

N:\PROJECTS\SS RANCH\ENGINEERING\SSHEET SETS\MULTIFAMILY\CDST\6\PARKER WATER AND SANITATION\CONCOVER.DWG, BPWILSON, 7/16/2021 9:52 AM

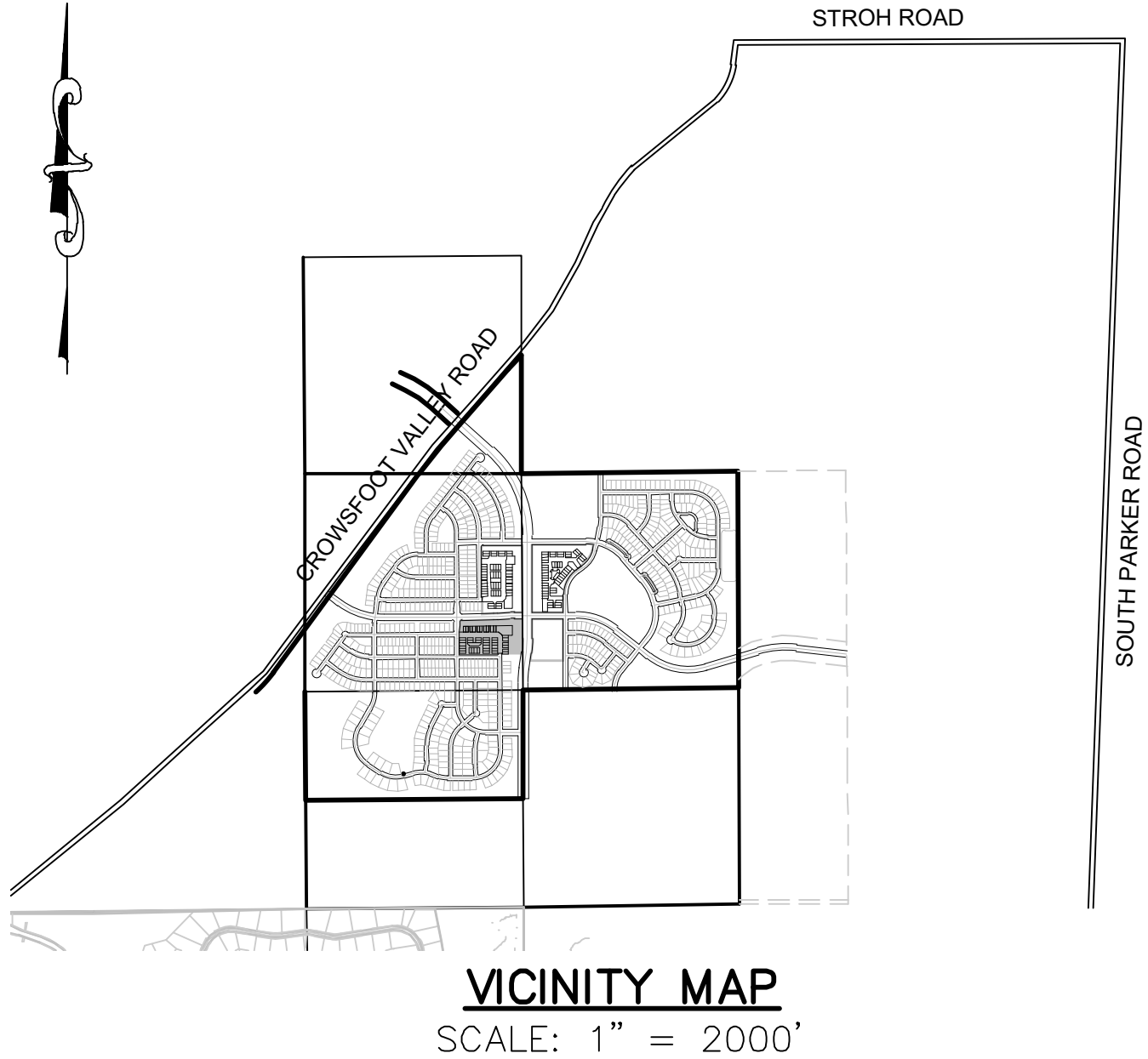
# TRAILS AT CROWFOOT FILING 16

## PARKER WATER AND SANITATION CONSTRUCTION PLANS

SECTIONS 4, 8, AND 9 TOWNSHIP 7 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN COUNTY OF DOUGLAS, STATE OF COLORADO

Sheet List Table

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| 9            | HOP CLOVER TRAIL                  |
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VICINITY MAP  
SCALE: 1" = 2000'

MATERIALS LIST

| DESCRIPTION                                 | QUANTITY | UNIT |
|---------------------------------------------|----------|------|
| 8" SEWER (SDR-35 PVC)                       | 1,184    | L.F. |
| 4' DIA. MANHOLE                             | 7        | EA.  |
| SEWER SERVICE LATERAL W/ WYE TAP            | 32       | EA.  |
| CONNECTION TO EXISTING MAIN                 | 1        | EA.  |
| 6" WATERPIPE (DIP)                          | 55       | L.F. |
| 8" WATERPIPE (PVC)                          | 1,422    | L.F. |
| 6" GATE VALVE W/ BOX                        | 4        | EA.  |
| 8" GATE VALVE                               | 4        | EA.  |
| 8" MISC FITTINGS                            | 12       | EA.  |
| FIRE HYDRANT WITH 6" LEAD                   | 3        | EA.  |
| FIRE HYDRANT WITH VERTICAL SHOE AND 6" LEAD | 1        | EA.  |
| IRRIGATION SERVICE WITH METER (1.5")        | 1        | EA.  |
| DOMESTIC WATER SERVICE WITH METER           | 42       | EA.  |
| CONNECTION TO EXISTING MAIN                 | 4        | EA.  |

### DEVELOPER

HR 935 LLC  
7353 SOUTH ALTON WAY  
CENTENNIAL, CO 80112  
TEL: (303) 770-9111  
CONTACT: MATT JANKE

### PLANNER/ LANDSCAPE DESIGNER:

PCS GROUP, INC.  
200 KALAMATH STREET  
DENVER, CO 80233  
TEL: (303) 531-4905  
CONTACT: JOHN PRESTWICH

### SURVEYOR/ ENGINEER:

CVL, A WESTWOOD  
TEAM  
10333 E. DRY CREEK RD. STE 240  
ENGLEWOOD, CO 80112  
TEL: (720) 482-9526  
CONTACT: JIM JANNICKE

### UTILITY DISTRICT

PARKER WATER AND  
SANITATION DISTRICT  
18100 E. WOODMAN DRIVE  
PARKER, CO 80134  
TEL: (303) 841-4627

#### FIRE DEPARTMENT APPROVAL

ALL FIRE HYDRANTS SHALL BE INSTALLED ACCORDING TO WATER UTILITY STANDARDS. THE NUMBER AND LOCATIONS OF THE FIRE HYDRANTS AS SHOWN ON THE OVERALL UTILITY PLAN ARE CORRECT AS SPECIFIED BY THE TOWN OF PARKER, COMMUNITY DEVELOPMENT DEPARTMENT.

(FIRE CODE OFFICIAL OR DESIGNATED REPRESENTATIVE) \_\_\_\_\_ DATE \_\_\_\_\_

(NOTE: UNDERGROUND FIRE LINE (UFL) SUBMITTAL DOCUMENTS MUST MEET THE REQUIREMENTS OF NFPA24 WHEN SUBMITTING FOR REVIEW.)

THE DISTRICT INSPECTOR MUST BE NOTIFIED AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION. CALL PARKER WATER AND SANITATION DISTRICT AT 303-841-4627. THE DISTRICT WILL PROVIDE PERIODIC INSPECTIONS OF THE WORK. 24 HOUR NOTICE TO THE INSPECTOR IS REQUIRED FOR SCHEDULE INSPECTIONS. ANY WORK ACCOMPLISHED WITHOUT THE APPROVAL OF THE INSPECTOR WILL BE SUBJECT TO REJECTION.

REVIEWED FOR CONFORMANCE TO PARKER WATER AND SANITATION DISTRICT STANDARDS.

BY: \_\_\_\_\_  
(DISTRICT REPRESENTATIVE)

DATE SIGNED: \_\_\_\_\_

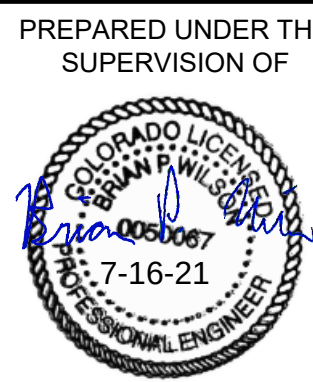
APPROVED FOR CONSTRUCTION:  
PARKER WATER AND SANITATION DISTRICT

BY: \_\_\_\_\_  
(DISTRICT ENGINEER)

DATE SIGNED: \_\_\_\_\_

**BENCHMARK**  
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A 3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

**BASIS OF BEARINGS:**  
THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 9 BEING MONUMENTED AT THE NORTHEAST CORNER OF SAID SECTION 9 BY A 3-1/4" ALUMINUM CAP STAMPED LS 23053 AND AT THE EAST QUARTER CORNER OF SAID SECTION 9 BY A 2-1/2" ALUMINUM CAP STAMPED LS 6935 BEING CONSIDERED TO BEAR SOUTH 00°15'06" EAST, 2648.70 FEET.



BRIAN P. WILSON  
COLORADO P.E. 0050067



CALL 811  
TWO WORKING DAYS  
BEFORE YOU DIG  
1-800-922-1987

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| SHEET NUMBER<br><br><b>1</b> | DRAWN BY:<br>RRR   | SCALE:<br>AS SHOWN | TRAILS AT CROWFOOT<br>FILING 16 CONSTRUCTION DRAWINGS<br>COVER SHEET | HR 935 LLC<br>7353 South Alton Way<br>CENTENNIAL, CO 80112 | <br><b>a Westwood team</b><br>10333 E. Dry Creek Rd.<br>Suite 240<br>Englewood, CO 80112<br>Tel: 720.482.952<br>www.cvlinc.net<br>westwoodpa.com |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                              | CHECKED BY:<br>BPW | FILE NO:           |                                                                      |                                                            |                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                              | DATE:<br>JUNE 2018 | 8130283701         |                                                                      |                                                            |                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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N:\PROJECTS\HSS RANCH\CAD\ENGINEERING\SSHEET SETS\MULTIFAMILY\CDIST\10\PARKER WATER AND SANITATION\COVER.DWG, BPWILSON, 6/4/2021, 12:28 PM



UNCC  
UTILITY NOTIFICATION  
CENTER OF COLORADO

CALL 811

TWO WORKING DAYS

BEFORE YOU DIG

1-800-922-1987

GENERAL NOTES:

- ALL MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE PWSO ENGINEERING STANDARDS AND SPECIFICATIONS, LATEST VERSION.
- THE CONTRACTOR SHALL CONTACT ALL APPROPRIATE UTILITY COMPANIES AND THE TOWN OF PARKER, DOUGLAS COUNTY AND OTHER NEIGHBORING CITIES AND TOWNS PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ANY EXISTING UTILITY (INCLUDING DEPTHS) WHICH MAY CONFLICT WITH THE PROPOSED CONSTRUCTION. ALL EXISTING UTILITIES SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. DAMAGED UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- ALL ITEMS SHOWN ON THE PLANS AS EXISTING ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE ACTUAL LOCATIONS MAY VARY FROM THE PLANS, ESPECIALLY IN THE CASE OF UNDERGROUND UTILITIES. WHENEVER THE CONTRACTOR DISCOVERS A DISCREPANCY IN LOCATIONS CONTACT THE PWSO IMMEDIATELY.
- PWSO ENGINEER AND OTHER APPROVING AGENCIES ARE TO BE NOTIFIED 48 HOURS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL OBTAIN, AT HIS EXPENSE, ALL PERMITS NECESSARY TO PERFORM THE PROPOSED WORK.
- ALL CONCRETE SHALL BE A MINIMUM OF CLASS A, 6 SACK, TYPE II, 3000--POUND COMPRESSION STRENGTH.
- THE DESIGN ENGINEER SHALL SUBMIT ONE (1) SET OF "AS--BUILT" DRAWINGS AND ELECTRONIC FILES TO THE DISTRICT ENGINEER FOR APPROVAL BY DISTRICT. AFTER APPROVAL HAS BEEN GRANTED BY THE DISTRICT ENGINEER, FULL SIZE PRINTS SHALL BE TRANSMITTED TO THE PWSO OFFICE.
- NO WORK SHALL BE BACKFILLED UNTIL THE CONSTRUCTION HAS BEEN INSPECTED AND APPROVED FOR BACKFILLING BY THE DISTRICT ENGINEER OR REPRESENTATIVE OF THE DISTRICT ENGINEER. ALL BACKFILL MATERIAL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY. COMPACTION TESTS MUST BE SUBMITTED TO DISTRICT ENGINEER PRIOR TO PROBATIONARY ACCEPTANCE.
- TRENCHES SHALL BE EXCAVATED AND THE PIPE EXPOSED FOR THE INSPECTION AT ANY LOCATION ON THE PROJECT IF SO ORDERED BY THE INSPECTOR.
- THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE PROPER FUNCTIONING OF LINES (WATER AND DEPTHS) FOR UP TO TWO (2) YEARS FROM THE DATE OF PROBATIONARY ACCEPTANCE OF THE LINES BY THE DISTRICT. ANY MALFUNCTION DURING THIS PERIOD OF GUARANTEE SHALL BE REMEDIED BY THE CONTRACTOR TO THE SATISFACTION OF THE DISTRICT ENGINEER AT NO EXPENSE TO THE DISTRICT.
- SURFACE GRADES ARE TO BE WITHIN PLUS OR MINUS ONE FOOT OF FINISHED GRADE AND VERIFICATION OF COMPACTION RESULTS OBTAINED PRIOR TO THE INSTALLATION OF WATER AND SEWER LINES. RESULTS MUST BE SUBMITTED TO THE DISTRICT ENGINEER.
- ALL SERVICES WILL BE PERMANENTLY MARKED ON CURB FACE AS FOLLOWS:  
"X" FOR SANITARY SERVICE SEWERS  
"V" FOR WATER SERVICES
- NO TREES ALLOWED IN EASEMENTS OR WITHIN 8' OF WATER OR SANITARY SEWER MAINS IN RIGHT OF WAY.
- THE CONTRACTOR SHALL HAVE IN HIS POSSESSION AT ALL TIMES ONE (1) SIGNED COPY OF THE PLANS WHICH HAVE BEEN APPROVED BY THE PWSO AND THE DISTRICT ENGINEER AND ONE (1) COPY OF THE LATEST PWSO SPECIFICATION MANUAL.

WATER MAIN NOTES:

- ALL MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE PWSO ENGINEERING STANDARDS AND SPECIFICATIONS, LATEST REVISION.
- ALL WATER MAINS SHALL BE PER PWSO MATERIALS SPECIFICATIONS. ALL MATERIALS IN CONTACT WITH POTABLE WATER SHALL BE SUITABLE FOR CHLORINATED AND CHLORAMINATED WATER.
- ALL BENDS, PLUGS, REDUCERS, AND FIRE HYDRANTS TO BE RODDED OR MEGA--LUGGED. ALL FITTINGS SHALL BE WRAPPED PER PWSO MATERIALS SPECIFICATIONS.
- THERE SHALL BE A MINIMUM COVER OF 4.5 FEET OVER ALL WATER MAINS.
- FIRE HYDRANTS SHALL CONFORM TO AWWA C--502 "DRY BARREL FIRE HYDRANTS" PIPE HYDRANT ASSEMBLIES PER PWSO SPECIFICATIONS.
- ALL BENDS, TEES, FIRE HYDRANTS, BLOW--OFFS, AND PLUGS AT DEAD--END MAINS SHALL BE PROTECTED FROM THRUST WITH CONCRETE THRUST BLOCKS.
- PRECAUTIONS SHALL BE TAKEN TO PROTECT THE INTERIOR OF PIPES, FITTINGS, AND VALVES AGAINST CONTAMINATION. ALL OPENINGS IN THE PIPELINE SHALL BE CLOSED WITH WATERTIGHT PLUGS WHEN PIPE LAYING IS STOPPED AT THE CLOSE OF THE DAY'S WORK OR FOR OTHER REASONS, SUCH AS REST BREAKS OR MEAL PERIODS.
- VALVES IN STREETS ARE TO BE LOCATED AT PROPERTY LINE EXTENSIONS EXCEPT FOR TAPPING TEES; WHERE AN ADDITIONAL VALVE SHALL BE PLACED ON THE TAPPING TEE. OTHER LOCATIONS SHOWN ON THE PLANS.
- WHEN NECESSARY TO LOWER OR RAISE WATER LINES AT STORM DRAINS AND OTHER UTILITY CROSSING, A MINIMUM CLEARANCE OF 1.5 FEET SHALL BE MAINTAINED BETWEEN OUTSIDE OF PIPES.
- THE CONTRACTOR SHALL NOTIFY THE PWSO AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION. IF WORK IS SUSPENDED FOR ANY PERIOD OF TIME AFTER INITIAL START--UP, THE CONTRACTOR MUST NOTIFY THE DISTRICT ENGINEER 48 HOURS PRIOR TO RE--START.
- PIPE BEDDING SHALL BE A CLEAN, WELL--GRADED SAND OR SQUEEGEE SAND IN ACCORDANCE WITH PWSO STANDARDS AND SPECIFICATIONS, LATEST REVISION.
- THE CONTRACTOR SHALL NOTIFY THE PUBLIC UTILITY COMPANIES AND DETERMINE THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO PROCEEDING WITH THE EXCAVATION. ALL WORK PERFORMED IN THE AREA OF THE PUBLIC UTILITIES SHALL BE PERFORMED ACCORDING TO THE REQUIREMENTS OF THESE AGENCIES
- COMPACTION OF ALL TRENCHES MUST BE ATTAINED IN ACCORDANCE WITH THE SOILS REPORTS AND COMPACTION TEST RESULTS SUBMITTED TO THE DISTRICT ENGINEER PRIOR TO PROBATIONARY ACCEPTANCE.
- AT LEAST FIVE (5) DAYS PRIOR TO THE START OF CONSTRUCTION, A PRE--CONSTRUCTION MEETING WILL BE HELD AT THE OFFICE OF THE DISTRICT ENGINEER AND ATTENDED BY THE CONTRACTOR, DESIGN ENGINEER, AND REPRESENTATIVE OF OTHER APPROVING AGENCIES.
- CHLORINATION AND FLUSHING: ALL WATER MAINS SHALL BE INSTALLED AND CHLORINATED PER PWSO SPECIFICATIONS. CHLORINATION OF FINISHED PIPELINE COMPLETED BEFORE HYDROSTATIC TESTING.
- HYDROSTATIC TESTING: ALL WATER MAINS SHALL BE TESTED PER THE REQUIREMENTS OF THE PWSO SPECIFICATIONS UP TO MINIMUM OF 150 PSI IN THE PRESENCE OF A PWSO INSPECTOR/ENGINEER.

SANITARY SEWER NOTES:

- ALL MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE PWSO ENGINEERING STANDARDS AND SPECIFICATIONS, LATEST VERSION.
- ALL SEWER MAINS SHALL BE PVC, ASTM D--3034, SDR 35 OR APPROVED EQUAL. ALL SEWER MAIN SIZE IS 8" IN DIAMETER UNLESS OTHERWISE NOTED.
- SEWER LINES SHALL BE INSTALLED 5.0 FEET SOUTH OR WEST OF STREET CENTERLINE, UNLESS OTHERWISE SHOWN ON PLANS. SEWER LINES SHALL BE 10.00 FEET FROM WATER LINES EXCEPT WHEN CROSSING EACH OTHER. SEWER LINES WHICH CROSS LESS THAN 1.50 FEET VERTICALLY FROM THE WATER MAIN SHALL BE ENCASED IN CONCRETE AS PER PWSO SPECIFICATIONS. USE RUBBER GASKETS FOR PVC ENCASEMENT.
- SEWER RIM ELEVATIONS SHOWN ARE APPROPRIATE ONLY AND ARE NOT TO BE TAKEN AS FINAL ELEVATIONS. RING AND COVER SHALL BE SET IN CENTERED CONCRETE RINGS WITH RAM--NECK FOR ADJUSTMENT TO MATCH FINAL PAVEMENT ELEVATIONS.
- THE CONTRACTOR AND SURVEY CREW SHALL VERIFY ELEVATIONS OF EXISTING SEWER LINES AND MANHOLES TO BE TIED TO PRIOR TO CONSTRUCTION OR STAKING OF SANITARY SEWER.
- NO UNDERDRAIN SYSTEM WILL BE ALLOWED TO BE PLACED IN MAINLINE OR SEWER SERVICE TRENCHES.
- SEWER SERVICE TEES FOR EACH UNIT SHALL BE STAKED BY A SURVEY CREW AND FURNISHED AND INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL FURNISH TO THE ENGINEER "AS CONSTRUCTED" LOCATION OF TEES. SEWER WYES SHALL BE USED RATHER THAN TEES.
- ALL MANHOLES SHALL BE 48--INCHES IN DIAMETER WITH 24--INCH RING AND COVER, ECCENTRIC CONE UNLESS OTHERWISE SPECIFIED. ALL MANHOLES SHALL HAVE SHAPED INVERTS.
- PIPE BEDDING SHALL BE CLASS "B" AND SHALL CONFORM TO ASTM C--33 OR D--448 GRADATION NO. 6 OR NO. 67.
- AT LEAST FIVE (5) DAYS PRIOR TO THE START OF CONSTRUCTION, A PRE--CONSTRUCTION MEETING WILL BE HELD AT THE OFFICE OF THE DISTRICT ENGINEER AND ATTENDED BY THE CONTRACTOR AND REPRESENTATIVES OF THE OTHER APPROVING AGENCIES. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE DISTRICT ENGINEER TO SCHEDULE THIS MEETING.
- THE CONTRACTOR SHALL HAVE IN HIS POSSESSION AT ALL TIMES ONE (1) SIGNED COPY OF THE PLANS WHICH HAVE BEEN APPROVED BY THE PWSO AND THE DISTRICT ENGINEER AND ONE (1) COPY OF THE LATEST PWSO SPECIFICATION MANUAL.
- ALL SEWER LINES SHALL BE TESTED IN ACCORDANCE WITH THE PWSO STANDARDS AND SPECIFICATIONS PRIOR TO ACCEPTANCE OR ANY CONNECTION TO AN EXISTING SEWER LINE.
- PRIOR TO STARTING WORK WHERE SEWER MAIN IS TO BE CONNECTED TO EXISTING PWSO SEWER SYSTEMS. THE NEAREST MANHOLE TO THE POINT OF TIE--IN SHALL BE PLUGGED WITH A PLUMBER'S PLUG ON THE INLET SIDE BY THE CONTRACTOR. THIS PLUG SHALL REMAIN IN PLACE UNTIL FINAL PROBATIONARY ACCEPTANCE BY PWSO. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PUMPING AND CLEANING THESE MANHOLES AND REMOVING THE PLUG WHEN INSTRUCTED BY THE DISTRICT.
- PRIOR TO PROBATIONARY ACCEPTANCE WALK--THROUGH, THE CONTRACTOR SHALL JET CLEAN THE ENTIRE SANITARY SEWER SYSTEM AND PUMP OUT AT THE PLUGGED MANHOLE.

DISTRICT ACCEPTANCE NOTES:

- UPON COMPLETION OF SANITARY SEWER AND WATER CONSTRUCTION AND TESTING, THE DEVELOPER OR CONTRACTOR SHALL CONTACT THE DISTRICT FOR PROBATIONARY ACCEPTANCE INSPECTION. A PUNCHLIST WILL BE PROVIDED THE DEVELOPER AND CONTRACTOR UPON COMPLETION OF THE INITIAL WALK--THRU AND PROBATIONARY ACCEPTANCE WILL BE ISSUED FOLLOWING COMPLETION AND ACCEPTANCE OF THE WORK OUTLINED IN THE PUNCHLIST.
- THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE PROPER FUNCTIONING OF THE LINES FOR UP TO TWO (2) YEARS FROM THE DATE OF PROBATIONARY ACCEPTANCE OF THE LINES BY THE DISTRICT. ANY MALFUNCTION DURING THIS PERIOD OF GUARANTEE SHALL BE REMEDIED BY THE CONTRACTOR TO THE SATISFACTION OF THE DISTRICT ENGINEER AT NO EXPENSE TO THE DISTRICT.
- THE DATE OF FINAL ACCEPTANCE WILL BE INDICATED IN THE CONDITIONS OF THE PROBATIONARY ACCEPTANCE LETTER. THE DEVELOPER SHALL BE RESPONSIBLE FOR CONTACTING THE DISTRICT FOR FINAL INSPECTION AND FINAL ACCEPTANCE.

|              |               |                 |                 |                 |                     |                                                                                            |                                                            |                                                                                                        |                                                                                                                    |     |           |      |       |       |      |  |  |
|--------------|---------------|-----------------|-----------------|-----------------|---------------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----|-----------|------|-------|-------|------|--|--|
| SHEET NUMBER | DRAWN BY: KJD | CHECKED BY: BPW | DATE: JUNE 2018 | SCALE: AS SHOWN | FILE NO: 8130283701 | TRAILS AT CROWFOOT<br>FILING 16 CONSTRUCTION DRAWINGS<br>PARKER WATER AND SANITATION NOTES | HR 935 LLC<br>7353 South Alton Way<br>CENTENNIAL, CO 80112 | <br>a Westwood team | 10333 E. Dry Creek Rd.<br>Suite 240<br>Englewood, CO 80112<br>Tel: 720.482.952<br>www.cvlinc.net<br>westwoodpa.com | No. | Revisions | Date | Init. | Appr. | Date |  |  |
|              |               |                 |                 |                 |                     |                                                                                            |                                                            |                                                                                                        |                                                                                                                    |     |           |      |       |       |      |  |  |
|              |               |                 |                 |                 |                     |                                                                                            |                                                            |                                                                                                        |                                                                                                                    |     |           |      |       |       |      |  |  |
|              |               |                 |                 |                 |                     |                                                                                            |                                                            |                                                                                                        |                                                                                                                    |     |           |      |       |       |      |  |  |

BENCHMARK  
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A 3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

BASIS OF BEARINGS:  
THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 9 BEING MONUMENTED AT THE NORTHEAST CORNER OF SAID SECTION 9 BY A 3-1/4" ALUMINUM CAP STAMPED LS 23053 AND AT THE EAST QUARTER CORNER OF SAID SECTION 9 BY A 2-1/2" ALUMINUM CAP STAMPED LS 6935 BEING CONSIDERED TO BEAR SOUTH 00°15'06" EAST, 2648.70 FEET.

PREPARED UNDER THE SUPERVISION OF



7-16-21

BRIAN P. WILSON  
COLORADO P.E. 0050067

THE DISTRICT INSPECTOR MUST BE NOTIFIED AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION. CALL PARKER WATER AND SANITATION DISTRICT AT 303-841-4627. THE DISTRICT WILL PROVIDE PERIODIC INSPECTIONS OF THE WORK. 24 HOUR NOTICE TO THE INSPECTOR IS REQUIRED FOR SCHEDULE INSPECTIONS. ANY WORK ACCOMPLISHED WITHOUT THE APPROVAL OF THE INSPECTOR WILL BE SUBJECT TO REJECTION.

REVIEWED FOR CONFORMANCE TO PARKER WATER AND SANITATION DISTRICT STANDARDS.

BY: \_\_\_\_\_ DATE \_\_\_\_\_  
(DISTRICT REPRESENTATIVE)

APPROVED FOR CONSTRUCTION:  
PARKER WATER AND SANITATION DISTRICT

BY: \_\_\_\_\_ DATE \_\_\_\_\_  
(DISTRICT ENGINEER)

### LEGEND

|       |                                       |       |                                  |
|-------|---------------------------------------|-------|----------------------------------|
| ②     | BLOCK NUMBER                          | △     | PROPOSED RANGE POINT             |
| Ⓐ     | LOT TYPE                              | ----  | CENTERLINE                       |
| 6     | LOT NUMBER                            | ===== | RIGHT-OF-WAY                     |
| ⊕     | PROPOSED BUTTERFLY VALVE              | ===== | PROPERTY LINE                    |
| ⌈     | PROPOSED CAP WITH END OF LINE BLOWOFF | ===== | EDGE OF PAVEMENT                 |
| ⊞     | PROPOSED REDUCER                      | ➔     | PROPOSED DIRECTION OF FLOW       |
| ⊞     | PROPOSED VALVE                        | 1.0%  | PROPOSED SLOPE & DIRECTION       |
| ⊞     | PROPOSED FIRE HYDRANT                 | 5615  | EXISTING 5' CONTOUR              |
| ⊞     | PROPOSED WL FITTING WITH THRUST BLOCK | 5616  | EXISTING 1' CONTOUR              |
| ⊞     | PROPOSED FLARED END SECTION           | 5620  | PROPOSED 5' CONTOUR              |
| ⊞     | PROPOSED LOW POINT BLOW-OFF           | 5607  | PROPOSED 1' CONTOUR              |
| ⊞     | PROPOSED AIR VALVE                    | ===== | PROPOSED STORM DRAIN             |
| ⊞     | FUTURE PHASE VALVE                    | ===== | PROPOSED SEWER LINE WITH MANHOLE |
| ⊞     | FUTURE FIRE HYDRANT                   | ===== | PROPOSED SEWER LATERAL           |
| ⊞     | PROPOSED LIGHT POLE                   | ===== | PROPOSED WATER LINE              |
| ⊞     | PROPOSED SIDEWALK                     | ===== | PROPOSED WATER LATERAL W/ METER  |
| ⊞     | PROPOSED SIDEWALK RAMP                | ----  | SECTION LINE                     |
| 10.00 | EXISTING ELEVATION                    | ===== | FILING BOUNDARY                  |
| 10.00 | PROPOSED DESIGN ELEVATION             | FO    | EXISTING FIBER OPTIC LINE        |
| ⊞     | PROPOSED STORM DRAIN INLET            | OH    | EXISTING OVERHEAD POWER          |
| ⊞     | PROPOSED STORM DRAIN MANHOLE          | TEL   | EXISTING TELEPHONE LINE          |
|       |                                       | ----  | PWSD EASEMENT                    |
|       |                                       | ----  | TYP. EASEMENT                    |

### ABBREVIATIONS

|     |                        |        |                                 |
|-----|------------------------|--------|---------------------------------|
| AD  | ANGLE DIFFERENCE       | MH     | MANHOLE                         |
| AV  | AIR VAC RELEASE VALVE  | N.T.S. | NOT TO SCALE                    |
| BVC | BEGIN VERTICAL CURVE   | PVC    | POLYVINYL CHLORIDE              |
| BVP | BEGIN VERTICAL PROFILE | PVI    | PT. OF VERTICAL INTERSECTION    |
| CBO | CAP WITH BLOW OFF      | PVT    | POINT OF VERTICAL TANGENT       |
| CRR | CURB RETURN RADIUS     | RCBC   | REINFORCED CONCRETE BOX CULVERT |
| EL  | ELEVATION              | RCP    | REINFORCED CONCRETE PIPE        |
| EP  | EDGE OF PAVEMENT       | ROW    | RIGHT OF WAY                    |
| EVC | END VERTICAL CURVE     | SC     | SANITARY CAP                    |
| EVP | END VERTICAL PROFILE   | SD     | STORM DRAIN                     |
| FG  | FINISHED GROUND        | SL     | SECTION LINE                    |
| FH  | FIRE HYDRANT           | SS     | SANITARY SEWER                  |
| FL  | FLOW LINE              | STA    | STATION                         |
| GV  | GATE VALVE             | T.O.P. | TOP OF PIPE                     |
| HCR | HANDICAP CURB RAMP     | UE     | UTILITY EASEMENT                |
| HP  | HIGH POINT             | VC     | VERTICAL CURVE                  |
| INV | INVERT                 | WL     | WATER LINE                      |
| K   | CURVATURE COEFFICIENT  | WLC    | WATER LINE CONNECTION           |
| LF  | LINEAR FEET            | WSE    | WATER SURFACE ELEVATION         |

#### FIRE DEPARTMENT APPROVAL

ALL FIRE HYDRANTS SHALL BE INSTALLED ACCORDING TO WATER UTILITY STANDARDS. THE NUMBER AND LOCATIONS OF THE FIRE HYDRANTS AS SHOWN ON THE OVERALL UTILITY PLAN ARE CORRECT AS SPECIFIED BY THE TOWN OF PARKER, COMMUNITY DEVELOPMENT DEPARTMENT.

(FIRE CODE OFFICIAL OR DESIGNATED REPRESENTATIVE) \_\_\_\_\_

DATE \_\_\_\_\_

(NOTE- UNDERGROUND FIRE LINE (UFL) SUBMITTAL DOCUMENTS MUST MEET THE REQUIREMENTS OF NFPA24 WHEN SUBMITTING FOR REVIEW.)

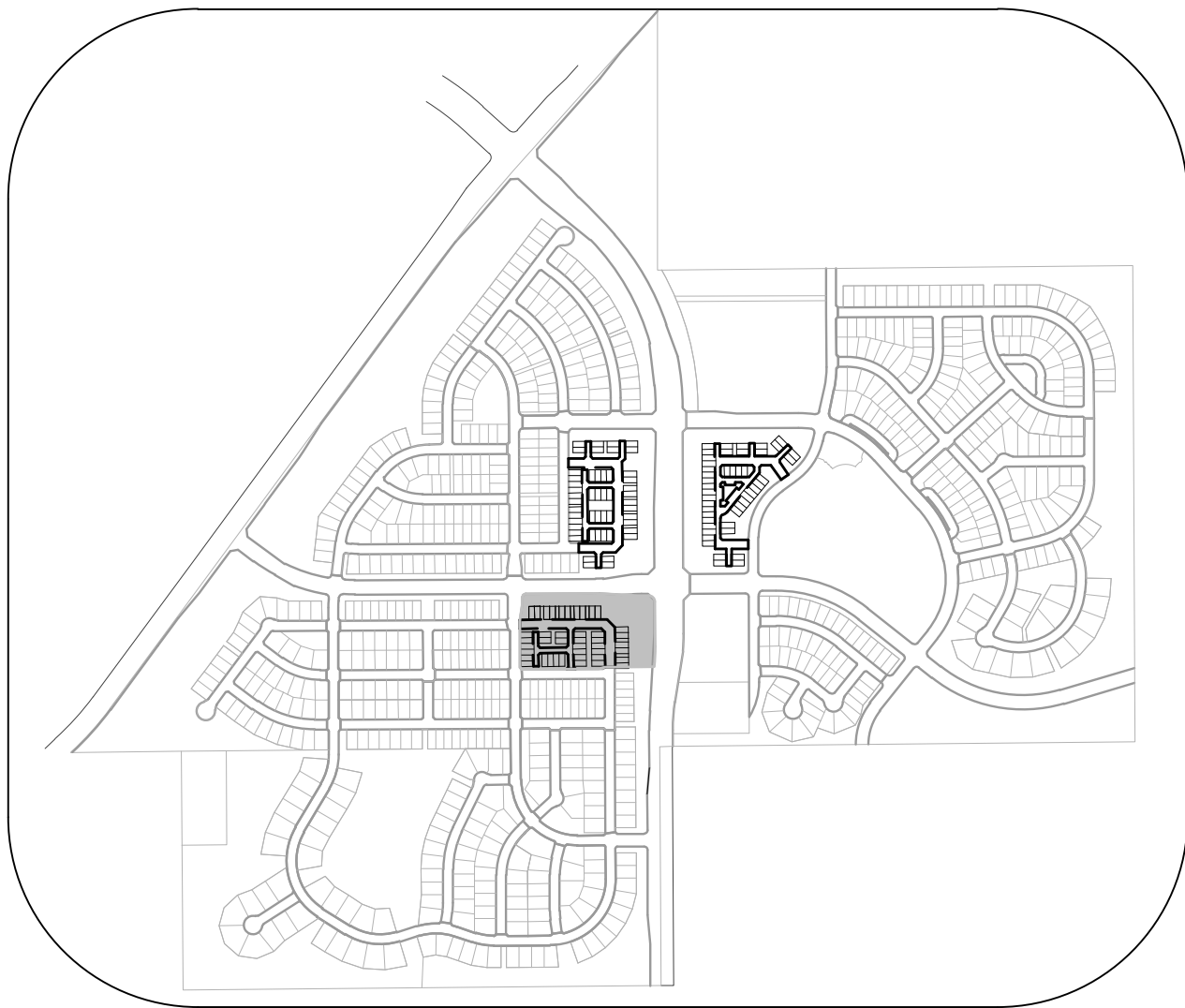
| SANITARY SERVICE TABLE |                     |            |
|------------------------|---------------------|------------|
| FILING, BLOCK, LOT     | STREET              | STATIONING |
| F16,B1,L1              | BIRDS FOOT TRL      | 30+47.85   |
| F16,B1,L2              | BIRDS FOOT TRL      | 30+82.08   |
| F16,B1,L3              | BIRDS FOOT TRL      | 31+31.85   |
| F16,B1,L4              | BIRDS FOOT TRL      | 31+73.58   |
| F16,B1,L5              | BIRDS FOOT TRL      | 32+15.10   |
| F16,B1,L6              | BIRDS FOOT TRL      | 32+45.65   |
| F16,B1,L7              | BIRDS FOOT TRL      | 33+00.10   |
| F16,B1,L8              | BIRDS FOOT TRL      | 33+30.60   |
| F16,B1,L9              | BIRDS FOOT TRL      | 33+84.08   |
| F16,B1,L10             | BIRDS FOOT TRL      | 34+14.74   |
| F16,B1,L11             | FILING 16 SS EAST   | 10+36.57   |
| F16,B1,L12             | FILING 16 SS EAST   | 10+56.57   |
| F16,B1,L13             | FILING 16 SS EAST   | 11+20.57   |
| F16,B1,L14             | FILING 16 SS EAST   | 11+40.57   |
| F16,B1,L15             | FILING 16 SS EAST   | 12+04.57   |
| F16,B1,L16             | FILING 16 SS EAST   | 12+24.57   |
| F16,B2,L7              | FILING 16 SS WEST   | 10+60.92   |
| F16,B2,L8              | FILING 16 SS WEST   | 10+83.92   |
| F16,B2,L9              | FILING 16 SS WEST   | 10+63.92   |
| F16,B2,L10             | FILING 16 SS WEST   | 10+83.92   |
| F16,B2,L15             | FILING 16 SS MIDDLE | 10+62.00   |
| F16,B2,L16             | FILING 16 SS MIDDLE | 10+82.00   |
| F16,B2,L17             | FILING 16 SS MIDDLE | 11+26.00   |

| SANITARY SERVICE TABLE |                     |          |
|------------------------|---------------------|----------|
| F16,B2,L17             | FILING 16 SS MIDDLE | 11+26.00 |
| F16,B2,L18             | FILING 16 SS MIDDLE | 11+46.00 |
| F16,B2,L19             | FILING 16 SS MIDDLE | 11+90.00 |
| F16,B2,L20             | FILING 16 SS MIDDLE | 12+10.00 |
| F16,B2,L21             | FILING 16 SS MIDDLE | 10+59.00 |
| F16,B2,L22             | FILING 16 SS MIDDLE | 10+85.00 |
| F16,B2,L23             | FILING 16 SS MIDDLE | 11+23.00 |
| F16,B2,L24             | FILING 16 SS MIDDLE | 11+49.00 |
| F16,B2,L25             | FILING 16 SS MIDDLE | 11+87.00 |
| F16,B2,L26             | FILING 16 SS MIDDLE | 12+10.00 |

FILING 16 SANITARY SERVICES FOR BLOCK 2 LOTS 11-14 WERE INSTALLED WITH TRAILS AT CROWFOOT FILING 5

| WATER SERVICE TABLE |                |            |
|---------------------|----------------|------------|
| FILING, BLOCK, LOT  | STREET         | STATIONING |
| F16,B1,L1           | BIRDS FOOT TRL | 30+87.68   |
| F16,B1,L2           | BIRDS FOOT TRL | 30+38.02   |
| F16,B1,L3           | BIRDS FOOT TRL | 31+22.02   |
| F16,B1,L4           | BIRDS FOOT TRL | 31+71.75   |
| F16,B1,L5           | BIRDS FOOT TRL | 32+06.09   |
| F16,B1,L6           | BIRDS FOOT TRL | 32+55.75   |
| F16,B1,L7           | BIRDS FOOT TRL | 32+90.09   |
| F16,B1,L8           | BIRDS FOOT TRL | 33+39.75   |
| F16,B1,L9           | BIRDS FOOT TRL | 33+74.09   |
| F16,B1,L10          | BIRDS FOOT TRL | 34+50.96   |
| F16,B1,L11          | HOP CLOVER TRL | 10+54.27   |
| F16,B1,L12          | HOP CLOVER TRL | 10+73.91   |
| F16,B1,L13          | HOP CLOVER TRL | 11+32.48   |
| F16,B1,L14          | HOP CLOVER TRL | 11+82.14   |
| F16,B1,L15          | HOP CLOVER TRL | 12+49.07   |
| F16,B1,L16          | HOP CLOVER TRL | 12+51.57   |
| F16,B2,L1           | ALPINE LILY LN | 10+09.67   |
| F16,B2,L2           | ALPINE LILY LN | 10+54.33   |
| F16,B2,L3           | ALPINE LILY LN | 10+71.17   |
| F16,B2,L4           | ALPINE LILY LN | 11+20.83   |
| F16,B2,L5           | ALPINE LILY LN | 11+35.17   |
| F16,B2,L6           | ALPINE LILY LN | 11+84.87   |
| F16,B2,L7           | ALPINE LILY LN | 10+07.17   |

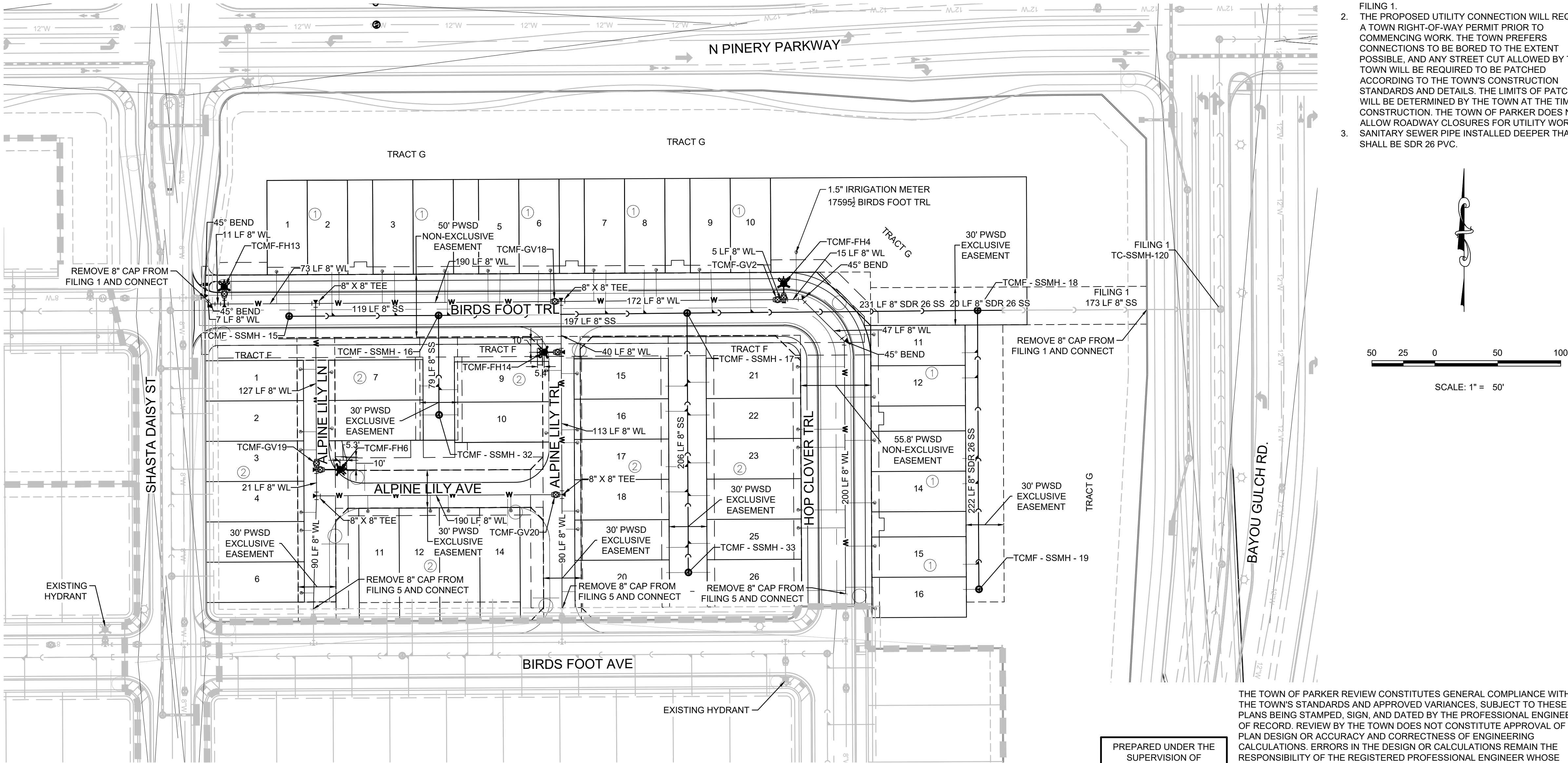
| WATER SERVICE TABLE |                 |          |
|---------------------|-----------------|----------|
| F16,B2,L8           | ALPINE LILY LN  | 10+56.83 |
| F16,B2,L9           | ALPINE LILY TRL | 10+51.59 |
| F16,B2,L10          | ALPINE LILY TRL | 10+98.75 |
| F16,B2,L11          | ALPINE LILY ST  | 10+40.65 |
| F16,B2,L12          | ALPINE LILY ST  | 10+90.31 |
| F16,B2,L13          | ALPINE LILY ST  | 11+04.65 |
| F16,B2,L14          | ALPINE LILY ST  | 11+54.31 |
| F16,B2,L15          | ALPINE LILY TRL | 10+49.09 |
| F16,B2,L16          | ALPINE LILY TRL | 10+96.25 |
| F16,B2,L17          | ALPINE LILY TRL | 11+06.45 |
| F16,B2,L18          | ALPINE LILY TRL | 11+60.78 |
| F16,B2,L19          | ALPINE LILY TRL | 11+75.12 |
| F16,B2,L20          | ALPINE LILY TRL | 12+24.78 |
| F16,B2,L21          | HOP CLOVER TRL  | 10+98.14 |
| F16,B2,L22          | HOP CLOVER TRL  | 11+23.57 |
| F16,B2,L23          | HOP CLOVER TRL  | 11+37.91 |
| F16,B2,L24          | HOP CLOVER TRL  | 11+87.57 |
| F16,B2,L25          | HOP CLOVER TRL  | 12+01.91 |
| F16,B2,L26          | HOP CLOVER TRL  | 12+16.48 |



### KEYMAP N.T.S.

#### NOTES:

- SANITARY SERVICES FOR BLOCK 7, LOTS 1-6 & 21-28 WILL BE INSTALLED WITH TRAILS AT CROWFOOT FILING 1.
- THE PROPOSED UTILITY CONNECTION WILL REQUIRE A TOWN RIGHT-OF-WAY PERMIT PRIOR TO COMMENCING WORK. THE TOWN PREFERS CONNECTIONS TO BE BORED TO THE EXTENT POSSIBLE, AND ANY STREET CUT ALLOWED BY THE TOWN WILL BE REQUIRED TO BE PATCHED ACCORDING TO THE TOWN'S CONSTRUCTION STANDARDS AND DETAILS. THE LIMITS OF PATCHING WILL BE DETERMINED BY THE TOWN AT THE TIME OF CONSTRUCTION. THE TOWN OF PARKER DOES NOT ALLOW ROADWAY CLOSURES FOR UTILITY WORK.
- SANITARY SEWER PIPE INSTALLED DEEPER THAN 20' SHALL BE SDR 26 PVC.



PREPARED UNDER THE SUPERVISION OF  
  
BRIAN P. WILSON  
COLORADO P.E. 0050067

THE TOWN OF PARKER REVIEW CONSTITUTES GENERAL COMPLIANCE WITH THE TOWN'S STANDARDS AND APPROVED VARIANCES. SUBJECT TO THESE PLANS BEING STAMPED, SIGN, AND DATED BY THE PROFESSIONAL ENGINEER OF RECORD. REVIEW BY THE TOWN DOES NOT CONSTITUTE APPROVAL OF THE PLAN DESIGN OR ACCURACY AND CORRECTNESS OF ENGINEERING CALCULATIONS. ERRORS IN THE DESIGN OR CALCULATIONS REMAIN THE RESPONSIBILITY OF THE REGISTERED PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE ARE AFFIXED TO THIS DOCUMENT.

THIS REVIEW DOES NOT CONSTITUTE APPROVAL OF ANY PRIVATE ON-SITE IMPROVEMENTS WHICH MAY BE SHOWN. CONSTRUCTION CANNOT COMMENCE UNTIL ALL REQUIRED DRAINAGE/TRAFFIC REPORT(S), FINAL DEVELOPMENT PLAN(S), SPECIAL REVIEW(S), GRADING PERMIT, AND/OR OTHER PERMITS ARE COMPLETE, APPROVED AND ON FILE WITH THE TOWN OF PARKER.

TOWN OF PARKER, DIRECTOR OF ENGINEERING \_\_\_\_\_ DATE \_\_\_\_\_

CALL 811  
TWO WORKING DAYS  
BEFORE YOU DIG  
1-800-922-1987



BENCHMARK  
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A 3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

#### BASIS OF BEARINGS:

THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 9 BEING MONUMENTED AT THE NORTHEAST CORNER OF SAID SECTION 9 BY A 3-1/4" ALUMINUM CAP STAMPED LS 23053 AND AT THE EAST QUARTER CORNER OF SAID SECTION 9 BY A 2-1/2" ALUMINUM CAP STAMPED LS 6935 BEING CONSIDERED TO BEAR SOUTH 00°15'06" EAST, 2648.70 FEET.

10333 E. Dry Creek Rd.  
Suite 240  
Englewood, CO 80112  
Tel: 720.482.9522  
www.cvlinc.net  
westwoodps.com



HR 935 LLC  
7333 South Alton Way  
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT  
FILING 16 CONSTRUCTION DRAWINGS  
AREA UTILITY PLAN

SCALE: AS SHOWN  
DRAWN BY: BPW  
CHECKED BY: BPW  
FILE NO: 8130283701  
DATE: JUNE 2018

SHEET NUMBER  
3

N:\PROJECTS\HSS RANCH\ENGINEERING\SHSHEET SETS\MULTIFAMILY\CDSE\10PARKER WATER AND SANITATIONSANITARY SEWER SHEET\BIRDS FOOT TRAIL DWG.BPWILSON.6/4/2021 12:29 PM

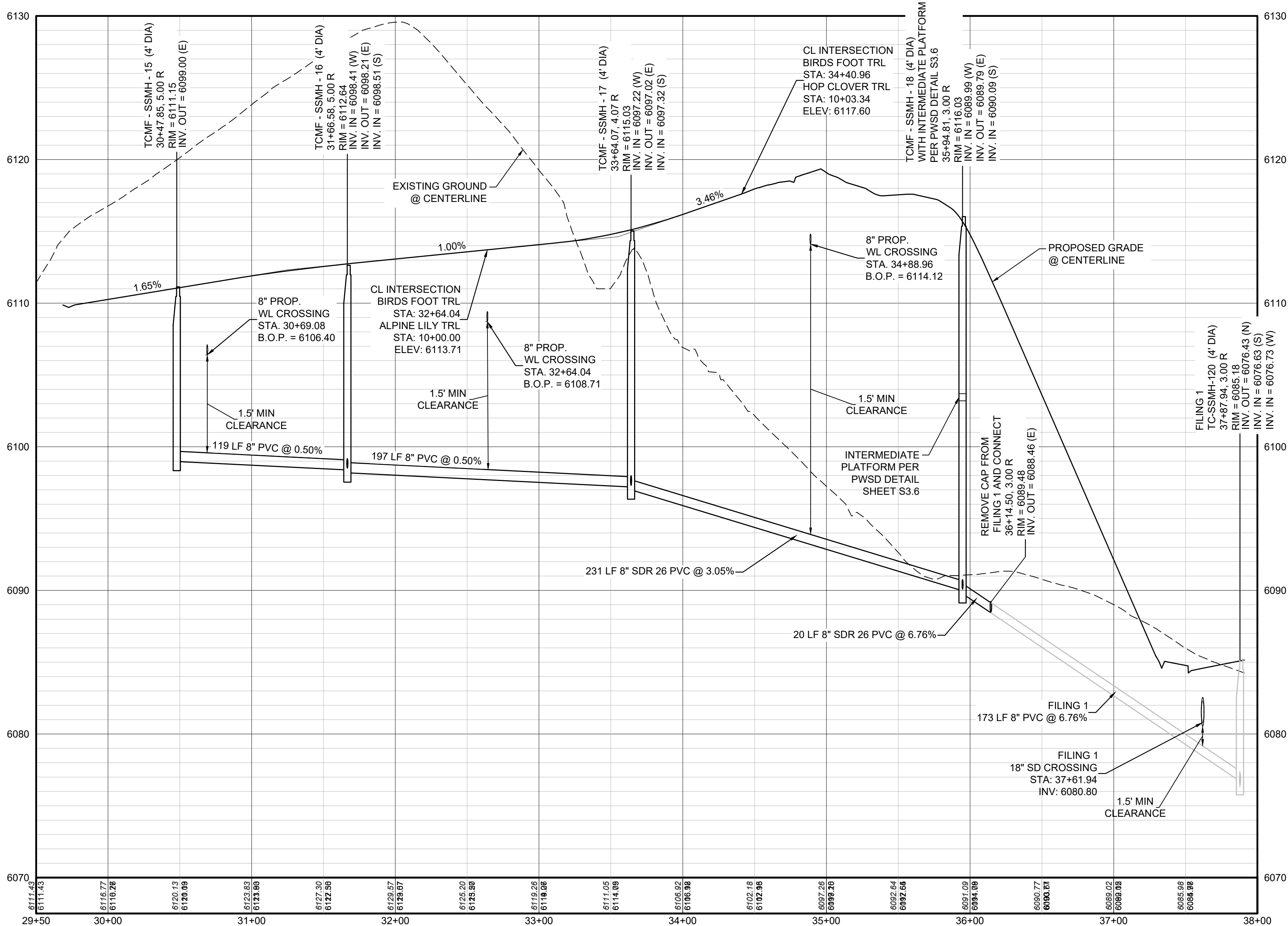


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UTILITY NOTIFICATION  
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CALL 811

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1-800-922-1987



PROFILE: BIRDS FOOT TRL STA: 29+50.00 TO 38+00.00  
HORIZONTAL: 1" = 50'  
VERTICAL: 1" = 5'

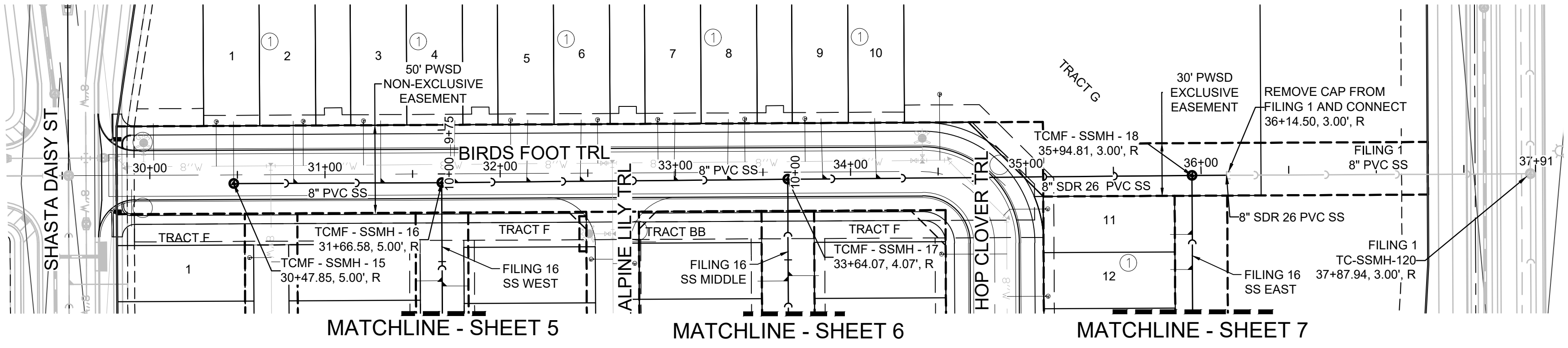
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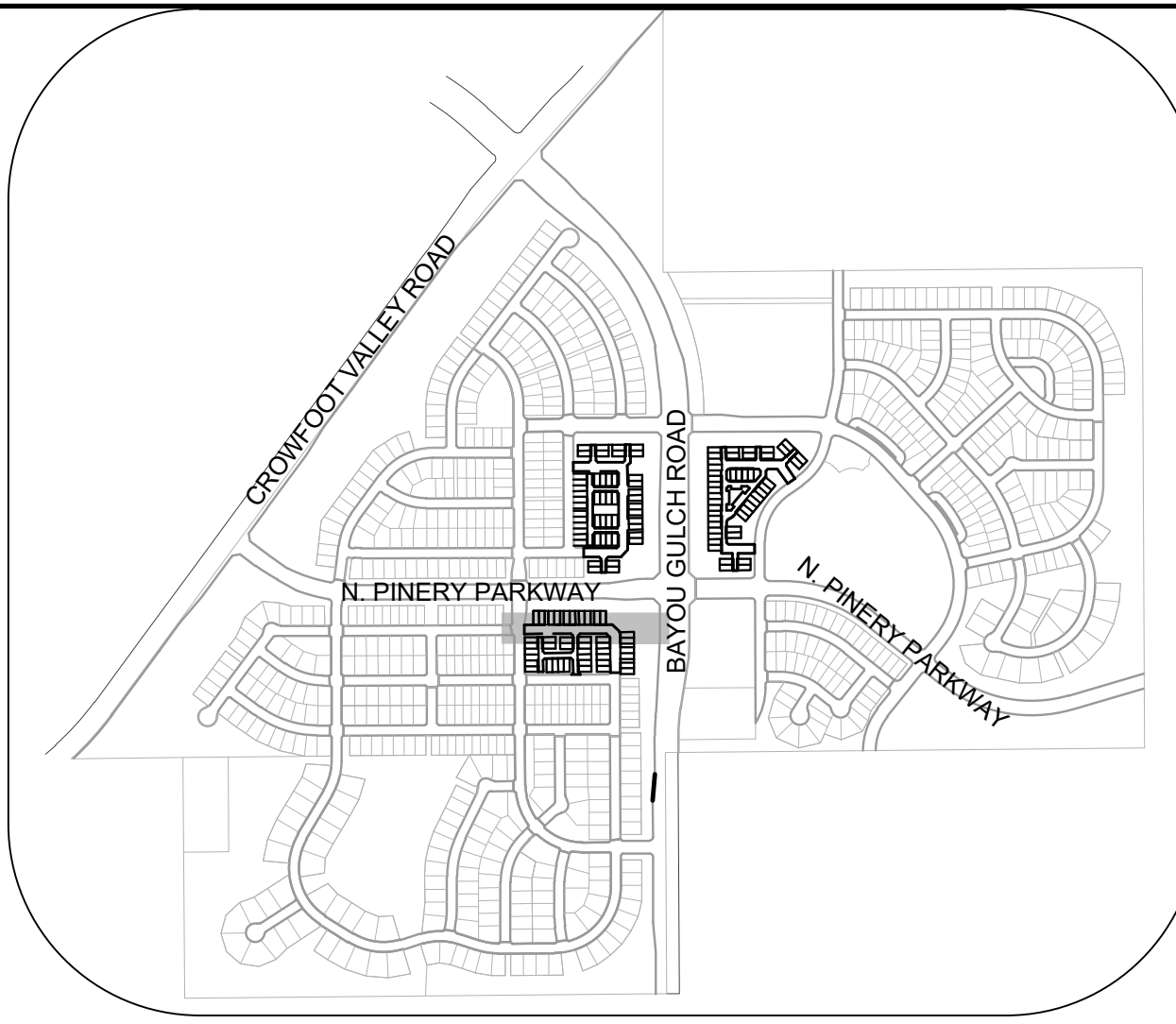
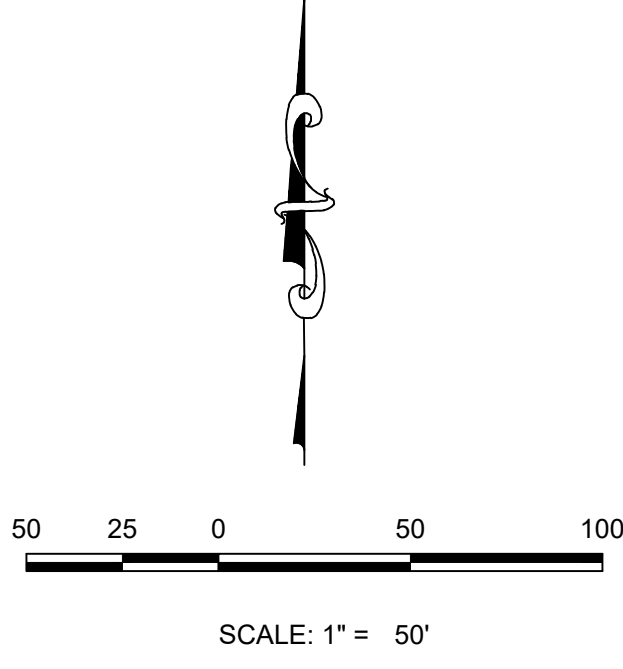
PREPARED UNDER THE SUPERVISION OF



BRIAN P. WILSON  
COLORADO P.E. 0050067



PLAN: BIRDS FOOT TRL STA: 29+00.00 TO 38+00.00  
HORIZONTAL SCALE: 1" = 50'



KEYMAP  
N.T.S.

**LEGEND**

②

BLOCK NUMBER

Ⓐ

LOT TYPE

6

PROPOSED BUTTERFLY VALVE

⌋

PROPOSED CAP WITH END OF LINE BLOWOFF

⌋

PROPOSED REDUCER

⌋

PROPOSED VALVE

⌋

PROPOSED FIRE HYDRANT

⌋

PROPOSED WL FITTING WITH THRUST BLOCK

⌋

PROPOSED FLARED END SECTION

⌋

PROPOSED LOW POINT BLOW-OFF

⌋

PROPOSED AIR VALVE

⌋

FUTURE PHASE VALVE

⌋

FUTURE FIRE HYDRANT

⌋

PROPOSED LIGHT POLE

⌋

PROPOSED SIDEWALK

⌋

PROPOSED SIDEWALK RAMP

10.00

EXISTING ELEVATION

10.00

PROPOSED DESIGN ELEVATION

⌋

PROPOSED STORM DRAIN INLET

⌋

PROPOSED STORM DRAIN MANHOLE

△

PROPOSED RANGE POINT

---

CENTERLINE

---

RIGHT-OF-WAY

---

PROPERTY LINE

---

EDGE OF PAVEMENT

→

PROPOSED DIRECTION OF FLOW

1.0%

PROPOSED SLOPE & DIRECTION

---

EXISTING 5' CONTOUR

---

EXISTING 1' CONTOUR

---

PROPOSED 5' CONTOUR

---

PROPOSED 1' CONTOUR

---

PROPOSED STORM DRAIN

---

PROPOSED SEWER LINE WITH MANHOLE

---

PROPOSED SEWER LATERAL

---

PROPOSED WATER LINE

---

PROPOSED WATER LATERAL W/ METER

---

SECTION LINE

---

FILING BOUNDARY

---

EXISTING FIBER OPTIC LINE

---

EXISTING OVERHEAD POWER

---

EXISTING TELEPHONE LINE

---

PWSD EASEMENT

---

TYP. EASEMENT

**ABBREVIATIONS**

AD

ANGLE DIFFERENCE

AV

AIR VAC RELEASE VALVE

BVC

BEGIN VERTICAL CURVE

BVP

BEGIN VERTICAL PROFILE

CBO

CAP WITH BLOW OFF

CRR

CURB RETURN RADIUS

EL

ELEVATION

EP

EDGE OF PAVEMENT

EVC

END VERTICAL CURVE

EVP

END VERTICAL PROFILE

FG

FINISHED GROUND

FH

FIRE HYDRANT

FL

FLOW LINE

GV

GATE VALVE

HCR

HANDICAP CURB RAMP

HP

HIGH POINT

INV

INVERT

K

CURVATURE COEFFICIENT

LF

LINEAR FEET

MH

MANHOLE

N.T.S.

NOT TO SCALE

PVC

POLYVINYL CHLORIDE

PVI

PT. OF VERTICAL INTERSECTION

PVT

POINT OF VERTICAL TANGENT

RCBC

REINFORCED CONCRETE BOX CULVERT

ROP

REINFORCED CONCRETE PIPE

ROW

RIGHT OF WAY

SC

SANITARY CAP

SD

STORM DRAIN

SL

SECTION LINE

SS

SANITARY SEWER

STA

STATION

T.O.P.

TOP OF PIPE

UE

UTILITY EASEMENT

VC

VERTICAL CURVE

WL

WATER LINE

WLC

WATER LINE CONNECTION

WSE

WATER SURFACE ELEVATION

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a Westwood team

HR 935 LLC  
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CENTENNIAL, CO 80112

TRAILS AT CROWFOOT  
FILING 16 CONSTRUCTION DRAWINGS  
SANITARY SEWER PLAN & PROFILE  
BIRDS FOOT TRAIL

DRAWN BY: RRR

CHECKED BY: BPW

DATE: JUNE 2018

SCALE: AS SHOWN

FILE NO: 8130283701

SHEET NUMBER

4

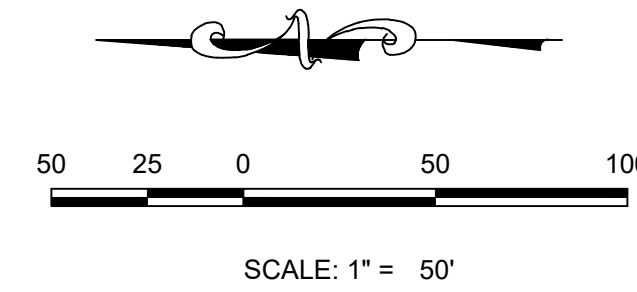
Revisions

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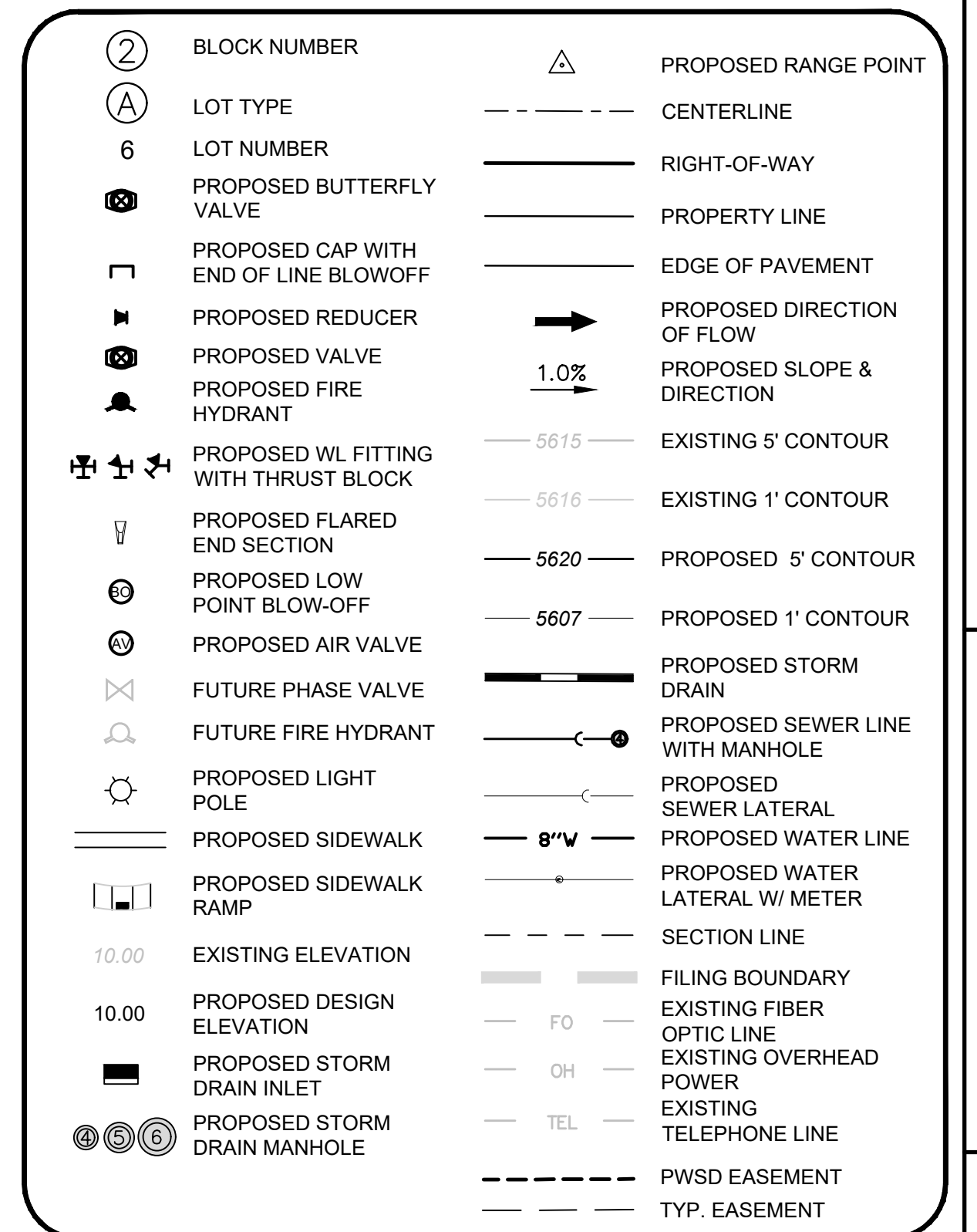
Init.

Appr.

Date



## LEGEND



## ABBREVIATIONS

|     |                        |        |                                 |
|-----|------------------------|--------|---------------------------------|
| AD  | ANGLE DIFFERENCE       | MH     | MANHOLE                         |
| AV  | AIR VAC RELEASE VALVE  | N.T.S  | NOT TO SCALE                    |
| BVC | BEGIN VERTICAL CURVE   | PVC    | POLYVINYL CHLORIDE              |
| BVP | BEGIN VERTICAL PROFILE | PVI    | PT. OF VERTICAL INTERSECTION    |
| CB  | CAP WITH BLOW OFF      | PVT    | POINT OF VERTICAL TANGENT       |
| CRR | CURB RETURN RADIUS     | RBCB   | REINFORCED CONCRETE BOX CULVERT |
| EL  | ELEVATION              | RCP    | REINFORCED CONCRETE PIPE        |
| EP  | EDGE OF PAVEMENT       | ROW    | RIGHT OF WAY                    |
| EVC | END VERTICAL CURVE     | SC     | SANITARY CAP                    |
| EVP | END VERTICAL PROFILE   | SD     | STORM DRAIN                     |
| FG  | FINISHED GROUND        | SL     | SECTION LINE                    |
| FH  | FIRE HYDRANT           | SS     | SANITARY SEWER                  |
| FL  | FLOW LINE              | STA    | STATION                         |
| GV  | GATE VALVE             | T.O.P. | TOP OF PIPE                     |
| HCR | HANDICAP CURB RAMP     | UE     | UTILITY EASEMENT                |
| HP  | HIGH POINT             | VC     | VERTICAL CURVE                  |
| INV | INVERT                 | WL     | WATER LINE                      |
| K   | CURVATURE COEFFICIENT  | WLC    | WATER LINE CONNECTION           |
| LF  | LINEAR FEET            | WSE    | WATER SURFACE ELEVATION         |

TRAILS AT CROWFOOT  
FILING 16 CONSTRUCTION DRAWINGS  
SANITARY SEWER PLAN & PROFILE  
FILING 16 SS NORTHWEST

|          |            |
|----------|------------|
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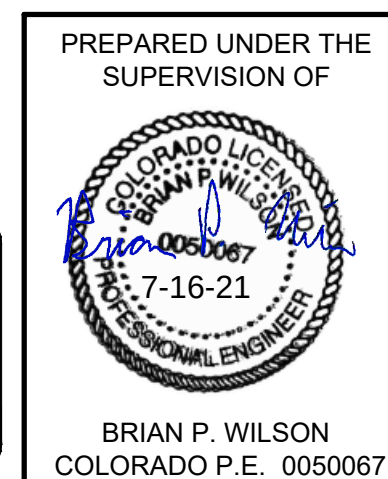
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| DRAWN BY:   | RRR       |
| CHECKED BY: | BPW       |
| DATE:       | JUNE 2018 |

5  
SHEET NUMBER



**BENCHMARK**  
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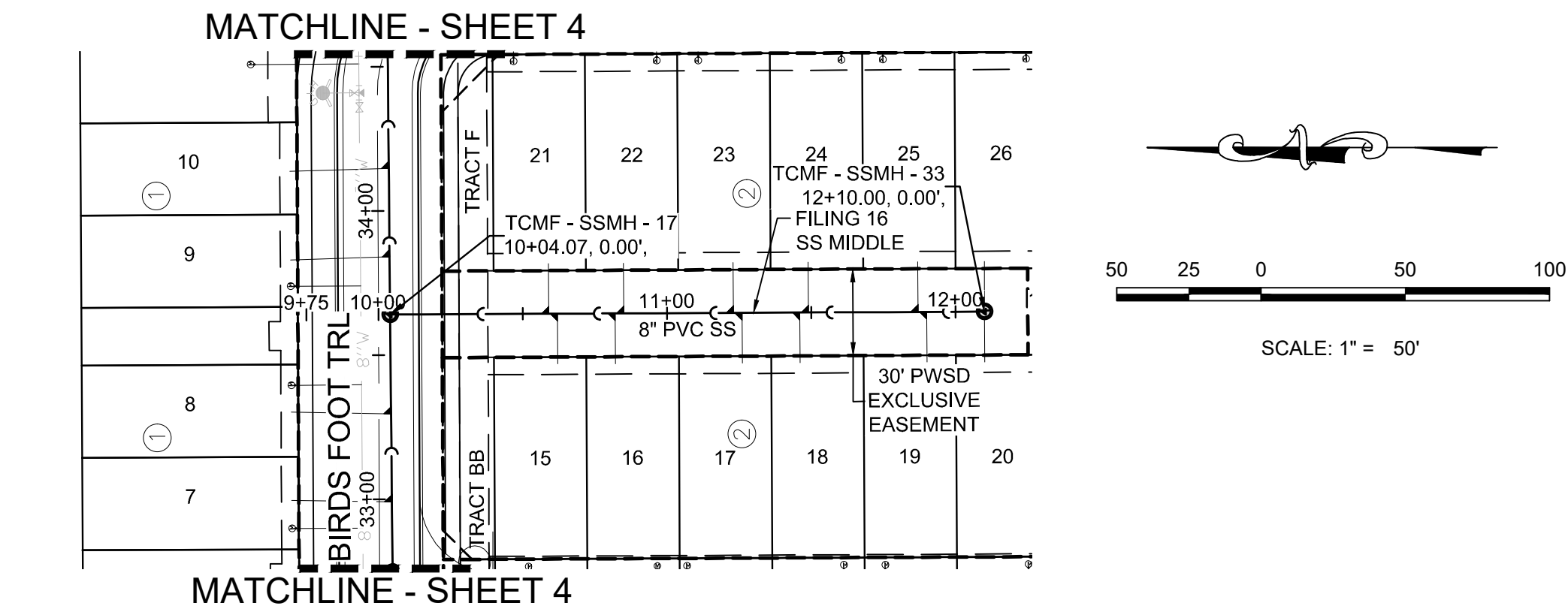
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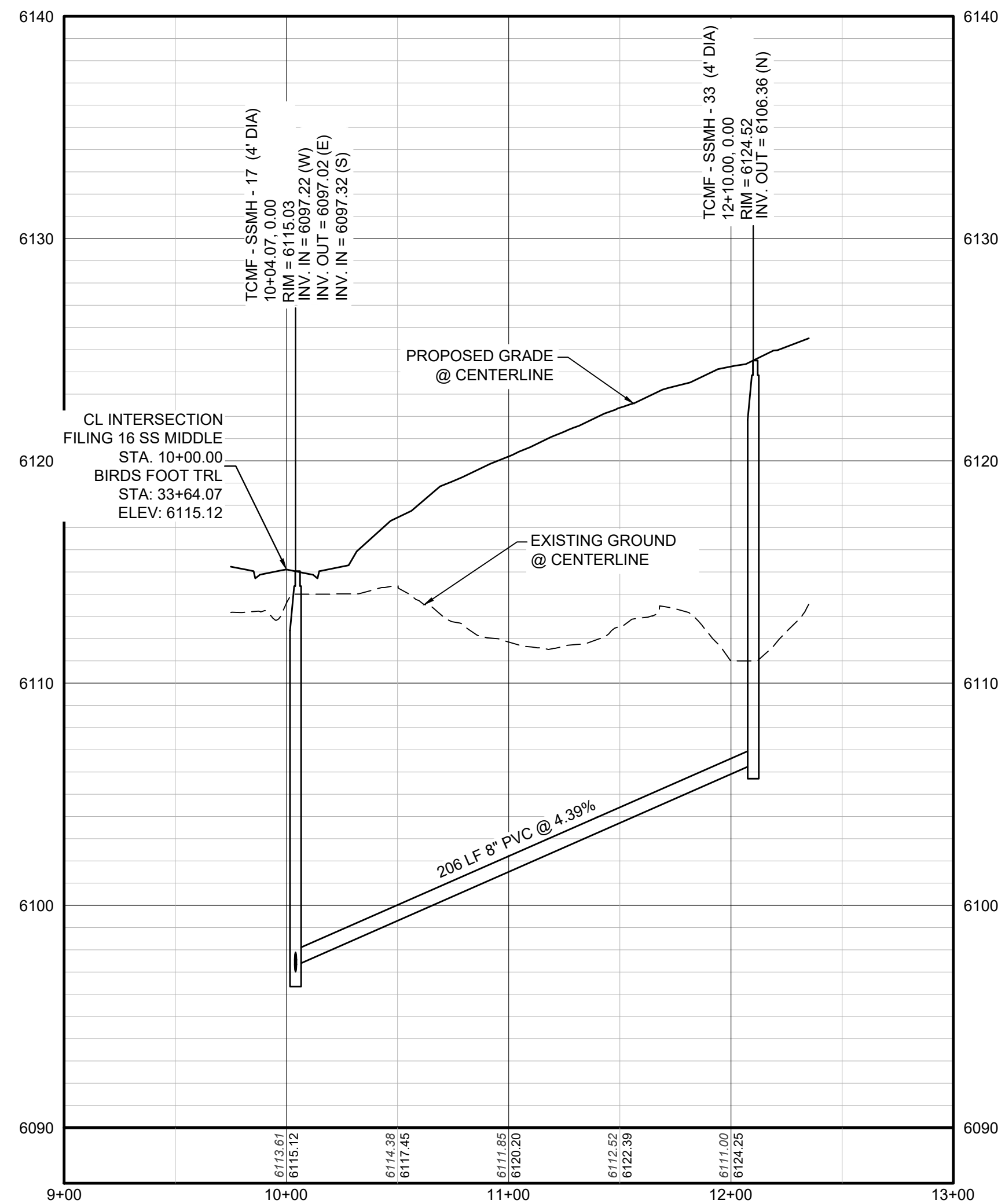
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PLAN: FILING 16 SS MIDDLE STA: 9+00.00 TO 13+00.00  
HORIZONTAL SCALE: 1" = 50'

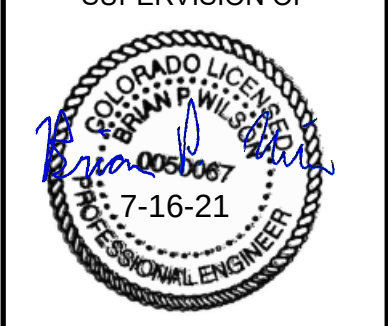


PROFILE: FILING 16 SS MIDDLE STA: 9+00.00 TO 13+00.00  
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VERTICAL: 1" = 5'

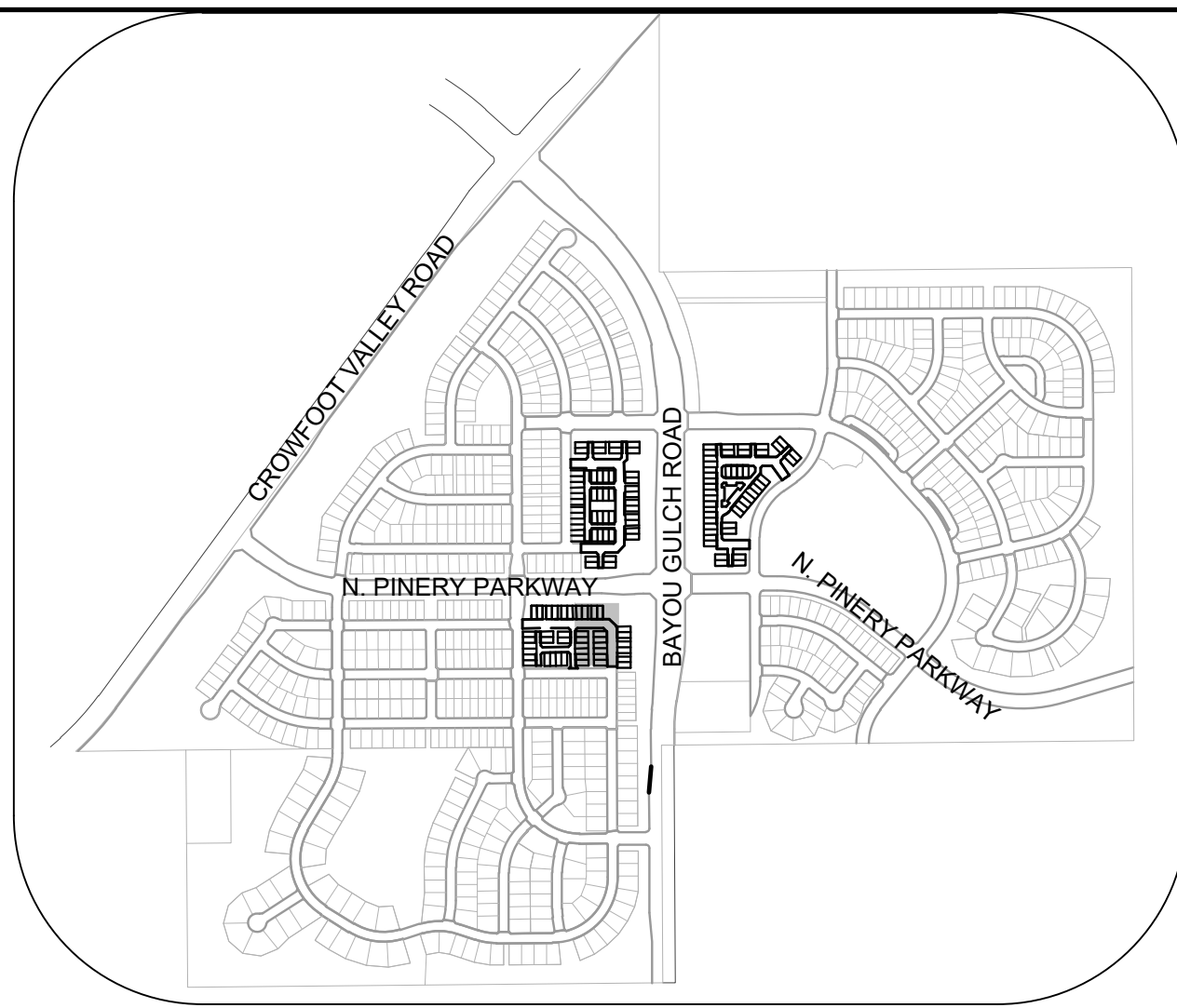
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PREPARED UNDER THE SUPERVISION OF



BRIAN P. WILSON  
COLORADO P.E. 0050067



KEYMAP  
N.T.S.

**LEGEND**

|       |                                       |      |                                  |
|-------|---------------------------------------|------|----------------------------------|
| ②     | BLOCK NUMBER                          | △    | PROPOSED RANGE POINT             |
| Ⓐ     | LOT TYPE                              | ---  | CENTERLINE                       |
| 6     | LOT NUMBER                            | ---  | RIGHT-OF-WAY                     |
| ⊞     | PROPOSED BUTTERFLY VALVE              | ---  | PROPERTY LINE                    |
| ⌈     | PROPOSED CAP WITH END OF LINE BLOWOFF | ---  | EDGE OF PAVEMENT                 |
| ⌋     | PROPOSED REDUCER                      | →    | PROPOSED DIRECTION OF FLOW       |
| ⊞     | PROPOSED VALVE                        | 1.0% | PROPOSED SLOPE & DIRECTION       |
| ⊞     | PROPOSED FIRE HYDRANT                 | 5615 | EXISTING 5' CONTOUR              |
| ⊞     | PROPOSED WL FITTING WITH THRUST BLOCK | 5616 | EXISTING 1' CONTOUR              |
| ⌈     | PROPOSED FLARED END SECTION           | 5620 | PROPOSED 5' CONTOUR              |
| ⊞     | PROPOSED LOW POINT BLOW-OFF           | 5607 | PROPOSED 1' CONTOUR              |
| ⊞     | PROPOSED AIR VALVE                    | ---  | PROPOSED STORM DRAIN             |
| ⊞     | FUTURE PHASE VALVE                    | ---  | PROPOSED SEWER LINE WITH MANHOLE |
| ⊞     | FUTURE FIRE HYDRANT                   | ---  | PROPOSED SEWER LATERAL           |
| ⊞     | PROPOSED LIGHT POLE                   | 8"W  | PROPOSED WATER LINE              |
| ⊞     | PROPOSED SIDEWALK RAMP                | ---  | PROPOSED WATER LATERAL W/ METER  |
| 10.00 | EXISTING ELEVATION                    | ---  | SECTION LINE                     |
| 10.00 | PROPOSED DESIGN ELEVATION             | ---  | FILING BOUNDARY                  |
| ⊞     | PROPOSED STORM DRAIN INLET            | FO   | EXISTING FIBER OPTIC LINE        |
| ⊞     | PROPOSED STORM DRAIN MANHOLE          | OH   | EXISTING OVERHEAD POWER          |
| ⊞     |                                       | TEL  | EXISTING TELEPHONE LINE          |
|       |                                       | ---  | PWSD EASEMENT                    |
|       |                                       | ---  | TYP. EASEMENT                    |

**ABBREVIATIONS**

|     |                        |        |                                 |
|-----|------------------------|--------|---------------------------------|
| AD  | ANGLE DIFFERENCE       | MH     | MANHOLE                         |
| AV  | AIR VAC RELEASE VALVE  | N.T.S. | NOT TO SCALE                    |
| BVC | BEGIN VERTICAL CURVE   | PVC    | POLYVINYL CHLORIDE              |
| BVP | BEGIN VERTICAL PROFILE | PVI    | PT. OF VERTICAL INTERSECTION    |
| CBO | CAP WITH BLOW OFF      | PVT    | POINT OF VERTICAL TANGENT       |
| CRR | CURB RETURN RADIUS     | RCBC   | REINFORCED CONCRETE BOX CULVERT |
| EL  | ELEVATION              | RCP    | REINFORCED CONCRETE PIPE        |
| EP  | EDGE OF PAVEMENT       | ROW    | RIGHT OF WAY                    |
| EVC | END VERTICAL CURVE     | SC     | SANITARY CAP                    |
| EVP | END VERTICAL PROFILE   | SD     | STORM DRAIN                     |
| FG  | FINISHED GROUND        | SL     | SECTION LINE                    |
| FH  | FIRE HYDRANT           | SS     | SANITARY SEWER                  |
| FL  | FLOW LINE              | STA    | STATION                         |
| GV  | GATE VALVE             | T.O.P. | TOP OF PIPE                     |
| HCR | HANDICAP CURB RAMP     | UE     | UTILITY EASEMENT                |
| HP  | HIGH POINT             | VC     | VERTICAL CURVE                  |
| INV | INVERT                 | WL     | WATER LINE                      |
| K   | CURVATURE COEFFICIENT  | WLC    | WATER LINE CONNECTION           |
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|              |               |                 |                 |                 |                     |                                                                                                                  |                                                            |                                                                                     |                                                                                                                    |           |       |       |      |
|--------------|---------------|-----------------|-----------------|-----------------|---------------------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------|-------|-------|------|
| SHEET NUMBER | DRAWN BY: RRR | CHECKED BY: BPW | DATE: JUNE 2018 | SCALE: AS SHOWN | FILE NO: 8130283701 | TRAILS AT CROWFOOT<br>FILING 16 CONSTRUCTION DRAWINGS<br>SANITARY SEWER PLAN & PROFILE<br>FILING 16 SS NORTHEAST | HR 935 LLC<br>7353 South Alton Way<br>CENTENNIAL, CO 80112 |  | 10333 E. Dry Creek Rd.<br>Suite 240<br>Englewood, CO 80112<br>Tel: 720.482.952<br>www.cvlinc.net<br>westwoodpa.com | Revisions | Init. | Appr. | Date |
|              |               |                 |                 |                 |                     |                                                                                                                  |                                                            |                                                                                     |                                                                                                                    |           | No.   |       |      |
|              |               |                 |                 |                 |                     |                                                                                                                  |                                                            |                                                                                     |                                                                                                                    |           |       |       |      |
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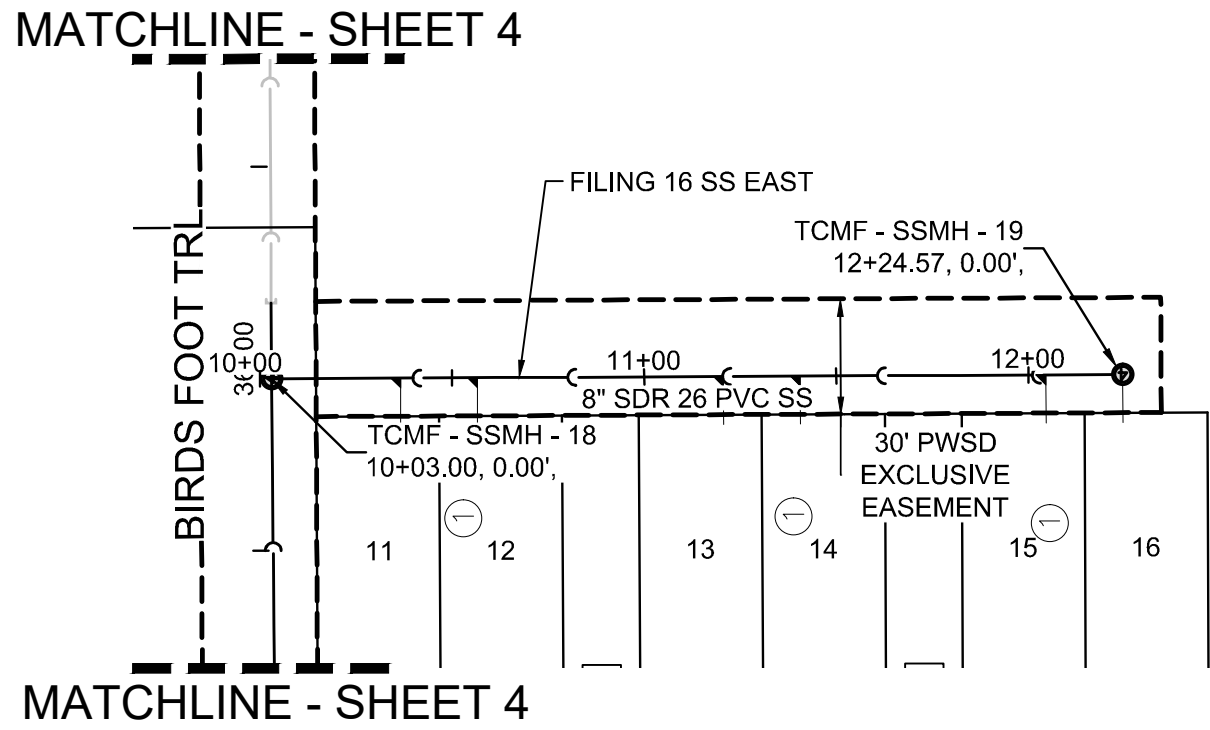
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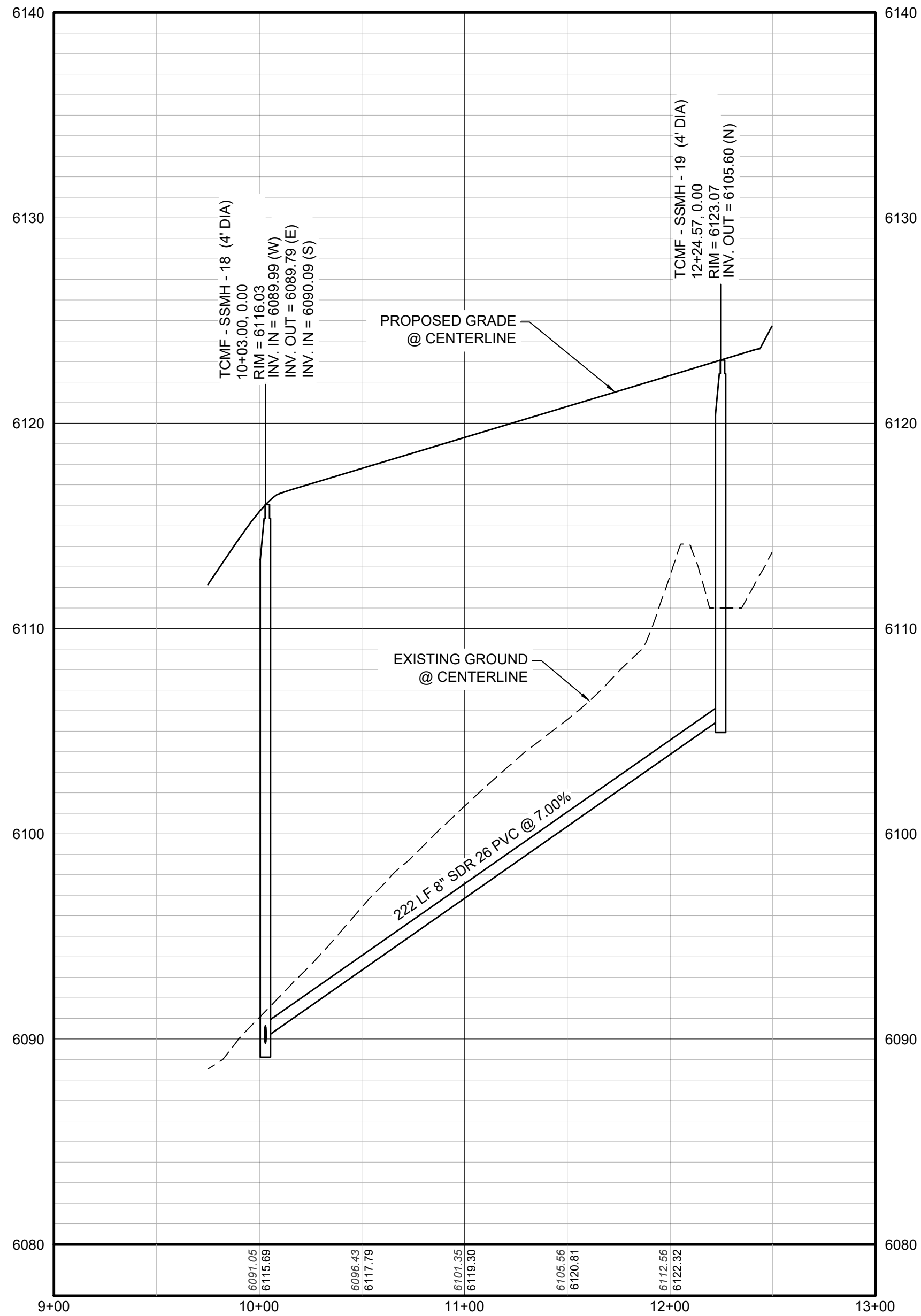
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HORIZONTAL SCALE: 1" = 50'

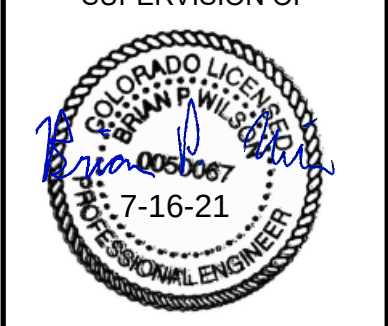


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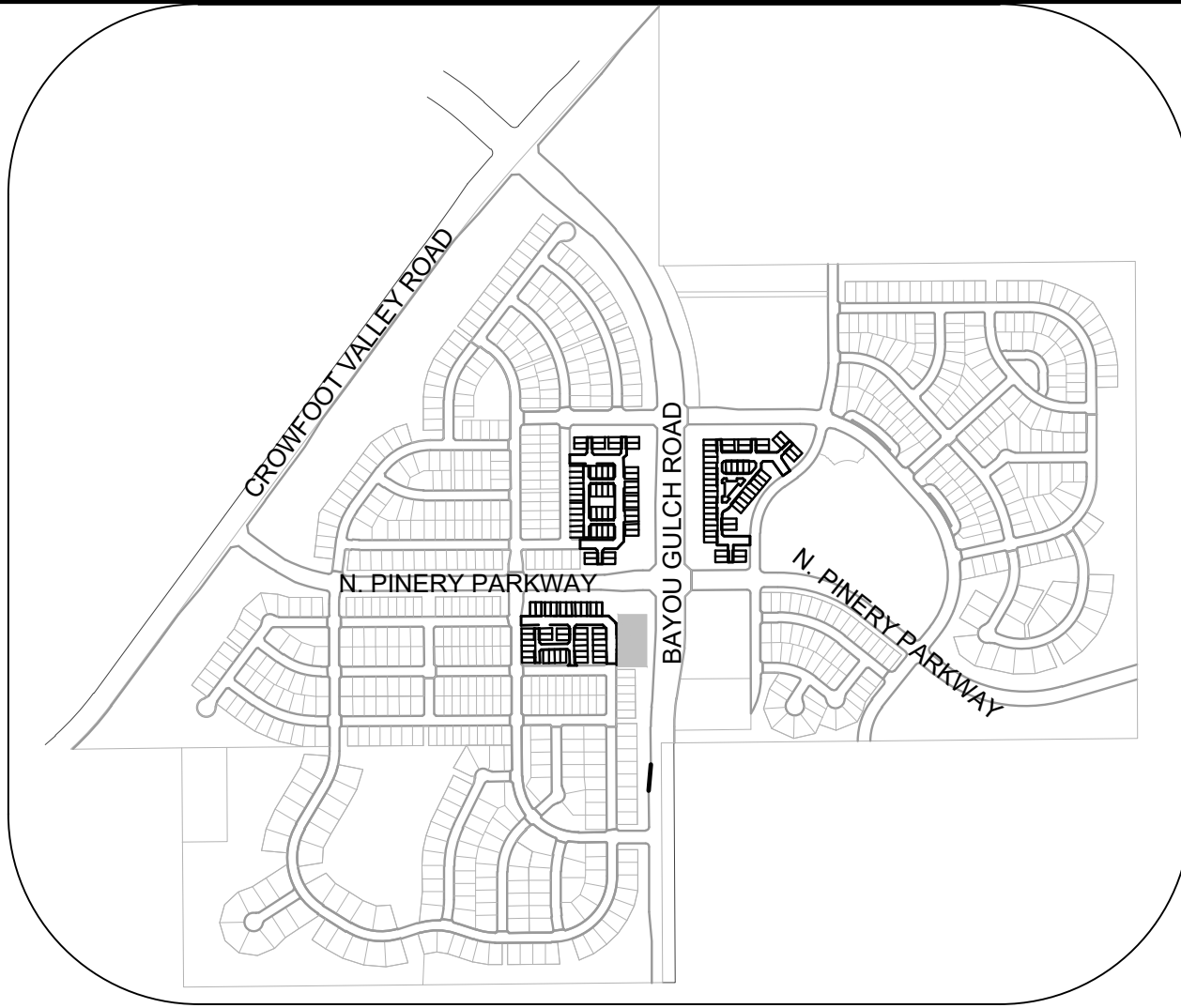
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KEYMAP  
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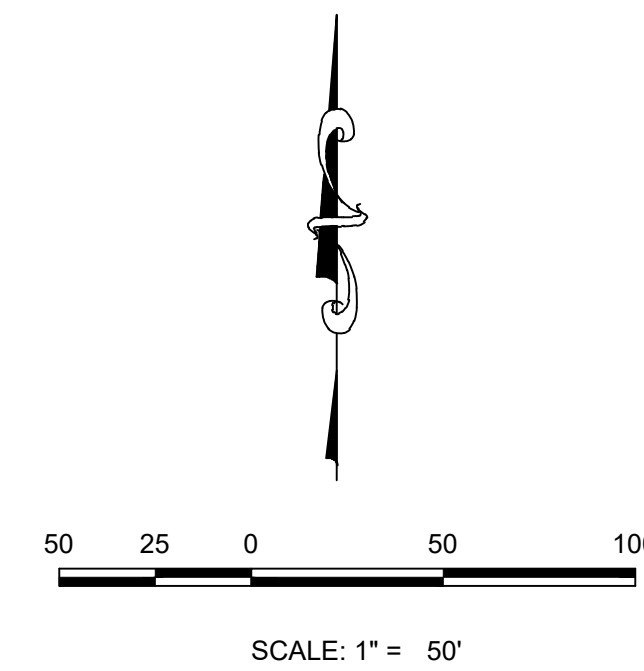
#### LEGEND

|       |                                       |      |                                  |
|-------|---------------------------------------|------|----------------------------------|
| ②     | BLOCK NUMBER                          | △    | PROPOSED RANGE POINT             |
| Ⓐ     | LOT TYPE                              | ---  | CENTERLINE                       |
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| Ⓜ     | PROPOSED BUTTERFLY VALVE              | ---  | PROPERTY LINE                    |
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| Ⓜ     | PROPOSED REDUCER                      | →    | PROPOSED DIRECTION OF FLOW       |
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| Ⓜ     | FUTURE PHASE VALVE                    | ---  | PROPOSED SEWER LINE WITH MANHOLE |
| Ⓜ     | FUTURE FIRE HYDRANT                   | ---  | PROPOSED SEWER LATERAL           |
| Ⓜ     | PROPOSED LIGHT POLE                   | 8" W | PROPOSED WATER LINE              |
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| Ⓜ     |                                       | TEL  | EXISTING TELEPHONE LINE          |
| Ⓜ     |                                       | ---  | PWSD EASEMENT                    |
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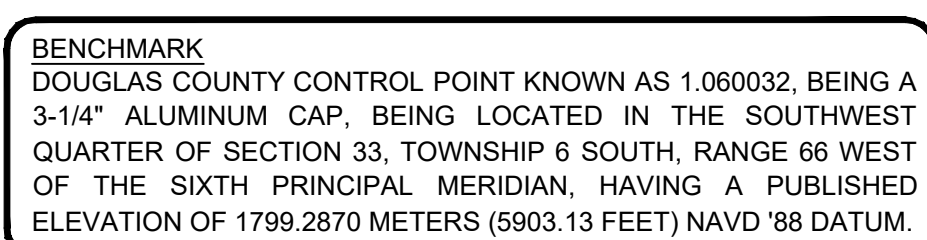
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| AV  | AIR VAC RELEASE VALVE  | N.T.S. | NOT TO SCALE                    |
| BVC | BEGIN VERTICAL CURVE   | PVC    | POLYVINYL CHLORIDE              |
| BVP | BEGIN VERTICAL PROFILE | PVI    | PT. OF VERTICAL INTERSECTION    |
| CBO | CAP WITH BLOW OFF      | PVT    | POINT OF VERTICAL TANGENT       |
| CRR | CURB RETURN RADIUS     | RCBC   | REINFORCED CONCRETE BOX CULVERT |
| EL  | ELEVATION              | ROP    | REINFORCED CONCRETE PIPE        |
| EP  | EDGE OF PAVEMENT       | ROW    | RIGHT OF WAY                    |
| EVC | END VERTICAL CURVE     | SC     | SANITARY CAP                    |
| EVP | END VERTICAL PROFILE   | SD     | STORM DRAIN                     |
| FG  | FINISHED GROUND        | SL     | SECTION LINE                    |
| FH  | FIRE HYDRANT           | SS     | SANITARY SEWER                  |
| FL  | FLOW LINE              | STA    | STATION                         |
| GV  | GATE VALVE             | T.O.P. | TOP OF PIPE                     |
| HCR | HANDICAP CURB RAMP     | UE     | UTILITY EASEMENT                |
| HP  | HIGH POINT             | VC     | VERTICAL CURVE                  |
| INV | INVERT                 | WL     | WATER LINE                      |
| K   | CURVATURE COEFFICIENT  | WLC    | WATER LINE CONNECTION           |
| LF  | LINEAR FEET            | WSE    | WATER SURFACE ELEVATION         |

|              |               |                 |                 |                 |                     |                                                                                                                 |                                                            |                                                                                                        |                                                                                                                    |           |      |      |      |
|--------------|---------------|-----------------|-----------------|-----------------|---------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------|------|------|------|
| SHEET NUMBER | DRAWN BY: RRR | CHECKED BY: BPW | DATE: JUNE 2018 | SCALE: AS SHOWN | FILE NO: 8130283701 | TRAILS AT CROWFOOT<br>FILING 16 CONSTRUCTION DRAWINGS<br>SANITARY SEWER PLAN & PROFILE<br>7 - FILING 16 SS EAST | HR 935 LLC<br>7353 South Alton Way<br>CENTENNIAL, CO 80112 | <br>a Westwood team | 10333 E. Dry Creek Rd.<br>Suite 240<br>Englewood, CO 80112<br>Tel: 720.482.952<br>www.cvlinc.net<br>westwoodpa.com | Revisions | Init | Appr | Date |
|              |               |                 |                 |                 |                     |                                                                                                                 |                                                            |                                                                                                        |                                                                                                                    |           |      |      |      |
|              |               |                 |                 |                 |                     |                                                                                                                 |                                                            |                                                                                                        |                                                                                                                    |           |      |      |      |
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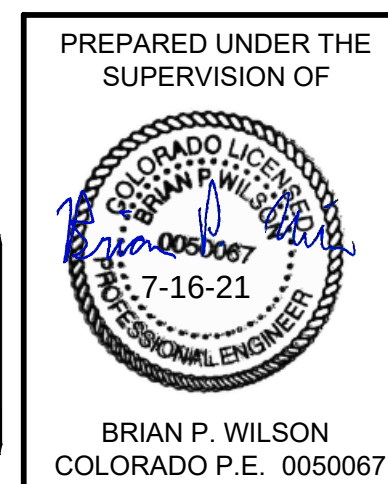


|                                                                                       |                                        |                                                                                       |                                  |
|---------------------------------------------------------------------------------------|----------------------------------------|---------------------------------------------------------------------------------------|----------------------------------|
|    | BLOCK NUMBER                           |    | PROPOSED RANGE POINT             |
|    | LOT TYPE                               |    | CENTERLINE                       |
| 6                                                                                     | LOT NUMBER                             |    | RIGHT-OF-WAY                     |
|    | PROPOSED BUTTERFLY VALVE               |    | PROPERTY LINE                    |
|    | PROPOSED CAP WITH END OF LINE BLOW-OFF |    | EDGE OF PAVEMENT                 |
|    | PROPOSED REDUCER                       |    | PROPOSED DIRECTION OF FLOW       |
|    | PROPOSED VALVE                         |    | PROPOSED SLOPE & DIRECTION       |
|    | PROPOSED FIRE HYDRANT                  |    | EXISTING 5' CONTOUR              |
|    | PROPOSED WL FITTING WITH THRUST BLOCK  |    | EXISTING 1' CONTOUR              |
|    | PROPOSED FLARED END SECTION            |    | PROPOSED 5' CONTOUR              |
|    | PROPOSED LOW POINT BLOW-OFF            |   | PROPOSED 1' CONTOUR              |
|  | PROPOSED AIR VALVE                     |  | PROPOSED STORM DRAIN             |
|  | FUTURE PHASE VALVE                     |  | PROPOSED SEWER LINE WITH MANHOLE |
|  | FUTURE FIRE HYDRANT                    |  | PROPOSED SEWER LATERAL           |
|  | PROPOSED LIGHT POLE                    |  | PROPOSED WATER LINE              |
|  | PROPOSED SIDEWALK                      |  | PROPOSED WATER LATERAL W/ METER  |
|  | PROPOSED SIDEWALK RAMP                 |  | SECTION LINE                     |
| 10.00                                                                                 | EXISTING ELEVATION                     |  | FILING BOUNDARY                  |
| 10.00                                                                                 | PROPOSED DESIGN ELEVATION              |  | EXISTING FIBER OPTIC LINE        |
|  | PROPOSED STORM DRAIN INLET             |  | EXISTING OVERHEAD POWER          |
|  | PROPOSED STORM DRAIN MANHOLE           |  | EXISTING TELEPHONE LINE          |
|                                                                                       |                                        |  | PWSd EASEMENT                    |
|                                                                                       |                                        |  | TYP. EASEMENT                    |

|     |                        |        |                                 |
|-----|------------------------|--------|---------------------------------|
| AD  | ANGLE DIFFERENCE       | MH     | MANHOLE                         |
| AV  | AIR VAC RELEASE VALVE  | N.T.S. | NOT TO SCALE                    |
| BVC | BEGIN VERTICAL CURVE   | PVC    | POLYVINYL CHLORIDE              |
| BVP | BEGIN VERTICAL PROFILE | PVI    | PT. OF VERTICAL INTERSECTION    |
| CBO | CAP WITH BLOW OFF      | PVT    | POINT OF VERTICAL TANGENT       |
| CRR | CURB RETURN RADIUS     | RCBC   | REINFORCED CONCRETE BOX CULVERT |
| EL  | ELEVATION              | RCP    | REINFORCED CONCRETE PIPE        |
| EP  | EDGE OF PAVEMENT       | ROW    | RIGHT OF WAY                    |
| EVC | END VERTICAL CURVE     | SC     | SANITARY CAP                    |
| EVP | END VERTICAL PROFILE   | SD     | STORM DRAIN                     |
| FG  | FINISHED GROUND        | SL     | SECTION LINE                    |
| FH  | FIRE HYDRANT           | SS     | SANITARY SEWER                  |
| FL  | FLOW LINE              | STA    | STATION                         |
| GV  | GATE VALVE             | T.O.P. | TOP OF PIPE                     |
| HCR | HANDICAP CURB RAMP     | UE     | UTILITY EASEMENT                |
| HP  | HIGH POINT             | VC     | VERTICAL CURVE                  |
| INV | INVERT                 | WL     | WATER LINE                      |
| K   | CURVATURE COEFFICIENT  | WLC    | WATER LINE CONNECTION           |
| LF  | LINEAR FEET            | WSE    | WATER SURFACE ELEVATION         |



**BASIS OF BEARINGS:**  
THE EAST LINE OF THE NORTHEAST 1/4 SECTION 9 BEING MONUMENTED AT THE NORTH CORNER OF SECTION 9 BY A 3-1/4" ALUMINUM CAP STAMPED LS 6935 B 1993 SOUTH 00°15'06" EAST, 2648.70 FEET.



|                              |                    |                        |                                                                                                                 |                                                                                                                                                                                                                                                                                                              |                                                                          |
|------------------------------|--------------------|------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| SHEET NUMBER<br><br><b>8</b> | DRAWN BY:<br>RRR   | SCALE:<br>AS SHOWN     | <b>TRAILS AT CROWFOOT</b><br><b>FILING 16 CONSTRUCTION DRAWINGS</b><br>WATER PLAN & PROFILE<br>BIRDS FOOT TRAIL | <br><b>a Westwood team</b><br>10333 E. Dry Creek Rd.<br>Suite 240<br>Englewood, CO 80112<br>Tel: 720.482.9552<br><a href="http://www.cvlinc.net">www.cvlinc.net</a><br><a href="http://westwoodps.com">westwoodps.com</a> | No. _____<br>Revisions _____<br>Date _____<br>Init. _____<br>Appr. _____ |
|                              | CHECKED BY:<br>BPW | FILE NO:<br>8130283701 |                                                                                                                 |                                                                                                                                                                                                                                                                                                              |                                                                          |

N:\PROJECTS\HSS RANCH\CAD\ENGINEERING\SSHEETS\MULTIFAMILY\CD\SET\16 PARKER WATER AND SANITATION\WATER PIPING\HOP CLOVER TRAIL.DWG, DTD: 06/11/2021 12:42 PM



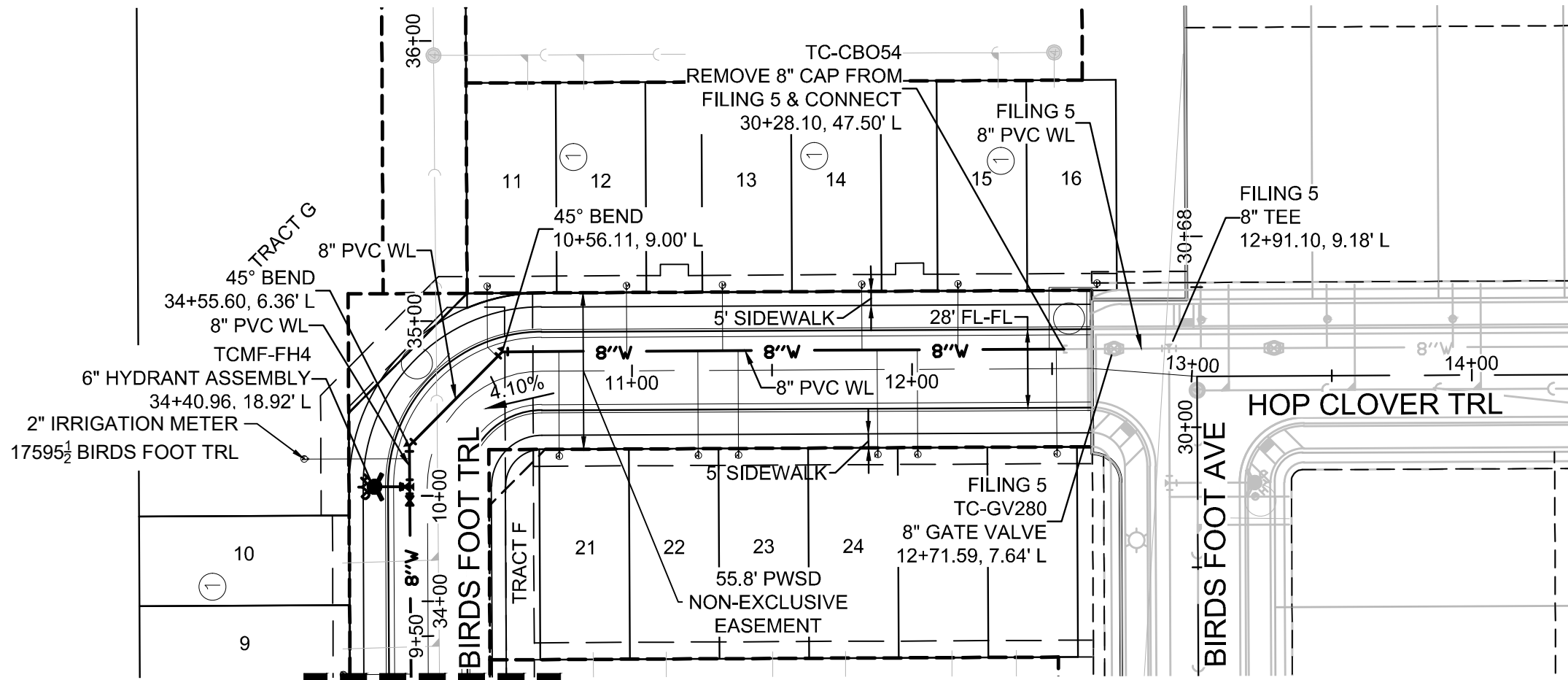
UNCC  
UTILITY NOTIFICATION  
CENTER OF COLORADO

CALL 811

TWO WORKING DAYS

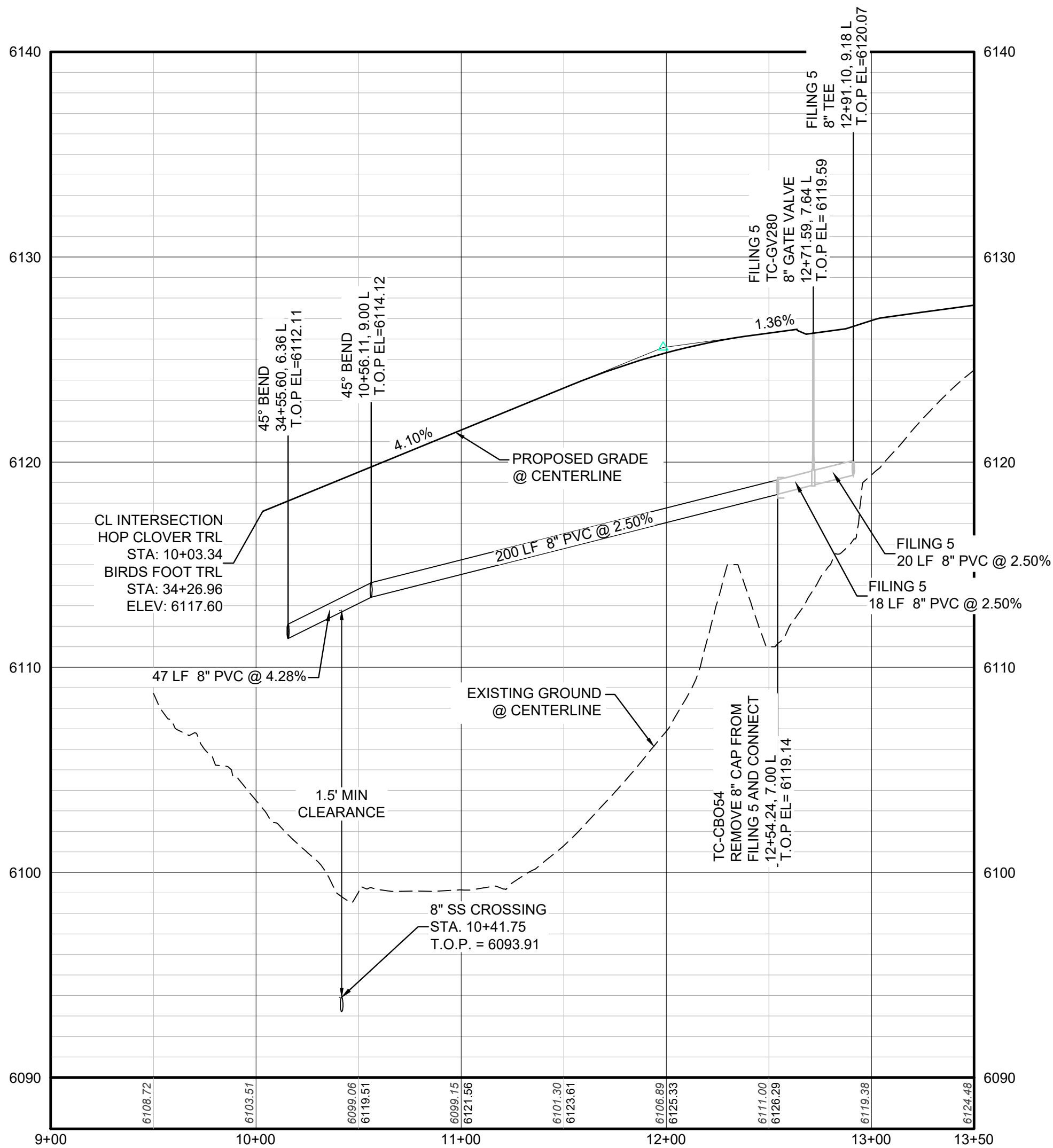
BEFORE YOU DIG

1-800-922-1987



MATCHLINE - SHEET 8

PLAN: HOP CLOVER TRL STA: 9+50.00 TO 14+00.00  
HORIZONTAL SCALE: 1" = 50'



PROFILE: HOP CLOVER TRL STA: 9+00.00 TO 13+50.00  
HORIZONTAL: 1" = 50'  
VERTICAL: 1" = 5'

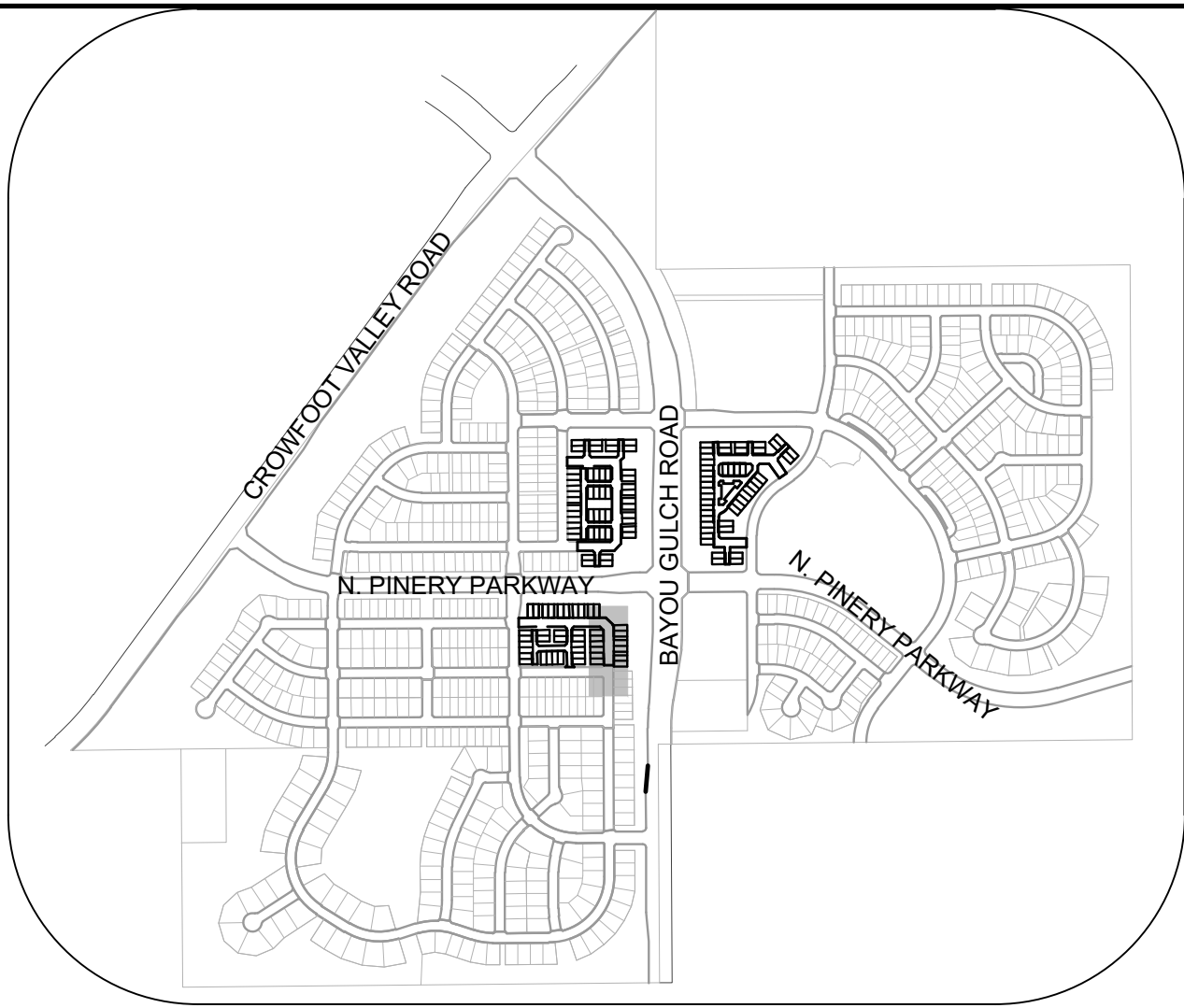
**BENCHMARK**  
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A 3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

**BASIS OF BEARINGS:**  
THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 9 BEING MONUMENTED AT THE NORTHEAST CORNER OF SAID SECTION 9 BY A 3-1/4" ALUMINUM CAP STAMPED LS 23053 AND AT THE EAST QUARTER CORNER OF SAID SECTION 9 BY A 2-1/2" ALUMINUM CAP STAMPED LS 6935 BEING CONSIDERED TO BEAR SOUTH 00°15'06" EAST, 2648.70 FEET.

PREPARED UNDER THE SUPERVISION OF



BRIAN P. WILSON  
COLORADO P.E. 0050067



KEYMAP  
N.T.S.

### LEGEND

|       |                                       |      |                                  |
|-------|---------------------------------------|------|----------------------------------|
| ②     | BLOCK NUMBER                          | △    | PROPOSED RANGE POINT             |
| Ⓐ     | LOT TYPE                              | ---  | CENTERLINE                       |
| 6     | LOT NUMBER                            | ---  | RIGHT-OF-WAY                     |
| ⊞     | PROPOSED BUTTERFLY VALVE              | ---  | PROPERTY LINE                    |
| ⌋     | PROPOSED CAP WITH END OF LINE BLOWOFF | ---  | EDGE OF PAVEMENT                 |
| ⌋     | PROPOSED REDUCER                      | →    | PROPOSED DIRECTION OF FLOW       |
| ⊞     | PROPOSED VALVE                        | 1.0% | PROPOSED SLOPE & DIRECTION       |
| ⊞     | PROPOSED FIRE HYDRANT                 | 5615 | EXISTING 5' CONTOUR              |
| ⊞     | PROPOSED WL FITTING WITH THRUST BLOCK | 5616 | EXISTING 1' CONTOUR              |
| ⌋     | PROPOSED FLARED END SECTION           | 5620 | PROPOSED 5' CONTOUR              |
| ⊞     | PROPOSED LOW POINT BLOW-OFF           | 5607 | PROPOSED 1' CONTOUR              |
| ⊞     | PROPOSED AIR VALVE                    | ---  | PROPOSED STORM DRAIN             |
| ⊞     | FUTURE PHASE VALVE                    | ---  | PROPOSED SEWER LINE WITH MANHOLE |
| ⊞     | FUTURE FIRE HYDRANT                   | ---  | PROPOSED SEWER LATERAL           |
| ⊞     | PROPOSED LIGHT POLE                   | ---  | PROPOSED WATER LINE              |
| ⊞     | PROPOSED SIDEWALK                     | ---  | PROPOSED WATER LATERAL W/ METER  |
| ⊞     | PROPOSED SIDEWALK RAMP                | ---  | SECTION LINE                     |
| 10.00 | EXISTING ELEVATION                    | ---  | FILING BOUNDARY                  |
| 10.00 | PROPOSED DESIGN ELEVATION             | ---  | EXISTING FIBER OPTIC LINE        |
| ⊞     | PROPOSED STORM DRAIN INLET            | ---  | EXISTING OVERHEAD POWER          |
| ⊞     | PROPOSED STORM DRAIN MANHOLE          | ---  | EXISTING TELEPHONE LINE          |
| ⊞     |                                       | ---  | PWSD EASEMENT                    |
| ⊞     |                                       | ---  | TYP. EASEMENT                    |

### ABBREVIATIONS

|     |                        |        |                                 |
|-----|------------------------|--------|---------------------------------|
| AD  | ANGLE DIFFERENCE       | MH     | MANHOLE                         |
| AV  | AIR VAC RELEASE VALVE  | N.T.S. | NOT TO SCALE                    |
| BVC | BEGIN VERTICAL CURVE   | PVC    | POLYVINYL CHLORIDE              |
| BVP | BEGIN VERTICAL PROFILE | PVI    | PT. OF VERTICAL INTERSECTION    |
| CBO | CAP WITH BLOW OFF      | PVT    | POINT OF VERTICAL TANGENT       |
| CRR | CURB RETURN RADIUS     | RCBC   | REINFORCED CONCRETE BOX CULVERT |
| EL  | ELEVATION              | ROP    | REINFORCED CONCRETE PIPE        |
| EP  | EDGE OF PAVEMENT       | ROW    | RIGHT OF WAY                    |
| EVC | END VERTICAL CURVE     | SC     | SANITARY CAP                    |
| EVP | END VERTICAL PROFILE   | SD     | STORM DRAIN                     |
| FG  | FINISHED GROUND        | SL     | SECTION LINE                    |
| FH  | FIRE HYDRANT           | SS     | SANITARY SEWER                  |
| FL  | FLOW LINE              | STA    | STATION                         |
| GV  | GATE VALVE             | T.O.P. | TOP OF PIPE                     |
| HCR | HANDICAP CURB RAMP     | UE     | UTILITY EASEMENT                |
| HP  | HIGH POINT             | VC     | VERTICAL CURVE                  |
| INV | INVERT                 | WL     | WATER LINE                      |
| K   | CURVATURE COEFFICIENT  | WLC    | WATER LINE CONNECTION           |
| LF  | LINEAR FEET            | WSE    | WATER SURFACE ELEVATION         |

|              |           |     |             |     |       |           |        |          |          |            |                                                                                                   |                                                            |                                                                                                        |                                                                                                                    |           |      |      |      |      |
|--------------|-----------|-----|-------------|-----|-------|-----------|--------|----------|----------|------------|---------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------|------|------|------|------|
| SHEET NUMBER | DRAWN BY: | RRR | CHECKED BY: | BPW | DATE: | JUNE 2018 | SCALE: | AS SHOWN | FILE NO: | 8130283701 | TRAILS AT CROWFOOT<br>FILING 16 CONSTRUCTION DRAWINGS<br>WATER PLAN & PROFILE<br>HOP CLOVER TRAIL | HR 935 LLC<br>7353 South Alton Way<br>CENTENNIAL, CO 80112 | <br>a Westwood team | 10333 E. Dry Creek Rd.<br>Suite 240<br>Englewood, CO 80112<br>Tel: 720.482.952<br>www.cvlinc.net<br>westwoodpa.com | Revisions | Date | Init | Appr | Date |
|              |           |     |             |     |       |           |        |          |          |            |                                                                                                   |                                                            |                                                                                                        |                                                                                                                    |           |      |      |      |      |
|              |           |     |             |     |       |           |        |          |          |            |                                                                                                   |                                                            |                                                                                                        |                                                                                                                    |           |      |      |      |      |
|              |           |     |             |     |       |           |        |          |          |            |                                                                                                   |                                                            |                                                                                                        |                                                                                                                    |           |      |      |      |      |

N:\PROJECTS\SSR RANCH\CAD\ENGINEERING\SSR SHEET SETS\MULTIFAMILY\CD\SET\0\PARKER WATER AND SANITATION\WATER\BAP\ALPINE LILY LN.DWG, DTTORIN, 6/4/2021 12:46 PM



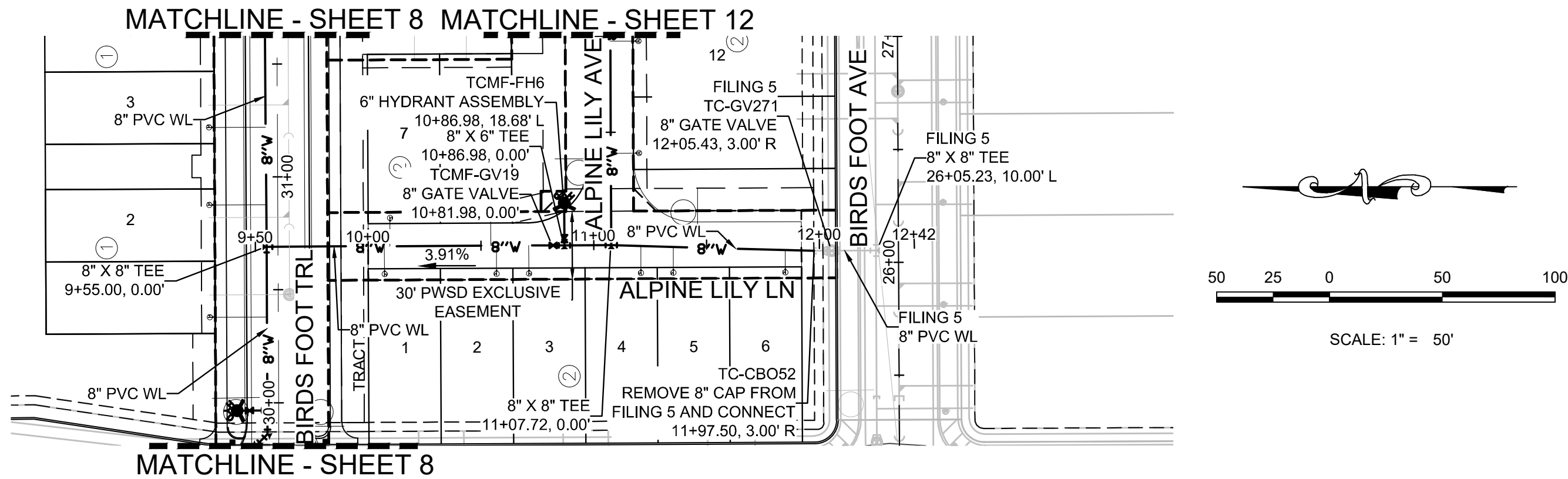
UNCC  
UTILITY NOTIFICATION  
CENTER OF COLORADO

CALL 811

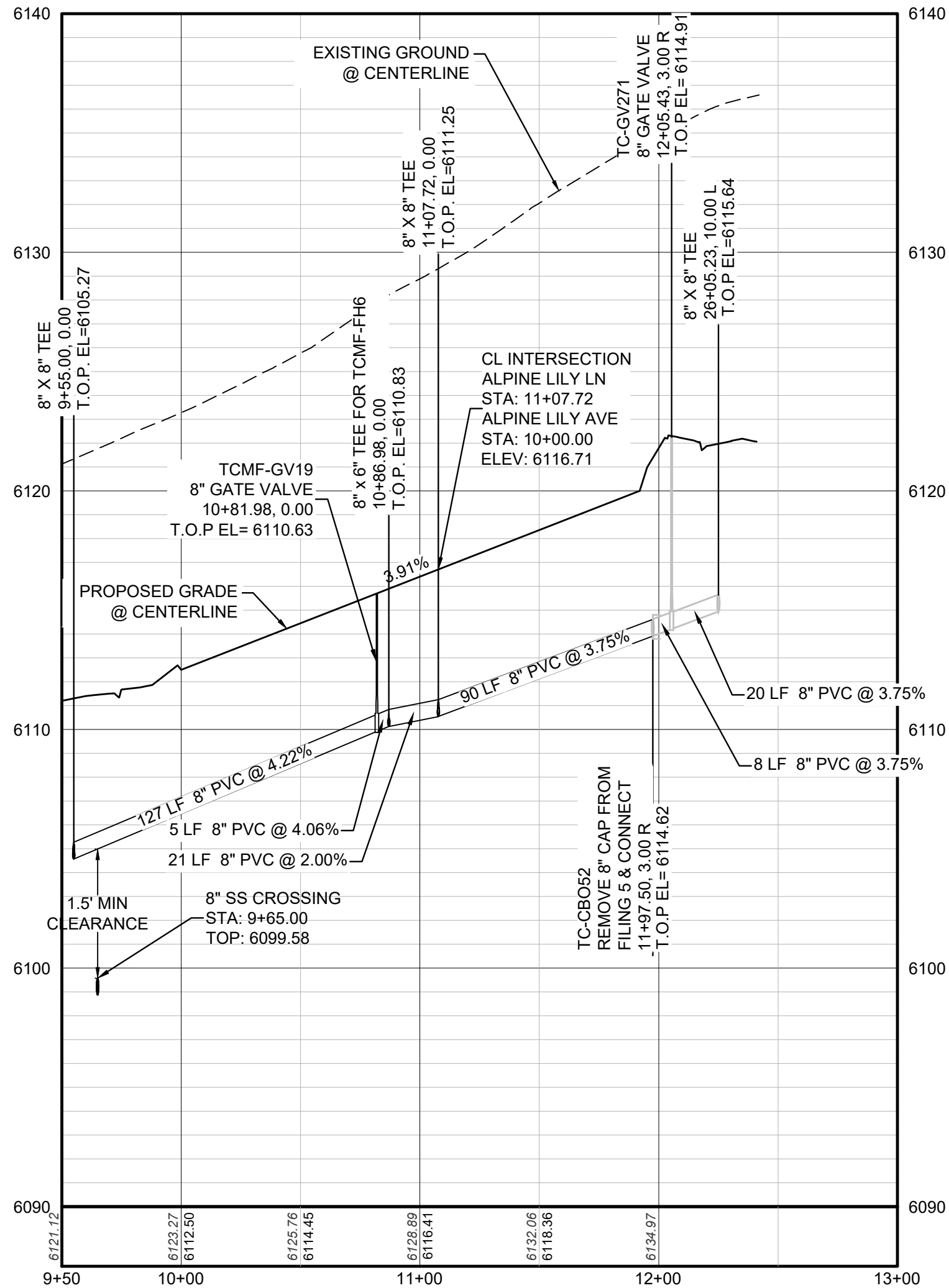
TWO WORKING DAYS

BEFORE YOU DIG

1-800-922-1987



PLAN: ALPINE LILY LN STA: 9+50.00 TO 13+50.00  
HORIZONTAL SCALE: 1" = 50'

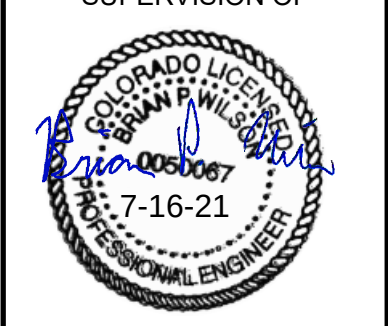


PROFILE: ALPINE LILY LN STA: 9+50.00 TO 13+00.00  
HORIZONTAL: 1" = 50'  
VERTICAL: 1" = 5'

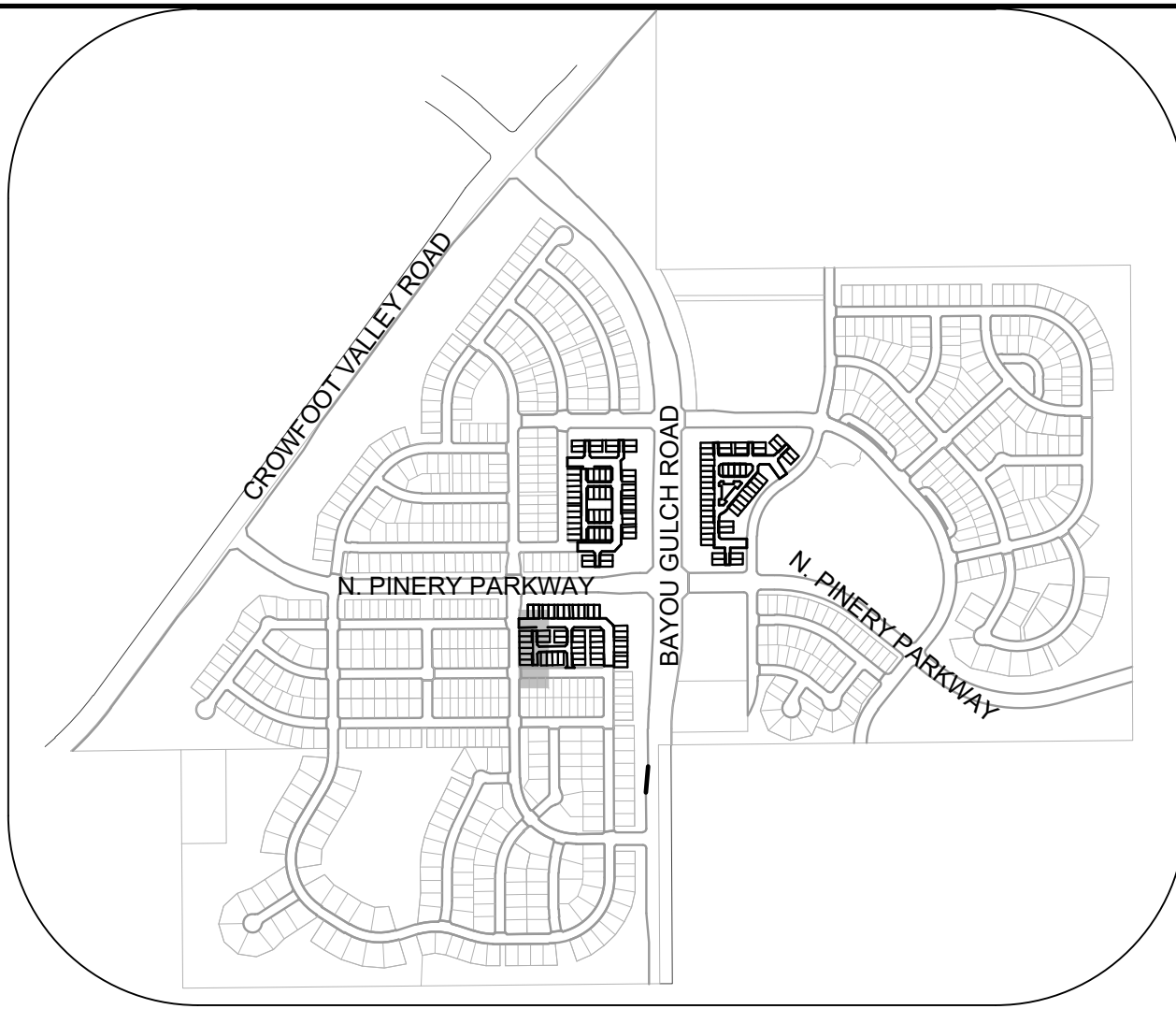
**BENCHMARK**  
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A 3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

**BASIS OF BEARINGS:**  
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PREPARED UNDER THE SUPERVISION OF



BRIAN P. WILSON  
COLORADO P.E. 0050067



KEYMAP  
N.T.S.

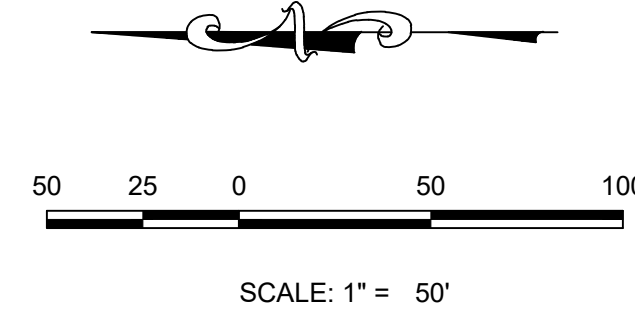
LEGEND

|       |                                       |      |                                  |
|-------|---------------------------------------|------|----------------------------------|
| ②     | BLOCK NUMBER                          | △    | PROPOSED RANGE POINT             |
| Ⓐ     | LOT TYPE                              | ---  | CENTERLINE                       |
| 6     | LOT NUMBER                            | ---  | RIGHT-OF-WAY                     |
| ⊞     | PROPOSED BUTTERFLY VALVE              | ---  | PROPERTY LINE                    |
| ⌈     | PROPOSED CAP WITH END OF LINE BLOWOFF | ---  | EDGE OF PAVEMENT                 |
| ⌋     | PROPOSED REDUCER                      | →    | PROPOSED DIRECTION OF FLOW       |
| ⊞     | PROPOSED VALVE                        | 1.0% | PROPOSED SLOPE & DIRECTION       |
| ⊞     | PROPOSED FIRE HYDRANT                 | 5615 | EXISTING 5' CONTOUR              |
| ⊞     | PROPOSED WL FITTING WITH THRUST BLOCK | 5616 | EXISTING 1' CONTOUR              |
| ⊞     | PROPOSED FLARED END SECTION           | 5620 | PROPOSED 5' CONTOUR              |
| ⊞     | PROPOSED LOW POINT BLOW-OFF           | 5607 | PROPOSED 1' CONTOUR              |
| ⊞     | PROPOSED AIR VALVE                    | ---  | PROPOSED STORM DRAIN             |
| ⊞     | FUTURE PHASE VALVE                    | ---  | PROPOSED SEWER LINE WITH MANHOLE |
| ⊞     | FUTURE FIRE HYDRANT                   | ---  | PROPOSED SEWER LATERAL           |
| ⊞     | PROPOSED LIGHT POLE                   | ---  | PROPOSED WATER LINE              |
| ⊞     | PROPOSED SIDEWALK RAMP                | ---  | PROPOSED WATER LATERAL W/ METER  |
| 10.00 | EXISTING ELEVATION                    | ---  | SECTION LINE                     |
| 10.00 | PROPOSED DESIGN ELEVATION             | ---  | FILING BOUNDARY                  |
| ⊞     | PROPOSED STORM DRAIN INLET            | FO   | EXISTING FIBER OPTIC LINE        |
| ⊞     | PROPOSED STORM DRAIN MANHOLE          | OH   | EXISTING OVERHEAD POWER          |
| ⊞     |                                       | TEL  | EXISTING TELEPHONE LINE          |
|       |                                       | ---  | PWSD EASEMENT                    |
|       |                                       | ---  | TYP. EASEMENT                    |

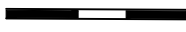
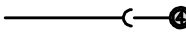
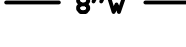
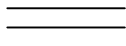
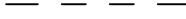
ABBREVIATIONS

|     |                        |        |                                 |
|-----|------------------------|--------|---------------------------------|
| AD  | ANGLE DIFFERENCE       | MH     | MANHOLE                         |
| AV  | AIR VAC RELEASE VALVE  | N.T.S. | NOT TO SCALE                    |
| BVC | BEGIN VERTICAL CURVE   | PVC    | POLYVINYL CHLORIDE              |
| BVP | BEGIN VERTICAL PROFILE | PVI    | PT. OF VERTICAL INTERSECTION    |
| CBO | CAP WITH BLOW OFF      | PVT    | POINT OF VERTICAL TANGENT       |
| CRR | CURB RETURN RADIUS     | RCBC   | REINFORCED CONCRETE BOX CULVERT |
| EL  | ELEVATION              | ROP    | REINFORCED CONCRETE PIPE        |
| EP  | EDGE OF PAVEMENT       | ROW    | RIGHT OF WAY                    |
| EVC | END VERTICAL CURVE     | SC     | SANITARY CAP                    |
| EVP | END VERTICAL PROFILE   | SD     | STORM DRAIN                     |
| FG  | FINISHED GROUND        | SL     | SECTION LINE                    |
| FH  | FIRE HYDRANT           | SS     | SANITARY SEWER                  |
| FL  | FLOW LINE              | STA    | STATION                         |
| GV  | GATE VALVE             | T.O.P. | TOP OF PIPE                     |
| HCR | HANDICAP CURB RAMP     | UE     | UTILITY EASEMENT                |
| HP  | HIGH POINT             | VC     | VERTICAL CURVE                  |
| INV | INVERT                 | WL     | WATER LINE                      |
| K   | CURVATURE COEFFICIENT  | WLC    | WATER LINE CONNECTION           |
| LF  | LINEAR FEET            | WSE    | WATER SURFACE ELEVATION         |

|              |               |                 |                 |                 |                     |                                                                                                   |                                                            |                                                                                                        |                                                                                                                     |           |     |      |       |       |      |
|--------------|---------------|-----------------|-----------------|-----------------|---------------------|---------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------|-----|------|-------|-------|------|
| SHEET NUMBER | DRAWN BY: RRR | CHECKED BY: BPW | DATE: JUNE 2018 | SCALE: AS SHOWN | FILE NO: 8130283701 | TRAILS AT CROWFOOT<br>FILING 16 CONSTRUCTION DRAWINGS<br>WATER PLAN & PROFILE<br>ALPINE LILY LANE | HR 935 LLC<br>7353 South Alton Way<br>CENTENNIAL, CO 80112 | <br>a Westwood team | 10333 E. Dry Creek Rd.<br>Suite 240<br>Englewood, CO 80112<br>Tel: 720.482.952<br>www.cvlinc.net<br>westwoodjpa.com | Revisions | No. | Date | Init. | Appr. | Date |
|              |               |                 |                 |                 |                     |                                                                                                   |                                                            |                                                                                                        |                                                                                                                     |           |     |      |       |       |      |
|              |               |                 |                 |                 |                     |                                                                                                   |                                                            |                                                                                                        |                                                                                                                     |           |     |      |       |       |      |
|              |               |                 |                 |                 |                     |                                                                                                   |                                                            |                                                                                                        |                                                                                                                     |           |     |      |       |       |      |



## LEGEND

|                                                                                       |                                       |                                                                                       |                                  |
|---------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|----------------------------------|
|    | BLOCK NUMBER                          |    | PROPOSED RANGE POINT             |
|    | LOT TYPE                              |    | CENTERLINE                       |
| 6                                                                                     | LOT NUMBER                            |    | RIGHT-OF-WAY                     |
|    | PROPOSED BUTTERFLY VALVE              |    | PROPERTY LINE                    |
|    | PROPOSED CAP WITH END OF LINE BLOWOFF |    | EDGE OF PAVEMENT                 |
|    | PROPOSED REDUCER                      |    | PROPOSED DIRECTION OF FLOW       |
|    | PROPOSED VALVE                        |    | PROPOSED SLOPE & DIRECTION       |
|    | PROPOSED FIRE HYDRANT                 |    | EXISTING 5' CONTOUR              |
|    | PROPOSED WL FITTING WITH THRUST BLOCK |    | EXISTING 1' CONTOUR              |
|    | PROPOSED FLARED END SECTION           |    | PROPOSED 5' CONTOUR              |
|   | PROPOSED LOW POINT BLOW-OFF           |   | PROPOSED 1' CONTOUR              |
|  | PROPOSED AIR VALVE                    |  | PROPOSED STORM DRAIN             |
|  | FUTURE PHASE VALVE                    |  | PROPOSED SEWER LINE WITH MANHOLE |
|  | FUTURE FIRE HYDRANT                   |  | PROPOSED SEWER LATERAL           |
|  | PROPOSED LIGHT POLE                   |  | PROPOSED WATER LINE              |
|  | PROPOSED SIDEWALK                     |  | PROPOSED WATER LATERAL W/ METER  |
|  | PROPOSED SIDEWALK RAMP                |  | SECTION LINE                     |
| 10.00                                                                                 | EXISTING ELEVATION                    |  | FILING BOUNDARY                  |
| 10.00                                                                                 | PROPOSED DESIGN ELEVATION             |  | EXISTING FIBER OPTIC LINE        |
|  | PROPOSED STORM DRAIN INLET            |  | EXISTING OVERHEAD POWER          |
|  | PROPOSED STORM DRAIN MANHOLE          |  | EXISTING TELEPHONE LINE          |
|                                                                                       |                                       |  | PWSD EASEMENT                    |
|                                                                                       |                                       |  | TPY. EASEMENT                    |

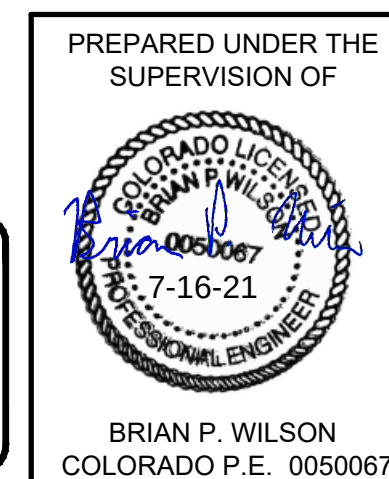
## ABBREVIATIONS

|     |                        |       |                                 |
|-----|------------------------|-------|---------------------------------|
| AD  | ANGLE DIFFERENCE       | MH    | MANHOLE                         |
| AV  | AIR VAC RELEASE VALVE  | N.T.S | NOT TO SCALE                    |
| BVC | BEGIN VERTICAL CURVE   | PVC   | POLYVINYL CHLORIDE              |
| BVP | BEGIN VERTICAL PROFILE | PVI   | PT. OF VERTICAL INTERSECTION    |
| CBO | CAP WITH BLOW OFF      | PVT   | POINT OF VERTICAL TANGENT       |
| CRR | CURB RETURN RADIUS     | RCBC  | REINFORCED CONCRETE BOX CULVERT |
| EL  | ELEVATION              | RCP   | REINFORCED CONCRETE PIPE        |
| EP  | EDGE OF PAVEMENT       | ROW   | RIGHT OF WAY                    |
| EVC | END VERTICAL CURVE     | SC    | SANITARY CAP                    |
| EVP | END VERTICAL PROFILE   | SD    | STORM DRAIN                     |
| FG  | FINISHED GROUND        | SL    | SECTION LINE                    |
| FH  | FIRE HYDRANT           | SS    | SANITARY SEWER                  |
| FL  | FLOW LINE              | STA   | STATION                         |
| GV  | GATE VALVE             | T.O.P | TOP OF PIPE                     |
| HCR | HANDICAP CURB RAMP     | UE    | UTILITY EASEMENT                |
| HP  | HIGH POINT             | VC    | VERTICAL CURVE                  |
| INV | INVERT                 | WL    | WATER LINE                      |
| K   | CURVATURE COEFFICIENT  | WLC   | WATER LINE CONNECTION           |
| LF  | LINEAR FEET            | WSE   | WATER SURFACE ELEVATION         |



**BENCHMARK**  
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A 3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

**BASIS OF BEARINGS:**  
THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 9  
BEING MONUMENTED AT THE NORTHEAST CORNER OF SAID  
SECTION 9 BY A 3-1/4" ALUMINUM CAP STAMPED LS 23053 AND AT  
THE EAST QUARTER CORNER OF SAID SECTION 9 BY A 2-1/2"  
ALUMINUM CAP STAMPED LS 6935 BEING CONSIDERED TO BEAR  
SOUTH 00°15'06" EAST, 2648.70 FEET.



CALL 811  
TWO WORKING DAYS  
BEFORE YOU DIG  
1-800-922-1987

**UNCC**  
UTILITY NOTIFICATION  
COUNCIL OF CALIFORNIA

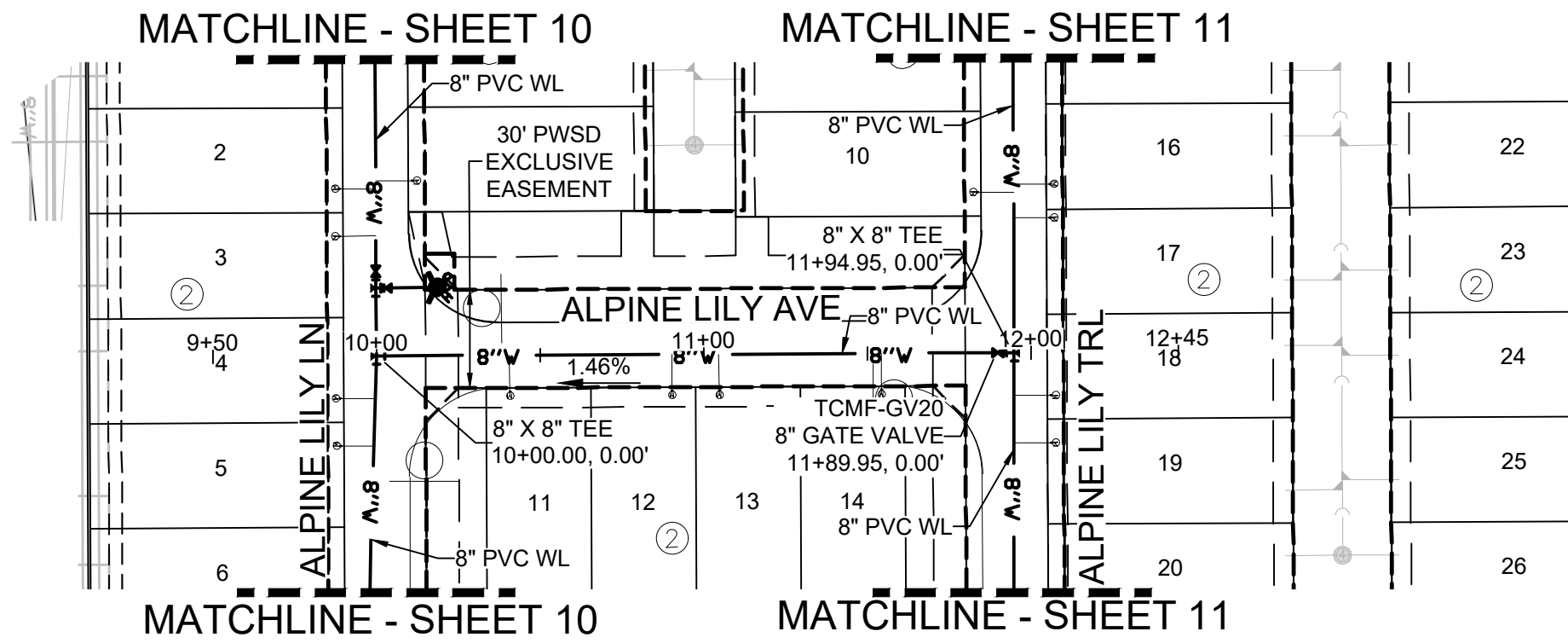
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|                        |             |           |            |                                                                                                    |  |  |  |  |  |     |                                                                       |                                              |                                                                                                                                                               |           |      |       |       |      |  |  |  |
|------------------------|-------------|-----------|------------|----------------------------------------------------------------------------------------------------|--|--|--|--|--|-----|-----------------------------------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------|-------|-------|------|--|--|--|
| SHEET NUMBER<br><br>11 | DRAWN BY:   | RRR       | SCALE:     | TRAILS AT CROWFOOT<br>FILING 16 CONSTRUCTION DRAWINGS<br>WATER PLAN & PROFILE<br>ALPINE LILY TRAIL |  |  |  |  |  |     | <br><b>HR 935 LLC</b><br>7352 South Alton Way<br>CENTENNIAL, CO 80112 | <br><b>a Westwood team</b><br>westwoodps.com | 10333 E. Dry Creek Rd.<br>Suite 240<br>Englewood, CO 80112<br>Tel: 720.482.952<br><a href="http://www.cmlinc.net">www.cmlinc.net</a><br><b>westwoodps.com</b> |           |      |       |       |      |  |  |  |
|                        | CHECKED BY: | BWP       | FILE NO:   |                                                                                                    |  |  |  |  |  |     |                                                                       |                                              |                                                                                                                                                               |           |      |       |       |      |  |  |  |
|                        | DATE:       | JUNE 2018 | 8130283701 |                                                                                                    |  |  |  |  |  | No. |                                                                       |                                              |                                                                                                                                                               | Revisions | Date | Init. | Appr. | Date |  |  |  |
|                        |             |           |            |                                                                                                    |  |  |  |  |  |     |                                                                       |                                              |                                                                                                                                                               |           |      |       |       |      |  |  |  |
|                        |             |           |            |                                                                                                    |  |  |  |  |  |     |                                                                       |                                              |                                                                                                                                                               |           |      |       |       |      |  |  |  |
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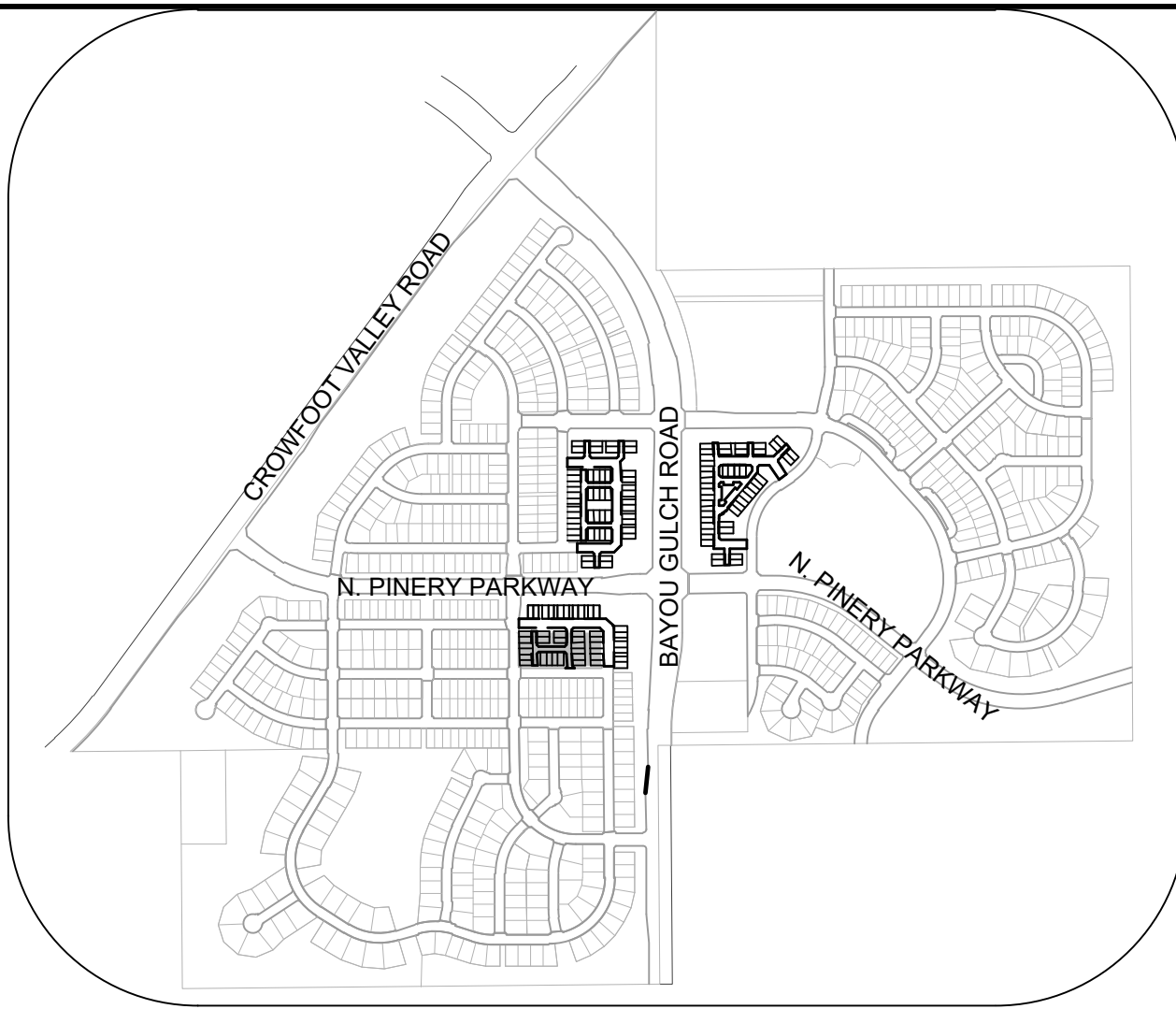
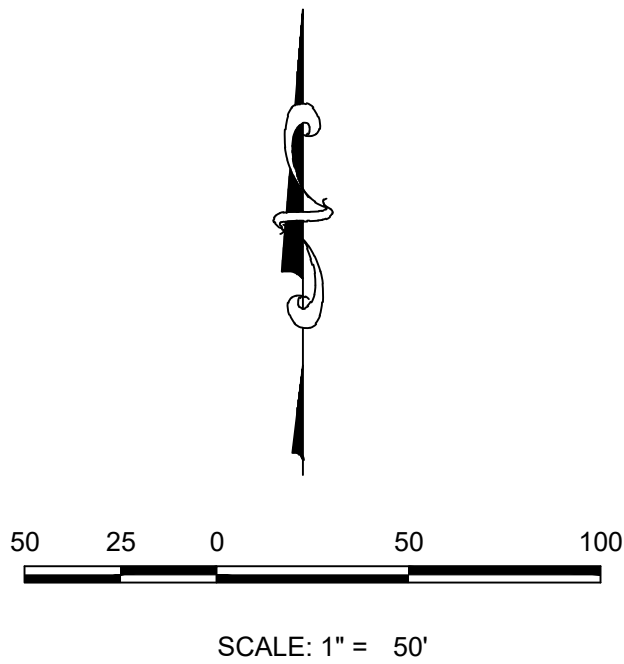
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CALL 811  
TWO WORKING DAYS  
BEFORE YOU DIG  
UNCC  
UTILITY NOTIFICATION  
CENTER OF COLORADO  
1-800-922-1987



PLAN: ALPINE LILY AVE STA: 9+50.00 TO 12+45.00  
HORIZONTAL SCALE: 1" = 50'



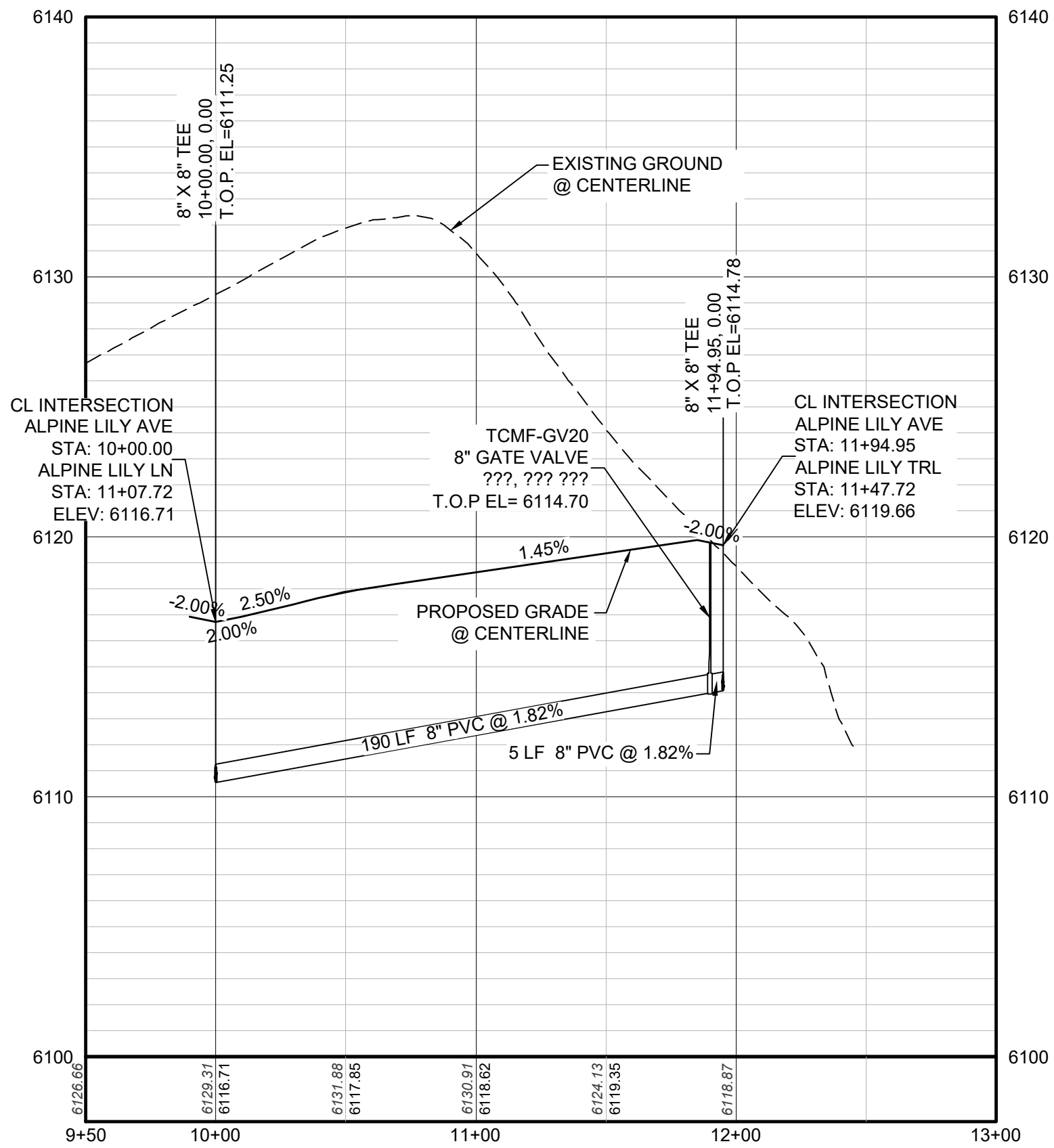
KEYMAP  
N.T.S.

LEGEND

|       |                                       |      |                                  |
|-------|---------------------------------------|------|----------------------------------|
| ②     | BLOCK NUMBER                          | △    | PROPOSED RANGE POINT             |
| Ⓐ     | LOT TYPE                              | ---  | CENTERLINE                       |
| 6     | LOT NUMBER                            | ---  | RIGHT-OF-WAY                     |
| ⊞     | PROPOSED BUTTERFLY VALVE              | ---  | PROPERTY LINE                    |
| ⌈     | PROPOSED CAP WITH END OF LINE BLOWOFF | ---  | EDGE OF PAVEMENT                 |
| ⌋     | PROPOSED REDUCER                      | →    | PROPOSED DIRECTION OF FLOW       |
| ⊞     | PROPOSED VALVE                        | 1.0% | PROPOSED SLOPE & DIRECTION       |
| ⊞     | PROPOSED FIRE HYDRANT                 | 5615 | EXISTING 5' CONTOUR              |
| ⊞     | PROPOSED WL FITTING WITH THRUST BLOCK | 5616 | EXISTING 1' CONTOUR              |
| ⌈     | PROPOSED FLARED END SECTION           | 5620 | PROPOSED 5' CONTOUR              |
| ⊞     | PROPOSED LOW POINT BLOW-OFF           | 5607 | PROPOSED 1' CONTOUR              |
| ⊞     | PROPOSED AIR VALVE                    | ---  | PROPOSED STORM DRAIN             |
| ⊞     | FUTURE PHASE VALVE                    | ---  | PROPOSED SEWER LINE WITH MANHOLE |
| ⊞     | FUTURE FIRE HYDRANT                   | ---  | PROPOSED SEWER LATERAL           |
| ⊞     | PROPOSED LIGHT POLE                   | ---  | PROPOSED WATER LINE              |
| ⊞     | PROPOSED SIDEWALK RAMP                | ---  | PROPOSED WATER LATERAL W/ METER  |
| 10.00 | EXISTING ELEVATION                    | ---  | SECTION LINE                     |
| 10.00 | PROPOSED DESIGN ELEVATION             | ---  | FILING BOUNDARY                  |
| ⊞     | PROPOSED STORM DRAIN INLET            | ---  | FO                               |
| ⊞     | PROPOSED STORM DRAIN MANHOLE          | ---  | OH                               |
|       |                                       | ---  | TEL                              |
|       |                                       | ---  | EXISTING FIBER OPTIC LINE        |
|       |                                       | ---  | EXISTING OVERHEAD POWER          |
|       |                                       | ---  | EXISTING TELEPHONE LINE          |
|       |                                       | ---  | PWSD EASEMENT                    |
|       |                                       | ---  | TYP. EASEMENT                    |

ABBREVIATIONS

|     |                        |        |                                 |
|-----|------------------------|--------|---------------------------------|
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| EL  | ELEVATION              | ROP    | REINFORCED CONCRETE PIPE        |
| EP  | EDGE OF PAVEMENT       | ROW    | RIGHT OF WAY                    |
| EVC | END VERTICAL CURVE     | SC     | SANITARY CAP                    |
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| FG  | FINISHED GROUND        | SL     | SECTION LINE                    |
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| FL  | FLOW LINE              | STA    | STATION                         |
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| INV | INVERT                 | WL     | WATER LINE                      |
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PROFILE: ALPINE LILY AVE STA: 9+50.00 TO 13+00.00  
HORIZONTAL: 1" = 50'  
VERTICAL: 1" = 5'

BENCHMARK  
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A 3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

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PREPARED UNDER THE SUPERVISION OF



BRIAN P. WILSON  
COLORADO P.E. 0050067

10333 E. Dry Creek Rd.  
Suite 240  
Englewood, CO 80112  
Tel: 720.482.952  
www.cvlinc.net  
westwoodjax.com



a Westwood team

HR 935 LLC  
7353 South Alton Way  
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT  
FILING 16 CONSTRUCTION DRAWINGS  
WATER PLAN & PROFILE  
ALPINE LILY STREET

SCALE: AS SHOWN  
FILE NO: 8130283701

DRAWN BY: RRR  
CHECKED BY: BPW  
DATE: JUNE 2018

SHEET NUMBER 12

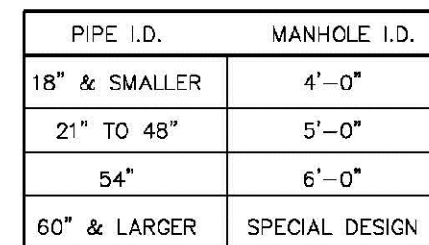
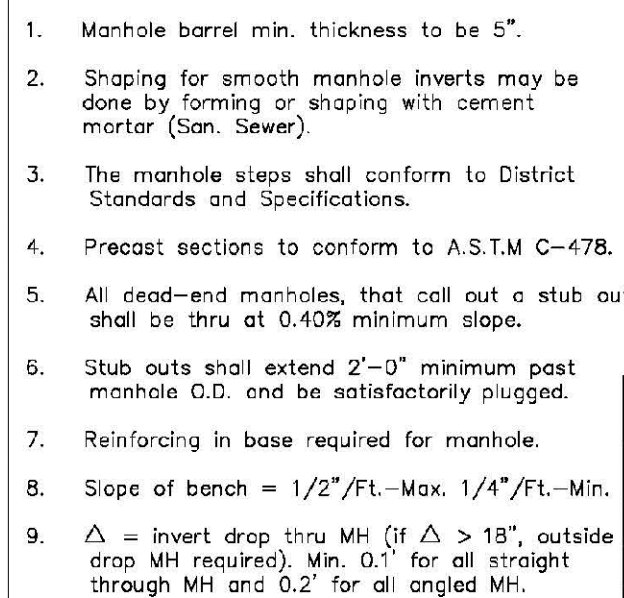
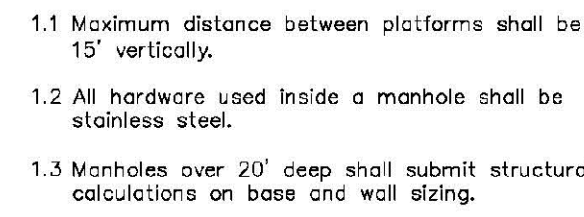
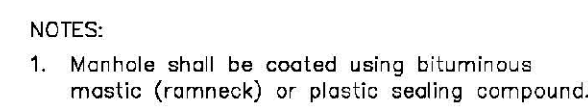
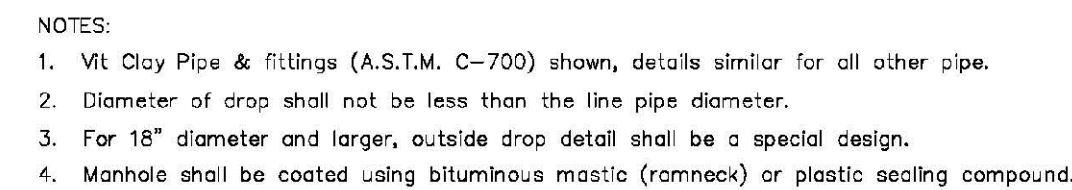
Revisions  
No. Date Init. Appr. Date

1. ALL SERVICE INSPECTIONS MUST BE SCHEDULED WITH THE DISTRICT OFFICE AT LEAST 24 HOURS IN ADVANCE OF THE REQUESTED INSPECTION.
2. IF THE CONTRACTOR IS NOT READY FOR INSPECTION WHEN THE INSPECTOR ARRIVES AT THE SITE, A RE-INSPECTION WILL HAVE TO BE SCHEDULED IN ACCORDANCE WITH NOTE 1 ABOVE AND A RE-INSPECTION FEE CHARGED.
3. SHOULD THE SERVICE LINES BE DAMAGED BY LATER CONSTRUCTION, AN INSPECTION OF THE DAMAGED AREA SHALL BE CONDUCTED WITH NOTES 1 AND 2 ABOVE.
4. THE CONTRACTOR SHALL LEAVE ALL FILL AND FITTINGS EXPOSED FOR THE INSPECTOR TO OBSERVE. INSPECTORS WILL NOT ENTER ANY EXCAVATIONS TO CHECK MATERIALS. THE TOP LAYER OF BEDDING CAN BE ADDED AFTER THE INSPECTION HAS BEEN COMPLETED.
5. ALL EXCAVATIONS SHALL BE IN ACCORDANCE WITH OSHA STANDARDS.
6. LOTS WITHOUT BUILDING ADDRESSES OR LOT AND BLOCK NUMBERS BEFORE DISTRICT INSPECTION OR METER SET WILL FAIL AUTOMATICALLY.
7. CONTRACTOR MUST BE PRESENT AT TIME OF INSPECTION UNLESS COORDINATED WITH DISTRICT INSPECTOR.

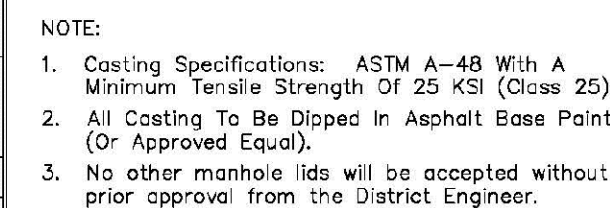
1. ACCEPTABLE PIPE MATERIALS ARE TO BE SDR 35 PVC PIPE, ABS PIPE AND PVC SCHD 40 PIPE. APPROVED BEDDING IS TO BE SQUEEGEE.
2. NO-HUB CLAMPS SHALL BE USED TO JOIN 2 MALE PIPE ENDS WITH A MAXIMUM DEFLECTION OF 3".
3. MINIMUM GRADE SHALL BE 2%.
4. INSTALLATION SHALL INCLUDE NO MORE THAN 3 BENDS. 90° BENDS ARE NOT ALLOWED. SOLVENT WELDED PIPE WILL NOT BE ALLOWED.
5. CLEAN-OUTS SHALL BE INSTALLED AT 100' INTERVALS AND EVERY CHANGE IN DIRECTION. CLEAN-OUTS ARE NOT REQUIRED FOR SERVICES LESS THAN 100' UNLESS THERE ARE CHANGES IN DIRECTION. PROVIDE DUAL CLEAN-OUT WITHIN 5 FEET OF FOUNDATION.
6. STRESSING OF THE PIPE BETWEEN FITTINGS WILL NOT BE ALLOWED.
7. SEWER SERVICE LINE SHALL NOT BE LOCATED UNDER CONCRETE SURFACE.
8. ALL SERVICES WILL BE PERMANENTLY MARKED ON CURB FACE AS FOLLOWS:  
"X" FOR SANITARY SEWER SERVICE  
"V" FOR WATER SERVICES

2016 REVISION

- NOTE
1. SEE SHEET S1.1 FOR DISTRICT POLICIES AND INSTALLATION NOTES.
  2. TYPICAL WATER SERVICES SHOWN ON SHEET W1.2 IN WATER DETAILS.

2016 REVISION2016 REVISION2016 REVISION2016 REVISION2016 REVISION2016 REVISION

## 2016 REVISION

2016 REVISION

|                                                                                |                                            |                |
|--------------------------------------------------------------------------------|--------------------------------------------|----------------|
| TOE POCKET DETAILS<br><u>STANDARD EXTRUDED</u><br><u>ALUMINUM MANHOLE STEP</u> | PARKER WATER<br>& SANITATION DISTRICT      |                |
|                                                                                | STANDARD EXTRUDED ALUMINUM<br>MANHOLE STEP |                |
|                                                                                | SCALE: NONE                                | DATE: 2/96     |
|                                                                                | APPROVED: PVR                              | 01/15<br>10/16 |
| DIRECTOR OF ENGINEERING                                                        |                                            |                |

|                                                  |      |                |
|--------------------------------------------------|------|----------------|
| POLYPROPYLENE REINFORCED PLASTIC STEP            |      |                |
| PARKER WATER<br>& SANITATION DISTRICT            |      |                |
| POLYPROPYLENE REINFORCED<br>PLASTIC MANHOLE STEP |      |                |
| SCALE:                                           | NONE | DATE: 7/02     |
| APPROVED: PVR                                    |      | 11/16<br>10/16 |
| DIRECTOR OF ENGINEERING                          |      |                |

NOTES:

3.1 THE CAST ALUMINUM MANHOLE STEP SHALL ONLY BE USED WHEN SPECIFIED ON THE DRAWINGS.

3.2 ALUMINUM ALLOY SPECIFICATIONS:

a. ALLOY DESIGNATION: ALMAG. 35

b. MIN. TENSILE STRENGTH= 40 K.S.I.

c. MIN. YIELD STRENGTH= 20 K.S.I.

d. MIN. SHEAR STRENGTH= 27.45 K.S.I.

e. ELONGATION= 10% IN 2

3.3 BURNELL HARDNESS= 70

3.4 MINIMUM LOAD CAPACITY: STEP SPACING AND ALIGNMENT, TO MEET DETAIL AND OTHER APPLICABLE NOTES AND SPECIFICATIONS FOR EXTRUDED ALUMINUM MANHOLE STEP SHALL ALSO APPLY TO THIS STANDARD.

3.5 MIN. WT. = 2.0 LB.

PARKER WATER  
& SANITATION DISTRICT

CAST ALUMINUM  
MANHOLE STEP

SCALE: NONE

DATE: 2/98

APPROVED: PVR

05/78  
10/15

DIRECTOR OF ENGINEERING

|                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |                   |                      |            |  |      |  |      |                                |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|----------------------|------------|--|------|--|------|--------------------------------|--|
| <p><b>STEEL PIPE</b></p> <p>STENCILED IDENTIFICATION MARKS ON POSTS SHALL FACE THE APPURTENANCE WITH 2" STENCILS INDICATING TYPE OF APPURTENANCE (MH, 12" VALVE, ETC.) AND THE DISTANCE IN FEET AND INCHES FROM POST.</p> <p><b>BEDWOOD POST</b></p> <p>ROUTER LETTERS AND NUMBERS INTO POST. PAINT LETTERS AND NUMBERS BLACK.</p> | <p style="text-align: center;"><b>PARKER WATER<br/>&amp; SANITATION DISTRICT</b></p> <p style="text-align: center; font-size: 1.2em;"><b>MARKER POST<br/>DETAIL</b></p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <tr> <td style="width: 40%;"><b>SCALE:</b></td> <td style="width: 40%;"><b>DATE:</b> 2/98</td> </tr> <tr> <td><b>APPROVED:</b> PVR</td> <td>2/00 10/18</td> </tr> <tr> <td></td> <td>4/01</td> </tr> <tr> <td></td> <td>1/76</td> </tr> <tr> <td colspan="2"><b>DIRECTOR OF ENGINEERING</b></td> </tr> </table> | <b>SCALE:</b> | <b>DATE:</b> 2/98 | <b>APPROVED:</b> PVR | 2/00 10/18 |  | 4/01 |  | 1/76 | <b>DIRECTOR OF ENGINEERING</b> |  |
| <b>SCALE:</b>                                                                                                                                                                                                                                                                                                                      | <b>DATE:</b> 2/98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |               |                   |                      |            |  |      |  |      |                                |  |
| <b>APPROVED:</b> PVR                                                                                                                                                                                                                                                                                                               | 2/00 10/18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |               |                   |                      |            |  |      |  |      |                                |  |
|                                                                                                                                                                                                                                                                                                                                    | 4/01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |               |                   |                      |            |  |      |  |      |                                |  |
|                                                                                                                                                                                                                                                                                                                                    | 1/76                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |               |                   |                      |            |  |      |  |      |                                |  |
| <b>DIRECTOR OF ENGINEERING</b>                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |                   |                      |            |  |      |  |      |                                |  |

**TYPICAL TRENCH DETAIL**

**NOTES**

- Slating or benching of trench side walls, where permitted, shall be in accordance with applicable Federal, State and Local safety regulations.
- Trench shall be braced and shored as necessary to afford safe working conditions or to protect adjacent utilities, structures, etc. Unless otherwise specified on the plans, no pavement will be made for removal, replacement or relocation of curb and gutter, utilities, sidewalk structures, etc. outside the maximum limits of excavation as shown and the contractor shall be responsible for protection of same.
- If dimension  $T_g < 0'$ , then existing asphalt pavement shall be removed and replaced up to the gutter. Maximum asphalt pay width,  $T_g$ , shall then be based upon this actual width.

**CONCRETE ARCH**

**Class "B" Bedding**

Labels for Class "B" Bedding:

- $B_g$  = Specified Trench Width
- $B_w$  = Cradle Width
- Plain or Reinforced Concrete Continuous  $f_c = 3500$  psi min.
- Densely compacted backfill, hand - tamped (90% density, AASHTO T-180) in open areas and 95% density, AASHTO T-99 in all public R.O.W.
- Compacted Granular Material (Class "B" Bedding)
- Lower limit of sloping or benching of trench walls
- Bedding (Vertical Wall)
- MIN. 12"
- $d$
- $1/2$
- $B_c$
- $1/2$
- $d$
- $B_c$  = Pipe O.D.

**Class "A" Bedding**

Labels for Class "A" Bedding:

- $B_g$  = Specified Trench Width
- Bedding (Vertical Squeezed)
- MIN. 12"
- $d$
- $1/4$
- $B_c$
- $1/4$
- $d$
- $B_c$  = Pipe O.D.
- $B_w$  = Cradle Width
- Plain or Reinforced Concrete Continuous  $f_c = 3500$  psi min.
- Compacted Granular Material (Class "A" Bedding)
- Lower limit of sloping or benching of trench walls

**CONCRETE ARCH**

**CLASS "A" BEDDING**

NOTE: The Design Engineer shall be responsible for structural design of the concrete arch and/or concrete arch.

| TABLE II             |                       |                                        |
|----------------------|-----------------------|----------------------------------------|
| NOMINAL DIAMETER (3) | MINIMUM THICKNESS (4) | MIN. WIDTH OF CRADLE (B <sub>w</sub> ) |
| 18" & smaller        | 6"                    | B <sub>g</sub> + 6"                    |
| 21" to 24"           | 6"                    | B <sub>g</sub> + 6"                    |
| 27" to 33"           | 6"                    | B <sub>g</sub> + 6"                    |
| 36" to 42"           | 10"                   | 1.25 B <sub>g</sub>                    |
| 48" & larger         | 1/4 D                 | 1.25 B <sub>g</sub>                    |

**PARKER WATER & SANITATION DISTRICT**

**TRENCHING AND BEDDING**

**DETAIL - CLASS "A"**

|                         |               |
|-------------------------|---------------|
| SCALE: NONE             | DATE: 7/98    |
| APPROVED: PVR           | 1/16<br>10/16 |
| DIRECTOR OF ENGINEERING |               |

**IDEAL TRENCH CONDITIONS  
LARGER THAN 18" DIA.**

| TABLE IV                                            |     |
|-----------------------------------------------------|-----|
| MIN. DEPTH OF BEDDING MAT'L<br>BELOW BOTTOM OF PIPE |     |
| PIPE SIZE -"                                        | d   |
| 18" & SMALLER                                       | 6"  |
| 21" TO 36"                                          | 6"  |
| 42" TO 60"                                          | 6"  |
| 66" TO 96"                                          | 9"  |
| 104" & LARGER                                       | 12" |

\*FOR ARCH OR ELLIPTICAL PIPE, D=SPAN DIMENSION

**IDEAL TRENCH CONDITIONS  
18" DIA. & SMALLER**

| TABLE IV                                            |     |
|-----------------------------------------------------|-----|
| MIN. DEPTH OF BEDDING MAT'L<br>BELOW BOTTOM OF PIPE |     |
| PIPE SIZE -"                                        | d   |
| 18" & SMALLER                                       | 6"  |
| 21" TO 36"                                          | 6"  |
| 42" TO 60"                                          | 6"  |
| 66" TO 96"                                          | 9"  |
| 104" & LARGER                                       | 12" |

\*FOR ARCH OR ELLIPTICAL PIPE, D=SPAN DIMENSION

**CLASS "B" BEDDING**

**GENERAL NOTES:**

0-1 THESE DETAILS ARE TYPICAL FOR NORMAL TRENCH CONDITIONS. FOR INSTALLATIONS OTHER THAN THESE (SUCH AS EMBANKMENT OR TUNNEL INSTALLATIONS, ETC.) EXCAVATION, BEDDING AND BACKFILL REQUIREMENTS SHALL BE DETAILED ON THE CONSTRUCTION DRAWINGS. FOR UNUSUAL OR UNSTABLE SOIL CONDITIONS, TRENCH AND BEDDING DETAILS SHALL BE A SPECIAL DESIGN.

**Diagram Labels:**

- $B_1$  (TYP)
- 12" MIN.
- 0.5  $B_c$
- $B_c$
- $B_2$
- HAND-TAMPED BACKFILL (TYP) FOR SIZE 18" AND LARGER.
- GRANULAR CLASS "B" SQUEEZE BEDDING MATERIAL, HAND-TAMPED IN 6" LIFTS
- ROCK EXCAVATION

**TABLE IV**

MIN. DEPTH OF BEDDING MAT'L. BELOW BOTTOM OF PIPE

| PIPE SIZE—D"  | $B_c$ |
|---------------|-------|
| 18" & SMALLER | 6"    |
| 21" TO 36"    | 8"    |
| 42" TO 60"    | 8"    |
| 66" TO 96"    | 9"    |
| 104" & LARGER | 12"   |

\*FOR ARCH OR ELLIPTICAL PIPE, D=SPAN DIMENSION

**GENERAL NOTES:**

G-1 THESE DETAILS ARE TYPICAL FOR NORMAL TRENCH CONDITIONS. FOR INSTALLATIONS OTHER THAN THESE (SUCH AS BURIEDMANHOLES OR TUNNEL INSTALLATIONS, ETC.) EXCAVATION, BEDDING AND BACKFILL REQUIREMENTS SHALL BE DETAILED ON THE CONSTRUCTION DRAWINGS. FOR UNUSUAL OR UNSTABLE SOIL CONDITIONS, TRENCH AND BEDDING DETAILS SHALL BE A SPECIAL DESIGN.

**NOTES:**

3.1 BELL HOLLS SHALL BE EXCAVATED AT ALL BELL AND SHOULD JOINTS.

3.2 BEDDING TRENCH BACKFILL TO BE COMPACTED TO 90% DENSITY, AASHTO T-100. IN OPEN AREAS AND 80% DENSITY AASHTO T-99 IN ALL PUBLIC R.O.W.

**PARKER WATER & SANITATION DISTRICT**

**TRENCHING AND BEDDING CLASS "B"**

|                         |            |
|-------------------------|------------|
| SCALE: _____ NONE       | DATE: 2/98 |
| APPROVED: PVR           | 5/98       |
|                         | 2/00       |
|                         | 1/76       |
|                         | 10/76      |
| DIRECTOR OF ENGINEERING |            |

**CLASS 'B' BEDDING**

**GENERAL NOTES:**

G-1 THESE DETAILS ARE TYPICAL FOR NORMAL TRENCH CONDITIONS. FOR INSTALLATIONS OTHER THAN THESE (SUCH AS UNBANKING OR TUNNEL INSTALLATIONS, ETC.) EXCAVATION, BEDDING AND BACKFILL REQUIREMENTS SHALL BE OBTAINED ON THE CONSTRUCTION DRAWINGS. FOR UNUSUAL OR UNSTABLE SOIL CONDITIONS, TRENCH AND BEDDING DETAILS SHALL BE A SPECIAL DESIGN.

**TABLE IV**  
MIN. DEPTH OF BEDDING MAT'L  
BELOW BOTTOM OF PIPE

| PIPE SIZE—D   | $c_1$ |
|---------------|-------|
| 18" & SMALLER | 6"    |
| 21" TO 36"    | 6"    |
| 42" TO 60"    | 6"    |
| 66" TO 80"    | 8"    |
| 104" & LARGER | 12"   |

\*FOR ARCH OR ELLIPTICAL PIPE, D=SPAN DIMENSION

**LEGEND:**

- HAND-TAMPOD BACKFILL (TYP) FOR SIZE 18" AND LARGER.
- GRANULAR CLASS 'B' SUBGRADE BEDDING MATERIAL HAND-TAMPOD & 6" LIFTS.
- GEOTEXTILE FILTER CLOTH
- MIN. 1/2" MAX. ROCK
- LARGE STONES, BROKEN CONCRETE, ETC. IF REQUIRED

**UNSTABLE SUBGRADE CONDITION**

**NOTES:**

1. BELL HOLES SHALL BE EXCAVATED AT ALL BELL AND SPIGOT JOINTS.

2. BEDDING TRENCH READY TO BE COMPACTED TO 95% DENSITY, AROUND 1-10% IN OPEN AREAS AND 90% DENSITY AROUND 1-99% ALL PUBLIC S.O.W.

**LEGEND:**

- $B_D$ —SPECIFIED TRENCH WIDTH AT A POINT 12" ABOVE GROUND (MAX. ALLOWANCE:  $B_D$  IS 0.5)
- D—PIPE ID (OR SPAN DIM. OF ELLIPTICAL PIPE)
- $d$ —DEPTH OF BEDDING MATERIAL BELOW BOTTOM OF PIPE

PROPOSED SEWER OR CONDUIT

PIER SUPPORT EACH SIDE, IF REQUIRED. (SEE NOTE 8)

CONCRETE ARCH ( $f_c' = 2000$  PSI)

SHORING (SEE NOTE 6)

UNDISTURBED EARTH

HAND EXCAVATION REQUIRED AROUND SANITARY SEWER

FILLER MATERIAL (SEE NOTE 15)

SANITARY SEWER

6" 6" O.D. + 12"

TYPE I

## CONCRETE ENCASEMENT FOR SANITARY SEWERS

(CONCRETE ARCH)

### GENERAL NOTES FOR TYPE I, II & III ENCASEMENT

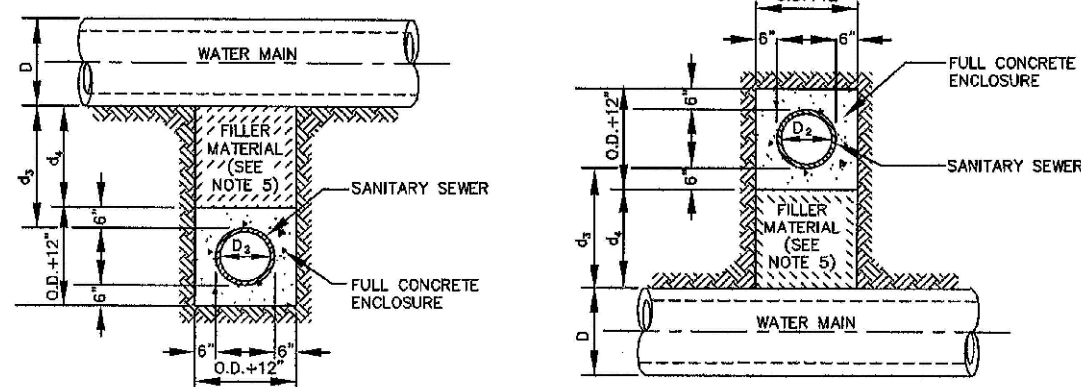
- CONCRETE TO BE CAST AGAINST UNDISTURBED SOIL OR SHORING. IF OPTIONAL CONSTRUCTION JOINT IS USED, A BOTTOM LAYER OF ENCASEMENT IS POURED SEPARATELY. A ONE INCH LAYER OF SAND OR LIGHTLY SHALL BE PLACED BETWEEN BOTTOM OF SANITARY SEWER AND TOP OF CONCRETE.
- LENGTH OF ENCASEMENT FOR:
  - (a) TYPE I & TYPE II ENCASEMENT SHALL EXTEND FULL TRENCH BOTH EXCAVATED FOR PROPOSED SEWER OR CONDUIT.
  - (b) TYPE III ENCASEMENT SHALL EXTEND AT LEAST TO FEET EACH SIDE OF WATER MAIN.
- UNLESS OTHERWISE NOTED ON PLAN/PROFILE DRAWINGS, TYPE I, II & III ENCASEMENTS NEED NOT BE REINFORCED. REINFORCEMENT, IF REQUIRED, SHALL BE SPECIFIED AND DETAILLED SEPARATELY ON PLAN & PROFILE DRAWINGS.
- TYPE I, II OR III ENCASEMENTS ARE REQUIRED UNDER FOLLOWING CONDITIONS:
  - (a) TYPE I OR TYPE II IF  $d \leq 18"$  ( $d \leq 457$ ) mm. EXCEPT FOR SANITARY SEWERS CROSSING OVER OR UNDER WATER MAINS.
  - (b) WATER MAINS AND  $d_s \leq 24"$  ( $d_s \leq 610$ ) mm.
  - (c) TYPE III IS REQUIRED FOR SANITARY SEWERS CROSSING OVER TOP OF WATER MAINS, REGARDLESS OF DIMENSION  $d_s$ .
  - (d) EXCEPT FOR UNUSUAL CIRCUMSTANCES, WATER MAINS CROSSINGS OR WHERE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, TYPE I ENCASEMENT WILL NORMALLY BE SATISFACTORY.
  - (e) IF THE SANITARY SEWER IS REPLACED OR CONSTRUCTED OF DUCTILE IRON PIPE (AWWA C-150 OR C-151), CONCRETE ENCASEMENT MAY NOT BE REQUIRED.
  - (f) FILLER MATERIAL BETWEEN CONDUITS TO BE:
    - (a) APPROVED COMPRESSIBLE MATERIAL SUCH AS STYROFOAM, ETC.
    - (b)  $4 \times 4 \times 4$  IN.
    - (c) COMPACTED FLAT "B" BEDDING IF  $d_s \leq d_p \leq 6"$  ( $d_s \leq d_p \leq 152$  mm) FOR TYPE III ENCASEMENT FOUR CONCRETE ON UNDISTURBED SOIL).
  - SHORING OR SHEETING, IF USED, TO BE CUT OFF AT TOP OF ENCASEMENT.
  - THESE ENCASEMENT DETAILS MAY ALSO BE APPLICABLE FOR CONDUITS OTHER THAN STORM OR SANITARY SEWER INSTALLATIONS.
  - IN CERTAIN SITUATIONS WHERE CONDUIT DIAMETER "D" IS SIGNIFICANTLY LARGER THAN CONDUIT LAYER OF SANITARY SEWER, ENCASEMENT MAY ALSO BE REQUIRED. IF REQUIRED, SUPPORTS SHALL BE SPECIFIED AND DETAILLED SEPARATELY ON PLAN AND PROFILE DRAWINGS.

**PARKER WATER  
& SANITATION DISTRICT**

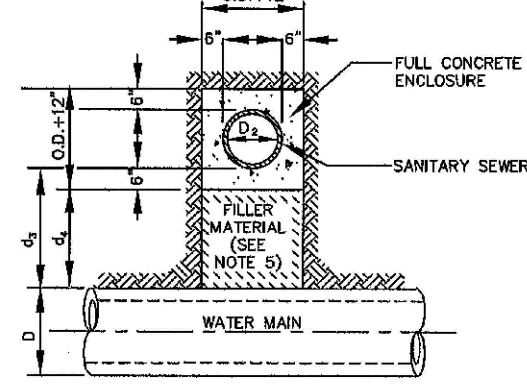
**CONCRETE ENCASEMENT  
TYPE I**

|                         |                   |
|-------------------------|-------------------|
| SCALE: _____ NAME _____ | DATE: <u>2/98</u> |
| APPROVED: JFN           |                   |
| DISTRICT ENGINEER       |                   |

N:\PROJECTS\SSR RANCH\ENGINEERING\SSR SHEET SETS\MULTIFAMILY\CDST\16 PARKER WATER AND SANITATION\SANITARY SEWER DETAILS.DWG, BRIAN W. 6/4/2021, 12:52 PM



TYPE IIa  
SANITARY SEWER CROSSING  
UNDER WATER MAIN  
IF  $d_s > 2$  FT, ENCASEMENT NOT REQUIRED



TYPE IIb  
SANITARY SEWER CROSSING  
OVER TOP OF WATER MAIN  
FULL ENCASEMENT REQUIRED REGARDLESS OF DIMENSION  $d_s$ .

TYPE II  
CONCRETE ENCASEMENT FOR SANITARY SEWERS  
CROSSING OVER OR UNDER WATER MAIN

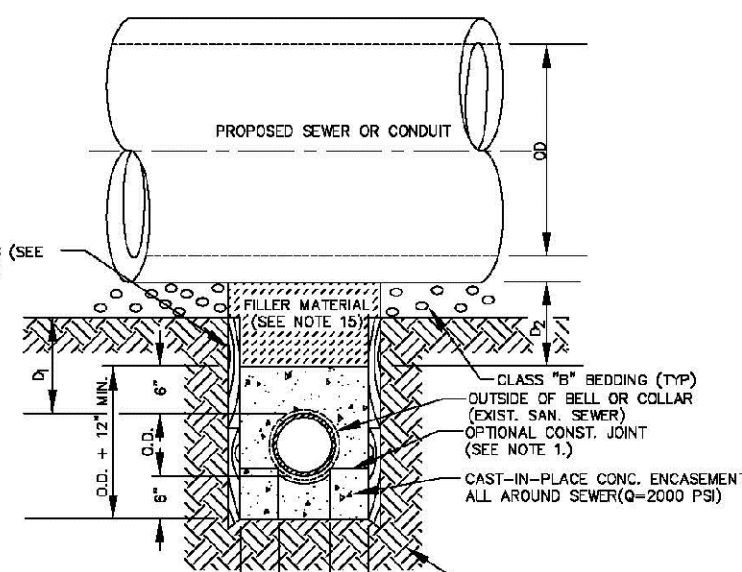
GENERAL NOTES FOR TYPE I, II, & III ENCASEMENT

- CONCRETE TO BE CAST AGAINST UNDISTURBED SOIL OR SHORING. IF OPTIONAL CONSTRUCTION JOINT IS USED, BOTTOM HALF OF ENCASEMENT IS POURED SEPARATELY. A ONE INCH LAYER OF SAND OR MORTAR SHALL BE PLACED BETWEEN BOTTOM OF SANITARY SEWER AND TOP OF CONCRETE.
- LENGTH OF ENCASEMENT FOR:  
(a) TYPE I & TYPE II ENCASEMENT SHALL EXTEND FULL TRENCH WIDTH EXCAVATED FOR PROPOSED SEWER OR CONDUIT.  
(b) TYPE III ENCASEMENT SHALL EXTEND AT LEAST TO FEET EACH SIDE OF WATER MAIN.
- UNLESS OTHERWISE NOTED ON PLAN/PROFILE DRAWINGS, TYPE I, II & III ENCASEMENTS NEED NOT BE REINFORCED. REINFORCEMENT, IF REQUIRED, SHALL BE SPECIFIED AND DETAILED SEPARATELY ON PLAN & PROFILE DRAWINGS.
- TYPE I, II OR III ENCASEMENTS ARE REQUIRED UNDER FOLLOWING CONDITIONS:  
(a) TYPE I OR TYPE II IF  $d_s \leq 18"$  (IF  $d_s \leq 12"$ ) EXCEPT FOR SANITARY SEWER CROSSING OVER OR UNDER WATER MAINS.  
(b) TYPE I OR TYPE II IF  $d_s \leq 18"$  (IF  $d_s \leq 12"$ ) EXCEPT FOR SANITARY SEWER CROSSING OVER TOP OF WATER MAINS, REGARDLESS OF DIMENSION  $d_s$ .  
(c) EXCEPT FOR UNUSUAL CIRCUMSTANCES, WATER MAIN CROSSINGS, OR WHERE UNUSUAL SOIL CONDITIONS ARE ENCOUNTERED, TYPE I ENCASEMENT WILL NORMALLY BE SATISFACTORY.  
(d) IF THE SANITARY SEWER IS REPLACED OR CONSTRUCTED OF DUCTILE IRON PIPE (AWWA C-150 OR C-151), CONCRETE ENCASEMENT MAY NOT BE REQUIRED.
- FILLER MATERIAL BETWEEN CONDUITS TO BE:  
(a) APPROVED COMPRESSIBLE MATERIAL SUCH AS STYROFOAM, ETC. IF  $d_s \leq 4"$  &  $d_s \leq 6"$ .  
(b) COMPACTED CLASS "B" BEDDING IF  $d_s \leq 4"$  &  $d_s > 6"$  (IF  $d_s > 6"$  FOR TYPE III ENCASEMENT POUR CONCRETE ON UNDISTURBED SOIL).
- SHORING OR SHEETING, IF USED, TO BE CUT OFF AT TOP OF ENCASEMENT.
- THESE ENCASEMENT DETAILS MAY ALSO BE APPLICABLE FOR CONDUITS OTHER THAN STORM OR SANITARY SEWER INSTALLATIONS. IN CERTAIN SITUATIONS WHERE CONDUIT DIAMETER "D" IS EXTREMELY LARGE, SEW SUPPORTS ON EACH SIDE OF SANITARY SEWER MAY ALSO BE REQUIRED. IF REQUIRED, SUPPORTS SHALL BE SPECIFIED AND DETAILED SEPARATELY ON PLAN AND PROFILE DRAWINGS.

|                                       |                      |
|---------------------------------------|----------------------|
| PARKER WATER<br>& SANITATION DISTRICT |                      |
| CONCRETE ENCASEMENT<br>TYPE II        |                      |
| SCALE: NONE                           | DATE: 2/96           |
| APPROVED: JFN                         | 5/98<br>4/01<br>1/08 |
| DISTRICT ENGINEER                     |                      |

2008 REVISION

SHEET 7



TYPE III  
CONCRETE ENCASEMENT FOR SANITARY SEWERS

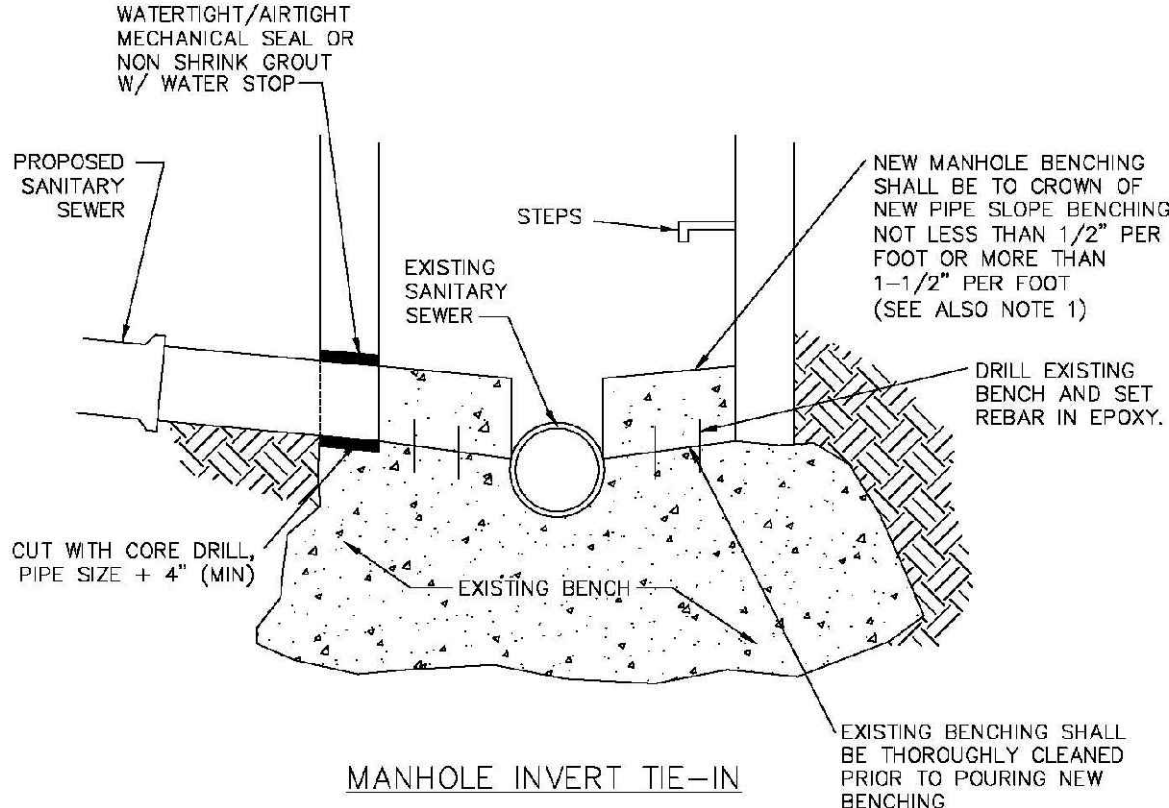
GENERAL NOTES FOR TYPE I, II, & III ENCASEMENT

- CONCRETE TO BE CAST AGAINST UNDISTURBED SOIL OR SHORING. IF OPTIONAL CONSTRUCTION JOINT IS USED, BOTTOM HALF OF ENCASEMENT IS POURED SEPARATELY. A ONE INCH LAYER OF SAND OR MORTAR SHALL BE PLACED BETWEEN BOTTOM OF SANITARY SEWER AND TOP OF CONCRETE.
- LENGTH OF ENCASEMENT FOR:  
(a) TYPE I & TYPE II ENCASEMENT SHALL EXTEND FULL TRENCH WIDTH EXCAVATED FOR PROPOSED SEWER OR CONDUIT.  
(b) TYPE III ENCASEMENT SHALL EXTEND AT LEAST TO FEET EACH SIDE OF WATER MAIN.
- UNLESS OTHERWISE NOTED ON PLAN/PROFILE DRAWINGS, TYPE I, II & III ENCASEMENTS NEED NOT BE REINFORCED. REINFORCEMENT, IF REQUIRED, TO BE SPECIFIED AND DETAILED SEPARATELY ON PLAN & PROFILE DRAWINGS.
- TYPE I, II OR III ENCASEMENTS ARE REQUIRED UNDER FOLLOWING CONDITIONS:  
(a) TYPE I OR TYPE II IF  $d_s \leq 18"$  (IF  $d_s \leq 12"$ ) EXCEPT FOR SANITARY SEWER CROSSING OVER OR UNDER WATER MAINS.  
(b) TYPE I OR TYPE II IF  $d_s \leq 18"$  (IF  $d_s \leq 12"$ ) EXCEPT FOR SANITARY SEWER CROSSING OVER TOP OF WATER MAINS, REGARDLESS OF DIMENSION  $d_s$ .  
(c) TYPE III IS REQUIRED FOR SANITARY SEWERS CROSSING OVER TOP OF WATER MAINS, REGARDLESS OF DIMENSION  $d_s$ .  
(d) EXCEPT FOR UNUSUAL CIRCUMSTANCES, WATER MAIN CROSSINGS, OR WHERE UNUSUAL SOIL CONDITIONS ARE ENCOUNTERED, TYPE I ENCASEMENT WILL NORMALLY BE SATISFACTORY.  
(e) IF THE SANITARY SEWER IS REPLACED OR CONSTRUCTED OF DUCTILE IRON PIPE (AWWA C-150 OR C-151), CONCRETE ENCASEMENT MAY NOT BE REQUIRED.
- FILLER MATERIAL BETWEEN CONDUITS TO BE:  
(a) APPROVED COMPRESSIBLE MATERIAL SUCH AS STYROFOAM, ETC. IF  $d_s \leq 4"$  &  $d_s \leq 6"$ .  
(b) COMPACTED CLASS "B" BEDDING IF  $d_s \leq 4"$  &  $d_s > 6"$  (IF  $d_s > 6"$  FOR TYPE III ENCASEMENT POUR CONCRETE ON UNDISTURBED SOIL).
- SHORING OR SHEETING, IF USED, TO BE CUT OFF AT TOP OF ENCASEMENT.
- THESE ENCASEMENT DETAILS MAY ALSO BE APPLICABLE FOR CONDUITS OTHER THAN STORM OR SANITARY SEWER INSTALLATIONS. IN CERTAIN SITUATIONS WHERE CONDUIT DIAMETER "D" IS EXTREMELY LARGE, SEW SUPPORTS ON EACH SIDE OF SANITARY SEWER MAY ALSO BE REQUIRED. IF REQUIRED, SUPPORTS SHALL BE SPECIFIED AND DETAILED SEPARATELY ON PLAN AND PROFILE DRAWINGS.
- CONCRETE ENCASED PIPING SHALL BE LINED WITH FELT LAYER.

|                                       |                       |
|---------------------------------------|-----------------------|
| PARKER WATER<br>& SANITATION DISTRICT |                       |
| CONCRETE ENCASEMENT<br>TYPE III       |                       |
| SCALE: NONE                           | DATE: 2/96            |
| APPROVED: PVR                         | 5/98<br>1/16<br>10/16 |
| DIRECTOR OF ENGINEERING               |                       |

2016 REVISION

SHEET 8.8



MANHOLE INVERT TIE-IN

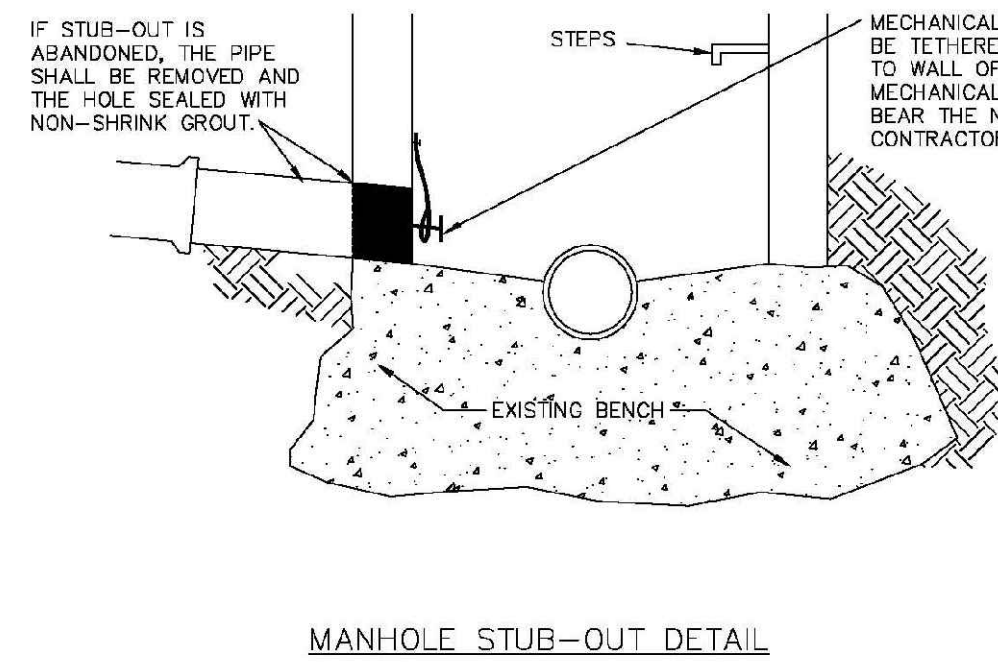
NOTES

- NEW BENCH SHALL INCLUDE REINFORCEMENT TO CONTROL CONCRETE CRACKING.

|                                       |               |
|---------------------------------------|---------------|
| PARKER WATER<br>& SANITATION DISTRICT |               |
| MANHOLE INVERT<br>TIE-IN DETAIL       |               |
| SCALE: NONE                           | DATE: 2/96    |
| APPROVED: PVR                         | 1/16<br>10/16 |
| DIRECTOR OF ENGINEERING               |               |

2016 REVISION

SHEET 8.9

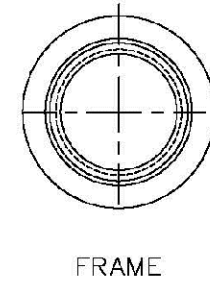


MANHOLE STUB-OUT DETAIL

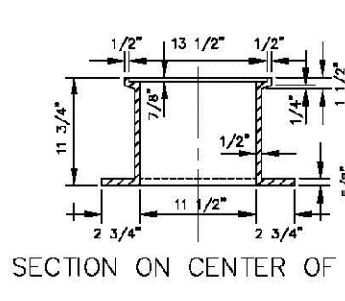
|                                       |               |
|---------------------------------------|---------------|
| PARKER WATER<br>& SANITATION DISTRICT |               |
| MANHOLE STUB-OUT<br>DETAIL            |               |
| SCALE: NONE                           | DATE: 2/96    |
| APPROVED: PVR                         | 1/16<br>10/16 |
| DIRECTOR OF ENGINEERING               |               |

2016 REVISION

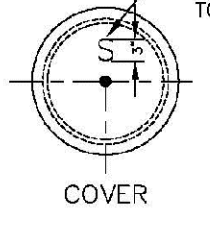
SHEET 8.10



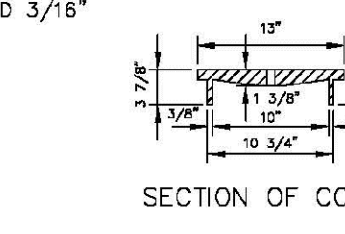
FRAME



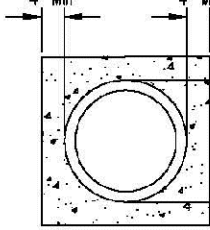
SECTION ON CENTER OF FRAME



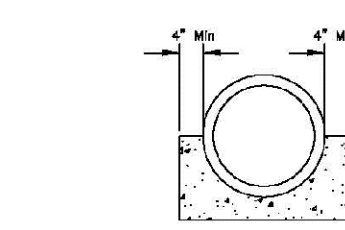
COVER



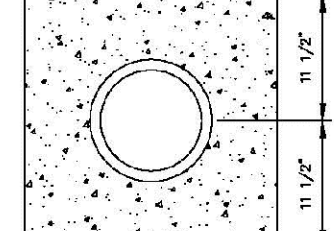
SECTION OF COVER



SECTION B-B



SECTION C-C

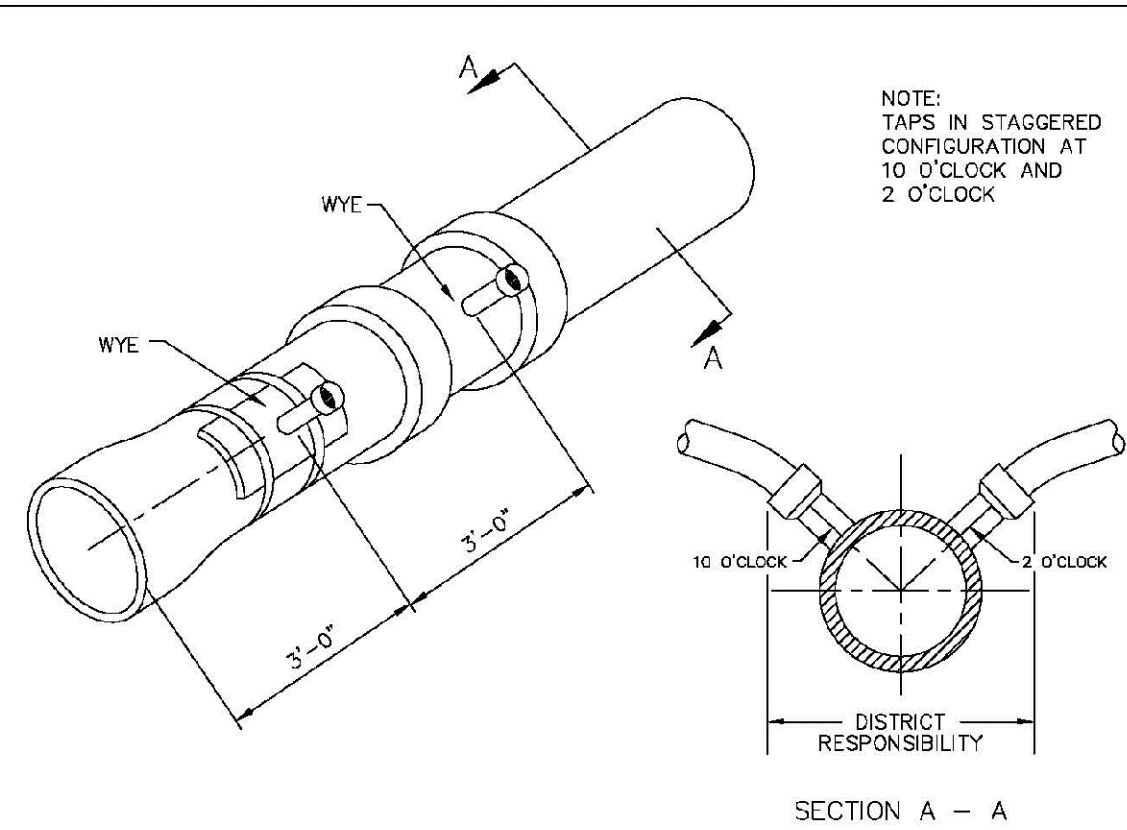


SECTION A-A

|                                       |               |
|---------------------------------------|---------------|
| PARKER WATER<br>& SANITATION DISTRICT |               |
| IN-LINE CLEANOUT SECTIONS             |               |
| SCALE: NONE                           | DATE: 2/96    |
| APPROVED: PVR                         | 1/16<br>10/16 |
| DIRECTOR OF ENGINEERING               |               |

2016 REVISION

SHEET 8.12



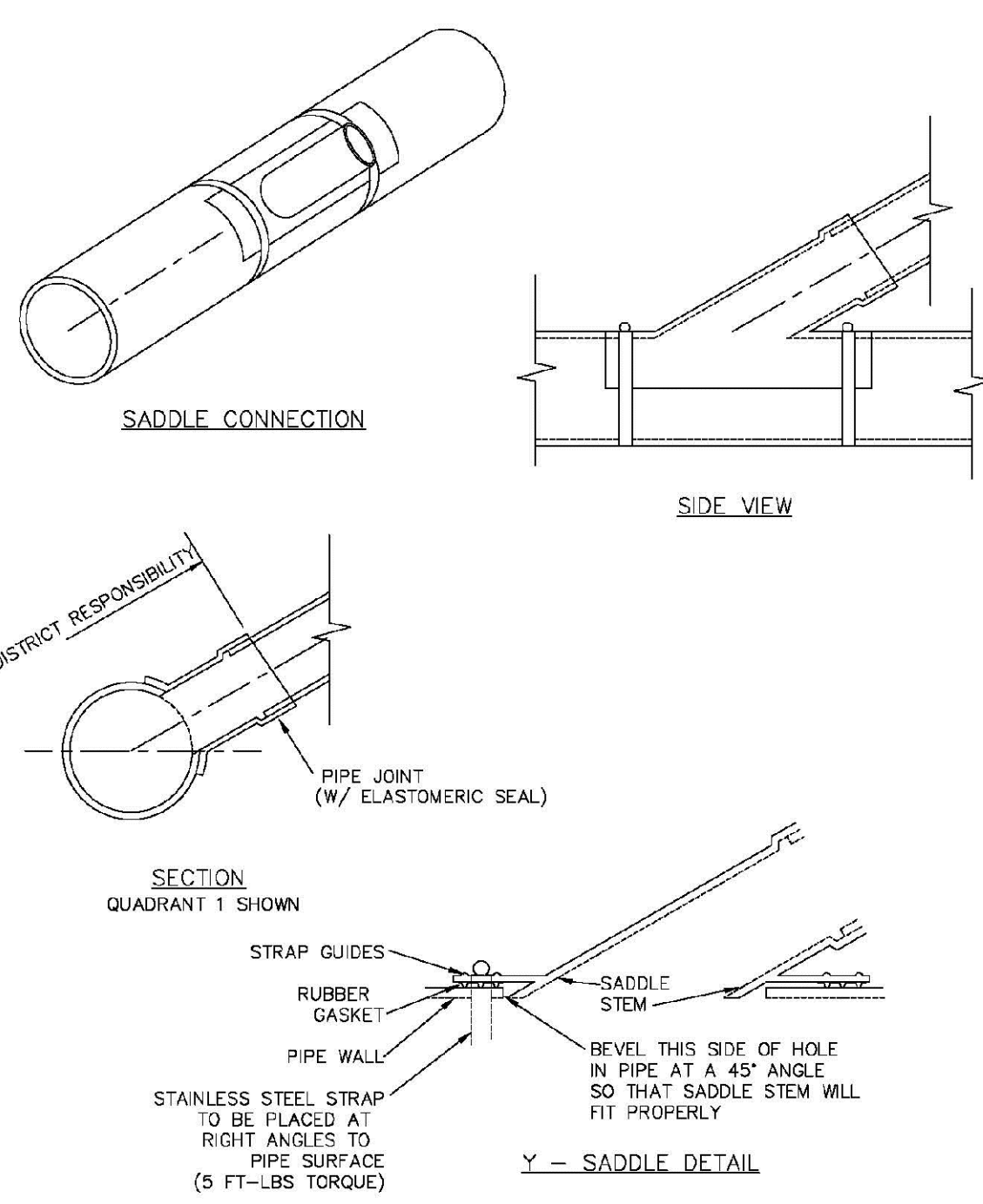
DOMESTIC SEWER TAPPING DETAIL

Sewer service connections shall be positioned at either the 2 o'clock or the 10 o'clock position on the circumference of the sewer main. On new installations, tee or wye fittings shall be used. When tapping into existing sewer main, a saddle connection and approved coring method shall be used. The minimum distance between service connections made along the pipe shall be 3 feet. The minimum distance from either the bell or spigot end of a pipe shall be 3 feet. The minimum distance from the center of a manhole to a service connection shall be either 7 feet or the transition point from the manhole trench to the normal pipe trench, whichever is greater. A maximum of 4 sewer service connections shall be allowed per 20 foot length of pipe. In all cases, a specific soils investigation should be conducted to assure that the external loading will be within allowable limits regardless of the number of taps involved.

|                                       |                               |
|---------------------------------------|-------------------------------|
| PARKER WATER<br>& SANITATION DISTRICT |                               |
| DOMESTIC SEWER<br>TAPPING DETAIL      |                               |
| SCALE: NONE                           | DATE: 2/96                    |
| APPROVED: PVR                         | 4/01<br>1/08<br>1/16<br>10/16 |
| DIRECTOR OF ENGINEERING               |                               |

2016 REVISION

SHEET 8.13



NOTES:

- SADDLE FITTINGS TO BE PER ASTM D3034.
- CONNECTION SHALL BE Y - SADDLE WITH TWO BONDS

|                                       |               |
|---------------------------------------|---------------|
| PARKER WATER<br>& SANITATION DISTRICT |               |
| P.V.C. SADDLE<br>CONNECTION DETAIL    |               |
| SCALE: NONE                           | DATE: 2/96    |
| APPROVED: PVR                         | 1/16<br>10/16 |
| DIRECTOR OF ENGINEERING               |               |

2016 REVISION

SHEET 8.14

**INSPECTION POLICY:**

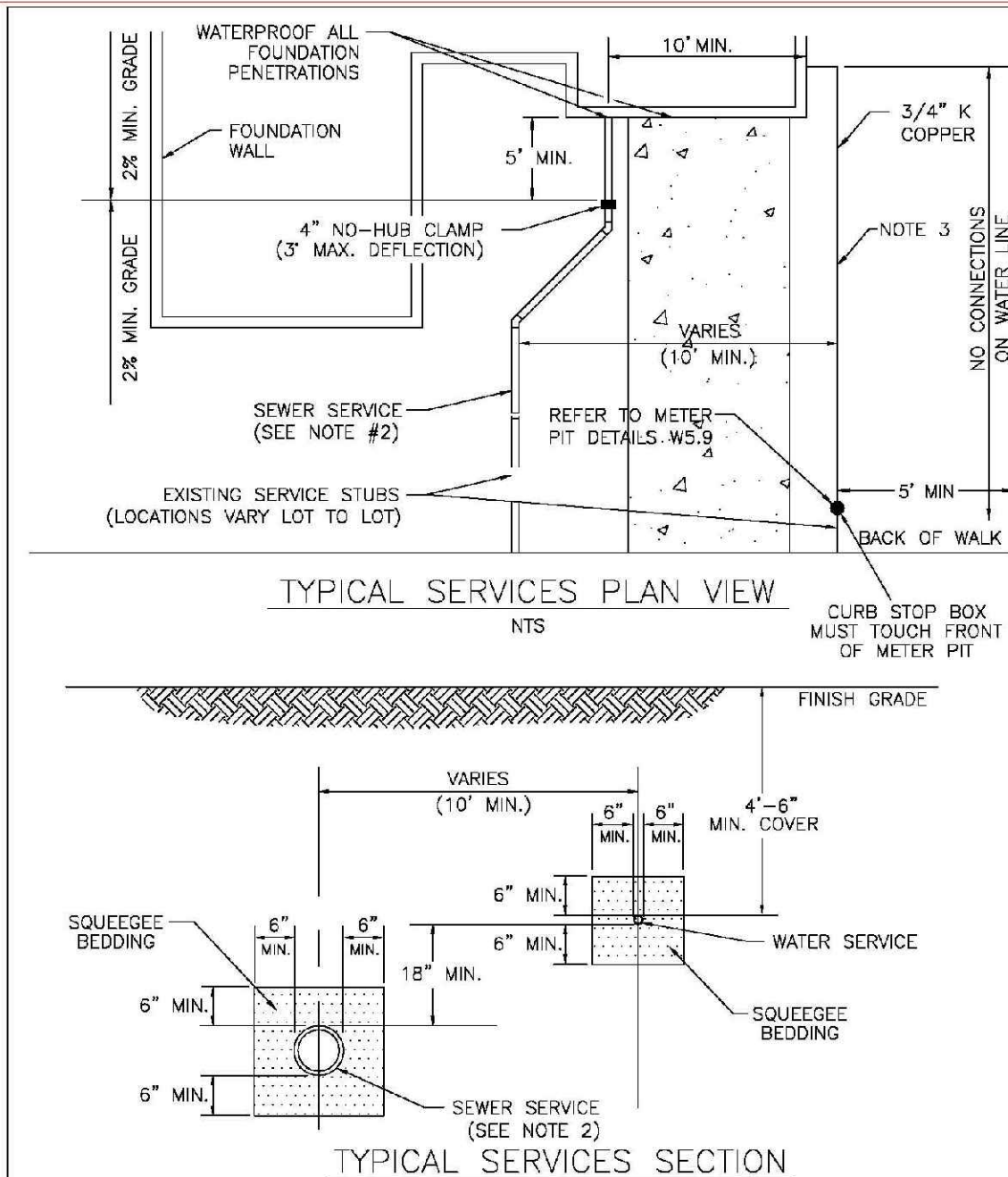
1. ALL SERVICE INSPECTIONS MUST BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE OF THE REQUESTED INSPECTION.
2. SERVICE INSPECTIONS WILL OCCUR BETWEEN 1:00 P.M. AND 3:00 P.M. SPECIFIC INSPECTION TIMES ARE NOT AVAILABLE.
3. IF THE CONTRACTOR IS NOT READY FOR INSPECTION WHEN THE INSPECTOR ARRIVES AT THE SITE OR SERVICE FAULT, A RE-INSPECTION WILL HAVE TO BE SCHEDULED IN CONFORMANCE WITH NOTES 1 AND 2 ABOVE AND A RE-INSPECTION FEE CHARGED.
4. SHOULD THE SERVICE LINES BE DAMAGED BY LATER CONSTRUCTION, AN INSPECTION OF THE REPAIR WILL BE REQUIRED IN ACCORDANCE WITH NOTES 1 AND 2 ABOVE.
5. THE CONTRACTOR SHALL LEAVE ALL PIPE AND FITTINGS EXPOSED FOR THE INSPECTOR TO OBSERVE. INSPECTORS WILL ENTER ANY EXISTING EXHAUST OR SEWER WATER MAINS TO THE TOP LAYER OF BEDDING CAN BE ADDED AFTER THE INSPECTION HAS BEEN COMPLETED.
6. ALL EXCAVATIONS SHALL BE IN ACCORDANCE WITH OSHA STANDARDS.
7. LOTS WITHOUT BUILDING ADDRESSES BEFORE DISTRICT INSPECTION OR METER SET WILL FAIL AUTOMATICALLY.
8. CONTRACTOR MUST BE PRESENT AT TIME OF INSPECTION, UNLESS COORDINATED WITH DISTRICT INSPECTOR.

1. ACCEPTABLE PIPE MATERIALS SHALL BE K-COPPER TUBING, (3/4" MIN.)
2. APPROVED WELDING TO BE SQUEEZE.
3. ONLY ONE COUPLING WILL BE ALLOWED BETWEEN THE STOP-B AND BUILDING. COMPRESSION COUPLINGS WILL NOT BE ALLOWED ON NEW CONSTRUCTION. SILVER SOLDERED JOINTS MUST BE USED ON SERVICES LARGER THAN 3/4". SILVER SOLDERED JOINTS MUST BE INSPECTED BY PWSD PRIOR TO BURIAL. FLARED COUPLINGS WILL BE ALLOWED ON ALL SERVICES 3/4" AND SMALLER.
4. A WATER SERVICE WHICH CROSSES A SEWER SERVICE CAN DO SO ONLY AT A 45-90° ANGLE. THE WATER SERVICE MUST BE LOCATED A MINIMUM OF 18" FROM SEWER SERVICE.
5. WATER SERVICE FOUNDATION PENETRATIONS SHALL BE WATERPROOFED USING MASTIC OR OTHER APPROVED METHOD. CRAWL SPACE REQUIRES CONTINUOUS COPPER WITH A 1" BURY.
6. THE STOP BOX MUST BE PLUMB AND CENTERED OVER THE NUT. IT SHOULD BE STRAPPED TO THE METER PIT (RESIDENTIAL INSTALLATIONS) OR CENTERED OVER THE EASEMENT LINE (COMMERCIAL INSTALLATIONS). THE ASSEMBLY MUST BE AT OR SLIGHTLY ABOVE FINISHED GRADE.
7. MOVED CURB BOXES MUST BE INSPECTED BY PWSD PRIOR TO BURIAL.
8. WATERLINE MUST BE ATTACHED TO A SUPPORT BOARD THAT IS MOUNTED TO THE WALL.
9. NO VOIDS ALLOWED UNDER WATERLINES FROM STOP BOX TO FOUNDATION.
10. CURBSTOP BOXES AND METER PITS CANNOT BE IN DRIVEWAYS.
11. ONLY 3/4" (JUMPER) PIPES (RESIDENTIAL) ARE ALLOWED. (JUMPER) PIPES WILL BE REMOVED PRIOR TO METER SET DATE.
12. ALL SERVICES WILL BE PERMANENTLY MARKED ON CURB FACE AS FOLLOWS:  
"M" FOR SANITARY SERVICE  
"W" FOR WATER SERVICES
13. NO SPICES OR FLARED COUPLINGS ALLOWED ON SERVICES LARGER THAN 3/4". SILVER SOLDERED JOINTS MUST BE USED IN MOVING STOPBOXES ON SERVICES LARGER THAN 3/4". SILVER SOLDERED JOINTS MUST BE INSPECTED BY PWSD PRIOR TO BURIAL. FLARED COUPLINGS WILL BE ALLOWED ON ALL SERVICES 3/4" AND SMALLER.

DISTRICT POLICIES & INSTALLATION

|                                                              |            |
|--------------------------------------------------------------|------------|
| PARKER WATER<br>& SANITATION DISTRICT                        |            |
| DISTRICT POLICIES & INSTALLATION<br>NOTES FOR WATER SERVICES |            |
| SCALE: NONE                                                  | DATE: 2/96 |
| APPROVED:                                                    | 1/04       |
| PVR                                                          | 1/16       |
| DIRECTOR OF ENGINEERING                                      | 10/18      |

SHEET W1.1

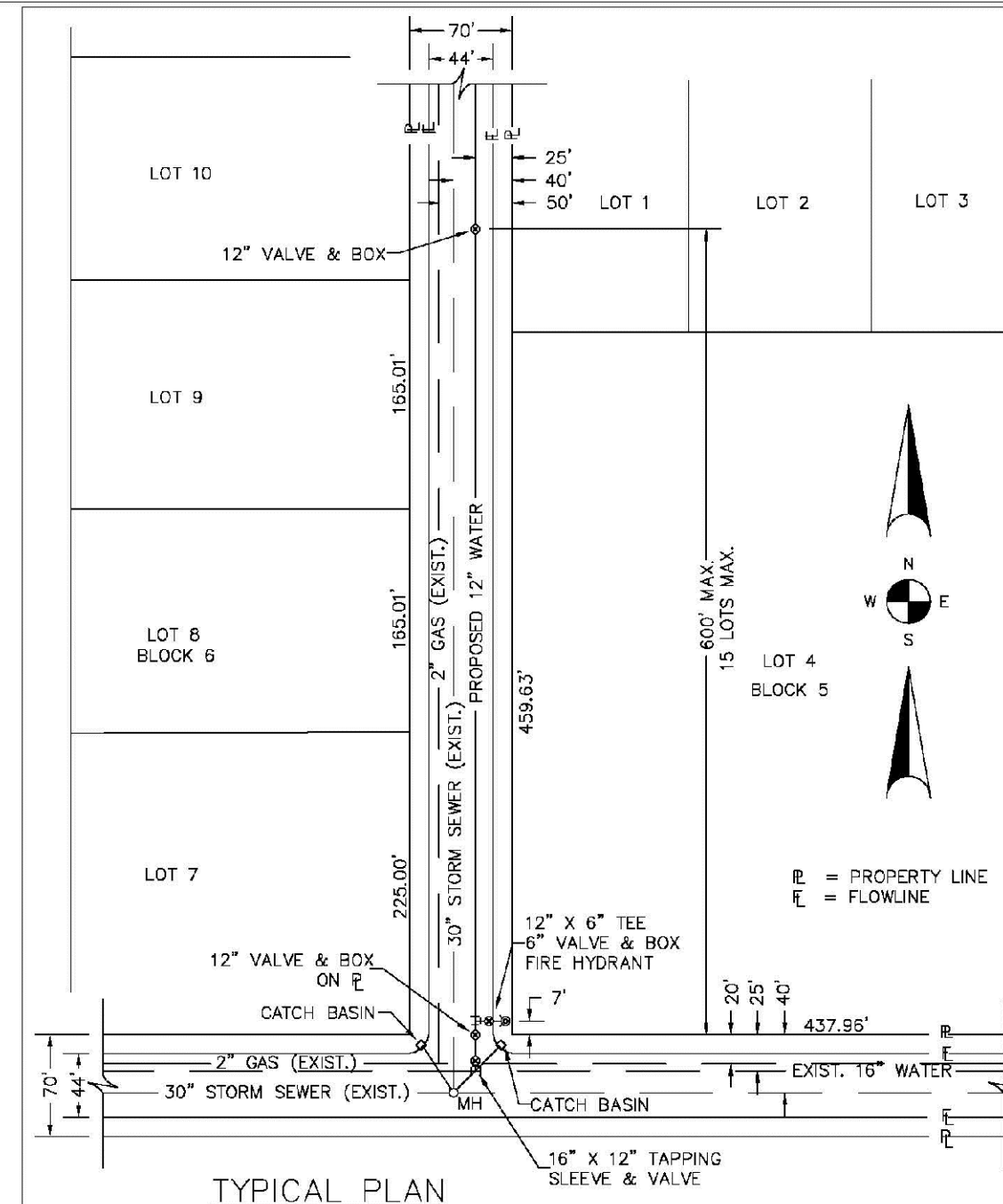


NOTE

1. SEE SHEET W1.1 FOR DISTRICT POLICIES AND INSTALLATION NOTES.
2. REFER TO SEWER SERVICES DETAIL SHEET S1.2.
3. 4" PVC SLEEVES REQUIRED FOR SERVICE LINES UNDER CONCRETE SURFACE.

|                                       |                                      |
|---------------------------------------|--------------------------------------|
| PARKER WATER<br>& SANITATION DISTRICT |                                      |
| TYPICAL WATER SERVICES                |                                      |
| SCALE: NONE                           | DATE: 2/96                           |
| APPROVED:<br>PVR                      | 1/04 10/16<br>06/05<br>12/07<br>1/16 |
| DIVISION OF ENGINEERING               |                                      |

SHEET W1.2

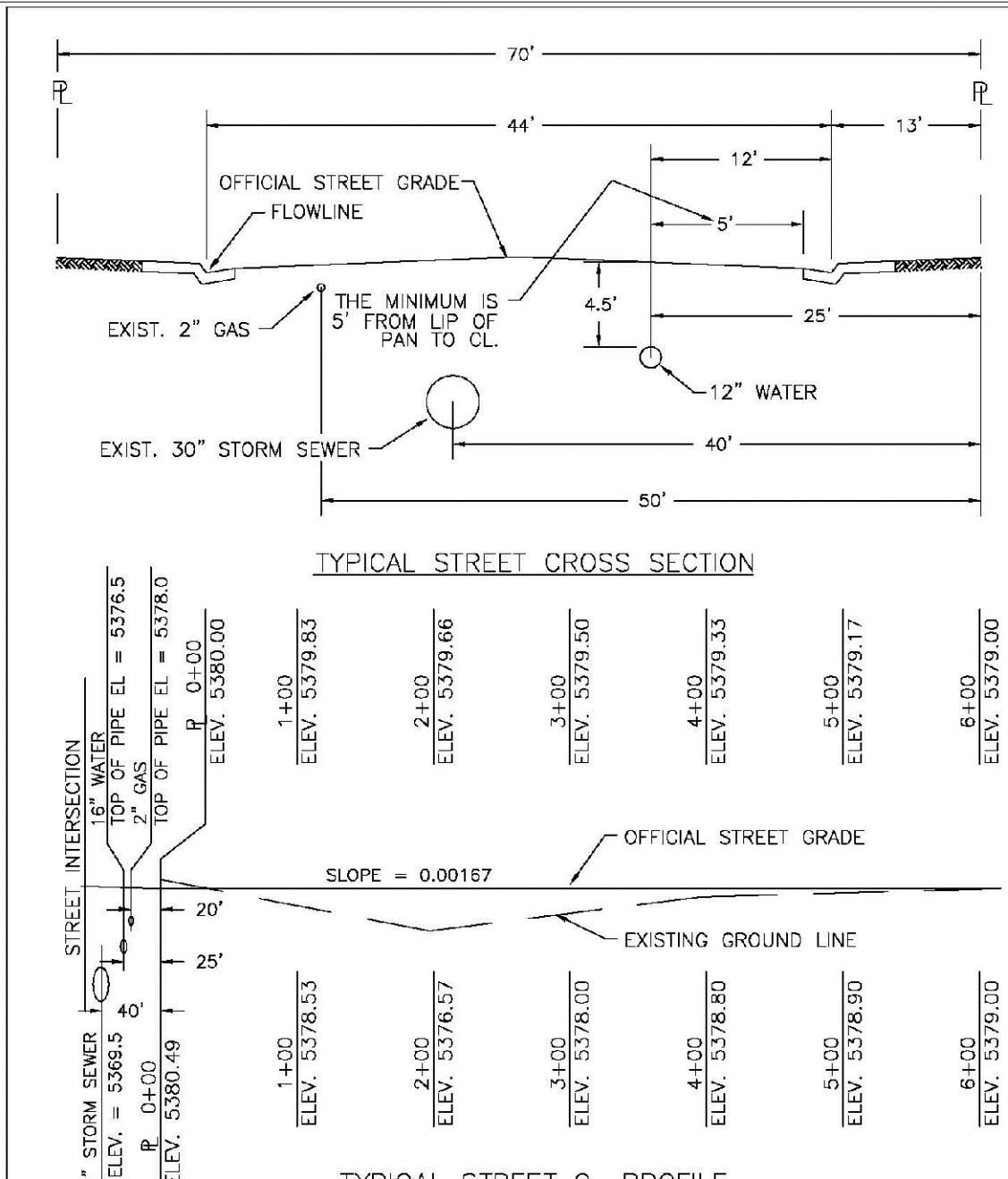


NOTES:

1. SEE "TYPICAL STREET CROSS SECTION - TYPICAL STREET Q PROFILE" DRAWING.
2. ALL FIRE HYDRANTS TO BE LOCATED AT POINTS OTHER THAN CORNER INTERSECTIONS SHALL BE INSTALLED AT A LOT LINE EXTENDED.

|                                                                                                                                                 |                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| <p align="center"><b>PARKER WATER<br/>&amp; SANITATION DISTRICT</b></p> <p align="center"><b>WATER DISTRIBUTION SYSTEM<br/>TYPICAL PLAN</b></p> |                   |
| SCALE: <u>NONE</u>                                                                                                                              | DATE: <u>2/96</u> |
| APPROVED:<br><br><u>PVR</u><br>DIRECTOR OF ENGINEERING                                                                                          | 1/16<br>10/16     |

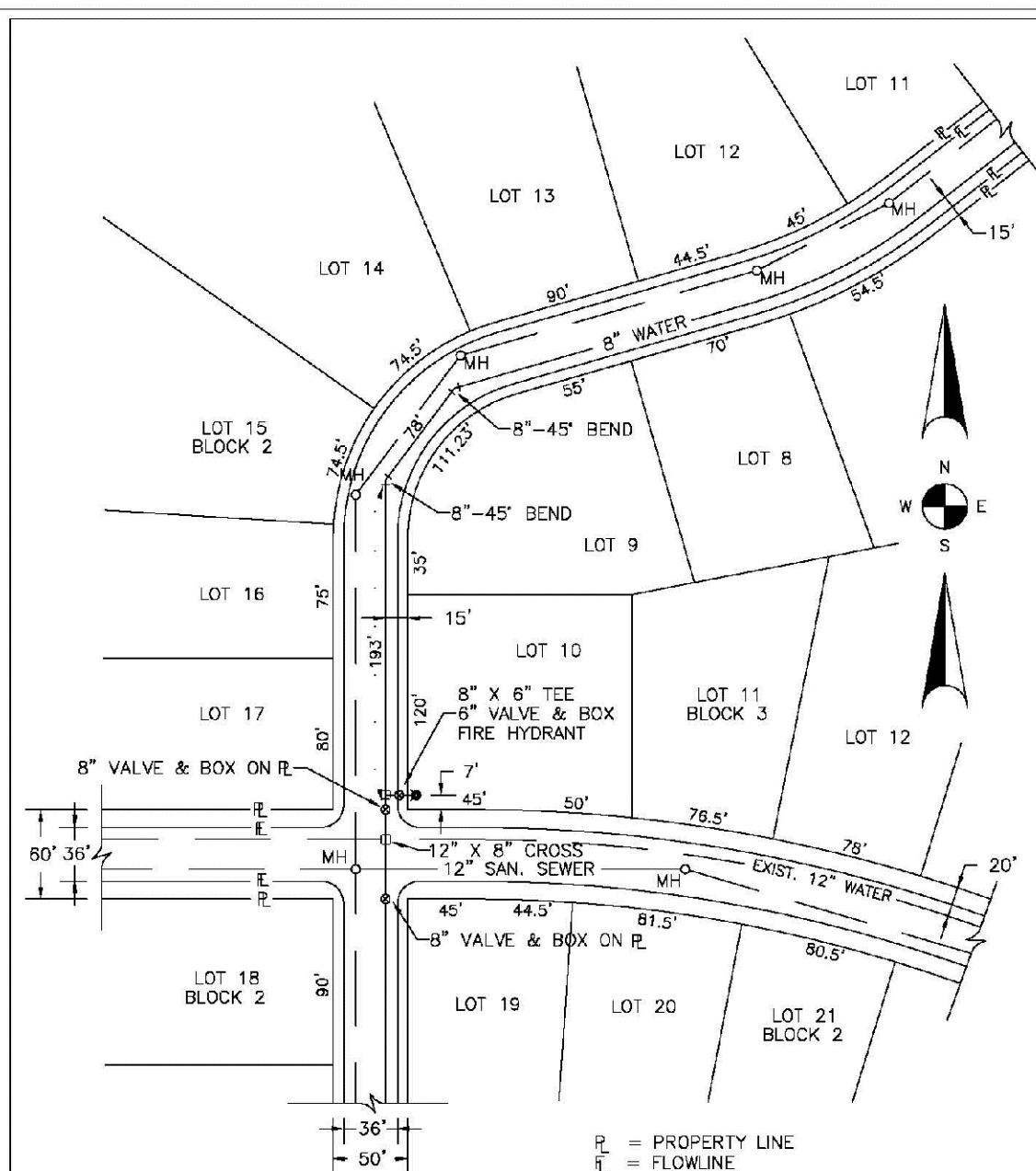
SHEET W2.1



|                                                                                                   |
|---------------------------------------------------------------------------------------------------|
| PARKER WATER<br>& SANITATION DISTRICT<br>TYPICAL STREET CROSS SECTION<br>TYPICAL STREET & PROFILE |
|---------------------------------------------------------------------------------------------------|

|                         |                   |
|-------------------------|-------------------|
| SCALE: <u>NONE</u>      | DATE: <u>2/96</u> |
| APPROVED:               | 1/16              |
| <u>PVR</u>              | 10/16             |
| DIRECTOR OF ENGINEERING |                   |

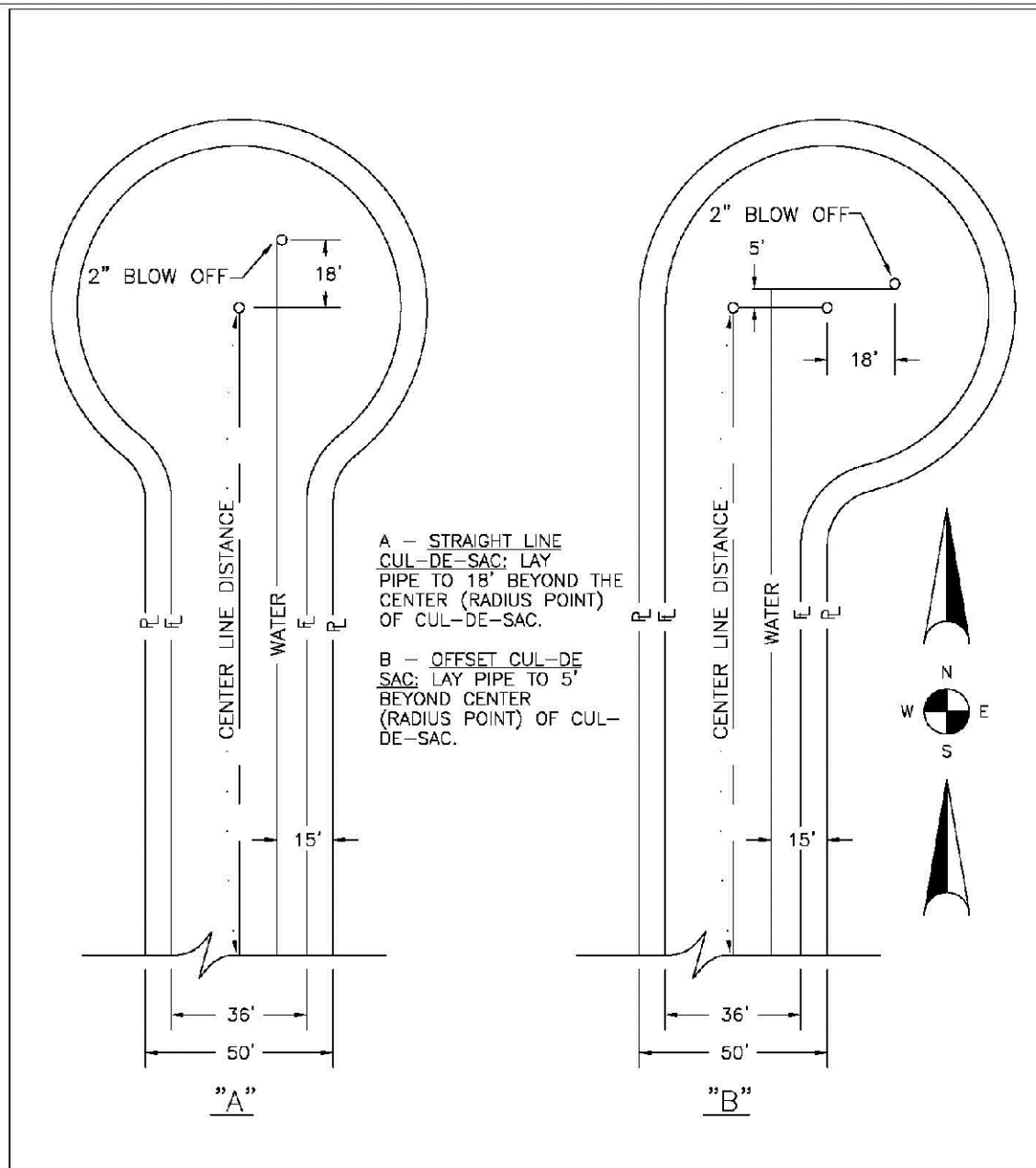
SHEET W2.2



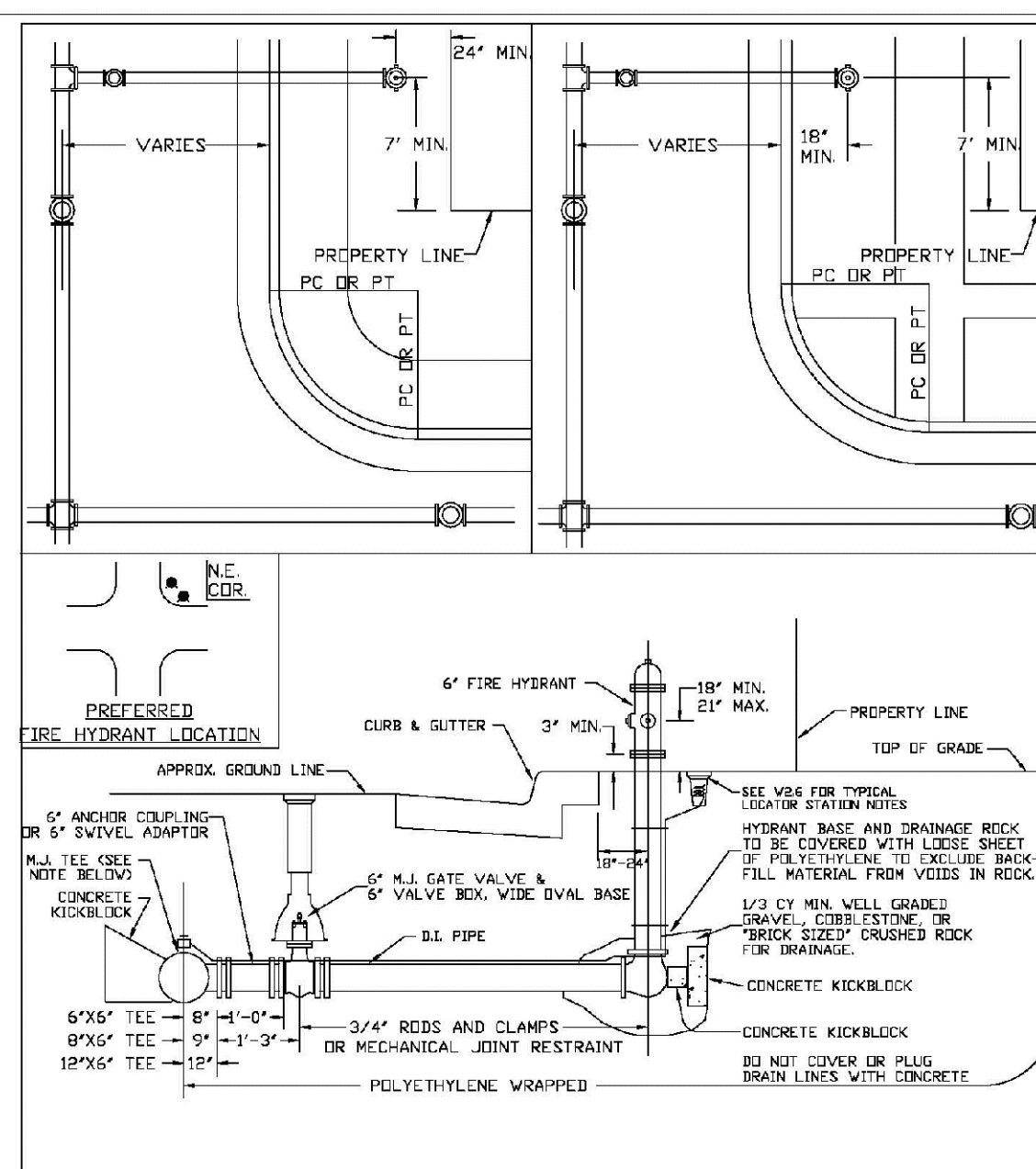
NOTE: WATER AND SEWER MAY NEVER BE CLOSER THAN 10' HORIZONTALLY AND MUST MAINTAIN A MINIMUM OF 5' FROM THE LIP OF PAN ON THE GUTTER.

|                                                              |               |
|--------------------------------------------------------------|---------------|
| PARKER WATER<br>& SANITATION DISTRICT                        |               |
| WATER DISTRIBUTION SYSTEM<br>TYPICAL PLAN FOR CURVED STREETS |               |
| SCALE: NONE                                                  | DATE: 2/96    |
| APPROVED:<br>PVR                                             | 1/16<br>10/16 |
| DIRECTOR OF ENGINEERING                                      |               |

SHEET W2.3



EET W2.4

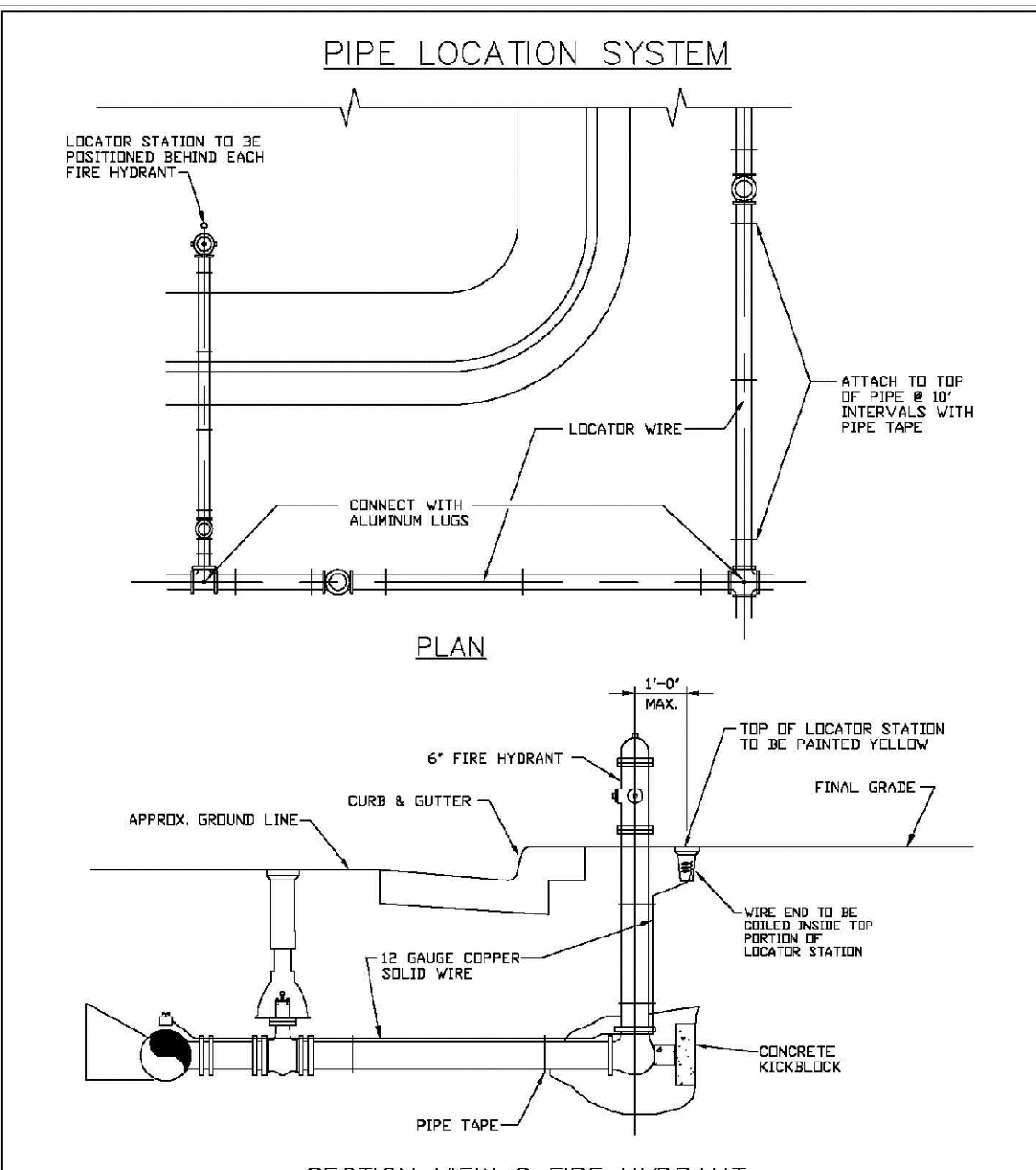


NOTES:

1. ALTERNATE TO THE ABOVE: FASTEN M.J. VALVE DIRECTLY TO A M.J. ANCHOR TEE (ALSO CALLED SWIVEL TEE)
2. NO HORIZONTAL OR VERTICAL BENDS ARE ALLOWED IN FIRE HYDRANT BRANCH
3. NO PORTION OF FIRE HYDRANT MAY
4. FIRE HYDRANT EXTENSIONS MAY NOT PENETRATE INTO SIDEWALK AREA.

|                                          |                                      |
|------------------------------------------|--------------------------------------|
| PARKER WATER<br>& SANITATION DISTRICT    |                                      |
| FIRE HYDRANTS<br>LOCATION & INSTALLATION |                                      |
| SCALE: NONE                              | DATE: 2/98                           |
| APPROVED:<br><br>PVR                     | 4/01 10/98<br>01/92<br>12/07<br>1/96 |
| DIRECTOR OF ENGINEERING                  |                                      |

SHEET W2.1



**NOTES:**

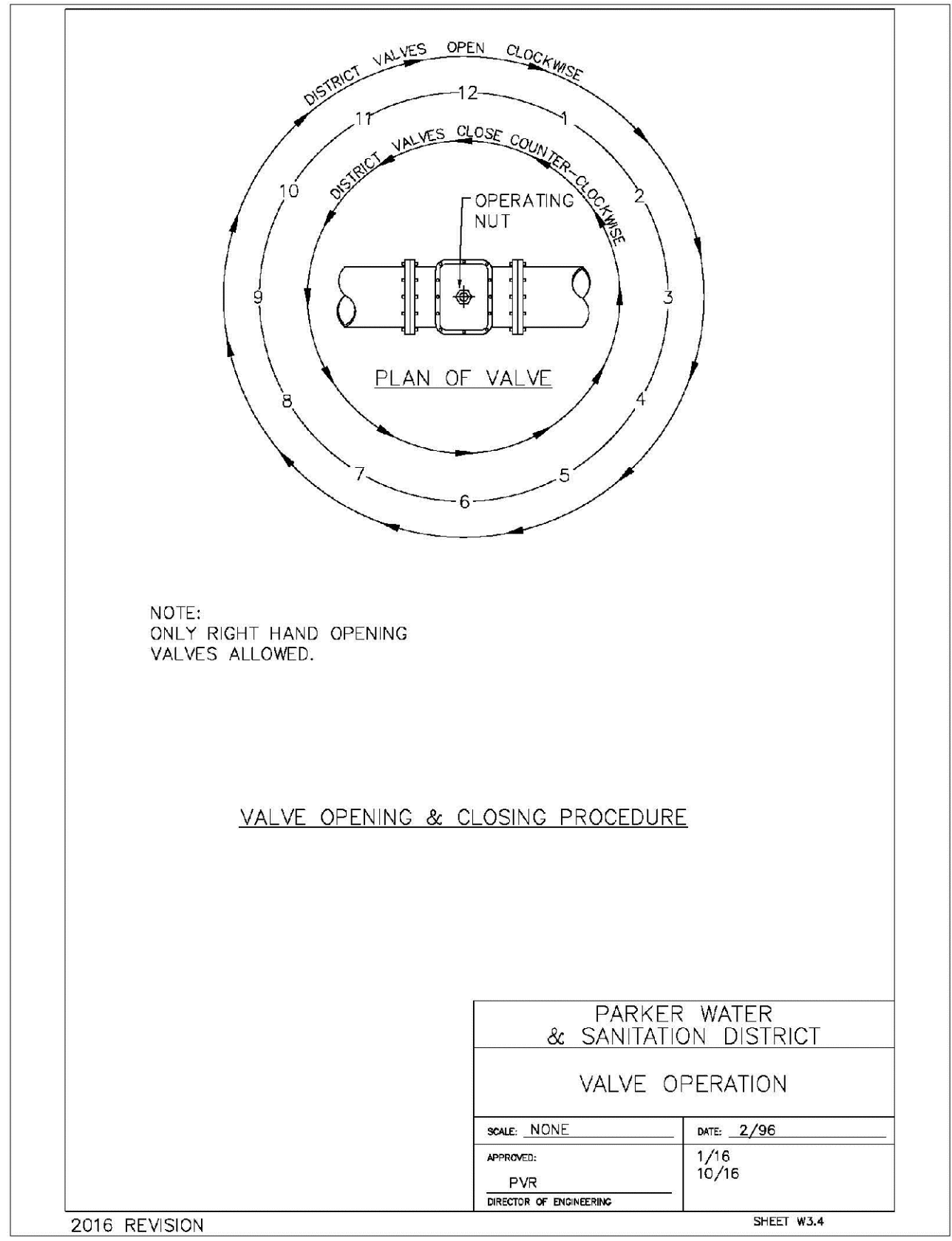
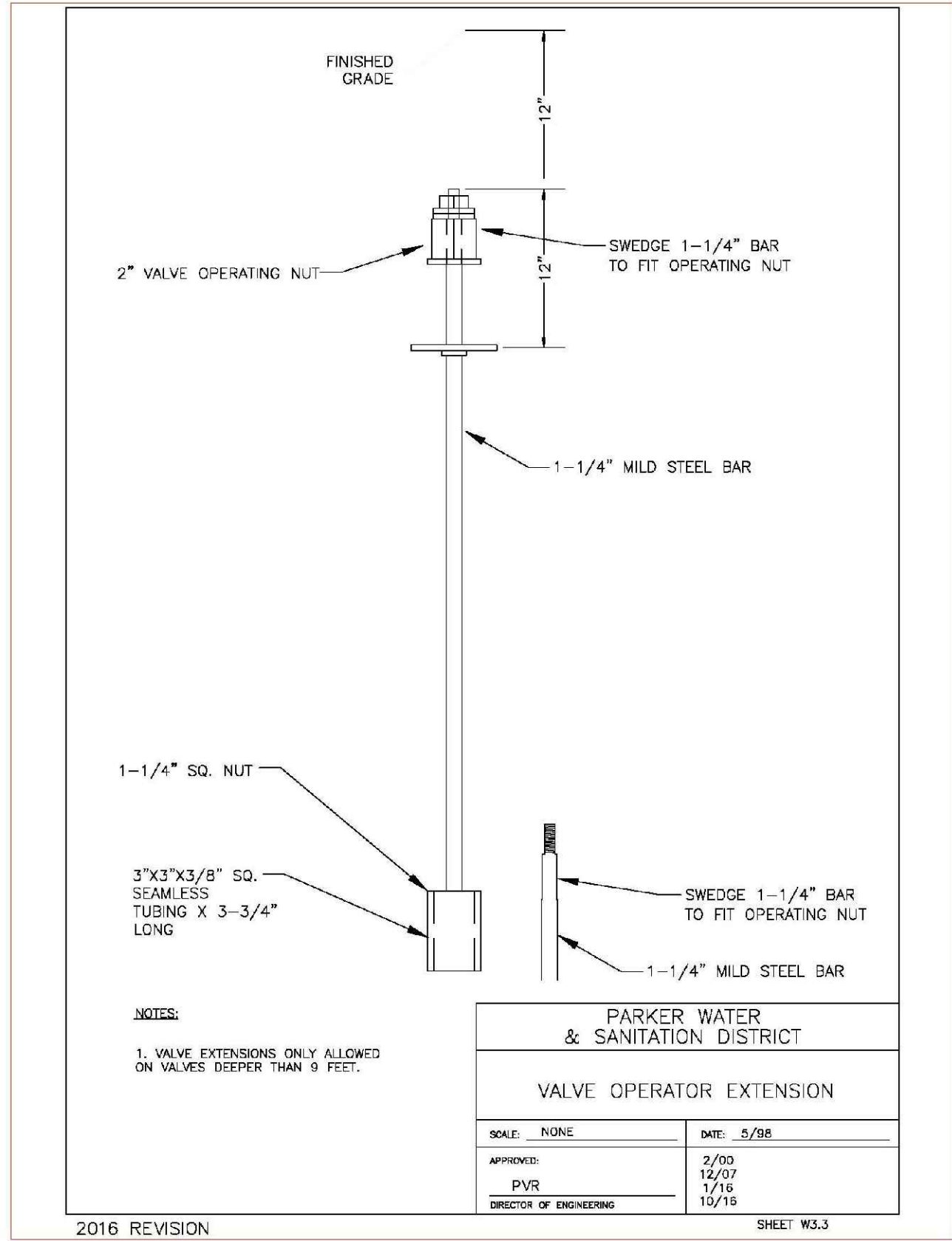
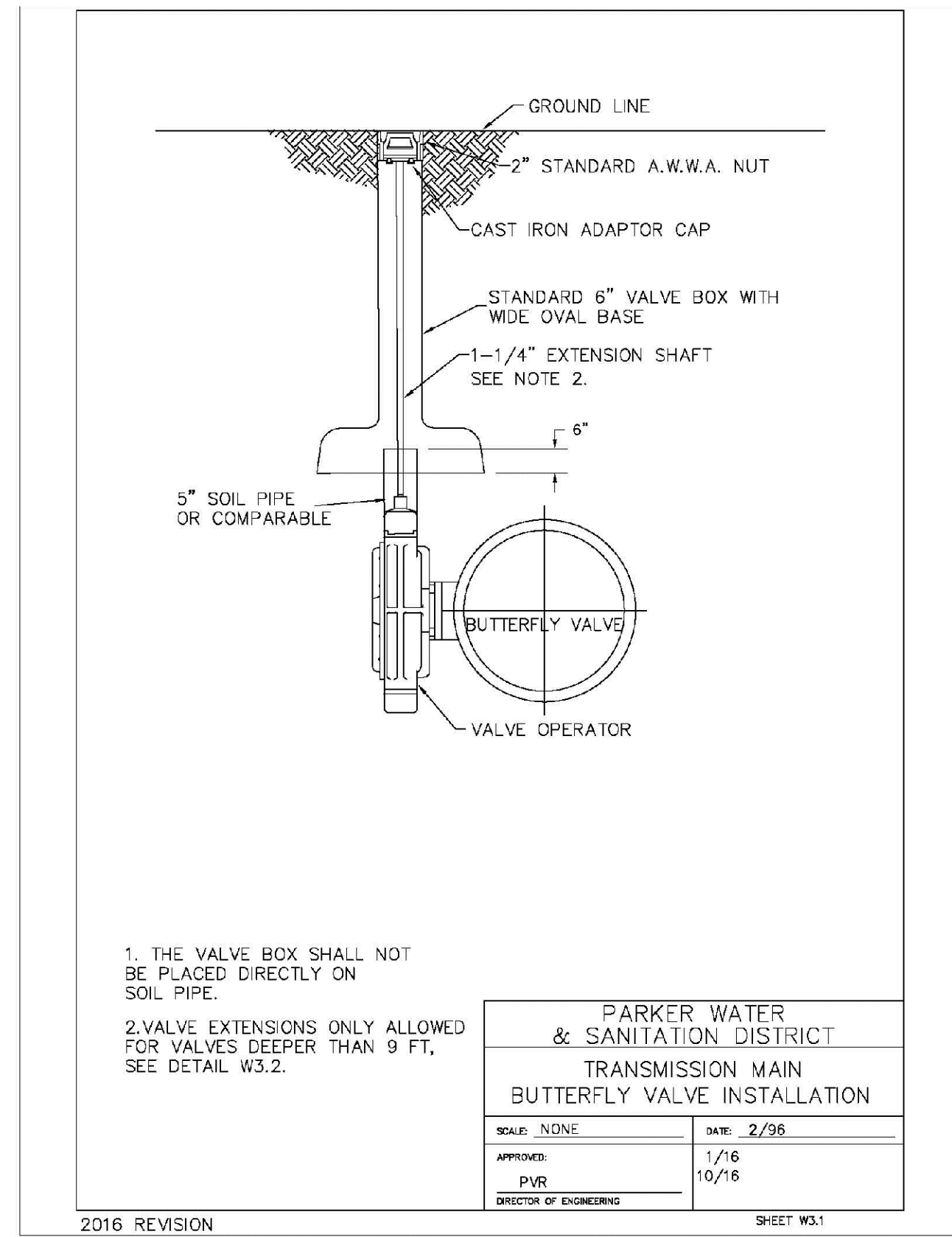
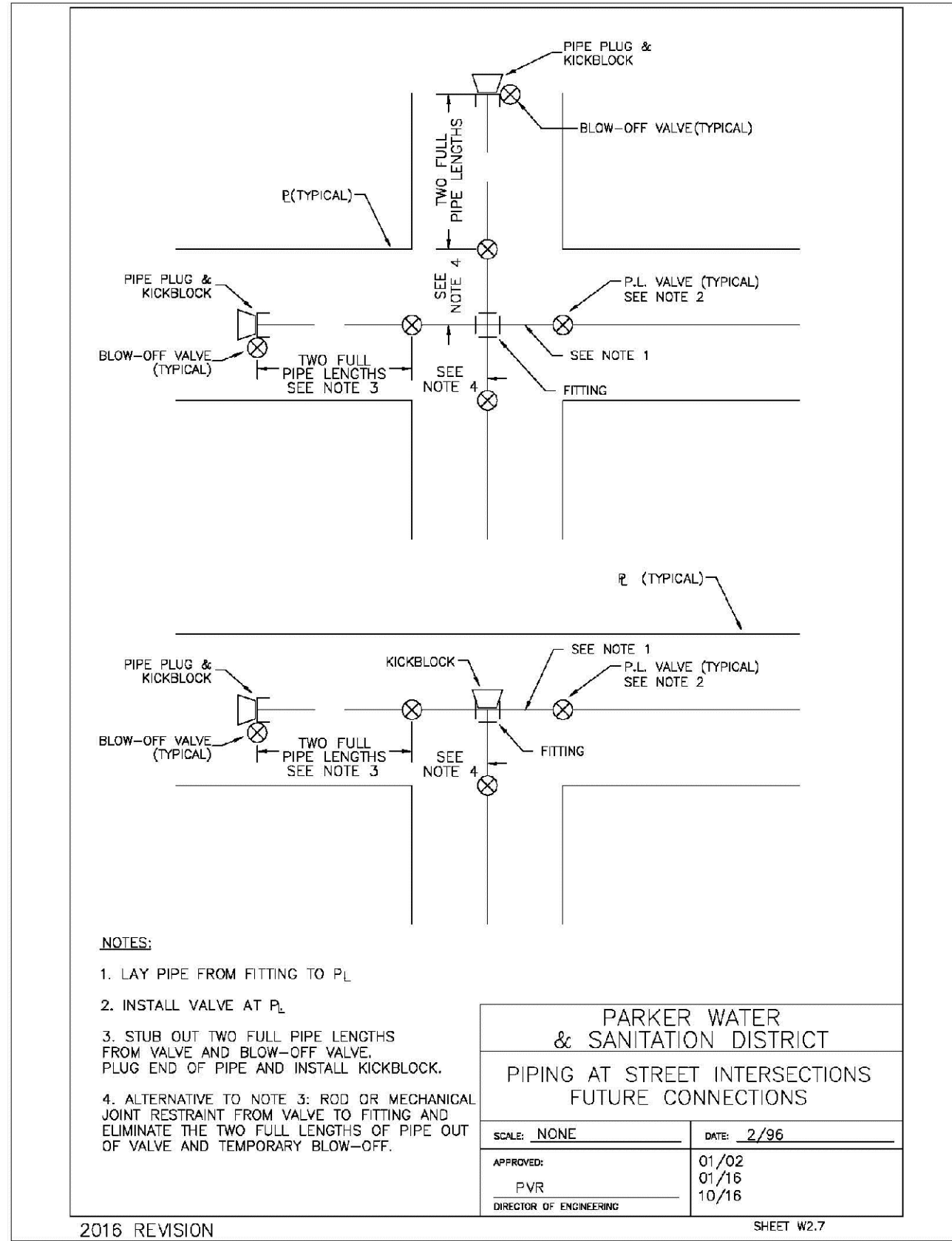
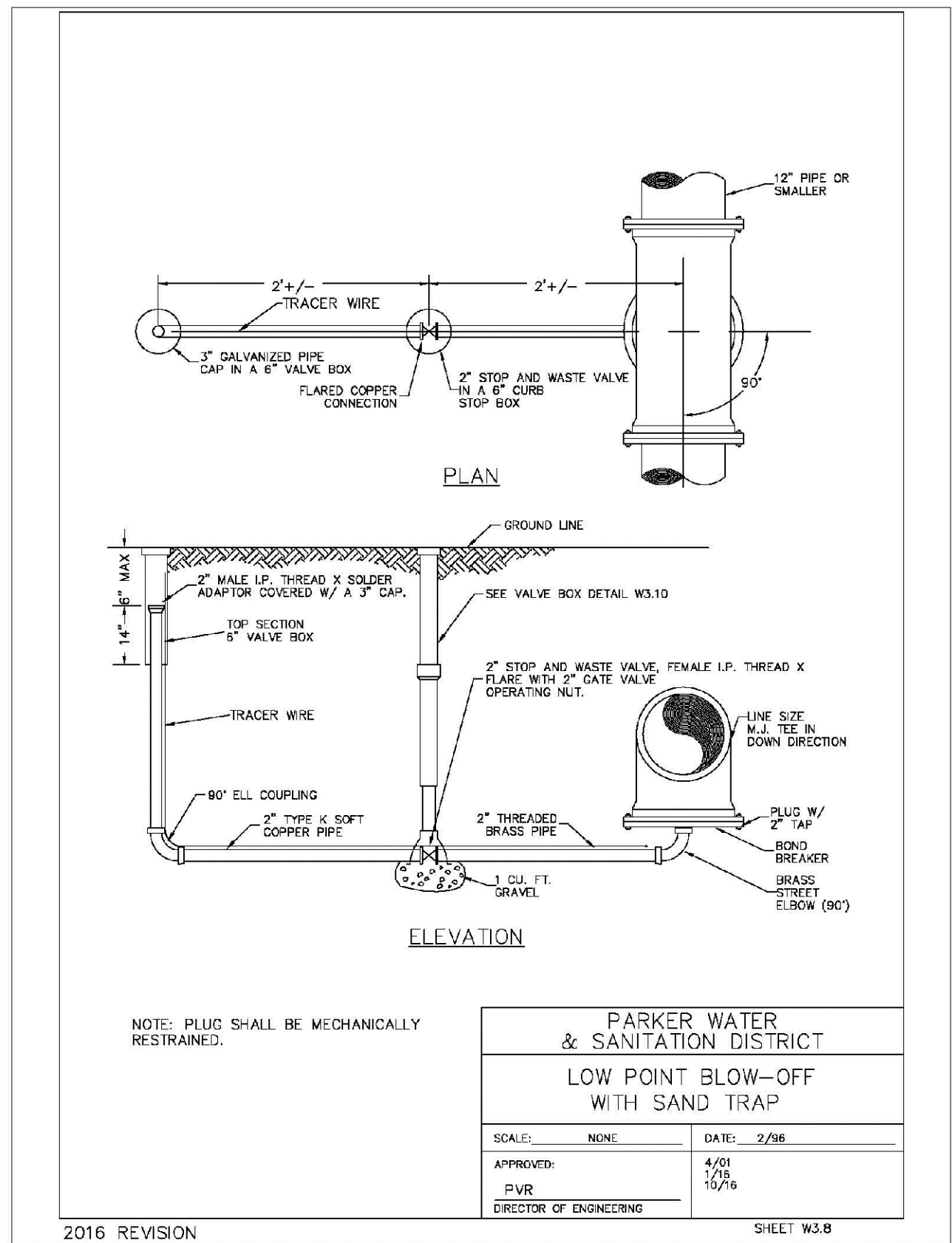
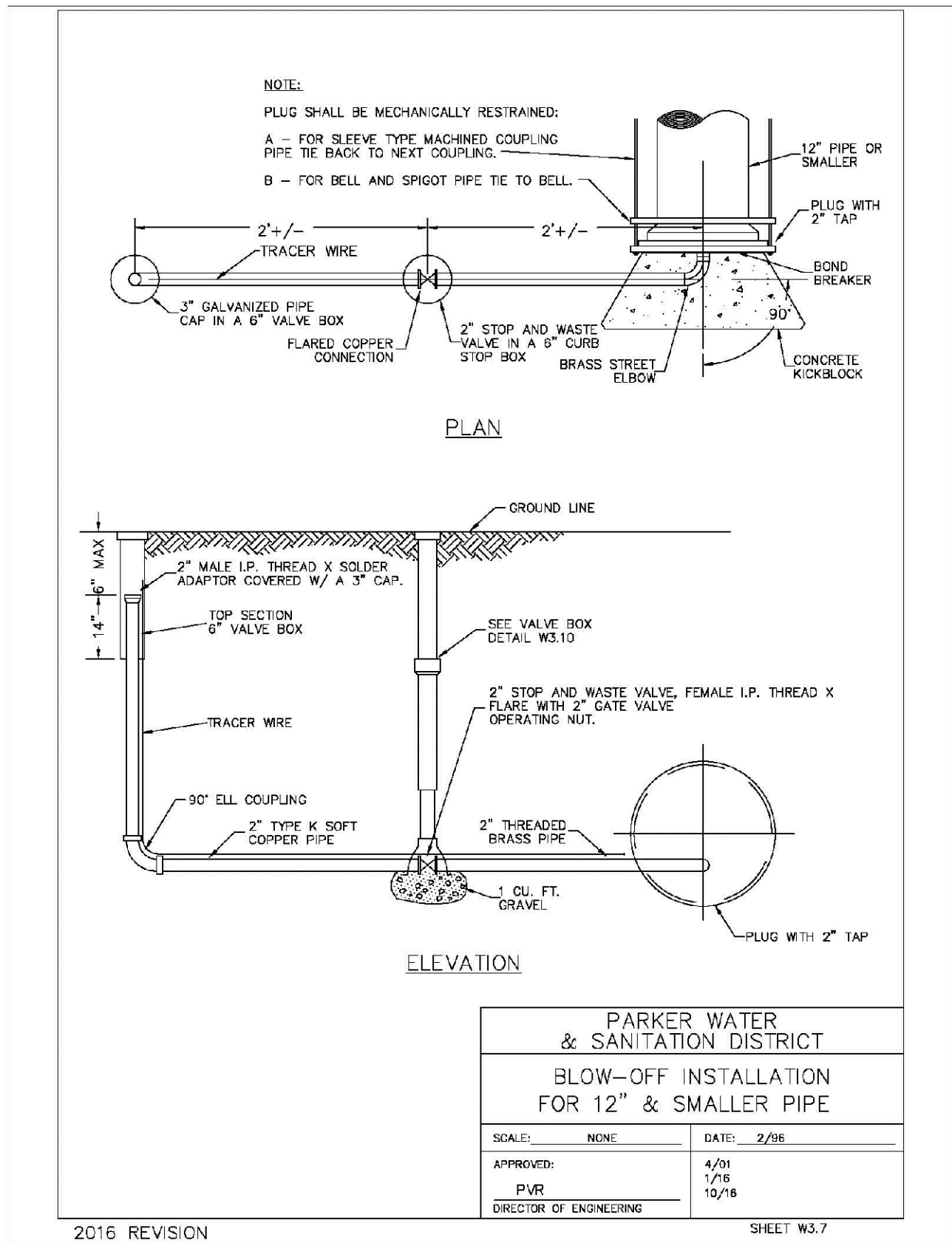
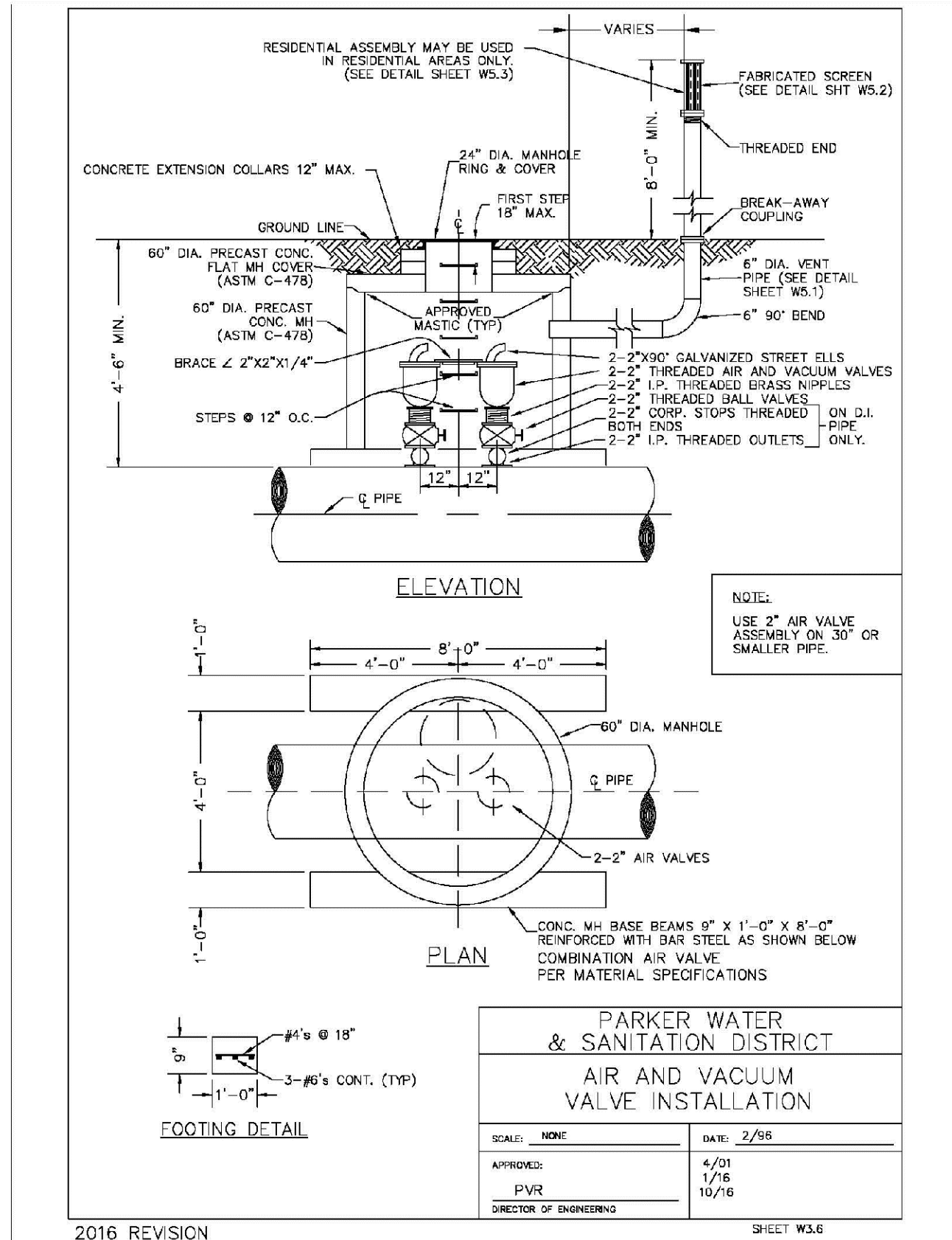
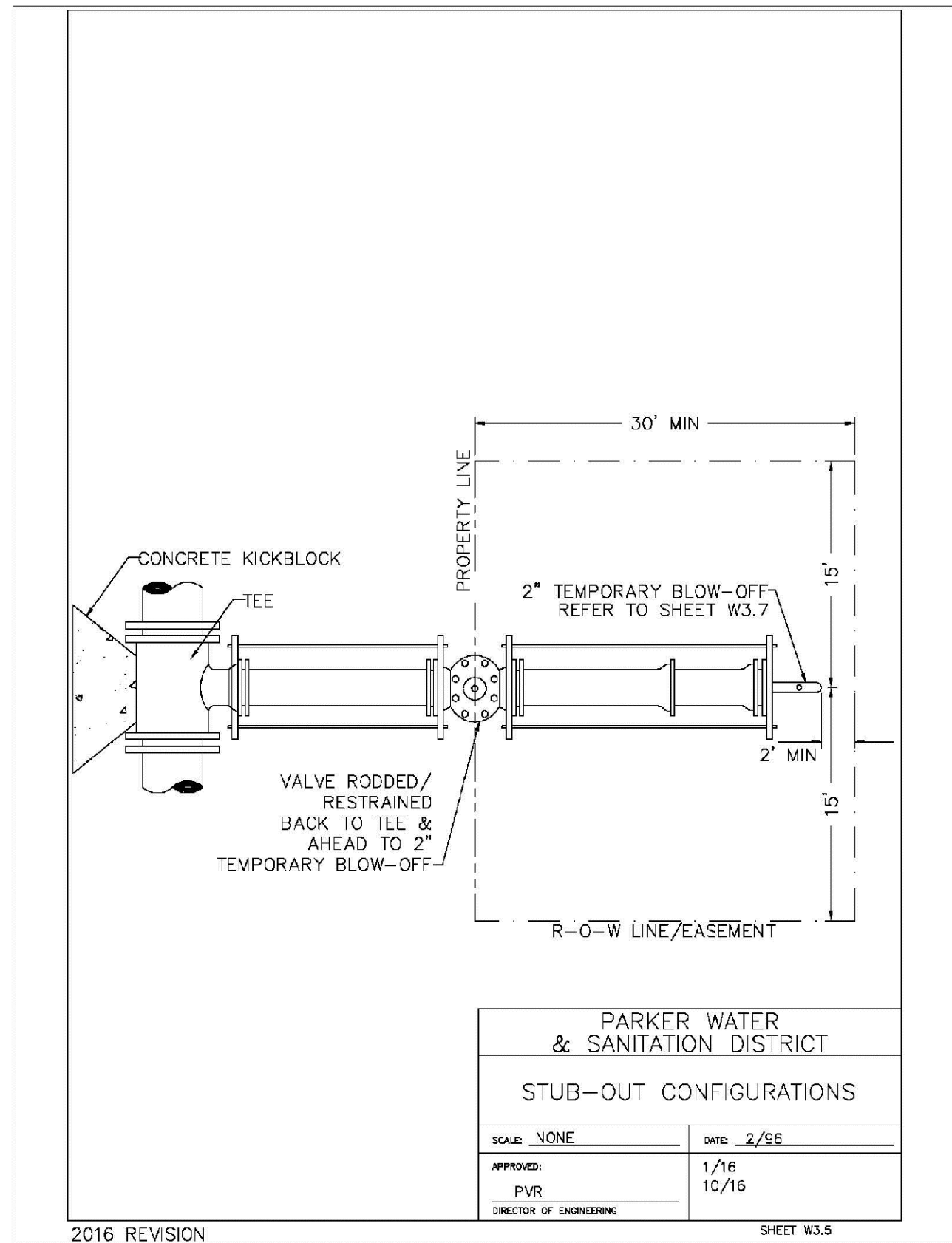
1. FOR USE ON ALL DUCTILE IRON AND PVC WATER MAIN
2. LOCATOR STATION POSITION MAY BE MODIFIED AT THE DIRECTION OF THE DISTRICT ENGINEER.
3. A CONTINUITY TEST WILL BE REQUIRED PRIOR TO PROBATIONARY ACCEPTANCE.

|                                       |                                 |
|---------------------------------------|---------------------------------|
| PARKER WATER<br>& SANITATION DISTRICT |                                 |
| LOCATOR WIRE DETAILS                  |                                 |
| SCALE: NONE                           | DATE: 2/98                      |
| APPROVED:                             | 4/01<br>01/02<br>01/16<br>10/16 |
| PVR                                   |                                 |
| DIRECTOR OF ENGINEERING               |                                 |

SHEET W2.6



N:\PROJECTS\SSR\SSR\ENGINEERING\SSR\SET\MULTIFAMILY\CD\SET\00\PARKER WATER AND SANITATION\WATER DETAILS.DWG, BRIAN W. 6/4/2021 12:52 PM



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