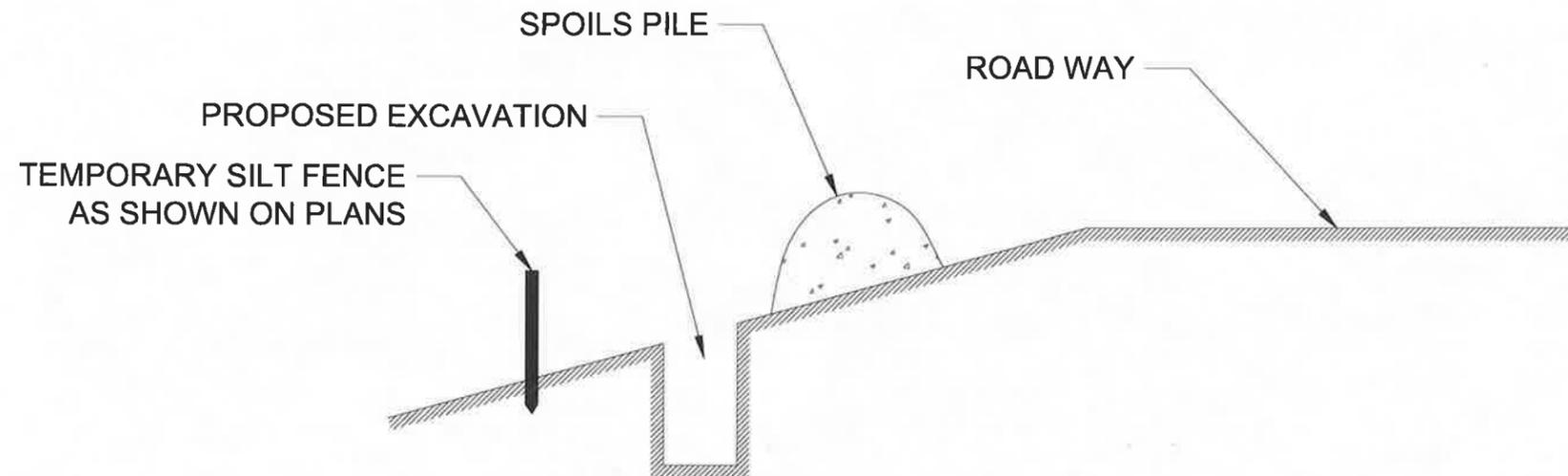


P:\Projects\Bids\18-103-Centralized Treatment Raw Waterline Detail.dwg - 8/11/2018 2:54 PM
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BID SET - NOT FOR CONSTRUCTION

DRAWN: E. WOODWARD DESIGNED: E. WOODWARD APPROVED: M. WARSZAK QA: DA BY		ATTENTION LINE IS 2 INCHES AT FULL SIZE (IF NOT, SCALE ACCORDINGLY)	STRATMOOR HILLS WATER DISTRICT	FORSGREN <i>Associates Inc.</i> <small>56 EVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112 PH: 726.232.6644</small>	PROJECT NO: 04-18-0103 SHEET NO: D-02 DATE: AUG. 2020 PAGE NO: 9 OF 9	
NO. REVISIONS BY DATE					CENTRALIZED TREATMENT RAW WATERLINE GENERAL DETAILS 2	



**NOTE: SILT FENCE TO BE
REMOVED AFTER VEGETATION
HAS BEEN RE-ESTABLISHED**

TYPICAL EROSION CONTROL
(Not to scale)



*Job: Stratmoore Hills Raw Water Line
Client: Stratmoore Hills
Project Location: US Hwy 85 & Glenarm Drive*

Drawn By: NMM

Sheet Number:

C-101

STRATMOOR HILLS WATER DISTRICT

CENTRALIZED TREATMENT RAW WATERLINE EL PASO COUNTY, COLORADO

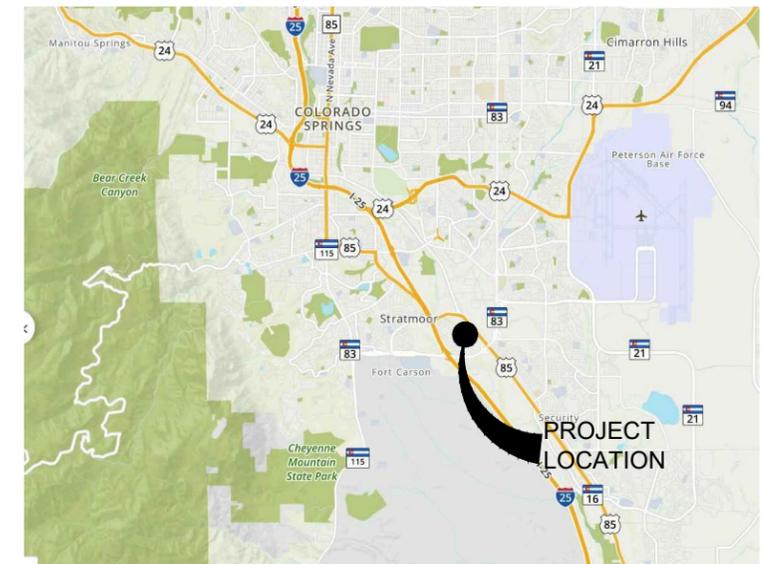
FA PROJECT NO. 04-18-0103
AUGUST, 2020

DRAWING INDEX

PAGE NO.	SHEET NO.	DRAWING NAME
1	G-01	COVER SHEET
2	G-02	GENERAL NOTES AND LEGEND
3	C-01	RAW WATERLINE - PLAN AND PROFILE STA 0+00 TO STA 6+00
4	C-02	RAW WATERLINE - PLAN AND PROFILE STA 6+00 TO STA 12+00
5	C-03	RAW WATERLINE - PLAN AND PROFILE STA 12+00 TO STA 18+00
6	C-04	RAW WATERLINE - PLAN AND PROFILE STA 18+00 TO STA 24+00
7	C-05	RAW WATERLINE - PLAN AND PROFILE STA 24+00 TO STA 28+00
8	D-01	GENERAL DETAILS 1
9	D-02	GENERAL DETAILS 2



PROJECT LOCATION MAP
N.T.S.



VICINITY MAP
N.T.S.



P:\Clients\Stratmoor Hills WSDs\04-18-0103 - Centralized Treatment\CAD\SHEETS\GENERAL11 - G-01 - COVER SHEET.dwg - SCALE - 8/13/2020 2:34 PM

CALL UTILITY NOTIFICATION
CENTER OF COLORADO
1-800-922-1987
CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.



THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES.

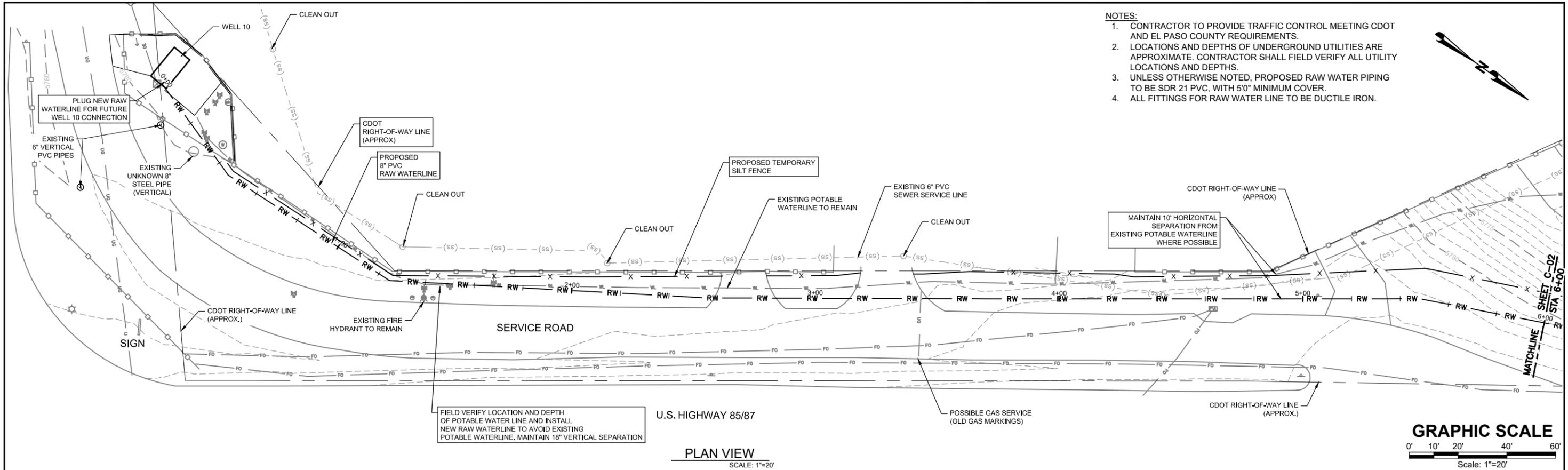
FORSGREN
Associates, Inc.

56 Inverness Drive East, Ste. 112, Englewood, CO 80112
PH: 720.214.5884

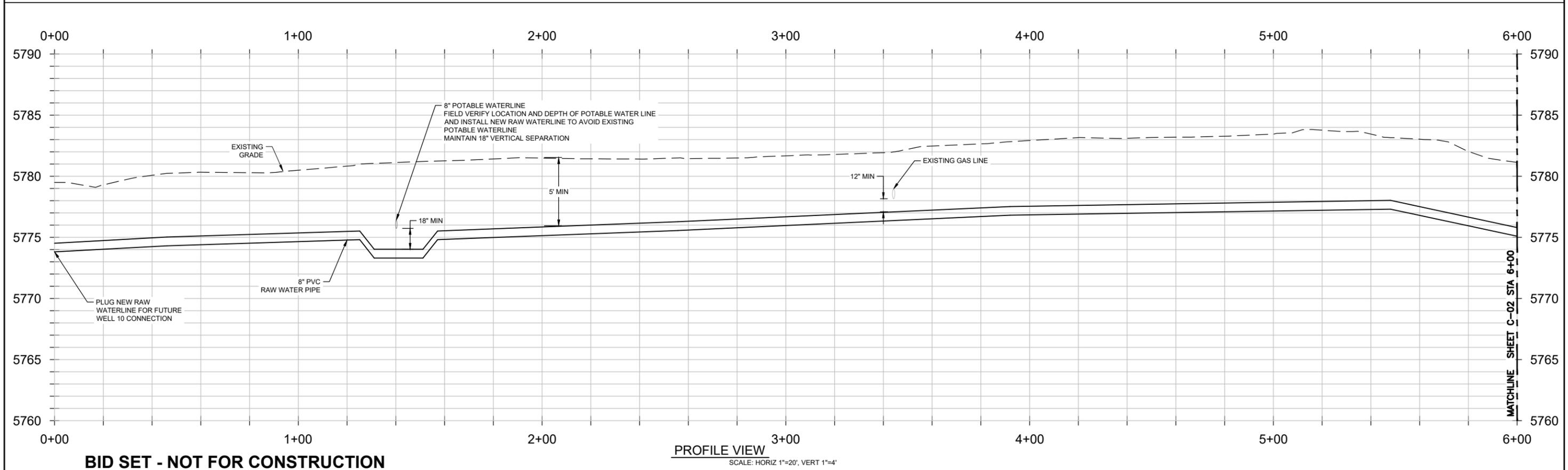
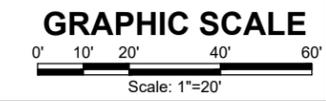
OWNER INFO:
STRATMOOR HILLS WATER DISTRICT
1811 B STREET
COLORADO SPRINGS, CO 80906
(719)-578-0311

ENGINEER:
FORSGREN ASSOCIATES, INC.
56 INVERNESS DRIVE EAST, STE 112
ENGLEWOOD, CO 80112
(720)-214-5884

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- NOTES:**
1. CONTRACTOR TO PROVIDE TRAFFIC CONTROL MEETING CDOT AND EL PASO COUNTY REQUIREMENTS.
 2. LOCATIONS AND DEPTHS OF UNDERGROUND UTILITIES ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL UTILITY LOCATIONS AND DEPTHS.
 3. UNLESS OTHERWISE NOTED, PROPOSED RAW WATER PIPING TO BE SDR 21 PVC, WITH 5'0" MINIMUM COVER.
 4. ALL FITTINGS FOR RAW WATER LINE TO BE DUCTILE IRON.



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NO.	REVISIONS	BY	DATE

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ATTENTION
LINE IS 2 INCHES
AT FULL SIZE
(IF NOT 2" SCALE ACCORDINGLY)

DRAWN E. WOODWARD
DESIGNED E. WOODWARD
APPROVED M. WARESAK
QA QA BY

**STRATMOOR HILLS
WATER DISTRICT**

**FORSGREN
Associates Inc.**
56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112
PH: 720.232.6644

CENTRALIZED TREATMENT RAW WATERLINE

PLAN AND PROFILE 1 OF 5
STA 0+00 TO STA 6+00

PROJECT NO:
04-18-0103

SHEET NO:
C-01

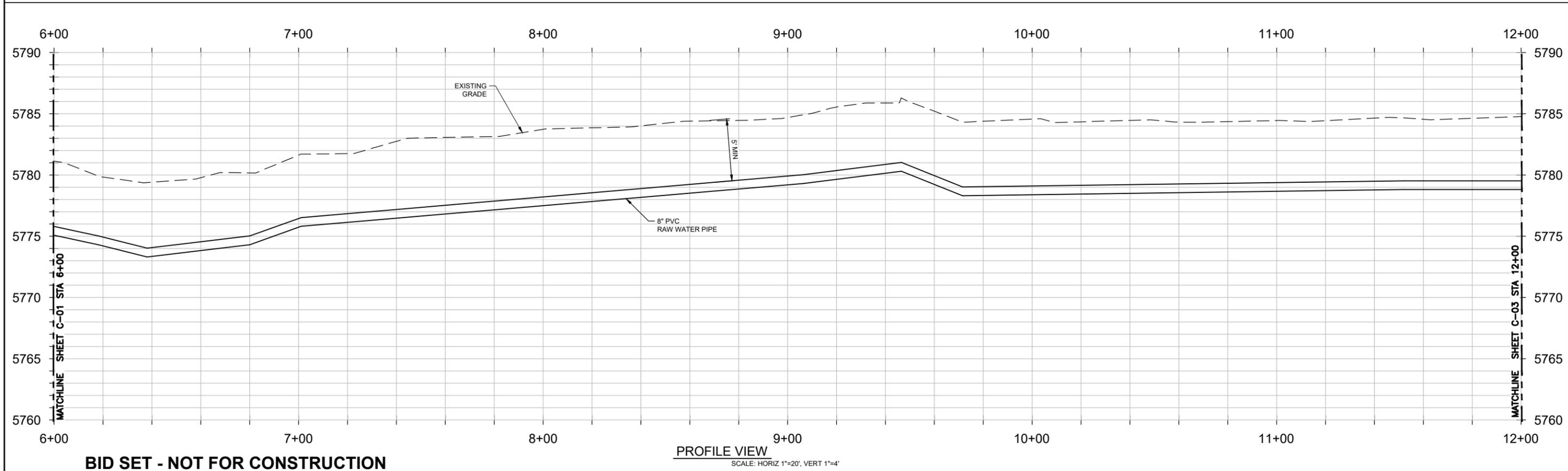
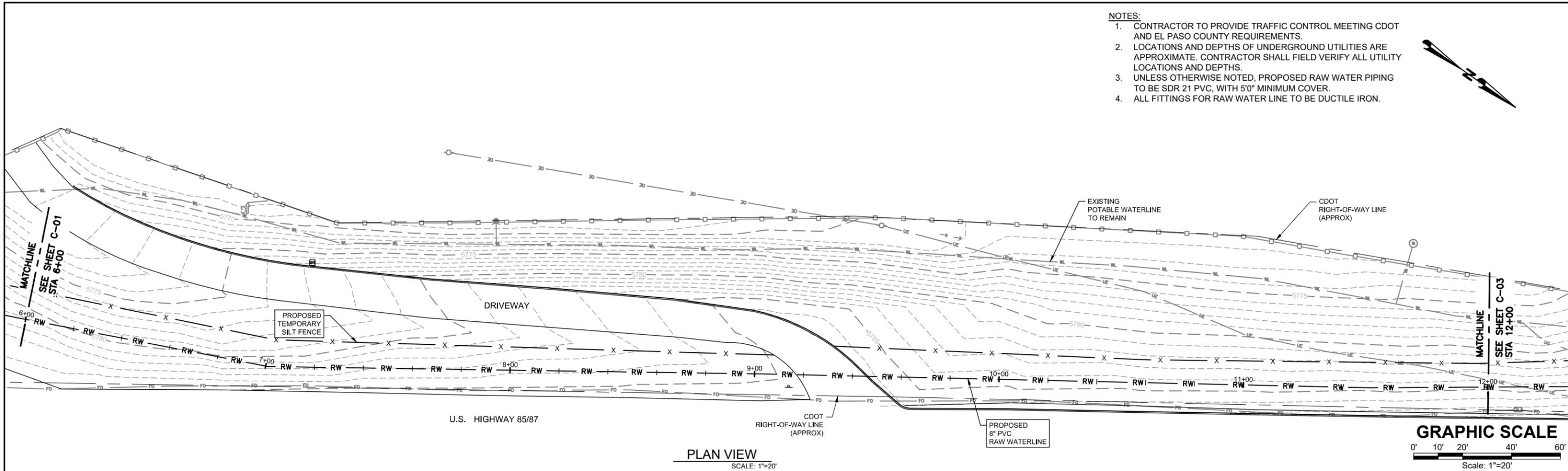
DATE:
AUG, 2020

PAGE NO:
3 OF 9

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NOTES:

1. CONTRACTOR TO PROVIDE TRAFFIC CONTROL MEETING CDOT AND EL PASO COUNTY REQUIREMENTS.
2. LOCATIONS AND DEPTHS OF UNDERGROUND UTILITIES ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL UTILITY LOCATIONS AND DEPTHS.
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4. ALL FITTINGS FOR RAW WATER LINE TO BE DUCTILE IRON.



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PROFILE VIEW
SCALE: HORIZ 1"=20', VERT 1"=4'

NO.	REVISIONS	BY	DATE

DRAWN	E. WOODWARD
DESIGNED	E. WOODWARD
APPROVED	M. WARESAK
QA	QA BY

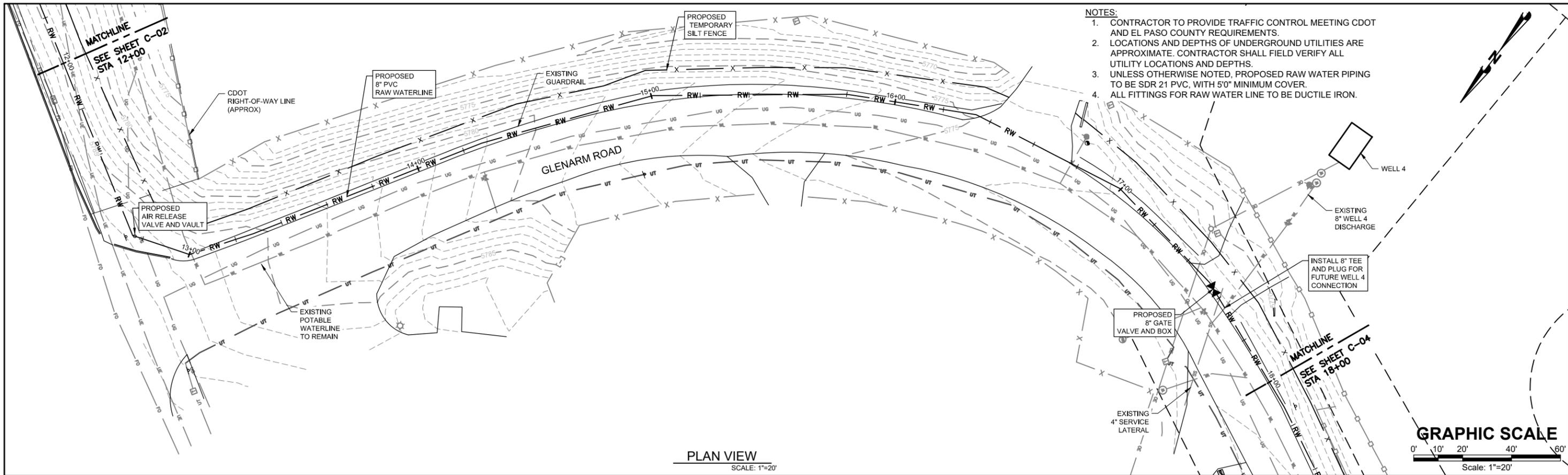
ATTENTION
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**STRATMOOR HILLS
WATER DISTRICT**

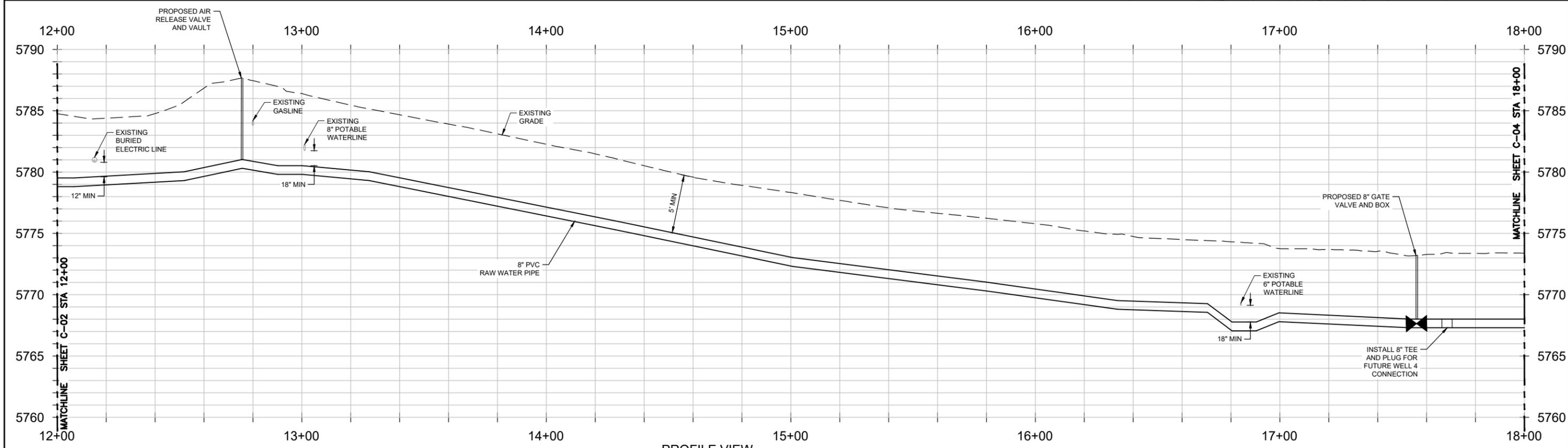
FORSGREN
Associates Inc.
56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112
PH: 720.232.6644

CENTRALIZED TREATMENT RAW WATERLINE
PLAN AND PROFILE 2 OF 5
STA 6+00 TO STA 12+00

PROJECT NO:	04-18-0103
SHEET NO:	C-02
DATE:	AUG, 2020
PAGE NO:	4 OF 9



- NOTES:**
1. CONTRACTOR TO PROVIDE TRAFFIC CONTROL MEETING CDOT AND EL PASO COUNTY REQUIREMENTS.
 2. LOCATIONS AND DEPTHS OF UNDERGROUND UTILITIES ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL UTILITY LOCATIONS AND DEPTHS.
 3. UNLESS OTHERWISE NOTED, PROPOSED RAW WATER PIPING TO BE SDR 21 PVC, WITH 5'0" MINIMUM COVER.
 4. ALL FITTINGS FOR RAW WATER LINE TO BE DUCTILE IRON.



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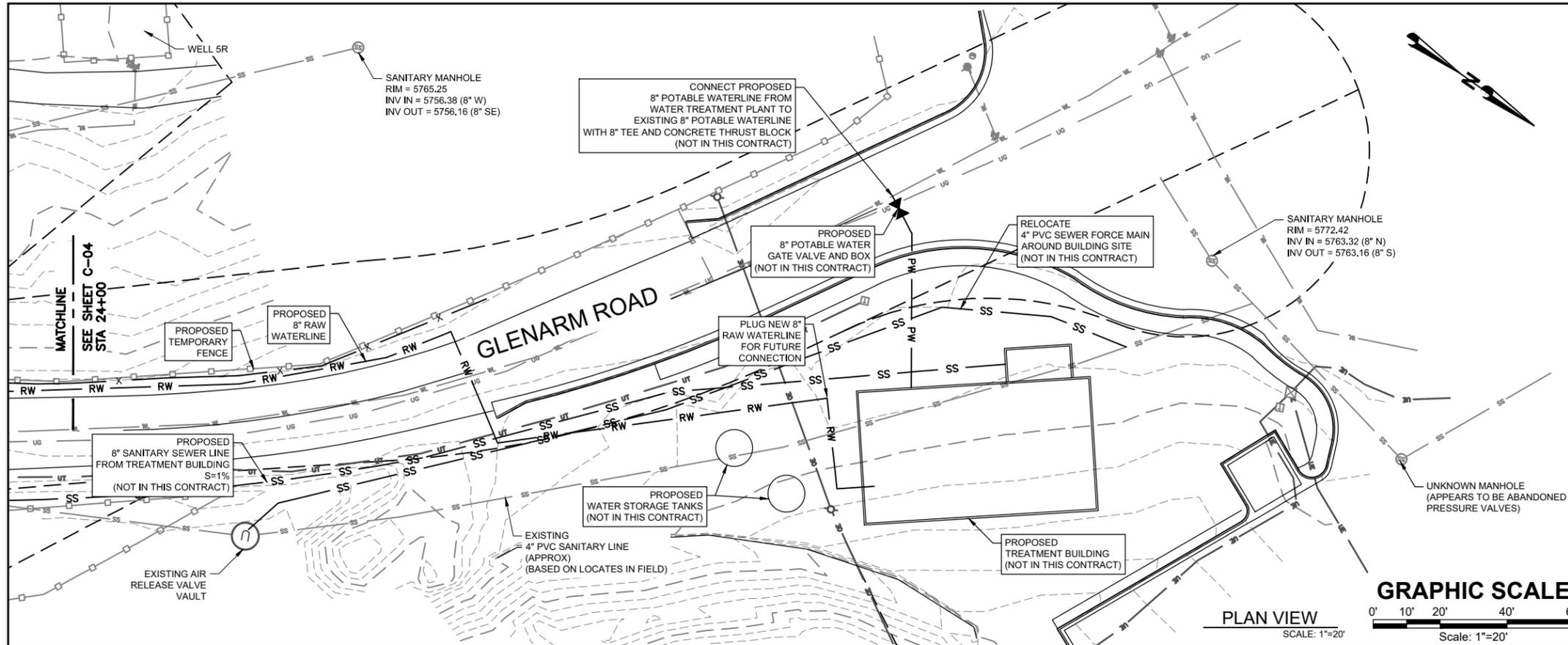
**STRATMOOR HILLS
WATER DISTRICT**

FORSGREN
Associates Inc.
56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112
PH: 720.232.6644

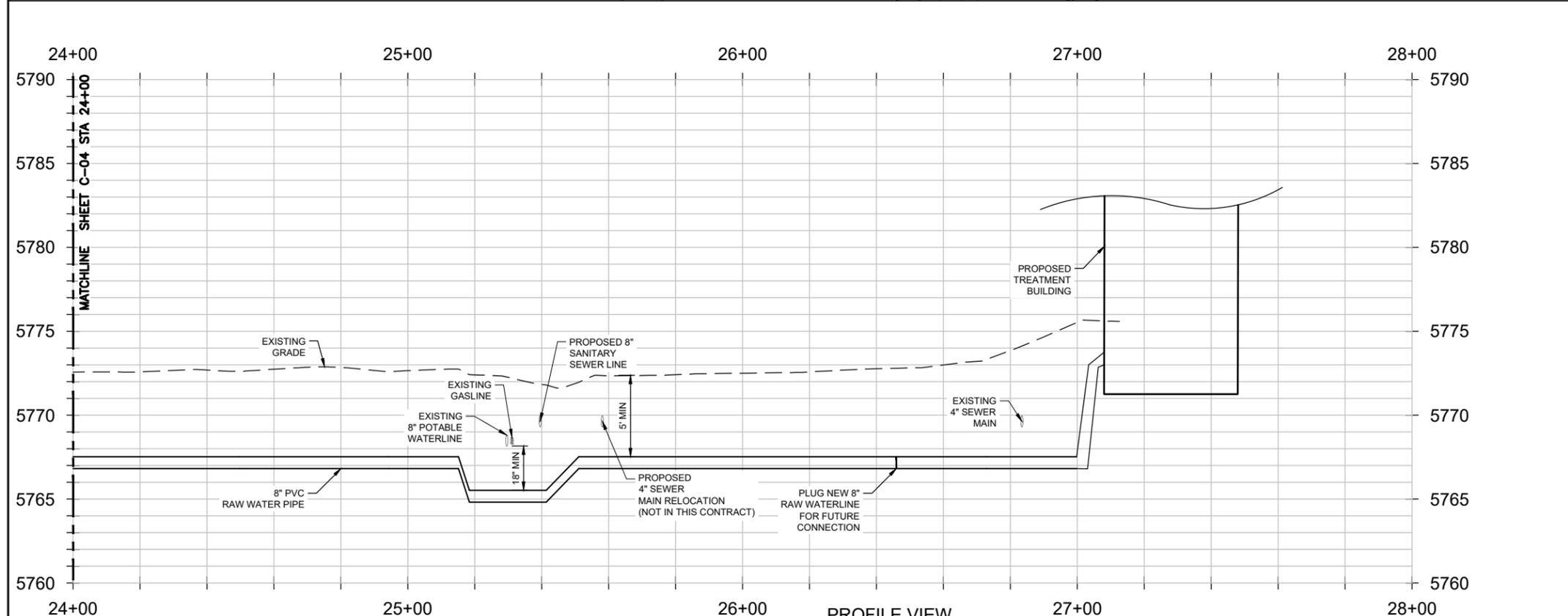
CENTRALIZED TREATMENT RAW WATERLINE
PLAN AND PROFILE 3 OF 5
STA 12+00 TO STA 18+00

PROJECT NO: 04-18-0103	PAGE NO: 5 OF 9
SHEET NO: C-03	DATE: AUG, 2020

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- NOTES:**
1. CONTRACTOR TO PROVIDE TRAFFIC CONTROL MEETING CDOT AND EL PASO COUNTY REQUIREMENTS.
 2. LOCATIONS AND DEPTHS OF UNDERGROUND UTILITIES ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL UTILITY LOCATIONS AND DEPTHS.
 3. UNLESS OTHERWISE NOTED, PROPOSED RAW WATER PIPING TO BE SDR 21 PVC, WITH 5'0" MINIMUM COVER.
 4. ALL FITTINGS FOR RAW WATER LINE TO BE DUCTILE IRON.
 5. CONTRACTOR SHALL COORDINATE WORK WITH TREATMENT BUILDING CONTRACTOR AS NECESSARY TO COORDINATE SCHEDULES AND PIPE CONNECTIONS, AND TO AVOID CONSTRUCTION CONFLICTS.



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 DESIGNED E. WOODWARD
 APPROVED M. WARESAK
 QA QA BY

ATTENTION
 LINE IS 2 INCHES
 AT FULL SIZE
 (IF NOT 2" SCALE ACCORDINGLY)

**STRATMOOR HILLS
 WATER DISTRICT**

FORSGREN
Associates Inc.
 56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112
 PH: 720.232.6644

CENTRALIZED TREATMENT RAW WATERLINE

PLAN AND PROFILE 5 OF 5
STA 24+00 TO STA 28+00

PROJECT NO:
04-18-0103

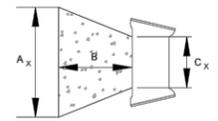
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C-05

DATE: AUG, 2020 PAGE NO:
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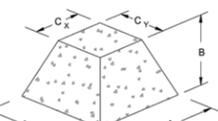
THRUST BLOCK DIMENSIONS and VOLUMES - PVC & DIP 250 psi

MAIN SIZE (IN.)	TYPE OF FITTING	MINIMUM BEARING SURFACE AREA (SQ. FT.)	MINIMUM A ₁ (IN.)	MINIMUM A ₂ (IN.)	MINIMUM C ₁ (IN.)	MINIMUM C ₂ (IN.)	MINIMUM B (IN.)	APPROXIMATE VOLUME (CU YD)
4	11.25" BEND	1.00	1.00	1.00	0.25	0.33	2.00	0.25
4	22.5" BEND	2.00	1.41	1.41	0.21	0.33	2.00	0.25
4	45" BEND	3.00	1.87	1.87	0.42	0.33	2.00	0.25
4	TEE & DEAD END	4.75	2.18	2.18	0.67	0.33	2.00	0.25
6	11.25" BEND	2.00	1.41	1.41	0.25	0.50	2.00	0.25
6	22.5" BEND	3.75	1.94	1.94	0.38	0.50	2.00	0.25
6	45" BEND	7.25	2.69	2.69	0.56	0.50	2.00	0.25
6	TEE & DEAD END	9.50	3.08	3.08	0.83	0.50	2.00	0.50
8	11.25" BEND	3.25	1.80	1.80	0.34	0.67	2.00	0.25
8	22.5" BEND	6.50	2.55	2.55	0.48	0.67	2.00	0.25
8	45" BEND	12.50	3.67	3.67	0.67	0.67	2.00	0.50
8	TEE & DEAD END	16.25	4.64	4.64	1.08	0.67	2.00	0.75



THRUST BLOCK DIMENSIONS and VOLUMES - PVC (Maximum Static Pressure = 170 psi)

MAIN SIZE (IN.)	TYPE OF FITTING	MINIMUM BEARING SURFACE AREA (SQ. FT.)	MINIMUM A ₁ (IN.)	MINIMUM A ₂ (IN.)	MINIMUM C ₁ (IN.)	MINIMUM C ₂ (IN.)	MINIMUM B (IN.)	APPROXIMATE VOLUME (CU YD)
12	11.25" BEND	4.75	2.18	2.18	0.43	1.00	2.00	0.25
12	22.5" BEND	6.25	3.04	3.04	0.64	1.00	2.00	0.50
12	45" BEND	18.00	4.92	4.96	1.00	1.00	2.00	0.75
12	TEE & DEAD END	23.50	6.42	6.66	1.48	1.00	2.48	1.00
16	11.25" BEND	6.00	2.83	2.83	0.44	1.33	2.00	0.50
16	22.5" BEND	16.00	4.27	4.27	0.66	1.33	2.00	0.75
16	45" BEND	31.00	6.27	6.27	1.00	1.33	3.84	1.75
16	TEE & DEAD END	40.50	10.80	10.80	1.92	1.33	4.44	3.00



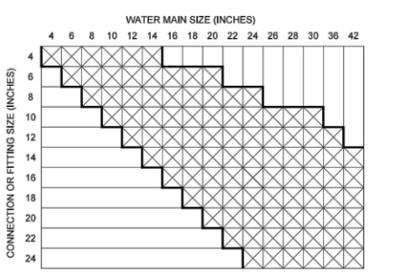
THRUST BLOCK DIMENSIONS and VOLUMES - DIP (Maximum Static Pressure = 250 psi)

MAIN SIZE (IN.)	TYPE OF FITTING	MINIMUM BEARING SURFACE AREA (SQ. FT.)	MINIMUM A ₁ (IN.)	MINIMUM A ₂ (IN.)	MINIMUM C ₁ (IN.)	MINIMUM C ₂ (IN.)	MINIMUM B (IN.)	APPROXIMATE VOLUME (CU YD)
12	11.25" BEND	6.75	2.80	2.80	0.43	1.00	2.00	0.50
12	22.5" BEND	13.50	3.68	3.68	0.64	1.00	2.00	0.50
12	45" BEND	26.25	7.17	7.17	1.00	1.00	3.08	1.50
12	TEE & DEAD END	34.25	9.36	9.66	1.46	1.00	3.96	2.25
16	11.25" BEND	11.75	3.43	3.43	0.44	1.33	2.00	0.50
16	22.5" BEND	23.25	6.20	6.20	0.66	1.33	2.77	1.00
16	45" BEND	45.50	12.13	12.13	1.00	1.33	5.67	4.00
16	TEE & DEAD END	58.50	15.87	15.87	1.92	1.33	6.98	6.50

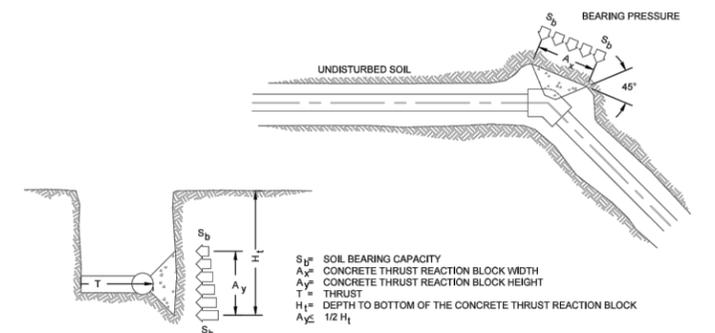
- NOTES:
- THE MINIMUM BEARING SURFACE AREAS SHOWN ARE BASED ON A MAX STATIC PIPE PRESSURE OF 170/250 POUNDS PER SQUARE INCH PLUS A SAFETY FACTOR OF 1.5 AND AN ALLOWABLE SOIL BEARING CAPACITY OF 1500 POUNDS PER SQUARE FOOT. BEARING SURFACE AREA IS ROUNDED UP TO THE NEAREST 0.25 SQUARE FEET. REFERENCE AWWA M-29 AND M-41.
 - THE DESIGN ENGINEER IS RESPONSIBLE FOR VERIFYING ASSUMPTIONS BASED ON ACTUAL SITE CONDITIONS. IF SITE CONDITIONS VARY FROM THE ASSUMPTIONS THE DESIGN ENGINEER SHALL PROVIDE A SITE SPECIFIC DESIGN IN ACCORDANCE WITH AWWA M-29, PVC PIPE - DESIGN AND INSTALLATION AND AWWA M-41, DUCTILE-IRON PIPE AND FITTINGS. SITE SPECIFIC DESIGNS INCLUDING GEOTECHNICAL INFORMATION SHALL BE SUBMITTED TO COLORADO SPRINGS UTILITIES FOR REVIEW.
 - THE MINIMUM BEARING SURFACE AREA AND APPROXIMATE VOLUME OF CONCRETE SHALL BE SHOWN ON THE CONSTRUCTION PLANS FOR ALL CONCRETE THRUST BLOCKS. CONCRETE MIX SHALL BE PER MATERIAL CHAPTER 4.
 - THE APPROXIMATE VOLUMES SHOWN ARE BASED ON THE MINIMUM BEARING SURFACE AREA AND THE MINIMUM TRENCH DIMENSIONS. THE APPROXIMATE VOLUME IS ROUNDED UP TO THE NEAREST 0.25 CUBIC YARDS.
 - THESE CHARTS MAY ONLY BE USED IF THE BLOCK HEIGHT (A₁) IS EQUAL TO OR LESS THAN ONE HALF THE TOTAL DEPTH (H) FROM THE FINISHED GRADE TO THE BOTTOM OF THE BLOCK. THE MINIMUM DIMENSIONS SHOWN ARE BASED ON A PIPE DEPTH OF 5 FEET. SEE DETAIL DRAWING A4-3.
 - A SITE SPECIFIC DESIGN SHALL BE REQUIRED FOR PIPES LARGER THAN 18 INCHES OR MAX STATIC PIPE PRESSURES GREATER THAN 250 POUNDS PER SQUARE INCH. THE DESIGN ENGINEER HAS THE OPTION OF PROVIDING A SITE SPECIFIC DESIGN FOR PIPES SMALLER THAN 18 INCHES OR MAX STATIC PRESSURES LESS THAN 250 POUNDS PER SQUARE INCH.
 - ALL CALCULATIONS SHALL BE PROVIDED TO COLORADO SPRINGS UTILITIES FOR REVIEW.

Colorado Springs Utilities
CONCRETE THRUST REACTION BLOCKS
 A4-2
 DATED 03/2014

CONCRETE THRUST REACTION BLOCK REQUIREMENTS FOR TEES OR TAPS



INDICATES THAT A CONCRETE THRUST REACTION BLOCK IS REQUIRED

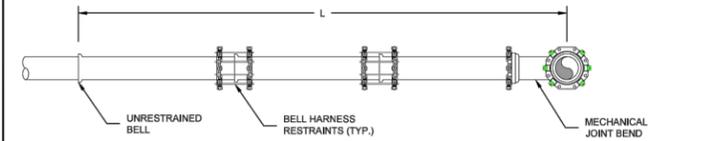


- NOTES:
- A SITE SPECIFIC DESIGN SHALL BE REQUIRED FOR CONNECTIONS OR FITTING SIZE COMBINATIONS NOT SHOWN ABOVE.
 - THE CONCRETE THRUST REACTION BLOCK SHALL BEAR AGAINST UNDISTURBED SOIL.
 - THE CONCRETE THRUST REACTION BLOCK SHALL BE INSTALLED WITH A 45° ANGLE FROM THE FITTING TO THE UNDISTURBED SOIL AS SHOWN IN THE DRAWING ABOVE.
 - REFER TO DETAIL DRAWING A4-2 FOR STANDARD CONCRETE THRUST REACTION BLOCK DIMENSIONS AND VOLUMES.
 - DUCTILE IRON FITTINGS AND PIPE SHALL BE WRAPPED IN POLYETHYLENE TUBING WHERE ADJACENT TO CONCRETE.

Colorado Springs Utilities
CONCRETE THRUST REACTION BLOCKS
 A4-3
 DATED 03/2014

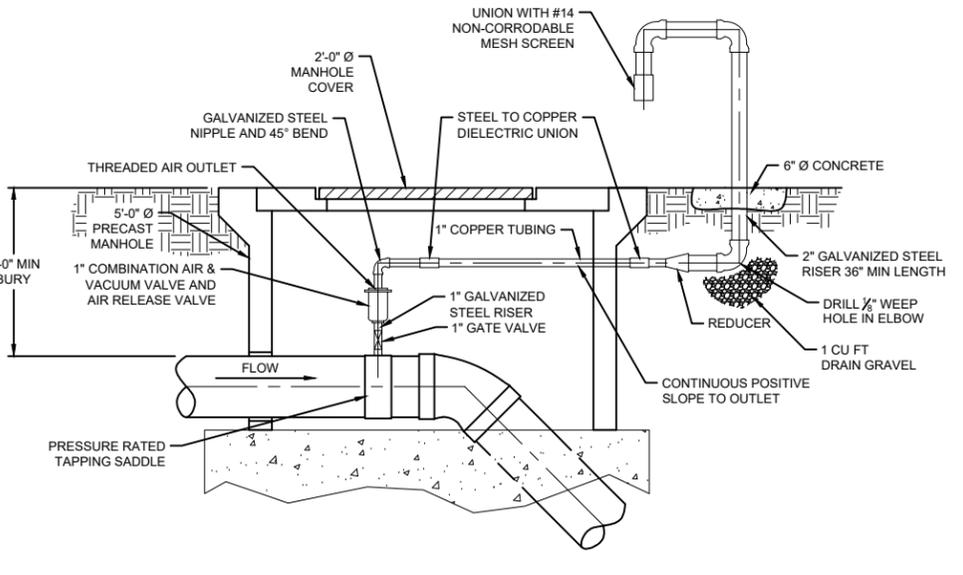
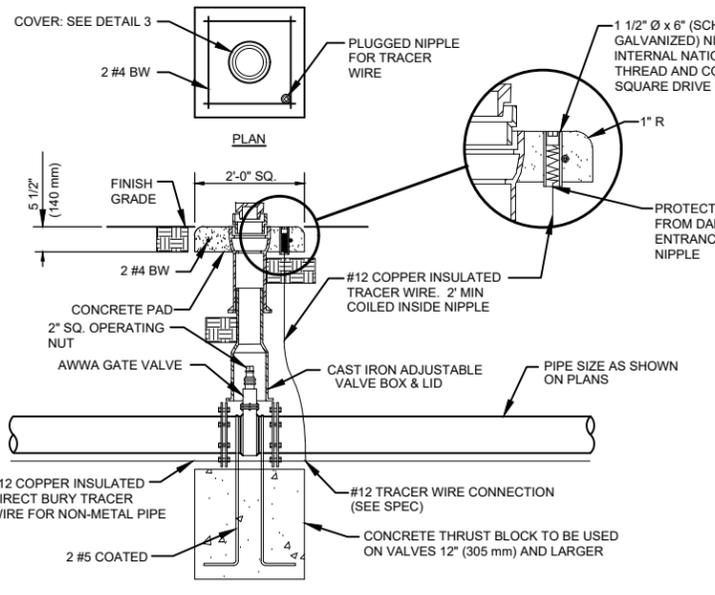
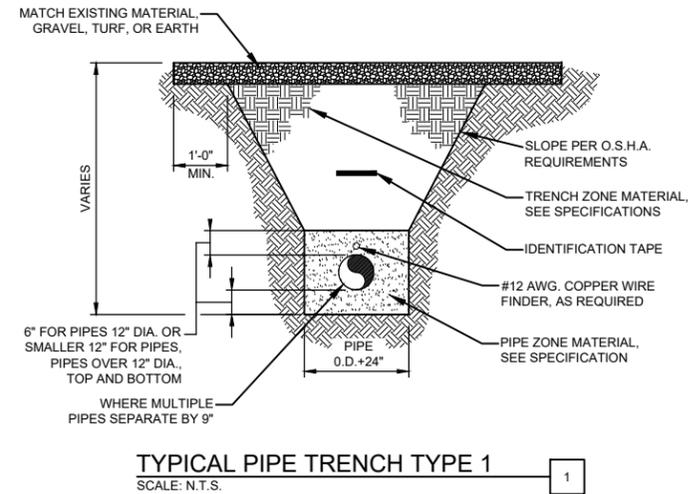
L = MINIMUM RESTRAINED PIPE LENGTH (FEET)

PIPE DIAMETER	45° BEND			22-1/2° BEND			11-1/4° BEND			DEAD END VALVE OR PLUG, TO INCLUDE BALL VALVES (SEE NOTE 9)		
	<100	100-150	150-200	<100	100-150	150-200	<100	100-150	150-200			
8 INCH	6	9	12	3	5	6	2	3	3	49	73	97
8 INCH	8	12	16	4	6	8	2	3	4	63	94	125
12 INCH	12	17	23	6	8	11	3	4	6	89	133	177
16 INCH	15	22	29	7	11	14	4	5	7			
20 INCH	18	26	35	9	13	17	4	6	8			
24 INCH	20	30	40	10	15	20	5	7	10			
30 INCH	24	36	48	12	18	24	6	9	12			
36 INCH	28	42	56	14	20	27	7	10	14			



- NOTES:
- PRESSURE GREATER THAN 200 PSI REQUIRE SPECIAL DESIGN APPROVED BY SPRINGS UTILITIES. APPROVED BY COLORADO SPRINGS UTILITIES.
 - LENGTH IS BASED ON MINIMUM 5 FEET OF GROUND COVER AND SOIL COMPACTED ACCORDING TO CHAPTER 5 OF THESE WATER LESS. IF THE DEPTH IS LESS THAN 5 FEET RESTRAINED LENGTH MUST BE DESIGNED BY THE DESIGN ENGINEER.
 - APPROVED METHODS OF RESTRAINED PIPE BEYOND INITIAL FITTING SHALL BE IN ACCORDANCE WITH CHAPTER 4.
 - RESTRAINED PIPE LENGTH APPLIES TO CONDITIONS WHERE NO CONCRETE THRUST REACTION BLOCK IS PRESENT.
 - CALCULATIONS ARE BASED ON A POORLY GRADED SANDS, GRAVEL AND GRAVEL-SAND MIXTURE, LITTLE OR NO FINES, TYPE 4 BEDDING CONDITIONS - PIPE BEDDED IN SAND, GRAVEL OR CRUSHED STONE TO A DEPTH OF 1/8 PIPE DIAMETER (4" MIN.) FACTOR OF SAFETY 2:1.
 - FIGURES ARE BASED ON DIP WRAPPED IN POLYETHYLENE MATERIAL.
 - MEASUREMENTS ARE IN FEET.
 - USE CRA FOR DOWN TURNING BENDS.
 - RESTRAINED LENGTH FOR DEAD END MAY BE USED AT THE DISCRETION OF COLORADO SPRINGS UTILITIES.

Colorado Springs Utilities
RESTRAINED PIPE LENGTH (FEET) W/MECHANICAL JOINT RESTRAINTS
 A4-4
 DATED 03/2014



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DRAWN	E. WOODWARD
DESIGNED	E. WOODWARD
APPROVED	M. WARESAK
QA	QA BY

ATTENTION
 LINE IS 2 INCHES
 AT FULL SIZE
 (IF NOT 2" SCALE ACCORDINGLY)

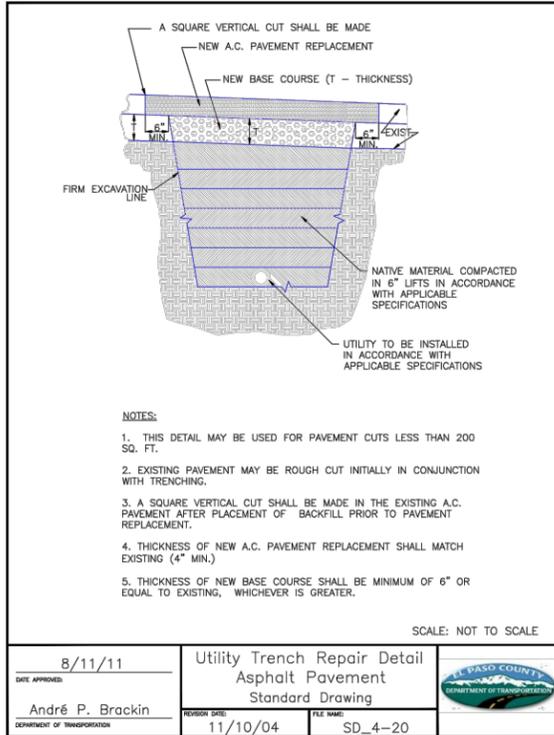
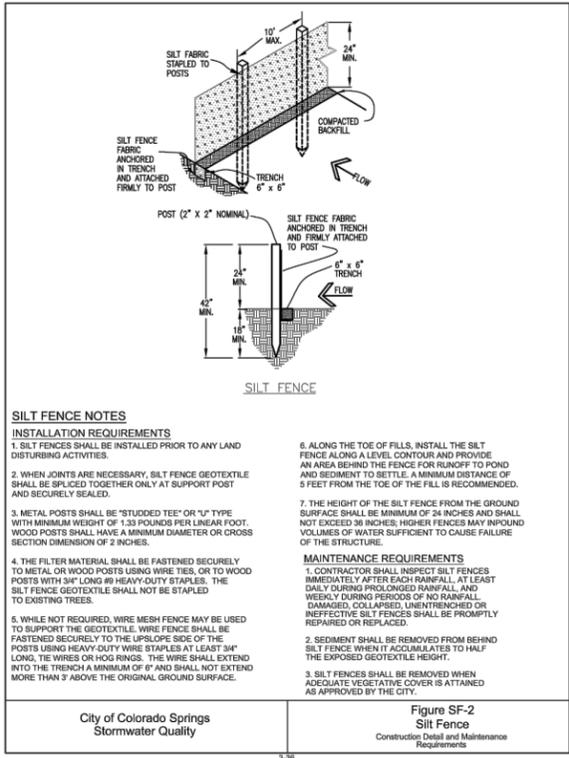
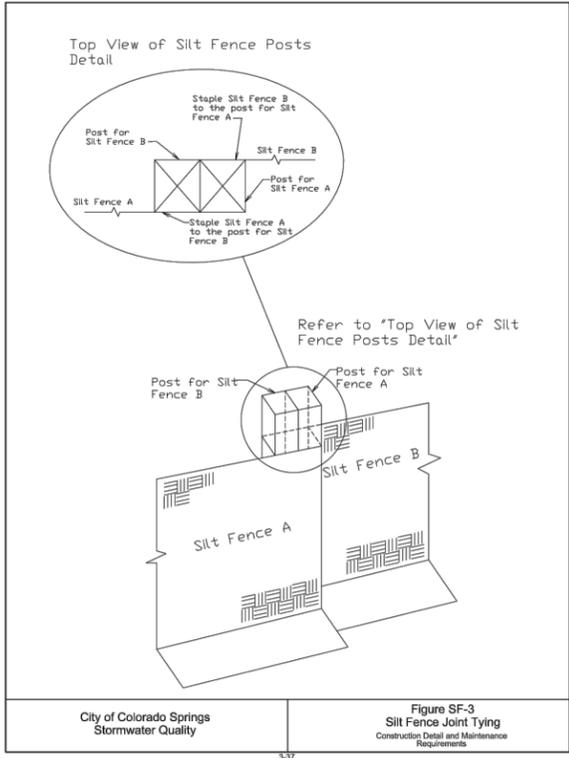
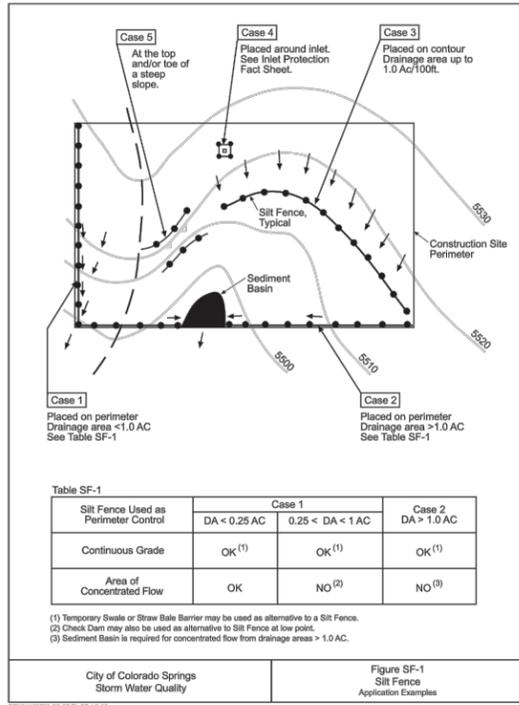
STRATMOOR HILLS WATER DISTRICT

FORSYGREN Associates Inc.
 56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112
 PH: 720.232.6644

CENTRALIZED TREATMENT RAW WATERLINE
GENERAL DETAILS 1

PROJECT NO:	04-18-0103
SHEET NO:	D-01
DATE:	AUG, 2020
PAGE NO:	8 OF 9

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P:\Clients\Stratmoor Hills WSDs\04-18-0103 - Centralized Treatment\CAD\SHETS\DETAILS\GENERAL DETAILS\D-02 DETAIL 2.dwg - - - - 8/12/2020 2:54 PM

BID SET - NOT FOR CONSTRUCTION

DRAWN <u>E. WOODWARD</u> DESIGNED <u>E. WOODWARD</u> APPROVED <u>M. WARESAK</u> QA <u>QA BY</u>	ATTENTION LINE IS 2 INCHES AT FULL SIZE (IF NOT 2" SCALE ACCORDINGLY)	STRATMOOR HILLS WATER DISTRICT	FORSGREN <i>Associates Inc.</i> 56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112 PH: 720.232.6644	CENTRALIZED TREATMENT RAW WATERLINE		PROJECT NO: 04-18-0103
				GENERAL DETAILS 2		SHEET NO: D-02
				DATE: AUG, 2020	PAGE NO: 9 OF 9	