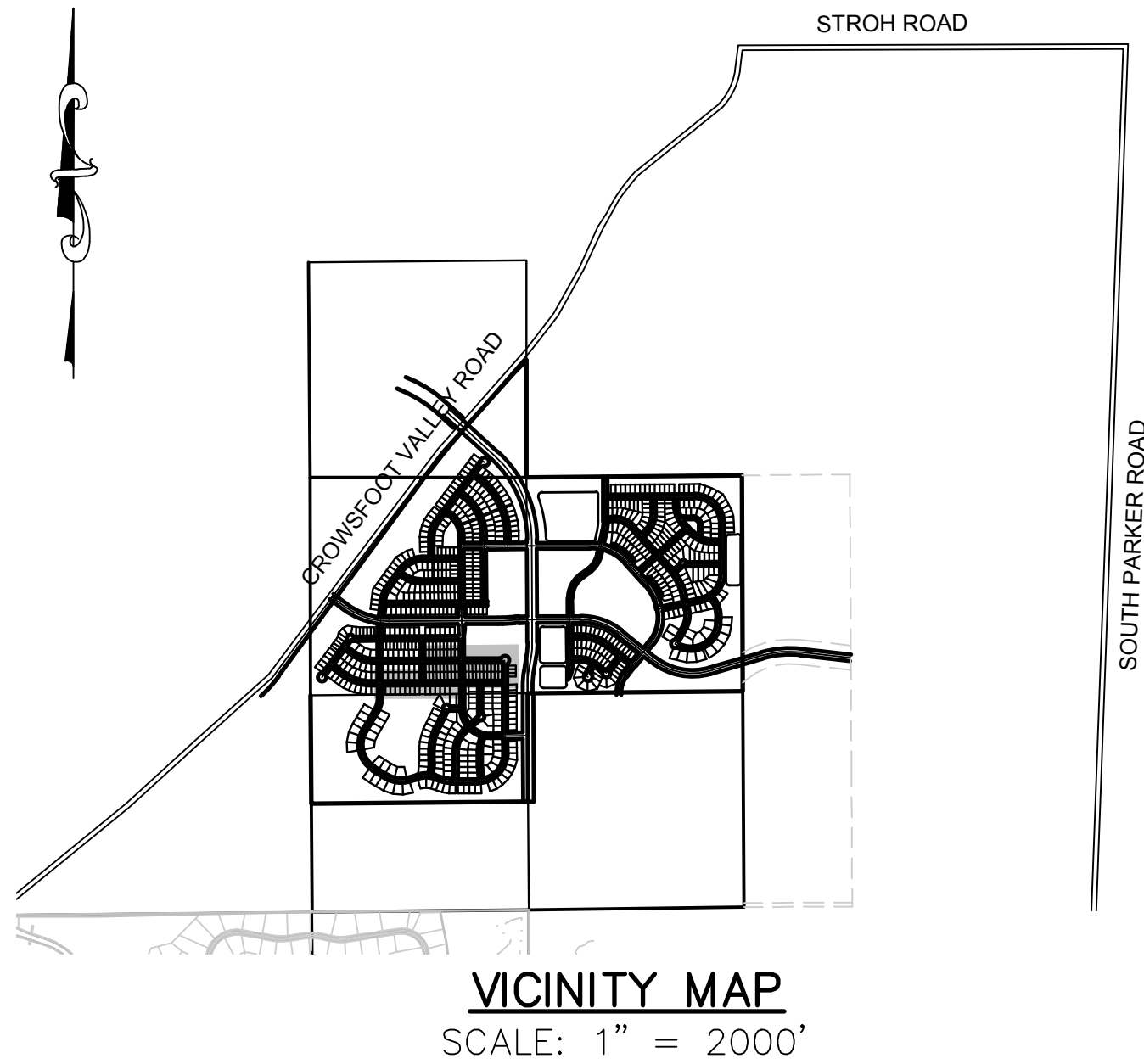


| Sheet Number | Sheet Title                                 |
|--------------|---------------------------------------------|
| 1            | COVER SHEET                                 |
| 2            | PARKER WATER AND SANITATION NOTES           |
| 3            | AREA UTILITY PLAN                           |
| 4            | SANITARY P&P BIRDS FOOT AVENUE              |
| 5            | SANITARY P&P BIRDSFOOT AVE & HOP CLOVER TRL |
| 6            | SANITARY P&P HOP CLOVER AVENUE              |
| 7            | SANITARY P&P HOP CLOVER AVENUE              |
| 8            | WATER P&P BIRDS FOOT AVENUE                 |
| 9            | WATER P&P HOP CLOVER TRAIL                  |
| 10           | WATER P&P HOP CLOVER AVENUE                 |
| 11           | WATER P&P HOP CLOVER AVENUE                 |
| 12           | SANITARY SEWER DETAILS                      |
| 13           | SANITARY SEWER DETAILS                      |
| 14           | SANITARY SEWER DETAILS                      |
| 15           | WATER DETAILS                               |
| 16           | WATER DETAILS                               |
| 17           | WATER DETAILS                               |
| 18           | WATER DETAILS                               |
| 19           | WATER DETAILS                               |
| 20           | WATER DETAILS                               |



| MATERIALS LIST                               |          |      |
|----------------------------------------------|----------|------|
| DESCRIPTION                                  | QUANTITY | UNIT |
| 6" WATERPIPE (DIP)                           | 124      | L.F. |
| 8" WATERPIPE (PVC)                           | 2,671    | L.F. |
| 6" GATE VALVE                                | 5        | EA.  |
| 8" GATE VALVE                                | 10       | EA.  |
| 8" MISC. FITTINGS                            | 8        | EA.  |
| 8" CAP WITH BLOW OFF VALVE                   | 5        | EA.  |
| FIRE HYDRANT WITH 6" LEAD                    | 5        | EA.  |
| WATER SERVICE LATERAL W/ WATER METER AND PIT | 76       | EA.  |
| CONNECTION TO EXISTING MAIN                  | 7        | EA.  |
| 8" SEWER (SDR-35 PVC)                        | 2,510    | L.F. |
| 4' DIA. MANHOLE                              | 10       | EA.  |
| SEWER SERVICE LATERAL W/ WYE TAP             | 76       | EA.  |
| CONNECTION TO EXISTING MAIN                  | 6        | EA.  |

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.

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 SCHEDULELINE INSPECTIONS. ANY WORK ACCOMPLISHED WITHOUT THE APPROVAL OF THE INSPECTOR WILL BE SUBJECT TO REJECTION.

# 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 CONSULTANTS  
OF COLORADO, INC.**  
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

**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

N:\PROJECTS\HESS RANCH\CAD\ENGINEERING\SHEET SETS\CD\S\F5\PARKER WATER AND SANITATION\F5 COVER.DWG, BRIANW, 12/18/2017 3:34 PM



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

|                              |             |             |                                                                     |                                                            |                                                                                     |                                                                                                          |            |      |       |       |      |
|------------------------------|-------------|-------------|---------------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------|------|-------|-------|------|
| SHEET NUMBER<br><br><b>1</b> | DRAWN BY:   | KJD         | TRAILS AT CROWFOOT<br>FILING 5 CONSTRUCTION DRAWINGS<br>COVER SHEET | 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) 482-9526<br>Fax: (720) 482-9546 |            |      |       |       |      |
|                              | CHECKED BY: | JUJ         |                                                                     |                                                            |                                                                                     |                                                                                                          |            |      |       |       |      |
|                              | SCALE:      | AS SHOWN    |                                                                     |                                                            |                                                                                     |                                                                                                          |            |      |       |       |      |
|                              | FILE NO:    |             |                                                                     |                                                            |                                                                                     |                                                                                                          |            |      |       |       |      |
|                              | DATE:       | AUGUST 2017 |                                                                     |                                                            |                                                                                     |                                                                                                          | 8130283701 |      |       |       |      |
|                              |             |             |                                                                     |                                                            |                                                                                     | No.                                                                                                      | Revisions  | Date | Init. | Appr. | Date |

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UNCC  
UTILITY NOTIFICATION  
CENTER OF COLORADO

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

GENERAL NOTES:

- ALL CONSTRUCTION SHALL COMPLY WITH PARKER WATER AND SANITATION DISTRICT SPECIFICATIONS.
- THE CONTRACTOR SHALL CONTACT ALL APPROPRIATE UTILITY COMPANIES AND THE TOWN OF PARKER 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 CONTRACTOR DISCOVERS A DISCREPANCY IN LOCATIONS, HE SHALL CONTACT THE ENGINEER IMMEDIATELY.
- THE DISTRICT ENGINEER AND OTHER APPROVING AGENCIES ARE TO BE NOTIFIED AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL OBTAIN, AT HIS EXPENSE, ALL PERMITS THAT ARE 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 ROLLED "AS-BUILT" BLUELINE PRINTS AND ELECTRONIC FILES TO THE DISTRICT ENGINEER FOR APPROVAL PRIOR TO PRINTING MYLAR SEPIAS FOR THE DISTRICT. AFTER APPROVAL HAS BEEN GRANTED BY THE DISTRICT ENGINEER, FULL SIZE MYLAR SEPIA PRINTS SHALL BE TRANSMITTED TO THE PARKER WATER AND SANITATION DISTRICT OFFICE.
- 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 SEWER) 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.
- 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 SERVICES WILL BE PERMANENTLY MARKED ON CURB FACE AS FOLLOWS: "X" FOR SANITARY SERVICE SEWERS "V" FOR WATER SERVICES
- NO TREES SHALL BE ALLOWED IN EASEMENTS OR WITHIN 8' OF ANY 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 PARKER WATER AND SANITATION DISTRICT AND THE DISTRICT ENGINEER AND ONE (1) COPY OF THE LATEST PARKER WATER AND SANITATION DISTRICT SPECIFICATION MANUAL.

WATER MAIN NOTES:

- ALL MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE PARKER WATER AND SANITATION DISTRICT ENGINEERING STANDARDS AND SPECIFICATIONS, LATEST REVISIONS. ALL WORK SHALL BE INSPECTED AND APPROVED BY PERSONNEL OF THE PARKER WATER SANITATION DISTRICT AND THE DISTRICT ENGINEER.
- ALL WATER MAINS SHALL BE PER PWSO MATERIALS SPECIFICATIONS.
- ALL BENDS, PLUGS, REDUCERS, AND FIRE HYDRANTS TO BE RODDED OR MEGA-LUGGED. ALL FITTINGS SHALL BE WRAPPED WITH 8-MIL MINIMUM THICKNESS POLYETHYLENE MATERIAL 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 SHALL INCLUDE ALL PIPE, FITTINGS, VALVES, MATERIALS, AND LABOR WHICH ARE NECESSARY TO INSTALL THE HYDRANT COMPLETE IN PLACE. SEE MATERIALS SPECIFICATIONS FOR APPROVED MODELS
- ALL BENDS, TEES, FIRE HYDRANTS, BLOW-OFFS AND PLUGS AT DEAD END MAINS SHALL BE PROTECTED FROM THRUST BY USING 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. THE MORE CLOSELY THE RATE OF DELIVERY IS CORRELATED TO THE RATE OF PIPE LAYING, THE LOWER THE RISK OF CONTAMINATION.
- CHLORINATION AND FLUSHING: ALL WATER MAINS SHALL BE INSTALLED AND CHLORINATED PER PARKER WATER AND SANITATION STANDARDS AND SPECIFICATIONS. THE LINES SHALL BE CHLORINATED IN ACCORDANCE WITH ANSI/AWWA C-651-92., "DISINFECTING WATER MAINS." PARKER WATER AND SANITATION DISTRICT REQUIRES THE INITIAL DOSAGE RATE OF DISINFECTION BE AT LEAST 50 MG PER LITER. CHLORINE TABLETS SHOULD BE ADHERED TO THE TOP OF THE PIPE SECTION WITH PERMATRX NO.1 (RED). THE CHLORINATION OF ANY FINISHED PIPELINE SHALL BE DONE PRIOR TO THE HYDROSTATIC TESTING.
- HYDROSTATIC TESTING: ALL WATER MAINS SHALL BE TESTED PER THE REQUIREMENTS OF THE PARKER WATER AND SANITATION DISTRICT STANDARDS AND SPECIFICATIONS. ALL PIPE SHALL BE FIELD PRESSURE TESTED TO A MINIMUM OF 150 PSI. ALL TESTING SHALL BE DONE IN THE PRESENCE OF A PARKER WATER AND SANITATION DISTRICT INSPECTOR. LEAKAGE FOR EACH SECTION OF PIPE BETWEEN LINES VALVES SHALL NOT EXCEED THE LIMITS SET FORTH IN THE PARKER WATER AND SANITATION DISTRICT STANDARDS AND SPECIFICATIONS.
- VALVES IN STREETS ARE TO BE LOCATED AT PROPERTY LINE EXTENSIONS EXCEPT FOR TAPPING TEES WHERE AN ADDITIONAL VALVES SHALL BE PLACED ON THE TAPPING TEE. OTHER VALVE LOCATIONS, SUCH AS WHERE CROSS PANS EXIST, ARE SHOWN ON THE PLANS.
- WHEN NECESSARY TO LOWER OR RAISE WATER LINES AT STORM DRAINS AND OTHER UTILITY CROSSING, A MINIMUM CLEARANCE OF 1.50 FEET SHALL BE MAINTAINED BETWEEN OUTSIDE OF PIPES.
- THE CONTRACTOR SHALL NOTIFY THE PARKER WATER AND SANITATION DISTRICT AND THE DISTRICT ENGINEER 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 PARKER WATER AND SANITATION DISTRICT STANDARDS AND SPECIFICATIONS, LATEST REVISION.
- THE CONTRACTOR SHALL NOTIFY THE PUBLIC UTILITY COMPANIES AND DETERMINED 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.
- VALVE BOXES: TYLER SCREW-TYPE 6 INCHES CAST IRON VALVE BOX ASSEMBLY SERIES 6860 WITH NO. 160 OVAL BASE. CLAY AND BAILEY SCREW-TYPE 6 INCH CAST IRON VALVE BOX ASSEMBLY NO. P-108 WITH NO. 106 LARGE OVAL BASE.
- ALL PIPE LENGTHS ARE APPROXIMATE.
- 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 REPRESENTATIVE OF OTHER APPROVING AGENCIES. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE DISTRICT ENGINEER.

SANITARY SEWER NOTES:

- ALL SANITARY SEWER CONSTRUCTION SHALL CONFORM TO THE PARKER WATER AND SANITATION DISTRICT SPECIFICATION.
- 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 PARKER WATER AND SANITATION DISTRICT STANDARD AND 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.
- 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.
- ALL PIPE LENGTHS ARE APPROXIMATE.
- THE CONTRACTOR SHALL HAVE IN HIS POSSESSION AT ALL TIMES ONE (1) SIGNED COPY OF THE PLANS WHICH HAVE BEEN APPROVED BY THE PARKER WATER AND SANITATION DISTRICT AND THE DISTRICT ENGINEER AND ONE (1) COPY OF THE LATEST PARKER WATER AND SANITATION DISTRICT SPECIFICATION MANUAL.
- ALL MANHOLES SHALL HAVE SHAPED INVERTS.
- ALL SEWER LINES SHALL BE TESTED IN ACCORDANCE WITH THE PARKER WATER AND SANITATION DISTRICT STANDARDS AND SPECIFICATIONS PRIOR TO ACCEPTANCE OR ANY CONNECTION TO AN EXISTING SEWER LINE.
- PRIOR TO START WORK WHERE SEWER MAIN TO BE INSTALLED INTO EXISTING DISTRICT 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 ACCEPTANCE BY THE DISTRICT. ITS PURPOSE SHALL BE TO PREVENT ANY MUD, WATER OR OTHER MATERIALS FROM ENTERING THE LINE DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PUMPING AND CLEANING THESE MANHOLES AND REMOVING THE PLUG WHEN SO INSTRUCTED BY THE DISTRICT.
- PRIOR TO PROBATIONARY ACCEPTANCE WALK-THROUGH, THE CLIENT SHALL JET CLEAN THE ENTIRE SANITARY SEWER SYSTEM AND PUMP OUT AT THE PLUGGED MANHOLE.

DISTRICT ACCEPTANCE NOTES:

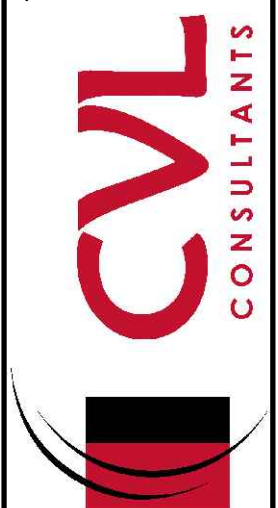
- UPON COMPLETION OF SANITARY SEWER AND WATER CONSTRUCTION AND TESTING, THE DEVELOPER OR CONTRACTOR SHALL CONTACT THE DISTRICT FOR PROBATIONARY ACCEPTANCE INSPECTION. A PUNCHLIST WILL BE PROVIDED THE DEVELOPER AND CONTRACTOR UPON COMPLETION OF THE INITIAL WALK-THRU AND PROBATIONARY ACCEPTANCE WILL BE 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.

**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

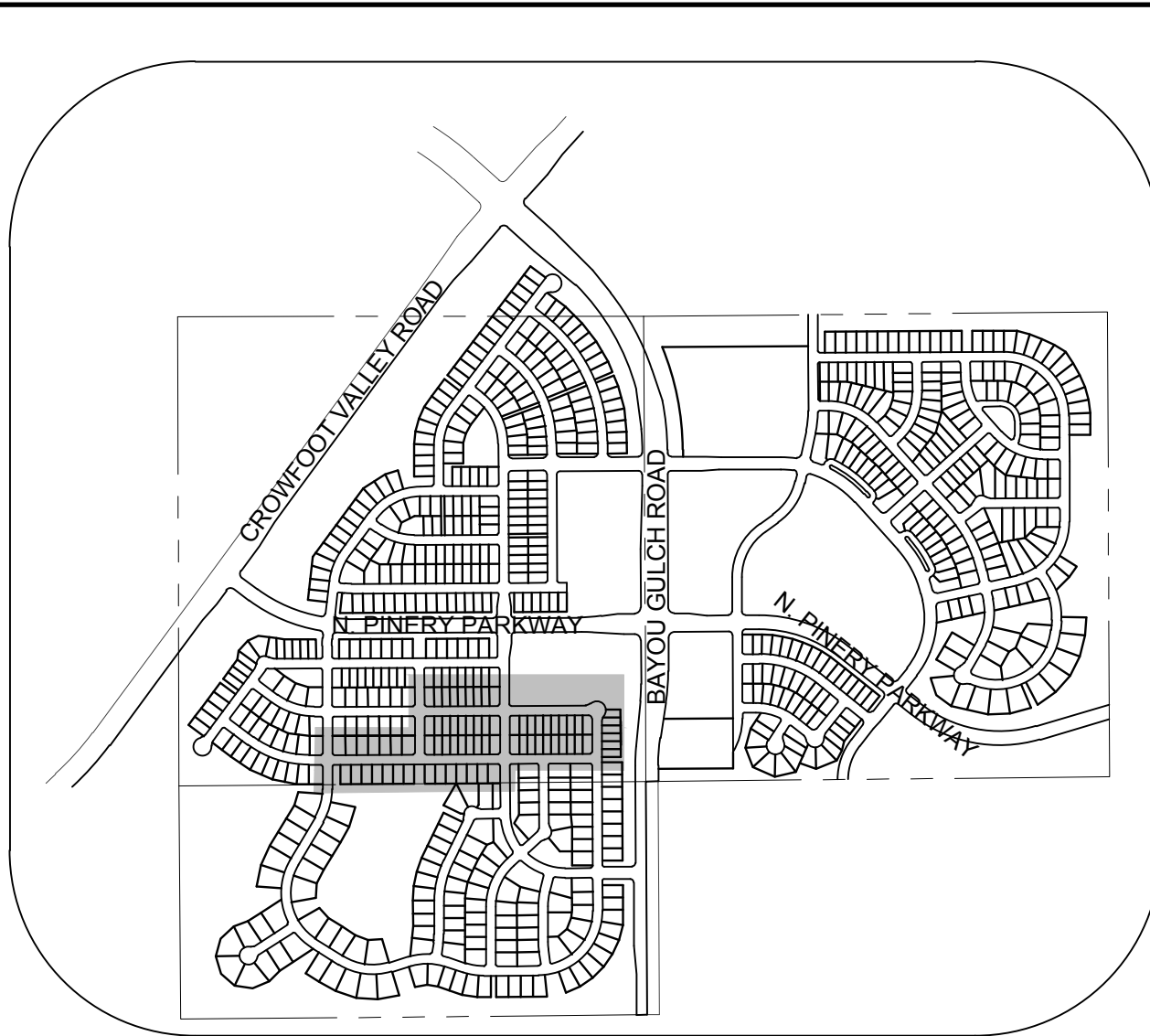
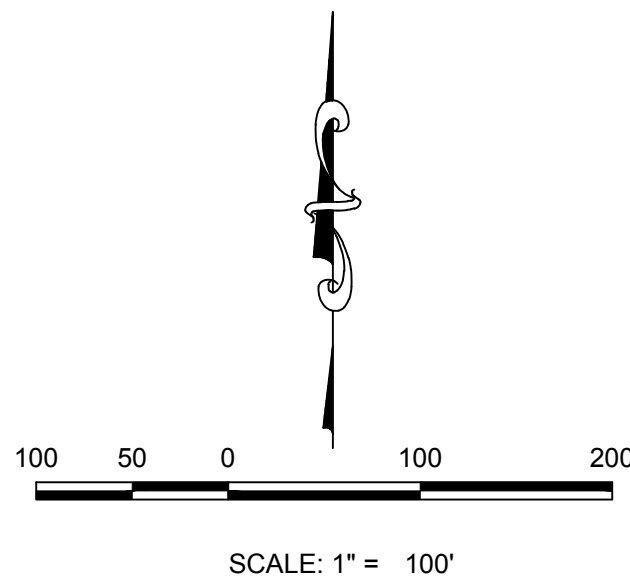
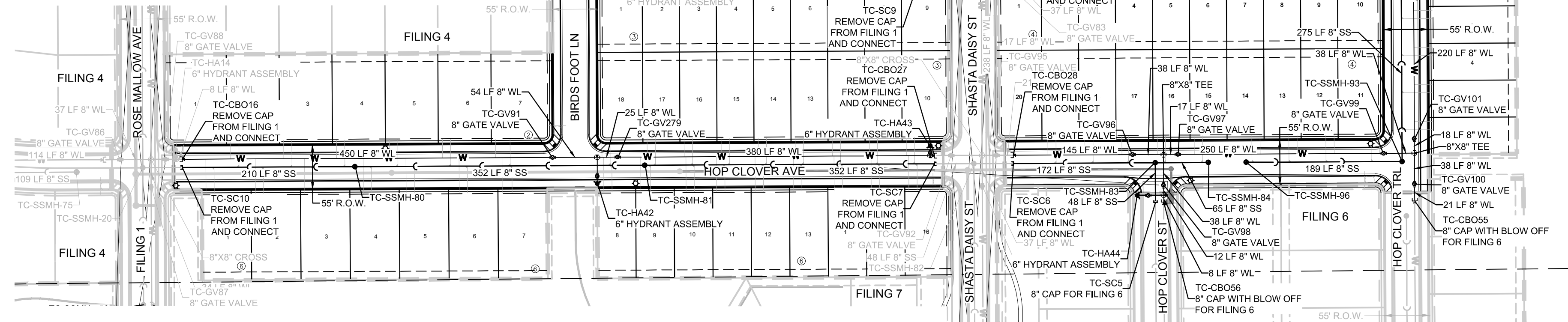
BRIAN P. WILSON  
COLORADO P.E. 0050067

|              |               |                 |                   |                 |                     |                                                                                           |                                                            |                                                                                                                                                                                             |     |           |      |       |       |      |
|--------------|---------------|-----------------|-------------------|-----------------|---------------------|-------------------------------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|------|-------|-------|------|
| SHEET NUMBER | DRAWN BY: KJD | CHECKED BY: JJJ | DATE: AUGUST 2017 | SCALE: AS SHOWN | FILE NO: 8130283701 | TRAILS AT CROWFOOT<br>FILING 5 CONSTRUCTION DRAWINGS<br>PARKER WATER AND SANITATION NOTES | HR 935 LLC<br>7353 South Alton Way<br>CENTENNIAL, CO 80112 |  <div>10339 E. Dry Creek Rd.<br/>Denver, CO 80110<br/>Tel: (720) 482-9526<br/>Fax: (720) 482-9546</div> | No. | Revisions | Date | Init. | Appr. | Date |
|              |               |                 |                   |                 |                     |                                                                                           |                                                            |                                                                                                                                                                                             |     |           |      |       |       |      |
|              |               |                 |                   |                 |                     |                                                                                           |                                                            |                                                                                                                                                                                             |     |           |      |       |       |      |
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| SERVICE TABLE      |                |                     |                  |
|--------------------|----------------|---------------------|------------------|
| FILING, BLOCK, LOT | STREET         | SANITARY STATIONING | WATER STATIONING |
| F5,B1,L1           | BIRDS FOOT AVE | 20+62.94            | 20+52.94         |
| F5,B1,L2           | BIRDS FOOT AVE | 21+07.63            | 20+97.63         |
| F5,B1,L3           | BIRDS FOOT AVE | 21+52.63            | 21+42.63         |
| F5,B1,L4           | BIRDS FOOT AVE | 21+97.63            | 21+87.63         |
| F5,B1,L5           | BIRDS FOOT AVE | 22+42.63            | 22+32.63         |
| F5,B1,L6           | BIRDS FOOT AVE | 22+87.63            | 22+77.63         |
| F5,B1,L7           | BIRDS FOOT AVE | 23+32.63            | 23+22.63         |
| F5,B1,L8           | BIRDS FOOT AVE | 23+77.63            | 23+67.63         |
| F5,B1,L9           | BIRDS FOOT AVE | 24+22.63            | 24+12.63         |
| F5,B2,L1           | HOP CLOVER AVE | 17+09.30            | 16+99.30         |
| F5,B2,L2           | HOP CLOVER AVE | 17+78.65            | 17+68.65         |
| F5,B2,L3           | HOP CLOVER AVE | 18+43.00            | 18+33.00         |
| F5,B2,L4           | HOP CLOVER AVE | 19+07.35            | 18+97.35         |
| F5,B2,L5           | HOP CLOVER AVE | 19+71.70            | 19+61.70         |
| F5,B2,L6           | HOP CLOVER AVE | 20+36.05            | 20+26.05         |
| F5,B2,L7           | HOP CLOVER AVE | 21+08.30            | 20+90.40         |
| F5,B3,L1           | BIRDS FOOT AVE | 20+64.94            | 20+54.94         |
| F5,B3,L2           | BIRDS FOOT AVE | 21+05.63            | 20+95.63         |
| F5,B3,L3           | BIRDS FOOT AVE | 21+50.63            | 21+40.63         |
| F5,B3,L4           | BIRDS FOOT AVE | 21+95.63            | 21+85.63         |
| F5,B3,L5           | BIRDS FOOT AVE | 22+40.63            | 22+30.63         |
| F5,B3,L6           | BIRDS FOOT AVE | 22+95.63            | 22+85.63         |
| F5,B3,L7           | BIRDS FOOT AVE | 23+30.63            | 23+20.63         |
| F5,B3,L8           | BIRDS FOOT AVE | 23+75.63            | 23+65.63         |
| F5,B3,L9           | BIRDS FOOT AVE | 24+20.63            | 24+10.63         |
| F5,B3,L10          | HOP CLOVER AVE | 25+99.80            | 25+89.80         |
| F5,B3,L11          | HOP CLOVER AVE | 25+54.80            | 25+44.80         |
| F5,B3,L12          | HOP CLOVER AVE | 25+09.80            | 24+99.80         |
| F5,B3,L13          | HOP CLOVER AVE | 24+64.80            | 24+54.80         |
| F5,B3,L14          | HOP CLOVER AVE | 24+19.80            | 24+09.80         |
| F5,B3,L15          | HOP CLOVER AVE | 23+74.80            | 23+64.80         |
| F5,B3,L16          | HOP CLOVER AVE | 23+29.80            | 23+19.80         |
| F5,B3,L17          | HOP CLOVER AVE | 22+84.80            | 22+74.80         |
| F5,B3,L18          | HOP CLOVER AVE | 22+29.80            | 22+19.80         |
| F5,B4,L1           | BIRDS FOOT AVE | 25+40.24            | 25+30.24         |
| F5,B4,L2           | BIRDS FOOT AVE | 25+90.60            | 25+80.60         |
| F5,B4,L3           | BIRDS FOOT AVE | 26+35.60            | 26+25.60         |
| F5,B4,L4           | BIRDS FOOT AVE | 26+80.60            | 26+70.60         |
| F5,B4,L5           | BIRDS FOOT AVE | 27+25.60            | 27+15.60         |
| F5,B4,L6           | BIRDS FOOT AVE | 27+70.60            | 27+60.60         |
| F5,B4,L7           | BIRDS FOOT AVE | 28+15.60            | 28+05.60         |
| F5,B4,L8           | BIRDS FOOT AVE | 28+60.60            | 28+50.60         |
| F5,B4,L9           | BIRDS FOOT AVE | 29+05.60            | 28+95.60         |
| F5,B4,L10          | BIRDS FOOT AVE | 29+50.60            | 29+40.60         |
| F5,B4,L11          | HOP CLOVER AVE | 31+54.77            | 31+64.77         |
| F5,B4,L12          | HOP CLOVER AVE | 31+00.00            | 31+09.77         |
| F5,B4,L13          | HOP CLOVER AVE | 30+54.77            | 30+64.77         |
| F5,B4,L14          | HOP CLOVER AVE | 30+09.77            | 30+19.77         |
| F5,B4,L15          | HOP CLOVER AVE | 29+49.77            | 29+39.77         |
| F5,B4,L16          | HOP CLOVER AVE | 29+04.77            | 28+94.77         |
| F5,B4,L17          | HOP CLOVER AVE | 28+59.77            | 28+51.77         |
| F5,B4,L18          | HOP CLOVER AVE | 28+16.77            | 28+06.77         |
| F5,B4,L19          | HOP CLOVER AVE | 27+71.77            | 27+61.77         |
| F5,B4,L20          | HOP CLOVER AVE | 27+19.40            | 27+09.40         |

| SERVICE TABLE      |                |                     |                  |
|--------------------|----------------|---------------------|------------------|
| FILING, BLOCK, LOT | STREET         | SANITARY STATIONING | WATER STATIONING |
| F5,B5,L1           | HOP CLOVER TRL | 13+13.21            | 13+03.21         |
| F5,B5,L2           | HOP CLOVER TRL | 13+58.21            | 13+48.21         |
| F5,B5,L3           | HOP CLOVER TRL | 14+03.21            | 13+93.21         |
| F5,B5,L4           | HOP CLOVER TRL | 14+48.21            | 14+38.21         |
| F5,B5,L5           | HOP CLOVER TRL | 14+93.21            | 14+83.21         |
| F5,B5,L6           | HOP CLOVER TRL | 15+38.21            | 15+28.21         |
| F5,B6,L1           | HOP CLOVER AVE | 17+48.30            | 17+38.30         |
| F5,B6,L2           | HOP CLOVER AVE | 18+08.30            | 17+98.30         |
| F5,B6,L3           | HOP CLOVER AVE | 18+68.30            | 18+58.30         |
| F5,B6,L4           | HOP CLOVER AVE | 19+39.55            | 19+29.55         |
| F5,B6,L5           | HOP CLOVER AVE | 19+91.70            | 19+81.70         |
| F5,B6,L6           | HOP CLOVER AVE | 20+56.05            | 20+46.05         |
| F5,B6,L7           | HOP CLOVER AVE | 21+10.30            | 20+98.30         |
| F5,B6,L8           | HOP CLOVER AVE | 22+31.80            | 22+21.80         |
| F5,B6,L9           | HOP CLOVER AVE | 22+73.90            | 22+61.90         |
| F5,B6,L10          | HOP CLOVER AVE | 23+31.80            | 23+21.80         |
| F5,B6,L11          | HOP CLOVER AVE | 23+69.14            | 23+59.14         |
| F5,B6,L12          | HOP CLOVER AVE | 24+15.85            | 24+05.85         |
| F5,B6,L13          | HOP CLOVER AVE | 24+62.56            | 24+52.56         |
| F5,B6,L14          | HOP CLOVER AVE | 25+11.80            | 25+01.80         |
| F5,B6,L15          | HOP CLOVER TRL | 15+76.85            | 15+66.85         |
| F5,B6,L16          | HOP CLOVER TRL | 15+76.85            | 15+66.85         |



## 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                 | ---  | 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 LIGHT POLE              |
| Ⓢ     | PROPOSED SIDEWALK                     | ---  | 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            | ---  | EXISTING FIBER OPTIC LINE        |
| Ⓢ     | PROPOSED STORM DRAIN MANHOLE          | ---  | EXISTING OVERHEAD POWER          |
| Ⓢ     |                                       | ---  | EXISTING TELEPHONE LINE          |

## 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                    |
| FL  | FLOW LINE              | SS     | SANITARY SEWER                  |
| GV  | GATE VALVE             | STA    | STATION                         |
| HA  | HYDRANT ASSEMBLY       | 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.)

## 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

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 SCHEDULED 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)



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

UTILITY NOTIFICATION  
CENTER OF COLORADO

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

|                                                                                                          |                                                                                     |                                                            |                                                                           |              |             |             |            |
|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------------|--------------|-------------|-------------|------------|
| 10333 E. Dry Creek Rd.<br>Suite 240<br>Englewood, CO 80112<br>Tel: (720) 482-9526<br>Fax: (720) 482-9546 |  | HR 935 LLC<br>7353 South Alton Way<br>CENTENNIAL, CO 80112 | TRAILS AT CROWFOOT<br>FILING 5 CONSTRUCTION DRAWINGS<br>AREA UTILITY PLAN | SCALE:       | AS SHOWN    | FILE NO:    | 8130283701 |
|                                                                                                          |                                                                                     |                                                            |                                                                           | DRAWN BY:    | JLR         | CHECKED BY: | JLU        |
|                                                                                                          |                                                                                     |                                                            |                                                                           | DATE:        | AUGUST 2017 |             |            |
|                                                                                                          |                                                                                     |                                                            |                                                                           | SHEET NUMBER |             |             |            |
|                                                                                                          |                                                                                     |                                                            |                                                                           | 3            |             |             |            |

N:\PROJECTS\SSR\BANCROFT\ENGINEERING\SSR\BANCROFT\BIRDS FOOT AVE SANITARY DWG. BRIANN, 12/15/2017 2:40 PM



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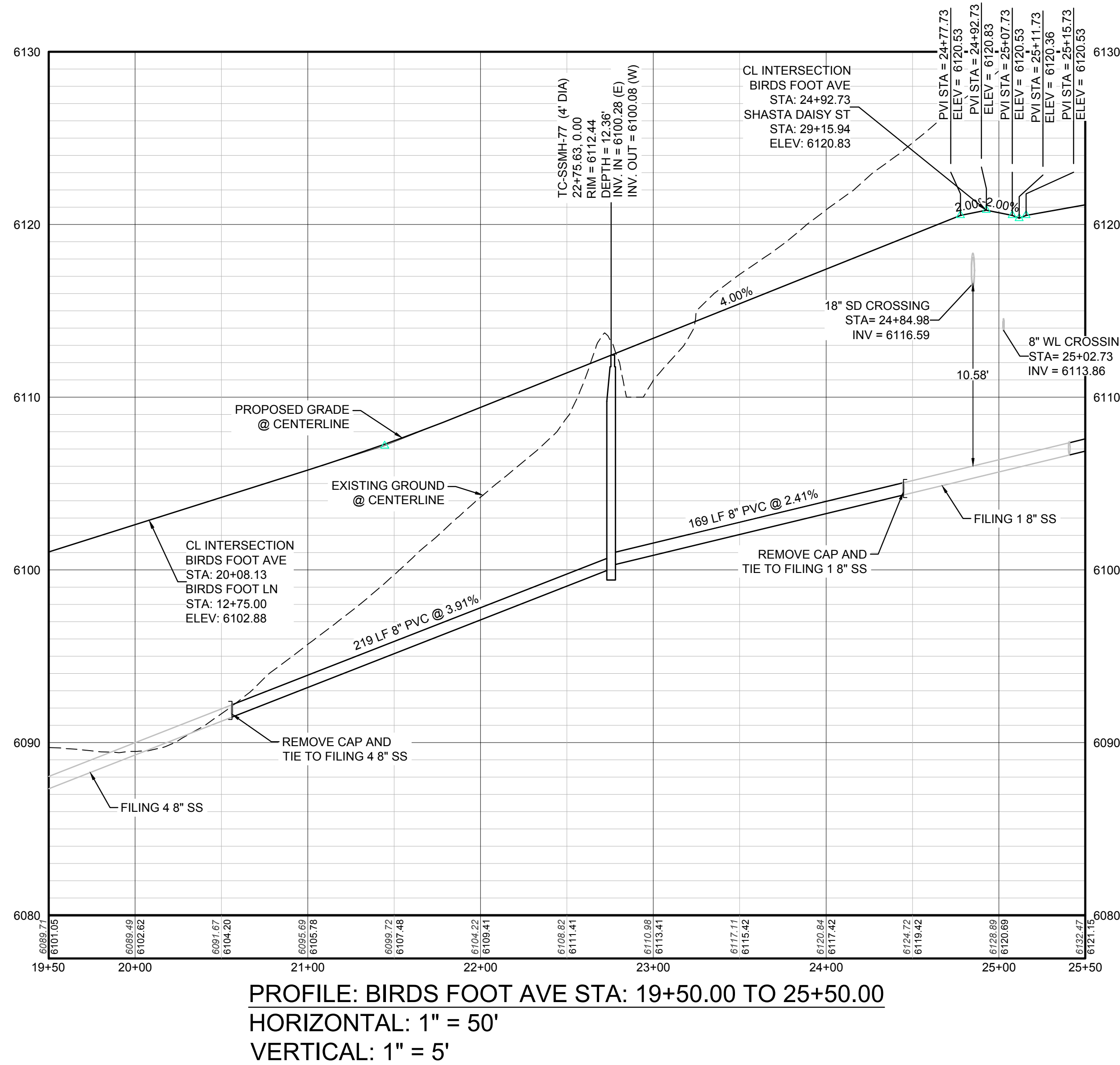
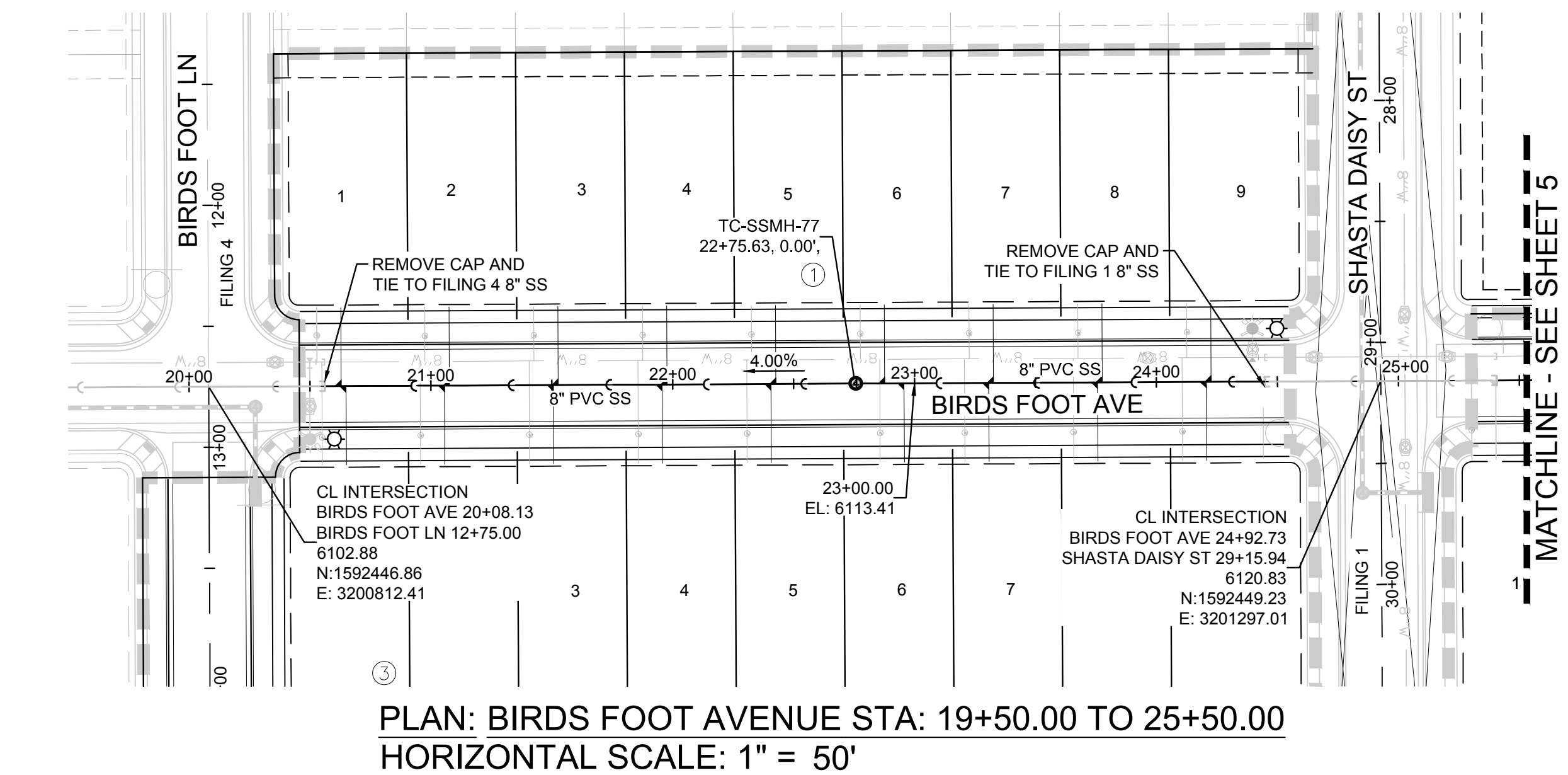
LITUTY NOTIFICATION  
CENTER OF COLORADO

CALL 811

TWO WORKING DAYS

BEFORE YOU DIG

1-800-922-1987



| SANITARY SERVICE TABLE |                |            |
|------------------------|----------------|------------|
| FILING, BLOCK, LOT     | STREET         | STATIONING |
| F5,B1,L1               | BIRDS FOOT AVE | 20+62.94   |
| F5,B1,L2               | BIRDS FOOT AVE | 21+07.63   |
| F5,B1,L3               | BIRDS FOOT AVE | 21+52.63   |
| F5,B1,L4               | BIRDS FOOT AVE | 21+97.63   |
| F5,B1,L5               | BIRDS FOOT AVE | 22+42.63   |
| F5,B1,L6               | BIRDS FOOT AVE | 22+87.63   |
| F5,B1,L7               | BIRDS FOOT AVE | 23+32.63   |
| F5,B1,L8               | BIRDS FOOT AVE | 23+77.63   |
| F5,B1,L9               | BIRDS FOOT AVE | 24+22.63   |
| F5,B3,L1               | BIRDS FOOT AVE | 20+64.94   |
| F5,B3,L2               | BIRDS FOOT AVE | 21+05.63   |
| F5,B3,L3               | BIRDS FOOT AVE | 21+50.63   |
| F5,B3,L4               | BIRDS FOOT AVE | 21+95.63   |
| F5,B3,L5               | BIRDS FOOT AVE | 22+40.63   |
| F5,B3,L6               | BIRDS FOOT AVE | 22+95.63   |
| F5,B3,L7               | BIRDS FOOT AVE | 23+30.63   |
| F5,B3,L8               | BIRDS FOOT AVE | 23+75.63   |
| F5,B3,L9               | BIRDS FOOT AVE | 24+20.63   |

2

BLOCK NUMBER

6

LOT TYPE

6

LOT NUMBER

⊗

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 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

---

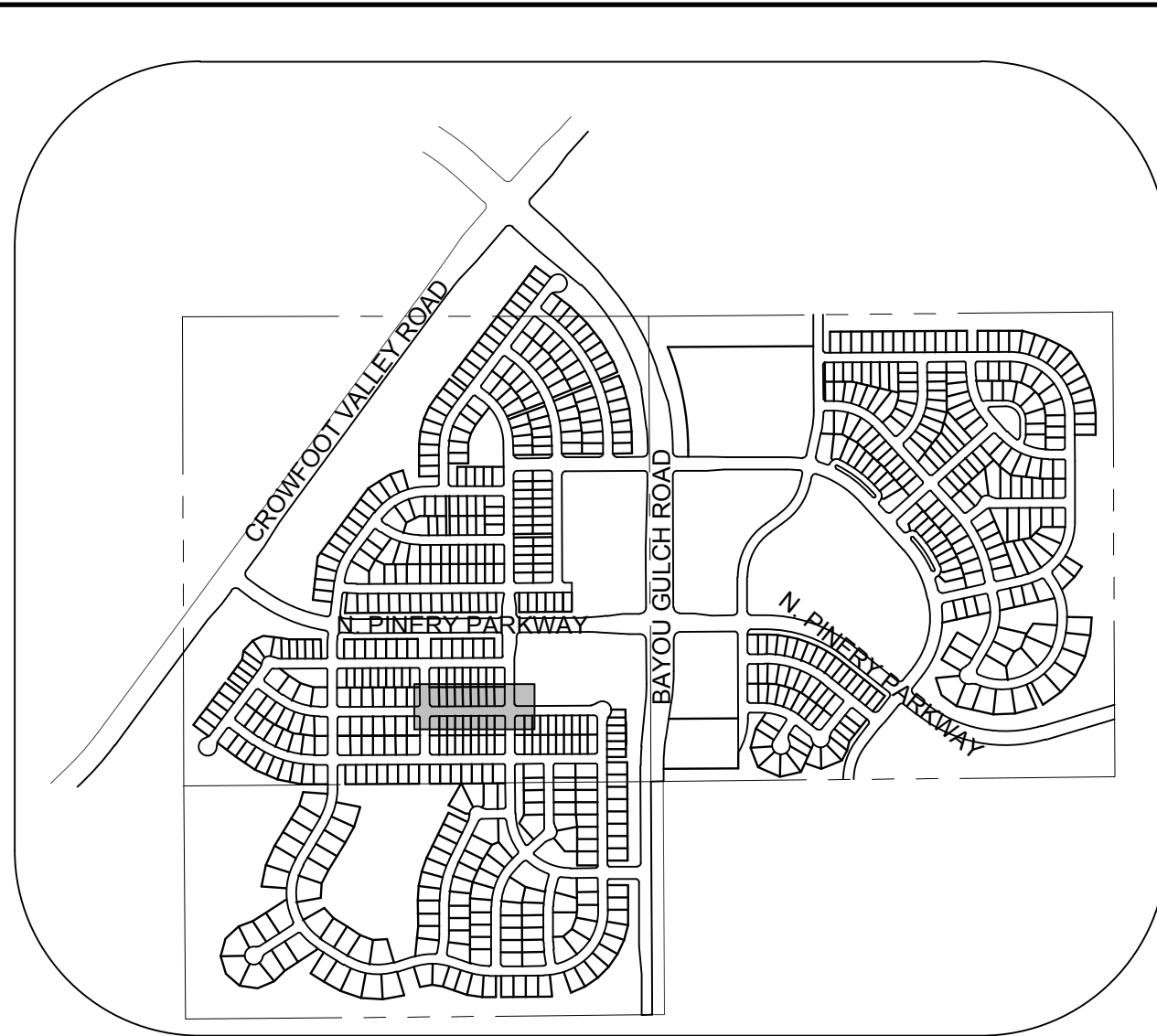
EXISTING TELEPHONE LINE

| 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       |
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| 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                    |
| FL            | FLOW LINE              | SS     | SANITARY SEWER                  |
| GV            | GATE VALVE             | STA    | STATION                         |
| HA            | HYDRANT ASSEMBLY       | 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         |

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

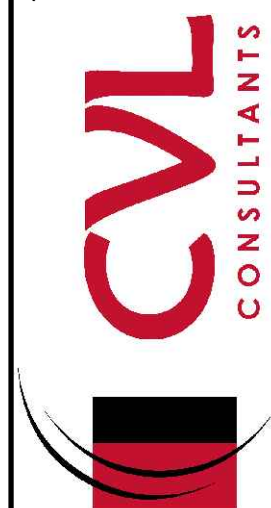
BENCHMARK  
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KEYMAP  
N.T.S.  
LEGEND

10333 E. Dry Creek Rd.  
Denver, CO 80149  
Englewood, CO 80110  
Tel: (720) 482-9526  
Fax: (720) 482-9546



HR 935 LLC  
7353 South Alton Way  
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT  
FILING 5 CONSTRUCTION DRAWINGS  
SANITARY SEWER PLAN AND PROFILE  
BIRDS FOOT AVENUE

SCALE: AS SHOWN  
FILE NO: 8130283701

DRAWN BY: KJD  
CHECKED BY: JJJ  
DATE: AUGUST 2017

SHEET NUMBER 4

Revisions  
No. Date Init. Appr. Date

**MATCHLINE - SEE SHEET 4**

**BIRDS FOOT AVE**

**HOP CLOVER TRL**

**HOP CLOVER AVE**

**CL INTERSECTION**  
 BIRDS FOOT AVE 24+92.73  
 SHASTA DAISY ST 29+15.94  
 6120.83  
 N: 1592449.23  
 E: 3201297.01

**CL INTERSECTION**  
 HOP CLOVER TRL 15+76.83  
 HOP CLOVER AVE 31+97.26  
 6130.41  
 N: 1592176.80  
 E: 3201823.71

**REMOVE CAP AND TIE TO FILING 1 8" SS**

**TC-SSMH-63**  
 13+01.83, 5.00', R

**TC-SSMH-78**  
 26+75.63, 0.00', L

**TC-SSMH-93**  
 15+76.83, 5.00', R

**8" PVC SS**

**1.00%**

**26+00**

**27+00**

**28+00**

**29+00**

**30+00**

**31+00**

**12+50**

**13+00**

**14+00**

**15+00**

**16+00**

**16+50**

**24+00**

**25+00**

**26+00**

**27+00**

**28+00**

**29+00**

**30+00**

**31+00**

**12+50**

**13+00**

**14+00**

**15+00**

**16+00**

**16+50**

**1" = 50'**

**MATCHLINE - SEE SHEET 7**

**FILING 5**

**FILING 6**

**SHASTA DAISY ST**

**BIRDS FOOT AVE**

**HOP CLOVER TRL**

**HOP CLOVER AVE**

**CL INTERSECTION**  
 BIRDS FOOT AVE 24+92.73  
 SHASTA DAISY ST 29+15.94  
 6120.83  
 N: 1592449.23  
 E: 3201297.01

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**8" PVC SS**

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**26+00**

**27+00**

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**30+00**

**31+00**

**12+50**

**13+00**

**14+00**

**15+00**

**16+00**

**16+50**

**24+00**

**25+00**

**26+00**

**27+00**

**28+00**

**29+00**

**30+00**

**31+00**

**12+50**

**13+00**

**14+00**

**15+00**

**16+00**

**16+50**

**1" = 50'**

**MATCHLINE - SEE SHEET 7**

**FILING 5**

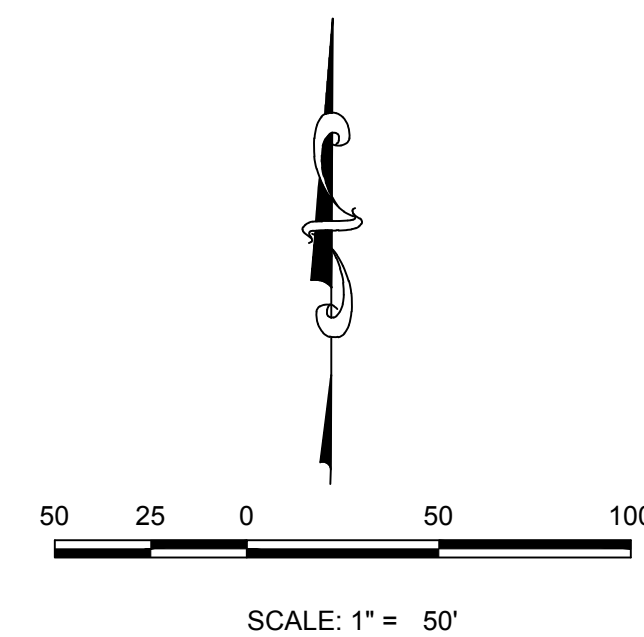
**FILING 6**

**SHASTA DAISY ST**

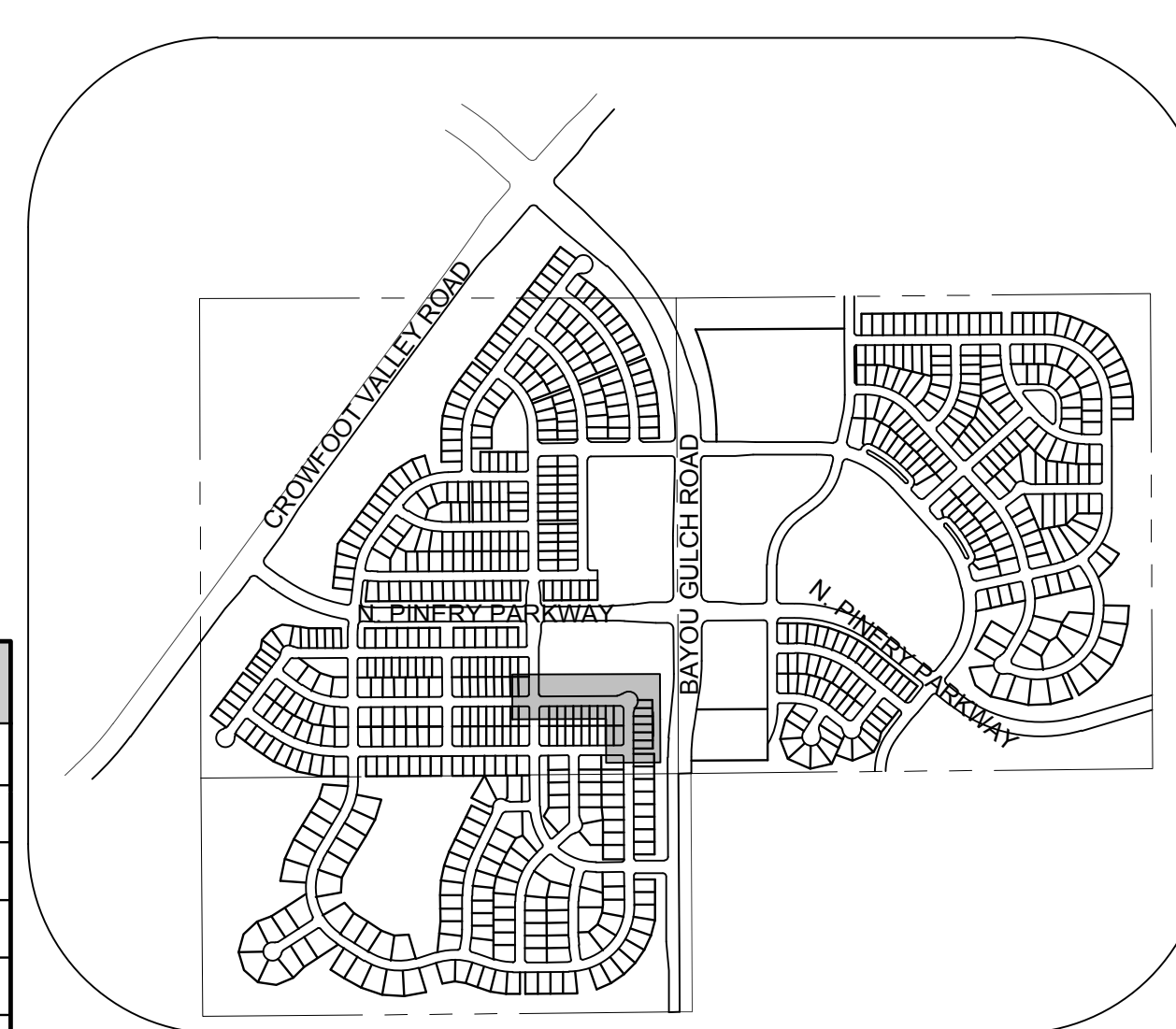
**BIRDS FOOT AVE**

**HOP CLOVER TRL**

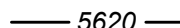
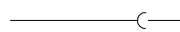
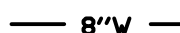
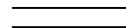
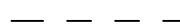
**HOP CLOVER AVE**



| SANITARY SERVICE TABLE |                |            |
|------------------------|----------------|------------|
| FILING, BLOCK, LOT     | STREET         | STATIONING |
| F5,B4,L1               | BIRDS FOOT AVE | 25+40.24   |
| F5,B4,L2               | BIRDS FOOT AVE | 25+90.60   |
| F5,B4,L3               | BIRDS FOOT AVE | 26+35.60   |
| F5,B4,L4               | BIRDS FOOT AVE | 26+80.60   |
| F5,B4,L5               | BIRDS FOOT AVE | 27+25.60   |
| F5,B4,L6               | BIRDS FOOT AVE | 27+70.60   |
| F5,B4,L7               | BIRDS FOOT AVE | 28+15.60   |
| F5,B4,L8               | BIRDS FOOT AVE | 28+60.60   |
| F5,B4,L9               | BIRDS FOOT AVE | 29+05.60   |
| F5,B4,L10              | BIRDS FOOT AVE | 29+50.60   |
| F5,B5,L1               | HOP CLOVER TRL | 13+13.21   |
| F5,B5,L2               | HOP CLOVER TRL | 13+58.21   |
| F5,B5,L3               | HOP CLOVER TRL | 14+03.21   |
| F5,B5,L4               | HOP CLOVER TRL | 14+48.21   |
| F5,B5,L5               | HOP CLOVER TRL | 14+93.21   |
| F5,B5,L6               | HOP CLOVER TRL | 15+38.21   |



KEYMAP  
N.T.S.  
LEGEND

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

## 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                    |
| FL  | FLOW LINE              | SS     | SANITARY SEWER                  |
| GV  | GATE VALVE             | STA    | STATION                         |
| HA  | HYDRANT ASSEMBLY       | 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         |

PREPARED UNDER THE  
SUPERVISION OF

BRIAN P. WILSON  
COLORADO P.E. 005006

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



CALL 811  
TWO WORKING DAYS  
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1-800-922-1987

0333 E. Dry Creek Rd.

Suite 240  
Englewood, CO 80112  
Tel: (720) 482-9526  
Fax: (720) 482-9546

5

►

**HR 935 LLC**  
7353 South Alton Way  
CENTENNIAL, CO 80143

CENTENNIAL, CO 80112

**TRAILS AT CROWFOOT  
FILING 5 CONSTRUCTION DRAWINGS  
SANITARY SEWER PLAN AND PROFILE**

BIRDFOOT AVENUE &amp; HOP CLOVER TRAIL

|          |          |
|----------|----------|
| FILE NO. | AS SHOWN |
|----------|----------|

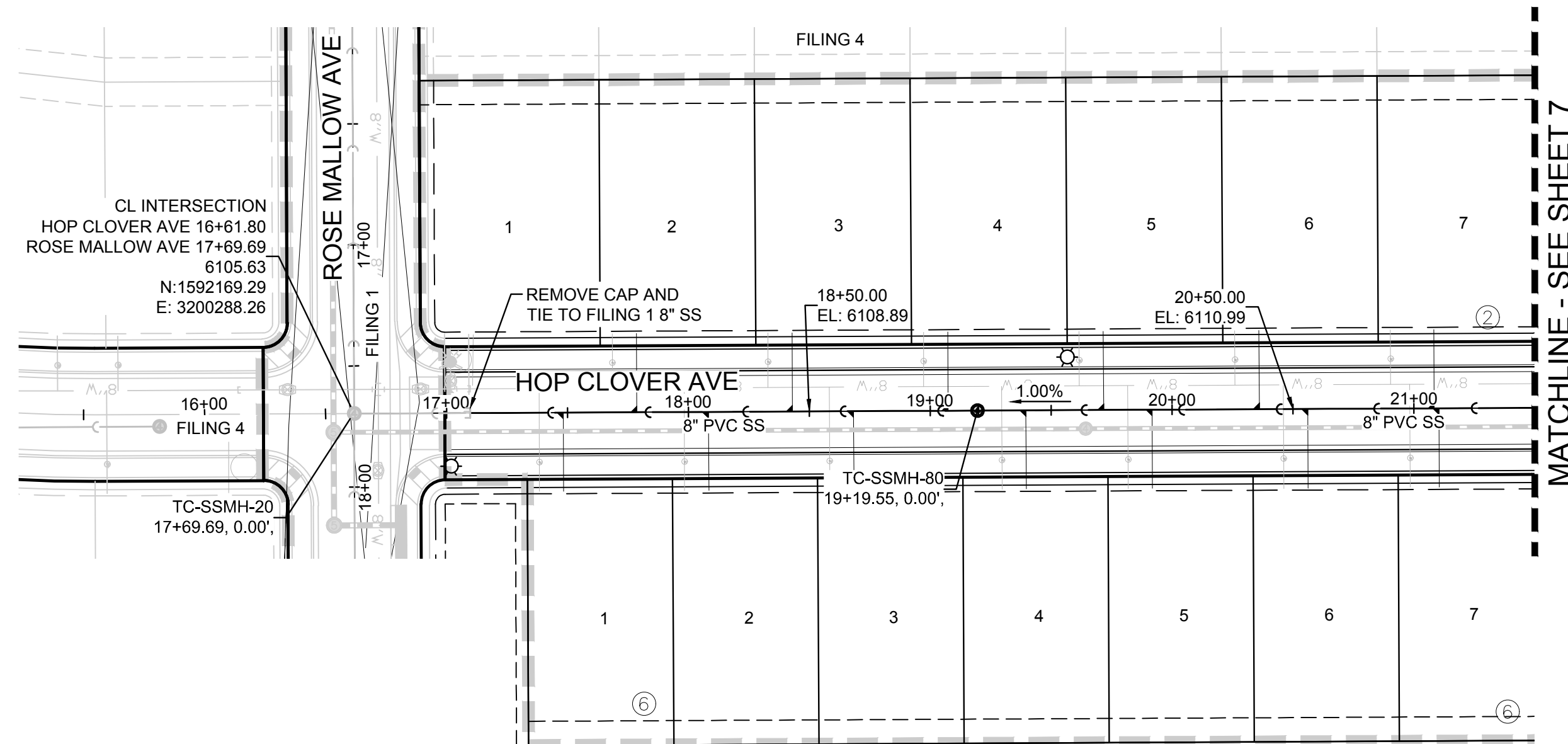
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**CHECKED BY:** KJD JJJ

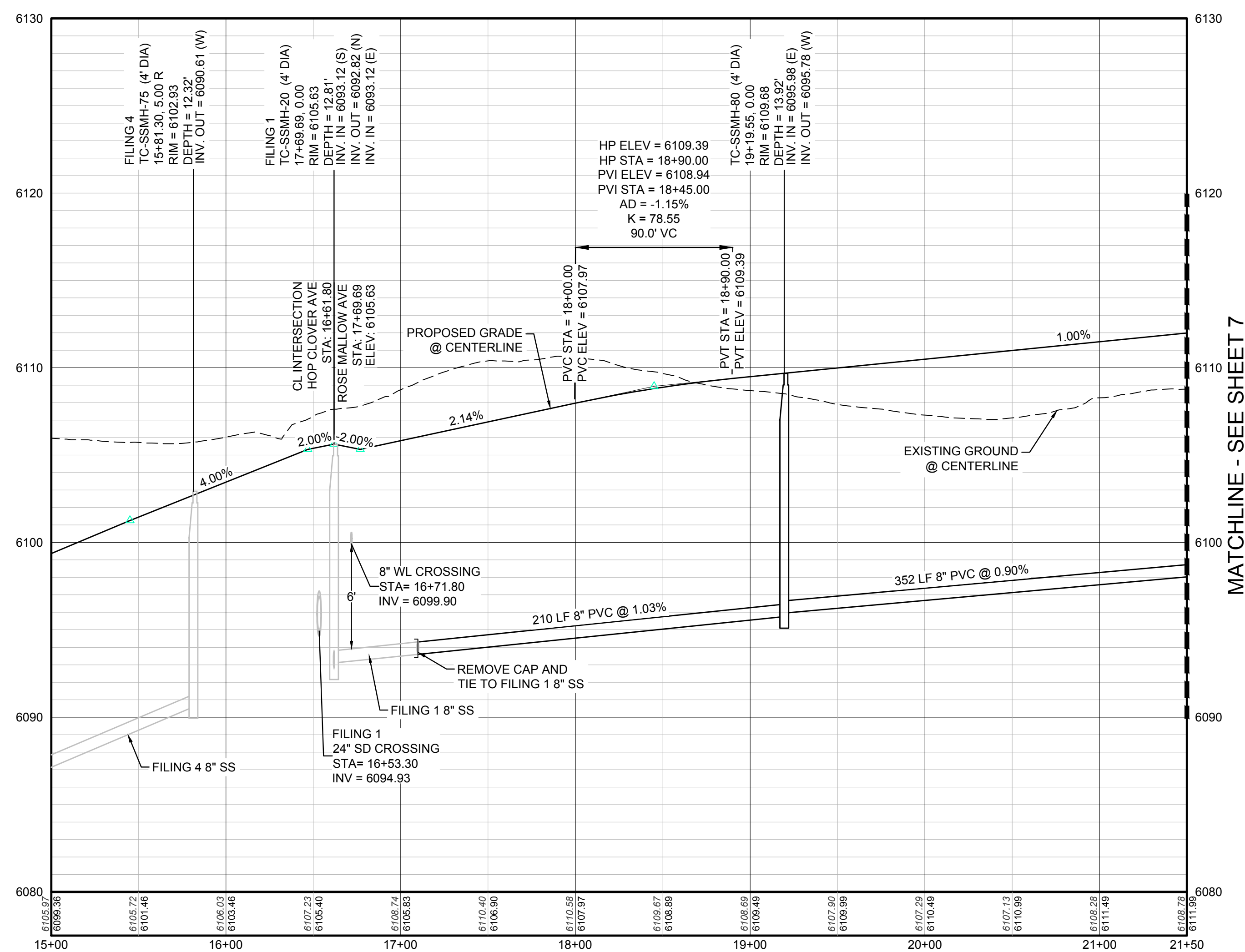
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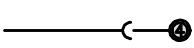
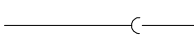
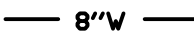
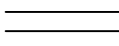
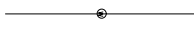
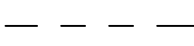


PLAN: HOP CLOVER AVENUE STA: 15+00.00 TO 21+50.00  
HORIZONTAL SCALE: 1" = 50'



PROFILE: HOP CLOVER AVE STA: 15+00.00 TO 21+50.00  
HORIZONTAL: 1" = 50'  
VERTICAL: 1" = 5'

| SANITARY SERVICE TABLE |                |            |
|------------------------|----------------|------------|
| FILING, BLOCK, LOT     | STREET         | STATIONING |
| F5,B2,L1               | HOP CLOVER AVE | 17+09.30   |
| F5,B2,L2               | HOP CLOVER AVE | 17+78.65   |
| F5,B2,L3               | HOP CLOVER AVE | 18+43.00   |
| F5,B2,L4               | HOP CLOVER AVE | 19+07.35   |
| F5,B2,L5               | HOP CLOVER AVE | 19+71.70   |
| F5,B2,L6               | HOP CLOVER AVE | 20+36.05   |
| F5,B2,L7               | HOP CLOVER AVE | 21+08.30   |
| F5,B6,L1               | HOP CLOVER AVE | 17+48.30   |
| F5,B6,L2               | HOP CLOVER AVE | 18+08.30   |
| F5,B6,L3               | HOP CLOVER AVE | 18+68.30   |
| F5,B6,L4               | HOP CLOVER AVE | 19+39.55   |
| F5,B6,L5               | HOP CLOVER AVE | 19+91.70   |
| F5,B6,L6               | HOP CLOVER AVE | 20+56.05   |
| F5,B6,L7               | HOP CLOVER AVE | 21+10.30   |

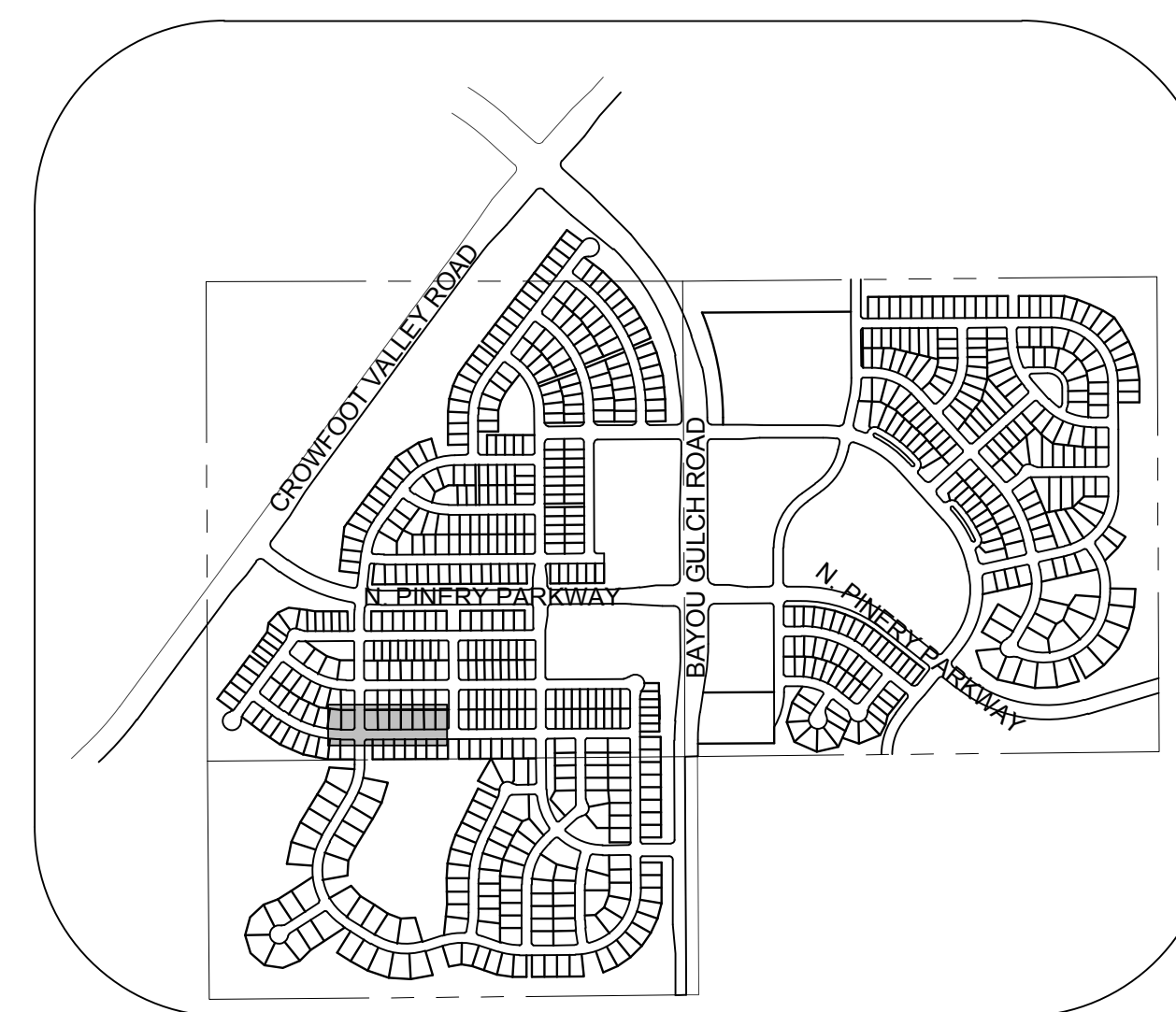
- |                                                                                       |                                       |                                                                                       |                                  |
|---------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|----------------------------------|
|    | 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                   |
|  | PROPOSED STORM DRAIN INLET            |  | EXISTING OPTIC LINE              |
|  | PROPOSED STORM DRAIN MANHOLE          |  | EXISTING OVERHEAD POWER          |
|                                                                                       |                                       |  | EXISTING TELEPHONE LINE          |

## 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    | POINT 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                    |
| FL  | FLOW LINE              | SS     | SANITARY SEWER                  |
| GV  | GATE VALVE             | STA    | STATION                         |
| HCR | HYDRANT ASSEMBLY       | T.O.P. | TOP OF PIPE                     |
| HCA | 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         |

PREPARED UNDER THE  
SUPERVISION OF

BRIAN P. WILSON  
COLORADO P.E. 005006



KEYMAP  
N.T.S.  
LEGEND

[illegible]

333 E. Dry Creek Rd.  
Suite 240  
Englewood, CO 80112  
Tel: (720) 482-9526  
Fax: (720) 482-9546



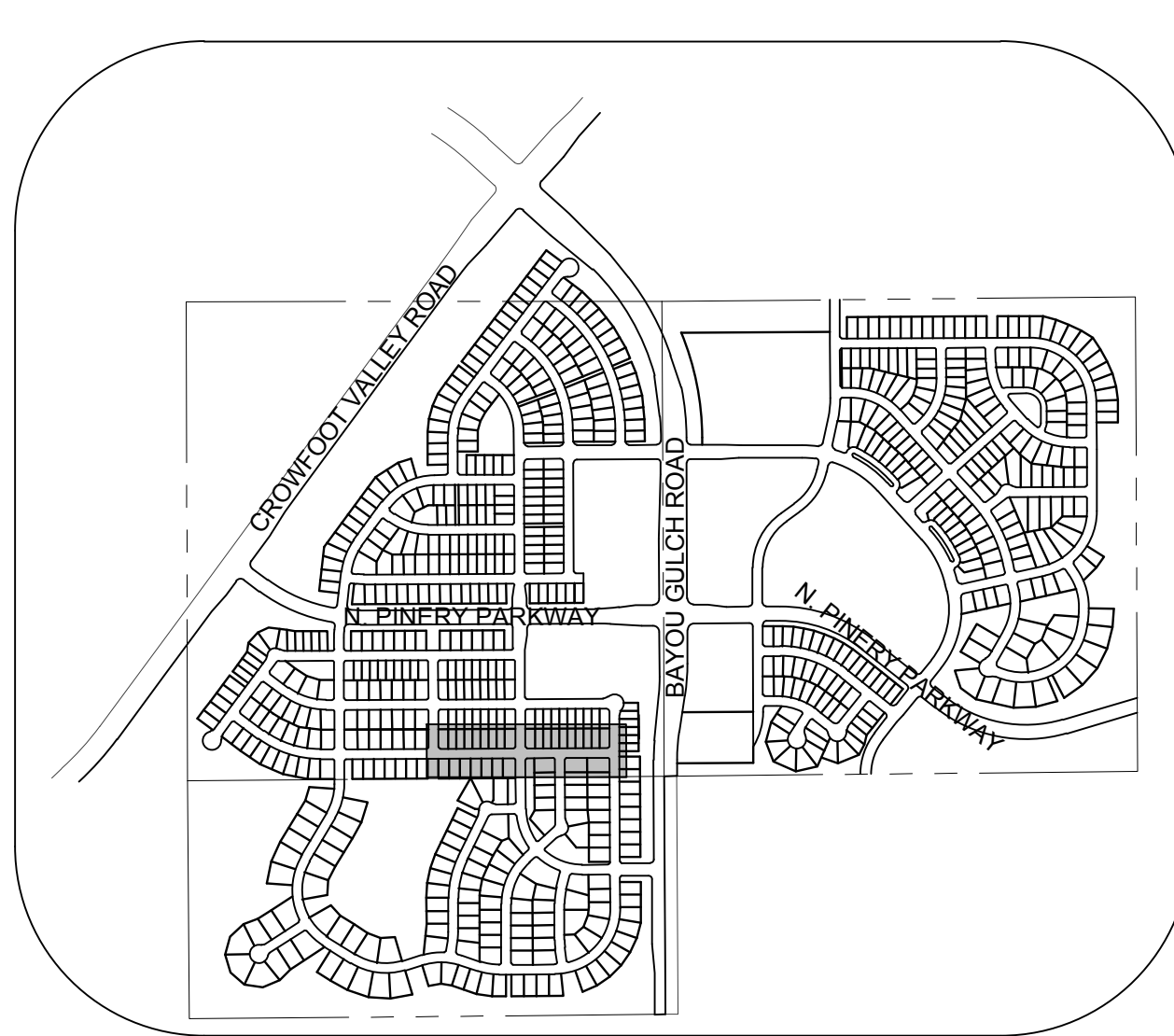
**CVL**  
CONSULTANTS

**HR 935 LLC**  
7353 South Alton Way  
CENTENNIAL, CO 80112

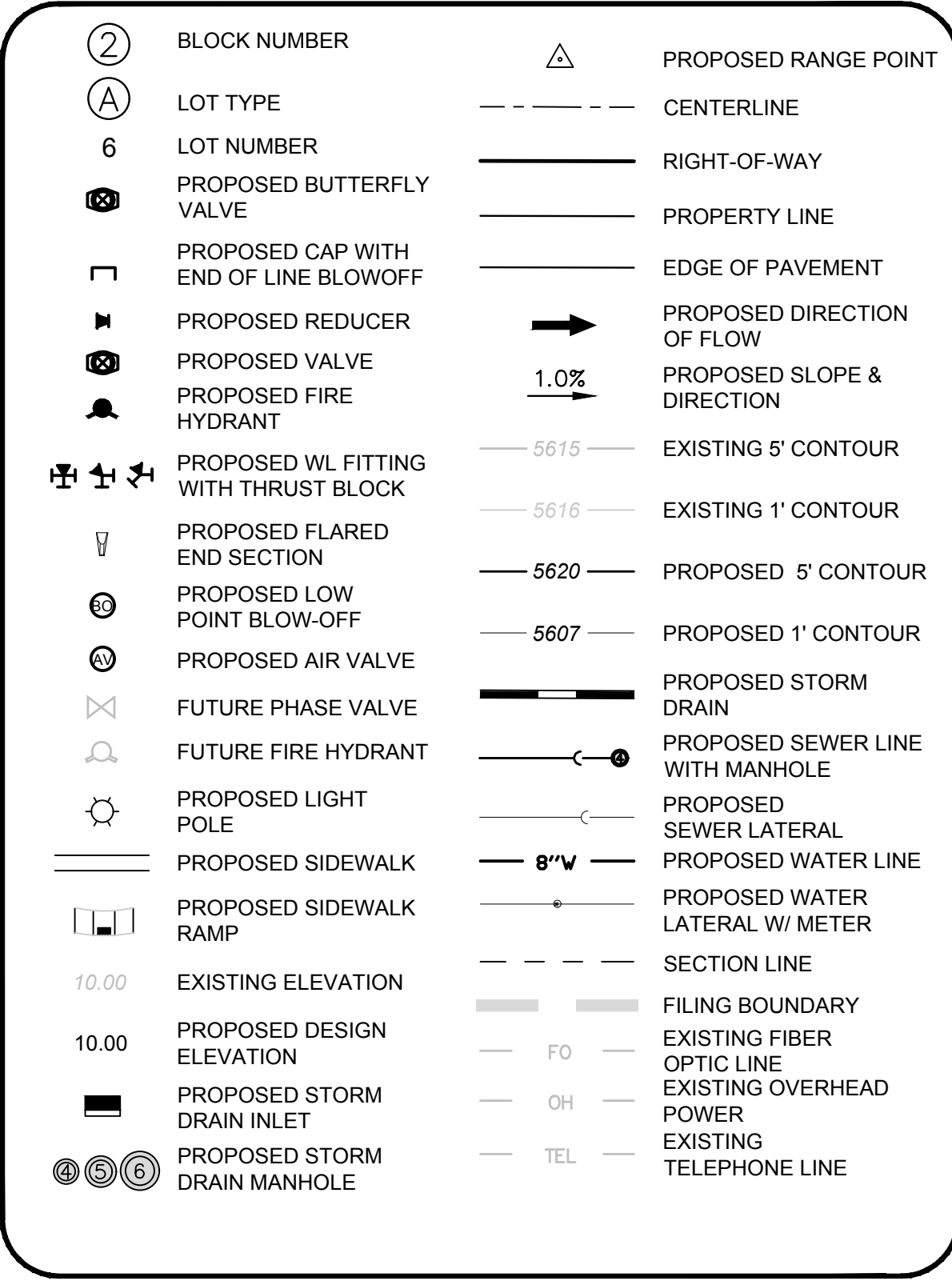
**TRAILS AT CROWFOOT**  
**PHASE 5 CONSTRUCTION DRAWINGS**  
**SANITARY SEWER PLAN AND PROFILE**  
**HOP CLOVER AVENUE**

|             |             |          |            |
|-------------|-------------|----------|------------|
| DRAWN BY:   | KJD         | SCALE:   | AS SHOWN   |
| CHECKED BY: | JJJ         | FILE NO: | 8130283701 |
| DATE:       | AUGUST 2017 |          |            |

6



KEYMAP  
N.T.S.  
LEGEND



|     |                        |        |                                 |
|-----|------------------------|--------|---------------------------------|
| 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                    |
| EXP | END VERTICAL PROFILE   | SD     | STORM DRAIN                     |
| FG  | FINISHED GROUND        | SL     | SECTION LINE                    |
| FL  | FLOW LINE              | SS     | SANITARY SEWER                  |
| GV  | GATE VALVE             | STA    | STATION                         |
| HA  | HYDRANT ASSEMBLY       | 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         |

PREPARED UNDER THE  
SUPERVISION OF

BRIAN P. WILSON  
COLORADO P.E. 0050067



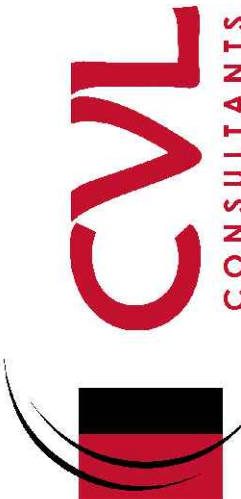
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1-800-922-1987

**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 SECTION 9 BY A 3-1/4" ALUMINUM CAP STAMPED LS 2305; THE EAST QUARTER CORNER OF SAID SECTION 9 BY ALUMINUM CAP STAMPED LS 6935 BEING CONSIDERED SOUTH 00°15'06" EAST, 2648.70 FEET.

333 E. Dry Creek Rd.  
Suite 240  
Englewood, CO 80112  
Tel: (720) 482-9526  
Fax: (720) 482-0546



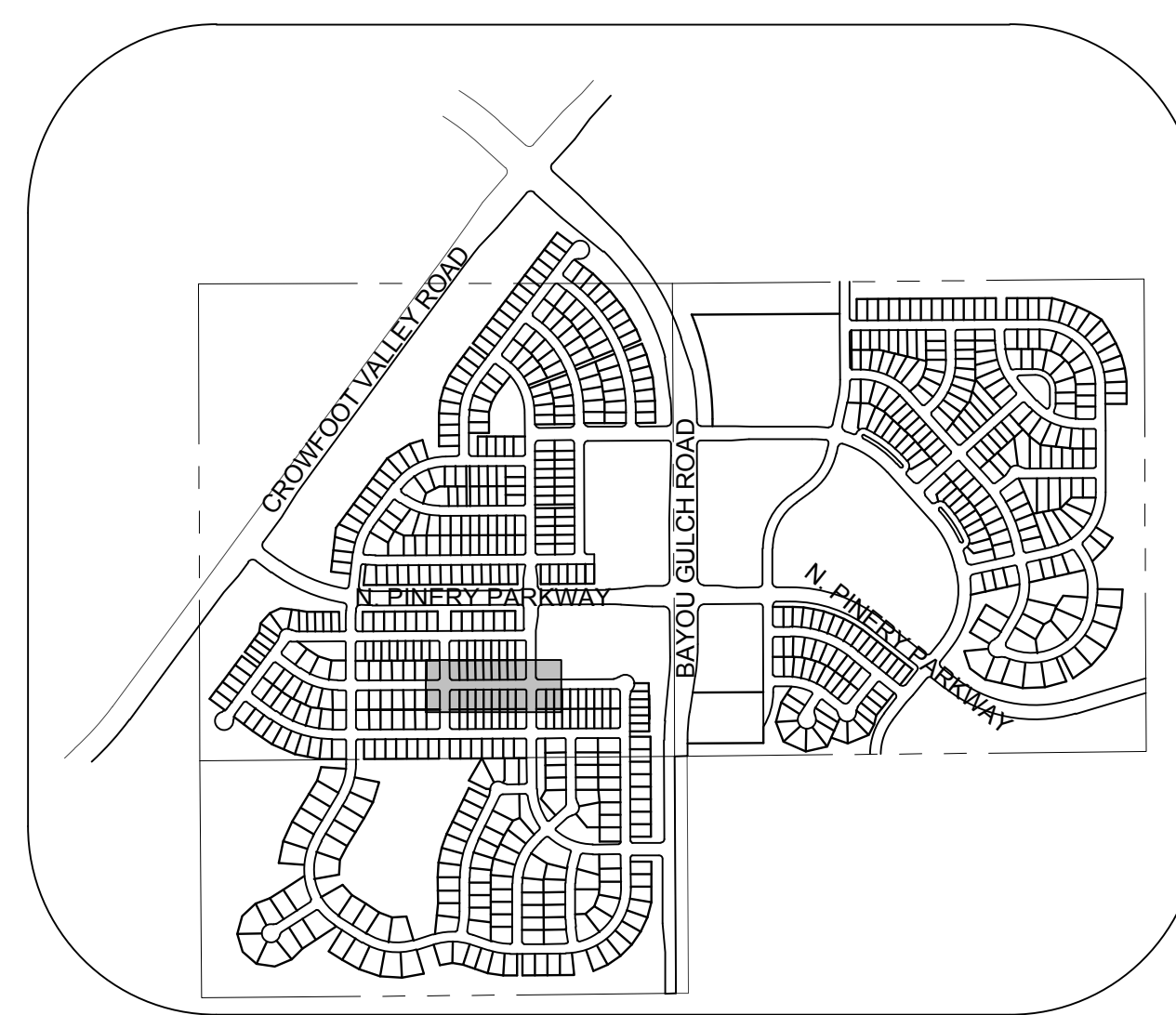
**HR 935 LLC**  
7353 South Alton Way  
CENTENNIAL, CO 80112

**TRAILS AT CROWFOOT**  
**PHASE 5 CONSTRUCTION DRAWINGS**  
**SANITARY SEWER PLAN AND PROFILE**  
**HOP CLOVER AVENUE**

|             |     |          |            |
|-------------|-----|----------|------------|
| DRAWN BY:   | KJD | SCALE:   | AS SHOWN   |
| CHECKED BY: | JJJ | FILE NO: | 8420292704 |
| DATE:       |     |          |            |

7  
SHEET NUMBER

**UNCC**  
UTILITY NOTIFICATION  
CENTER OF COLORADO



KEYMAP  
N.T.S.  
LEGEND

| WATER SERVICE TABLE |                |            |
|---------------------|----------------|------------|
| FILING, BLOCK, LOT  | STREET         | STATIONING |
| F5,B1,L1            | BIRDS FOOT AVE | 20+52.94   |
| F5,B1,L2            | BIRDS FOOT AVE | 20+97.63   |
| F5,B1,L3            | BIRDS FOOT AVE | 21+42.63   |
| F5,B1,L4            | BIRDS FOOT AVE | 21+87.63   |
| F5,B1,L5            | BIRDS FOOT AVE | 22+32.63   |
| F5,B1,L6            | BIRDS FOOT AVE | 22+77.63   |
| F5,B1,L7            | BIRDS FOOT AVE | 23+22.63   |
| F5,B1,L8            | BIRDS FOOT AVE | 23+67.63   |
| F5,B1,L9            | BIRDS FOOT AVE | 24+12.63   |
| F5,B3,L1            | BIRDS FOOT AVE | 20+54.94   |
| F5,B3,L2            | BIRDS FOOT AVE | 20+95.63   |
| F5,B3,L3            | BIRDS FOOT AVE | 21+40.63   |
| F5,B3,L4            | BIRDS FOOT AVE | 21+85.63   |
| F5,B3,L5            | BIRDS FOOT AVE | 22+30.63   |
| F5,B3,L6            | BIRDS FOOT AVE | 22+85.63   |
| F5,B3,L7            | BIRDS FOOT AVE | 23+20.63   |
| F5,B3,L8            | BIRDS FOOT AVE | 23+65.63   |
| F5,B3,L9            | BIRDS FOOT AVE | 24+10.63   |

| 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     | PVCB   | REINFORCED CONCRETE CUB CULVER |
| 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                   |
| FL            | FLOW LINE              | SS     | SANITARY SEWER                 |
| GV            | GATE VALVE             | STA    | STATION                        |
| HA            | HYDRANT ASSEMBLY       | 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        |

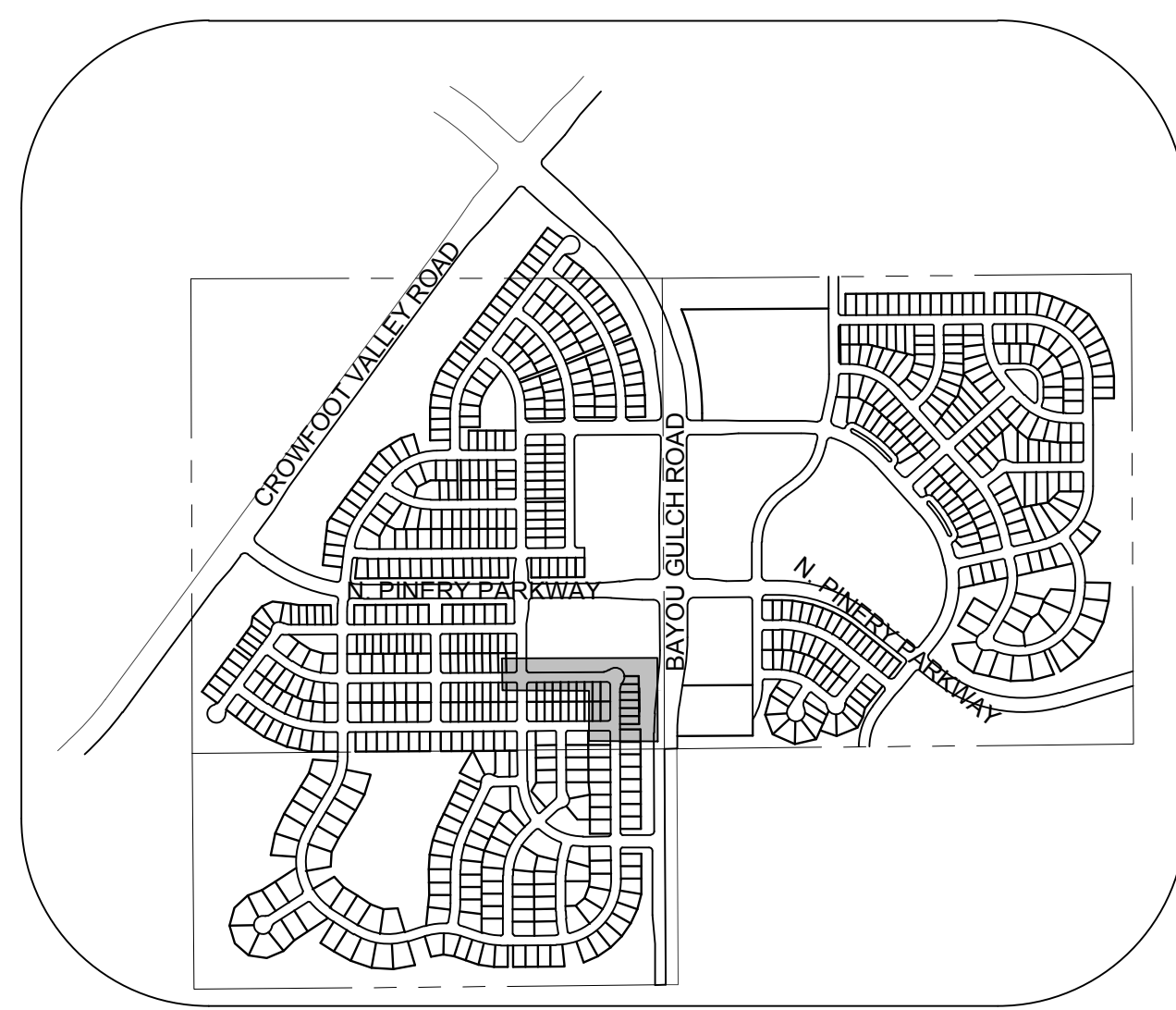
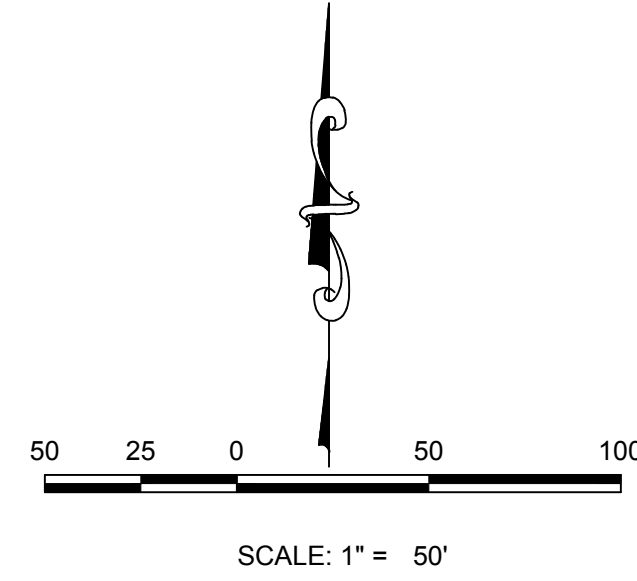
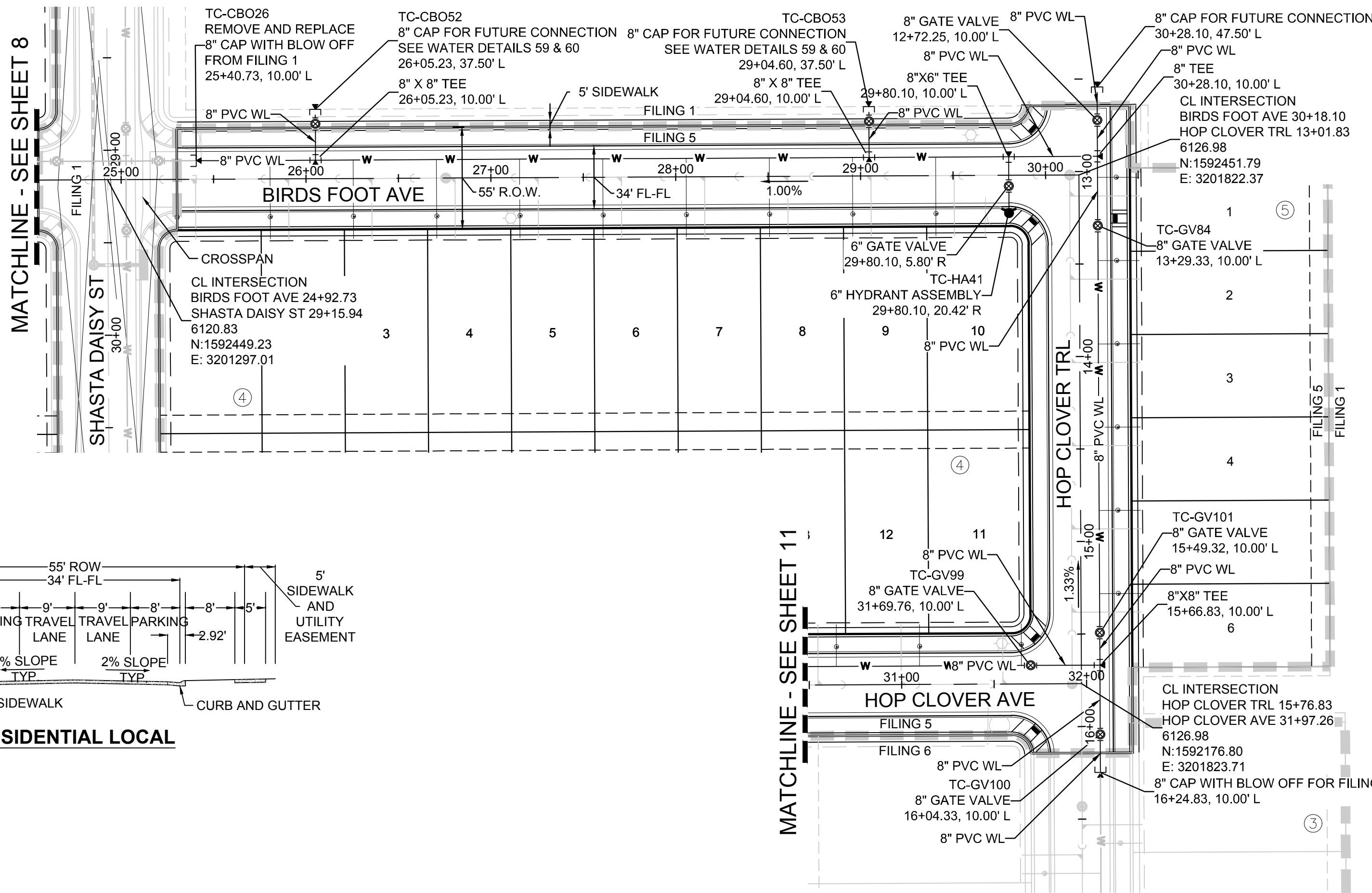


BENCHMARK  
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A  
3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST  
QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST  
OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED  
ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

**BASIS OF BEARINGS:**  
THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 5 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. 005006

| WATER SERVICE TABLE |                |            |
|---------------------|----------------|------------|
| FILING, BLOCK, LOT  | STREET         | STATIONING |
| F5.B4.L1            | BIRDS FOOT AVE | 25+30.24   |
| F5.B4.L2            | BIRDS FOOT AVE | 25+80.60   |
| F5.B4.L3            | BIRDS FOOT AVE | 26+25.60   |
| F5.B4.L4            | BIRDS FOOT AVE | 26+70.60   |
| F5.B4.L5            | BIRDS FOOT AVE | 27+15.60   |
| F5.B4.L6            | BIRDS FOOT AVE | 27+60.60   |
| F5.B4.L7            | BIRDS FOOT AVE | 28+05.60   |
| F5.B4.L8            | BIRDS FOOT AVE | 28+50.60   |
| F5.B4.L9            | BIRDS FOOT AVE | 28+95.60   |
| F5.B4.L10           | BIRDS FOOT AVE | 29+40.60   |
| F5.B5.L1            | HOP CLOVER TRL | 13+03.21   |
| F5.B5.L2            | HOP CLOVER TRL | 13+48.21   |
| F5.B5.L3            | HOP CLOVER TRL | 13+93.21   |
| F5.B5.L4            | HOP CLOVER TRL | 14+38.21   |
| F5.B5.L5            | HOP CLOVER TRL | 14+83.21   |
| F5.B5.L6            | HOP CLOVER TRL | 15+28.21   |

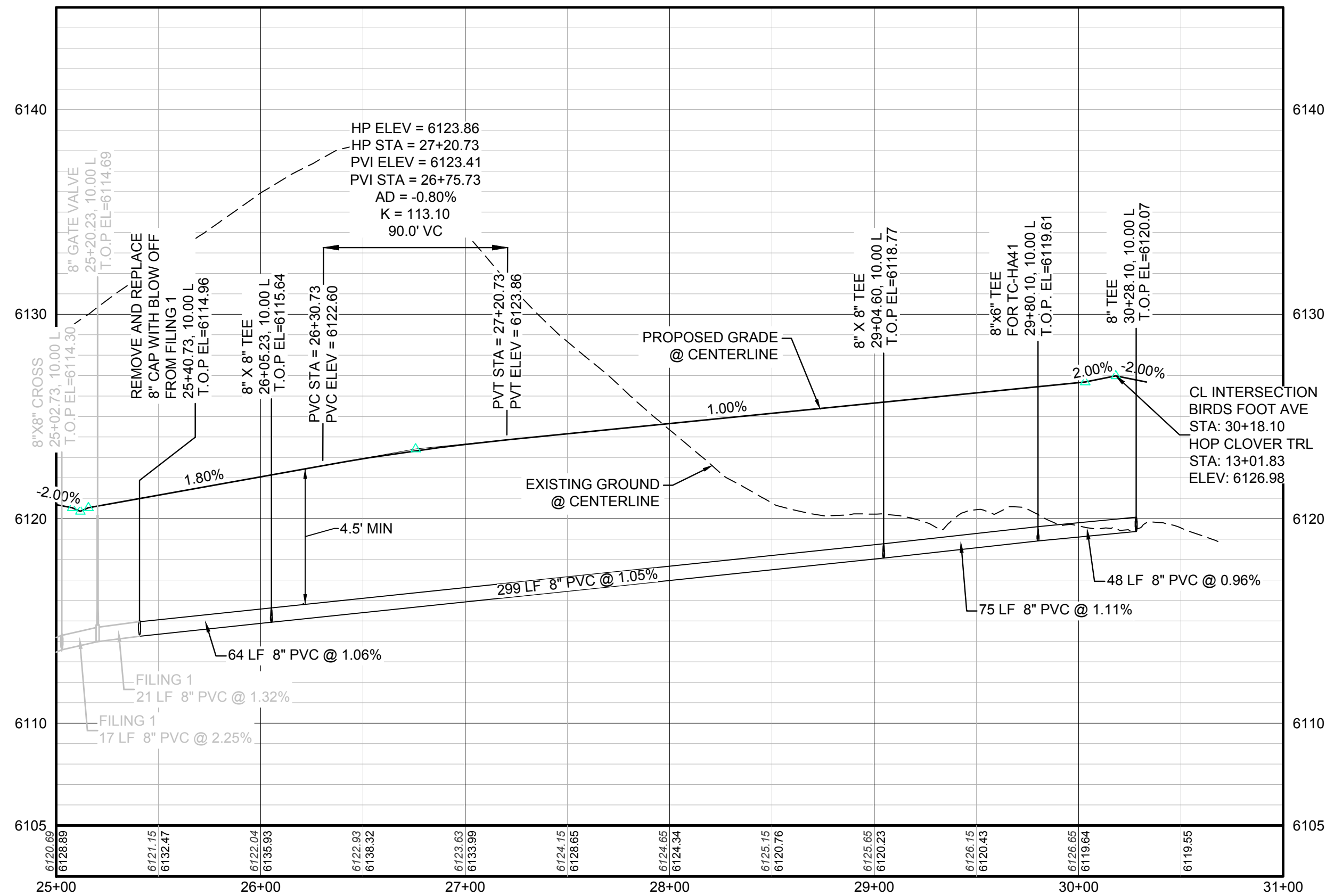


### KEYMAP N.T.S. LEGEND

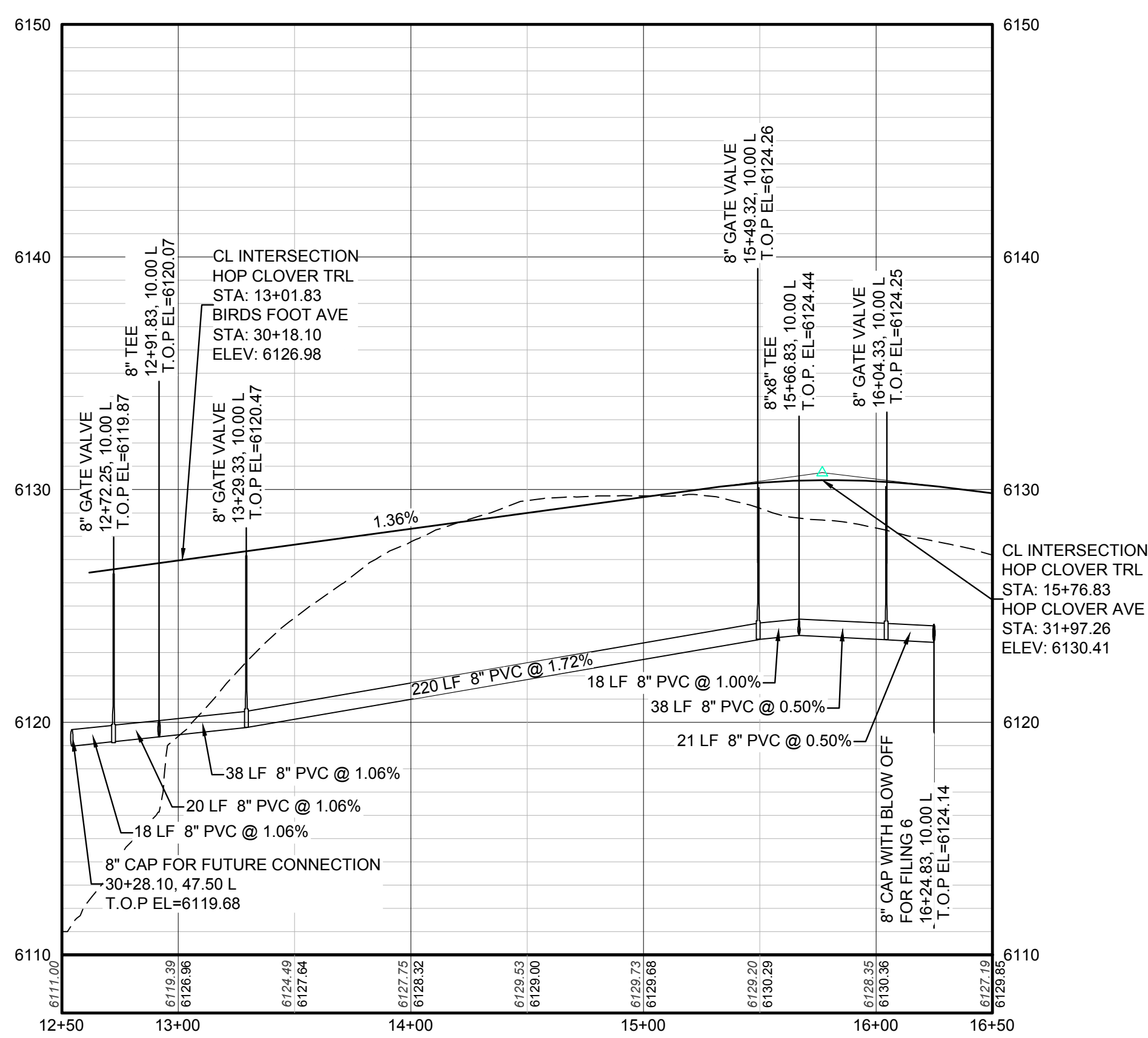
- |       |                                       |      |                                  |
|-------|---------------------------------------|------|----------------------------------|
| 2     | BLOCK NUMBER                          | △    | PROPOSED RANGE POINT             |
| A     | LOT TYPE                              | ---  | 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            | ---  | EXISTING FIBER OPTIC LINE        |
| ⊗     | PROPOSED STORM DRAIN MANHOLE          | ---  | EXISTING OVERHEAD POWER          |
|       |                                       | ---  | EXISTING TELEPHONE LINE          |

### 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                    |
| FL  | FLOW LINE              | SS     | SANITARY SEWER                  |
| GV  | GATE VALVE             | STA    | STATION                         |
| HA  | HYDRANT ASSEMBLY       | 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         |



PROFILE: BIRDS FOOT AVE STA: 25+00.00 TO 31+00.00  
HORIZONTAL: 1" = 50'  
VERTICAL: 1" = 5'



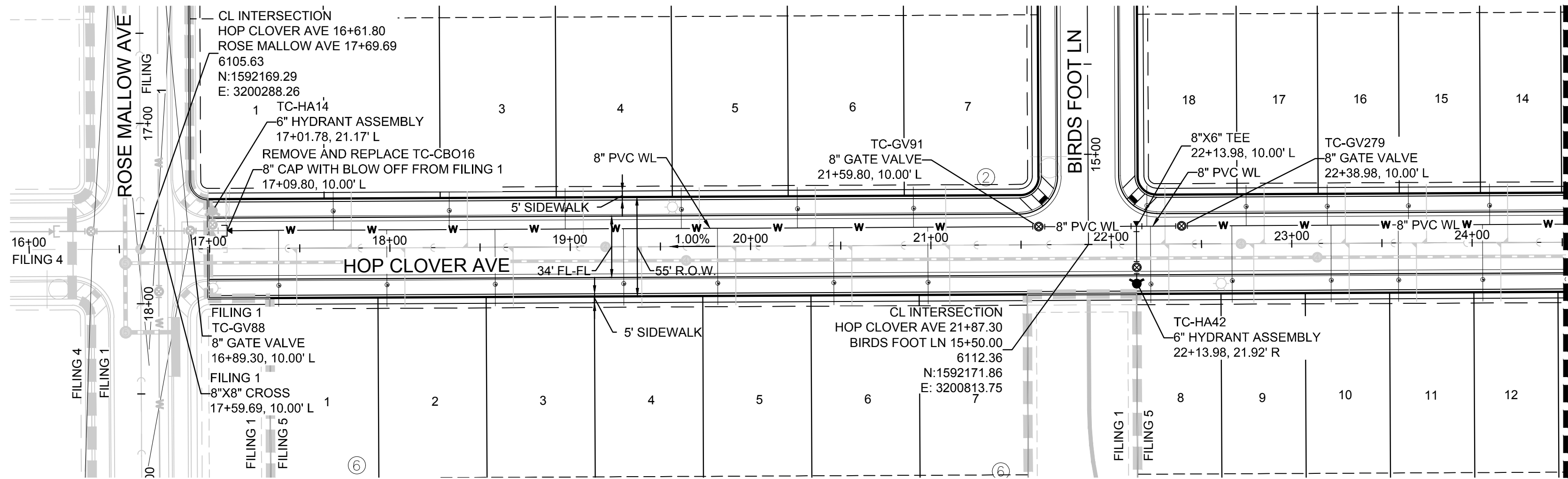
PROFILE: HOP CLOVER TRL STA: 12+50.00 TO 16+50.00  
HORIZONTAL: 1" = 50'  
VERTICAL: 1" = 5'

**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.

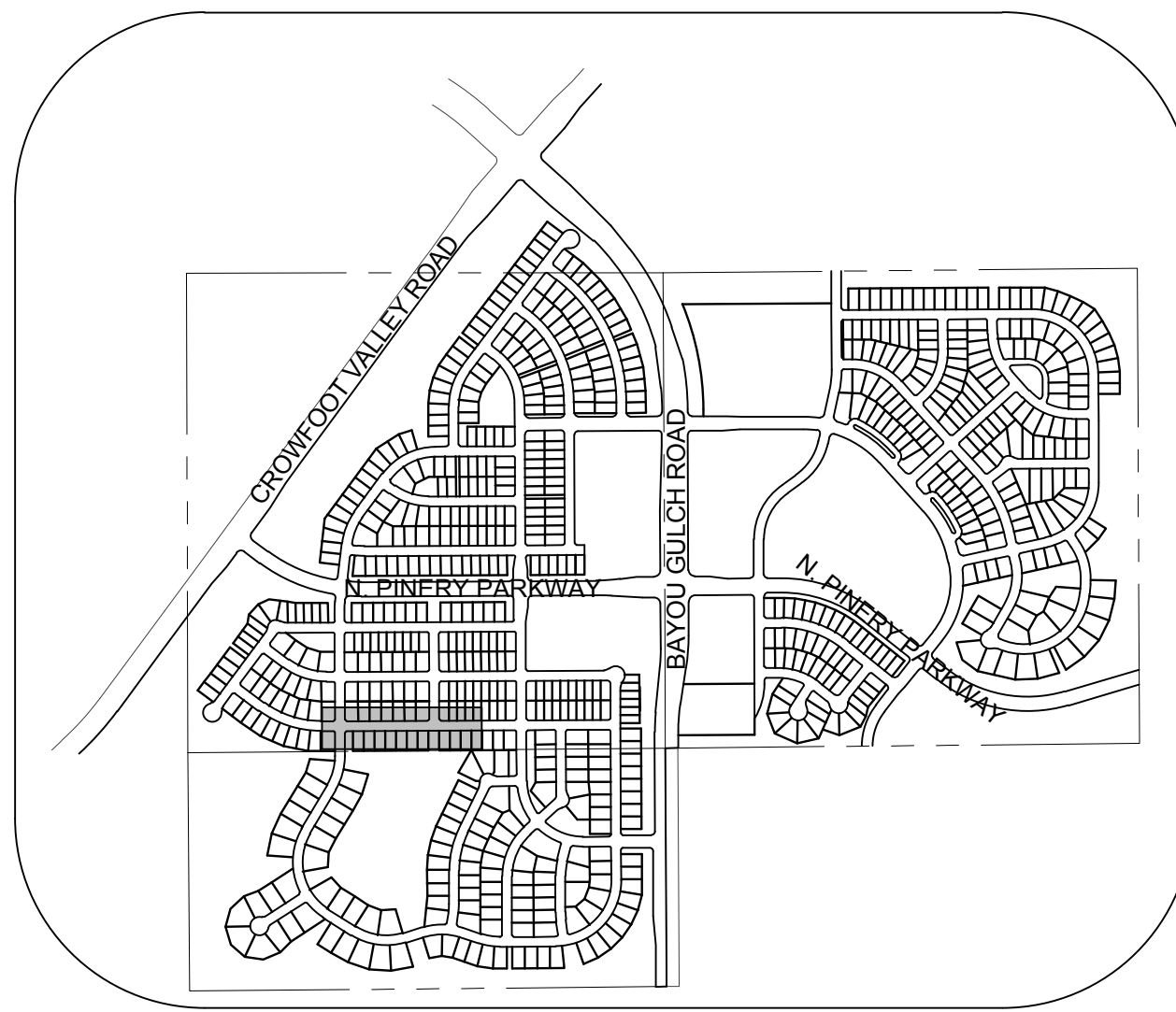
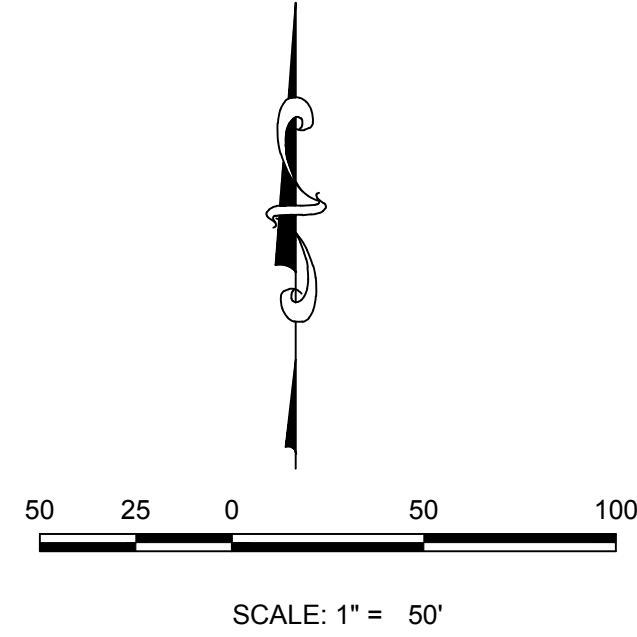
**BASIS OF BEARINGS:**  
THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 9 BEING MONUMENTED AT THE NORTHEAST CORNER OF SAID SECTION 9 BY A 3-1/4" ALUMINUM CAP STAMPED LS 23053 AND AT THE EAST QUARTER CORNER OF SAID SECTION 9 BY A 2-1/2" ALUMINUM CAP STAMPED LS 6935 BEING CONSIDERED TO BEAR SOUTH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

PREPARED UNDER THE SUPERVISION OF

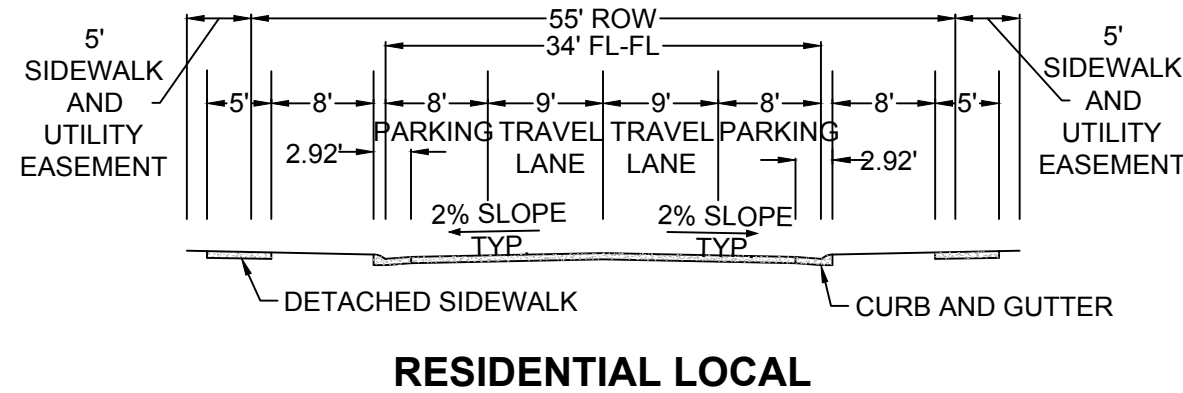
BRIAN P. WILSON  
COLORADO P.E. 0050067



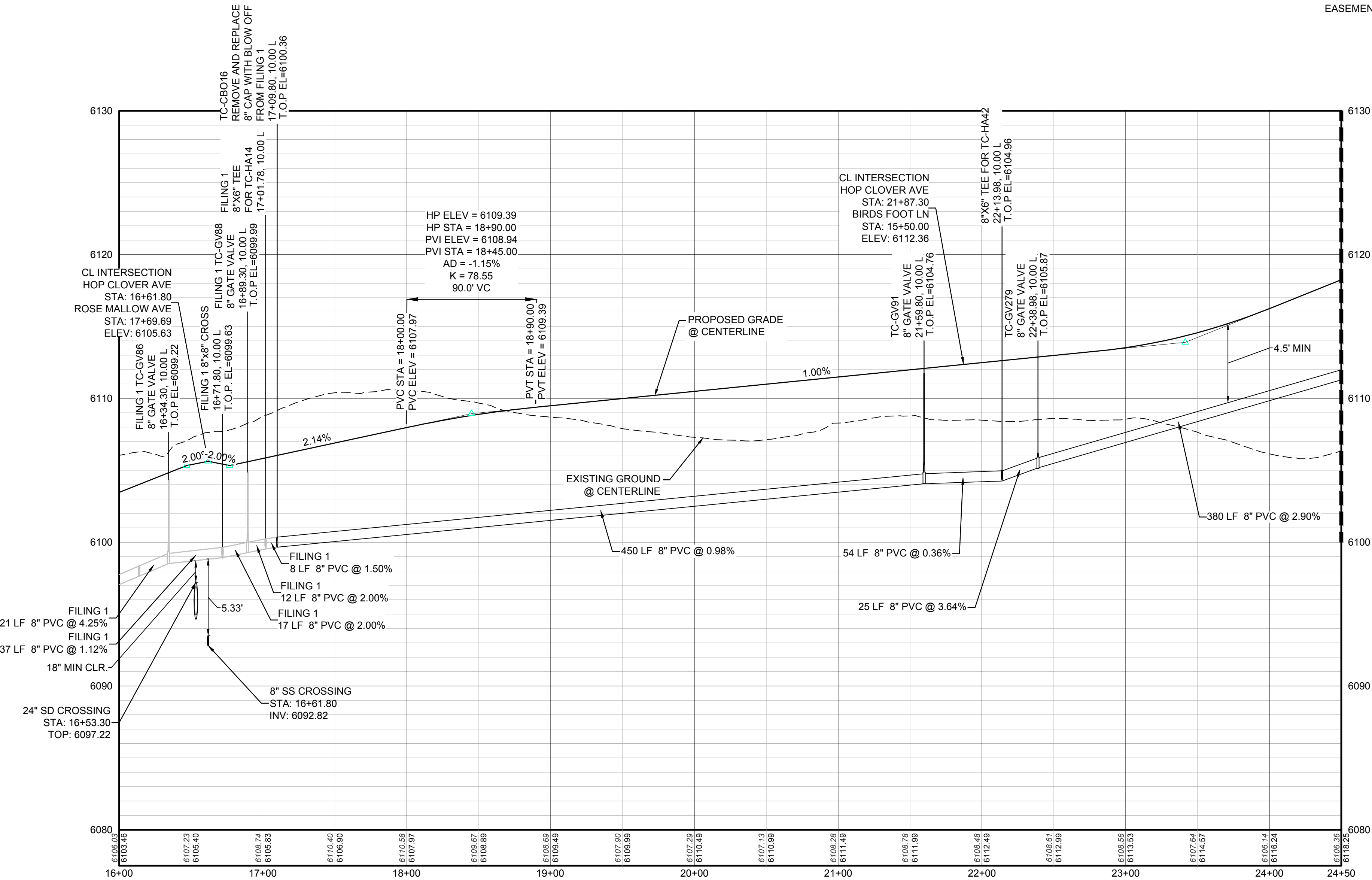
PLAN: HOP CLOVER AVE STA: 16+00.00 TO 24+50.00  
HORIZONTAL SCALE: 1" = 50'



KEYMAP  
N.T.S.  
LEGEND



RESIDENTIAL LOCAL



PROFILE: HOP CLOVER AVE STA: 16+00.00 TO 24+50.00  
HORIZONTAL: 1" = 50'  
VERTICAL: 1" = 5'

| WATER SERVICE TABLE |                |            |
|---------------------|----------------|------------|
| FILING, BLOCK, LOT  | STREET         | STATIONING |
| F5,B2,L1            | HOP CLOVER AVE | 16+99.30   |
| F5,B2,L2            | HOP CLOVER AVE | 17+68.65   |
| F5,B2,L3            | HOP CLOVER AVE | 18+33.00   |
| F5,B2,L4            | HOP CLOVER AVE | 18+97.35   |
| F5,B2,L5            | HOP CLOVER AVE | 19+61.70   |
| F5,B2,L6            | HOP CLOVER AVE | 20+26.05   |
| F5,B2,L7            | HOP CLOVER AVE | 20+90.40   |
| F5,B3,L14           | HOP CLOVER AVE | 24+09.80   |
| F5,B3,L15           | HOP CLOVER AVE | 23+64.80   |
| F5,B3,L16           | HOP CLOVER AVE | 23+19.80   |
| F5,B3,L17           | HOP CLOVER AVE | 22+74.80   |
| F5,B3,L18           | HOP CLOVER AVE | 22+19.80   |
| F5,B6,L1            | HOP CLOVER AVE | 17+38.30   |
| F5,B6,L2            | HOP CLOVER AVE | 17+98.30   |
| F5,B6,L3            | HOP CLOVER AVE | 18+58.30   |
| F5,B6,L4            | HOP CLOVER AVE | 19+29.55   |
| F5,B6,L5            | HOP CLOVER AVE | 19+81.70   |
| F5,B6,L6            | HOP CLOVER AVE | 20+46.05   |
| F5,B6,L7            | HOP CLOVER AVE | 20+98.30   |
| F5,B6,L8            | HOP CLOVER AVE | 22+21.80   |
| F5,B6,L9            | HOP CLOVER AVE | 22+61.90   |
| F5,B6,L10           | HOP CLOVER AVE | 23+21.80   |
| F5,B6,L11           | HOP CLOVER AVE | 23+59.14   |
| F5,B6,L12           | HOP CLOVER AVE | 24+05.85   |

- 2

A

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

EXISTING ELEVATION

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

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
- AD

AV

BVC

BVP

CBO

CRR

EL

EP

EVC

EVP

FG

FL

GV

HA

HCR

HP

INV

K

LF

ANGLE DIFFERENCE

AIR VAC RELEASE VALVE

BEGIN VERTICAL CURVE

BEGIN VERTICAL PROFILE

CAP WITH BLOW OFF

CURB RETURN RADIUS

ELEVATION

EDGE OF PAVEMENT

END VERTICAL CURVE

END VERTICAL PROFILE

FINISHED GROUND

FLOW LINE

GATE VALVE

HYDRANT ASSEMBLY

HANDICAP CURB RAMP

HIGH POINT

INVERT

CURVATURE COEFFICIENT

LINEAR FEET

MANHOLE

N.T.S.

PVC

PVT

POINT OF VERTICAL INTERSECTION

POINT OF VERTICAL TANGENT

REINFORCED CONCRETE BOX CULVERT

REINFORCED CONCRETE PIPE

RIGHT OF WAY

SANITARY CAP

STORM DRAIN

SECTION LINE

SANITARY SEWER

STA

T.O.P.

TOP OF PIPE

UTILITY EASEMENT

VERTICAL CURVE

WATER LINE

WATER LINE CONNECTION

WATER SURFACE ELEVATION

ABBREVIATIONS

- AD

AV

BVC

BVP

CBO

CRR

EL

EP

EVC

EVP

FG

FL

GV

HA

HCR

HP

INV

K

LF

ANGLE DIFFERENCE

AIR VAC RELEASE VALVE

BEGIN VERTICAL CURVE

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EDGE OF PAVEMENT

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STA

T.O.P.

TOP OF PIPE

UTILITY EASEMENT

VERTICAL CURVE

WATER LINE

WATER LINE CONNECTION

WATER SURFACE ELEVATION

PREPARED UNDER THE SUPERVISION OF

BRIAN P. WILSON  
COLORADO P.E. 0050067

N:\PROJECTS\SSR\BANCROFT\ENGINEERING\SSR\BANCROFT\WATER AND SANITATION\WATER PLAN AND PROFILE\SSR DAMES ROCKET AVENUE WATER DNG. BRIANK. 12/18/2017 4:10 PM

CALL 811  
TWO WORKING DAYS  
BEFORE YOU DIG  
UNCC 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.

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10333 E. Dry Creek Rd.  
Englewood, CO 80110  
Tel: (720) 482-9526  
Fax: (720) 482-9548

CVL

CONSULTANTS

HR 935 LLC  
7353 South Alton Way  
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT  
FILING 5 CONSTRUCTION DRAWINGS  
WATER PLAN & PROFILE  
HOP CLOVER AVENUE

SCALE: AS SHOWN  
FILE NO: 8130283701  
DRAWN BY: RHR  
CHECKED BY: JJ  
DATE: AUGUST 2017

SHEET NUMBER 10

No. Revisions Date Init. Appr. Date



# INSPECTION POLICY:

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 REPAIR WILL BE REQUIRED IN ACCORDANCE WITH NOTES 1 AND 2 ABOVE.
4. THE CONTRACTOR SHALL LEAVE ALL PIPE 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.

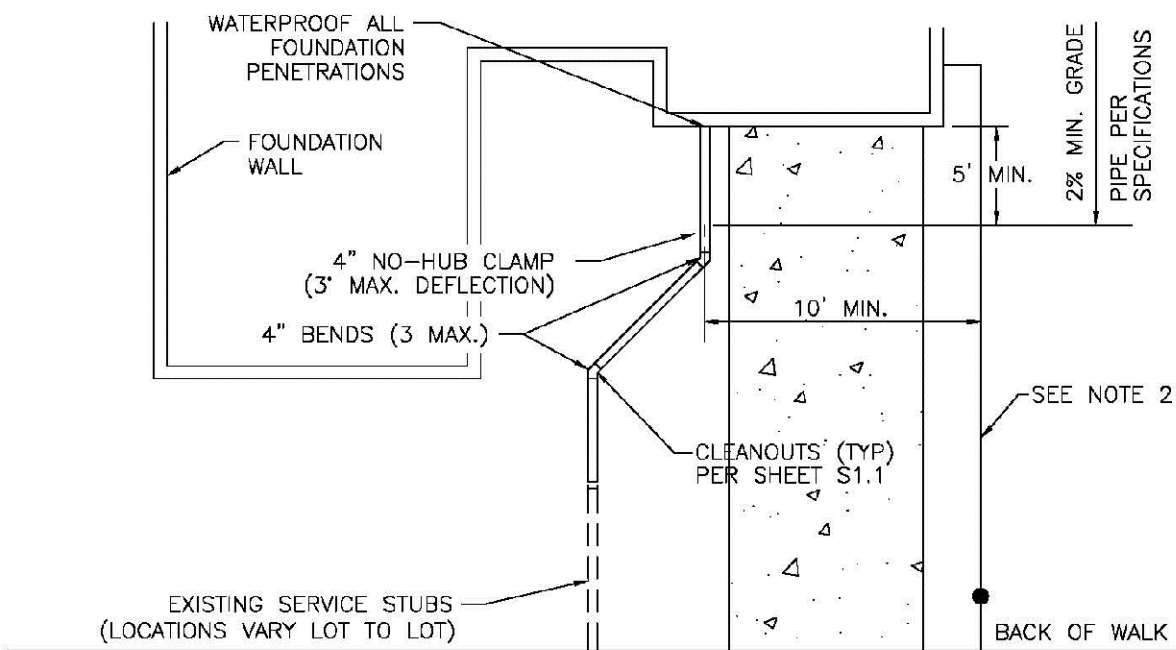
# INSTALLATION NOTES:

## SEWER

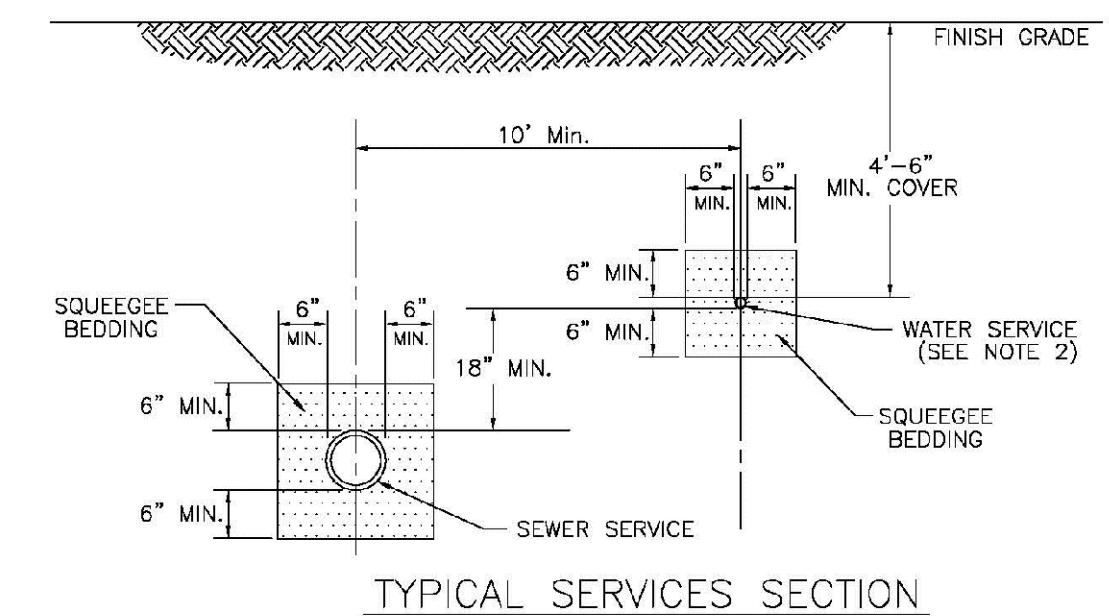
1. ACCEPTABLE PIPE MATERIALS ARE TO BE SDR 35 PVC PIPE, ABS PIPE AND PVC SCHD 40 PIPE. APPROVED BEDDING IS TO BE SQUEEGEE.
2. NO-HUB CLAMPS SHALL BE USED TO JOIN 2 MALE PIPE ENDS WITH A MAXIMUM DEFLECTION OF 3'.
3. MINIMUM GRADE SHALL BE 2%.
4. INSTALLATION SHALL INCLUDE NO MORE THAN 3 BENDS. 90° BENDS 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

|                                                           |             |
|-----------------------------------------------------------|-------------|
| PARKER WATER & SANITATION DISTRICT                        |             |
| DISTRICT POLICIES & INSTALLATION NOTES FOR SEWER SERVICES |             |
| SCALE: NONE                                               | DATE: 2/96  |
| APPROVED: PVR                                             | 01/02 10/16 |
| DIRECTOR OF ENGINEERING                                   | 1/08 1/16   |

SHEET S1.1



TYPICAL SERVICES PLAN VIEW

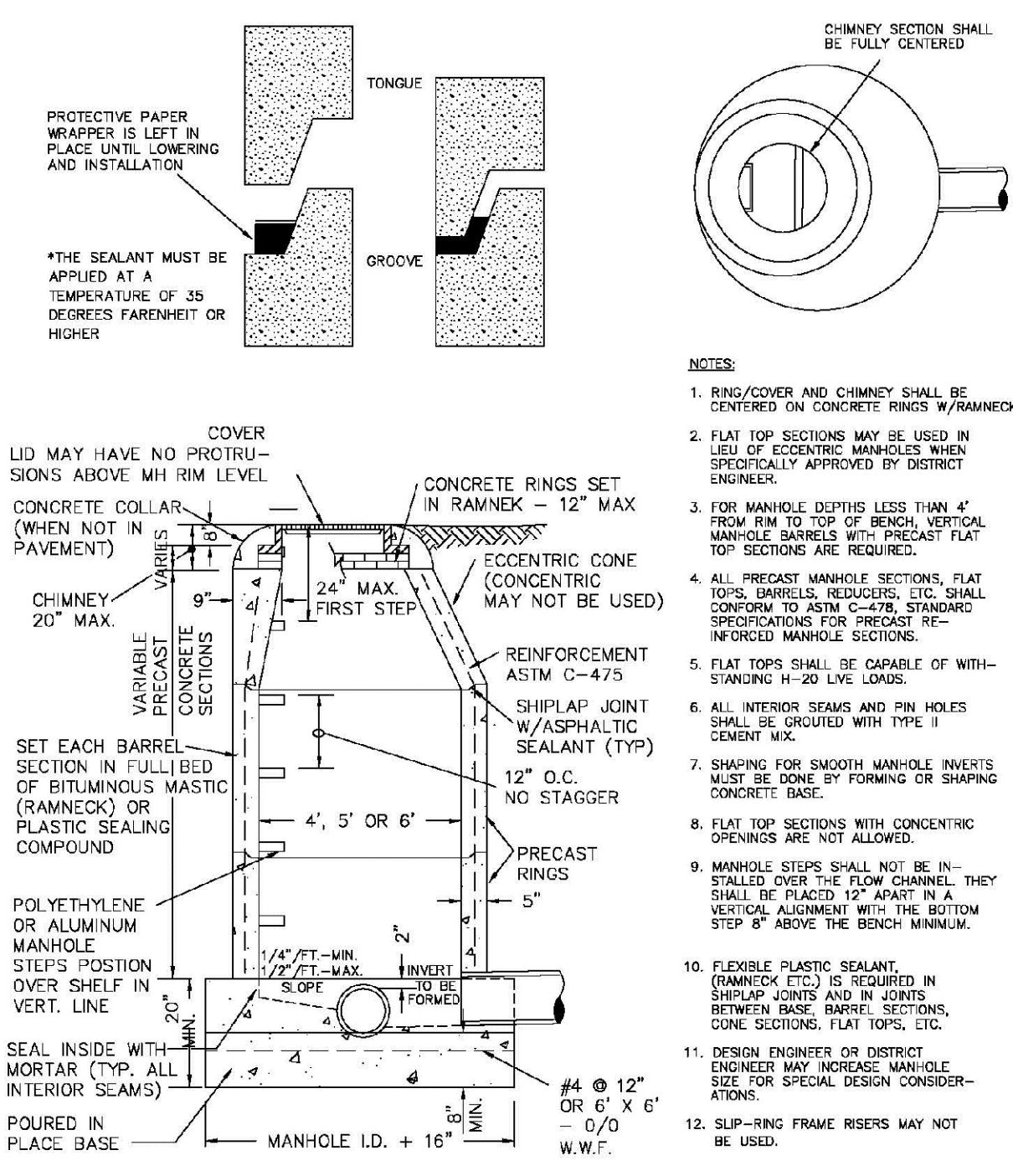


TYPICAL SERVICES SECTION

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

|                                    |                        |
|------------------------------------|------------------------|
| PARKER WATER & SANITATION DISTRICT |                        |
| TYPICAL SEWER SERVICES             |                        |
| SCALE: NONE                        | DATE: 2/96             |
| APPROVED: PVR                      | 2/00 01/02 01/16 10/16 |
| DIRECTOR OF ENGINEERING            |                        |

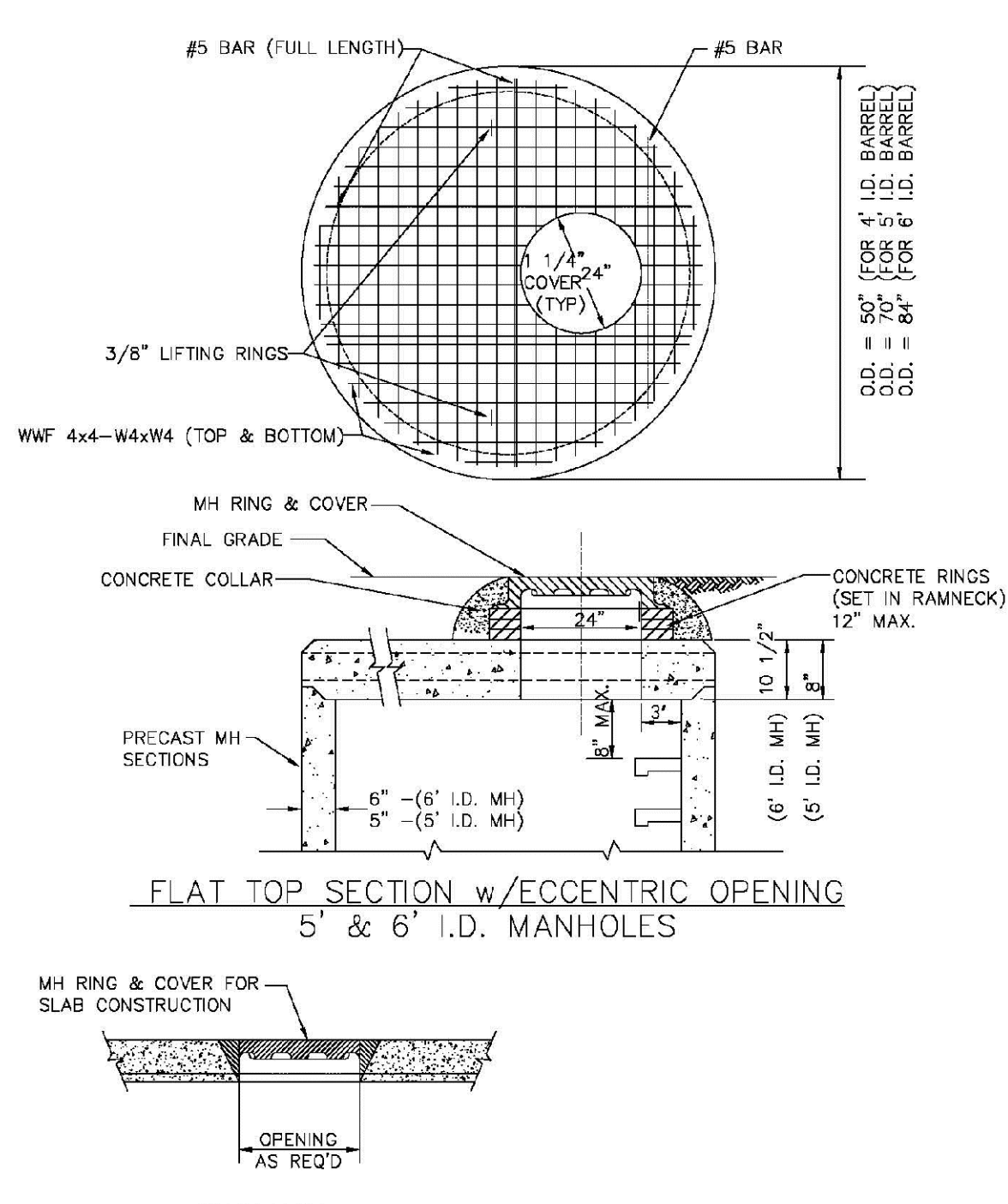
SHEET S1.2



PARKER WATER & SANITATION DISTRICT  
PRECAST MANHOLE  
ECCENTRIC CONE

|                         |                 |
|-------------------------|-----------------|
| SCALE: NONE             | DATE: 2/96      |
| APPROVED: PVR           | 4/01 01/02 1/08 |
| DIRECTOR OF ENGINEERING |                 |

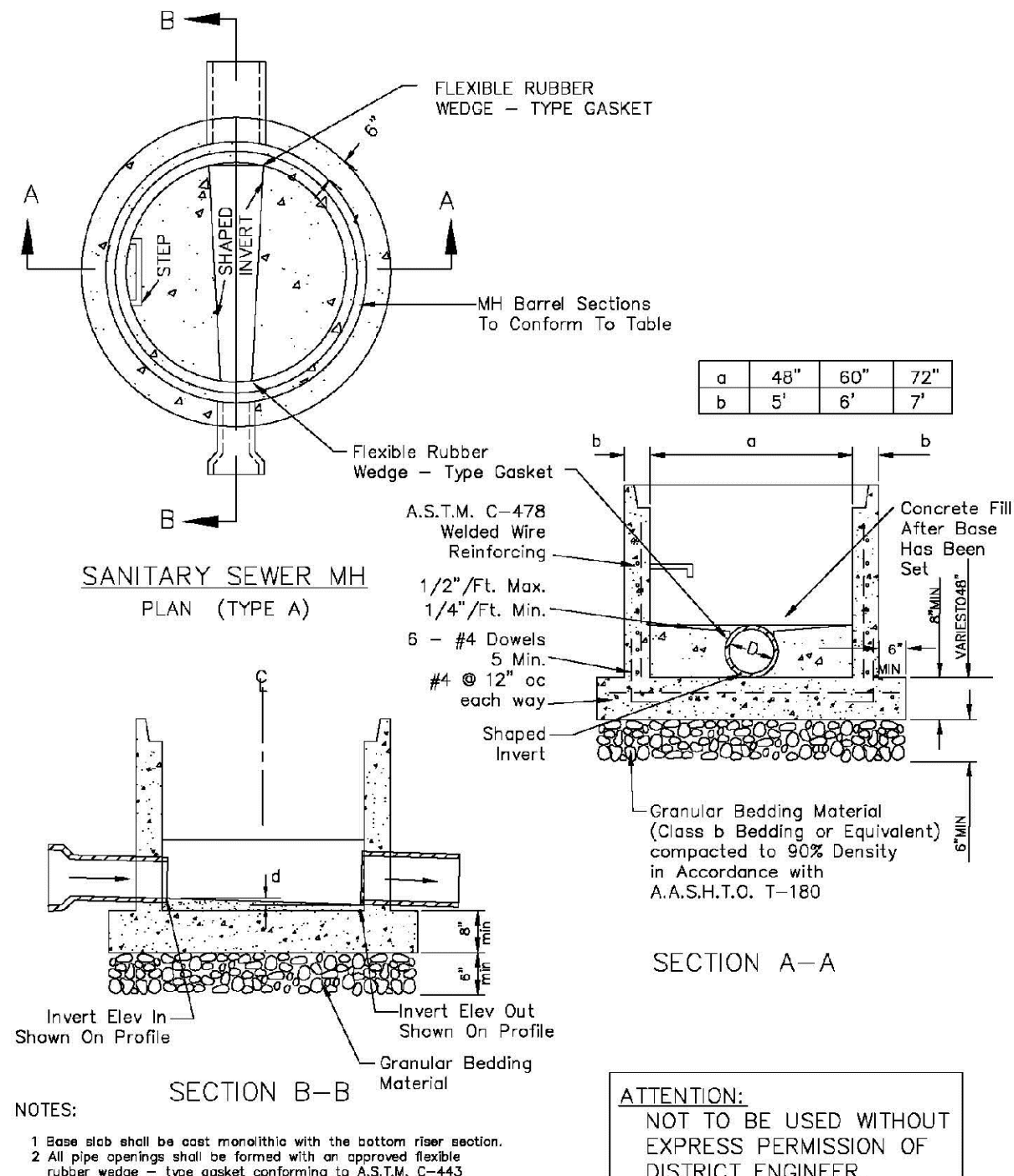
SHEET S3.1



PARKER WATER & SANITATION DISTRICT  
PRECAST MANHOLE - 5' & 6' I.D.  
WITH ECCENTRIC CONE

|                         |                   |
|-------------------------|-------------------|
| SCALE: NONE             | DATE: 2/96        |
| APPROVED: PVR           | 01/02 01/16 10/16 |
| DIRECTOR OF ENGINEERING |                   |

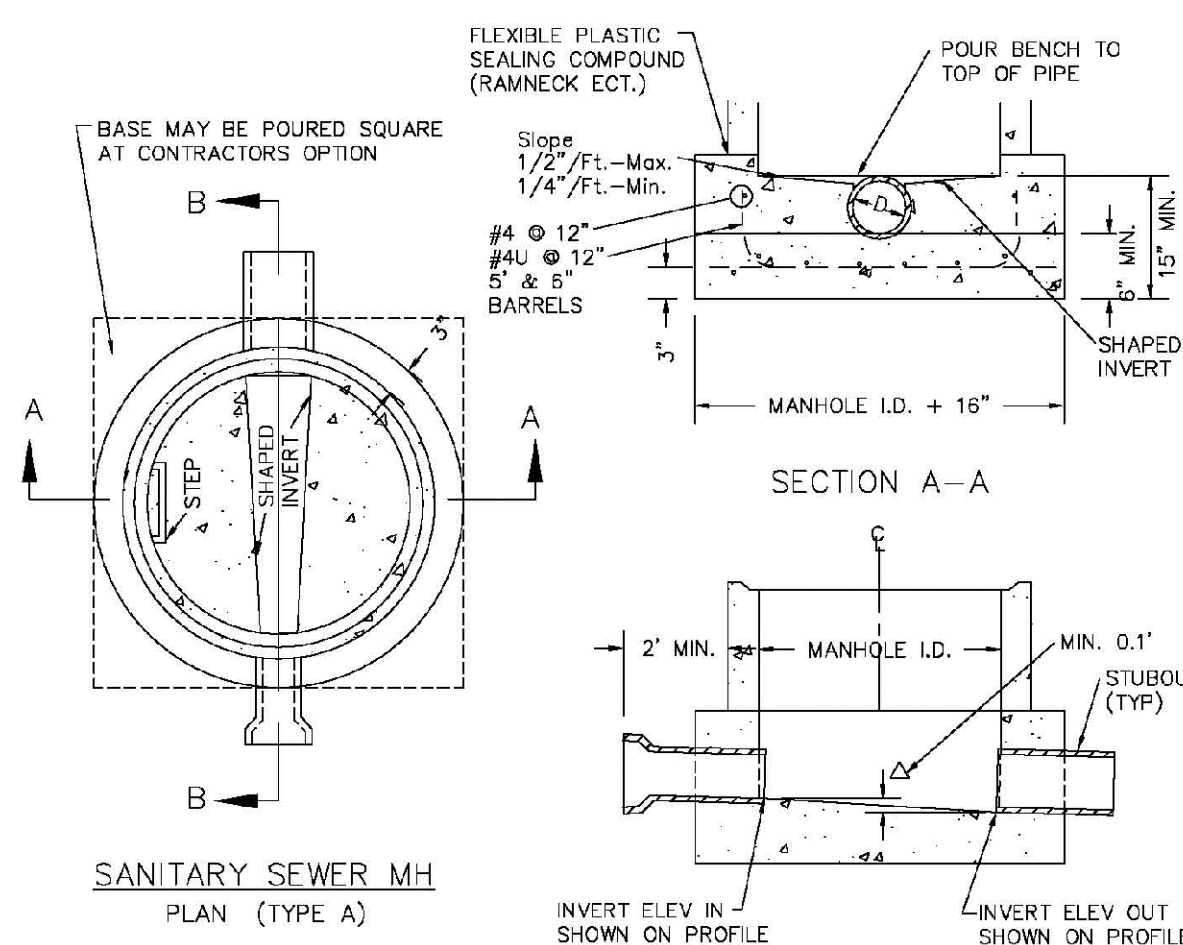
SHEET S3.3



PARKER WATER & SANITATION DISTRICT  
PRECAST MANHOLE  
BASE DETAIL

|                         |             |
|-------------------------|-------------|
| SCALE: NONE             | DATE: 2/96  |
| APPROVED: PVR           | 01/02 10/16 |
| DIRECTOR OF ENGINEERING |             |

SHEET S3.4



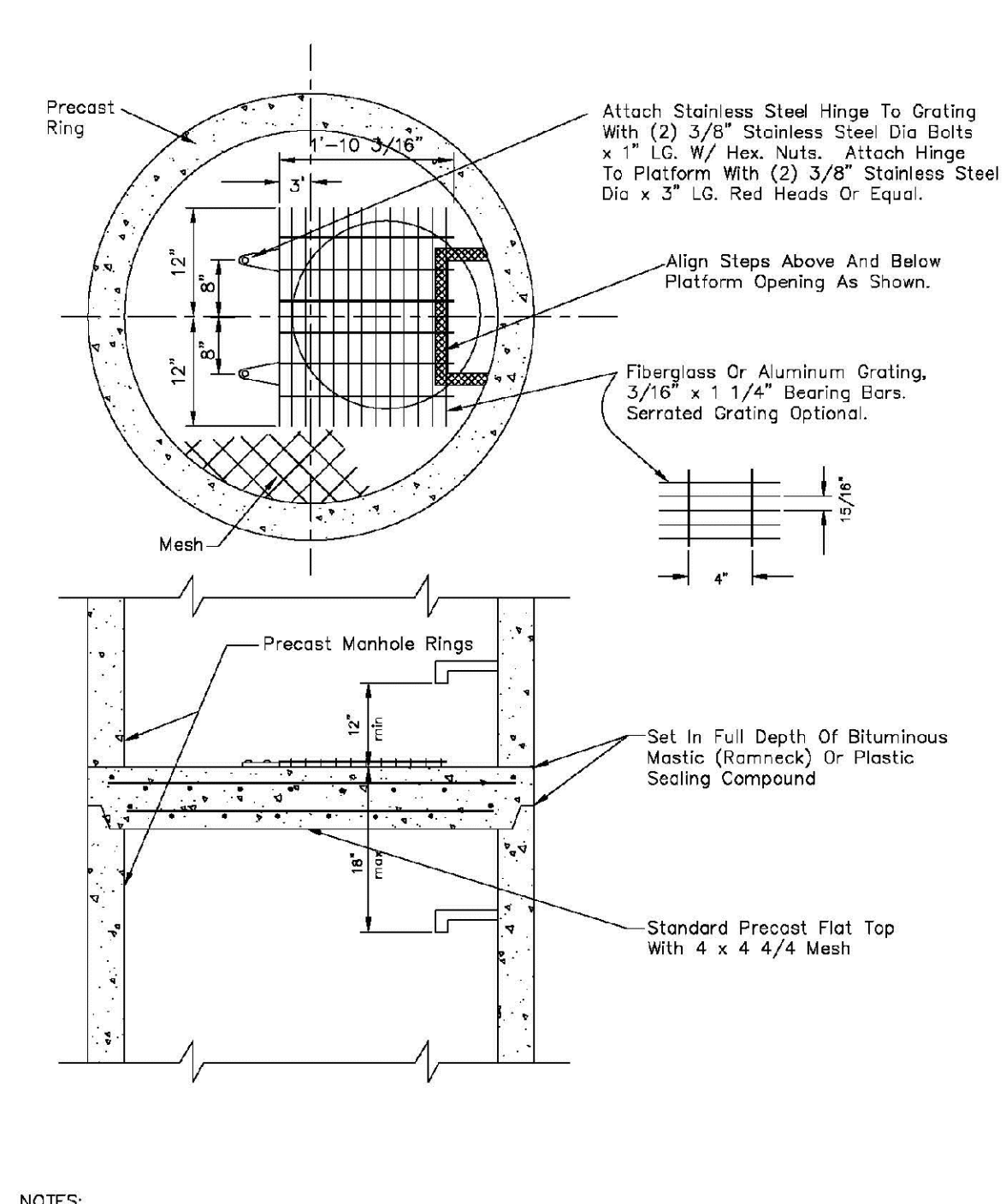
SANITARY SEWER MH  
PLAN (TYPE A)

SECTION A-A

- NOTES:
1. Manhole barrel min. thickness to be 5".
  2. Shaping for smooth manhole inverts may be done by forming or shaping with cement mortar (San. Sewer).
  3. The manhole steps shall conform to District Standards and Specifications.
  4. Precast sections to conform to A.S.T.M. C-478.
  5. All dead-end manholes, that call out a stub out, shall be thru at 0.40% minimum slope.
  6. Stub outs shall extend 2'-0" minimum past manhole O.D. and be satisfactorily plugged.
  7. Reinforcing in base required for manhole.
  8. Slope of bench = 1/2" / FT. - Max. 1/4" / FT. - Min.
  9. Δ = Invert drop thru MH (if Δ > 18", outside drop MH required). Min. 0.1" for all straight through MH and 0.2" for all angled MH.

|                                      |                   |
|--------------------------------------|-------------------|
| PARKER WATER & SANITATION DISTRICT   |                   |
| CAST-IN-PLACE MANHOLE<br>BASE DETAIL |                   |
| SCALE: NONE                          | DATE: 2/96        |
| APPROVED: PVR                        | 01/02 01/16 10/16 |
| DIRECTOR OF ENGINEERING              |                   |

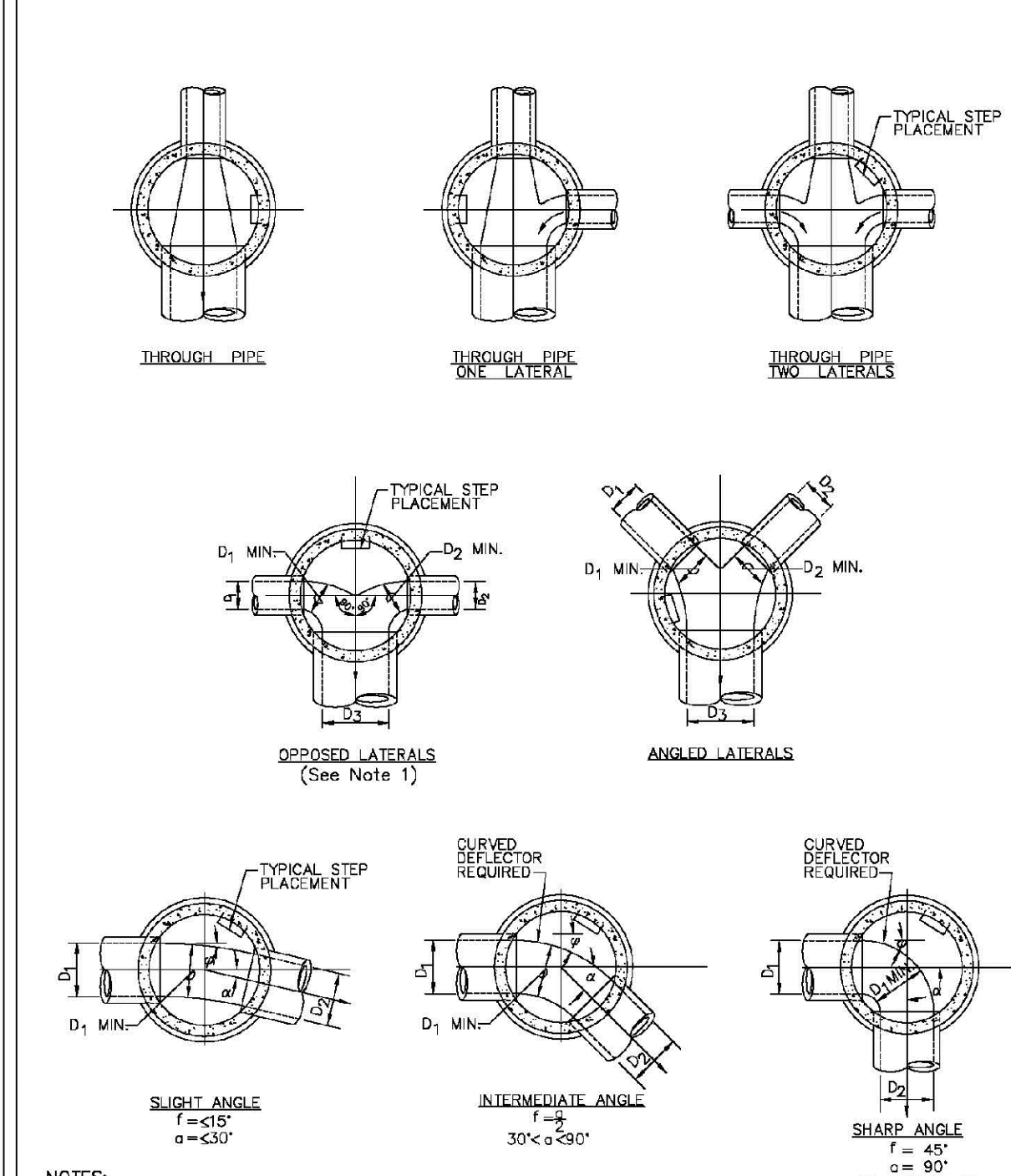
SHEET S3.5



PARKER WATER & SANITATION DISTRICT  
INTERMEDIATE PLATFORM FOR  
MANHOLES OVER 20' DEPTH

|                         |                  |
|-------------------------|------------------|
| SCALE: NONE             | DATE: 2/96       |
| APPROVED: PVR           | 2/00 01/16 10/16 |
| DIRECTOR OF ENGINEERING |                  |

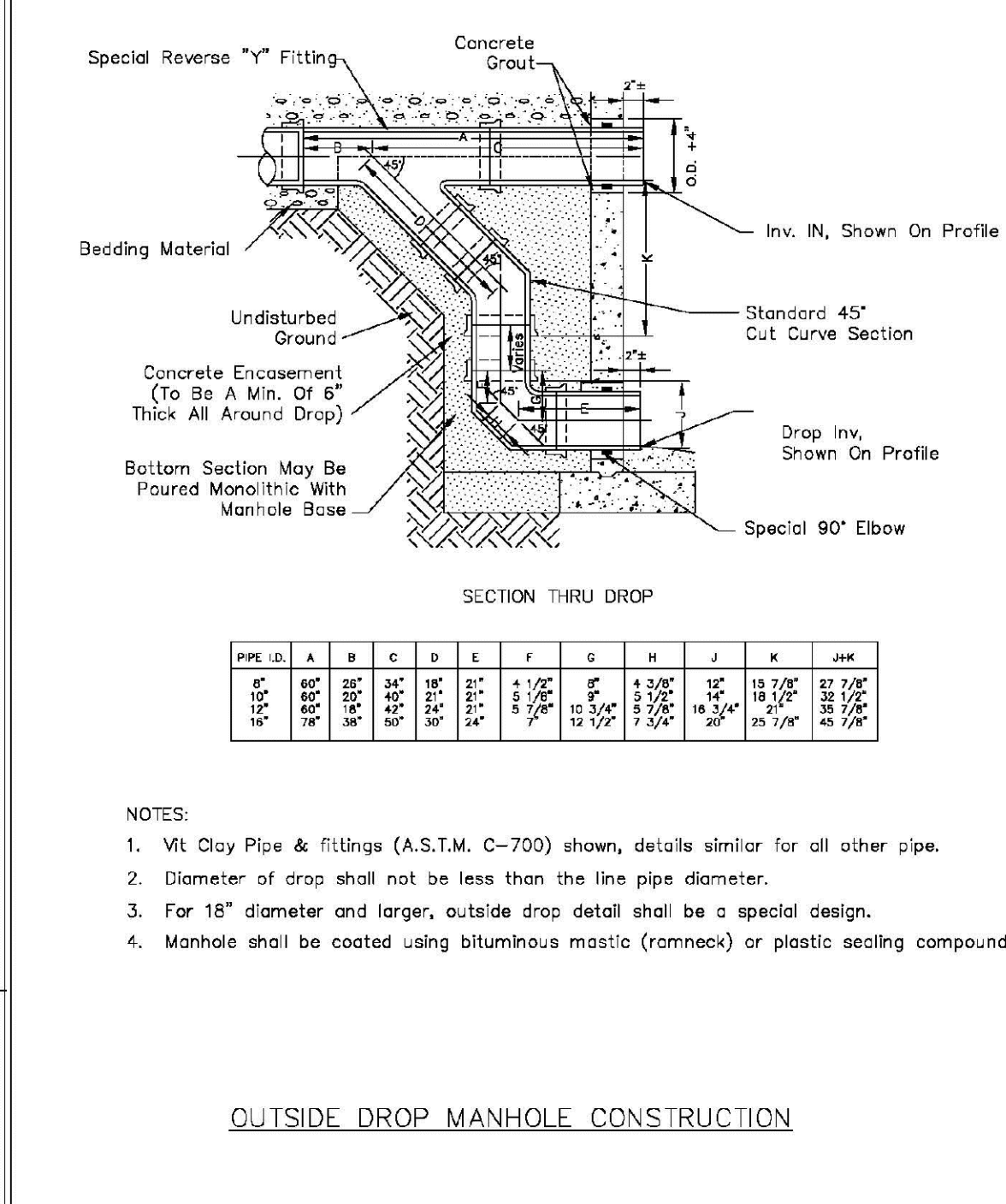
SHEET S3.6



PARKER WATER & SANITATION DISTRICT  
TYPICAL BASE  
CHANNELIZATION DETAILS

|                         |             |
|-------------------------|-------------|
| SCALE: NONE             | DATE: 2/96  |
| APPROVED: PVR           | 01/16 10/16 |
| DIRECTOR OF ENGINEERING |             |

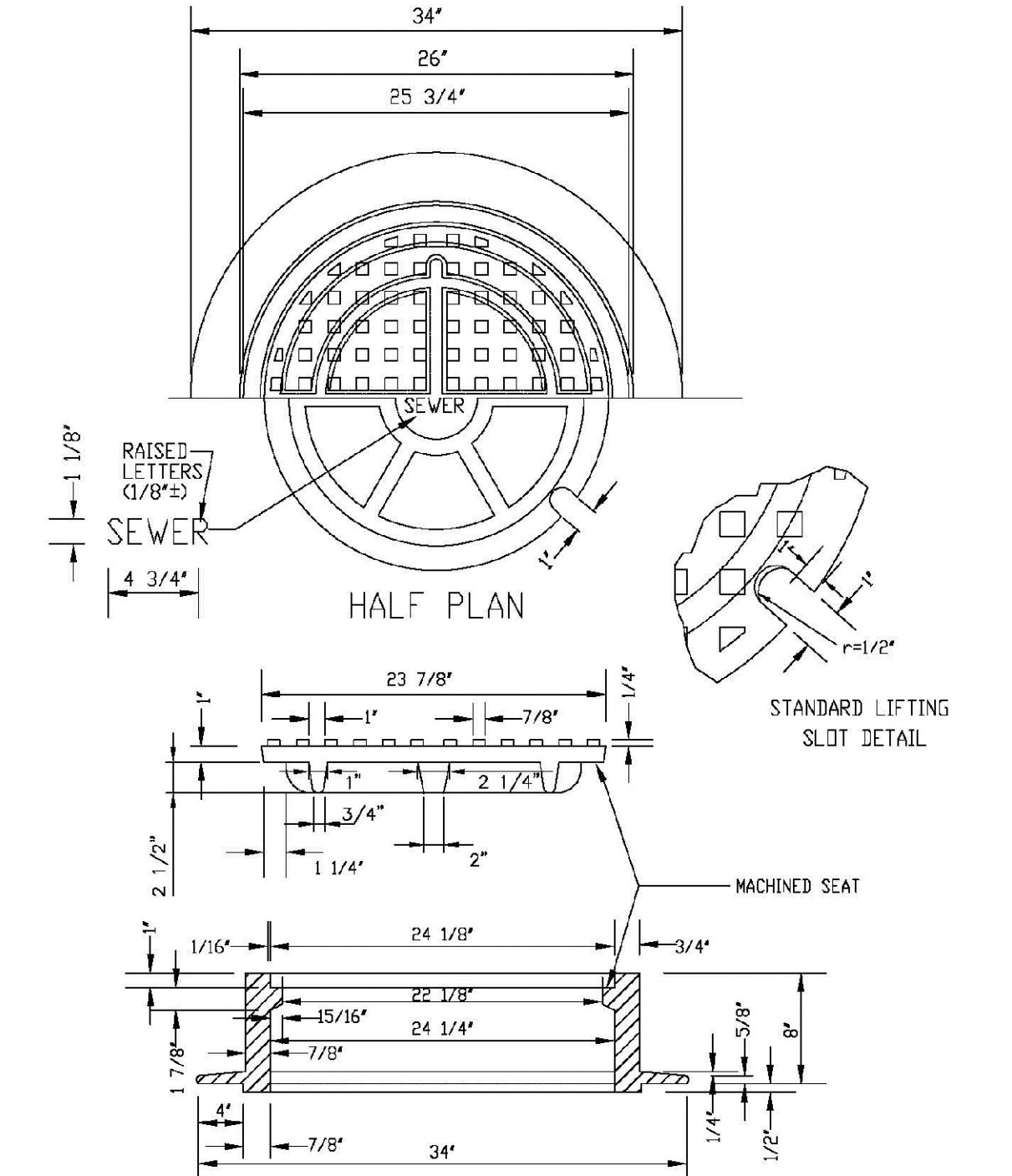
SHEET S3.7



PARKER WATER & SANITATION DISTRICT  
OUTSIDE DROP MANHOLE  
CONSTRUCTION

|                         |             |
|-------------------------|-------------|
| SCALE: NONE             | DATE: 2/96  |
| APPROVED: PVR           | 01/16 10/16 |
| DIRECTOR OF ENGINEERING |             |

SHEET S3.8



PARKER WATER & SANITATION DISTRICT  
24\"/>

|                         |             |
|-------------------------|-------------|
| SCALE: NONE             | DATE: 2/96  |
| APPROVED: PVR           | 01/16 10/16 |
| DIRECTOR OF ENGINEERING |             |

SHEET S3.9

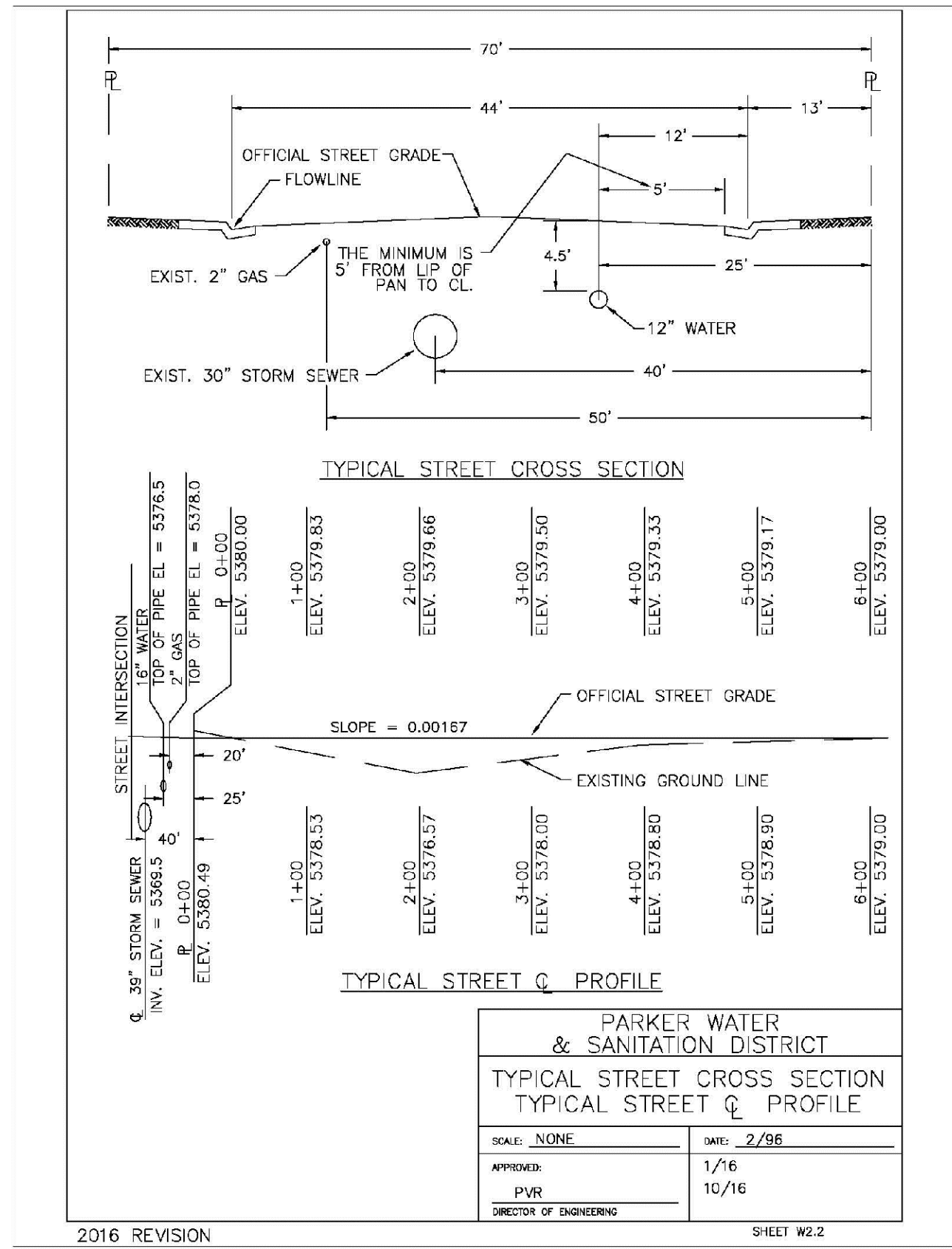
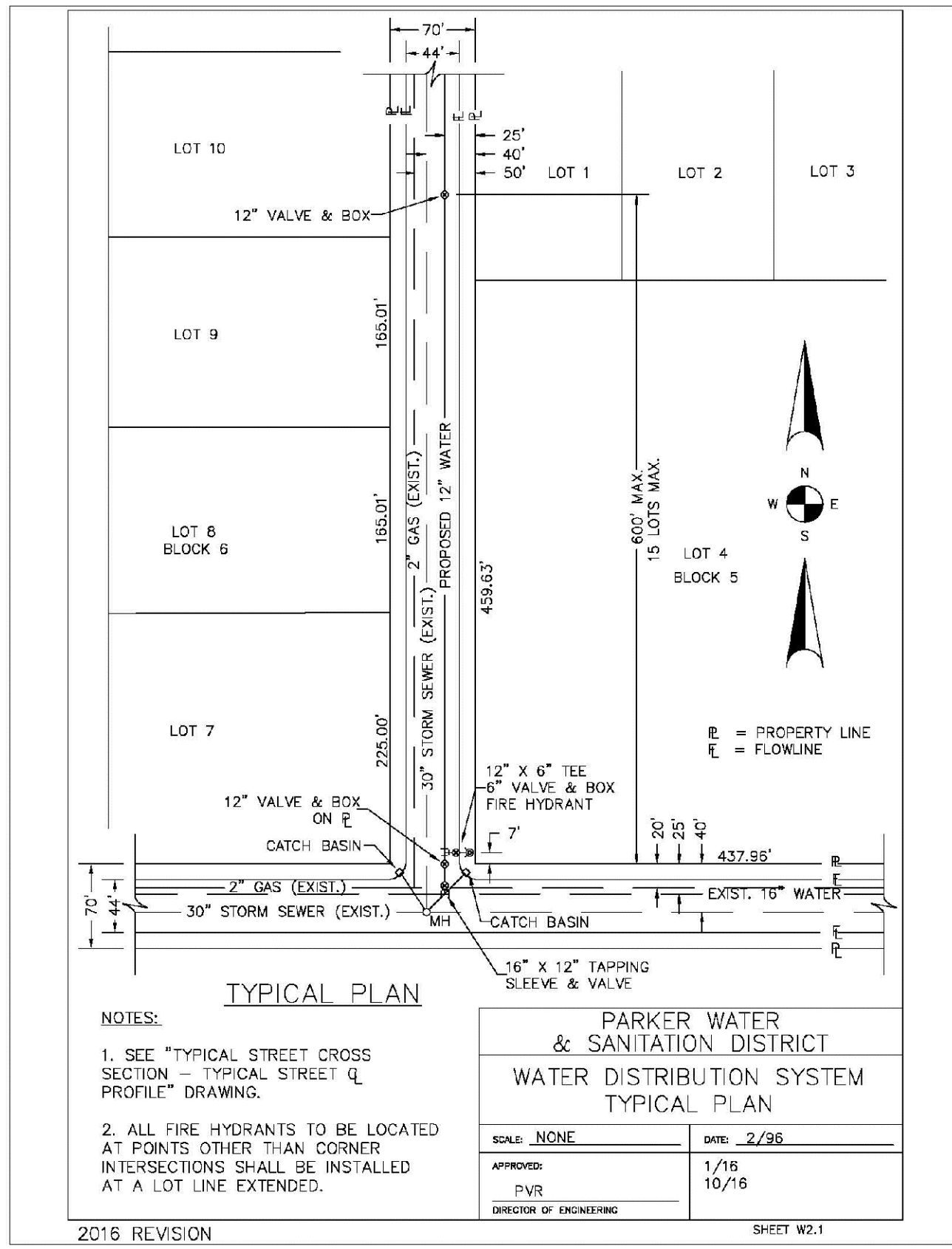
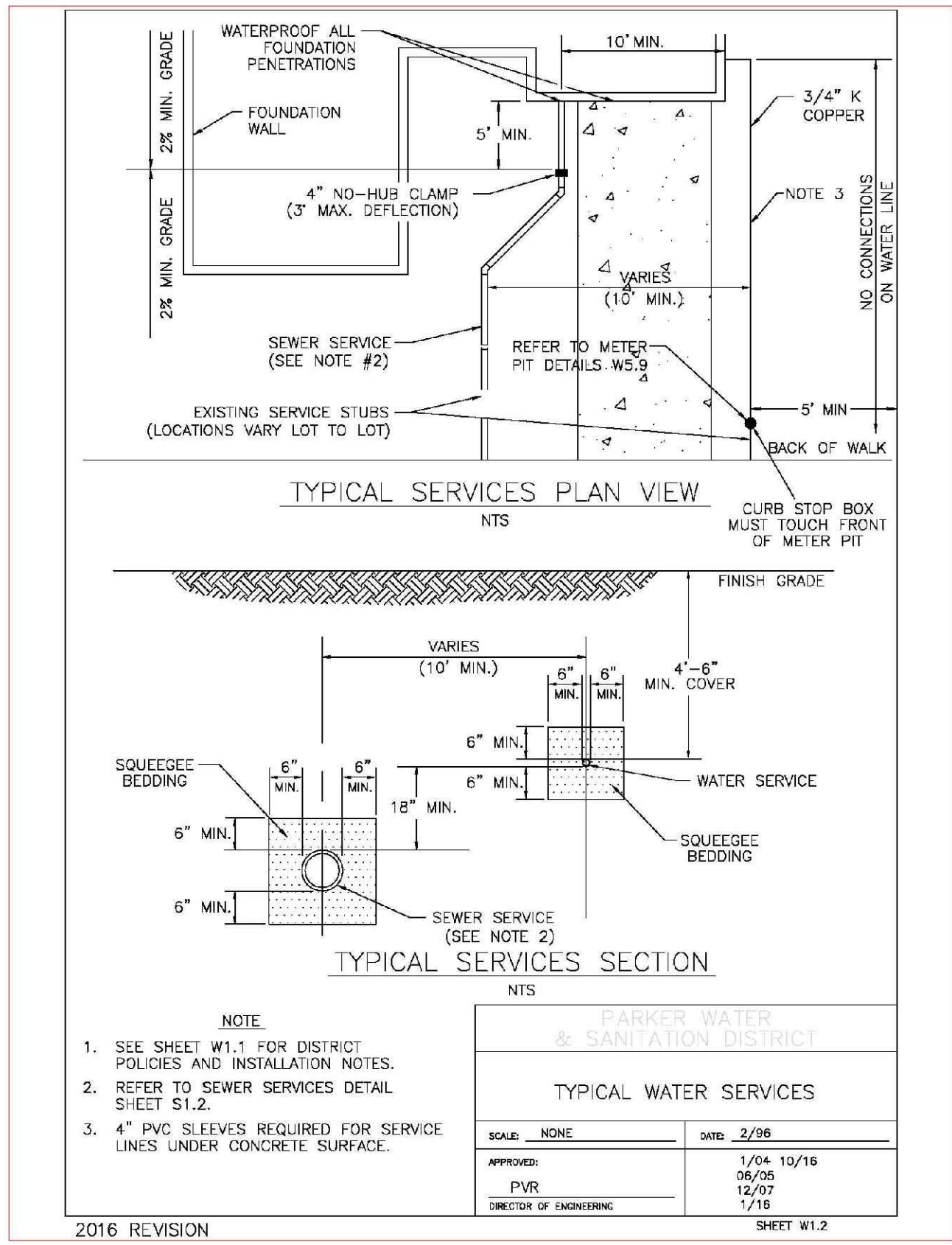
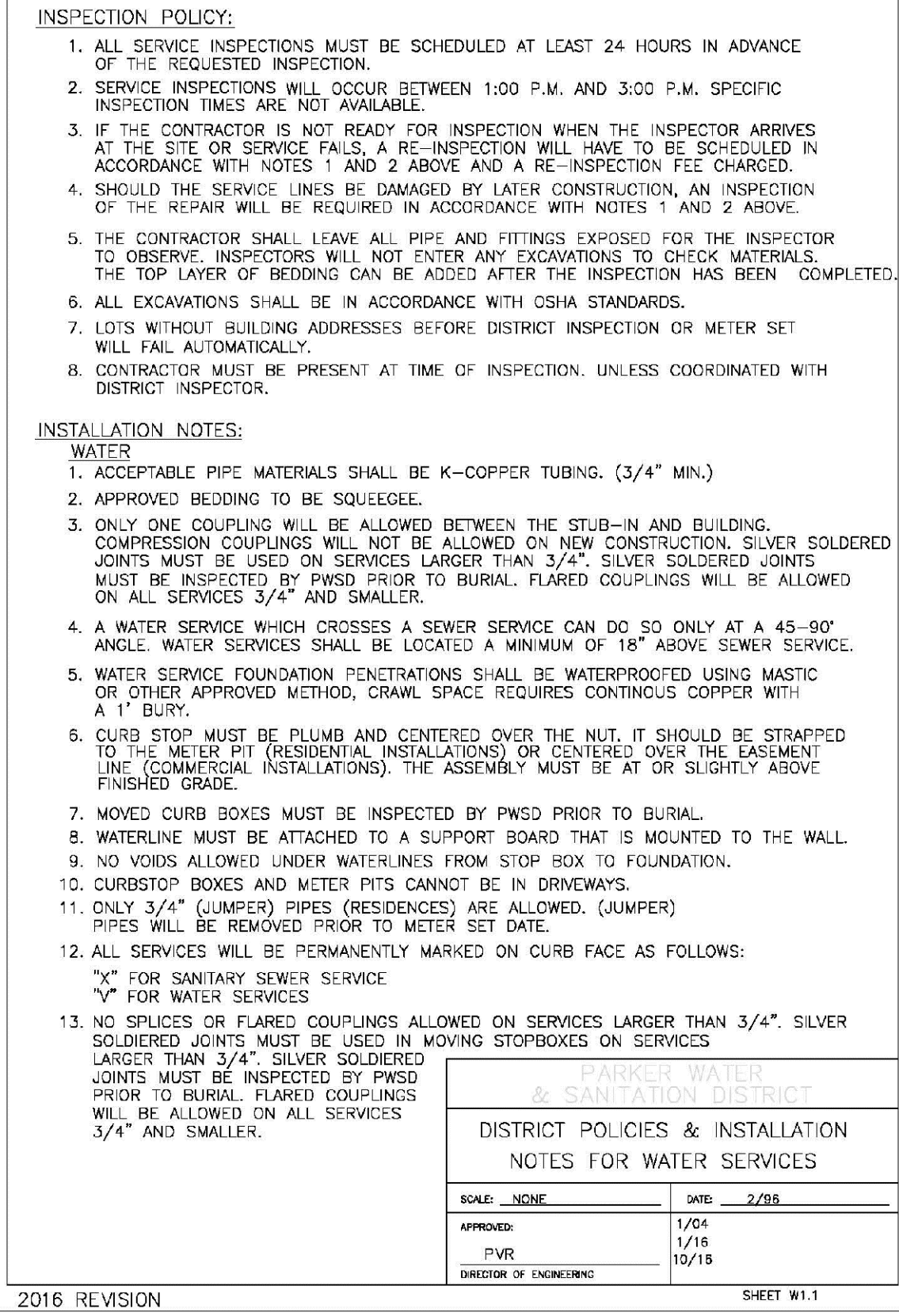
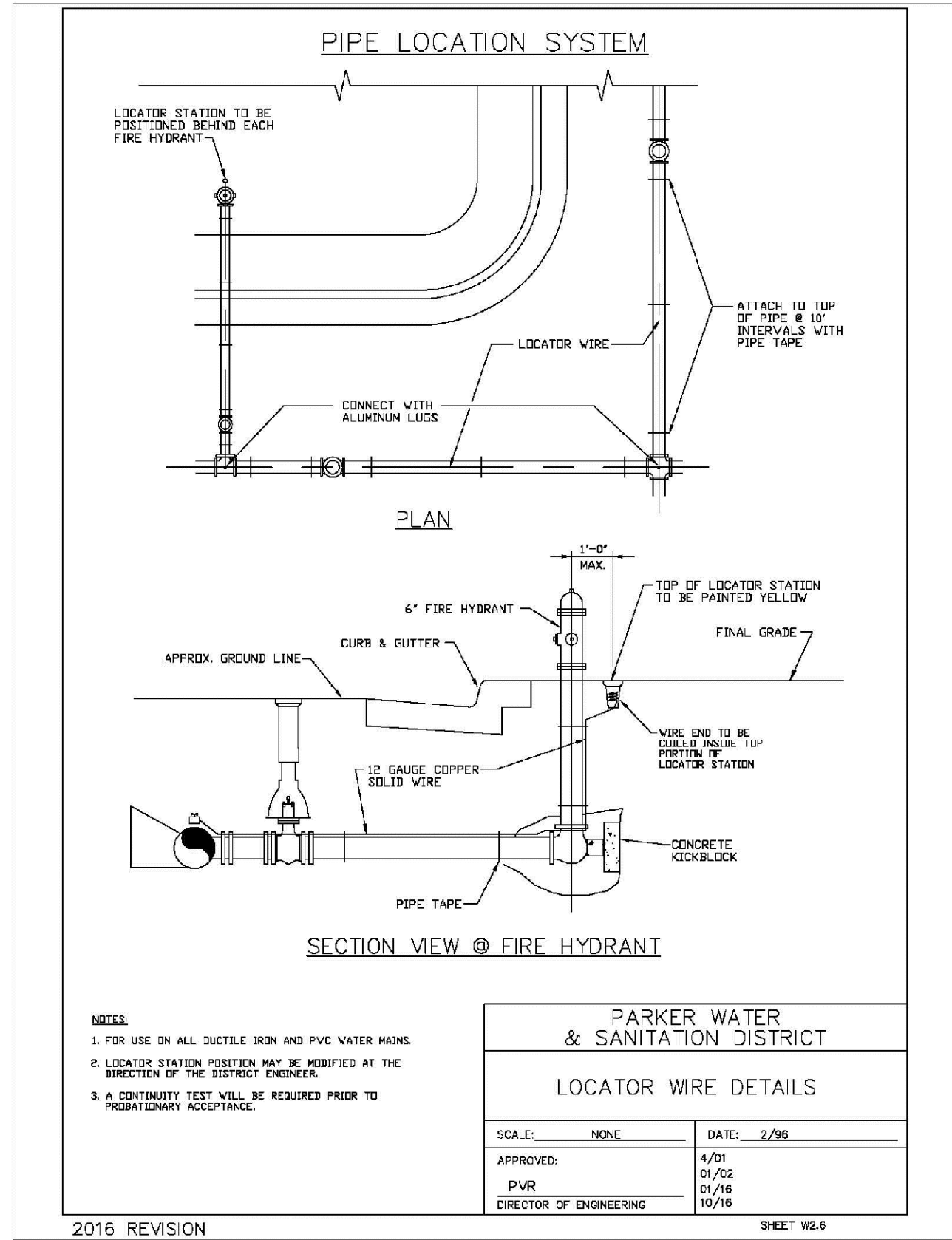
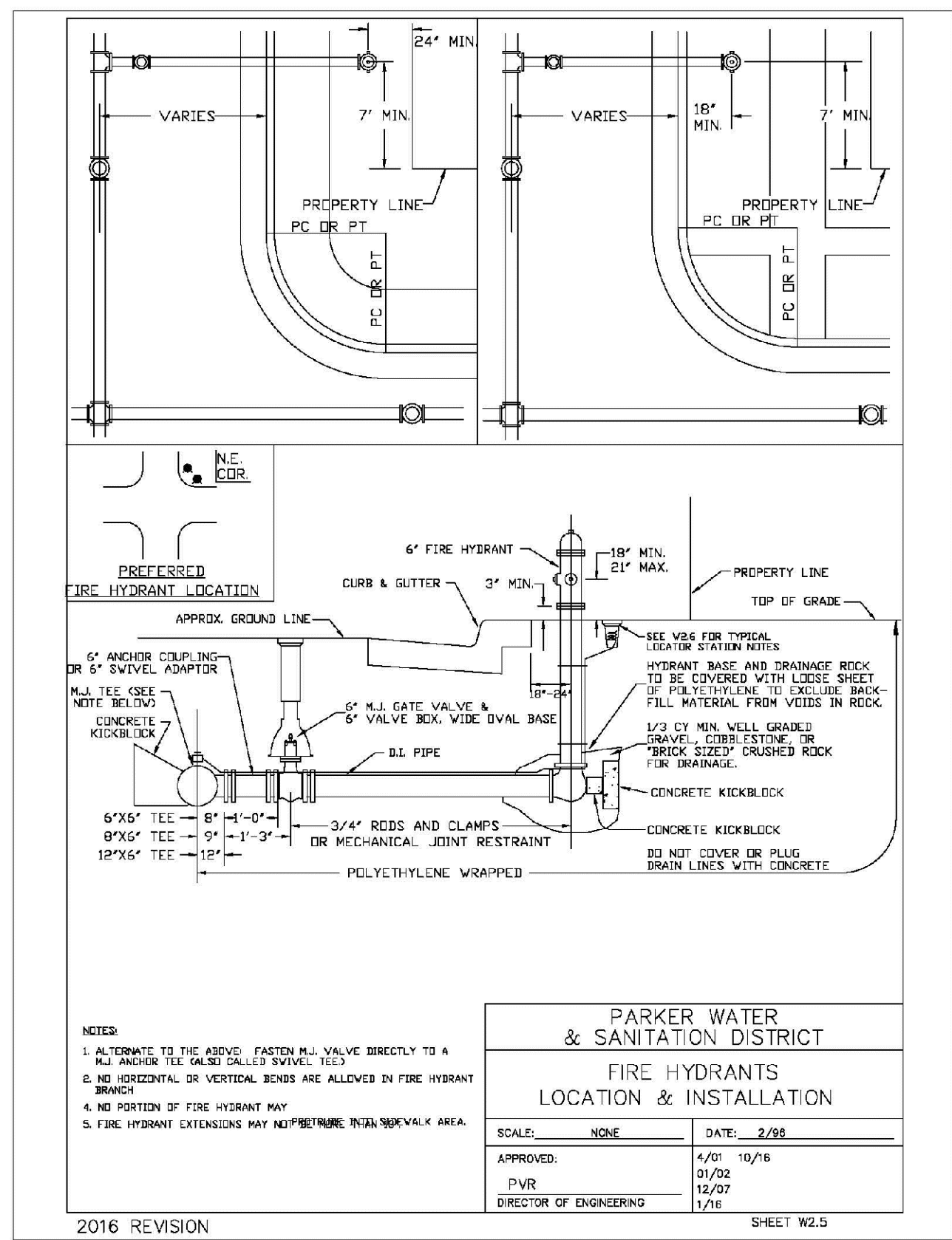
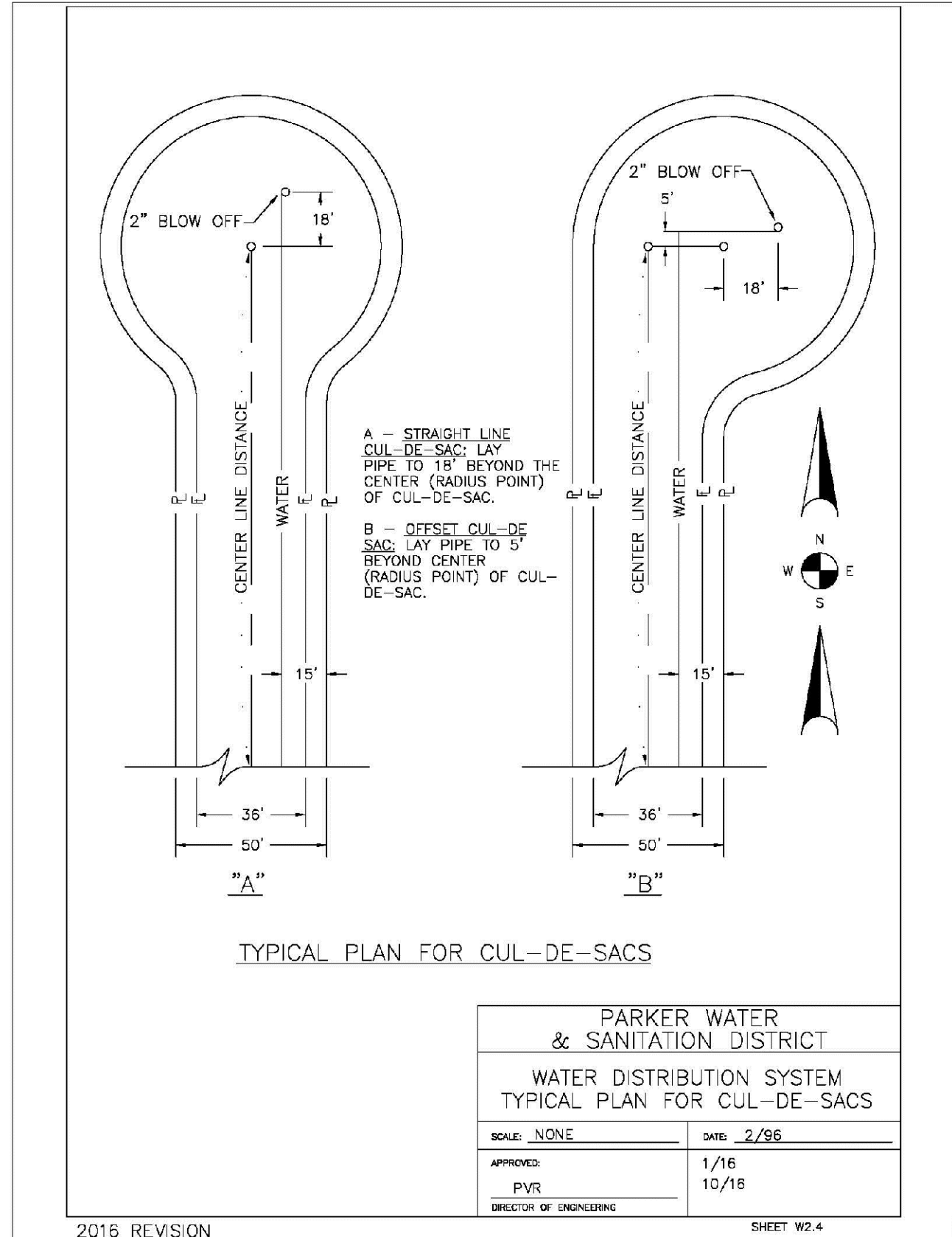
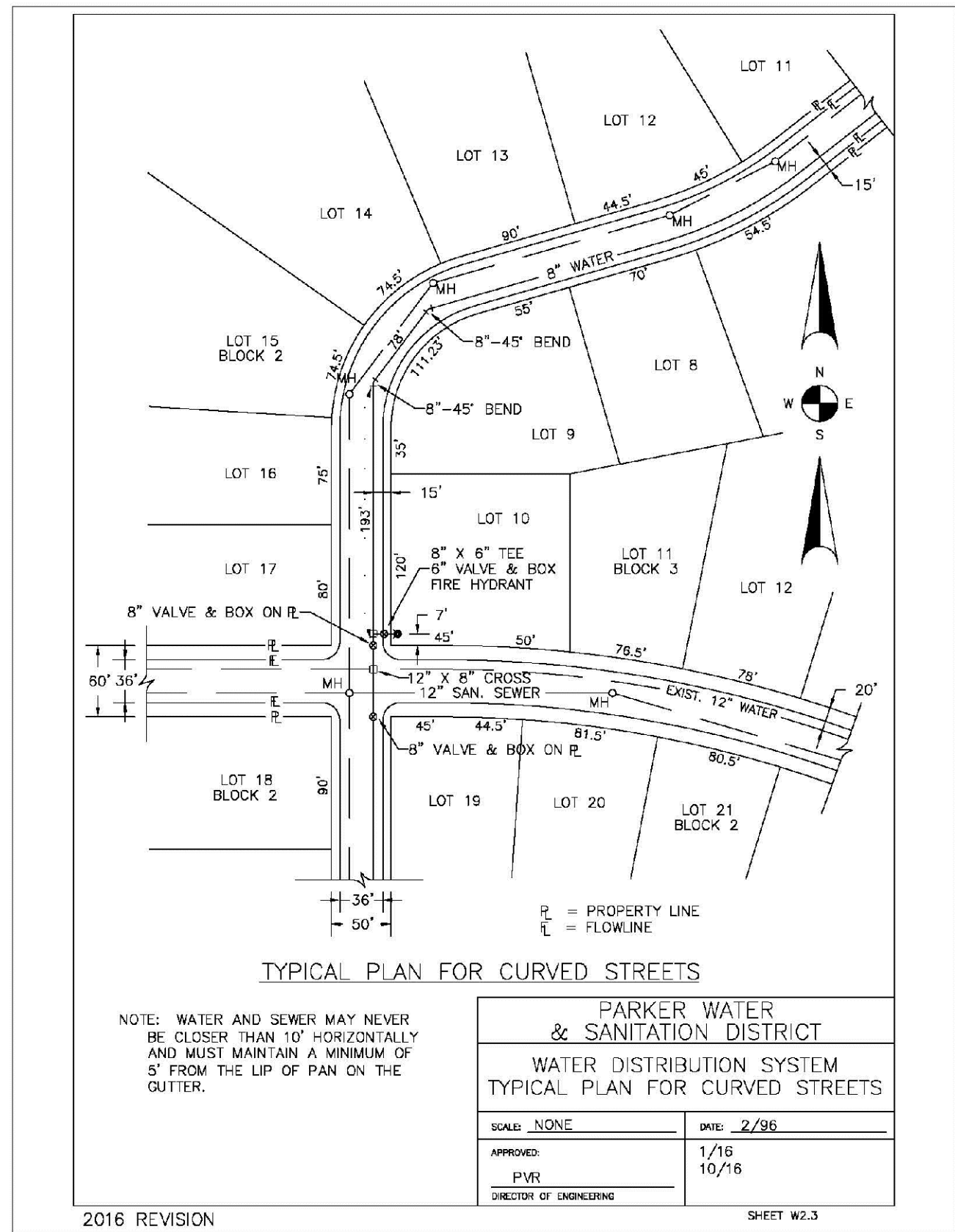




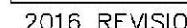
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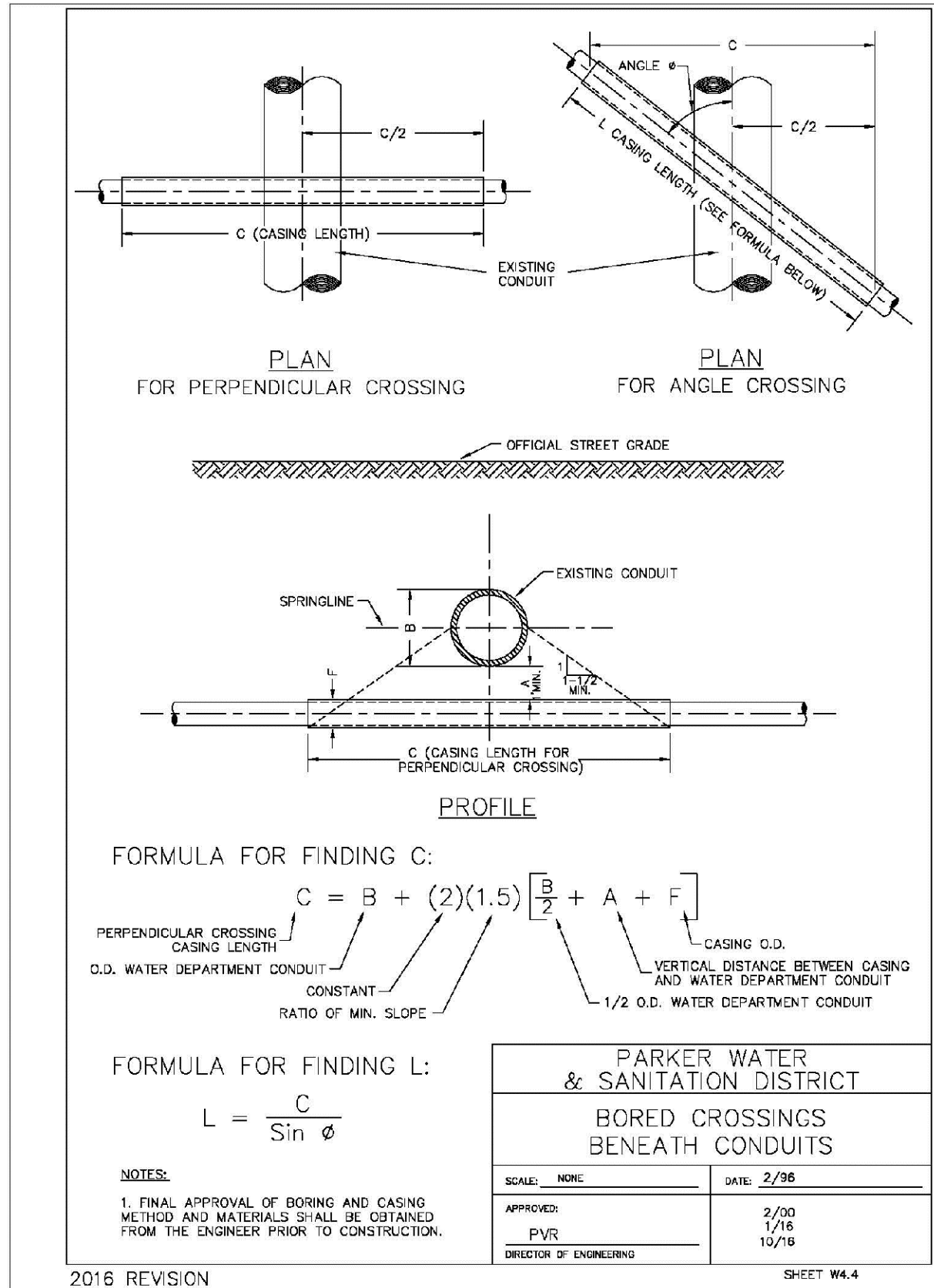
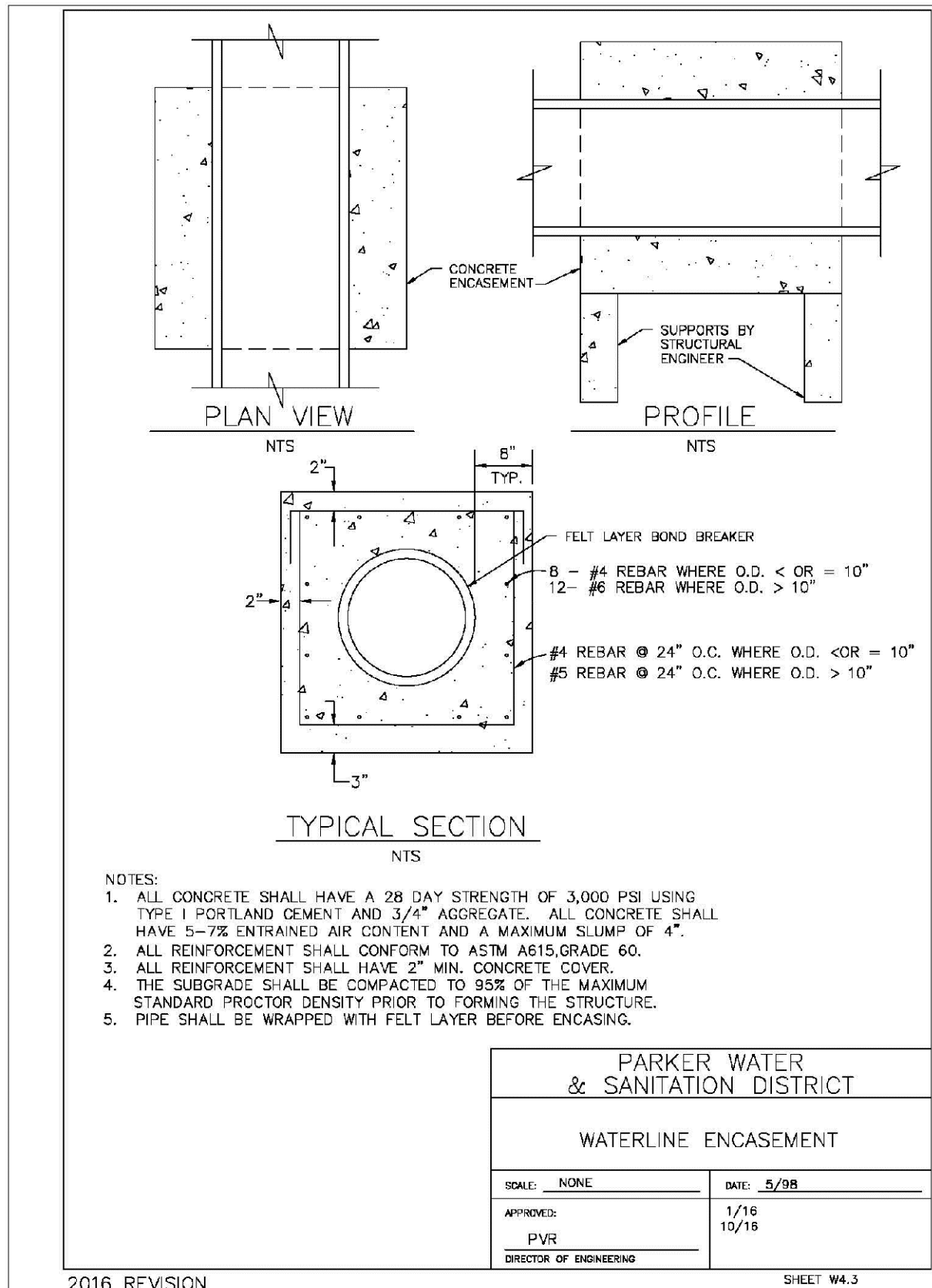
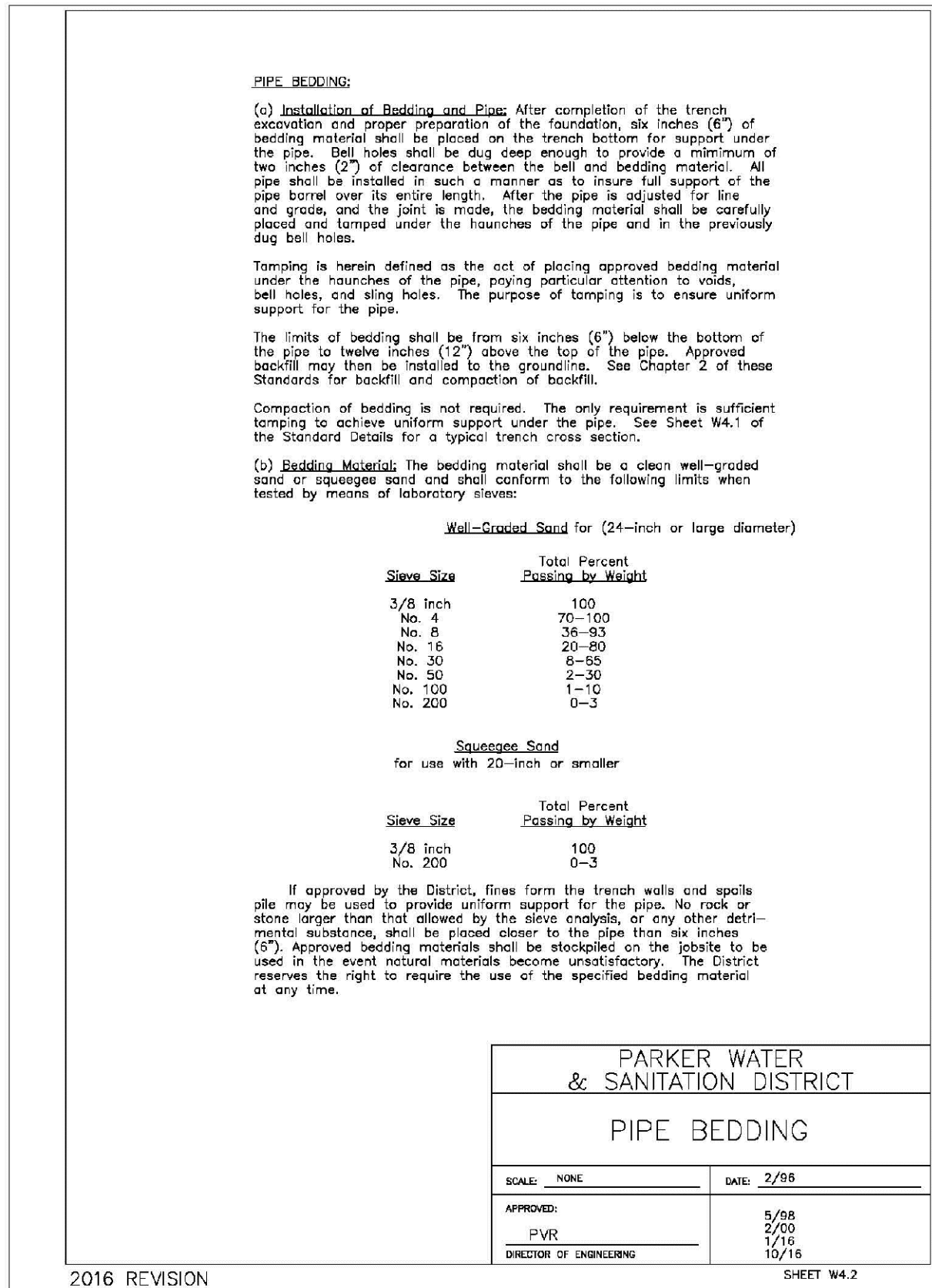
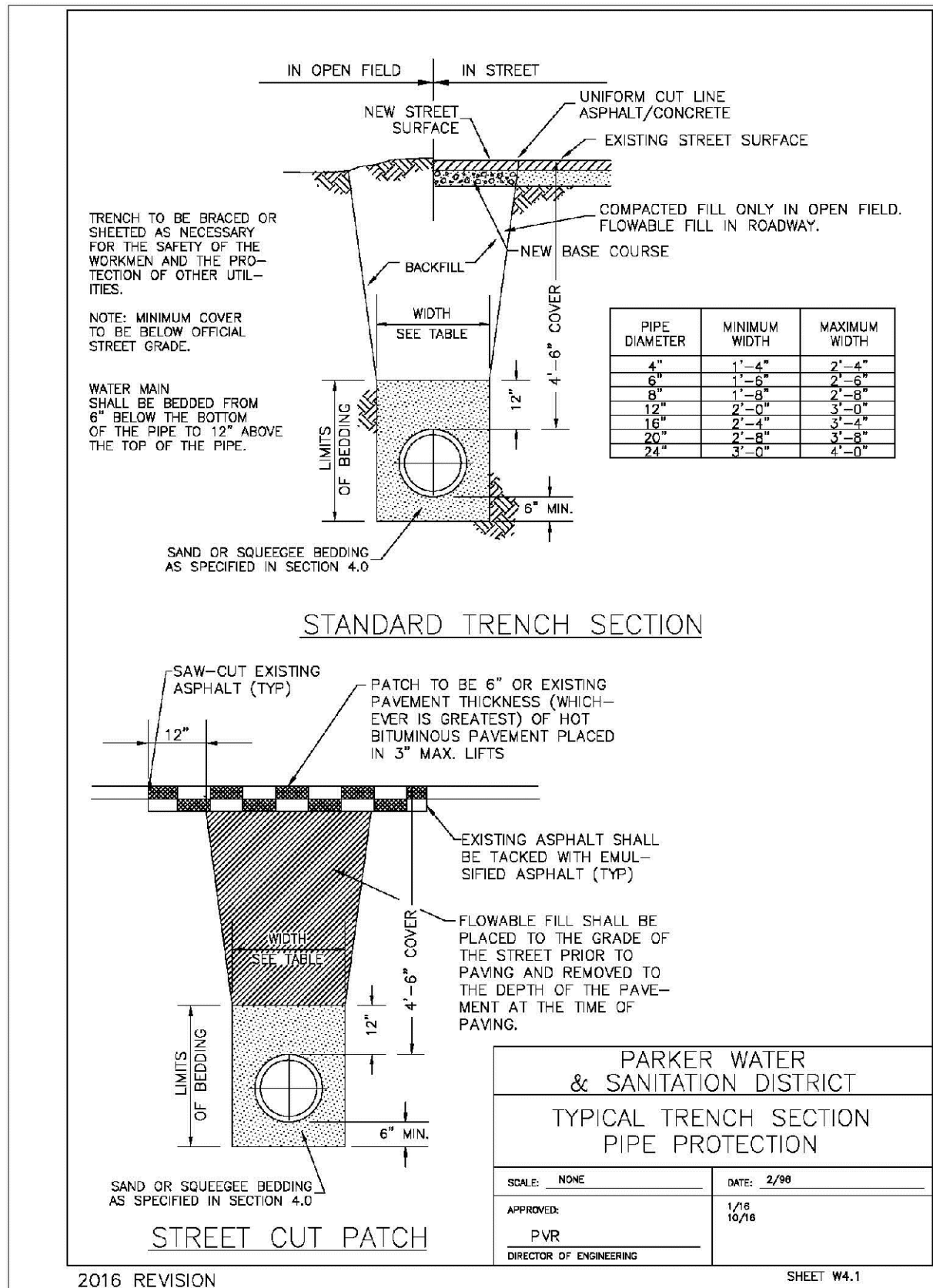
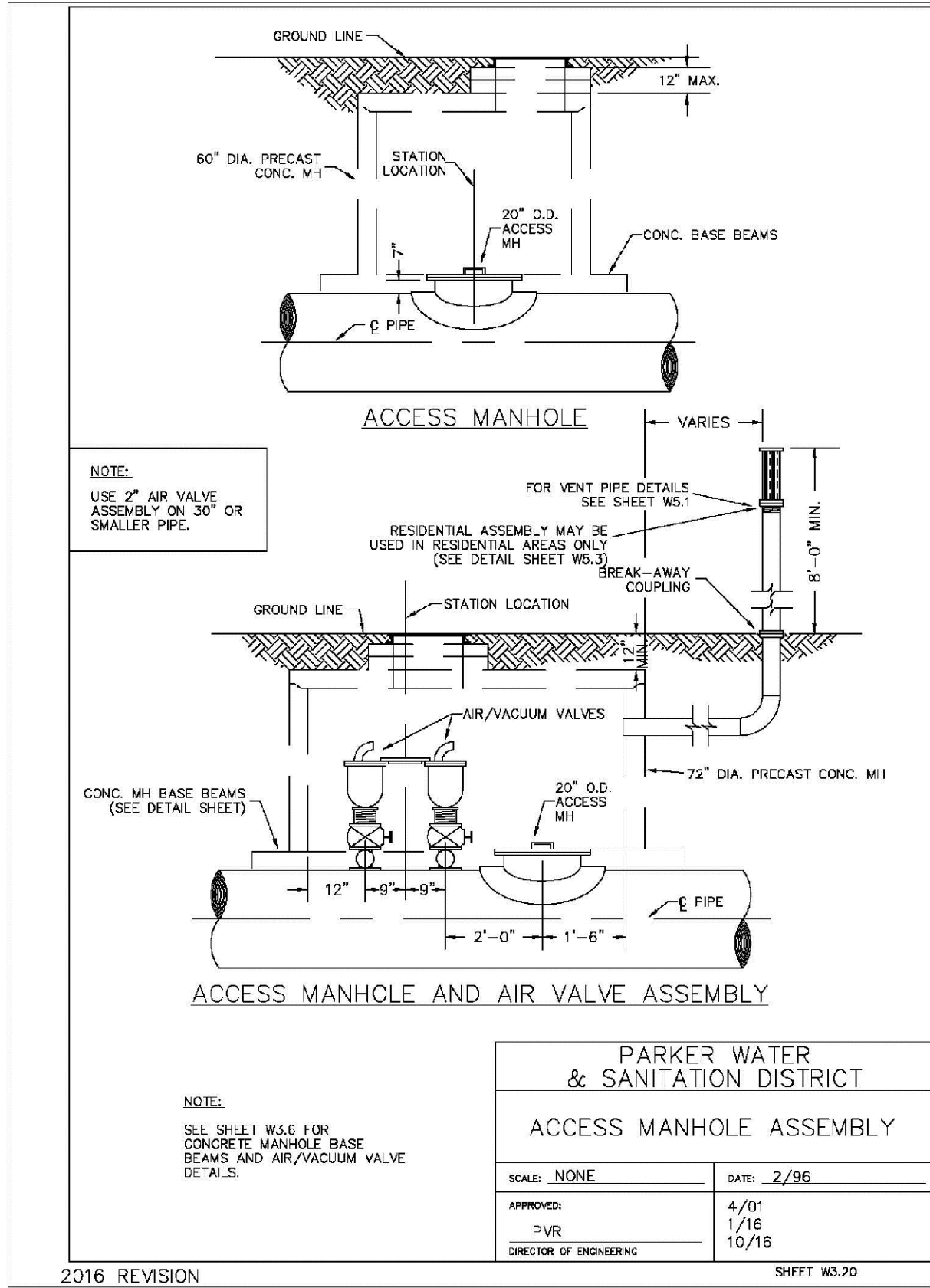
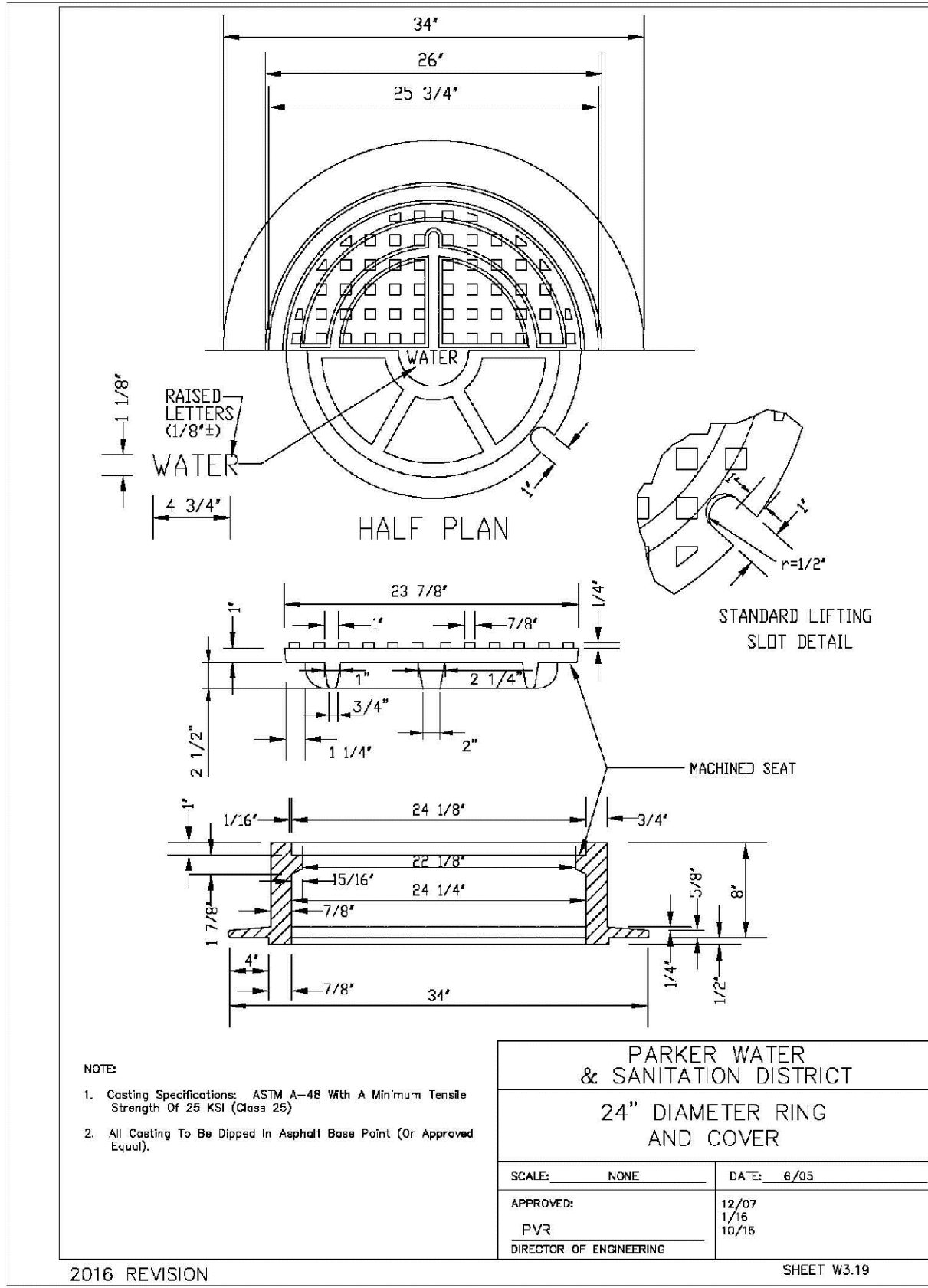
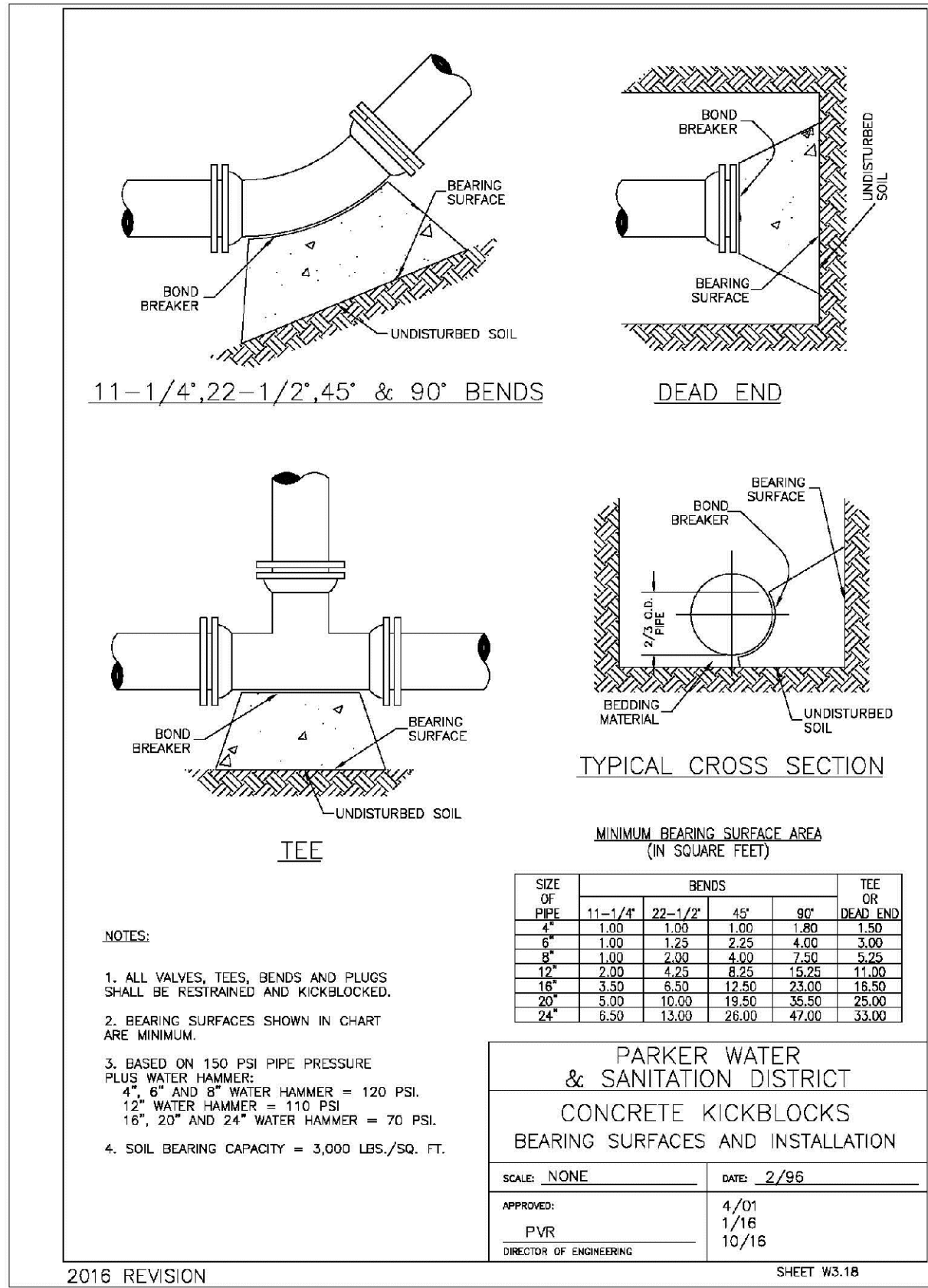
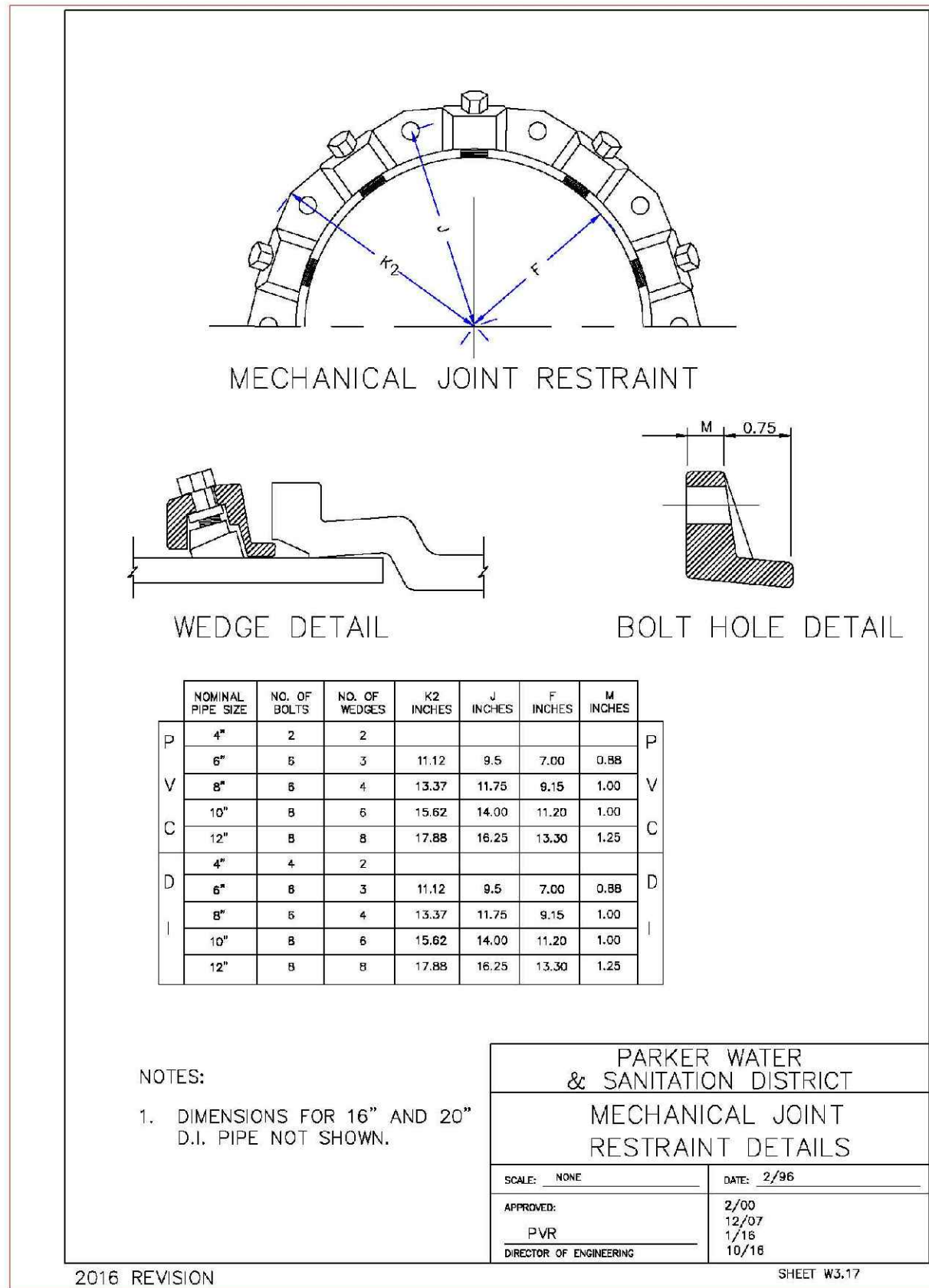


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