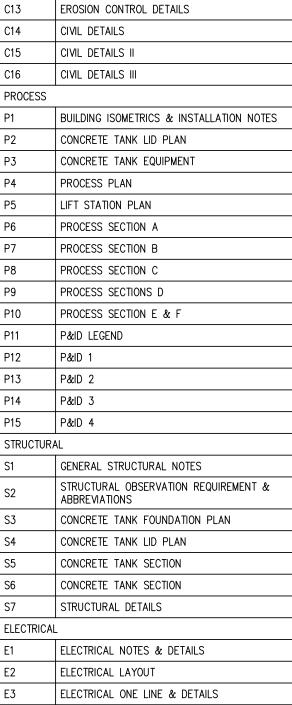
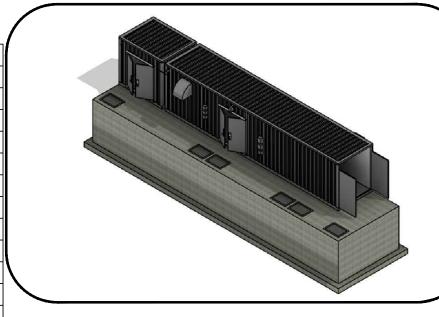
COMMUNITY OF MILNER WASTEWATER TREATMENT IMPROVEMENT PROJECT

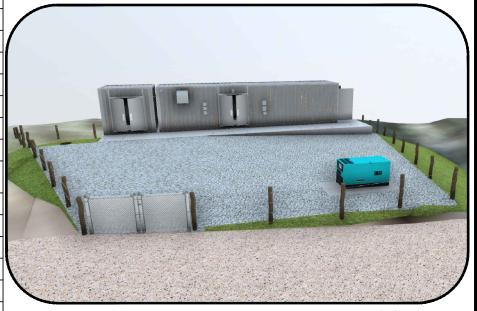
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C10	LAGOON SITE EROSION CONTROL PLAN						
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C12	EFFLUENT DISCHARGE LINE CONNECTION DETAIL						





PROJECT ISOMETRIC



SITE PLAN

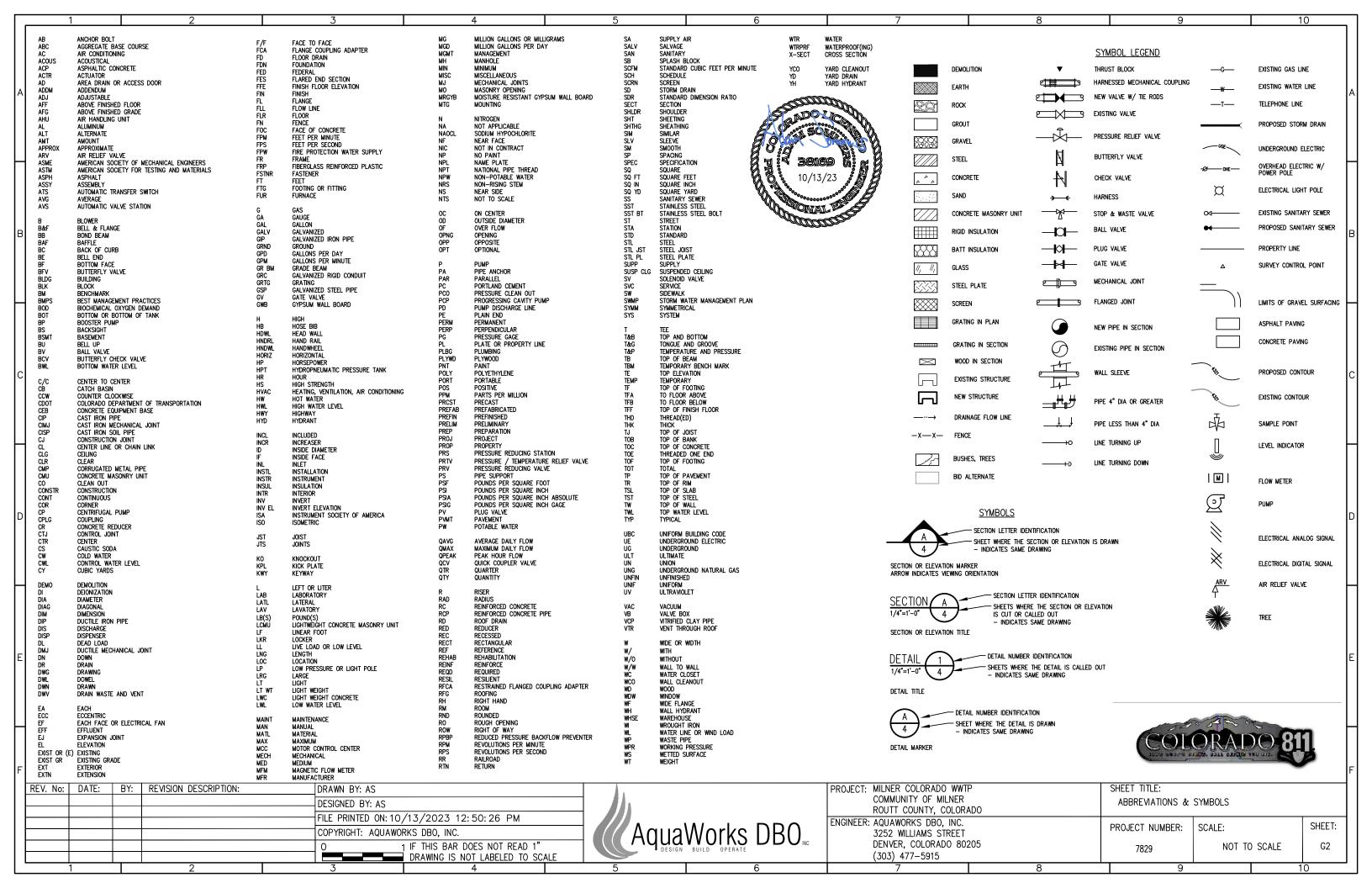




VICINITY MAP NOT TO SCALE

PROJECT LOCATION

AquaWorks DBO INC 3252 WILLIAMS STREET | DENVER COLORADO | 80205 | (303) 477–5915



GENERAL NOTES:

- 1. PROJECT ADDRESS: MAIN ST SOUTH OF U.S. 40. MILNER. CO 80487.
- 2. PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. THE CONTRACTOR SHALL GIVE THE OWNER SEVENTY-TWO (72) HOURS ADVANCE NOTICE.
- 3. NO BELOW GRADE UTILITIES WERE LOCATED FOR THIS PLAN SET, CONTRACTOR IS RESPONSIBLE TO VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION AND TO COORDINATE WITH THE APPROPRIATE UTILITY COMPANY. CONTRACTOR IS RESPONSIBLE TO PROTECT UTILITIES DURING CONSTRUCTION. IF A CONFLICT EXISTS AND/OR A DESIGN MODIFICATION IS REQUIRED. OWNER AND CONTRACTOR SHALL COORDINATE WITH ENGINEER TO MODIFY THE DESIGN. DESIGN MODIFICATION(S) MUST BE APPROVED BY THE OWNER PRIOR TO BEGINNING CONSTRUCTION AFFECTED. FOR UTILITY LOCATE INFORMATION, CONTACT UNCC: (800) 922-1987.
- ACTUAL LOCATIONS, DISTANCES, AND ELEVATIONS WILL BE GOVERNED BY ACTUAL FIELD CONDITIONS. CONTRACTOR TO FIELD VERIFY CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
- 5 CONTRACTOR SHALL BE REQUIRED TO RESTORE THE ROUTE OF WORK AND ANY DAMAGED EXISTING LANDSCAPE, STRUCTURES, OR IMPROVEMENTS AS THE RESULT OF WORK TO ORIGINAL CONDITION OR BETTER PRIOR TO ACCEPTANCE OF WORK. CONTRACTOR RESPONSIBLE FOR RESTORING SITE TO PRE-CONSTRUCTION CONDITION.
- 6. NO UTILITY SERVICE MAY BE DISCONNECTED WITHOUT PRIOR APPROVAL OF THE OWNER OR OWNER'S REPRESENTATIVE.
- 7. CONTRACTOR TO PROVIDE AND MAINTAIN TEMPORARY PORTABLE RESTROOM FACILITIES FOR THE DURATION OF THE PROJECT.
- 8. CONTRACTOR SHALL EXHIBIT NECESSARY SAFETY PRECAUTIONS DURING CONSTRUCTION, WHICH INCLUDES, BUT IS NOT LIMITED TO, SIGNAGE, SECURITY, AND EXCAVATION AS SET FORTH BY OSHA, PUBLICATION 2226, "EXCAVATION AND TRENCHING OPERATIONS."
- 9. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROCUREMENT OF ALL PERMITS NECESSARY FOR THE CONSTRUCTION OF THE IMPROVEMENTS SHOWN.
- 10. CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF EXISTING MANHOLES, SEWER PIPES, STRUCTURES, AND OUTFALLS PRIOR TO CONSTRUCTION.
- 11. THE CONTRACTOR SHALL MAINTAIN ON SITE A FULL SET OF CONSTRUCTION DRAWINGS, RECORDING ALL INFORMATION PERTAINING TO THE CONSTRUCTION OF THE WASTEWATER TREATMENT PLANT IMPROVEMENTS. THESE RECORD DRAWINGS SHALL BE PROVIDED TO THE OWNER UPON COMPLETION OF THE PROJECT.
- 12. HORIZONTAL AND VERTICAL DEFLECTION OF THE PIPES SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATIONS FOR THE PIPE MATERIAL AND TEST PRESSURE SPECIFIED.
- 13. CONTRACTOR SHALL NOT SCALE FROM DRAWINGS FOR CONSTRUCTION PURPOSES. ANY MISSING DIMENSIONS OR DISCREPANCIES IN PLANS, FIELD STAKING, FIELD CONDITIONS OR PHYSICAL FEATURES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. IF CONTRACTOR PROCEEDS WITH THE WORK WITHOUT NOTIFYING ENGINEER HE DOES SO AT HIS OWN RISK.
- 14. IF CONFLICTS, QUESTIONS OR INTERPRETATION ARE REQUIRED CONTACT THE ENGINEER IN WRITING WITH A REQUEST FOR INFORMATION (RFI).

BUILDING REQUIREMENTS:

- 1. CONTRACTOR TO CONFORM TO CURRENT EDITION IBC, ROUTT COUNTY BUILDING CODES, AND OTHER APPLICABLE LOCAL CODES.
- 2. MAINTAIN EXISTING PORTABLE FIRE EXTINGUISHERS THROUGHOUT THE BUILDING PER IFC AND

REQUIREMENTS:

ALL MATERIALS FOR POTABLE WATER SERVICE SHALL BE NSF 61 CERTIFIED DISINFECTION SYSTEMS B300-04 AWWA STANDARD FOR HYPOCHLORITES

- 1. CONTRACTOR TO COORDINATE MODIFICATIONS TO EXISTING ELECTRICAL SERVICE WITH UTILITY AND OWNER.
- 2. REFER TO ELECTRICAL DRAWINGS.

- 1. CONTRACTOR TO PROVIDE ALL SUPPORTS AS REQUIRED
- 2. ALL PVC PROCESS PIPING SHALL BE SCH 80 UNLESS OTHERWISE NOTED.

PIPING IDENTIFICATION REQUIREMENTS:

- 1. INCLUDE FLOW DIRECTION ARROW TAPE ON ALL PIPING.
- 2. ALL PIPING SHALL EITHER BE PAINTED OR LABELED USING THE FOLLOWING COLOR SCHEDULE (NOT ALL MAY BE INCLUDED WITH THIS PROJECT):

PROCESS LINES

SEWAGE DARK GRAY

SLUDGE BROWN WITH BLACK BANDS

POTABLE WATER DARK BLUE NON-POTABLE WATER DARK BLUE WITH BLACK BANDS

RECLAIMED WATER PURPI F

CHEMICAL LINES

ALUM OR PRIMARY COAGULANT **ORANGE** AMMONIA WHITE

CARBON SLURRY **BLACK**

YELLOW WITH GREEN BAND **CAUSTIC CHLORINE** YELLOW

YELLOW WITH ORANGE BAND OZONE ORANGE WITH GREEN BAND POLYMERS OR COAGULANTS POTASSIUM PERMANGANATE PURPLE WITH GREEN BAND

LIGHT GREEN WITH ORANGE BAND SODA ASH

OTHER

COMPRESSED AIR DARK GREEN GAS RED

PROJECT TEAM:

SYSTEM OWNER:

COMMUNITY OF MILNER MR. SCOTT COWMAN 136 6TH STREET STEAMBOAT SPRINGS, CO 80487 ROUTT COUNTY ENVIRONMENTAL HEALTH (970) 870-5588

CIVIL PROCESS ENGINEER:

AQUAWORKS DBO, INC. MR. ADAM SOMMERS, P.E. 3252 WILLIAMS STREET DENVER, CO 80205 (303) 477-5915

STRUCTURAL ENGINEER:

WALLACE STRUCTURAL CONSULTANTS MR. STEVE JACOB. P.E. 9800 PYRAMID CT, #305 ENGLEWOOD, CO 80112 (918) 806-7339

ELECTRICAL ENGINEER:

DYNAMIC MEP CONSULTING ENGINEERS MR. MIKE BRUNGARDT, P.E. PO BOX 280782 DENVER, CO 80228 (303) 421-3208

OPERATOR IN RESPONSIBLE CHARGE:

MR. SCOTT SMITH PO BOX 1078 CLARK, CO 80428 (970) 846-9732





PROJECT VIEW

:	BY:	REVISION DESCRIPTION:	DRAWN BY: AS		PROJECT: MILNER COLORADO WWTP	SHEET TITLE:	
			DESIGNED BY: AS	T #11.	COMMUNITY OF MILNER	GENERAL NOTES &	REQUIREMENTS
				- ////	ROUTT COUNTY, COLORADO		
			FILE PRINTED ON: 10/13/2023 12: 50: 29 PM	- W I DDO	ENGINEER: AQUAWORKS DBO, INC.	PROJECT NUMBER:	SCALE:
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DESIGN CRITERIA SUMMARY:

DESIGN FLOWS:

MAX MONTH (DESIGN) FLOW: 32,500 GPD PEAK DAILY FLOW: 54,167 GPD PEAK INSTANTANEOUS FLOW: 68 GPM

DESIGN INFLUENT CONCENTRATIONS & LOADING:

AVERAGE BOD: 240 MG/L AVERAGE TSS: 240 MG/L 50 MG/L AVERAGE TKN: AVERAGE TP: 10 MG/L

DESIGN EFFLUENT QUALITY/LIMITS:

BOD: 5 MG/L TSS: 1 MG/L 50 MG/L NH3-N: 7-9 PH.

ACTIVATED SLUDGE DESIGN CRITERIA:

SITE ELEVATION: 6.520 FEET MLSS TEMPERATURE: 10 CELSIUS HYDRAULIC RETENTION TIME: 8.3 HOURS @ MMF 16.0 DAYS

> 0.042 (OR 0.062 FOR F: MLVSS)

4.2 PSI

26.2 SCFM

6.5 PSIG

MAJOR EQUIPMENT SUMMARY:

F: M RATIO:

AEROBIC PROCESS BLOWERS:

QUANTITY: 1 DUTY, 1 STANDBY TAG NO.: B-0501 & B-0502 TYPE: POSITIVE DISPLACEMENT MRF/MODEL: SUTORBILT 4L-RHC MOTOR: 15 HP POWFR. 460V/3P/60HZ SPEED CONTROL: 310.4 SCFM

INFLUENT EQ BLOWER:

DESIGN FLOW:

DESIGN PRESSURE:

1 DUTY, 1 SHARED STANDBY QUANTITY: TAG NO.: B-0301 & B-3901 TYPE: REGENERATIVE MRF/MODEL: FPZ, SCL R30-MD-3 MOTOR: 3 HP POWER: 115/208-230/1PH/60HZ SPEED CONTROL: CONSTANT SPEED 26.2 SCFM DESIGN FLOW: DESIGN PRESSURE: 6.5 PSIG

SLUDGE BLOWER:

DESIGN FLOW:

DESIGN PRESSURE:

1 DUTY, 1 SHARED STANDBY QUANTITY: TAG NO.: B-0901 & B-3901 REGENERATIVE TYPE: MRF/MODEL: FPZ, SCL R30-MD-3 MOTOR: 3 HP POWFR: 115/208-230/1PH/60HZ CONSTANT SPEED SPEED CONTROL:

MAJOR EQUIPMENT SUMMARY:

MEMBRANE BASIN BLOWERS: QUANTITY: 2 DUTY, 1 SHELF SPARE

TAG NO.: B-0601 & B-0603 TYPE: REGENERATIVE MRF/MODEL: FPZ SCL R30-MD-3 MOTOR: 3.0 HP POWER: 115/208-230/1PH/60HZ COŃSTANT SPEED SPEED CONTROL: 29.8 SCFM DESIGN FLOW: **DESIGN PRESSURE:** 6.0 PSIG

COARSE BARSCREEN (LIFT STATION):

QUANTITY: 1 DUTY MFR/MODEL: REE PRODUCTS INC., STATION CHARD BAR SPACING: ADJUSTABLE 1/2 TO 1-INCH

PIPFI INF

MOUNTS TO 8-INCH INF

INFLUENT LIFT STATION WETWELL:

SIZE:

QUANTITY: TAG NO .: TNK-101

BASIN SIZE: 6 FT DIA, 20.75 FT DEEP

INFLUENT LIFT STATION PUMPS:

1 DUTY, 1 STANDBY QUANTITY: TAG NO.: P-0101 & P-0102 TYPE: SUBMERSIBLE MFR/MODEL: **ZOELLER EX611** CAPACITY: 60 GPM @ 16 FT 1.0 HP MOTOR: CONSTANT SPEED SPEED CONTROL: POWER: 230V/1PH

INFLUENT EQUALIZATION BASIN:

QUANTITY: TAG NO.: TNK-301

23.42 FT L X 12.00 FT W BASIN SIZE: SIDE WATER DEPTH: 60 FT

WORKING VOLUME: 12,618 GALLONS

INFLUENT EQUALIZATION TRANSFER PUMPS:

QUANTITY: 1 DUTY, 1 STANDBY TAG NO.: P-0301 & P-0302 TYPE: SUBMERSIBLE MFR/MODEL: **ZOELLER NX282** CAPACITY: 37.6 GPM @ 20.0 FT MOTOR: 0.5 HP SPEED CONTROL: CONSTANT SPEED POWFR: 115V/1PH/60HZ

AUTOMATIC FINE SCREEN:

1 DUTY QUANTITY: TAG NO.: SCR-0201 MARATHON, NEWTERRA MFR/MODEL:

SCR-100 SCREEN/PERFORATION SIZE: 2 MM

CAPACITY: 100 GPM MOTOR SIZE: 0.5 HP

POWER: 115/208-230/1PH/60HZ

MAJOR EQUIPMENT SUMMARY:

AEROBIC BASIN:

QUANTITY: ZONE TAG NO .: TNK-501 BASIN SIZE: 18.0 FT L X 12.0 FT W SIDE WATER DEPTH: 6.0 FT WORKING VOLUME: 9,697 GALLONS

MEMBRANE FEED PUMPS:

2 DUTY, 1 SHARED SHELF QUANTITY: SPARE TAG NO.: P-0501, P-0502 MFR/MODEL: BARNES 2SEV524L CAPACITY: 56.4 GPM @ 21 FT MOTOR SIZE: 0.75 HP SPEED CONTROL: CONSTANT SPEED 230V/1PH/60HZ POWER:

MBR REACTOR BASIN:

QUANTITY: TAG NO.: TNK-601 & TNK-602 BASIN SIZE: 3.35 FT L X 5.39 FT W SIDE WATER DEPTH: 6.89 FT WORKING VOLUME: 862 GALLONS

MEMBRANES:

MEMBRANE TYPE: ZEEWEED 500S MEMBRANE SURFACE AREA: 300 FT² (PER MODULE) MODULES/MEMBRANE TANK: 6 FLUX: 15.0 GFD

MBR PERMEATE PUMPS:

2 DUTY, 2 STANDBY QUANTITY: P-0701 & P-0702; TAG NO .: P-0704 & P-0705 MFR/MODEL: GOULDS 1ST1D9F4 CAPACITY: 20.9 GPM @ 48 FT MOTOR SIZE: 0.75 HP SPEED CONTROL: POWFR: 230/460V/3PH/60HZ

SLUDGE HOLDING TANK:

QUANTITY: TAG NO.: TNK-901 BASIN SIZE: 11.25 FT L X 12.00 FT W SIDE WATER DEPTH: 6.0 FT WORKING VOLUME: 6.061 GALLONS

SLUDGE DECANT PUMP:

QUANTITY: 2 DUTY TAG NO.: P-0901 & P-0902 TYPE: SUBMERSIBLE BARNES 2SEV524L MFR/MODEL: CAPACITY: 25 GPM @ 20 FT MOTOR SIZE: 0.75 HP SPEED CONTROL: CONSTANT SPEED VOLTAGE/PHASE: 230V/1PH/60HZ

MEMBRANE BACKWASH TANK:

QUANTITY: TAG NO.: TNK-801 TANK SIZE: 43 INCH DIA X 50 INCH TALL VOLUME:

240 GALLONS

MAJOR EQUIPMENT SUMMARY:

MEMBRANE BACKPULSE PUMP:

QUANTITY: 1 DUTY, 1 STANDBY TAG NO.: P-0801 & P-0802 MFR/MODEL: GOULDS 1ST2C9D4 CAPACITY: 12.5 GPM @ 18 FT MOTOR SIZE: 0.5 HP

SPEED CONTROL: VFD POWER: 208-230V/460V/3P/60HZ

CIP SODIUM HYPOCHLORITE FEED SYSTEM:

QUANTITY: TAG NO.: P-6104 MFR/MODEL:

SHURFLO 2088-394-144 CAPACITY: 4.5 GPH UP TO 45 PSI **VOLTAGE & PHASE:** 115V/1P/60HZ TANK CAPACITY: 55 GALLONS

CIP CITRIC ACID FEED SYSTEM:

QUANTITY: TAG NO.: P-6105 MFR/MODEL: SHURFLO 2088-394-144

CAPACITY: 4.5 GPH UP TO 45 PSI **VOLTAGE & PHASE:** 115V/1P/60HZ 55 GALLONS TANK CAPACITY:

ALUMINUM SULFATE CHEMICAL FEED SYSTEM: QUANTITY:

TAG NO.: P-6101 MFR/MODEL: PROMINENT

BT4B1602PVT2000UD010A01 CAPACITY: 0.58 GPH @ 232 PSI MAX 17 W POWFR: VOLTAGE / PHASE: 100-240V/60HZ FEED TANK CAPACITY:

55 GALLONS

CAUSTIC SODA FEED SYSTEM:

QUANTITY: TAG NO.: P-6102 MFR/MODEL: PROMINENT

BT4B1602PVT2000UD010A01 CAPACITY: 0.58 GPH @ 232 PSI MAX POWER: 17 W VOLTAGE/PHASE: 100-240V/60HZ

FEED TANK CAPACITY: 55 GALLONS

MICRO-C CHEMICAL FEED SYSTEM:

QUANTITY: P-6103 TAG NO.: MFR/MODEL: **PROMINENT** BT4B1602PVT2000UD010A01

CAPACITY: 0.58 GPH @ 232 PSI MAX POWER: 17 W VOLTAGE/PHASE: 100-240V/60HZ

TANK CAPACITY: 55 GALLOŃS

UV DISINFECTION SYSTEM:

QUANTITY: 1 DUTY, 1 STANDBY TAG NO.: UV-0701 & UV-0702 MFR/MODEL: UVPURE HALLETT 1000W CAPACITY: 41.8 GPM POWER: 120V/1P/60HZ

MAJOR EQUIPMENT SUMMARY:

INFLUENT FLOW MEASUREMENT:

QUANTITY: TAG NO.: FIT-0201

MFR/MODEL: ENDRESS + HAUSER LTD. 5W4C40-C6DLHA0DUA120A+L4

SIZE: 1.5 INCH

EFFLUENT FLOW MEASUREMENT:

QUANTITY: TAG NO.: FIT-0702

MFR/MODEL: IFM EFECTOR SM2601

SIZE: 2 INCH

PORTABLE HOIST:

MFR/MODEL: HALLIDAY PRODUCTS D1A24C

W/36" REACH

HOIST SOCKET: HALLIDAY PRODUCTS EMBED SOCKET

QUANTITY: WALL SOCKET: HALLIDAY PRODUCTS WALL SOCKET

QUANTITY:

QUANTITY:

AUTODIALER/ALARMS: ETHERNET CONNECTION TO CELLULAR HOTSPOT

PRIMARY POWER:

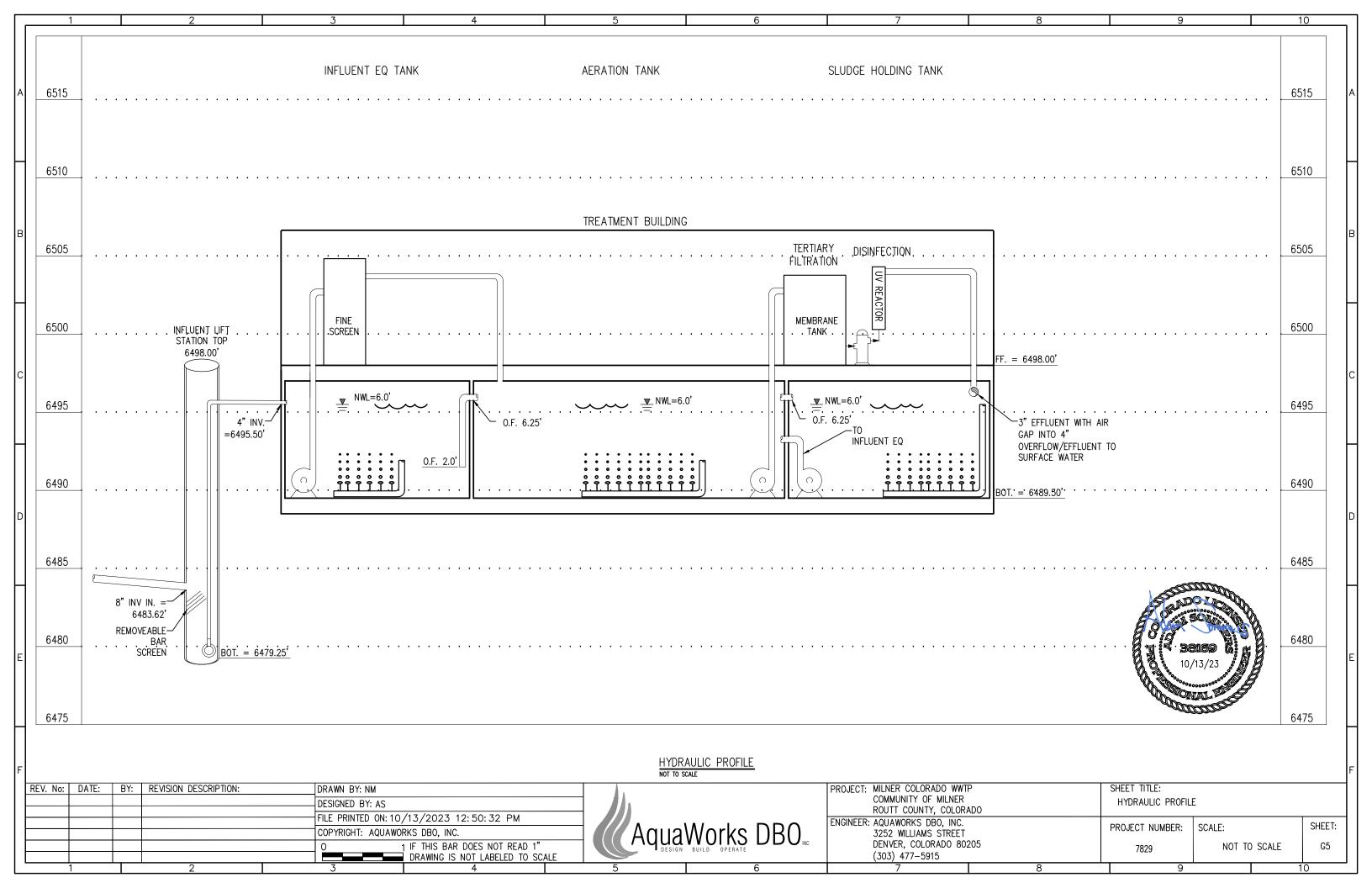
PRIMARY POWER: XCEL

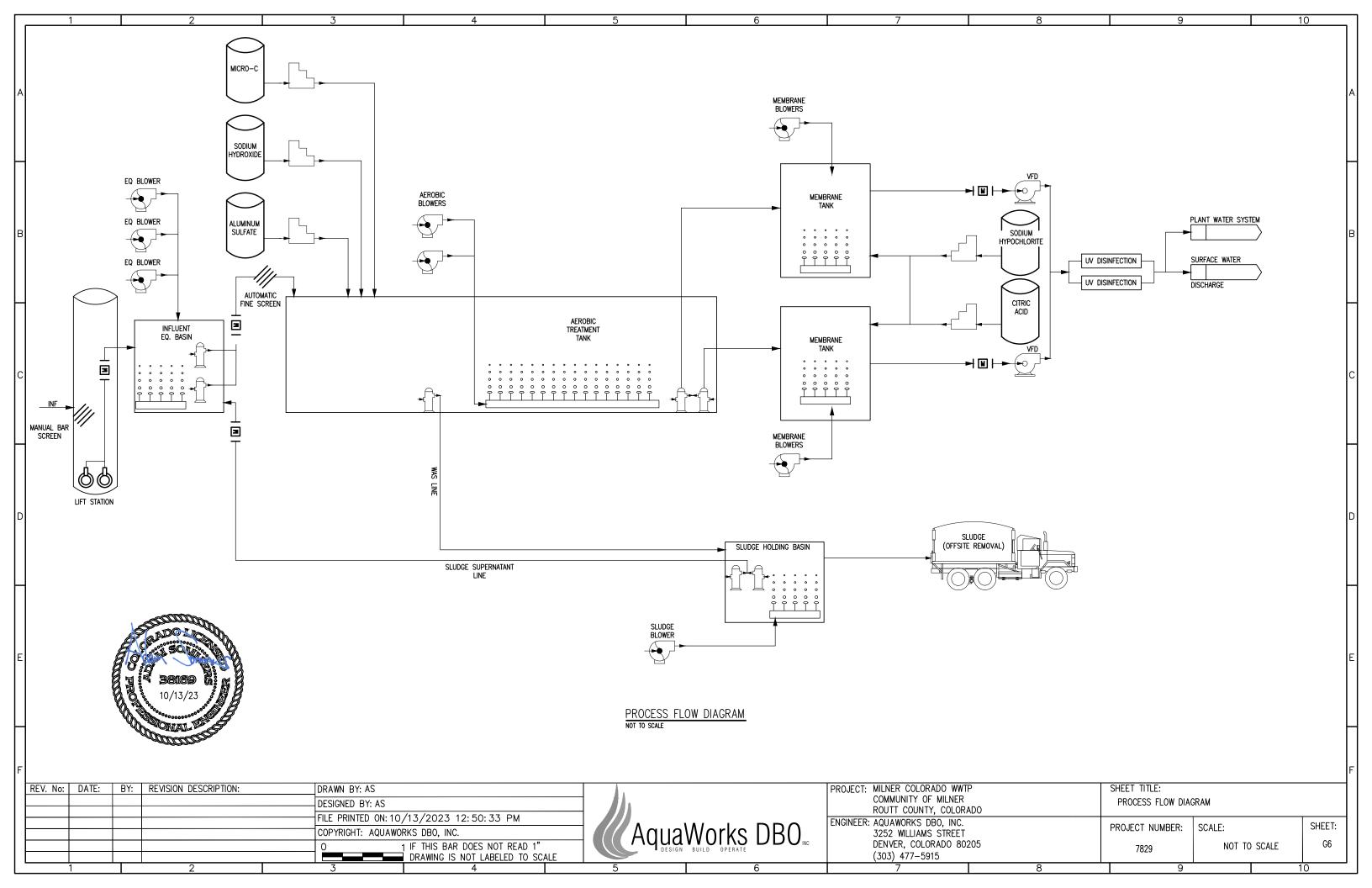
SERVICE: 240V/1PH

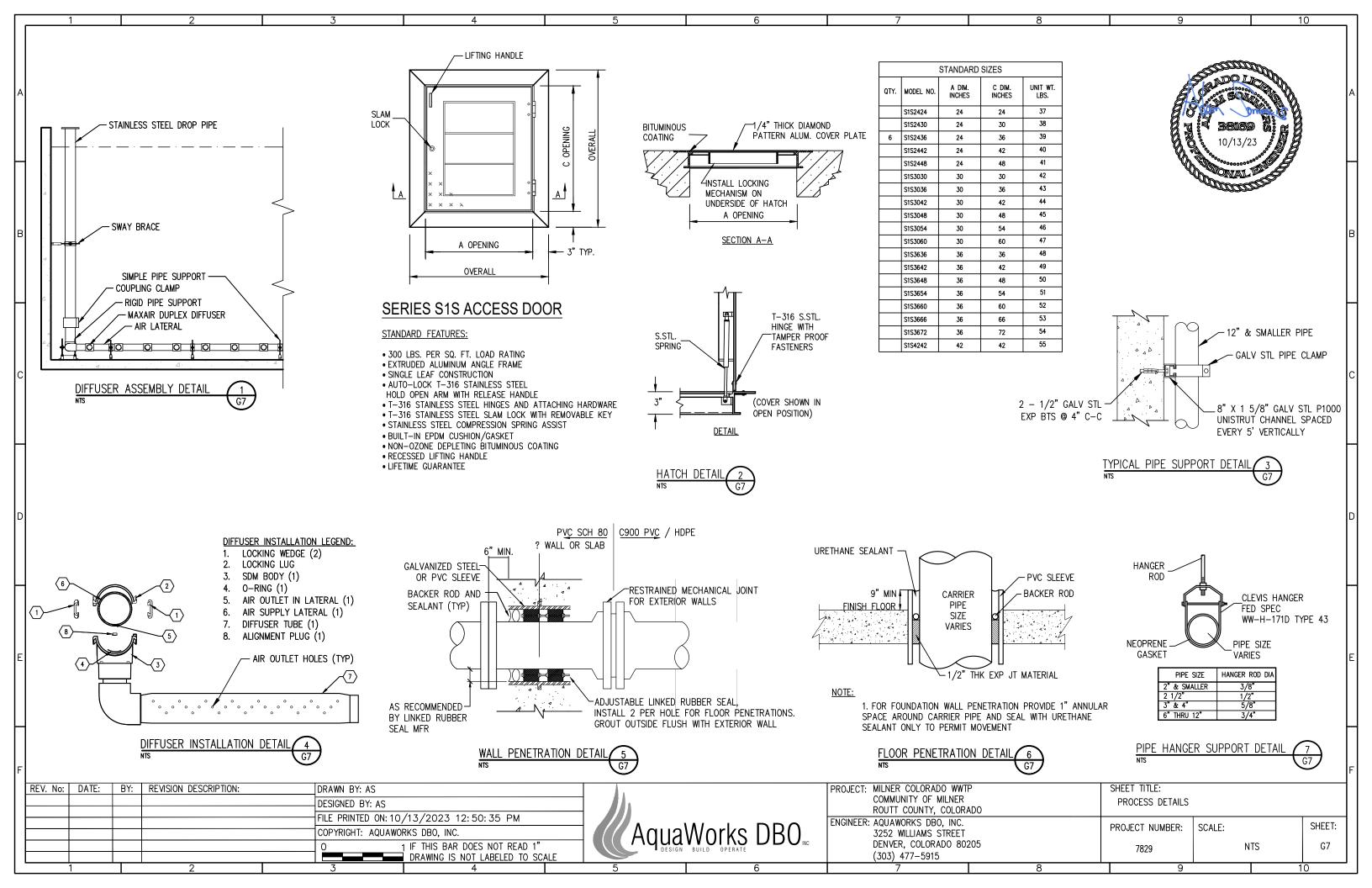
PRIMARY SOURCE: EXISTING BURIED POWER LINES

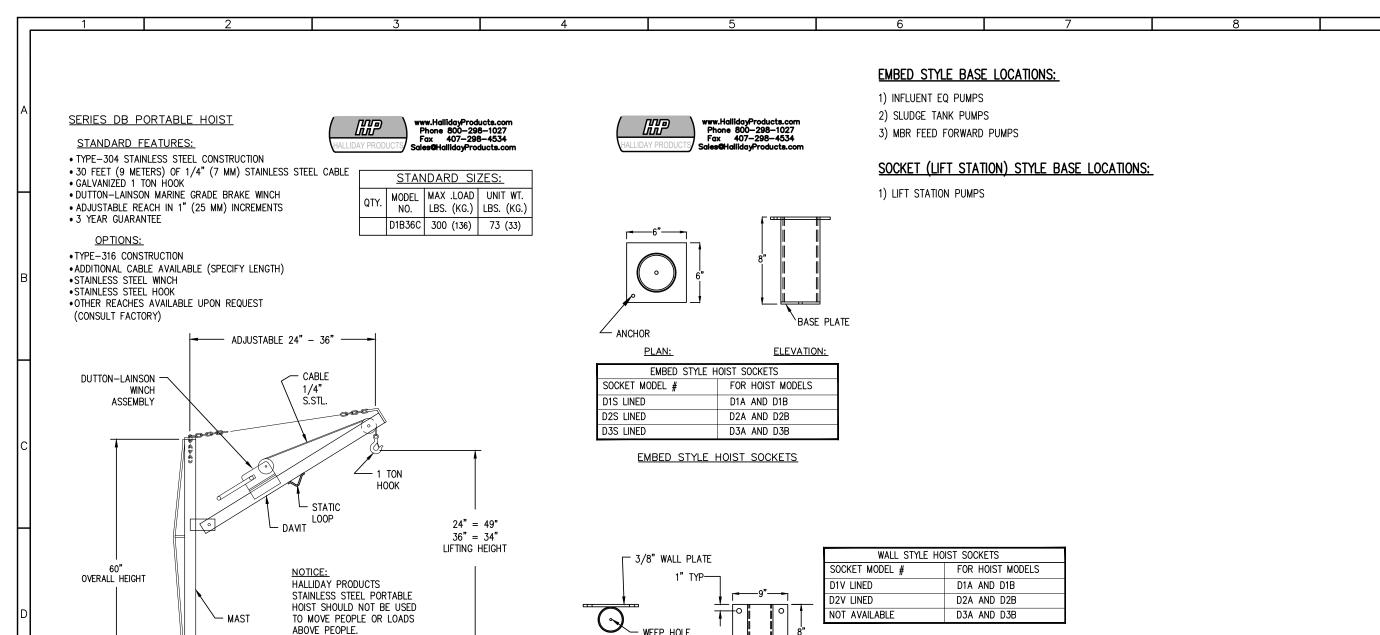


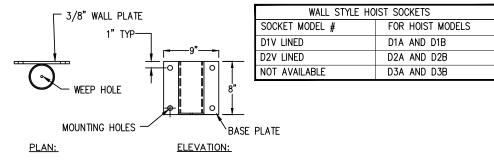
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LIFT STATION HOIST SOCKET

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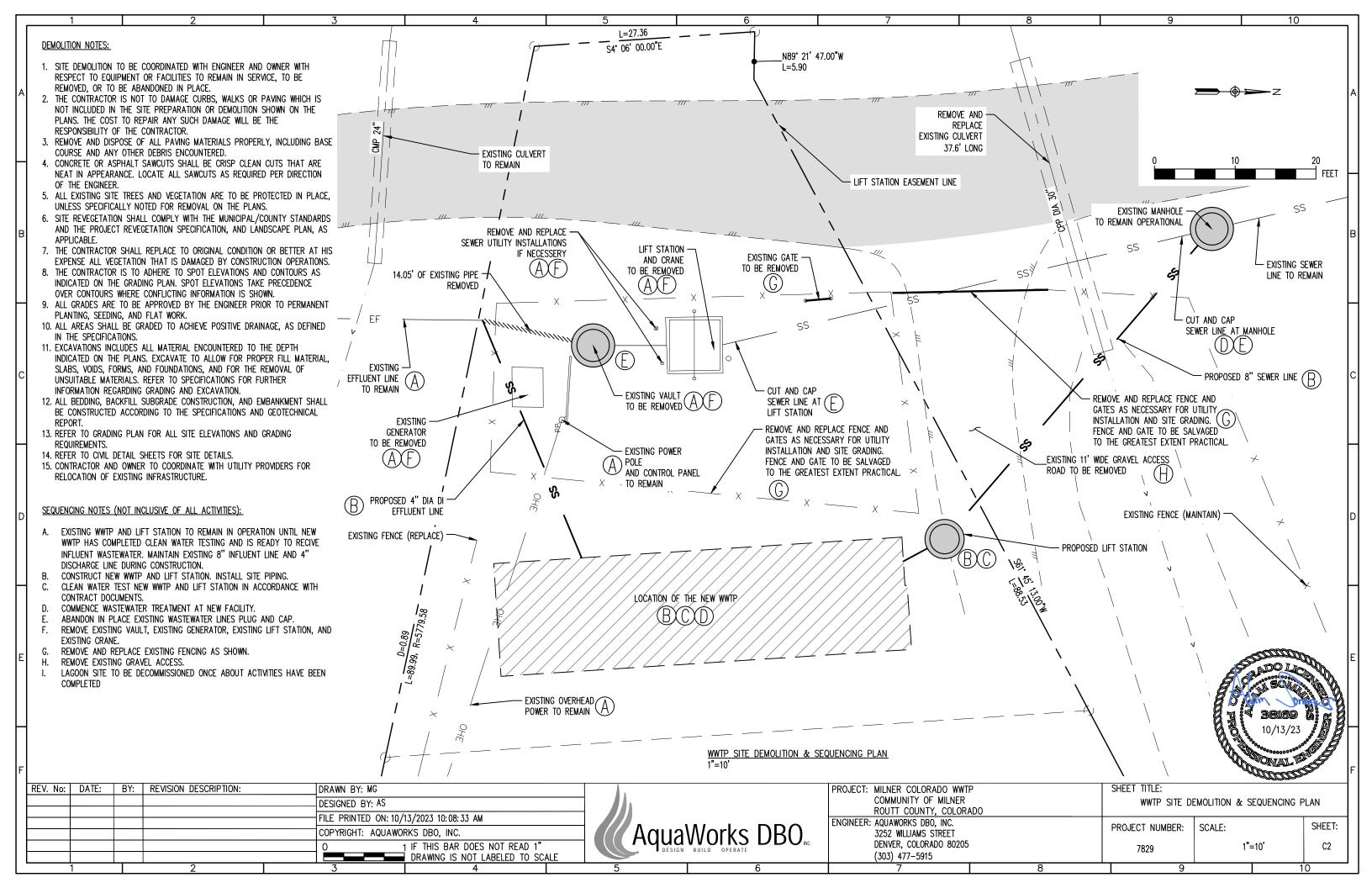
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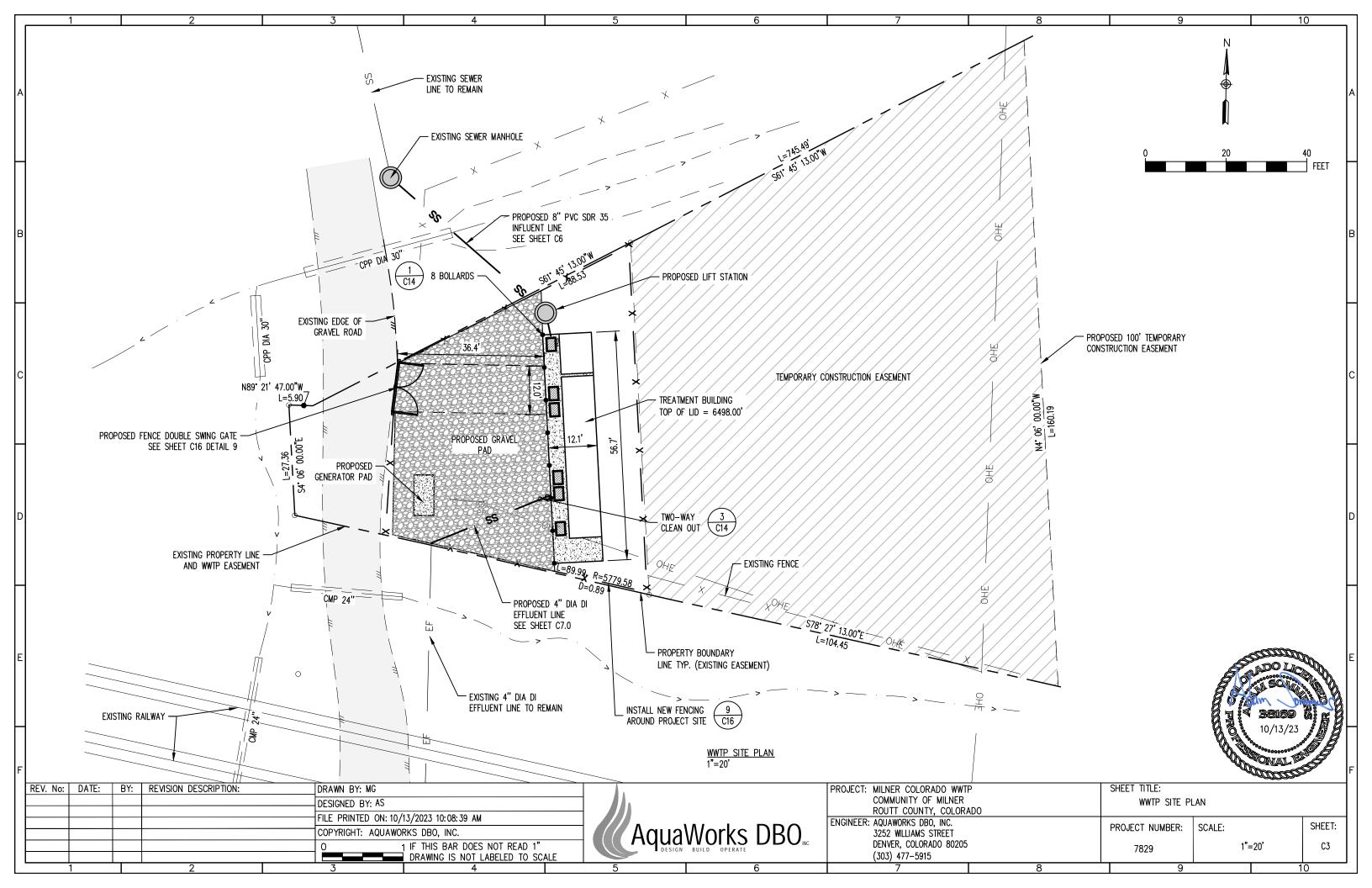


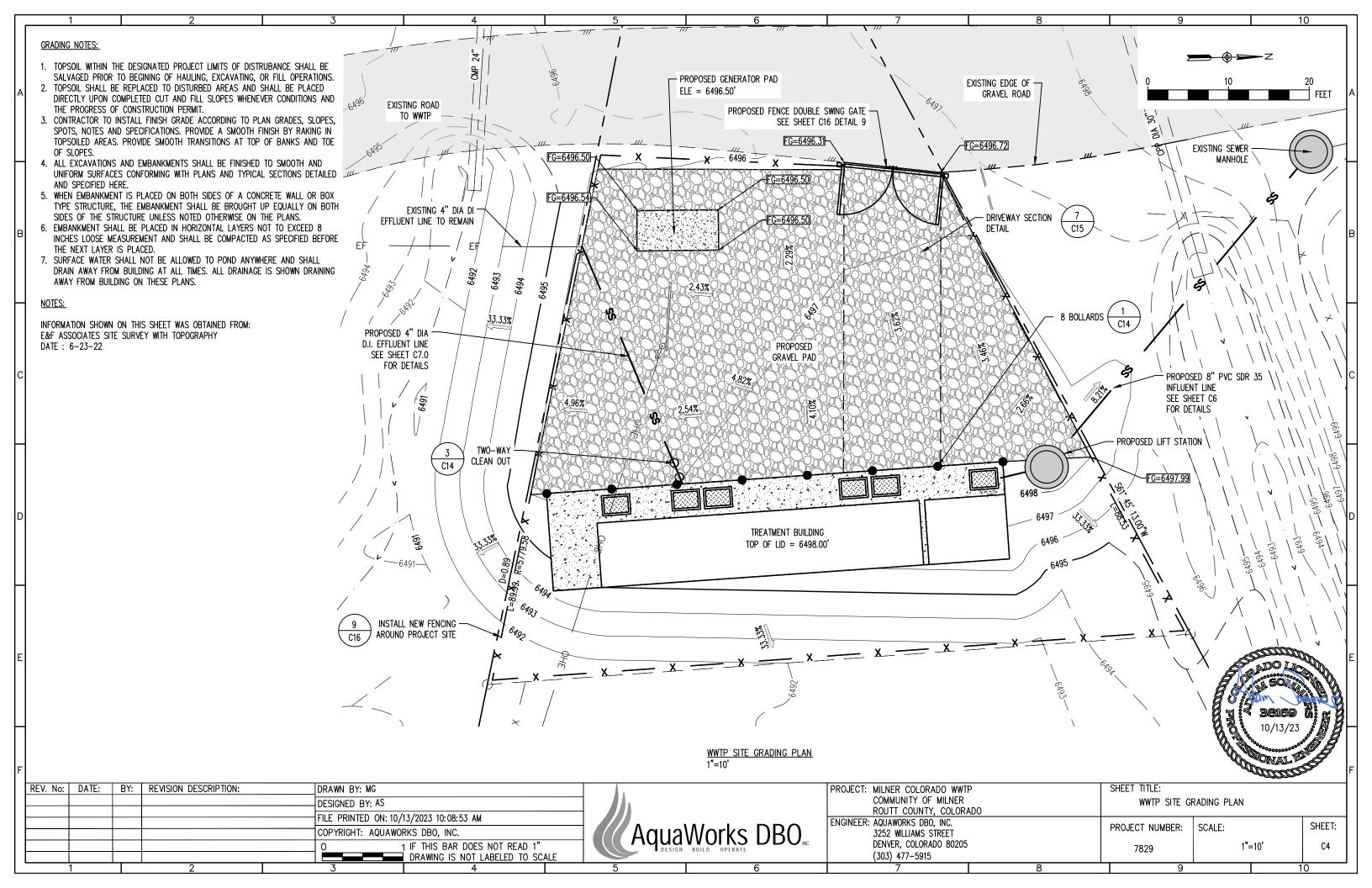
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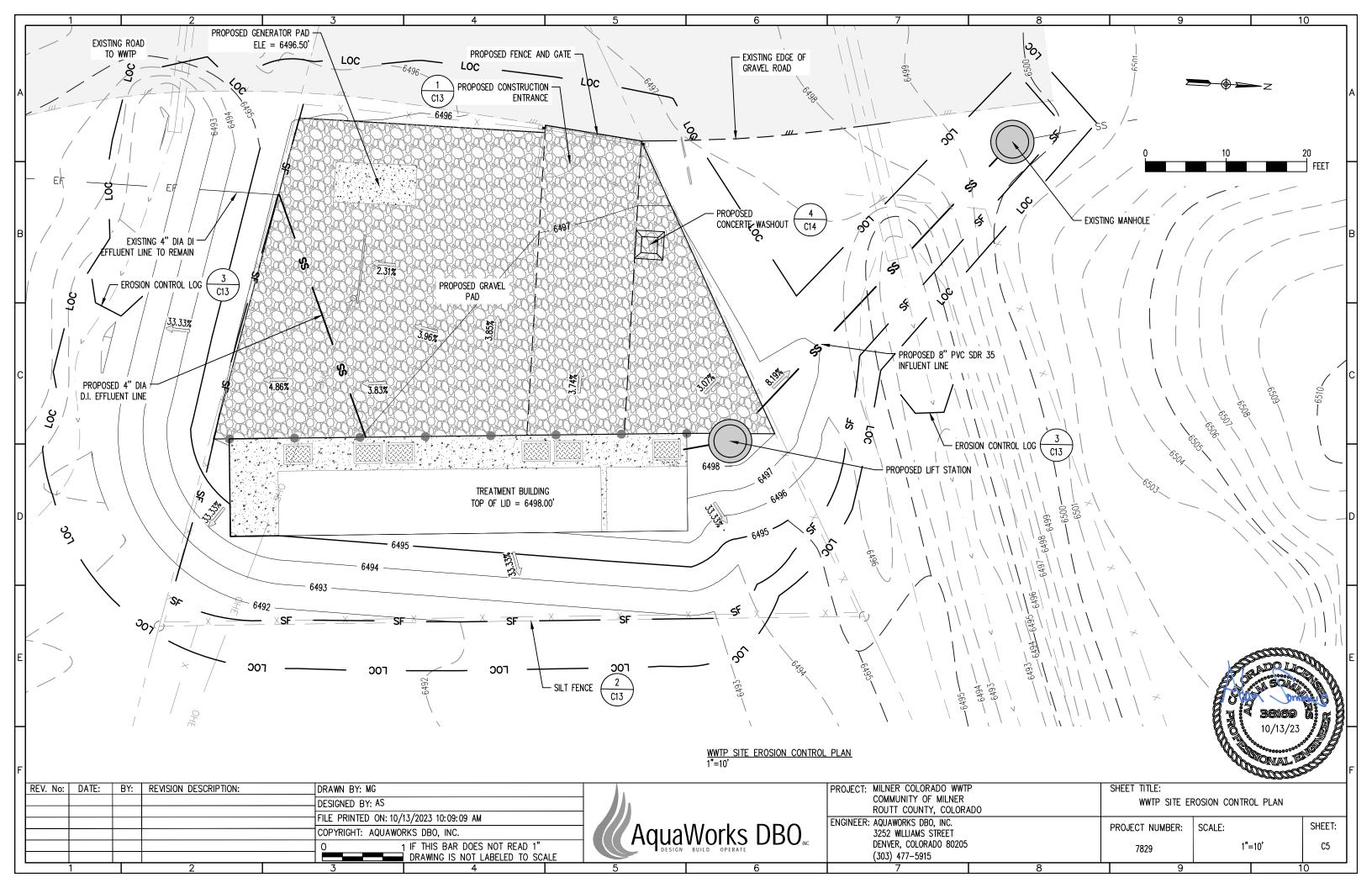
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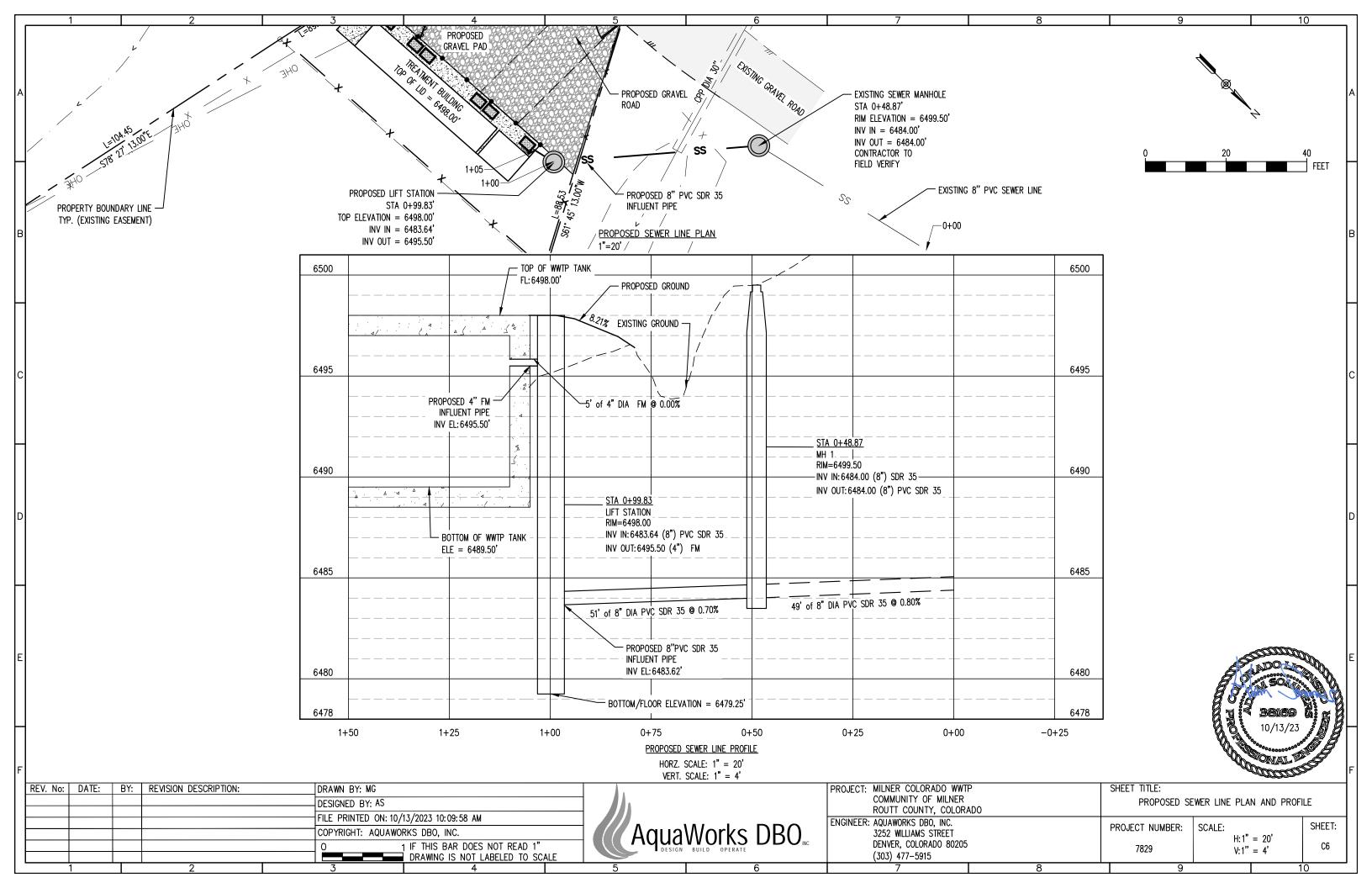


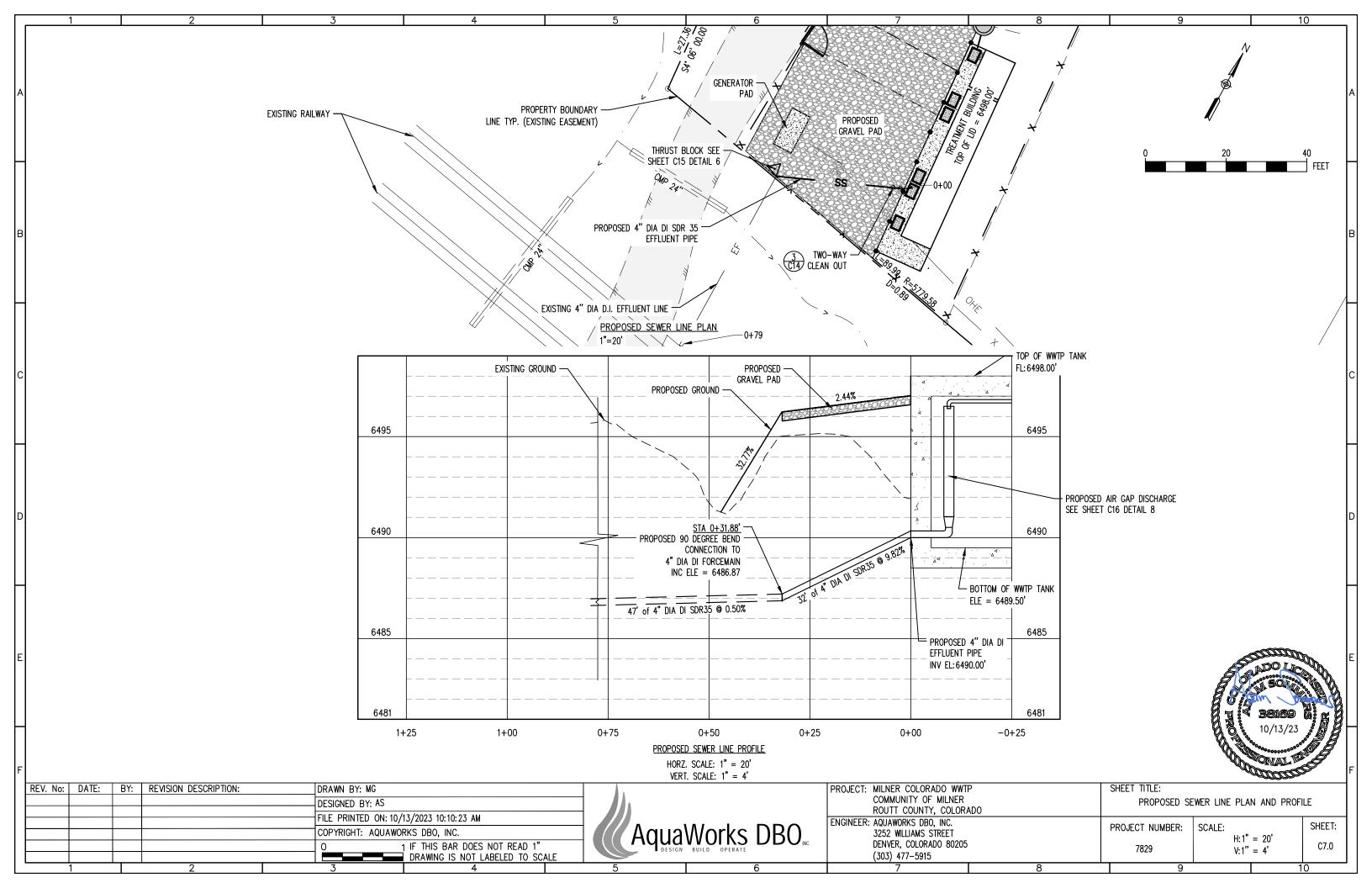


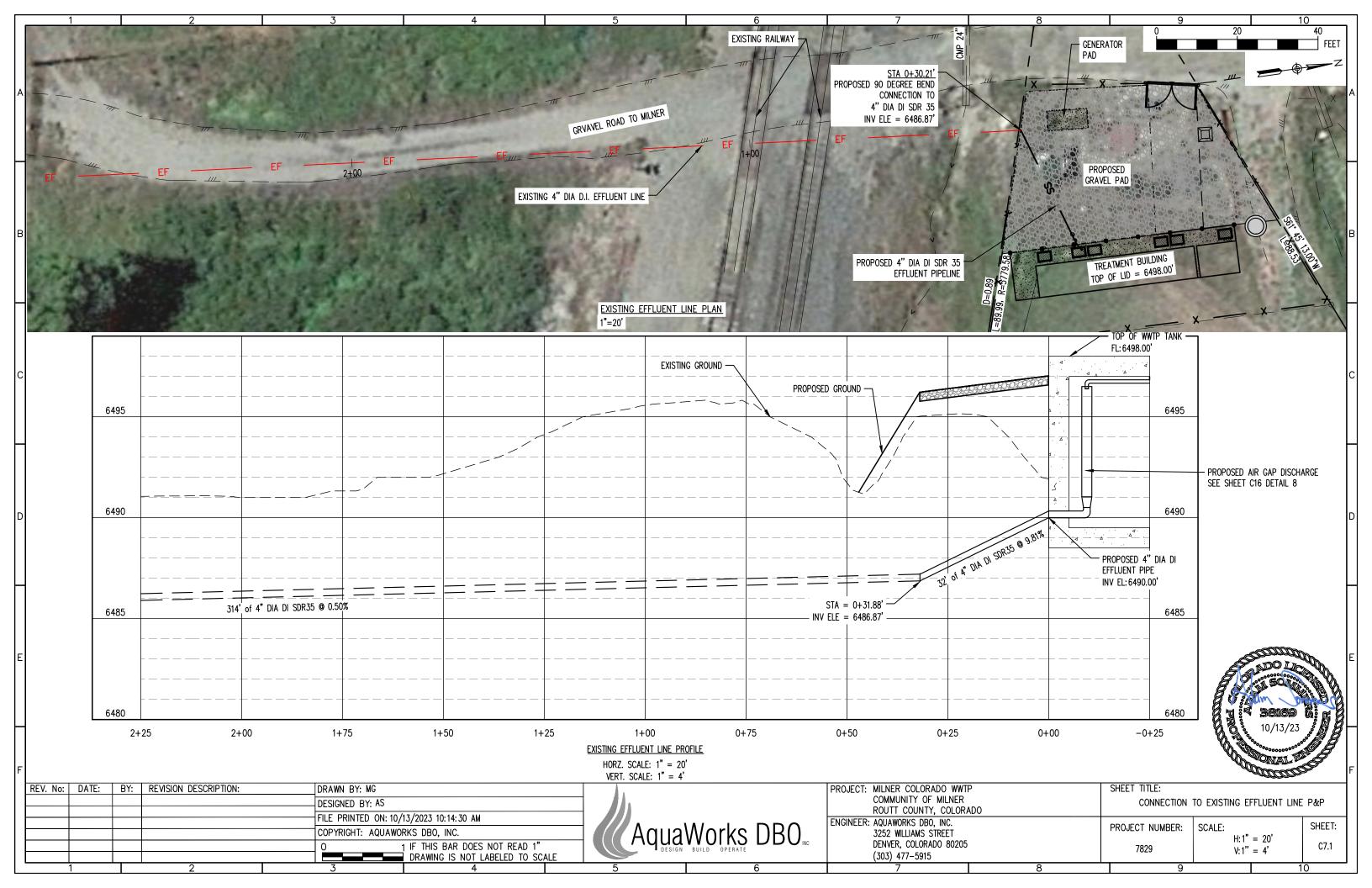


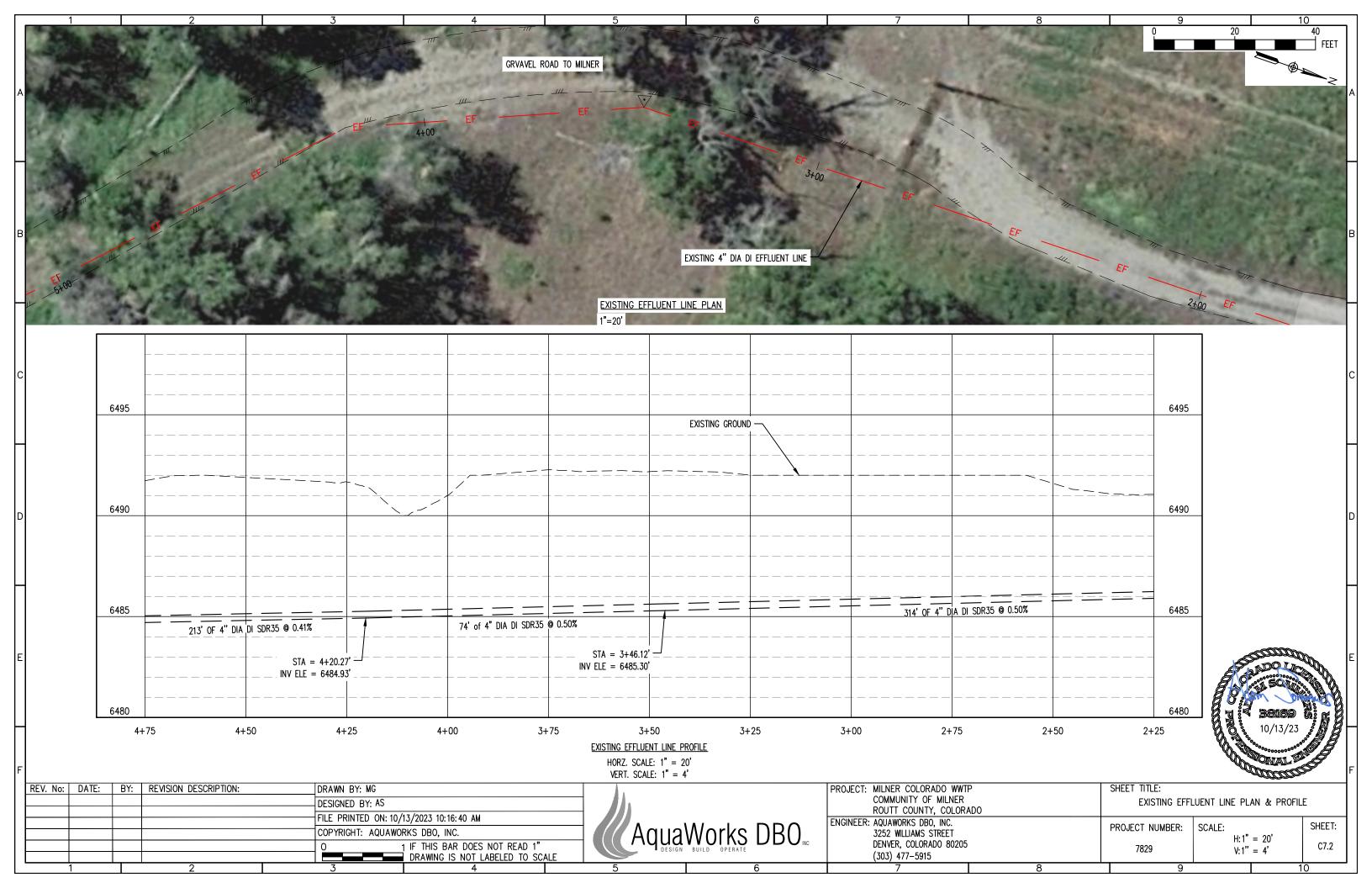


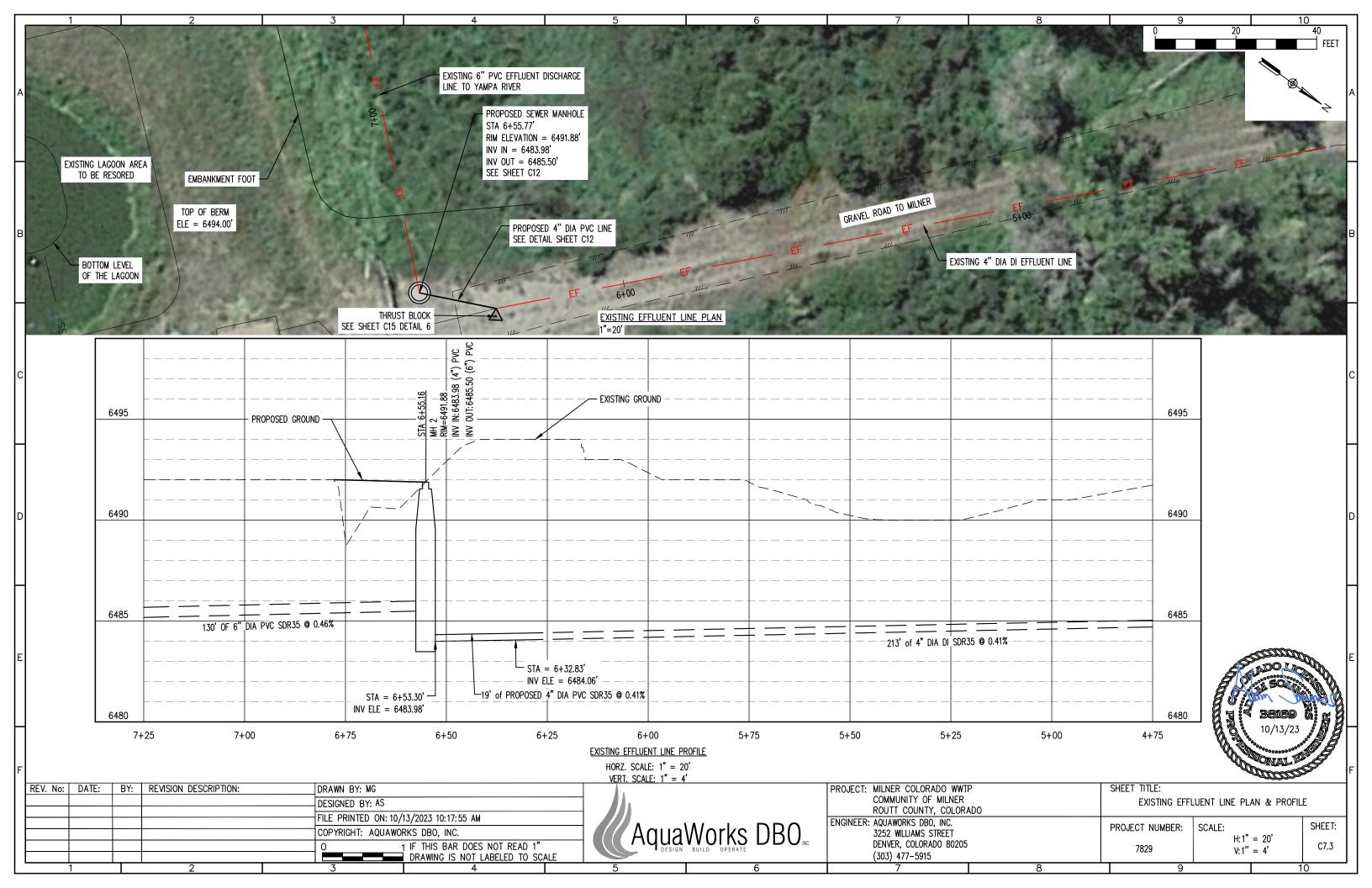


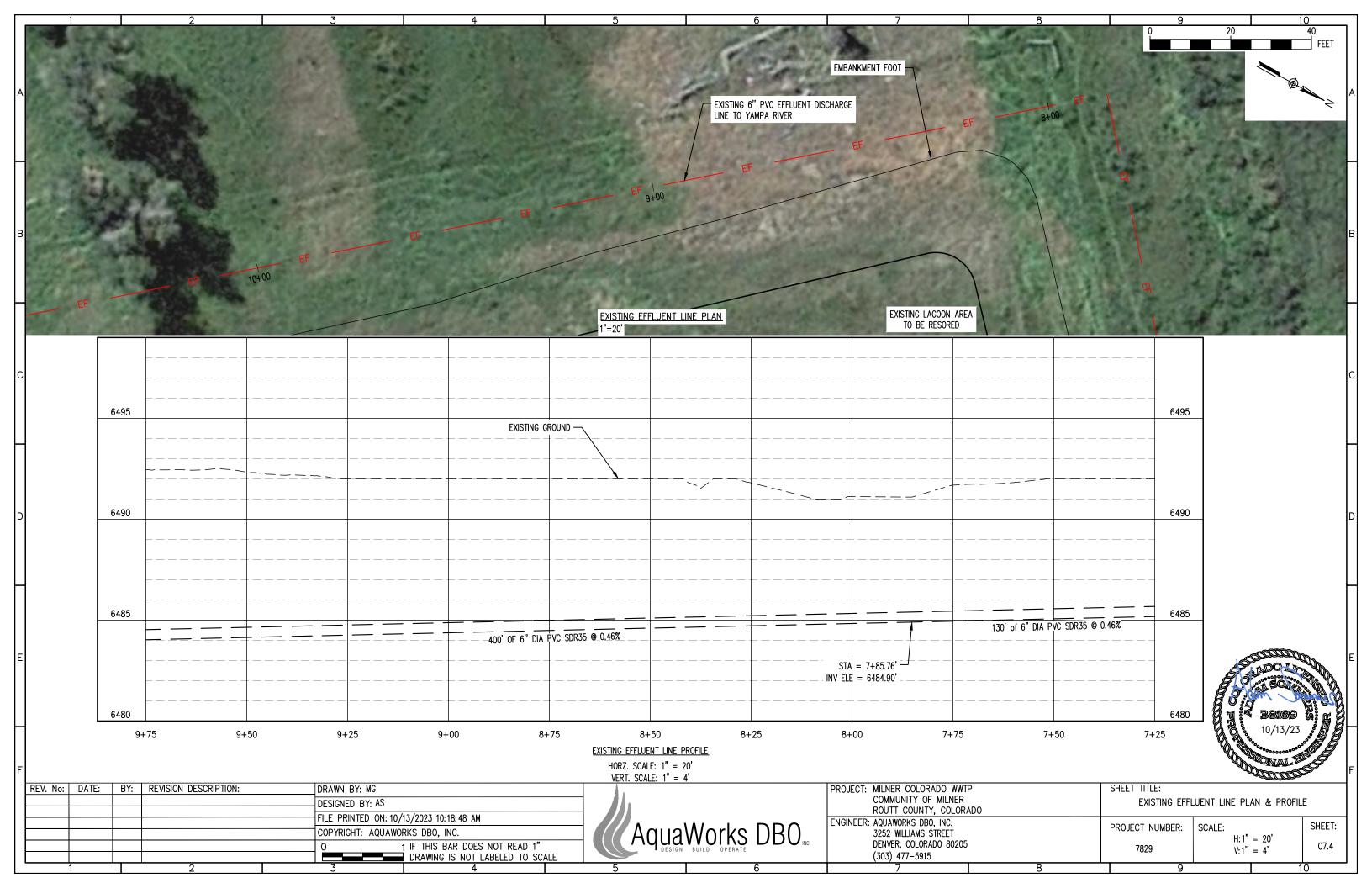


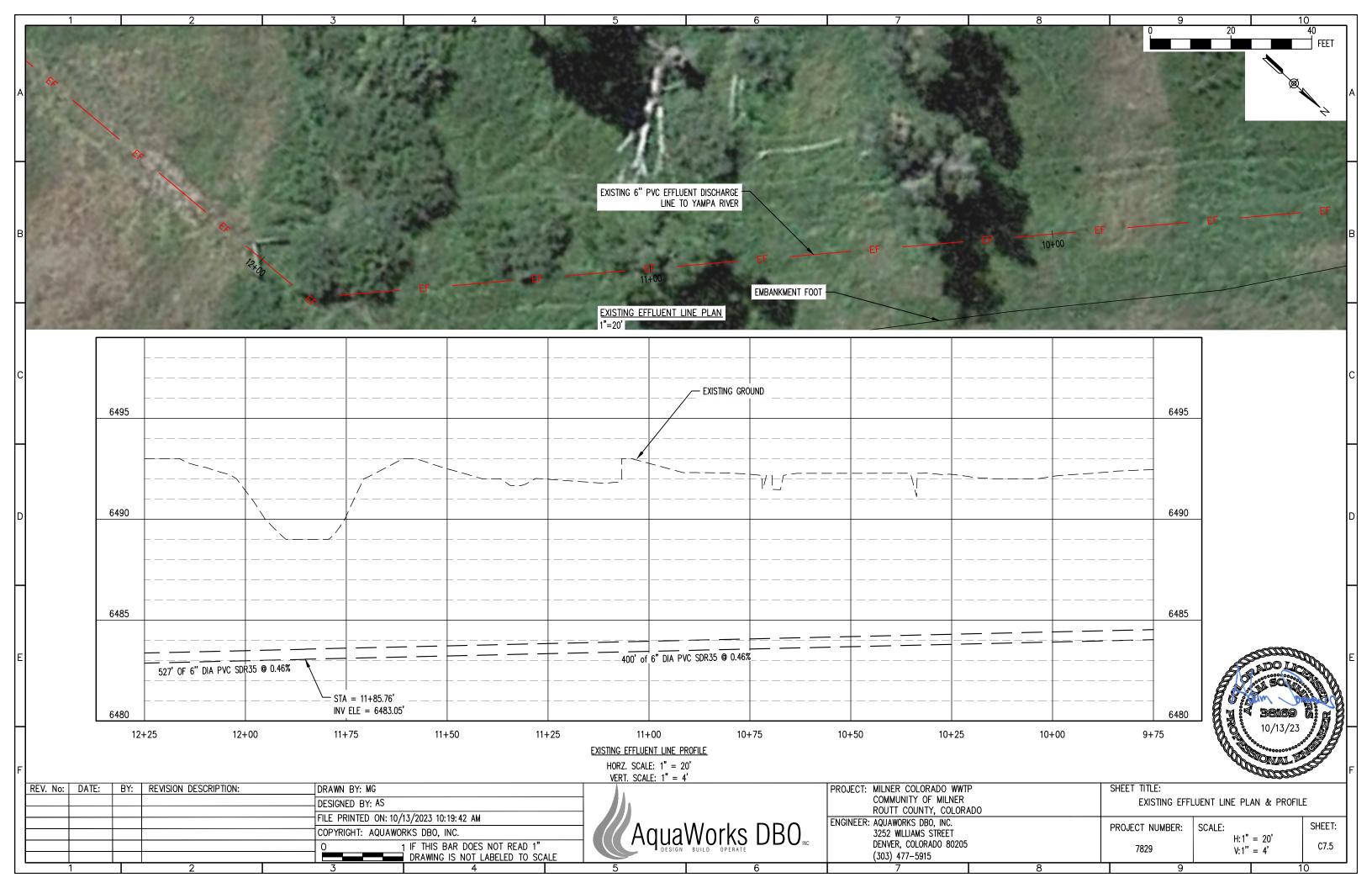


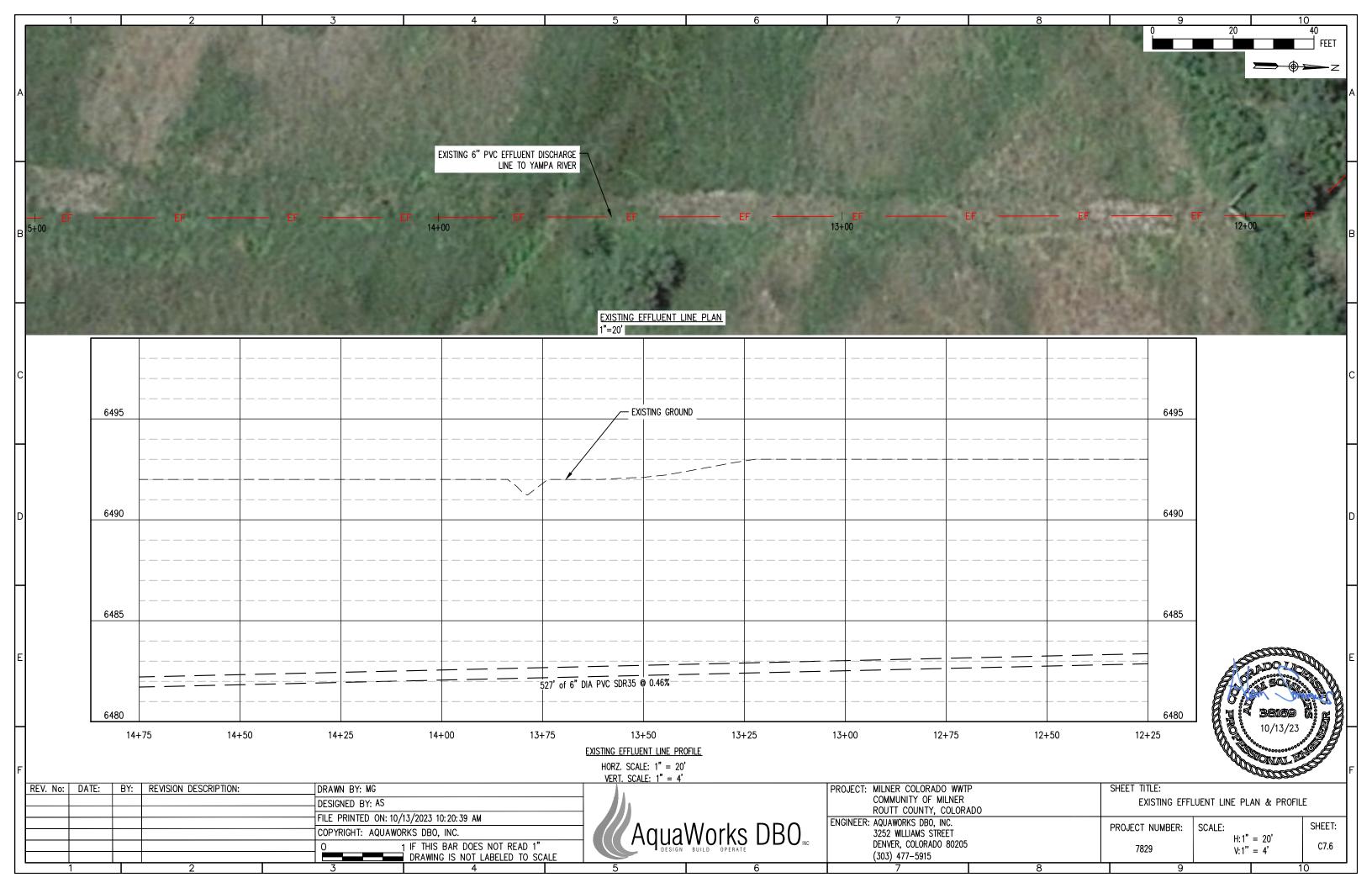


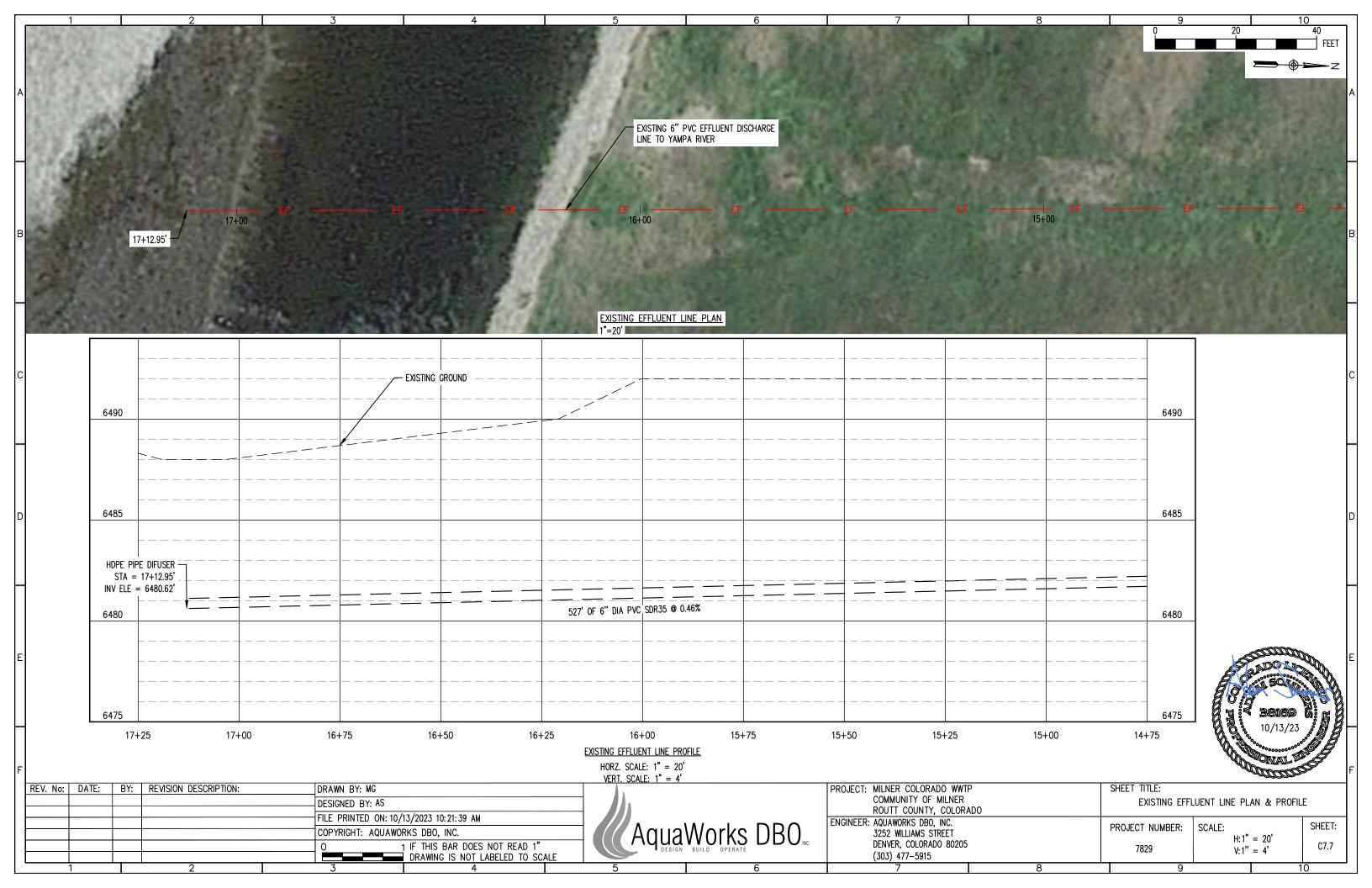


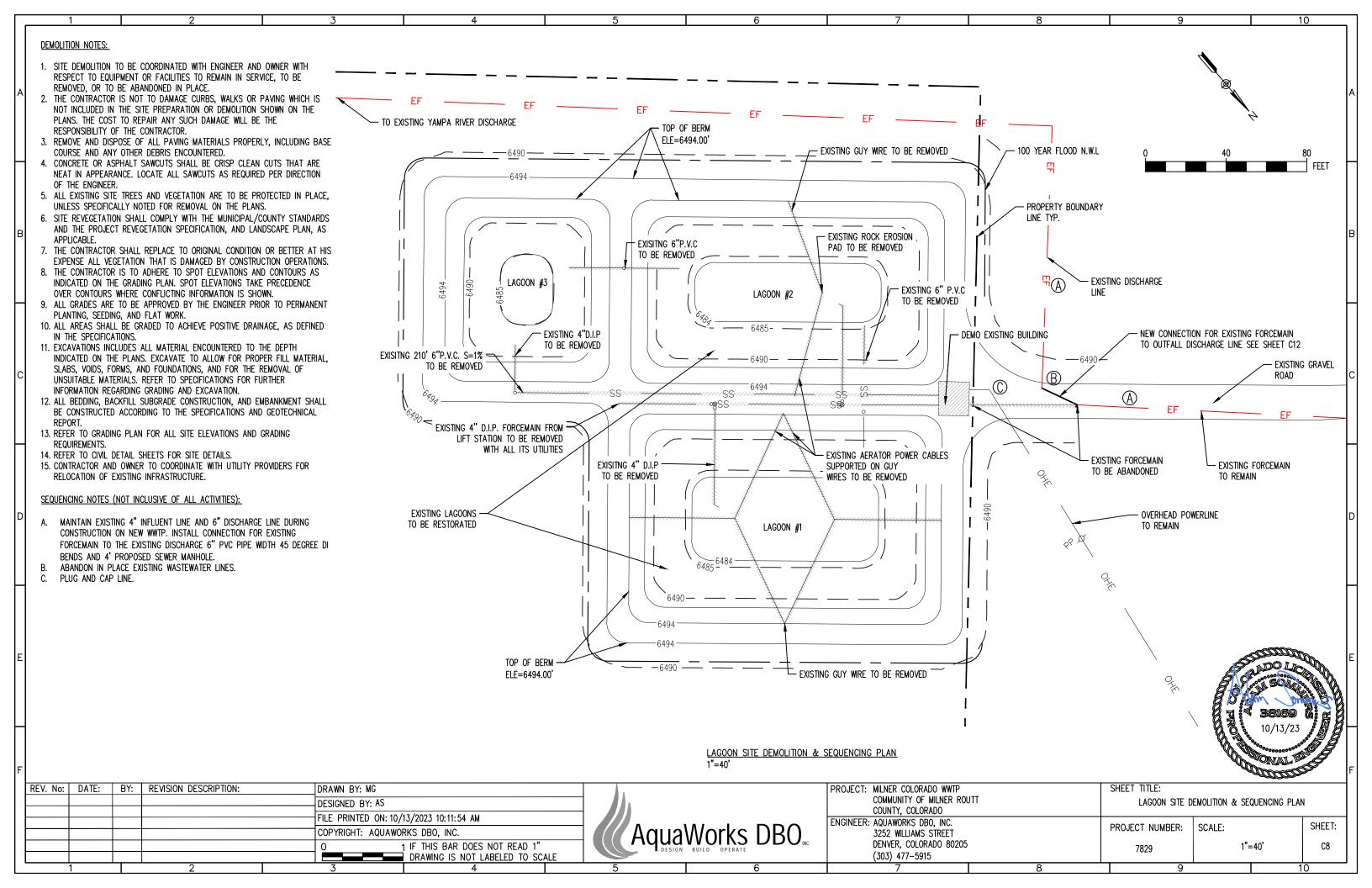


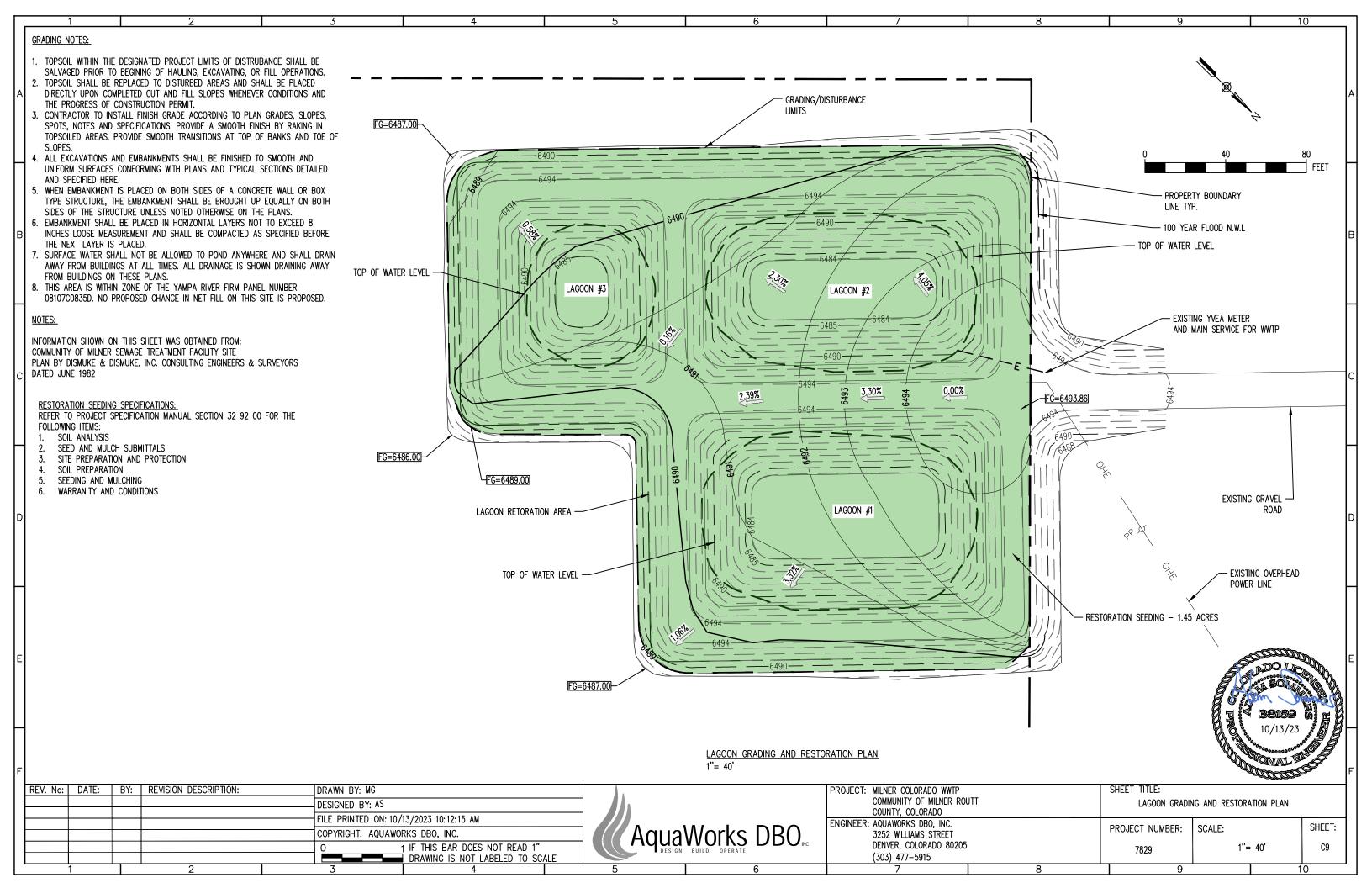


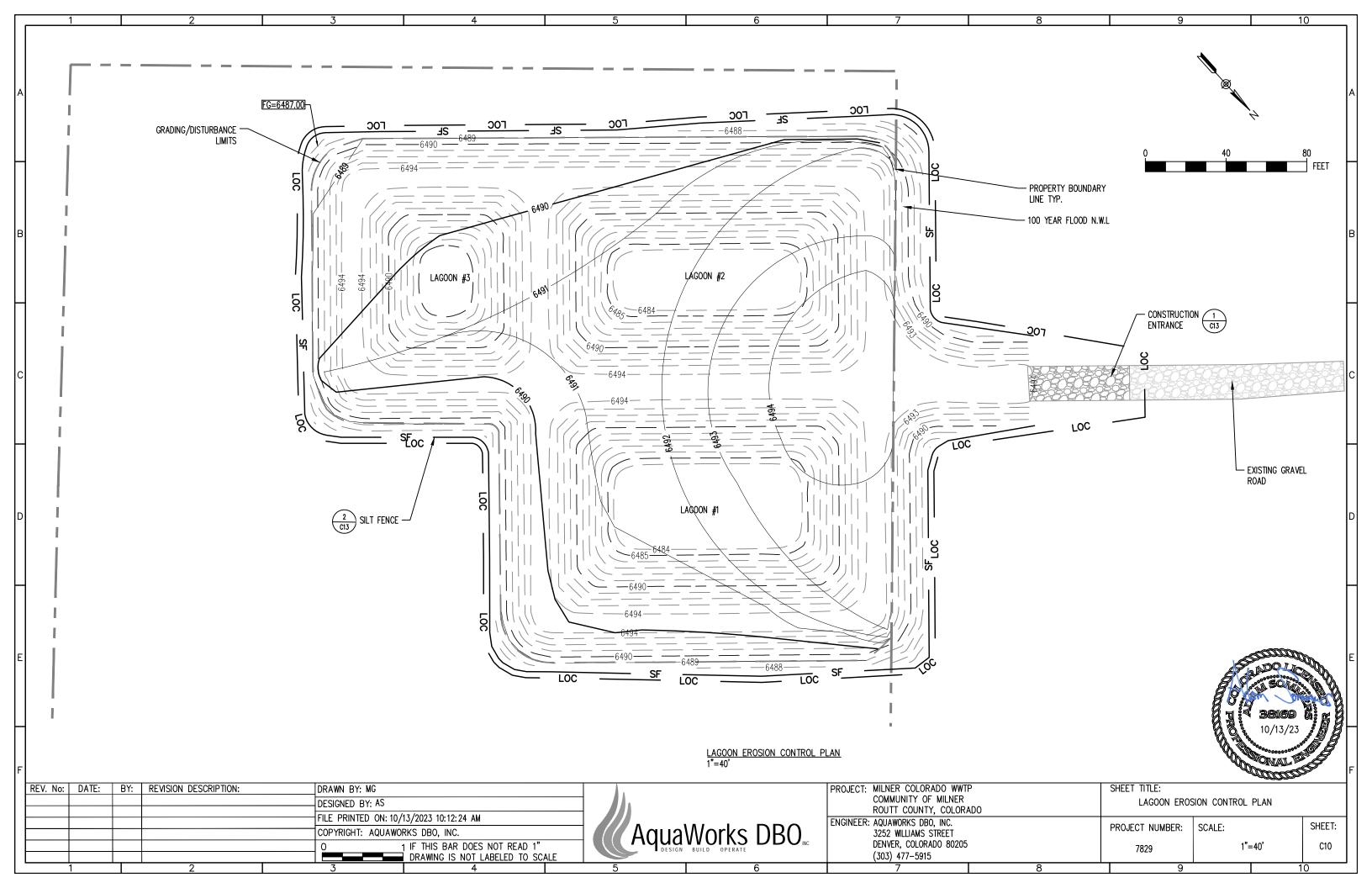




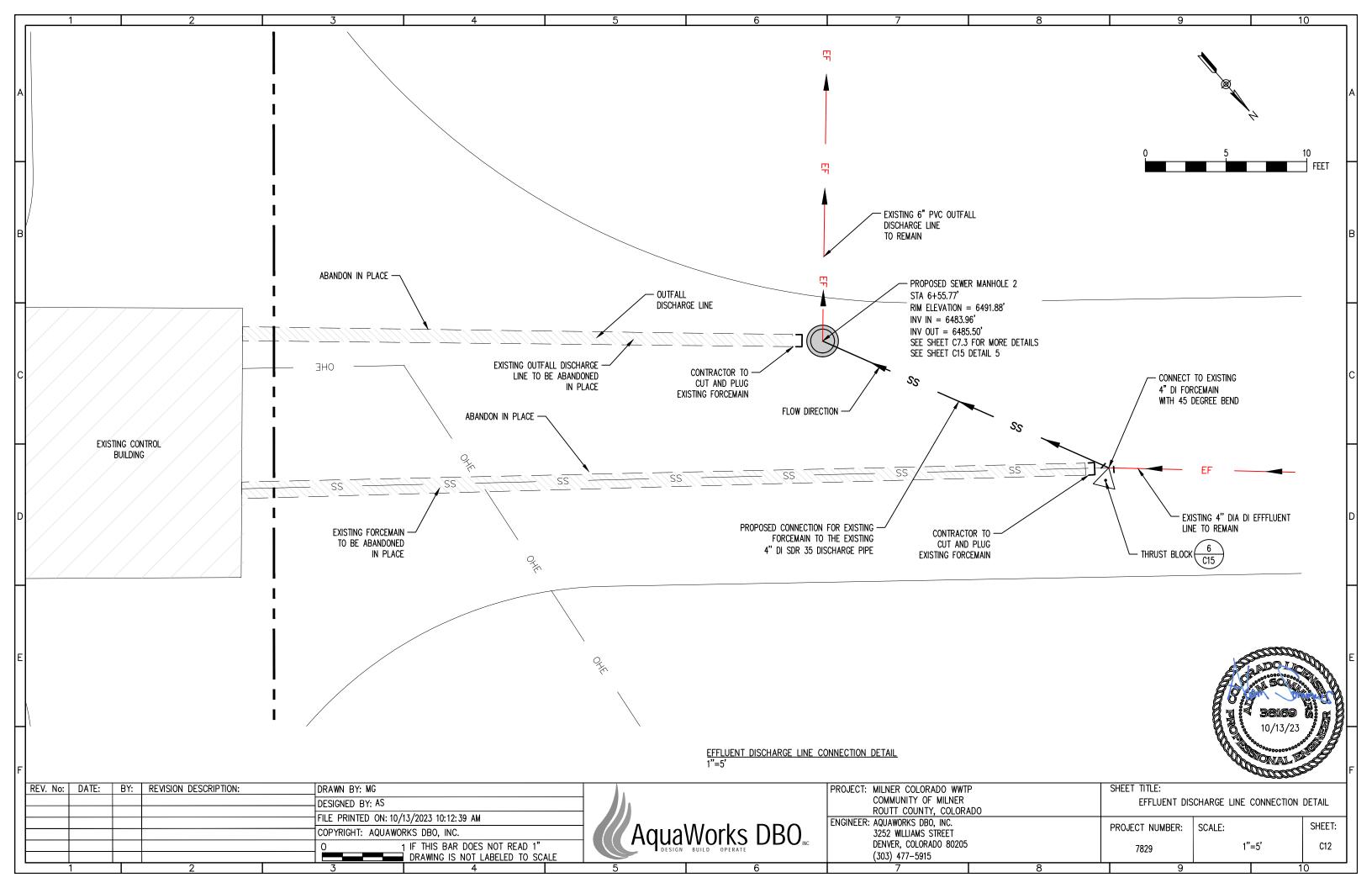


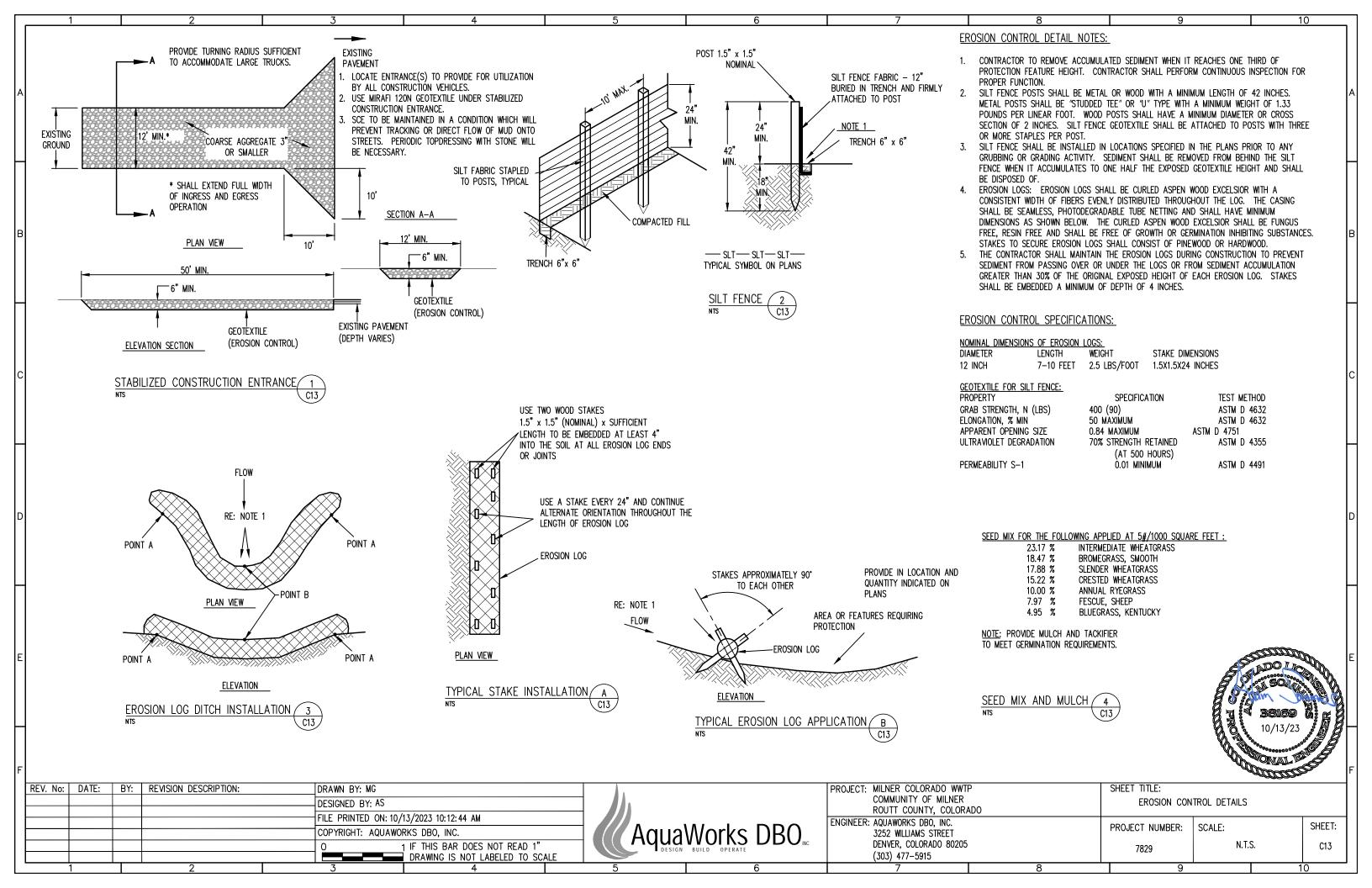


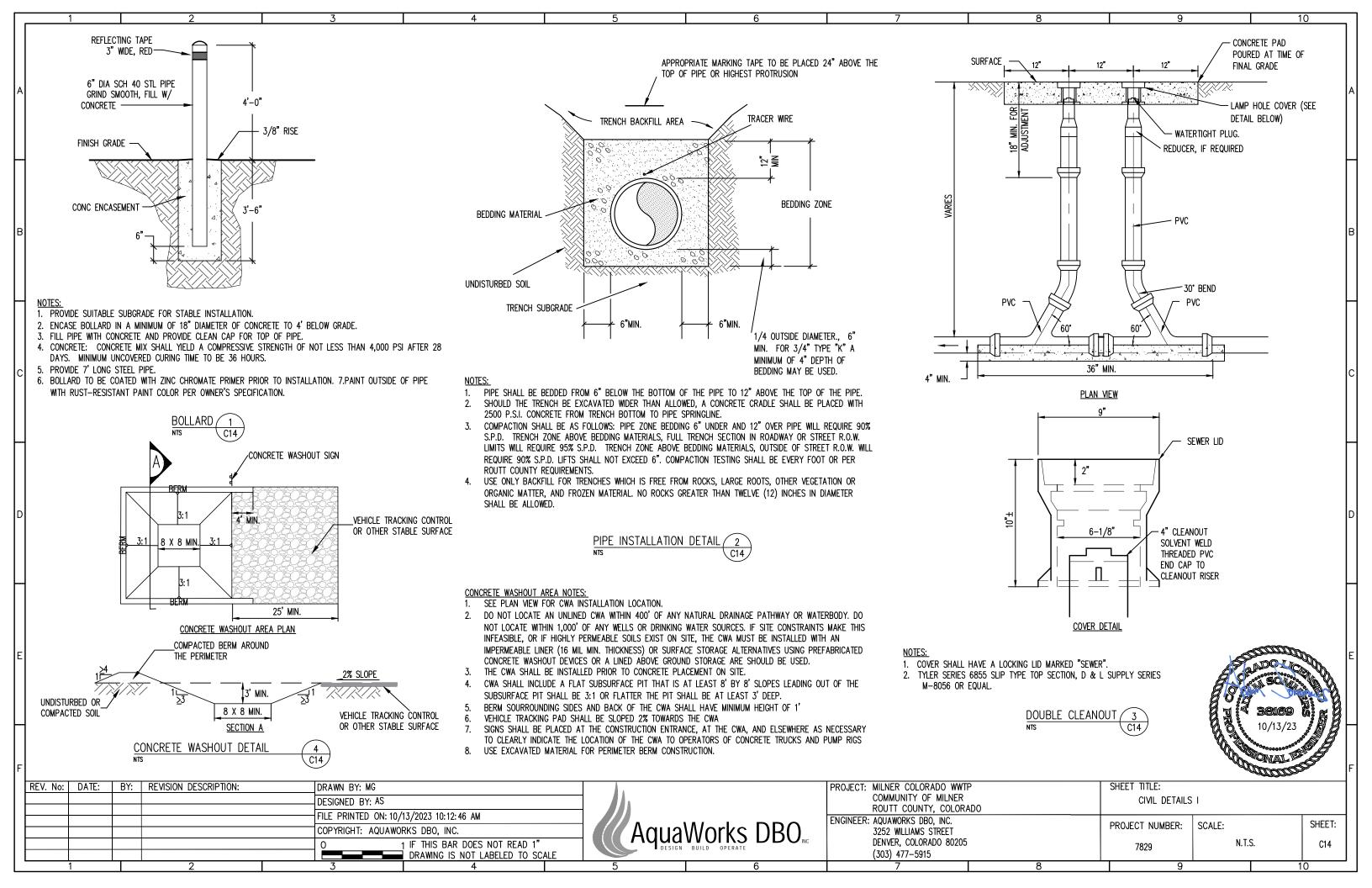


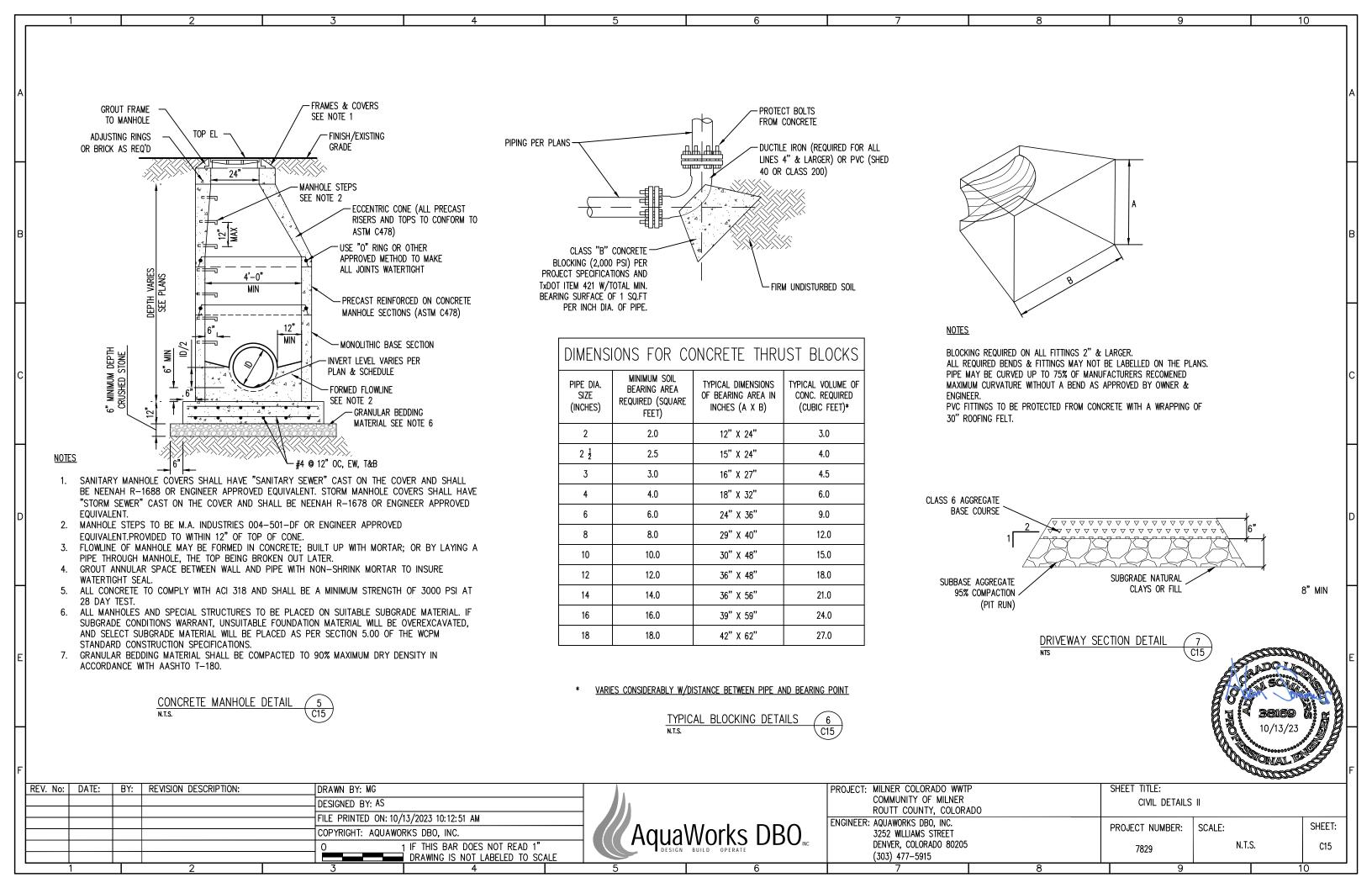


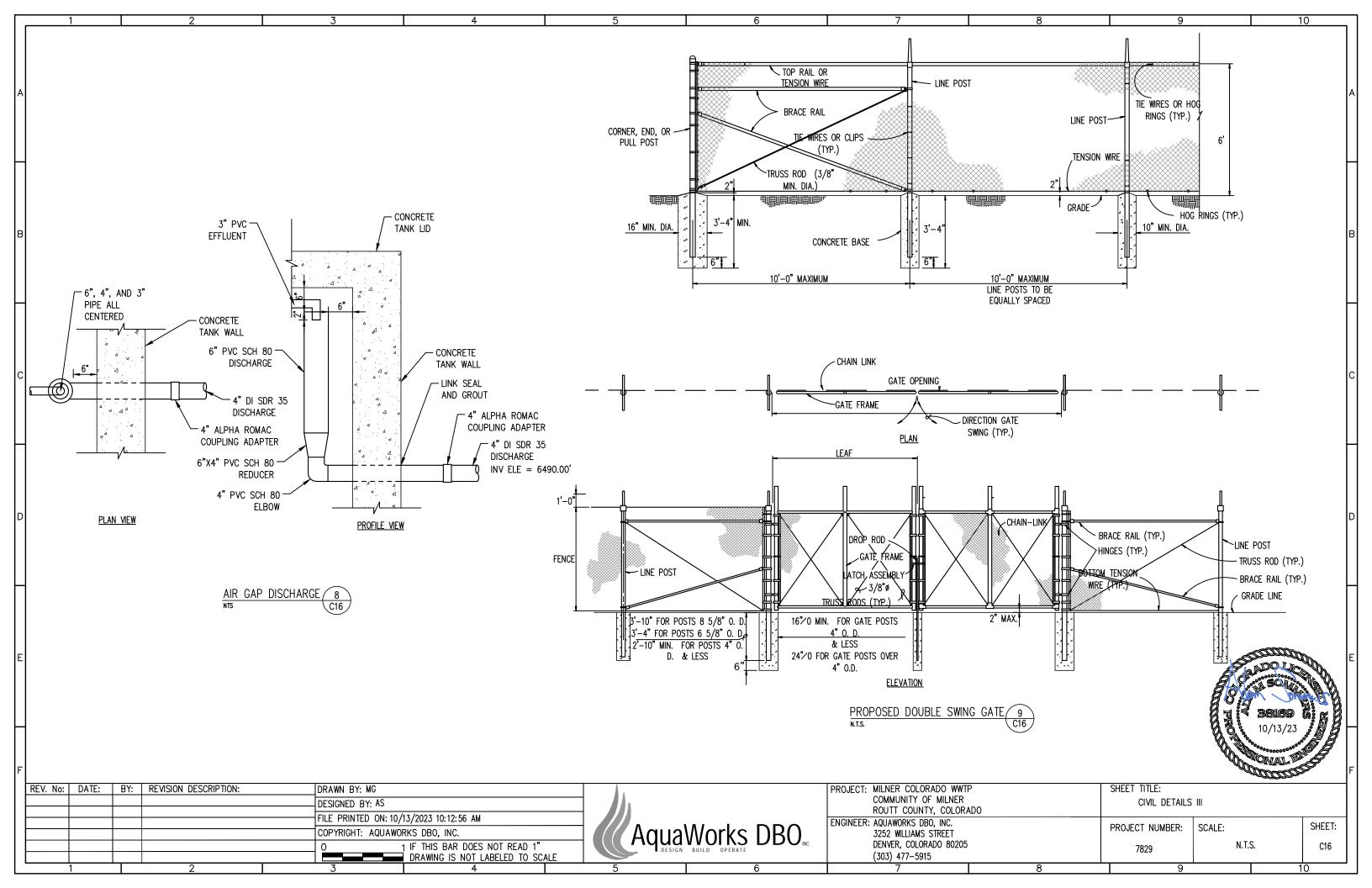


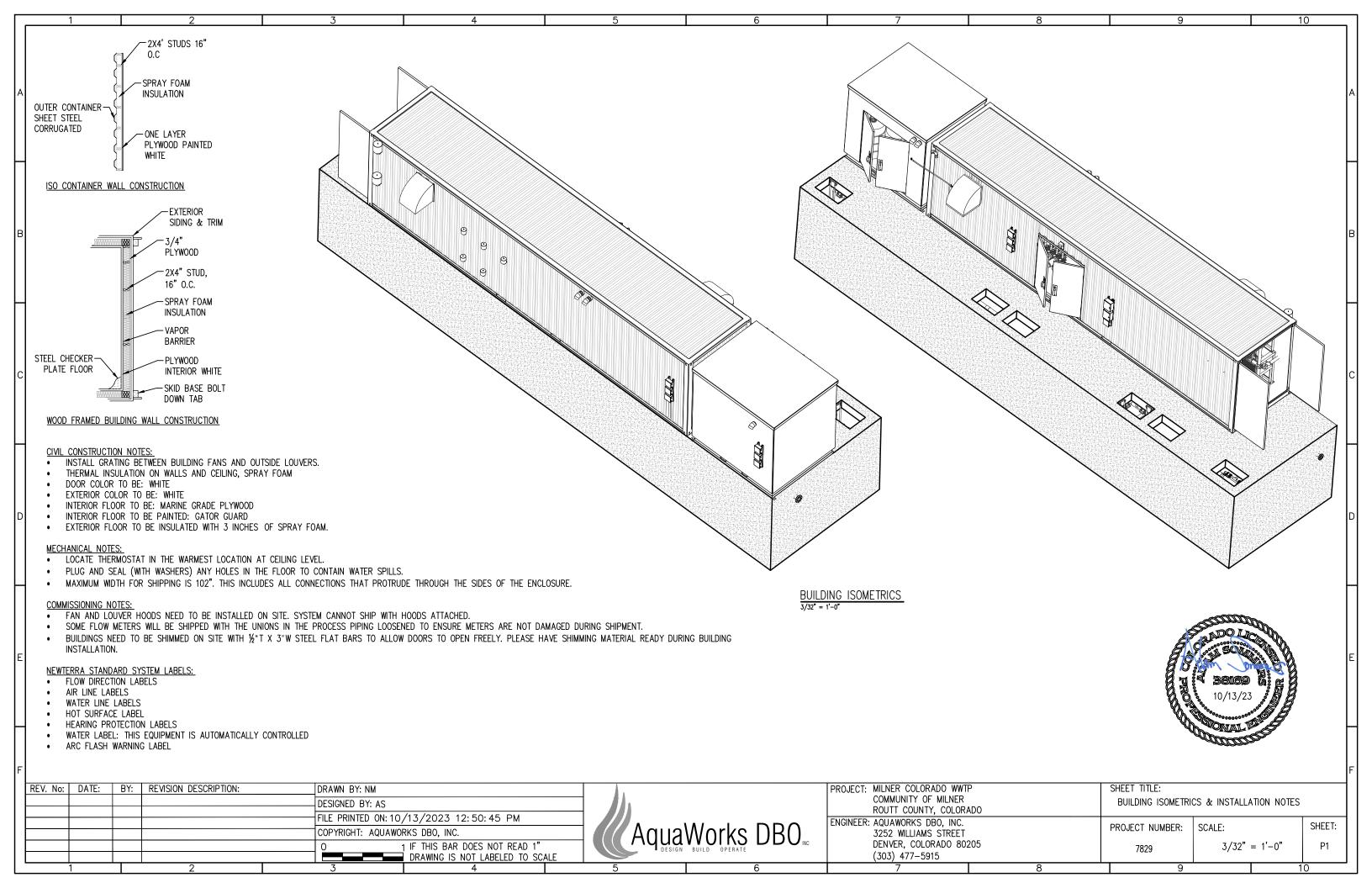


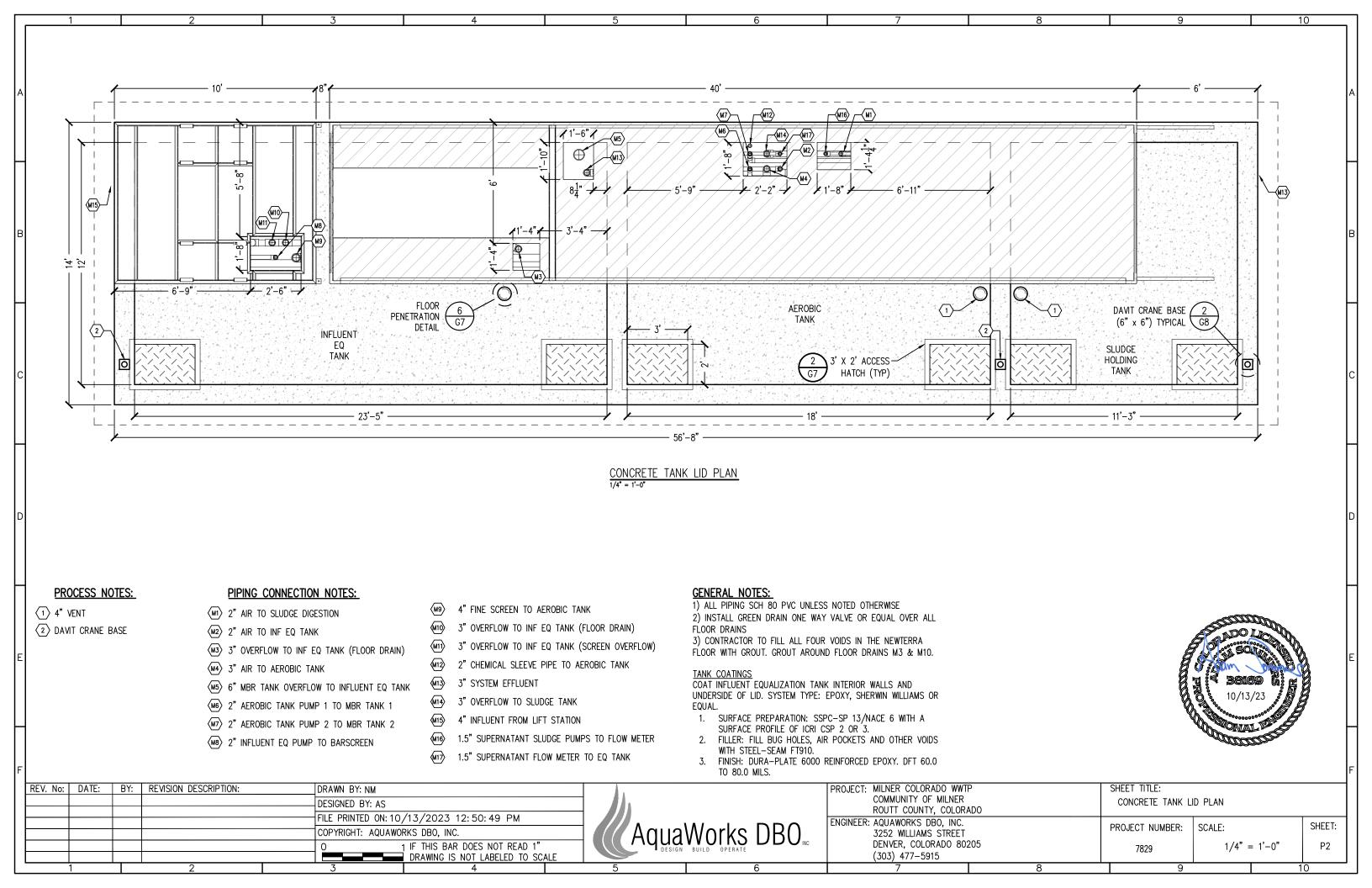


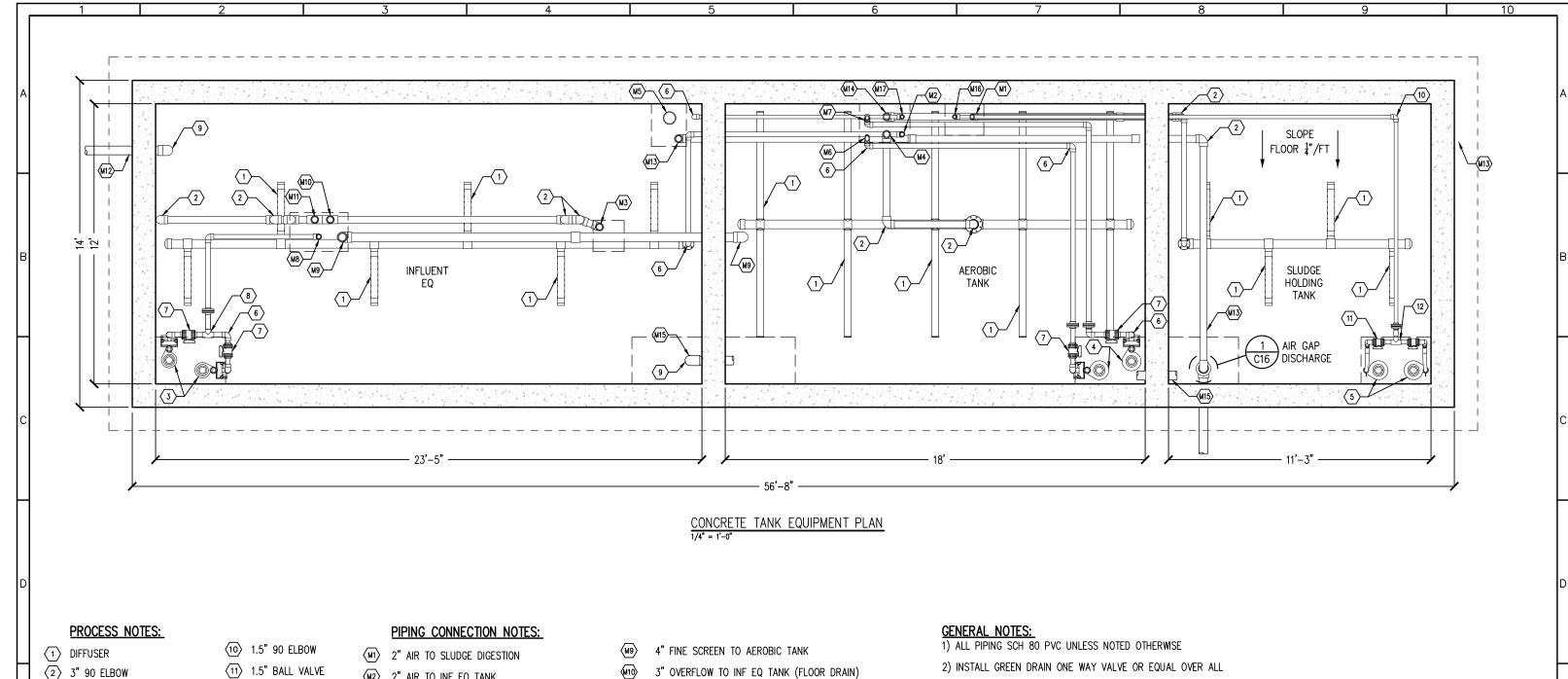












- (2) 3" 90 ELBOW
- (3) INFLUENT EQ PUMPS
- 4 MBR FEED FORWARD PUMPS
- 5 SLUDGE SUPERNATANT PUMPS

(12) 1.5" TEE

- 6 2" 90 ELBOW
- 7 2" BALL VALVE
- (8) 2" TEE
- 9 4" 90 ELBOW

- (M2) 2" AIR TO INF EQ TANK
 - (M3) 3" OVERFLOW TO INF EQ TANK (FLOOR DRAIN)
 - M4 3" AIR TO AEROBIC TANK
 - M5 6" MBR TANK OVERFLOW TO INFLUENT EQ TANK
 - (M6) 2" AEROBIC TANK PUMP 1 TO MBR TANK 1
 - M7 2" AEROBIC TANK PUMP 2 TO MBR TANK 2
 - (M8) 2" INFLUENT EQ PUMP TO BARSCREEN

- 3" OVERFLOW TO INF EQ TANK (FLOOR DRAIN)
- 3" OVERFLOW TO INF EQ TANK (SCREEN OVERFLOW)
- 4" INFLUENT FROM LIFT STATION
- 3" SYSTEM EFFLUENT
- 3" OVERFLOW TO SLUDGE TANK
- 4" BASIN OVERFLOW
 - 1.5" SUPERNATANT SLUDGE PUMPS TO FLOW METER
- 1.5" SUPERNATANT FLOW METER TO EQ TANK

- 2) INSTALL GREEN DRAIN ONE WAY VALVE OR EQUAL OVER ALL FLOOR DRAINS
- 3) CONTRACTOR TO FILL ALL FOUR VOIDS IN THE NEWTERRA FLOOR WITH GROUT. GROUT AROUND FLOOR DRAINS M3 & M10.

TANK COATINGS

COAT INFLUENT EQUALIZATION TANK INTERIOR WALLS AND UNDERSIDE OF LID. SYSTEM TYPE: EPOXY, SHERWIN WILLIAMS OR EQUAL.

- 1. SURFACE PREPARATION: SSPC-SP 13/NACE 6 WITH A
- SURFACE PROFILE OF ICRI CSP 2 OR 3.
 FILLER: FILL BUG HOLES, AIR POCKETS AND OTHER VOIDS WITH STEEL-SEAM FT910.
- FINISH: DURA-PLATE 6000 REINFORCED EPOXY. DFT 60.0 TO 80.0 MILS.



REV. No: DATE:	BY: REVISION DESCRIPTION:	DRAWN BY: NM DESIGNED BY: AS	/47 /0007 40 F0 F0 F0 PM			ADO	SHEET TITLE: CONCRETE TANK E	EQUIPMENT		
		COPYRIGHT: AQUAWOR	/13/2023 12:50:52 PM RKS DBO, INC.	SunA //	Works DBO	ENGINEER: AQUAWORKS DBO, INC. 3252 WILLIAMS STREET		PROJECT NUMBER:	SCALE:	SHEET:
			IF THIS BAR DOES NOT READ 1" DRAWING IS NOT LABELED TO SCA	DESIGN	BUILD OPERATE	DENVER, COLORADO 802 (303) 477-5915	205	7829	1/4" = 1'-0"	P3
1	2	3	4	5	6	7	8	9		10

