### GENERAL NOTES

- 1. THE LOCATION OF EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND MAY NOT INCLUDE ALL UTILITIES. THE EXCAVATION CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES.
- 2. BEFORE COMMENCING ANY EXCAVATION, CALL I-800-922-1987 FOR EXISTING UTILITY LOCATIONS.
- 3. THE CONTRACTOR WILL TAKE THE NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES FROM DAMAGE DUE TO THIS OPERATION. ANY DAMAGE TO THE UTILITIES WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, AND ANY SERVICE DISRUPTION WILL BE SETTLED BY THE CONTRACTOR.
- 4. ALL BACKFILL, SUB-BASE AND/OR BASE COURSE (CLASS 6) MATERIAL SHALL BE COMPACTED TO THE SOILS ENGINEER'S RECOMMENDATIONS, AND APPROVED BY EL PASO COUNTY DEVELOPMENT SERVICES ENGINEERING DIVISION.
- 5. ALL STATIONING IS CENTERLINE UNLESS OTHERWISE INDICATED. ALL ELEVATIONS ARE CENTERLINE UNLESS OTHERWISE INDICATED.
- 6. THE CONTRACTOR SHALL REVEGETATE ALL DISTURBED AREAS AS SOON AS POSSIBLE AND EROSION CONTROL SHALL BE INSTALLED AND MAINTAINED IN A FUNCTIONAL MANNER AT ALL TIMES. DEVELOPER RESPONSIBLE FOR MAINTAINING DISTURBED AREAS UNTIL REVEGETATION IS COMPLETE.
- 7. ALL DISTURBED PAVEMENT EDGES SHALL BE CUT TO NEAT LINES. REPAIR SHALL CONFORM TO THE EPC ECM APPENDIX K-1.2C.

MANNER AT ALL TIMES. DEVELOPER IS RESPONSIBLE FOR MAINTAINING DISTURBED AREAS UNTIL REVEGETATION IS COMPLETE.

- 8. ADDITIONAL EROSION CONTROL STRUCTURES MAY BE REQUIRED AT THE TIME OF CONSTRUCTION.
- BUILDING CONTRACTORS WILL BE RESPONSIBLE FOR CONSTRUCTING POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES.
   ASPHALT THICKNESS AND BASE COURSE THICKNESS 9COMPACTED) FOR ROADS SHALL BE PER DESIGN REPORT BY OWNER'S GEOTECHNICAL ENGINEER. OWNER'S GEOTECHNICAL ENGINEER TO BE ON SITE AT TIME OF ROAD CONSTRUCTION TO EVALUATE SOIL CONDITIONS AND DETERMINE IF ADDITIONAL MEASURES ARE NECESSARY TO ASSURE STABILITY OF THE NEW ROADS. PAVEMENT DESIGN
- SHALL BE APPROVED BY DEVELOPMENT SERVICES DEPARTMENT PRIOR TO CONSTRUCTION. 11. THE CONTRACTOR SHALL REVEGETATE ALL DISTURBED AREAS WITHIN 21 DAYS OF SUBSTANTIAL GRADING COMPLETION. EROSION CONTROL SHALL BE INSTALLED AND MAINTAINED IN A FUNCTIONAL
- 12. TYPE M RIP-RAP WITH 4" OF TYPE II GRANULAR BEDDING AND MIRIFI 180N OR EQUAL MAY BE SUBSTITUTED WHERE TYPE L RIP-RAP WITH MIRIFI FW 700 OR EQUAL IS SPECIFIED.
- 13. ALL MATERIALS AND INSTALLATION PRODECURES SHALL BE IN COMPLIANCE WITH ANY AND ALL APPLICABLE EL PASO COUNTY STANDARDS AND WITH PAINT BRUSH HILLS METRO DISTRICT CONSULTING ENGINEER APPROVAL.
- 14. ALL WATER MAINS SHALL BE AWWA C900-SDR18 PVC WITH PUSH-ON SINGLE GASKET TYPE JOINTS.
- 15. ALL WATER MAIN FITTINGS SHALL BE MADE FROM GRAY-IRON OR DUCTILE IRON AND FURNISHED WITH MECHANICAL JOINT ENDS. ALL FITTINGS SHALL HAVE A PRESSURE RATING OF 250 PSI.
- 16. ALL WATER LINE BENDS, TEES, BLOW-OFFS AND PLUGS AT DEAD-END MAINS SHALL BE PROTECTED FROM THRUST BY USING CONCRETE THRUST BLOCKS AND/OR RODDING AND RESTRAINED PIPE PER THE PAINT BRUSH HILLS METRO DISTRICT CONSULTING ENGINEER APPROVAL.
- 17. MAXIMUM DEFLECTION OF 8" & 12" PVC WATER MAIN JOINTS IS 4 DEGREES. CORRESPONDING MINIMUM CURVE RADIUS IS 286'. ADDITIONAL 11.25' OR 22.5' BENDS MAY BE REQUIRED FOR PROPER ALIGNMENT.
- 18. CONTRACTOR IS RESPONSIBLE FOR PROVIDING DETAILED AS-BUILTS OF ALL WATER MAIN, STORM SEW AND SAN. SEW. MAIN INSTALLATIONS, INCLUDING ACCURATE DISTANCES OF MAIN LINES, VALVES, FITTINGS, MANHOLES AND LOCATIONS OF WATER AND SEWER SERVICES.
- 19. SANITARY SEWER PIPE AND FITTINGS: PVC 4"-8" ASTM D3034, TYPE PSM, SDR 35: PUSH-ON JOINTS AND MOLDED RUBBER GASKETS MAXIMUM HORIZONTAL DEFLECTION, AFTER INSTALLATION AND BACK FILLING SHALL NOT EXCEED 3% OF THE PIPE DIAMETER. (MINIMUM CURVE RADIUS IS 100' FOR 8" PVC SAN. SEW. MAIN.

#### 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 MA chapter 6 for accessibility criteria 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 SOILS AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING: a. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
- b. CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2
- c. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION d. 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 VERSION 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 ON-SITE AND OFF-SITE, 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 AND 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. 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 AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED WITHIN 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 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 MARKINGS 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 THAT 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 MUTCH 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 HAVE "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" MINIMUM 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. CROSSWALKS LINES SHALL BE 12" WIDE AND 8' LONG PER CDOT S-627-1.
- 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 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.



AGENCIES						11
OWNER/DEVELOPER:	THE LANDHUIS COMPANY 212 N. WAHSATCH AVE, SUITE 301 COLORADO SPRINGS, CO 80903		14			SIC
CIVIL ENGINEER:	JEFF MARK (719) 635-3200 M & S CIVIL CONSULTANTS, INC. 20 BOULDER CRESCENT, SUITE 110 COLORADO SPRINGS, CO 80903 VIRCIL A SANCHEZ R.E. (719) 955-5485		NG NO.	ANS	6/25/2020	0F 25
COUNTY ENGINEERING:	EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT 2880 INTERNATIONAL CIRCLE, SUITE 110 COLORADO SPRINGS, CO 80910		LS FILI	TION PI	DATE: 06	SHEET 1
METRO DISTRICT:	MR. GILBERT LAFORCE (719) 520–7945 PAINT BRUSH HILLS METRO DISTRICT 9830 LIBERTY GROVE DR. FALCON, CO 80831 MR. LEON GOMES (719) 495–8188		JIH HSL	NSTRUC	SCALE:	NUKIZUNIAL: N/A VERTICAL: N/A
FIRE DEPARTMENT:	FALCON FIRE PROTECTION DISTRICT 7030 N. MERIDIAN RD. FALCON, CO 80831 CHIEF HARWIG (719) 495–4050		NT BRI	CO	10-014	SM GW M
GAS DEPARTMENT:	BLACKHILLS ENERGY 37 WIDEFIELD BOULEVARD, WIDEFIELD, COLORADO 80911 MR GEORGE M. PETERSON (719) 392–3491		PAI		ROJECT NO.	ESIGNED BY: RAWN BY: HECKED BY:
ELECTRIC DEPARTMENT:	MOUNTAIN VIEW ELECTRIC P.O. BOX 1600 LIMON, CO 80828 MR. LES ULFERS. (719) 495–2283		UITE 110	0 80903		
TELEPHONE COMPANY:	CENTURY LINK (LOCATORS) 811 AT&T (LOCATORS) 811		O ROUIDER CRESCENT S	COLORADO SPRINGS, CC HONE: 719.955.5485		
NI: N PLANS AND SPECIFICATIONS ENGINEER'S STATEMENT: SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID DETAILED PLANS AND SPECIFICATIONS RDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION ICATIONS, AND SAID PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH THE APPLICABLE MASTER DRAINAGE PLANS AND NS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE ND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY RS, OR OMISSIONS ON MY PART IN PREPARATION OF THE DETAILED PLANS AND SPECIFICATIONS.						
ORADO P.E. NO. 37160	DATE					C
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HAVE READ AND WILL COMPLY WITH "	THE REQUIREMENTS SPECIFIED IN THESE DETAILED	PLANS AND SPECIFICATIONS	). 37160	FOR BEHA		
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CM SECTION 1.12, THESE CONSTRUCT THE EL PASO COUNTY ENGINEER. IF OR APPROVAL, INCLUDING PAYMENT C	ION DOCUMENTS WILL BE VALID FOR CONSTRUCTION CONSTRUCTION HAS NOT YET STARTED WITHIN THO F REVIEW FEES AT THE PLANNING AND COMMUNIT	DN FOR A PERIOD OF 2 YEARS DSE 2 YEARS, THE PLANS WILL Y DEVELOPMENT DIRECTOR'S	APRV'D. BY: DATE:			ED CHANGES TO OR WED BY THE PREPARER
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PCD PROJEC	T NO.	FOR BURIED UTILITY INFORMATION 48 HRS BEFORE YOU DIG CALL 1-800-922-1987	REVISIONS: NO. DATE:			L L L L L L L L L L L L L L L L L L L









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	HLINE – STA 15+00	7225	APRV'D. BY: DATE: APRV'D. BY: DATE:
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LP EL: 7262.57 LP STA: 1+50.0 PVI STA: 1+75.0 PVI EL: 7263.0 K:58.82 50.00' VC		VC: 5+06.12 EL: 7266.44 VT: 3+56.12 FL: 7267.60	2.03%	
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FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES FOR BURIED UTILITY INFORMATION 48 HRS BEFORE YOU DIG CALL 1-800-922-1987				
	LP EL: 7262.57 LP STA: 1+50.0 PVI STA: 1+75.0 PVI EL: 7263.0 K:58.82 50.00' VC 0 0 0 0 0 0 0 0 0 0 0 0 0	LP EL: 7262.57 LP STA: 1+75.00 PVI STA: 1+75.00 PVI EL: 7263.01 K:58.82 50.00' VC 016 016 016 016 016 016 016 016	LP EL: 7262.57         PVI EL: 7263.01         PVI EL: 7263.01         K: 58.82         50.00' VC         0 <td>Image: Period Control of the second secon</td>	Image: Period Control of the second secon





# **FINSBURY COURT** STA 1+00.00 TO STA 6+32.40

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			FOR AND ON BEHALF OF	20 BOULDER CRESCENT, SUITE 110 COLORADO SPRINGS, CO 80903 PHONE: 719,955.5485	STREET IMPROVEMENT PLANS
			M&S CIVIL CONSULTANTS, INC.		PROJECT NO. 10-014 SCALE: DATE: 06/25/2020 HORIZONTAL: 06/25/2020
THE ENGINEER PREPARING THESE PLANS USES OF THESE PLANS. ALL CHANGES T. OF THESE PLANS.	MILL NOT BE RESPONSIBLE, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR O THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER			CIVIL CONSULTANTS, INC.	DESIGNED BY: JWP 1"=50' DRAWN BY: JWP VERTICAL: SHEET 8 OF 25 SIO8 CHECKED BY: GW 1"=5' SHEET 8 OF 25



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	STREET DESIGN: REVIEW: TRAFFIC ENGINEERIN CURB & GUTTER:
	FINAL REVIEW: DRAINAGE DESIG DRAINAGE REVIEW: FILED IN ACCORDANC 2001, AS AMENDED.



CENTERLINE LINE TABLE						
LINE LENGTH DIRECTION						
L1 1721.19'		N0°35'00"W				
L2 233.85'		N7°14'08"E				
L3	1356.82'	N0°35'00"W				

	CENTERLINE CURVE TABLE							
	CURVE	RADIUS	LENGTH	DELTA				
	C1	725.00'	98.94'	7°49'08"				

0+00	7+00			1+00	2+00	COUNTRY MAN
						7.00
			/ 210			
Revise : match s	stationing to street plans.	i	7215			EXISTING GF © CENTE
					0.50%	
	EL=7256.42	7250	7225			8140 SHA. 2+2 EL=7221:40 BIA. 0 BIA.
ELL: 7	-1.00%	7255		<u>F_F_INT</u> STA 1+16 EL=7220.0		
:=7257.71 =18.04 .00' VC						PROPOSED GRADE_/ @ LEFT FLOWLINE
=7257.30 : 17+06.74 : 16+74.76	<u>FL-FL_INT</u> STA_18+04.15 EL=7256.70	7250	7220	0.97%		
EL: 7	-0.78%	7255		1+47.00 -7220.32		
7+24.76 257.32			7230			
: 17+10.06 : 16+74.76 :=7257.71 =18.77						
17,10,00						





PEET SIO5         22         PCR         EL=7255.07         EF_ INT         STA 17+72.61 17.00' LT         EL=7255.33         Q-Q         STD       23         CROSS         PAN         EF_ INT         STA 17+72.61 17.00' LT         EL=7255.76         PCR         EL=7256.02         PCR         EL=7256.02         24         SHEET SI05	Add access ramp on "T" intersection per ECM Figure 2-36 1" = 50' 0 25 50 100 Scale in Feet CL CENTERLINE INTERSECTION LT LEFT FL-FL FLOWLINE INTERSECTION LT RIGHT RT RIGHT RT RIGHT RT RIGHT RT RIGHT	IEII0       PAINT BRUSH HILLS FILING NO. 14       SD903       STREET IMPROVEMENT PLANS       PROJECT NO. 10–014       PROJECT NO. 10–014     DATE: 06/25/2020       PROJECT NO. 10–014     DATE: 06/25/2020       DESIGNED BY: JWP     DATE: 06/25/2020       DESIGNED BY: JWP     PORIZONTAL: 1.*=50'       DESIGNED BY: JWP     VERTICAL: 28       DESIGNED BY: JWP     VERTICAL: 28       DESIGNED BY: JWP     VERTICAL: 28
	DI ETDEGIN TRANSITIONFLFL UNUTINE FL TOP BACK OF CURBETEND TRANSITIONTBCTOP BACK OF CURBPCPOINT OF CURVEXPANCROSSPANPCCPOINT OF CURB RETURNSHTSHEETPRCPOINT OF CURB RETURNSHTSHEETPRCPOINT OF REVERSE CURVEP&PPLAN AND PROFILEPTPOINT OF TANGENTC&GCURB AND GUTTERELELEVATIONWWESTCDSCUL-DE-SACEEASTKNKNUCKLEROWRIGHT OF WAYLPLOOPEOPEDGE OF PAVEMENTNNORTHWTRWATERSSOUTHSANSANITARY SEWERKDKEYNES DRIVEPROPPROPOSEDHDHARTWOOD DRIVECOLLCOLLECTORGMDGRACE MANOR DRIVELPTLOW POINTCMDCOUNTRY MANOR DRIVERESRESIDENTIALKBDKINGSBURY DRIVEWDWATERLOO DRIVEFCFINSBURY COURTDDEVONCOVE DRIVEHPHIGH POINTHIGH POINT	20 BOULDER CRESCENT, SUIT 20 BOULDER CRESCENT, SUIT COLORADO SPRINGS, CO 8 PHONE: 719.955.5485 PHONE: 719.955.5485 COMIL CONSULTANTS, INC.
38 57 0.09 71 Revise K Value to meet criteria per ECM 60.90 92.22 7255 7250 19.22 19.22 7250	Image: series of the series	. SANCHEZ, COLORADO P.E. NO. 37160 FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.
$\begin{array}{c cccc}  & & & & & & & \\ \hline & & & & \\$	eto   er ECM	VIRGIL A APRV'D. BY: DATE: APRV'D. APRV'D. BY: DATE: APRV'D. APRV'D. APRV'D. APVV'D.
G:	DESIGN DATA:         TE:          TE:          SIDEWALKS: WIDTH          ASPHALT THICKNESS:         LOCATION: Attached         Detached          Detached          Detached          CURB TYPE       A Ø         GURB TYPE       C Ø         CURB TYPE       C Ø         Class 6	REVISIONS:         vo.       DATE:       BY:       DESCRIPTION:         Description:       Description:       Description:         Descriptio





![](_page_13_Figure_1.jpeg)

The southbound right turn will be pending ECM Administrator's determination

Highway Access code provides a waiver to right-turn lane requirements when the 20<sup>th</sup> year predicted volume in the travel lane is below 150 vehicles per hour. As the southbound traffic volume is projected to be only 87 vehicles per hour, LSC recommends that the requirement for a right-turn deceleration lane be waived. The County may require the submittal of a deviation request form. ٨

NG G E		J. 14	AN		Sl13-14.dwg		S114	
G 7		RUSH HILLS FILING NC		GE AND STRIPING PLA		SCALF DATE: 2/26/2018	HORIZ: 1"=50' SHEET 14 OF 25 VERT: N/A	
			SIGN		PROJECT NO. 10-014	DESIGNED RY.	DRAWN BY: JWP CHECKED BY: GW	
	20 BOULDER CRESCENT, SUITE 110 COLORADO SPRINGS, CO 80903 PHONE: 719.955.5485							
	CML CONSULTANTS, INC.							
	. 37160 FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.							
	VIRGIL A. SANCHEZ, COLORADO P.E. NC							
		APRV'D. BY: DATE:					CED CHANGES TO OR OVED BY THE PREPARER	
	4S:	VTE: BY: DESCRIPTION:					ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE, OR LIABLE FOR, UNAUTHORIZE OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPRON HESE PLANS.	
	REVISIO	NO. D.			+		변화 문화	

![](_page_14_Figure_0.jpeg)

3" MIN 🚽 3" MIN -

![](_page_14_Figure_14.jpeg)

![](_page_15_Figure_0.jpeg)

![](_page_15_Figure_1.jpeg)

![](_page_15_Figure_3.jpeg)

CAUTIO

![](_page_16_Figure_0.jpeg)

File: C: \Users\cpierce\Documents\10014A-PBH 14\PBH 14\dwg\Const Dwg\storm\ST04.dwg Plotstamp: 7/7/2020 9:4

![](_page_17_Figure_0.jpeg)

![](_page_18_Figure_0.jpeg)

<sup>-</sup>ile: C:\Users\cpierce\Documents\10014A-PBH 14\PBH 14\dwg\Const Dwg\storm\ST06.dwg Plotstamp: 7/1/2020 1(

I I I I I I I I I I I I I I I I I I I		For Locating & Marking Gas, Electric, Water & Telephone LinesFor BURIED UTILITY INFORMATION As HRS BEFORE YOU DIG CALL 1-800-922-1987	PAINT BRUSH HILLS FILING NO. 14STORM BLAN& PROFILESTORM PLAN& PROFILEPROJECT NO. 10-014DATE: 06/25/20DESIGNED BY:GMNDESIGNED BY:GMNCHECKED BY:VAST=50'CHECTT=5
			I S I I I I I I I I I I I I I I I I I I
10.64 LF - 18" RCP @ 4.89% Q100=2.7 CFS 73.83 LF -	7260		VIRGIL A. SANCHEZ, COLORADO P.E. NO. 37160 FOR AND O BEHALF OF M&S CIVIL CONSULTAN INC.
V=7250.96 A 25+61.00 ORM_MH_11 STALL 8.5' X 7.33' TYPE 1 MH = 7258.46 V IN(18")=7254.23 (SE) V IN(18")=7251.73 (NE) V OUT(48")=7251.73 (NE) A = 7258.46 V IN(48")=7251.73 (NE) A = 7251.43 (W) A = 7251.43 (W) A = 2254.75 (W) A = 2254	7250		APRV <sup>TD.</sup> BY: DATE: APRV <sup>TD.</sup> BY: DATE:
25+00 26+00	7230		REVISIONS:       Date:       BY:       Description:         No.       Date:       Parese       Plans.         No.       Description:       All chances to of these plans.         No.       Description:       All chances to of these plans.

![](_page_19_Figure_0.jpeg)

![](_page_20_Figure_0.jpeg)

![](_page_20_Figure_2.jpeg)

![](_page_21_Figure_0.jpeg)

For Locating & Marking Gas, ELECTRIC, WATER & TELEPHONE LINESFor BURIED UTLITY INFORMATION As HRS BEFORE YOU DIG CALL 1-800-922-1987	PAINT BRUSH HILLS FILING NO. 14	STORM PLAN & PROFILE	ROJECT NO. 10-014 SCALE: DATE: 06/25/20	ESIGNED BY: GT 1"=50' RAWN BY: CMN VERTICAL: SHEET 22 OF 25 ST09 HECKED BY: VAS 1"=5'
		PHONE: 719.955.5485	TS,	DF CIVIL CONSULTANTS, INC.
	VIRGIL A. SANCHEZ, COLORADO P.E. NO. 37160	FOR AND C BEHALF OF	CONSULTAN INC.	
	APRV'D. BY: DAT			BE RESPONSIBLE, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR
	REVISIONS: No. DATE: BY: DESCRIPTION:			THE ENGINEER PREPARING THESE PLANS WILL NOT BE USES OF THESE PLANS. ALL CHANGES TO THE PLAN OF THESE PLANS.

![](_page_22_Figure_0.jpeg)

![](_page_23_Figure_0.jpeg)

![](_page_24_Figure_0.jpeg)

#### **GENERAL NOTES**

- 1. THE LOCATION OF EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND MAY NOT INCLUDE ALL UTILITIES. THE EXCAVATION CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES.
- 2. BEFORE COMMENCING ANY EXCAVATION, CALL **I-800-922-1987** FOR EXISTING UTILITY LOCATIONS.
- 3. THE CONTRACTOR WILL TAKE THE NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES FROM DAMAGE DUE TO THIS OPERATION. ANY DAMAGE TO THE UTILITIES WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, AND ANY SERVICE DISRUPTION WILL BE SETTLED BY THE CONTRACTOR.
- 4. ALL BACKFILL, SUB-BASE AND/OR BASE COURSE (CLASS 6) MATERIAL SHALL BE COMPACTED TO THE SOILS ENGINEER'S RECOMMENDATIONS, AND APPROVED BY EL PASO COUNTY DEVELOPMENT SERVICES ENGINEERING DIVISION.
- 5. ALL STATIONING IS CENTERLINE UNLESS OTHERWISE INDICATED. ALL ELEVATIONS ARE CENTERLINE UNLESS OTHERWISE INDICATED.
- 6. THE CONTRACTOR SHALL REVEGETATE ALL DISTURBED AREAS AS SOON AS POSSIBLE AND EROSION CONTROL SHALL BE INSTALLED AND MAINTAINED IN A FUNCTIONAL MANNER AT ALL TIMES. DEVELOPER RESPONSIBLE FOR MAINTAINING DISTURBED AREAS UNTIL REVEGETATION IS COMPLETE.
- 7. ALL DISTURBED PAVEMENT EDGES SHALL BE CUT TO NEAT LINES. REPAIR SHALL CONFORM TO THE EPC ECM APPENDIX K-1.2C.
- 8. ADDITIONAL EROSION CONTROL STRUCTURES MAY BE REQUIRED AT THE TIME OF CONSTRUCTION.
- 9. BUILDING CONTRACTORS WILL BE RESPONSIBLE FOR CONSTRUCTING POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES.
- 10. ASPHALT THICKNESS AND BASE COURSE THICKNESS 9COMPACTED) FOR ROADS SHALL BE PER DESIGN REPORT BY OWNER'S GEOTECHNICAL ENGINEER. OWNER'S GEOTECHNICAL ENGINEER TO BE ON SITE AT TIME OF ROAD CONSTRUCTION TO EVALUATE SOIL CONDITIONS AND DETERMINE IF ADDITIONAL MEASURES ARE NECESSARY TO ASSURE STABILITY OF THE NEW ROADS. PAVEMENT DESIGN SHALL BE APPROVED BY DEVELOPMENT SERVICES DEPARTMENT PRIOR TO CONSTRUCTION.
- 11. THE CONTRACTOR SHALL REVEGETATE ALL DISTURBED AREAS WITHIN 21 DAYS OF SUBSTANTIAL GRADING COMPLETION. EROSION CONTROL SHALL BE INSTALLED AND MAINTAINED IN A FUNCTIONAL MANNER AT ALL TIMES. DEVELOPER IS RESPONSIBLE FOR MAINTAINING DISTURBED AREAS UNTIL REVEGETATION IS COMPLETE.
- 12. TYPE M RIP-RAP WITH 4" OF TYPE II GRANULAR BEDDING AND MIRIFI 180N OR EQUAL MAY BE SUBSTITUTED WHERE TYPE L RIP-RAP WITH MIRIFI FW 700 OR EQUAL IS SPECIFIED.
- 13. ALL MATERIALS AND INSTALLATION PRODECURES SHALL BE IN COMPLIANCE WITH ANY AND ALL APPLICABLE EL PASO COUNTY STANDARDS AND WITH PAINT BRUSH HILLS METRO DISTRICT CONSULTING ENGINEER APPROVAL.
  14. ALL WATER MAINS SHALL BE AWWA C900-SDR18 PVC WITH PUSH-ON SINGLE GASKET TYPE JOINTS.
- 15. ALL WATER MAIN FITTINGS SHALL BE MADE FROM GRAY-IRON OR DUCTILE IRON AND FURNISHED WITH MECHANICAL JOINT ENDS. ALL FITTINGS SHALL HAVE A PRESSURE RATING OF 250 PSI.
- 16. ALL WATER LINE BENDS, TEES, BLOW-OFFS AND PLUGS AT DEAD-END MAINS SHALL BE PROTECTED FROM THRUST BY USING CONCRETE THRUST BLOCKS AND/OR RODDING AND RESTRAINED PIPE PER THE PAINT BRUSH HILLS METRO DISTRICT CONSULTING ENGINEER APPROVAL.
- 17. MAXIMUM DEFLECTION OF 8" & 12" PVC WATER MAIN JOINTS IS 4 DEGREES. CORRESPONDING MINIMUM CURVE RADIUS IS 286'. ADDITIONAL 11.25" OR 22.5" BENDS MAY BE REQUIRED FOR PROPER ALIGNMENT.
- 18. CONTRACTOR IS RESPONSIBLE FOR PROVIDING DETAILED AS-BUILTS OF ALL WATER MAIN, STORM SEW AND SAN. SEW. MAIN INSTALLATIONS, INCLUDING ACCURATE DISTANCES OF MAIN LINES, VALVES, FITTINGS, MANHOLES AND LOCATIONS OF WATER AND SEWER SERVICES.
- 19. SANITARY SEWER PIPE AND FITTINGS: PVC 4"-8" ASTM D3034, TYPE PSM, SDR 35: PUSH-ON JOINTS AND MOLDED RUBBER GASKETS MAXIMUM HORIZONTAL DEFLECTION, AFTER INSTALLATION AND BACK FILLING SHALL NOT EXCEED 3% OF THE PIPE DIAMETER. (MINIMUM CURVE RADIUS IS 100' FOR 8" PVC SAN. SEW. MAIN.

#### 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 SOILS AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING:
  - a. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM) b. CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2
  - C. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION d. 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 VERSION 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 ON-SITE AND OFF-SITE, 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 AND 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. 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 AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED WITHIN SIGHT TRIANGLES.
- 13. SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS AND MUTCD CRITERIA.
- 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.
   THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS 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.

### **BENCHMARKS**

- I. SOUTH  $\frac{1}{4}$  CORNER OF SECTION 26, TOP OF 2  $\frac{1}{2}$ " ALUMINUM CAP. ELEV. =7140.91 VERTICAL DATUM = NGVD 1929
- 2. SOUTHWEST CORNER OF SECTION 25, TOP OF 3  $\frac{1}{4}$ " ALUMINUM CAP. ELEV. = 7136.34 VERTICAL DATUM = NGVD 1929

### BASIS OF BEARINGS:

THE NORTH LINE OF SAID TRACT E , SAID LINE ALSO BEING THE NORTH LINE OF THE NORTHEAST QUARTER OF SECTION 26, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN, EL PASO COUNTY, COLORADO, BEING MONUMENTED AT THE NORTHWEST CORNER WITH A 2-1/2" ALUMINUM CAP STAMPED "PLS 4842" AND AT THE NORTHEAST CORNER WITH A 2-1/2" ALUMINUM CAP STAMPED "PLS 4842". SAID LINE IS ASSUMED TO BEAR N88'44'51"E A DISTANCE OF 2640.24 FEET. THE UNIT OF MEASUREMENT IS U.S. SURVEY FEET.

![](_page_25_Figure_42.jpeg)

Add the following note to the construction plans. This note was from the Filing 13E construction drawings.

UNDERDRAIN NOTE:

6" UNDERDRAIN TO BE INSTALLED

ADJACENT TO SANITARY SEWER MAINS IF

NEEDED IN THE FUTURE, DEVELOPER IS RESPONSIBLE FOR INSTALLATION OF UNDERDRAIN BEHIND CURB AND SIDEWALK.

RECOMMENDED BY GEOTECHNICAL ENGINEER. IF NO UNDERDRAIN IS INSTALLED AND IS

• ///

FI SCTRIC DEPARTMENT:

GAS DEPARTMENT:

EPHONE COMPANY:

#### APPROVALS:

ENGINEER'S STATEM

DETAILED CONSTRUCT THESE DETAILED PLANS AN HAVE BEEN PREPARED ACC DETAILED PLANS AND SPEC SPECIFICATIONS MEET THE CAUSED BY ANY NEGLIGEN

VIRGIL A SANCHEZ, CO FOR AND ON BEHALF

#### OWNER/DEVELOF

1, THE OWNER/DEVELOPER

MR. JEFF MARK THE LANDHUIS COMPAN

#### PAINT BRUSH HI

THESE CONSTRUCTION DOC CONSTRUCTION.

FOR AND ON BEHALF

#### FALCON FIRE PR

ALL FIRE HYDRANTS SHA HYDRANTS AND HYDRANT PROTECTION REQUIREMENT

FOR AND ON BEHALF OF

#### NOTE:

THE CONTRACTOR SHALL TIE-IN/CONNECTIONS TO CONSTRUCTION. ANY DIS MEASURED ELEVATIONS THE ENGINEER AND A R

![](_page_25_Figure_61.jpeg)

RACE MANOR DRUK SITE MAP

# SHEET INDEX

SHEET 24 DETAIL SHEET

SHFFT 1	TITLE SHEET				
SHEET 2	SANITARY SEWER – SANITARY OUTFALL	STA	1+00.00	TO	3+84.60
	KEYNES DRIVE	STA	1+00.00	TO	8+00.00
SHEET 3	SANITARY SEWER – KEYNES DRIVE	STA	8+00.00	TO	21+50.00
SHEET 4	SANITARY SEWER - KEYNES DRIVE	STA	21+50.00	TO TO	25+61.12
	KINGSBURY DRIVE	SIA	1+00.00		8+50.00
SHEEL D	SANITART SEWER - KINGSBURT DRIVE	STA	0+50.00 $1\pm00.00$		1/+40.19
SHEET 7	SANITART SEWER - COUNTRT MANOR DRIVE	ATC AT2	1+00.00 $14\pm00.00$		17+80.00
SHELI /	HARTWOOD DRIVE	STA	1+00.00	TO	7+50.00
SHEET 8	SANITARY SEWER - HARTWOOD DRIVE	STA	7+50.00	TÕ	15+89.51
	GRACE MANOR DRIVE	STA	1+00.00	TO	4+16.96
SHEET 9	SANITARY SEWER – DEVONCOVE DRIVE	STA	4+30.00	TO	19+69.76
SHEET 10	SANITARY SEWER – FINSBURY COURT	STA	1+00.00	TO	6+32.40
SHEET 11	SANITARY SEWER – WATERLOO DRIVE	STA	1+00.00	TO	11+50.92
SHEET 12	WATER SYSTEM DI AN				
SHEET 1.3	WATER SYSTEM PLAN				
SHEET 14	WATER SYSTEM PLAN				
SHEET 15	WATER SYSTEM PLAN				
SHEET 16	WATER SYSTEM PLAN				
SHEET 19	UTILITY SERVICE PLAN				
SHEET 10	UTILITY SERVICE PLAN				
SHEET 20	UTILITY SERVICE PLAN				
SHEET 21	UTILITY SERVICE PLAN				
SHEET 22	DETAIL SHEET				
SHEET 23	DETAIL SHEET				

N.T.S.

		- I		
THE LANDHUIS COMPANY 212 N. WAHSATCH AVE, SUITE 301 COLORADO SPRINGS, CO 80903 JEFF MARK (719) 635–3200 M & S CIVIL CONSULTANTS, INC. 20 BOULDER CRESCENT, SUITE 110 COLORADO SPRINGS, CO 80903 VIRGIL A. SANCHEZ P.E. (719) 955–5485 EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT 2880 INTERNATIONAL CIRCLE, SUITE 110 COLORADO SPRINGS, CO 80910 MR. GILBERT LAFORCE (719) 520–7945 PAINT BRUSH HILLS METRO DISTRICT 9830 LIBERTY GROVE DR. FALCON, CO 80831 MR. LEON GOMES (719) 495–8188 FALCON FIRE PROTECTION DISTRICT 7030 N. MERIDIAN RD. FALCON, CO 80831 CHIEF HARWIG (719) 495–4050 BLACKHILLS ENERGY 37 WIDEFIELD BOULEVARD, WIDEFIELD, COLORADO 80911 MR GEORGE M. PETERSON (719) 392–3491		PAINT BRUSH HILLS FILING NO. 14	PROJECT NO. 10-014 SCALE: DATE: 06/25/2020	DESIGNED BY: JWP N/A DRAWN BY: SM VERTICAL: SHEET 1 OF 24 WTO1 CHECKED BY: GW N/A
MOUNTAIN VIEW ELECTRIC P.O. BOX 1600 LIMON, CO 80828 MR. LES ULFERS, (719) 495–2283 CENTURY LINK (LOCATORS) 811 AT&T (LOCATORS) 811 Include County Standard Signat	ture Block	20 BOULDER CRESCENT, SUITE 110	CULURADU 3FRINGS, CU 60703 PHONE: 719.955.5485	
<b>MENT:</b> TON PLANS AND SPECIFICATIONS ENGINEER'S STATEM ND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SU CORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DET CIFICATIONS ARE IN CONFORMITY WITH THE MASTER PLAN OF THE PURPOSES FOR WHICH THE PARTICULAR DRAINAGE FACILITY(S) IS IT ACTS, ERRORS, OR OMISSIONS ON MY PART IN PREPARATION O	MENT: UPERVISION. SAID DETAILED PLANS AND SPECIFICATIONS TAILED DRAINAGE PLANS AND SPECIFICATIONS, AND SAID DRAINAGE BASIN. SAID DETAILED DRAINAGE PLANS AND DESIGNED. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY OF THE DETAILED IMPROVEMENT PLANS AND SPECIFICATIONS.			IL CONSULTANTS, INC.
DLORADO P.E. NO. 37160 OF M&S CIVIL CONSULTANTS, INC. PER STATEMENT: R HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS SPECIFI	DATE ED IN THESE DETAILED PLANS AND SPECIFICATIONS	37160	FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.	CV
NY, PRESIDENT LLS METROPOLITAN DISTRICT: CUMENTS HAVE BEEN REVIEWED AND APPROVED FOR SANITARY SEV	DATE	VIRGIL A. SANCHEZ, COLORADO P.E. NO. 3		
OF PAINT BRUSH HILLS METRO. DISTRICT	DATE	APRV'D. BY: DATE:		D CHANGES TO OR VED BY THE PREPARER
OTECTION DISTRICT LL BE INSTALLED ACCORDING TO THE FALCON FIRE PROTECTIO LOCATIONS AS SHOWN ON THIS WATER INSTALLATION PLAN A TS AS SPECIFIED BY THE FALCON FIRE PROTECTION DISTRICT.	ON DISTRICT SPECIFICATIONS. THE NUMBER OF FIRE RE CORRECT AND ADEQUATE TO SATISFY THE FIRE			R LIABLE FOR, UNAUTHORIZE RITING AND MUST BE APPRO
FALCON FIRE PROTECTION DISTRICT	DATE	NS: ATE: BY: DESCRIPTION:		ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE, O S OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WF IHESE PLANS.

48 HRS BEFORE YOU DIG CALL 1-800-922-1987

SANITAR	Υ	SEWER	l	LINE	Т
Line #	Le	ength		Direc	ti

![](_page_26_Figure_1.jpeg)

TABLE	SANITARY SEWER CURVE TABLE							
ion	Curve #	Length	Radius	Delta				
	C2	40.20	300.00	7.68				
	C3	176.24	300.00	33.66				

![](_page_26_Figure_4.jpeg)

	7005									
	/225									
	7220									
	7215									PROPOSEI GRADE @
	7210									,
	7210					14	8.25 LF ~ 8" P	VC @ 1.83%		40.20 8" PVC @
	7205									VC @ 1.83%
	7200								.5 9.52	
	7195								PT STA 4- EL=7205.2	
						DIA MH )=7208.27 (W)=7207.97	4 // XING 7214.20 208.34			
						STA 2+61.27 SS MH-1, 5' RIM=7220.76 INV IN (8") (N INV OUT (8") (1 CUT=12.8	STA 2+80.94 24" RCP STM BOP (STM)= TOP (SS)=72 CLR=5.86'			
		1+	00	2+	00	3+ <b>KEY</b>	-00 <b>'NES DRI</b> '	4+ VE STA 1	-00 <b>+00.00 T</b>	O STA 8

![](_page_27_Figure_0.jpeg)

![](_page_27_Figure_2.jpeg)

![](_page_28_Figure_0.jpeg)

**19** (10575)

		1+00	2+00	3+00 KING	4+00 SSBURY DRIVE ST	5+0 <b>A 1+00.00 T</b>	0 <b>0 STA</b>
		STA 1+00.00 STA 1+00.00 SS MH-2, 5' DIA MH RIM=7215.01 INV IN (8") (E)=7202.92 INV OUT (8") (N)=7202.92 INV OUT (8") (W)=7202.62 CUT=12.4	STA 1+10.05 STA 1+10.05 8" PVC WTR XING BOP (WTR)=7207.52 TOP (SAN)=7203.80 CLR=3.72'	SIA 2+44.38 24" RCP STM XING BOP (STM)=7211.14 TOP (SS)=7205.83 CLR=5.32' CLR=5.32'		STA 4+50.00 SS MH-9, 4' DIA MH RIM=7220.44 INV IN (8") (N)=7208.49 INV OUT (8") (S)=7208.19 CUT=12.3	
35	7200						
40	7205			350.00 LF ~ 8" PVC @ 1.51%			
45	7210						
50	7215						
55	7220			POSED DE @ CL	STING DUND @ CL		
60	7225						
65	7230						

# **KINGSBURY DRIVE**

![](_page_28_Figure_4.jpeg)

SANITARY SEWER LINE TABLE							
ne #	Length	Direction					
L1	400.00	N0°35'00.00"W					
L2	323.13	N0°35'00.00"W					
L3	350.00	N0°35'00.00"W					
L4	350.00	N0°35'00.00"W					
L5	350.00	N0°35'00.00"W					

![](_page_29_Figure_0.jpeg)

![](_page_29_Figure_1.jpeg)

РМ

	SANITARY SEWER LINLine #LengthL1350.00L2350.00L3321.19	E TABLE ection N0'35'00'W N0'35'00'W N0'35'00'W			<image/>	FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES FOR BURIED UTILITY INFORMATION <b>48 HRS BEFORE YOU DIG</b> CALL 1-800-922-1987 1" = 50' 1" = 50' 0 25 50 100 Scale in Feet	PAINT BRUSH HILLS FILING NO. 14 SANITARY SEWER PLANS	In the control of the
191     190       (10240)     (10258)       S MH-11     (10258)       S MH-11+50     STALL 1-4' DIA MH	189     188       (10276)     (10294)       PROP 48"     EPC TYPE C       RCP STM     C&G	<b>187 186</b> (10330)	185     184       (10348)     (10366)       SS MH-13     STA 17+4       INSTALL 1	<b>183</b> (10384) <b>3A</b> 46.19 1-4' DIA MH			IT, SUITE 110 CO 80903	C D DE
= = = = = = = = = = = = = = = = = = =	E = = = = = = = = = = = = = = = = = = =		= = = = = = = = = = = = = = = = = = =				3 BOULDER CRESCEN OLORADO SPRINGS, HONE: 719.955.5485	
,00°01 ,00°00 ,00°00 ,00°00 ,00°00 ,00°00 ,00°00 ,00°00 ,00°00 ,00°00 ,0	<b>176</b> (10277) SS MH-12 STA 15+0 INSTALL 1 (10295)	2 00 -4' DIA MH 178 (10313) (10331) (10331)	<b>180 181</b> (10349) (10367)	<b>182</b> (10385)				L CONSULTANTS, INC.
	<u>KINGSBURY D</u> STA 8+50.00 TO STA	<u>RIVE</u> <u>A 17+46.19</u>					NO. 37160 FOR AND ON BEHALF OF M&S CIVIL	CONSULIANIS, INC.
		PROPOSED GRADE @ CL				7260	VIRGIL A. SANCHEZ, COLORADO P.E.	
	7235		EXISTING GROUND @ CL			7250	D. BY: DATE:	MGES TO OR Y THE PREPARER
8" PVC @ 4.41%			," PVC @ 2.70%			7245	APRV	UNAUTHORIZED CHA IST BE APPROVED BY
350.00 LF ~ 0	7225	A. 41%	46.19 LF ~ 8" FV			7240		ile, or liable for, in writing and mu
	7235 350.00 LF	~ 8" PVC				7235		- NOT BE RESPONSIE HE PLANS MUST BE
7222.28		A MH 7238.01 )=7237.71		A - MH = 7244.66		7230	:NOIT19	; THESE PLANS WILL ALL CHANGES TO T
INV IN (8") (N)=7 INV OUT (8") (S)= CUT=12.1	7225	STA 15+00.00 SS MH-12, 4 <sup>7</sup> DI, RIM=7250.10 INV IN (8") (N)= INV OUT (8") (S) CUT=12.4		STA 17+46.19 SS MH - 13A, 4' DH RIM=7257.07 NV OUT (8") (S)= CUT=12.4		7225	S:	NGINEER PREPARING OF THESE PLANS. ESE PLANS.
12+00 13+ <b>KINGSB</b>	00 14+00 BURY DRIVE STA 8+50	15+00 .00 TO STA 17+46.19	16+00 17+	-00 18+00	19+00	I	REVISION NO. DAI	U SHOW

SANITARY SEWER LINE TABLE						
Line #	Length	Direction				
L1	350.00	N0°35'00"W				
L2	350.00	N0°35'00"W				
L3	321.19	N0°35'00"W				

![](_page_30_Figure_0.jpeg)

AM

SANITARY SEWER LINE TABLE         Line #       Length       Direction         L2       350.00       N0'35'00"W         L3       350.00       N0'35'00"W         L4       350.00       N0'35'00"W		<image/> <image/> <text></text>	FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES FOR BURIED UTILITY INFORMATION 48 HRS BEFORE YOU DIG CALL 1-800-922-1987 1" = 50' 1" = 50' 0 25 50 100 Scale in Feet	PAINT BRUSH HILLS FILING NO. 14       SANTARY SEWER PLANS       PROJECT NO. 10-014       DESIGNED BY:       SM       Timeson       DESIGNED BY:       SM       DESIGNED BY:       <
154 (10098)         153 (10116)         152 (10134)         151 (10152)         150 (10170)         149 (10188)	148         147         146         145         144           10206)         (10224)         (10242)         (10260)         (10278)	143 (10296)		CRESCENT, SUITE 110 1 SPRINGS, CO 80903 1955.5485
PROP 8"	INSTALL 1-4' DIA MH			20 BOULDER COLORADC PHONE: 719
6+00 L2 7+00 8+00 9+00 L3 10+0 COUNTRY MANOR DRIVE	11+00 12+00 L4 13+00 L4 13+00	14 <b>+ + + + + + + + + + + + + + + + + + +</b>		LS, INC.
PROP 8" PVC WTR PVC WTR O O O O O O O O O O O O O		ы N N		
121 (10099)         122 (10117)         123 (10135)         124 (10153)         125 (10171)         126 (10189)	127 10207)128 (10225)129 (10243)130 (10243)131 (10261)	<b>132</b> (10297)		CONS
<u>STA 1+00.00 TO STA 14+00.00</u>			COLORADO P.E. NO. 37160	FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS INC.
EXISTING			ZANCHEZ	
			7250	
		SHEET	7245	GES TO OR
- EXISTING 350.00 LF ~ PVC @ 2.56% GROUND G 7220	CL PROPOSED GRADE @ CL	L SEE	7240	APRV'D APPROVED BY
350.00 LF ~ 8" PVC @ 2.25%		14+00	7075	LE FOR, UNAUT
	Image: state         Image: state<	PVC @ 2.67%	7255	IBLE, OR LIABI
			7230	T BE RESPONS
	0.00 LF ~ 8" PVC @ 2.	₩ ₩	7225	LANS WILL NO'
A 7+82.79 MH-15, 4 DIA MH = 7231.54 DIA MH = 7231.68 (S)=7219.78 T=12.0	A 11+32.79 MH-16, 4 <sup>1</sup> DIA MH =7241.01 HN (8 <sup>1</sup> ) (N)=7229.33 HN (8 <sup>2</sup> ) (N)=7229.03 T=12.0		7220	BY: DESCRIPTION: BY: DESCRIPTION: EER PREPARING THESE P HESE PLANS. ALL CHAN PLANS.
6+00       7+00       8+00       9+00         COUNTRY MANOR DRIVE STA 1+00.00 TO STA 14+00.00	bill     bill       10+00     11+00       12+00	13+00 14+00	REVISIONS:	NOILTHE ENGIN

SANITARY SEWER LINE TABLE					
Line #	Length	Direction			
L2	350.00	N0°35'00"W			
L3	350.00	N0°35'00"W			
L4 350.00		N0°35'00"W			

SANITAR	Y SEWER	CURVE T	ABLE
urve # Length		Radius	Delta

SANITARY SEWER LINE TABLE					
Line #	Length	Direction			
L3	173.68	N0°35'00"W			
L4	337.56	N0°35'00"W			
L1	350.00	N0°35'00"W			
L2	306.82	N0°35'00"W			

![](_page_31_Figure_1.jpeg)

SANITARY SEWER CURVE TABLE         Curve #       1 lergth         Rodus       Deta         Curve #       1 lergth         Rodus       Deta         V       132.00         V       V         V       1000-	PAINT BRUSH HILLS FILING
Image: State of the set	.E. NO. 37160         FOR AND ON         FOR AND ON         BEHALF OF         Mess CIVIL         CONSULTANTS, INC.         DOUDER CRESCENT, SUITE 110         CONSULTANTS, INC.
7245     7245     Image: Constraint of the second s	7245 COLORADO F 7240 IIGIL A. SANCHEZ, COLORADO F
7235     8       7230     1	7235 7230 7230 7230
1     7225     1 <th1< th="">     1     1&lt;</th1<>	7225 7220 7220 7220
7         7         7         7           7         7         7         7         7           7         7         7         7         7           7         7         7         7         7           7         7         7         7         7           7         7         7         7         7           7         7         7         7         7           7         7         7         7         7           7         7         7         7         7           7         7         7         7         7           7         7         7         7         7           7         7         7         7         7           7         7         7         7         7           7         7         7         7         7           7         7         7         7         7           7         7         7         7         7           7         7         7         7         7           7         7         7         7         7	DATE: BY: DESCRIPTION: DATE: BY: DESCRIPTION: DATE: BY: DESCRIPTION: CES OF THESE PLANS WILL NO ES OF THESE PLANS. ALL CHANGES TO THE F THESE PLANS.

![](_page_31_Figure_5.jpeg)

SANITARY SEWER CURVE TABLE					
Curve #	Length	Radius	Delta		
C1	132.55	300.00	25.32		

![](_page_32_Figure_0.jpeg)

# HARTWOOD DRIVE STA 7+50.00 TO STA 15+89.51

SANITAR	Y SEWER	CURVE T	ABLE
Curve #	Length	Radius	Delta
C1	66.72	295.00	12.96

RY SEWER	LINE TABLE
Length	Direction
337.56	N0°35'00"W
305.00	N0°35'00"W
245.00	N0°35'00"W
245.00	N0°35'00"W
250.25	N89°25'00"E
	RY         SEWER           Length         337.56           305.00         245.00           245.00         245.00           250.25         305.02

![](_page_32_Figure_4.jpeg)

ile: C: \Users\cpierce\Documents\10014A-PBH 14\PBH 14\dwg\Const Dwg\Sanitary\SS08.dwg Plotstamp: 6/29/2020 3:3

![](_page_32_Figure_6.jpeg)

									•			
	PROPOSED GRADE @ CL											
							Ó					
							Ŭ					
				245.00 LF	~ 8" PVC @ 1.	74%						
_												
	7.0%											
3" PVC @ 3	.537											
										1		
										v	-== 0.25	LF~8"PVC
											250.24	
			02 1.72					58 6.28 6.28		88 88 7.58		
			=7242. S)=724			XING	250.34 16.79	= 7246. (M)= 724 (S)= 724		DIA MH =7227. =7227. S)=722	XING 233.11 28.84	
		44.51 31 4 <sup>3</sup> [	4.12 8") (N) 4 (8") (()			5+76.76 55 STM	STM)=7 SS)=72 56' 89.51	6 (8") (E) (8") (E) (5) (5) (5) (5) (6) (6) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	00.00	20, 5 <sup>'</sup> 8.9.58 8") (N) (8") (E) 0	+ 10.00 C WTR MTR) = 7 SS) = 72 .27'	
		TA 13+	IM=725 IV IN ( IV OUT UT=12.			STA 15 42" RO	BOP (5 TOP (5 CLR=3. TA 15+	UT=13.(	TA 1+0	S MH- IM=723 VV IN ( VV IN ( VV OUT UT=12.	STA 1. 8" PV( BOP (' 10P (; CLR=4	
	134	تران 00+	14- 14-	⊢00	15-	-00	ٽ <u>ا</u> بن	$n \alpha \leq \leq \leq \bigcirc$	ن ۱+	00 00	2+	00
50.00 T	O STA 15	5+89.51										GRAC

![](_page_33_Figure_0.jpeg)

![](_page_34_Figure_0.jpeg)

![](_page_34_Figure_1.jpeg)

SANITAF	RY SEWER	LINE TABLE
Line #	Length	Direction
L1	66.14	N46°30'00"E
L2	235.00	N73°00'00"E

SANITARY SEWER CURVE TABLE					
Curve #	Length	Radius	Delta		
C1	231.26	500.00	26.50		

## FINSBURY COURT STA 1+00.00 TO STA 6+32.40

<image/> <image/>		PAINT BRUSH HILLS FILING NO. 14SANTARY SEWER PLANSSANTARY SEWER PLANSPROJECT NO. 10-014DESIGNED BY:SCALE: HORIZONTAL: 1"=50'DESIGNED BY:SM TI"=50'CHECKED BY:SM TI"=50'CHECKED BY:SM TI"=50'CHECKED BY:SM TI"=50'DRAWN BY:SM TI"=50'CHECKED BY:SM TI"=50'DRAWN BY:TI"=50' <tr< th=""></tr<>
		20 BOULDER CRESCENT, SUITE 110 20 BOULDER CRESCENT, SUITE 110 COLORADO SPRINGS, CO 80903 PHONE: 719.955.5485 PHONE: 719.955.5485
		E. NO. 37160 FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.
	7275	RGIL A. SANCHEZ, COLORADO P.
	7265	APRV'D. BY: DATE: APRV'D. BY: DATE: APRVED BY THE PREPARER
	7255	SIBLE, OR LIABLE FOR, UNAUTHO
	7250	I: SE PLANS WILL NOT BE RESPONS CHANGES TO THE PLANS MUST E
		REVISIONS: NO. DATE: BY: DESCRIPTION ENDINE BY: DESCRIPTION THE ENGINEER PREPARING THES USES OF THESE PLANS. ALL C OF THESE PLANS. ALL C

SANITARY SEWER LINE TABLE					
Line #	Length	Direction			
L1	244.43	S89°25'00"W			
L3	76.65	N52°13'02"E			
L4	45.21	N73°17'32"E			
L5	195.67	N89°36'37"E			

SANITARY SEWER CURVE TABLE						
Curve #	Length Radius Delta					
C1	100.00	300.00	19.10			
C3	110.35	300.00	21.08			
C4	113.92	400.00	16.32			

![](_page_35_Figure_2.jpeg)

![](_page_35_Figure_3.jpeg)

46 (10792) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<image/>	FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES FOR BURIED UTILITY INFORMATION <b>48 HRS BEFORE YOU DIG</b> CALL 1-800-922-1980 1" = 50' 0 25 50 100 Scale in Feet	DER CRESCENT. SUITE 110 PAINT BRUSH HILLS FILING NO. 14	ADO SPRINGS, CO 80903 719.955.5485 SANITARY SEWER PLANS	PROJECT NO. 10-014SCALE: DATE:DATE:06/25/2020DESIGNED BY:SM1"=50'I"=50'I"=50'I"=50'DRAWN BY:SMVERTICAL:VERTICAL:SHEET110F24CHECKED BY:GW1"=5'I"=5'SHEET110F24
		7260	IL A. SANCHEZ, COLORADO P.E. NO. 37160	FOR AND ON BEHALF OF PHONE: 7	M&S UVIL CONSULTANTS, INC.
2.8" PVC @ 0.50% .8" PVC @ 0.50% .11+20 .12+		1       7255         1       7250         1       7245         1       7240         1       7235         1       7230         1       7230	IONS: DATE: BY: DESCRIPTION: APRV'D. BY: DATE: APRV'D. BY: DATE:		HE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR SES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER THESE PLANS.

![](_page_36_Figure_0.jpeg)

![](_page_36_Picture_1.jpeg)

![](_page_36_Figure_3.jpeg)

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![](_page_37_Figure_0.jpeg)

![](_page_37_Picture_1.jpeg)

![](_page_37_Figure_4.jpeg)

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![](_page_38_Figure_0.jpeg)

![](_page_38_Figure_2.jpeg)

CAUTIO

-REMOVE EX 8" PLUG CONNECT PROP 8" WTR MAIN

![](_page_39_Figure_0.jpeg)

![](_page_39_Figure_2.jpeg)

![](_page_40_Picture_1.jpeg)

![](_page_40_Figure_2.jpeg)

![](_page_40_Figure_3.jpeg)

CAUTIO

WATER LINE TABLE					
Line # Length Direction					
L25	273.00	S0°35'00"E			
L26	32.00	S0°35'00"E			
L27	300.00	S0°35'00"E			
L28	221.23	S0°35'00"E			
L47	240.25	N89°25'00"E			
L48	38.19	S64°40'00"E			

<u>key map</u>

SCALE: NTS

FBC

KND

DCD

KBD

CMD

WLD

ΗWD

GMD

ΕX

SS

SHT

WΤ

EPC

C&G

ROW

EOP

ΗYD

ΤΥΡ

ST

CLR

FUTURE WATER

PROPOSED WATER

PLUG (PROPOSED)

RIGHT-OF-WAY

PROPERTY LINE

CENTERLINE

LOT ADDRESS

LOT ADDRESS

MATCHLINE

XING

PROP

WATER CURVE TABLE						
Curve #	e # Length Radius Delta					
C9	132.90	290.00	26.26			
C21	63.97	305.00	12.02			
C22	73.99	305.00	13.90			

![](_page_41_Figure_0.jpeg)

![](_page_41_Picture_1.jpeg)

![](_page_41_Figure_5.jpeg)

- 7. RE-USE OF ANY MATERIAL IS LEFT TO THE DISCRETION OF THE DISTRICT.
- 8. ALL WATER MAIN FITTINGS SHALL BE STAKED PRIOR TO CONSTRUCTION. 9. ALL FIRE HYDRANTS TO BE 6.5' BURY DEPTH UNLESS OTHERWISE NOTED.
- 10. ALL SEWER SERVICES TO BE INSTALLED AT MINIMUM PERMISSIBLE GRADE UNLESS
- OTHERWISE APPROVED BY THE CONSTRUCTION MANAGER. 11. HOMEBUILDER'S SHALL DETERMINE THE SEWER SERVICE ELEVATION PRIOR TO BASEMENT
- EXCAVATION AND SETTING OF FINISHED FLOOR FOR HOUSE. 12. MODIFY WATER AND SEWER SERVICE TAP LOCATIONS TO AVOID DRIVEWAYS.
- CAUTIO

pierce\Documents\10014A-PBH 14\PBH 14\dwg\Const Dwg\UTILITY SERVICE\US01-US05.dwg Plotstamp: 6/29/2020

![](_page_42_Picture_1.jpeg)

![](_page_42_Figure_2.jpeg)

![](_page_42_Figure_3.jpeg)

![](_page_42_Figure_4.jpeg)

![](_page_43_Figure_0.jpeg)

![](_page_43_Figure_2.jpeg)

![](_page_44_Figure_0.jpeg)

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![](_page_45_Picture_1.jpeg)

![](_page_45_Figure_2.jpeg)

![](_page_45_Figure_3.jpeg)

### GENERAL NOTES:

1. ALL VALVES SHOWN FOR SCHEMATIC PURPOSES ONLY. NO VALVES SHALL BE INSTALLED IN CURB AND GUTTER OR CROSSPANS.

![](_page_45_Figure_6.jpeg)

![](_page_45_Figure_7.jpeg)

### NOTES:

- DIMENSIONS SHOWN ARE TYPICAL UNLESS OTHERWISE NOTED ON PLANS.
   SEE PAINT BRUSH HILLS METRO DISTRICT SPECS. FOR TAPPING SADDLE DETAIL.
- 3. FINAL LOCATION OF ALL SEWER, WATER AND GAS SERVICES TO BE APPROVED IN THE
- FIELD BY THE CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
- 4. PROPERTY END OF ALL SEWER SERVICES TO BE MARKED WITH A 12'X2"X4" POST EXTENDING VERTICALLY OUT OF THE GROUND 36" FROM FLOWLINE.
- 5. WATER SERVICES NOT INSTALLED IN THE SAME TRENCH WITH SEWER SERVICE TO BE
- MARKED WITH A 6'X2"X4" POST EXTENDING 4' BELOW FINISH GRADE.
- 6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE DISTRICT AND COORDINATE ANY INTERRUPTION TO EXISTING WATER SERVICE.
- 7. RE-USE OF ANY MATERIAL IS LEFT TO THE DISCRETION OF THE DISTRICT.
- 8. ALL WATER MAIN FITTINGS SHALL BE STAKED PRIOR TO CONSTRUCTION.
- 9. ALL FIRE HYDRANTS TO BE 6.5' BURY DEPTH UNLESS OTHERWISE NOTED. 10. ALL SEWER SERVICES TO BE INSTALLED AT MINIMUM PERMISSIBLE GRADE UNLESS
- OTHERWISE APPROVED BY THE CONSTRUCTION MANAGER. 11. HOMEBUILDER'S SHALL DETERMINE THE SEWER SERVICE ELEVATION PRIOR TO BASEMENT EXCAVATION AND SETTING OF FINISHED FLOOR FOR HOUSE.
- 12. MODIFY WATER AND SEWER SERVICE TAP LOCATIONS TO AVOID DRIVEWAYS.

NO. 14	NS	8/2018	F 24 UT05
HILLS FILING	SERVICE PLA	E: DATE: 06/28	N SHEET 21 0
PAINT BRUSH		PROJECT NO. 10-014 SCALE	DESIGNED BY: GW TUCKLUN DRAWN BY: SM VERTIC/ CHECKED BY: GW N/A
20 BOULDER CRESCENT, SUITE 110	COLORADO SPRINGS, CO 80903 PHONE: 719.955.5485		(i
			CIVIL CONSULTANTS, INC
NO. 37160	FOR AND ON BEHALF OF	M&S CIVIL CONSULTANTS, INC	2
VIRGIL A. SANCHEZ, COLORADO P.E. 1			
APRV'D. BY: DATE:			ED CHANGES TO OR VVED BY THE PREPARER
BY: DESCRIPTION:			L SINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE, OR LIABLE FOR, UNAUTHORIZE THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROV TE PLANS.
REVISIONS NO. DATE			CAUTION

![](_page_46_Figure_0.jpeg)

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EQUAL ON MECHANICAL JOINT ON PUSH ON JOINT PIPE. IRON OR EQUAL					NTS
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		37160	FOR BEH		
		NO.			
		DO P.F			
		OLORA			
ED IN THE FIELD		HEZ, C			
R AMR MODULE. SET 2" SOVE GROUND		SANCH			
ALUMINUM PIT COVER WITH ALUMINUM INNER FROST-PROOF LID. SET PLUMB -AND TIGHTLY ON METER PIT. INNER FROST LID MUST BE RECESSED TO		GIL A.			
		DATE:			OR EPARER
METER OUTLET CONNECTION		BY:			ES TO THE PRE
DFW 24"X36" WHITE PVC METER PIT		APRV'D.			ED BY
NEW 1" HOPE OUTLET LINE					HORIZEL APPROV
					UNAUT ST BE
ATTACH NEW PIPE WITH COMPRESSION FITTING, SEE SPECIFICATIONS FOR OTHER MATERIALS					LE FOR, AND MU
					R LIABL
E: ER SETTER SHALL INCLUDE ER ANGLE VALVE ON THE INLET					SIBLE, C 3E IN W
WITH APPROVED BACKFLOW ICE ON OUTLET SIDE.					RESPONS MUST E
					OT BE I PLANS
					WILL N WILL N
					PLANS ANGES
		PTION:			ALL CH,
WETERS	FOR LOCATING & MARKING	DESCRI			EPARING LANS.
	GAS, ELECTRIC, WATER &	BY:			eer pri Hese p Plans.
ter STANDARD SPECIFICATIONS W-35	FOR BURIED UTILITY INFORMATION	ONS: DATE:			E ENGIN ES OF T THESE
	48 HRS BEFORE YOU DIG CALL 1-800-922-1987	REVISI(			
		Z			LAUTION

![](_page_47_Figure_0.jpeg)

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HULM TO AST BE APING D-478. TTEND ST EZD. MAY BE ST SULL BE XXT SE POUR ER SORT		PAINT BRUSH HILLS FILING NO. 14	DETAIL SHEET	PROJECT NO. 10-014SCALE: DESIGNED BY: JWP HORIZONTAL: DRAWN BY: SM VERTICAL: SMDATE: 06/25/2020 O6/25/2020DESIGNED BY: JWP DRAWN BY: SM CHECKED BY: GWU/ADATE: 23 OF 24UTO7
NOTIN WW-3		20 BOUILDER CRESCENT, SUITE 110	COLORADO SPRINGS, CO 80903 PHONE: 719.955.5485	CIVIL CONSULTANTS, INC.
MAXIMUM_DEFLECTION PER SLIP_JOINT OF D.I.P.           PIPE_DIAMETER         MFRS.           DESIGN_DEFLECTION         APPROX. RADIUS FOR DEFLECTING (80% MAX.)           I.D.         O.D.           (IN)         (IN)           (IN)         (IFT)           4*         4.80°           4*         4.80°           4*         4.00°           575'         500'00°           4*         4.00°           4*         575'           500'00°         16°           15*         286'           6*         9.05°           10°         11.10°           10°         11.00°           10°         11.00°           12*         13.20°           12*         13.20°           12*         13.20°           12*         13.20°           12*         1280'           12*         1280'           12*         1280'		VIRGIL A. SANCHEZ, COLORADO P.E. NO. 37160	FOR AND ON BEHALF OF M&S CIVII	CONSULTANTS, INC.
18"       17.40"       1.430"       300'00"       224'00"       10"       9"       477       430"         20"       21.60"       1.800'       300'00"       224'00"       10"       9"       477       430"         24"       25.80"       2.160'       300'00"       224'00"       10"       9"       477       430"         24"       25.80"       2.160'       300'00"       224'00"       10"       9"       477       430"         30"       32.00"       2.860'       230'00"       224'00"       10"       9"       477       430"         30"       32.00"       2.860'       230'00"       108'00"       8"       7"       572'       516"         30"       32.00"       2.90'00"       136'00"       6"       6"       716'       645"         42"       44.50"       3.706"       200'00"       136'00"       6"       6"       716'       645"         (1)       20'L = NORMAL 20-FOOT JOINT LAYING LENGTH       (2) = NORMAL 18-FOOT JOINT LAYING LENGTH       716'L       645"         (2)       = NORMAL 18-FOOT JOINT LAYING LENGTH       716'L       716'L       716'L       716'L         MAXIMUM PIPELINE DEFLECTION DATA		APRV'D. BY: DATE:		S WILL NOT BE RESPONSIBLE, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER
Revised: Revised: Revised: Revised: Revised: WW-13 W	-14 CATING RKING S, TRIC, R & HONE ES ATION DIG 987	REVISIONS: NO. DATE: BY: DESCRIPTION:		THE ENGINEER PREPARING THESE PLANS USES OF THESE PLANS. ALL CHANGES OF THESE PLANS.

![](_page_48_Figure_0.jpeg)

1000-		NO. 14		2020	24 UT08
TYPICAL VALVE BOX		HILLS FILING	TAIL SHEET	ALE: DATE: 06/25/	A ICAL: SHEET 24 OF
		PAINT BRUSH	DE	CT NO. 10-014 SCA	NED BY: JWP NOT N/ N BY: SM VERTI KED BY: GW N/
<u> </u>		e Crescent suite 110	O SPRINGS, CO 80903 9.955.5485	PROJE	DESIGI
			COLORAD PHONE: 71		FANTS, INC.
WATER SYSTEM W-9					CIVIL CONSULT
		.E. NO. 37160	FOR AND ON BEHALF OF	MAX3 CIVIL CONSULTANTS, INC.	
		VIRGIL A. SANCHEZ, COLORADO P			
E INIMUM MAXIMUM WIDTH WIDTH		APRV'D. BY: DATE:			RIZED CHANGES TO OR PROVED BY THE PREPARER
$\begin{array}{c} 2^{*}-2^{*} & 3^{*}-0^{*} \\ \overline{2^{*}-2^{*}} & 3^{*}-0^{*} \\ \overline{2^{*}-2^{*}} & 3^{*}-0^{*} \\ \overline{2^{*}-6^{*}} & 3^{*}-0^{*} \\ \overline{2^{*}-6^{*}} & 3^{*}-6^{*} \\ \overline{2^{*}-6^{*}} & 3^{*}-9^{*} \\ \overline{2^{*}-2^{*}} & 4^{*}-3^{*} \end{array}$					PONSIBLE, OR LIABLE FOR, UNAUTHC ST BE IN WRITING AND MUST BE AP
		IPTION:			3 THESE PLANS WILL NOT BE RESF ALL CHANGES TO THE PLANS MUS
WATER SYSTEM W-12	FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES FOR BURIED UTILITY INFORMATION 48 HRS BEFORE YOU DIG CALL 1-800-922-1987	REVISIONS: NO. DATE: BY: DESCRI			NOT THE ENGINEER PREPARING USES OF THESE PLANS. OF THESE PLANS.