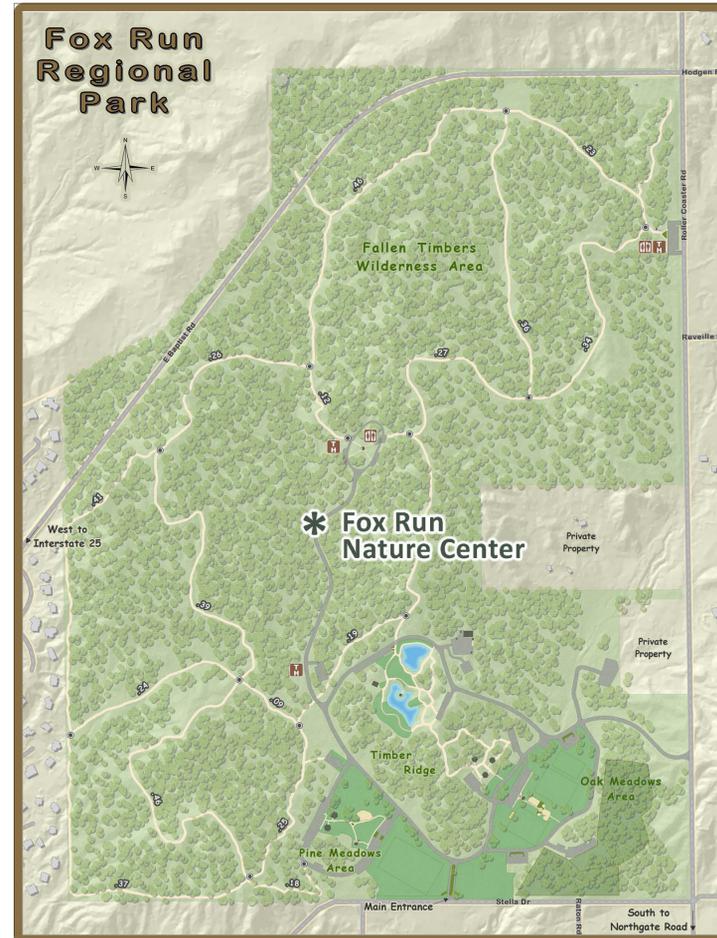


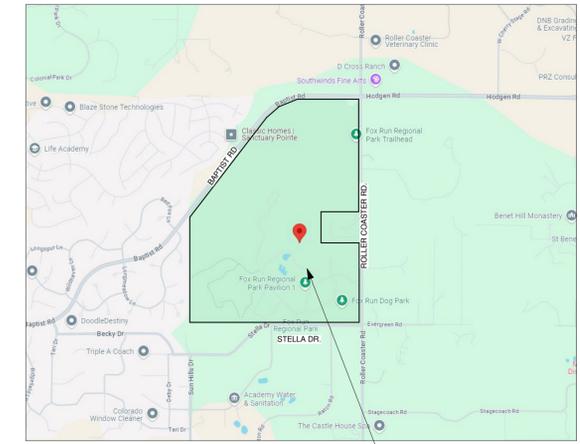
FOX RUN NATURE CENTER

FOX RUN REGIONAL PARK, EL PASO COUNTY, COLORADO



PARK MAP

SCALE: NTS



VICINITY MAP

SCALE: NTS



PROJECT DATA

OWNER:

EL PASO COUNTY
200 S CASCADE AVE STE 150
COLORADO SPRINGS CO, 80903
719-520-7529
JASON MEYER
TODD MARTS

APPLICANT:

BASELINE CORPORATION
1046 ELKTON DRIVE
COLORADO SPRINGS, CO 80907
719 531-6200
STEVE BAGGS

PROJECT ADDRESS:

2110 STELLA DR.
COLORADO SPRINGS, COLORADO
809021

TAX SCHEDULE NUMBER:

610000297

LEGAL DESCRIPTION:

NW4 & SW4, EX NE4SW4 OF SEC 28-11-66 E2SE4, S2SE4NE4, THAT PART OF N2SE4NE4 OF SEC 29 LY SELY OF A STRAIGHT LN CONNECTING SW4 AND NE COR OF SD N2 SEC 29-11-66

LOT SIZE:

389.5 ACRES

ZONING:

RR-5

PROJECT DESCRIPTION:

NEW SINGLE STORY, TWO BUILDING NATURE CENTER WITH A VIEWING TOWER AND CANOPY WALK. THE NON-COMBUSTIBLE CONSTRUCTION BUILDING WITH A MULTI-PURPOSE ROOM, EXHIBIT SPACE, OUTDOOR DECK, OFFICES, STORAGE AND RESTROOMS

TOTAL BUILDING AREA:

8,245 SQFT WITH A 4,565 SQFT OUTDOOR PATIO

NUMBER OF LEVELS:

1 STORY WITH CANOPY WALK AND VIEWING PLATFORM

BUILDING HEIGHT:

75'-0"

PARKING CALCULATIONS:

PARKING SPACES	39 SPACES
ACCESSIBLE PARKING SPACES	2 SPACES
TOTAL SPACES	41 SPACES
BUS PARKING	3 SPACES

CIVIL SHEET INDEX

- C1 EXISTING CONDITIONS & DEMO PLAN I
- C2 EXISTING CONDITIONS & DEMO PLAN II
- C3 SITE PLAN
- C4 STRIPING PLAN
- C5 DRIVEWAY & PARKING AREA GRADING PLAN
- C6 BUILDING GRADING PLAN
- C7 ROAD RECLAMATION GRADING PLAN
- C8 WALL PLAN AND PROFILE I
- C9 WALL PLAN AND PROFILE II
- C10 WALL PLAN AND PROFILE III
- C11 WALL PLAN AND PROFILE IV
- C12 UTILITY SERVICES PLAN
- C13 OFF-SITE WATER SYSTEM PLAN
- C14 ON-SITE WATER SYSTEM PLAN
- C15 OVERALL STORM SYSTEM PLAN
- C16 ROOF DRAIN AND PATIO PLAN AND PROFILE
- C17 POND PLAN AND PROFILE
- C18 DETAILS
- G1-4 OWTS PLANS

NOTE:

THE OWNER AGREES ON BEHALF OF HIM/HERSELF AND ANY DEVELOPER OR BUILDING SUCCESSORS AND ASSIGNEES THAT SUBDIVIDER AND/OR SUCCESSORS AND ASSIGNEES SHALL BE REQUIRED TO PAY TRAFFIC IMPACT FEES IN ACCORDANCE WITH THE EL PASO COUNTY ROAD IMPACT FEE PROGRAM RESOLUTION (RESOLUTION NO. 19-471), OR ANY AMENDMENTS THERETO, AT OR PRIOR TO THE TIME OF BUILDING PERMIT SUBMITTALS. THE FEE OBLIGATION, IF NOT PAID AT FINAL PLAT RECORDING, SHALL BE DOCUMENTED ON ALL SALES DOCUMENTS AND ON PLAT NOTES TO ENSURE THAT A TITLE SEARCH WOULD FIND THE FEE OBLIGATION BEFORE SALE OF THE PROPERTY.

PROJECT TEAM

OWNER:

El Paso County
200 S Cascade Ave Ste 150
Colorado Springs CO, 80903
719-520-7529
Jason Meyer
Todd Marts

STRUCTURAL ENGINEER:

RMG Engineers
2910 Austin Bluffs Parkway
Colorado Springs, CO 80918
719 548-0600
Mike Thompson

ARCHITECT:

TDG Architecture
201 E. Las Animas Street, Ste. 113
Colorado Springs, CO 80903
719-623-5641
Sharon Allen
Mark Tremmel

GREEN INITIATIVES, MECHANICAL, ELECTRICAL, ENGINEER:

PCD Engineering, Inc.
4303 E. Brighton Boulevard, Suite #3
Denver, CO 80216
303 733-3078
Jacob Goodman, LEEDap, BEMP
Alex Pontasch
Walter Shoup

LANDSCAPE ARCHITECT:

Tapis Associates
540 Buckeye, Terrace Level
Colorado Springs, CO 80919
719 593-1540
Priscilla Marbaker

GEOTECHNICAL ENGINEERING:

RMG Engineers
2910 Austin Bluffs Parkway
Colorado Springs, CO 80918
719 548-0600
Kelli Zigler, PE

EXHIBIT DESIGNER:

Studio Tectonic
400 Marine Street, Carriage House
Boulder, CO 80302
720 398-3030
Seth Frankel
Zach Mosely

TRAFFIC ENGINEER:

SM Rocha, LLC
8703 Yates Drive, Suite 210
Westminster, CO 80031
719 203-6639
Mike Rocha, TOPS, TSOS
Brandon Wilson

CIVIL ENGINEER:

Baseline Engineering Corporation
112 N. Rubey Drive, #210
Golden, CO 80403
303 940-9966
Steven G. Baggs, PE
Alan Lunsford

COST ESTIMATOR:

Colarelli Construction
111 S. Tejon St., Suite 112
Colorado Springs, CO 80903
719 475-7997
Mike Senger

REVISIONS		
DATE	FOR	

NOT FOR CONSTRUCTION

TDG Architecture

201 East Las Animas, Suite 113
Colorado Springs, CO 80903
719-623-5641 (Phone)
719-623-5643 (Fax)

FOX RUN NATURE CENTER

Fox Run Regional Park
2110 Stella Drive
Colorado Springs, CO 80921

DEVELOPMENT PLAN - COVER SHEET

DATE: 10/24/24

DRAWN BY: tdg

CHECKED BY: TDG

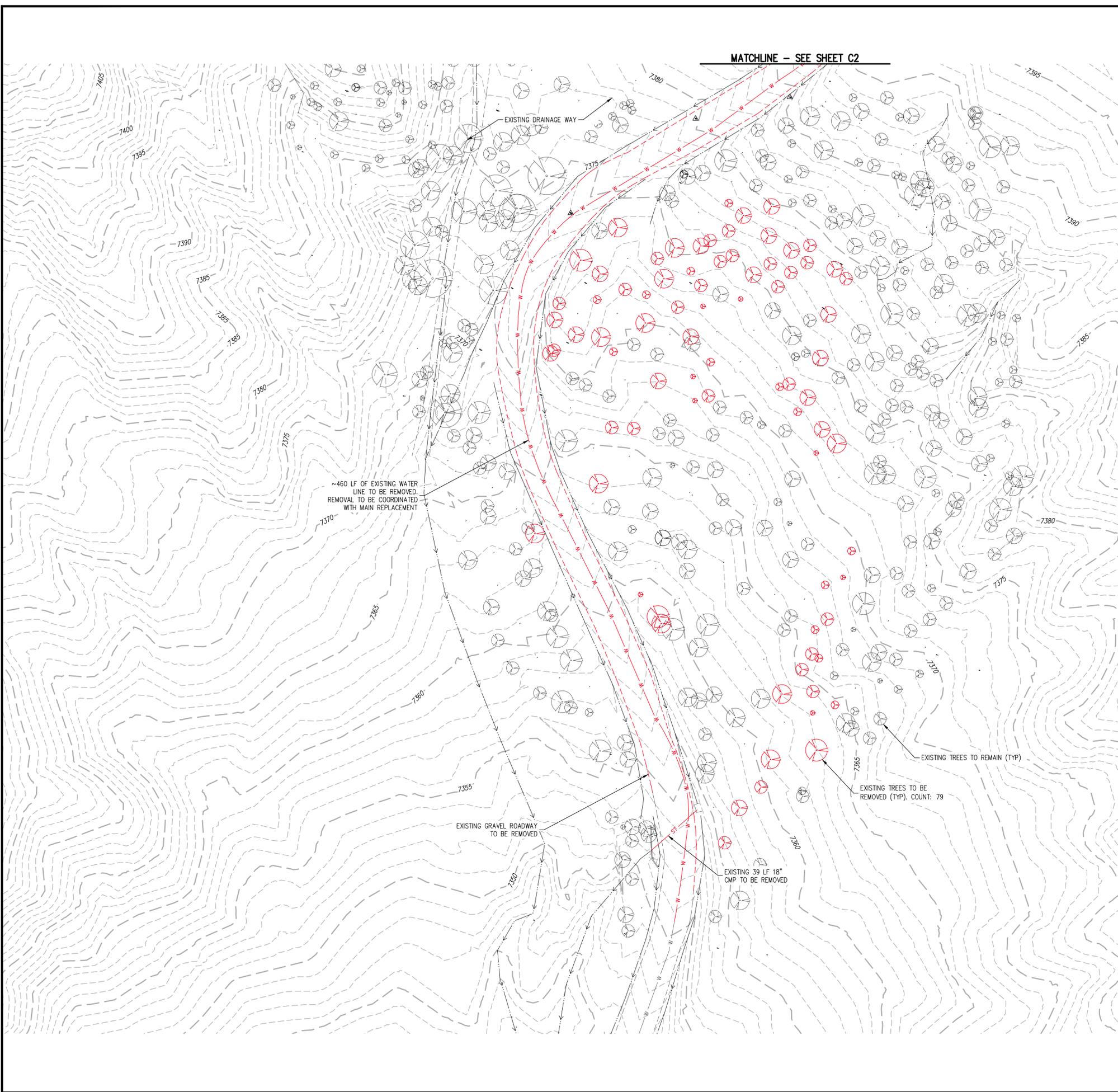
PROJECT NO.: 22164

SHEET:

DP-CS

1 OF XX

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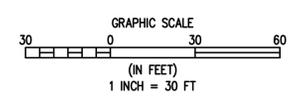
MATCHLINE - SEE SHEET C2

LEGEND

EXISTING LINETYPES		DEMO LINETYPES		
---	5280	---	---	MAJOR CONTOUR (5' INTERVAL)
---	81	---	---	MINOR CONTOUR (1' INTERVAL)
---	---	---	---	EDGE OF GRAVEL
---	---	---	---	WATER LINE
EXISTING SYMBOLS	DEMO SYMBOLS			
(Symbol)	(Symbol)	CONIFEROUS TREE		

DEMOLITION NOTES:

- IN GENERAL, DEMOLITION ITEMS INCLUDE BUT ARE NOT LIMITED TO TREES, GRAVEL ROAD, STORM SEWER CULVERTS, WATER MAIN, ETC. REMOVAL ITEMS ARE SHOWN ON THE DEMOLITION PLAN.
- CONTRACTOR TO COORDINATE WITH PROJECT TEAM AND EL PASO COUNTY STAFF PRIOR TO REMOVAL OF ANY TREES. THE TREES SHOWN ARE PER FIELD SURVEY FOR TREES 4' AND LARGER SO ADDITIONAL TREES MAY BE ENCOUNTERED THAT NEED TO BE PROTECTED OR REMOVED. TREE REMOVAL WILL ADHERE TO THE TREE PROTECTION PLAN TO AVOID REMOVAL OF OR DAMAGE TO TREES THAT ARE TO REMAIN. TREES ARE TO BE DISPOSED OF AT AN APPROVED OFFSITE LOCATION UNLESS OTHERWISE DIRECTED BY EL PASO COUNTY PARKS PERSONNEL.
- REMOVAL OF THE WATER MAIN SHALL BE IN COMPLIANCE WITH ALL REQUIREMENTS OF THE DONALA WATER & SANITATION DISTRICT. REMOVAL OF THE EXISTING WATER MAIN IN ACCORDANCE WITH THE APPROVED PLANS WILL REQUIRE A TEMPORARY WATER SERVICE PLAN TO MAINTAIN THE WATER SERVICE FOR THE PORTIONS OF THE FOX RUN PARK THAT ALSO UTILIZE THIS MAIN.
- DISPOSAL OF REMOVAL ITEMS SHALL BE TO AN APPROVED OFFSITE LOCATION UNLESS OTHERWISE DIRECTED BY EL PASO COUNTY PERSONNEL.



DESIGNED BY	AJL
DRAWN BY	AJL
CHECKED BY	SGB

PREPARED BY	DATE
	06/26/2024

REVISION DESCRIPTION	60% DESIGN SET
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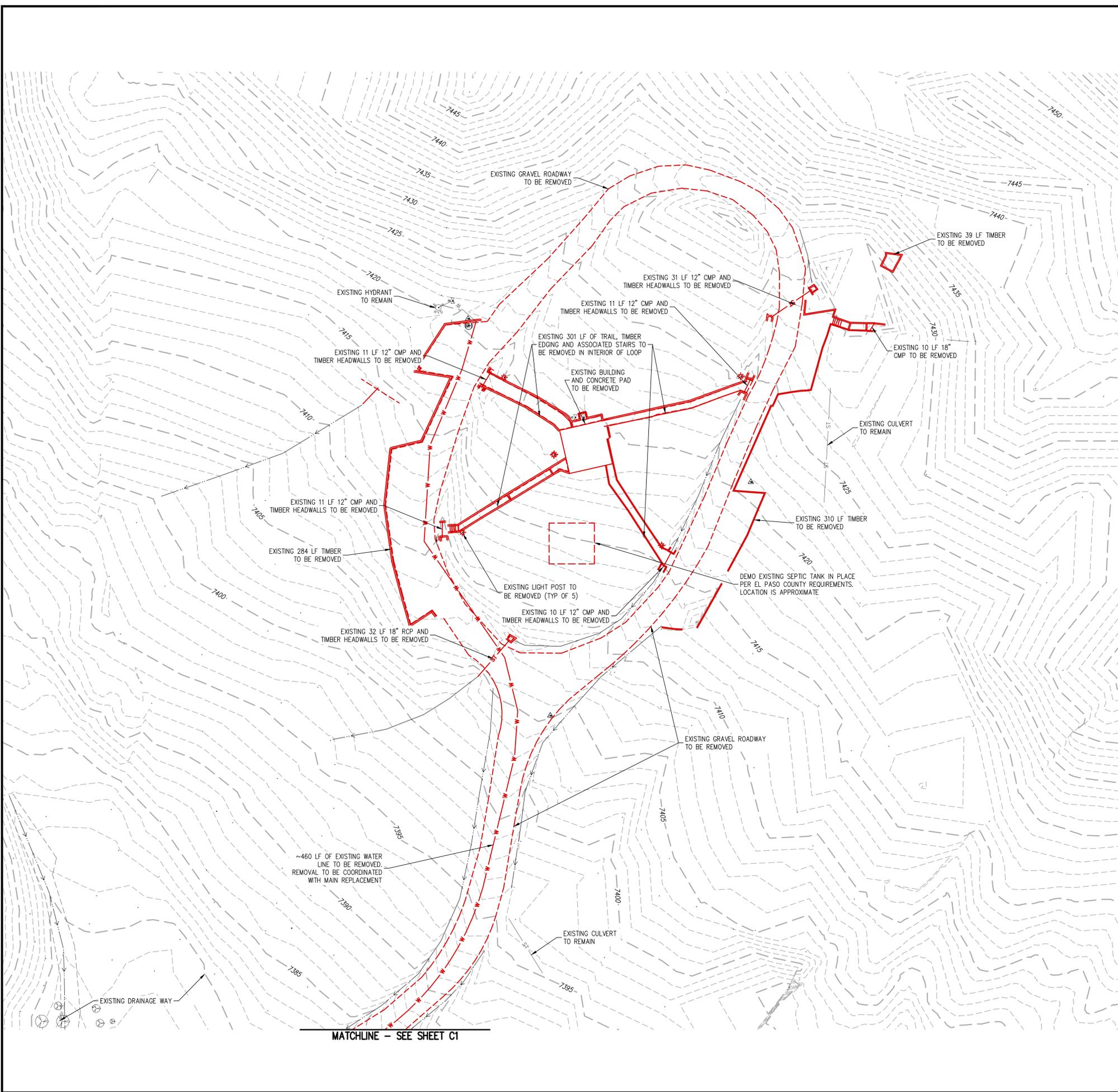
EL PASO COUNTY PARKS
 EL PASO COUNTY
 FOX RUN NATURE CENTER
 EXISTING CONDITIONS & DEMO PLAN I

PREPARED UNDER THE DIRECT SUPERVISION OF

PRELIMINARY NOT FOR CONSTRUCTION

FOR AND ON BEHALF OF	BASELINE CORPORATION
INITIAL SUBMITTAL	XX/XX/XX
DRAWING SIZE	24" X 36"
SURVEY FIRM	SURVEY DATE
BASELINE	10/31/2023
JOB NO.	C035069
DRAWING NAME	35069 Demo Plan.dwg
SHEET	1 OF 16

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LEGEND

EXISTING LINETYPES		DEMO LINETYPES		
---	5280	---		MAJOR CONTOUR (5' INTERVAL)
---	81	---		MINOR CONTOUR (1' INTERVAL)
---		---		EDGE OF GRAVEL
---		---		WATER LINE
EXISTING SYMBOLS	DEMO SYMBOLS			
		CONIFEROUS TREE		

DEMOLITION NOTES:

1. IN GENERAL, DEMOLITION ITEMS INCLUDE BUT ARE NOT LIMITED TO TREES, GRAVEL ROAD, STORM SEWER CULVERTS, WATER MAIN, ETC. REMOVAL ITEMS ARE SHOWN ON THE DEMOLITION PLAN.
2. CONTRACTOR TO COORDINATE WITH PROJECT TEAM AND EL PASO COUNTY STAFF PRIOR TO REMOVAL OF ANY TREES. THE TREES SHOWN ARE PER FIELD SURVEY FOR TREES 4' AND LARGER SO ADDITIONAL TREES MAY BE ENCOUNTERED THAT NEED TO BE PROTECTED OR REMOVED. TREE REMOVAL WILL ADHERE TO THE TREE PROTECTION PLAN TO AVOID REMOVAL OF OR DAMAGE TO TREES THAT ARE TO REMAIN. TREES ARE TO BE DISPOSED OF AT AN APPROVED OFFSITE LOCATION UNLESS OTHERWISE DIRECTED BY EL PASO COUNTY PARKS PERSONNEL.
3. REMOVAL OF THE WATER MAIN SHALL BE IN COMPLIANCE WITH ALL REQUIREMENTS OF THE DONALA WATER & SANITATION DISTRICT. REMOVAL OF THE EXISTING WATER MAIN IN ACCORDANCE WITH THE APPROVED PLANS WILL REQUIRE A TEMPORARY WATER SERVICE PLAN TO MAINTAIN THE WATER SERVICE FOR THE PORTIONS OF THE FOX RUN PARK THAT ALSO UTILIZE THIS MAIN.
4. DISPOSAL OF REMOVAL ITEMS SHALL BE TO AN APPROVED OFFSITE LOCATION UNLESS OTHERWISE DIRECTED BY EL PASO COUNTY PERSONNEL.

DESIGNED BY	AJL
DRAWN BY	AJL
CHECKED BY	SGB

DATE	06/26/2024
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PREPARED BY	
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REVISION DESCRIPTION	
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60% DESIGN SET	
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EL PASO COUNTY	
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FOX RUN NATURE CENTER	
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EXISTING CONDITIONS & DEMO PLAN II	
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PREPARED UNDER THE DIRECT SUPERVISION OF	
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PRELIMINARY NOT FOR CONSTRUCTION

FOR AND ON BEHALF OF	
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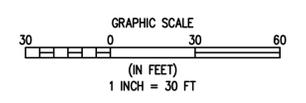
INITIAL SUBMITTAL	XX/XX/XX
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DRAWING SIZE	24" X 36"
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SURVEY FIRM	BASELINE
SURVEY DATE	10/31/2023

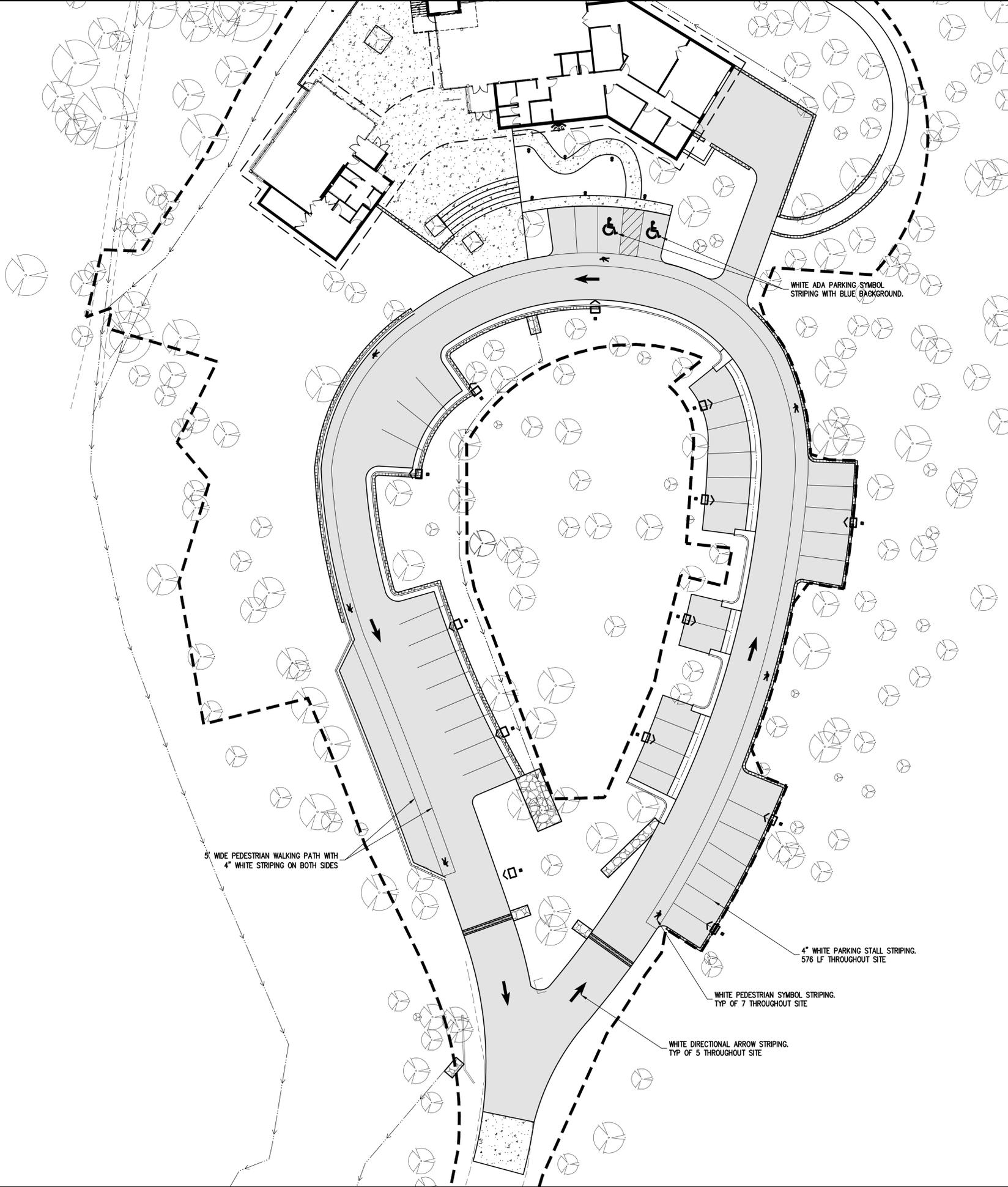
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DRAWING NAME	35069 Demo Plan.dwg
SHEET	2 OF 16

C2



MATCHLINE - SEE SHEET C1

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LEGEND

	EXISTING LINETYPES		PROPOSED LINETYPES		EDGE OF ASPHALT
					EDGE OF BUILDING
					RETAINING WALL
					CURB AND GUTTER (SPILL/CATCH)

	EXISTING SYMBOLS		PROPOSED SYMBOLS	CONIFEROUS TREE
				ADA PARKING STALL

	ASPHALT PAVING - REFER TO SOILS REPORT FOR PAVING SECTION
	CONCRETE PAVING
	PEDESTRIAN WALKWAY

8' WIDE PEDESTRIAN WALKING PATH WITH 4" WHITE STRIPING ON BOTH SIDES

4" WHITE PARKING STALL STRIPING. 576 LF THROUGHOUT SITE

WHITE PEDESTRIAN SYMBOL STRIPING. TYP OF 7 THROUGHOUT SITE

WHITE DIRECTIONAL ARROW STRIPING. TYP OF 5 THROUGHOUT SITE

WHITE ADA PARKING SYMBOL STRIPING WITH BLUE BACKGROUND.

N

GRAPHIC SCALE
20 0 20 40
(IN FEET)
1 INCH = 20 FT

BASELINE Engineering - Planning - Surveying		12 N RIBEY DRIVE SUITE 210 • GOLDEN, COLORADO 80403 P. 303.940.9966 • F. 303.940.9969 • www.baselinecorp.com	
DESIGNED BY AUL	DATE 06/26/2024	DRAWN BY AUL	CHECKED BY SGB
REVISION DESCRIPTION 60 % DESIGN SET		PREPARED BY AUL	
EL PASO COUNTY PARKS		EL PASO COUNTY	
FOX RUN NATURE CENTER		STRIPING PLAN	
PREPARED UNDER THE DIRECT SUPERVISION OF			
PRELIMINARY NOT FOR CONSTRUCTION			
FOR AND ON BEHALF OF BASELINE CORPORATION			
INITIAL SUBMITTAL	XX/XX/XX	DRAWING SIZE	24" X 36"
SURVEY FIRM	BASELINE	SURVEY DATE	10/31/2023
JOB NO.	C035069		
DRAWING NAME	35069 Striping Plan.dwg		
SHEET	4	OF	16
C4			

LEGEND

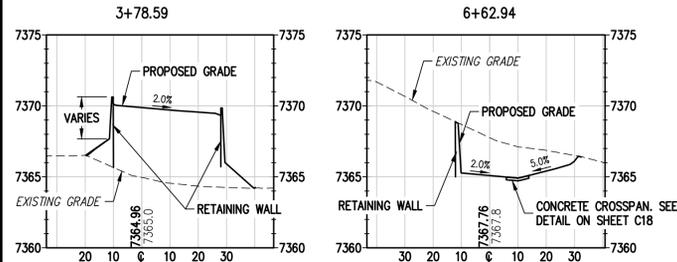
EXISTING LINETYPES	PROPOSED LINETYPES	
5280	5280	MAJOR CONTOUR (5' INTERVAL)
81	81	MINOR CONTOUR (1' INTERVAL)
		EDGE OF GRAVEL
		EDGE OF ASPHALT
	SF	SILT FENCE

EXISTING SYMBOLS	PROPOSED SYMBOLS	
		CONIFEROUS TREE
		NOMINAL SLOPE ON CUT OR FILL
		SPOT ELEVATION
		FLOW DIRECTION, TYPICALLY ON PAVED SURFACES

	ASPHALT PAVING - REFER TO SOILS REPORT FOR PAVING SECTION
	CONCRETE PAVING

ESTIMATED EARTHWORK QUANTITIES

-DISTURBED AREA = 1.56 ACRES
 -CUT = 1300 CY
 -FILL = 3800 CY
 -APPROX EXTRA CUT ALLOWANCE FOR FLATWORK = 700 CY
 -NET = 1800 CY (FILL)



B LOOP ROAD SECTION
 SCALE: 1" = 30'

A LOOP ROAD SECTION
 SCALE: 1" = 30'

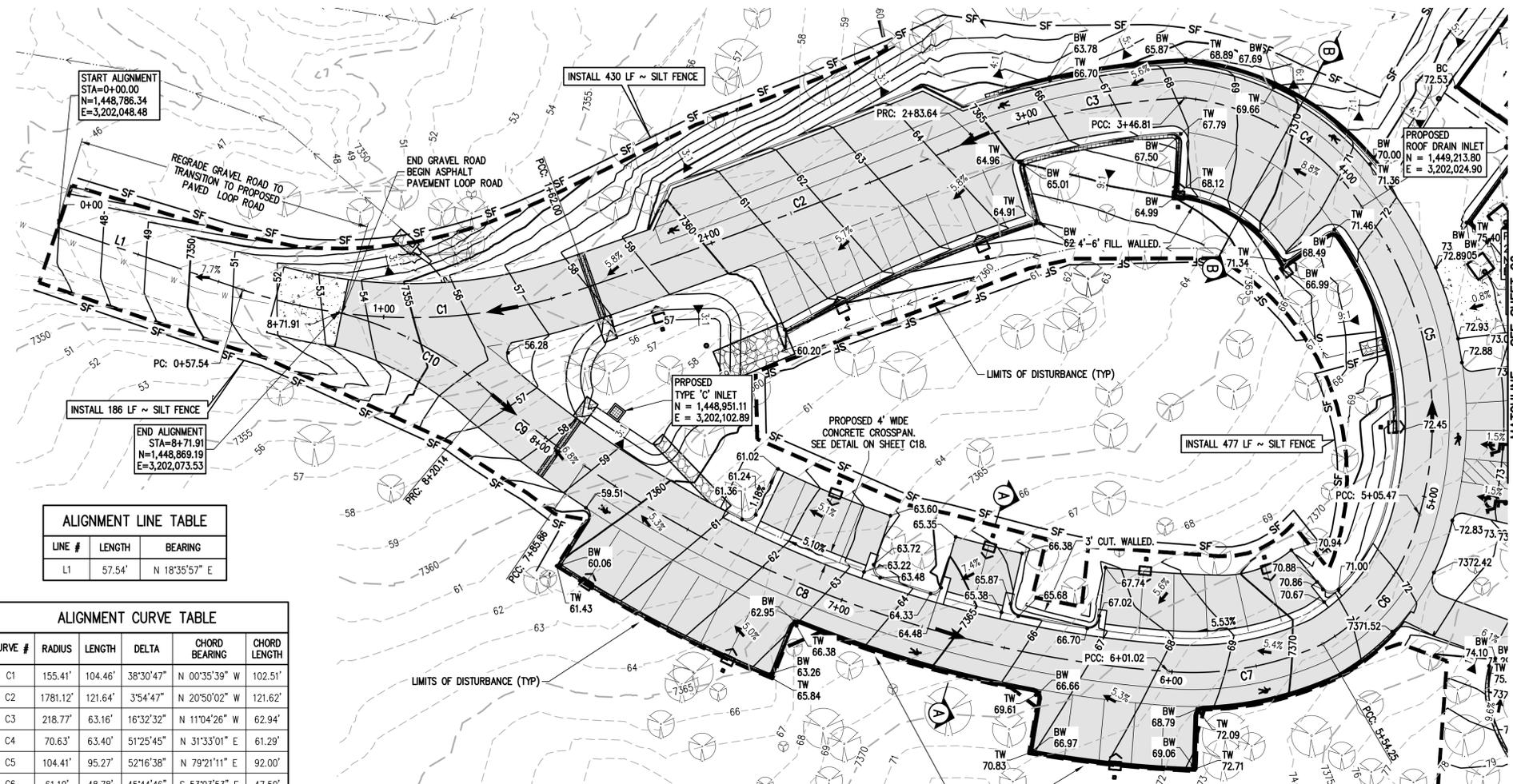
SEE GRADING & EROSION CONTROL NOTES ON SHEET C11

ALIGNMENT LINE TABLE

LINE #	LENGTH	BEARING
L1	57.54'	N 18°35'57" E

ALIGNMENT CURVE TABLE

CURVE #	RADIUS	LENGTH	DELTA	CHORD BEARING	CHORD LENGTH
C1	155.41'	104.46'	38°30'47"	N 00°35'39" W	102.51'
C2	1781.12'	121.64'	3°54'47"	N 20°50'02" W	121.62'
C3	218.77'	63.16'	16°32'32"	N 11°04'26" W	62.94'
C4	70.63'	63.40'	51°25'45"	N 31°33'01" E	61.29'
C5	104.41'	95.27'	52°16'38"	N 79°21'11" E	92.00'
C6	61.10'	48.78'	45°44'46"	S 53°03'53" E	47.50'
C7	91.30'	46.76'	29°20'53"	S 10°07'05" E	46.25'
C8	349.31'	184.84'	30°19'07"	S 19°20'37" W	182.69'
C9	350.75'	34.28'	5°35'57"	S 37°29'23" W	34.26'
C10	104.11'	51.77'	28°29'35"	S 28°04'09" W	51.24'



PVI STA: 4+29.84
 PVI ELEV: 7372.68
 K: 4.57
 A: -5.47%
 LVC: 25.00

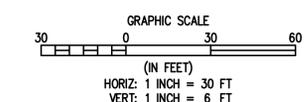
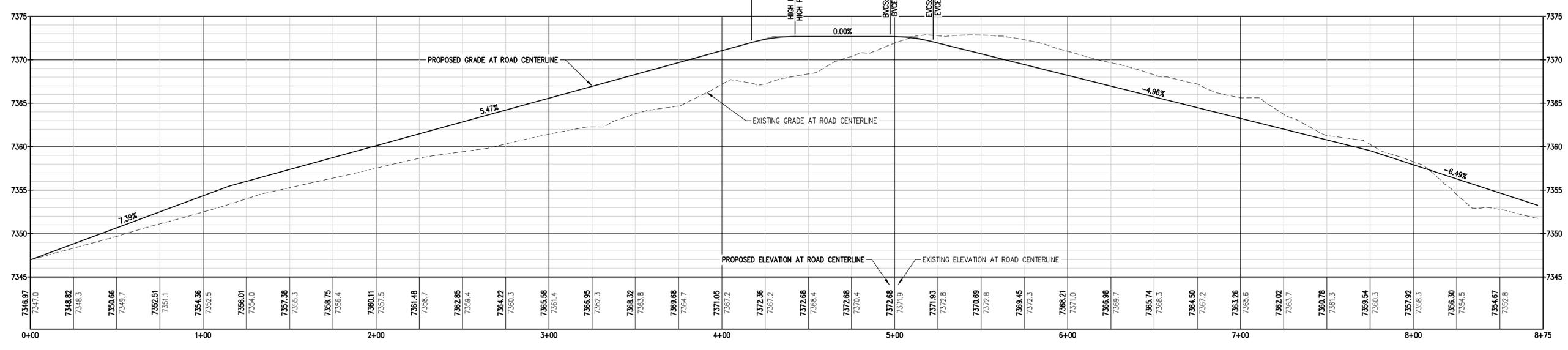
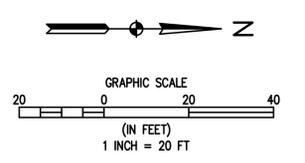
BVC: 4+17.34
 BVCE: 7372.00

HIGH PT STA: 4+42.34
 HIGH PT ELEV: 7372.68

PVI STA: 5+09.83
 PVI ELEV: 7372.68
 K: 3.04
 A: -4.96%
 LVC: 25.00

BVC: 4+97.33
 BVCE: 7372.68

EVC: 5+22.33
 EVCE: 7372.06



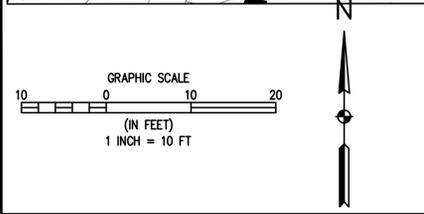
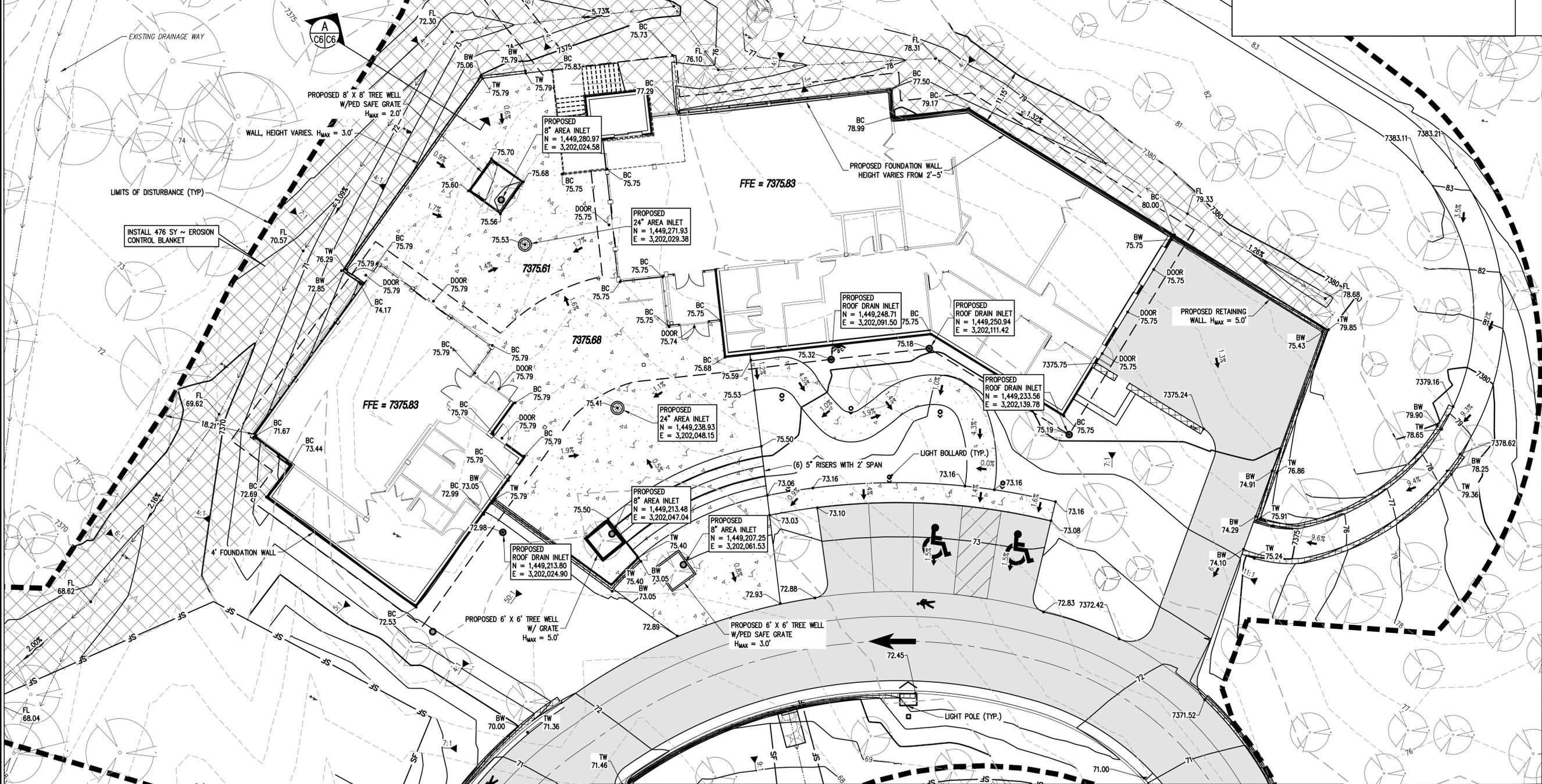
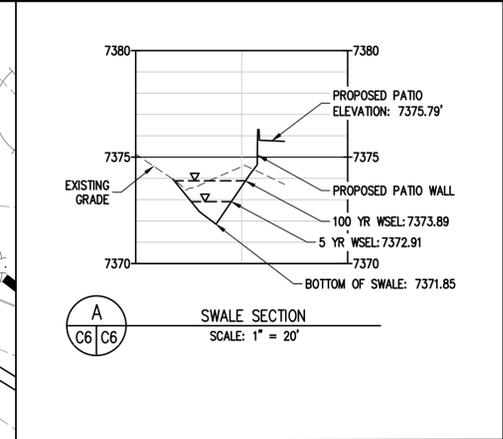
DESIGNED BY	DATE
AJJ	06/26/2024
DRAWN BY	CHECKED BY
AJJ	SCB
REVISION DESCRIPTION	DATE
60% DESIGN SET	

EL PASO COUNTY
 EL PASO COUNTY PARKS
 FOX RUN NATURE CENTER
 DRIVEWAY & PARKING AREA GRADING PLAN

PREPARED UNDER THE DIRECT SUPERVISION OF
PRELIMINARY NOT FOR CONSTRUCTION
 FOR AND ON BEHALF OF
 BASELINE CORPORATION
 INITIAL SUBMITTAL XX/XX/XX
 DRAWING SIZE 24" X 36"
 SURVEY FIRM SURVEY DATE
 BASELINE 10/31/2023
 JOB NO. C035069
 DRAWING NAME 35069 Grading Plan.dwg
 SHEET 5 OF 16
C5

GRADING & EROSION CONTROL NOTES:

- SITE GRADING TO BE COMPLETED TO THE LINES AND GRADES INDICATED ON THE PLANS. IN GENERAL, THE SITE GRADING INCLUDES OVERLOT GRADING FOR THE BUILDINGS, ACCESS ROAD AND PARKING LOT, PLAZA AND LANDSCAPE AREAS, DRAINAGE SWALES AND A WATER QUALITY FACILITY.
- ELEVATIONS AND TREE LOCATIONS ARE BASED ON FIELD SURVEY BY BASELINE ENGINEERING. TREES SMALLER THAN 4" IN DIAMETER AND ADJUSTMENT OF THE SITE SINCE THE SURVEY WAS COMPLETED MAY RESULT IN ADDITIONAL TREES WITHIN THE DEMOLITION AND PRESERVATION AREAS.
- SUBGRADE REQUIREMENTS FOR THE BUILDING, ACCESS ROAD, PARKING LOT AND HARDSCAPE AREAS SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT FOR THE SITE.
- ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL UNLESS OTHERWISE NOTED.
- EXTREME CAUTION SHALL BE USED TO PROTECT TREES AND VEGETATION AREAS INDICATED TO REMAIN ON THE CIVIL AND LANDSCAPE PLANS. LIMITS OF DISTURBANCE ARE NOTED ON THE DESIGN PLANS. ADJUSTMENT OF THESE LIMITS IS SUBJECT TO APPROVAL BY THE DESIGN TEAM AND/OR EL PASO COUNTY STAFF. THESE LIMITS MAY BE AFFECTED BY TREE PROTECTION REQUIREMENTS AND OTHER FIELD CONDITIONS.
- AN AREA OF DISTURBANCE IS INDICATED FOR THE CANOPY WALK PORTION OF THE SITE. GRADING IS NOT REQUIRED FOR THIS PORTION OF THE PROJECT OTHER THAN GRADING DISTURBANCE FROM THE INSTALLATION OF THE SUPPORT TOWERS AND CONSTRUCTION ACCESS. THE AREA UNDER THE CANOPY WALK WILL BE REVEGETATED TO ITS NATURAL STATE UPON COMPLETION OF THE PROJECT.
- GRADING OPERATIONS SHALL NOT COMMENCE UNTIL INITIAL CONSTRUCTION BMPs ARE IN PLACE IN ACCORDANCE WITH THE APPROVED GRADING & EROSION CONTROL PLAN.
- INITIAL CONSTRUCTION BMPs INCLUDE SILT FENCING ON DOWN STREAM PERIMETER OF SITE AND EROSION BLANKETS ON THE MAIN DIVERSION SWALE. WATER QUALITY FACILITY TO BE UTILIZED AS TEMPORARY SEDIMENT BASIN DURING CONSTRUCTION.
- INTERIM CONSTRUCTION BMPs TO INCLUDE INLET PROTECTION WHERE APPLICABLE, ROCK CHECKS IN THE GRADED ROADWAY FLOWLINE, CONCRETE WASHOUT, VEHICLE TRACKING CONTROL AND SILT FENCE AT CANOPY WALK SUPPORT TOWER CONSTRUCTION LOCATIONS.
- FINAL CONSTRUCTION BMPs INCLUDE RESEEDING AND REVEGETATION OF THE SITE IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLANS.



LEGEND

EXISTING LINETYPES	PROPOSED LINETYPES	EXISTING SYMBOLS	PROPOSED SYMBOLS	DESCRIPTION
--- 5280 ---	--- 5280 ---	○	○	MAJOR CONTOUR (5' INTERVAL)
--- 81 ---	--- 81 ---	○	○	MINOR CONTOUR (1' INTERVAL)
---	---	---	---	EDGE OF GRAVEL
---	---	---	---	EDGE OF ASPHALT
---	---	---	---	SILT FENCE
		○	○	CONIFEROUS TREE
		▶ 3.1	▶ 3.1	NOMINAL SLOPE ON CUT OR FILL
		25.44	25.36	SPOT ELEVATION
		→	→	FLOW DIRECTION, TYPICALLY ON PAVED SURFACES
				ASPHALT PAVING - REFER TO SOILS REPORT FOR PAVING SECTION
				CONCRETE PAVING
				EROSION CONTROL BLANKET

BASELINE
Engineering - Planning - Surveying
12 N RIBBEY DRIVE, SUITE 210 • GOLDEN, COLORADO 80403
P. 303.540.9966 • F. 303.540.9966 • www.baselinecorp.com

DESIGNED BY	DATE
AJJ	06/26/2024
DRAWN BY	DATE
AJJ	
CHECKED BY	DATE
SCB	

EL PASO COUNTY
FOX RUN NATURE CENTER
BUILDING GRADING PLAN

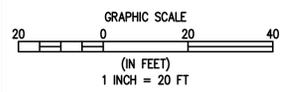
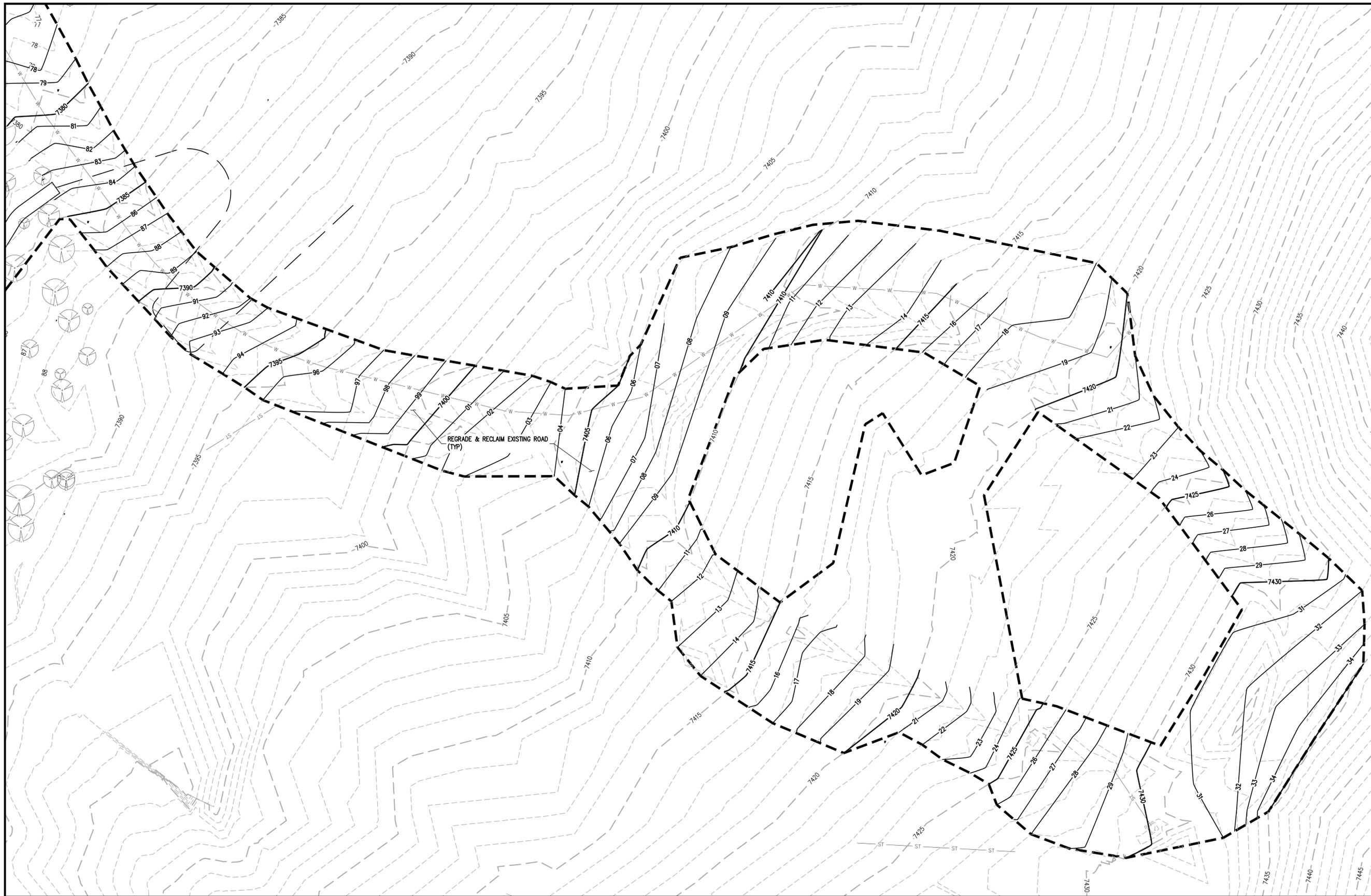
PREPARED UNDER THE DIRECT SUPERVISION OF
PRELIMINARY NOT FOR CONSTRUCTION

FOR AND ON BEHALF OF
BASELINE CORPORATION
INITIAL SUBMITTAL: XX/XX/XX
DRAWING SIZE: 24" X 36"
SURVEY FIRM: BASELINE
SURVEY DATE: 10/31/2023
JOB NO.: C035069
DRAWING NAME: 35069 Grading Plan.dwg
SHEET 6 OF 16

C6

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LEGEND

EXISTING LINETYPES	PROPOSED LINETYPES	
--- 5280 ---	— 5280 —	MAJOR CONTOUR (5' INTERVAL)
--- 81 ---	— 81 —	MINOR CONTOUR (1' INTERVAL)
---	---	EDGE OF GRAVEL
---	---	EDGE OF ASPHALT
---	— SF —	SILT FENCE

EXISTING SYMBOLS	PROPOSED SYMBOLS	
		CONIFEROUS TREE
		NOMINAL SLOPE ON CUT OR FILL
		SPOT ELEVATION
		FLOW DIRECTION, TYPICALLY ON PAVED SURFACES

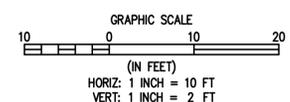
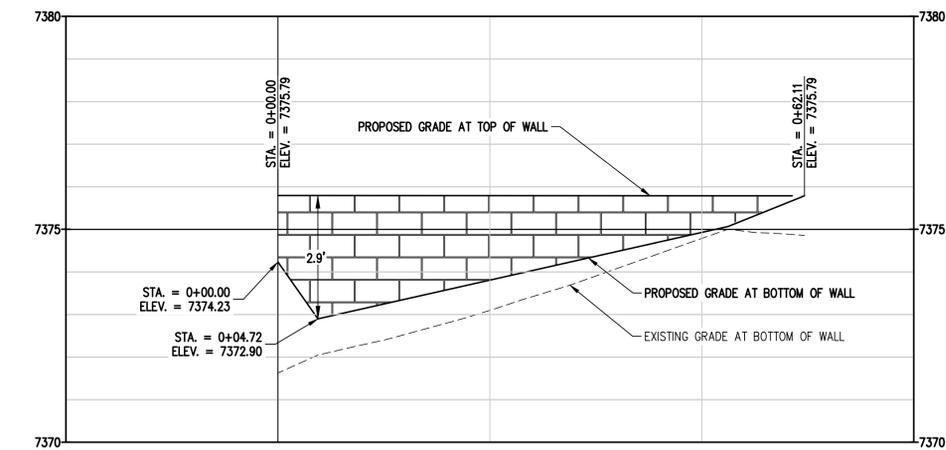
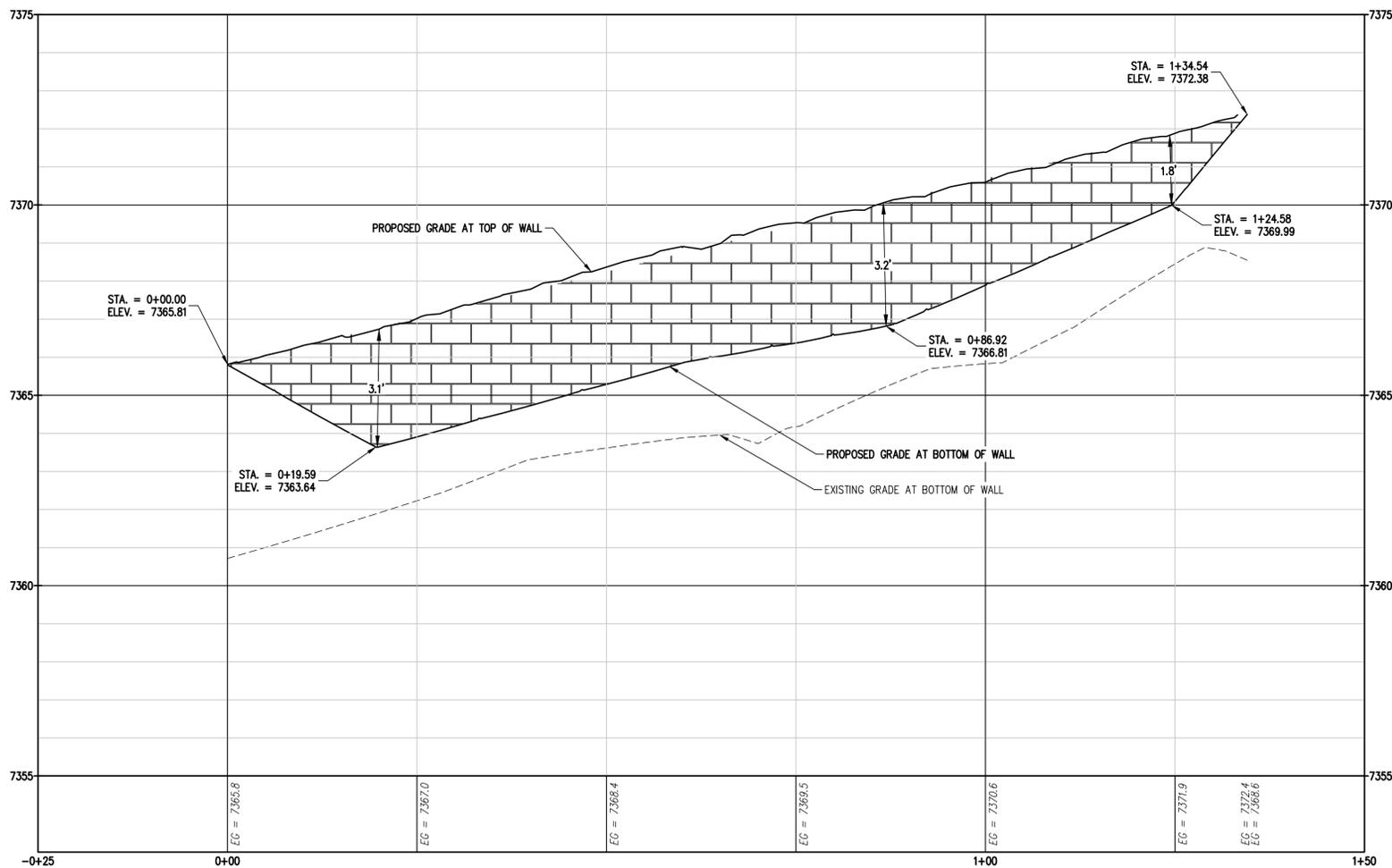
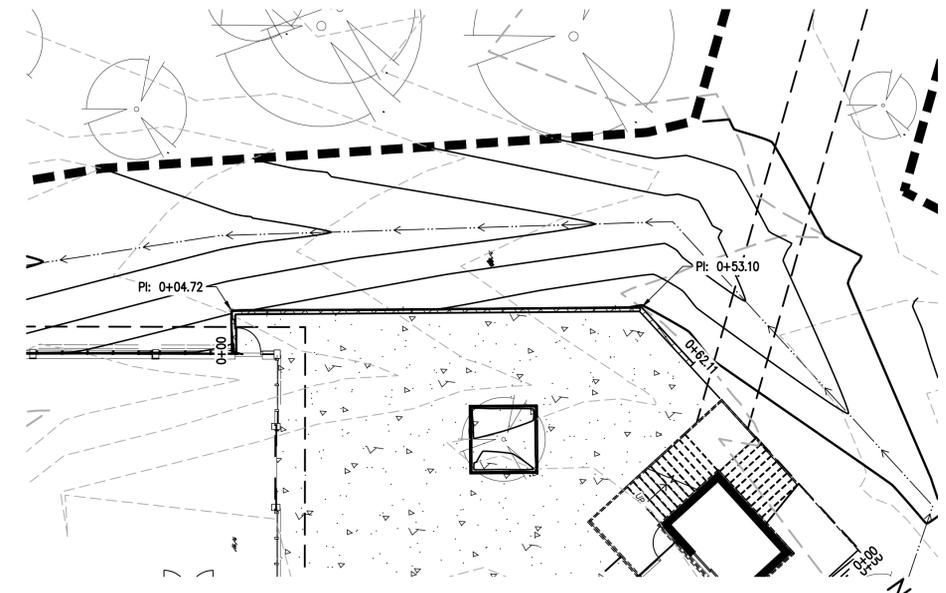
	ASPHALT PAVING – REFER TO SOILS REPORT FOR PAVING SECTION
	CONCRETE PAVING
	EROSION CONTROL BLANKET



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REVISION DESCRIPTION 60% DESIGN SET			
EL PASO COUNTY FOX RUN NATURE CENTER ROAD RECLAMATION GRADING PLAN			
PREPARED UNDER THE DIRECT SUPERVISION OF PRELIMINARY NOT FOR CONSTRUCTION			
FOR AND ON BEHALF OF BASELINE CORPORATION			
INITIAL SUBMITTAL	XX/XX/XX	DRAWING SIZE	24" X 36"
SURVEY FIRM	BASELINE	SURVEY DATE	10/31/2023
JOB NO.	C035069		
DRAWING NAME	35069 Grading Plan.dwg		
SHEET	7	OF	16

C7



1
C8 WALL PLAN AND PROFILE I

DESIGNED BY	DATE
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AJL	60% DESIGN SET
CHECKED BY	REVISION DESCRIPTION
SGB	

EL PASO COUNTY PARKS
EL PASO COUNTY
FOX RUN NATURE CENTER

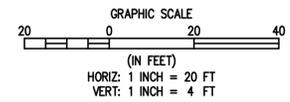
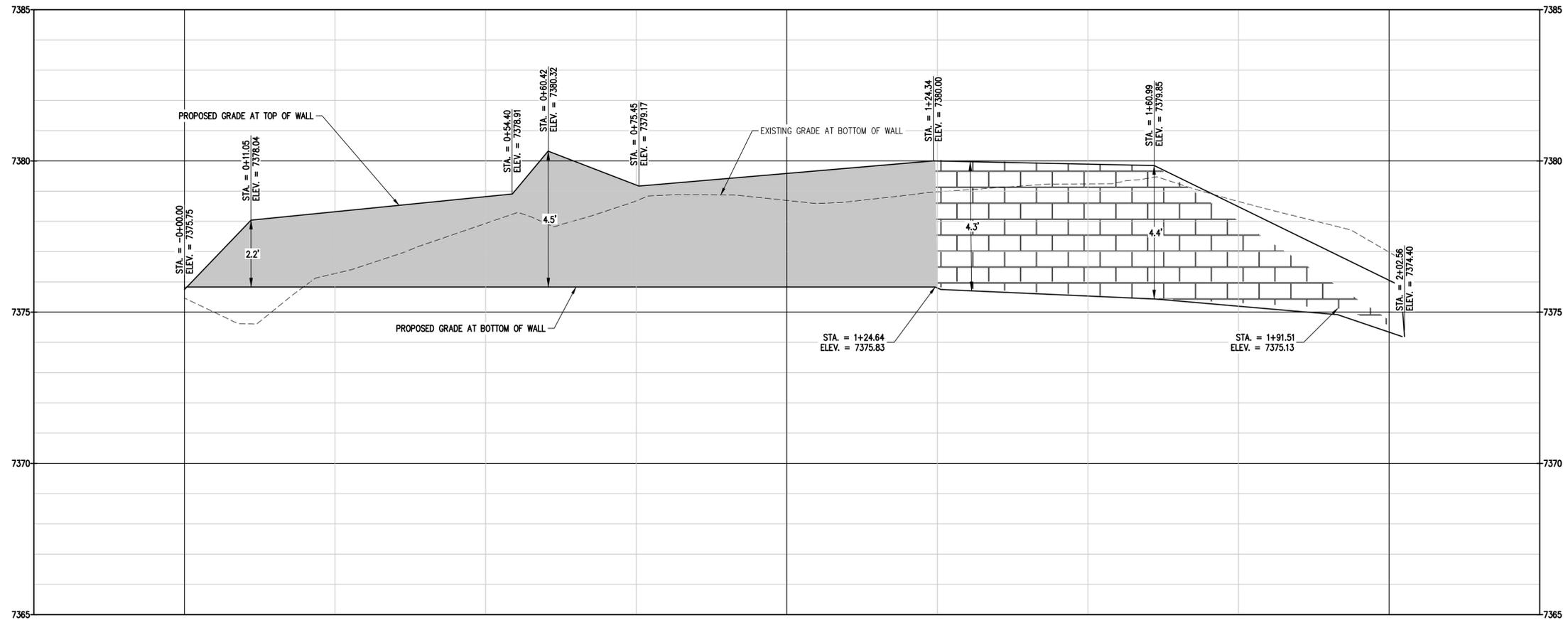
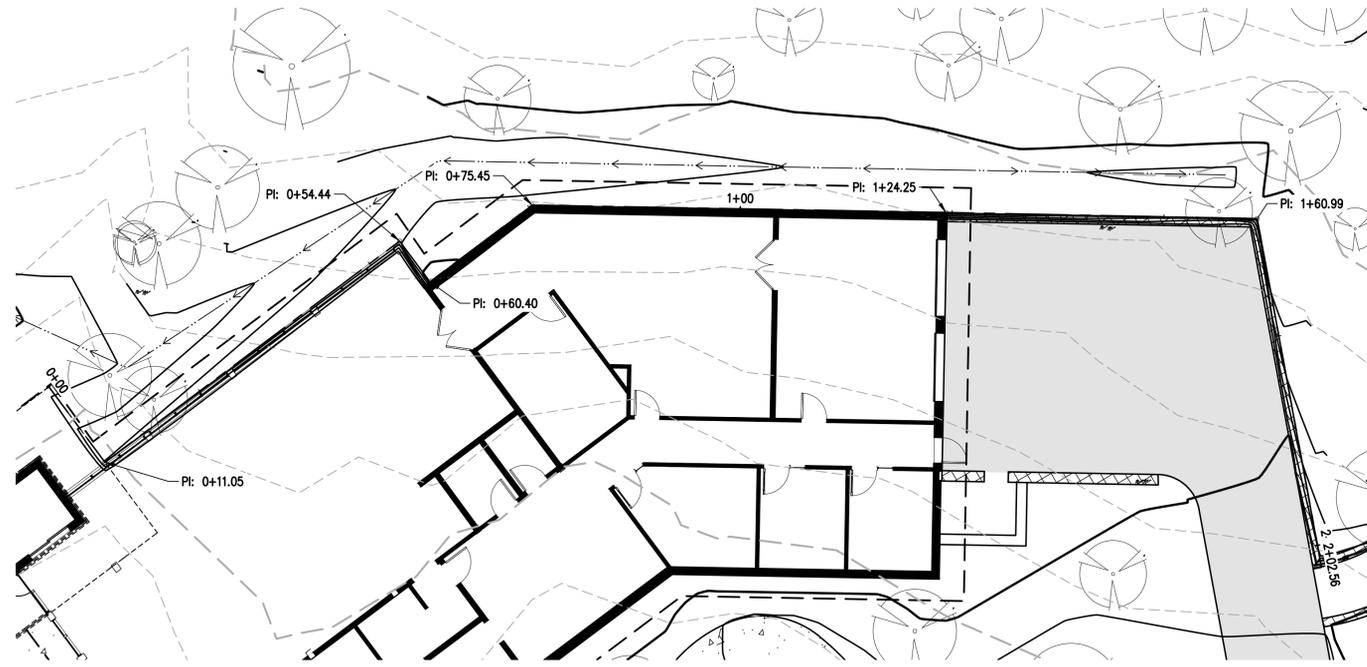
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NOT FOR
CONSTRUCTION**

FOR AND ON BEHALF OF
BASELINE CORPORATION

INITIAL SUBMITTAL	XX/XX/XX
DRAWING SIZE	24" X 36"
SURVEY FIRM	SURVEY DATE
BASELINE	10/31/2023
JOB NO.	C035069
DRAWING NAME	35069 Grading Details.dwg
SHEET	OF 16

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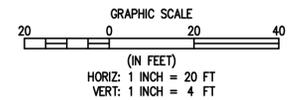
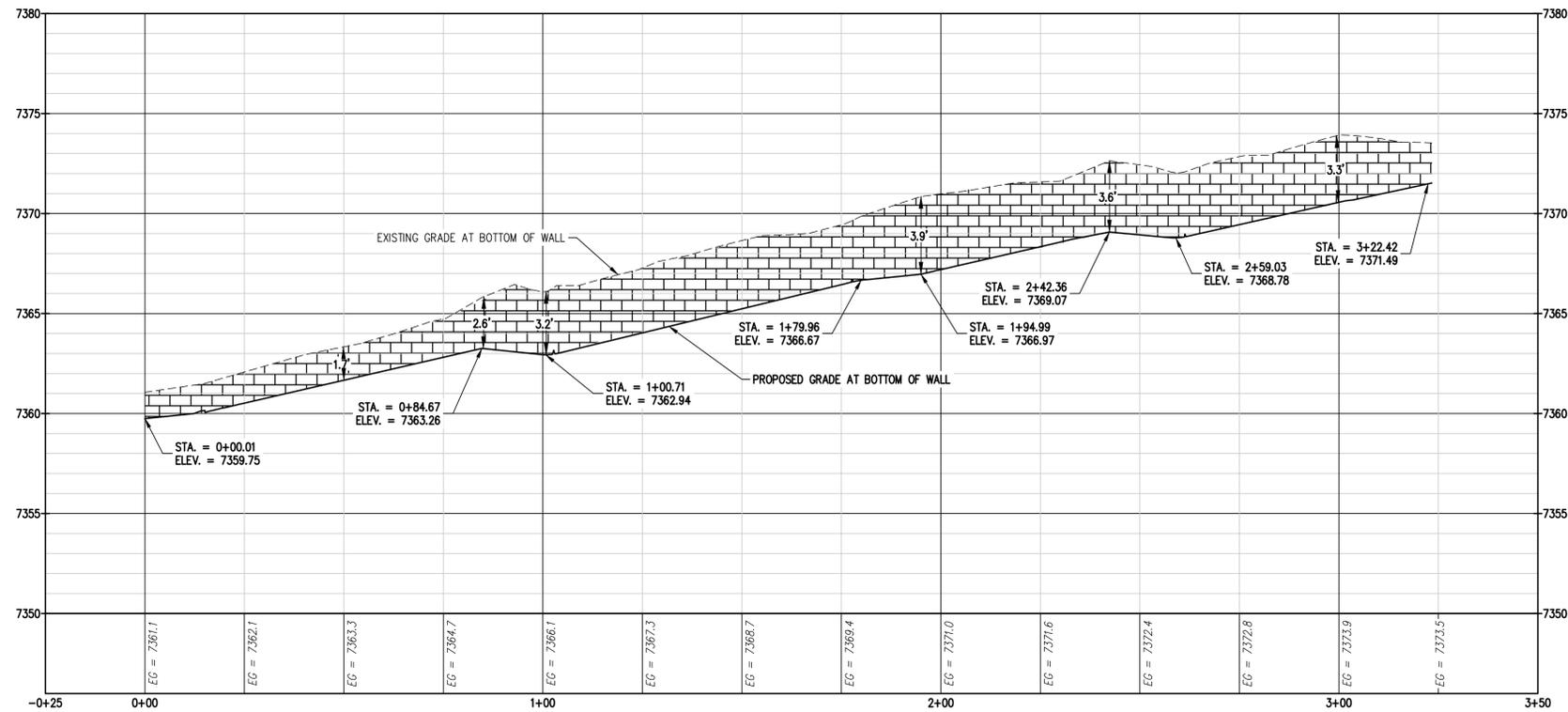
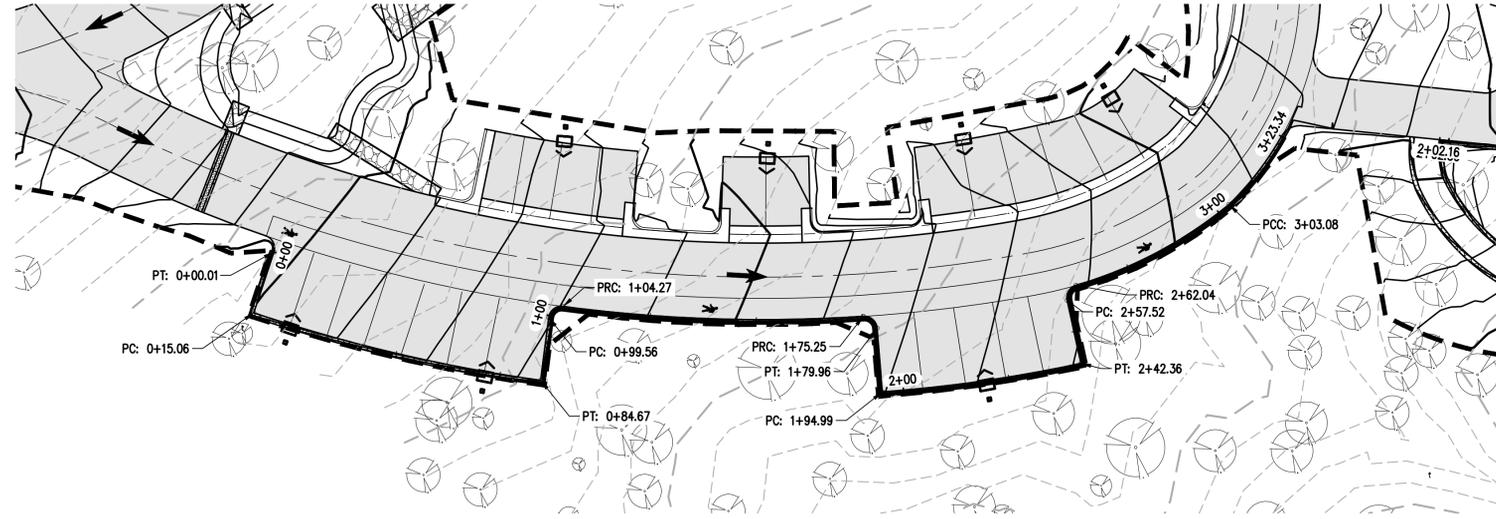
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C9 WALL PLAN AND PROFILE II

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EL PASO COUNTY PARKS
EL PASO COUNTY
FOX RUN NATURE CENTER

FOR AND ON BEHALF OF
BASELINE CORPORATION
PRELIMINARY
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FOR AND ON BEHALF OF
BASELINE CORPORATION
INITIAL SUBMITTAL XX/XX/XX
DRAWING SIZE 24" X 36"
SURVEY FIRM SURVEY DATE
BASELINE 10/31/2023
JOB NO. C035069
DRAWING NAME
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SHEET OF 16

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 C10 WALL PLAN AND PROFILE III

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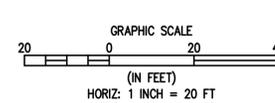
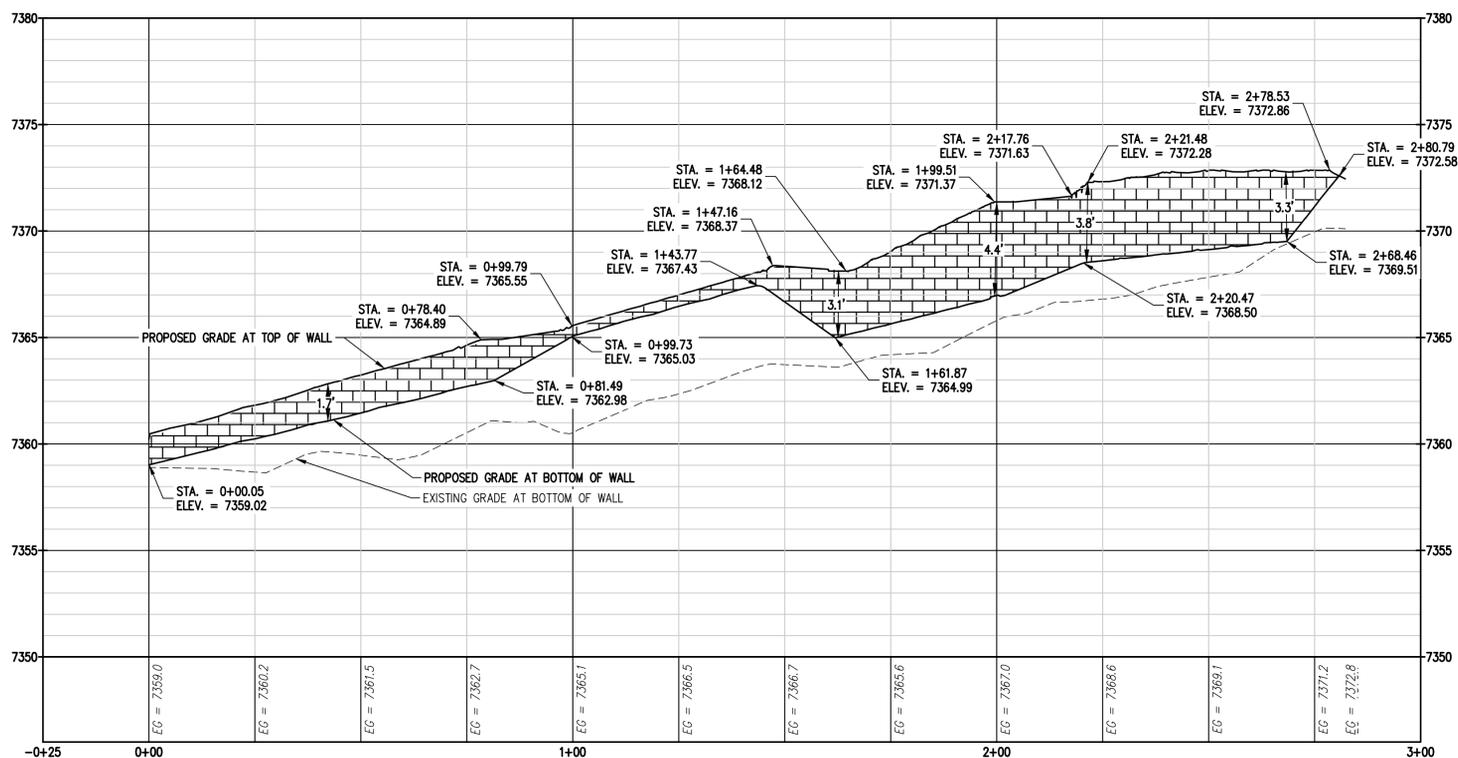
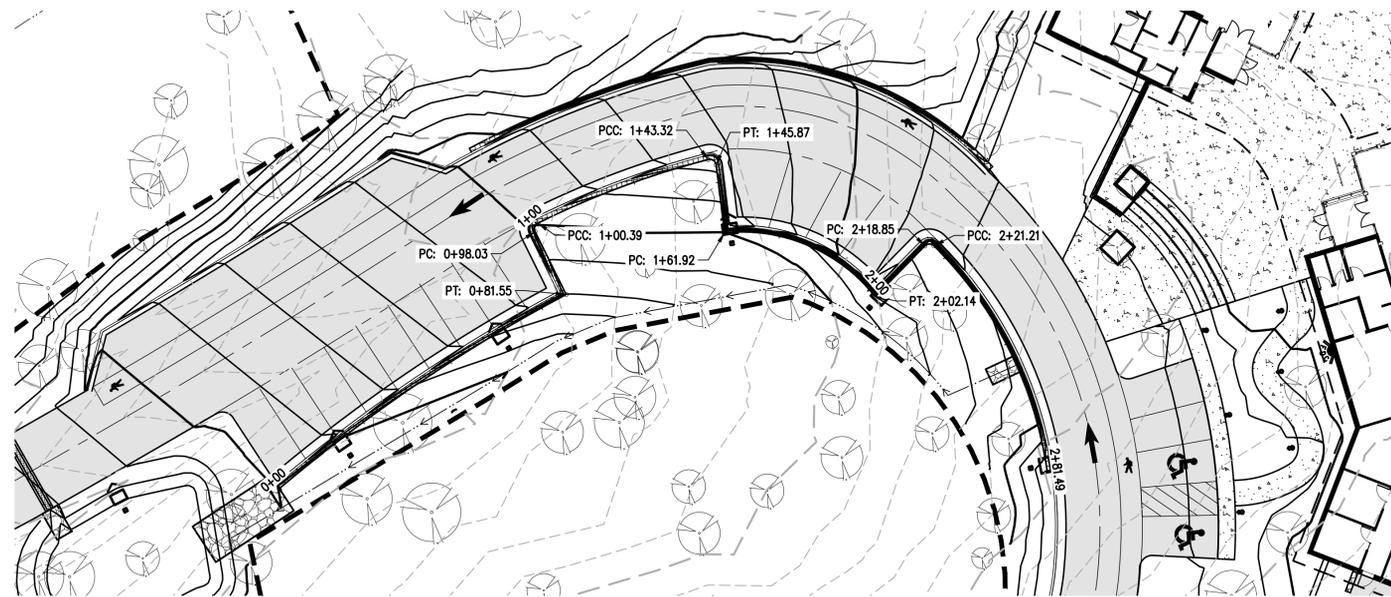
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FOR AND ON BEHALF OF	
BASELINE CORPORATION	
INITIAL SUBMITTAL	XX/XX/XX
DRAWING SIZE	24" X 36"
SURVEY FIRM	SURVEY DATE
BASELINE	10/31/2023
JOB NO.	C035069
DRAWING NAME	35069 Grading Details.dwg
SHEET	OF 16

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1
 C11 WALL PLAN AND PROFILE IV

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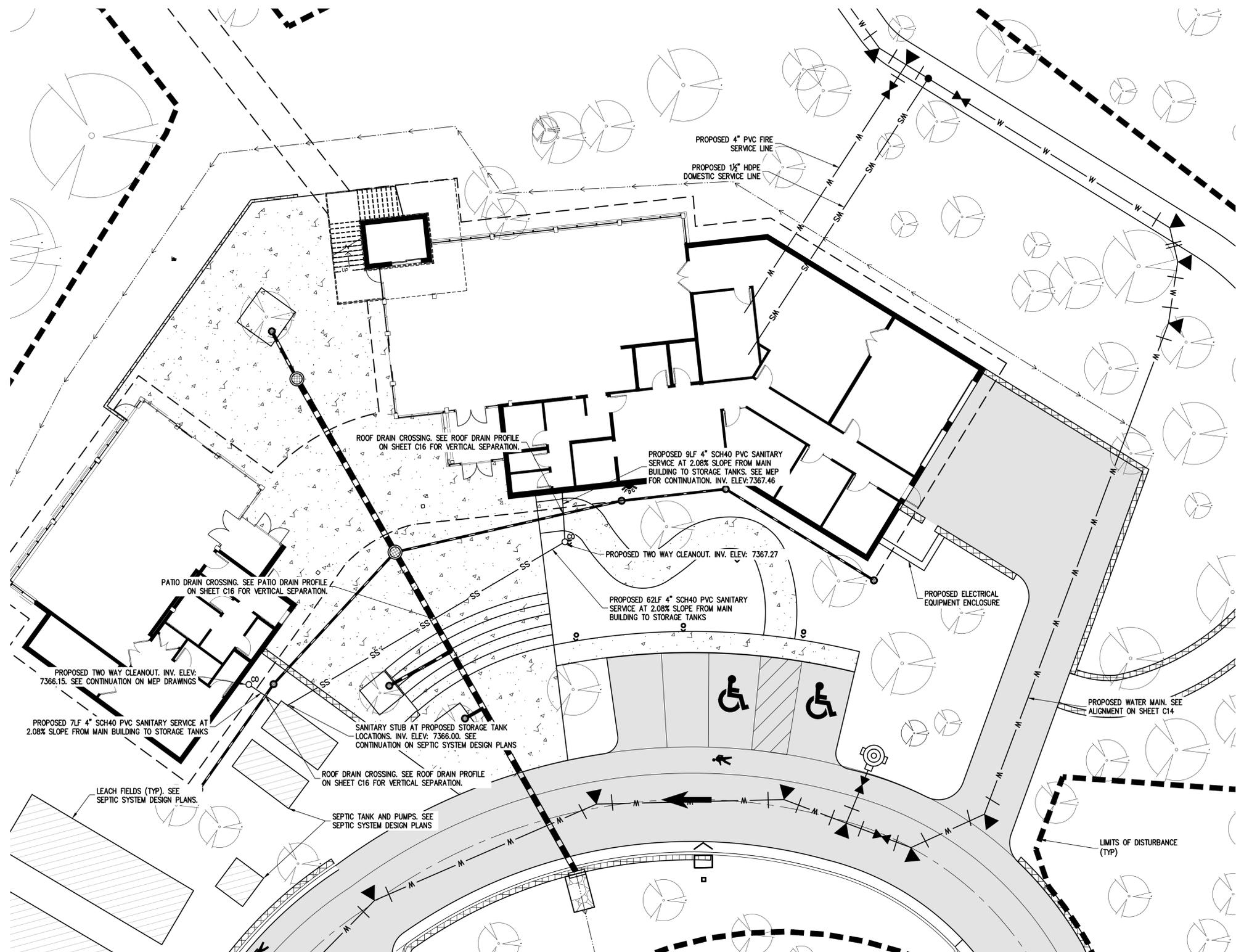
EL PASO COUNTY PARKS
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 BASELINE CORPORATION
 INITIAL SUBMITTAL XX/XX/XX
 DRAWING SIZE 24" X 36"
 SURVEY FIRM SURVEY DATE
 BASELINE 10/31/2023
 JOB NO. C035069
 DRAWING NAME
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 SHEET OF 16

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EL PASO COUNTY PARKS
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 FOX RUN NATURE CENTER
 UTILITY SERVICES PLAN

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 FOR AND ON BEHALF OF
 BASELINE CORPORATION
 INITIAL SUBMITTAL XX/XX/XX
 DRAWING SIZE 24" X 36"
 SURVEY FIRM SURVEY DATE
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 JOB NO. C035069
 DRAWING NAME
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 SHEET 12 OF 16
 C12



LEGEND

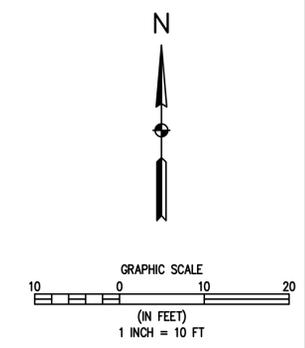
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5280	5280	MAJOR CONTOUR (5' INTERVAL)
81	81	MINOR CONTOUR (1' INTERVAL)
		EDGE OF GRAVEL
		EDGE OF ASPHALT
SAN	SAN	SANITARY SEWER MAIN
W	W	WATER LINE
ST	ST	STORM SEWER

EXISTING SYMBOLS	PROPOSED SYMBOLS	
(Tree symbol)	(Tree symbol)	CONIFEROUS TREE
(Circle with cross)	(Circle with cross)	CLEANOUT
(Square with cross)	(Square with cross)	TYPE 'C' INLET

(Hatched box)	ASPHALT PAVING - REFER TO SOILS REPORT FOR PAVING SECTION
(Dotted box)	CONCRETE PAVING

UTILITY NOTES

- IN GENERAL, THE SITE UTILITY CONSTRUCTION CONSISTS OF THE UPSIZING AND RELOCATION OF THE EXISTING 4" WATER MAIN TO A 6" WATER MAIN, INSTALLATION OF A DOMESTIC SERVICE AND A FIRE MAIN, INSTALLATION OF WASTEWATER SERVICES FOR EACH BUILDING AND CONSTRUCTION OF AN ONSITE WASTEWATER TREATMENT SYSTEM.
- ALL CONSTRUCTION OF THE WATER MAIN, FIRE MAIN AND WATER SERVICE SHALL BE IN COMPLIANCE WITH ALL REQUIREMENTS OF THE DONALA WATER & SANITATION DISTRICT.
- WATER MAIN REPLACEMENT WILL REQUIRE REMOVAL OF THE EXISTING 4" WATER MAIN AND SHALL BE IN COMPLIANCE WITH ALL REQUIREMENTS OF THE DONALA WATER & SANITATION DISTRICT. REMOVAL OF THE EXISTING WATER MAIN IN ACCORDANCE WITH THE APPROVED PLANS WILL REQUIRE A TEMPORARY WATER SERVICE PLAN TO MAINTAIN THE WATER SERVICE FOR THE OTHER PORTIONS OF THE FOX RUN PARK THAT ALSO UTILIZE THIS MAIN. IT IS ANTICIPATED THAT A PHASED REMOVAL AND REPLACEMENT WILL BE REQUIRED FOR THE WATER MAIN TO ALLOW FOR A TEMPORARY WATER PLAN AS EACH SEGMENT OF THE 4" MAIN IS REMOVED.
- THE PROPOSED 6" WATER MAIN FOLLOWS THE EXISTING MAIN ROUTE IN THE ROAD WITH THE EXCEPTION OF THE AREA WHERE IT IS ROUTED AROUND THE PROPOSED BUILDING. ALL WATER MAIN AND WATER SERVICE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST DONALA WATER & SANITATION DISTRICT STANDARDS AND SPECIFICATIONS.
- WATER SERVICES FOR THE FOX RUN NATURE CENTER INCLUDE A 1.5" (10 EQUIVALENT) HDPE DOMESTIC WATER SERVICE AND A 4" PVC FIRE MAIN AS SHOWN ON THE PLANS. METER AND BACKFLOW EQUIPMENT WILL BE LOCATED INSIDE THE BUILDING.
- A PROPOSED FIRE HYDRANT AND FIRE DEPARTMENT CONNECTION ARE LOCATED ON THE FRONT SIDE OF THE MAIN BUILDING.
- WASTEWATER SERVICES WILL LEAVE EACH PROPOSED BUILDING AS SHOWN ON THE PLANS. THE 4" PVC SERVICES WILL CONNECT TO THE PROPOSED SEPTIC SYSTEM AS SHOWN ON THE PLANS. SEE SEPTIC SYSTEM PLANS FOR ADDITIONAL DETAILS.
- AN ELECTRIC EQUIPMENT ENCLOSURE IS PROVIDED AT THE SOUTHEAST CORNER OF THE PROPOSED MAIN BUILDING. ELECTRIC SERVICE EXTENSION TO BE PROVIDED BY MOUNTAIN VIEW ELECTRIC.



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EL PASO COUNTY PARKS
FOX RUN NATURE CENTER
OFF-SITE WATER SYSTEM PLAN

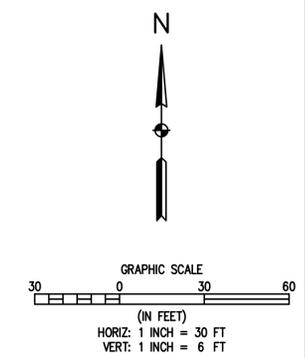
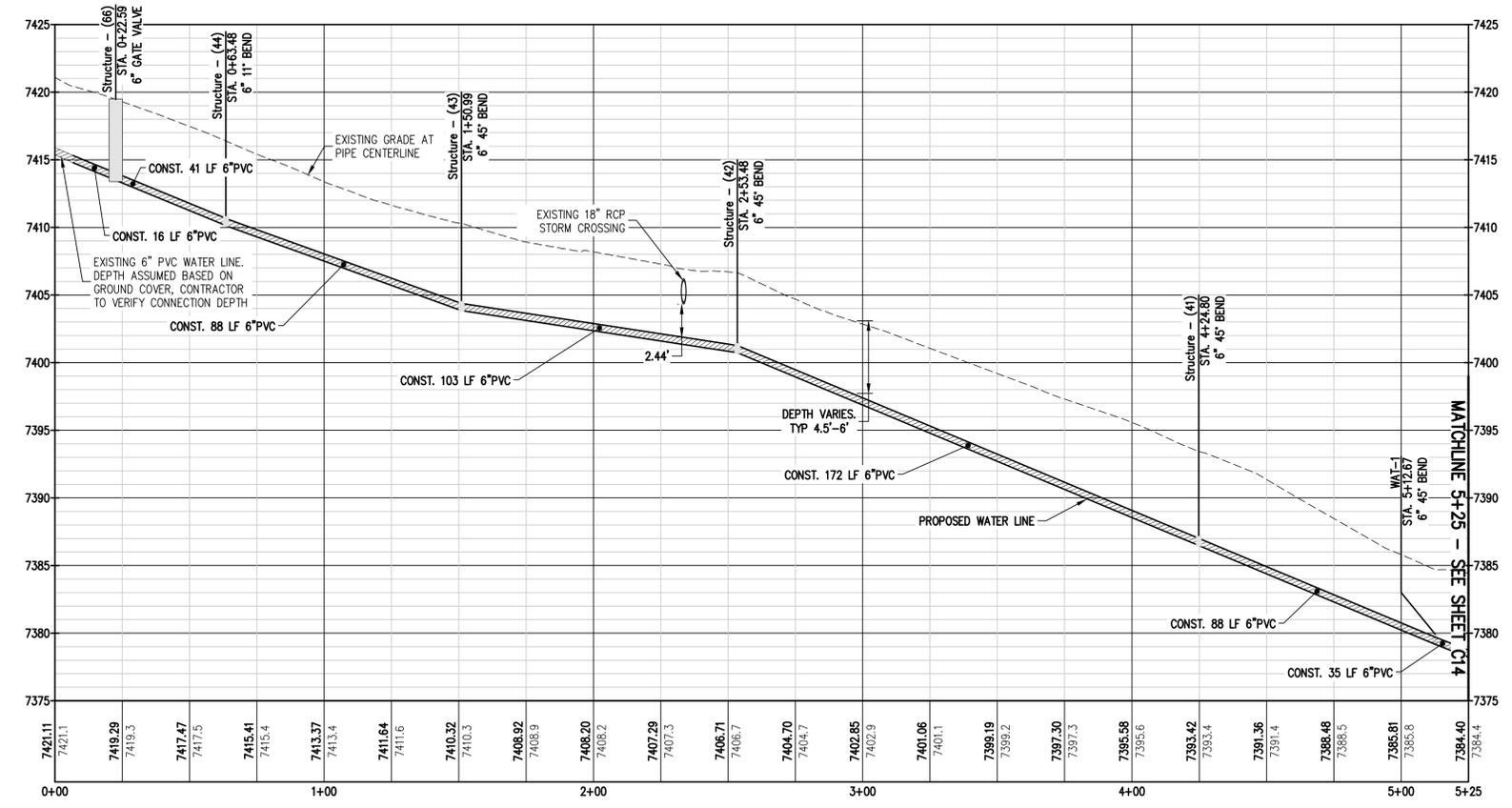
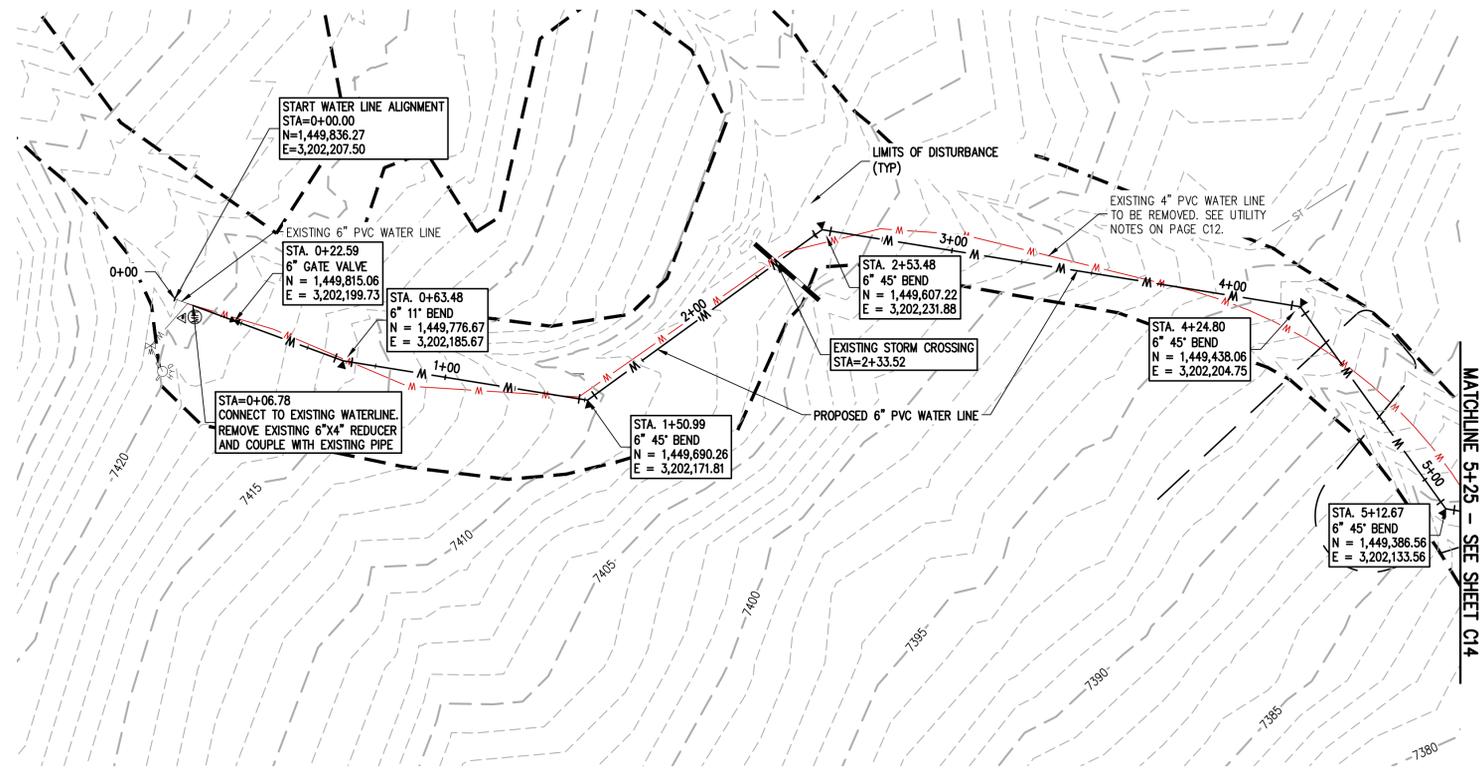
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PRELIMINARY NOT FOR CONSTRUCTION
FOR AND ON BEHALF OF
BASELINE CORPORATION
INITIAL SUBMITTAL: XX/XX/XX
DRAWING SIZE: 24" X 36"
SURVEY FIRM: BASELINE SURVEY DATE: 10/31/2023
JOB NO.: C035069
DRAWING NAME: 35069 Utility Plan.dwg
SHEET 13 OF 16
C13

LEGEND

EXISTING LINETYPES	PROPOSED LINETYPES	
---5280---	---5280---	MAJOR CONTOUR (5' INTERVAL)
---81---	---81---	MINOR CONTOUR (1' INTERVAL)
---	---	EDGE OF GRAVEL
---	---	EDGE OF ASPHALT
---SAN---	---SAN---	SANITARY SEWER MAIN
---W---	---W---	WATER LINE
---ST---	---ST---	STORM SEWER

EXISTING SYMBOLS	PROPOSED SYMBOLS	
		CONIFEROUS TREE
		CLEANOUT
		TYPE 'C' INLET

	ASPHALT PAVING - REFER TO SOILS REPORT FOR PAVING SECTION
	CONCRETE PAVING



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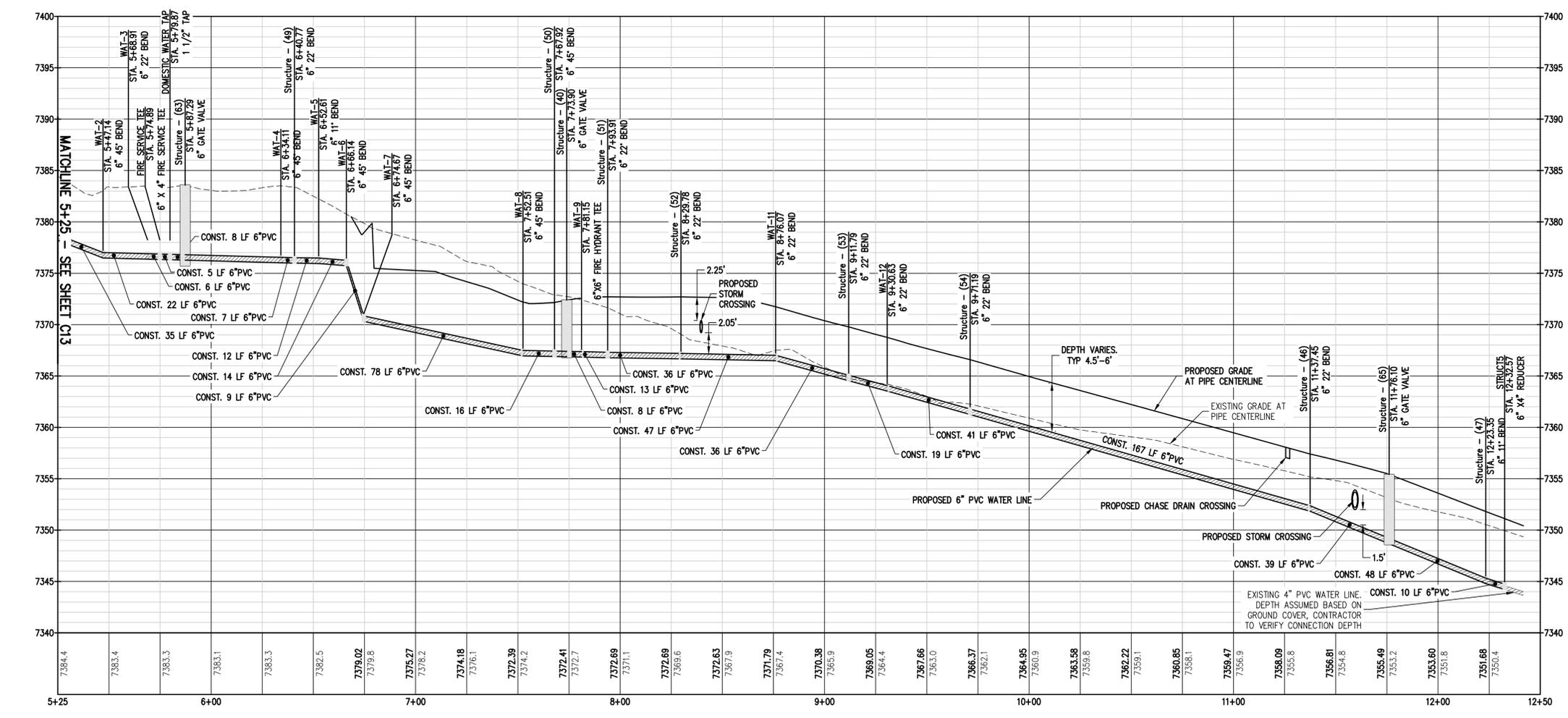
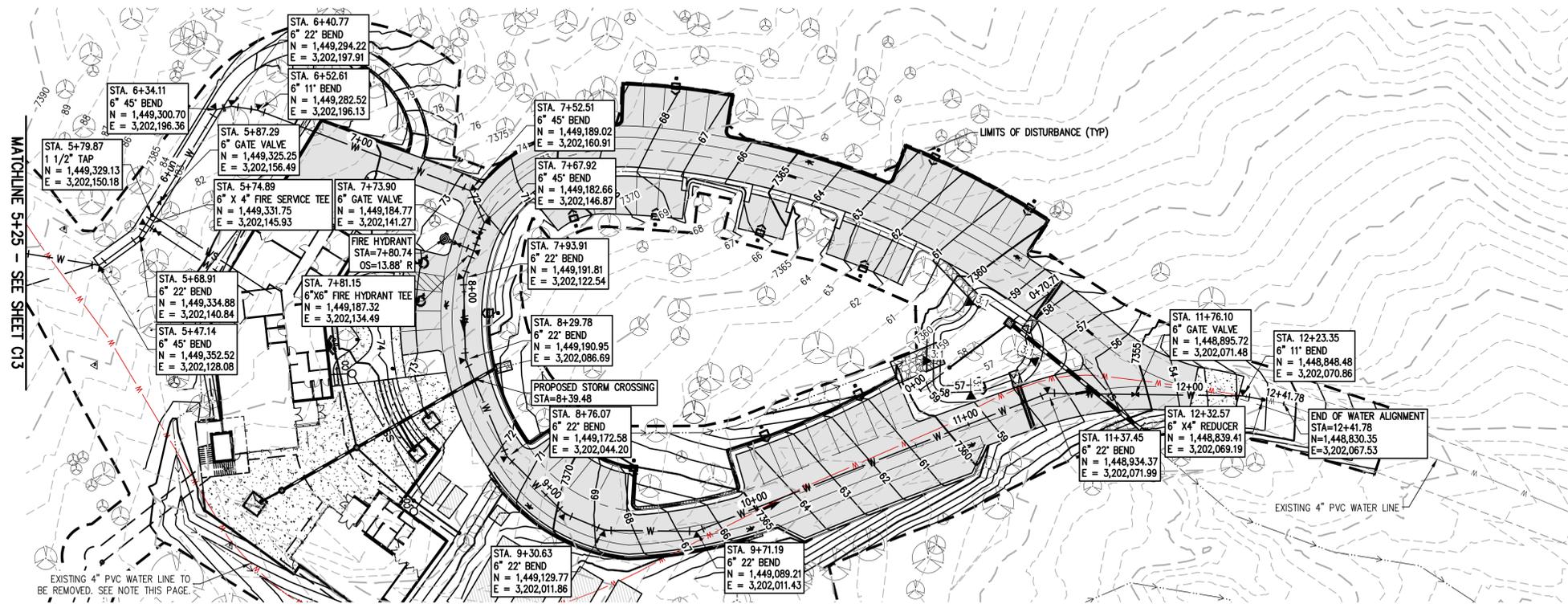
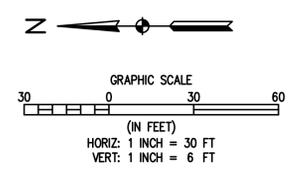
EL PASO COUNTY PARKS
FOX RUN NATURE CENTER
ON-SITE WATER SYSTEM PLAN

FOR AND ON BEHALF OF	BASELINE CORPORATION
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DRAWING SIZE	24" X 36"
SURVEY FIRM	BASELINE
SURVEY DATE	10/31/2023
JOB NO.	C035069
DRAWING NAME	35069 Utility Plan.dwg
SHEET	14 OF 16

LEGEND

EXISTING LINETYPES	PROPOSED LINETYPES	
--- 5280 ---	--- 5280 ---	MAJOR CONTOUR (5' INTERVAL)
--- 81 ---	--- 81 ---	MINOR CONTOUR (1' INTERVAL)
---	---	EDGE OF GRAVEL
---	---	EDGE OF ASPHALT
--- SAN ---	--- SAN ---	SANITARY SEWER MAIN
--- W ---	--- W ---	WATER LINE
--- ST ---	--- ST ---	STORM SEWER

EXISTING SYMBOLS	PROPOSED SYMBOLS	
⊗	⊗	CONIFEROUS TREE
○	○	CLEANOUT
■	■	TYPE 'C' INLET
▨	▨	ASPHALT PAVING - REFER TO SOILS REPORT FOR PAVING SECTION
▩	▩	CONCRETE PAVING



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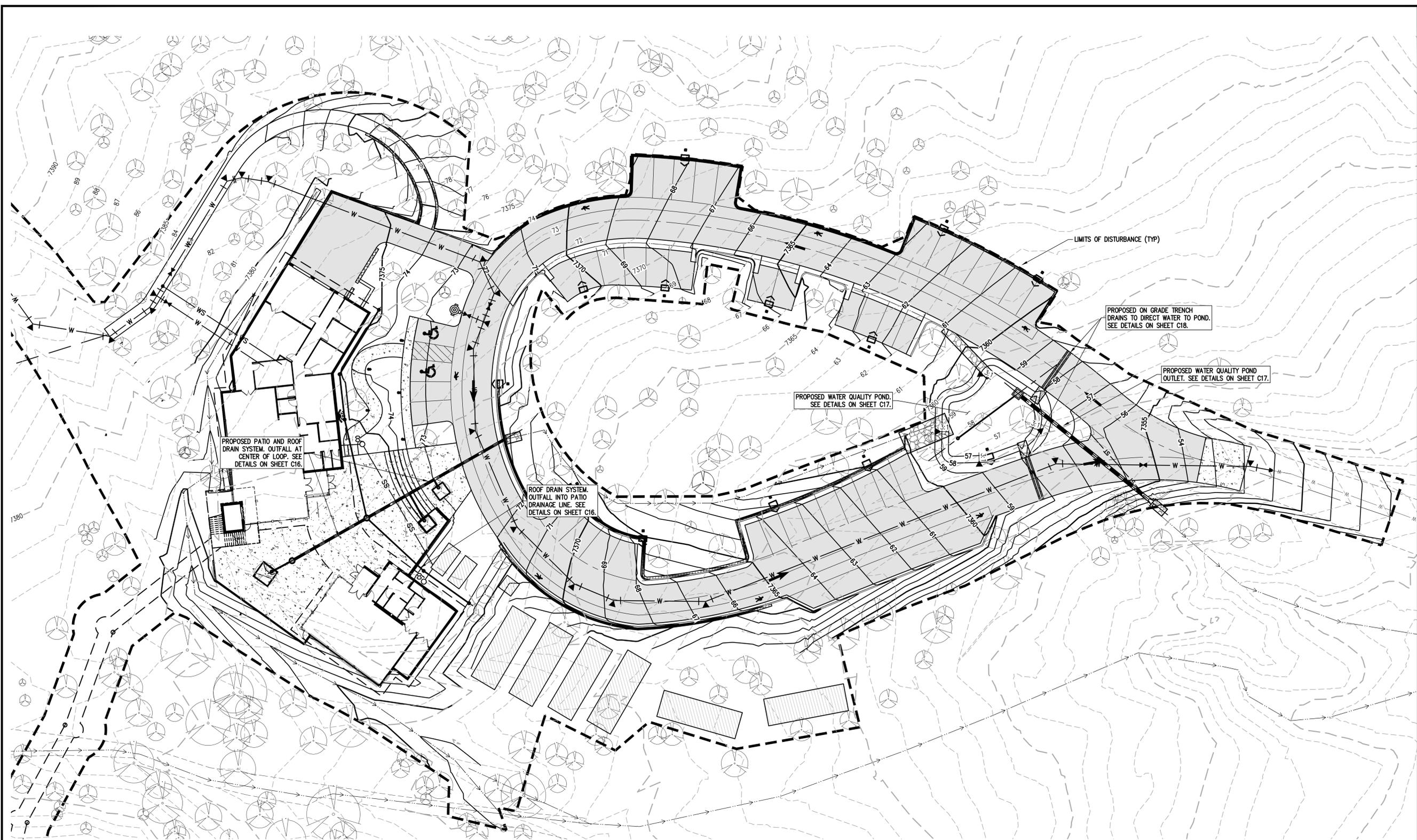
EL PASO COUNTY PARKS
FOX RUN NATURE CENTER
 OVERALL STORM SYSTEM PLAN

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 SHEET 15 OF 16



PROPOSED PATIO AND ROOF DRAIN SYSTEM. OUTFALL AT CENTER OF LOOP. SEE DETAILS ON SHEET C16.

ROOF DRAIN SYSTEM. OUTFALL INTO PATIO DRAINAGE LINE. SEE DETAILS ON SHEET C16.

PROPOSED WATER QUALITY POND. SEE DETAILS ON SHEET C17.

PROPOSED ON GRADE TRENCH DRAINS TO DIRECT WATER TO POND. SEE DETAILS ON SHEET C18.

PROPOSED WATER QUALITY POND OUTFALL. SEE DETAILS ON SHEET C17.

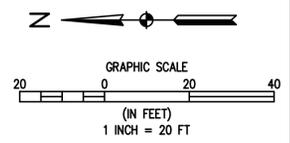
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EXISTING LINETYPES	PROPOSED LINETYPES	DESCRIPTION
--- 5280 ---	--- 5280 ---	MAJOR CONTOUR (5' INTERVAL)
--- 81 ---	--- 81 ---	MINOR CONTOUR (1' INTERVAL)
---	---	EDGE OF GRAVEL
---	---	EDGE OF ASPHALT
---	---	SANITARY SEWER MAIN
---	---	WATER LINE
---	---	STORM SEWER

EXISTING SYMBOLS	PROPOSED SYMBOLS	DESCRIPTION
⊗	⊗	CONIFEROUS TREE
○	○	CLEANOUT
■	■	TYPE 'C' INLET
■	■	ASPHALT PAVING - REFER TO SOILS REPORT FOR PAVING SECTION
■	■	CONCRETE PAVING

STORMWATER NOTES

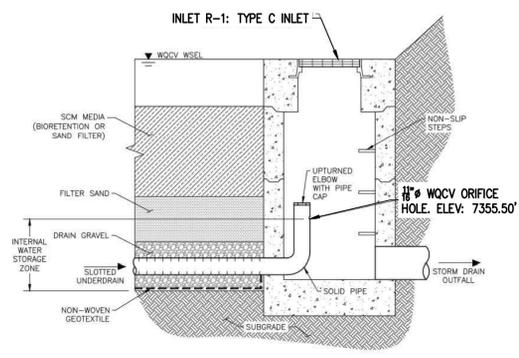
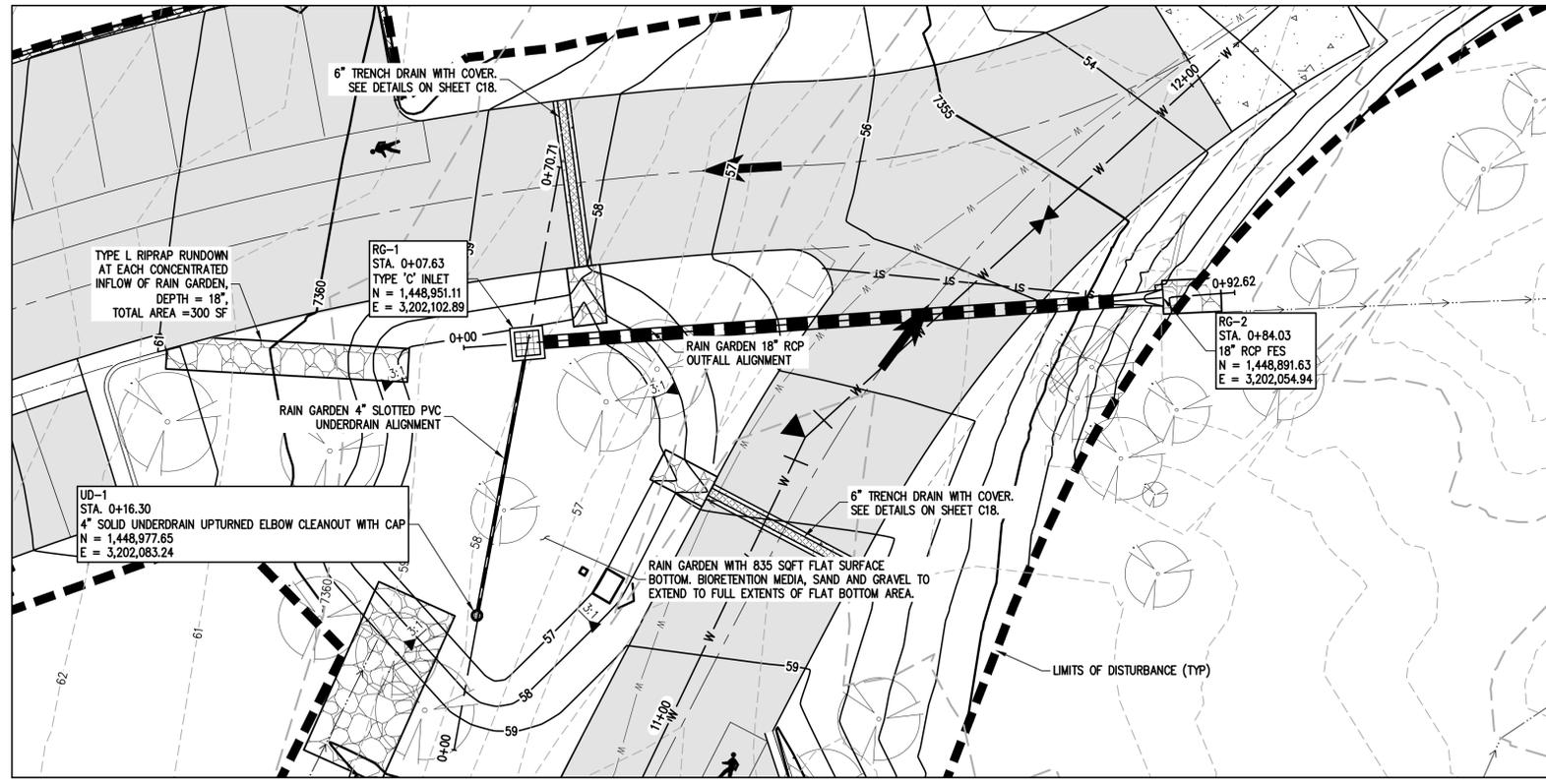
- STORMWATER FACILITIES TO BE CONSTRUCTED TO THE LINES AND GRADES INDICATED ON THE PLANS. IN GENERAL, THE STORMWATER FACILITIES INCLUDE A DIVERSION SWALE TO DIRECT OFFSITE RUNOFF AROUND THE PROPOSED BUILDING AND IMPROVEMENTS; STORM SEWER FACILITIES AS REQUIRED TO COLLECT RUNOFF FROM THE PLAZA AREA, ROOF DRAINS, TREE WELLS AND THE ACCESS ROAD/PARKING LOT; AND A WATER QUALITY FACILITY TO TREAT DEVELOPED RUNOFF.
- A DIVERSION SWALE WILL BE GRADED AS SHOWN ON THE PLANS TO DIVERT OFFSITE RUNOFF FROM THE NORTH AND NORTHWEST AROUND THE PROPOSED IMPROVEMENTS. SWALE DEPTH VARIES TO A MAXIMUM DEPTH OF 3.15 FEET +/- . SWALE SIDE SLOPE TO BE 4:1 AND WILL BE PROTECTED WITH AN EROSION BLANKET FOR ITS FULL SECTION AS VEGETATION IS RE-ESTABLISHED.
- STORM SEWER WILL BE CONSTRUCTED IN THE PLAZA AREA TO COLLECT RUNOFF FROM THE PLAZA, ROOF DRAINS AND TREE WELLS. STORM SEWER PIPING WILL BE HDPE PIPE OF THE SIZES INDICATED AND INSTALLED TO THE GRADES SHOWN ON THE PLANS. PLAZA INLETS WILL BE 24" DIAMETER AREA INLETS WITH PEDESTRIAN SAFE GRATES AND TREE WELL INLETS WILL BE 8" DIAMETER AREA INLETS. ROOF DRAINS WILL BE CONNECTED TO THE PLAZA DRAIN AS INDICATED ON THE PLANS. THE PLAZA STORM SEWER WILL OUTFALL INTO THE AREA INSIDE THE ACCESS ROAD LOOP. A RIPRAP PAD WILL PROTECT THE OUTFALL AND THE NATURAL CONTOURS WILL DIRECT THE RUNOFF TO THE WATER QUALITY FACILITY.
- TRENCH DRAINS WILL BE CONSTRUCTED ACROSS THE ACCESS ROAD ON EACH SIDE OF THE WATER QUALITY FACILITY TO DIRECT ROAD RUNOFF INTO THE FACILITY.
- THE WATER QUALITY FACILITY WILL BE A RAIN GARDEN FACILITY THAT INCLUDES A GROWING MEDIUM WITH A 4" DIAMETER SLOTTED UNDERDRAIN, TYPE C OUTFALL STRUCTURE AND AN 18" RCP OUTFALL PIPE. ROCK RIPRAP RUNDOWNS ARE TO BE CONSTRUCTED TO DIRECT ROADWAY RUNOFF INTO THE WATER QUALITY FACILITY. CONSTRUCT WATER QUALITY FACILITY PER APPROVED PLANS AND PER PERTINENT EL PASO COUNTY CRITERIA.
- ALL STORMWATER CONSTRUCTION TO BE IN ACCORDANCE WITH THE APPROVED DRAINAGE REPORT AND EL PASO COUNTY ENGINEERING CRITERIA MANUAL UNLESS OTHERWISE NOTED.
- REVEGETATION OF THE WATER QUALITY FACILITY TO BE IN ACCORDANCE WITH RAIN GARDEN REQUIREMENTS AND THE APPROVED LANDSCAPE PLANS.



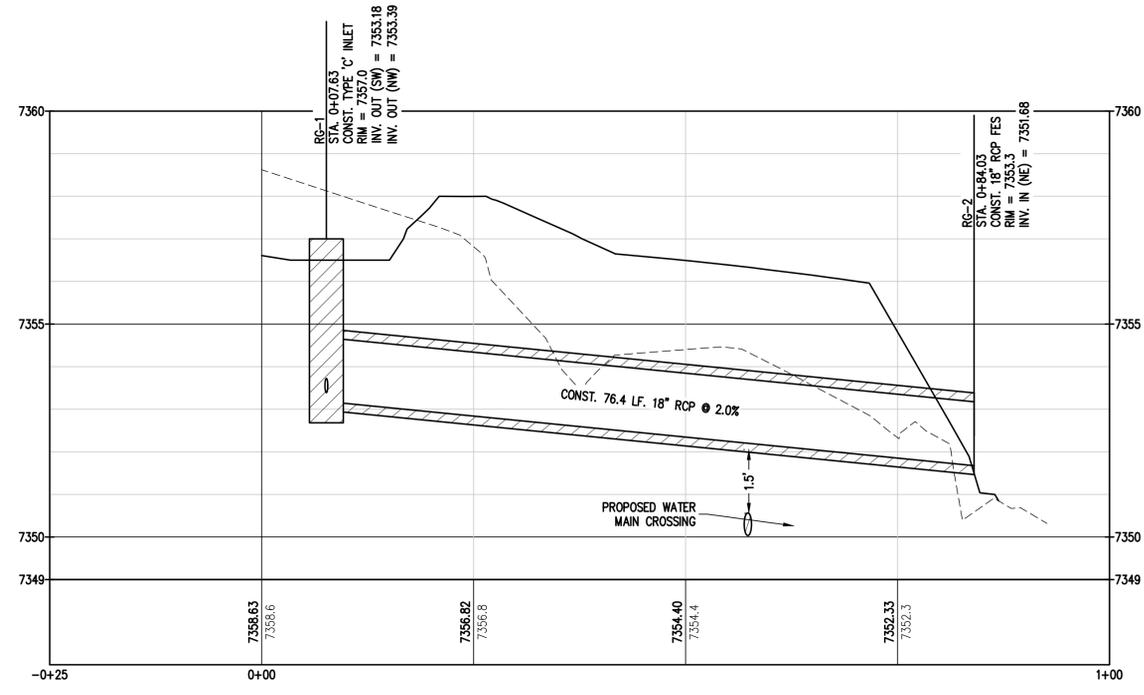
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REVISION DESCRIPTION	

EL PASO COUNTY PARKS
FOX RUN NATURE CENTER
POND PLAN AND PROFILE
EL PASO COUNTY

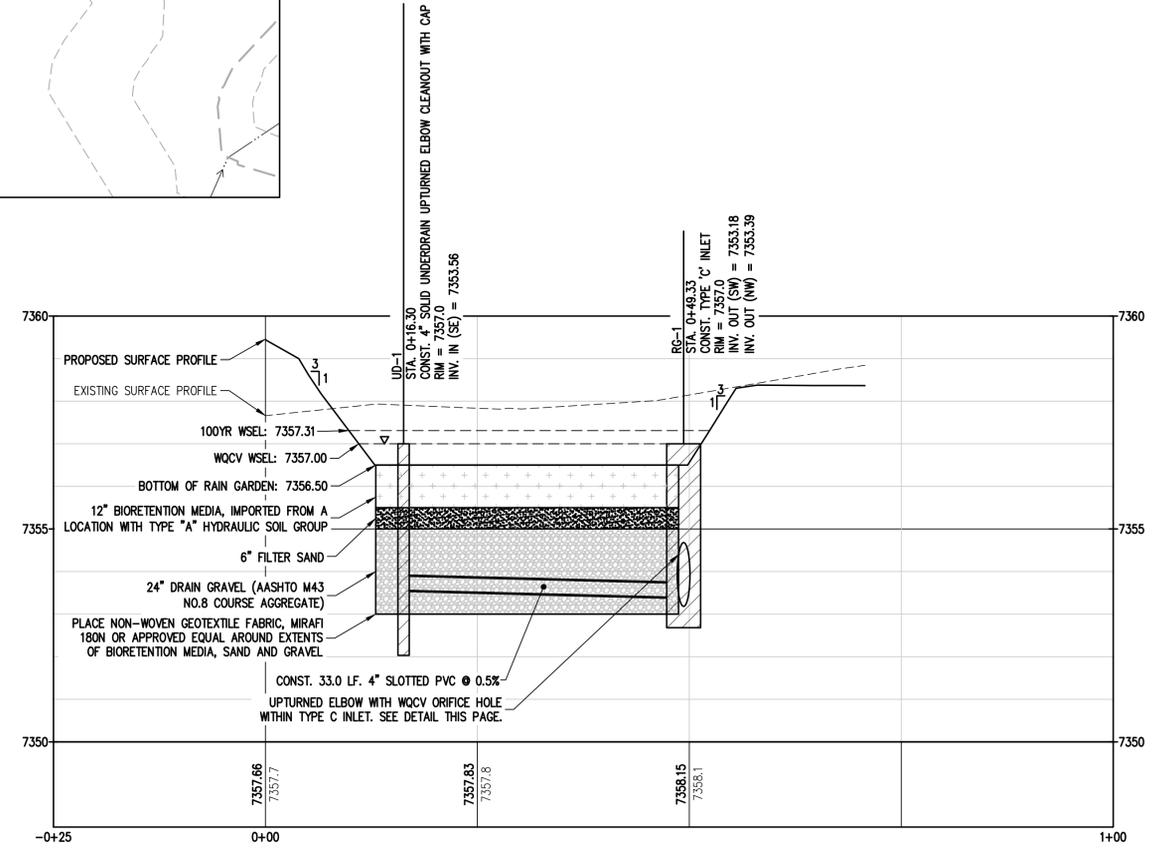
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SURVEY FIRM SURVEY DATE
BASELINE 10/31/2023
JOB NO. C035069
DRAWING NAME
35069 Utility Plan.dwg
SHEET 17 OF 16
C17



RAIN GARDEN INLET WITH UPTURNED ELBOW



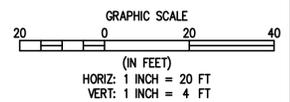
RAIN GARDEN 18" RCP OUTFALL PROFILE

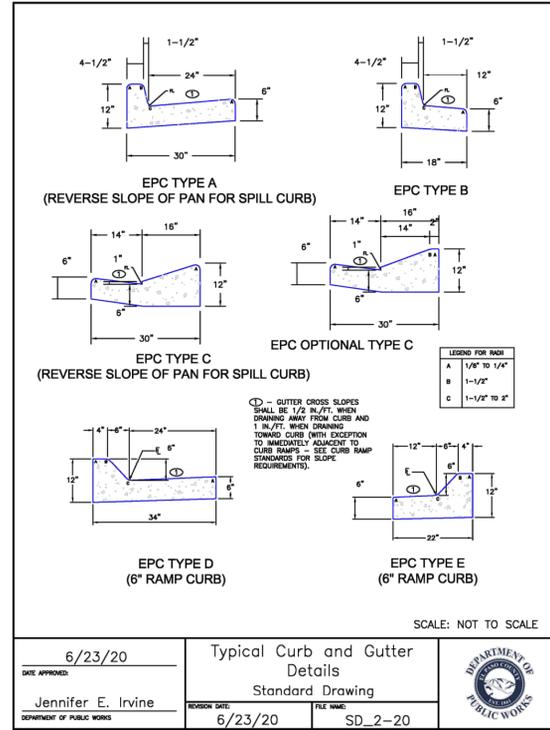


RAIN GARDEN 4" SLOTTED PVC UNDERDRAIN PROFILE

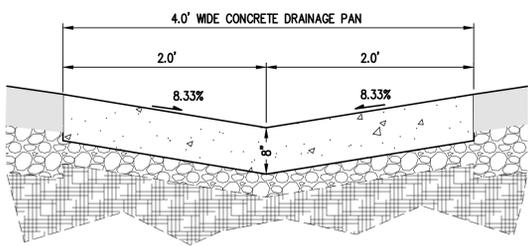
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EXISTING LINETYPES	PROPOSED LINETYPES	EXISTING SYMBOLS	PROPOSED SYMBOLS	DESCRIPTION
---	---	---	---	MAJOR CONTOUR (5' INTERVAL)
---	---	---	---	MINOR CONTOUR (1' INTERVAL)
---	---	---	---	EDGE OF GRAVEL
---	---	---	---	EDGE OF ASPHALT
---	---	---	---	SANITARY SEWER MAIN
---	---	---	---	WATER LINE
---	---	---	---	STORM SEWER
---	---	---	---	CONIFEROUS TREE
---	---	---	---	CLEANOUT
---	---	---	---	TYPE 'C' INLET
---	---	---	---	ASPHALT PAVING - REFER TO SOILS REPORT FOR PAVING SECTION
---	---	---	---	CONCRETE PAVING

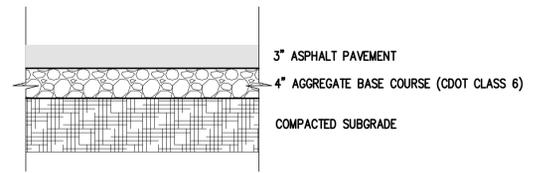




DATE APPROVED: 6/23/20	DESIGNER: Jennifer E. Irvine	REVISION DATE: 6/23/20	FILE NAME: SD_2-20
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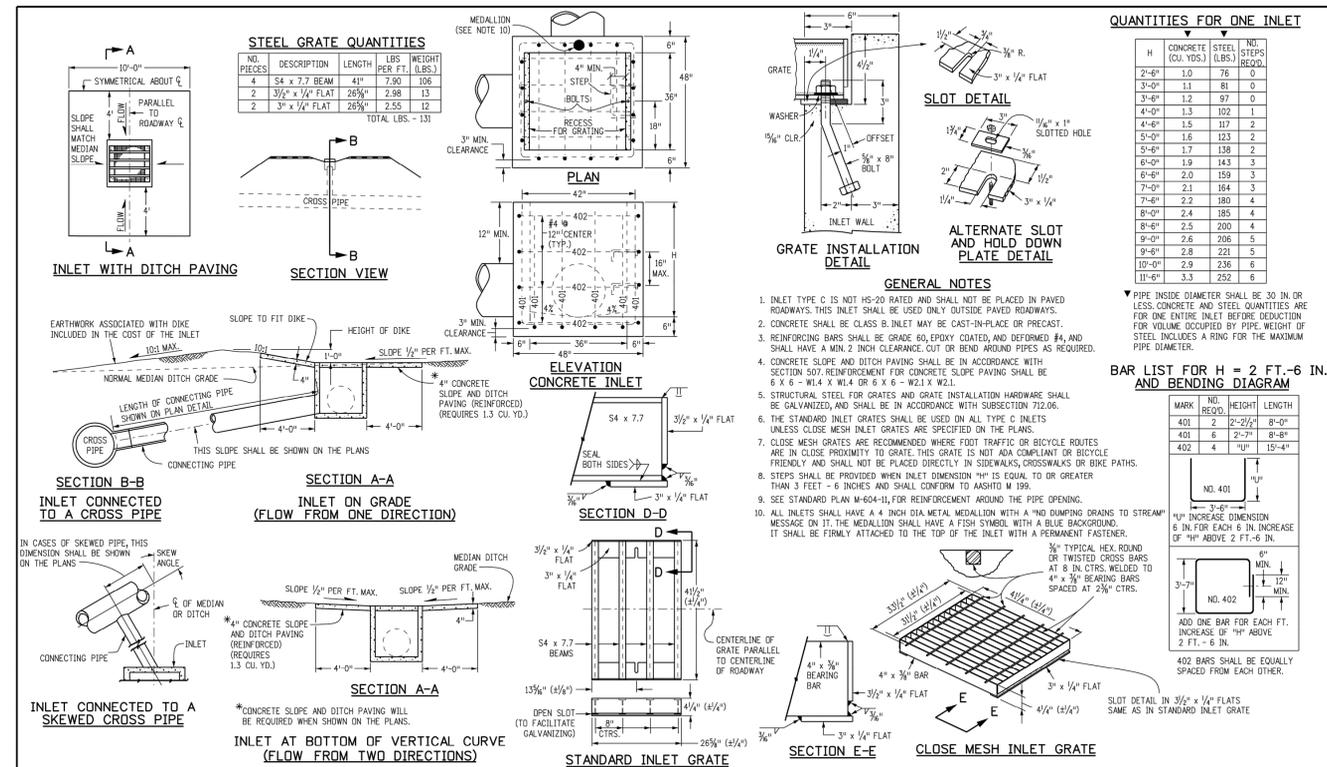


CONCRETE PAN SECTION

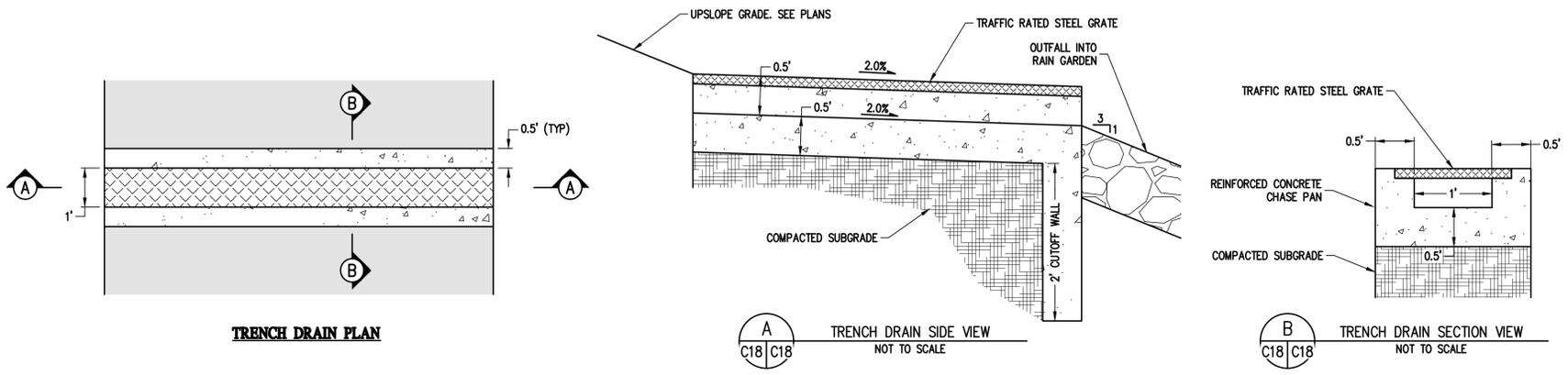


ASPHALT PAVEMENT SECTION

NOTE:
ASPHALT SECTION SHOWN BASED ON TABLE D-2- MINIMUM PAVEMENT SECTIONS IN EL PASO COUNTY ENGINEERING CRITERIA MANUAL FOR LOCAL ROADS. FINAL PAVEMENT SECTION TO BE DETERMINED BY GEOTECHNICAL ENGINEER IN PAVEMENT DESIGN REPORT.



Computer File Information	Sheet Revisions	Colorado Department of Transportation	STANDARD PLAN NO.
Creation Date: 07/31/19	Date: _____	2829 West Howard Place	M-604-10
Designer Initials: JBK	Comments: _____	CDOT HQ, 3rd Floor	Standard Sheet No. 1 of 1
Last Modification Date: 07/31/19	_____	Denver, CO 80204	
Detailer Initials: LTA	_____	Phone: 303-757-9021 FAX: 303-757-9868	
CAD Ver: MicroStation V8 Scale: Not to Scale Units: English	_____	Project Development Branch	Project Sheet Number: _____



ROADWAY TRENCH DRAIN

DESIGNED BY: A/JL	DATE: 06/26/2024
DRAWN BY: A/JL	PREPARED BY: 60 % DESIGN SET
CHECKED BY: SGB	REVISION DESCRIPTION

EL PASO COUNTY PARKS
EL PASO COUNTY
FOX RUN NATURE CENTER
DETAILS

PREPARED UNDER THE DIRECT SUPERVISION OF
PRELIMINARY NOT FOR CONSTRUCTION
FOR AND ON BEHALF OF BASELINE CORPORATION
INITIAL SUBMITTAL: XX/XX/XX
DRAWING SIZE: 24" x 36"
SURVEY FIRM: SURVEY DATE: 10/31/2023
JOB NO.: C035069
DRAWING NAME: 35069 Details.dwg
SHEET 18 OF 16
C18

NOTES:

Site conditions require a designed septic system. We recommend a septic tank and pressurized absorption field system. A pumping chamber with control panel will be required.

DESIGN CRITERIA:

El Paso County Health Department: Onsite Wastewater Treatment System (OWTS) Regulations Dated May 23, 2018 effective July 7, 2018.

PROFILE PITS:

Six test pit excavation were observed by Entech Engineering, Inc. The results of those observations are included in a OWTS Site Evaluation dated November 17, 2023, Revised March 8, 2024, Entech Job No. 231597. A Long Term Acceptance Rate (LTAR) value of 0.35 gallons per square foot per day was recommended for Treatment Level 1, Soil Type 3. A Maximum Long Term Acceptance Rate (LTAR) value of 0.80 gallons per square foot per day was recommended for Treatment Level 3, with a 3'-0" Sand Filter provided the sand clay loam is fully penetrated. Bedrock was not encountered in the test pits. Redoximorphic Features were not encountered in the test pits.

DESIGN DATA - Pike's Peak Maintenance Building:

5 Full Time Employees @ 15 Gallons Per Day Per Person = 75 Gallons Per Day (GPD)
385 Short Term Visitors @ 5 Gallons Per Day Per Person = 1,925 Gallons Per Day (GPD)
390 Person Occupancy Load = 2,000 Gallons Per Day (GPD)

DESIGN FLOW:

2,000 GPD

SOIL TYPE:

Type 1, R-0, Maximum LTAR of 0.80 with Minimum 3'-0" Sand Filter, Treatment Level 3

SEPTIC TANK:

The septic tank capacity should be a minimum of 4,000 gallons (suitable for 2,000 GPD flow rate). The septic tank shall comply with El Paso County Health Department regulations. The tank should be checked periodically and pumped as needed. Risers for tank shall also be traffic rated.

TRAFFIC RATED PUMPING CHAMBER:

A Lindsay Pre-Cast or similar pumping chamber with a minimum capacity of 1,000 gallons shall be sealed at all joints and shall be coated with a suitable asphaltic waterproofing. A pump with a high water alarm shall be installed in the pumping chamber. The pumping chamber shall comply with El Paso County Health Department regulations. Periodic monitoring of water usage is recommended to adjust dosing to 5 to 6 doses per day, with a 330 gallon minimum dose. Install check valve / air release valve to permit line to drain to pumping tank or to field.

INSTALLATION OBSERVATION:

The installation of the septic system shall be observed to check compliance with the design. Recommended observations include:

- 1) A meeting with Entech, builder, homeowner, and the installer to stake the field locations.
- 2) Site observation during and after each bed is excavated (BEFORE SAND PLACEMENT).
- 3) Site observation of pipe installation, distribution valves and manifold assembly, pumping chamber, and verify that the stand pipes have been installed;
- 4) final site observation including soil cover over the bed.

PRE-CONSTRUCTION MEETING:

Contractor should contact Entech Engineering, Inc. to discuss installation and scheduling of recommended observations. A site meeting with an engineer from Entech Engineering, Inc., a El Paso County Health Officer and the OWTS contractor is required prior to excavation or installation of the field. The absorption field location will be finalized by the pre-construction meeting. The installed system minimum horizontal distances must be maintained from pertinent physical features according to El Paso County Health Department Regulations.

WATER

Any well must be located a minimum of 100 feet away from the soil treatment area. The soil treatment area shall be 25 feet from any drainage.



VICINITY MAP
SCALE: N.T.S.



MODIFICATIONS TO THIS DESIGN MAY BE REQUIRED, TO BE DETERMINED AT THE TIME OF SITE OBSERVATIONS.

PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS	BY:

ENTECH ENGINEERING, INC.
505 ELKTON DRIVE
COLORADO SPRINGS, CO. 80907 (719) 531-5599

ON-SITE WASTEWATER TREATMENT SYSTEM
2110 STELLA DRIVE
EL PASO COUNTY, COLORADO
FOR: TREMMEL DESIGN GROUP

DRAWN BY: R. JAQUET
DESIGNED BY: R. JAQUET
CHECKED BY: R. JAQUET
DATE: 3/8/2024
SCALE: AS SHOWN
JOB NO.: 231597
SHEET NO.: 1 OF 4

CALCULATIONS

390 PERSONS

LTAR (0.80) 3'-0" SAND FILTER

BASIC REQUIRED AREA

$$A = \frac{Q}{LTAR}$$

FOR BED SYSTEM (CHAMBERS)

Q = 2,000 GPD
0.80 - SAND FILTER, TREATMENT LEVEL 1 (LTAR)
10 - BED (PRESSURE DISTRIBUTION)
10 - SIZE ADJUSTMENT FACTOR (CHAMBERS)

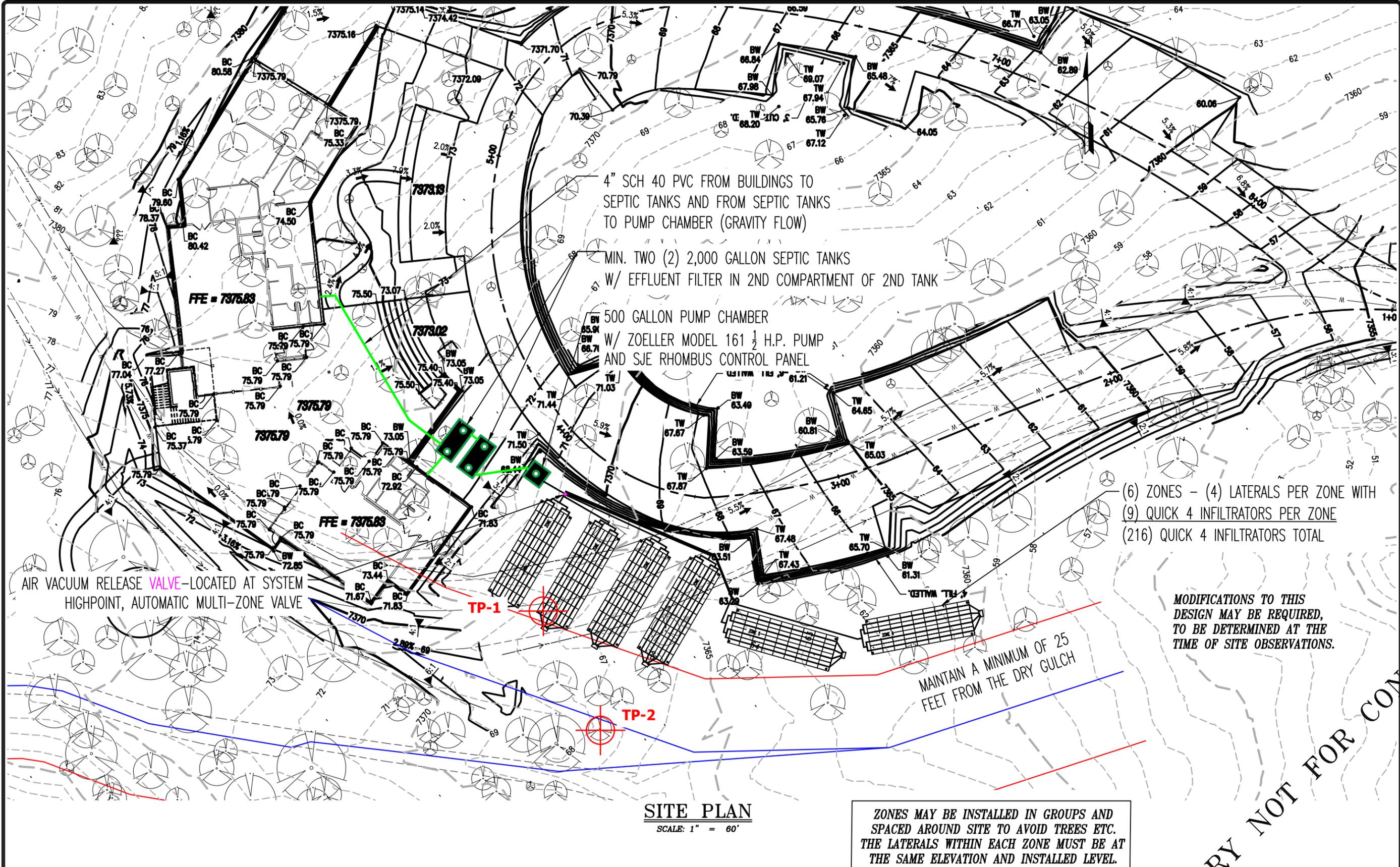
$$A = \frac{(2,000)(10)(10)}{0.80}$$

A = 2,500 SF **USE 2,592 SF**

QUICK 4 = $\frac{2,592}{12} = 216$ **USE 216**

TOTAL - 216 QUICK 4 INFILTRATORS

(6) BEDS WITH (4) ROWS OF 9 INFILTRATORS FOR TOTAL OF 216 INFILTRATORS



SITE PLAN
SCALE: 1" = 60'

ZONES MAY BE INSTALLED IN GROUPS AND SPACED AROUND SITE TO AVOID TREES ETC. THE LATERALS WITHIN EACH ZONE MUST BE AT THE SAME ELEVATION AND INSTALLED LEVEL.

NOTE: BUILDERS/OWNERS SHOULD REVIEW THEIR COVENANTS TO VERIFY IF THERE ARE SETBACK OR LAND-CLEARING RESTRICTIONS THAT MIGHT AFFECT SYSTEM INSTALLATION, PRIOR TO CONSTRUCTION.

NOTE: THE CONFIGURATION OF THE BED SYSTEM CAN BE ALTERED TO ACCOMMODATE SITE SPECIFIC CONDITIONS AS APPROVED BY ENTECH

NOTE: LOCATE VALVE BOX AT THE "HIGH POINT" IN THE SYSTEM AND PROVIDE AIR RELEASE VALVE.

NOTE: ENGINEER TO REVIEW PROPOSED LAYOUT PRIOR TO CONSTRUCTION W/ OWNER & INSTALLER.

THE MAXIMUM SOIL COVER OVER THE TOP OF A SEPTIC TANK IS 48" UNLESS OTHERWISE APPROVED BY EL PASO COUNTY

ORIENTATION APPROXIMATE; COORDINATE EXACT LOCATION & ORIENTATION WITH ENGINEER ON-SITE, PRIOR TO CLEARING & CONSTRUCTION.

REVISIONS	BY:

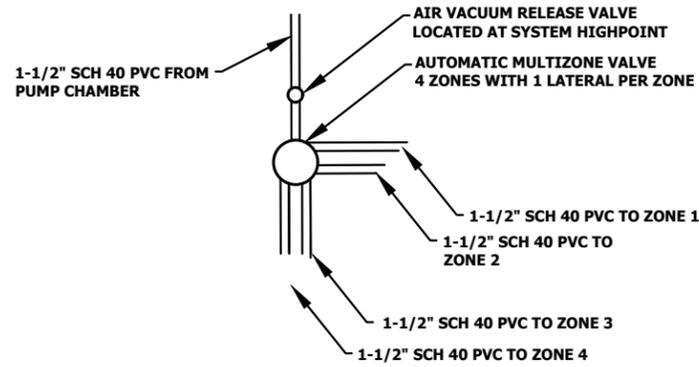
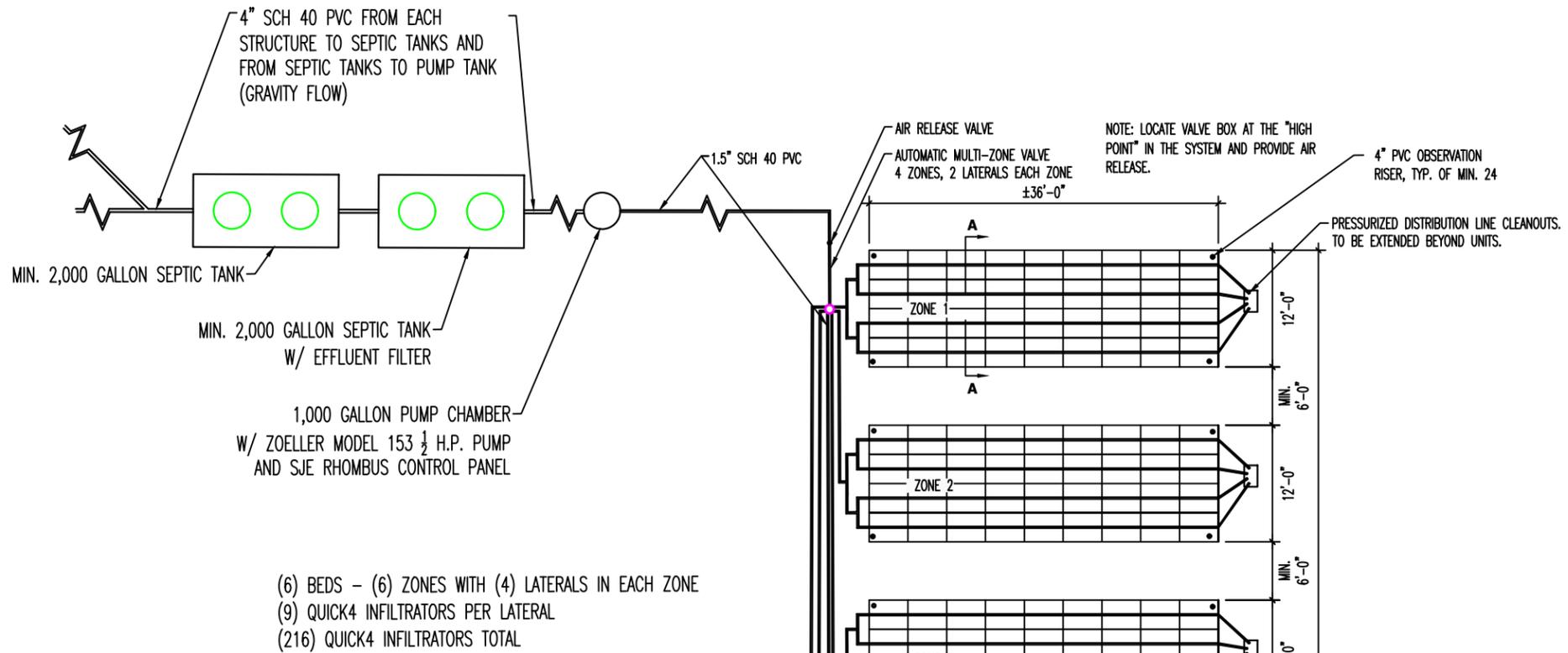
ENTECH ENGINEERING, INC.
505 ELKTON DRIVE
COLORADO SPRINGS, CO. 80907
(719) 531-5599

ON-SITE WASTEWATER TREATMENT SYSTEM
2110 STEELX DRIVE
EL PASO COUNTY, COLORADO
FOR: TREMMEL DESIGN GROUP

DRAWN BY: R. JAQUET
DESIGNED BY: R. JAQUET
CHECKED BY: R. JAQUET
DATE: 3/8/2024
SCALE: AS SHOWN
JOB NO.: 231597
SHEET NO.: 2 OF 4

PRELIMINARY NOT FOR CONSTRUCTION

ZONES MAY BE INSTALLED IN GROUPS AND SPACED AROUND SITE TO AVOID TREES ETC. THE LATERALS WITHIN EACH ZONE MUST BE AT THE SAME ELEVATION AND INSTALLED LEVEL.



MULTIZONE DETAIL

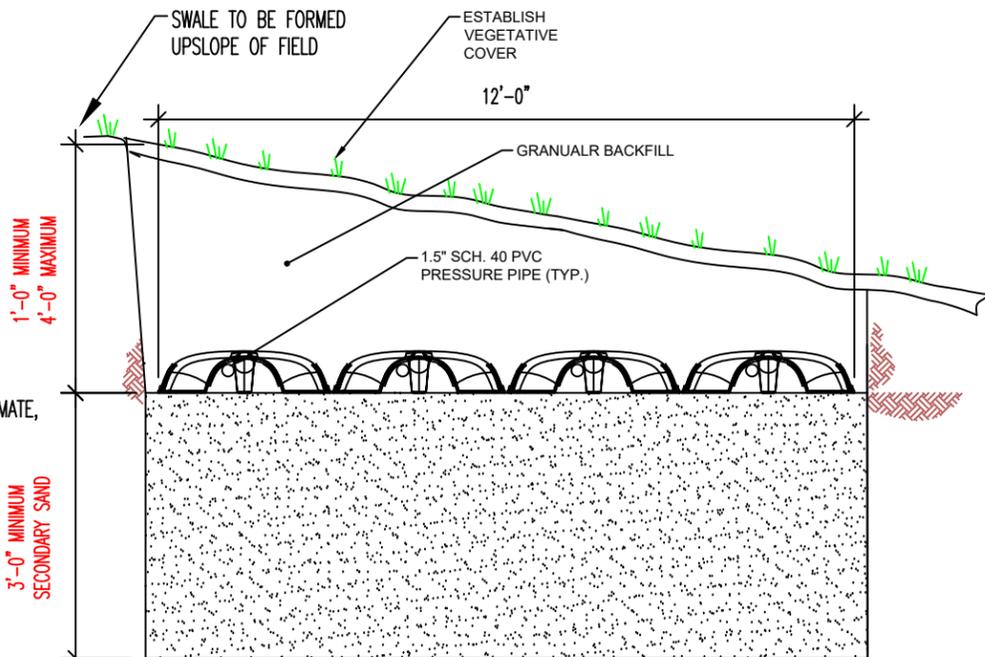
SCALE: NOT TO SCALE

"Secondary" sand media requirements:
Effective size: 0.15-0.60 mm
Uniformity coefficient: ≤7.0
Percent fines passing #200 sieve: ≤ 3.0

Sieve	% Passing
# 3/8	100
# 4	95-100
# 8	85-100
# 16	50-85
# 30	25-60
# 50	10-30
# 100	Less than 8
# 200	Less than OR equal to 3

NOTE: EXCAVATION DEPTH IS APPROXIMATE, FIELD DETERMINE

12" MINIMUM COVER OVER LOW PROFILE ARC36 INFILTRATORS



SECTION A-A

SOIL TYPE: SOIL REPLACEMENT, R-0 GRAVELLY LOAMY SAND
3'-0" SECONDARY SAND FILTER (MAXIMUM LTAR = 0.80)

MODIFICATIONS TO THIS DESIGN MAY BE REQUIRED, TO BE DETERMINED AT THE TIME OF SITE OBSERVATIONS.

ABSORPTION FIELD LAYOUT

SCALE: NOT TO SCALE

REVISIONS	BY:

ENTECH ENGINEERING, INC.
505 ELKTON DRIVE
COLORADO SPRINGS, CO. 80907 (719) 531-5599

ON-SITE WASTEWATER TREATMENT SYSTEM
2110 STELLA DRIVE
EL PASO COUNTY, COLORADO
FOR: TREMMEL DESIGN GROUP

DRAWN BY: R. JAQUET
DESIGNED BY: R. JAQUET
CHECKED BY: R. JAQUET
DATE: 3/8/2024
SCALE: AS SHOWN
JOB NO.: 231597
SHEET NO.: 3 OF 4 SHEETS

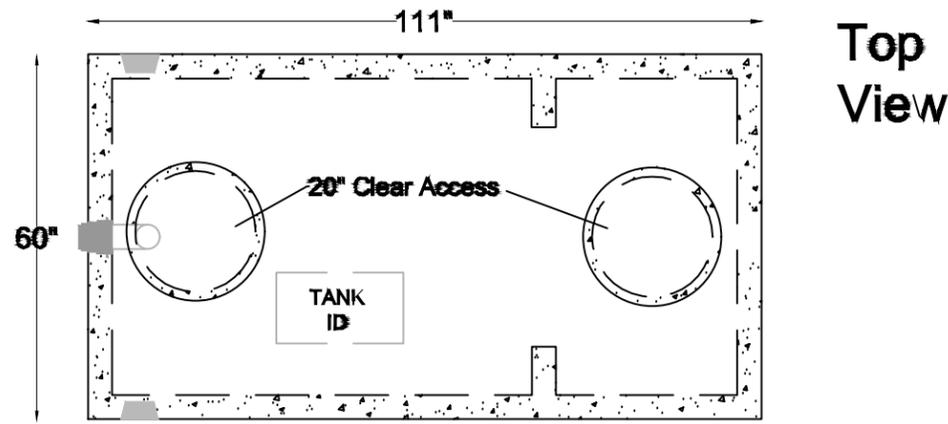
PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS	BY:

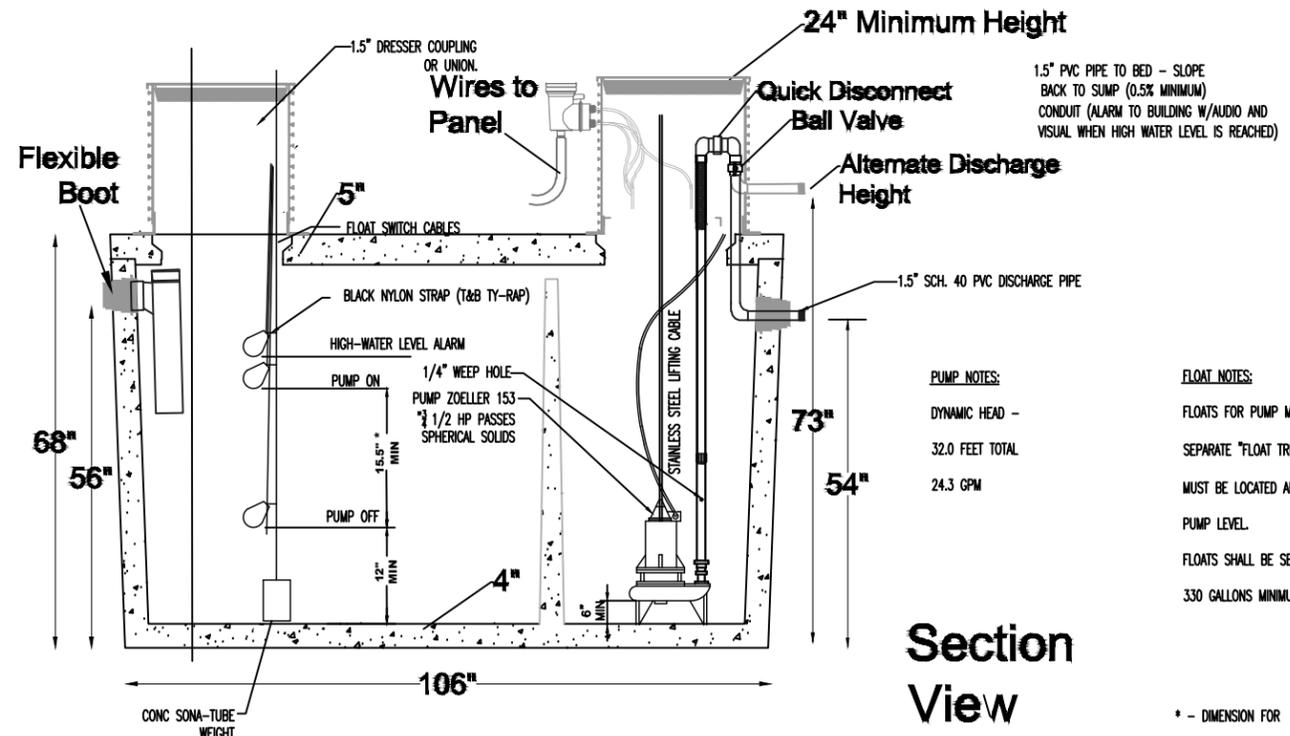
ENTECH
ENGINEERING, INC.
505 ELKTON DRIVE
COLORADO SPRINGS, CO. 80907 (719) 531-5599

ON-SITE WASTEWATER TREATMENT SYSTEM
2110 STEINBOCK DRIVE
EL PASO COUNTY, COLORADO
FOR: TREMMEL DESIGN GROUP

DRAWN BY: R. JAQUET
DESIGNED BY: R. JAQUET
CHECKED BY: R. JAQUET
DATE: 3/8/2024
SCALE: AS SHOWN
JOB NO.: 231597
SHEET NO.: 4 OF 4



Top View



Section View

1.5" PVC PIPE TO BED - SLOPE BACK TO SUMP (0.5% MINIMUM) CONDUIT (ALARM TO BUILDING W/AUDIO AND VISUAL WHEN HIGH WATER LEVEL IS REACHED)

PUMP NOTES:
DYNAMIC HEAD - 32.0 FEET TOTAL
24.3 GPM

FLOAT NOTES:
FLOATS FOR PUMP MUST BE ON A SEPARATE "FLOAT TREE." OFF-FLOAT MUST BE LOCATED ABOVE THE PUMP LEVEL.
FLOATS SHALL BE SET TO ACHIEVE 330 GALLONS MINIMUM DOSE.

* - DIMENSION FOR 1,000 GALLON RECTANGULAR PUMP CHAMBER (111" X 60")

1,000 GALLON PUMP CHAMBER
SCALE: N.T.S.

* - 15.5" SEPARATION ASSUMES VALLEY PRE-CAST, ONE COMPARTMENT TANK DIMENSION WILL CHANGE DEPENDING UPON ACTUAL TANK DIMENSIONS.

MODIFICATIONS TO THIS DESIGN MAY BE REQUIRED, TO BE DETERMINED AT THE TIME OF SITE OBSERVATIONS.

PRELIMINARY NOT FOR CONSTRUCTION