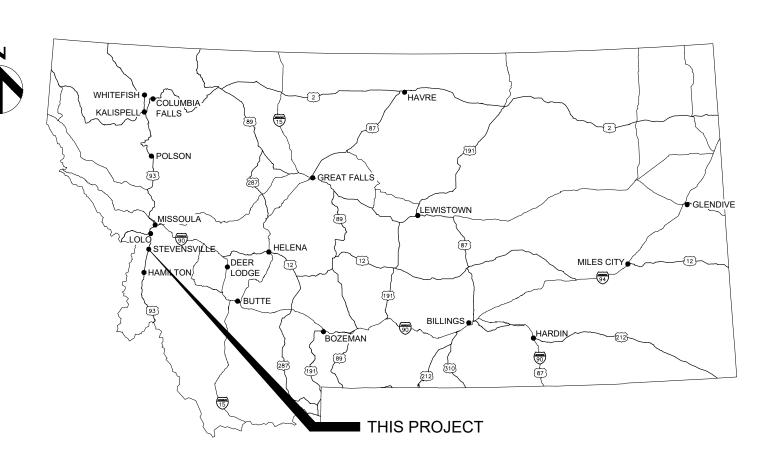




Town of Stevensville, MT



Contract Drawings For

Park Avenue Sewer Main Extension

HDR Project No. 10256142

SEPTEMBER 2021

Stevensville, MT

DIAL BEFORE YOU DIG! CALL ONE CALL LOCATORS #1-800-424-5555

	Survey Control						
Point #	Elevation	Northing	Easting	Description			
16	3369.01	854490.58	815021.28	CP#16 "AC 3153 ES HANSON"			
15	3368.48	854815.47	815122.14	CP#15 POINT AC HANSON			
14	3368.27	855003.92	815132.87	CP#14 ALUM. CAP ON REBAR "31025"			
13	3368.27	854838.64	815043.09	CP#13 YPC			
12	3368.24	854547.91	815025.65	CP#12 5/8" REBAR			
11	3364.71	855932.32	815119.73	CP#11 MAG. SPIKE			
7	3365.76	855584.55	815161.21	CP#7 OPC ON REBAR "WGM COUNROL"			

- G-0 COVER SHEET & DRAWING INDEX
- G-1 NOTES & ABBREVIATIONS
- C-1 PLAN AND PROFILE STA 0+00 STA 7+50
 C-2 PLAN AND PROFILE STA 7+50 STA 15+00
- C-3 UTILITY DETAILS
- C-4 UTILITY DETAILS

VICINITY MAP



UTILITY/CIVIL LINE SYMBOLOGY **ABBREVIATIONS** CIVIL MAPPING SYMBOLOGY AGGREGATE BASE COURSE ABOVE FINISHED GRADE MANHOLF. EMBANKMENT SLOPE (CUT) **GENERAL NOTES:** CULVERT END SYMBOL CMP CULVERT AFG AGGR ALIG ALUM AP APRX APVD AGGREGATE ALIGNMENT MIN MISC (WITH CULVERT SHOWN BETWEEN SYMBOLS) MISCELLANEOUS THESE ABBREVIATIONS APPLY TO THE ENTIRE - CENTERLINE MON ALUMINUM MONUMENT SET OF CONTRACT DRAWINGS ANGLE POINT APPROXIMATE \Box FIRE HYDRANT EMBANKMENT SLOPE (FILL) BOTTOM OF DITCH N NOM NORTH, NORTHING 2. LISTING OF ABBREVIATIONS DOES NOT IMPLY APPROVED NOMINAL THAT ALL ABBREVIATIONS ARE USED IN THE PROPERTY LINE NOMINAL PIPE SIZE AVE AVG AVENUE NPS NTS CONTRACT DRAWINGS. MW MONITORING WELL AVERAGE NOT TO SCALE EMBANKMENT SLOPE RIGHT ARROW RIGHT ----- EASEMENT 3. THIS IS A STANDARD SHEET SHOWING COMMON OD OH OPT OR BITUM BITUMINOUS OUTSIDE DIAMETER **⊚** SYMBOLOGY, ALL SYMBOLS ARE NOT EMBANKMENT SLOPE LEFT ARROW LEFT DRAINAGE INFILTRATION STRUCTURE - LIMITS OF CONSTRUCTION BKG BACKING OVERHEAD NECESSARILY USED ON THIS PROJECT OPTIONAL OUTSIDE RADIUS BC BLDG BUILDING SPOT ELEVATION/POINT # 4. SCREENING OR SHADING OF WORK IS USED TO (S) SANITARY MANHOLE INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO BLK BLOCK PB PC PCC PED PERP BENCHMARK BACK OF CURB PULL BOX POINT OF CURVE — — — EXISTING CONTOUR (MINOR) SURVEY BENCHMARK СВ STORM CATCH BASIN POINT OF COMPOUND CURVATURE BOTTOM OF PIPE CONTEXT OF EACH SHEET FOR USAGE. — 25 — EXISTING CONTOUR W/ELEVATION (MAJOR) BOT BOTTOM PEDESTAL SURVEY CONTROL POINT PERPENDICULAR
POINT OF INTERSECTION СВ STORM ROUND CATCH BASIN PI PL PP PRC PRELIM PROP —————— EXISTING FENCE C&G CURB AND GUTTER PROPERTY LINE HORIZONTAL CONTROL POINT D ◬ STORM DRAINAGE MANHOLE CATCH BASIN POWER POLE EXISTING VEGETATION/BRUSH LINE CUBIC FEET (FOOT) POINT OF REVERSE CURVATURE \odot VERTICAL CONTROL POINT PRELIMINARY **CURB INLET** FENCE - BARB WIRE CAST-IN-PLACE PROPERTY PROPOSED CLR CMH CMP COB COMB PT PVC PVMT CENTERLINE POINT, POINT OF TANGENCY POINT OF VERTICAL CURVE SECTION CORNER MONUMENT CLEAR
COMMUNICATION MANHOLE — FENCE - CHAIN LINK PAVEMENT CORRUGATED METAL PIPE FENCE - FIELD SECTION CORNER NO MONUMENT # CITY OF BILLINGS COMBINATION QTY R&R R&S IDENTIFICATION AND APPROXIMATE REMOVE AND REPLACE CONCRETE CONST COOR CP REMOVE AND SALVAGE RADIUS REINFORCING CONSTRUCTION LOCATION OF SOIL BORE HOLE ——— - FENCE - WOOD COORDINATE CONTROL POINT R REINF $\mathbf{\Phi}_{\mathsf{x}}$ TEST PIT FENCE - WOVEN WIRE REM CTR CENTER REMOVE REQD RET REV RND ROW, R/W CONTROL REQUIRED RETAINING NEW CONTOUR (MINOR \emptyset_{x} SOIL BORING CUBIC YARD REVERSE ROLIND NEW CONTOUR (MAJOR) DEG DEMO DET DEGREE DEMOLITION RIGHT-OF-WAY RAILROAD **~**~~ FLOW ARROW RR RSP RT _____ TOE OF SLOPE DETAIL ROCK SLOPE PROTECTION WATER LEVEL IN SECTION/PROFILE DROP INLET — TOP OF SLOPE DIA DIM DIST DP DWG SOUTH IRRIGATION HEAD DIMENSION CV ____T2____T2____ STORM DRAIN DISTANCE SANITARY SECT SF SECTION SQUARE FOOT \blacksquare WATER MANHOLE SANITARY SEWER SLOPE SL SLTD -SS-SS-SS-SS-SS-SS-SANITARY SEWER SERVICE FAST FASTING SLOTTED TELEPHONE PEDESTAL EL, ELEV ELEC ELEVATION ELECTRICAL SPECIFICATION ___W _____W ____ DOMESTIC WATER SQ SSMH SQUARE Fa FIBER OPTIC PEDESTAL SANITARY SEWER MANHOLE EMH ELECTRICAL MANHOLE NATURAL GAS **ENGINEER** STREET EDGE OF PAVEMENT EXISTING UTILITY POLE —E——E——E—— UNDERGROUND ELECTRICAL STD STL SY STANDARD EQUIV EQUIVALENT STEEL ____T____T___T___TELEPHONE ESTIMATE EXCAVATION SQUARE YARD DOWNGUY F0—F0—F0—FIBER OPTIC TAN
TBM
TCE
TEMP
TOB
TOC
TOPO
TOS
TOW
TP
TRANS
TYP TANGENT EX EXISTING PM POWER METER TEMPORARY BENCHMARK ──────── OVERHEAD POWER FLARED END SECTION TEMPORARY CONSTRUCTION EASEMENT O—∰ FINISHED GRADE EXISTING TRAFFIC SIGNAL ___>___ FLOW LINE TOP OF BANK, TOP OF BERM FIRE HYDRANT TOP OF CURB 0-0 EXISTING STREET LIGHT FLOW, FLOW LINE TOPOGRAPHY TOE OF SLOPE FENCE = FIBER OPTIC EXISTING PULL BOX TOP OF WALL FACE OF CURB FEET, FOOT TELEPHONE POLE TRANSITION MAILBOX TYPICAL GG GND GR GUTTER GRADE GM GROUND GRADE UG UNO UTIL UNDERGROUND UNLESS NOTED OTHERWISE NATURAL GAS METER GVL GW GRAVEL UTILITY \bowtie GUY WIRE VC VCT VERT VERTICAL CURVE VERTICAL CENTERLINE HORIZONTAL CURVE VERTICAL INTERSTATE HIGHWAY SYMBOL HORIZ, HORZ HMA VERIFY IN FIELD
VOLUME
VERTICAL POINT OF CURVATURE HORIZONTAL HOT MILLED ASPHALT (xxx) HIGH POINT US HIGHWAY SYMBOL HORIZONTAL POINT OF CURVATURE VERTICAL POINT OF INTERSECTION HORIZONTAL POINT OF TANGENCY VERTICAL POINT OF TANGENCY (xxx) STATE HIGHWAY SYMBOL HIGH WATER LEVEL WEST HWL WIDTH WATER LEVEL HYD RAIL SIGNAL INSIDE DIAMETER WATER SURFACE INVERT ELEVATION WEIGHT WELDED WIRE FABRIC RAIL SWITCH INCLUDE XSECT CROSS SECTION INVERT SIGN INSIDE RADIUS LENGTH LANDING LIGHT EMITTING DIODE LINEAR FOOT LINEAR LOW POINT



			PROJECT MANAGER		
			DESIGNER 1	J. MORAN	
			DRAWN BY	R. PARKE	
			CHECKED BY		
-	SEPT 2021	DEQ SUBMITTAL - REVISION NO. 1			
-	JULY 2021	DEQ SUBMITTAL			
-	MAY 2021	90% DRAWINGS			
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10256142	







Park Avenue **Sewer Main Extension**

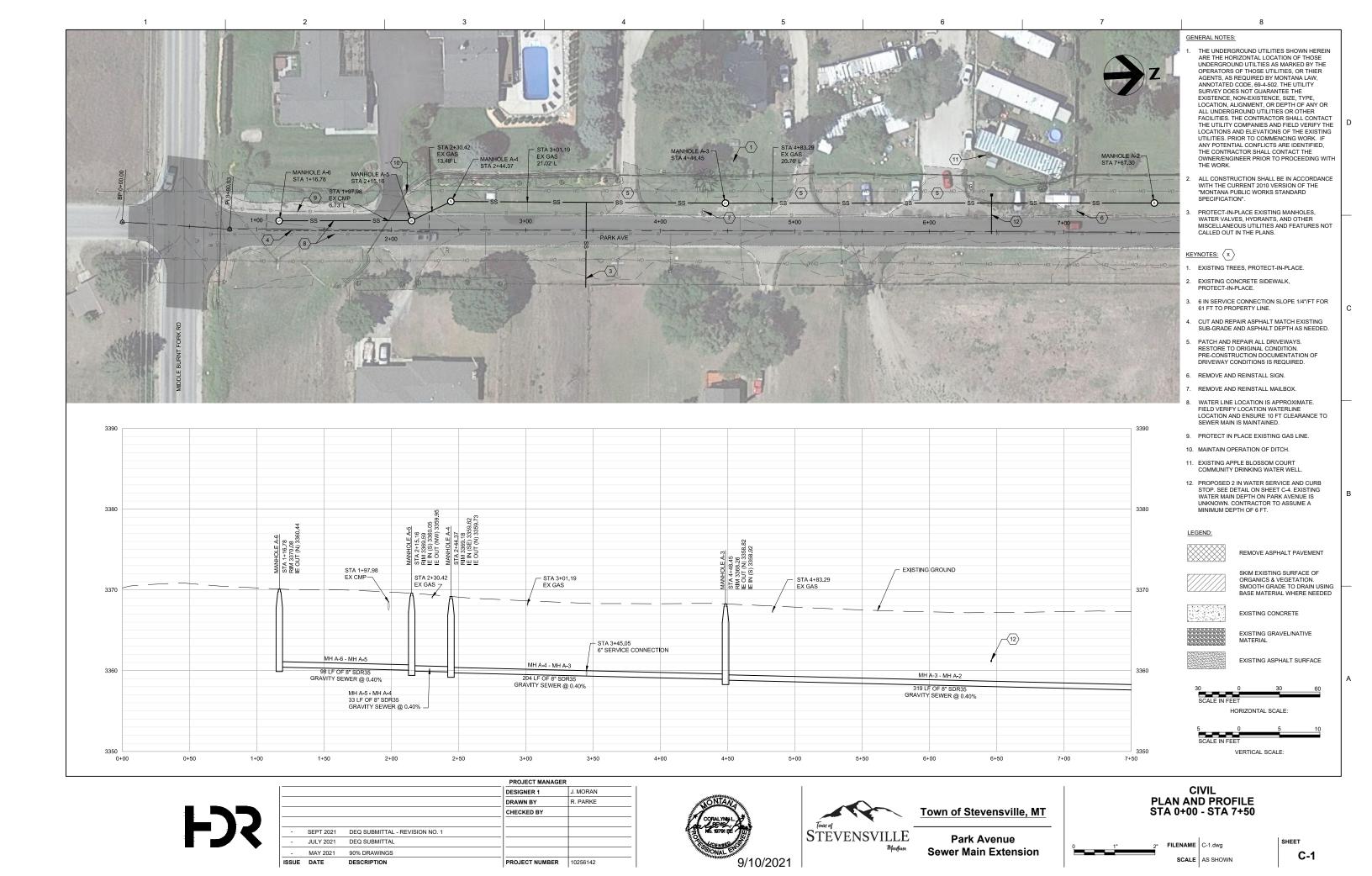
	GENERAL
NOTES	& ABBREVIATIONS

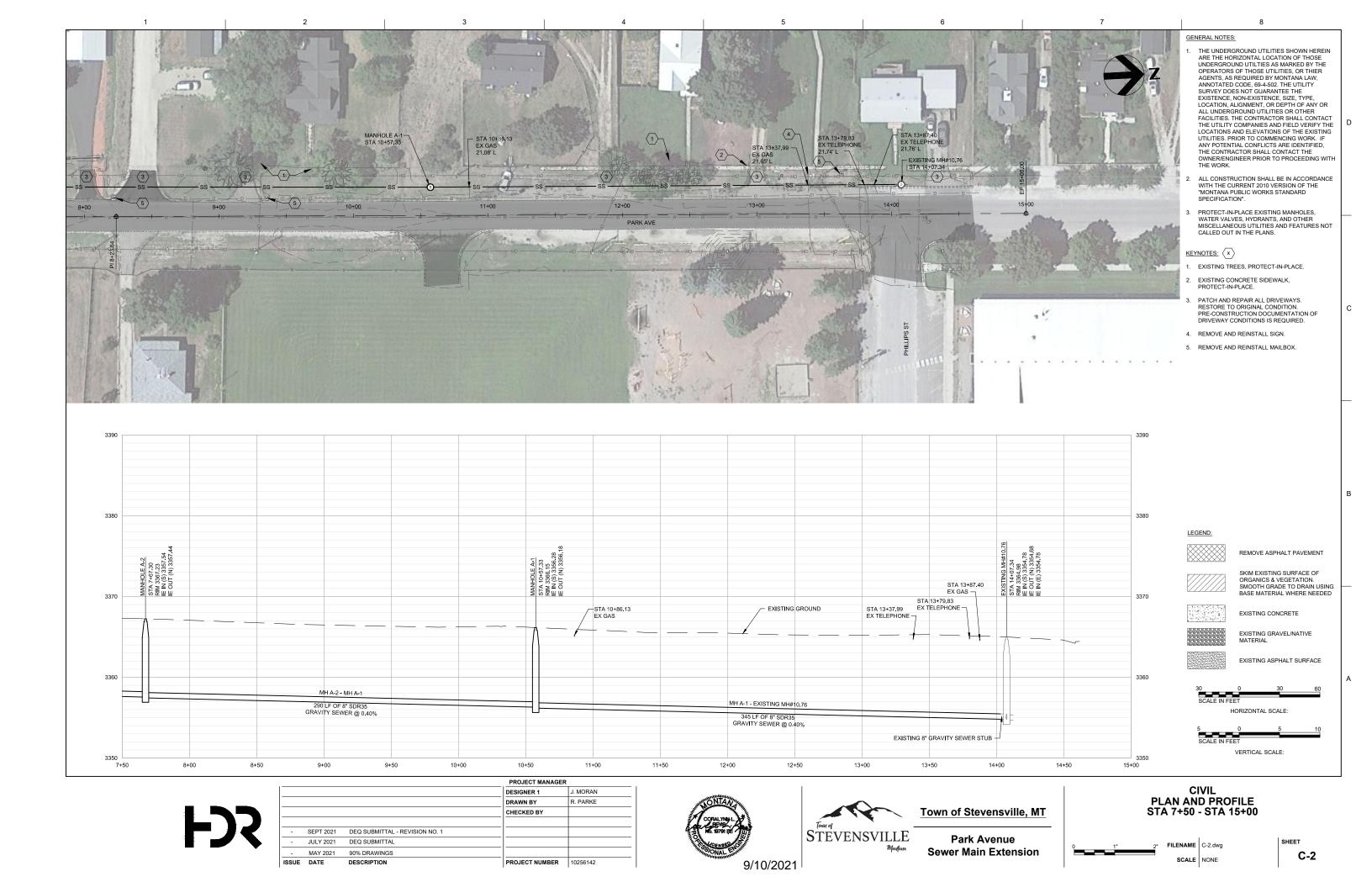


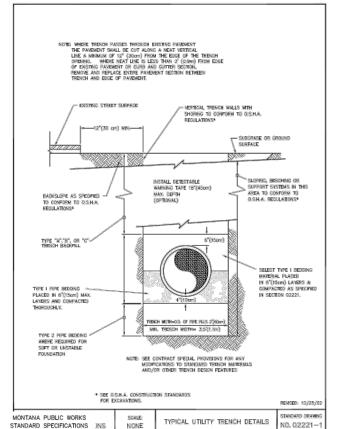
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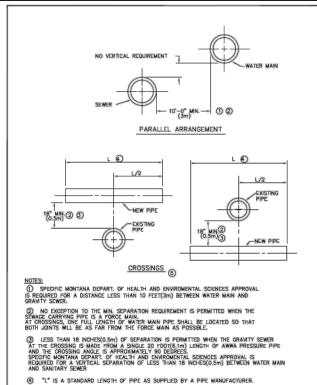
SHEET

G-1









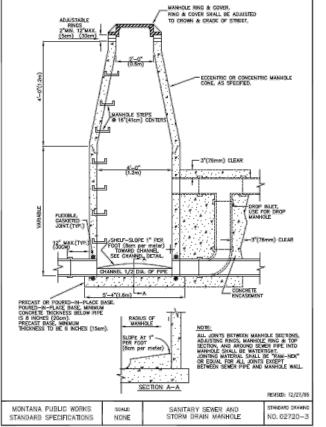
3 ADEQUATE STRUCTURAL SUPPORT FOR PIPES AT CROSSINGS SHALL BE PROVIDED.

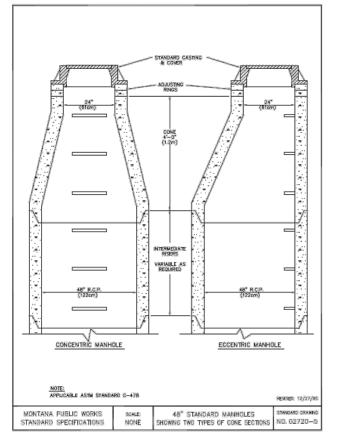
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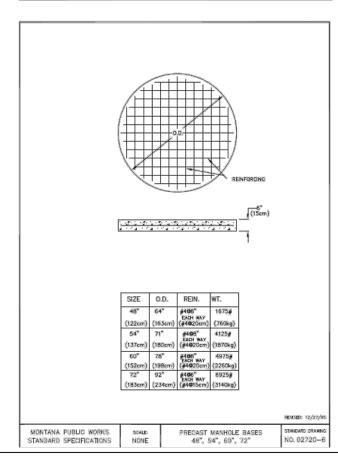
WATER AND SEWER MAIN SEPARATION

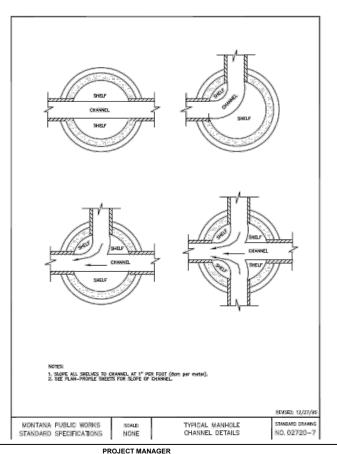
TANDARD DRAWN

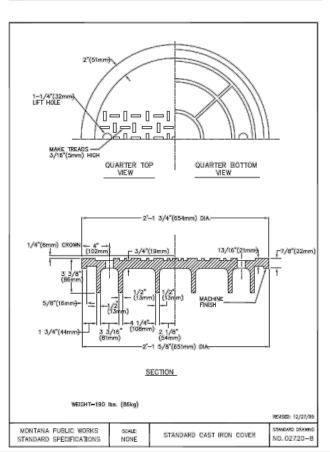
MONTANA PUBLIC WORKS STANDARD SPECIFICATIONS

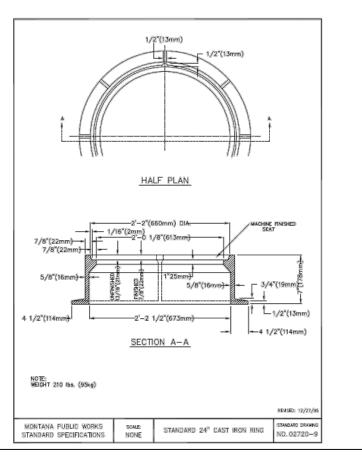














FROJECT MA			FROJECT MANAGEN	<u> </u>
			DESIGNER 1	J. MORAN
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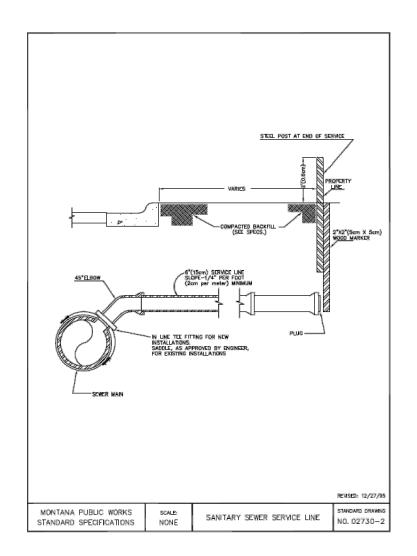
Park Avenue **Sewer Main Extension** CIVIL UTILITY DETAILS

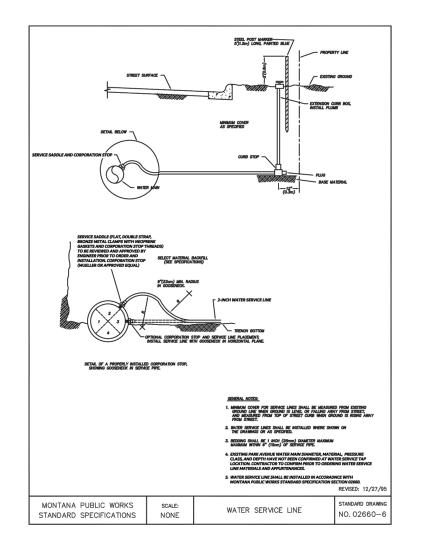
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SCALE NONE

C-3

1 2 3 4 5 6 7





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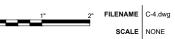
J. MORAN R. PARKE
R. PARKE
R 10256142
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Town of Stevensville, MT

Park Avenue Sewer Main Extension CIVIL UTILITY DETAILS



C-