AND DESTROY AGGREGATE INTERLOCK TO A MINIMUM DEPTH OF 1" AND A MAXIMUM DEPTH OF 1 1/2".
  - EXPANSION JOINTS OF 1/2" PRE FORMED MASTIC MATERIAL SHALL BE PLACED AT THE FOLLOWING LOCATIONS: PC'S & PT'S OF A CURVE, GRADE BREAKS, JUNCTIONS WITH EXISTING CONCRETE, OPPOSITE TO OR AT EXPANSION JOINTS IN ADJACENT CONCRETE, AT MAXIMUM 300 FT. INTERVALS, 4 IN. ON EITHER SIDE OF A DRAINAGE STRUCTURE AND AT OTHER LOCATIONS AS SPECIFIED BY THE VHA COR.
  - FINISHED PAVEMENT SURFACE SHALL BE 1/8" TO 1/4" ABOVE LIP OF CURB ON STANDARD "CATCH" TYPE CURBS & FLUSH WITH END OF CURB ON STANDARD "SPILL" TYPE CURBS.
  - BASE COURSE BELOW CURB & GUTTER SHALL BE A MINIMUM 3 INCHES THICK OR THE BALANCE OF THE TYPICAL SECTION, WHICH EVER IS GREATER.
  - ALL NEW CURBS SHALL BE BACKFILLED IN SUCH A MANNER AS TO MATCH EXISTING OR NEW ADJACENT AREAS.
  - INSTALL REINFORCEMENT AT ALL CONSTRUCTION JOINTS.



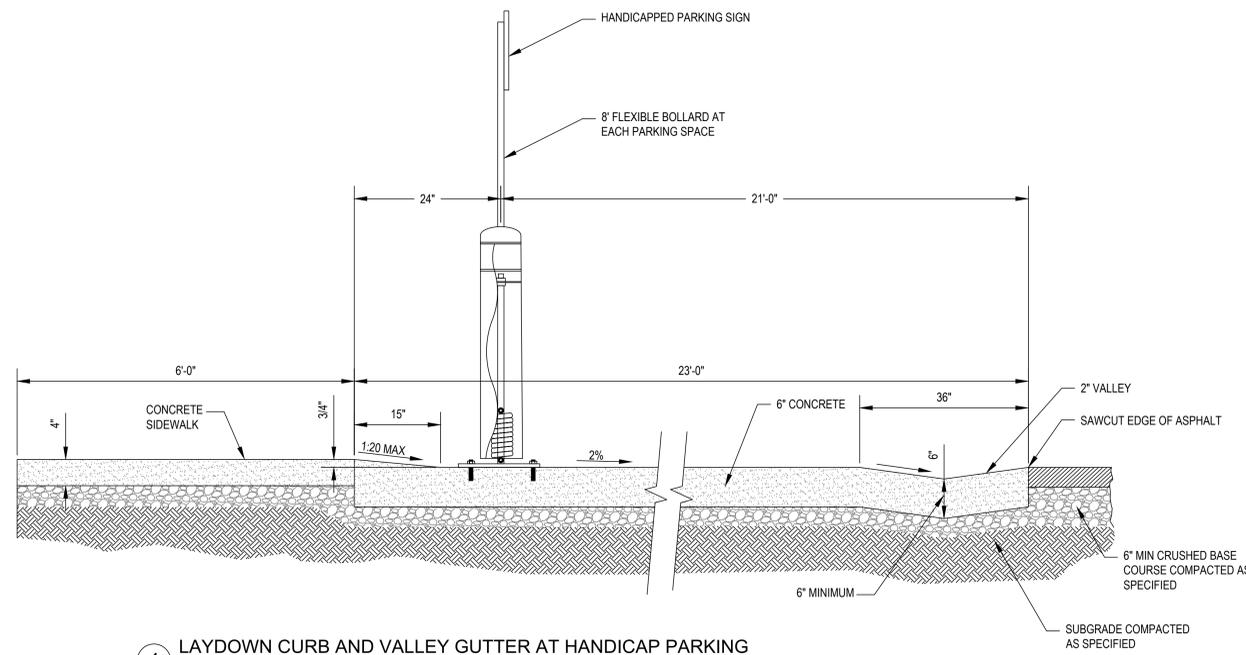
**3 HANDICAP CURB RAMP**  
SCALE: NO SCALE



**2 STANDARD CATCH TYPE CURB**  
SCALE: NO SCALE



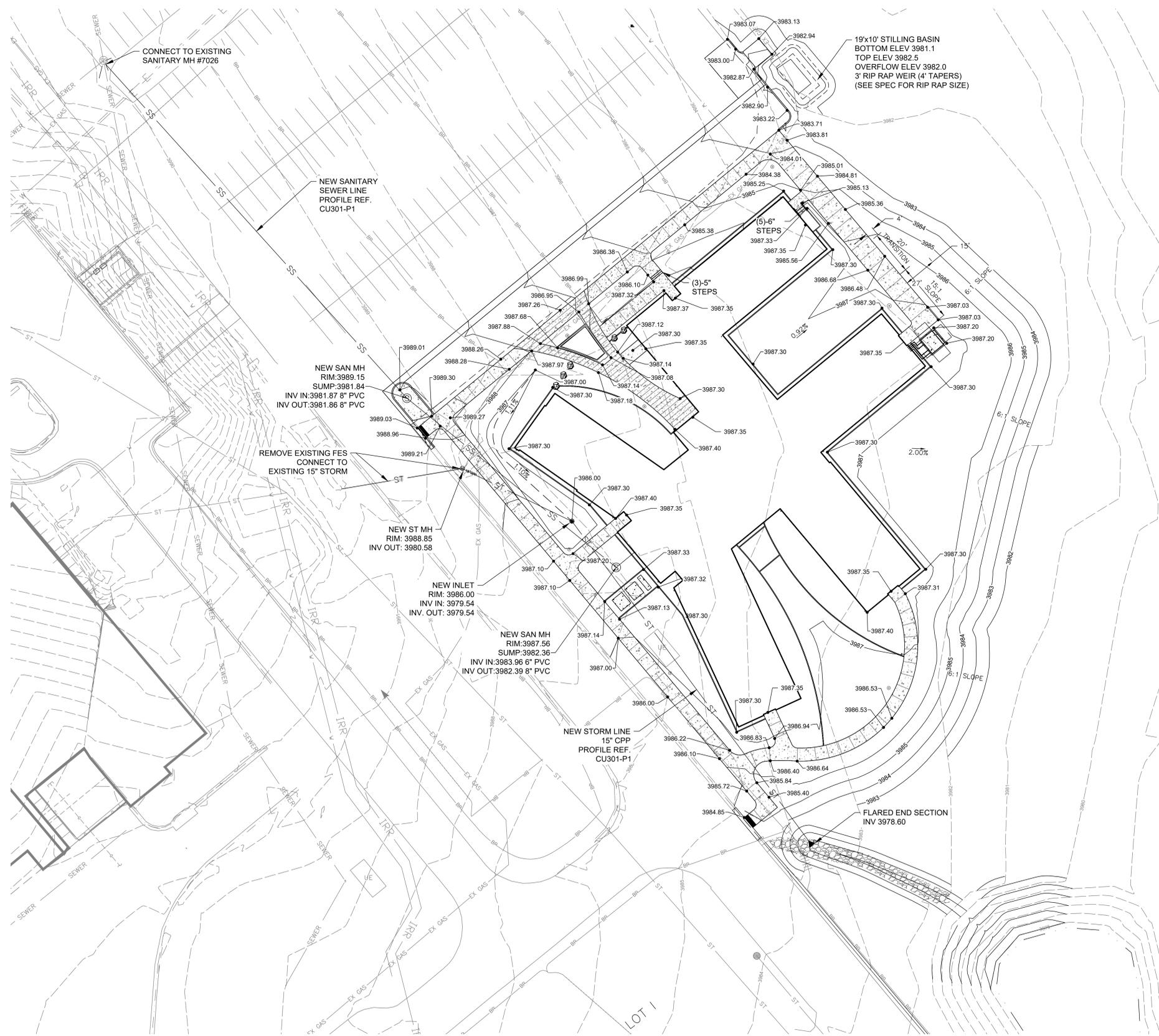
**1 STANDARD SPILL TYPE CURB**  
SCALE: NO SCALE



**4 LAYDOWN CURB AND VALLEY GUTTER AT HANDICAP PARKING**  
SCALE: NO SCALE

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					Approved: Project Director			Location 3687 VETERANS DRIVE, FORT HARRISON, MT 59636	Building Number 173	
							Issue Date 08/05/2020	Checked RAG	Drawn MLH	Drawing Number <b>CS502-P1</b>

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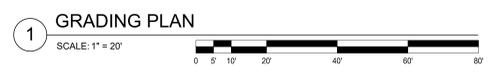


**GRADING NOTES**

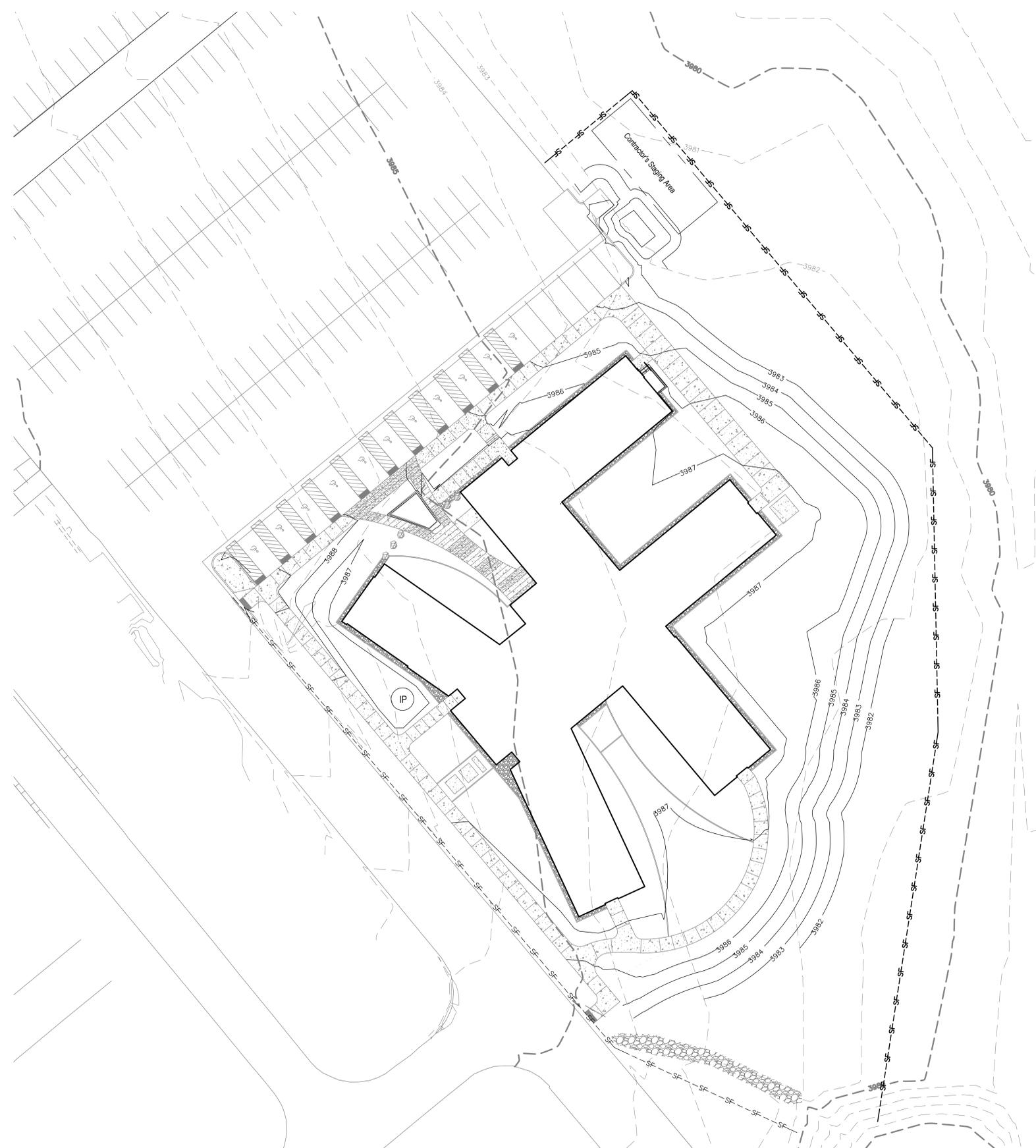
1. GRADING PLAN INDICATES FINISHED GRADES. PROPOSED CONTOURS AND SPOT ELEVATIONS ARE TO FINISHED GRADE.
2. A WATER TRUCK SHALL BE MADE AVAILABLE WITHIN 24 HOURS OF REQUEST FOR DUST CONTROL ON SITE.
3. ANY SETTLEMENT OR SOIL ACCUMULATIONS BEYOND THE PROPERTY LIMITS DUE TO GRADING OR EROSION SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR.
4. ANY CONSTRUCTION DEBRIS OR MUD TRACKING IN THE VA RIGHT-OF-WAY RESULTING FROM THIS DEVELOPMENT SHALL BE REMOVED IMMEDIATELY BY THE CONTRACTOR. THE CONTRACTOR SHALL IMMEDIATELY FIX ANY EXCAVATIONS OR EXCESSIVE PAVEMENT FAILURES CAUSED BY THE DEVELOPMENT AND SHALL PROPERLY BARRICADE THE SITE UNTIL CONSTRUCTION IS COMPLETE.
5. ALL SURFACES NOT RECEIVING PAVEMENT OR OTHER TREATMENT SHALL BE SEEDED AND MULCHED WITH NATIVE VEGETATION (SEE SEED MIX) OR AS APPROVED BY THE VA.
6. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR DURING CONSTRUCTION ACTIVITIES TO RESOLVE CONSTRUCTION PROBLEMS DUE TO CHANGED CONDITIONS OR DESIGN ERRORS ENCOUNTERED BY THE CONTRACTOR DURING THE PROGRESS OF ANY PORTION OF THE PROPOSED WORK. ANY IMPROVEMENTS CONSTRUCTED NOT IN ACCORDANCE WITH THE APPROVED PLANS, OR THE APPROVED REVISED PLANS, SHALL BE REMOVED AND THE IMPROVEMENTS SHALL BE RECONSTRUCTED ACCORDING TO THE APPROVED PLANS.
7. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS AT AND ADJACENT TO THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
8. CONTRACTOR SHALL CONTACT THE VHA COR (406-447-7801) FOR LOCATION OF UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
9. ALL EARTHWORK REQUIRED OF THIS CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH SPECIFICATION 31 20 11 EARTHWORK (SHORT FORM) AND ALL OTHER APPLICABLE SECTIONS OF THE PROJECT SPECIFICATIONS.
10. RUBBISH INCLUDING TIMBER, CONCRETE RUBBLE, TREES, BRUSH, AND ASPHALT SHALL NOT BE BACKFILLED ADJACENT TO ANY OF THE STRUCTURES OR BE IN THE PLACEMENT OF ANY UNCLASSIFIED FILL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND HAULING OF SUCH MATERIALS TO A SUITABLE SPOIL AREA. COSTS ASSOCIATED WITH THE REMOVAL OF SUCH MATERIALS SHALL BE PAID FOR AS DOCUMENTED IN THE PROJECT SPECIFICATIONS.
11. EXCESS EXCAVATION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF AT THE CONTRACTOR'S EXPENSE. THE COST OF HAULAGE AND SPOILING OF EXCESS EXCAVATED MATERIALS SHALL BE PAID FOR AS DOCUMENTED IN THE PROJECT SPECIFICATIONS.
12. WATER SHALL BE USED AS A DUST PALLIATIVE, AS REQUIRED, AND SHALL BE INCLUDED IN THE COST FOR EARTHWORK ITEM(S). NO SEPARATE PAYMENT WILL BE MADE FOR DUST CONTROL ASSOCIATED WITH THE SITE CONSTRUCTION.
13. SUBGRADE COMPACTION TO BE IN ACCORDANCE WITH MDT STANDARDS AND VERIFIED BY AN INDEPENDENT TESTING FIRM.
14. ALL CURB AND GUTTER ARE TO MATCH EXISTING (STANDARD "CATCH" TYPE CURB ON SHEET CS502-P1). STANDARD HANDICAP RAMP LAYDOWN CURB ALONG ENTRANCE SIDEWALK (SEE SITE PLAN).
15. COMPACTION UNDER PAVED AREAS SHALL BE IN ACCORDANCE TO SPECIFICATION 31 20 11 EARTHWORK (SHORT FORM).
16. NO RUBBLE OR DEBRIS SHALL BE PLACED IN THE BACKFILL UNDER ANY OF THE PROPOSED BUILDINGS OR WITHIN FIVE (5) FEET OF A BUILDING FOOTPRINT. PROPERLY GRADED RUBBLE MAY BE USED IN SOME LOCATIONS AS SPECIFIED AND VERIFIED BY THE ENGINEER.
17. CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE SITE PRIOR TO BIDDING TO VERIFY SITE CONDITIONS.
18. CONTRACTOR IS RESPONSIBLE FOR PROVIDING EROSION CONTROL MEASURES AS APPROVED AND/OR REQUIRED BY THE MONTANA DEPARTMENT OF ENVIRONMENTAL QUALITY.
19. ALL EROSION CONTROL WILL BE DONE IN CONFORMANCE WITH APPLICABLE STANDARDS. SEE SHEET CG201-P1 FOR INITIAL GESC PLAN.
20. ALL GRADING SHALL BE IN CONFORMANCE WITH THE GEOTECHNICAL REPORT ENTITLED GEOTECHNICAL ENGINEERING REPORT - OUTPATIENT MENTAL HEALTH FACILITY PREPARED BY TERRACON DATED FEBRUARY 7, 2019 (TERRACON PROJECT NO. C4185062)
21. BASE MAPPING GENERATED FROM FIELD SURVEY (PROJECT NO. 17350) PERFORMED BY ROBERT PECCIA & ASSOCIATES, DATED MAY, 2018.
22. EROSION CONTROL BLANKETS OR EQUIVALENT TO BE PLACED ON SLOPES STEEPER THAN 6:1 FOR SLOPE STABILIZATION REF. SPECIFICATIONS 01 57 19 TEMPORARY ENVIRONMENTAL CONTROLS.
23. ALL SPOT ELEVATIONS ARE TO FLOW LINE UNLESS OTHERWISE NOTED.
24. 10:1 SLOPE FOR 20' AROUND BUILDING PERIMETER (EXCEPT IN SIDEWALK LOCATIONS), THEN DAYLIGHT TO EXISTING GRADE AT 4:1.
25. SUBGRADE TO BE COMPACTED TO MDT STANDARDS AND COMPACTION VERIFIED BY INDEPENDENT TESTING AGENCY.



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			VEG 4.11	Approved: Project Director		Location 3687 VETERANS DRIVE, FORT HARRISON, MT 59636	Issue Date 08/05/2020	Checked RAG	Drawn AJH	Building Number 173



**EROSION CONTROL CONSTRUCTION SEQUENCE:**

- ITEMS MUST OCCUR IN THE ORDER LISTED, AND NOT CONCURRENTLY WITHOUT PRIOR COR APPROVAL.
1. HOLD A PRE-CONSTRUCTION MEETING WITH VHA COR, VHA STAFF, OPERATORS, AND ENGINEERS.
  2. CLEARING AND GRUBBING ONLY AS NECESSARY FOR INSTALLATION OF PERIMETER CONTROLS.
  3. INSTALLATION OF PERIMETER CONTROLS (E.G., SILT FENCE).
  4. INSTALLATION OF REMAINING EROSION CONTROL MEASURES PER CG501.
  5. CLEARING AND GRUBBING OF SITE (SEDIMENT AND EROSION CONTROL MEASURES FOR THESE AREAS MUST ALREADY BE INSTALLED) IN PREPARATION FOR CONSTRUCTION PHASE 1.
  6. INSTALLATION OF STORM DRAIN SYSTEM AND PLACEMENT OF INLET PROTECTION AS EACH INLET IS INSTALLED.
  7. INSTALLATION OF BUILDING AND SITE IMPROVEMENTS.
  8. PERMANENT/FINAL SITE STABILIZATION.
  9. REMOVAL OF TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES AFTER ENTIRE AREA DRAINING TO THE STRUCTURE IS FINALLY STABILIZED WITH APPROVAL FROM THE VHA COR.
  10. REMOVE EXISTING RIP RAP UPSTREAM OF DETENTION POND AND CLEAR IT OF CONSTRUCTION DEBRIS AND SEDIMENT. REPLACE RIP RAP, ADDING MATERIAL AS NECESSARY TO ACCOMMODATE PREDICTED DRAINAGE INTO POND.
  11. UPON COMPLETION OF CONSTRUCTION, THE DETENTION POND MUST BE CLEARED OF SEDIMENT AND CONSTRUCTION DIRT AND DEBRIS.
- MAINTENANCE OF SEDIMENT AND EROSION CONTROL MEASURES MUST CONTINUE UNTIL THE SITE IS PERMANENTLY STABILIZED AND THE CONTROLS ARE REMOVED.

**EROSION CONTROL LEGEND**

- SF---SF---SF--- SILT FENCE
- IP INLET PROTECTION

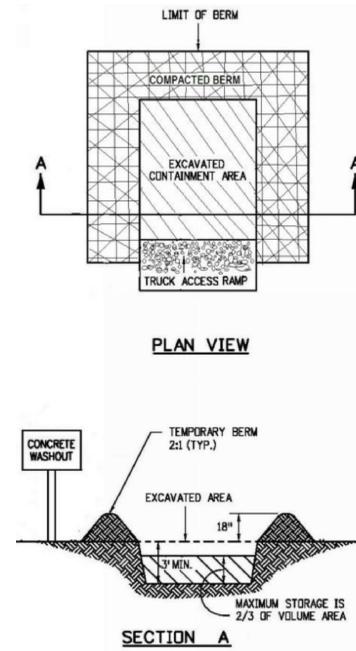


1 EROSION CONTROL PLAN

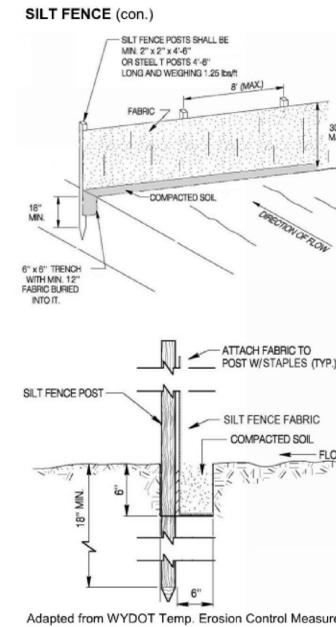
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	Location 3687 VETERANS DRIVE, FORT HARRISON, MT 59636	Issue Date 08/05/2020	Checked RAG	Drawn AJH	Drawing Number <b>CG201-P1</b>			

**EROSION CONTROL NOTES:**

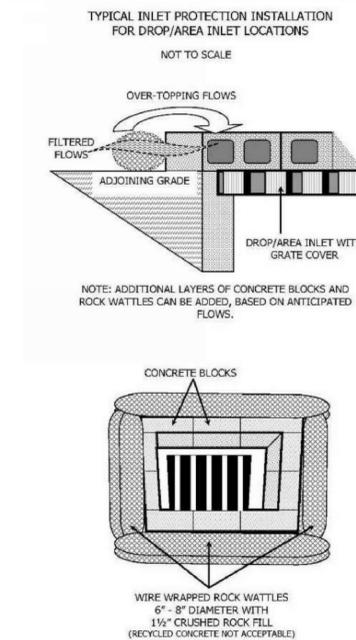
EROSION CONTROL DETAILS ARE FROM THE MONTANA DEPARTMENT OF ENVIRONMENTAL QUALITY STORM WATER MANAGEMENT DURING CONSTRUCTION FIELD GUIDE FOR BEST MANAGEMENT PRACTICES. ADDITIONAL BMPs MAY BE REQUIRED DURING CONSTRUCTION. CONFIRM SELECTION FROM FIELD GUIDE WITH EOR AND/OR VHA COR BEFORE IMPLEMENTATION.



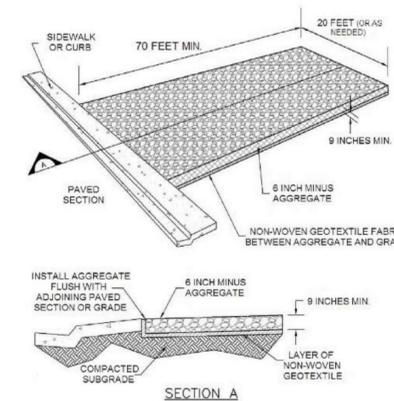
**4 CONCRETE WASHOUT**  
SCALE: NO SCALE



**2 SILT FENCE**  
SCALE: NO SCALE



**3 INLET PROTECTION**  
SCALE: NO SCALE



**1 VEHICLE TRACKING PAD**  
SCALE: NO SCALE

**CONSULTANTS:**



**ARCHITECT/ENGINEERS:**



**STAMP:**



U.S. Department of Veterans Affairs

Drawing Title  
**EROSION CONTROL DETAILS**

Approved: Project Director

Phase  
**100% CONSTRUCTION DOCUMENTS**

Project Title  
**OUTPATIENT MENTAL HEALTH / EDUCATION ADDITION**

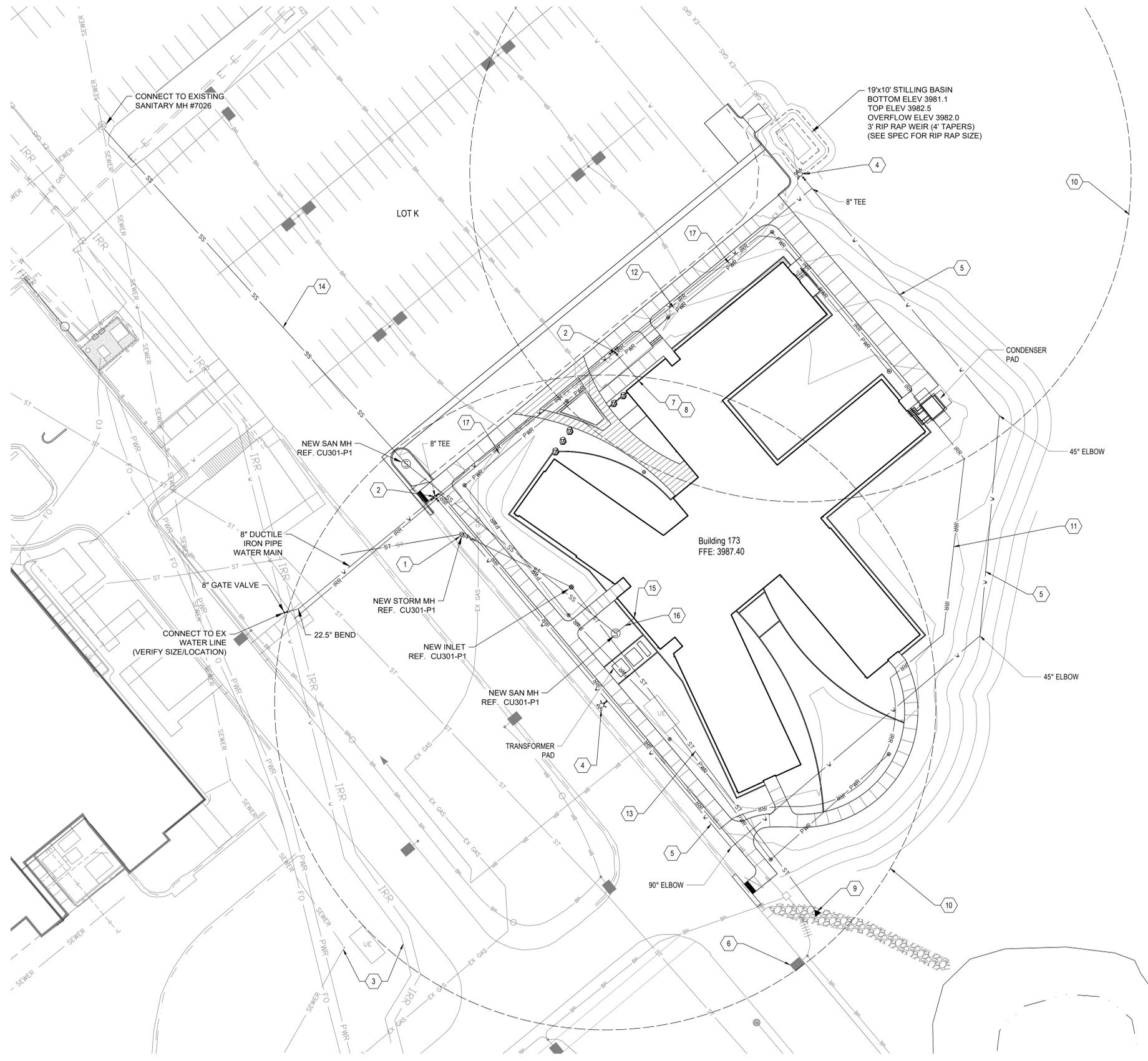
Location  
3687 VETERANS DRIVE, FORT HARRISON, MT 59636

Issue Date: 08/05/2020  
Checked: RAG  
Drawn: AJH

Project Number  
436-114

Building Number  
173

Drawing Number  
**CG501-P1**



**KEYNOTES:**

- 1 CLEAN AND CONNECT EXISTING 15" CPP TO 24" STORM MANHOLE. CONTINUE 15" CPP TO AREA INLET AND THEN TO DETENTION POND. SEE PROFILE ON CU301-P1.
- 2 WATER VALVE VAULT BOX (TYP.) SEE DETAIL ON SHEET 08/UC501-P1.
- 3 UTILITIES SHOWN WEST OF DEVIL'S BRIGADE DRIVE WILL HAVE BEEN RELOCATED DURING CONSTRUCTION OF BUILDING 172. CONFIRM LOCATION WITH AS-BUILT DRAWINGS AND SITE INVESTIGATION. THE LOCATIONS SHOWN ON THIS DRAWING ARE FOR REPRESENTATION ONLY.
- 4 INSTALL HYDRANTS PER DETAIL 06/CS501-P1.
- 5 8" MECHANICAL JOINT DUCTILE IRON PIPE DOMESTIC WATER LOOP. REFERENCE SPECIFICATION 33 10 00 WATER CONSTRUCTION. CONSTRUCT THRUST BLOCKS AT JOINTS IN ACCORDANCE WITH DETAIL 05/CS501-P1.
- 6 COORDINATE WITH VHA COR FOR CONSTRUCTION PHASING ON POWER LINE RELOCATION. THE POWER TO THE LIGHTS ACROSS DEVIL'S BRIGADE DRIVE IS TO BE RELOCATED BEFORE DEMOLISHING EXISTING LINES RUNNING BENEATH BUILDING FOOTPRINT. SEE CD101-P1.
- 7 THE NATURAL GAS CONNECTION TO THE BUILDING IS TO BE COORDINATED WITH THE FT HARRISON VA CAMPUS. THEY ARE THE OWNER OF THE UTILITY AND WILL PROVIDE METERING AND PRESSURE REDUCTION DETAILS.
- 8 4" DOMESTIC WATER CONNECTION OFF MAIN LOOP TO MECHANICAL ROOM. SPLIT INTO FIRE AND DOMESTIC SUPPLY INSIDE MECHANICAL ROOM.
- 9 DAYLIGHT 15" CPP STORM PIPE TO EXISTING RIP RAP SWALE
- 10 CIRCLE REPRESENTS A 150' RADIUS OF COVERAGE AROUND EACH FIRE HYDRANT.
- 11 2" PVC IRRIGATION LOOP PER LANDSCAPE DRAWINGS.
- 12 VERIFY LOCATION OF HIGH PRESSURE NATURAL GAS MAIN AND HAND DIG POST HOLES AS NECESSARY.
- 13 PROPOSED 15" CPP STORM LINE. SEE SHEET CU301-P1 FOR ELEVATIONS. REFERENCE SPECIFICATION 33 40 00 STORM SEWER UTILITIES.
- 14 PROPOSED SANITARY SEWER LINE. SEE CU301-P1 FOR ELEVATIONS. REFERENCE SPECIFICATION 33 30 00 SANITARY SEWER UTILITIES.
- 15 PIPE SLEEVE THROUGH FOUNDATION. SEE DETAIL 02/UC502-P1
- 16 INSULATE 11' OF 8" SEWER DRAIN PVC IN AREA BETWEEN BUILDING AND SANITARY MANHOLE. INSULATION WRAP TO BE 1 1/2" POLYSTYRENE; R-VALUE OF 7.5.
- 17 REFERENCE DETAIL 04/UC502-P1 FOR PARTIAL UTILITY LAYOUT IN THIS AREA.



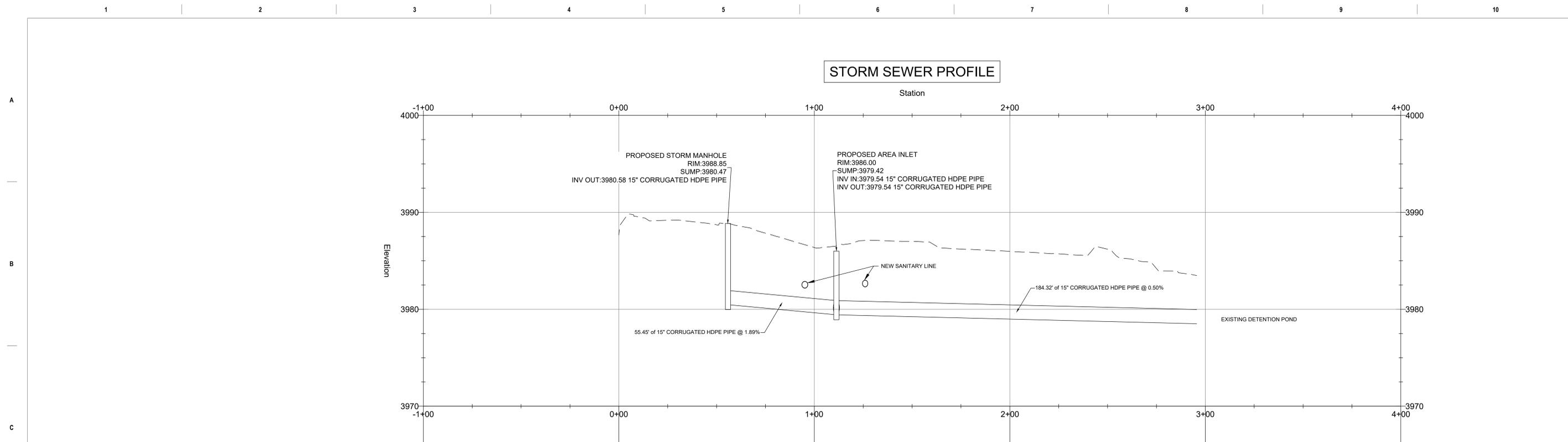
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**LEGEND:**

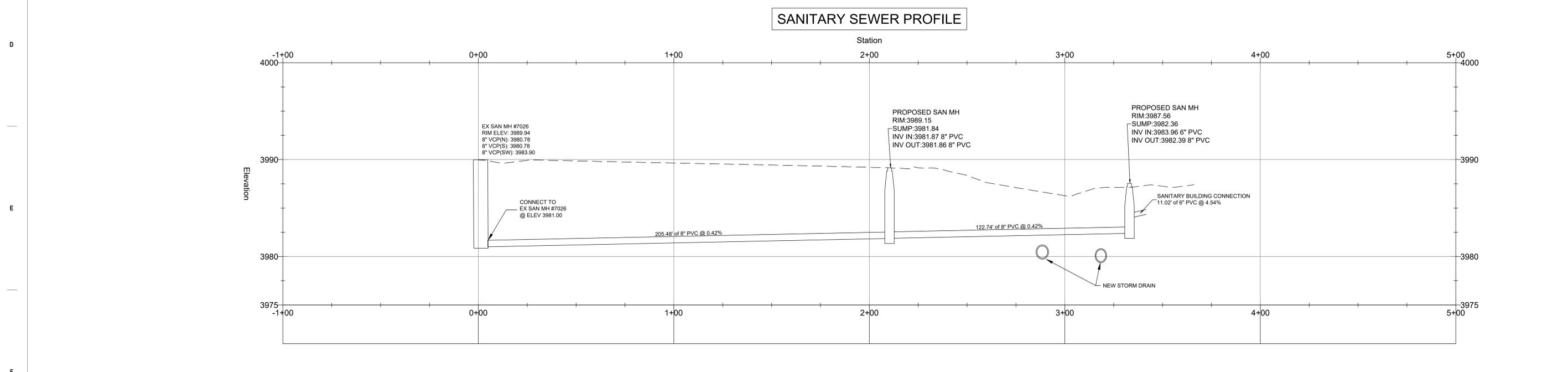
EXISTING BURIED POWER	BP
NEW BURIED POWER	PWR
EXISTING NATURAL GAS	EX GAS
NEW NATURAL GAS	GAS
EXISTING DOMESTIC WATER	W
NEW DOMESTIC WATER	W
EXISTING SANITARY SEWER	SEWER
NEW SANITARY SEWER	SS
EXISTING STORM LINE	ST
NEW STORM LINE	ST
EXISTING LIGHT POLE	Light Pole Symbol
NEW LIGHT POLE	Light Pole Symbol
NEW FIRE HYDRANT	Hydrant Symbol
NEW VALVE	Valve Symbol

1 UTILITY PLAN  
SCALE: 1" = 20'

<p>Issued:</p> <p>VA FORM 08-6231</p>	<p>Date:</p>	<p>CONSULTANTS:</p>	<p>ARCHITECT/ENGINEERS:</p> <p><b>VALHALLA ENGINEERING GROUP, LLC</b></p> <p>750 W HAMPDEN AVE SUITE #300 ENGLEWOOD CO 80110 (720) 550-6307 WWW.VALHALLAENGINEERING.COM</p>	<p>STAMP:</p>		<p>Drawing Title</p> <p><b>UTILITY PLAN</b></p>	<p>Phase</p> <p><b>100% CONSTRUCTION DOCUMENTS</b></p>	<p>Project Title</p> <p><b>OUTPATIENT MENTAL HEALTH / EDUCATION ADDITION</b></p>	<p>Project Number</p> <p><b>436-114</b></p>
		<p>Approved: Project Director</p>	<p>Location</p> <p>3687 VETERANS DRIVE, FORT HARRISON, MT 59636</p>	<p>Issue Date</p> <p>08/05/2020</p>	<p>Checked</p> <p>RAG</p>	<p>Drawn</p> <p>AJH</p>	<p>Building Number</p> <p>173</p>	<p>Drawing Number</p> <p><b>CU101-P1</b></p>	



2 STORM SEWER PROFILE  
SCALE: NO SCALE



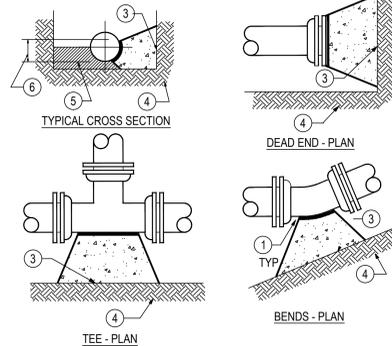
1 SANITARY SEWER PROFILE  
SCALE: NO SCALE

Issued: _____ Date: _____ VA FORM 08-6231	CONSULTANTS:	ARCHITECT/ENGINEERS:	STAMP:	Drawing Title	Phase	Project Title	Project Number
		<b>VALHALLA ENGINEERING GROUP, LLC</b> 750 W HAMPDEN AVE SUITE #300 ENGLEWOOD CO 80110 (720) 550-6307 WWW.VALHALLAENGINEERING.COM	Professional Engineer Samuel G. Lundgren 10120 08/05/2020 WYOMING	<b>U.S. Department of Veterans Affairs</b>	<b>UTILITY PROFILES</b>  Approved: Project Director	100% CONSTRUCTION DOCUMENTS	OUTPATIENT MENTAL HEALTH / EDUCATION ADDITION  436-114
						Location 3687 VETERANS DRIVE, FORT HARRISON, MT 59636	Building Number 173
						Issue Date 08/05/2020	Drawing Number <b>CU301-P1</b>
						Checked RAG	Drawn AJH

- NOTES:**  
 1. BOND BREAKER 10 MIL POLYETHYLENE PLASTIC  
 2. FOR 250 PSI INTERNAL PIPE PRESSURE, MULTIPLY AREAS BY 1.4  
 3. MINIMUM BEARING SURFACE AREA - SQ. FT. (FOR 150 PSI INTERNAL PIPE) BASED ON 3,000 PSF SOIL BEARING CAPACITY.

SIZE OF PIPE	BENDS				TEE or DEAD END
	11 1/4 °	22 1/2 °	45 °	90 °	
4"	1.00	1.00	1.00	2.00	1.50
6"	1.00	1.25	2.25	4.25	3.00
8"	1.00	2.00	4.00	8.00	5.25
12"	2.25	4.50	8.75	12.00	11.25
16"	3.75	7.50	14.50	27.00	19.00
20"	5.00	10.00	19.50	35.50	25.00

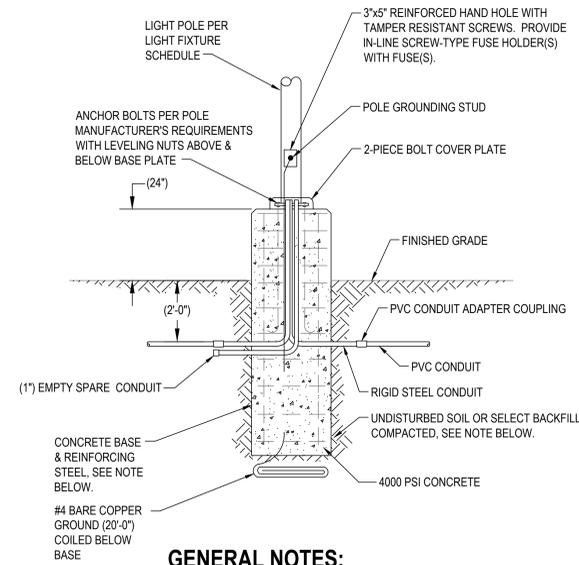
4. UNDISTURBED EARTH  
 5. BEDDING MATERIAL  
 6. 2/3 OD PIPE



**THRUST BLOCK NOTES:**

- CONCRETE SHALL BE 3,000 PSI MIN.
- CONCRETE FOR THRUST BLOCKING SHALL BE KEPT FAIRLY DRY, THUS MAKING THE CONCRETE WEDGE SHAPE MORE EASILY FORMED WITH THE WIDEST PART (BLOCKING AREA) AGAINST UNDISTURBED SOIL.
- NO CONCRETE SHALL COVER ANY BOLTS OR GLANDS.
- ALL FITTINGS AND ACCESSORIES TO BE WRAPPED WITH 10 MIL POLYETHYLENE PRIOR TO POURING BLOCKING.
- VOLUME OF THRUST BLOCKING SHALL BE AS SHOWN ON THE THRUST BLOCKING SCHEDULE.
- THRUST BLOCKING SHALL BE INSTALLED PER HELENA PUBLIC WORKS SPECIFICATIONS.

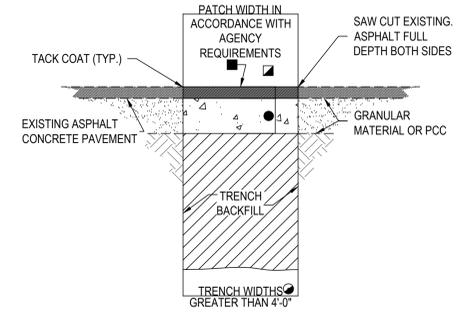
**6 CONCRETE THRUST BLOCKS**  
NTS



**GENERAL NOTES:**

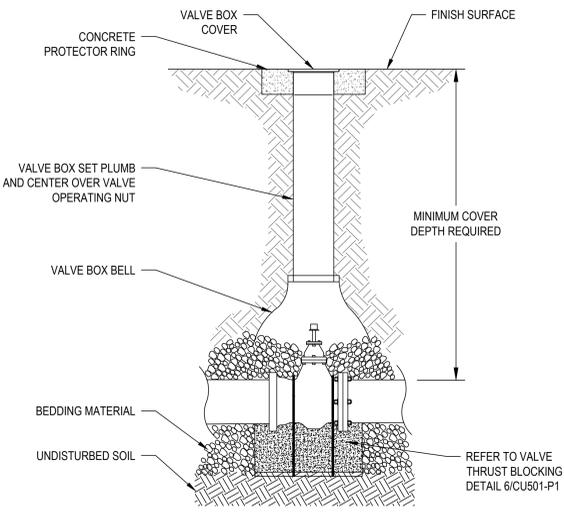
- BACKFILL, CONCRETE, REINFORCING STEEL, AND ANCHOR BOLTS ARE SHOWN FOR REFERENCE ONLY. REFER TO SPECIFICATIONS SECTION 26 56 00 FOR MOUNTING AND LEVELING REQUIREMENTS.
- CONCRETE BASE SHALL BE MINIMUM 18" DIAMETER AND SHALL BE A MINIMUM 4" DEEP. VERIFY EXACT REQUIREMENTS WITH STRUCTURAL ENGINEER OR POLE MANUFACTURER PRIOR TO CONSTRUCTION.

**4 POLE BASE DETAIL - TURF AREAS**  
NTS



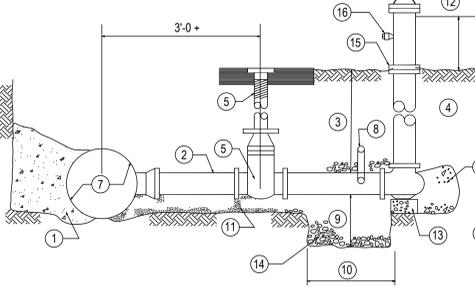
- FOR TRENCH WIDTHS 4' OR LESS REFER TO VA STANDARD DETAIL 32 12 16-01 "TYPE 1 UTILITY TRENCH PATCH". FOR TRENCH WHERE PORTLAND CEMENT CONCRETE (PCC) PAVEMENT EXISTS, REFER TO 32 12 16-03 "TYPE 3 UTILITY TRENCH PATCH".
- 2" MINIMUM OR THICKNESS OF EXISTING PAVEMENT WHICHEVER IS GREATER.
- BITUMINOUS SURFACE TREATMENT (CHIPSEAL) REQUIRED ONLY FOR LONGITUDINAL TRENCHES WITH WIDTHS GREATER THAN 6'.
- 4" 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.

**2 TYPE 2 UTILITY TRENCH PATCH**  
NTS

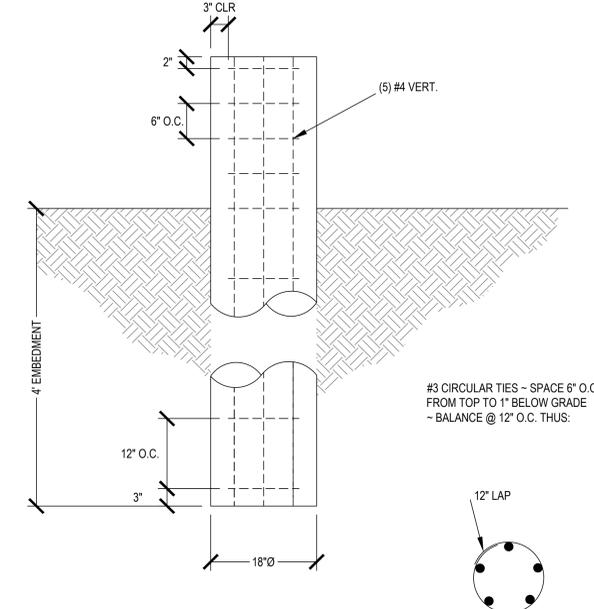


**8 VALVE BOX DETAIL**  
NTS

- NOTES:**  
 1. CONCRETE THRUST BLOCK  
 2. HYDRANT LINE - 6"  
 3. MINIMUM COVER, SEE SPECIFICATIONS  
 4. BACKFILL, SEE SPECIFICATIONS  
 5. VALVE BOX & GATE VALVE  
 6. DO NOT BLOCK FIRE HYDRANT DRAIN WITH BASE  
 7. WATER MAIN - 8"  
 8. WHERE MAIN DEADENDS AT FIRE HYDRANT BETWEEN VALVE BOX & FIRE HYDRANT  
 9. 2'-0"  
 10. 3'-6"  
 11. BEDDING, SEE SPECIFICATIONS  
 12. 5'-0" UNOBSTRUCTED AREA AROUND FIRE HYDRANT: 1'-6" BEHIND  
 13. CONCRETE BLOCK BASE  
 14. HYDRANT DRAIN PIT, 27 CUBIC FEET OF 1 1/2" WASHED ROCK  
 15. BREAKABLE FLANGE 2" ABOVE GROUND SURFACE  
 16. FACE NOZZLE TO TRAVELED WAY  
 17. WHERE INSTALLED IN EXISTING STREET, REMOVE & REPLACE EXISTING IMPROVEMENTS AS REQUIRED



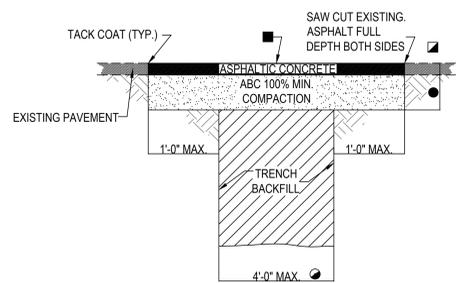
**7 FIRE HYDRANT DETAIL**  
NTS



**5 POLE BASE DETAIL - STRUCTURAL**  
NTS

- MATERIAL AND COMPACTION REQUIREMENTS FOR PIPE BEDDING/SHADING SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS FOR THE APPLICABLE UTILITY PIPE.
  - TRENCH BACKFILL SHALL COMMENCE 1 FOOT ABOVE THE TOP OF PIPE AND SHALL BE PER SPECIFICATION SECTION 31 20 11.
  - BACKFILL COMPACTION REQUIREMENTS SHALL BE PER SECTION 31 20 11.
  - THE 1 FOOT TRENCH "SHOULDER" AREAS SHALL BE DELETED FOR TYPE 2 TRENCHES.
  - ABC SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 32 12 16.
  - PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 32 05 23.
  - ASPHALTIC TACK MATERIAL SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 32 12 16.
  - ASPHALTIC CONCRETE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 32 12 16 FOR THE TYPE SPECIFIED.
  - BITUMINOUS SURFACE TREATMENT (CHIP SEAL) SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 32 12 16 FOR THE TYPE SPECIFIED.
  - 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 SPACING | DOWEL SIZE   | DOWEL LENGTH | DOWEL |
|------------------------|--------------|--------------|-------|
| 6"                     | #5 [No. 16]  | 12"          | 18"   |
| 7"                     | #6 [No. 19]  | 15"          | 15"   |
| 8"                     | #8 [No. 19]  | 15"          | 12"   |
| 10"                    | #10 [No. 19] | 15"          | 12"   |
- DEFORMED TIE BARS SHALL BE USED IN TRENCH PATCHES LONGITUDINAL TO THE ROADWAY CENTERLINE WHEN THE TRENCH LENGTH IS GREATER THAN 50 FEET. TIE BARS SHALL BE 24 INCHES LONG, DEFORMED #4 [No. 13] BARS FOR PCCP LESS THAN 8 INCHES THICK AND #5 [No. 16] BARS IF 8 INCHES THICK OR MORE. TIE BARS SHALL BE PLACED 30 INCHES CENTER-TO-CENTER.
  - HOLES SHALL BE DRILLED 1 FOOT INTO THE EXISTING SLAB FOR TIE BARS AND 7 INCHES 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.
  - IF THE CONCRETE SLAB REMAINING NEXT TO A LONGITUDINAL OR TRANSVERSE JOINT IS LESS THAN 6 FEET AT ITS NARROWEST WIDTH, REMOVE AND REPLACE THE EXISTING CONCRETE TO THE JOINT.

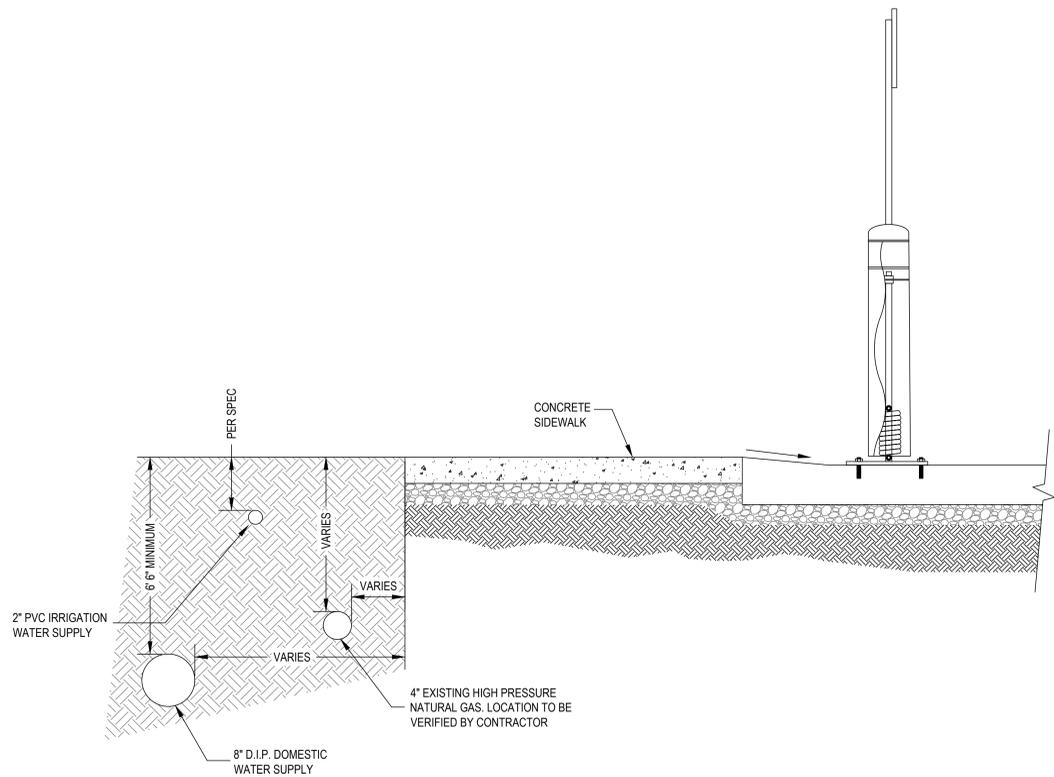
**3 UTILITY TRENCH GENERAL NOTES**  
NTS



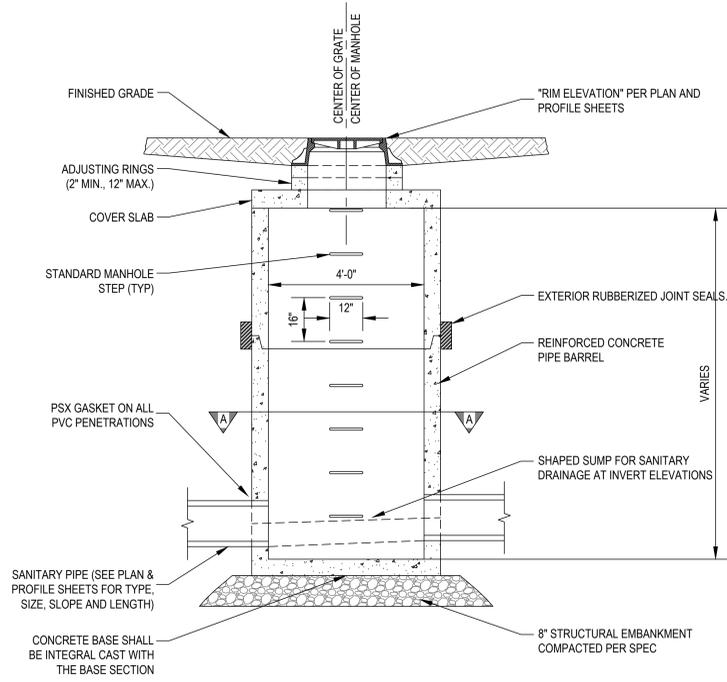
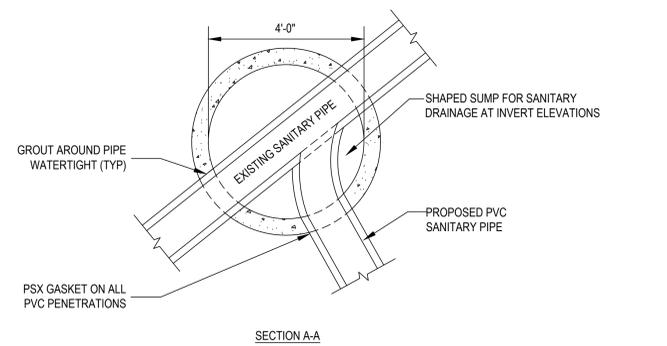
- FOR TRENCH WIDTHS EXCEEDING 4' [1219mm] REFER TO VA STANDARD DETAIL 32 12 16-02 "TYPE 2 UTILITY TRENCH PATCH". FOR TRENCH WHERE PORTLAND CEMENT CONCRETE (PCC) PAVEMENT EXISTS, REFER TO 32 12 16-03 "TYPE 3 UTILITY TRENCH PATCH".
- 2" MINIMUM OR THICKNESS OF EXISTING PAVEMENT WHICHEVER IS GREATER.
-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

**1 TYPE 1 UTILITY TRENCH PATCH**  
NTS

<p>CONSULTANTS:</p>	<p>ARCHITECT/ENGINEERS:</p> <p>750 W HAMPDEN AVE SUITE #300 ENGLEWOOD CO 80110 (720) 550-6307 WWW.VALHALLAENGINEERING.COM</p>	<p>STAMP:</p>	<p>Drawing Title</p> <p><b>UTILITY DETAILS</b></p> <p>Approved: Project Director</p>	<p>Phase</p> <p>100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title</p> <p>OUTPATIENT MENTAL HEALTH / EDUCATION ADDITION</p>	<p>Project Number</p> <p>436-114</p>
						<p>Building Number</p> <p>173</p>
<p>Issue Date</p> <p>08/05/2020</p>	<p>Checked</p> <p>RAG</p>	<p>Drawn</p> <p>AJH</p>	<p>Drawing Number</p> <p>CU501-P1</p>			

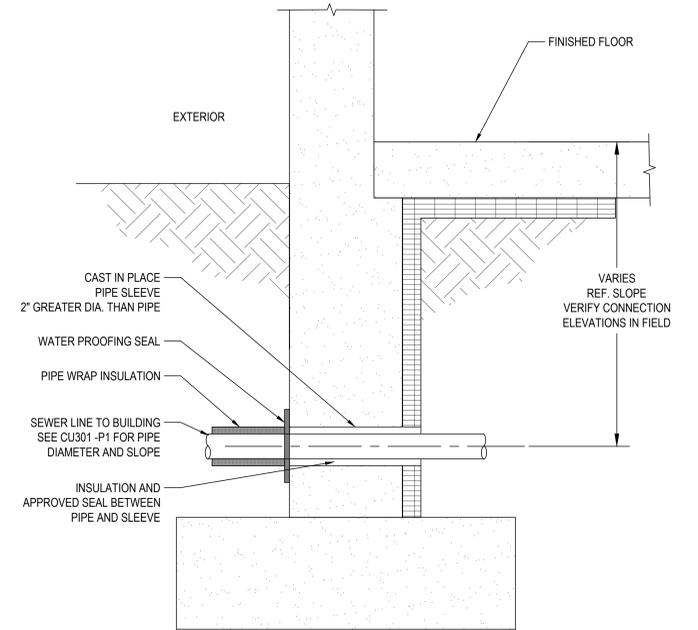


**4** **SIDEWALK UTILITY SECTION**  
NTS

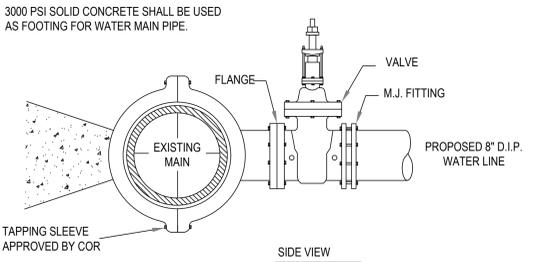
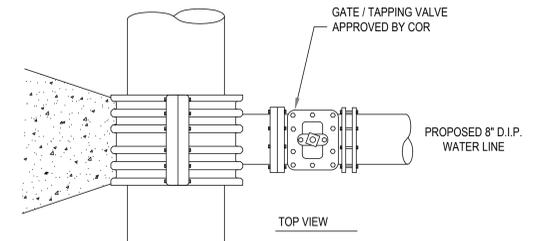


- NOTES:**
1. MANHOLE RING AND GRATE SHALL BE D&L FOUNDRY C-1172 OR APPROVED EQUAL.
  2. AS DESIGNED AND LAID OUT, GRATES ARE TO BE CENTERED ON MANHOLE BARREL.
  3. ALL JOINTS BETWEEN MANHOLE SECTIONS, ADJUSTING RINGS, AND MANHOLE FRAME SHALL BE WATERTIGHT. JOINT MATERIAL SHALL BE "RAM-NEK" OR EQUAL.
  4. PRECAST REINFORCED CONCRETE MANHOLES SHALL CONFORM TO ASTM C-478.
  5. ALL HOLES IN NEW MANHOLES SHALL BE CAST OR CORED.
  6. ADJUST FRAME AND GRATE TO MATCH FINISH GRADE AT MANHOLE LOCATION.
  7. ALL MANHOLES SHALL BE CONSTRUCTED TO HANDLE HS-20 LOADING.
  8. EXTERIOR RUBBERIZED JOINT SEALS, MEETING ASTM C-877 TYPE II WITH A MINIMUM WIDTH OF 9".
  9. PSX GASKET SHALL BE USED ON ALL PVC PIPE PENETRATIONS.
  10. WATERPROOF MANHOLE RINGS & LIDS ARE REQUIRED ON MANHOLES LOCATED IN GUTTER LINES, FLOW LINES, OR OUTSIDE THE ROADWAY.
  11. SANITARY SEWER MANHOLE LIDS IN LANDSCAPED AREAS SHALL BE SLOPED TO DRAIN AWAY FROM LID.
  12. SECTION A-A SHOWS PROPOSED CONNECTION AT EXISTING SANITARY MANHOLE. CONNECTION TO EXISTING MANHOLES WILL BE DRILLED AT SPECIFIED INVERT ELEVATION.

**3** **SANITARY MANHOLE DETAIL**  
NTS



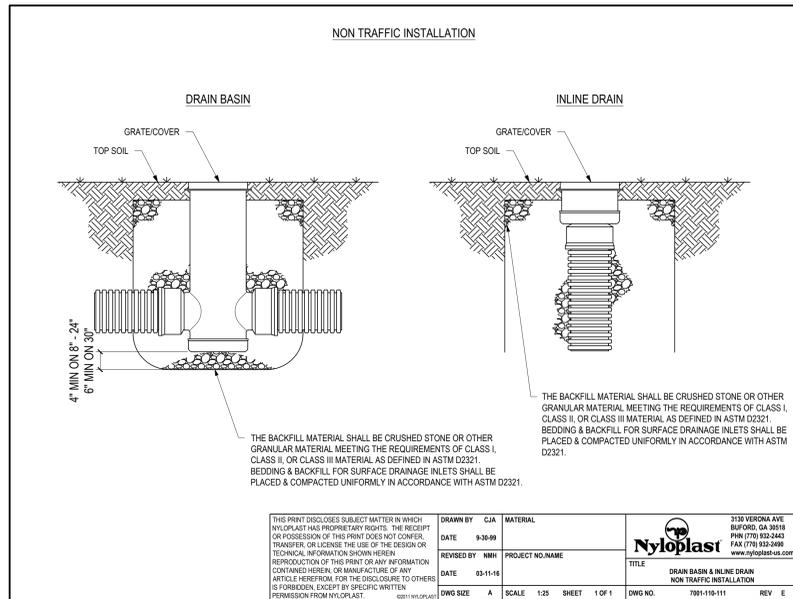
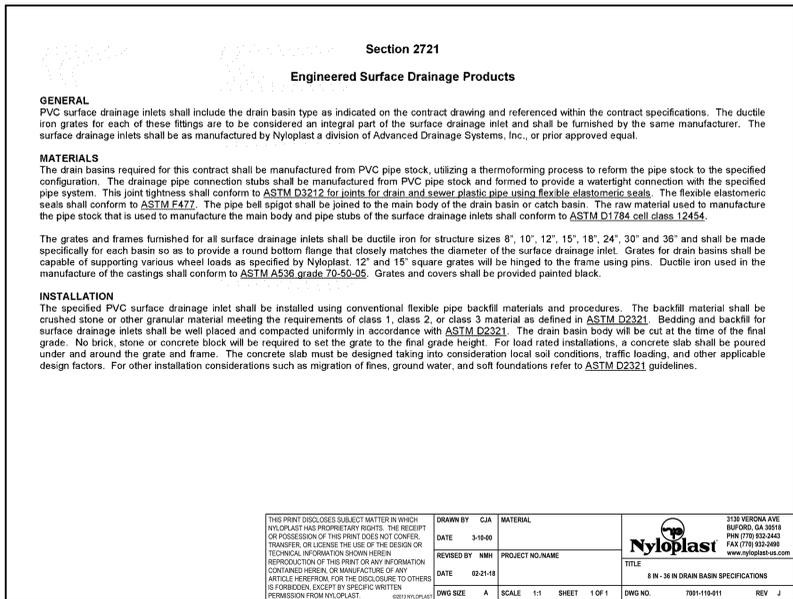
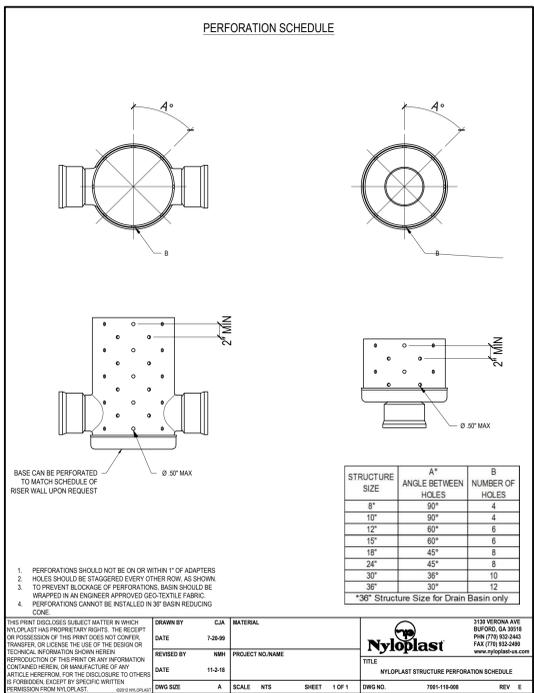
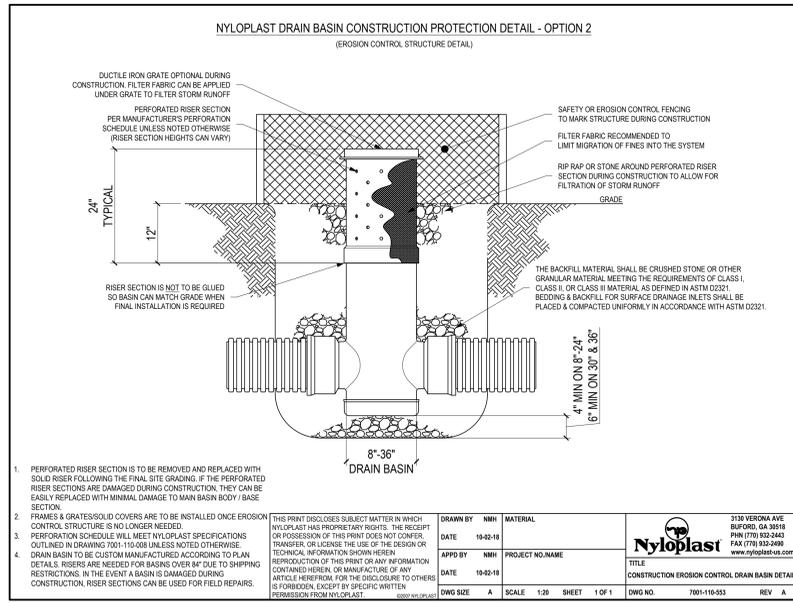
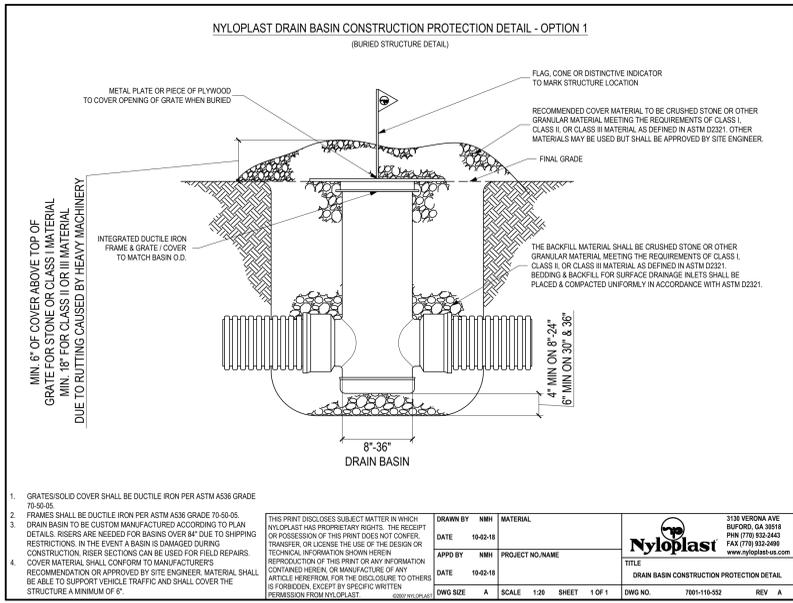
**2** **FOUNDATION PIPE SLEEVE**  
NTS



- NOTES:**
1. CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL JOINT FITTINGS.
  2. SEE THRUST BLOCK DETAIL 6/CU501-P1 FOR AREA OF CONCRETE REQUIRED.

**1** **WATER MAIN TAPPING DETAIL**  
NTS

Issued: _____ Date: _____ VA FORM 08-6231	<b>CONSULTANTS:</b> 	<b>ARCHITECT/ENGINEERS:</b>  750 W HAMPDEN AVE SUITE #300 ENGLEWOOD CO 80110 (720) 550-6307 WWW.VALHALLAENGINEERING.COM	<b>STAMP:</b> 		Drawing Title <b>UTILITY DETAILS</b> Approved: Project Director	Phase 100% CONSTRUCTION DOCUMENTS	Project Title OUTPATIENT MENTAL HEALTH / EDUCATION ADDITION	Project Number 436-114 Building Number 173
	Location 3687 VETERANS DRIVE, FORT HARRISON, MT 59636	Issue Date 10/14/2019	Checked RAG	Drawn AJH	Drawing Number <b>CU502-P1</b>			



**NOTES:**  
STORM SEWER STRUCTURES TO BE NYLOPLAST OR APPROVED EQUAL BY EOR AND/OR VHA COR.

<p>CONSULTANTS:</p>	<p>ARCHITECT/ENGINEERS:</p> <p>750 W HAMPDEN AVE SUITE #300 ENGLEWOOD CO 80110 (720) 550-8307 WWW.VALHALLAENGINEERING.COM</p>	<p>STAMP:</p>	<p>Drawing Title</p> <p><b>UTILITY DETAILS</b></p> <p>Approved: Project Director</p>	<p>Phase</p> <p><b>100% CONSTRUCTION DOCUMENTS</b></p>	<p>Project Title</p> <p><b>OUTPATIENT MENTAL HEALTH / EDUCATION ADDITION</b></p>	<p>Project Number</p> <p><b>436-114</b></p>
<p>Issue Date</p> <p><b>08/05/2020</b></p>	<p>Checked</p> <p><b>RAG</b></p>	<p>Drawn</p> <p><b>AJH</b></p>	<p>Location</p> <p><b>3687 VETERANS DRIVE, FORT HARRISON, MT 59636</b></p>	<p>Drawing Number</p> <p><b>CU503-P1</b></p>		