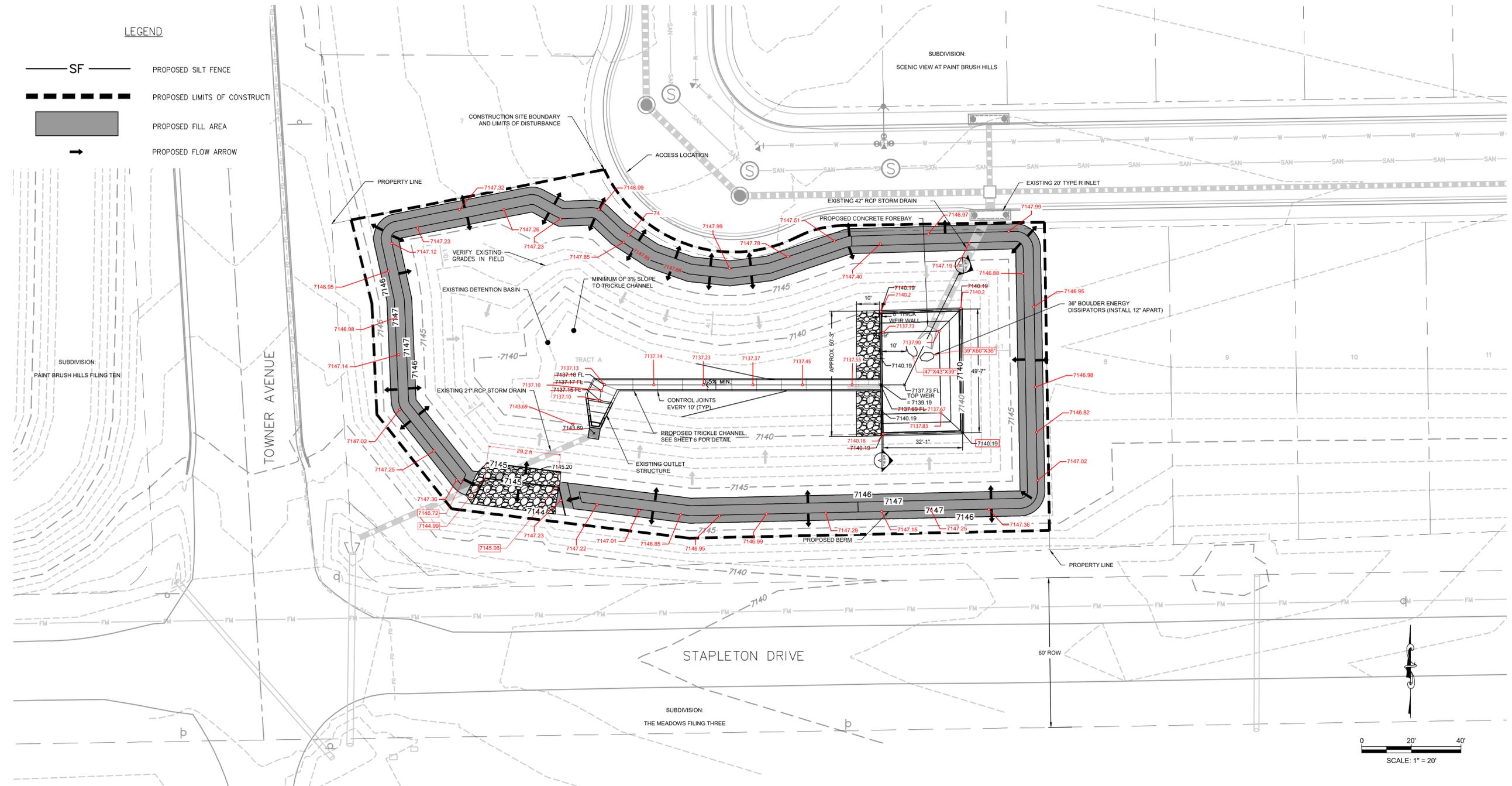


LEGEND

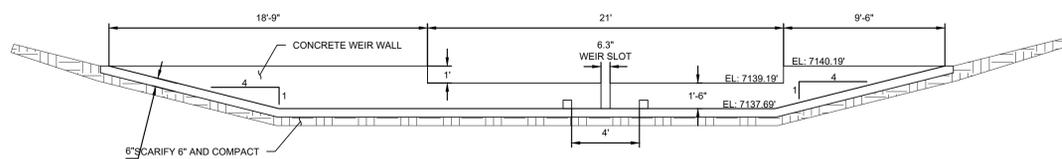
-  PROPOSED SILT FENCE
-  PROPOSED LIMITS OF CONSTRUCTION
-  PROPOSED FILL AREA
-  PROPOSED FLOW ARROW



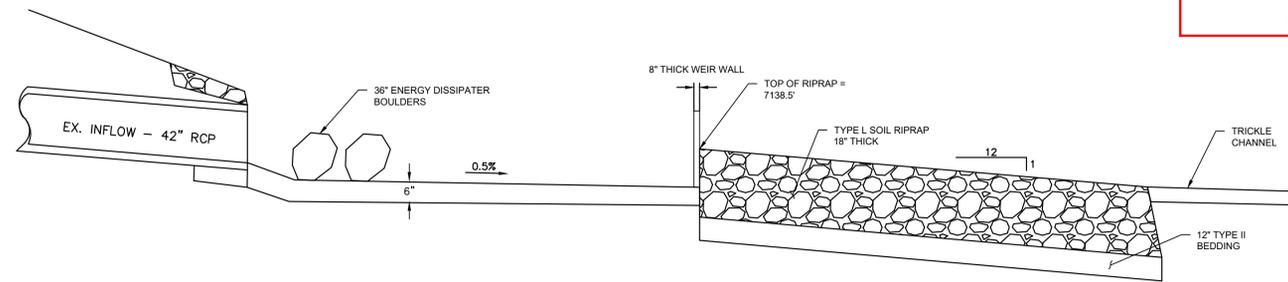
SCENIC VIEW AT PAINT BRUSH HILLS POND PLAN

SCALE: 1" = 20'

**As-Built Condition**  
09/12/2023



**A WEIR WALL SECTION**  
N.T.S.



**B FOREBAY STRUCTURE SECTION**  
N.T.S.

48 hours before you call UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) **811**  
Go Electric, Telephone, CATV, and Penhandle Eastern Pipeline Locations  
**SCALE VERIFICATION**  
BAR IS ONE INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET SCALE ACCORDINGLY

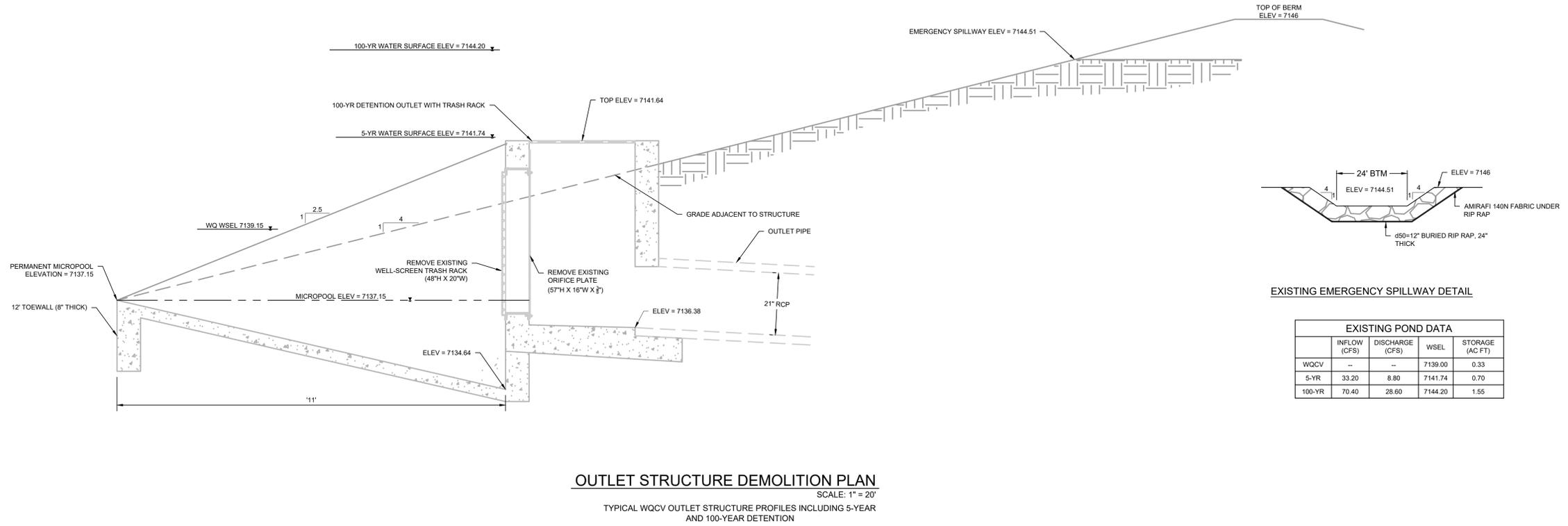
NO.	REVISIONS DESCRIPTION	DATE	BY
1	ISSUED FOR CONSTRUCTION	10/31/22	JGS

**IRG AND ASSOCIATES, LLC**  
4885 Ward Road, Suite 100 - Wheat Ridge, CO 80033  
Del Norte • Gypsum • Wheat Ridge  
303-293-8107 • www.igrgengineers.com

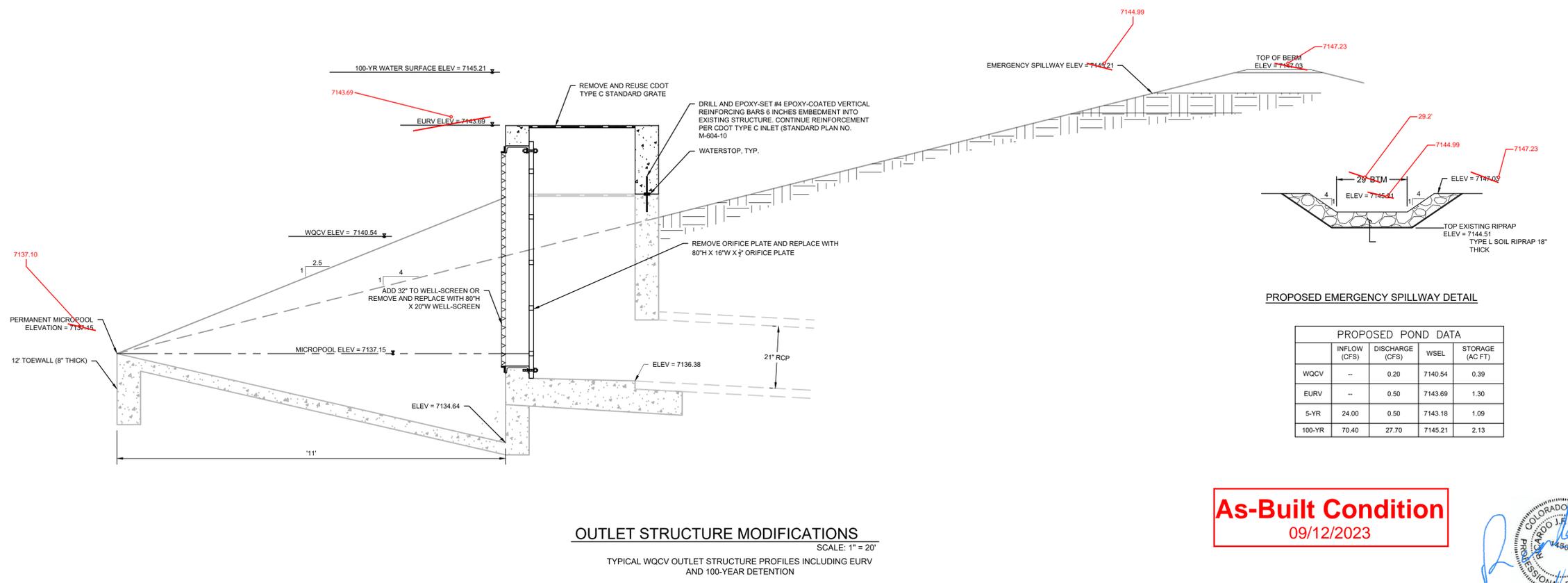
SCENIC VIEW AT PAINT BRUSH HILLS DETENTION POND MODIFICATIONS	
GRADING PLAN	
PAINT BRUSH HILLS METROPOLITAN DISTRICT EL PASO COUNTY, COLORADO	
DRAWN BY:	DESIGNED BY:
JGS	GEW
JOB NUMBER:	1070.0022
DATE:	10/31/22
SCALE:	N.T.S.
DRAWING NAME:	GRADING PLAN
SHEET NO.:	3 of 8

*Final*  
3/12/23

S:\1070 - Paint Brush Hills Metropolitan District\1070.0022 - Scenic View Detention Pond\DWG\3D DETAILS.dwg, 05/OUTLET STRUCTURE, 8/23/2022 1:32:16 PM, jaramolade, 1:1



**OUTLET STRUCTURE DEMOLITION PLAN**  
SCALE: 1" = 20'  
TYPICAL WQCV OUTLET STRUCTURE PROFILES INCLUDING 5-YEAR AND 100-YEAR DETENTION



**OUTLET STRUCTURE MODIFICATIONS**  
SCALE: 1" = 20'  
TYPICAL WQCV OUTLET STRUCTURE PROFILES INCLUDING EURV AND 100-YEAR DETENTION

**As-Built Condition**  
09/12/2023



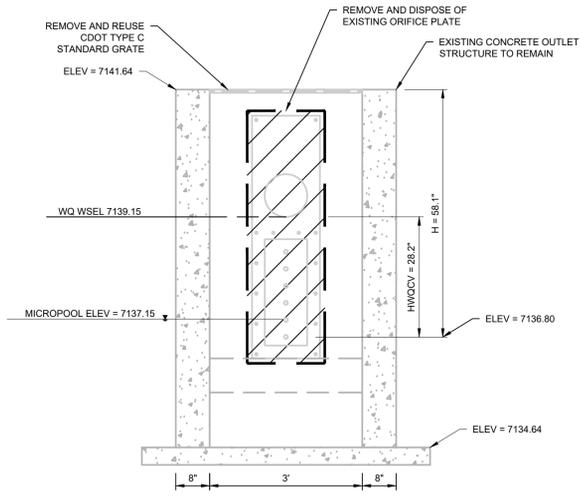
48 hours before you file, CALL UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) **811**  
Goa,Electric,Telephone,CATV, and Penetration Eastern Pipeline Locations  
**SCALE VERIFICATION**  
BAR IS ONE INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET SCALE ACCORDINGLY

NO.	REVISIONS	DESCRIPTION	DATE	BY

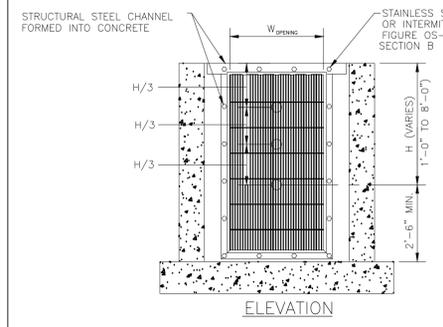
**RG AND ASSOCIATES, LLC**  
4885 Ward Road, Suite 100 • Wheat Ridge, CO 80033  
Del Norte • Gypsum • Wheat Ridge  
303-293-8107 • www.rgengineers.com

SCENIC VIEW AT PAINT BRUSH HILLS  
DETENTION POND MODIFICATIONS  
OUTLET STRUCTURE  
PAINT BRUSH HILLS METROPOLITAN DISTRICT  
EL PASO COUNTY, COLORADO

DRAWN BY:	DESIGNED BY:
JCS	GEW
JOB NUMBER:	1070.0022
DATE:	8/23/22
SCALE:	1" = 20'
DRAWING NAME:	OUTLET
SHEET NO.:	4 of 8

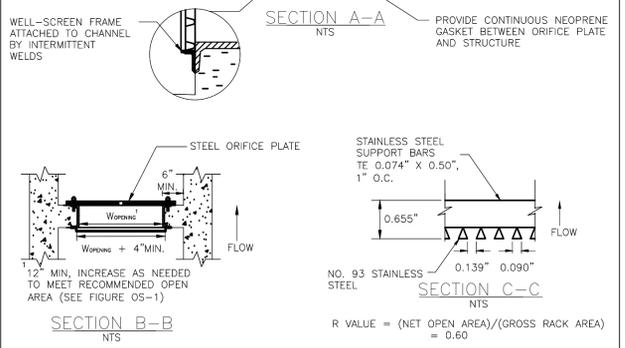
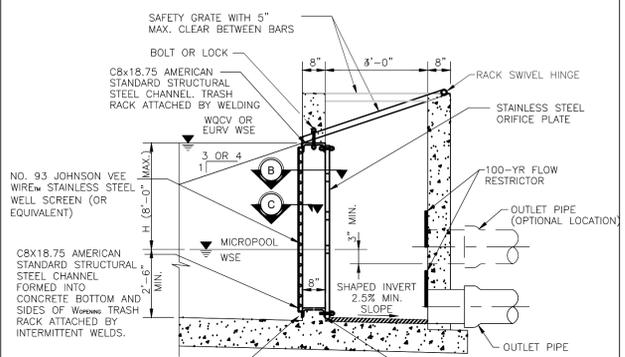


**OUTLET STRUCTURE DEMOLITION DETAIL**  
SCALE: 1" = 20'

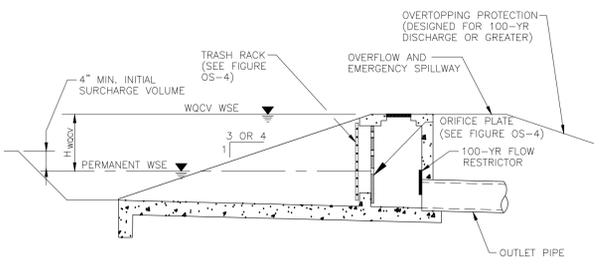


- ORIFICE PLATE NOTES:**
1. PROVIDE CONTINUOUS NEOPRENE GASKET MATERIAL BETWEEN THE ORIFICE PLATE AND CONCRETE.
  2. BOLT PLATE TO CONCRETE 12" MAX. ON CENTER. SEE TABLE OS-2 FOR PLATE THICKNESS.
- EURV AND WQCV TRASH RACKS:**
1. WELL-SCREEN TRASH RACKS SHALL BE STAINLESS STEEL AND SHALL BE ATTACHED BY INTERMITTENT WELDS ALONG THE EDGE OF THE MOUNTING FRAME.
  2. BAR GATE TRASH RACKS SHALL BE ALUMINUM AND SHALL BE BOLTED USING STAINLESS STEEL HARDWARE.
  3. TRASH RACK OPEN AREAS ARE FOR SPECIFIED TRASH RACK MATERIALS. TOTAL TRASH RACK SIZE MAY NEED TO BE ADJUSTED FOR MATERIALS HAVING DIFFERENT OPEN AREA/GROSS AREA RATIO (R VALUE).
  4. STRUCTURAL DESIGN OF TRASH RACKS SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF THE RACK.
- OVERFLOW SAFETY GRATES:**
1. ALL SAFETY GRATES SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE AND PROVIDED WITH HINGED AND LOCKABLE OR BOLTABLE ACCESS PANELS.
  2. SAFETY GRATES SHALL BE STAINLESS STEEL, ALUMINUM, OR STEEL. STEEL GRATES SHALL BE HOT DIP GALVANIZED AND MAY BE HOT POWDER COATED AFTER GALVANIZING.
  3. SAFETY GRATES SHALL BE DESIGNED SUCH THAT THE DIAGONAL DIMENSION OF EACH OPENING IS SMALLER THAN THE DIAMETER OF THE OUTLET PIPE.
  4. STRUCTURAL DESIGN OF SAFETY GRATES SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF THE RACK.

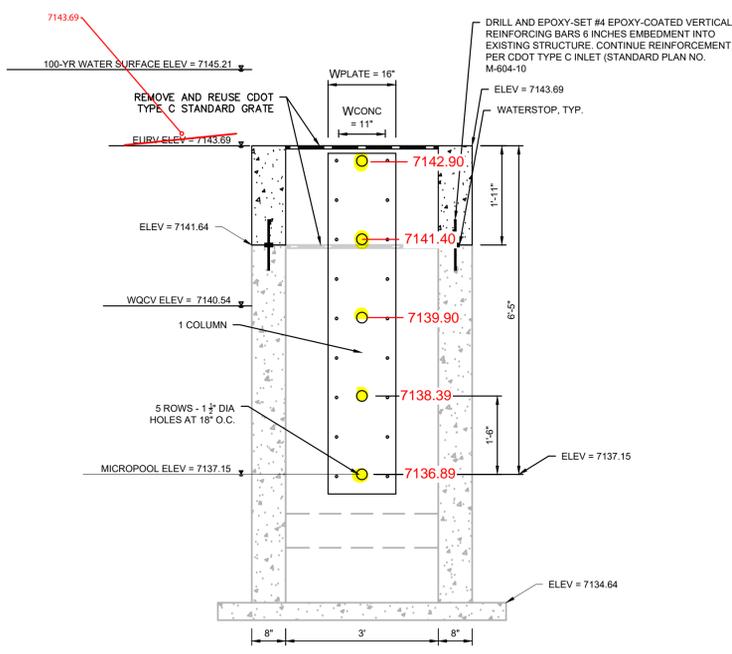
**FIGURE OS-4 PROPOSED ORIFICE PLATE AND TRASH RACK DETAILS AND NOTES**  
NTS



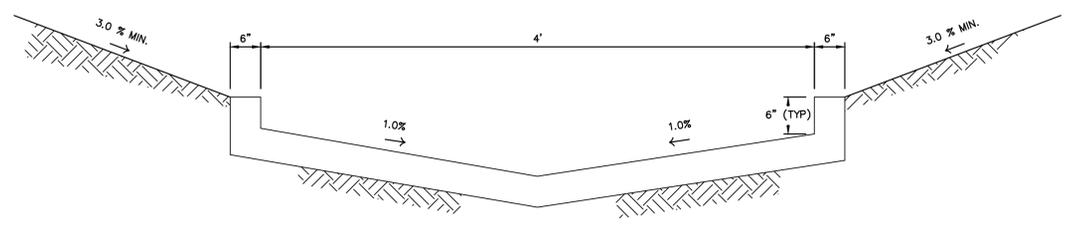
**FIGURE OS-2 TYPICAL OUTLET STRUCTURE FOR FULL SPECTRUM DETENTION**



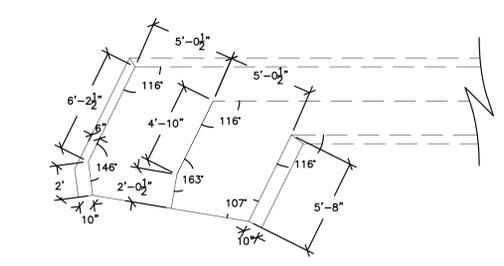
**FIGURE OS-3 PROPOSED TYPICAL OUTLET STRUCTURE FOR WQCV TREATMENT AND ATTENUATION**



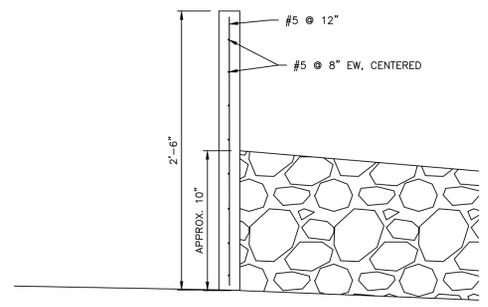
**OUTLET STRUCTURE MODIFICATION**  
SCALE: 1" = 20'



**TRICKLE CHANNEL TYP. SECTION**  
N.T.S.



**TRICKLE CHANNEL TRANSITION**  
SCALE: 1" = 20'



**WEIR WALL REINFORCING DETAIL**  
SCALE: 1" = 20'

**As-Built Condition**  
09/12/2023



NO.	REVISIONS	DESCRIPTION	DATE	BY