

El Paso County
Engineering Development Review Team
2880 International Circle
Colorado Springs, CO 80910

February 2026

RE: Circle K at Hwy 24 & Meridian: PCM Certification Letter

Dear Sir or Madam,

Based on visual observation, the site and adjacent properties (as affected by work performed under the County permit) are stable with respect to settlement and subsidence, sloughing of cut and fill slopes, revegetation and other ground cover. The improvements (public improvements, common development improvements, site grading and paving) meet or exceed the minimum design requirements.

This letter certifies substantial compliance for dimensions, elevations and volumes of the Circle K at Highway 24 & Meridian Detention Pond. This certification letter is to confirm the full spectrum detention basins substantially comply with the approved plan documents and Final Drainage Report (FDR: Approved January 2023).

As-built survey of the pond by a third-party Professional Land Surveyor and a detention pond site walkthrough indicate that the pond volume, trickle channel, forebay, emergency spillway and outlet structure, as constructed and surveyed, are in conformance with the construction plans.

Caveats: Because the certifier was not involved with construction administration of the pond, the compaction of earthwork in the pond embankment, placement of buried rip rap in the emergency spillway, and/or any other items not specifically mentioned are not certified in this letter. Submittal reviews during the construction phase of the project indicate that the appropriate material submittals were made, but do not certify that these actual materials were placed or whether appropriate means of storage were utilized prior to installation.

From the Colorado Springs/El Paso County Pond certification checklist ("Yes" indicates substantial compliance):

Grading

- Grading and Slopes Completed per approved plans Yes

Soil Mixes

- Proper storage of soil mix prior to placement (*see above*) N/A
- Soil Mix Correct per approved plans (*See above*) N/A

Forebay

- Built per approved plans Yes
- Forebay Volume per approved plans Yes

Outlet Works

- Built per approved plans Yes

Spillway structure

- Built per approved plans Yes

WQCV and Elevations

- WQCV per approved plans Yes
- All elevations per approved plans Yes

As built Plans for Permanent BMP

- Built per approved plans Yes

If there are any questions regarding this certification, please feel free to contact me by phone: 719-575-0100 or email: luke.bonner@matrixdesigngroup.com.

Thank you,

A handwritten signature in blue ink that reads "Luke Bonner".

Luke Bonner, PE #63474
Project Manager
Matrix Design Group



BENCHMARK:

SITE BM NO. 1: CENTER OF SANITARY SEWER MANHOLE LOCATED 242 FEET SOUTH OF THE SOUTH EDGE OF ASPHALT OF HIGHWAY 24 AND 9 FEET EAST OF THE EAST EDGE OF ASPHALT OF OLD MERIDIAN ROAD NAVD88 DATUM ELEVATION 6825.51.

SITE BM NO. 2: CENTER OF SANITARY SEWER MANHOLE LOCATED 861 FEET SOUTH OF THE SOUTH EDGE OF ASPHALT OF HIGHWAY 24 AND 3 FEET EAST OF THE EAST EDGE OF ASPHALT OF OLD MERIDIAN ROAD NAVD88 DATUM ELEVATION 6816.71.

BASIS OF BEARINGS:

ALL BEARINGS ARE BASED ON THE SOUTH LINE OF THE SOUTHEAST 1/4 OF SECTION 12 AS MONUMENTED BY A 3-1/4 INCH ALUMINUM CAP STAMPED "EL PASO COUNTY DPW T13S S12/S7/S13/S18 R65W R64W 1982 LS 17496" AT THE SOUTHEAST CORNER OF SECTION 12 AND BY A 3-1/4 INCH ALUMINUM CAP STAMPED "SURVCON INC. T13S R65W 1/4 S12 S13 2003 PLS 30829" AT THE SOUTH 1/4 CORNER OF SECTION 12, SAID LINE BEARS N89°50'28"W.

ENGINEER'S STATEMENT:

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS, AND SAID PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

BY: Nicole M. Schanel DATE: 05/30/2024

NICOLE SCHANEL, PE #52434
FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.

EL PASO COUNTY:

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTORS DISCRETION.

Gilbert LaForce, P.E.
Reason: On Behalf of the County Engineer
Date: 2024.06.12 11:27:33-06:00

06/12/2024

JOSHUA PALMER
COUNTY ENGINEER / ECM ADMINISTRATOR

DATE

OWNER:

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH ALL OF THE REQUIREMENTS SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.

James W. Hollis Jr.
CST METRO, LLC
19500 BULVERDE ROAD, SUITE 100
SAN ANTONIO TX, 78259

June 5, 2024
DATE

CONTACT LIST

OWNER
CST METRO, LLC
19500 BULVERDE ROAD, SUITE 100
SAN ANTONIO TX, 78259

PHONE: (720) 758-6223

DEVELOPER
LAND DEVELOPMENT CONSULTANTS, LLC
950 S. CHERRY ST., SUITE 510
DENVER, CO 80246
SOFIA HERNANDEZ
PHONE: (303) 717-3305
SOFIA@LDCAZ.COM

CIVIL ENGINEER/ LANDSCAPE ARCHITECT
MATRIX DESIGN GROUP
2435 RESEARCH PARKWAY, SUITE 300
COLORADO SPRINGS, CO 80920
NICOLE SCHANEL/ JASON ALWINE
PHONE: (719) 575-0100
NICOLE.SCHANEL@MATRIXDESIGNGROUP.COM

ARCHITECT
GREENBERG FARROW
30 EXECUTIVE DRIVE, SUITE 100
IRVINE, CA 92614
DOUG COUPER
PHONE: (949) 296-0450

LAND SURVEYOR
RUBINO SURVEYING
3312 AIRPORT ROAD
BOULDER, COLORADO 80301
PHONE: (303) 464-9515

GEOTECHNICAL ENGINEER
TERRACON CONSULTANTS, INC.
4172 CENTER PARK DRIVE
COLORADO SPRINGS, CO 80916
PHONE: (719) 597-2116

ELECTRICAL SERVICE
MOUNTAIN VIEW ELECTRIC ASSOCIATION
11140 E. WOODMEN ROAD
PEYTON, COLORADO 80831
PHONE: (719) 495-2283

WATER & SANITARY
WOODMEN HILLS METRO DISTRICT
8046 EASTONVILLE ROAD
FALCON, CO 80831
PHONE: (719) 495-2500

FIRE
FALCON FIRE PROTECTION DISTRICT
7030 OLD MERIDIAN ROAD
FALCON, CO 80831
PHONE: (719) 495-4050

STORM SEWER
EL PASO COUNTY PUBLIC SERVICES
3275 AKERS DR.
COLORADO SPRINGS, COLORADO 80922
PHONE: (719) 520-6460

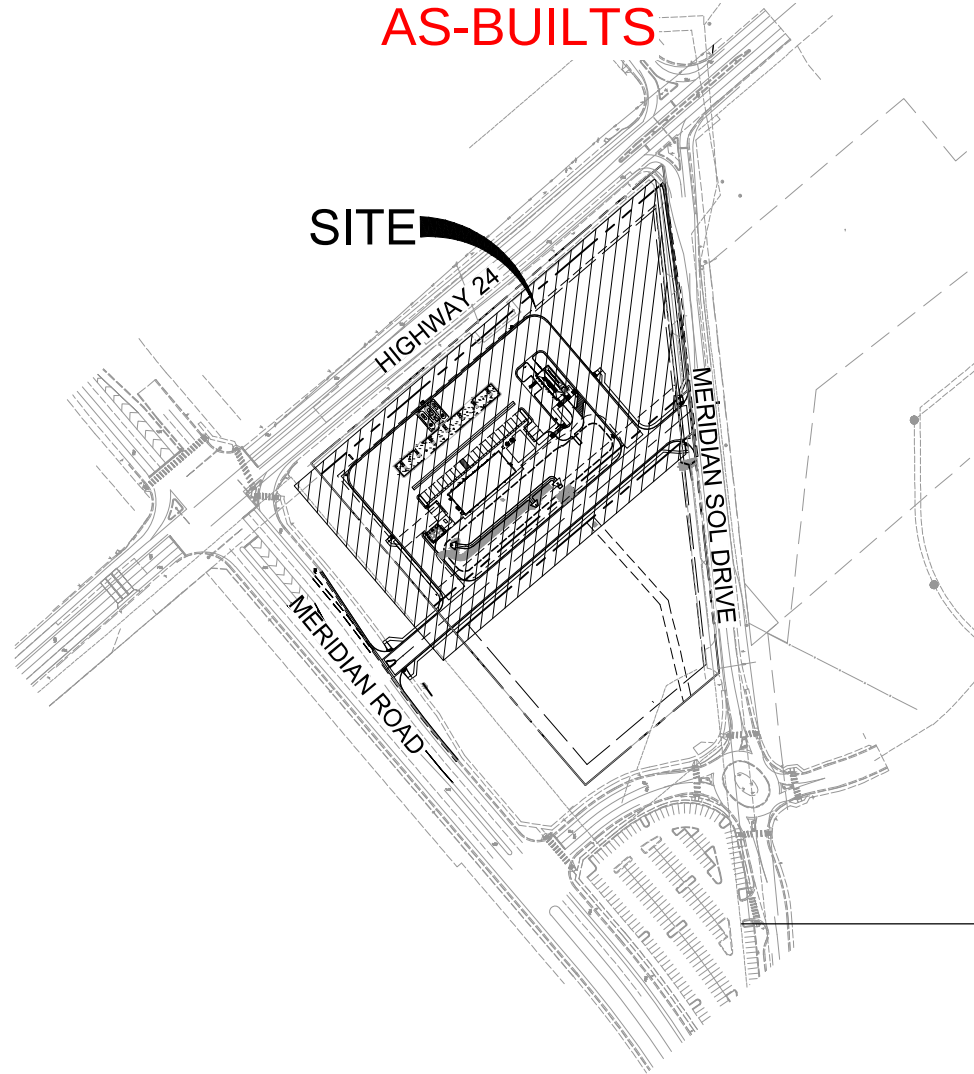
GAS
COLORADO SPRINGS UTILITIES
7710 DURANT DRIVE
COLORADO SPRINGS, COLORADO 80920
TIM BENEDICT
PHONE: (719) 668-3574

CIRCLE K AT HIGHWAY 24 & MERIDIAN ROAD
100% CONSTRUCTION DOCUMENTS

EL PASO COUNTY, COLORADO

MAY 2024

AS-BUILTS



SITE MAP

1" = 150'



VICINITY MAP

1" = 2,000'

SHEET INDEX		
SHEET TITLE	SHEET DESCRIPTION	SHEET NUMBER
TS01	COVER SHEET	1
GN01	GENERAL NOTES	2
GN02	GENERAL NOTES	3
GN03	GENERAL NOTES	4
GN04	GENERAL NOTES	5
DM01	DEMOLITION PLAN	6
DGP01	DETAILED GRADING PLAN	7
PP01	PAVEMENT PLAN	8
UT01	OVERALL UTILITY PLAN	9
WT01	WATER PLAN & PROFILE	10
SS01	SANITARY PLAN & PROFILE	11
DT01	UTILITY DETAILS	12
DT02	UTILITY DETAILS	13
SD01	STORM DRAIN PLANS	14
DF01	POND PLAN	15
DF02	POND DETAILS	16
DF03	POND DETAILS	17
DF04	POND DETAILS	18
SN01	SIGNING & STRIPING PLAN	19

COUNTY PLANNING CERTIFICATION

THESE CONSTRUCTION DOCUMENTS HAVE BEEN REVIEWED AND FOUND TO BE IN ACCORDANCE WITH EL PASO COUNTY LAND DEVELOPMENT CODE.

DIRECTOR, PLANNING AND COMMUNITY DEVELOPMENT DATE

FIRE AUTHORITY APPROVAL:

THE NUMBER OF FIRE HYDRANTS AND HYDRANT LOCATIONS SHOWN ON THIS WATER INSTALLATION PLAN ARE CORRECT AND ADEQUATE TO SATISFY THE FIRE PROTECTION REQUIREMENTS AS SPECIFIED BY THE FIRE DISTRICT SERVING THE PROPERTY NOTED ON THE PLANS.

FIRE PROTECTION DISTRICT: Falcon Fire Protection District

SIGNED: Curtis L. Kauffman DATE: 06/05/2024
FIRE PROTECTION DISTRICT

WATER AND SEWER MAIN EXTENSIONS:

ANY CHANGES OR ALTERATIONS AFFECTING THE GRADE, ALIGNMENT, ELEVATION, AND/OR DEPTH OF COVER OF ANY WATER OR SEWER MAINS OR OTHER APPURTENANCE SHOWN ON THIS DRAWING SHALL BE THE RESPONSIBILITY OF THE OWNER/DEVELOPER. THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR ALL OPERATIONAL DAMAGES AND DEFECTS IN INSTALLATION AND MATERIAL FOR MAINS AND SERVICES FROM THE DATE OF APPROVAL UNTIL FINAL ACCEPTANCE IS ISSUED.

SIGNED: James W. Hollis Jr. DATE: June 5, 2024
OWNER/DEVELOPER

PRINT NAME: James W. Hollis Jr., Secretary of CST Metro, LLC

DBA: Circle K Stores Inc.

ADDRESS: 17319 San Pedro Avenue, Suite 400, San Antonio, Texas 78232

DISTRICT APPROVALS:

THE WOODMEN HILLS METROPOLITAN DISTRICT RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN AND HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY.

WOODMEN HILLS METROPOLITAN DISTRICT
WATER DESIGN APPROVAL

DATE: 6-3-2024 BY: Cody Ritter

PROJECT NO. N/A

IN CASE OF ERRORS OR OMISSIONS WITH THE WATER DESIGN AS SHOWN ON THIS DOCUMENT, THE STANDARDS AS DEFINED IN THE "RULES AND REGULATIONS FOR INSTALLATION OF WATER MAINS AND SERVICES" SHALL RULE.

APPROVAL EXPIRES 180 DAYS FROM DESIGN APPROVAL.

WOODMEN HILLS METROPOLITAN DISTRICT
WASTEWATER DESIGN APPROVAL

DATE: 6-3-2024 BY: Cody Ritter

PROJECT NO. N/A

IN CASE OF ERRORS OR OMISSIONS WITH THE WATER DESIGN AS SHOWN ON THIS DOCUMENT THE STANDARDS AS DEFINED IN THE "RULES AND REGULATIONS FOR INSTALLATION OF WASTEWATER MAINS AND SERVICES" SHALL RULE.

APPROVAL EXPIRES 180 DAYS FROM DESIGN APPROVAL.

According to the modeled calculations reviewed by the governing water district and/or Colorado registered civil engineer/designer, the theoretical available fire flow at node A is gallons per minute under maximum daily demand conditions at 20 psi residual. The actual fire flow may vary due to various parameters.

According to the modeled calculations reviewed by the governing water district and/or Colorado registered civil engineer/designer, the theoretical available fire flow at node B is gallons per minute under maximum daily demand conditions at 20 psi residual. The actual fire flow may vary due to various parameters.

Upon detailed review of the available water supply, fire hydrant locations and hose lay distances, these plans are hereby considered approved.

FALCON FIRE DEPARTMENT
FIRE DEPARTMENT SIGNATURE: Curtis L. Kauffman
DATE: 06/05/2024



Know what's below.
Call before you dig.

CONSULTANTS:
Matrix
Excellence by Design

2435 RESEARCH PARKWAY, SUITE
300 COLORADO SPRINGS, CO 80920
PHONE: (719) 575-0100



LAND DEVELOPMENT
CONSULTANTS, LLC

950 S. CHERRY ST., SUITE 510
DENVER, CO 80246

OWNER:



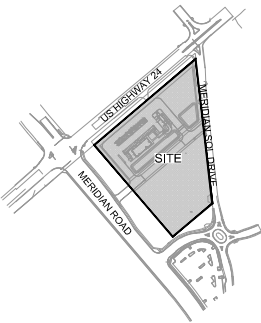
CST METRO, LLC
19500 BULVERDE ROAD, SUITE 100
SAN ANTONIO TX, 78259
PHONE: (720) 758-6223

SEAL



FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE MOST RECENT PROJECT CONSTRUCTION DOCUMENTS. MATRIX DESIGN GROUP IS NOT RESPONSIBLE FOR CHANGES, ALTERATIONS, OR USE OF CONSTRUCTION DOCUMENTS PRIOR TO JURISDICTIONAL APPROVAL.

VICINITY MAP:



PROJECT:

CIRCLE K STORES INC.

100% CONSTRUCTION DOCUMENTS

HIGHWAY 24 & MERIDIAN ROAD
FALCON, CO

REVISION HISTORY:

NO.	DATE	DESCRIPTION	BY
1	09/06/2022	PER REVIEW COMMENTS	
2	09/30/2022	75% CD SUBMITTAL	
3	10/07/2022	100% CD SUBMITTAL	
4	12/02/2022	CD 1ST RE-SUBMITTAL	
5	01/19/2023	CD 2ND RE-SUBMITTAL	

DRAWING INFORMATION:

PROJECT NO: 21,1207,037

DRAWN BY: LCB

CHECKED BY: NMS

DESIGNED BY: NMS

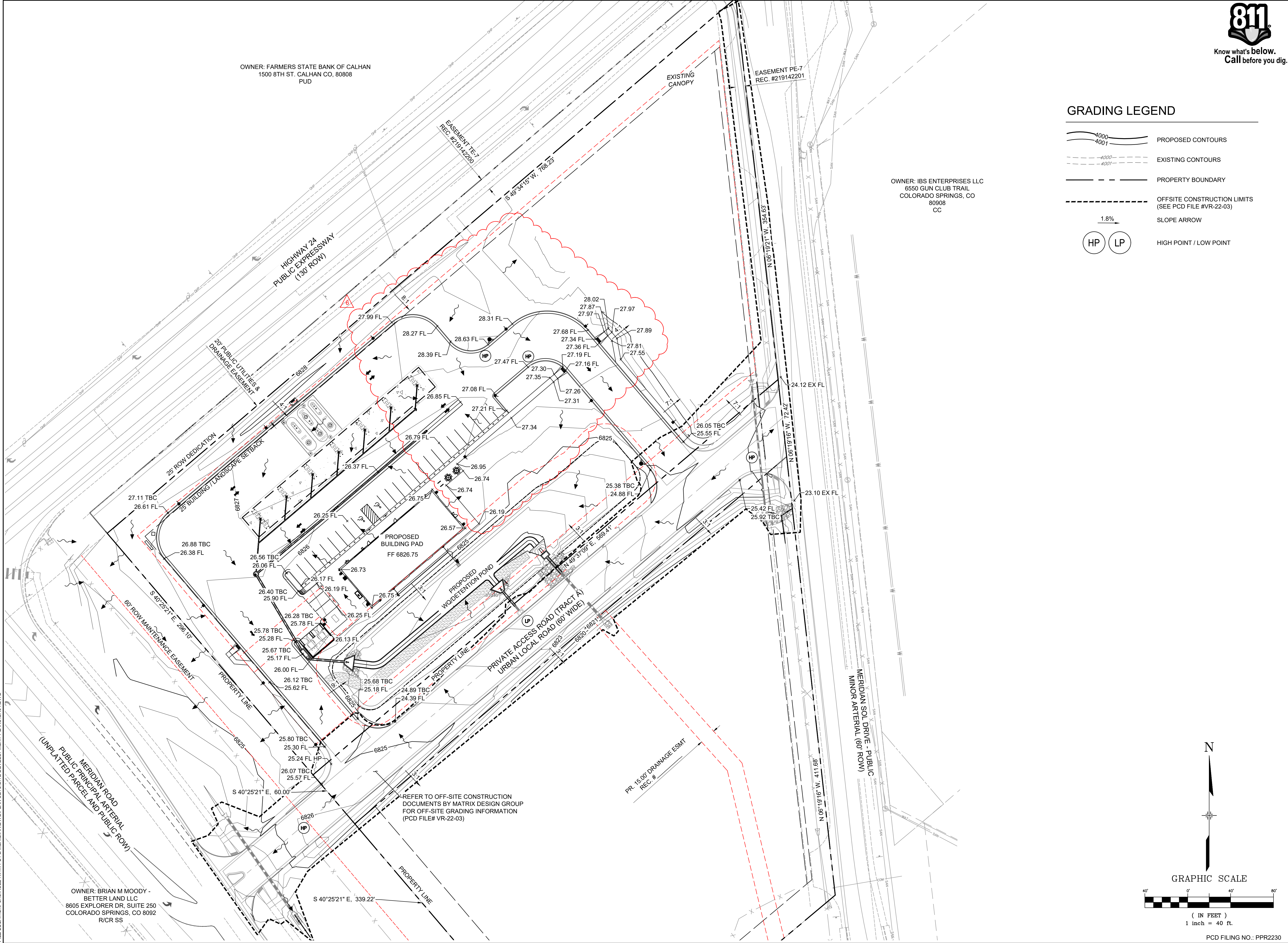
SHEET TITLE:

COVER SHEET
AS-BUILTS

SHEET 1 OF 19
TS01

PCD FILING NO.: PPR2230

ISSUE DATE: MAY 2024



CONSULTANTS:

Matrix
Excellence by Design
2435 RESEARCH PARKWAY, SUITE
300 COLORADO SPRINGS, CO 80920
PHONE: (719) 575-0100

LAND DEVELOPMENT
CONSULTANTS, LLC
950 S. CHERRY ST., SUITE 510
DENVER, CO 80246

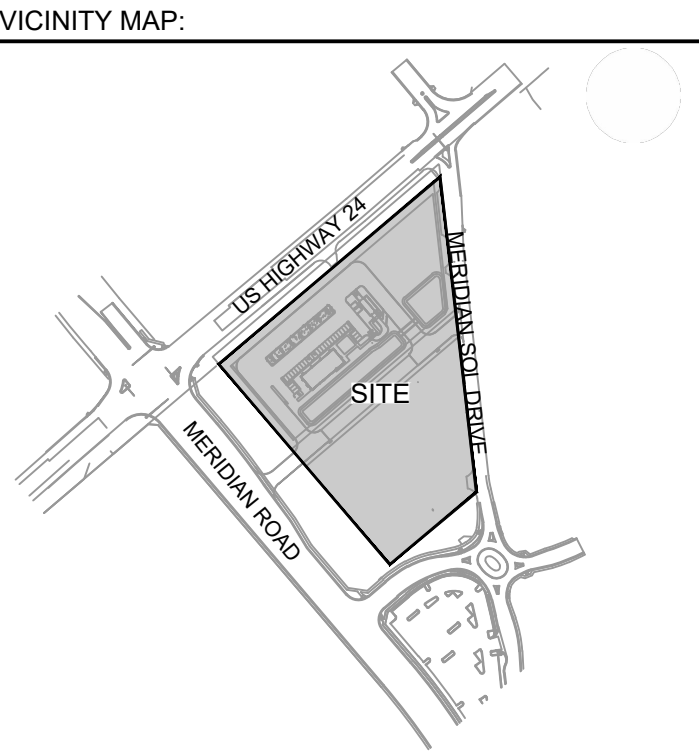
OWNER:

CIRCLE K

CST METRO, LLC
19500 BULVERDE ROAD, SUITE 100
SAN ANTONIO TX, 78259
PHONE: (720) 758-6223

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DOCUMENTS PRIOR TO JURISDICTIONAL APPROVAL.



PROJECT:

CIRCLE K STORES INC.

CD ADDENDUM 1

HIGHWAY 24 & MERIDIAN ROAD
FALCON, CO

REVISION HISTORY:

NO.	DATE	DESCRIPTION	BY
2	09/30/2022	75% CD SUBMITTAL	
3	10/07/2022	100% CD SUBMITTAL	
4	12/02/2022	CD 1ST RE-SUBMITTAL	
5	01/19/2023	CD 2ND RE-SUBMITTAL	
6	06/02/2025	CD AMENDMENT 1	

DRAWING INFORMATION:

PROJECT NO: 21.1207.037

DRAWN BY: LCB

CHECKED BY: NMS

DESIGNED BY: NMS

SHEET TITLE:

**DETAILED
GRADING PLAN**
AS-BUILTS

SHEET 7 OF 19
DGP01

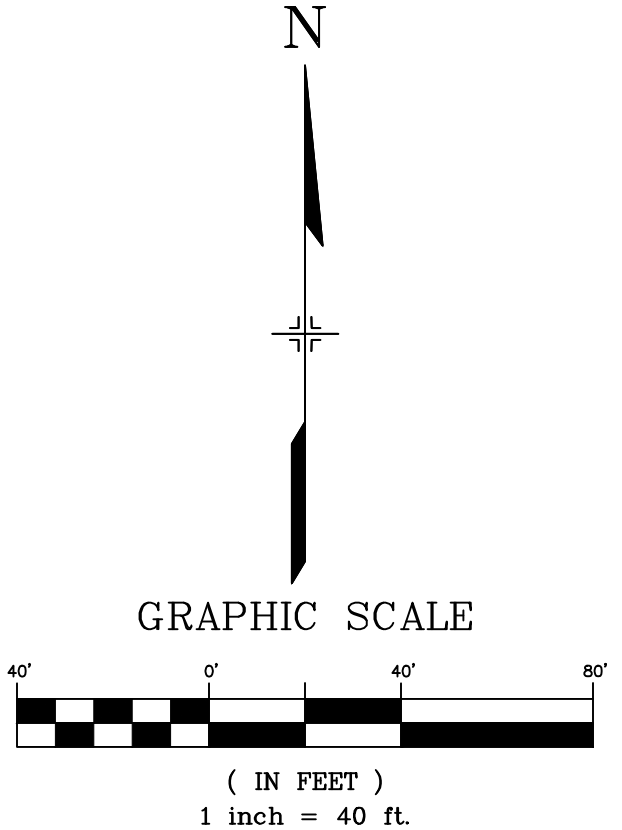
ISSUE DATE: JUNE 2025

OWNER: FARMERS STATE BANK OF CALHAN
1500 8TH ST. CALHAN CO, 80808
PUD

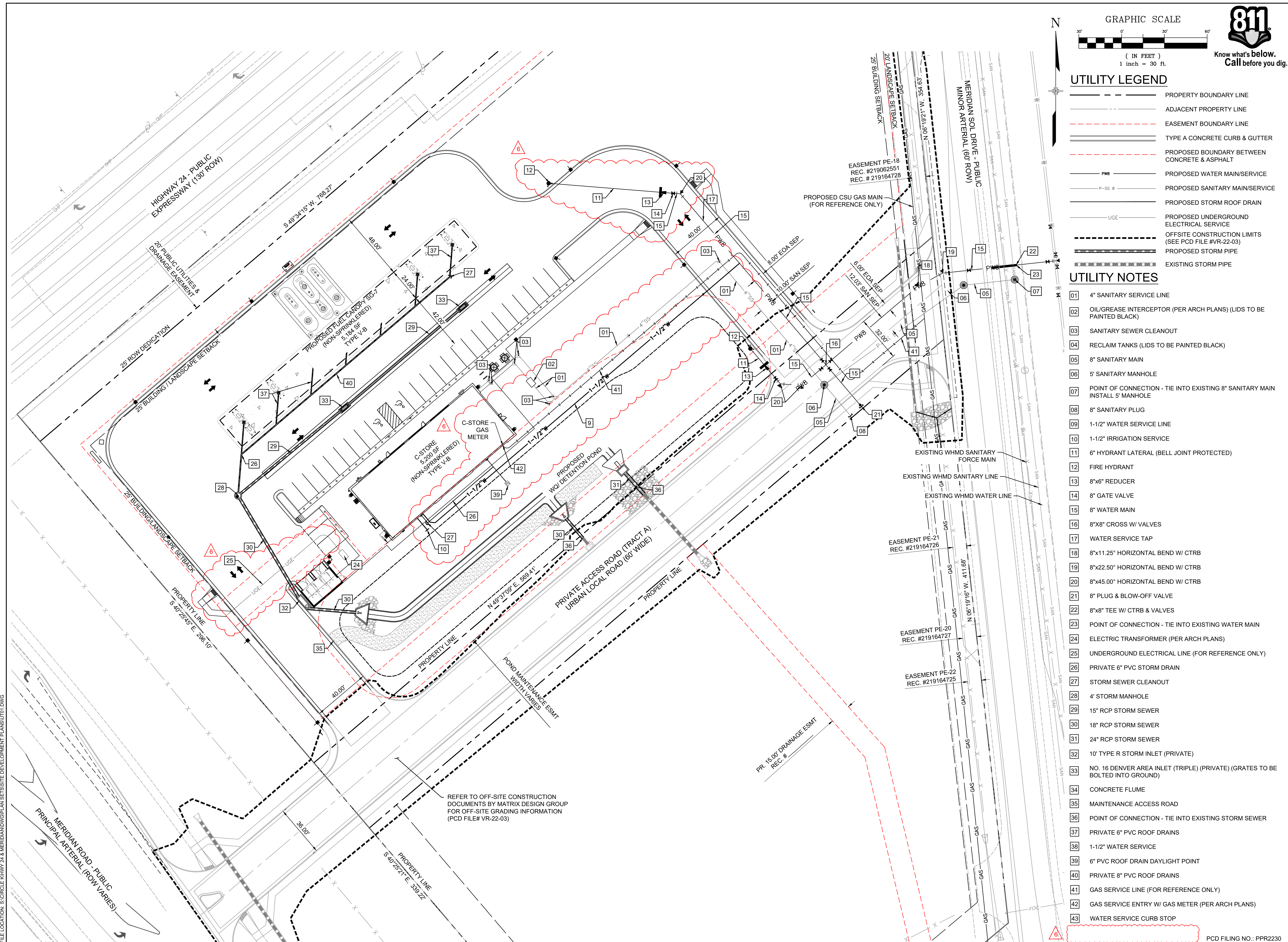
OWNER: IBS ENTERPRISES LLC
6550 GUN CLUB TRAIL
COLORADO SPRINGS, CO
80908
CC

GRADING LEGEND

- PROPOSED CONTOURS
- EXISTING CONTOURS
- PROPERTY BOUNDARY
- OFFSITE CONSTRUCTION LIMITS
(SEE PCD FILE #VR-22-03)
- SLOPE ARROW
- HIGH POINT / LOW POINT



PCD FILING NO.: PPR2230



UTILITY LEGEND

UTILITY NOTES

PCD FILING NO.: PPR2230



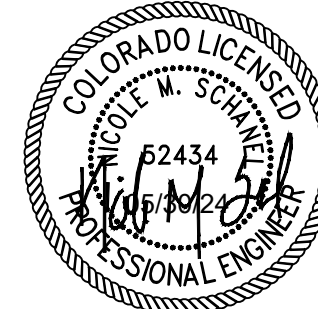
950 S. CHERRY ST., SUITE 510
DENVER, CO 80246

OWNER:



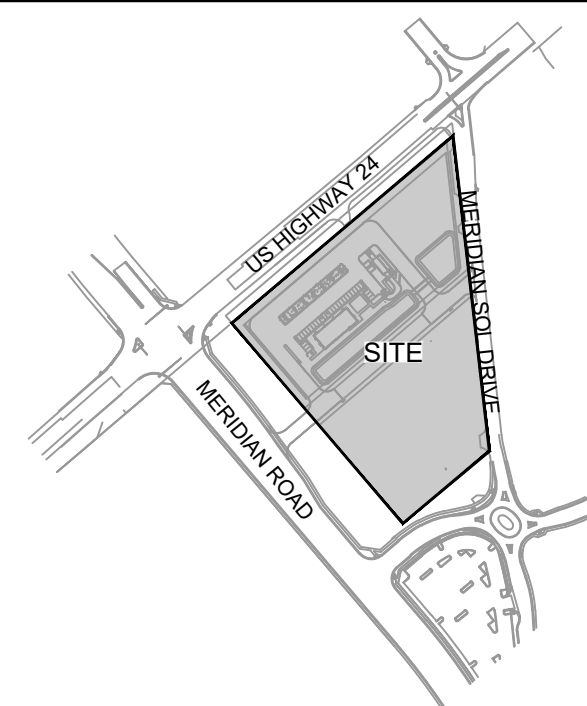
CST METRO, LLC
19500 BULVERDE ROAD, SUITE 100
SAN ANTONIO TX, 78259
PHONE: (720) 758-6223

SEAI



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MOST RECENT PROJECT CONSTRUCTION DOCUMENTS.
MATRIX DESIGN GROUP IS NOT RESPONSIBLE FOR
CHANGES, ALTERATIONS, OR USE OF CONSTRUCTION
DOCUMENTS PRIOR TO JURISDICTIONAL APPROVAL.

VICINITY MAP



PROJECT:

CIRCLE K STORES INC.

CD ADDENDUM 1

HIGHWAY 24 & MERIDIAN ROAD
FALCON, CO

REVISION HISTORY:

NO.	DATE	DESCRIPTION
2	09/30/2022	75% CD SUBMITTAL
3	10/07/2022	100% CD SUBMITTAL
4	12/02/2022	CD 1ST RE-SUBMITTAL
5	01/19/2023	CD 2ND RE-SUBMITTAL
6	06/02/2025	CD AMENDMENT 1

DRAWING INFORMATION:

PROJECT NO: 21.1207.037

DRAWN BY: LCB

CHECKED BY: NMS

DESIGNED BY: NMS

SHEET TITLE:

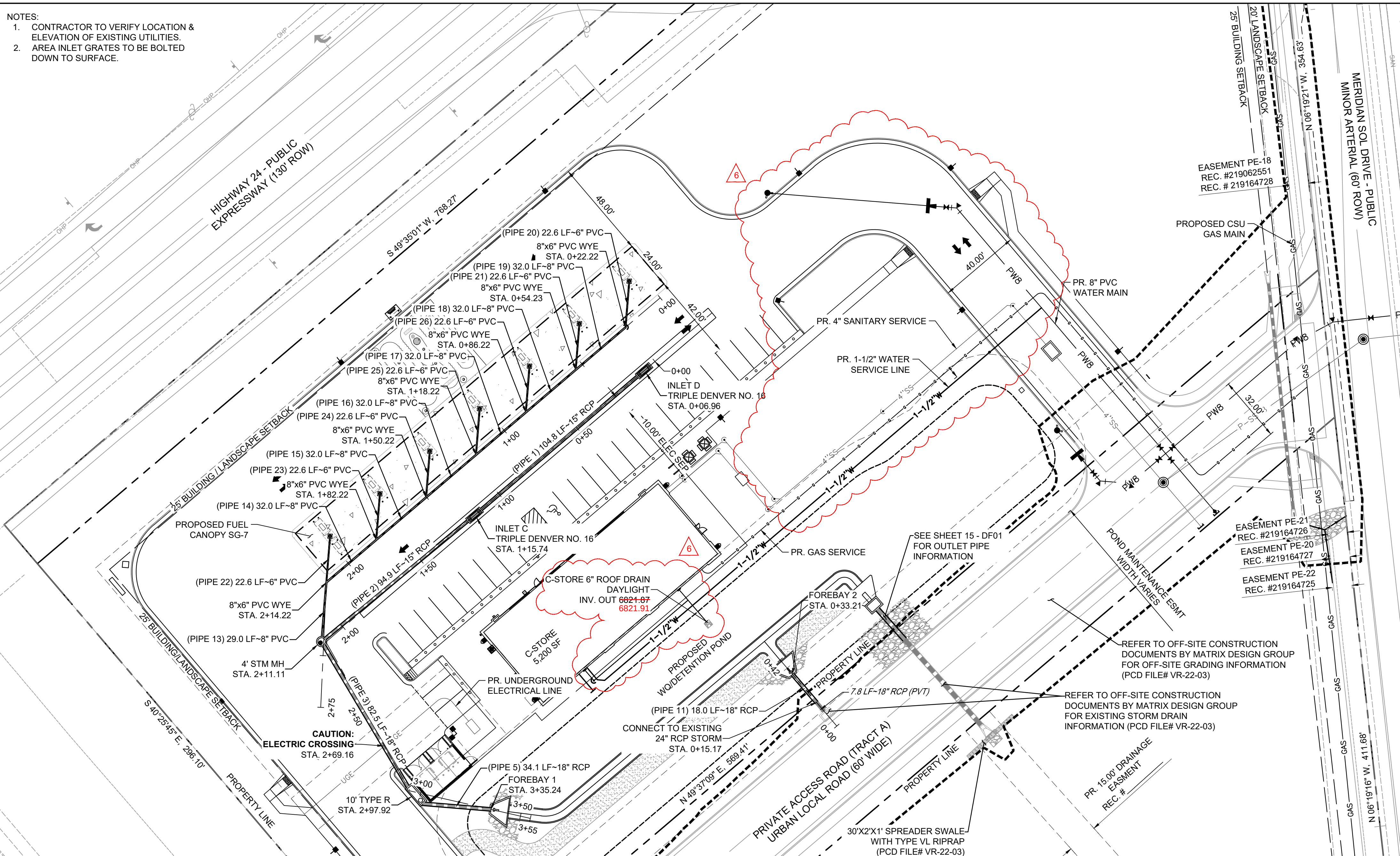
OVERALL UTILITY PLAN

SHEET 9 OF 19
UT01

ISSUE DATE: JUNE 2025

FILE LOCATION: S:\CIRCLE K\HWY 24 & MERIDIAN\DWG\PLAN SETS\SITE DEVELOPMENT\PLANS\UT01.DWG

- NOTES:
1. CONTRACTOR TO VERIFY LOCATION & ELEVATION OF EXISTING UTILITIES.
 2. AREA INLET GRATES TO BE BOLTED DOWN TO SURFACE.



GRAPHIC SCALE

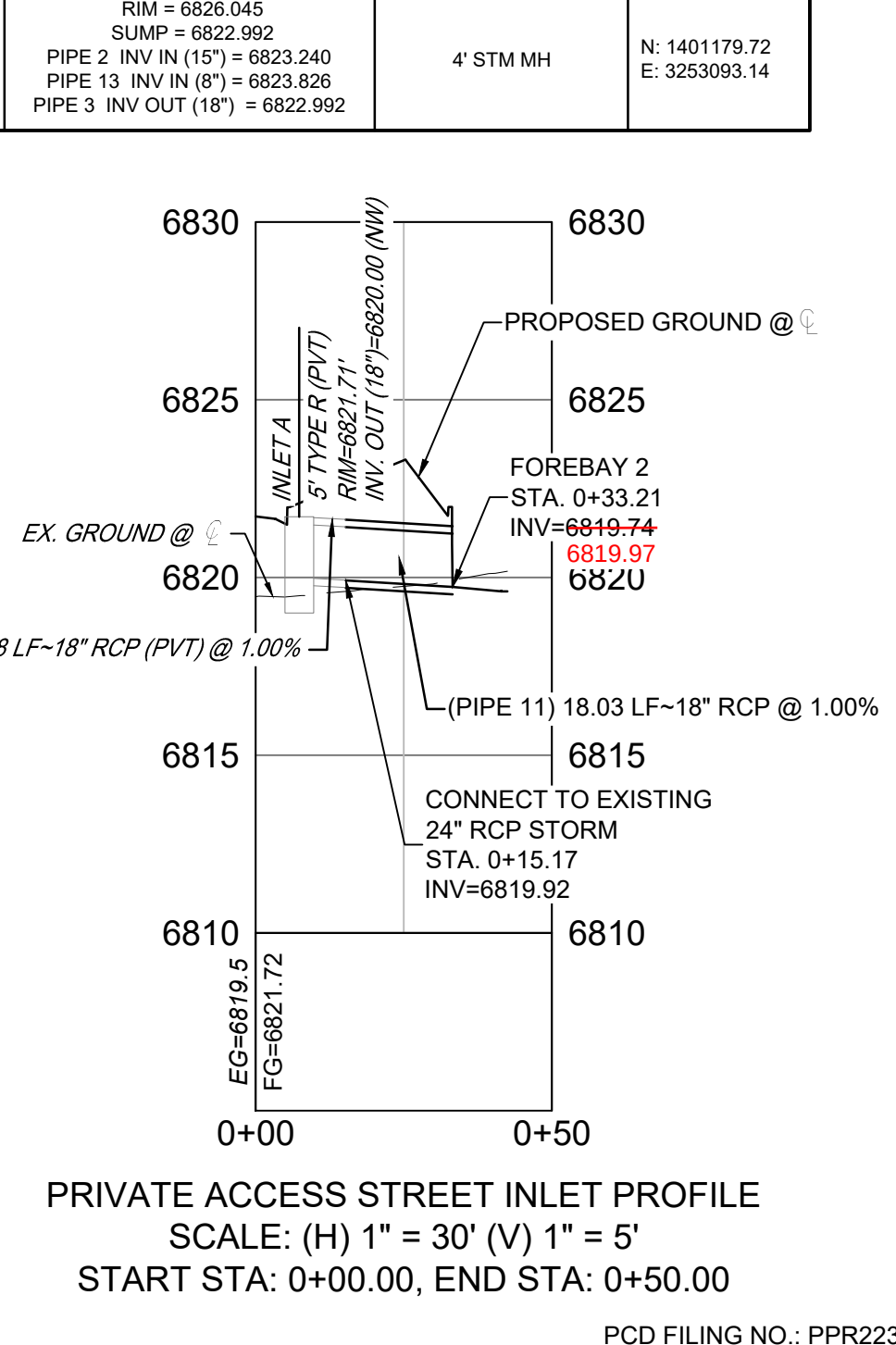
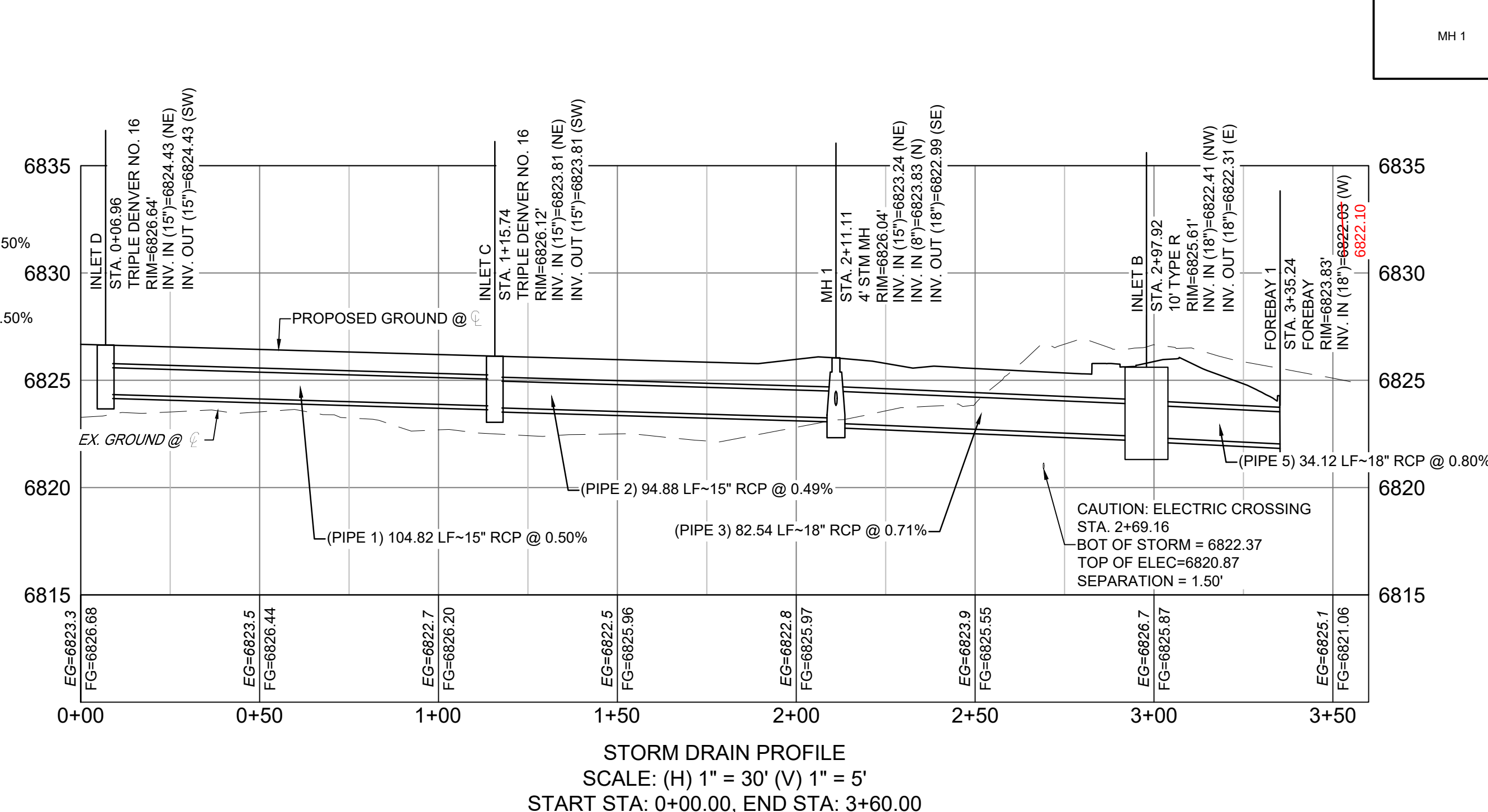
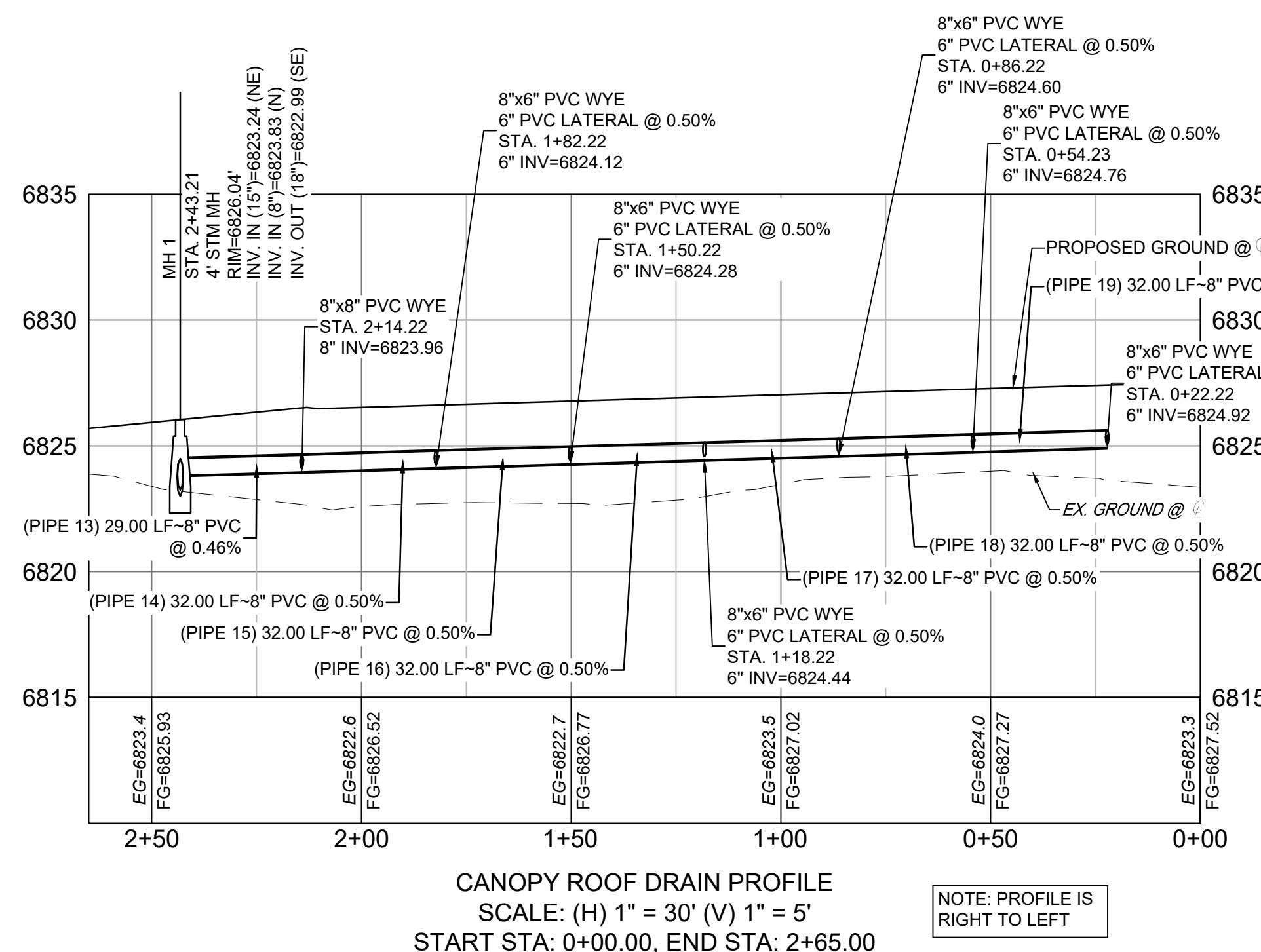
(IN FEET)
1 inch = 30 ft.

UTILITY LEGEND

- PROPERTY BOUNDARY LINE
- ADJACENT PROPERTY LINE
- EASEMENT BOUNDARY LINE
- TYPE A CONCRETE CURB & GUTTER
- PROPOSED BOUNDARY BETWEEN CONCRETE & ASPHALT
- PROPOSED WATER MAIN/SERVICE
- PROPOSED SANITARY MAIN/SERVICE
- PROPOSED STORM ROOF DRAIN
- PROPOSED STORM PIPE
- EXISTING STORM PIPE
- PROPOSED UNDERGROUND ELECTRICAL SERVICE
- OFFSITE CONSTRUCTION LIMITS (SEE PCD FILE #VR-22-03)

PIPE SUMMARY TABLE				
PIPE NAME	PIPE DESCRIPTION	PIPE SLOPE	PIPE LENGTH	PIPE BEARING
PIPE 1	15" RCP	0.50%	104.82	N49°34'15"E
PIPE 2	15" RCP	0.49%	94.88	N50°28'35"E
PIPE 3	18" RCP	0.71%	82.54	S30°43'03"E
PIPE 5	18" RCP	0.80%	34.12	S85°15'29"E
PIPE 12	24" RCP	1.00%	19.76	N41°46'04"W
PIPE 13	8" PVC	0.46%	29.00	N04°34'15"E
PIPE 14	8" PVC	0.50%	32.00	N49°34'15"E
PIPE 15	8" PVC	0.50%	32.00	N49°34'15"E
PIPE 16	8" PVC	0.50%	32.00	N49°34'15"E
PIPE 17	8" PVC	0.50%	32.00	N49°34'15"E
PIPE 18	8" PVC	0.50%	32.00	N49°34'15"E
PIPE 19	8" PVC	0.50%	32.00	N49°34'15"E
PIPE 20	6" PVC	0.50%	22.63	N04°34'15"E
PIPE 21	6" PVC	0.50%	22.63	N04°34'15"E
PIPE 22	6" PVC	0.50%	22.63	N04°34'14"E
PIPE 23	6" PVC	0.50%	22.63	N04°34'14"E
PIPE 24	6" PVC	0.50%	22.63	N04°34'14"E
PIPE 25	6" PVC	0.50%	22.63	N04°34'06"E
PIPE 26	6" PVC	0.50%	22.63	N04°34'14"E

STRUCTURE TABLE			
STRUCTURE NAME	STRUCTURE DETAILS	STRUCTURE TYPE	NORTHING & EASTING
FOREBAY 1	RIM = 6823.826 SUMP = ??? PIPE 5 INV IN (18") = 6822.035	FOREBAY	N: 1401097.81 E: 3253175.87
INLET B	RIM = 6825.608 SUMP = 6822.306 PIPE 3 INV IN (18") = 6822.410 PIPE 5 INV OUT (18") = 6822.306	10" TYPE R	N: 1401104.91 E: 3253199.21
INLET C	RIM = 6826.124 SUMP = 6823.710 PIPE 2 (A) INV IN (15") = 6823.810 PIPE 2 (B) INV OUT (15") = 6823.810	TRIPLE DENVER NO. 16	N: 1401241.40 E: 3253167.85
INLET D	RIM = 6826.642 SUMP = 6824.330 PIPE 1 (A) INV IN (15") = 6824.430 PIPE 1 (B) INV OUT (15") = 6824.430	TRIPLE DENVER NO. 16	N: 1401311.94 E: 3253250.65
MH 1	RIM = 6826.045 SUMP = 6822.992 PIPE 2 INV IN (15") = 6823.240 PIPE 13 INV IN (8") = 6823.826 PIPE 3 INV OUT (18") = 6822.992	4" STM MH	N: 1401179.72 E: 3253093.14



CONSULTANTS:

Matrix
Excellence by Design
2435 RESEARCH PARKWAY, SUITE 300
COLORADO SPRINGS, CO 80920
PHONE: (719) 575-0100

LAND DEVELOPMENT
CONSULTANTS, LLC
950 S. CHERRY ST., SUITE 510
DENVER, CO 80246

OWNER:

CIRCLE K

CST METRO, LLC
19500 BULVERDE ROAD, SUITE 100
SAN ANTONIO TX, 78259
PHONE: (720) 758-6223

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VICINITY MAP:

PROJECT:

CIRCLE K STORES INC.

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FALCON, CO

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DRAWING INFORMATION:

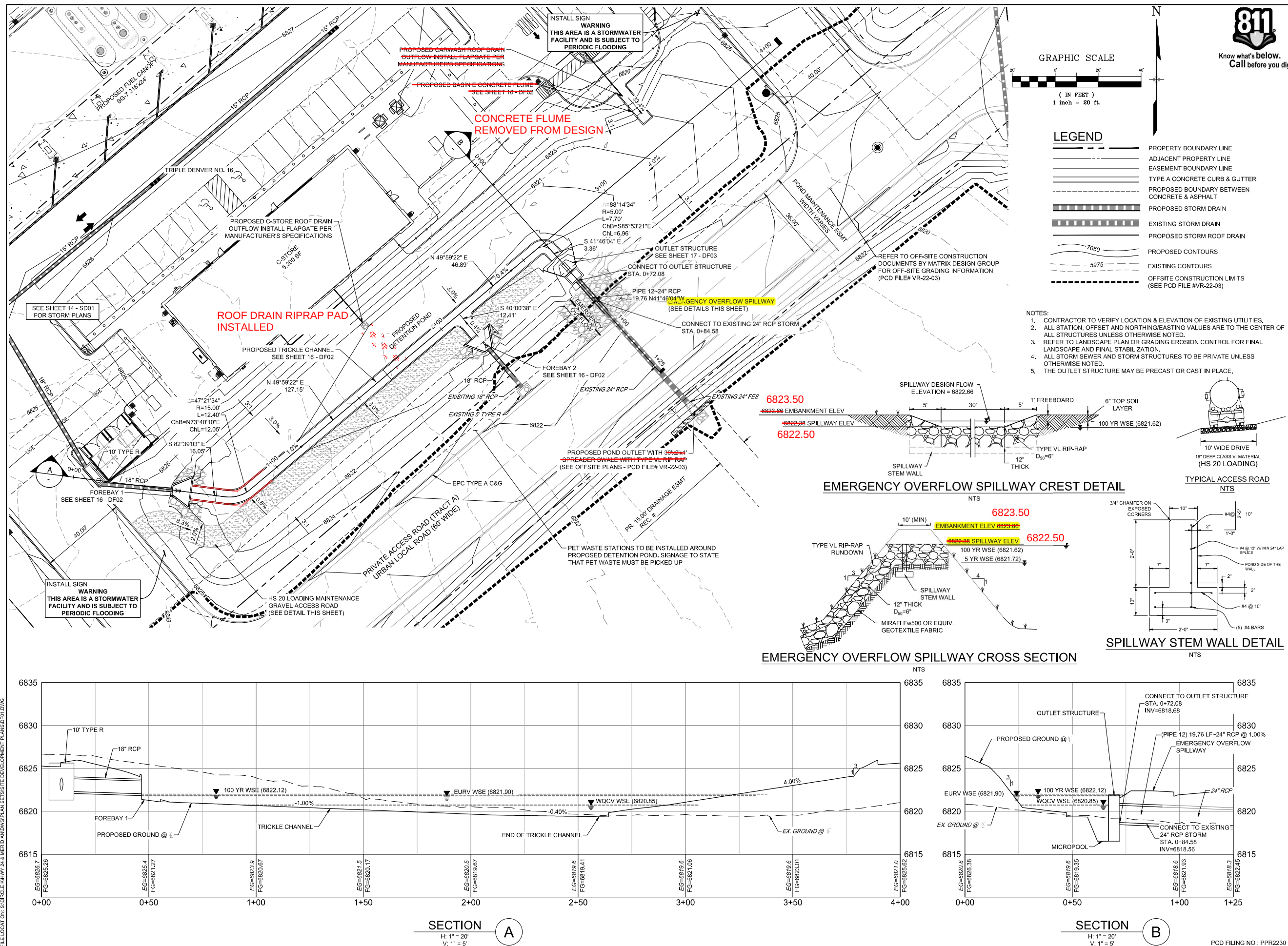
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CHECKED BY: NMS
DESIGNED BY: NMS

SHEET TITLE:

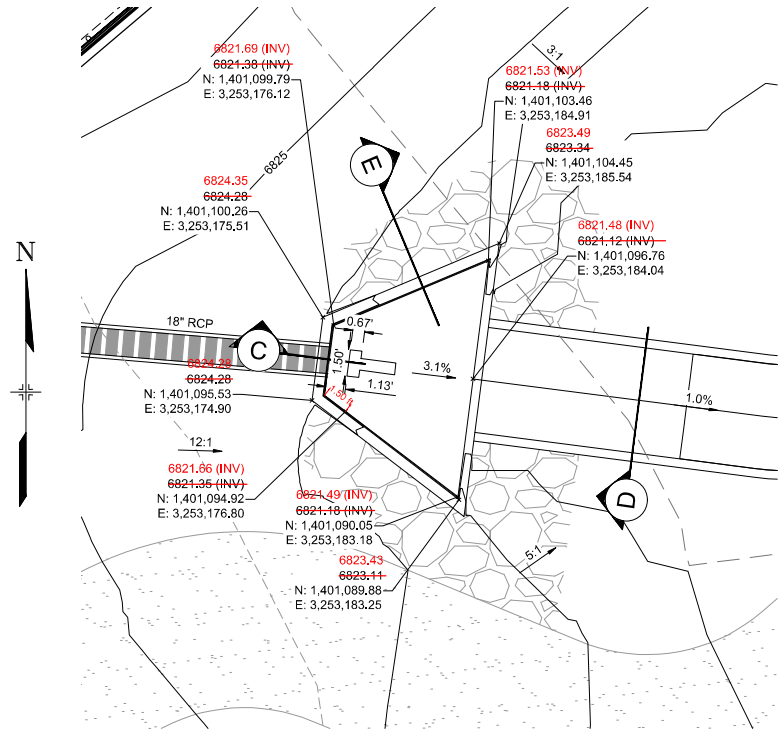
STORM DRAIN PLANS
AS-BUILTS

SHEET 14 OF 19
SD01

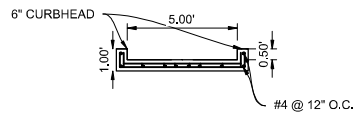
ISSUE DATE: JUNE 2025



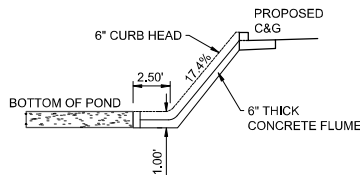
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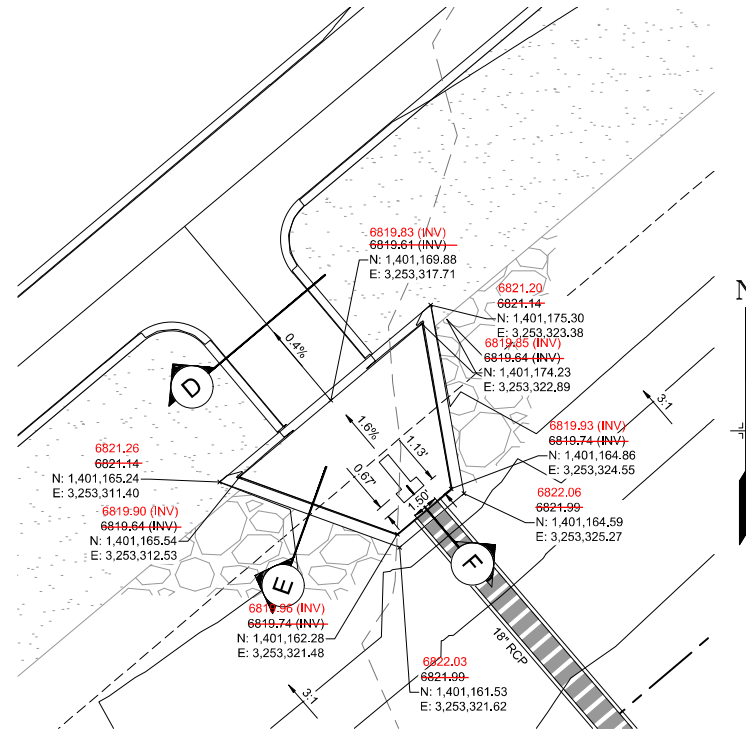
FOREBAY 1
H: 1" = 5'



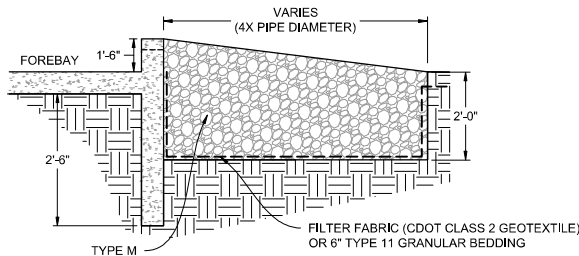
BASIN E CONCRETE
FLUME SECTION
NTS



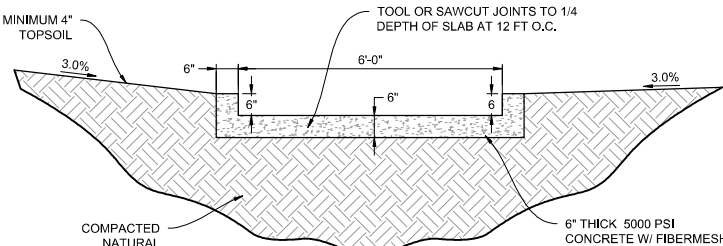
BASIN E CONCRETE
FLUME PROFILE
NTS



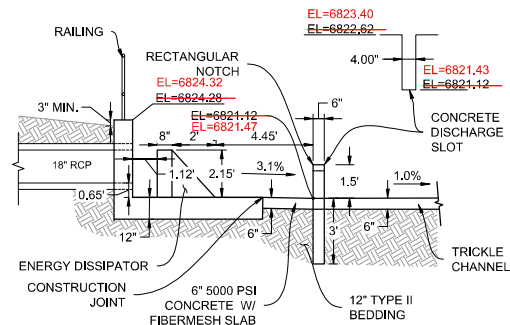
FOREBAY 2
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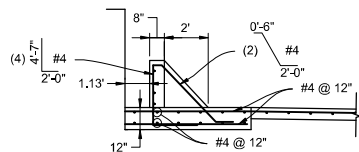
SECTION E
NTS



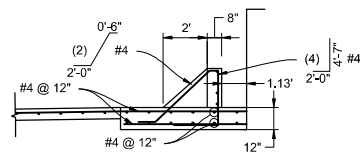
SECTION D
NTS



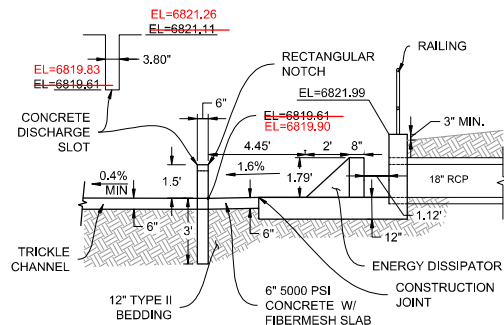
SECTION C
H: 1" = 4'



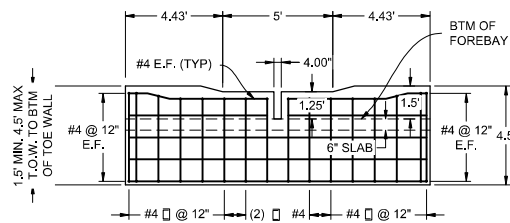
FOREBAY 1 REINFORCING
H: 1" = 4'



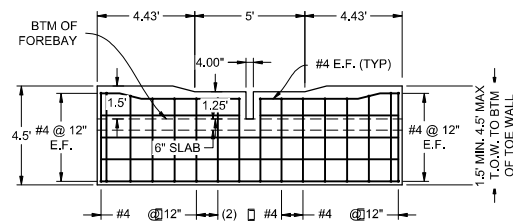
FOREBAY 2 REINFORCING
H: 1" = 4'



SECTION F
H: 1" = 4'



FOREBAY 1 WALL PROFILE
H: 1" = 4'



FOREBAY 2 WALL PROFILE
H: 1" = 4'



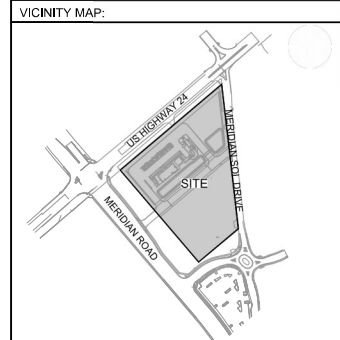
CONSULTANTS:
Matrix
Excellence by Design
2435 RESEARCH PARKWAY, SUITE
300 COLORADO SPRINGS, CO 80920
PHONE: (719) 575-0100

LAND DEVELOPMENT
CONSULTANTS, LLC
950 S. CHERRY ST., SUITE 512
DENVER, CO 80246

OWNER/DEVELOPER:
CIRCLE K
ROCKY MOUNTAINS DIVISION
5500 S QUEBEC STREET, SUITE 100
GREENWOOD VILLAGE, CO 80111
PHONE: (720) 758-6223

SEAL

FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE
MOST RECENT PROJECT CONSTRUCTION DOCUMENTS.
MATRIX DESIGN GROUP IS NOT RESPONSIBLE FOR
CHANGES, ALTERATIONS, OR USE OF CONSTRUCTION
DOCUMENTS PRIOR TO JURISDICTIONAL APPROVAL.



PROJECT:
CIRCLE K STORES INC.
100% CONSTRUCTION DOCUMENTS
HIGHWAY 24 & MERIDIAN ROAD
FALCON, CO

REVISION HISTORY:		
NO.	DATE	DESCRIPTION
1	09/06/2022	PER REVIEW COMMENTS
2	09/30/2022	75% CD SUBMITTAL
3	10/07/2022	100% CD SUBMITTAL
4	12/02/2022	CD 1ST RE-SUBMITTAL
5	01/19/2023	CD 2ND RE-SUBMITTAL

DRAWING INFORMATION:
PROJECT NO: 21.1207.037
DRAWN BY: LCB
CHECKED BY: NMS
DESIGNED BY: NMS
SHEET TITLE:

POND DETAILS
AS-BUILTS

SHEET 16 OF 19
DF02



Know what's below.
Call before you dig.

Matrix
Excellence by Design

2435 RESEARCH PARKWAY, SUITE
300 COLORADO SPRINGS, CO 80920
PHONE: (719) 575-0100



LAND DEVELOPMENT
CONSULTANTS, LLC

950 S. CHERRY ST., SUITE 512
DENVER, CO 80246

OWNER/DEVELOPER:



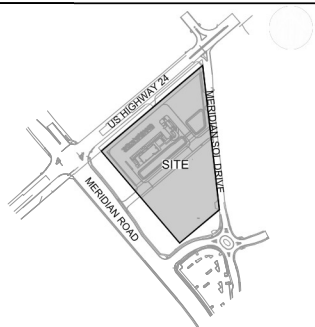
ROCKY MOUNTAINS DIVISION
5500 S QUEBEC STREET, SUITE 100
GREENWOOD VILLAGE, CO 80111
PHONE: (720) 758-6223

SEAL



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VICINITY MAP:



PROJECT:

CIRCLE K STORES INC.

100% CONSTRUCTION DOCUMENTS

**HIGHWAY 24 & MERIDIAN ROAD
FALCON, CO**

REVISION HISTORY:

NO.	DATE	DESCRIPTION	BY
1	09/06/2022	PER REVIEW COMMENTS	
2	09/30/2022	75% CD SUBMITTAL	
3	10/07/2022	100% CD SUBMITTAL	
4	12/02/2022	CD 1ST RE-SUBMITTAL	
5	01/19/2023	CD 2ND RE-SUBMITTAL	

DRAWING INFORMATION:

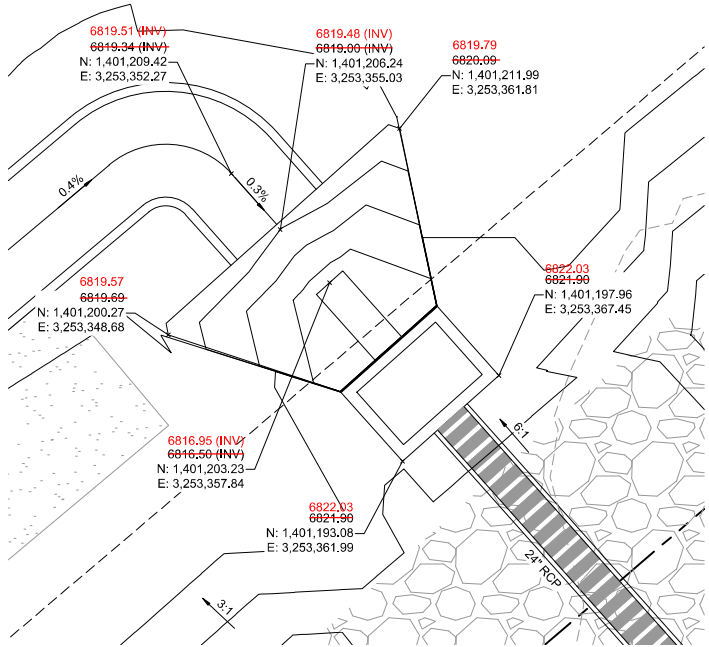
PROJECT NO:	21.1207.037
DRAWN BY:	LCB
CHECKED BY:	NMS
DESIGNED BY:	NMS
SHEET TITLE:	

POND DETAILS
AS-BUILTS

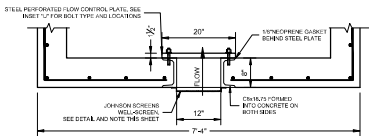
SHEET 17 OF 19
DF03

PCD FILING NO.: PPR2230

ISSUE DATE: MAY 2024



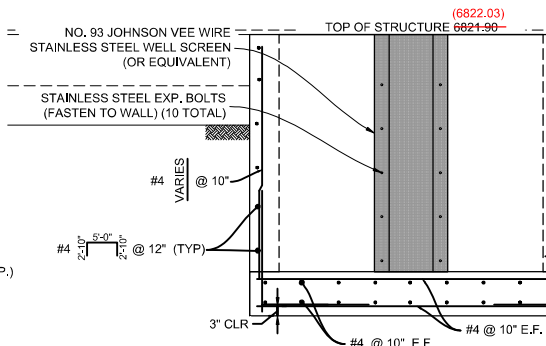
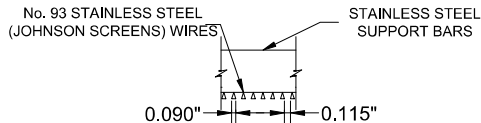
OUTLET STRUCTURE
H: 1" = 5'



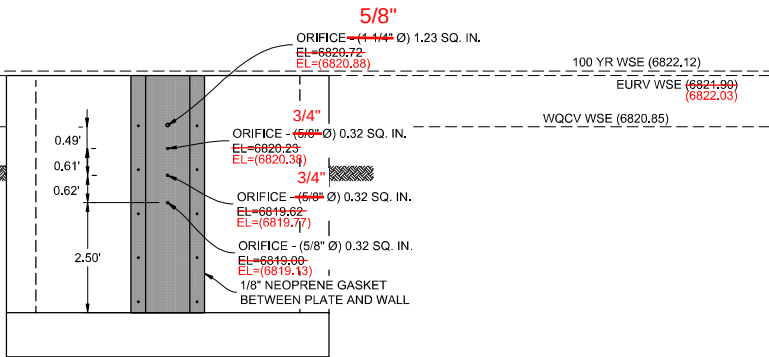
**OUTLET STRUCTURE AT
ORIFICE PLATE DETAILS**
H: 1" = 2'

**JOHNSON SCREENS STAINLESS STEEL
VEE WIRE FILTERS WELL-SCREEN (OR EQUAL)**

STRUCTURE	SCREEN #93 VEE WIRE SLOT OPENING	SUPPORT ROD TYPE & SPACING	TOTAL SCREEN THICKNESS	CARBON STEEL FRAME TYPE
OUTLET STRUCTURES	0.139	#156 VEE @ 3/4" O.C.	0.31"	3/8" x 1" BAR

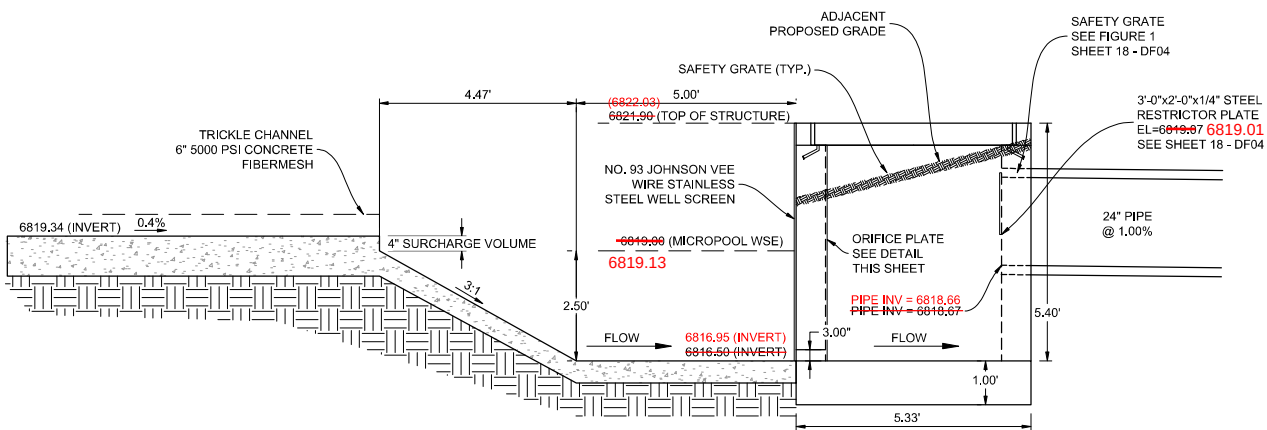


WELL SCREEN DETAILS
H: 1" = 2'



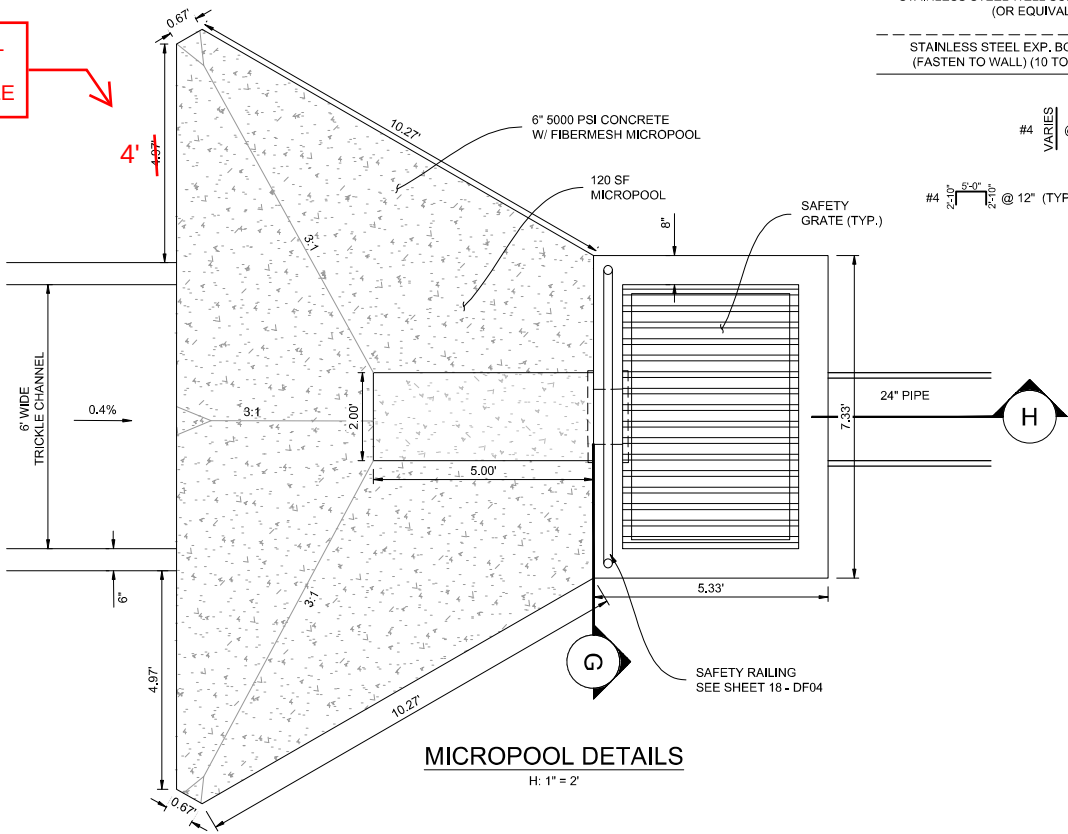
ORIFICE PLATE DETAILS
H: 1" = 2'

SECTION
NTS
G



SECTION
NTS
H

MICROPOOL
SIZE
ACCEPTABLE



MICROPOOL DETAILS
H: 1" = 2'

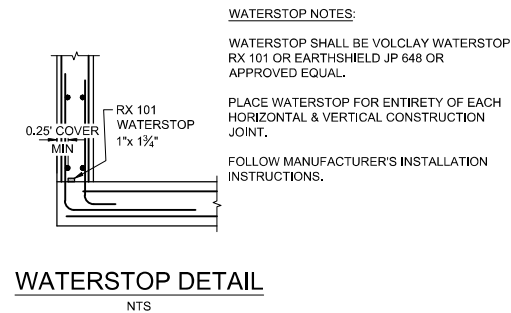
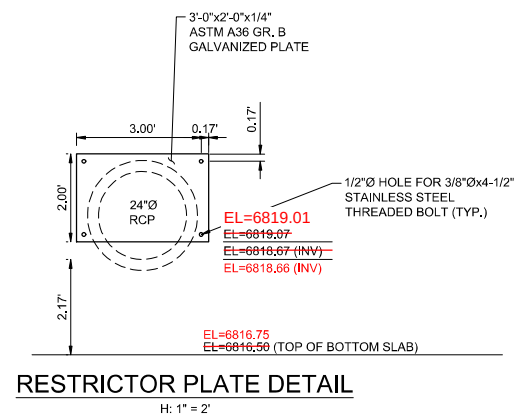
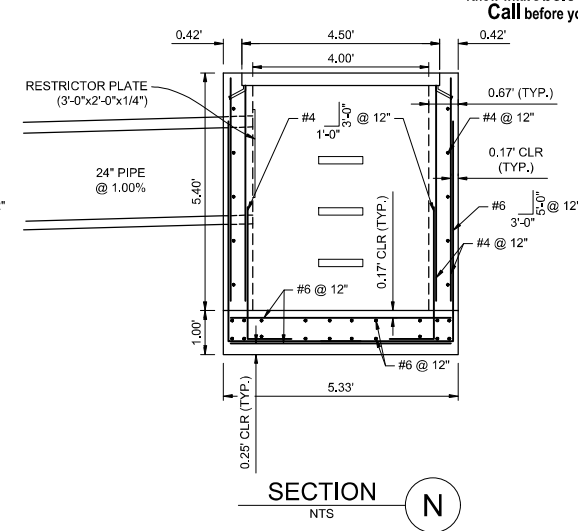
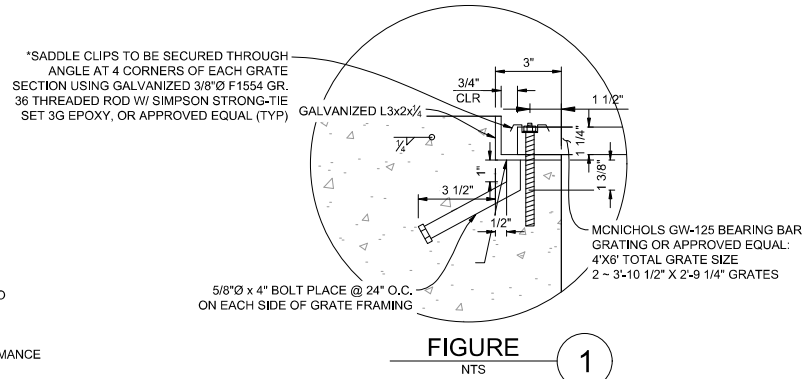
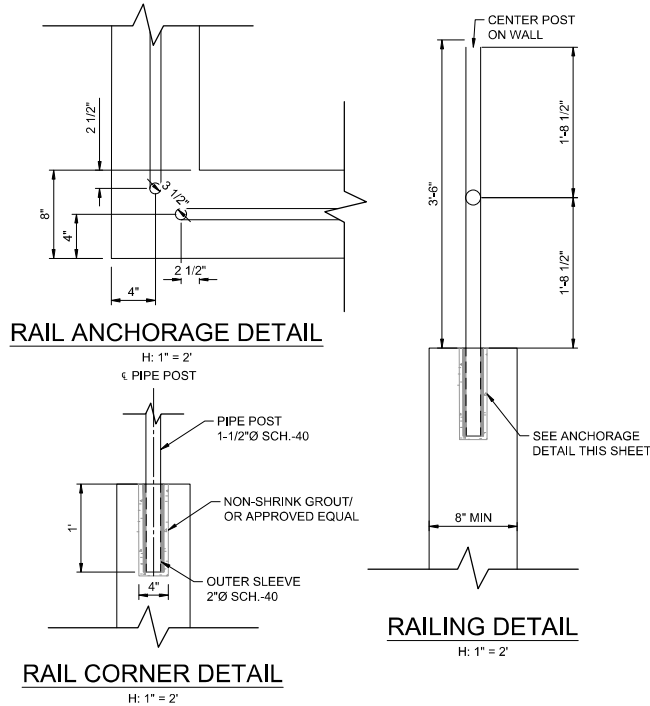
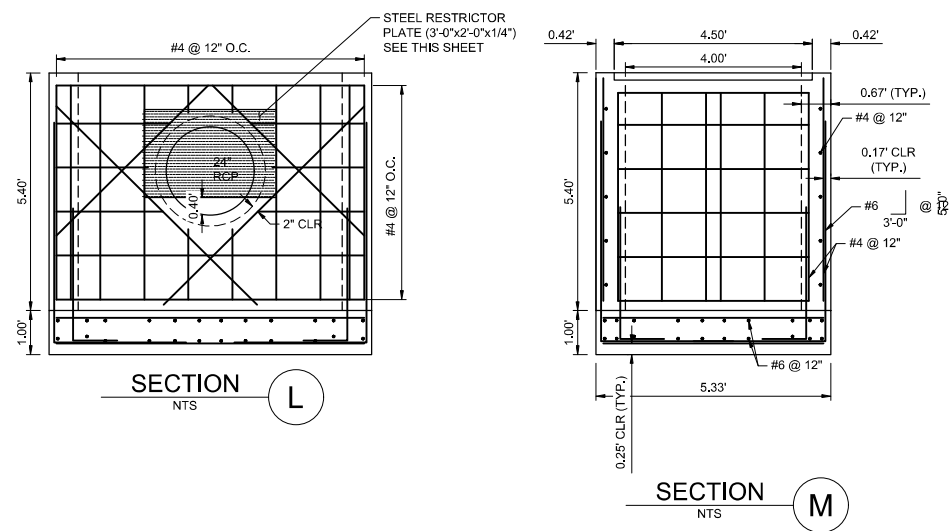
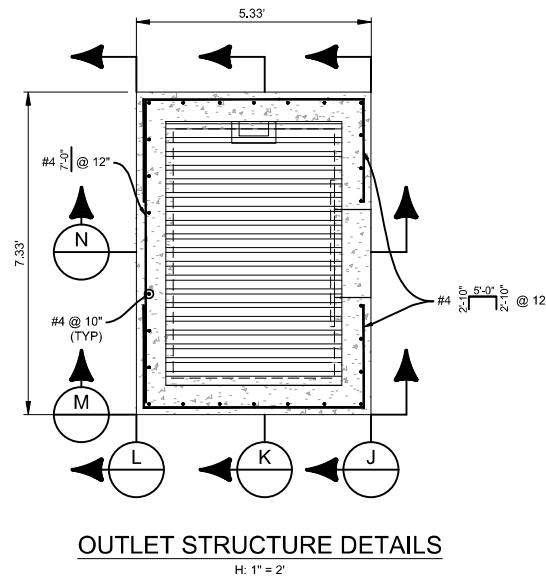
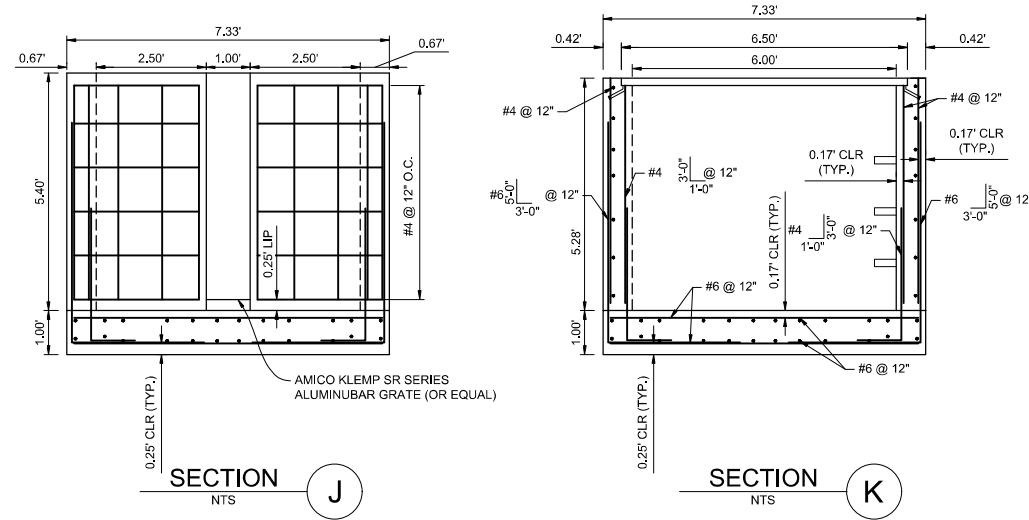
NOTES:

- ALL CONCRETE SHALL BE CDOT CLASS D; Fc= 4500 PSI
- ALL REINFORCING STEEL SHALL BE Fy: 60 KSI
- CONCRETE COVER FOR STEEL REINFORCING BARS SHALL BE AS FOLLOWS:
CONCRETE PLACED AGAINST EARTH..... 3"
CONCRETE EXPOSED TO EARTH OR WEATHER..... 2"
- ALL EXPOSED CONCRETE CORNERS SHALL HAVE A MINIMUM 3/8" CHAMFER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AS RELATED TO SHORING AND PROTECTION OF NEW AND EXISTING STRUCTURES AS NECESSARY TO PREVENT DAMAGE OR COLLAPSE DUE TO WIND, EARTH, CONSTRUCTION OR OTHER LOADS.
- STRUCTURE EXCAVATION AND BACKFILL SHALL BE IN ACCORDANCE WITH CDOT STANDARD PLAN M-206-1.
- ALL BEDDING SHALL BE A MINIMUM OF 12" THICK CDOT CLASS 6 COMPACTED TO NOT LESS THAN 95% MAXIMUM DENSITY DETERMINED IN CONFORMANCE WITH AASHTO T 180.
- INLET STEPS SHALL BE ALUMINUM & CONFORM TO CITY OF COLORADO SPRINGS STANDARD DETAIL D-200.
- WINGWALLS AND POND STRUCTURE WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CDOT STANDARD M-601-20

FILE LOCATION: S:\CIRCLE K\HWY 24 & MERIDIAN\DWG\PLAN SET\SITE DEVELOPMENT PLANS\DF01.DWG

FILE LOCATION: S:\CIRCLE K HWY 24 & MERIDIAN\DWG\PLAN SET\SITE DEVELOPMENT PLANS\DWG.DWG

- NOTES:
1. ALL CONCRETE SHALL BE CDOT CLASS D; $F_c = 4500$ PSI
 2. ALL REINFORCING STEEL SHALL BE $F_y = 60$ KSI
 3. CONCRETE COVER FOR STEEL REINFORCING BARS SHALL BE AS FOLLOWS:
CONCRETE PLACED AGAINST EARTH..... 3"
CONCRETE EXPOSED TO EARTH OR WEATHER..... 2"
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THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AS RELATED TO SHORING AND PROTECTION OF NEW AND EXISTING STRUCTURES TO PREVENT COLLAPSE DUE TO WIND, EARTH, CONSTRUCTION OR OTHER LOADS.
 5. STRUCTURE EXCAVATION AND BACKFILL SHALL BE IN ACCORDANCE WITH CDOT STANDARD PLAN M-206-1.
 6. ALL BEDDING SHALL BE A MINIMUM OF 12" THICK CDOT CLASS 6 COMPACTED TO NOT LESS THAN 95% MAXIMUM DENSITY DETERMINED IN CONFORMANCE WITH AASHTO T 180.
 7. INLET STEPS SHALL BE ALUMINUM & CONFORM TO CITY OF COLORADO SPRINGS STANDARD DETAIL D-20D.
 8. WINGWALLS AND POND STRUCTURE WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CDOT STANDARD M-601-20



CONSULTANTS:

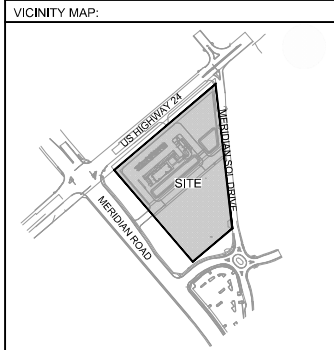
Matrix
Excellence by Design
2435 RESEARCH PARKWAY, SUITE
300 COLORADO SPRINGS, CO 80920
PHONE: (719) 575-0100

LAND DEVELOPMENT
CONSULTANTS, LLC
950 S. CHERRY ST., SUITE 512
DENVER, CO 80246
OWNER/DEVELOPER:

CIRCLE K
ROCKY MOUNTAINS DIVISION
5500 S QUEBEC STREET, SUITE 100
GREENWOOD VILLAGE, CO 80111
PHONE: (720) 758-6223

SEAL

PROFESSIONAL ENGINEER
05/23/24
FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE
MOST RECENT PROJECT CONSTRUCTION DOCUMENTS.
MATRIX DESIGN GROUP IS NOT RESPONSIBLE FOR
CHANGES, ALTERATIONS, OR USE OF CONSTRUCTION
DOCUMENTS PRIOR TO JURISDICTIONAL APPROVAL.



PROJECT:

CIRCLE K STORES INC.

100% CONSTRUCTION DOCUMENTS

**HIGHWAY 24 & MERIDIAN ROAD
FALCON, CO**

REVISION HISTORY:		
NO.	DATE	DESCRIPTION
1	09/06/2022	PER REVIEW COMMENTS
2	09/30/2022	75% CD SUBMITTAL
3	10/07/2022	100% CD SUBMITTAL
4	12/02/2022	CD 1ST RE-SUBMITTAL
5	01/19/2023	CD 2ND RE-SUBMITTAL

DRAWING INFORMATION:

PROJECT NO: 21.1207.037

DRAWN BY: LCB

CHECKED BY: NMS

DESIGNED BY: NMS

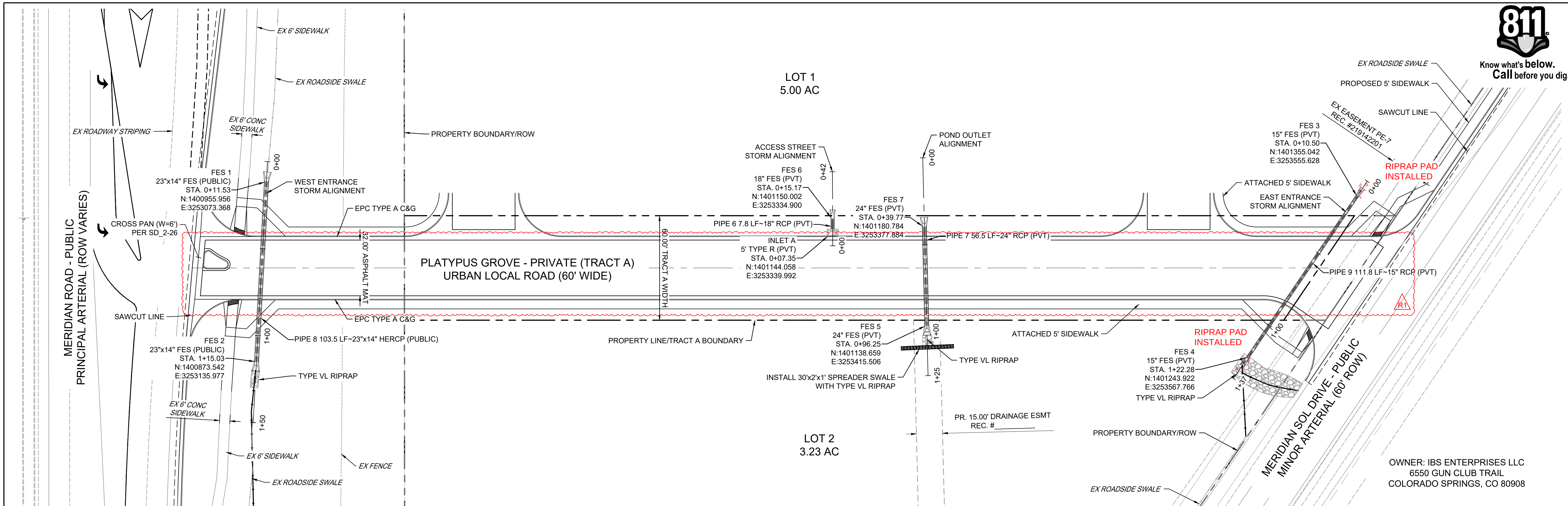
SHEET TITLE:

**POND DETAILS
AS-BUILTS**

SHEET 18 OF 19
DF04

PCD FILING NO.: PPR2230 ISSUE DATE: MAY 2024

FILE LOCATION: S:\CIRCLE K HWY 24 & MERIDIAN\DWG\PLAN SETS\OFF-SITE\CDSSD01.DWG



CONSULTANTS:

Matrix

2435 RESEARCH PARKWAY, SUITE 300
COLORADO SPRINGS, CO 80920
PHONE: (719) 575-0100

LAND DEVELOPMENT CONSULTANTS, LLC

950 S. CHERRY ST., SUITE 512
DENVER, CO 80246

OWNER/DEVELOPER:

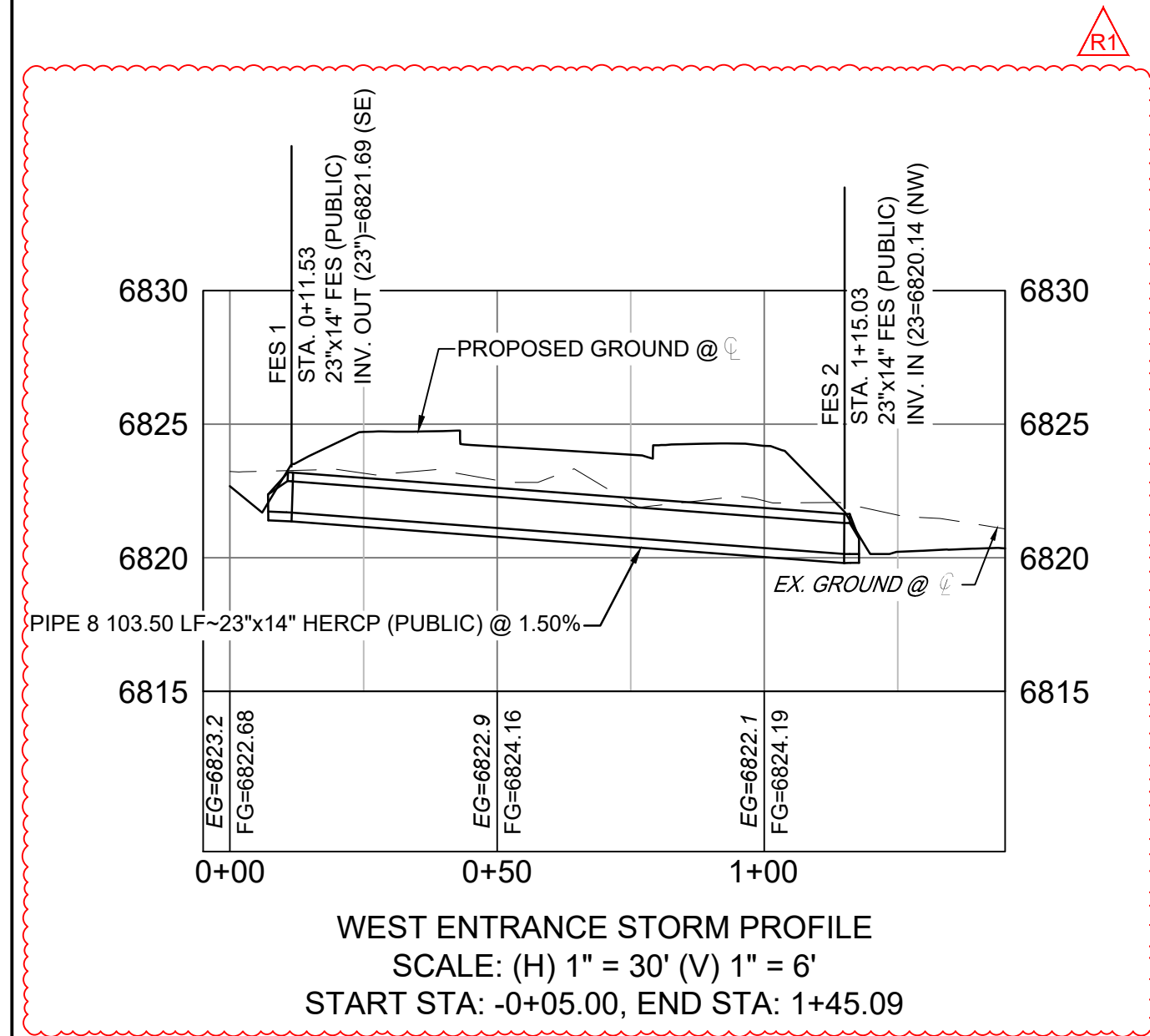
CIRCLE K

ROCKY MOUNTAINS DIVISION
5500 S. QUEBEC STREET, SUITE 100
GREENWOOD VILLAGE, CO 80111
PHONE: (720) 758-6223

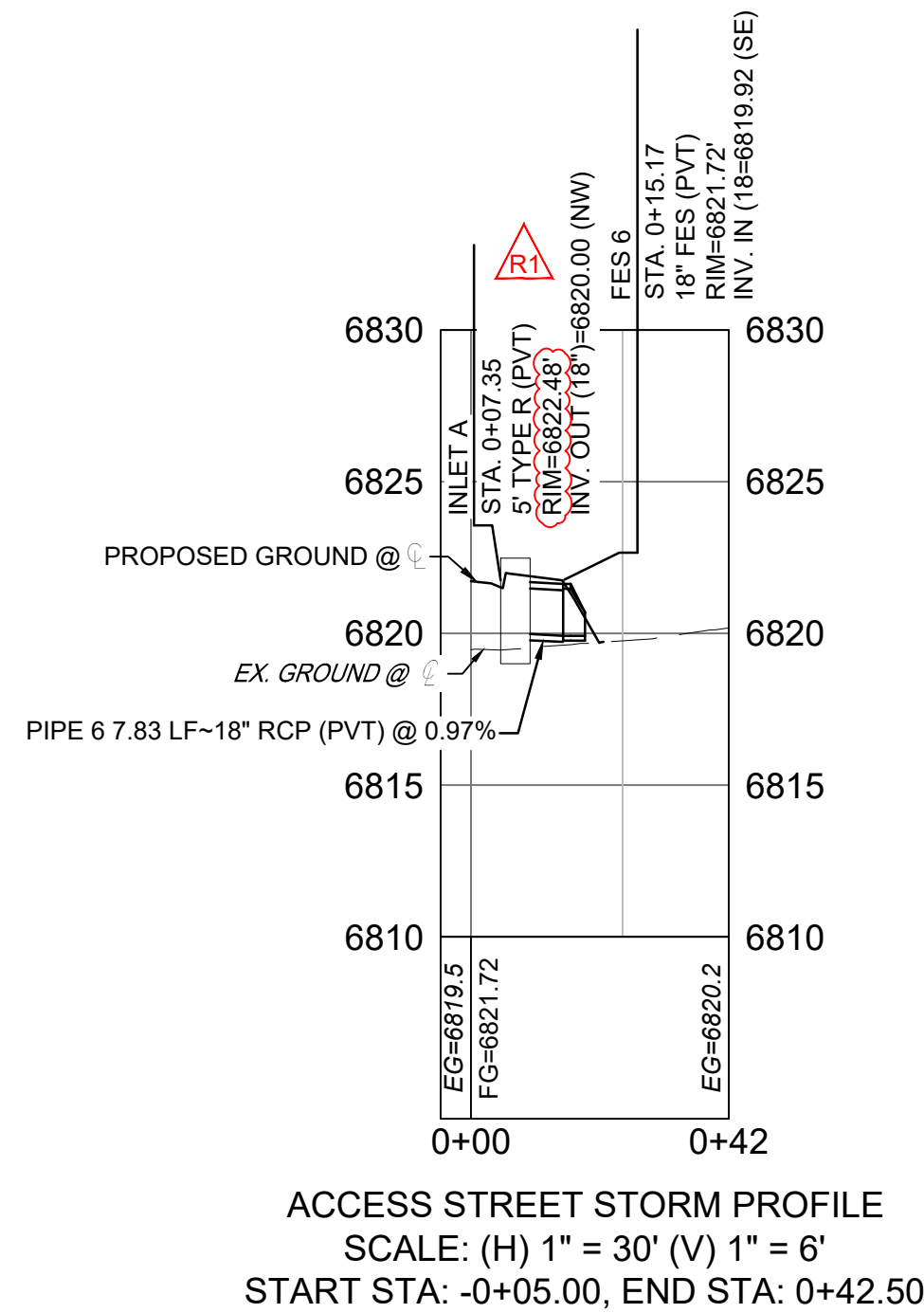
SEAL

FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
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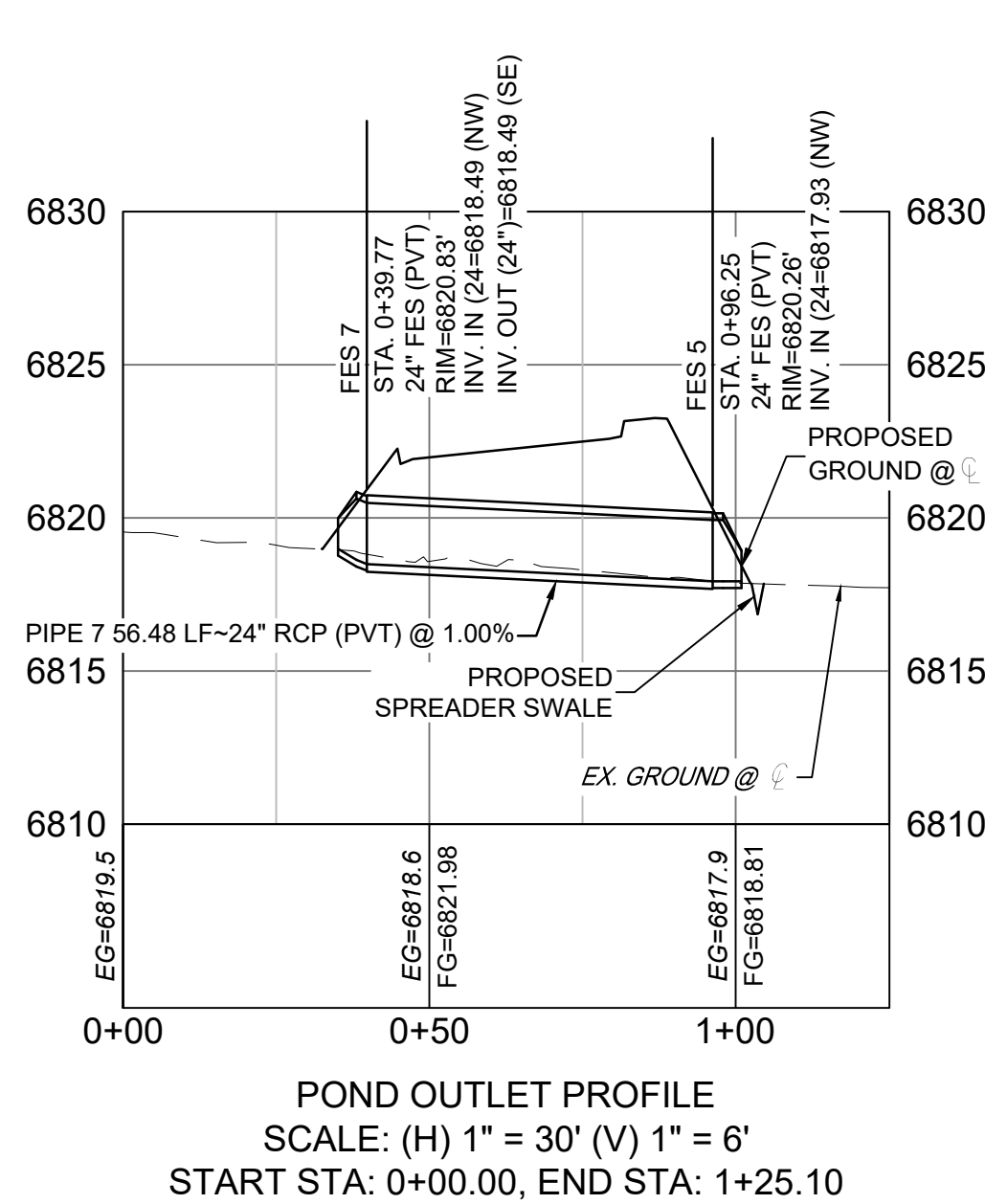
VICINITY MAP: NTS



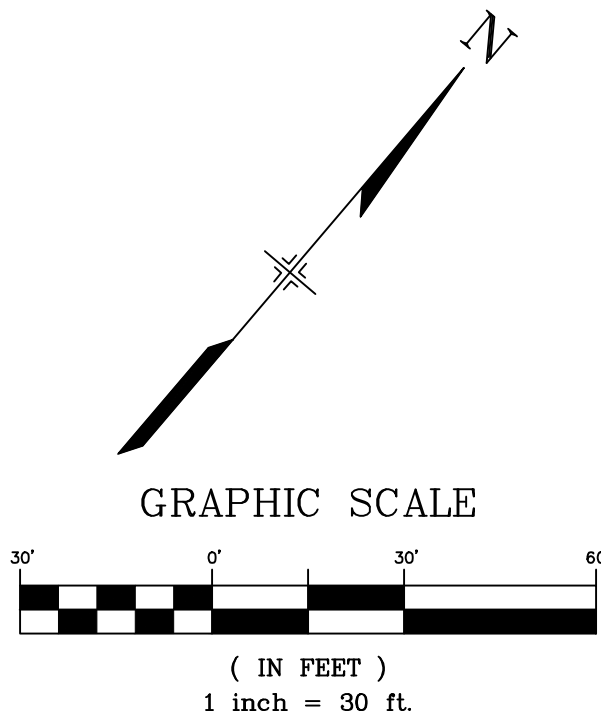
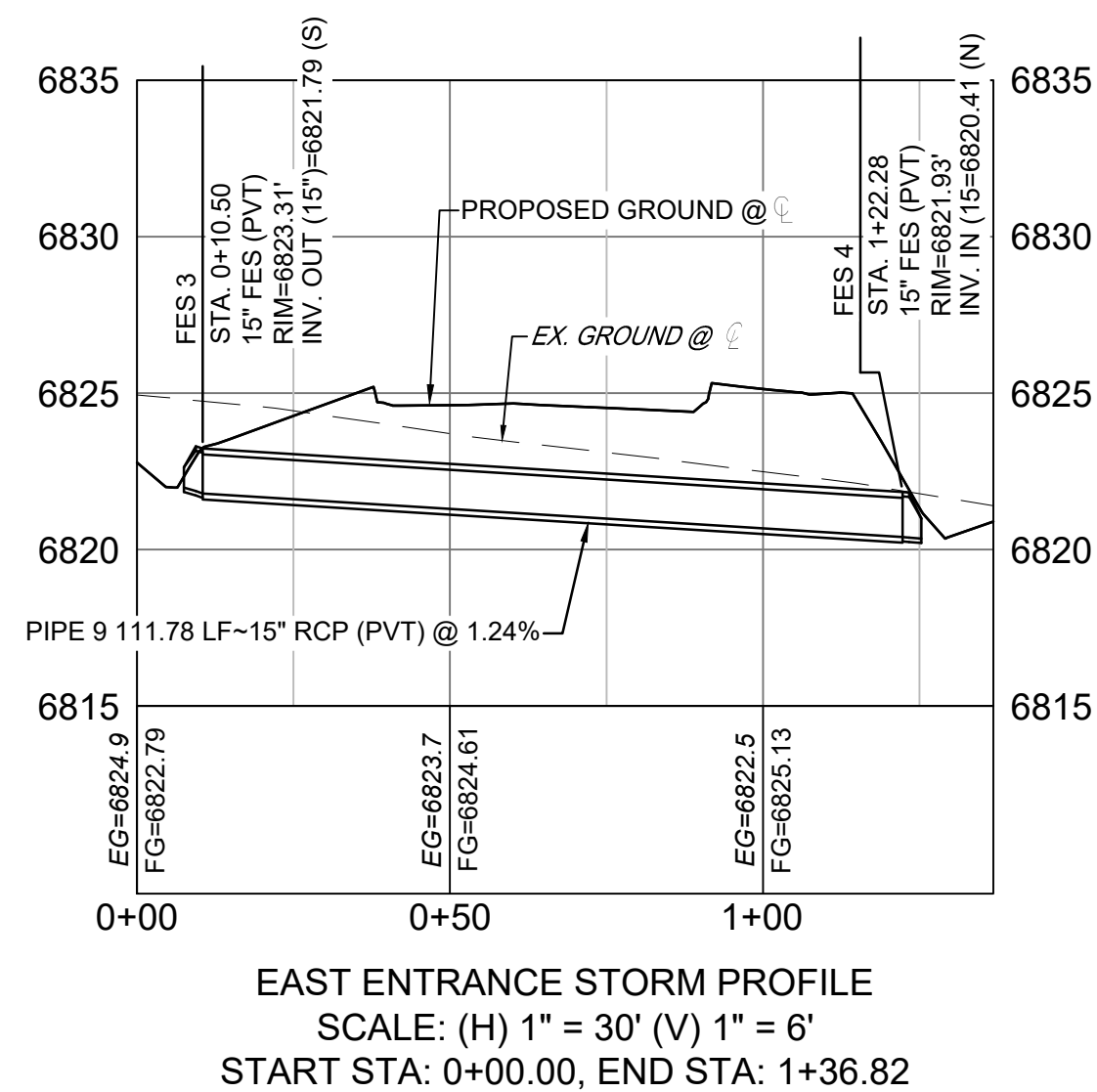
STRUCTURE TABLE			
NAME	TYPE	DETAILS	N & E
FES 1	23"x14" FES (PUBLIC)	RIM = 6823.27 PIPE 8 INV OUT (23") = 6821.69	N: 1400955.96 E: 3253073.37
FES 2	23"x14" FES (PUBLIC)	RIM = 6821.72 PIPE 8 INV IN (23") = 6820.14	N: 1400873.54 E: 3253135.98
FES 3	15" FES (PVT)	RIM = 6823.31 PIPE 9 INV OUT (15") = 6821.79	N: 1401355.04 E: 3253555.63
FES 4	15" FES (PVT)	RIM = 6821.93 PIPE 9 INV IN (15") = 6820.41	N: 1401243.92 E: 3253567.77
FES 5	24" FES (PVT)	RIM = 6820.26 PIPE 7 INV IN (24") = 6817.93	N: 1401138.66 E: 3253415.51
FES 6	18" FES (PVT)	RIM = 6821.72 PIPE 6 INV IN (18") = 6819.92	N: 1401150.00 E: 3253334.90
FES 7	24" FES (PVT)	RIM = 6820.83 PIPE 12 INV IN (24") = 6818.49 PIPE 7 INV OUT (24") = 6818.49	N: 1401180.78 E: 3253377.88
INLET A	5' TYPE R (PVT)	RIM = 6822.48 PIPE 6 INV OUT (18") = 6820.00	N: 1401144.06 E: 3253339.99



PIPE TABLE				
PIPE NAME	BEARING	LENGTH	SLOPE	SIZE
PIPE 6	N40°35'14"W	7.8'	0.97%	18" RCP (PVT)
PIPE 7	S41°46'04"E	56.5'	1.00%	24" RCP (PVT)
PIPE 8	S37°13'23"E	103.5'	1.50%	23"x14" HERCP (PUBLIC)
PIPE 9	S06°14'02"E	111.8'	1.24%	15" RCP (PVT)



- NOTES:
- ALL STATION, OFFSET, NORTHING AND EASTING VALUES ARE TO THE CENTER OF ALL STRUCTURES UNLESS OTHERWISE NOTED.
 - PIPE LENGTHS ARE MEASURED FROM CENTER TO CENTER OF ALL STRUCTURES.
 - CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING STRUCTURES.
 - ALL RCP PIPE SHALL BE CLASS III UNLESS OTHERWISE NOTED.
 - PIPES OF DIFFERENT SIZES ARE TO BE MATCHED TO THE CROWN OF THE INSIDE WALL OF PIPE.
 - PER THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL, MANHOLES SHALL BE INSTALLED 1/8" BELOW THE SURFACE OF THE PAVEMENT ON THE LOWEST SIDE OF THE MANHOLE.
 - TOP OF BOX ELEVATIONS GIVEN FOR CDOT TYPE R INLETS REFER TO THE COUNTY STANDARD DETAIL FOR CORRESPONDING DESIGN ELEVATIONS.



PROJECT:

CIRCLE K STORES INC.

FINAL PLAT OFFSITE CDS

CIRCLE K - US24 & MERIDIAN FALCON, CO

REVISION HISTORY:

NO.	DATE	DESCRIPTION	BY
R1	07/16/2025	REVISED ACCESS ROAD DESIGN	LCB

DRAWING INFORMATION:

PROJECT NO: 21.1207.037

DRAWN BY: RPD

CHECKED BY: NMS

DESIGNED BY: NMS

SHEET TITLE:

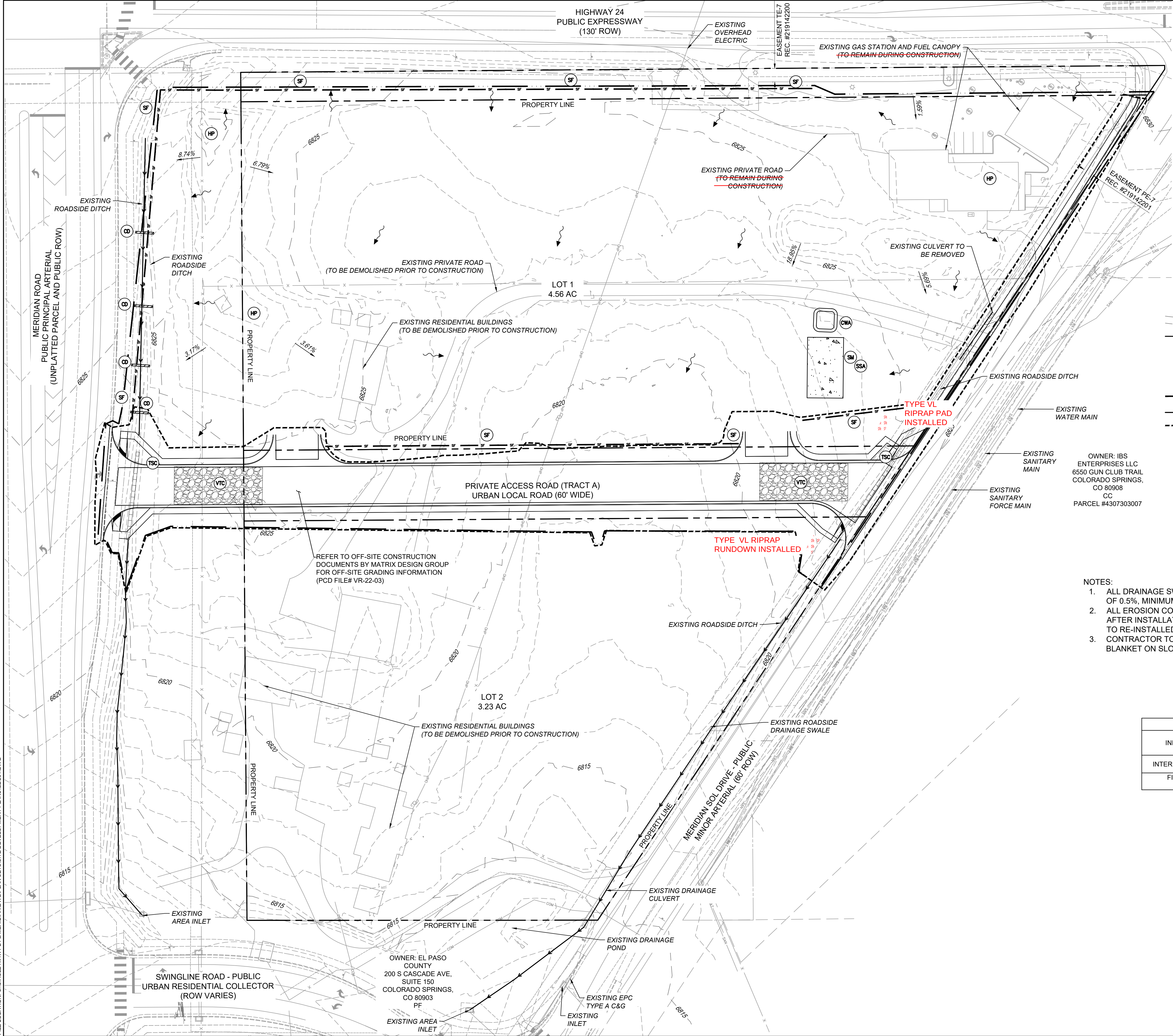
STORM DRAIN PLAN & PROFILE

AS-BUILTS

SHEET 10 OF 14

SD01

PCD FILING NO.: VR-22-03 ISSUE DATE: JANUARY 2023



EROSION CONTROL LEGEND

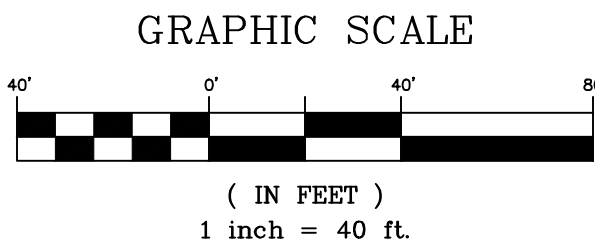
- SF SILT FENCE
- SCL SEDIMENT CONTROL LOG
- CD CHECK DAM
- VTC VEHICLE TRACKING CONTROL
- TSC TEMPORARY STREAM CROSSING
- CWA CONCRETE WASHOUT
- SM STOCKPILE MANAGEMENT / STABILIZED STAGING AREA
- CIP CULVERT INLET PROTECTION / OUTLET PROTECTION
- HP HIGH POINT / LOW POINT
- LP LOW POINT / HIGH POINT
- 5975 EXISTING CONTOURS
- 2% DRAINAGE SWALE
- 2% SLOPE LABEL
- OVERLAND FLOW
- OVERFLOW ROUTE
- LIMITS OF DISTURBANCE / CONSTRUCTION SITE BOUNDARY
- PROPERTY LINE
- OFFSITE CONSTRUCTION LIMITS (SEE PCD FILE #VR-22-03)

OWNER: IBS
ENTERPRISES LLC
6550 GUN CLUB TRAIL
COLORADO SPRINGS,
CO 80908
CC
PARCEL #4307303007

- NOTES:
- ALL DRAINAGE SWALES SHALL HAVE A MINIMUM LONGITUDINAL SLOPE OF 0.5%, MINIMUM 1.5' DEPTH, AND MAXIMUM 3:1 SIDE SLOPES.
 - ALL EROSION CONTROL BLANKET SHALL BE INSPECTED 24-MONTHS AFTER INSTALLATION. EROSION CONTROL BLANKET MAY BE REQUIRED TO RE-INSTALLED PER MANUFACTURER SPECIFICATIONS.
 - CONTRACTOR TO USE SLOPE TRACKING OR EROSION CONTROL BLANKET ON SLOPES 3:1 OR GREATER

BMP SEQUENCING	
INITIAL	SILT FENCE, CONSTRUCTION FENCE, VEHICLE TRACKING, TEMP STREAM CROSSINGS, CHECK DAMS
INTERIM/FINAL	SEDIMENT CONTROL LOGS, INLET PROTECTION, STOCKPILES, STAGING
FINAL	EROSION CONTROL BLANKETS, SEEDING & MULCHING

N



PCD FILING NO.: PPR2230

CONSULTANTS:

Matrix
Excellence by Design
2435 RESEARCH PARKWAY, SUITE
300 COLORADO SPRINGS, CO 80920
PHONE: (719) 575-0100

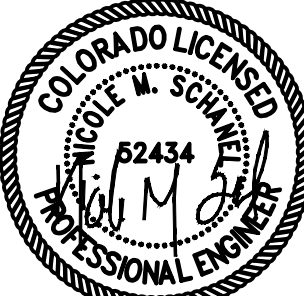
LAND DEVELOPMENT
CONSULTANTS, LLC
950 S. CHERRY ST., SUITE 512
DENVER, CO 80246

OWNER/DEVELOPER:



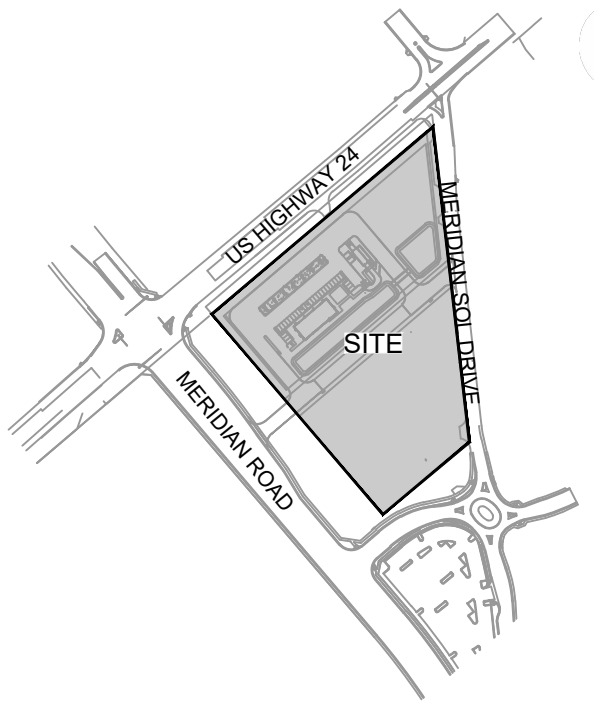
ROCKY MOUNTAINS DIVISION
5500 S QUEBEC STREET, SUITE 100
GREENWOOD VILLAGE, CO 80111
PHONE: (720) 758-6223

SEAL



FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE
MOST RECENT PROJECT CONSTRUCTION DOCUMENTS.
MATRIX DESIGN GROUP IS NOT RESPONSIBLE FOR
CHANGES, ALTERATIONS, OR USE OF CONSTRUCTION
DOCUMENTS PRIOR TO JURISDICTIONAL APPROVAL.

VICINITY MAP:



PROJECT:

CIRCLE K STORES INC.

**GRADING & EROSION CONTROL
PLANS
HIGHWAY 24 & MERIDIAN ROAD
FALCON, CO**

REVISION HISTORY:

NO.	DATE	DESCRIPTION	BY

DRAWING INFORMATION:

PROJECT NO: 21.1207.037

DRAWN BY: LCB

CHECKED BY: NMS

DESIGNED BY: NMS

SHEET TITLE:

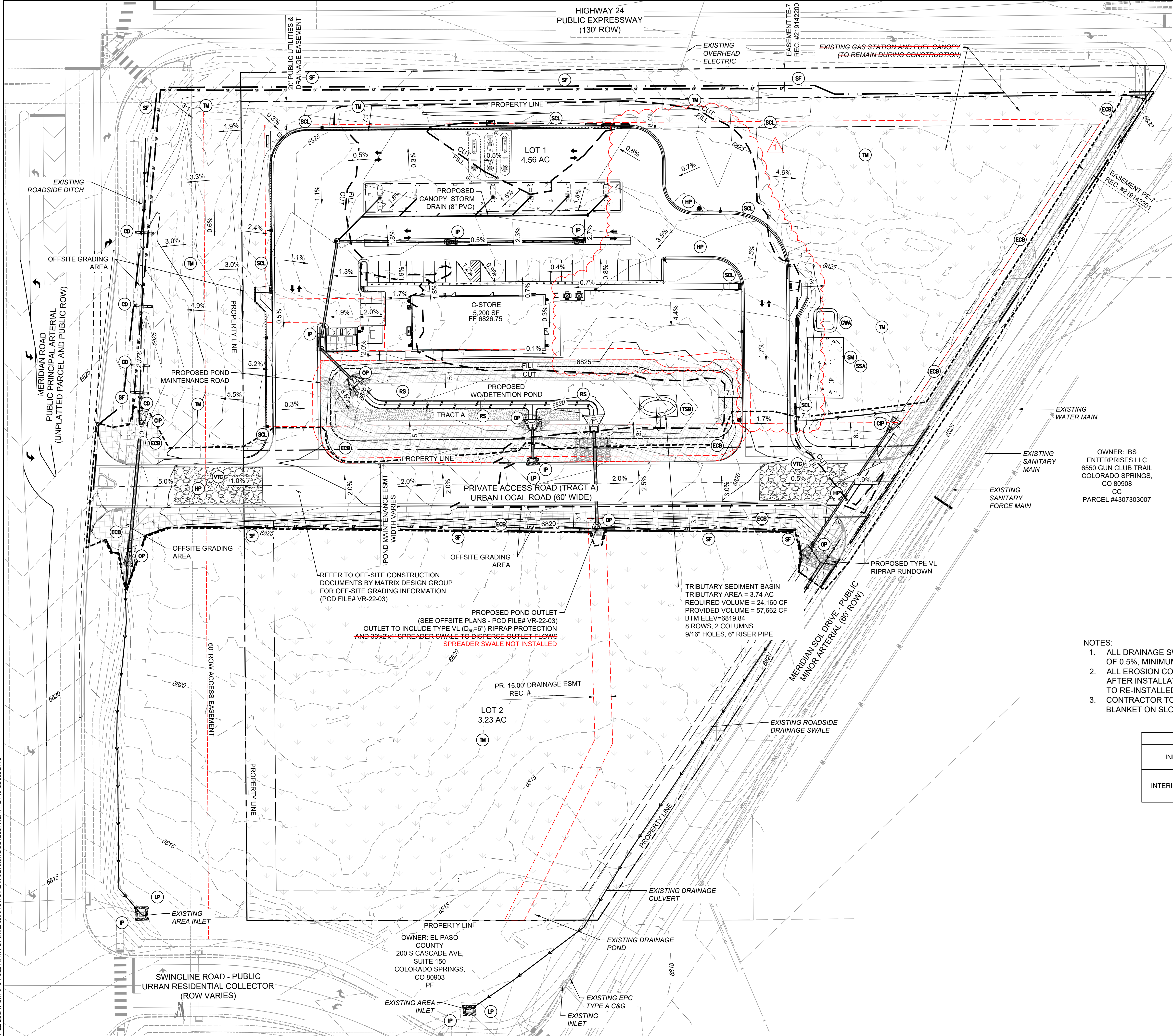
**INITIAL GRADING
& EROSION
CONTROL PLAN**
AS-BUILTS

**SHEET 3 OF 7
GEC01**

ISSUE DATE: JANUARY 2023

FILE LOCATION: S:\CIRCLE K HWY 24 & MERIDIAN\DWG\PLAN SETS\SITE DEVELOPMENT\PLANS\GEC01.DWG

FILE LOCATION: S:\CIRCLE K HWY 24 & MERIDIAN\DWG\PLAN SETS\SITE DEVELOPMENT PLANS\GEC02.DWG

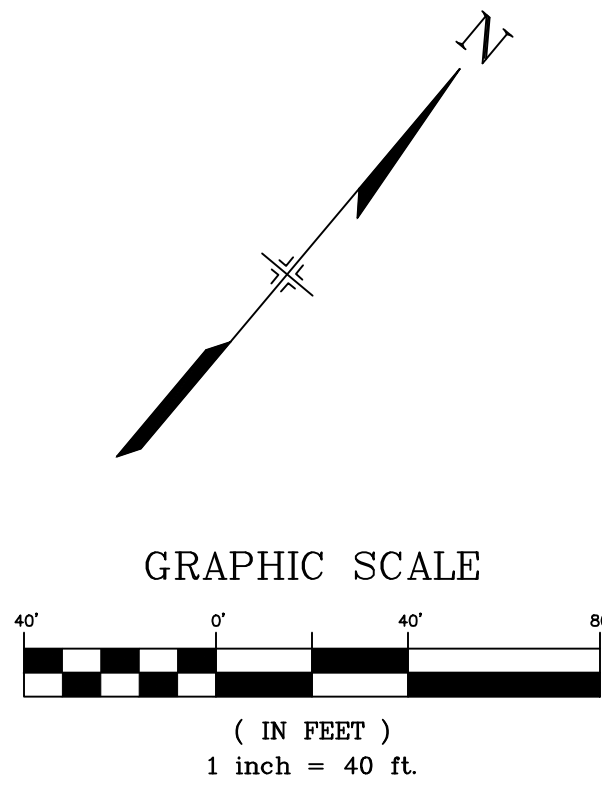


EROSION CONTROL LEGEND

- ST SLOPE TRACKING
- SR SURFACE ROUGHENING
- SF SILT FENCE
- ECB EROSION CONTROL BLANKET
- TM TEMPORARY MULCHING AND SEEDING
- SCL SEDIMENT CONTROL LOG
- CD CHECK DAM
- RS ROCK SOCK
- VTC VEHICLE TRACKING CONTROL
- TSB TEMPORARY SEDIMENT BASIN
- CWA CONCRETE WASHOUT
- SM SSA STOCKPILE MANAGEMENT / STABILIZED STAGING AREA
- CIP OP CULVERT INLET PROTECTION / OUTLET PROTECTION
- IP INLET PROTECTION
- HP LP HIGH POINT / LOW POINT
- PROPOSED CONTOURS
- EXISTING CONTOURS
- DRAINAGE SWALE
- SLOPE LABEL
- OVERLAND FLOW
- LIMITS OF DISTURBANCE/ CONSTRUCTION SITE BOUNDARY
- PROPERTY LINE
- OVERFLOW ROUTE
- CUT / FILL LINE
- PROPOSED EASEMENT
- OFFSITE CONSTRUCTION LIMITS (SEE PCD FILE #VR-22-03)

- NOTES:
- ALL DRAINAGE SWALES SHALL HAVE A MINIMUM LONGITUDINAL SLOPE OF 0.5%, MINIMUM 1.5' DEPTH, AND MAXIMUM 3:1 SIDE SLOPES.
 - ALL EROSION CONTROL BLANKET SHALL BE INSPECTED 24-MONTHS AFTER INSTALLATION. EROSION CONTROL BLANKET MAY BE REQUIRED TO RE-INSTALLED PER MANUFACTURER SPECIFICATIONS.
 - CONTRACTOR TO USE SLOPE TRACKING OR EROSION CONTROL BLANKET ON SLOPES 3:1 OR GREATER

BMP SEQUENCING	
INITIAL	SILT FENCE, CONSTRUCTION FENCE, VEHICLE TRACKING, TEMP STREAM CROSSINGS, CHECK DAMS
INTERIM / FINAL	SEDIMENT CONTROL LOGS, INLET PROTECTION, STOCKPILES, STAGING, EROSION CONTROL BLANKETS, SEEDING & MULCHING



CONSULTANTS:

Matrix
Excellence by Design
2435 RESEARCH PARKWAY, SUITE 300
COLORADO SPRINGS, CO 80920
PHONE: (719) 575-0100

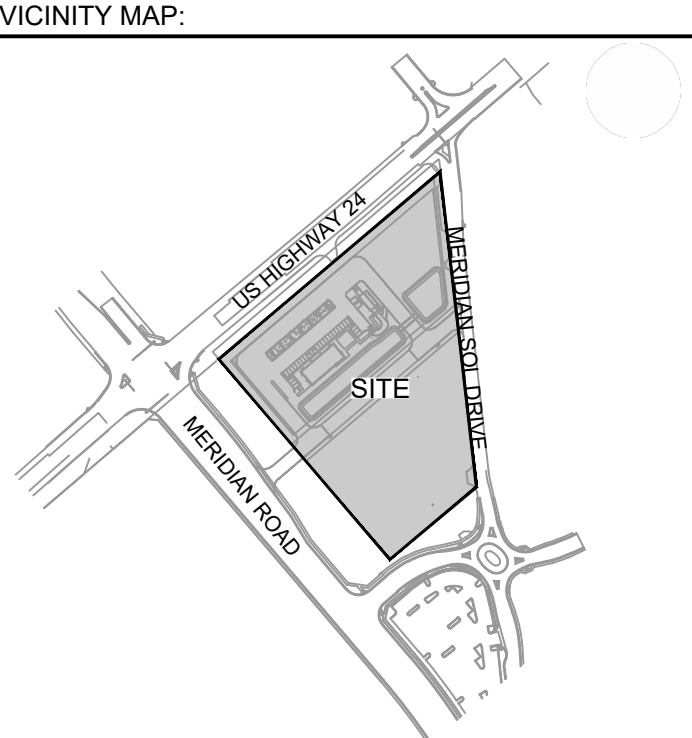
LAND DEVELOPMENT
CONSULTANTS, LLC
950 S. CHERRY ST., SUITE 510
DENVER, CO 80246

OWNER:

CIRCLE K
CST METRO, LLC
19500 BULVERDE ROAD, SUITE 100
SAN ANTONIO TX, 78259
PHONE: (720) 758-6223

SEAL

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PROJECT:

CIRCLE K STORES INC.

GRADING & EROSION CONTROL PLANS
HIGHWAY 24 & MERIDIAN ROAD
FALCON, CO

REVISION HISTORY:

NO.	DATE	DESCRIPTION	BY
1	06/02/2025	CD ADDENDUM 1	

DRAWING INFORMATION:

PROJECT NO: 21.1207.037
DRAWN BY: LCB
CHECKED BY: NMS
DESIGNED BY: NMS
SHEET TITLE:

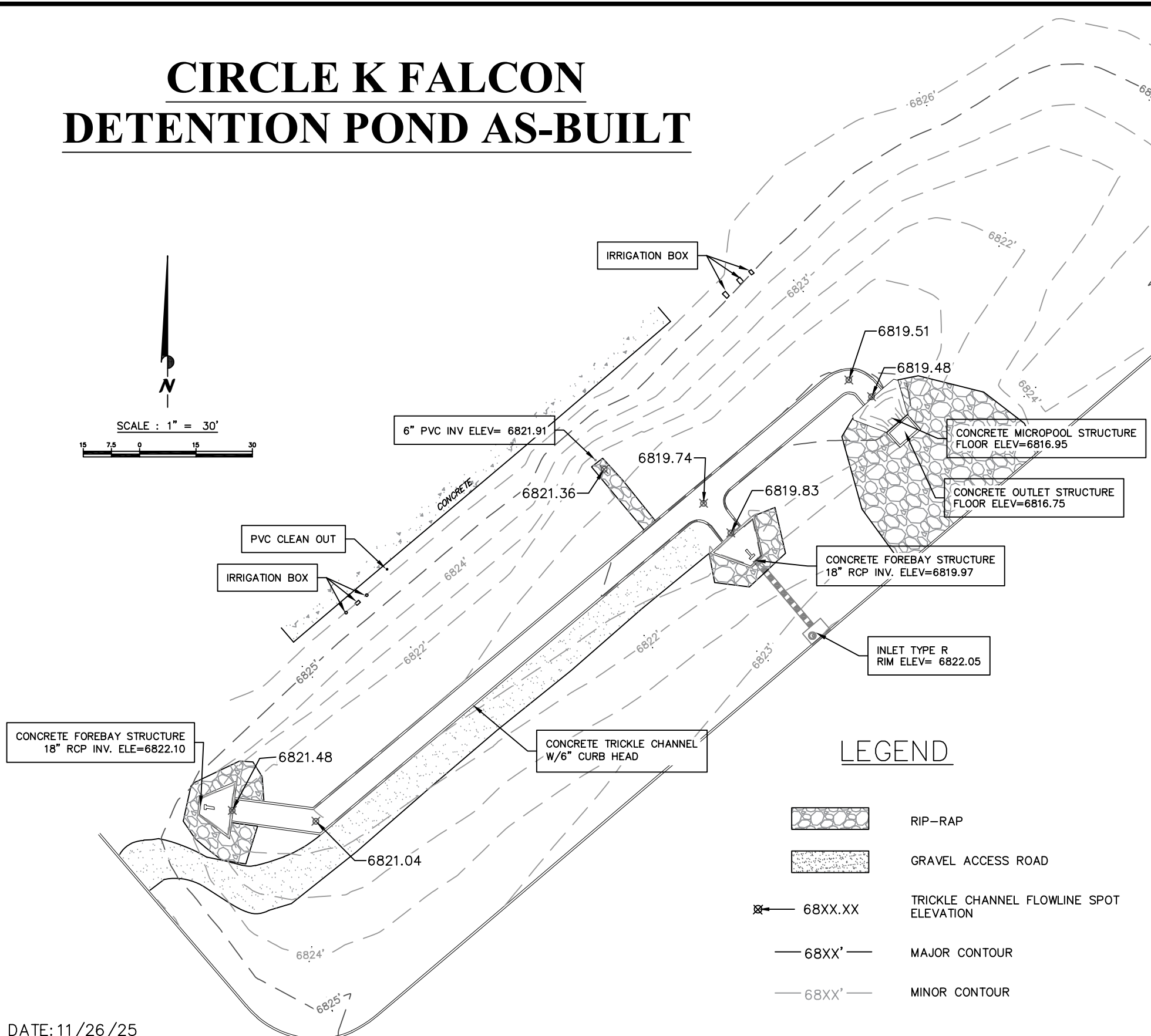
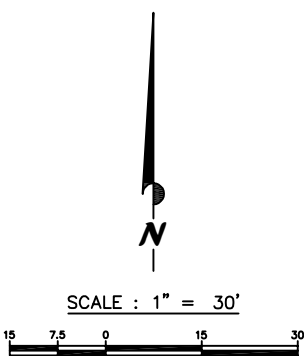
**INTERIM/FINAL
GRADING &
EROSION
CONTROL PLAN**

AS-BUILTS

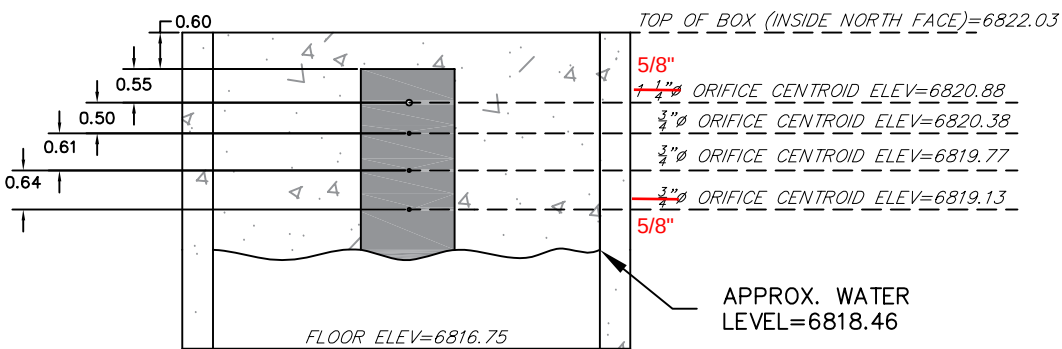
**SHEET 4 OF 7
GEC02**

ISSUE DATE: MARCH 2024

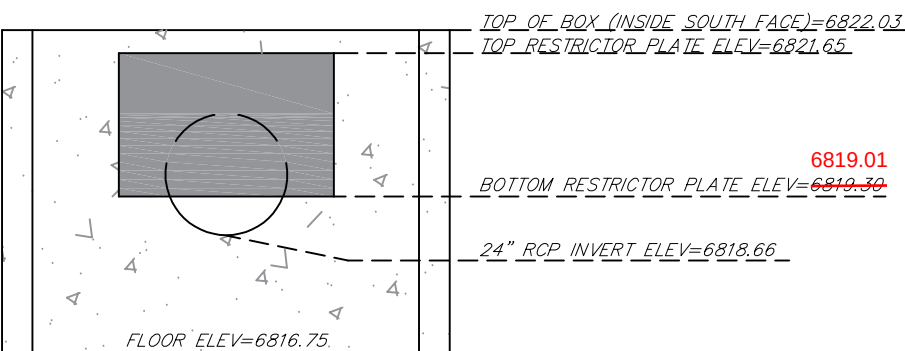
CIRCLE K FALCON DETENTION POND AS-BUILT



ORIFICE PLATE DETAIL
N.T.S.



RESTRICTOR PLATE DETAIL
N.T.S.



DATE: 11/26/25

CIRCLE K FALCON
HIGHWAY 24 & MERIDIAN ROAD – FALCON, COLORADO

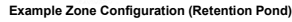
POLARIS SURVEYING, INC.
1903 Lelaray Street, Suite 102
COLORADO SPRINGS, CO 80909
(719)448-0844 FAX (719)448-9225



COPESTONE

MHFD-Detention, Version 4.04 (February 2021)

Basin ID: North Detention/WQ Pond

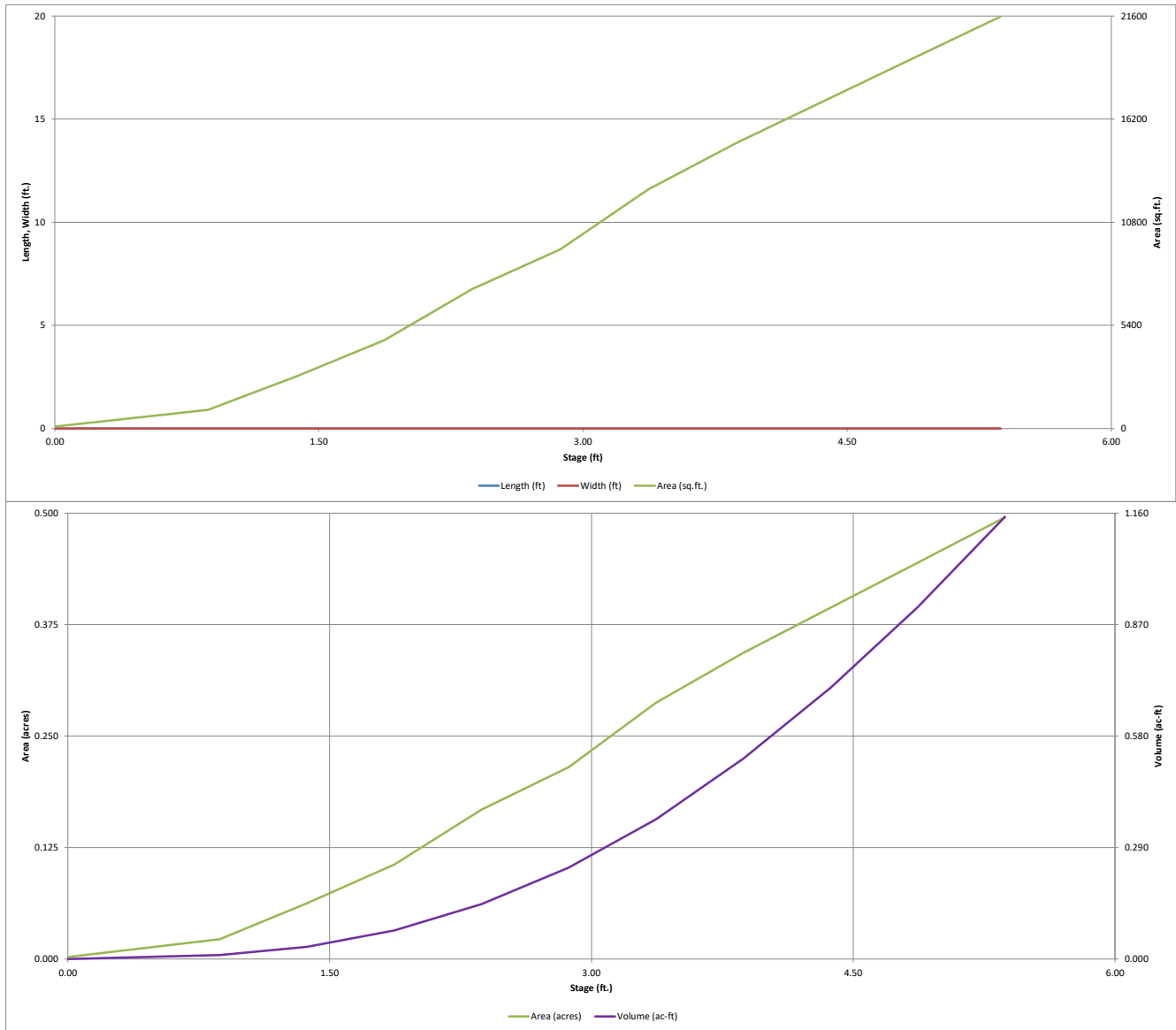


Initial Surcharge Area (A_{ISV}) =	<u>user</u>	ft ²
Surcharge Volume Length (L_{ISV}) =	<u>user</u>	ft
Surcharge Volume Width (W_{ISV}) =	<u>user</u>	ft
Depth of Basin Floor (H_{FLOOR}) =	<u>user</u>	ft
Length of Basin Floor (L_{FLOOR}) =	<u>user</u>	ft
Width of Basin Floor (W_{FLOOR}) =	<u>user</u>	ft
Area of Basin Floor (A_{FLOOR}) =	<u>user</u>	ft ²
Volume of Basin Floor (V_{FLOOR}) =	<u>user</u>	ft ³
Depth of Main Basin (H_{MAIN}) =	<u>user</u>	ft
Length of Main Basin (L_{MAIN}) =	<u>user</u>	ft
Width of Main Basin (W_{MAIN}) =	<u>user</u>	ft
Area of Main Basin (A_{MAIN}) =	<u>user</u>	ft ²
Volume of Main Basin (V_{MAIN}) =	<u>user</u>	ft ³
Calculated Total Basin Volume (V_{total}) =	user	acre-feet

Optional User Overrides	
	acre-feet
	acre-feet
1.19	inches
1.50	inches
1.75	inches
2.00	inches
2.25	inches
2.52	inches
3.55	inches

DETENTION BASIN STAGE-STORAGE TABLE BUILDER

MHFD-Detention, Version 4.04 (February 2021)

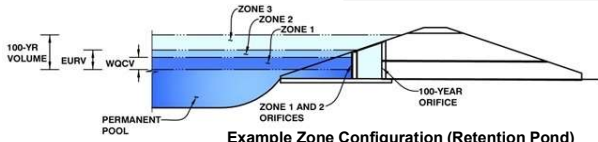


DETENTION BASIN OUTLET STRUCTURE DESIGN

MHFD-Detention, Version 4.04 (February 2021)

Project: **Circle K at Highway 24 & Meridian AS-BUILTS**

Basin ID: **North Detention/WQ Pond**



Example Zone Configuration (Retention Pond)

	Estimated Stage (ft)	Estimated Volume (ac-ft)	Outlet Type
Zone 1 (WQCV)	1.92	0.079	Orifice Plate
Zone 2 (EURV)	3.15	0.222	Circular Orifice
Zone 3 (100-year)	3.66	0.149	Weir&Pipe (Restrict)
Total (all zones)		0.450	

User Input: Orifice at Underdrain Outlet (typically used to drain WQCV in a Filtration BMP)

Underdrain Orifice Invert Depth = ft (distance below the filtration media surface)
Underdrain Orifice Diameter = inches

Calculated Parameters for Underdrain

Underdrain Orifice Area = ft²
Underdrain Orifice Centroid = feet

User Input: Orifice Plate with one or more orifices or Elliptical Slot Weir (typically used to drain WQCV and/or EURV in a sedimentation BMP)

Invert of Lowest Orifice = ft (relative to basin bottom at Stage = 0 ft)
Depth at top of Zone using Orifice Plate = ft (relative to basin bottom at Stage = 0 ft)
Orifice Plate: Orifice Vertical Spacing = inches
Orifice Plate: Orifice Area per Row = inches

Calculated Parameters for Plate

WQ Orifice Area per Row = ft²
Elliptical Half-Width = feet
Elliptical Slot Centroid = feet
Elliptical Slot Area = ft²

User Input: Stage and Total Area of Each Orifice Row (numbered from lowest to highest)

	Row 1 (required)	Row 2 (optional)	Row 3 (optional)	Row 4 (optional)	Row 5 (optional)	Row 6 (optional)	Row 7 (optional)	Row 8 (optional)
Stage of Orifice Centroid (ft)	0.00	0.64	1.14					
Orifice Area (sq. inches)	0.30	0.44	0.44					

	Row 9 (optional)	Row 10 (optional)	Row 11 (optional)	Row 12 (optional)	Row 13 (optional)	Row 14 (optional)	Row 15 (optional)	Row 16 (optional)
Stage of Orifice Centroid (ft)								
Orifice Area (sq. inches)								

User Input: Vertical Orifice (Circular or Rectangular)

Invert of Vertical Orifice = ft (relative to basin bottom at Stage = 0 ft)
Depth at top of Zone using Vertical Orifice = ft (relative to basin bottom at Stage = 0 ft)
Vertical Orifice Diameter = inches

Calculated Parameters for Vertical Orifice

Zone 2 Circular
Vertical Orifice Area = ft²
Vertical Orifice Centroid = feet

User Input: Overflow Weir (Dropbox with Flat or Sloped Gate and Outlet Pipe OR Rectangular/Trapezoidal Weir (and No Outlet Pipe)

Zone 3 Weir
Overflow Weir Front Edge Height, Ho = ft (relative to basin bottom at Stage = 0 ft)
Overflow Weir Front Edge Length = feet
Overflow Weir Gate Slope = H:V
Horiz. Length of Weir Sides = feet
Overflow Gate Type = %
Debris Clogging % = %

Calculated Parameters for Overflow Weir

Zone 3 Weir
Height of Gate Upper Edge, H_g = feet
Overflow Weir Slope Length = feet
Gate Open Area / 100-yr Orifice Area =
Overflow Gate Open Area w/o Debris = ft²
Overflow Gate Open Area w/ Debris = ft²

User Input: Outlet Pipe w/ Flow Restriction Plate (Circular Orifice, Restrictor Plate, or Rectangular Orifice)

Zone 3 Restrictor
Depth to Invert of Outlet Pipe = ft (distance below basin bottom at Stage = 0 ft)
Outlet Pipe Diameter = inches
Restrictor Plate Height Above Pipe Invert = inches

Calculated Parameters for Outlet Pipe w/ Flow Restriction Plate

Zone 3 Restrictor
Outlet Orifice Area = ft²
Outlet Orifice Centroid = feet
Half-Central Angle of Restrictor Plate on Pipe = radians

User Input: Emergency Spillway (Rectangular or Trapezoidal)

Spillway Invert Stage = ft (relative to basin bottom at Stage = 0 ft)
Spillway Crest Length = feet
Spillway End Slopes = H:V
Freeboard above Max Water Surface = feet

Calculated Parameters for Spillway

Spillway Design Flow Depth = feet
Stage at Top of Freeboard = feet
Basin Area at Top of Freeboard = acres
Basin Volume at Top of Freeboard = acre-ft

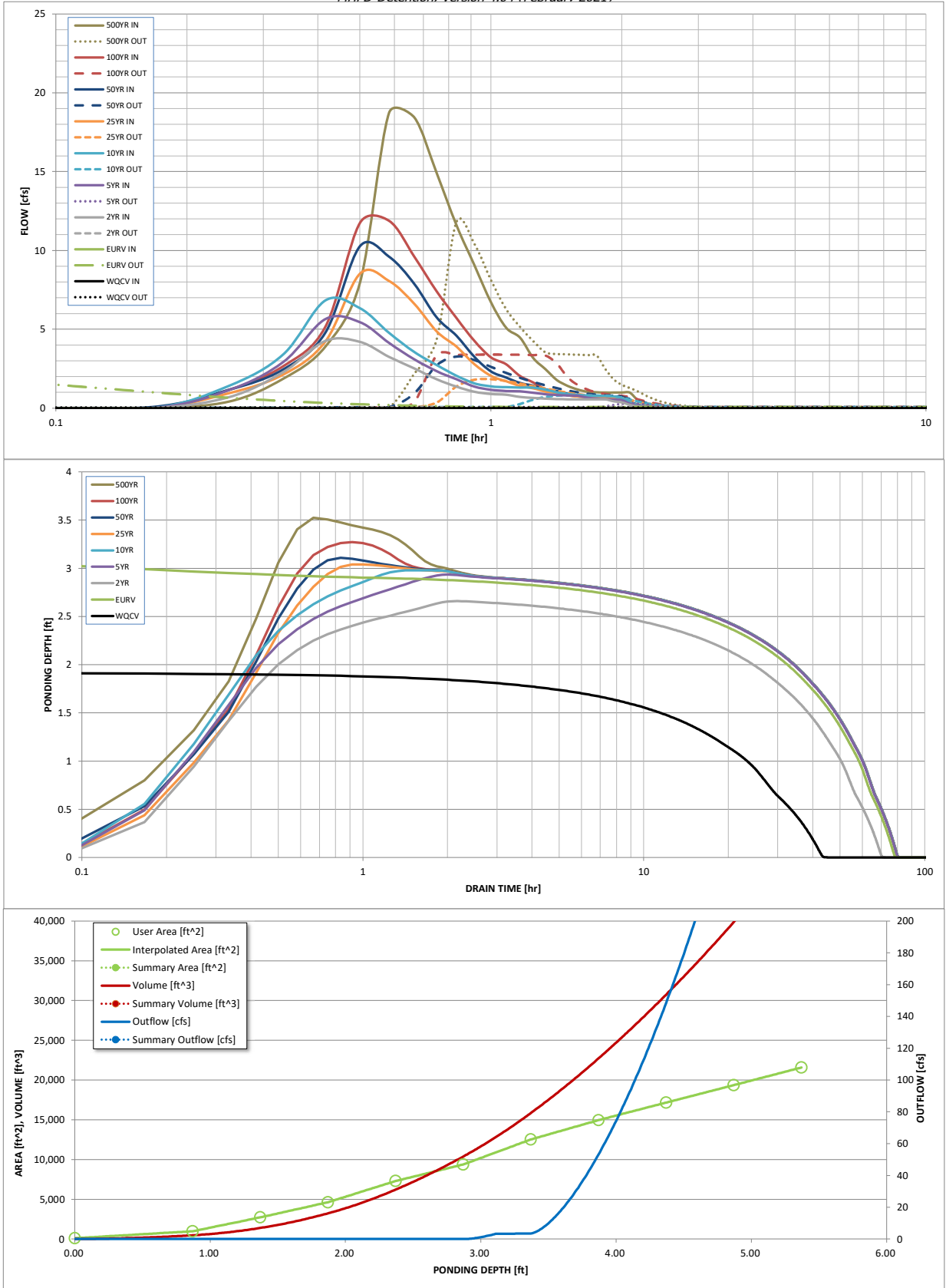
Routed Hydrograph Results

The user can override the default CUHP hydrographs and runoff volumes by entering new values in the Inflow Hydrographs table (Columns W through AF).

	WQCV	EURV	2 Year	5 Year	10 Year	25 Year	50 Year	100 Year	500 Year
Design Storm Return Period =									
One-Hour Rainfall Depth (in) =	N/A	N/A	1.19	1.50	1.75	2.00	2.25	2.52	3.55
CUHP Runoff Volume (acre-ft) =	0.079	0.301	0.205	0.269	0.320	0.387	0.453	0.533	0.829
Inflow Hydrograph Volume (acre-ft) =	N/A	N/A	0.205	0.269	0.320	0.387	0.453	0.533	0.829
CUHP Predevelopment Peak Q (cfs) =	N/A	N/A	0.0	0.1	0.1	1.0	2.0	3.3	7.6
OPTIONAL Override Predevelopment Peak Q (cfs) =	N/A	N/A							
Predevelopment Unit Peak Flow, q (cfs/acre) =	N/A	N/A	0.01	0.02	0.03	0.27	0.53	0.86	2.00
Peak Inflow Q (cfs) =	N/A	N/A	4.3	5.6	6.8	8.5	10.3	11.9	18.7
Peak Outflow Q (cfs) =	0.0	3.0	0.1	0.3	0.8	1.8	3.3	3.4	11.8
Ratio Peak Outflow to Predevelopment Q =	N/A	N/A	N/A	3.6	7.1	1.8	1.6	1.0	1.6
Structure Controlling Flow =	Vertical Orifice 1	Outlet Plate 1	Vertical Orifice 1	Overflow Weir 1	Overflow Weir 1	Overflow Weir 1	Outlet Plate 1	Outlet Plate 1	Spillway
Max Velocity through Gate 1 (fps) =	N/A	0.17	N/A	0.0	0.0	0.1	0.2	0.2	0.2
Max Velocity through Gate 2 (fps) =	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Time to Drain 97% of Inflow Volume (hours) =	37	62	57	65	64	62	61	59	55
Time to Drain 99% of Inflow Volume (hours) =	40	71	64	73	72	71	70	68	65
Maximum Ponding Depth (ft) =	1.92	3.14	2.66	2.94	2.98	3.04	3.11	3.27	3.52
Area at Maximum Ponding Depth (acres) =	0.11	0.25	0.19	0.22	0.23	0.24	0.25	0.27	0.30
Maximum Volume Stored (acre-ft) =	0.080	0.301	0.193	0.251	0.260	0.277	0.294	0.336	0.408

DETENTION BASIN OUTLET STRUCTURE DESIGN

MHFD-Detention, Version 4.04 (February 2021)



S-A-V-D Chart Axis Override	X-axis	Left Y-Axis	Right Y-Axis
minimum bound			
maximum bound			