CLOVERLEAF FILING NO. 2

LOCATED IN NE1/4 OF SECTION 23 AND NW1/4 OF SECTION 24, TOWNSHIP 11 SOUTH, RANGE 67 WEST OF THE 6TH P.M., COUNTY OF EL PASO, STATE OF COLORADO

CONSTRUCTION PLANS

CONTACTS:

OWNER/DEVELOPER	PT CLOVERLEAF, LLC 1864 WOODMOOR DRIVE, SUITE 100 COLORADO SPRINGS, CO 80920 P~719-476-0800
ENGINEER/SURVEYOR	JR ENGINEERING, LLC ATTN: MIKE A. BRAMLETT 5475 TECH CENTER DRIVE, SUITE 235 COLORADO SPRINGS, CO 80919 P~303-267-6240
FIRE PROTECTION DISTRICT	TRI-LAKES MONUMENT FPD 16055 OLD FOREST POINT, SUITE 103 MONUMENT, CO 80132 P~719-484-0911
DISTRICT	WOODMOOR WATER & SANITATION DISTRICT NO. 1 1845 WOODMOOR DRIVE MONUMENT, CO 80132 P~719-488-2525 EXT. 0
EL PASO COUNTY	PLANNING AND COMMUNITY DEVELOPMENT 2880 INTERNATIONAL CIRCLE, SUIT 110 COLORADO SPRINGS, CO 80910 P~719-520-6819
	DEPARTMENT OF PUBLIC WORKS 3275 AKERS DR COLORADO SPRINGS, CO 80922 P~719-529-6460

PROJECT LOCATION MAP

SCALE: 1"=1,000'

SHEET INDEX

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2	LEGEND AND GENERAL NOTES
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15	MILL AND OVERLAY PLAN
16	CURB RETURN PROFILES
17-18	SIGNAGE AND STRIPING PLAN
19-20	COUNTY DETAILS

OWNER/DEVELOPER STATEMENT

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

JOE DESJARDIN — DATE

PROTERRA PROPERTIES, LLC
1864 WOODMOOR DRIVE, SUITE 100
MONUMENT, CO. 80132

EL PASO COUNTY STATEMENT

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.

JENNIFER IRVINE, P.E. — DATE

COUNTY ENGINEER/ECM ADMINISTRATOR

ENGINEER'S STATEMENT

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECT 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 PLAN 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.

COLORADO REGISTERED MIKE A. BRAMLETT 32314 PROFESSIONAL ENGINEER

MIKE A. BRAMLETT, P.E. — DATE
COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING, LLC

BENCHMARK

NGS MONUMENT T 294 BEING MONUMENTED BY A 3-1/4" BRASS DISC SET IN A 4'X4' BOULDER, LOCATED 1.8 MILES EAST ALONG HIGBY ROAD FROM ITS INTERSECTION WITH JACKSON CREEK PARKWAY, 40 FEET SOUTH OF THE CENTERLINE OF THE ROAD, 6 FEET SOUTH OF A FENCE, AND 6.2 FEET SOUTH OF A WITNESS POST. SAID MONUMENT HAVING A PUBLISHED ELEVATION OF 7247.10 FEET, NAVD88.

BASIS OF BEARING

THE BASIS OF BEARINGS IS THE WESTERLY LINE OF TRACT, B, WOODMOOR PLACER, BEING MONUMENTED BY A 1-1/4" YELLOW PLASTIC CAP ILLEGIBLE AT BOTH ENDS. SAID LINE BEARING N26°20'33"E AS REFERENCED TO COLORADO STATE PLANE CENTRAL ZONE.

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

PCD FILE NO. SF-2123

811 Know what's below. Call before you dig.

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR
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CLOVERLEAF FILING NO. 2

COVER SHEET

SHEET 1 OF 20

JOB NO. 25158.01

LEGEND

- CURB & GUTTER
- PROPOSED WATER LINE
- PROPOSED SANITARY SEWER LINE
- PROPOSED STORM SEWER W/MANHOLE
- PROPOSED TOP OF SLOPE
- PROPOSED TOE OF SLOPE
- PROPOSED RIGHT OF WAY
- EASEMENT LINE
- EXISTING RIGHT OF WAY
- EXISTING BOUNDARY LINE
- EXISTING PROPERTY LINE
- EXISTING CURB & GUTTER
- EXISTING GASLINE
- EXISTING WATERLINE
- EXISTING ELECTRIC LINE
- EXISTING FENCE
- EXISTING SANITARY SEWER W/MANHOLE
- EXISTING STORM SEWER W/MANHOLE
- EXISTING EDGE OF ASPHALT
- EXISTING EDGE OF CONCRETE
- EXISTING BOUNDARY LINE
- EXISTING PROPERTY LINE
- EXISTNG EASEMENT LINE
- PROPOSED PLUG W/ THRUST BLOCK
- PROPOSED FIRE HYDRANT
- PROPOSED WATER TEE
- PROPOSED WATER BEND
- PROPOSED FLARED END SECTION
- PROPOSED WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING ELECTRIC PEDESTAL
- EXISTING WATER MANHOLE
- EXISTING TELEPHONE PEDESTAL
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING VALVE
- EXISTING STREET LIGHT
- EXISTING SIGN
- EXISTING TELEPHONE MANHOLE
- EXISTING FLARED END SECTION
- EXISTING WATER VALVE
- PROPOSED FLOW DIRECTION

STANDARD NOTES FOR EL PASO COUNTY CONSTRUCTION PLANS

1. ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).

3. CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOIL AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING:
   - 3.1. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
   - 3.2. CITY OF COLORADO SPRINGS/ EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2
   - 3.3. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS AND BRIDGE CONSTRUCTION
   - 3.4. CDOT M&S STANDARDS

4. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSIONS OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER-THE-FACT WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.

5. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ONSITE AND OFFSITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.

6. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.

7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS-ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.

8. CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND EL PASO COUNTY PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.

9. ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCD.

10. CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.

11. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.

12. SIGHT VISIBILITY TRIANGLES IDENTIFIED IN THE PLANS, SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED IN SIGHT TRIANGLES.

13. SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS AND MUTCD CRITERIA.

14. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.

15. THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.

SIGNING AND STRIPING NOTES

1. ALL SIGNS AND PAVEMENT MARKING SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

2. REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY A METHOD THAT DOES NOT MATERIALLY DAMAGE THE PAVEMENT. THE PAVEMENT MARKINGS SHALL BE REMOVED TO THE EXTENT THEY WILL NOT BE VISIBLE UNDER DAY OR NIGHT CONDITIONS. AT NO TIME WILL IT BE ACCEPTABLE TO PAINT OVER EXISTING PAVEMENT MARKINGS.

3. ANY DEVIATION FROM THE STRIPING AND SIGNING PLAN SHALL BE APPROVED BY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT.

4. ALL SIGNS SHOWN ON THE SIGNING AND STRIPING PLAN SHALL BE NEW SIGNS. EXISTING SIGNS MAY REMAIN OR BE REUSED IF THEY MEET CURRENT EL PASO COUNTY AND MUTCD STANDARDS.

5. STREET NAME AND REGULATORY STOP SIGNS SHALL BE ON THE SAME POST AT INTERSECTIONS.

6. ALL REMOVED SIGNS SHALL BE DISPOSED OF IN A PROPER MANNER BY THE CONTRACTOR.

7. ALL STREET NAME SIGNS SHALL BE "D" SERIES LETTERS, WITH LOCAL ROADWAY SIGNS BEING 4" UPPER-LOWER CASE LETTERING ON 8" BLANK AND NON-LOCAL ROADWAY SIGNS BEING 6" LETTERING. UPPER-LOWER CASE ON 12" BLANK, WITH A WHITE BORDER THAT IS NOT RECESSED. MULTI-LANE ROADWAYS WITH SPEED LIMITS OF 40 MPH OR HIGHER SHALL HAVE 8" UPPER-LOWER CASE LETTERING ON 18" BLANK WITH A WHITE BORDER THAT IS NOT RECESSED. THE WIDTH OF THE NON-RECESSED WHITE BORDERS SHALL MATCH PAGE 255 OF THE 2012 MUTCD "STANDARD HIGHWAY SIGNS".

8. ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM HIGH INTENSITY PRISMATIC GRADE SHEETING.

9. ALL LOCAL RESIDENTIAL STREET SIGNS SHALL BE MOUNTED ON A 1.75" X 1.75" SQUARE TUBE SIGN POST AND STUB POST BASE.. FOR OTHER APPLICATIONS, REFER TO THE CDOT STANDARD S-614-8 REGARDING USE OF THE P2 TUBULAR STEEL POST SLIPBASE DESIGN.

10. ALL SIGNS SHALL BE SINGLE SHEET ALUMINUM WITH 0.100" THICKNESS.

11. ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS SHALL BE A MINIMUM 125 MIL THICKNESS PREFORMED THERMOPLASTIC PAVEMENT MARKINGS WITH TAPERED LEADING EDGES PER CDOT STANDARD S-627-1. WORD AND SYMBOL MARKINGS SHALL BE THE NARROW TYPE, STOP BARS SHALL BE 24" IN WIDTH, CROSSWALK LINES SHALL BE 12" WIDE AND 8' LONG PER CDOT S-267-1.

12. ALL LONGITUDINAL LINES SHALL BE A MINIMUM 15MIL THICKNESS EPOXY PAINT. ALL NON-LOCAL RESIDENTIAL ROADWAYS SHALL INCLUDE BOTH RIGHT AND LEFT EDGE LINE STRIPING AND ANY ADDITIONAL STRIPING AS REQUIRED BY CDOT S-627-1.

13. THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (719) 520-6819 PRIOR TO AND UPON COMPLETION OF THE SIGNING AND STRIPING.

14. THE CONTRACTOR SHALL OBTAIN A WORK IN THE RIGHT OF WAY PERMIT FROM THE EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS (DPW) PRIOR TO ANY SIGNAGE OR STRIPING WORK WITHIN AN EXISTING EL PASO COUNTY ROADWAY.

Know what's **below.**
Call before you dig.

ENGINEER'S STATEMENT

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING

COLORADO REGISTERED MIKE A. BRAMLETT 32314 PROFESSIONAL ENGINEER

MIKE A. BRAMLETT, P.E. DATE
COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING, LLC

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

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No.	REVISION	BY	DATE

H-SCALE	N/A
V-SCALE	N/A
DATE	08/18/21
DESIGNED BY	N/A
DRAWN BY	N/A
CHECKED BY	

CLOVERLEAF FILING NO. 2

LEGEND AND GENERAL NOTES

SHEET 2 OF 20

JOB NO. 25158.01

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No.	REVISION	BY	DATE

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V-SCALE	N/A
DATE	08/18/21
DESIGNED BY	XXX
DRAWN BY	CRB
CHECKED BY	

CLOVERLEAF FILING NO. 2

HORIZONTAL CONTROL PLAN

ORIGINAL SCALE: 1" = 40'

Know what's below. Call before you dig.

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MIKE A. BRAMLETT, P.E.
COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING, LLC

DATE

SHEET 3 OF 20

JOB NO. 25158.01

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ORIGINAL SCALE: 1" = 40'

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COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING, LLC

DATE

COLORADO REGISTERED MIKE A. BRAMLETT 32314 PROFESSIONAL ENGINEER

CLOVERLEAF FILING NO. 2

HORIZONTAL CONTROL PLAN

SHEET 4 OF 20

JOB NO. 25158.01

40 20 0 40 80
ORIGINAL SCALE: 1" = 40'

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HORIZONTAL CONTROL PLAN

SHEET 5 OF 20

JOB NO. 25158.01

TYPICAL CROSS SECTION

N.T.S. (ALSIKE CLOVER CT, CRIMSON CLOVER DR, WHITE CLOVER DRIVE)
(PUBLIC ROAD, URBAN LOCAL, POSTED SPEED LIMIT = 25 MPH)
(*SEE PLAN VIEW FOR 20' PUE/DRAINAGE EASEMENT LOCATION)

GRAVEL TRAIL TYPICAL SECTION

N.T.S. (RUNS ALONGSIDE LEGGINS WAY)

CROSS SECTION – WALTERS POINT
STA: 5+16.67±–7+32

N.T.S. (PRIVATE ROAD, POSTED SPEED LIMIT = 25 MPH)

CROSS SECTION – WALTERS POINT
STA: 1+00–5+16.67±

N.T.S. (PRIVATE ROAD, POSTED SPEED LIMIT = 25 MPH)

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COLORADO REGISTERED MIKE A. BRAMLETT 32314 PROFESSIONAL ENGINEER

MIKE A. BRAMLETT, P.E. DATE
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CLOVERLEAF FILING NO. 2

TYPICAL SECTIONS

SHEET 6 OF 20

JOB NO. 25158.01

NOTES

1. ALL PROFILE ELEVATIONS ARE CENTERLINE UNLESS OTHERWISE NOTED.
2. ALL POINT TABULATIONS ARE FLOWLINE UNLESS OTHERWISE NOTED.
3. SEE SHEET 2 FOR LEGEND.
4. SEE SHEETS 6 FOR TYPICAL STREET SECTIONS.
5. SEE SHEETS 16 FOR CURB RETURN PROFILES.
6. SEE SHEETS 17–18 FOR SIGNAGE AND STRIPING.
7. ALL TYPE R INLETS SHALL CONFORM TO CDOT M&S M 604–12
8. ALL CURB RAMPS REQUIRE A CURB AND GUTTER TYPE TRANSITION. SEE DETAIL SHEET 19.
9. WHERE CONNECTING TO EXISTING ASPHALT ROADWAYS, CONTRACTOR SHALL MAKE A 2' SAWCUT TO A CLEAN VERTICAL FACE AND MATCH THE ASPHALT SECTION AND GRADE TO THE EXISTING SECTION/GRADE.
10. ALL CURB RAMPS, SIDEWALKS, & CROSSWALKS PART OF THE PEDESTRIAN ACCESS ROUTE SHALL MEET ALL APPLICABLE REQUIREMENTS OF EL PASO CHAPTER 6 AND THE PROWAG REQUIREMENTS THEREIN AND THE LATEST ADA REGULATIONS

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ROADWAY POINT TABLULATION

POINT NUMBER	STATION	OFFSET	ALIGNMENT	ELEVATION	NOTES	DESCRIPTION
1	0+35.92	16.17' (RT)	WHITE CLOVER TERRACE	7004.69		BEGIN TYPE C C&G
1A	0+30.92	16.17' (RT)	WHITE CLOVER TERRACE	7004.59		BEGIN 0" C&G
2	0+37.21	16.17' (LT)	WHITE CLOVER TERRACE	7004.72		BEGIN TYPE C C&G
2A	0+32.21	16.17' (LT)	WHITE CLOVER TERRACE	7004.70		BEGIN 0" C&G
3B	2+56.00	17.50' (RT)	WHITE CLOVER TERRACE	7014.72		INLET SIDE TBC
3A	2+45.41	17.50' (RT)	WHITE CLOVER TERRACE	7014.15		INLET SIDE TBC
3	0+57.02	16.17' (RT)	WHITE CLOVER TERRACE	7005.11		PC
4B	2+56.30	17.50' (LT)	WHITE CLOVER TERRACE	7014.72		INLET SIDE TBC
4A	2+44.12	17.50' (LT)	WHITE CLOVER TERRACE	7014.06		INLET SIDE TBC
4	0+57.02	16.17' (LT)	WHITE CLOVER TERRACE	7005.11		PC
5B	6+25.64	17.50' (RT)	WHITE CLOVER TERRACE	7034.76		INLET SIDE TBC
5A	6+09.31	17.50' (RT)	WHITE CLOVER TERRACE	7033.87		INLET SIDE TBC
5	2+74.42	16.17' (RT)	WHITE CLOVER TERRACE	7015.22		PT
6B	6+22.90	17.50' (LT)	WHITE CLOVER TERRACE	7034.61		INLET SIDE TBC
6A	6+11.57	17.50' (LT)	WHITE CLOVER TERRACE	7033.99		INLET SIDE TBC
6	2+74.42	16.17' (LT)	WHITE CLOVER TERRACE	7015.22		PT
7	7+85.88	16.17' (RT)	WHITE CLOVER TERRACE	7042.94		PC
8	7+85.88	16.17' (LT)	WHITE CLOVER TERRACE	7042.94		PC
9A	8+98.77	16.17' (RT)	WHITE CLOVER TERRACE	7046.71		C&G TRANSITION
9B	9+08.77	17.00' (RT)	WHITE CLOVER TERRACE	7047.01		PCR
9	8+43.33	16.17' (RT)	WHITE CLOVER TERRACE	7045.51		PT
10A	8+97.76	16.17' (LT)	WHITE CLOVER TERRACE	7046.69		C&G TRANSITION
10B	9+07.76	17.00' (LT)	WHITE CLOVER TERRACE	7046.89		PCR
10	8+43.33	16.17' (LT)	WHITE CLOVER TERRACE	7045.51		PT
11	9+13.66	17.59' (RT)	WHITE CLOVER TERRACE	7047.14		RAMP MID PT
12	9+13.61	17.85' (LT)	WHITE CLOVER TERRACE	7047.01		RAMP MID PT

WHITE CLOVER TERRACE PROFILE
STA 0+00.00 TO 9+43.29

CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH
C1	49°49'25"	266.17'	231.46'
C15	86°12'36"	20.50'	30.85'
C16	49°49'25"	233.83'	203.34'
C30	80°54'56"	20.50'	28.95'
C31	16°27'33"	216.17'	62.10'
C43	16°27'33"	183.83'	52.81'

LINE TABLE

LINE	BEARING	DISTANCE
L1	S33°23'09"E	26.11'
L2	N75°34'04"E	10.03'
L3	S83°12'34"E	511.46'
L5	N80°19'53"E	55.44'
L8	S24°49'55"E	10.05'
L10	S60°56'23"E	323.19'
L36	S33°23'09"E	24.81'
L38	S83°12'34"E	511.46'
L40	N80°19'53"E	54.42'

40 20 0 40 80

HORIZONTAL
ORIGINAL SCALE: 1" = 40'
VERTICAL
ORIGINAL SCALE: 1" = 8'

811 Know what's below. Call before you dig.

ENGINEER'S STATEMENT

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING

COLORADO REGISTERED MIKE A. BRAMLETT 32314 PROFESSIONAL ENGINEER

MIKE A. BRAMLETT, P.E.
COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING, LLC

DATE

No.	REVISION	BY	DATE

H-SCALE 1" = 40'
V-SCALE 1" = 8'
DATE 08/18/21
DESIGNED BY XXX
DRAWN BY CRB
CHECKED BY

CLOVERLEAF FILING NO. 2

ROADWAY PLAN AND PROFILE

SHEET 7 OF 20

JOB NO. 25158.01

LINE TABLE		
LINE	BEARING	DISTANCE
L120	N45°38'56"W	13.86'
L121	N88°05'01"W	168.19'
L122	N88°28'28"W	9.99'
L123	N45°38'56"W	21.86'
L124	N88°05'01"W	168.25'
L125	S82°26'57"W	65.83'

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C46	42°26'06"	283.83'	210.22'
C51	42°26'06"	317.00'	234.78'

ROADWAY POINT TABLULATION						
POINT NUMBER	STATION	OFFSET	ALIGNMENT	ELEVATION	NOTES	DESCRIPTION
13	5+68.82	6.88' (RT)	WALTERS POINT	7062.40		BEGIN C&G
14A	5+04.26	16.17' (LT)	WALTERS POINT	7067.96		PI
14	5+14.26	16.23' (LT)	WALTERS POINT	7067.31		BEGIN C&G
15	5+04.33	17.00' (RT)	WALTERS POINT	7067.88		PI
16	3+36.08	16.17' (LT)	WALTERS POINT	7074.59		PC
17	3+36.08	17.00' (RT)	WALTERS POINT	7074.51		PC
18	1+13.89	16.17' (LT)	WALTERS POINT	7063.39		PT
19	1+13.89	17.00' (RT)	WALTERS POINT	7064.38		PT
20	1+00.03	16.17' (LT)	WALTERS POINT	7062.65		END C&G
21	0+92.03	17.00' (RT)	WALTERS POINT	7064.08		END C&G

WALTERS POINT PROFILE
STA 1+00.00 TO 6+00.00

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PREPARED FOR
PT CLOVERLEAF, LLC
1864 WOODMOOR DR., STE. 100
COLORADO SPRINGS, CO 80920
ATTN: JOE DESJARDIN
719-476-0800
JDESJARDIN@PROTERRACO.COM

NOTES

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2. ALL POINT TABULATIONS ARE FLOWLINE UNLESS OTHERWISE NOTED.
3. SEE SHEET 2 FOR LEGEND.
4. SEE SHEETS 6 FOR TYPICAL STREET SECTIONS.
5. SEE SHEETS 16 FOR CURB RETURN PROFILES.
6. SEE SHEETS 17–18 FOR SIGNAGE AND STRIPING.
7. ALL TYPE R INLETS SHALL CONFORM TO CDOT M&S M 604–12
8. ALL CURB RAMPS REQUIRE A CURB AND GUTTER TYPE TRANSITION. SEE DETAIL SHEET 19.
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40 20 0 40 80

HORIZONTAL
ORIGINAL SCALE: 1" = 40'
VERTICAL
ORIGINAL SCALE: 1" = 8'

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DATE

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CHECKED BY	

CLOVERLEAF FILING NO. 2

ROADWAY PLAN AND PROFILE

SHEET 8 OF 20

JOB NO. 25158.01

LINE TABLE		
LINE	BEARING	DISTANCE
L9	N79°21'28"E	10.03'
L11	N84°06'22"E	12.50'
L13	N05°52'43"W	365.82'
L15	N05°31'21"E	5.06'
L17	N06°15'26"W	4.98'
L46	N13°03'28"W	5.10'
L48	N11°51'54"E	4.92'
L50	N84°08'12"E	12.50'
L54	N03°35'02"E	5.07'
L55	N05°52'43"W	289.77'
L70	S05°52'41"E	18.35'
L89	N05°52'41"W	397.67'
L96	N88°53'06"E	10.03'
L99	S15°20'27"E	5.07'

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C19	4°40'36"	217.00'	17.71'
C20	81°40'19"	256.22'	365.22'
C44	80°55'33"	223.83'	316.14'
C45	90°00'00"	20.50'	32.20'
C47	90°00'00"	20.50'	32.20'
C48	2°14'30"	247.14'	9.67'
C49	1°45'58"	237.26'	7.31'
C50	5°29'48"	189.10'	18.14'

ROADWAY POINT TABLULATION						
POINT NUMBER	STATION	OFFSET	ALIGNMENT	ELEVATION	NOTES	DESCRIPTION
22B	17+80.38	16.17' (LT)	CRIMSON CLOVER DRIVE	7043.26		LP
22A	17+80.38	16.17' (RT)	CRIMSON CLOVER DRIVE	7043.26		LP
22	17+88.66	16.17' (RT)	CRIMSON CLOVER DRIVE	7043.28		PC
23	17+88.66	16.17' (LT)	CRIMSON CLOVER DRIVE	7043.28		PC
24	17+96.50	16.17' (RT)	CRIMSON CLOVER DRIVE	7043.32		C&G TRANSITION
25	17+97.72	16.17' (LT)	CRIMSON CLOVER DRIVE	7043.33		C&G TRANSITION
26	18+01.89	16.95' (RT)	CRIMSON CLOVER DRIVE	7043.38		RAMP PT
27	18+02.42	17.05' (LT)	CRIMSON CLOVER DRIVE	7043.38		RAMP PT
28	18+11.60	16.91' (RT)	CRIMSON CLOVER DRIVE	7043.55		RAMP MID PT
29	18+10.18	17.07' (LT)	CRIMSON CLOVER DRIVE	7043.47		RAMP MID PT
30	18+21.31	16.94' (RT)	CRIMSON CLOVER DRIVE	7043.62		RAMP PT
31	18+18.96	17.04' (LT)	CRIMSON CLOVER DRIVE	7043.57		RAMP PT
32	18+26.67	16.17' (RT)	CRIMSON CLOVER DRIVE	7043.68		C&G TRANSITION
33	18+23.49	16.19' (LT)	CRIMSON CLOVER DRIVE	7043.62		C&G TRANSITION
34B	21+88.15	17.00' (RT)	CRIMSON CLOVER DRIVE	7063.23		PCR
34A	21+78.15	16.17' (RT)	CRIMSON CLOVER DRIVE	7062.90		C&G TRANSITION
34	21+65.65	16.17' (RT)	CRIMSON CLOVER DRIVE	7062.40		PT
35A	21+78.15	16.17' (LT)	CRIMSON CLOVER DRIVE	7062.90		C&G TRANSITION
35B	21+88.15	17.00' (LT)	CRIMSON CLOVER DRIVE	7063.23		PCR
35	21+65.65	16.17' (LT)	CRIMSON CLOVER DRIVE	7062.40		PT
36	21+94.65	18.06' (RT)	CRIMSON CLOVER DRIVE	7063.41		RAMP MID PT
37	21+94.65	18.06' (LT)	CRIMSON CLOVER DRIVE	7063.37		RAMP MID PT

CRIMSON CLOVER DRIVE PROFILE 1
STA 15+00.00 TO 22+50.00

NOTES

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40 20 0 40 80

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VERTICAL
ORIGINAL SCALE: 1" = 8'

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ENGINEER'S STATEMENT

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING

MIKE A. BRAMLETT, P.E.
COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING, LLC

DATE

COLORADO REGISTERED PROFESSIONAL ENGINEER MIKE A. BRAMLETT 32314

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CHECKED BY	

CLOVERLEAF FILING NO. 2

ROADWAY PLAN AND PROFILE

SHEET 9 OF 20

JOB NO. 25158.01

LINE TABLE		
LINE	BEARING	DISTANCE
L8	S24°49'55"E	10.05'
L10	S60°56'23"E	323.19'
L12	S68°52'04"E	5.06'
L14	N85°23'23"E	5.06'
L16	N28°37'08"E	53.45'
L43	N01°06'54"W	10.03'
L87	N23°14'32"W	5.06'
L112	N76°27'34"W	5.08'
L114	N87°10'53"W	5.08'
L116	N60°56'23"W	323.20'

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C3	39°32'13"	216.17'	149.17'
C4	16°12'24"	223.40'	63.19'
C5	5°27'47"	217.00'	20.69'
C6	65°35'25"	216.17'	247.46'
C32	7°06'09"	183.83'	22.79'
C40	6°35'35"	183.00'	21.06'
C41	15°21'13"	191.82'	51.40'
C42	37°24'52"	183.83'	120.04'

ROADWAY POINT TABLULATION						
POINT NUMBER	STATION	OFFSET	ALIGNMENT	ELEVATION	NOTES	DESCRIPTION
38	8+04.85	17.00' (RT)	CRIMSON CLOVER DRIVE	7062.88		RAMP MID PT
39	8+04.85	17.00' (LT)	CRIMSON CLOVER DRIVE	7062.88		RAMP MID PT
40	8+75.60	16.17' (RT)	CRIMSON CLOVER DRIVE	7060.60		PT
41	8+75.60	16.17' (LT)	CRIMSON CLOVER DRIVE	7060.60		PT
42	11+98.79	16.17' (RT)	CRIMSON CLOVER DRIVE	7052.11		PC
43	11+98.78	16.17' (LT)	CRIMSON CLOVER DRIVE	7052.11		PC
44	13+48.87	17.00' (RT)	CRIMSON CLOVER DRIVE	7048.15		RAMP MID PT
45B	13+36.80	16.17' (LT)	CRIMSON CLOVER DRIVE	7048.49		C&G TRANSITION
45A	13+46.05	17.00' (LT)	CRIMSON CLOVER DRIVE	7048.09		PCR
45	13+50.64	17.67' (LT)	CRIMSON CLOVER DRIVE	7047.85		RAMP MID PT
46A	14+22.84	16.17' (LT)	CRIMSON CLOVER DRIVE	7047.06		C&G TRANSITION
46	14+12.84	17.00' (LT)	CRIMSON CLOVER DRIVE	7047.18		PCR
47B	14+42.43	17.50' (RT)	CRIMSON CLOVER DRIVE	7047.38		INLET SIDE TBC
47A	14+26.10	17.50' (RT)	CRIMSON CLOVER DRIVE	7047.56		INLET SIDE TBC
47	13+90.99	16.17' (RT)	CRIMSON CLOVER DRIVE	7047.45		PT

CRIMSON CLOVER DRIVE PROFILE 2
STA 7+50.00 TO 15+00.00

40 20 0 40 80

HORIZONTAL
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VERTICAL
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ENGINEER'S STATEMENT

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING

MIKE A. BRAMLETT, P.E.
COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING, LLC

COLORADO LICENSED PROFESSIONAL ENGINEER MIKE A. BRAMLETT 32314

DATE

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1864 WOODMOOR DR., STE. 100
COLORADO SPRINGS, CO 80920
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CHECKED BY	

CLOVERLEAF FILING NO. 2

ROADWAY PLAN AND PROFILE

SHEET 10 OF 20

JOB NO. 25158.01

LINE TABLE		
LINE	BEARING	DISTANCE
L16	N28°37'08"E	53.45'
L27	N23°51'19"E	10.03'
L28	N28°37'08"E	225.87'
L30	N68°45'34"E	10.06'
L35	N33°22'57"E	10.03'
L75	N33°22'57"E	10.03'
L76	N28°37'08"E	225.87'
L78	N59°01'03"E	10.06'
L107	S56°37'03"E	10.03'
L109	S23°51'19"W	10.03'

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C6	65°35'25"	216.17'	247.46'
C13	7°03'10"	18.00'	2.22'
C28	33°49'29"	216.17'	127.62'
C38	90°00'00"	20.50'	32.20'
C39	64°41'55"	183.83'	207.59'
C59	33°49'29"	183.83'	108.53'
C60	3°33'44"	217.00'	13.49'

ROADWAY POINT TABLULATION					
POINT NUMBER	STATION	OFFSET	ALIGNMENT	ELEVATION	NOTES	DESCRIPTION
48	0+48.42	17.00' (RT)	CRIMSON CLOVER DRIVE	7096.19		RAMP MID PT
49	0+50.18	17.00' (LT)	CRIMSON CLOVER DRIVE	7096.14		RAMP MID PT
50A	4+11.29	16.17' (RT)	CRIMSON CLOVER DRIVE	7078.29		C&G TRANSITION
50B	4+21.29	17.00' (RT)	CRIMSON CLOVER DRIVE	7077.83		PCR
50	1+85.42	16.17' (RT)	CRIMSON CLOVER DRIVE	7090.89		PT
51B	4+21.29	17.00' (LT)	CRIMSON CLOVER DRIVE	7077.97		PCR
51A	4+11.29	16.17' (LT)	CRIMSON CLOVER DRIVE	7078.29		C&G TRANSITION
51	1+85.42	16.17' (LT)	CRIMSON CLOVER DRIVE	7090.89		PT
52	4+27.79	18.06' (RT)	CRIMSON CLOVER DRIVE	7077.54		RAMP MID PT
53	4+27.79	18.06' (LT)	CRIMSON CLOVER DRIVE	7077.87		RAMP MID PT
54B	5+06.29	16.17' (RT)	CRIMSON CLOVER DRIVE	7075.91		C&G TRANSITION
54A	4+96.29	17.00' (RT)	CRIMSON CLOVER DRIVE	7076.11		PCR
54	4+89.79	18.06' (RT)	CRIMSON CLOVER DRIVE	7076.25		RAMP MID PT
55B	5+06.29	16.17' (LT)	CRIMSON CLOVER DRIVE	7075.91		C&G TRANSITION
55A	4+96.29	17.00' (LT)	CRIMSON CLOVER DRIVE	7076.20		PCR
55	4+89.79	18.06' (LT)	CRIMSON CLOVER DRIVE	7076.43		RAMP MID PT
56	5+59.90	16.17' (RT)	CRIMSON CLOVER DRIVE	7074.55		PC
57B	6+60.94	17.50' (LT)	CRIMSON CLOVER DRIVE	7070.43		INLET SIDE TBC
57A	6+45.92	17.50' (LT)	CRIMSON CLOVER DRIVE	7071.17		INLET SIDE TBC
57	5+59.90	16.17' (LT)	CRIMSON CLOVER DRIVE	7074.55		PC

CRIMSON CLOVER DRIVE PROFILE 3
STA 0+00.00 TO 7+50.00

NOTES

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40 20 0 40 80

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COLORADO REGISTERED PROFESSIONAL ENGINEER
MIKE A. BRAMLETT
32314

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CHECKED BY	

CLOVERLEAF FILING NO. 2

ROADWAY PLAN AND PROFILE

SHEET 11 OF 20

JOB NO. 25158.01

LINE TABLE		
LINE	BEARING	DISTANCE
L44	S05°52'43"E	30.99'
L47	N05°52'43"W	19.90'
L49	S05°52'43"E	68.50'
L53	S05°52'42"E	369.01'
L54	N03°35'02"E	5.07'
L55	N05°52'43"W	289.77'
L58	N61°32'49"E	10.36'
L60	S73°25'41"E	10.36'
L63	S15°19'07"E	5.07'
L65	S03°33'54"W	5.07'
L99	S15°20'27"E	5.07'

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C23	70°00'37"	45.00'	54.99'
C24	65°44'55"	46.17'	52.98'
C64	135°38'05"	46.17'	109.30'
C65	23°09'44"	47.00'	19.00'

ROADWAY POINT TABLULATION						
POINT NUMBER	STATION	OFFSET	ALIGNMENT	ELEVATION	NOTES	DESCRIPTION
58D	13+79.33	16.17' (LT)	ALSIKE CLOVER COURT	7064.91		C&G TRANSITION
58B	13+87.33	17.50' (LT)	ALSIKE CLOVER COURT	7065.25		INLET SIDE TBC
58C	13+98.66	17.50' (LT)	ALSIKE CLOVER COURT	7065.07		INLET SIDE TBC
58	14+15.32	17.00' (LT)	ALSIKE CLOVER COURT	7064.26		PCR
59E	15+15.22	16.17' (LT)	ALSIKE CLOVER COURT	7064.71		C&G TRANSITION
59D	15+10.22	17.00' (LT)	ALSIKE CLOVER COURT	7064.53		C&G TRANSITION
59A	14+90.32	17.00' (LT)	ALSIKE CLOVER COURT	7064.19		PCR
59B	14+92.55	17.50' (LT)	ALSIKE CLOVER COURT	7064.73		INLET SIDE TBC
59C	14+98.89	17.50' (LT)	ALSIKE CLOVER COURT	7064.83		INLET SIDE TBC
59	14+83.82	18.06' (LT)	ALSIKE CLOVER COURT	7063.98		RAMP MID PT
60A	14+59.38	17.50' (RT)	ALSIKE CLOVER COURT	7064.62		LP/ INLET MID TBC
60	14+83.82	17.00' (RT)	ALSIKE CLOVER COURT	7064.19		RAMP MID PT
61	18+04.98	16.17' (LT)	ALSIKE CLOVER COURT	7072.04		PT/END N CULDESAC
62	18+90.66	16.17' (RT)	ALSIKE CLOVER COURT	7074.23		PC/BEGIN N CULDESAC
63	18+47.27	45.78' (LT)	ALSIKE CLOVER COURT	7072.97		PRC

ALSIKE CLOVER COURT PROFILE 1
STA 13+00.00 TO 19+50.00

N CULDESAC PROFILE
STA 0+00.00 TO 2+56.45

NOTES

1. ALL PROFILE ELEVATIONS ARE CENTERLINE UNLESS OTHERWISE NOTED.
2. ALL POINT TABULATIONS ARE FLOWLINE UNLESS OTHERWISE NOTED.
3. SEE SHEET 2 FOR LEGEND.
4. SEE SHEETS 6 FOR TYPICAL STREET SECTIONS.
5. SEE SHEETS 16 FOR CURB RETURN PROFILES.
6. SEE SHEETS 17-18 FOR SIGNAGE AND STRIPING.
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8. ALL CURB RAMPS REQUIRE A CURB AND GUTTER TYPE TRANSITION. SEE DETAIL SHEET 19.
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10. ALL CURB RAMPS, SIDEWALKS, & CROSSWALKS PART OF THE PEDESTRIAN ACCESS ROUTE SHALL MEET ALL APPLICABLE REQUIREMENTS OF EL PASO CHAPTER 6 AND THE PROWAG REQUIREMENTS THEREIN AND THE LATEST ADA REGULATIONS

Know what's below.
Call before you dig.

ENGINEER'S STATEMENT

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING

MIKE A. BRAMLETT, P.E.
COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING, LLC

DATE

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR
PT CLOVERLEAF, LLC
1864 WOODMOOR DR., STE. 100
COLORADO SPRINGS, CO 80920
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719-476-0800
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No.	REVISION	BY	DATE

H-SCALE	1" = 40'
V-SCALE	VARIES
DATE	08/18/21
DESIGNED BY	XXX
DRAWN BY	CRB
CHECKED BY	

CLOVERLEAF FILING NO. 2

ROADWAY PLAN AND PROFILE

SHEET 12 OF 20

JOB NO. 25158.01

LINE TABLE		
LINE	BEARING	DISTANCE
L41	S05°52'42"E	413.50'
L67	S10°38'26"E	10.03'
L68	S05°52'43"E	20.00'
L69	S01°06'56"E	10.03'
L70	S05°52'41"E	18.35'
L99	S15°20'27"E	5.07'
L100	S05°52'43"E	349.67'
L101	S01°06'54"E	10.03'
L102	S05°52'43"E	20.00'
L103	S10°38'32"E	10.03'

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C37	55°30'09"	216.17'	209.40'
C66	55°30'09"	183.83'	178.08'

ALSIKE CLOVER COURT PROFILE 2
STA 6+50.00 TO 13+00.00

ROADWAY POINT TABLULATION						
POINT NUMBER	STATION	OFFSET	ALIGNMENT	ELEVATION	NOTES	DESCRIPTION
64A	7+42.52	17.50' (RT)	ALSIKE CLOVER COURT	7073.35		INLET SIDE TBC
64B	7+53.85	17.50' (RT)	ALSIKE CLOVER COURT	7073.20		INLET SIDE TBC
64	7+77.57	16.17' (RT)	ALSIKE CLOVER COURT	7072.44		PC
65	7+77.57	16.17' (LT)	ALSIKE CLOVER COURT	7072.41		PC
66	9+71.31	16.17' (RT)	ALSIKE CLOVER COURT	7070.01		PT
67	9+71.31	16.17' (LT)	ALSIKE CLOVER COURT	7069.99		PT
68	10+10.15	17.00' (RT)	ALSIKE CLOVER COURT	7069.46		RAMP MID PT
69	10+10.15	17.00' (LT)	ALSIKE CLOVER COURT	7069.46		RAMP MID PT

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40 20 0 40 80

HORIZONTAL
ORIGINAL SCALE: 1" = 40'
VERTICAL
ORIGINAL SCALE: 1" = 8'

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ENGINEER'S STATEMENT

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COLORADO REGISTERED MIKE A. BRAMLETT 32314 PROFESSIONAL ENGINEER

MIKE A. BRAMLETT, P.E. DATE
COLORADO P.E. 32314
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CLOVERLEAF FILING NO. 2
ROADWAY PLAN AND PROFILE

SHEET 13 OF 20

JOB NO. 25158.01

ALSIKE CLOVER COURT PROFILE 3
STA 0+00.00 TO 6+50.00

HORIZONTAL
ORIGINAL SCALE: 1" = 40'
VERTICAL
ORIGINAL SCALE: 1" = 8'

S CULDESAC PROFILE
STA 0+00.00 TO 2+97.37

HORIZONTAL
ORIGINAL SCALE: 1" = 40'
VERTICAL
ORIGINAL SCALE: 1" = 4'

LINE TABLE		
LINE	BEARING	DISTANCE
L19	S66°08'41"E	10.03'
L56	N56°37'03"W	10.03'
L61	N61°22'52"W	298.08'
L62	S61°22'52"E	298.08'
L72	S61°22'52"E	316.88'
L73	S66°08'41"E	10.03'
L106	S61°22'52"E	316.88'
L107	S56°37'03"E	10.03'

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C9	47°51'46"	45.00'	37.59'
C38	90°00'00"	20.50'	32.20'
C68	90°00'00"	20.50'	32.20'
C69	90°00'00"	20.50'	32.20'
C71	90°00'00"	20.50'	32.20'
C72	47°51'46"	45.00'	37.59'
C73	275°43'32"	46.17'	222.18'

ROADWAY POINT TABLULATION

POINT NUMBER	STATION	OFFSET	ALIGNMENT	ELEVATION	NOTES	DESCRIPTION
70	0+34.24	30.98' (RT)	ALSIKE CLOVER COURT	7089.57		PRC
71	0+34.24	30.98' (LT)	ALSIKE CLOVER COURT	7089.57		PRC
72A	3+65.68	16.17' (RT)	ALSIKE CLOVER COURT	7077.99		C&G TRANSITION
72B	3+75.68	17.00' (RT)	ALSIKE CLOVER COURT	7077.73		PCR
72	0+67.61	16.17' (RT)	ALSIKE CLOVER COURT	7088.58		PT
73A	3+65.68	16.17' (LT)	ALSIKE CLOVER COURT	7077.38		C&G TRANSITION
73B	3+75.68	17.00' (LT)	ALSIKE CLOVER COURT	7077.15		PCR
73	0+67.61	16.17' (LT)	ALSIKE CLOVER COURT	7088.57		PT
74	3+82.18	18.06' (RT)	ALSIKE CLOVER COURT	7077.66		RAMP MID PT
75	3+82.18	18.06' (LT)	ALSIKE CLOVER COURT	7077.01		RAMP MID PT
76B	4+60.68	16.17' (RT)	ALSIKE CLOVER COURT	7076.39		C&G TRANSITION
76A	4+50.68	17.00' (RT)	ALSIKE CLOVER COURT	7076.69		PCR
76	4+44.18	18.06' (RT)	ALSIKE CLOVER COURT	7076.87		RAMP MID PT
77A	4+50.68	17.00' (LT)	ALSIKE CLOVER COURT	7076.51		PCR
77B	4+60.68	16.17' (LT)	ALSIKE CLOVER COURT	7076.39		C&G TRANSITION
77	4+44.18	18.06' (LT)	ALSIKE CLOVER COURT	7076.53		RAMP MID PT

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COLORADO REGISTERED MIKE A. BRAMLETT PROFESSIONAL ENGINEER 32314

MIKE A. BRAMLETT, P.E. DATE
COLORADO P.E. 32314
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No.	REVISION	BY	DATE

H-SCALE	1"=40'
V-SCALE	VARIES
DATE	08/18/21
DESIGNED BY	XXX
DRAWN BY	CRB
CHECKED BY	

CLOVERLEAF FILING NO. 2

ROADWAY PLAN AND PROFILE

SHEET 14 OF 20

JOB NO. 25158.01

40 20 0 40 80

HORIZONTAL
ORIGINAL SCALE: 1" = 40'
VERTICAL
ORIGINAL SCALE: 1" = 4'

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V-SCALE	1"=4'
DATE	08/18/21
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CHECKED BY	

CLOVERLEAF FILING NO. 2

MILL AND OVERLAY PLAN

SHEET 15 OF 20

JOB NO. 25158.01

CR1 PROFILE
STA 0+00.00 TO 0+52.27

CR2 PROFILE
STA 0+00.00 TO 0+52.27

CR3 PROFILE
STA 0+00.00 TO 0+50.91

CR4 PROFILE
STA 0+00.00 TO 0+49.03

CR5 PROFILE
STA 0+00.00 TO 1+02.27

CR6 PROFILE
STA 0+00.00 TO 0+52.27

CR7 PROFILE
STA 0+00.00 TO 0+67.21

CR8 PROFILE
STA 0+00.00 TO 0+78.30

30 15 0 30 60

HORIZONTAL
ORIGINAL SCALE: 1" = 30'
VERTICAL
ORIGINAL SCALE: 1" = 3'

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V-SCALE	1"=8'
DATE	08/18/21
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CHECKED BY	

CLOVERLEAF FILING NO. 2

CURB RETURN PROFILES

SHEET 7 OF 20

JOB NO. 25158.01

SIGN TABULATION					
POINT NUMBER	STATION	OFFSET	ALIGNMENT	NOTES	DESCRIPTION
3	4+57.82	16.08' (RT)	WALTERS POINT 2		30X30 R1-1 54X12 D3-1 (X4)
4A	0+57.02	25.90' (RT)	WHITE CLOVER TERRACE		24X30 R2-1
4	0+29.27	23.73' (LT)	WHITE CLOVER TERRACE		30X30 R1-1 54X12 D3-1 (X4)
5	9+05.59	20.03' (RT)	WHITE CLOVER TERRACE		30X30 R1-1 54X12 D3-1 (X4)

40 20 0 40 80
ORIGINAL SCALE: 1" = 40'

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No.	REVISION	BY	DATE

H-SCALE	1"=40'
V-SCALE	N/A
DATE	08/18/21
DESIGNED BY	XXX
DRAWN BY	CRB
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CLOVERLEAF FILING NO. 2

SIGNAGE AND STRIPING PLAN

SHEET 17 OF 20

JOB NO. 25158.01

SIGN TABULATION					
POINT NUMBER	STATION	OFFSET	ALIGNMENT	NOTES	DESCRIPTION
6	21+89.03	19.86' (RT)	CRIMSON CLOVER DRIVE		30X30 R1-1 54X12 D3-1 (X4)
7	4+49.96	20.13' (LT)	ALSIKE CLOVER COURT		30X30 R1-1 54X12 D3-1 (X4)
8	3+76.35	19.98' (RT)	ALSIKE CLOVER COURT		30X30 R1-1 54X12 D3-1 (X4)
9	0+57.08	19.93' (LT)	CRIMSON CLOVER DRIVE		30X30 R1-1 54X12 D3-1 (X4)
10	0+90.05	24.50' (RT)	CRIMSON CLOVER DRIVE		24X30 R2-1
11	3+76.35	20.00' (LT)	ALSIKE CLOVER COURT		30 X 30 W14-1
12	14+94.32	25.00' (RT)	ALSIKE CLOVER COURT		30 X 30 W14-1

40 20 0 40 80
ORIGINAL SCALE: 1" = 40'

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V-SCALE	N/A
DATE	08/18/21
DESIGNED BY	XXX
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CLOVERLEAF FILING NO. 2

SIGNAGE AND STRIPING PLAN

SHEET 18 OF 20

JOB NO. 25158.01

Roadway Design Parameters
Design Speed: 25 mph
Posted Speed: 25 mph
Maximum ADT: 3,000
Design Vehicle: WB-50

SCALE: NOT TO SCALE

12/31/05 DATE APPROVED: John A. McCarty DEPARTMENT OF TRANSPORTATION	Urban Local Roadway Standard Cross Section REVISION DATE: 12/22/05 FILE NAME: SD_2-2	EL PASO COUNTY DEPARTMENT OF TRANSPORTATION

LEGEND FOR RADII	
A	1/8" TO 1/4"
B	1-1/2"
C	1-1/2" TO 2"

① – GUTTER CROSS SLOPES SHALL BE 1/2 IN./FT. WHEN DRAINING AWAY FROM CURB AND 1 IN./FT. WHEN DRAINING TOWARD CURB.

SCALE: NOT TO SCALE

8/11/11 DATE APPROVED: André P. Brackin DEPARTMENT OF TRANSPORTATION	Typical Curb and Gutter Details Standard Drawing REVISION DATE: 12/8/15 FILE NAME: SD_2-20	EL PASO COUNTY DEPARTMENT OF TRANSPORTATION

NOTES

1. PROVIDE CENTERLINE CONSTRUCTION OR TOOL JOINT WHEN DRIVEWAY WIDTH (EDGE TO EDGE) IS 14' OR GREATER.

2. ALL TOOL JOINTS SHALL BE A MINIMUM OF 1-½" DEEP.

3. WHEN REPLACING EXISTING CURB AND GUTTER WITH NEW DRIVEWAY, ENTIRE CURB AND GUTTER SECTION SHALL BE REMOVED AND REPLACED WITH CURB AND GUTTER (VARIABLE-CURB-HEIGHT) AS SHOWN. DO NOT BREAK CURB FROM GUTTER SECTION.

4. FLARED PORTION OF DRIVEWAY SHALL BE POURED MONOLITHIC WITH MAIN RECTANGULAR PORTION OF DRIVEWAY.

5. WHERE THERE IS MORE THAN ONE DRIVEWAY ON A LOT, THE SPACING OF THE DRIVEWAYS SHALL MEET REQUIREMENTS IN ECM.

6. WHERE AN EXISTING SIDEWALK IS IN PLACE, AND ITS THICKNESS IS LESS THAN 6" (RESIDENTIAL) OR 8" (COMMERCIAL AND INDUSTRIAL) THE SIDEWALK THROUGH THE DRIVEWAY SHALL BE REMOVED AND REPLACED WITH PORTLAND CEMENT CONCRETE AT THE REQUIRED THICKNESS.

7. WHEN A DRIVEWAY IS TO BE TAKEN OUT OF SERVICE, THE ENTIRE LENGTH OF CURB AND GUTTER SHALL BE REMOVED AND REPLACED WITH NEW CURB AND GUTTER MATCHING THE ABUTTING SECTIONS.

8. ALL PROVISIONS IN THE LAND DEVELOPMENT CODE SHALL BE MET, WITH REGARD TO MINIMUM SETBACK FROM INTERSECTION AND SIDE PROPERTY LINES, MINIMUM SPACING, MAXIMUM WIDTH, ETC.

TOOLS JOINT SPACING		
DRIVEWAY WIDTH	A	B
12'	6'	3'
14'	7'	3'-6"
16'	8'	4'
18'	9'	4'-6"
20'	10'	5'
22'	11'	5'-6"
24'	8'	4'
26'	8'-8"	4'-4"
28'	9'-4"	4'-8"
30'	10'	5'

SCALE: NOT TO SCALE

8/11/11 DATE APPROVED: André P. Brackin DEPARTMENT OF TRANSPORTATION	Driveway Detail With Attached Sidewalk Standard Drawing REVISION DATE: 11/10/04 FILE NAME: SD_2-24	EL PASO COUNTY DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

1. THE ENGINEER WILL ESTABLISH GRADES AND LOCATIONS FOR ALL SIGN POSTS IN ACCORDANCE WITH DETAILS SHOWN ON THE PLANS.
2. SPECIAL CARE SHALL BE TAKEN IN SIGN LOCATION TO ENSURE AN UNOBSTRUCTED VIEW OF EACH SIGN.
3. MINIMUM POST EMBEDMENT SHALL BE 3 FT.FOR U-2 POSTS AND, 4-IN X 4-IN TIMBER POSTS, AND 5 FT FOR 6-IN X 6-IN TIMBER POSTS. SEE APPLICABLE STANDARDS FOR FOOTING DEPTH.
4. IF A SHOULDER IS WIDER THAN 4 FT., THE MINIMUM LATERAL OFFSET DISTANCE SHOULD BE 6 FT. FROM THE EDGE OF SHOULDER, EXCEPT FOR MILE MARKER SIGNS. SEE FIGURE 2A-205 OF THE 2009 MUTCD.
5. NORMAL LATERAL PLACEMENT IS MEASURED FROM THE EDGE OF THE TRAVEL LANE.
6. IN URBAN AREAS, A LATERAL CLEARANCE OF 1 FT. FROM THE CURB FACE IS PERMISSIBLE WHERE SIDEWALK WIDTH IS LIMITED OR WHERE EXISTING POLES ARE CLOSE TO THE CURB.
7. TYPICAL POST MOUNTING HEIGHTS FROM GROUND TO BOTTOM OF SIGN PANEL ARE 7 OR 8 FT.OTHER HEIGHTS MAY BE REQUIRED WHEN SIGNS ARE MOUNTED ON STEEPER FILL OR CUT SLOPES.
8. *EDUCATIONAL PLAQUES* FOR STOPPER SIGNS WILL NOT BE CONSIDERED WHEN DETERMINING VERTICAL PLACEMENT FOR INFORMATION OF EDUCATIONAL PLAQUES, SEE PAGE 3 OF THE 2012 CDOT GUIDE SIGNING POLICIES & PROCEDURES, AND SECTION 2A.04 OF THE 2009 MUTCD.
9. WHEN LATERAL PLACEMENT IS 30 FT OR MORE FOR SIGNS WITHOUT A SUPPLEMENTAL PLAQUE, VERTICAL PLACEMENT D MAY BE REDUCED TO 5 FT. WHEN LATERAL PLACEMENT IS 30 FT OR MORE FOR SIGNS WITH A SUPPLEMENTAL PANEL, VERTICAL PLACEMENT F DOES NOT DOES NOT APPLY - USE ONLY VERTICAL PLACEMENT H.
10. NORMAL ANGULAR ALIGNMENT IS 0.DEG SIGNS CLOSER THAN 50 FT.SHOULD BE TURNED SLIGHTLY AWAY TO MINIMIZE SPECULAR REFLECTION. SIGNS PLACED 50 FT.OR MORE SHOULD GENERALLY BE TURNED TOWARD THE ROAD.
11. THE EXIT PANEL IS MOUNTED ON THE RIGHT HAND SIDE FOR RIGHT HAND EXITS AND THE LEFT SIDE FOR LEFT HAND EXITS.
12. POST SHALL BE INSTALLED PLUMB.VERTICAL DEVIATION SHALL NOT EXCEED ½-IN IN 10 FT.
13. ON ALL TWO-LANE,UNDIVIDED HIGHWAYS,THE MILE MARKER AND POST SHALL BE INSTALLED ON THE RIGHT SIDE,FOR ON THE ASCENDING DIRECTION WITH THE MILE MARKER PANELS DISPLAYED ON THE FRONT AND BACK SIDE OF THE POST.
14. ON ALL UNDIVIDED MULTI-LANE AND DIVIDED HIGHWAYS AND INTERSECTION THE MILE MARKER AND POST SHALL BE INSTALLED ON THE OUTSIDE SHOULDER OR SIDEWALK IF APPLICABLE,IN BOTH DIRECTIONS OF TRAVEL.
15. VERTICAL SPACING BETWEEN SIGN PANELS SHALL BE 1 TO 0½ IN.,TYPICAL.

PLACEMENT TABLES

LATERAL PLACEMENT		
KEY	ALL CLASSES OF STREETS AND HIGHWAYS	
	MINIMUM	NORMAL
A	2'-0"	13'-0"PLUS CURB
B	2'-0"	30'-0" OR MORE INCLUDES CURB
C	2'-0"	6'-0"PLUS EDGE OF 6'+ WIDE SHOULDER, IF NONE, 12'-0" FROM EDGE OF TRAVEL LANE

VERTICAL PLACEMENT						
KEY	FREEWAYS AND EXPRESSWAYS		CONVENTIONAL STREETS AND HIGHWAYS			
			URBAN		RURAL	
	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
D	7'-0" OR NOTE NO. 9		12'-0"	7'-0"	8'-0"	5'-0"
E	7'-0"		8'-0"	7'-0"	8'-0"	5'-0"
F	8'-0" OR NOTE NO. 9		12'-0"	8'-0"	8'-0"	5'-0"
G	8'-0"		7'-0"	8'-0"	7'-0"	4'-0"
H	5'-0"		10'-0"	8'-0"	7'-0"	4'-0"

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Sheet Revisions	
Date	Comments

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Traffic & Safety Engineering MKB

GROUND SIGN PLACEMENT

Issued By: Traffic & Safety Engineering Branch July 31, 2019

STANDARD PLAN NO.
S-614-1
Standard Sheet No. 1 of 2
Project Sheet Number:

Know what's **below.**
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ENGINEER'S STATEMENT

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING

COLORADO REGISTERED PROFESSIONAL ENGINEER MIKE A. BRAMLETT 32314

MIKE A. BRAMLETT, P.E. DATE
COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING, LLC

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR
PT CLOVERLEAF, LLC
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No.	REVISION	BY	DATE

H-SCALE	N/A
V-SCALE	N/A
DATE	08/18/21
DESIGNED BY	N/A
DRAWN BY	N/A
CHECKED BY	

CLOVERLEAF FILING NO. 2

COUNTY DETAILS

SHEET 19 OF 20

JOB NO. 25158.01

PLAN VIEW

SECTION A–A

NOTES

1. W – WIDTH SHALL BE 6' FOR LOCAL, 8' FOR COLLECTORS, AND 10' FOR ARTERIAL ROADS.

2. T – SQUARED–OFF RETURN TO BE POURED MONOLITHICALLY, 8" PCC FOR LOCAL ROADS, 9" FOR COLLECTORS WITH 6x6 – 4.4 W.W.F. OR #4 REINFORCING BAR @ 18" EACH WAY.

3. = 3" MINIMUM ASPHALT DEPTH (2 LIFTS).

4. DESIGN TO SPECIFY ELEVATIONS AT PI AND PCR.

SCALE: NOT TO SCALE

8/11/11 DATE APPROVED: André P. Brackin DEPARTMENT OF TRANSPORTATION	Typical Cross Pan Layout Detail Standard Drawing REVISION DATE: 12/8/15 FILE NAME: SD_2–26	EL PASO COUNTY DEPARTMENT OF TRANSPORTATION

PEDESTRIAN RAMP NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT ENGINEERING CRITERIA MANUAL AND ADA REQUIREMENTS.
2. CONTRACTOR TO NOTIFY ENGINEERING DIVISION INSPECTION STAFF 48 HOURS PRIOR TO CONCRETE PLACEMENT.
3. PEDESTRIAN RAMP CONSTRUCTION SHALL BE A MINIMUM 4,500 PSI CONCRETE, MINIMUM 4" THICK, NON–COLORED, NON–SCORED, COARSE BROOM FINISH.
4. RAMP LOCATION AND LENGTH MAY REQUIRE MODIFICATION TO MAINTAIN THE 12:1 MAXIMUM RUNNING RAMP SLOPE AND 20:1 DETECTABLE WARNING AREA DUE TO STREET INTERSECTION GRADES AND/OR ALIGNMENTS.
5. DETECTABLE WARNING AREA SHALL START A MINIMUM OF 6" BUT NOT MORE THAN 8" FROM THE FLOWLINE OF THE CURB AT ANY POINT.
6. DETECTABLE WARNING AREA SHALL BE PREFABRICATED, REDDISH INTEGRALLY COLORED, TRUNCATED–DOME, PAVERS. THERMOPLASTIC TRUNCATED DOMES WILL NOT BE ACCEPTED.
7. THE DETECTABLE WARNING AREA SHALL BE 24" IN LENGTH AND THE FULL WIDTH OF THE RAMP.
8. RAMP WIDTH REQUIRED IS SAME AS APPROACHING SIDEWALK; 4' MINIMUM.
9. ALL RAMPS WILL BE PERPENDICULAR TO TRAFFIC WITH THE EXCEPTION OF MID–BLOCK OR TERMINAL RAMPS WHICH MAY BE PARALLEL SUBJECT TO APPROVAL.
10. AVOID PLACING DRAINAGE STRUCTURES, TRAFFIC SIGNAL/SIGNAGE, UTILITIES/JUNCTION BOXES, OR OTHER OBSTRUCTIONS WITHIN PROPOSED RAMP AREAS.

GENERAL NOTES

1. WHERE THE 1'–6" FLARED SIDE(S) OF A PERPENDICULAR CURB RAMP IS (ARE) CONTIGUOUS WITH A PEDESTRIAN OR HARD SURFACE AREA, THE MAXIMUM FLARE SLOPE SHALL NOT EXCEED 10:1.
2. PEDESTRIAN WALKWAY AND/OR LOCATION OF EXISTING OR FUTURE PEDESTRIAN RAMPS ON OPPOSITE CORNERS SHALL BE REVIEWED BEFORE CONSTRUCTING NEW RAMPS.
3. AT MARKED PEDESTRIAN CROSSINGS, THE BOTTOM OF THE RAMPS, EXCLUSIVE OF THE FLARE SIDES, SHALL BE TOTALLY CONTAINED WITHIN THE MARKINGS.

7/9/09 DATE APPROVED: André P. Brackin DEPARTMENT OF TRANSPORTATION	Pedestrian Intersection Ramp Standard Drawing REVISION DATE: 12/8/15 FILE NAME: SD_2–41	EL PASO COUNTY DEPARTMENT OF TRANSPORTATION

1/1/08 DATE APPROVED: John A. McCarty DEPARTMENT OF TRANSPORTATION	Urban Cul–De–Sac Details Standard Drawing REVISION DATE: 12/8/15 FILE NAME: SD_2–75	EL PASO COUNTY DEPARTMENT OF TRANSPORTATION

SCALE: NOT TO SCALE

9/16/10 DATE APPROVED: André P. Brackin DEPARTMENT OF TRANSPORTATION	Pedestrian Intersection Ramp Detail Standard Drawing REVISION DATE: 11/10/04 FILE NAME: SD_2–40	EL PASO COUNTY DEPARTMENT OF TRANSPORTATION

RAMP INTERSECTION CURB & GUTTER TRANSITION DETAIL

SCALE: 1"=10'

Know what's **below.**
Call before you dig.

ENGINEER'S STATEMENT

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING

MIKE A. BRAMLETT, P.E.
COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING, LLC

DATE

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR
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No.	REVISION	BY	DATE

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CLOVERLEAF FILING NO. 2

COUNTY DETAILS

SHEET 20 OF 20

JOB NO. 25158.01

CLOVERLEAF FILING NO. 2

EL PASO COUNTY, COLORADO

STORM SEWER AND POND PLANS

STANDARD NOTES FOR EL PASO COUNTY CONSTRUCTION PLANS

1. ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).

3. CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOIL AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING:
   - 3.1. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
   - 3.2. CITY OF COLORADO SPRINGS/ EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2
   - 3.3. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS AND BRIDGE CONSTRUCTION
   - 3.4. CDOT M&S STANDARDS

4. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSIONS OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE EINGEERI9NG CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER-THE-FACT WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.

5. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ONSITE AND OFFSITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.

6. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.

7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS-ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.

8. CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.

9. CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.

10. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.

11. SIGHT VISIBILITY TRIANGLES ARE IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED IN SIGHT TRIANGLES.

12. SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS AND MUTCD CRITERIA.

13. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.

14. THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWENER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.

STORM SEWER GENERAL NOTES

1. ALL STATIONING IS ALONG STORM SEWER CENTERLINE UNLESS OTHERWISE INDICATED. ALL ELEVATIONS ARE INVERT UNLESS OTHERWISE INDICATED.
2. ALL STORM SEWER BENDS AND WYES SHOWN ON THE PLAN SHALL BE PREFABRICATED.
3. HORIZONTAL AND VERTICAL BENDS ARE INDICATED ON THE PLANS.
4. JOINTS SHALL BE IN ACCORDANCE WITH ASTM C443 "STANDARD SPECIFICATIONS FOR JOINTS FOR CIRCULAR CONCRETE SEWER AND CULVERT PIPE USING RUBBER GASKET." IN NO CASE SHALL THE MAXIMUM JOINT OPENING FOR STRAIGHT ALIGNMENT EXCEED 1 INCH OR ONE AND ONE-HALF INCH ON CURVED ALIGNMENT.
5. INLET DIMENSIONS SHOWN ON PLANS REFER TO DISTANCES FROM INSIDE FACES OF BOX BETWEEN THE WIDTHS AND LENGTHS.
6. MANHOLE WIDTHS AND LENGTHS SHOWN ON PLAN REFER TO THE EXTERIOR WALL DIMENSIONS.
7. ALL STORM SEWER SHALL BE A MINIMUM OF CLASS III REINFORCED CONCRETE PIPE. SPECIFIC SEGMENTS OF STORM SEWER SHALL BE REQUIRED TO BE CONSTRUCTED OF A MINIMUM OF 5000 PSI CONCRETE DUE TO EXCESSIVE VELOCITIES. REFER TO ADDITIONAL NOTES WITHIN CONSTRUCTION PLANS.
8. SINCE ALL PIPE ENTRIES INTO THE BASE ARE VARIABLE, THE DIMENSIONS SHOWN ARE TYPICAL. ACTUAL DIMENSIONS AND QUANTITIES FOR CONCRETE AND REINFORCEMENT SHALL BE AS REQUIRED IN THE WORK.
9. THE MH RING (FRAME) SHALL BE SET IN A BED OF GROUT. THE FRAME SHALL BE SURROUNDED WITH A GROUT IN UNPAVED AREA, OR A CONCRETE COLLAR IN PAVED AREA.
10. PRECAST MANHOLES AND REINFORCEMENT SHALL CONFORM TO ASTM C 478 (AASHTO M 199).
11. CAST IN PLACE MANHOLES SHALL BE CLASS B CONCRETE.
12. STEPS SHALL BE REQUIRED WHEN THE MANHOLE DEPTH EXCEEDS 3'-6" AND SHALL BE IN ACCORDANCE WITH AASHTO M 199.
13. ALL REINFORCING STEEL SHALL HAVE A MINIMUM YIELD STRENGTH OF 60,000 PSI. VERTICAL STEEL SHALL BE PLACED AT ℄ OF WALL. ALL BARS SHALL HAVE A 2" MINIMUM CLEARANCE.
14. FLOW CHANNELS AND INVERTS SHALL BE FORMED BY SHAPING WITH CLASS B CONCRETE OR APPROVED GROUT.
15. STUB-OUTS SHALL EXTEND 4 FT MINIMUM BEYOND OUTSIDE WALL SURFACE OF MANHOLE AND BE SATISFACTORILY PLUGGED.
16. CHECK WITH THE LOCAL GOVERNMENT AUTHORITY FOR ANY ADDITIONAL STORM SEWER SPECIFICATIONS, DETAILS, OR REGULATIONS.
17. THE SLOPE OF THE MANHOLE COVER SHALL MATCH THE ROADWAY PROFILE AND CROSS SLOPE.
18. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF ALL PREFABRICATED STRUCTURES TO THE ENGINEER FOR REVIEW PRIOR TO INSTALLATION.

811 Know what's below. Call before you dig.

VICINITY MAP
SCALE: 1"=2000'

SHEET INDEX

1	–	TITLE
2	–	LEGEND
3-8	–	STORM SEWER PLANS
9-25	–	POND PLANS AND DETAILS
26	–	DETAIL SHEET

CONTACTS:

OWNER/DEVELOPER	PT CLOVERLEAF, LLC 1864 WOODMOOR DRIVE, SUITE 100 COLORADO SPRINGS, CO 80920 P~719-476-0800
ENGINEER/SURVEYOR	JR ENGINEERING, LLC ATTN: MIKE A. BRAMLETT 5475 TECH CENTER DRIVE, SUITE 235 COLORADO SPRINGS, CO 80919 P~303-267-6240
FIRE PROTECTION DISTRICT	TRI-LAKES MONUMENT FPD 16055 OLD FOREST POINT, SUITE 103 MONUMENT, CO 80132 P~719-484-0911
DISTRICT	WOODMOOR WATER & SANITATION DISTRICT NO. 1 1845 WOODMOOR DRIVE MONUMENT, CO 80132 P~719-488-2525 EXT. 0
EL PASO COUNTY	PLANNING AND COMMUNITY DEVELOPMENT 2880 INTERNATIONAL CIRCLE, SUIT 110 COLORADO SPRINGS, CO 80910 P~719-520-6819 DEPARTMENT OF PUBLIC WORKS 3275 AKERS DR COLORADO SPRINGS, CO 80922 P~719-529-6460

BENCHMARK

NGS MONUMENT T 294 BEING MONUMENTED BY A 3-1/4" BRASS DISC SET IN A 4'X4' BOULDER, LOCATED 1.8 MILES EAST ALONG HIGBY ROAD FROM ITS INTERSECTION WITH JACKSON CREEK PARKWAY, 40 FEET SOUTH OF THE CENTERLINE OF THE ROAD, 6 FEET SOUTH OF A FENCE, AND 6.2 FEET SOUTH OF A WITNESS POST. SAID MONUMENT HAVING A PUBLISHED ELEVATION OF 7247.10 FEET, NAVD88.

BASIS OF BEARING

THE BASIS OF BEARINGS IS THE WESTERLY LINE OF TRACT, B, WOODMOOR PLACER, BEING MONUMENTED BY A 1-1/4" YELLOW PLASTIC CAP ILLEGIBLE AT BOTH ENDS. SAID LINE BEARING N26°20'33"E AS REFERENCED TO COLORADO STATE PLANE CENTRAL ZONE.

OWNER/DEVELOPER STATEMENT

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

JOE DESJARDIN — DATE

PT CLOVERLEAF, LLC
1864 WOODMOOR DRIVE
COLORADO SPRINGS, CO 80920

EL PASO COUNTY STATEMENT

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.

JENNIFER IRVINE, P.E. — DATE

COUNTY ENGINEER/ECM ADMINISTRATOR

ENGINEER'S STATEMENT

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECT 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 PLAN 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.

COLORADO REGISTERED PROFESSIONAL ENGINEER MIKE A. BRAMLETT 32314

MIKE A. BRAMLETT, P.E. — DATE
COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING, LLC

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

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No.	REVISION	BY	DATE

H-SCALE	1"=2000'
V-SCALE	N/A
DATE	04/27/2021
DESIGNED BY	SAV
DRAWN BY	SAV
CHECKED BY	

CLOVERLEAF FILING 2

COVER SHEET

SHEET 1 OF 28

JOB NO. 25158.01

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LAYER LINETYPE LEGEND

	EXISTING	PROPOSED
PHASE LINE		
MATCH LINE		
SECTION LINE		
BOUNDARY LINE		
PROPERTY LINE		
EASEMENT LINE		
RIGHT OF WAY		
R.O.W. A LINE	A	A
CENTERLINE		
CITY LIMITS		
WIRE FENCE	X	X
CHAIN LINK FENCE	O	●
WOOD FENCE	◇	◆
MASONRY FENCE	□	■
GUARDRAIL		
CONC. BARRIER		
CABLE TV	TV	TV
ELECTRIC	E	E
FIBER OPTIC	FO	FO
GAS MAIN	G	G
IRRIGATION MAIN	IRR	IRR
OIL/PETRO. MAIN	O	O
OVERHEAD UTILITY	OHU	OHU
SANITARY SEWER	S	
STORM DRAIN		
TELEPHONE	T	T
WATER MAIN	W	W
RAW WATER LINE	RWL	RWL
SWALE/WATERWAY FLOWLINE		
DIVERSION DITCH		
DIVERSION CHANNEL		
MAJOR DRAINAGE BASIN		
MINOR DRAINAGE BASIN		
TOP OF SLOPE		
TOE OF SLOPE		
EDGE OF WATER		
INDEX CONTOUR	6100	6100
INTERMEDIATE CONTOUR		
DEPRESSION CONT. (INDEX)	6100	6100
DEPRESSION CONT. (INTER)		
TOP OF CUTS		
TOE OF FILLS		
CUT AND FILL LINE		C/F C/F
SILT FENCE	SF	SF
100 YEAR FLOODPLAIN	100YR	100YR
500 YEAR FLOODPLAIN	500YR	500YR
FLOODWAY	FLDWY	FLDWY
BASE FLOOD ELEVATION		
EDGE OF WETLANDS		
STONE WALL		

UTILITIES LEGEND

	EXISTING	PROPOSED
STORM SEWER		
MANHOLE		
STORM INLET		
AREA INLET – SQUARE		
AREA INLET – ROUND		
FLARED END SECTION		
RIPRAP		
SANITARY SEWER		
LINE MARKER	Mkr San	
SERVICE MARKER		
CLEAN–OUT		
MANHOLE W/ DIRECTIONAL FLOW ARROW		
WATER LINE		
LINE MARKER	Mkr W	
SERVICE MARKER		
FIRE HYDRANT		
FIRE CONNECTION		
MANHOLE		
BEND		
BLOW–OFF VALVE		
WELL	WELL	WELL
METER		
VALVE		
REDUCER		
THRUST BLOCK		
CROSS		
PLUG W/ THRUST BLOCK		
TEE		
REVERSE ANCHOR		
ANODE		
AIR & VACUUM VALVE ASSEMBLY		
TRANSMISSION BLOW–OFF ASSEMBLY		
GAS LINE		
MARKER	Mkr G	
SERVICE MARKER		
METER		
VALVE		
PLUG		
TEE		
DRY UTILITIES		
CABLE TV MARKER	Mkr TV	
CABLE TELEVISION PEDESTAL		
ELECTRIC MARKER	Mkr E	
ELECTRIC SERVICE MARKER		
ELECTRICAL PEDESTAL		
ELECTRICAL METER		
ELECTRICAL MANHOLE		
FIBER–OPTIC MARKER	Mkr FO	
IRRIGATION PEDESTAL		
TELEPHONE MARKER	Mkr T	
TELEPHONE PEDESTAL		
TELEPHONE MANHOLE		
UTILITY POLE		
GUY ANCHOR		
GUY POLE		
MISC. UTILITIES		
VENT PIPE	VP	VP
TEST HOLE DESIGNATOR	TH# FIRM/AGENCY	

LANDSCAPE LEGEND

	EXISTING	PROPOSED
TREE – CONIFEROUS		
TREE – DECIDUOUS		
SHRUB/BUSH		
SHRUBS AND BUSHES		
IRRIGATION BOX		
IRRIGATION SPRINKLER		
IRRIGATION VALVE		
BOLLARD		
FLAGPOLE	FP	

811 Know what's below. Call before you dig.

CROSS SECTION – WALTERS POINT
STA: 0+00–5+69.03±

B–B

N.T.S.

NOTES

1. SEE SHEET 1 FOR BENCHMARK. SEE SHEET 2 FOR LEGEND.
2. ALL STATIONING IS PIPE CENTERLINE UNLESS OTHERWISE NOTED.
3. ALL RCP STORM SEWER SHALL BE CLASS III UNLESS OTHERWISE NOTED.
4. PIPE LENGTHS ARE FROM INSIDE INLET WALL TO INSIDE INLET WALL, FROM CENTER OF MANHOLE TO INSIDE INLET WALL, OR FROM CENTER OF MANHOLE TO CENTER OF MANHOLE. PIPE LENGTHS INCLUDE FES OR HEADWALL.
5. ALL MANHOLE COVERS SHALL BE ORIENTED TO AVOID CURB, GUTTER, SIDEWALK AND CROSSPANS UNLESS OTHERWISE NOTED.
4. ALL MANHOLES SHALL HAVE AN ECCENTRIC CONE UNLESS OTHERWISE NOTED.
5. PROVIDE A MINIMUM OF 18" FROM THE RIM TO THE TOP OF SLAB FOR ALL FLAT TOP MANHOLES.
6. ALL ON–GRADE INLETS ARE TO MATCH TBC ELEVATIONS AT EACH END, FOLLOWING STREET GRADES.
7. INLET STATIONING IS TO CENTER OF INLET.
8. PIPES SHALL HAVE JOINT RESTRAINTS ON LAST 3 JOINTS AT PIPE OUTFALL.
9. ALL CURVED PIPES SHALL BE BUILT IN ACCORDANCE WITH THE AMERICAN CONCRETE PIPE ASSOCIATION (ACPA) DESIGN DATA 21. PIPE MANUFACTURE TO BE USED MUST BE ABLE TO MEET LENGTH AND JOINT OPENING CRITERIA PER ACPA.
10. ALL ON–GRADE INLETS ARE TO MATCH TBC ELEVATIONS AT EACH END, FOLLOWING STREET GRADES.
11. PIPE BEDDING SHALL CONFORM TO EL PASO COUNTY CONSTRUCTION STANDARDS AND SPECIFICATIONS. BEDDING FOR RCP PIPE SHALL BE AG7122 NO. 57/67 CRUSHED ROCK. SQUEEGEE OR MIXTURES CONTAINING SQUEEGEE SHALL NOT BE USED. BEDDING SHALL BE SIX TO EIGHT INCHES DEEP UNDER THE PIPE AND BACKFILLED TO THE SPRING LINE.
12. INLET STATIONING IS TO CENTER OF INLET.
13. PIPES SHALL HAVE JOINT RESTRAINTS ON LAST 3 JOINTS AT PIPE OUTFALL.
14. INLET STATIONING IS TO CENTER IF INLET.
15. PIPES SHALL HAVE JOINT RESTRAINTS ON LAST 3 JOINTS AT PIPE OUTFALL.
16. ALL MANHOLES ARE EL PASO COUNTY TYPE II UNLESS OTHERWISE SPECIFIED.
17. ALL STORM SEWER PIPES, INLETS, MANHOLES, AND UNDERGROUND FACILITY ARE PUBLIC. ALL OTHER UTILITIES AND EASEMENTS ARE PRIVATE, UNLESS OTHERWISE NOTED.
18. WHERE PIPES ENTER STRUCTURES ON A SKEW, CONTRACTOR IS REQUIRED TO EXTEND PIPE TO ENSURE THAT BOTH EDGES OF THE PIPE EXTEND INTO THE STRUCTURE. CONTRACTOR WILL THEN BE REQUIRED TO CUT PIPE FLUSH WITH THE INSIDE FACE OF THE STRUCTURE AND GROUT IN PLACE. UNLESS OTHERWISE NOTED.
19. ALL MATERIALS AND INSTALLATION PROCEDURES SHALL BE IN COMPLIANCE WITH MANUFACTURERS SPECIFICATIONS AND EL PASO COUNTY STANDARDS AND SPECIFICATION.
20. SEE DETAIL SHEETS FOR APPLICABLE DETAILS.
21. ALL RCP PIPES SHALL BE TYPE III CLASSIFACTION **ADD NOTE ABOUT EXTENDED LIFE INSTALL WHERE APPLICABLE?

ENGINEER'S STATEMENT

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECT 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 PLAN 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.

COLORADO REGISTERED PROFESSIONAL ENGINEER MIKE A. BRAMLETT 32314

MIKE A. BRAMLETT, P.E. DATE
COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING, LLC

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR
PT CLOVERLEAF, LLC
1864 WOODMOOR DRIVE
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(719) 476–0800
JDESJARDIN@PROTERRACO.COM

J·R ENGINEERING
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Centennial 303–740–9393 • Colorado Springs 719–593–2593
Fort Collins 970–491–9888 • www.jrengineering.com

No.	REVISION	BY	DATE

H–SCALE	N/A
V–SCALE	N/A
DATE	04/27/2021
DESIGNED BY	SAV
DRAWN BY	SAV
CHECKED BY	

CLOVERLEAF FILING 2

LEGEND

SHEET 2 OF 28

JOB NO. 25158.01

X:\2510000.all\2515801\Drawings\Sheet Dwgs\Cdx\2515801CV01.dwg LG01, 8/20/2021 11:31:37 AM, CS

DP10 PROFILE
STA 1+00.00 TO 1+30.92

DP09 PROFILE
STA 1+00.00 TO 5+69.02

DP08 PROFILE
STA 1+00.00 TO 4+05.83

DP15 PROFILE
STA 1+00.00 TO 1+16.59

NOTES

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18. ALL INLETS REQUIRE A CURB TYPE AND FL TRANSITION (LOCAL DEPRESSION) DETAILED PER CDOT (M-604-12) TYPE R INLET DETAIL. SEE JR ROADWAY PLAN SHEETS AND DETAIL SHEET.
19. ALL RCP PIPES SHALL BE TYPE III CLASSIFICATION.
20. PIPES WITH PRESSURE HEAD SHALL USE WATER TIGHT JOINTS WITH A 100-YEAR SERVICE LIFE.

50 25 0 50 100

HORIZONTAL ORIGINAL SCALE: 1" = 50'
VERTICAL ORIGINAL SCALE: 1" = 5'

Know what's below. Call before you dig.

ENGINEER'S STATEMENT

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING

MIKE A. BRAMLETT, P.E.
COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING, LLC

DATE

COLORADO REGISTERED PROFESSIONAL ENGINEER MIKE A. BRAMLETT 32314

UNTIL SUCH TIME AS THESE PLANS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR
PT CLOVERLEAF, LLC
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(719) 476-0800
JDESJARDIN@PROTERRACO.COM

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Centennial 303-740-9393 • Colorado Springs 719-593-2593
Fort Collins 970-491-9888 • www.jrengineering.com

No.	REVISION	BY	DATE

H-SCALE	1"=50'		
V-SCALE	1"=5'		
DATE	08/18/21		
DESIGNED BY	APL		
DRAWN BY	APL		
CHECKED BY			

CLOVERLEAF FILING 2

STORM SEWER PLAN AND PROFILE

SHEET 3 OF 28

JOB NO. 25158.01

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Know what's **below.**
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DP06 PROFILE
STA 0+00.00 TO 6+77.61

50 25 0 50 100

HORIZONTAL
ORIGINAL SCALE: 1" = 50'
VERTICAL
ORIGINAL SCALE: 1" = 5'

NOTES

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ENGINEER'S STATEMENT

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING

COLORADO REGISTERED PROFESSIONAL ENGINEER MIKE A. BRAMLETT 32314

MIKE A. BRAMLETT, P.E.
COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING, LLC

DATE

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No.	REVISION	BY	DATE

H–SCALE	1"=50'		
V–SCALE	1"=5'		
DATE	08/18/21		
DESIGNED BY	APL		
DRAWN BY	APL		
CHECKED BY			

CLOVERLEAF FILING 2

STORM SEWER PLAN AND PROFILE

SHEET 4 OF 28

JOB NO. 25158.01

X:\2510000.all\2515801\Drawings\Sheet Dwgs\CDs\2515801DP01.dwg, DP02, 8/20/2021 11:34:21 AM, CS

DP04 PROFILE
STA 1+00.00 TO 1+53.73

DP01 PROFILE
STA 5+50.00 TO 13+50.18

NOTES

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50 25 0 50 100

HORIZONTAL
ORIGINAL SCALE: 1" = 50'
VERTICAL
ORIGINAL SCALE: 1" = 5'

ENGINEER'S STATEMENT

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING

COLORADO REGISTERED PROFESSIONAL ENGINEER MIKE A. BRAMLETT 32314

MIKE A. BRAMLETT, P.E. DATE
COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING, LLC

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No.	REVISION	BY	DATE

H–SCALE	1"=50'
V–SCALE	1"=5'
DATE	08/18/21
DESIGNED BY	APL
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CLOVERLEAF FILING 2

STORM SEWER PLAN AND PROFILE

SHEET 5 OF 28

JOB NO. 25158.01

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DP02 PROFILE
STA 1+00.00 TO 1+31.83

DP03 PROFILE
STA 1+00.00 TO 2+47.46

DP01 PROFILE (1)
STA 1+00.00 TO 5+50.00

NOTES

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Know what's **below.**
Call before you dig.

ENGINEER'S STATEMENT

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING

MIKE A. BRAMLETT, P.E.
COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING, LLC

DATE

COLORADO REGISTERED PROFESSIONAL ENGINEER MIKE A. BRAMLETT 32314

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No.	REVISION	BY	DATE

H-SCALE	1"=50'
V-SCALE	1"=5'
DATE	08/18/21
DESIGNED BY	APL
DRAWN BY	APL
CHECKED BY	

CLOVERLEAF FILING 2

STORM SEWER PLAN AND PROFILE

SHEET 6 OF 28

JOB NO. 25158.01

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DP05 PROFILE
STA 1+00.00 TO 10+31.15

DP12 PROFILE
STA 1+00.00 TO 1+60.47

Know what's **below.**
Call before you dig.

DP07 PROFILE
STA 1+00.00 TO 1+72.29

DP11 PROFILE
STA 1+00.00 TO 1+75.46

NOTES

1. SEE SHEET 1 FOR BENCHMARK. SEE SHEET 2 FOR LEGEND.
2. SEE SHEET 2 FOR ADDITIONAL NOTES.

50 25 0 50 100

HORIZONTAL
ORIGINAL SCALE: 1" = 50'
VERTICAL
ORIGINAL SCALE: 1" = 5'

ENGINEER'S STATEMENT

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING

MIKE A. BRAMLETT, P.E.
COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING, LLC

COLORADO REGISTERED MIKE A. BRAMLETT 32314 PROFESSIONAL ENGINEER

DATE

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DRAWN BY	APL	
CHECKED BY		

CLOVERLEAF FILING 2

STORM SEWER PLAN AND PROFILE

SHEET 7 OF 28

JOB NO. 25158.01

X:\2515000.all\2515801\Drawings\Sheet Dwgs\Ch\2515801DP01.dwg, DP05, 8/20/2021 11:36:37 AM, CS

NOTES

1. SEE SHEET 1 FOR BENCHMARK. SEE SHEET 2 FOR LEGEND.
2. SEE SHEET 2 FOR ADDITIONAL NOTES.

(A)

(B)

KEY MAP
N.T.S.

(C)

Know what's **below.**
Call before you dig.

CLOVERLEAF_CRIMSON ACCESS CULVERT PROFILE
STA 0+00.00 TO 1+33.68

DP13 PROFILE
STA 1+00.00 TO 1+63.18

DP14 PROFILE
STA 1+00.00 TO 2+86.51

SAND FILTER PROFILE
STA 1+00.00 TO 1+63.64

50 25 0 50 100
HORIZONTAL
ORIGINAL SCALE: 1" = 50'
VERTICAL
ORIGINAL SCALE: 1" = 5'

ENGINEER'S STATEMENT

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING

MIKE A. BRAMLETT, P.E.
COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING, LLC

DATE

COLORADO REGISTERED PROFESSIONAL ENGINEER MIKE A. BRAMLETT 32314

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR
PT CLOVERLEAF, LLC
1864 WOODMOOR DRIVE
COLORADO SPRINGS, CO 80920
ATTN: JOE DESJARDIN
(719) 476-0800
JDESJARDIN@PROTERRACO.COM

J·R ENGINEERING
A Westrian Company
Centennial 303-740-9393 • Colorado Springs 719-593-2593
Fort Collins 970-491-9888 • www.jrengineering.com

No.	REVISION	BY	DATE

H-SCALE	1"=50'
V-SCALE	1"=5'
DATE	08/18/21
DESIGNED BY	APL
DRAWN BY	APL
CHECKED BY	

CLOVERLEAF FILING 2

STORM SEWER PLAN AND PROFILE

SHEET 8 OF 28

JOB NO. 25158.01

X:\251000.all\25158\01\Drawings\Sheet Dwgs\CD\25158\01\DP01.dwg, DP06, 6/20/2021 11:37:30 AM, CS

POND 4- PLAN

KEY MAP
N.T.S.

20 10 0 20 40
ORIGINAL SCALE: 1" = 20'

NOTES

1. ALL PROPOSED POND IMPROVEMENTS ARE PRIVATE UNLESS OTHERWISE NOTED.
2. SEE SHEETS 3–8 FOR PROPOSED STORM SEWER DESIGN.

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

811 Know what's **below.** **Call** before you dig.

POINT TABULATION			
ID NO.	DESCRIPTION	NORTHING/EASTING	ELEVATION
M1	MAINT. ROAD	N: 455750.02 E: 185356.98	7009.59
M2	MAINT. ROAD	N: 455761.83 E: 185340.37	7008.60
M3	MAINT. ROAD	N: 455731.89 E: 185352.41	7008.17
M4	MAINT. ROAD	N: 455710.46 E: 185369.44	7005.51
M5	MAINT. ROAD	N: 455719.48 E: 185375.75	7005.63
M6	MAINT. ROAD	N: 455736.00 E: 185362.62	7007.95
S1	SPILLWAY	N: 455711.59 E: 185361.21	7005.84
S2	SPILLWAY	N: 455708.27 E: 185364.86	7005.55
S3	SPILLWAY	N: 455693.57 E: 185381.04	7005.75
S4	SPILLWAY	N: 455690.35 E: 185384.61	7005.80
T1	TOE	N: 455709.33 E: 185380.66	7004.48
T2	TOE	N: 455707.59 E: 185380.66	7004.35
T3	TOE	N: 455698.78 E: 185391.47	7004.49
T4	TOE	N: 455635.91 E: 185456.05	7005.28
T5	TOE	N: 455630.92 E: 185468.70	7005.06
T6	TOE	N: 455616.22 E: 185482.78	7005.15
T7	TOE	N: 455613.34 E: 185488.78	7005.28

POINT TABULATION			
ID NO.	DESCRIPTION	NORTHING/EASTING	ELEVATION
T8	TOE	N: 455615.15 E: 185492.35	7005.36
T9	TOE	N: 455623.15 E: 185492.51	7005.20
T10	TOE	N: 455652.05 E: 185487.14	7005.59
T11	TOE	N: 455670.22 E: 185481.24	7005.50
T12	TOE	N: 455684.19 E: 185444.86	7005.07
T13	TOE	N: 455686.05 E: 185437.70	7004.86
T14	TOE	N: 455689.31 E: 185427.66	7004.75
T15	TOE	N: 455703.50 E: 185402.36	7004.73
T16	TOE	N: 455709.36 E: 185396.77	7004.70
T17	TOE	N: 455712.88 E: 185386.20	7004.34
T18	TOE	N: 455713.43 E: 185383.53	7004.55
T20	TOP/MAINT. TRAIL	N: 455718.62 E: 185358.52	7006.75
T21	TOP/SPILLWAY	N: 455713.43 E: 185362.88	7006.75
T22	TOP/SPILLWAY	N: 455712.06 E: 185368.12	7005.71
T23	TOP/SPILLWAY	N: 455697.27 E: 185384.40	7005.20
T24	TOP/SPILLWAY	N: 455692.14 E: 185386.23	7006.75
T25	TOP	N: 455632.02 E: 185452.86	7006.75

POINT TABULATION			
ID NO.	DESCRIPTION	NORTHING/EASTING	ELEVATION
T26	TOP	N: 455609.46 E: 185481.27	7006.75
T27	TOP	N: 455599.25 E: 185498.45	7006.75
T28	TOP	N: 455601.57 E: 185502.57	7006.75
T29	TOP	N: 455619.17 E: 185499.78	7006.75
T30	TOP	N: 455654.39 E: 185491.75	7006.75
T31	TOP	N: 455675.28 E: 185485.14	7006.75
T32	TOP	N: 455690.68 E: 185448.43	7006.75
T33	TOP	N: 455697.37 E: 185426.80	7006.75
T34	TOP	N: 455709.06 E: 185406.69	7006.75
T35	TOP	N: 455714.85 E: 185406.77	7006.75
T36	TOP	N: 455723.72 E: 185387.16	7006.75
T37	TOP	N: 455721.98 E: 185377.28	7006.75
T38	TOP	N: 455726.53 E: 185368.21	7006.75
TC1	TRICKLE CHANNEL	N: 455655.80 E: 185457.80	7004.22
TC2	TRICKLE CHANNEL	N: 455665.97 E: 185447.07	7004.14
TC3	TRICKLE CHANNEL	N: 455678.94 E: 185428.51	7004.03

POND 4 TRICKLE CHANNEL
SCALE: 1"=3'

10' GRAVEL MAINTENANCE ACCESS ROAD TYPICAL SECTION
N.T.S.

POND 4 EMERGENCY SPILLWAY TYP. SECTION
SCALE: 1"=5'

LINE TABLE		
LINE	BEARING	DISTANCE
L7	S38°02'12"E	41.93'
L8	S55°02'56"E	22.64'
L9	S55°02'56"E	45.61'
L10	S52°30'58"E	1.00'

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C1	17°00'45"	50.00'	14.85'
C2	108°16'49"	8.00'	15.12'
C3	76°09'24"	5.16'	6.86'

ENGINEER'S STATEMENT

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING

MIKE A. BRAMLETT, P.E.
COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING, LLC

DATE

COLORADO LICENSED PROFESSIONAL ENGINEER MIKE A. BRAMLETT 32314

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

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No.	REVISION	BY	DATE

H-SCALE	1"=20'
V-SCALE	N/A
DATE	08/18/21
DESIGNED BY	GVT
DRAWN BY	GAG
CHECKED BY	

CLOVERLEAF FILING 2

POND PLANS AND DETAILS

SHEET 9 OF 28

JOB NO. 25158.01

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POND 4- PLAN

KEY MAP
N.T.S.

20 10 0 20 40
ORIGINAL SCALE: 1" = 20'

NOTES

1. ALL PROPOSED POND IMPROVEMENTS ARE PRIVATE UNLESS OTHERWISE NOTED.
2. SEE SHEETS 3–8 FOR PROPOSED STORM SEWER DESIGN.

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811 Know what's below. Call before you dig.

POND P4-1 PROFILE
STA 0+00.00 TO 0+50.49

POND P4-2 PROFILE
STA 0+00.00 TO 0+95.96

ENGINEER'S STATEMENT

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING

COLORADO REGISTERED PROFESSIONAL ENGINEER MIKE A. BRAMLETT 32314

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No.	REVISION	BY	DATE

H-SCALE	1"=20'
V-SCALE	1"=2'
DATE	08/18/21
DESIGNED BY	GVT
DRAWN BY	GAG
CHECKED BY	

CLOVERLEAF FILING 2

POND PLANS AND DETAILS

SHEET 10 OF 28

JOB NO. 25158.01

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POND 4 FOREBAY PLAN VIEW

SCALE: 3/8"=1'

POND 4 FOREBAY MAIN BAFFLE BLOCK PLAN

SCALE: 3/8"=1'

POND 4 FOREBAY SECONDARY BAFFLE BLOCK DETAILS

SCALE: 3/8"=1'

POND 4 FOREBAY CROSS SECTION A-A

SCALE: 3/8"=1'

POND 101 DT01 FOREBAY SECTION AT WEIR

SCALE: 3/8"=1'

POND 4 FOREBAY WINGWALL REINFORCING DETAIL

SCALE: N.T.S.

Know what's below. Call before you dig.

ENGINEER'S STATEMENT

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MIKE A. BRAMLETT, P.E.
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No.	REVISION	BY	DATE

H-SCALE	3/8"=1'
V-SCALE	3/8"=1'
DATE	08/18/21
DESIGNED BY	GAG
DRAWN BY	GAG
CHECKED BY	

CLOVERLEAF FILING 2

POND PLANS AND DETAILS

SHEET 11 OF 28

JOB NO. 25158.01

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POND 4 OUTLET STRUCTURE PLAN

SCALE: 3/8"=1'

CLOSE MESH GRATE DETAIL

N.T.S.

OVERFLOW GRATE DETAILS

N.T.S.

TRASH RACK AND PLATE DETAIL (PLAN)

N.T.S.

TRASH RACK DETAIL

N.T.S.

SHOVEL OPENING DETAIL

N.T.S.

OVERFLOW GRATE INSTALLATION DETAIL

N.T.S.

POND 4 OUTLET STRUCTURE PROFILE

SCALE: 3/8"=1'

A A-A SECTION

SCALE: 3/8"=1'

B B-B SECTION

SCALE: 3/8"=1'

ORIFICE PLATE DETAIL

SCALE: 3/8"=1'

CONCRETE STEP DETAIL

SCALE: 3/8"=1'

Know what's **below.** **Call** before you dig.

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MIKE A. BRAMLETT, P.E.
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No.	REVISION	BY	DATE

H-SCALE	3/8"=1'
V-SCALE	3/8"=1'
DATE	08/18/21
DESIGNED BY	GAG
DRAWN BY	GAG
CHECKED BY	

CLOVERLEAF FILING 2

POND PLANS AND DETAILS

SHEET 12 OF 28

JOB NO. 25158.01

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POINT TABULATION			
ID NO.	DESCRIPTION	NORTHING/EASTING	ELEVATION
M1	MAINT. ROAD	N: 455842.31 E: 186673.08	7073.04
M2	MAINT. ROAD	N: 455869.12 E: 186616.53	7073.04
M3	MAINT. ROAD	N: 455893.86 E: 186588.06	7073.04
M4	MAINT. ROAD	N: 455929.77 E: 186576.56	7073.04
M5	MAINT. ROAD	N: 456208.10 E: 186566.22	7073.00
M6	MAINT. ROAD	N: 456374.74 E: 186556.67	7071.98
M7	MAINT. ROAD	N: 456424.26 E: 186550.33	7071.90
M8	MAINT. ROAD	N: 456613.63 E: 186512.82	7072.77
M9	MAINT. ROAD	N: 456625.83 E: 186505.09	7072.63
M10	MAINT. ROAD	N: 456629.64 E: 186491.15	7072.47
M11	MAINT. ROAD	N: 456616.97 E: 186368.07	7070.00
M12	MAINT. ROAD	N: 456607.02 E: 186369.10	7069.74
M13	MAINT. ROAD	N: 456619.69 E: 186492.18	7072.67
M14	MAINT. ROAD	N: 456617.79 E: 186499.14	7072.82
M15	MAINT. ROAD	N: 456611.69 E: 186503.01	7072.97
M16	MAINT. ROAD	N: 456423.23 E: 186540.35	7072.32
M17	MAINT. ROAD	N: 456373.60 E: 186546.73	7072.25
M18	MAINT. ROAD	N: 456219.47 E: 186555.56	7073.18
M19	MAINT. ROAD	N: 455929.40 E: 186566.57	7073.24
M20	MAINT. ROAD	N: 455888.36 E: 186579.71	7073.24
M21	MAINT. ROAD	N: 455860.09 E: 186612.24	7073.24
M22	MAINT. ROAD	N: 455818.52 E: 186699.92	7073.25
M23	MAINT. ROAD	N: 455886.75 E: 186625.77	7069.29

POINT TABULATION			
ID NO.	DESCRIPTION	NORTHING/EASTING	ELEVATION
M24	MAINT. ROAD	N: 455876.36 E: 186634.66	7070.00
M25	MAINT. ROAD	N: 455811.38 E: 186707.97	7073.31
M26	MAINT. ROAD	N: 455796.60 E: 186739.15	7073.31
M27	MAINT. ROAD	N: 455793.52 E: 186787.09	7074.63
M28	MAINT. ROAD	N: 455824.20 E: 186824.05	7075.94
M29	MAINT. ROAD	N: 455881.31 E: 186862.95	7079.71
M30	MAINT. ROAD	N: 455929.52 E: 186912.45	7084.23
M31	MAINT. ROAD	N: 455930.38 E: 186915.24	7084.40
M32	MAINT. ROAD	N: 455929.11 E: 186917.87	7084.58
M33	MAINT. ROAD	N: 455859.27 E: 186982.75	7093.41
M34	MAINT. ROAD	N: 455869.86 E: 186993.39	7093.83
M35	MAINT. ROAD	N: 455939.32 E: 186928.86	7084.20
M36	MAINT. ROAD	N: 455945.34 E: 186916.37	7083.31
M37	MAINT. ROAD	N: 455941.26 E: 186903.11	7083.93
M38	MAINT. ROAD	N: 455890.96 E: 186851.47	7079.40
M39	MAINT. ROAD	N: 455831.37 E: 186810.88	7075.63
M40	MAINT. ROAD	N: 455807.78 E: 186782.45	7074.33
M41	MAINT. ROAD	N: 455810.15 E: 186745.57	7073.01
M42	MAINT. ROAD	N: 455824.02 E: 186716.33	7073.00
M43	MAINT. ROAD	N: 455886.91 E: 186645.38	7069.43
M44	MAINT. ROAD	N: 455891.37 E: 186640.34	7068.83
T1	TOE	N: 456413.61 E: 186593.15	7067.01
T2	TOE	N: 456328.97 E: 186620.43	7066.90

POINT TABULATION			
ID NO.	DESCRIPTION	NORTHING/EASTING	ELEVATION
T3	TOE	N: 456306.32 E: 186625.94	7066.82
T4	TOE	N: 456240.96 E: 186633.60	7066.36
T5	TOE	N: 456203.99 E: 186643.21	7066.25
T6	TOE	N: 456160.89 E: 186659.64	7066.47
T7	TOE	N: 456124.98 E: 186678.53	7066.91
T8	TOE	N: 456093.67 E: 186705.02	7068.38
T9	TOE	N: 455983.58 E: 186797.19	7068.58
T10	TOE	N: 455954.31 E: 186810.68	7067.69
T11	TOE	N: 455929.48 E: 186813.19	7067.67
T12	TOE	N: 455897.60 E: 186806.09	7068.55
T13	TOE	N: 455873.20 E: 186798.26	7069.20
T14	TOE	N: 455858.29 E: 186794.84	7069.61
T15	TOE	N: 455832.24 E: 186776.72	7070.24
T16	TOE	N: 455827.42 E: 186737.04	7070.15
T17	TOE	N: 455832.38 E: 186726.82	7070.00
T18	TOE	N: 455876.42 E: 186681.51	7068.79
T19	TOE	N: 455883.90 E: 186660.93	7068.81
T20	TOE	N: 455893.70 E: 186621.30	7069.12
T21	TOE	N: 455898.03 E: 186606.28	7069.23
T22	TOE	N: 455930.48 E: 186595.60	7068.74
T23	TOE	N: 456105.81 E: 186601.23	7066.90
T24	TOE	N: 456167.68 E: 186599.52	7065.56
T25	TOE	N: 456205.64 E: 186593.52	7066.70

POINT TABULATION			
ID NO.	DESCRIPTION	NORTHING/EASTING	ELEVATION
T26	TOE	N: 456368.66 E: 186583.49	7066.90
T27	TOE	N: 456409.74 E: 186569.20	7067.31
T28	TOE	N: 456414.59 E: 186580.00	7066.98
T29	TOP	N: 456442.05 E: 186579.64	7073.00
T30	TOP	N: 456419.31 E: 186617.66	7073.00
T31	TOP	N: 456335.84 E: 186645.93	7073.00
T32	TOP	N: 456296.42 E: 186655.10	7073.00
T33	TOP	N: 456249.94 E: 186661.20	7073.00
T34	TOP	N: 456221.20 E: 186666.17	7073.00
T35	TOP	N: 456168.72 E: 186685.03	7073.00
T36	TOP	N: 456136.14 E: 186700.45	7073.00
T37	TOP	N: 456103.33 E: 186721.00	7073.00
T38	TOP	N: 456075.98 E: 186742.05	7073.00
T39	TOP	N: 455979.98 E: 186823.14	7073.00
T40	TOP	N: 455950.58 E: 186833.42	7073.00
T41	TOP	N: 455903.27 E: 186828.70	7073.00
T42	TOP	N: 455868.63 E: 186812.93	7073.00
T43	TOP	N: 455853.68 E: 186807.47	7073.00
T44	TOP	N: 455812.76 E: 186774.67	7073.00
T45	TOP	N: 455819.72 E: 186725.40	7073.00
T46	TOP	N: 455847.07 E: 186667.71	7073.00
T47	TOP	N: 455869.22 E: 186616.76	7073.00
T48	TOP	N: 455897.46 E: 186586.05	7073.00

POINT TABULATION			
ID NO.	DESCRIPTION	NORTHING/EASTING	ELEVATION
T49	TOP	N: 455931.77 E: 186576.60	7073.00
T50	TOP	N: 456218.27 E: 186565.74	7073.00
T51	TOP	N: 456367.16 E: 186557.36	7073.00
T52	TOP	N: 456435.17 E: 186565.98	7073.00
TC1	TRICKLE CHANNEL	N: 455939.64 E: 186792.76	7066.83
TC2	TRICKLE CHANNEL	N: 455935.22 E: 186747.86	7066.60
TC3	TRICKLE CHANNEL	N: 456037.60 E: 186638.10	7065.72
TC4	TRICKLE CHANNEL	N: 456094.31 E: 186639.72	7065.43
TC5	TRICKLE CHANNEL	N: 456104.39 E: 186639.33	7065.38
TC6	TRICKLE CHANNEL	N: 456135.29 E: 186636.04	7065.22
TC7	TRICKLE CHANNEL	N: 456161.67 E: 186600.41	7065.00
TC8	TRICKLE CHANNEL	N: 456197.06 E: 186626.73	7065.32
TC9	TRICKLE CHANNEL	N: 456414.78 E: 186585.67	7066.43

LINE TABLE		
LINE	BEARING	DISTANCE
L6	S84°22'20"W	45.12'
L8	N01°38'18"E	56.74'
L10	N06°04'25"W	21.04'
L12	N10°40'50"W	221.56'

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C6	97°15'58"	100.00'	169.76'
C7	7°42'43"	75.00'	10.09'
C8	95°00'29"	30.01'	49.77'
C9	94°37'15"	30.00'	49.54'

KEY MAP
N.T.S.

40 20 0 40 80
ORIGINAL SCALE: 1" = 40'

NOTES

1. ALL PROPOSED POND IMPROVEMENTS ARE PRIVATE UNLESS OTHERWISE NOTED.
2. SEE SHEETS 3–8 FOR PROPOSED STORM SEWER DESIGN.

Know what's **below.** **Call** before you dig.

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POND 1 PLAN

POND 1 EMERGENCY SPILLWAY W/ CONCRETE CUTOFF WALL TYP. SECTION
SCALE: 1"=5'

15' GRAVEL MAINTENANCE ACCESS ROAD TYPICAL SECTION
N.T.S.

POND 1 TRICKLE CHANNEL
SCALE: 1"=3'

ENGINEER'S STATEMENT

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING

MIKE A. BRAMLETT, P.E.
COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING, LLC

COLORADO REGISTERED MIKE A. BRAMLETT 32314 PROFESSIONAL ENGINEER

DATE

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR
PT CLOVERLEAF, LLC
1864 WOODMOOR DRIVE
COLORADO SPRINGS, CO 80920
ATTN: JOE DESJARDIN
(719) 476–0800
JDESJARDIN@PROTERRACO.COM

J·R ENGINEERING
A Westrian Company
Centennial 303–740–9393 • Colorado Springs 719–593–2593
Fort Collins 970–491–9888 • www.jrengineering.com

No.	REVISION	BY	DATE

H–SCALE	1"=40'
V–SCALE	N/A
DATE	08/18/21
DESIGNED BY	GVT
DRAWN BY	GVT
CHECKED BY	

CLOVERLEAF FILING 2

POND PLANS AND DETAILS

SHEET 13 OF 28

JOB NO. 25158.01

X:\2510000.all\2515801\Drawings\Sheet Dwgs\Ch\2515801P01.dwg, P1 Plan, 8/20/2021 11:41:12 AM, CS

P1-1 PROFILE
STA 0+00.00 TO 2+21.69

P1-2 PROFILE
STA 0+00.00 TO 1+45.94

40 20 0 40 80

HORIZONTAL
ORIGINAL SCALE: 1" = 40'
VERTICAL
ORIGINAL SCALE: 1" = 4'

NOTES

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2. SEE SHEETS 3–8 FOR PROPOSED STORM SEWER DESIGN.

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POND 1 PLAN

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COLORADO REGISTERED PROFESSIONAL ENGINEER
MIKE A. BRAMLETT
32314

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No.	REVISION	BY	DATE

H–SCALE	1"=40'
V–SCALE	1"=4'
DATE	08/18/21
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CLOVERLEAF FILING 2

POND PLANS AND DETAILS

SHEET 14 OF 28

JOB NO. 25158.01

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POND 1
ROCK CHUTE AND BASIN
SCALE: 3/8" = 1'

POND 1
INLET CHANNEL
TYP. CROSS-SECTION
SCALE: 3/8" = 1'

POND 1
ROCK CHUTE AND BASIN
PLAN VIEW
SCALE: 1/8" = 1'

POND 1
ROCK CHUTE AND BASIN
TYP. CROSS-SECTION
SCALE: 3/8" = 1'

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H-SCALE	VARIES
V-SCALE	VARIES
DATE	08/18/21
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POND PLANS AND DETAILS

SHEET 15 OF 28

JOB NO. 25158.01

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POND 1
OUTLET STRUCTURE PLAN
SCALE: 3/8"=1'

CONCRETE STEP DETAIL
SCALE: 3/8"=1'

POND 1
OUTLET STRUCTURE PROFILE
SCALE: 3/8"=1'

A A-A SECTION
SCALE: 3/8"=1'

TRASH GRATE DETAIL
(PLAN)
N.T.S.

TRASH GRATE CONNECTION TO WALLS
N.T.S.

811
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No.	REVISION	BY	DATE

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V-SCALE	3/8"=1'
DATE	08/18/21
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CLOVERLEAF FILING 2
POND PLANS AND DETAILS

SHEET 16 OF 28
JOB NO. 25158.01

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POINT TABULATION			
ID NO.	DESCRIPTION	NORTHING/EASTING	ELEVATION
M1	MAINT. ROAD	N: 455732.46 E: 185646.43	7024.96
M2	MAINT. ROAD	N: 455873.71 E: 185680.33	7030.30
M3	MAINT. ROAD	N: 455879.71 E: 185682.16	7030.07
M4	MAINT. ROAD	N: 455885.10 E: 185685.34	7030.25
M5	MAINT. ROAD	N: 455980.46 E: 185749.61	7026.93
M6	MAINT. ROAD	N: 456028.14 E: 185828.24	7025.31
M7	MAINT. ROAD	N: 456030.85 E: 185852.13	7024.69
M8	MAINT. ROAD	N: 456015.44 E: 185849.40	7024.53
M9	MAINT. ROAD	N: 456013.24 E: 185829.92	7025.02
M10	MAINT. ROAD	N: 455929.07 E: 185762.05	7026.29
M11	MAINT. ROAD	N: 455876.28 E: 185697.48	7030.31
M12	MAINT. ROAD	N: 455873.67 E: 185695.89	7030.17
M13	MAINT. ROAD	N: 455870.73 E: 185695.04	7030.02
S1	SPILLWAY TOE	N: 455826.95 E: 185716.57	7027.84
S2	SPILLWAY TOE	N: 455727.56 E: 185687.58	7027.21
S3	SPILLWAY TOE	N: 455729.47 E: 185671.48	7026.33
S4	SPILLWAY TOE	N: 455831.43 E: 185701.21	7027.84

POINT TABULATION			
ID NO.	DESCRIPTION	NORTHING/EASTING	ELEVATION
S5	SPILLWAY TOE	N: 455869.23 E: 185700.29	7028.12
S6	SPILLWAY TOP	N: 455824.15 E: 185726.17	7030.34
S7	SPILLWAY TOP	N: 455726.36 E: 185697.65	7027.75
S8	SPILLWAY TOP/MAINT. ROAD	N: 455730.67 E: 185661.41	7025.78
S9	SPILLWAY TOP	N: 455834.23 E: 185691.61	7029.47
T1	TOE	N: 456196.51 E: 185860.07	7026.92
T2	TOE	N: 456194.31 E: 185886.26	7026.49
T3	TOE	N: 456192.25 E: 185910.80	7027.02
T4	TOE/FOREBAY	N: 456074.58 E: 185921.13	7026.28
T5	TOE/FOREBAY	N: 456058.98 E: 185922.64	7026.28
T6	TOE	N: 455935.99 E: 185933.24	7026.52
T7	TOE	N: 455873.95 E: 185908.84	7025.76
T8	TOE/FOREBAY	N: 455856.09 E: 185843.33	7025.17
T9	TOE/FOREBAY	N: 455858.58 E: 185830.11	7024.95
T10	TOE	N: 455873.27 E: 185751.88	7022.81
T11	TOE	N: 455874.19 E: 185748.55	7022.74
T12	TOE	N: 455875.68 E: 185745.43	7022.67

POINT TABULATION			
ID NO.	DESCRIPTION	NORTHING/EASTING	ELEVATION
T13	TOE	N: 455877.69 E: 185742.61	7022.59
T14	TOE	N: 455883.54 E: 185737.91	7022.57
T15	TOE	N: 455902.00 E: 185753.40	7023.17
T16	TOE	N: 455940.54 E: 185760.17	7025.00
T17	TOE	N: 455982.65 E: 185755.05	7026.66
T18	TOE	N: 456091.94 E: 185790.68	7027.05
T19	TOP	N: 456225.18 E: 185919.99	7030.00
T20	TOP/FOREBAY	N: 456072.49 E: 185939.85	7030.00
T21	TOP/FOREBAY	N: 456064.83 E: 185940.62	7030.00
T22	TOP	N: 455929.91 E: 185949.77	7030.00
T23	TOP	N: 455869.86 E: 185929.94	7030.00
T24	TOP	N: 455836.83 E: 185873.99	7030.00
T25	TOP	N: 455844.40 E: 185742.36	7030.00
T26	TOP	N: 455835.74 E: 185734.87	7030.00
T30	TOP/MAINT. ROAD	N: 455875.64 E: 185698.20	7030.00
T31	TOP/MAINT. ROAD	N: 455945.22 E: 185725.85	7030.00
T32	TOP/MAINT. ROAD	N: 456092.63 E: 185775.71	7030.00

POINT TABULATION			
ID NO.	DESCRIPTION	NORTHING/EASTING	ELEVATION
T33	TOP/MAINT. ROAD	N: 456208.06 E: 185853.24	7030.00
T34	TOP/MAINT. ROAD	N: 455901.35 E: 185696.29	7030.25
T35	TOP/MAINT. ROAD	N: 456101.53 E: 185767.79	7030.00
T36	TOE/MAINT. ROAD	N: 455887.44 E: 185705.00	7030.12
T37	TOE/MAINT. ROAD	N: 455964.90 E: 185757.21	7026.74
TC1	TRICKLE CHANNEL	N: 456064.41 E: 185898.85	7024.65
TC2	TRICKLE CHANNEL	N: 456052.26 E: 185870.89	7024.45
TC3	TRICKLE CHANNEL	N: 456185.30 E: 185883.03	7025.76
TC4	TRICKLE CHANNEL	N: 456023.30 E: 185854.35	7024.12
TC5	TRICKLE CHANNEL	N: 455955.29 E: 185842.30	7023.43
TC6	TRICKLE CHANNEL	N: 455918.85 E: 185824.82	7023.02
TC7	TRICKLE CHANNEL	N: 455867.13 E: 185837.89	7023.29
TC8	TRICKLE CHANNEL	N: 455893.79 E: 185827.22	7022.99
TC9	TRICKLE CHANNEL	N: 455899.27 E: 185799.02	7022.69
TC10	TRICKLE CHANNEL	N: 455896.72 E: 185791.00	7022.61
TC11	TRICKLE CHANNEL	N: 455878.34 E: 185733.07	7019.17

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N10°02'28"E	164.48'
L2	N10°02'28"E	69.12'
L3	N72°23'27"E	60.78'
L4	S84°07'17"W	18.94'
L5	S13°41'44"W	2.84'
L6	S06°47'26"W	2.01'
L7	N72°23'27"E	8.41'

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C1	62°20'59"	75.20'	81.83'
C2	70°25'33"	50.40'	61.95'
C3	114°23'59"	30.00'	59.90'

KEY MAP
N.T.S.

NOTES

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20 10 0 20 40
ORIGINAL SCALE: 1" = 20'

10' GRAVEL MAINTENANCE ACCESS ROAD TYPICAL SECTION
N.T.S.

15' GRAVEL MAINTENANCE ACCESS ROAD TYPICAL SECTION
N.T.S.

POND 2 TRICKLE CHANNEL
SCALE: 1"=3'

ENGINEER'S STATEMENT

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING

MIKE A. BRAMLETT, P.E.
COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING, LLC

DATE

COLORADO REGISTERED MIKE A. BRAMLETT 32314 PROFESSIONAL ENGINEER

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H–SCALE	1"=20'
V–SCALE	N/A
DATE	08/18/21
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CLOVERLEAF FILING 2

POND PLANS AND DETAILS

SHEET 17 OF 28

JOB NO. 25158.01

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POND P2-1 PROFILE
STA 0+00.00 TO 2+31.77

POND P2-2 PROFILE
STA 0+00.00 TO 1+34.60

20 10 0 20 40

HORIZONTAL
ORIGINAL SCALE: 1" = 20'

VERTICAL
ORIGINAL SCALE: 1" = 2'

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No.	REVISION	BY	DATE

H–SCALE	1"=20'
V–SCALE	1"=2'
DATE	08/18/21
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POND PLANS AND DETAILS

SHEET 18 OF 28

JOB NO. 25158.01

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POND 2 NORTH FOREBAY
PLAN VIEW
SCALE: 3/8"=1'

POND 2 NORTH FOREBAY CROSS SECTION A-A
SCALE: 3/8"=1'

POND 2 NORTH FOREBAY
MAIN BAFFLE BLOCK PLAN
SCALE: 3/8"=1'

POND 2 NORTH FOREBAY
SECTION AT WEIR
SCALE: 3/8"=1'

POND 2 NORTH FOREBAY SECONDARY
BAFFLE BLOCK DETAILS
SCALE: 3/8"=1'

POND 2 NORTH FOREBAY WINGWALL
REINFORCING DETAIL
SCALE: N.T.S.

POND 2 SOUTH FOREBAY
PLAN VIEW
SCALE: 3/8"=1'

POND 2 SOUTH FOREBAY CROSS SECTION A-A
SCALE: 3/8"=1'

POND 2 SOUTH FOREBAY
MAIN BAFFLE BLOCK PLAN
SCALE: 3/8"=1'

POND 2 SOUTH FOREBAY
SECTION AT WEIR
SCALE: 3/8"=1'

POND 2 SOUTH FOREBAY SECONDARY
BAFFLE BLOCK DETAILS
SCALE: 3/8"=1'

POND 2 SOUTH WINGWALL
REINFORCING DETAIL
SCALE: N.T.S.

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No.	REVISION	BY	DATE

H-SCALE	3/8"=1'
V-SCALE	3/8"=1'
DATE	08/18/21
DESIGNED BY	GAG
DRAWN BY	GAG
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CLOVERLEAF FILING 2

POND PLANS AND DETAILS

SHEET 19 OF 28

JOB NO. 25158.01

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POND 2
OUTLET STRUCTURE PLAN
SCALE: 3/8"=1'

OVERFLOW GRATE DETAILS
N.T.S.

TRASH RACK AND PLATE DETAIL (PLAN)
N.T.S.

TRASH RACK DETAIL
N.T.S.

SHOVEL OPENING DETAIL
N.T.S.

⅜" THICK ORIFICE PLATE, GALVANIZED STEEL WITH 3 – 1 9/32"ø CIRCULAR ORIFICES AND 1 – 3¼"ø CIRCULAR ORIFICE BOLT PLATE TO CONCRETE @ 10" O.C. MAX.
PROVIDE GASKET BETWEEN PLATE AND CONCRETE

ORIFICE PLATE DETAIL
SCALE: 3/8"=1'

OVERFLOW GRATE INSTALLATION DETAIL
N.T.S.

POND 2
OUTLET STRUCTURE PROFILE
SCALE: 3/8"=1'

A A–A SECTION
SCALE: 3/8"=1'

B B–B SECTION
SCALE: 3/8"=1'

CONCRETE STEP DETAIL
SCALE: 3/8"=1'

POND 2 EMERGENCY SPILLWAY
W/ CONCRETE CUTOFF WALL
TYP. SECTION
SCALE: 1"=5'

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POND PLANS AND DETAILS

SHEET 20 OF 28
JOB NO. 25158.01

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KEY MAP
N.T.S.

20 10 0 20 40
ORIGINAL SCALE: 1" = 20'

NOTES

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2. SEE SHEETS 3–8 FOR PROPOSED STORM SEWER DESIGN.

POND 3 TRICKLE CHANNEL
SCALE: 1"=3'

10' GRAVEL MAINTENANCE ACCESS ROAD TYPICAL SECTION
N.T.S.

POND 3 EMERGENCY SPILLWAY TYP. SECTION
SCALE: 1"=5'

POINT TABULATION			
ID NO.	DESCRIPTION	NORTHING/EASTING	ELEVATION
M1	MAINT. ROAD/TOP	N: 454988.78 E: 187037.94	7051.84
M2	MAINT. ROAD	N: 454999.56 E: 186983.63	7053.75
M3	MAINT. ROAD	N: 455010.61 E: 186965.42	7053.75
M4	MAINT. ROAD	N: 455022.27 E: 186950.74	7053.75
M5	MAINT. ROAD	N: 455033.95 E: 186932.54	7053.91
M6	MAINT. ROAD	N: 455043.49 E: 186897.47	7054.27
M7	MAINT. ROAD	N: 455048.04 E: 186883.88	7054.41
M8	TOE/MAINT. ROAD	N: 455072.07 E: 186840.47	7054.25
M9	TOE/MAINT. ROAD	N: 455074.85 E: 186833.87	7054.11
M10	TOE/MAINT. ROAD	N: 455093.34 E: 186772.12	7047.73
M11	TOE/MAINT. ROAD	N: 455099.65 E: 186757.64	7047.94
M12	TOE/MAINT. ROAD	N: 455084.57 E: 186761.60	7047.39
M13	TOE/MAINT. ROAD	N: 455081.85 E: 186768.67	7047.89
M14	TOE/MAINT. ROAD	N: 455063.35 E: 186830.42	7054.35
M15	TOE/MAINT. ROAD	N: 455050.93 E: 186853.88	7054.92
M16	TOE/MAINT. ROAD	N: 455037.54 E: 186878.07	7054.53
M17	TOE/MAINT. ROAD	N: 455031.61 E: 186895.79	7054.47
M18	TOE/MAINT. ROAD	N: 455029.81 E: 186908.46	7054.34
M19	TOE/MAINT. ROAD	N: 455013.27 E: 186942.80	7053.95
M20	TOE/MAINT. ROAD	N: 455000.23 E: 186959.40	7053.87

POINT TABULATION			
ID NO.	DESCRIPTION	NORTHING/EASTING	ELEVATION
M21	TOE/MAINT. ROAD	N: 454993.68 E: 186970.70	7053.87
M22	TOE/MAINT. ROAD	N: 454976.88 E: 187036.40	7052.44
M23	TOE/MAINT. ROAD	N: 454974.34 E: 187045.70	7051.63
S1	SPILLWAY TOP	N: 454950.02 E: 187064.05	7053.75
S2	SPILLWAY TOP	N: 454948.12 E: 187069.55	7052.50
S3	SPILLWAY TOP	N: 454949.07 E: 187083.55	7052.50
S4	SPILLWAY TOP	N: 454951.18 E: 187087.92	7053.75
S5	SPILLWAY TOP	N: 454943.10 E: 187094.58	7053.75
S6	SPILLWAY TOP	N: 454939.69 E: 187087.00	7052.50
S7	SPILLWAY TOP	N: 454938.26 E: 187067.79	7052.50
S8	SPILLWAY TOP	N: 454941.01 E: 187059.70	7053.75
T1	TOE/OUTLET	N: 454963.26 E: 187078.92	7050.50
T2	TOE	N: 454959.69 E: 187083.09	7051.21
T3	TOE	N: 454971.39 E: 187097.55	7051.16
T4	TOE	N: 454980.59 E: 187103.42	7051.38
T5	TOE	N: 454990.53 E: 187113.28	7051.78
T6	TOE	N: 455009.80 E: 187106.34	7051.92
T7	TOE	N: 455016.99 E: 187090.68	7051.72
T8	TOE	N: 455031.07 E: 187033.32	7051.50
T9	TOE/MAINT. ROAD	N: 455033.53 E: 186971.07	7051.41

POINT TABULATION			
ID NO.	DESCRIPTION	NORTHING/EASTING	ELEVATION
T10	TOE/MAINT. ROAD	N: 455020.69 E: 186969.70	7051.17
T11	TOE	N: 455012.24 E: 186988.13	7051.16
T12	TOE	N: 455004.00 E: 187002.27	7051.20
T13	TOE	N: 454994.23 E: 187027.29	7051.15
T14	TOE	N: 454982.43 E: 187057.29	7050.82
T15	TOE	N: 454969.77 E: 187051.70	7051.07
T16	TOE	N: 454960.52 E: 187065.54	7050.83
T17	TOE	N: 454957.46 E: 187075.29	7051.26
T18	TOE/OUTLET	N: 454962.35 E: 187076.06	7050.50
T19	TOP	N: 454954.16 E: 187091.86	7053.75
T20	TOP	N: 454977.75 E: 187110.99	7053.75
T21	TOP	N: 455015.21 E: 187109.99	7053.75
T22	TOP	N: 455039.65 E: 187021.29	7053.75
T23	TOP	N: 455041.60 E: 186967.35	7053.75
T24	TOP	N: 455033.24 E: 186950.35	7053.75
T25	TOP	N: 455027.72 E: 186947.58	7053.75
T26	TOP	N: 455023.74 E: 186956.85	7053.75
T27	TOP	N: 455011.69 E: 186965.42	7053.75
T28	TOP	N: 455005.95 E: 186980.79	7053.75
T29	TOP	N: 454993.86 E: 186998.68	7053.75

POINT TABULATION			
ID NO.	DESCRIPTION	NORTHING/EASTING	ELEVATION
T30	TOP	N: 454978.89 E: 187020.83	7053.75
T31	TOP	N: 454951.82 E: 187060.91	7053.75
T32	TOP	N: 454946.81 E: 187098.65	7053.75
T33	TOP	N: 454955.72 E: 187108.30	7053.75
T34	TOP	N: 454974.60 E: 187120.48	7053.75
T35	TOP	N: 454981.75 E: 186998.74	7053.75
T36	TOP	N: 454943.53 E: 187055.32	7053.75
TC1	TRICKLE CHANNEL	N: 454956.40 E: 187079.53	7052.04
TC2	TRICKLE CHANNEL	N: 454972.28 E: 187074.48	7050.05
TC3	TRICKLE CHANNEL	N: 455005.57 E: 187039.18	7050.30
TC4	TRICKLE CHANNEL	N: 455023.33 E: 186969.50	7050.66
TC5	TRICKLE CHANNEL	N: 455023.73 E: 186968.01	7050.67
TC6	TRICKLE CHANNEL	N: 455024.26 E: 186965.82	7051.16

LINE TABLE		
LINE	BEARING	DISTANCE
L7	S17°39'02"E	16.66'
L8	S75°42'05"E	71.91'
L9	S73°55'52"E	0.88'

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C1	58°03'03"	50.00'	50.66'
C2	1°46'13"	50.00'	1.54'
C3	7°47'49"	10.12'	1.38'

811 Know what's below. Call before you dig.

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ENGINEER'S STATEMENT

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING

MIKE A. BRAMLETT, P.E.
COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING, LLC

DATE

COLORADO REGISTERED MIKE A. BRAMLETT 32314 PROFESSIONAL ENGINEER

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR
PT CLOVERLEAF, LLC
1864 WOODMOOR DRIVE
COLORADO SPRINGS, CO 80920
ATTN: JOE DESJARDIN
(719) 476–0800
JDESJARDIN@PROTERRACO.COM

J·R ENGINEERING
A Westrian Company
Centennial 303–740–9393 • Colorado Springs 719–593–2593
Fort Collins 970–491–9888 • www.jrengineering.com

No.	REVISION	BY	DATE

H–SCALE	1"=20'
V–SCALE	N/A
DATE	08/18/21
DESIGNED BY	GVT
DRAWN BY	GVT
CHECKED BY	

CLOVERLEAF FILING 2

POND PLANS AND DETAILS

SHEET 21 OF 28

JOB NO. 25158.01

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POND P3-1 PROFILE
STA 0+00.00 TO 1+06.29

POND P3-2 PROFILE
STA 0+00.00 TO 1+09.25

NOTES

1. ALL PROPOSED POND IMPROVEMENTS ARE PRIVATE UNLESS OTHERWISE NOTED.
2. SEE SHEETS 3-8 FOR PROPOSED STORM SEWER DESIGN.

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COLORADO LICENSED PROFESSIONAL ENGINEER MIKE A. BRAMLETT 32314

MIKE A. BRAMLETT, P.E. DATE
COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING, LLC

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No.	REVISION	BY	DATE

H-SCALE	1"=20'
V-SCALE	1"=2'
DATE	08/18/21
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CLOVERLEAF FILING 2
POND PLANS AND DETAILS

SHEET 22 OF 28
JOB NO. 25158.01

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POND 3
OUTLET STRUCTURE PLAN
SCALE: 3/8"=1'

CLOSE MESH GRATE DETAIL
N.T.S.

OVERFLOW GRATE DETAILS
N.T.S.

R VALUE=(NET OPEN AREA/(GROSS RACK AREA)=0.60

TRASH RACK DETAIL
N.T.S.

TRASH RACK AND PLATE DETAIL (PLAN)
N.T.S.

SHOVEL OPENING DETAIL
N.T.S.

OVERFLOW GRATE INSTALLATION DETAIL
N.T.S.

POND 3
OUTLET STRUCTURE PROFILE
SCALE: 3/8"=1'

A A-A SECTION
SCALE: 3/8"=1'

B B-B SECTION
SCALE: 3/8"=1'

⅜" THICK ORIFICE PLATE, GALVANIZED STEEL WITH 3 - 1⅛"ø CIRCULAR ORIFICES AND 1 - ⅝" CIRCULAR ORIFICE BOLT PLATE TO CONCRETE @ 10" O.C. MAX. PROVIDE GASKET BETWEEN PLATE AND CONCRETE

ORIFICE PLATE DETAIL
SCALE: 3/8"=1'

CONCRETE STEP DETAIL
SCALE: 3/8"=1'

Know what's below. Call before you dig.

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No.	REVISION	BY	DATE

H-SCALE	3/8"=1"
V-SCALE	3/8"=1"
DATE	08/18/21
DESIGNED BY	GAG
DRAWN BY	GAG
CHECKED BY	

CLOVERLEAF FILING 2

POND PLANS AND DETAILS

SHEET 23 OF 28

JOB NO. 25158.01

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SAND FILTER-PLAN

POND SF-1 PROFILE
STA 0+00.00 TO 0+67.45

POND SF-2 PROFILE
STA 0+00.00 TO 0+43.35

10 5 0 10 20
ORIGINAL SCALE: 1" = 10'

NOTES

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No.	REVISION	BY	DATE

H–SCALE	1"=10'
V–SCALE	1"=5'
DATE	08/18/21
DESIGNED BY	GAG
DRAWN BY	GAG
CHECKED BY	

CLOVERLEAF FILING 2

POND PLANS AND DETAILS

SHEET 24 OF 28

JOB NO. 25158.01

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DRAIN BASIN
OUTLET FRONT DETAIL
SCALE: N.T.S.

SAND FILTER
LONGITUDINAL CROSS
SECTION DETAILS
SCALE: N.T.S.

NOTE: SEE URBAN DRAINAGE VOLUME 3 FACT SHEETS T-6
FOR FURTHER DETAILS AND SPECIFICATIONS.

SAND FILTER UNDERDRAIN
END CAP DETAIL
SCALE: N.T.S.

SAND FILTER
SUB-SURFACE SECTION
SCALE: N.T.S.

Know what's **below.**
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COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING, LLC

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No.	REVISION	BY	DATE

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V-SCALE	N.T.S.
DATE	08/18/21
DESIGNED BY	GAG
DRAWN BY	GAG
CHECKED BY	

CLOVERLEAF FILING 2

POND PLANS AND DETAILS

SHEET 25 OF 28

JOB NO. 25158.01

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PIPE ID	BW
18" AND SMALLER	3'-4"
24"	4'-10"
60" AND LARGER	OD + 16"

NOTES

1. TYPE I MANHOLE SHALL BE USED WHEN APPROPRIATE AND TYPICALLY FOR PIPE SIZES LARGER THAN 30 INCHES I.D.

2. VIEW AND DETAILS SHOWN ARE TYPICAL FOR STRAIGHT THROUGH DESIGN ONLY. DESIGN ENGINEER SHALL DETERMINE MANHOLE BASE CONFIGURATION AND DIMENSIONS FOR PARTICULAR PIPE SIZES AND ALIGNMENT.

3. EITHER LADDER OR STEPS SHALL BE INSTALLED WHEN MANHOLE DEPTH EXCEEDS 30". LOWEST STEP SHALL BE A MAXIMUM OF 16" ABOVE THE FLOOR.

4. FLOOR OF THE MANHOLE SHALL BE TROWELLED TO A SMOOTH, HARD SURFACE AND SHALL SLOPE TOWARDS THE OUTLET (8:1 MAX., ½" PER FT. MIN). FLOOR SHALL BE SHAPED AND CHANNELED; SEE SD_3-2 FOR TYPICAL CHANNEL DETAILS.

SCALE: NOT TO SCALE

7/9/09	Storm Sewer Manhole Detail Type I Standard Drawing	
DATE APPROVED: André P. Brackin, DEPARTMENT OF TRANSPORTATION	REVISION DATE: 7/9/09	FILE NAME: SD_3-1

EL PASO COUNTY DEPARTMENT OF TRANSPORTATION

NOTES

1. TYPE II MANHOLES SHALL BE USED WHEN APPROPRIATE AND TYPICALLY WHEN THE PIPE SIZES ARE 30" OR LESS INSIDE DIAMETER.

2. VIEW AND DETAILS ARE TYPICAL. DESIGN ENGINEER SHALL DETERMINE MANHOLE BASE CONFIGURATION AND DIMENSIONS FOR PARTICULAR PIPE SIZES AND ALIGNMENT.

3. EITHER LADDER OF STEPS SHALL BE INSTALLED WHEN MANHOLE DEPTH EXCEEDS 30"; STEPS IN BASE SHALL BE INSTALLED IN "TOE POCKETS" (SEE DETAIL THIS SHEET). LOWEST STEP SHALL BE A MAXIMUM OF 16" ABOVE THE FLOOR.

4. PIPES SHALL BE TRIMMED TO FINAL SHAPE AND SET BEFORE MANHOLE IS POURED.

5. BENCH SHALL BE SLOPED TOWARD CENTER OF MANHOLE BASE (4:1 MAX., ½" PER FOOT MIN.).

6. FLOOR OF MANHOLE SHALL BE TROWELLED TO A SMOOTH, HARD SURFACE AND SHALL SLOPE TOWARDS THE OUTLET (8:1, ½" PER FT. MIN.) . FLOOR SHALL BE SHAPED AND CHANNELED; SEE DETAILS THIS SHEET.

SCALE: NOT TO SCALE

DATE APPROVED: André P. Brackin, DEPARTMENT OF TRANSPORTATION	Storm Sewer Manhole Detail Type II Standard Drawing	
	REVISION DATE: 11/10/04	FILE NAME: SD_3-2

EL PASO COUNTY DEPARTMENT OF TRANSPORTATION

NOTE

TYPE III MANHOLES SHALL BE USED WHEN APPROPRIATE AND TYPICALLY WHEN THE FOLLOWING CONDITIONS ARE MET:

A. PIPE IS 48" OR LARGER INSIDE DIAMETER.
B. NOT CHANGE IN PIPE SIZE.
C. NO CHANGE IN PIPE MATERIAL
D. NO CHANGE IN HORIZONTAL ALIGNMENT
E. SLOPE IS FLAT AND CONTINUOUS

2. TYPE III MANHOLES SHALL BE FABRICATED BY THE MANUFACTURER/SUPPLIER AND DELIVERED TO THE SITE AS A SINGLE UNIT. FIELD FABRICATION SHALL NOT BE PERMITTED.

3. EITHER LADDER OR STEPS SHALL BE INSTALLED. LOWEST STEP SHALL BE A MAXIMUM OF 30" ABOVE THE INVERT OF THE PIPE.

SCALE: NOT TO SCALE

8/11/11	Storm Sewer Manhole Detail Type III Standard Drawing	
DATE APPROVED: André P. Brackin, DEPARTMENT OF TRANSPORTATION	REVISION DATE: 11/10/04	FILE NAME: SD_3-3

EL PASO COUNTY DEPARTMENT OF TRANSPORTATION

SCALE: NOT TO SCALE

9/16/10	Storm Sewer Manhole Details Standard Drawing	
DATE APPROVED: André P. Brackin, DEPARTMENT OF TRANSPORTATION	REVISION DATE: 9/16/10	FILE NAME: SD_3-5

EL PASO COUNTY DEPARTMENT OF TRANSPORTATION

NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD AND SUPPLEMENTAL SPECIFICATIONS APPLICABLE TO THE PROJECT.
2. PRECAST RISERS SHALL CONFORM TO ASTM C478.
3. STEPS SHALL BE INSTALLED WHEN MANHOLE DEPTH EXCEEDS 30". STEPS SHALL BE CAST IRON OR EXTRUDED ALUMINUM, 1000 LB CAPACITY, 12" WIDE WITH NON-SKID GROOVES AND DROP FRONT ON SAFETY NOSES, IN ACCORDANCE WITH APPROVED OSHA REQUIREMENTS.

SCALE: NOT TO SCALE

8/11/11	Storm Sewer Manhole Riser and Cover Detail Standard Drawing	
DATE APPROVED: André P. Brackin, DEPARTMENT OF TRANSPORTATION	REVISION DATE: 11/23/04	FILE NAME: SD_3-7

EL PASO COUNTY DEPARTMENT OF TRANSPORTATION

STEEL GRATE QUANTITIES

NO. PIECES	DESCRIPTION	LENGTH	LBS PER FT.	WEIGHT (LBS.)
4	S4 x 7.7 BEAM	41"	7.90	106
2	3½" x ¼" FLAT	26⅝"	2.98	13
2	3" x ¼" FLAT	26⅝"	2.55	12

TOTAL LBS. - 131

QUANTITIES FOR ONE INLET

H	CONCRETE (CU. YDS.)	STEEL (LBS.)	NO. STEPS REQ'D.
2'-6"	1.0	76	0
3'-0"	1.1	81	0
3'-6"	1.2	97	0
4'-0"	1.3	102	1
4'-6"	1.5	117	2
5'-0"	1.6	123	2
5'-6"	1.7	138	2
6'-0"	1.9	143	3
6'-6"	2.0	159	3
7'-0"	2.1	164	3
7'-6"	2.2	180	4
8'-0"	2.4	185	4
8'-6"	2.5	200	4
9'-0"	2.6	206	5
9'-6"	2.8	221	5
10'-0"	2.9	236	6
11'-6"	3.3	252	6

▼ PIPE INSIDE DIAMETER SHALL BE 30 IN. OR LESS. CONCRETE AND STEEL QUANTITIES ARE FOR ONE ENTIRE INLET BEFORE DEDUCTION FOR VOLUME OCCUPIED BY PIPE. WEIGHT OF STEEL INCLUDES A RING FOR THE MAXIMUM PIPE DIAMETER.

GENERAL NOTES

1. INLET TYPE C IS NOT HS-20 RATED AND SHALL NOT BE PLACED IN PAVED ROADWAYS. THIS INLET SHALL BE USED ONLY OUTSIDE PAVED ROADWAYS.
2. CONCRETE SHALL BE CLASS B. INLET MAY BE CAST-IN-PLACE OR PRECAST.
3. REINFORCING BARS SHALL BE GRADE 60, EPOXY COATED, AND DEFORMED #4, AND SHALL HAVE A MIN. 2 INCH CLEARANCE. CUT OR BEND AROUND PIPES AS REQUIRED.
4. CONCRETE SLOPE AND DITCH PAVING SHALL BE IN ACCORDANCE WITH SECTION 507. REINFORCEMENT FOR CONCRETE SLOPE PAVING SHALL BE 6 X 6 - W1.4 X W1.4 OR 6 X 6 - W2.1 X W2.1.
5. STRUCTURAL STEEL FOR GRATES AND GRATE INSTALLATION HARDWARE SHALL BE GALVANIZED, AND SHALL BE IN ACCORDANCE WITH SUBSECTION 712.06.
6. THE STANDARD INLET GRATES SHALL BE USED ON ALL TYPE C INLETS UNLESS CLOSE MESH INLET GRATES ARE SPECIFIED ON THE PLANS.
7. CLOSE MESH GRATES ARE RECOMMENDED WHERE FOOT TRAFFIC OR BICYCLE ROUTES ARE IN CLOSE PROXIMITY TO GRATE. THIS GRATE IS NOT ADA COMPLIANT OR BICYCLE FRIENDLY AND SHALL NOT BE PLACED DIRECTLY IN SIDEWALKS, CROSSWALKS OR BIKE PATHS.
8. STEPS SHALL BE PROVIDED WHEN INLET DIMENSION "H" IS EQUAL TO OR GREATER THAN 3 FEET - 6 INCHES AND SHALL CONFORM TO AASHTO M 199.
9. SEE STANDARD PLAN M-604-11, FOR REINFORCEMENT AROUND THE PIPE OPENING.
10. ALL INLETS SHALL HAVE A 4 INCH DIA. METAL MEDALLION WITH A "NO DUMPING DRAINS TO STREAM" MESSAGE ON IT. THE MEDALLION SHALL HAVE A FISH SYMBOL WITH A BLUE BACKGROUND. IT SHALL BE FIRMLY ATTACHED TO THE TOP OF THE INLET WITH A PERMANENT FASTENER.

BAR LIST FOR H = 2 FT.-6 IN. AND BENDING DIAGRAM

MARK	NO. REQ'D.	HEIGHT	LENGTH
401	2	2'-2½"	8'-0"
401	6	2'-7"	8'-8"
402	4	*U*	15'-4"

NO. 401 — 3'-6" — *U*

U INCREASE DIMENSION 6 IN. FOR EACH 6 IN. INCREASE OF "H" ABOVE 2 FT.-6 IN.

NO. 402 — 3'-7" — 6" MIN. — 12" MIN.

ADD ONE BAR FOR EACH FT. INCREASE OF "H" ABOVE 2 FT. - 6 IN.

402 BARS SHALL BE EQUALLY SPACED FROM EACH OTHER.

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Date:	Comments

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Project Development Branch JBK

INLET, TYPE C

STANDARD PLAN NO. M-604-10
Standard Sheet No. 1 of 1
Issued by the Project Development Branch: July 31, 2019
Project Sheet Number:

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR
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No.	REVISION	BY	DATE

H-SCALE	1"=50'
V-SCALE	N/A
DATE	08/18/21
DESIGNED BY	SAV
DRAWN BY	SAV
CHECKED BY	

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ENGINEER'S STATEMENT

STANDARD DETAILS SHOWN WERE REVIEWED ONLY AS TO THEIR APPLICATION ON THIS PROJECT

MIKE A. BRAMLETT, P.E.
COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING, LLC

DATE

CLOVERLEAF FILING 2

DETAIL SHEET

SHEET 26 OF 28

JOB NO. 25158.01

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★ FOR LENGTH (L) 10 FT. OR MORE, PROVIDE MAINTENANCE ACCESS AT BOTH ENDS WITH AN ADDITIONAL MANHOLE RING AND COVER. CUT REINFORCEMENT BAR ACCORDINGLY.

✦ STATION POINT AT MIDPOINT OF INLET ALONG FLOWLINE

* MEET SHAPE OF NORMAL BARRIER CURB AND GUTTER HERE.

GENERAL NOTES:

SEE SHEET 2.

* WHEN A TYPE R INLET IS USED WITH MOUNTABLE CURB AND GUTTER, 5 FT. TRANSITION SHALL BE CONSTRUCTED. TRANSITION SHALL BE PAID FOR AS CURB AND GUTTER.

TRANSITION CURB

▲ - FOR A 1'-0" PAN SLOPE 2" PER FT.

SECTION A-A REGULAR INLET

SECTION A-A INLET WITH DROP BOX ~ H>5 FT.

CURB FACE ASSEMBLY

✦ PLACE ENTIRE ASSEMBLY BEFORE POURING CONCRETE.

✦ A 2 IN. DIAMETER TEMPORARY HOLE FOR DRAINAGE SHALL BE PLACED AT SUBGRADE ELEVATION OR A MINIMUM THREE INCHES BELOW ROAD BASE. THE HOLE SHALL BE PLUGGED WITH CONCRETE BEFORE ACCEPTANCE OF THE INLET.

SECTION B-B END VIEW

NOTE: MANHOLE RING AND COVER, STATION POINT AND OUTFLOW PIPE SHALL BE LOCATED AT THE SAME END OF THE INLET.

SECTIONS C-C & D-D (DOTTED BARS ARE IN SECTION D-D)

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CURB INLET TYPE R

Issued by the Project Development Branch: July 31, 2019

STANDARD PLAN NO.
M-604-12
Standard Sheet No. 1 of 2
Project Sheet Number:

TYPICAL BAR LAYOUT FOR CONCRETE HEADWALLS

DIMENSIONS									QUANTITIES					
									CONCRETE			STEEL ■		
Bo IN.	Bc IN.	X FT.-IN.	A IN.	X1 FT.-IN.	A1 IN.	y FT.-IN.	B IN.	X2 IN.	SGL. CU. YD.	DBL. CU. YD.	SGL. LBS.	DBL. LBS.
54	65	8'-9	8½	15'-6	7	9'-2	17	20	2.12	3.55	209	364
60	72	9'-6	7	17'-0	10	9'-8	11	21	2.35	3.99	236	414
66	79	10'-3	11½	18'-6	7	10'-2	14	22	2.60	4.44	249	453
72	86	11'-0	10	20'-0	10	10'-8	17	23	2.85	4.91	270	476
78	93	11'-9	8½	21'-3	11	11'-2	11	24	3.11	5.29	306	527
84	100	12'-6	7	22'-6	7	11'-8	14	25	3.38	5.68	333	573
90	107	13'-3	11½	23'-9	8½	12'-2	17	26	3.66	6.08	335	593
96	114	14'-0	10	25'-0	10	12'-8	11	27	3.94	6.48	379	649
102	121	14'-9	8½	26'-3	11½	13'-2	14	28	4.24	6.89	400	664
108	128	15'-6	7	27'-6	7	13'-8	17	29	4.54	7.30	424	707

HEADWALL FOR RIGID ROUND PIPE

RIGID PIPE = Bc + 8"
FLEXIBLE PIPE = Bo + 8"
"D" = FLEXIBLE ARCH = SPAN + 8"
STRUCTURAL PLATE ARCH = RISE + 8"

FRONT VIEW

BAR BENDING

GENERAL NOTES

1. CONCRETE SHALL BE CLASS B.
2. HEADWALL SHALL BE PERPENDICULAR TO THE PIPE ℄ UNLESS OTHERWISE SHOWN ON THE PLANS. TABULATED DIMENSIONS AND QUANTITIES MUST BE ADJUSTED FOR SKEWED INSTALLATIONS.
3. FOR WINGWALL DETAILS, SEE STANDARD PLAN M-601-20.
4. VOLUME OCCUPIED BY PIPE HAS BEEN DEDUCTED FROM STEEL AND CONCRETE QUANTITIES.
5. EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED ¾ IN.
6. ALL REINFORCING BARS SHALL HAVE A 2 IN. MINIMUM CLEARANCE.

▲ WHEN TWO OR MORE PIPES ARE LAID SIDE BY SIDE, THEY SHALL BE PLACED SO THAT THE ADJACENT PIPES WILL BE ½ INSIDE DIAMETER APART, OR ½ INSIDE SPAN APART, OR 3 FT. APART (INCLUDING WALL THICKNESS), WHICHEVER IS LESS.

■ ADD 0.89 x (X OR X1) (LB.) WHEN APRON IS REQUIRED.

DIMENSIONS									QUANTITIES					
									CONCRETE			STEEL ■		
EQUIV. Bo IN.	SPAN IN.	RISE IN.	X FT.-IN.	A IN.	X1 FT.-IN.	A1 IN.	y FT.-IN.	B IN.	SGL. CU. YD.	DBL. CU. YD.	SGL. LBS.	DBL. LBS.
72	81	59	10'-9	8½	20'-6	7	9'-3	17½	2.72	5.10	250	467
78	87	63	11'-3	11½	21'-6	7	9'-7	10½	2.85	5.34	275	531
84	95	67	11'-9	8½	22'-10	9	9'-11	12½	3.08	5.79	290	547
90	103	71	12'-7	7½	24'-2	11	10'-3	15	3.30	6.21	321	591
96	112	75	13'-4	12	25'-8	8	10'-7	16½	3.52	6.65	314	606
102	117	79	13'-9	8½	26'-6	7	10'-11	9½	3.63	6.86	356	672
108	128	83	14'-8	8	28'-4	12	11'-3	11½	3.96	7.51	376	699

HEADWALL FOR FLEXIBLE PIPE ARCH

TOP VIEW

WINGWALL CONNECTION

DIMENSIONS									QUANTITIES					
									CONCRETE			STEEL ■		
Bo IN.	X FT.-IN.	A IN.	X1 FT.-IN.	A1 IN.	y FT.-IN.	B IN.	SGL. CU. YD.	DBL. CU. YD.	SGL. LBS.	DBL. LBS.
54	8'-6	7	15'-3	11½	8'-10	15	2.19	3.81	211	358
60	9'-0	10	16'-6	7	9'-4	18	2.38	4.25	217	396
66	9'-6	7	17'-9	8½	9'-10	12	2.58	4.70	250	454
72	10'-0	10	19'-0	10	10'-4	15	2.78	5.17	255	472
78	10'-6	7	20'-0	10	10'-10	18	2.98	5.56	278	499
84	11'-0	10	21'-0	10	11'-4	12	3.19	5.95	297	553
90	11'-6	7	22'-0	10	11'-10	15	3.40	6.36	317	517
96	12'-0	10	23'-0	10	12'-4	18	3.62	6.79	321	597
102	12'-6	7	24'-0	10	12'-10	12	3.84	7.21	364	663
108	13'-0	10	25'-0	10	13'-4	15	4.06	7.63	362	678

HEADWALL FOR FLEXIBLE ROUND PIPE

INLET OUTLET ENDS OF FLEXIBLE PIPE

INLET OUTLET ENDS OF RIGID PIPE

WHEN APRON IS REQUIRED

DIMENSIONS									QUANTITIES					
									CONCRETE			STEEL ■		
EQUIV. Bo IN.	SPAN FT.-IN.	RISE FT.-IN.	X FT.-IN.	A IN.	X1 FT.-IN.	A1 IN.	y FT.-IN.	B IN.	SGL. CU. YD.	DBL. CU. YD.	SGL. LBS.	DBL. LBS.
66	6'-1	4'-7	10'-1	10½	19'-2	11	8'-11	15½	2.52	4.70	232	424
75	7'-0	5'-1	11'-0	10	21'-0	10	9'-5	9½	2.80	5.25	282	509
84	7'-11	5'-7	11'-11	9½	22'-10	9	9'-11	12½	3.08	5.79	291	540
93	8'-10	6'-1	12'-10	9	24'-8	8	10'-5	15½	3.36	6.33	309	622
102	9'-9	6'-7	13'-9	8½	26'-6	7	10'-11	9½	3.63	6.86	379	673
111	10'-11	7'-1	14'-11	9½	28'-10	9	11'-5	12½	4.05	7.67	377	711
120	11'-10	7'-7	15'-10	9	30'-8	8	11'-11	15½	4.36	8.28	395	731
132	12'-10	8'-4	16'-10	9	32'-8	8	12'-8	11	4.75	9.03	441	839
141	14'-1	8'-9	18'-1	10½	35'-2	11	13'-1	13½	5.17	9.86	448	931
150	15'-4	9'-3	19'-4	12	37'-8	8	13'-7	16½	5.69	10.88	490	953
159	15'-10	9'-10	19'-10	9	38'-8	8	14'-2	11	5.89	11.25	534	1019

HEADWALL FOR STRUCTURAL PLATE ARCH

SKEW ANGLE A°	90	85	80	75	70	65	60	55	50	45	40	35	30
FACTOR (cosecA°)	1.000	1.004	1.015	1.035	1.064	1.103	1.155	1.221	1.305	1.414	1.556	1.743	2.000

SKEW FACTOR TABLE

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HEADWALL FOR PIPES

Issued by the Project Development Branch: July 31, 2019

STANDARD PLAN NO.
M-601-10
Standard Sheet No. 1 of 1
Project Sheet Number:

MARK	BAR # OR SIZE	O.C. SPACING	TYPE	ALL INLETS L = 5 FT. NO. REQ'D.	ALL INLETS L = 5 FT. LENGTH	INLETS: H ≤ 5 FT. L = 10 FT. NO. REQ'D.	INLETS: H ≤ 5 FT. L = 10 FT. LENGTH	INLETS: H ≤ 5 FT. L = 15 FT. NO. REQ'D.	INLETS: H ≤ 5 FT. L = 15 FT. LENGTH	INLETS: H > 5 FT. L = 10 FT. NO. REQ'D.	INLETS: H > 5 FT. L = 10 FT. LENGTH	INLETS: H > 5 FT. L = 15 FT. NO. REQ'D.	INLETS: H > 5 FT. L = 15 FT. LENGTH
401	4	11"	II	15	*	21	*	26	*	11	*	11	*
402	4	11"	II	7	*	13	*	18	*	7	*	7	*
403	4	9"	II	*	4'-0"	*	4'-0"	*	4'-0"	*	4'-0"	*	4'-0"
405	4	6"	VI	11	6'-10"	21	6'-10"	31	6'-10"	11	6'-10"	11	6'-10"
406	4	6"	VIII	7	8'-10"	7	13'-10"	7	18'-10"	7	8'-10"	7	8'-10"
407	4	9"	II	*	5'-10"	*	10'-10"	*	15'-10"	*	5'-10"	*	5'-10"
408	4	12"	II	3	6'-10"	3	11'-10"	3	16'-0"	3	11'-10"	3	16'-0"
409	4	8"	II	6	5'-10"	6	10'-10"	6	15'-10"	6	10'-10"	6	15'-10"
410	4	11"	VII							3		3	*
411	4	11"	II							3	5'-2"	3	10-2"
412	4	11"	II							3	2'-9"	3	2'-9"
413	4	9"	II							7	10'-10"	7	15'-10"
501	5	5⅛"	IV	11	3'-4"	22	3'-4"	33	3'-4"	22	3'-4"	33	3'-4"
502	5	5⅛"	III							11	11'-5"	17	11'-5"
503	5	5⅛"	II	5	3'-6"	16	3'-6"	27	3'-6"	6	3'-6"	6	3'-6"
504	5	5⅛"	IX									5	8'-4"
601	6	2⅞"	V	2	8'-10"	2	8'-10"	2	8'-10"	2	8'-10"	4	8'-10"
■ B8.5				1	5'-10"	1	10'-10"	1	15'-10"	1	10'-10"	1	15'-10"
				2 BARS, 1 RODS	—	4 BARS, 3 RODS	—	8 BARS, 5 RODS	—	4 BARS, 3 RODS	—	8 BARS, 5 RODS	—

* VARIABLE REFER TO TABLE TWO.

■ INCLUDE #4, 18 IN. BARS (SEE CHANNEL LAYOUT).

REGULAR INLETS — DROP BOX INLETS

TABLE ONE ~ BAR LIST FOR CURB INLETS, TYPE "R"

"H" LENGTH 401	402	410	NO. REQ'D. REGULAR 403	407	NO. REQ'D. DROP BOX 403	407	L = 5 FT. CONC. CU. YDS.	L = 5 FT. STEEL LBS.	L = 10 FT. CONC. CU. YDS.	L = 10 FT. STEEL LBS.	L = 15 FT. CONC. CU. YDS.	L = 15 FT. STEEL LBS.
3'-0"	2'-8"	1'-8"	10	7			3.2	285	5.3	497	7.4	706
3'-6"	3'-2"	2'-2"	10	7			3.4	305	5.7	528	7.9	747
4'-0"	3'-8"	2'-8"	12	9			3.7	326	6.0	559	8.4	786
4'-6"	4'-2"	3'-2"	12	9			3.9	334	6.4	571	8.8	803
5'-0"	4'-8"	3'-8"	14	11			4.1	354	6.7	602	9.3	844
5'-6"	5'-2"	4'-2"	3'-5"	16	13	15	6	4.4	375	6.0	607	7.4	850
6'-0"	5'-8"	4'-8"	3'-11"	16	13	16	6	4.6	382	6.2	616	7.6	860
6'-6"	6'-2"	5'-2"	4'-5"	18	15	18	8	4.8	402	6.4	637	7.8	880
7'-0"	6'-8"	5'-8"	4'-11"	20	17	19	10	5.0	423	6.6	654	8.0	897
7'-6"	7'-2"	6'-2"	5'-5"	20	17	20	10	5.3	430	6.9	664	8.3	907
8'-0"	7'-8"	6'-8"	5'-11"	22	19	22	12	5.5	451	7.1	684	8.5	927
8'-6"	8'-2"	7'-2"	6'-5"	24	21	23	14	5.7	471	7.3	702	8.7	944
9'-0"	8'-8"	7'-8"	6'-11"	24	21	24	14	6.0	479	7.6	711	9.0	954
9'-6"	9'-2"	8'-2"	7'-5"	26	23	26	16	6.2	499	7.8	732	9.2	974
10'-0"	9'-8"	8'-8"	7'-11"	28	25	27	18	6.4	520	8.0	749	9.4	992
10'-6"	10'-2"	9'-2"	8'-5"	28	25	28	18	6.7	527	8.3	759	9.7	1001
11'-0"	10'-8"	9'-8"	8'-11"	30	27	30	20	6.9	547	8.5	779	9.9	1022

NOTES: FOR L = 5 FT., L = 10 FT., AND L = 15 FT.
REGULAR INLETS: TOTAL QUANTITIES NEEDED ARE OUTSIDE THE HEAVY BLACK LINE.
DROP BOX INLETS: TOTAL QUANTITIES NEEDED ARE INSIDE THE HEAVY BLACK LINE.
STEEL WEIGHTS DO NOT INCLUDE STRUCTURAL STEEL CHANNEL.

TABLE TWO ~ BARS AND QUANTITIES VARIABLE WITH "H"

ELEVATION VIEW MANHOLE COVER (TYP.)

WEIGHTS: COVER = 125 LBS.
+ RING = 135 LBS.
TOTAL = 260 LBS.

MANHOLE RING (TYP.)

GENERAL NOTES

1. CONCRETE SHALL BE CLASS B. INLET MAY BE CAST-IN-PLACE OR PRECAST.
2. CONCRETE WALLS SHALL BE FORMED ON BOTH SIDES AND SHALL BE 8 INCHES THICK.
3. INLET STEPS SHALL BE IN CONFORMANCE WITH AASHTO M 199.
4. CURB FACE ASSEMBLY SHALL BE GALVANIZED AFTER WELDING.
5. EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED ¾ OF A INCH. CURB AND GUTTER CORNERS SHALL BE FINISHED TO MATCH THE EXISTING CURB AND GUTTER BEYOND THE TRANSITION GUTTER.
6. REINFORCING BARS SHALL BE DEFORMED AND SHALL HAVE A 2 INCH MINIMUM CLEARANCE. ALL REINFORCING BARS SHALL BE GRADE 60 AND EPOXY COATED.
7. DIMENSIONS AND WEIGHTS OF TYPICAL MANHOLE RING AND COVER ARE NOMINAL.
8. MATERIAL FOR MANHOLE RINGS AND COVERS SHALL BE GRAY OR DUCTILE CAST IRON IN ACCORDANCE WITH SUBSECTION 712.06.
9. SINCE PIPE ENTRIES INTO THE INLET ARE VARIABLE, THE DIMENSIONS SHOWN ARE TYPICAL. ACTUAL DIMENSIONS AND QUANTITIES FOR CONCRETE AND REINFORCEMENT SHALL BE AS REQUIRED IN THE WORK. QUANTITIES INCLUDE VOLUMES OCCUPIED BY PIPES.
10. STRUCTURAL STEEL SHALL BE GALVANIZED AND SHALL BE IN ACCORDANCE WITH SUBSECTION 712.06.
11. ALL MANHOLE COVERS SHALL BE CAST WITH A "NO DUMPING DRAINS TO STREAM" MESSAGE AND A FISH SYMBOL. THE SURFACE OF THE MANHOLE COVER SHALL HAVE A NON-SLIP PATTERN.

CHANNEL LAYOUT DETAILS

SEE CURB FACE ASSEMBLY ON SHEET 1.

SECTION AT HOLE (TYP.)

BAR BENDING DIAGRAMS ~ (DIMENSIONS ARE OUT-TO-OUT OF BAR)

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Project Development Branch JBK

CURB INLET TYPE R

Issued by the Project Development Branch: July 31, 2019

STANDARD PLAN NO.
M-604-12
Standard Sheet No. 2 of 2
Project Sheet Number:

UNTIL SUCH TIME AS THESE PLANS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR
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No.	REVISION	BY	DATE

H-SCALE	N/A
V-SCALE	N/A
DATE	08/18/21
DESIGNED BY	SAV
DRAWN BY	SAV
CHECKED BY	

CLOVERLEAF FILING 2

DETAIL SHEET

Know what's below. Call before you dig.

ENGINEER'S STATEMENT

STANDARD DETAILS SHOWN WERE REVIEWED ONLY FOR THE APPLICATION ON THIS PROJECT

MIKE A. BRAMLETT, P.E.
COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING, LLC

COLORADO MIKE A. BRAMLETT 32314 PROFESSIONAL ENGINEER

Know what's below. Call before you dig.

SHEET 27 OF 28

JOB NO. 25158.01

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BOX ELEVATION

m = h_1 B_1 OR RISE + (1'-4")
UNLESS OTHERWISE SHOWN ON PLANS

h =	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	■ 12'	■ 13'	■ 14'	
a =	1'-0"	1'-2"	1'-4"	1'-6"	1'-8"	1'-10"	2'-0"	2'-2"	2'-4"	2'-6"	2'-8"	2'-10"	3'-0"	
b =	1'-8"	2'-0"	2'-4"	2'-8"	3'-0"	3'-4"	3'-8"	4'-0"	4'-4"	4'-8"	5'-0"	5'-4"	5'-8"	
w =	2'-8"	3'-2"	3'-8"	4'-2"	4'-8"	5'-2"	5'-8"	6'-2"	6'-8"	7'-2"	7'-8"	8'-2"	8'-8"	
d-BARS	#4 @ 9"	#4 @ 9"	#4 @ 9"	#4 @ 9"	#4 @ 9"	#4 @ 9"	#5 @ 11"	#5 @ 10"	#5 @ 10"	#5 @ 8"	#6 @ 8"	#7 @ 9"	#7 @ 7"	
✱ CONC. CY/LF	0.161	0.210	0.259	0.309	0.358	0.407	0.457	0.506	0.556	0.605	0.654	0.704	0.753	

✱ DOES NOT INCLUDE TOE WALL QUANTITIES
SEE SHEET 2 OF 2 FOR REINFORCING STEEL QUANTITY

■ REQUIRED DRAINAGE BEHIND WINGWALLS
SEE NOTE 6

TYPICAL SECTION

TYPICAL CULVERT LAYOUT

DETAIL "A"

PLAN

ELEVATION
DESIGN EXAMPLE

WITH TOE WALL

APRON
TOE WALL

QUANTITIES FOR TOE WALL ONLY
CONCRETE 0.049 CU. YD./LIN. FT.
REINFORCEMENT 5.1 LB./LIN. FT.

WITH CONCRETE APRON

REINFORCEMENT 1.34 LB./SQ. FT.

DESIGN DATA:

AASHTO LRFD EIGHTH EDITION, 2017
DESIGN METHOD: LOAD AND RESISTANCE FACTOR DESIGN, YIELD LINE METHOD

REINFORCED CONCRETE:
CONCRETE CLASS D (BOX CULVERT): f'_c = 4,500 PSI
REINFORCING STEEL: f_y = 60,000 PSI

LOADING:
AT-REST EARTH (FLUID) PRESSURE FOR CONCRETE STEM DESIGN = 55 PCF FOR 2 (MIN.) : 1 SLOPED BACKFILL
ACTIVE EARTH (FLUID) PRESSURE FOR CONCRETE FOOTING DESIGN = 40 PCF FOR 2 (MIN.) : 1 SLOPED BACKFILL
LIVE LOAD SURCHARGE = 2'
MINIMUM RESISTANCE FOR SOIL BEARING = 5.5 KSF
SOIL BEARING RESISTANCE FACTOR = 0.45

GENERAL NOTES:

1. ALL EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED ¾ IN.
2. WINGWALL FOOTING AND FLOOR OF BOX CULVERT SHALL BE PLACED MONOLITHICALLY.
3. DIMENSIONS "m", "a", "b", "L", "w" AND ANGLE "θ" FOR WINGWALL SHALL BE AS SHOWN ON THE PLANS.
4. MINIMUM CLASS B LAP SPLICE LENGTH FOR BLACK REINFORCING BARS:

BAR SIZE:	#4	#5	#6	#7
SPLICE LENGTH:	1'- 6"	1'-11"	2'-3"	2'-7"

5. DESIGN DOES NOT CONSIDER ANY SCOUR EFFECTS.
6. WINGWALL DRAIN SHALL BE REQUIRED IF "h" ≥ 12.0 FT., SEE SHEET 2 OF 2 FOR DETAILS.

Computer File Information	
Creation Date: 07/31/19	
Designer Initials: JBK	R-X
Last Modification Date: 07/31/19	R-X
Detailer Initials: LTA	R-X
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English	R-X

Sheet Revisions	
Date:	Comments

Colorado Department of Transportation
2829 West Howard Place
CDOT HQ, 3rd Floor
Denver, CO 80204
Phone: 303-757-9021 FAX: 303-757-9868
Project Development Branch JBK

WINGWALLS FOR PIPE OR BOX CULVERTS

Issued by the Project Development Branch: July 31, 2019

STANDARD PLAN NO.
M-601-20
Standard Sheet No. 1 of 2
Project Sheet Number:

c-BARS AND REINFORCING STEEL QUANTITY (EXCLUDE TOE WALL)

✱ REINFORCING STEEL QUANTITY INCLUDES STEM AND FOOTING QUANTITIES, BUT DOES NOT INCLUDE TOE WALL QUANTITIES.

L (MULTIPLE OF m)		≤ (1.0 x m)		≤ (1.25 x m)		≤ (1.5 x m)		≤ (1.75 x m)		≤ (2.0 x m)		≤ (2.25 x m)		≤ (2.5 x m)		≤ (2.75 x m)		≤ (3.0 x m)		≤ (3.25 x m)		≤ (3.5 x m)	
m (FT)	k (FT)	c-BARS	✱ REINF. LB./L.F.	c-BARS	✱ REINF. LB./L.F.	c-BARS	✱ REINF. LB./L.F.	c-BARS	✱ REINF. LB./L.F.	c-BARS	✱ REINF. LB./L.F.	c-BARS	✱ REINF. LB./L.F.	c-BARS	✱ REINF. LB./L.F.	c-BARS	✱ REINF. LB./L.F.	c-BARS	✱ REINF. LB./L.F.	c-BARS	✱ REINF. LB./L.F.	c-BARS	✱ REINF. LB./L.F.
14	4	#4 @ 10"	53.60	#5 @ 10"	57.95	#5 @ 10"	57.10	#5 @ 8"	60.22	#5 @ 7"	62.43	#5 @ 7"	62.09	#5 @ 6"	65.38	#5 @ 6"	65.15	#6 @ 8"	67.10	#6 @ 8"	66.94	#6 @ 7"	70.66
	5	#4 @ 10"	55.86	#5 @ 10"	60.46	#5 @ 10"	59.60	#5 @ 8"	62.89	#5 @ 7"	65.23	#5 @ 7"	64.88	#5 @ 6"	68.34	#5 @ 6"	68.11	#6 @ 8"	70.17	#6 @ 8"	70.00	#6 @ 7"	73.90
	6	#5 @ 10"	64.43	#6 @ 10"	70.60	#6 @ 10"	69.69	#6 @ 8"	74.93	#6 @ 8"	74.45	#6 @ 7"	78.30	#6 @ 6"	83.64	#6 @ 6"	83.40	#6 @ 6"	83.22	#6 @ 6"	83.05	#7 @ 7"	89.64
	7	#5 @ 10"	67.29	#6 @ 10"	73.76	#6 @ 10"	72.83	#6 @ 8"	78.32	#6 @ 8"	77.84	#6 @ 7"	81.87	#6 @ 6"	87.45	#6 @ 6"	87.21	#6 @ 6"	87.02	#6 @ 6"	86.86	#7 @ 7"	93.73
	8	#5 @ 8"	74.71	#6 @ 8"	83.46	#6 @ 7"	87.09	#6 @ 6"	92.54	#7 @ 7"	99.47	#7 @ 7"	99.08	#7 @ 6"	107.11	#7 @ 6"	106.86	#7 @ 6"	106.66	#7 @ 6"	106.49	#7 @ 6"	106.35
	9	#5 @ 8"	78.10	#6 @ 8"	87.23	#6 @ 7"	91.03	#6 @ 6"	96.72	#7 @ 7"	103.93	#7 @ 7"	103.54	#7 @ 6"	111.90	#7 @ 6"	111.65	#7 @ 6"	111.45	#7 @ 6"	111.28	#7 @ 6"	111.13
13	4	#4 @ 10"	50.51	#4 @ 10"	49.25	#5 @ 10"	53.71	#5 @ 10"	53.09	#5 @ 10"	52.36	#5 @ 9"	53.85	#5 @ 8"	55.54	#5 @ 7"	57.85	#5 @ 7"	57.67	#5 @ 7"	57.51	#6 @ 9"	59.93
	5	#4 @ 10"	52.66	#4 @ 10"	51.37	#5 @ 10"	56.09	#5 @ 10"	55.46	#5 @ 10"	54.99	#5 @ 9"	56.29	#5 @ 8"	58.08	#5 @ 7"	60.51	#5 @ 7"	60.33	#5 @ 7"	60.17	#6 @ 9"	62.72
	6	#4 @ 10"	54.92	#5 @ 10"	59.48	#5 @ 9"	60.31	#6 @ 9"	67.56	#6 @ 9"	67.08	#6 @ 9"	66.70	#6 @ 8"	69.53	#6 @ 8"	69.28	#6 @ 7"	73.12	#6 @ 7"	72.95	#6 @ 7"	72.81
	7	#4 @ 10"	57.36	#5 @ 10"	62.16	#5 @ 9"	63.05	#6 @ 9"	70.66	#6 @ 9"	70.16	#6 @ 9"	69.78	#6 @ 8"	72.75	#6 @ 8"	72.50	#6 @ 7"	76.52	#6 @ 7"	76.35	#6 @ 7"	76.20
	8	#5 @ 10"	66.39	#6 @ 10"	72.82	#6 @ 8"	77.97	#6 @ 7"	81.68	#6 @ 7"	81.19	#6 @ 6"	86.67	#6 @ 6"	86.37	#7 @ 7"	93.18	#7 @ 7"	92.97	#7 @ 7"	92.80	#7 @ 7"	92.64
	9	#5 @ 10"	69.37	#6 @ 10"	76.10	#6 @ 8"	81.49	#6 @ 7"	85.37	#6 @ 7"	84.87	#6 @ 6"	90.59	#6 @ 6"	90.29	#7 @ 7"	97.39	#7 @ 7"	97.18	#7 @ 7"	97.00	#7 @ 7"	96.85
12	2	#4 @ 10"	43.91	#4 @ 10"	42.65	#4 @ 10"	41.82	#4 @ 10"	41.22	#4 @ 10"	40.78	#4 @ 9"	41.29	#5 @ 10"	44.61	#5 @ 10"	44.37	#5 @ 10"	44.18	#5 @ 10"	44.01	#5 @ 10"	43.87
	3	#4 @ 10"	45.82	#4 @ 10"	44.55	#4 @ 10"	43.71	#4 @ 10"	43.11	#4 @ 10"	42.66	#4 @ 9"	43.22	#5 @ 10"	46.75	#5 @ 10"	46.51	#5 @ 10"	46.32	#5 @ 10"	46.15	#5 @ 10"	46.01
	4	#4 @ 10"	47.80	#4 @ 10"	46.51	#4 @ 10"	45.65	#5 @ 10"	50.06	#5 @ 10"	49.59	#5 @ 10"	49.23	#5 @ 10"	48.94	#5 @ 10"	48.69	#5 @ 9"	50.00	#5 @ 8"	51.72	#5 @ 8"	51.57
	5	#4 @ 10"	49.84	#4 @ 10"	48.53	#4 @ 10"	47.66	#5 @ 10"	52.33	#5 @ 10"	51.85	#5 @ 10"	51.48	#5 @ 10"	51.19	#5 @ 10"	50.94	#5 @ 9"	52.33	#5 @ 8"	54.14	#5 @ 8"	54.00
	6	#4 @ 10"	51.99	#4 @ 10"	50.65	#5 @ 10"	55.34	#5 @ 8"	58.41	#5 @ 8"	57.93	#6 @ 10"	60.60	#6 @ 10"	60.29	#6 @ 9"	62.42	#6 @ 9"	62.22	#6 @ 9"	62.04	#6 @ 8"	64.89
	7	#4 @ 10"	54.30	#5 @ 10"	58.80	#5 @ 10"	57.87	#5 @ 8"	61.10	#5 @ 8"	60.61	#6 @ 10"	63.43	#6 @ 10"	63.11	#6 @ 9"	65.35	#6 @ 9"	65.15	#6 @ 9"	64.97	#6 @ 8"	67.96
	8	#5 @ 10"	62.91	#5 @ 10"	61.45	#5 @ 7"	67.46	#5 @ 6"	70.68	#5 @ 6"	70.20	#6 @ 7"	76.44	#6 @ 7"	76.13	#6 @ 7"	75.87	#6 @ 6"	81.30	#6 @ 6"	81.12	#6 @ 6"	80.98
	9	#5 @ 10"	65.64	#5 @ 10"	64.15	#5 @ 7"	70.44	#5 @ 6"	73.82	#5 @ 6"	73.33	#6 @ 7"	79.86	#6 @ 7"	79.54	#6 @ 7"	79.28	#6 @ 6"	84.95	#6 @ 6"	84.77	#6 @ 6"	84.62
11	2	#4 @ 10"	41.70	#4 @ 10"	40.42	#4 @ 10"	39.57	#4 @ 10"	38.96	#4 @ 10"	38.50	#4 @ 10"	38.15	#4 @ 10"	37.87	#4 @ 10"	37.63	#4 @ 9"	38.25	#5 @ 10"	41.46	#5 @ 10"	41.31
	3	#4 @ 10"	43.57	#4 @ 10"	42.27	#4 @ 10"	41.40	#4 @ 10"	40.79	#4 @ 10"	40.33	#4 @ 10"	39.97	#4 @ 10"	39.69	#4 @ 10"	39.45	#4 @ 9"	40.12	#5 @ 10"	43.54	#5 @ 10"	43.39
	4	#4 @ 10"	45.48	#4 @ 10"	44.16	#4 @ 10"	43.28	#4 @ 10"	42.66	#4 @ 9"	43.09	#5 @ 10"	46.57	#5 @ 10"	46.27	#5 @ 10"	46.02	#5 @ 10"	45.82	#5 @ 10"	45.65	#5 @ 10"	45.50
	5	#4 @ 10"	47.46	#4 @ 10"	46.10	#4 @ 10"	45.21	#4 @ 10"	44.58	#4 @ 9"	45.06	#5 @ 10"	48.74	#5 @ 10"	48.44	#5 @ 10"	48.19	#5 @ 10"	47.99	#5 @ 10"	47.81	#5 @ 10"	47.67
	6	#4 @ 10"	49.52	#4 @ 10"	48.14	#4 @ 9"	48.23	#5 @ 10"	51.88	#5 @ 10"	51.38	#5 @ 9"	52.57	#5 @ 9"	52.27	#5 @ 8"	53.99	#5 @ 8"	53.79	#5 @ 7"	56.16	#5 @ 7"	56.01
	7	#4 @ 10"	51.73	#4 @ 10"	50.31	#4 @ 9"	50.43	#5 @ 10"	54.29	#5 @ 10"	53.78	#5 @ 9"	55.04	#5 @ 9"	54.73	#5 @ 8"	56.55	#5 @ 8"	56.35	#5 @ 7"	58.84	#5 @ 7"	58.70
	8	#4 @ 10"	54.00	#5 @ 10"	58.44	#5 @ 10"	57.45	#5 @ 8"	60.64	#5 @ 7"	62.92	#5 @ 6"	66.25	#5 @ 6"	65.94	#5 @ 6"	65.69	#6 @ 8"	67.76	#6 @ 8"	67.57	#6 @ 7"	71.45
	9	#4 @ 10"	56.20	#5 @ 10"	60.87	#5 @ 10"	59.85	#5 @ 8"	63.21	#5 @ 7"	65.60	#5 @ 6"	69.09	#5 @ 6"	68.78	#5 @ 6"	68.52	#6 @ 8"	70.69	#6 @ 8"	70.51	#6 @ 7"	74.57
10	2	#4 @ 10"	39.84	#4 @ 10"	38.53	#4 @ 10"	37.65	#4 @ 10"	37.03	#4 @ 10"	36.57	#4 @ 10"	36.20	#4 @ 10"	35.91	#4 @ 10"	35.67	#4 @ 10"	35.48	#4 @ 9"	36.07	#4 @ 9"	35.93
	3	#4 @ 10"	41.68	#4 @ 10"	40.35	#4 @ 10"	39.47	#4 @ 10"	38.84	#4 @ 10"	38.36	#4 @ 10"	38.00	#4 @ 10"	37.71	#4 @ 10"	37.46	#4 @ 10"	37.27	#4 @ 9"	37.91	#4 @ 9"	37.76
	4	#4 @ 10"	43.58	#4 @ 10"	42.22	#4 @ 10"	41.31	#4 @ 10"	40.67	#4 @ 10"	40.19	#4 @ 10"	39.82	#4 @ 10"	39.53	#4 @ 10"	39.28	#4 @ 10"	39.08	#4 @ 9"	39.77	#4 @ 9"	39.63
	5	#4 @ 10"	45.53	#4 @ 10"	44.14	#4 @ 10"	43.21	#4 @ 10"	42.56	#4 @ 10"	42.07	#5 @ 10"	46.44	#5 @ 10"	46.13	#5 @ 10"	45.87	#5 @ 10"	45.67	#5 @ 10"	45.49	#5 @ 10"	45.34
	6	#4 @ 10"	47.58	#4 @ 10"	46.14	#4 @ 10"	45.20	#4 @ 10"	44.53	#4 @ 10"	44.03	#5 @ 10"	48.67	#5 @ 10"	48.35	#5 @ 10"	48.08	#5 @ 10"	47.88	#5 @ 10"	47.69	#5 @ 10"	47.54
	7	#4 @ 10"	49.79	#4 @ 10"	48.31	#4 @ 10"	47.34	#5 @ 10"	51.97	#5 @ 10"	51.45	#5 @ 10"	51.04	#5 @ 9"	52.29	#5 @ 9"	52.03	#5 @ 8"	53.79	#5 @ 8"	53.61	#5 @ 7"	56.00
	8	#4 @ 10"	52.06	#4 @ 10"	50.54	#4 @ 10"	49.54	#5 @ 10"	54.43	#5 @ 10"	53.89	#5 @ 10"	53.47	#5 @ 9"	54.80	#5 @ 9"	54.53	#5 @ 8"	56.39	#5 @ 8"	56.20	#5 @ 7"	58.72
9	2	#4 @ 10"	38.01	#4 @ 10"	36.75	#4 @ 10"	35.85	#4 @ 10"	35.21	#4 @ 10"	34.73	#4 @ 10"	34.36	#4 @ 10"	34.06	#4 @ 10"	33.81	#4 @ 10"	33.61	#4 @ 10"	33.44	#4 @ 10"	33.30
	3	#4 @ 10"	39.93	#4 @ 10"	38.56	#4 @ 10"	37.64	#4 @ 10"	36.99	#4 @ 10"	36.51	#4 @ 10"	36.13	#4 @ 10"	35.83	#4 @ 10"	35.58	#4 @ 10"	35.38	#4 @ 10"	35.21	#4 @ 10"	35.06
	4	#4 @ 10"	41.81	#4 @ 10"	40.40	#4 @ 10"	39.47	#4 @ 10"	38.81	#4 @ 10"	38.31	#4 @ 10"	37.93	#4 @ 10"	37.63	#4 @ 10"	37.37	#4 @ 10"	37.17	#4 @ 10"	36.99	#4 @ 10"	36.84
	5	#4 @ 10"	43.75	#4 @ 10"	42.30	#4 @ 10"	41.35	#4 @ 10"	40.67	#4 @ 10"	40.17	#4 @ 10"	39.78	#4 @ 10"	39.47	#4 @ 10"	39.20	#4 @ 9"	39.86	#5 @ 10"	43.28	#5 @ 10"	43.12
	6	#4 @ 10"	45.79	#4 @ 10"	44.30	#4 @ 10"	43.31	#4 @ 10"	42.62	#4 @ 10"	42.10	#4 @ 10"	41.71	#4 @ 10"	41.39	#4 @ 10"	41.12	#4 @ 9"	41.82	#5 @ 10"	45.46	#5 @ 10"	45.30
	7	#4 @ 10"	48.04	#4 @ 10"	46.50	#4 @ 10"	45.49	#4 @ 10"	44.77	#5 @ 10"	49.29	#5 @ 10"	48.86	#5 @ 10"	48.53	#5 @ 10"	48.24	#5 @ 10"	48.03	#5 @ 10"	47.84	#5 @ 10"	47.67
	8	#4 @ 10"	50.43	#4 @ 10"	48.84	#4 @ 10"	47.80	#4 @ 10"	47.06	#5 @ 10"	51.83	#5 @ 10"	51.40	#5 @ 10"	51.05	#5 @ 10"	50.77	#5 @ 10"	50.54	#5 @ 10"	50.35	#5 @ 10"	50.18
8	2	#4 @ 10"	36.41	#4 @ 10"	35.01	#4 @ 10"	34.08	#4 @ 10"	33.42	#4 @ 10"	32.92	#4 @ 10"	32.54	#4 @ 10"	32.23	#4 @ 10"	31.97	#4 @ 10"	31.77	#4 @ 10"	31.59	#4 @ 10"	31.44
	3	#4 @ 10"	38.23	#4 @ 10"	36.80	#4 @ 10"	35.85	#4 @ 10"	35.18	#4 @ 10"	34.67	#4 @ 10"	34.28	#4 @ 10"	33.97	#4 @ 10"	33.70	#4 @ 10"	33.50	#4 @ 10"	33.32	#4 @ 10"	33.17
	4	#4 @ 10"	40.09	#4 @ 10"	38.61	#4 @ 10"	37.64	#4 @ 10"	36.95	#4 @ 10"	36.44	#4 @ 10"	36.04	#4 @ 10"	35.72	#4 @ 10"	33.45	#4 @ 10"	35.25	#4 @ 10"	35.07	#4 @ 10"	34.91
	5	#4 @ 10"	41.99	#4 @ 10"	40.47	#4 @ 10"	39.47	#4 @ 10"	38.76	#4 @ 10"	38.24	#4 @ 10"	37.83	#4 @ 10"	37.50	#4 @ 10"	37.23	#4 @ 10"	37.02	#4 @ 10"	36.84	#4 @ 10"	36.68
	6	#4 @ 10"	43.97	#4 @ 10"	42.40	#4 @ 10"	41.36	#4 @ 10"	40.64	#4 @ 10"	40.11	#4 @ 10"	39.68	#4 @ 10"	39.35	#4 @ 10"	39.07	#4 @ 9"	43.33	#5 @ 10"	43.13	#5 @ 10"	42.96
	7	#4 @ 10"	46.19	#4 @ 10"	44.56	#4 @ 10"	43.49	#5 @ 10"	42.74	#4 @ 10"	42.18	#4 @ 10"	41.75	#4 @ 10"	41.41	#4 @ 10"	41.13	#4 @ 9"	45.65	#5 @ 10"	45.45	#5 @ 10"	45.28
7	2	#4 @ 10"	34.90	#4 @ 10"	33.44	#4 @ 10"	32.47	#4 @ 10"	31.78	#4 @ 10"	31.27	#4 @ 10"	30.86	#4 @ 10"	30.54	#4 @ 10"	30.27	#4 @ 10"	30.06	#4 @ 10"	29.88	#4 @ 10"	29.72
	3	#4 @ 10"	36.73	#4 @ 10"	35.23	#4 @ 10"	34.23	#4 @ 10"	33.53	#4 @ 10"	33.00	#4 @ 10"	32.59	#4 @ 10"	32.26	#4 @ 10"	31.99	#4 @ 10"	31.78	#4 @ 10"	31.59	#4 @ 10"	31.43
	4	#4 @ 10"	38.59	#4 @ 10"	37.04	#4 @ 10"	36.01	#4 @ 10"	35.29	#4 @ 10"	34.75	#4 @ 10"	34.33	#4 @ 10"	33.99	#4 @ 10"	33.71	#4 @ 10"	33.50	#4 @ 10"	33.31	#4 @ 10"	33.14
	5	#4 @ 10"	40.48	#4 @ 10"	38.86	#4 @ 10"	37.80	#4 @ 10"	37.06	#4 @ 10"	36.50	#4 @ 10"	36.07	#4 @ 10"	35.73	#4 @ 10"	35.44	#4 @ 10"	35.22	#4 @ 10"	35.03	#4 @ 10"	34.86
	6	#4 @ 10"	42.39	#4 @ 10"	40.71	#4 @ 10"	39.61	#4 @ 10"	38.84	#4 @ 10"	38.26	#4 @ 10"	37.82	#4 @ 10"	37.47	#4 @ 10"	37.17	#4 @ 10"	36.95	#4 @ 10"	36.75	#4 @ 10"	36.58

EXAMPLE:

SELECT THE c-BARS SIZE, SPACING AND STEEL QUANTITY FOR A 25.0 FEET LONG WINGWALL WITH m = 11.8 FT. AND k = 6.3 FT.

SOLUTION:

1. DETERMINE WINGWALL LENGTH IN MULTIPLE OF mc
   L / m = 25.0 / 11.8 = 2.12
   L = (2.12 x m), USE L ≤ (2.25 x m)
2. ROUND TO REAREST WHOLE NUMBER FOR m AND k:
   m = 11.8 FT., USE m = 12.0 FT.
   k = 6.3 FT., USE k = 6.0 FT.
3. DETERMINE c-BARS BY USING THE TABLE:
   L ≤ (2.25 x m)
   m = 12
   k = 6
   c-BARS #6 @ 10"
   REINF. STEEL = 60.60 LB / LF
4. DETERMINE REINFORCING STEEL QUANTITY OF WHOLE WINGWALL:
   REINFORCING STEEL QUANTITY = 25.0 x 60.60 = 1,515 LB.

LIMITS OF CONCRETE SEALER AND WINGWALL DRAIN DETAILS

NOTES: 1. THE GEOCOMPOSITE SHALL BE SECURED TO THE WALL TO PREVENT MOVEMENT DURING BACKFILLING.

2. COST OF GEOCOMPOSITE DRAIN AND CONCRETE SEALER SHALL BE INCLUDED IN THE WORK.

Computer File Information	
Creation Date: 07/31/19	
Designer Initials: JBK	R-X
Last Modification Date: 07/31/19	R-X
Detailer Initials: LTA	R-X
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English	R-X

Sheet Revisions	
Date:	Comments

Colorado Department of Transportation
2829 West Howard Place
CDOT HQ, 3rd Floor
Denver, CO 80204
Phone: 303-757-9021 FAX: 303-757-9868
Project Development Branch JBK

WINGWALLS FOR PIPE OR BOX CULVERTS

Issued by the Project Development Branch: July 31, 2019

STANDARD PLAN NO.
M-601-20
Standard Sheet No. 2 of 2
Project Sheet Number:

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR
PT CLOVERLEAF, LLC
1864 WOODMOOR DRIVE
COLORADO SPRINGS, CO 80920
ATTN: JOE DESJARDIN
(719) 476-0800
JDESJARDIN@PROTERRACO.COM

J·R ENGINEERING
A Westrian Company
Centennial 303-740-9393 • Colorado Springs 719-593-2593
Fort Collins 970-491-9888 • www.jrengineering.com

No.	REVISION	BY	DATE

H-SCALE	N/A		
V-SCALE	N/A		
DATE	08/18/21		
DESIGNED BY	SAV		
DRAWN BY	SAV		
CHECKED BY			

Know what's below. Call before you dig.

ENGINEER'S STATEMENT
STANDARD DETAILS SHOWN WERE REVIEWED ONLY FOR THE APPLICATION ON THIS PROJECT

MIKE A. BRAMLETT, P.E.
COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING, LLC

CLOVERLEAF FILING 2

DETAIL SHEET

SHEET 28 OF 28

JOB NO. 25158.01

Know what's below. Call before you dig.

X:\2515000.all\2515801\Drawings\Sheet Dwgs\CD\25158001DT01.dwg, DT03, 8/20/2021 11:47:22 AM, CS

CLOVERLEAF FILING NO. 2

EL PASO COUNTY, COLORADO

PUBLIC UTILTY PLAN

STANDARD NOTES FOR EL PASO COUNTY CONSTRUCTION PLANS

1. ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).

3. CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOIL AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING:
   3.1. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
   3.2. CITY OF COLORADO SPRINGS/ EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2
   3.3. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS AND BRIDGE CONSTRUCTION
   3.4. CDOT M&S STANDARDS

4. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSIONS OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE EINGEERI9NG CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER-THE-FACT WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.

5. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ONSITE AND OFFSITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.

6. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.

7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS-ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.

8. CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.

9. CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.

10. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.

11. SIGHT VISIBILITY TRIANGLES ARE IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED IN SIGHT TRIANGLES.

12. SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS AND MUTCD CRITERIA.

13. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.

14. THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWENER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.

STANDARD NOTES FOR WOODMOOR CONSTRUCTION PLANS

1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL BE IN COMPLIANCE WITH THE SYSTEM SPECIFICATIONS AND THE RULES AND REGULATIONS OF THE DISTRICT.

2. DEVELOPER/OWNER OR CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING AND OBTAINING ANY AND ALL PERMITS REQUIRED TO PERFORM THE WORK FROM ALL APPLICABLE REGULATORY AGENCIES OR ENTITIES HAVING JURISDICTION, AND WILL PERFORM THE WORK IN ACCORDANCE WITH ANY AND ALL APPLICABLE ORDINANCES, REGULATIONS, LAWS AND PERMITS ISSUED BY SUCH ENTITIES OR AGENCIES.

3. CONTRACTOR SHALL POTHOLE AND FIELD VERIFY ELEVATIONS, PIPE SIZE, TYPE, ALIGNMENT, ECT. OF EXISTING WATER LINES AT ALL NOTED CONNECTION POINTS TO THE DISTRICTS SYSTEM.

4. IN CASE OF CONFLICT BETWEEN THESE PLANS AND THE SYSTEM SPECIFICATIONS, CONSULT THE DISTRICT PRIOR TO COMMENCING WORK.

5. CONTRACTOR SHALL NOTIFY THE DISTRICT A MINIMUM OF 2 WORKING DAYS PRIOR TO PERFORMING SCHEDULED TESTS FOR OBSERVATION BY DISTRICT PERSONNEL.

6. BYPASS PUMPING OF EXISTING FLOWS IS REQUIRED WHEN CONNECTING TO THE DISTRICT'S EXISTING SEWER SYSTEM. CONTRACTOR SHALL PROVIDE 100% REDUNDANT PUMPING CAPACITY WITH CONTINUOUS SUPERVISION DURING PUMPING OPERATIONS WITH THE DISTRICT PRIOR TO COMMENCING PUMPING OPERATIONS.

7. THE COLORADO CENTRAL ZONE (NAD 83) IS THE HORIZONTAL CONTROL FOR IMPROVEMENTS SHOWN ON THE PLAN SET.

8. THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88) IS THE VERTICAL CONTROL FOR THE IMPROVEMENTS SHOWN ON THE PLAN SET.

WATER AND SEWER SERVICE LINE NOTES

1. SEWER SERVICE TAP CONNECTIONS WILL BE LOCATED A MINIMUM OF FIVE (5) FEET AWAY FROM ANY MANHOLE AND BE INSTALLED AT THE MAIN WITH A GASKET WYE OR TEE FITTING FOR NEW INSTALLATIONS OF SEWER MAIN. FOR SERVICE TAP CONNECTIONS TO EXISTING SEWER MAINS A SEWER SERVICE SADDLE TAP MAY BE INSTALLED.

2. SEWER SERVICE LINES/STUBS WILL BE INSTALLED SUCH THAT A SEWER SERVICE CLEAN OUT IS LOCATED 5 FEET INTO THE PROPERTY OR CENTERED IN THE FRONT LOT EASEMENT, WHICHEVER IS LESS AND BE LOCATED A MINIMUM OF 10 FEET AWAY FROM ANY SIDE LOT LINE. TRACER WIRE FROM THE SEWER TAP AT THE MAIN TO THE CLEAN OUT AT THE PROPERTY LINE SHALL BE INSTALLED AND A METAL TEE POST WILL BE INSTALLED NEXT TO THE CLEAN OUT FOR PROTECTION AND EASE OF LOCATION.

3. A MINIMUM OF 10 FEET OF HORIZONTAL SEPARATION MUST BE MAINTAINED BETWEEN WATER SERVICE LINES AND SEWER SERVICE LINES.

4. WATER SERVICE LINES/STUBS WILL BE ¾" IN DIAMETER UNLESS OTHERWISE NOTED AND INSTALLED SUCH THAT THE CURB STOP IS LOCATED 5 FEET INTO THE PROPERTY OR CENTERED IN THE FRONT LOT EASEMENT, WHICHEVER IS LESS AND A MINIMUM OF 10 FEET FROM ANY SEWER SERVICE LINE/SEWER CLEAN OUT.

5. CURB STOPS AND BOXES SHALL BE BURIED SUCH THAT 6-FEET (±0') OF COVER EXISTS AS MEASURED FROM FINISHED GRADE TO THE TOP OF THE SERVICE LINE. A METAL TEE POST WILL BE INSTALLED AT THE CURB STOP BOX FOR PROTECTION AND EASE OF LOCATION.

6. WATER SERVICE TAPS WILL NOT BE LOCATED ON A FIRE HYDRANT LATERAL OR WITHIN 30" FROM A PIPE BELL, VALVE OR MECHANICAL JOINT CONNECTION. WATER TAPS WILL MAINTAIN MINIMUM OF FIVE (5) FOOT SPACING FROM OTHER TAPS ON THE WATER MAIN.

7. DIRECT TAPPING OF WATER SERVICE LINE CORPORATION (I.E. NO SADDLE) WILL NOT BE PERMITTED.

Know what's **below.**
Call before you dig.

VICINITY MAP
SCALE: 1"=2000'

SHEET INDEX

1	–	COVER SHEET
2	–	LEGEND & TYPICAL SECTION
3–8	–	SANITARY SEWER PLAN AND PROFILE
9–10	–	UNDER DRAIN
11–15	–	WATER DISTRIBUTION PLAN
16–18	–	RAW WATER PLAN
19–20	–	UTILITY SERVICE PLAN
21–24	–	DETAIL SHEETS

CONTACTS:

OWNER/DEVELOPER	PT CLOVERLEAF, LLC 1864 WOODMOOR DRIVE, SUITE 100 COLORADO SPRINGS, CO 80920 P~719-476-0800
ENGINEER/SURVEYOR	JR ENGINEERING, LLC ATTN: MIKE A. BRAMLETT 5475 TECH CENTER DRIVE, SUITE 235 COLORADO SPRINGS, CO 80919 P~303-267-6240
FIRE PROTECTION DISTRICT	TRI-LAKES MONUMENT FPD 16055 OLD FOREST POINT, SUITE 103 MONUMENT, CO 80132 P~719-484-0911
DISTRICT	WOODMOOR WATER & SANITATION DISTRICT NO. 1 1845 WOODMOOR DRIVE MONUMENT, CO 80132 P~719-488-2525 EXT. 0
EL PASO COUNTY	PLANNING AND COMMUNITY DEVELOPMENT 2880 INTERNATIONAL CIRCLE, SUIT 110 COLORADO SPRINGS, CO 80910 P~719-520-6819 DEPARTMENT OF PUBLIC WORKS 3275 AKERS DR COLORADO SPRINGS, CO 80922 P~719-529-6460

BENCHMARK

NGS MONUMENT T 294 BEING MONUMENTED BY A 3-1/4" BRASS DISC SET IN A 4'X4' BOULDER, LOCATED 1.8 MILES EAST ALONG HIGBY ROAD FROM ITS INTERSECTION WITH JACKSON CREEK PARKWAY, 40 FEET SOUTH OF THE CENTERLINE OF THE ROAD, 6 FEET SOUTH OF A FENCE, AND 6.2 FEET SOUTH OF A WITNESS POST. SAID MONUMENT HAVING A PUBLISHED ELEVATION OF 7247.10 FEET, NAVD88.

BASIS OF BEARING

THE BASIS OF BEARINGS IS THE WESTERLY LINE OF TRACT, B, WOODMOOR PLACER, BEING MONUMENTED BY A 1-1/4" YELLOW PLASTIC CAP ILLEGIBLE AT BOTH ENDS. SAID LINE BEARING N26°20'33"E AS REFERENCED TO COLORADO STATE PLANE CENTRAL ZONE.

EL PASO COUNTY STATEMENT

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.

JENNIFER IRVINE, P.E. DATE

COUNTY ENGINEER/ECM ADMINISTRATOR

ENGINEER'S STATEMENT

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING

32314 8/20/21

MIKE A. BRAMLETT, P.E. DATE
COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING, LLC

WOODMOOR WATER AND SANITATION DISTRICT NO. 1
APPROVED FOR CONSTRUCTION

DATE: BY:

THESE PLANS HAVE BEEN REVIEWED ONLY FOR GENERAL CONFORMANCE WITH DISTRICT RULES AND REGULATIONS AND SYSTEM SPECIFICATIONS. REVIEW AND CONSTRUCTION APPROVAL BY THE DISTRICT DOES NOT RELIEVE THE DEVELOPER/OWNER AND/OR CONTRACTOR FROM RESPONSIBILITY FOR COMPLIANCE WITH ANY RULES, REGULATIONS, OR SPECIFICATIONS REQUIRED BY THE DISTRICT.

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR
PT CLOVERLEAF, LLC
1864 WOODMOOR DRIVE
COLORADO SPRINGS, CO 80920
ATTN: JOE DESJARDIN
(719) 476-0800
JDESJARDIN@PROTERRACO.COM

J·R ENGINEERING
A Westrian Company
Centennial 303-740-9393 • Colorado Springs 719-593-2593
Fort Collins 970-491-9888 • www.jrengineering.com

No.	REVISION	BY	DATE

H-SCALE	1"=2000'
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DATE	08/20/21
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CLOVERLEAF FILING NO. 2

COVER SHEET

SHEET 1 OF 24

JOB NO. 25158.01

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LAYER LINETYPE LEGEND

	EXISTING	PROPOSED
PHASE LINE		
MATCH LINE		
SECTION LINE		
BOUNDARY LINE		
PROPERTY LINE		
EASEMENT LINE		
RIGHT OF WAY		
R.O.W. A LINE	A	A
CENTERLINE		
CITY LIMITS		
WIRE FENCE		
CHAIN LINK FENCE		
WOOD FENCE		
MASONRY FENCE		
GUARDRAIL		
CONC. BARRIER		
CABLE TV	TV	TV
ELECTRIC	E	E
FIBER OPTIC	FO	FO
GAS MAIN	G	G
IRRIGATION MAIN	IRR	IRR
OIL/PETRO. MAIN	O	O
OVERHEAD UTILITY	OHU	OHU
SANITARY SEWER	S	
STORM DRAIN		
TELEPHONE	T	T
WATER MAIN	W	
RAW WATER LINE	RWL	RWL
SWALE/WATERWAY FLOWLINE		
DIVERSION DITCH		
DIVERSION CHANNEL		
MAJOR DRAINAGE BASIN		
MINOR DRAINAGE BASIN		
TOP OF SLOPE		
TOE OF SLOPE		
EDGE OF WATER		
INDEX CONTOUR	6100	6100
INTERMEDIATE CONTOUR		
DEPRESSION CONT. (INDEX)	6100	6100
DEPRESSION CONT. (INTER)		
TOP OF CUTS		
TOE OF FILLS		
CUT AND FILL LINE		C/F C/F
SILT FENCE	SF SF	SF SF
100 YEAR FLOODPLAIN	100YR	100YR
500 YEAR FLOODPLAIN	500YR	500YR
FLOODWAY	FLDWY	FLDWY
BASE FLOOD ELEVATION		
EDGE OF WETLANDS		
STONE WALL		

UTILITIES LEGEND

	EXISTING	PROPOSED
STORM SEWER		
MANHOLE		
STORM INLET		
AREA INLET – SQUARE		
AREA INLET – ROUND		
FLARED END SECTION		
RIPRAP		
SANITARY SEWER		
LINE MARKER	Mkr San	
SERVICE MARKER		
CLEAN-OUT		
MANHOLE W/ DIRECTIONAL FLOW ARROW		
WATER LINE		
LINE MARKER	Mkr W	
SERVICE MARKER		
FIRE HYDRANT		
FIRE CONNECTION		
MANHOLE		
BEND		
BLOW-OFF VALVE		
WELL	WELL	WELL
METER		
VALVE		
REDUCER		
THRUST BLOCK		
CROSS		
PLUG W/ THRUST BLOCK		
TEE		
REVERSE ANCHOR		
ANODE		
AIR & VACUUM VALVE ASSEMBLY		
TRANSMISSION BLOW-OFF ASSEMBLY		
GAS LINE		
MARKER	Mkr G	
SERVICE MARKER		
METER		
VALVE		
PLUG		
TEE		
DRY UTILITIES		
CABLE TV MARKER	Mkr TV	
CABLE TELEVISION PEDESTAL		
ELECTRIC MARKER	Mkr E	
ELECTRIC SERVICE MARKER		
ELECTRICAL PEDESTAL		
ELECTRICAL METER		
ELECTRICAL MANHOLE		
FIBER-OPTIC MARKER	Mkr FO	
IRRIGATION PEDESTAL		
TELEPHONE MARKER	Mkr T	
TELEPHONE PEDESTAL		
TELEPHONE MANHOLE		
UTILITY POLE		
GUY ANCHOR		
GUY POLE		
MISC. UTILITIES		
VENT PIPE	VP	VP
TEST HOLE DESIGNATOR	TH# FIRM/AGENCY	

TYPICAL CROSS SECTION

N.T.S. (ALSIKE CLOVER CT, CRIMSON CLOVER DR, WHITE CLOVER DRIVE)
(PUBLIC ROAD, URBAN LOCAL, POSTED SPEED LIMIT = 25 MPH)
(*SEE PLAN VIEW FOR 20' PUE/DRAINAGE EASEMENT LOCATION)

Know what's **below.** **Call** before you dig.

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR
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No.	REVISION	BY	DATE

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DATE	08/20/21
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CLOVERLEAF FILING NO. 2

LEGEND & TYPICAL SECTION

SHEET 2 OF 24

JOB NO. 25158.01

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LINE TABLE		
LINE	BEARING	DISTANCE
SL1	S28°42'06"E	41.31'
SL2	S80°33'35"E	142.08'
SL3	S83°12'34"E	381.82'
SL4	N80°19'22"E	100.59'

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
SC2	52°53'30"	245.50'	226.63'
SC3	16°27'33"	199.00'	57.17'

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

SP01 PROFILE
STA 1+00.00 TO 10+49.59

NOTES

1. A 6" PVC UNDER DRAIN IS TO BE RAN 1' OFF OF THE PROPOSED SANITARY MAIN WITH INSPECTIONS PIT TO BE PLACED AS DISPLAYED. SEE DETAILS SHEET 10.
2. THE PROPOSED UNDER DRAIN SHALL ONLY DEVIATE FROM THE TYPICAL UNDER DRAIN TRENCH SECTION AT THE OUTFALL LOCATION SEE SHEET 9.
3. ALL 8" PVC SANITARY SEWER PIPES SHALL BE SDR35.

Know what's **below.**
Call before you dig.

50 25 0 50 100
HORIZONTAL
ORIGINAL SCALE: 1" = 50'
VERTICAL
ORIGINAL SCALE: 1" = 5'

WOODMOOR WATER AND SANITATION DISTRICT NO. 1
APPROVED FOR CONSTRUCTION

DATE: BY:

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No.	REVISION	BY	DATE

H-SCALE	1"=50'
V-SCALE	1"=5'
DATE	08/20/21
DESIGNED BY	APL
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CLOVERLEAF FILING NO. 2

SANITARY SEWER PLAN AND PROFILE

SHEET 3 OF 24

JOB NO. 25158.01

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LINE TABLE		
LINE	BEARING	DISTANCE
SL5	N84°07'17"E	61.00'
SL6	N05°52'43"W	409.84'
SL7	N60°57'58"W	323.28'

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
SC4	49°20'56"	239.00'	205.85'
SC5	40°39'04"	239.00'	169.57'
SC6	51°03'38"	201.02'	179.14'

NOTES

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2. THE PROPOSED UNDER DRAIN SHALL ONLY DEVIATE FROM THE TYPICAL UNDER DRAIN TRENCH SECTION AT THE OUTFALL LOCATION SEE SHEET 9.
3. ALL 8" PVC SANITARY SEWER PIPES SHALL BE SDR35.

SP02 PROFILE
STA 1+00.00 TO 13+50.00

811 Know what's below. Call before you dig.

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WOODMOOR WATER AND SANITATION DISTRICT NO. 1
APPROVED FOR CONSTRUCTION

DATE: BY:

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No.	REVISION	BY	DATE

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V-SCALE	1" = 5'
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CLOVERLEAF FILING NO. 2

SANITARY SEWER PLAN AND PROFILE

SHEET 4 OF 24

JOB NO. 25158.01

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CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
SC8	71°09'22"	199.00'	247.14'

LINE TABLE		
LINE	BEARING	DISTANCE
SL8	N28°37'08"E	292.37'
SL9	N60°57'58"W	323.28'

NOTES

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2. THE PROPOSED UNDER DRAIN SHALL ONLY DEVIATE FROM THE TYPICAL UNDER DRAIN TRENCH SECTION AT THE OUTFALL LOCATION SEE SHEET 9.
3. ALL 8" PVC SANITARY SEWER PIPES SHALL BE SDR35.

SP06 PROFILE
STA 1+00.00 TO 3+92.37

SP02 PROFILE (1)
STA 13+50.00 TO 17+00.00

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50 25 0 50 100

HORIZONTAL
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VERTICAL
ORIGINAL SCALE: 1" = 5'

WOODMOOR WATER AND SANITATION DISTRICT NO. 1
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CLOVERLEAF FILING NO. 2

SANITARY SEWER PLAN AND PROFILE

SHEET 5 OF 24

JOB NO. 25158.01

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NOTES

1. A 6" PVC UNDER DRAIN IS TO BE RAN 1' OFF OF THE PROPOSED SANITARY MAIN WITH INSPECTIONS PIT TO BE PLACED AS DISPLAYED. SEE DETAILS SHEET 10.
2. THE PROPOSED UNDER DRAIN SHALL ONLY DEVIATE FROM THE TYPICAL UNDER DRAIN TRENCH SECTION AT THE OUTFALL LOCATION SEE SHEET 9.
3. ALL 8" PVC SANITARY SEWER PIPES SHALL BE SDR35.

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

SP03 PROFILE
STA 1+00.00 TO 11+50.00

LINE TABLE		
LINE	BEARING	DISTANCE
SL10	N61°22'52"W	363.38'
SL11	N61°22'52"W	427.34'

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
SC9	55°30'09"	199.00'	192.77'

Know what's below.
Call before you dig.

50 25 0 50 100
HORIZONTAL
ORIGINAL SCALE: 1" = 50'
VERTICAL
ORIGINAL SCALE: 1" = 5'

WOODMOOR WATER AND SANITATION DISTRICT NO. 1
APPROVED FOR CONSTRUCTION

DATE: BY:

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PREPARED FOR
PT CLOVERLEAF, LLC
1864 WOODMOOR DRIVE
COLORADO SPRINGS, CO 80920
ATTN: JOE DESJARDIN
(719) 476-0800
JDESJARDIN@PROTERRACO.COM

J·R ENGINEERING
A Westrian Company
Centennial 303-740-9393 • Colorado Springs 719-593-2593
Fort Collins 970-491-9888 • www.jrengineering.com

No.	REVISION	BY	DATE

H-SCALE	1"=50'
V-SCALE	1"=5'
DATE	08/20/21
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CLOVERLEAF FILING NO. 2

SANITARY SEWER PLAN AND PROFILE

SHEET 6 OF 24

JOB NO. 25158.01

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LINE TABLE		
LINE	BEARING	DISTANCE
SL12	N05°52'43"W	458.95'
SL13	N05°52'43"W	480.51'
SL14	S84°03'34"W	240.61'
SL15	N05°52'43"W	238.60'

NOTES

1. A 6" PVC UNDER DRAIN IS TO BE RAN 1' OFF OF THE PROPOSED SANITARY MAIN WITH INSPECTIONS PIT TO BE PLACED AS DISPLAYED. SEE DETAILS SHEET 10.
2. THE PROPOSED UNDER DRAIN SHALL ONLY DEVIATE FROM THE TYPICAL UNDER DRAIN TRENCH SECTION AT THE OUTFALL LOCATION SEE SHEET 9.
3. ALL 8" PVC SANITARY SEWER PIPES SHALL BE SDR35.

SP03 PROFILE (2)
STA 11+50.00 TO 20+30.00

SP04 PROFILE
STA 1+00.00 TO 5+79.21

50 25 0 50 100
HORIZONTAL ORIGINAL SCALE: 1" = 50'
VERTICAL ORIGINAL SCALE: 1" = 5'

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No.	REVISION	BY	DATE

H-SCALE	1"=50'
V-SCALE	1"=5'
DATE	08/20/21
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CLOVERLEAF FILING NO. 2

SANITARY SEWER PLAN AND PROFILE

SHEET 7 OF 24

JOB NO. 25158.01

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CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
SC1	19°06'15"	403.36'	134.49'

LINE TABLE		
LINE	BEARING	DISTANCE
SL19	N65°01'00"E	60.71'

LINE TABLE		
LINE	BEARING	DISTANCE
SL17	S18°03'22"W	104.50'
SL18	S89°30'04"E	131.01'

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
SC11	43°51'37"	296.00'	226.59'

EX SP01 PROFILE
STA 3+00.00 TO 5+37.82

SP05 PROFILE
STA 1+00.00 TO 5+62.13

NOTES

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3. ALL 8" PVC SANITARY SEWER PIPES SHALL BE SDR35.

50 25 0 50 100
HORIZONTAL
ORIGINAL SCALE: 1" = 50'
VERTICAL
ORIGINAL SCALE: 1" = 5'

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No.	REVISION	BY	DATE

H-SCALE	1"=50'
V-SCALE	1"=5'
DATE	08/20/21
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CLOVERLEAF FILING NO. 2

SANITARY SEWER PLAN AND PROFILE

SHEET 8 OF 24

JOB NO. 25158.01

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UD02 PROFILE
STA 1+00.00 TO 5+77.28

UNDER DRAIN TRENCH SECTION
SCALE: N.T.S.

NOTES

1. SEE DETAILS SHEET 10 FOR UNDER DRAIN INSTALLATION INFORMATION.
2. UNDER DRAIN IS TO BE LOCATED 1' HORIZONTALLY FROM OUTSIDE OF SANITARY PIPE TO OUTSIDE OF UNDER DRAIN UNTIL OUTFALL. SEE DETAIL THIS SHEET.
3. UNDER DRAIN IS TO BE LOCATED 1.5' VERTICALLY FROM BOTTOM OF SANITARY PIPE TO TOP OF UNDER DRAIN UNTIL OUTFALL. SEE DETAIL THIS SHEET.
4. FOR UNDER DRAIN SERVICE LOCATION SEE UTILITY SERVICE PLAN SHEETS 19 AND 20.

50 25 0 50 100
HORIZONTAL
ORIGINAL SCALE: 1" = 50'
VERTICAL
ORIGINAL SCALE: 1" = 5'

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CLOVERLEAF FILING NO. 2

UNDER DRAIN

SHEET 9 OF 24

JOB NO. 25158.01

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Colorado Springs Utilities — It's how we're all connected

PASSIVE GROUNDWATER UNDERDRAIN SCHEMATIC

C6-1

DATED 5/2015

NOTES:

1. TRENCH DAMS ARE REQUIRED AT THE TRANSITION FROM ACTIVE UNDERDRAINS TO PASSIVE UNDERDRAINS.

Colorado Springs Utilities — It's how we're all connected

UNDERDRAIN TRENCH DAM

C6-2

DATED 5/2015

ACTIVE UNDERDRAIN PIPE

PASSIVE UNDERDRAIN PIPE

NOTES:

1. ACTIVE UNDERDRAIN PIPE REQUIRED FOR 10' DOWNSTREAM OF EACH MANHOLE WHERE UNDERDRAINS ARE INSTALLED.

Colorado Springs Utilities — It's how we're all connected

PREFERRED COMMON TRENCH UNDERDRAIN WITH WASTEWATER MAIN

C6-3

DATED 5/2015

UNDER DRAIN TRENCH SECTION

SCALE: N.T.S.

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UNDER DRAIN

SHEET 10 OF 24

JOB NO. 25158.01

4. Outfall

Figure 13-3 – Underdrain Service Line

Figure 13-2D – Underdrain Inspection Pit

Figure 13-2C – Alternate 2 Underdrain Inspection Pit

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KEY MAP
N.T.S.

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N50°01'28"W	297.08'
L2	N28°22'43"W	103.67'
L3	S05°52'43"E	1093.44'

WP03 PROFILE (1)
STA 1+00.00 TO 15+00.00

NOTES

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3. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH WOODMOOR WATER AND SANITATION DISTRICT AND EL PASO COUNTY.

50 25 0 50 100

HORIZONTAL
ORIGINAL SCALE: 1" = 50'
VERTICAL
ORIGINAL SCALE: 1" = 5'

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CLOVERLEAF FILING NO. 2
WATER DISTRIBUTION PLAN

SHEET 11 OF 24

JOB NO. 25158.01

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LINE TABLE		
LINE	BEARING	DISTANCE
L4	S61°22'52"E	815.21'
L5	S50°07'52"E	16.31'
L6	S28°37'08"W	169.09'
L7	S14°33'06"W	26.23'

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C1	55°30'09"	209.00'	202.46'

NOTES

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WP03 PROFILE (2)
STA 15+00.00 TO 26+32.83

WP04 PROFILE
STA 1+00.00 TO 2+97.49

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V–SCALE	1"=5'
DATE	08/20/21
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CLOVERLEAF FILING NO. 2

WATER DISTRIBUTION PLAN

SHEET 12 OF 24

JOB NO. 25158.01

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WP02 PROFILE (2)
STA 13+00.00 TO 23+19.00

LINE TABLE		
LINE	BEARING	DISTANCE
L11	N60°57'58"W	323.29'
L12	S28°37'08"W	374.33'
L13	S66°06'42"W	4.00'
L14	S79°44'02"W	16.14'

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C4	90°24'53"	209.00'	329.81'
C5	36°59'51"	201.12'	129.87'

NOTES

1. DEFLECTION SHALL BE ACCOMPLISHED BY USING MECHANICAL JOINT FITTINGS, OR USE OF HIGH DEFLECTION COUPLINGS.
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50 25 0 50 100

HORIZONTAL
ORIGINAL SCALE: 1" = 50'
VERTICAL
ORIGINAL SCALE: 1" = 5'

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CLOVERLEAF FILING NO. 2

WATER DISTRIBUTION PLAN

SHEET 13 OF 24

JOB NO. 25158.01

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WP02 PROFILE (1)
STA 1+00.00 TO 13+00.00

NOTES

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LINE TABLE		
LINE	BEARING	DISTANCE
L8	N84°07'17"E	51.00'
L9	N05°52'43"W	426.07'
L10	N21°03'14"W	25.87'

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C2	90°00'00"	249.00'	391.13'
C3	39°36'18"	212.48'	146.88'

50 25 0 50 100

HORIZONTAL
ORIGINAL SCALE: 1" = 50'
VERTICAL
ORIGINAL SCALE: 1" = 5'

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CLOVERLEAF FILING NO. 2

WATER DISTRIBUTION PLAN

SHEET 14 OF 24

JOB NO. 25158.01

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NOTES

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LINE TABLE		
LINE	BEARING	DISTANCE
L15	S53°00'03"W	26.15'
L16	S69°02'44"W	19.78'
L17	S65°56'45"W	10.00'
L18	S31°15'38"E	83.02'
L19	S42°13'07"E	33.36'
L20	S57°28'07"E	100.98'
L21	S75°57'34"E	65.37'
L22	S83°12'34"E	511.46'
L23	N80°19'55"E	82.42'

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C6	12°09'57"	362.60'	76.99'
C7	16°27'33"	209.00'	60.04'

WP01 PROFILE
STA 1+00.00 TO 10+44.12

EX WP01 PROFILE
STA 1+00.00 TO 2+72.50

Know what's **below.**
Call before you dig.

50 25 0 50 100
HORIZONTAL
ORIGINAL SCALE: 1" = 50'
VERTICAL
ORIGINAL SCALE: 1" = 5'

WOODMOOR WATER AND SANITATION DISTRICT NO. 1
APPROVED FOR CONSTRUCTION

DATE: BY:

THESE PLANS HAVE BEEN REVIEWED ONLY FOR GENERAL CONFORMANCE WITH DISTRICT RULES AND REGULATIONS AND SYSTEM SPECIFICATIONS. REVIEW AND CONSTRUCTION APPROVAL BY THE DISTRICT DOES NOT RELIEVE THE DEVELOPER/OWNER AND/OR CONTRACTOR FROM RESPONSIBILITY FOR COMPLIANCE WITH ANY RULES, REGULATIONS, OR SPECIFICATIONS REQUIRED BY THE DISTRICT.

UNTIL SUCH TIME AS THESE PLANS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR
PT CLOVERLEAF, LLC
1864 WOODMOOR DRIVE
COLORADO SPRINGS, CO 80920
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(719) 476-0800
JDESJARDIN@PROTERRACO.COM

J·R ENGINEERING
A Westrian Company
Centennial 303-740-9393 • Colorado Springs 719-593-2593
Fort Collins 970-491-9888 • www.jrengineering.com

No.	REVISION	BY	DATE

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CLOVERLEAF FILING NO. 2
WATER DISTRIBUTION PLAN

SHEET 15 OF 24
JOB NO. 25158.01

X:\2510000 all\25158\00\Drawings\Sheet Dwgs\CD\Woodmoor (Utilities)\25158\00\WP01.dwg, WP06, 8/20/2021 9:42:20 AM, CS

LINE TABLE		
LINE	BEARING	DISTANCE
L1	S34°27'27"E	12.91'
L2	S20°21'56"E	15.28'
L3	S05°52'44"E	173.28'
L4	S50°52'43"E	21.21'
L5	N84°07'17"E	78.00'
L6	S50°52'43"E	14.14'
L7	S05°52'43"E	450.38'
L8	S29°22'16"E	49.29'

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C1	31°34'33"	236.92'	130.57'

RWP01 PROFILE
STA 1+00.00 TO 9+50.00

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

NOTES

1. DEFLECTION SHALL BE ACCOMPLISHED BY USING MECHANICAL JOINT FITTINGS, OR USE OF HIGH DEFLECTION COUPLINGS.
2. CURVE LINEAR ALIGNMENTS SHALL BE MADE USING HIGH DEFLECTION COUPLINGS. CONTRACTOR TO SUBMIT PRODUCT/MATERIAL SPECIFICATIONS TO WOODMOOR WATER AND SANITATION DISTRICT FOR APPROVAL PRIOR TO PURCHASE/CONSTRUCTION.
3. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH WOODMOOR WATER AND SANITATION DISTRICT AND EL PASO COUNTY.

30 15 0 30 60
HORIZONTAL
ORIGINAL SCALE: 1" = 30'
VERTICAL
ORIGINAL SCALE: 1" = 3'

811 Know what's below. Call before you dig.

WOODMOOR WATER AND SANITATION DISTRICT NO. 1
APPROVED FOR CONSTRUCTION

DATE: BY:

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No.	REVISION	BY	DATE

H–SCALE	1" = 30'
V–SCALE	1" = 3'
DATE	08/20/21
DESIGNED BY	APL
DRAWN BY	SAV
CHECKED BY	

CLOVERLEAF FILING NO. 2

RAW WATER PLAN

SHEET 16 OF 24

JOB NO. 25158.01

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NOTES

1. DEFLECTION SHALL BE ACCOMPLISHED BY USING MECHANICAL JOINT FITTINGS, OR USE OF HIGH DEFLECTION COUPLINGS.
2. CURVE LINEAR ALIGNMENTS SHALL BE MADE USING HIGH DEFLECTION COUPLINGS. CONTRACTOR TO SUBMIT PRODUCT/MATERIAL SPECIFICATIONS TO WOODMOOR WATER AND SANITATION DISTRICT FOR APPROVAL PRIOR TO PURCHASE/CONSTRUCTION.
3. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH WOODMOOR WATER AND SANITATION DISTRICT AND EL PASO COUNTY.

LINE TABLE		
LINE	BEARING	DISTANCE
L9	S60°56'23"E	323.20'
L10	S79°27'15"E	8.19'
L11	S36°11'33"E	12.16'
L12	S08°48'27"W	112.95'
L13	S17°16'07"E	12.59'

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C1	31°34'33"	236.92'	130.57'
C2	18°52'47"	202.91'	66.86'

RWP02 PROFILE
STA 9+50.00 TO 15+81.50

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Know what's **below.**
Call before you dig.

30 15 0 30 60
HORIZONTAL
ORIGINAL SCALE: 1" = 30'
VERTICAL
ORIGINAL SCALE: 1" = 3'

WOODMOOR WATER AND SANITATION DISTRICT NO. 1
APPROVED FOR CONSTRUCTION

DATE: BY:

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H–SCALE	1" = 30'
V–SCALE	1" = 3'
DATE	08/20/21
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CLOVERLEAF FILING NO. 2

RAW WATER PLAN

SHEET 17 OF 24

JOB NO. 25158.01

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NOTES

1. ABANDONED MAINS SHALL BE FLOWFILLED ENTIRELY AND PLUGGED ON BOTH ENDS AND BE IN ACCORDANCE WITH WOODMOOR WATER AND SANITATION DISTRICT SPECIFICATIONS.
2. ALL CONSTRUCTION SHALL MEET REQUIREMENTS FOR EL PASO COUNTY AND WOODMOOR WATER AND SANITATION DISTRICT.

Know what's **below.**
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50 25 0 50 100
ORIGINAL SCALE: 1" = 50'

WOODMOOR WATER AND SANITATION DISTRICT NO. 1
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CLOVERLEAF FILING NO. 2

RAW WATER PLAN

SHEET 18 OF 24

JOB NO. 25158.01

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LOTS: 1–10 , 120–126

TYPICAL UTILITY SERVICE LAYOUT

N.T.S

KEY MAP

N.T.S.

LOTS: 33–51 , 91–121

NOTES

1. ALL SANITARY SERVICE LINES SHALL BE 4" PVC AND INSTALLED PER DETAIL G–8.
2. ALL POTABLE WATER SERVICE LINES SHALL BE ¾" TYPE K COPPER AND INSTALLED PER DETAIL G–6.
3. A MINIMUM OF 10' SEPARATION BETWEEN WATER AND SANITARY LINES IS REQUIRED. SERVICE SHALL BE AT LEAST 10' AWAY FROM SIDE LOT LINES, PER DETAIL G–5.
4. PROVIDE METAL T–POST AT CURB STOP WHEN CONSTRUCTION OF WATER SERVICE IS COMPLETE.
5. PROVIDE METAL T–POST AT CLEAN OUT WHEN CONSTRUCTION OF SANITARY SERVICE IS COMPLETE.
6. SERVICES STUB OUTS SHALL EXTENDED TO THE INSIDE EDGE OF FRONT UTILITY EASEMENT PER DETAILS G–8 AND G–6.
7. ALL UNDER DRAIN SERVICES SHALL BE INSTALLED PER COLORADO SPRINGS UTILITY FIGURE 13–3. SEE SHEET 10.
8. SEE THIS SHEET FOR TYPICAL UTILITY SERVICE LAYOUT.
9. SANITARY SERVICES SHALL HAVE A MINIMUM SLOPE OF 2%.
10. SERVICES SHALL EXTEND TO THE 20' PUBLIC UTILITY EASEMNENT FOR LOTS 116–121 AND 11–18.

Know what's **below.**
Call before you dig.

50 25 0 50 100

ORIGINAL SCALE: 1" = 50'

WOODMOOR WATER AND SANITATION DISTRICT NO. 1
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CLOVERLEAF FILING NO. 2

UTILITY SERVICE PLAN

SHEET 19 OF 24

JOB NO. 25158.01

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LOTS: 11–32 , 46–97 , 127–132

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NOTES

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2. ALL POTABLE WATER SERVICE LINES SHALL BE ¾" TYPE K COPPER AND INSTALLED PER DETAIL G–6.
3. A MINIMUM OF 10' SEPARATION BETWEEN WATER AND SANITARY LINES IS REQUIRED. SERVICE SHALL BE AT LEAST 10' AWAY FROM SIDE LOT LINES, PER DETAIL G–5.
4. PROVIDE METAL T–POST AT CURB STOP WHEN CONSTRUCTION OF WATER SERVICE IS COMPLETE.
5. PROVIDE METAL T–POST AT CLEAN OUT WHEN CONSTRUCTION OF SANITARY SERVICE IS COMPLETE.
6. SERVICES STUB OUTS SHALL EXTENDED TO THE INSIDE EDGE OF FRONT UTILITY EASEMENT PER DETAILS G–8 AND G–6.
7. ALL UNDER DRAIN SERVICES SHALL BE INSTALLED PER COLORADO SPRINGS UTILITY FIGURE 13–3. SEE SHEET 10.
8. SEE SHEET 19 FOR TYPICAL UTILITY SERVICE LAYOUT.
9. SANITARY SERVICES SHALL HAVE A MINIMUM SLOPE OF 2%.
10. SERVICES SHALL EXTEND TO THE 20' PUBLIC UTILITY EASEMENT FOR LOTS 116–121 AND 11–18.

50 25 0 50 100
ORIGINAL SCALE: 1" = 50'

WOODMOOR WATER AND SANITATION DISTRICT NO. 1
APPROVED FOR CONSTRUCTION

DATE: BY:

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CLOVERLEAF FILING NO. 2
UTILITY SERVICE PLAN

SHEET 20 OF 24

JOB NO. 25158.01

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1 TYPICAL UTILITIES LAYOUT (PLAN)
1"=10'

WOODMOOR WATER & SANITATION DISTRICT NO. 1	TYPICAL UTILITIES LAYOUT (PLAN)	G-3
	GENERAL	–
	THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS.	MAY 13, 2014

1 TYPICAL UTILITIES LAYOUT (SECTION)
1"=10'

WOODMOOR WATER & SANITATION DISTRICT NO. 1	TYPICAL UTILITIES LAYOUT (SECTION)	G-4
	GENERAL	–
	THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS.	MAY 13, 2014

1 TYPICAL SERVICES LAYOUT (PLAN)
1"=10'

WOODMOOR WATER & SANITATION DISTRICT NO. 1	TYPICAL SERVICES LAYOUT (PLAN)	G-5
	GENERAL	–
	THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS.	MAY 13, 2014

REFER TO WATER & SEWER SERVICE LINE EQUIPMENT SPECIFICATIONS FOR SUPPLEMENTAL INFORMATION (APP C OF THE SYSTEM SPECIFICATIONS)

GENERAL NOTES:
– PROVIDE METAL T-POST AT CURB STOP WHEN CONSTRUCTION OF STUB-OUT TO LOT IS COMPLETE. T-POST MAY BE REMOVED AFTER CONNECTION TO SERVICE STUB.

1 WATER SERVICE (3/4" TO 2")
1"=10'

WOODMOOR WATER & SANITATION DISTRICT NO. 1	WATER SERVICE (3/4" TO 2")	G-6
	GENERAL	–
	THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS.	MAY 13, 2014

REFER TO WATER & SEWER SERVICE LINE EQUIPMENT SPECIFICATIONS FOR SUPPLEMENTAL INFORMATION (APP C OF THE SYSTEM SPECIFICATIONS)

GENERAL NOTES:
– PROVIDE METAL T-POST AT CURB STOP WHEN CONSTRUCTION OF STUB-OUT TO LOT IS COMPLETE. T-POST MAY BE REMOVED AFTER CONNECTION TO SERVICE STUB.
– INTERMEDIATE CLEAN-OUT ASSEMBLIES REQUIRED AT 100' INTERVALS (FOR UNI-DIRECTIONAL) OR 200' INTERVALS (FOR BI-DIRECTIONAL) BETWEEN PROPERTY LINE CLEAN-OUT AND BUILDING CLEAN-OUT..

1 TYPICAL SEWER SERVICE (SECTION)
1"=10'

WOODMOOR WATER & SANITATION DISTRICT NO. 1	TYPICAL SEWER SERVICE (SECTION)	G-8
	GENERAL	–
	THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS.	MAY 13, 2014

REFER TO WATER & SEWER SERVICE LINE EQUIPMENT SPECIFICATIONS FOR SUPPLEMENTAL INFORMATION (APP C OF THE SYSTEM SPECIFICATIONS)

1 WATER METER SETTING (RESIDENTIAL)
NOT TO SCALE

1 WATER METER SETTING (COMMERCIAL)
NOT TO SCALE

WOODMOOR WATER & SANITATION DISTRICT NO. 1	WATER METER SETTING DETAIL	G-9
	GENERAL	–
	THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS.	MAY 13, 2014

TRENCH WIDTH		
PIPE DIAMETER	MINIMUM WIDTH	MAXIMUM WIDTH
4"	1'-4"	2'-4"
6"	1'-6"	2'-6"
8"	1'-8"	2'-8"
10"	1'-10"	2'-10"
12"	2'-0"	3'-0"
14"	2'-2"	3'-2"

1 TYPICAL WATER TRENCH (SECTION)
1"=2'

WOODMOOR WATER & SANITATION DISTRICT NO. 1	TYPICAL WATER TRENCH	W-1
	WATER UTILITY DISTRIBUTION PIPING	33 11 00
	THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS.	MAY 13, 2014

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H-SCALE	N/A
V-SCALE	N/A
DATE	08/20/21
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DRAWN BY	APL
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CLOVERLEAF FILING NO. 2
DETAIL SHEETS

SHEET 21 OF 24
JOB NO. 25158.01

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1 WATER UNDER SMALL CONDUIT (PLAN)
NOT TO SCALE

2 WATER UNDER LARGE CONDUIT (PLAN)
NOT TO SCALE

3 WATER UNDER SMALL CONDUIT (SECTION)
NOT TO SCALE

4 WATER UNDER LARGE CONDUIT (SECTION)
NOT TO SCALE

WOODMOOR WATER & SANITATION DISTRICT NO. 1	WATER CROSSING UNDER UTILITIES	W-3
	WATER UTILITY DISTRIBUTION PIPING	33 11 00
	THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS.	MAY 13, 2014

FOR INSTALLATIONS IN UNPAVED AREAS SEE DRAWING W-6

1 GATE VALVE DETAIL
1"=2'

WOODMOOR WATER & SANITATION DISTRICT NO. 1	GATE VALVE	W-4
	WATER UTILITY DISTRIBUTION EQUIPMENT	33 12 00
	THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS.	MAY 13, 2014

FOR INSTALLATIONS IN UNPAVED AREAS SEE DRAWING W-6

1 DEAD-END BLOW-OFF (SECTION)
NOT TO SCALE

WOODMOOR WATER & SANITATION DISTRICT NO. 1	DEAD-END BLOW-OFF ASSEMBLY	W-5
	WATER UTILITY DISTRIBUTION EQUIPMENT	33 12 00
	THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS.	MAY 13, 2014

1 CONCRETE COLLAR SINGLE (PLAN)
1"=2'

2 CONCRETE COLLAR DOUBLE (PLAN)
1"=2'

3 CONCRETE COLLAR SINGLE (SECTION)
1"=2'

4 CONCRETE COLLAR DOUBLE (SECTION)
1"=2'

WOODMOOR WATER & SANITATION DISTRICT NO. 1	VALVE CANS IN UNPAVED AREAS	W-6
	WATER UTILITY DISTRIBUTION EQUIPMENT	33 12 00
	THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS.	MAY 13, 2014

1 FIRE HYDRANT ASSEMBLY (SECTION)
1"=2'

WOODMOOR WATER & SANITATION DISTRICT NO. 1	FIRE HYDRANT ASSEMBLY	W-8
	WATER UTILITY DISTRIBUTION EQUIPMENT	33 12 00
	THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS.	MAY 13, 2014

GENERAL NOTES:
– EARTHWORK, TRACER WIRE, AND PIPE WRAP OMMITTED FOR CLARITY.

DETAIL NOTES:
1. 18" MIN. IF CROSSING UNDER CONDUIT LESS THAN 12"ø. 36" MIN. IF CROSSING UNDER CONDUIT 12" TO 30" DIAMETER.

1 WATER LOWERING BY FITTING (SECTION)
1"=2'

WOODMOOR WATER & SANITATION DISTRICT NO. 1	WATER LOWERING BY FITTING	W-9
	WATER UTILITY DISTRIBUTION EQUIPMENT	33 12 00
	THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS.	MAY 13, 2014

GENERAL NOTES:
– EARTHWORK, TRACER WIRE, AND PIPE WRAP OMMITTED FOR CLARITY.

1 TYPICAL JUNCTION ASSEMBLY (PLAN)
1"=2'

WOODMOOR WATER & SANITATION DISTRICT NO. 1	WATER MAIN JUNCTION	W-10
	WATER UTILITY DISTRIBUTION EQUIPMENT	33 12 00
	THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS.	MAY 13, 2014

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CLOVERLEAF FILING NO. 2

DETAIL SHEETS

SHEET 22 OF 24

JOB NO. 25158.01

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TEE'S			
NOMINAL RUN DIAMETER	NOMINAL BRANCH DIAMETER	RUN	BRANCH
[IN]	[IN]	[FT]	[FT]
4"	4"	10	F.O.
4"	6"	10	8
4"	8"	10	42
6"	4"	10	F.O.
6"	6"	10	F.O.
6"	8"	10	21
8"	4"	10	F.O.
8"	6"	10	F.O.
8"	8"	10	2

CALCULATION METHOD & ASSUMPTIONS
EBAA IRON RESTRAINED LENGTH CALCULATOR (VERSION 5.4)

PIPE MATERIAL: PVC
SOIL TYPE: CH, GRAN. FILL
SAFETY FACTOR: 1.5:1
TRENCH TYPE: 5
DEPTH OF BURY: 6 FEET
TEST PRESSURE: 200 PSI

REDUCERS		
NOMINAL LARGE DIAMETER	NOMINAL SMALL DIAMETER	LENGTH
[IN]	[IN]	[FT]
6"	4"	32
8"	4"	59
8"	6"	35

DEAD-ENDS AND VALVES	
NOMINAL PIPE DIAMETER	LENGTH
[IN]	[FT]
4"	44
6"	62
8"	82

HORIZONTAL AND VERTICAL BENDS										
NOMINAL PIPE DIAMETER	HORIZONTAL BENDS				VERTICAL BENDS (OFFSETS)					
					45°		22.5°		12.5°	
	90°	45°	22.5°	11.25°	UPPER	LOWER	UPPER	LOWER	UPPER	LOWER
[IN]	[FT]	[FT]	[FT]	[FT]	[FT]	[FT]	[FT]	[FT]	[FT]	[FT]
4"	90° BENDS NOT ALLOWED	5	3	2	19	5	9	3	5	2
6"		7	4	2	26	7	13	3	7	2
8"		10	5	3	34	8	17	4	9	2

NOTES:
1. RESTRAINED PIPE LENGTH SHALL BE ACHIEVED WITH MECHANICAL JOINT RESTRAINTS OR BELL RESTRAINTS. DO NOT USE THREADED TIE RODS OR CONCRETE KICKER BLOCKS.

2. FOR VALVES, BENDS, AND TEE RUNS THE LENGTHS OF TIED PIPES ARE MEASURED EACH WAY.

3. FOR DEAD-ENDS, TEE BRANCHES, AND REDUCERS THE LENGTHS OF TIED PIPE ARE MEASURED ONE WAY IN THE OPPOSITE DIRECTION OF THE APPLIED THRUST.

4. F.O. = MECHANICAL JOINT RESTRAINT AT FITTING ONLY.

WOODMOOR WATER & SANITATION DISTRICT NO. 1 | LENGTH OF RESTRAINED PIPE (PVC) | W-11
WATER UTILITY DISTRIBUTION EQUIPMENT | 33 12 00
THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS. | MAY 13, 2014

1 TYPCIAL TRENCH SECTION
1"=2'

TRENCH WIDTH		
PIPE DIAMETER	MINIMUM WIDTH	MAXIMUM WIDTH
4"	1'-4"	2'-4"
6"	1'-6"	2'-6"
8"	1'-8"	2'-8"
10"	1'-10"	2'-10"
12"	2'-0"	3'-0"
14"	2'-2"	3'-2"

WOODMOOR WATER & SANITATION DISTRICT NO. 1 | TYPICAL SEWER TRENCH SECTION | S-1
SANITARY UTILITY SEWERAGE PIPING | 33 31 00
THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS. | MAY 13, 2014

SEE DRAWING S-3 FOR TYPICAL FLAT TOP MANHOLE

1 TYPICAL ECCENTRIC CONE MANHOLE
1" = 2'

WOODMOOR WATER & SANITATION DISTRICT NO. 1 | TYPICAL ECCENTRIC CONE MANHOLE | S-2
SANITARY UTILITY SEWERAGE STRUCTURES | 33 39 00
THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS. | MAY 13, 2014

SEE DRAWING S-10 FOR FINISHING IN NON-PAVED SURFACES

1 CONE TOP MANHOLE IN PAVEMENT
1" = 2'

2 FLAT TOP MANHOLE IN PAVEMENT
1" = 2'

WOODMOOR WATER & SANITATION DISTRICT NO. 1 | MANHOLES IN PAVED AREAS | S-9
SANITARY UTILITY SEWERAGE STRUCTURES | 33 39 00
THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS. | MAY 13, 2014

1 REGULAR RING PLAN
1" = 1'

3 REGULAR COVER PLAN
1" = 1'

2 REGULAR RING SECTION
1" = 1'

4 REGULAR COVER SECTION
1" = 1'

WOODMOOR WATER & SANITATION DISTRICT NO. 1 | STANDARD SEWER RING & COVER | S-11
SANITARY UTILITY SEWERAGE STRUCTURES | 33 39 00
THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS. | MAY 13, 2014

1 TOUNGE AND GROOVE JOINT
1" = 1'

2 PIPE BEDDING AT CONNECTION TO MANHOLE
1" = 2'

WOODMOOR WATER & SANITATION DISTRICT NO. 1 | MANHOLE DETAILS | S-5
SANITARY UTILITY SEWERAGE STRUCTURES | 33 39 00
THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS. | MAY 13, 2014

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

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No.	REVISION	BY	DATE

H-SCALE	N/A
V-SCALE	N/A
DATE	08/20/21
DESIGNED BY	APL
DRAWN BY	APL
CHECKED BY	

CLOVERLEAF FILING NO. 2
DETAIL SHEETS

SHEET 23 OF 24
JOB NO. 25158.01

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1 AIR/VAC VAULT (PLAN)
1"=2'

WOODMOOR WATER & SANITATION DISTRICT NO. 1	PRECAST CIRCULAR WATER VAULT	W-13
	WATER UTILITY STRUCTURES	33 19 00
	THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS.	MAY 13, 2014

1 AIR/VAC VAULT (SECTION)
1"=2'

WOODMOOR WATER & SANITATION DISTRICT NO. 1	PRECAST CIRCUALR WATER VAULT	W-14
	WATER UTILITY STRUCTURES	33 19 00
	THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS.	MAY 13, 2014

SEE DRAWING W-15 FOR FINISHING IN PAVED SURFACES

1 MANHOLE OUTSIDE OF PAVEMENT
1" = 2'

2 MANHOLE OUTSIDE OF PAVEMENT
1" = 2'

WOODMOOR WATER & SANITATION DISTRICT NO. 1	MANHOLES IN UNPAVED AREAS	W-16
	WATER UTILITY STRUCTURES	33 19 00
	THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS.	MAY 13, 2014

1 REGULAR RING PLAN
1" = 1'

3 REGULAR COVER PLAN
1" = 1'

2 REGULAR RING SECTION
1" = 1'

4 REGULAR COVER SECTION
1" = 1'

WOODMOOR WATER & SANITATION DISTRICT NO. 1	STANDARD WATER RING & COVER	W-17
	WATER UTILITY STRUCTURES	33 19 00
	THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS.	MAY 13, 2014

SEE DRAWING S-7 FOR HIGH-VELOCITY CHANNEL AND BENCH

1 STANDARD CHANNEL AND BENCH (PLAN)
1" = 2'

2 STANDARD CHANNEL AND BENCH (SECTION)
1" = 2'

WOODMOOR WATER & SANITATION DISTRICT NO. 1	SEWER MANHOLE STANDARD BASE	S-6
	SANITARY UTILITY SEWERAGE STRUCTURES	33 39 00
	THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS.	MAY 13, 2014

CHANNEL DROP FROM INVERT IN TO INVERT OUT SHALL BE 0.3 FEET.

1 CHANNEL GEOMETRY
1" = 2'

WOODMOOR WATER & SANITATION DISTRICT NO. 1	BASE GEOMETRY	S-8
	SANITARY UTILITY SEWERAGE STRUCTURES	33 39 00
	THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS.	MAY 13, 2014

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DRAWN BY	APL
CHECKED BY	

CLOVERLEAF FILING NO. 2

DETAIL SHEETS

SHEET 24 OF 24

JOB NO. 25158.01

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