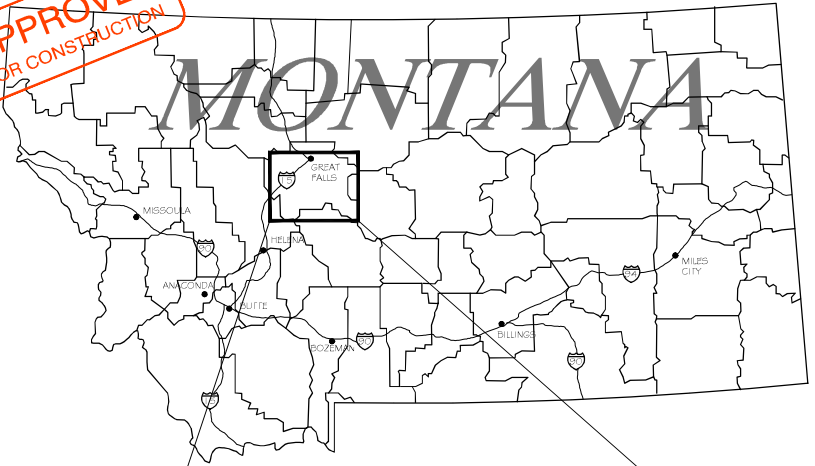


**APPROVED
FOR CONSTRUCTION**



CARPENTER CREEK FISH BARRIER CASCADE COUNTY, MT



PREPARED FOR

**NORTHWESTERN ENERGY &
MONTANA DEPARTMENT OF
FISH, WILDLIFE, AND PARKS**



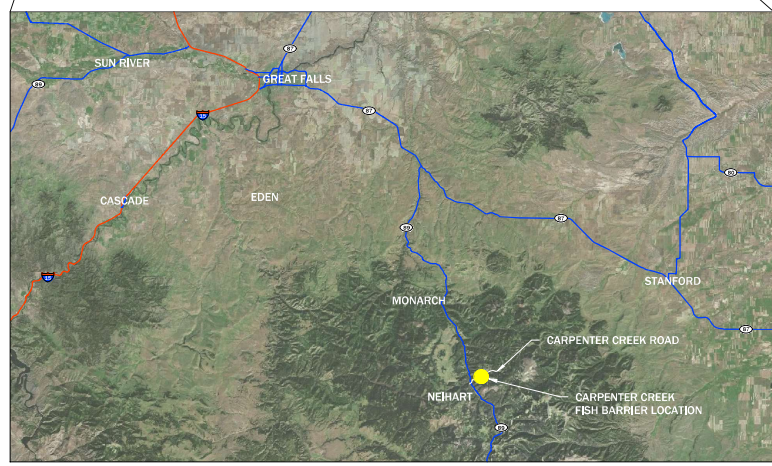
PREPARED BY



JULY 20, 2022

SHEET INDEX

SHEET NO.	DESCRIPTION
1	COVER SHEET AND INDEX
2	LEGEND AND ABBREVIATIONS
3	FISH BARRIER SITE LOCATION
4	FISH BARRIER EXCAVATION PLAN
5	FISH BARRIER STRUCTURE PLAN
6	FISH BARRIER CROSS SECTION AND PROFILE
7	FISH BARRIER BACKFILL PLAN
8	STRUCTURAL DETAILS
9	STRUCTURAL DETAILS
10	FISH BARRIER BACKFILL TYPICAL SECTIONS AND DETAIL

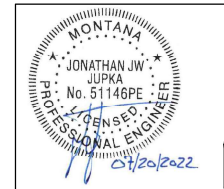


SITE VICINITY MAP

**APPROVED FOR
CONSTRUCTION**

[Signature]

07/20/2022
DATE

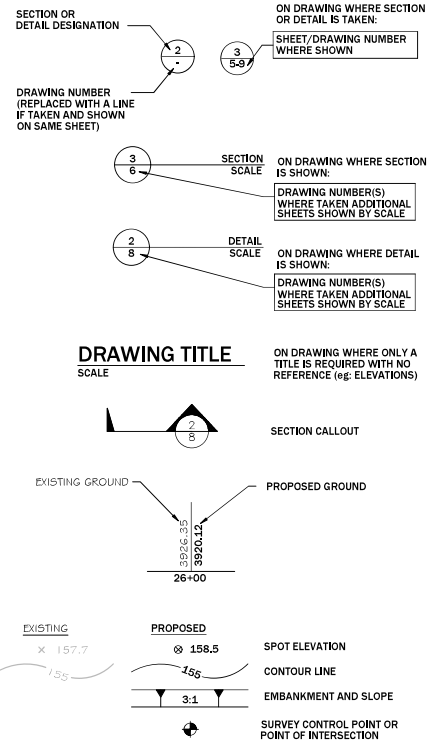


**SHEET
1**

ABBREVIATIONS

AB	ANCHOR BOLT, ABOVE	FLG	FLANGE	PRES	PRESSURE
ABDN	ABANDON	FL	FLOOR	PRI	PRIMARY
AC	ASPHALTIC CONCRETE	FLEX	FLEXIBLE	PROP	PROPERTY
AD	AREA DRAIN	FNSH	FINISH	PSF	POUNDS PER SQUARE FOOT
ADDL	ADDITIONAL	FOB	FLAT ON BOTTOM	PSI	POUNDS PER SQUARE INCH
ADJ	ADJACENT	FP	FIELD PANEL	PSIG	POUNDS PER SQUARE INCH, GAUGE
AGGR	AGGREGATE	FPL	FROST PROTECTION LAYER	PT	POINT OF TANGENCY
AHR	ANCHOR	PFM	FEET PER MINUTE	PT	PRESSURE TREATED
AJ	ADJUSTABLE	FT	FOOT OR FEET	PVI	POINT OF VERTICAL INTERSECTION
APPROX	APPROXIMATE	FWD	FORWARD	PVMT	PAVEMENT
APVD	APPROVED	G, GND	GROUND	PVT	POINT OF VERTICAL TANGENCY
AUTO	AUTOMATIC	GA	GAUGE	R OR RAD	RADIUS
AUX	AUXILIARY	GAL	GALLON	RC	REINFORCED CONCRETE
AVG	AVERAGE	GALV	GALVANIZED	RDCR	REDUCER
@	AT	GC	GROOVED COUPLING	REF	REFER OR REFERENCE
BETW	BETWEEN	GCL	GEOSYNTHETIC CLAY LINER	REINF	REINFORCED, REINFORCING, REINFORCE
BF	BLIND FLANGE, BOTTOM FACE	GVL	GRAVEL	REQD	REQUIRED
BG	BELOW GRADE	HDPE	HIGH DENSITY POLYETHYLENE	RH	RIGHT HAND
BLDG	BUILDING	HH	HANDHOLE	RHR	RIGHT HAND REVERSE
BLK	BLOCK	HORIZ	HORIZONTAL	RPE	REINFORCED POLYETHYLENE
BM	BEAM, BENCHMARK	HP	HORSEPOWER	RST	REINFORCING STEEL
BOT	BOTTOM	HPT	HIGH POINT	RT	RIGHT
BRG	BEARING	HWL	HIGH WATER LEVEL	RTN	RETURN
BRKR	BREAKER	IE	INVERT ELEVATION	R/W	RIGHT OF WAY
BVC	BEGINNING OF VERTICAL CURVE	I.F.	INSIDE FACE	S	SWITCH
C	CONDUIT, CASEMENT	IN	INCHES	SB	SEDIMENT BASIN
C TO C	CENTER TO CENTER	INVT	INVERT	SCHED	SCHEDULE
CAB	CABINET	IP	INLET PROTECTION	SEC	SECONDARY
CB	CATCH BASIN, CIRCUIT BREAKER	IRRI	IRRIGATION	SEC	SECONDARY
CC	CONTROL CABLE	JB	JUNCTION BOX	SED	SEDIMENTATION
CCL	COMPACTED CLAY LAYER	JCT	JUNCTION	SH	SHEET
CCP	CENTRAL CONTROL PANEL	JT	JOINT	SIM	SIMILAR
CCS	CENTRAL CONTROL SYSTEM	L	ANGLE, LENGTH	SPEC, SPECS	SPECIFICATIONS
CDN	COMPOSITE DRAINAGE NET	L(S)	LB(S) POUNDS	SQ	SQUARE
CIP	CAST IN PLACE	LDS	LEAK DETECTION SYSTEM	SQ FT	SQUARE FOOT, FEET
CJP	CULVERT INLET PROTECTION	LF	LINEAR FEET	SQ IN	SQUARE INCH
CJ	CONSTRUCTION JOINT	LG	LONG	ST	STRAIGHT
CL	CENTERLINE	LONG	LONGITUDINAL	STA	STATION
CLSF	CONTROLLED LOW STRENGTH FILL	LP	LIGHT POLE	STD	STANDARD
CLR	CLEAR, CLEARANCE	LPT	LOW POINT	STL	STEEL
CMP	CORRUGATED METAL PIPE	LR	LONG RADIUS	STRUCT	STRUCTURE
CO	CLEANOUT, CARBON MONOXIDE	LT	LEFT	T&B	TOP AND BOTTOM
CONC	CONCRETE	LTG, LTS	LIGHTS OR LIGHTING	TAN	TANGENT
CONN	CONNECTION	MATL	MATERIAL	TBC	TEMPORARY BYPASS CHANNEL
CONSTR	CONSTRUCTION	MAX	MAXIMUM	TECH	TECHNICAL
CONT	CONTINUED, CONTINUATION	MECH	MECHANICAL	TEL	TELEPHONE
COORD	COORDINATE	MFD	MANUFACTURED	TEMP	TEMPORARY, TEMPERATURE
CP	CONTROL POINT	MFR	MANUFACTURER	THK	THICKNESS
CRS	COLD ROLLED STEEL	MH	MANHOLE, MOUNTING HEIGHT	THRU	THROUGH
CRS	CONSTRUCTION ROAD STABILIZATION	MIN	MINIMUM	TCC	TOP OF CONCRETE
CTR	CENTER	MISC	MISCELLANEOUS	TOS	TOP OF SLAB
CTRD	CENTERED	MS	MANUFACTURER'S STANDARD	TOW	TOP OF WALL
CU	CUBIC	MT	MOUNT	TP	TURNING POINT
CU FT	CUBIC FOOT	MTD	MOUNTED	TRANSV	TRANSVERSE
CU IN	CUBIC INCH	MTG	MOUNTING	TX	TRANSVERSE
CY, CU YD	CUBIC YARD	MU	MULCHING	TY	TYPICAL
DET	DETAIL	MWS	MAXIMUM WATER SURFACE	UN	UNLESS OTHERWISE NOTED
DIA	DIAMETER	N	NORTH	VC	VERTICAL CURVE
DIAG	DIAGONAL	NA	NOT APPLICABLE	VERT	VERTICAL
DIR	DIRECTION	NEUT	NEUTRAL	VPC	POINT OF VERTICAL CURVATURE
DISCH	DISCHARGE	NG	NATURAL GAS	VPI	POINT OF VERTICAL INTERSECTION
DWG	DRAWING	NGVD	NATIONAL GEODETIC VERTICAL DATUM	VPT	POINT OF VERTICAL TANGENT
Δ	DELTA	NIC	NOT IN CONTRACT	W	WEST
E	EAST, EMPTY	N.O.	NORMALLY OPEN	W/	WITH
EA	EACH	NO., #	NUMBER		
EF	EACH FACE	NOM	NOMINAL		
EL	ELEVATION	NS	NORTH-SOUTH		
ELB	ELBOW	NTS	NOT TO SCALE		
ELC	ELECTRICAL LOAD CENTER	OC	ON CENTER		
ELEC	ELECTRIC, ELECTRICAL	OD	OUTSIDE DIAMETER		
ENGR	ENGINEER	OF	OVERFLOW		
EQL SP	EQUALLY SPACED	O.F.	OUTSIDE FACE		
EQPT	EQUIPMENT	OPNG	OPENING		
ESC	EROSION AND SEDIMENT CONTROL	OPP	OPPOSITE		
EVC	END OF VERTICAL CURVE	OZ	OUNCE		
EW	EACH WAY	PC	POINT OF CURVE		
EXP	EXPANSION, EXPOSED	PCF	POUNDS PER CUBIC FOOT		
EXP AB	EXPANSION ANCHOR BOLT	PI	POINT OF INTERSECTION		
EXP JT	EXPANSION JOINT	PJF	PREMOULDED JOINT FILLER		
EXST, EXIST	EXISTING	PL	PROPERTY LINE		
EXT	EXTERIOR	PLYWD	PLYWOOD		
FC	FLEXIBLE CONDUIT/ CONNECTOR	PMP	PUMP		
FCA	FLANGED COUPLING ADAPTER	PNL	PANEL		
FDN	FOUNDATION	POE	POINT OF ENDING		
FG	FINISH GRADE	PP	POWER POLE		
FHY	FIRE HYDRANT	PR	PAIR		
FIG	FIGURE	PRC	POINT OF REVERSE CURVE		
FL	FLOW LINE	PRCST	PRECAST		

LEGEND



- NOTES:**
- CONTACT ENGINEER FOR ABBREVIATIONS USED BUT NOT SHOWN ON THIS DRAWING.

GENERAL SITE

- SOURCE OF TOPOGRAPHY SHOWN ON THE CIVIL PLANS ARE FROM LIMITED SURVEY DATA. EXISTING CONDITIONS MAY VARY FROM THOSE SHOWN ON THESE PLANS. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND ADJUST WORK PLAN ACCORDINGLY PRIOR TO BEGINNING CONSTRUCTION.
- EXISTING TOPOGRAPHY, STRUCTURES, AND SITE FEATURES ARE SHOWN SCREENED AND/OR LIGHT-LINED. NEW FINISH GRADE, STRUCTURES, AND SITE FEATURES ARE SHOWN HEAVY-LINED.
- HORIZONTAL DATUM: NAD 83, MONTANA STATE PLANE COORDINATE SYSTEM, INTERNATIONAL FEET.
- VERTICAL DATUM: NAVD 88, U.S. SURVEY FEET.
- MAINTAIN, RELOCATE, OR REPLACE EXISTING SURVEY MONUMENTS, CONTROL POINTS, AND STAKES WHICH ARE DISTURBED OR DESTROYED. PERFORM THE WORK TO PRODUCE THE SAME LEVEL OF ACCURACY AS THE ORIGINAL MONUMENT(S) IN A TIMELY MANNER, AND AT THE CONTRACTOR'S EXPENSE.
- STAGING AREA SHALL BE FOR CONTRACTOR'S EMPLOYEE PARKING, CONTRACTOR'S TRAILERS AND ON-SITE STORAGE OF MATERIALS.
- PROVIDE TEMPORARY FENCING AS NECESSARY TO MAINTAIN SECURITY AT ALL TIMES.
- ELEVATIONS GIVEN ARE TO FINISH GRADE UNLESS OTHERWISE NOTED.
- SLOPE UNIFORMLY BETWEEN CONTOURS AND SPOT ELEVATIONS SHOWN.
- EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED AND INSPECTED AS STATED IN THE APPROVED EROSION AND SEDIMENTATION PLAN APPROVED IN THE STORMWATER DISCHARGE PERMIT.
- ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY WITH THE FIELD SAFETY INSTRUCTIONS APPROVED (FSI) FOR THIS SITE AT ALL TIMES.
- EXISTING SITE DRAINAGE FLOW PATTERNS/DIRECTIONS SHALL BE MAINTAINED UNLESS OTHERWISE INDICATED ON THE PLANS.
- CONSTRUCTION ACTIVITY BY OTHERS MAY IMPACT THE WORK COMPLETED WITHIN THIS PACKAGE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF A CONFLICT ARISES RELATING TO THE PROGRESS OF THE WORK. FINAL COORDINATION/RESOLUTION OF SUCH CONFLICTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTORS INVOLVED.
- ACCESS TO THE GENERAL SITE, AND TO SPECIFIC WORK AREAS SHALL BE LIMITED TO THE LOCATIONS SHOWN ON THE PLANS.
- WATER FOR CONSTRUCTION ACTIVITIES SHALL BE OBTAINED BY THE CONTRACTOR AT THEIR SOLE EXPENSE. ANY AND ALL PERMITS REQUIRED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

APPROVED FOR CONSTRUCTION

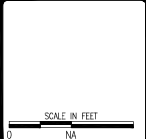
GENERAL NOTE:

- THIS IS A STANDARD LEGEND SHEET. THEREFORE, NOT ALL OF THE INFORMATION SHOWN MAY BE USED ON THIS PROJECT.
- EXISTING FEATURES AND UTILITIES ARE SHOWN ON THE PLANS BASED UPON INFORMATION AVAILABLE AT THE TIME THE PLANS WERE PREPARED. SHOULD UNIDENTIFIED UTILITY OR SERVICE ELEMENTS BE ENCOUNTERED, NOTIFY THE ENGINEER AND THE APPROPRIATE UTILITY OWNER IMMEDIATELY.

REVISION	DATE	BY	DESC.

DRAWN BY	JAC
CHECKED BY	JAC
APPROVED BY	JAC
PROJECT NO.	
DATE	7/20/2022

DELETED AS	
COORD SYS ZONE	NAD
UNITS	FEET
SOURCE	RECONER



MT FWP
CARPENTER CREEK
FISH BARRIER

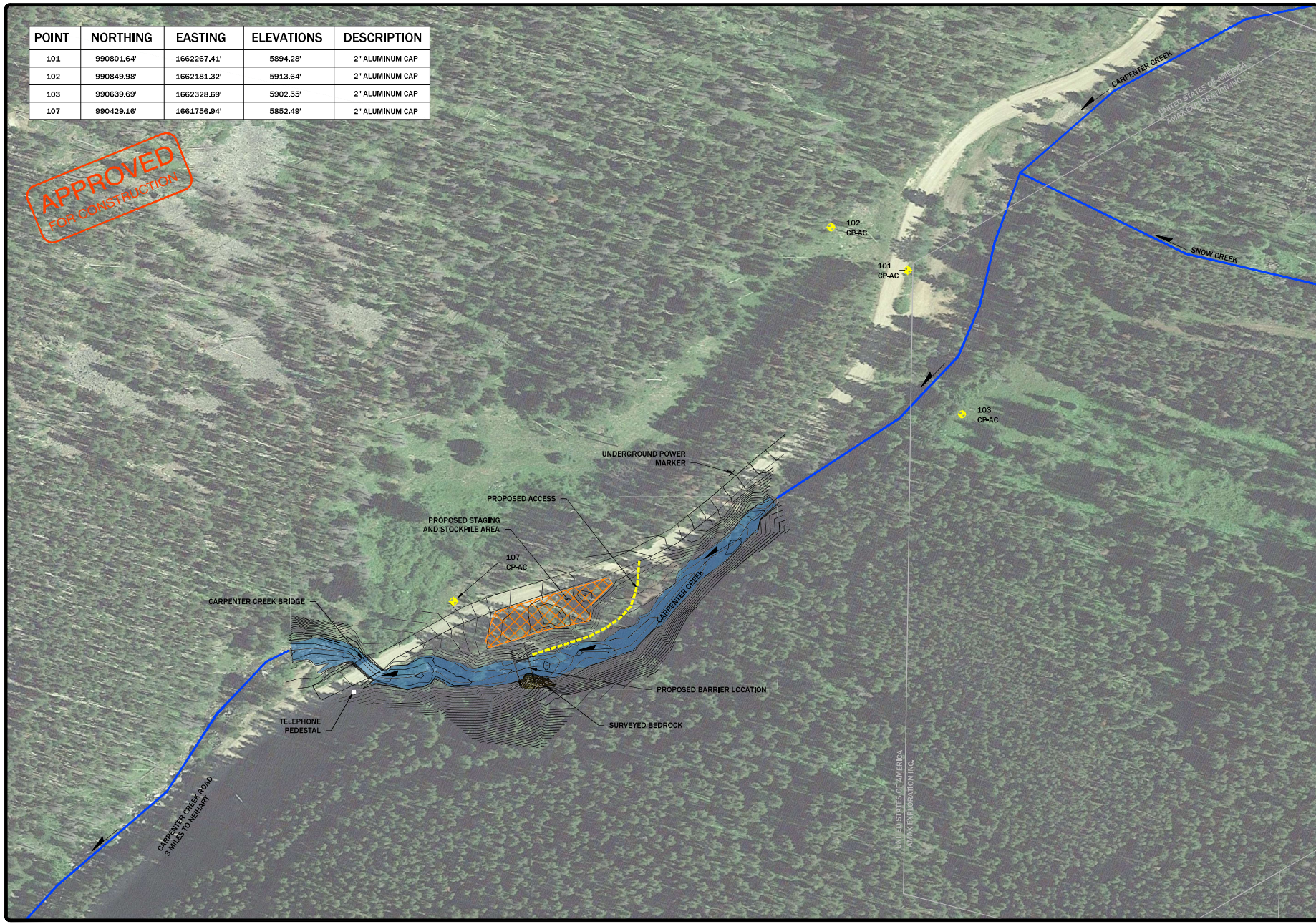
CARPENTER CREEK
FISH BARRIER
LEGEND AND
ABBREVIATIONS



SHEET
2

POINT	NORTHING	EASTING	ELEVATIONS	DESCRIPTION
101	990801.64'	1662267.41'	5894.28'	2" ALUMINUM CAP
102	990849.98'	1662181.32'	5913.64'	2" ALUMINUM CAP
103	990639.69'	1662328.69'	5902.55'	2" ALUMINUM CAP
107	990429.16'	1661756.94'	5852.49'	2" ALUMINUM CAP

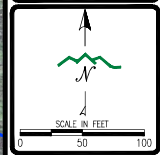
**APPROVED
FOR CONSTRUCTION**



REVISION	DATE	BY	DESC

DRAWN BY: JAC
 DESIGNED BY: JAC
 CHECKED BY: SEA
 APPROVED BY: JJJ
 PROJECT NO: 2021-001
 DATE: 7/20/2022

DEPILATED AS:
 COORD SYS / ZONE: NAD83
 DATUM: NAD83 HANDBOOK
 UNITS: INT. FEET
 SOURCE: FIELD



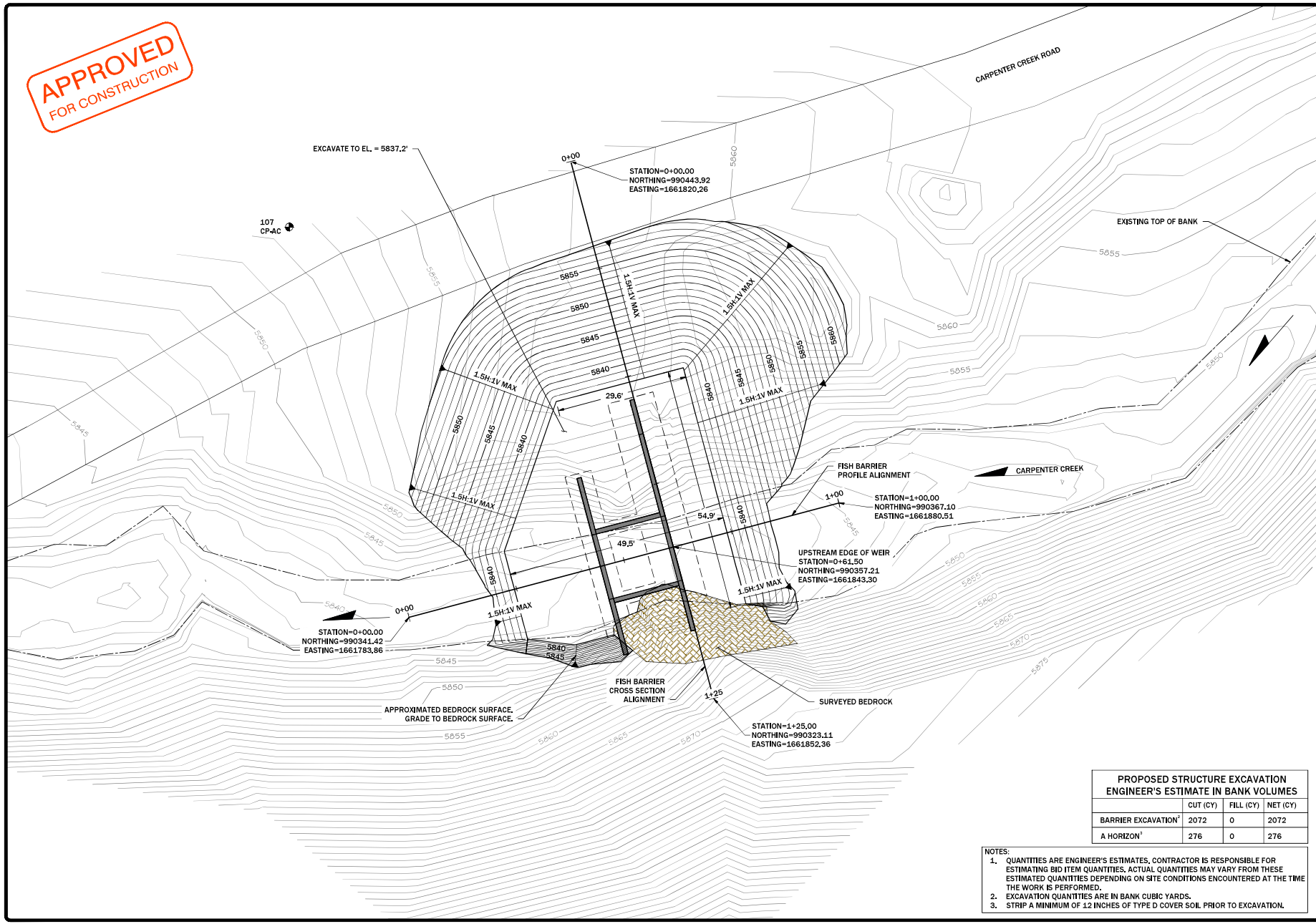
MT FWP
 CARPENTER CREEK
 FISH BARRIER

CARPENTER CREEK
 FISH BARRIER
 SITE LOCATION



SHEET
 3

APPROVED
FOR CONSTRUCTION



REV/NO	DATE	BY	DESC

DRAWN BY: JAC
DESIGNED BY: JAC
CHECKED BY: SEA
APPROVED BY: JJJ
PROJECT NO.:
DATE: 7/20/2022

DISPLAYED AS:
COORD SYS / ZONE: NAD83
UNITS: IN / FEET
SOURCE: FIELD

SCALE IN FEET
0 10 20

MT FWP
CARPENTER CREEK
FISH BARRIER

CARPENTER CREEK
FISH BARRIER
EXCAVATION PLAN

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(408) 782-5177

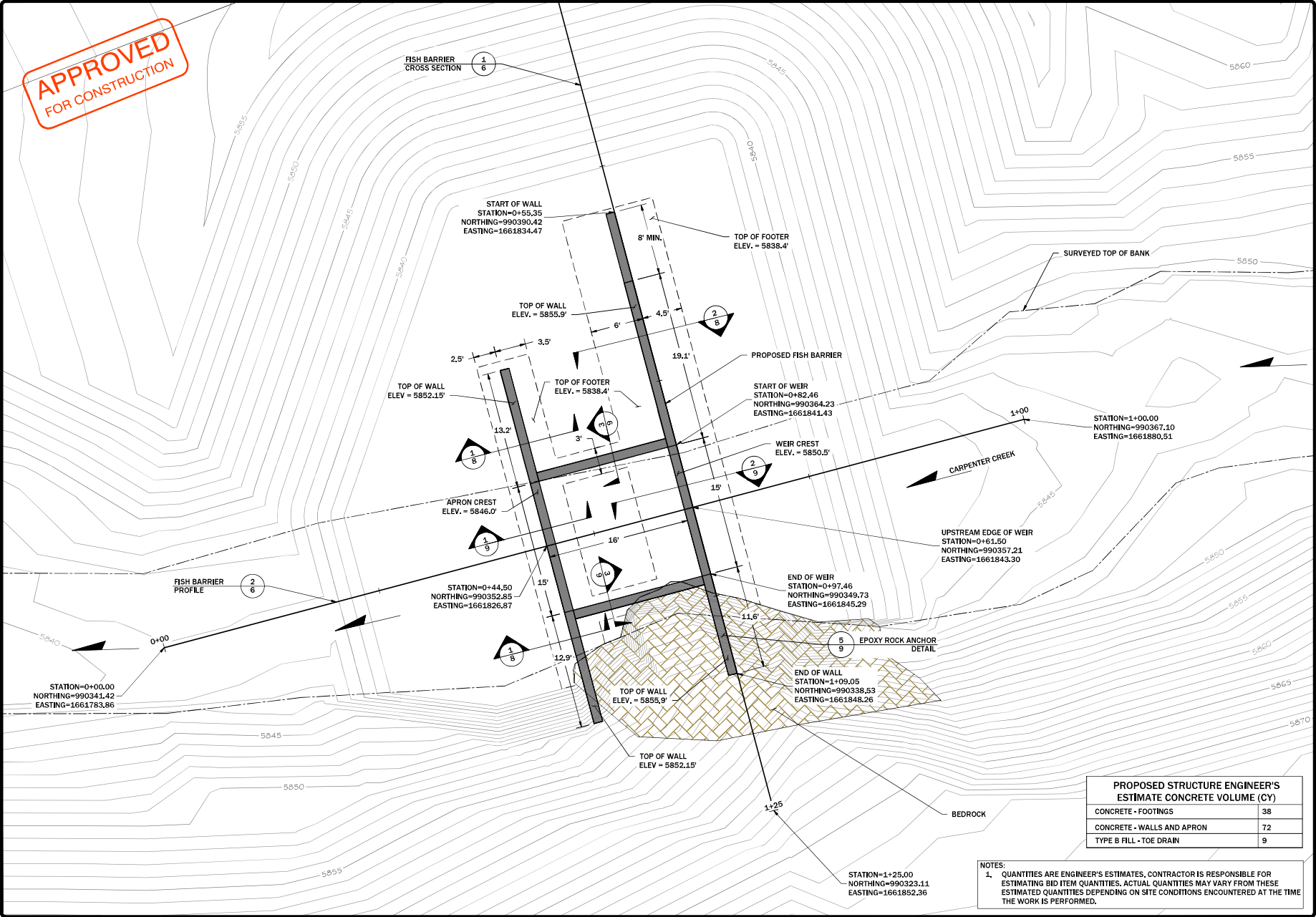
PROPOSED STRUCTURE EXCAVATION
ENGINEER'S ESTIMATE IN BANK VOLUMES

	CUT (CY)	FILL (CY)	NET (CY)
BARRIER EXCAVATION ¹	2072	0	2072
A HORIZON ³	276	0	276

- NOTES:
1. QUANTITIES ARE ENGINEER'S ESTIMATES. CONTRACTOR IS RESPONSIBLE FOR ESTIMATING BID ITEM QUANTITIES. ACTUAL QUANTITIES MAY VARY FROM THESE ESTIMATED QUANTITIES DEPENDING ON SITE CONDITIONS ENCOUNTERED AT THE TIME THE WORK IS PERFORMED.
 2. EXCAVATION QUANTITIES ARE IN BANK CUBIC YARDS.
 3. STRIP A MINIMUM OF 12 INCHES OF TYPE D COVER SOIL PRIOR TO EXCAVATION.

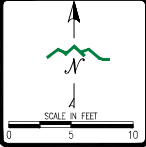
SHEET
4

**APPROVED
FOR CONSTRUCTION**



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APPROVED BY	JAC
PROJECT NO.	
DATE	7/20/2022
DELETED AS	
COORD SYS ZONE	NAD83
DATUM	NAD83
UNITS	FEET
SOURCE	FIELD



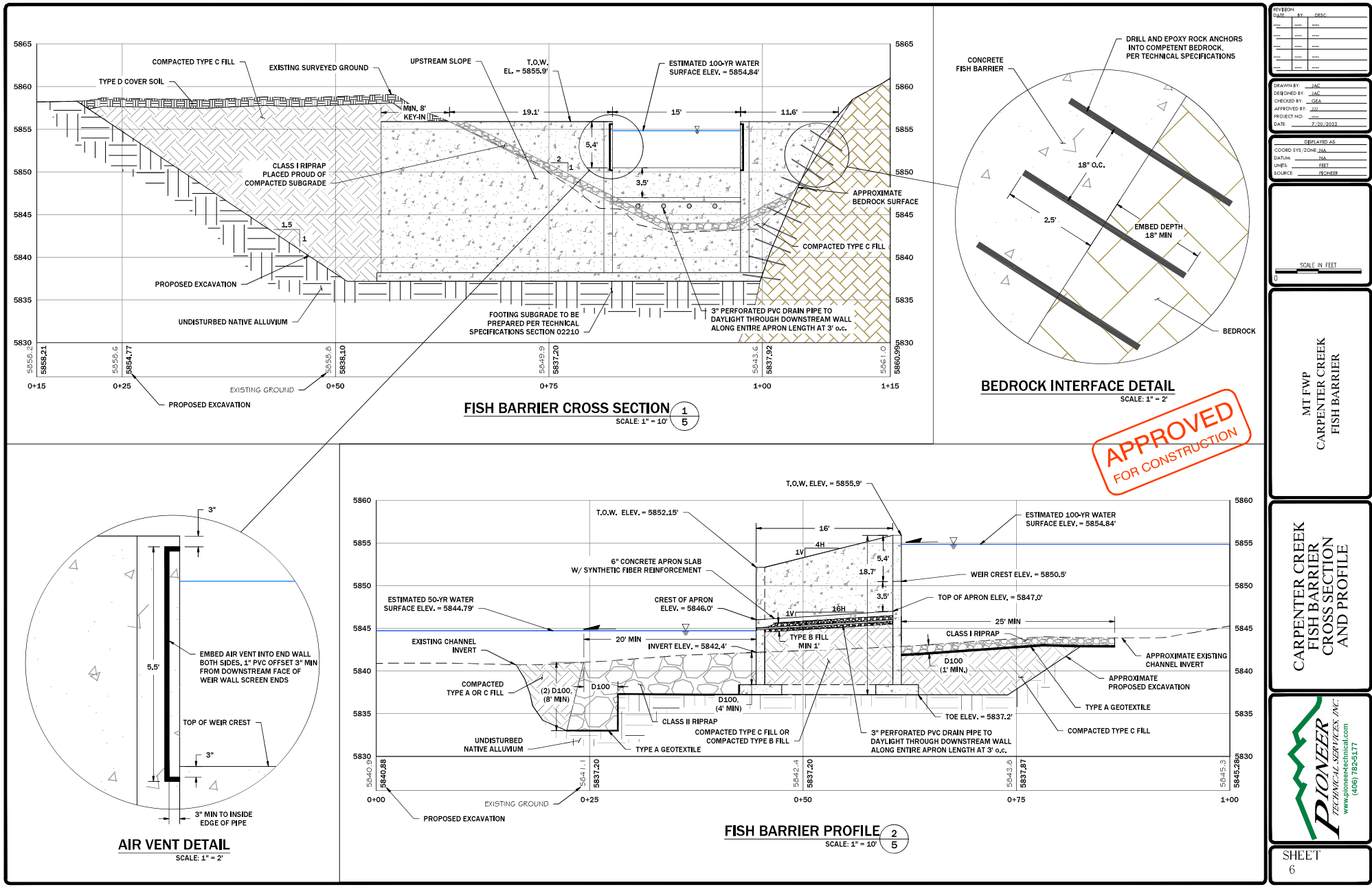
MT FWP
CARPENTER CREEK
FISH BARRIER

CARPENTER CREEK
FISH BARRIER
STRUCTURE PLAN

PROPOSED STRUCTURE ENGINEER'S ESTIMATE CONCRETE VOLUME (CY)	
CONCRETE - FOOTINGS	38
CONCRETE - WALLS AND APRON	72
TYPE B FILL - TOE DRAIN	9

NOTES:
1. QUANTITIES ARE ENGINEER'S ESTIMATES, CONTRACTOR IS RESPONSIBLE FOR ESTIMATING BID ITEM QUANTITIES. ACTUAL QUANTITIES MAY VARY FROM THESE ESTIMATED QUANTITIES DEPENDING ON SITE CONDITIONS ENCOUNTERED AT THE TIME THE WORK IS PERFORMED.

SHEET
5



REVISION	DATE	BY	DESC

DRAWN BY:	JAC
CHECKED BY:	JAC
APPROVED BY:	JLL
PROJECT NO.:	2202
DATE:	7/20/2022

DELETED AS:	
COORD SYS ZONE:	NAD 83
DATUM:	
UNITS:	FEET
SOURCE:	

SCALE IN FEET

MT FWP
CARPENTER CREEK
FISH BARRIER

APPROVED
FOR CONSTRUCTION

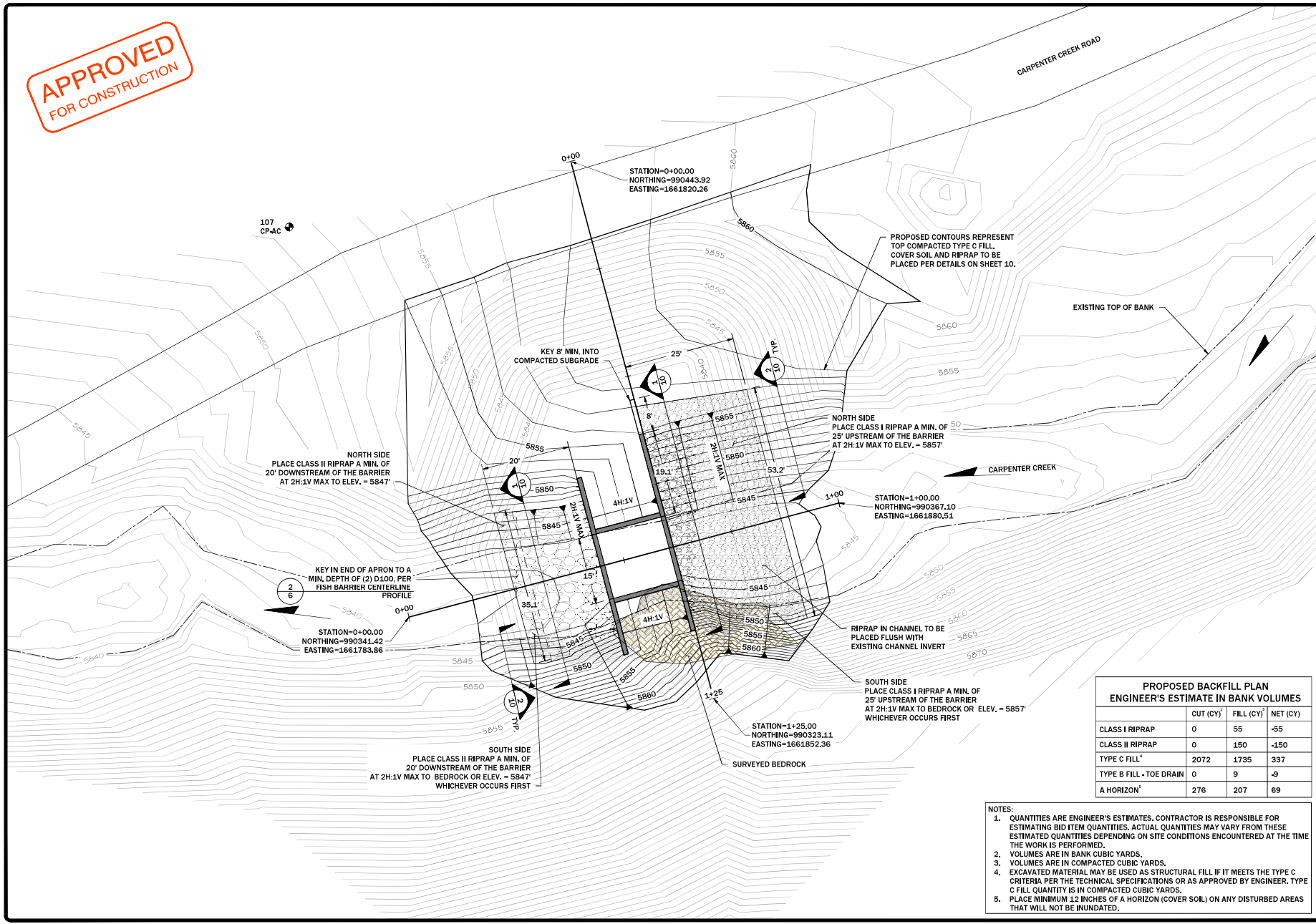
CARPENTER CREEK
FISH BARRIER
CROSS SECTION
AND PROFILE



SHEET
6

7/20/2022 10:16:20 AM G:\MT FWP\CARPENTERCREEK_CONSTADMIN\DRAWINGS\CADD\CARP_CO_001.DWG

APPROVED
FOR CONSTRUCTION



PROPOSED BACKFILL PLAN
ENGINEER'S ESTIMATE IN BANK VOLUMES

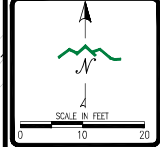
	CUT (CY)	FILL (CY)	NET (CY)
CLASS I RIPRAP	0	95	-95
CLASS II RIPRAP	0	150	-150
TYPE C FILL*	2072	1735	337
TYPE B FILL - TOE DRAIN	0	9	-9
A HORIZON*	276	207	69

- NOTES:**
- QUANTITIES ARE ENGINEER'S ESTIMATES. CONTRACTOR IS RESPONSIBLE FOR ESTIMATING BID ITEM QUANTITIES. ACTUAL QUANTITIES MAY VARY FROM THESE ESTIMATED QUANTITIES DEPENDING ON SITE CONDITIONS ENCOUNTERED AT THE TIME THE WORK IS PERFORMED.
 - VOLUMES ARE IN BANK CUBIC YARDS.
 - VOLUMES ARE IN COMPACTED CUBIC YARDS.
 - EXCAVATED MATERIAL MAY BE USED AS STRUCTURAL FILL IF IT MEETS THE TYPE C CRITERIA PER THE TECHNICAL SPECIFICATIONS OR AS APPROVED BY ENGINEER. TYPE C FILL QUANTITY IS IN COMPACTED CUBIC YARDS.
 - PLACE MINIMUM 12 INCHES OF A HORIZON (COVER SOIL) ON ANY DISTURBED AREAS THAT WILL NOT BE INUNDATED.

REVISION	BY	DATE

DRAWN BY	JAC
DESIGNED BY	JAC
CHECKED BY	SEA
APPROVED BY	JJJ
PROJECT NO.	
DATE	7/20/2022

DISPLAYED AS	
COORD SYS / ZONE	NAD83 / UTM
DATUM	NAD83 / HAUSERS
UNITS	FEET
SOURCE	FIELD



MT FWP
CARPENTER CREEK
FISH BARRIER

CARPENTER CREEK
FISH BARRIER
BACKFILL PLAN

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SHEET
7

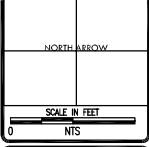


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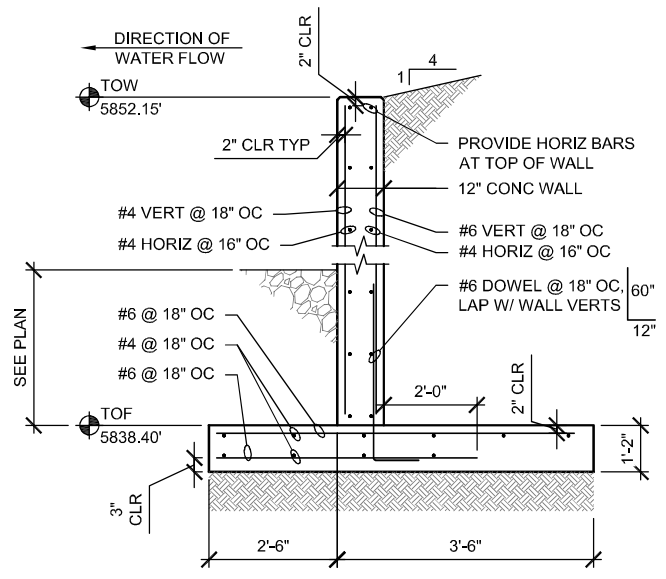
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 APPROVED BY: _____
 PROJECT NO.: _____
 DATE: 07/20/2022

EXPLAINED AS:
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 DATUM: NAD 83
 UNITS: FEET
 SOURCE: _____

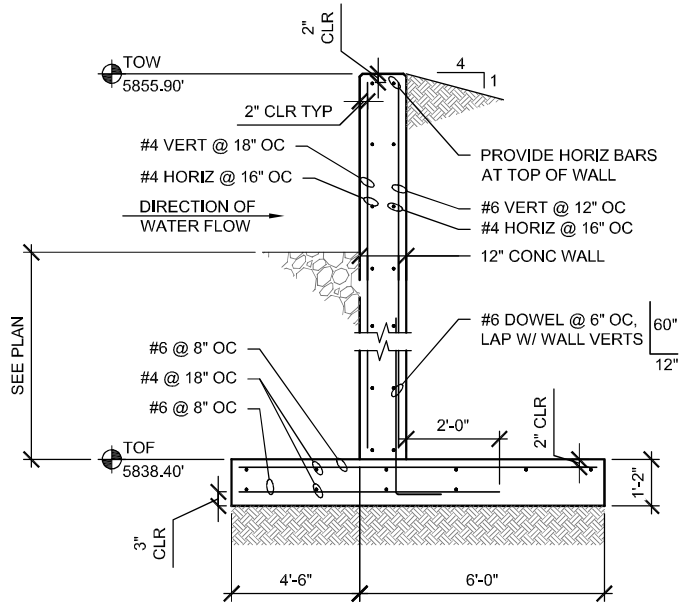


STRUCTURAL DETAILS

MT FWP CARPENTER CREEK
 FISH BARRIER



1 CONC WALL @ DOWNSTREAM
 SCALE: NTS

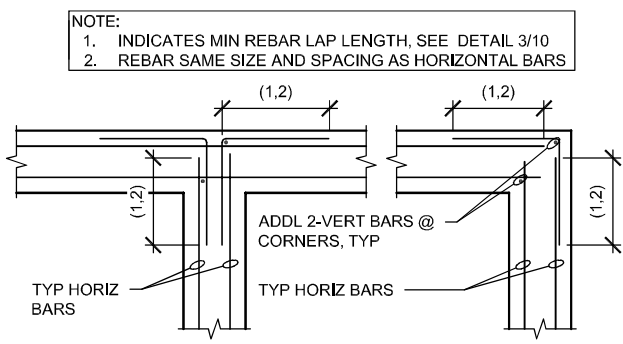


2 CONC WALL @ UPSTREAM
 SCALE: NTS

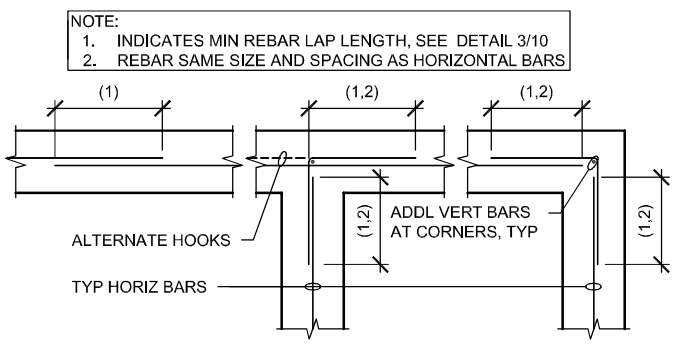
REBAR LAP LEGEND	
BAR DIAMETER	LAP (INCHES)
#3	18"
#4	24"
#5	30"
#6	36"

ADDITIONAL REMARKS:
 1. 4500 PSI CONCRETE CLASS 'B' LAP

3 REBAR LAP LEGEND
 SCALE: NTS



4 WALL REINF - DBL MAT
 SCALE: NTS



5 WALL REINF - SGL MAT
 SCALE: NTS





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 DATE: 07/20/2022

EXPLAINED AS:
 DATUM: NGS
 UNITS: NTS
 SOURCE: _____

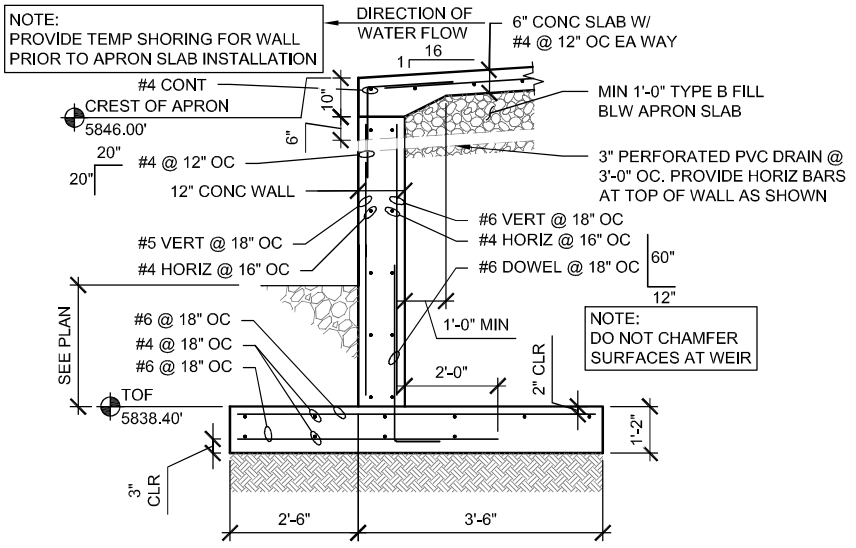
NORTH ARROW
 SCALE IN FEET
 0 NTS

MT FWP CARPENTER CREEK
 FISH BARRIER

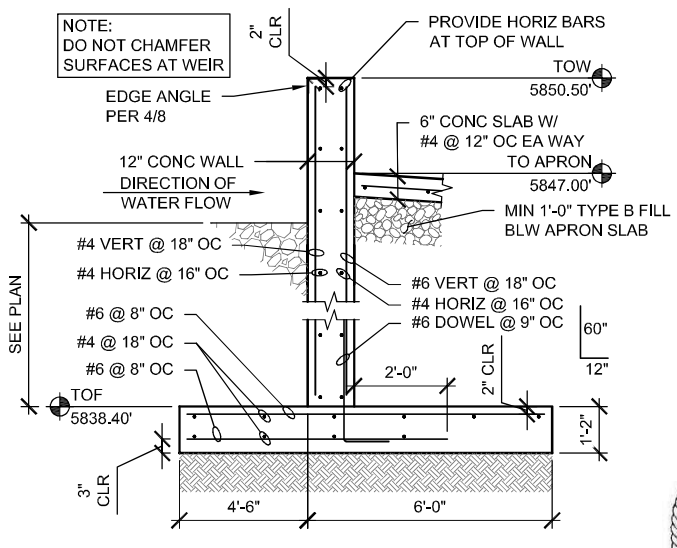


STRUCTURAL DETAILS

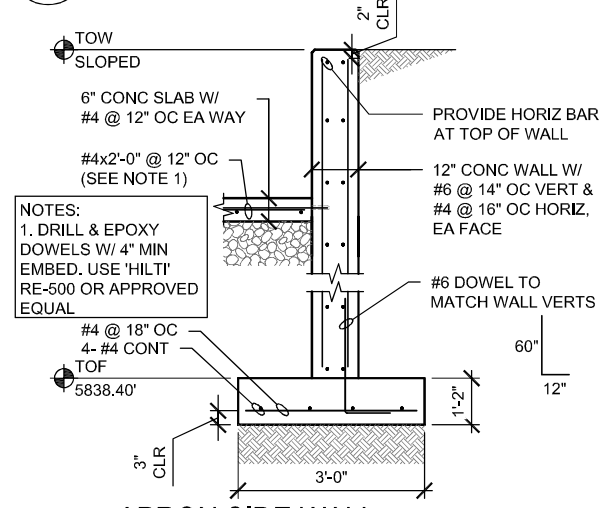
PIONEER
 TECHNICAL SERVICES, INC.
 106 PRONGHORN TRAIL SUITE A
 BOZEMAN, MONTANA 59718
 (406) 398-8579



1 DOWNSTREAM WEIR WALL
 SCALE: NTS

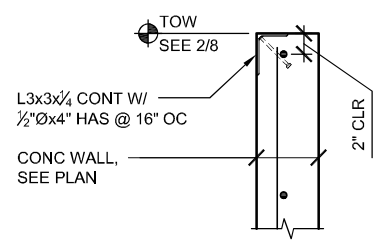


2 UPSTREAM WEIR WALL
 SCALE: NTS



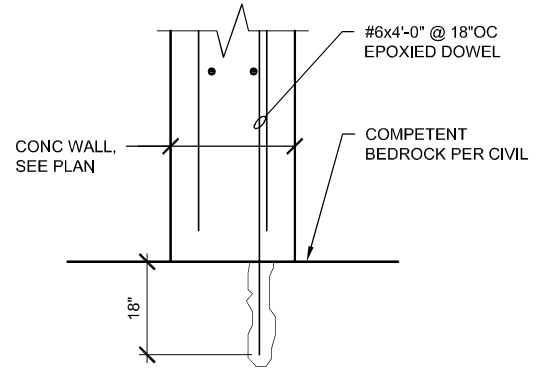
3 APRON SIDE WALL
 SCALE: NTS

NOTES:
 1. STEEL ANGLE MATERIAL SHALL CONFORM TO ASTM A36, Fy = 36 ksi
 2. HEADED ANCHOR STUD MATERIAL SHALL CONFORM TO ASTM A108, GRADE 1015, Fu = 65 ksi



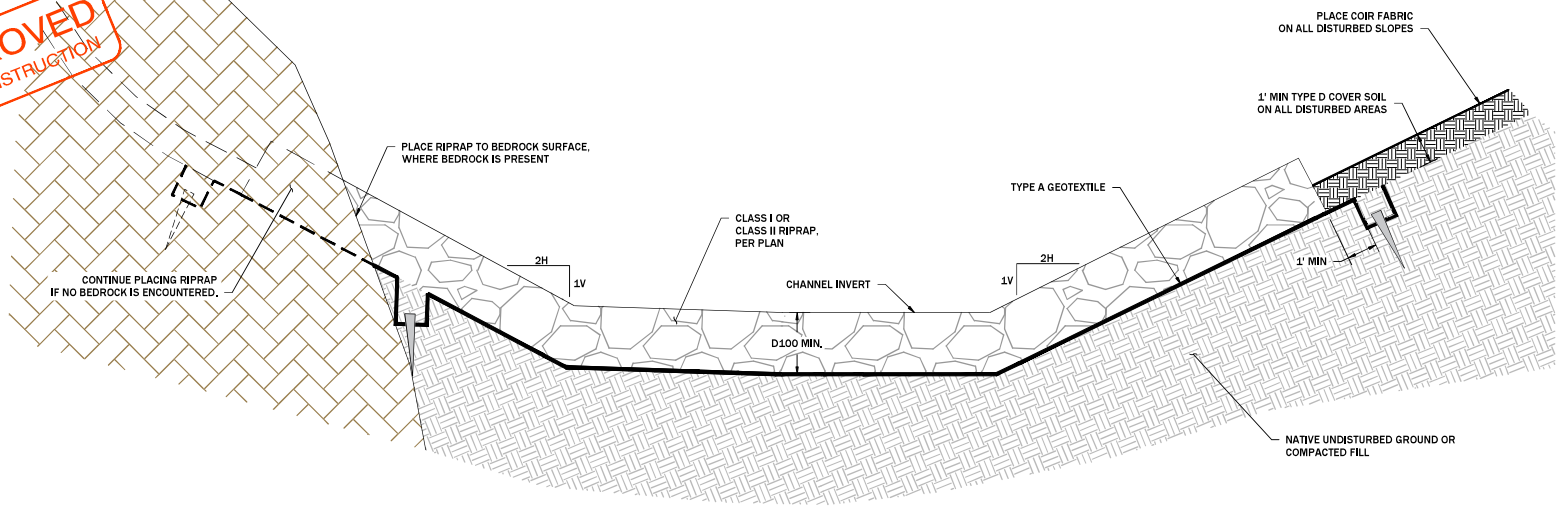
4 GUARD ANGLE @ TOW
 SCALE: NTS

NOTES:
 1. DRILL & EPOXY DOWELS W/ 18" MIN EMBED. USE 'HILTI' RE-500 OR APPROVED EQUAL

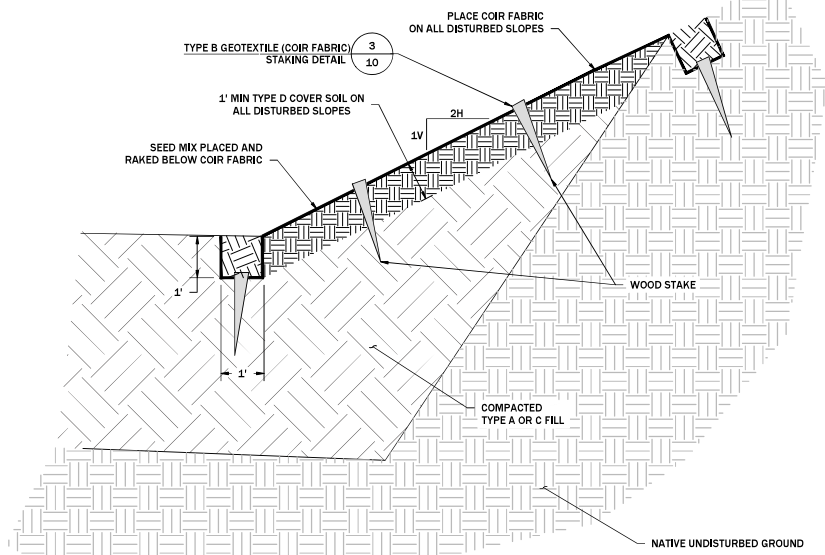


5 EPOXY ROCK ANCHOR
 SCALE: NTS

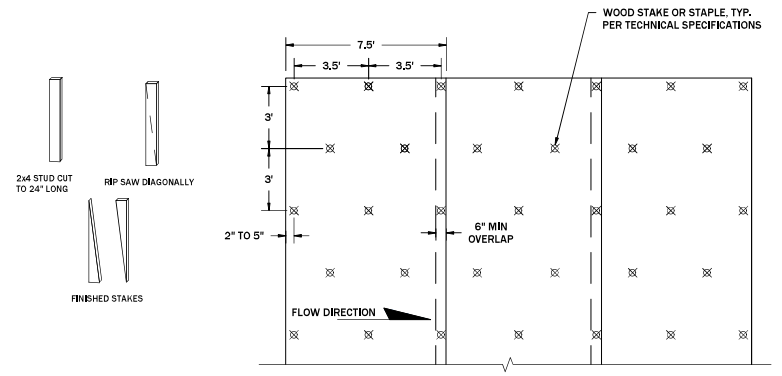
**APPROVED
FOR CONSTRUCTION**



RIPRAP TYPICAL DETAIL ①
SCALE: 1" = 4' 7



COIR FABRIC TYPICAL DETAIL ②
SCALE: 1" = 3' 7

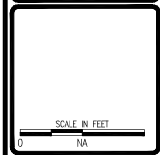


TYPE B GEOTEXTILE (COIR FABRIC) STAKING DETAIL ③
SCALE: 1" = 6' 10

REVISION	DATE	BY	DESC.

DRAWN BY:	JAC
DESIGNED BY:	JAC
CHECKED BY:	SEA
APPROVED BY:	JLL
PROJECT NO.:	
DATE:	7/20/2022

DISPLAYED AS:	
COORD SYS / ZONE:	NA
DATUM:	NA
UNITS:	FEET
SOURCE:	FEEDER



MT FWP
CARPENTER CREEK
FISH BARRIER

CARPENTER CREEK
FISH BARRIER
BACKFILL TYPICAL
SECTIONS AND DETAIL



SHEET
10