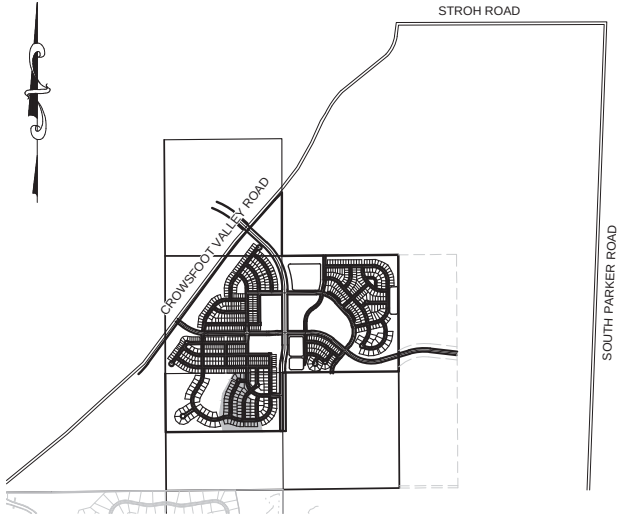


TRAILS AT CROWFOOT FILING 7

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	
Sheet Number	Sheet Title
1	COVER SHEET
2	PARKER WATER AND SANITATION NOTES
3	AREA UTILITY PLAN
4	SANITARY P&P SHASTA DAISY POINT
5	SANITARY P&P SHASTA DAISY POINT
6	SANITARY P&P HOP CLOVER STREET
7	WATER P&P SHASTA DAISY POINT
8	WATER P&P HOP CLOVER STREET
9	SANITARY SEWER DETAILS
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14	WATER DETAILS
15	WATER DETAILS
16	WATER DETAILS
17	WATER DETAILS
18	WATER DETAILS



VICINITY MAP
SCALE: 1" = 2000'

MATERIALS LIST		
DESCRIPTION	QUANTITY	UNIT
8" WATERPIPE (C900)	1,602	L.F.
6" WATERPIPE (DIP-FIRE HYDRANT LINE)	76	L.F.
8" GATE VALVE W/ BOX	1	EA.
6" GATE VALVE W/ BOX	3	EA.
8" MISC. VALVES	11	EA.
AIR/VAC VALVE	2	EA.
FIRE HYDRANT WITH 6" LEAD	3	EA.
CONNECTION TO EXISTING MAIN	4	EA.
WATER SERVICE LATERAL W/ WATER METER AND PIT	49	EA.
8" SEWER (SDR-35 PVC)	1,116	L.F.
4' DIA. MANHOLE	8	EA.
SEWER SERVICE LATERAL W/ WYE TAP	49	EA.
CONNECTION TO EXISTING MAIN	5	EA.

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: _____

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 _____

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.

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



N:\PROJECTS\SHSS RANCH\ENGINEERING\SHSS SET\SCDS\F\PARKER WATER AND SANITATION\F7 COVER.DWG, CDD\A, 3/7/2018 4:37 PM

SHEET NUMBER	DRAWN BY:	CHECKED BY:	DATE:	SCALE:	TRAILS AT CROWFOOT FILING 7 CONSTRUCTION DRAWINGS COVER SHEET				Revisions			
					AS SHOWN	FILE NO:	No.		Date	Init.	Appr.	Date
1	KJD	JJD	AUGUST 2017	8130283701								

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GENERAL NOTES:

1. ALL CONSTRUCTION SHALL COMPLY WITH PARKER WATER AND SANITATION DISTRICT SPECIFICATIONS.
2. 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.
3. 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.
4. THE DISTRICT ENGINEER AND OTHER APPROVING AGENCIES ARE TO BE NOTIFIED AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
5. THE CONTRACTOR SHALL OBTAIN, AT HIS EXPENSE, ALL PERMITS THAT ARE NECESSARY TO PERFORM THE PROPOSED WORK.
6. ALL CONCRETE SHALL BE A MINIMUM OF CLASS A, 6 SACK, TYPE II, 3000-POUND COMPRESSION STRENGTH.
7. 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.
8. ALL BACKFILL MATERIAL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY. COMPACTION TESTS MUST BE SUBMITTED TO DISTRICT ENGINEER PRIOR TO PROBATIONARY ACCEPTANCE.
9. TRENCHES SHALL BE EXCAVATED AND THE PIPE EXPOSED FOR THE INSPECTION AT ANY LOCATION ON THE PROJECT IF SO ORDERED BY THE INSPECTOR.
10. 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.
11. 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.
12. 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.
13. ALL SERVICES WILL BE PERMANENTLY MARKED ON CURB FACE AS FOLLOWS: "X" FOR SANITARY SERVICE SEWERS "V" FOR WATER SERVICES
14. NO TREES SHALL BE ALLOWED IN EASEMENTS OR WITHIN 8' OF ANY WATER OR SANITARY SEWER MAINS IN RIGHT OF WAY.
15. 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:

1. 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.
2. ALL WATER MAINS SHALL BE PER PWSO MATERIALS SPECIFICATIONS.
3. 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.
4. THERE SHALL BE A MINIMUM COVER OF 4.5 FEET OVER ALL WATER MAINS.
5. 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
6. ALL BENDS, TEES, FIRE HYDRANTS, BLOW-OFFS AND PLUGS AT DEAD END MAINS SHALL BE PROTECTED FROM THRUST BY USING CONCRETE THRUST BLOCKS.
7. 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.
8. 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 PERMATAX NO.1 (RED). THE CHLORINATION OF ANY FINISHED PIPELINE SHALL BE DONE PRIOR TO THE HYDROSTATIC TESTING.
9. 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 FOURTH IN THE PARKER WATER AND SANITATION DISTRICT STANDARDS AND SPECIFICATIONS.
10. 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.
11. 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.
12. 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.
13. 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.
14. 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.
15. 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.
16. 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.
17. ALL PIPE LENGTHS ARE APPROXIMATE.
18. 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:

1. ALL SANITARY SEWER CONSTRUCTION SHALL CONFORM TO THE PARKER WATER AND SANITATION DISTRICT SPECIFICATION.
2. 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.
3. 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.
4. 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.
5. 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.
6. NO UNDERDRAIN SYSTEM WILL BE ALLOWED TO BE PLACED IN MAINLINE OR SEWER SERVICE TRENCHES.
7. 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.
8. ALL MANHOLES SHALL BE 48-INCHES IN DIAMETER WITH 24-INCH RING AND COVER, ECCENTRIC CONE UNLESS OTHERWISE SPECIFIED.
9. PIPE BEDDING SHALL BE CLASS "B" AND SHALL CONFORM TO ASTM C-33 OR D-448 GRADATION NO. 6 OR NO. 67.
10. 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.
11. ALL PIPE LENGTHS ARE APPROXIMATE.
12. 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.
13. ALL MANHOLES SHALL HAVE SHAPED INVERTS.
14. 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.
15. 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.
16. 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:

1. 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.
2. 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.
3. 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.



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 1,799.2870 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



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HR 935 LLC
7353 South Allion Way
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TRAILS AT CROWFOOT
FILING 7 CONSTRUCTION DRAWINGS
PARKER WATER AND SANITATION NOTES

SCALE:
AS SHOWN

DRAWN BY:
KJD

CHECKED BY:
JW

DATE:
AUGUST 2017

SHEET NUMBER

2

NO.

Revisions

Init.

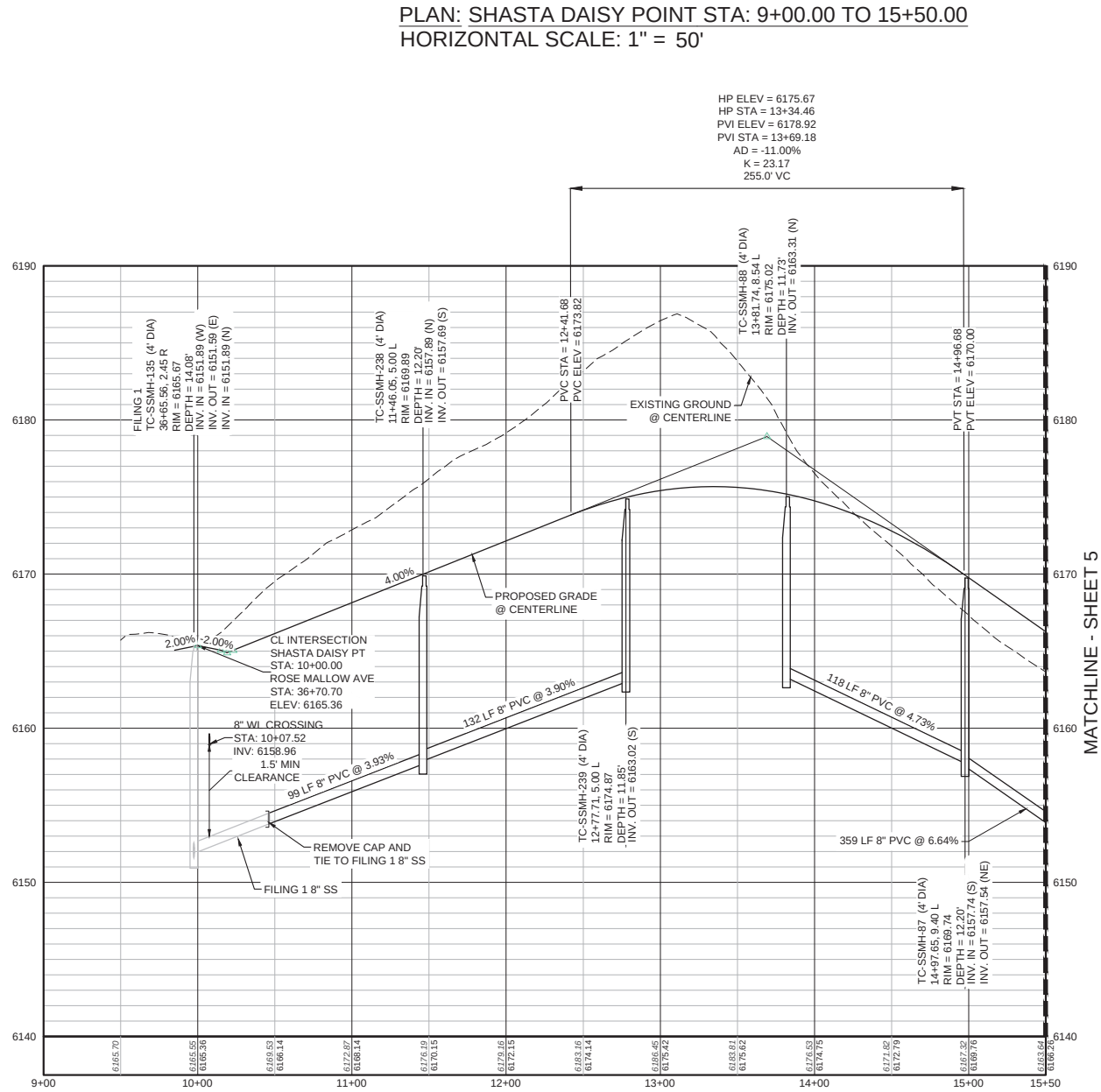
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Date

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BENCHMARK
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PREPARED UNDER THE SUPERVISION OF



BRIAN P. WILSON
COLORADO P.E. 0050067

2

BLOCK NUMBER

A

LOT TYPE

6

LOT NUMBER

8

PROPOSED BUTTERFLY VALVE

1

PROPOSED CAP WITH END OF LINE BLOWOFF

2

PROPOSED REDUCER

3

PROPOSED VALVE

4

PROPOSED FIRE HYDRANT

5

PROPOSED WL FITTING WITH THRUST BLOCK

6

PROPOSED FLARED END SECTION

7

PROPOSED LOW POINT BLOW-OFF

8

PROPOSED AIR VALVE

9

FUTURE PHASE VALVE

10

FUTURE FIRE HYDRANT

11

PROPOSED LIGHT POLE

12

PROPOSED SIDEWALK

13

PROPOSED SIDEWALK RAMP

14

EXISTING ELEVATION

15

PROPOSED DESIGN ELEVATION

16

PROPOSED STORM DRAIN INLET

17

PROPOSED STORM DRAIN MANHOLE

18

PROPOSED RANGE POINT

19

CENTERLINE

20

RIGHT-OF-WAY

21

PROPERTY LINE

22

EDGE OF PAVEMENT

23

PROPOSED DIRECTION OF FLOW

24

PROPOSED SLOPE & DIRECTION

25

EXISTING 5' CONTOUR

26

EXISTING 1' CONTOUR

27

PROPOSED 5' CONTOUR

28

PROPOSED 1' CONTOUR

29

PROPOSED STORM DRAIN

30

PROPOSED SEWER LINE WITH MANHOLE

31

PROPOSED SEWER LATERAL

32

PROPOSED WATER LATERAL W/ METER

33

SECTION LINE

34

FILING BOUNDARY

35

EXISTING FIBER

36

EXISTING OPTIC LINE

37

EXISTING OVERHEAD POWER

38

EXISTING TELEPHONE LINE

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

RCP

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

SHEET NUMBER

4

DRAWN BY:

KJD

CHECKED BY:

JU

DATE:

AUGUST 2017

SCALE:

AS SHOWN

FILE NO.:

8130283701

TRAILS AT CROWFOOT

FILING 7 CONSTRUCTION DRAWINGS

SANITARY SEWER PLAN AND PROFILE

SHASTA DAISY POINT

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7353 South Alton Way

CENTENNIAL, CO 80112

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Suite 240

Englewood, CO 80112

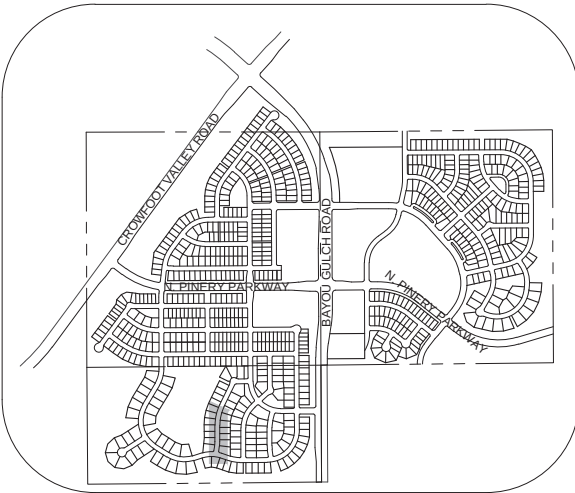
Tel: (720) 882-9528

Fax: (720) 882-9546

CVL

CONSULTANTS

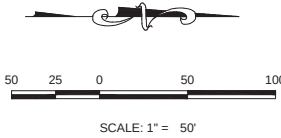
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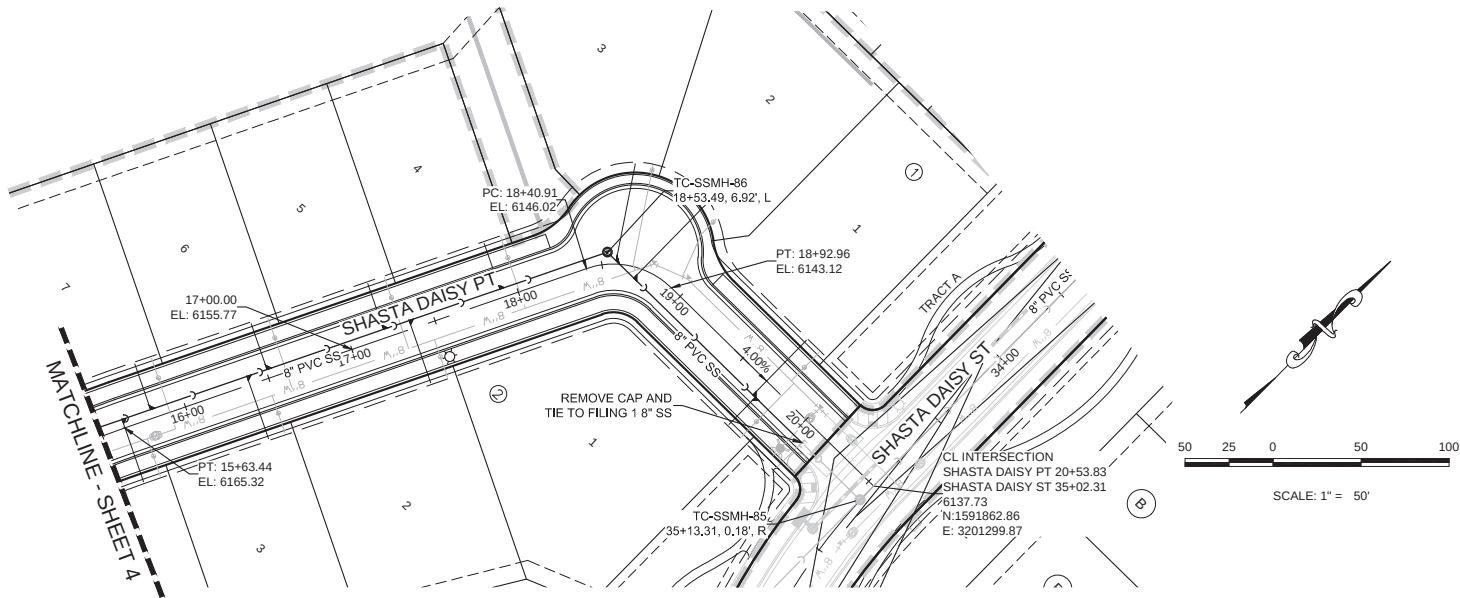


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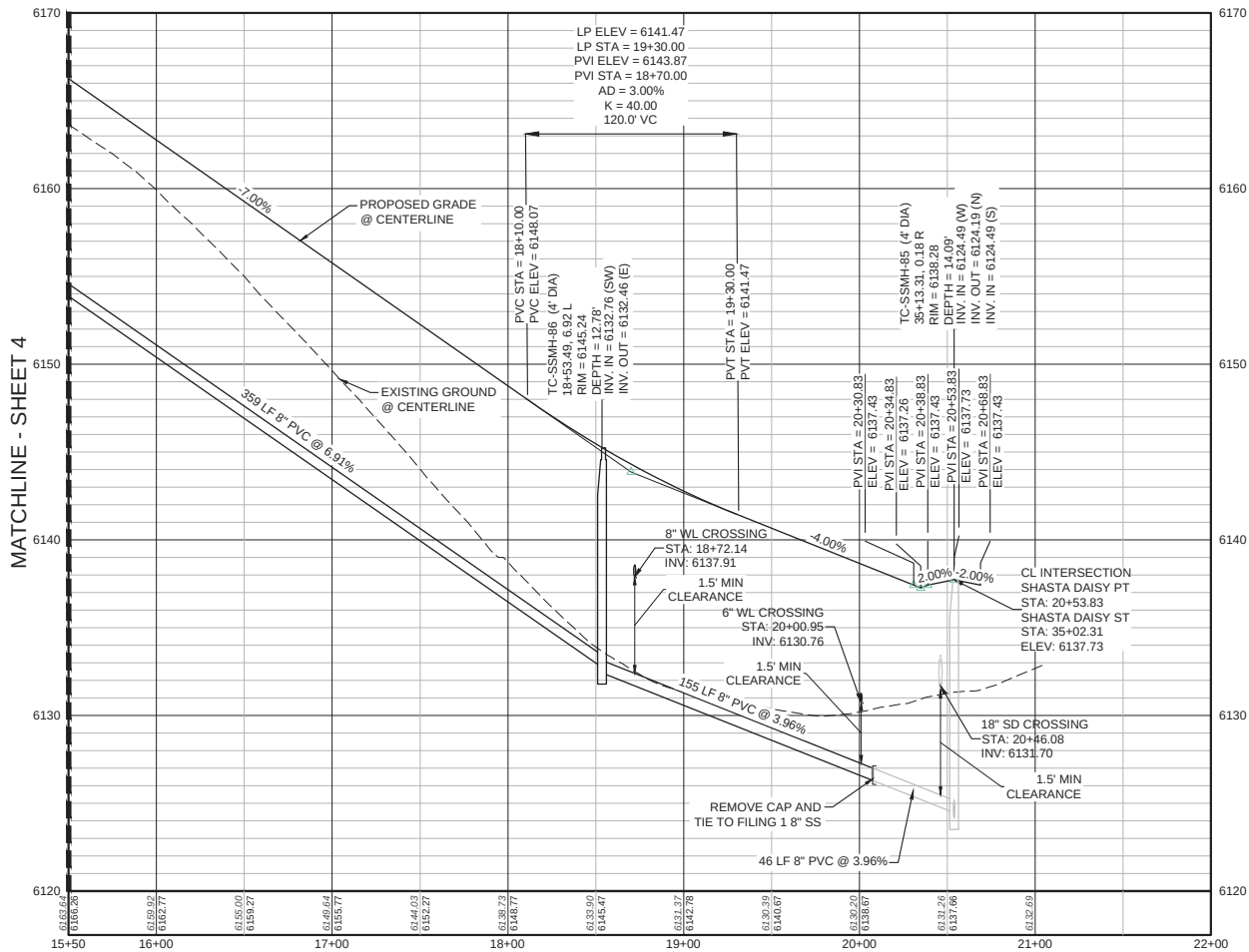
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LEGEND

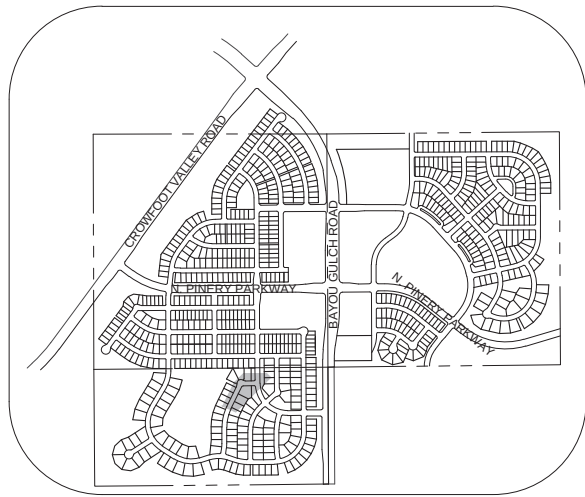




PLAN: SHASTA DAISY PT STA: 15+50.00 TO 22+00.00
HORIZONTAL SCALE: 1" = 50'



PROFILE: SHASTA DAISY PT STA: 15+50.00 TO 22+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



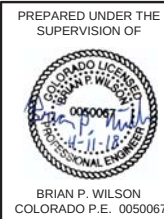
KEYMAP
N.T.S.
LEGEND

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 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

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

BASIS OF BEARINGS:
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.



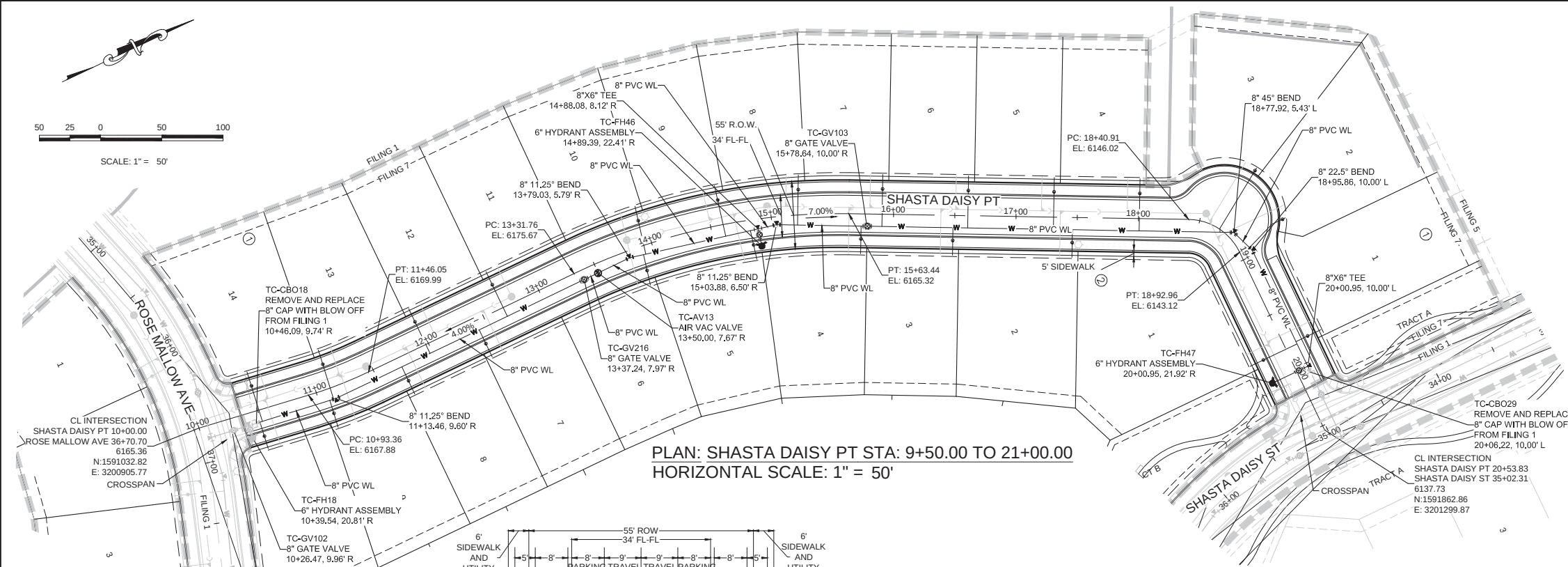
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TRAILS AT CROWFOOT
FILING 7 CONSTRUCTION DRAWINGS
SANITARY SEWER PLAN AND PROFILE
SHASTA DAISY POINT

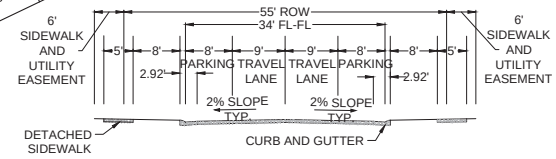
HR 935 LLC
7353 South Allin Way
CENTENNIAL, CO 80112



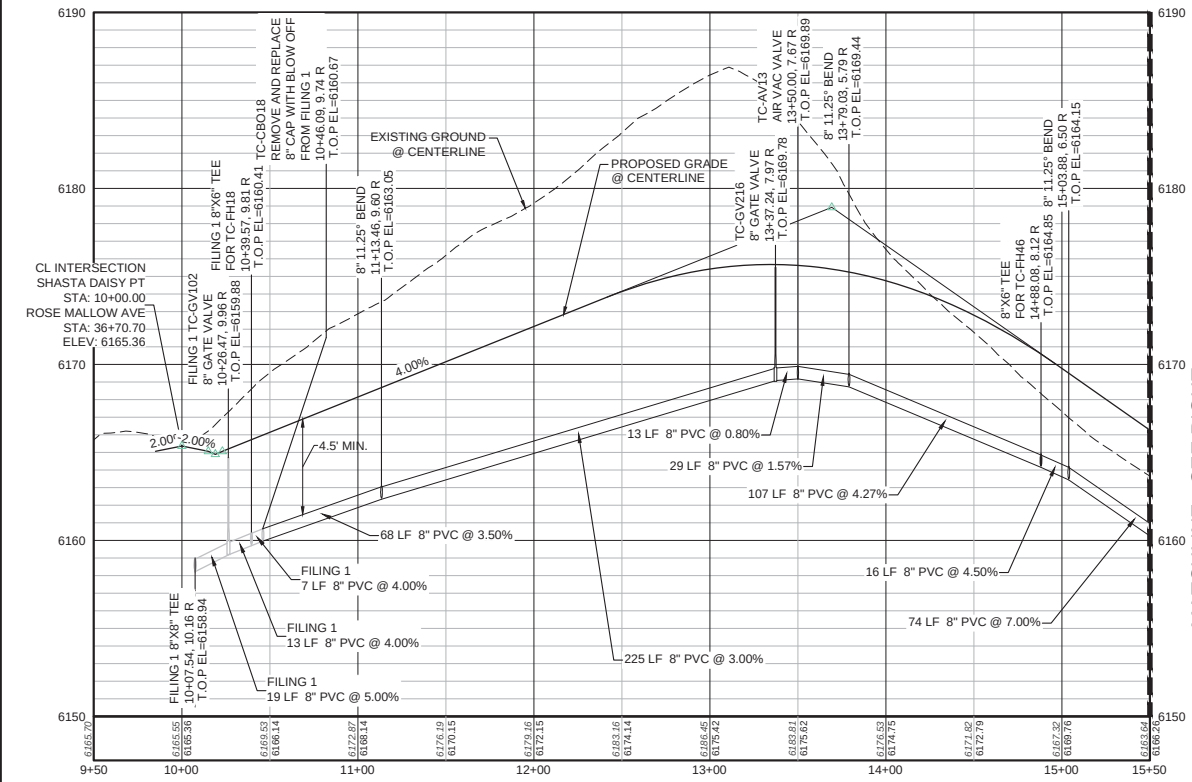
10333 E. Dry Creek Rd.
Suite 240
Englewood, CO 80112
Tel: (720) 882-9526
Fax: (720) 882-9546



PLAN: SHASTA DAISY PT STA: 9+50.00 TO 21+00.00
HORIZONTAL SCALE: 1" = 50'



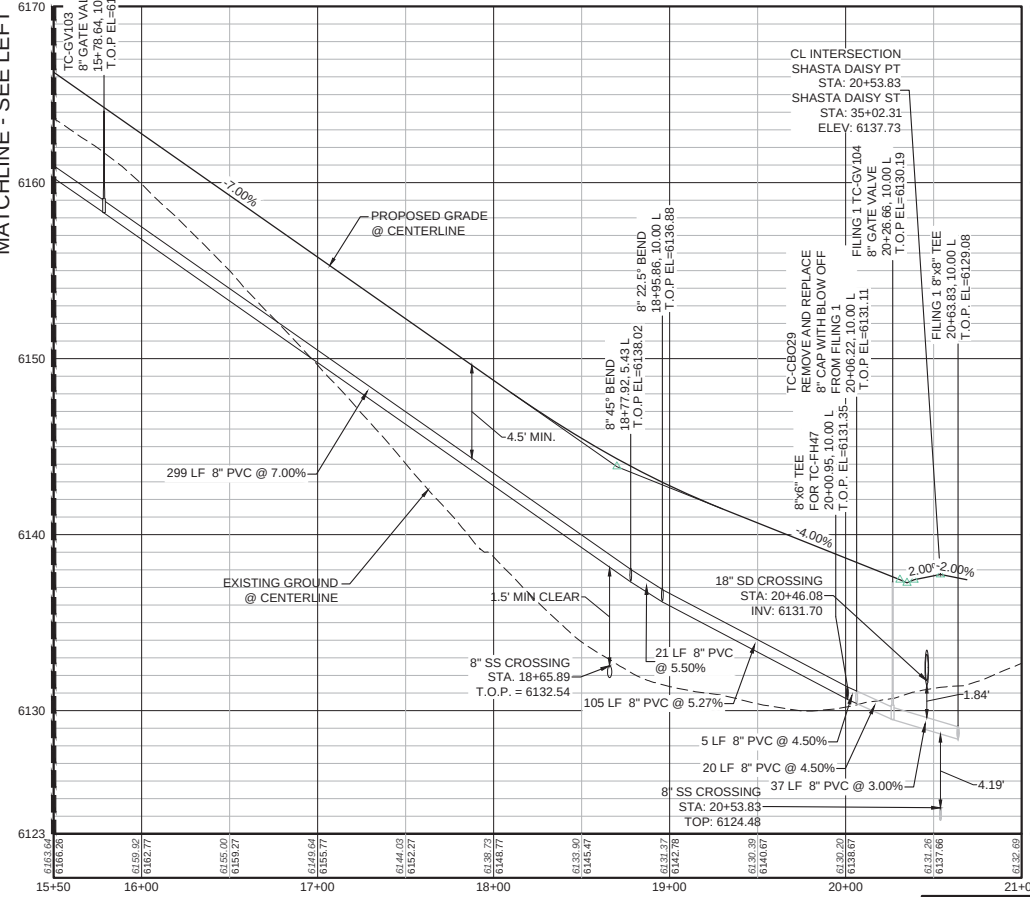
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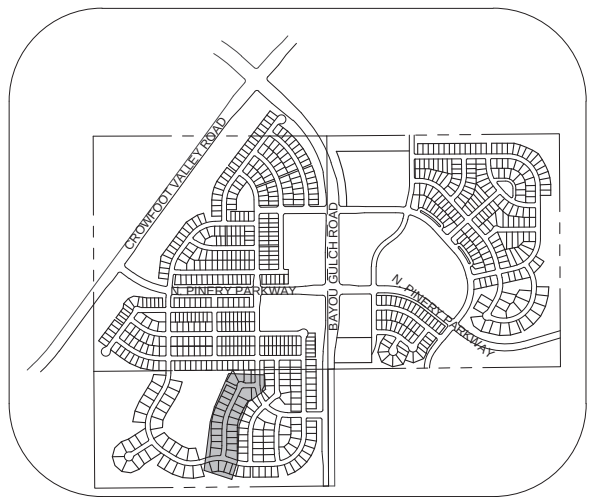
PROFILE: SHASTA DAISY PT STA: 9+50.00 TO 15+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

MATCHLINE - SEE LEFT

MATCHLINE - SEE RIGHT



PROFILE: SHASTA DAISY PT STA: 15+50.00 TO 21+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



KEYMAP
N.T.S.
LEGEND

- | | |
|---|--------------------------------------|
| ② BLOCK NUMBER | △ PROPOSED RANGE POINT |
| ① 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 SEWER LATERAL |
| ⊕ PROPOSED LIGHT POLE | --- PROPOSED WATER LINE |
| ⊕ PROPOSED SIDEWALK | --- PROPOSED WATER LATERAL W/ METER |
| ⊕ PROPOSED SIDEWALK RAMP | --- SECTION LINE |
| 10.00 EXISTING ELEVATION | --- EXISTING BOUNDARY |
| 10.00 PROPOSED DESIGN ELEVATION | --- EXISTING FIBER OPTIC LINE |
| ⊕ PROPOSED STORM DRAIN INLET | --- EXISTING OVERHEAD POWER |
| ⊕ PROPOSED STORM DRAIN MANHOLE | --- 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 | PVT 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 | RCB 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.

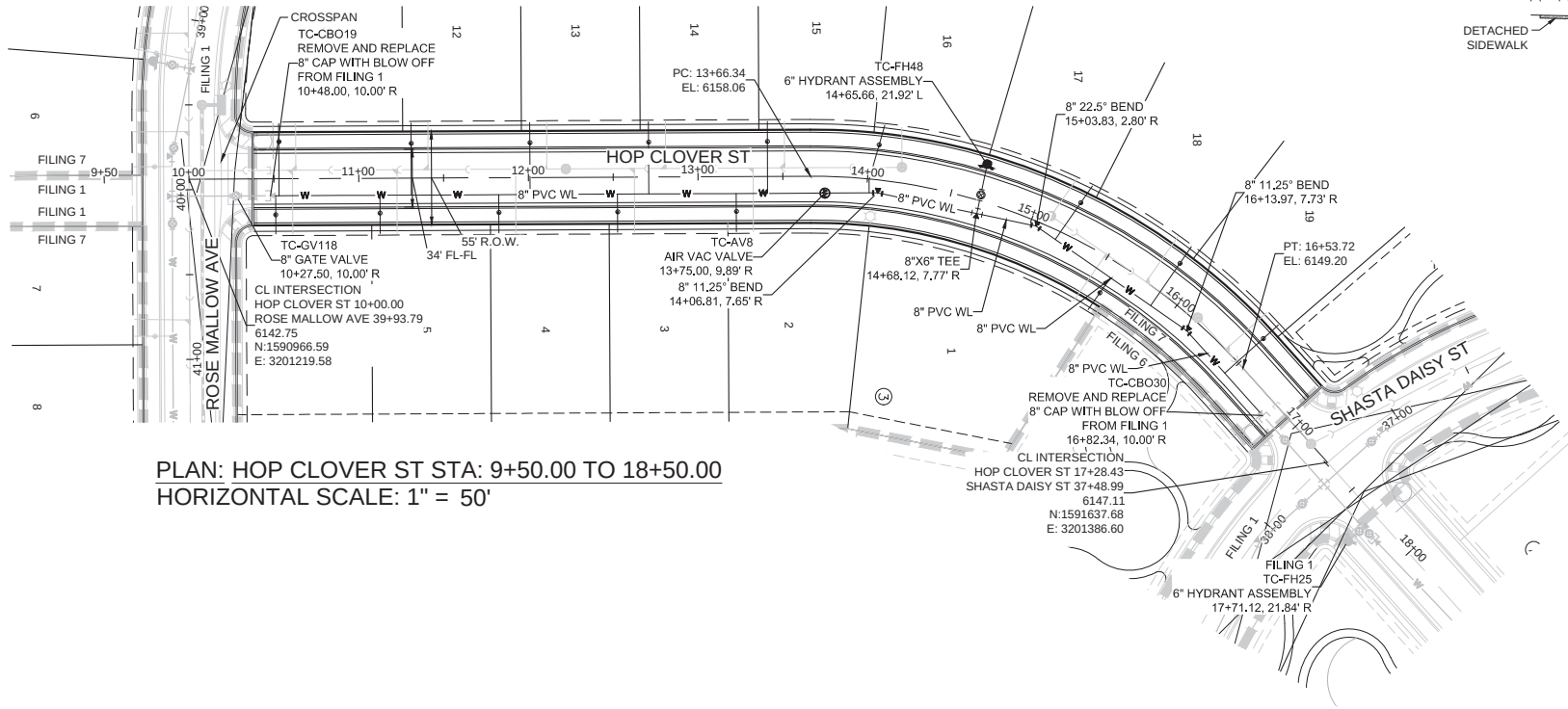
PREPARED UNDER THE SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067

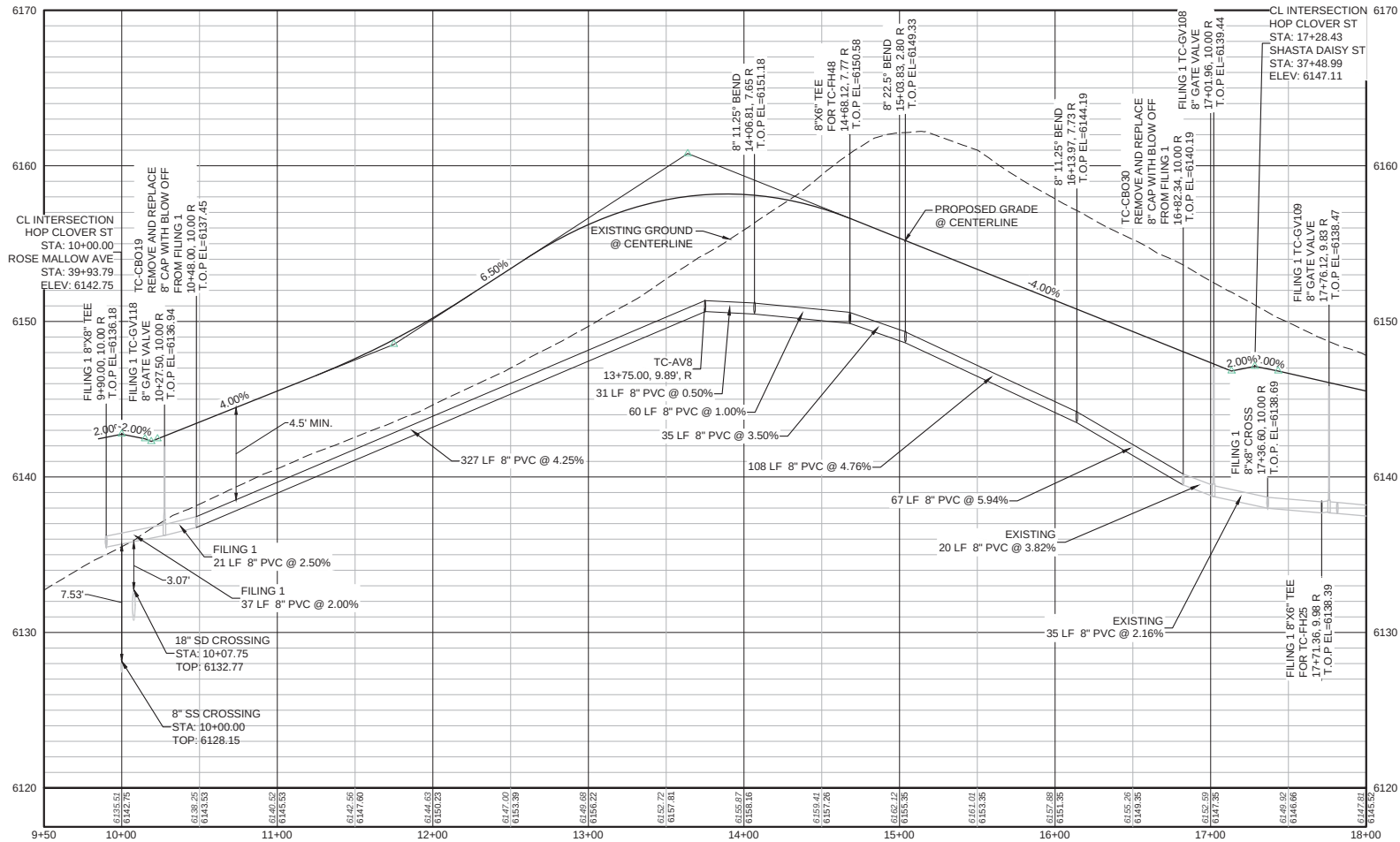
CALL 811
TWO WORKING DAYS
BEFORE YOU DIG
UNCC 1-800-922-1987

SHEET NUMBER	DRAWN BY: BHR	CHECKED BY: JJJ	DATE: AUGUST 2017	SCALE: AS SHOWN	FILE NO: 8130283701	Revisions	No.	Date	Init.	Appr.	Date
 10333 E. Dry Creek Rd. Suite 240 Englewood, CO 80112 Tel: (720) 882-9526 Fax: (720) 882-9546											
HR 935 LLC 7353 South Alton Way CENTENNIAL, CO 80112											
TRAILS AT CROWFOOT FILING 7 CONSTRUCTION DRAWINGS WATER PLAN & PROFILE SHASTA DAISY POINT											

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PLAN: HOP CLOVER ST STA: 9+50.00 TO 18+50.00
HORIZONTAL SCALE: 1" = 50'



PROFILE: HOP CLOVER ST STA: 9+50.00 TO 18+00.00
HORIZONTAL: 1" = 50'
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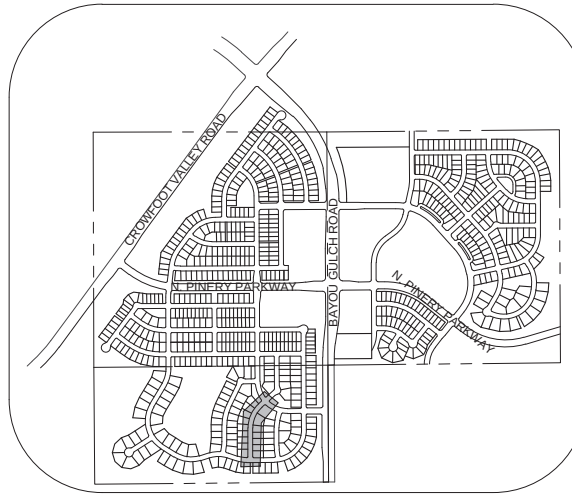
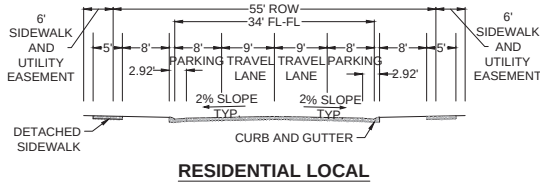
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BENCHMARK
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A 3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

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PREPARED UNDER THE
SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067



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 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
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LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION

SHEET NUMBER	8	DRAWN BY: RHR	CHECKED BY: JW	DATE: AUGUST 2017	SCALE: AS SHOWN	FILE NO: 8130283701	TRAILS AT CROWFOOT FILING 7 CONSTRUCTION DRAWINGS WATER PLAN & PROFILE HOP CLOVER STREET	HR 935 LLC 7353 South Alton Way CENTENNIAL, CO 80112  10333 E. Dry Creek Rd. Suite 240 Englewood, CO 80112 Tel: (720) 482-9526 Fax: (720) 482-9546																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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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.

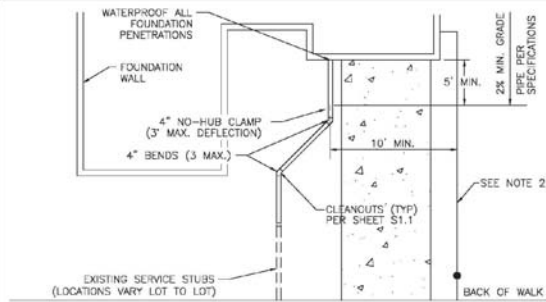
INSTALLATION NOTES:

- 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

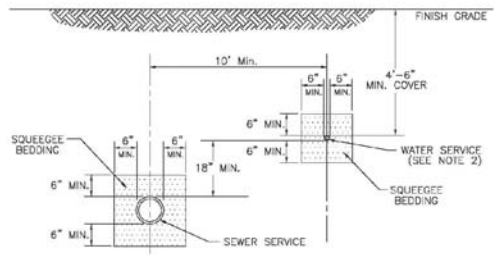
PARKER WATER & SANITATION DISTRICT	
DISTRICT POLICIES & INSTALLATION NOTES FOR SEWER SERVICES	
SCALE: NONE	DATE: 2/20/16
APPROVED: PVR	2/20/16
DIRECTOR OF ENGINEERING	10/16

2016 REVISION

SHEET S1.1



TYPICAL SERVICES PLAN VIEW

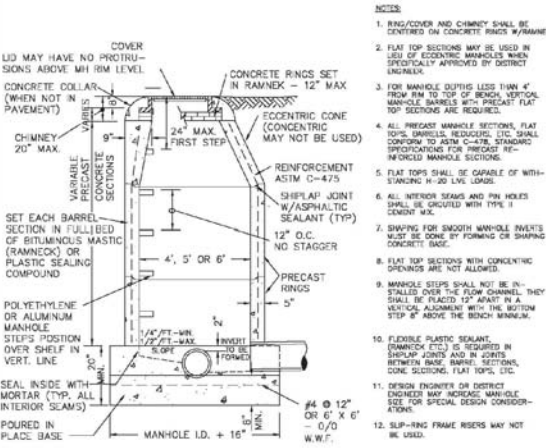
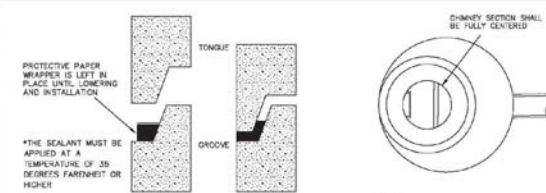


TYPICAL SERVICES SECTION

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

2016 REVISION

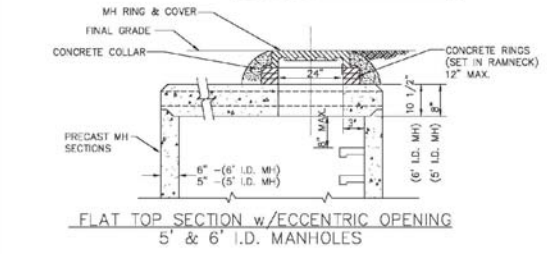
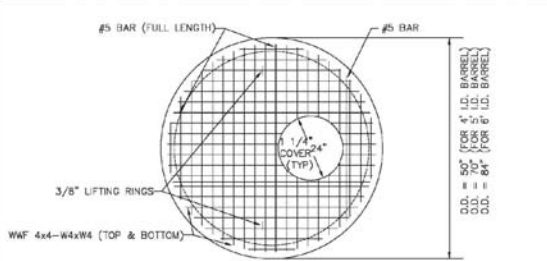
SHEET S1.2



PIPE I.D.	MANHOLE I.D.
18" & SMALLER	4'-0"
21" TO 48"	5'-0"
54"	6'-0"
60" & LARGER	SPECIAL DESIGN

2016 REVISION

SHEET S1.3

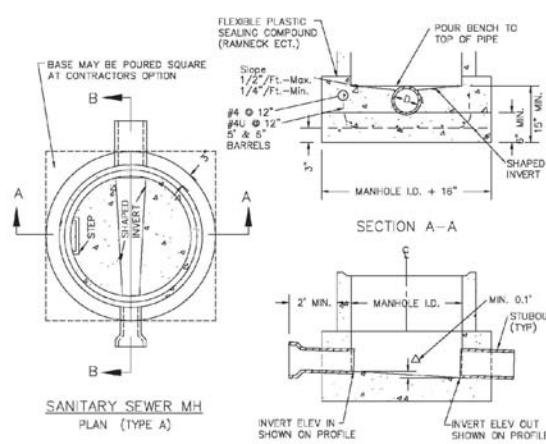


SECTION (NON-ADJUSTABLE RING & COVER TO BE CAST IN FLAT TOP) ALTERNATE RING & COVER (TO BE USED ONLY WHEN SPECIFICALLY AUTHORIZED.)

PARKER WATER & SANITATION DISTRICT	
PRECAST MANHOLE - 5' & 6' I.D. WITH ECCENTRIC CONE	
SCALE: NONE	DATE: 2/20/16
APPROVED: PVR	2/20/16
DIRECTOR OF ENGINEERING	10/16

2016 REVISION

SHEET S3.3



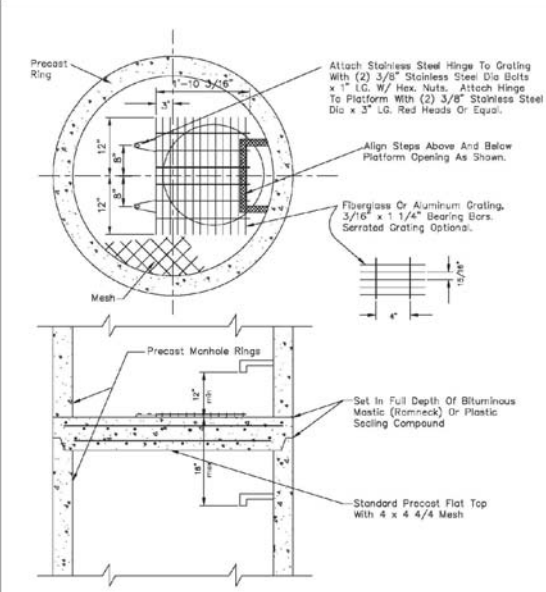
NOTES:

1. Manhole barrel min. thickness to be 5".
2. Shaping for smooth manhole inverts may be done by forming or shaping with cement mortar (See 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 BASE DETAIL	
SCALE: NONE	DATE: 2/20/16
APPROVED: PVR	2/20/16
DIRECTOR OF ENGINEERING	10/16

2016 REVISION

SHEET S3.5

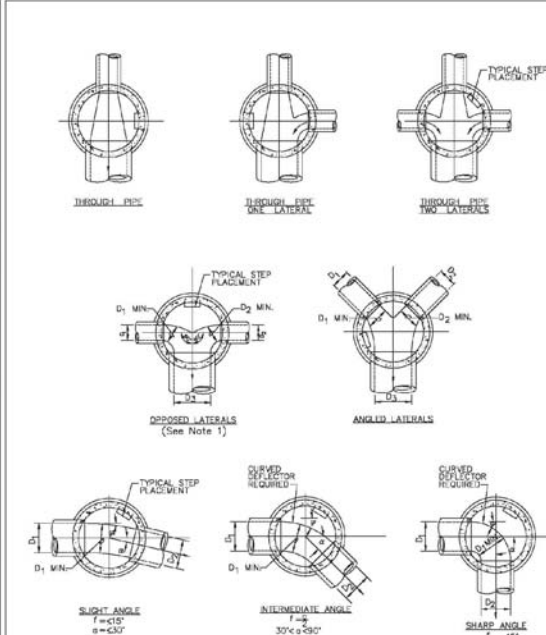


- NOTES:
- 1.1 Maximum distance between platforms shall be 15' vertically.
 - 1.2 All hardware used inside a manhole shall be stainless steel.
 - 1.3 Manholes over 20' deep shall submit structural calculations on base and wall sizing.

PARKER WATER & SANITATION DISTRICT	
INTERMEDIATE PLATFORM FOR MANHOLES OVER 20' DEPTH	
SCALE: NONE	DATE: 2/20/16
APPROVED: PVR	2/20/16
DIRECTOR OF ENGINEERING	10/16

2016 REVISION

SHEET S3.6

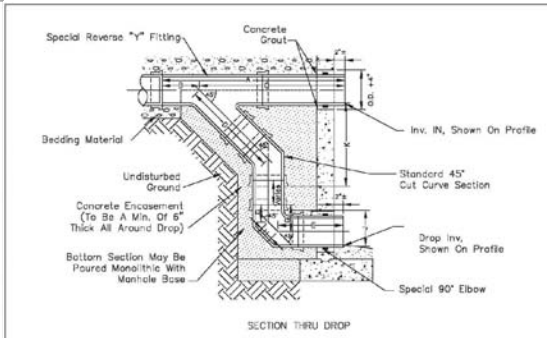


- NOTES:
1. Manhole shall be coated using bituminous mastic (ramneck) or plastic sealing compound.

PARKER WATER & SANITATION DISTRICT	
TYPICAL BASE CHANNELIZATION DETAILS	
SCALE: NONE	DATE: 2/20/16
APPROVED: PVR	2/20/16
DIRECTOR OF ENGINEERING	10/16

2016 REVISION

SHEET S3.7



PIPE I.D.	A	B	C	D	E	F	G	H	I	J	K	L	M	N
18"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"
21"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"
24"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"
30"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"
36"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"
42"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"
48"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"
54"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"
60"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"

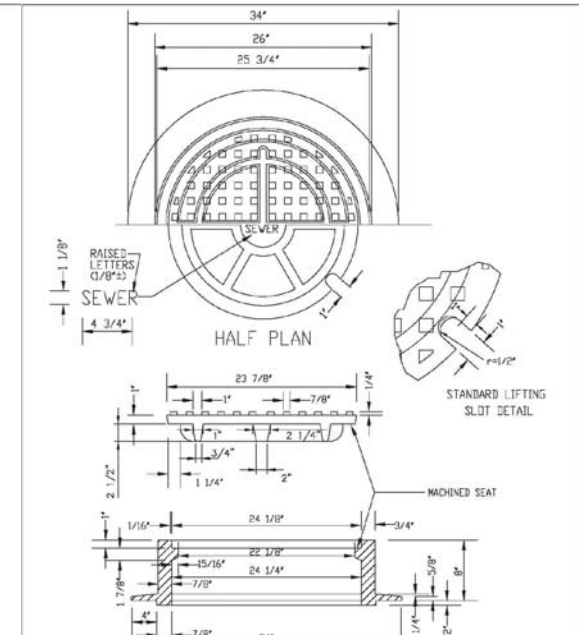
- NOTES:
1. All Clay Pipe & fittings (A.S.T.M. C-700) shown, details similar for all other pipe.
 2. Diameter of drop shall not be less than the line pipe diameter.
 3. For 18" diameter and larger, outside drop detail shall be a special design.
 4. Manhole shall be coated using bituminous mastic (ramneck) or plastic sealing compound.

OUTSIDE DROP MANHOLE CONSTRUCTION

PARKER WATER & SANITATION DISTRICT	
OUTSIDE DROP MANHOLE CONSTRUCTION	
SCALE: NONE	DATE: 2/20/16
APPROVED: PVR	2/20/16
DIRECTOR OF ENGINEERING	10/16

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SHEET S3.8



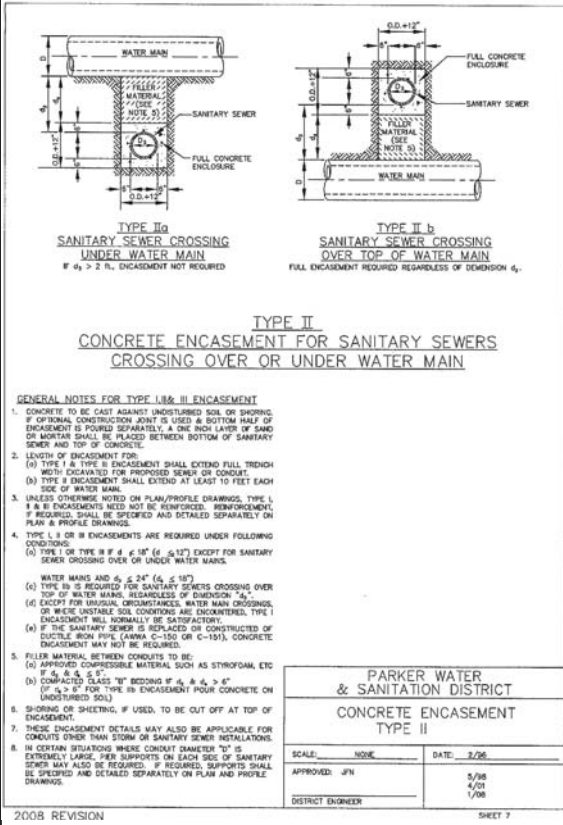
- NOTE:
1. Casting Specifications: ASTM A-48 With A Minimum Tensile Strength Of 25 KSI (Class 25)
 2. All Casting To Be Dipped In Asphalt Base Paint (Or Approved Equal).
 3. No other manhole lids will be accepted without prior approval from the District Engineer.

PARKER WATER & SANITATION DISTRICT	
24" DIAMETER RING AND COVER	
SCALE: NONE	DATE: 2/20/16
APPROVED: PVR	2/20/16
DIRECTOR OF ENGINEERING	10/16

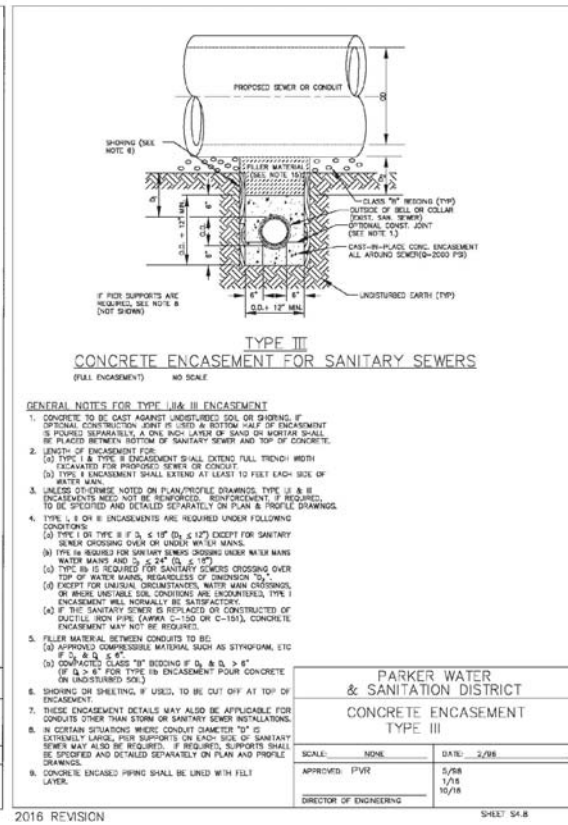
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SHEET S3.9

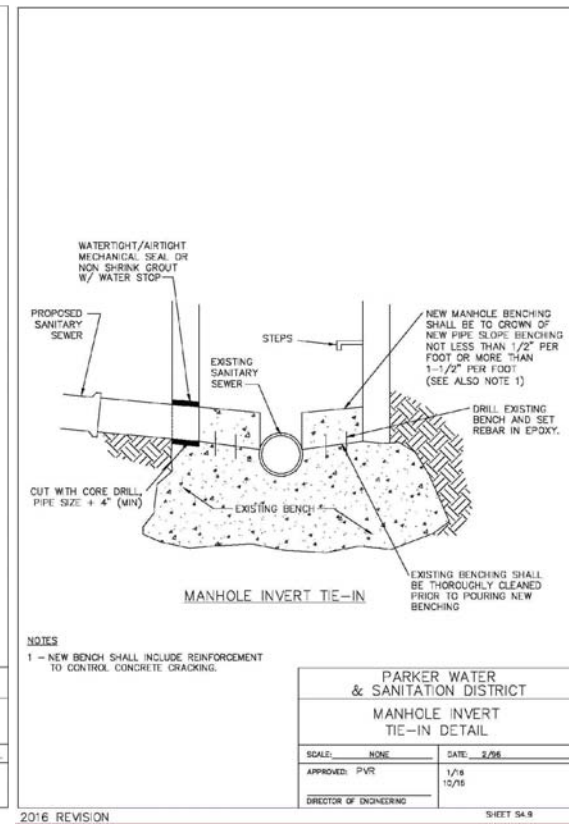
N:\PROJECTS\SSR\BACH\ENGINEERING\SSR\SET\SCDS\SF\PARKER WATER AND SANITATION\7 SANITARY SEWER DETAILS.DWG, TOWN, 3/6/2018 4:33 PM



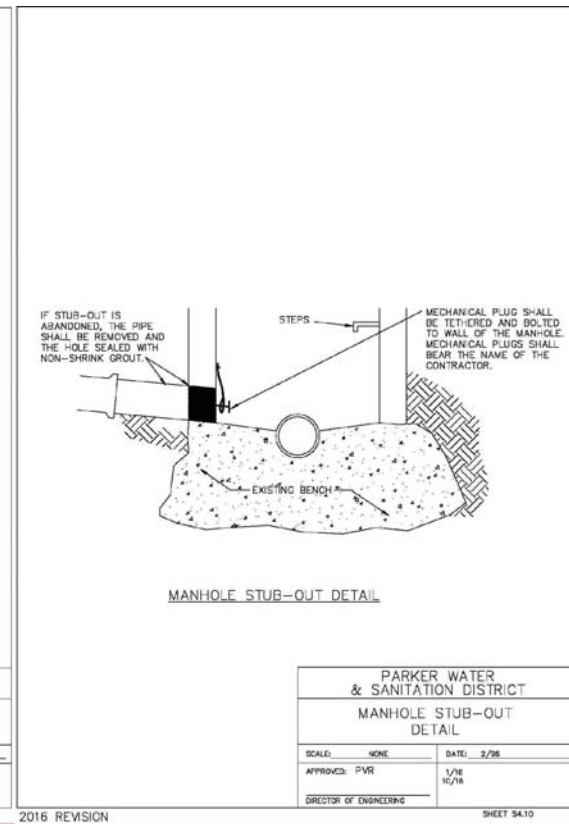
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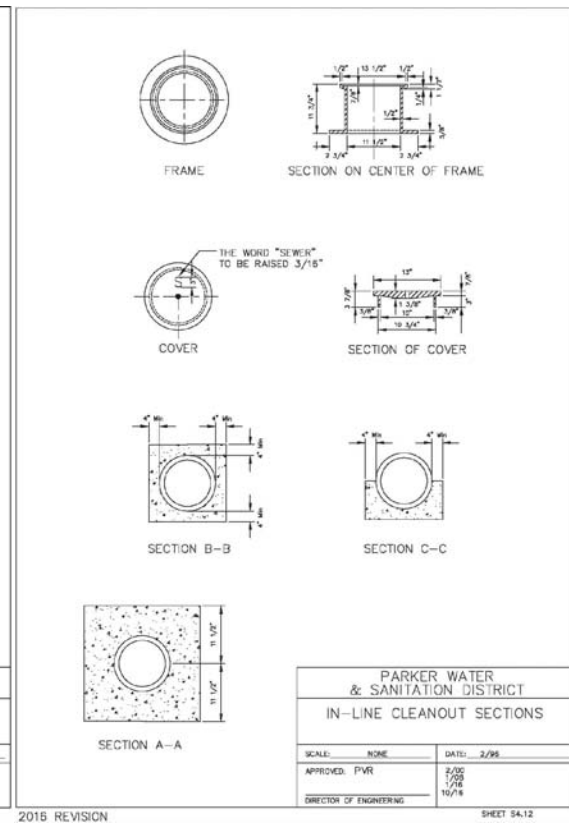
2016 REVISION



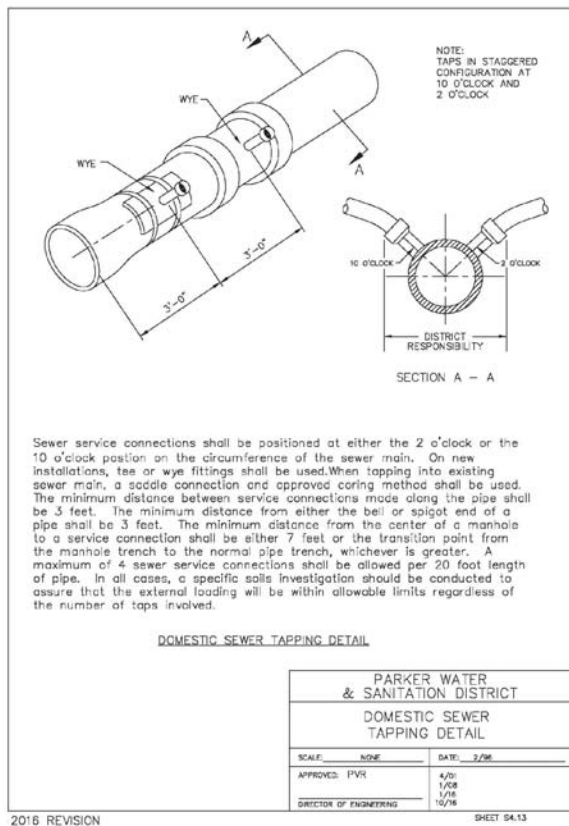
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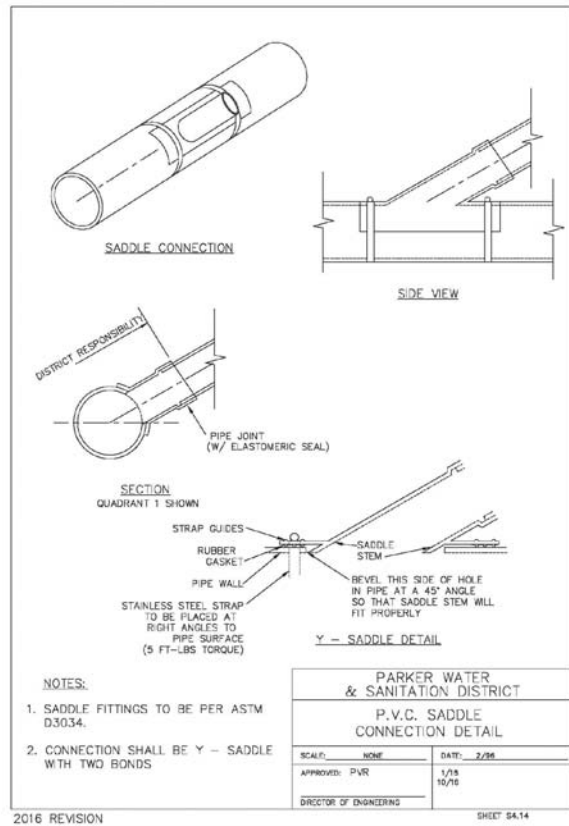
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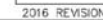


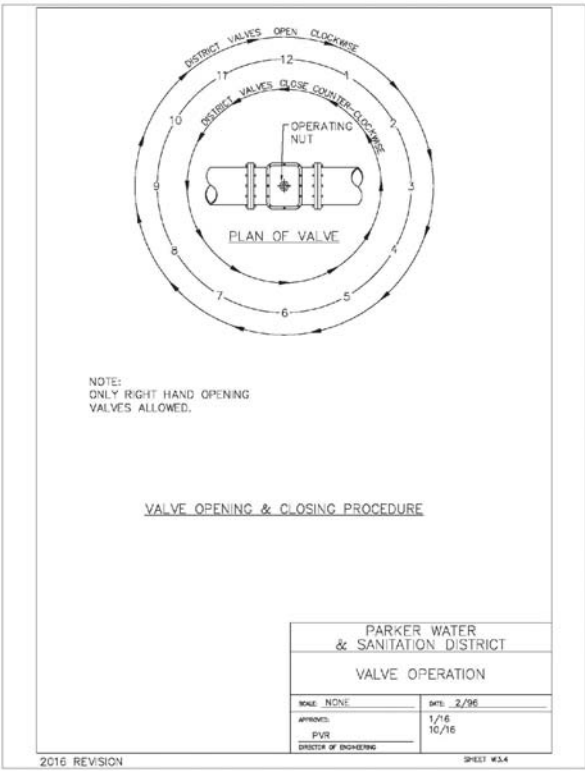
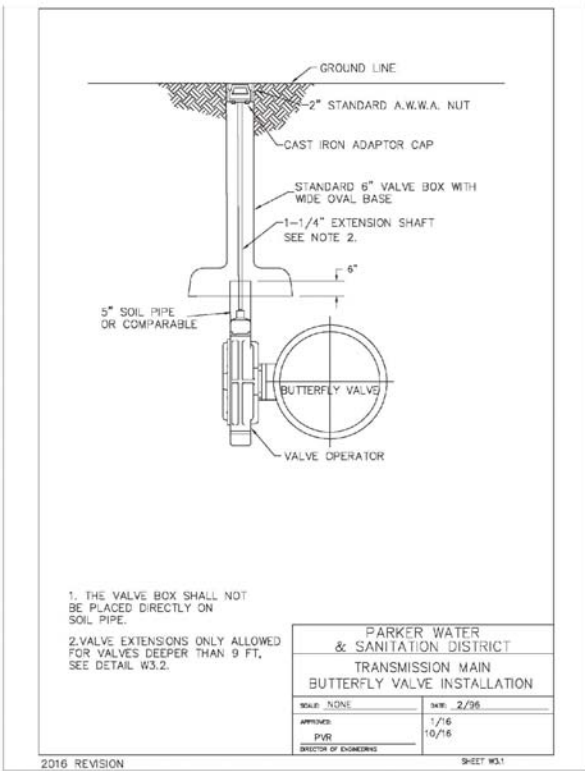
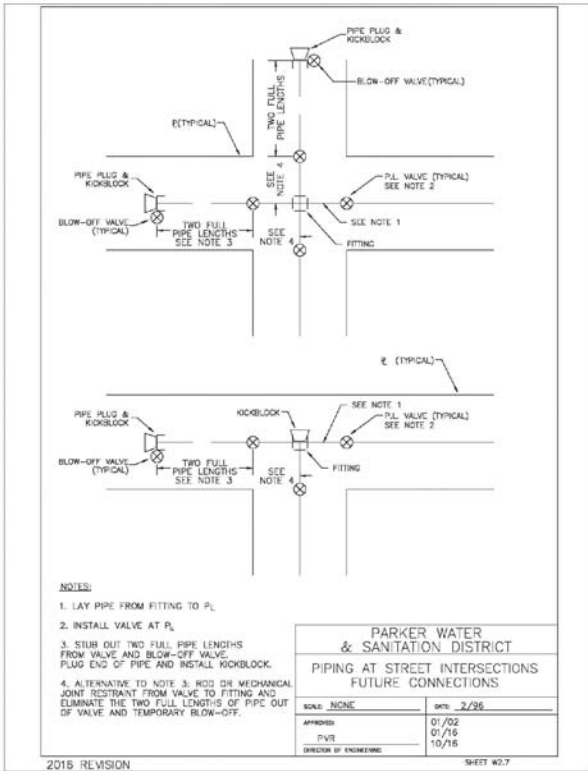
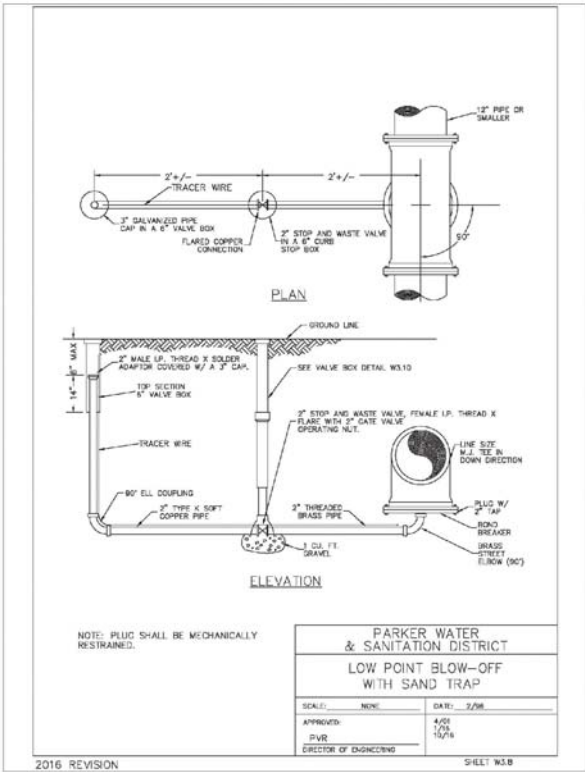
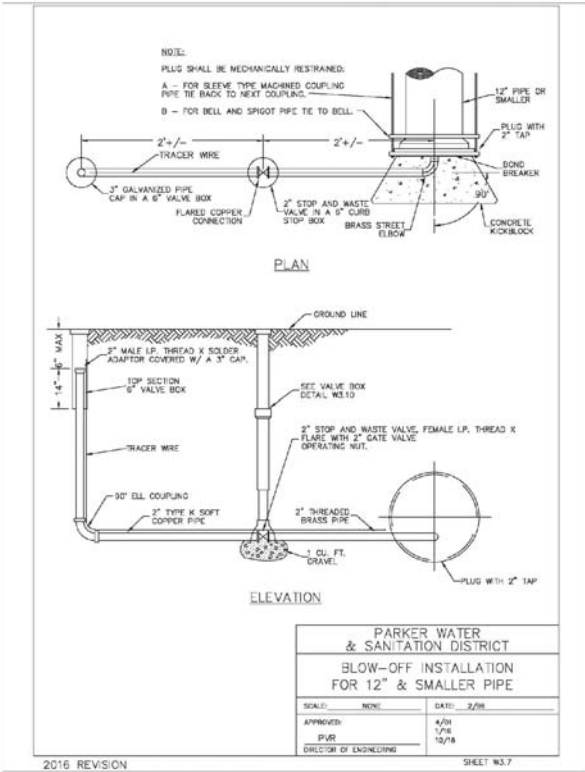
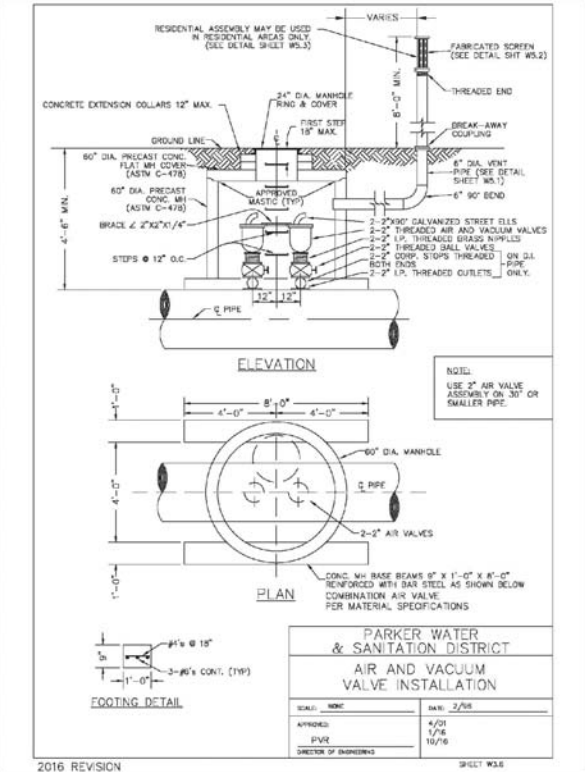
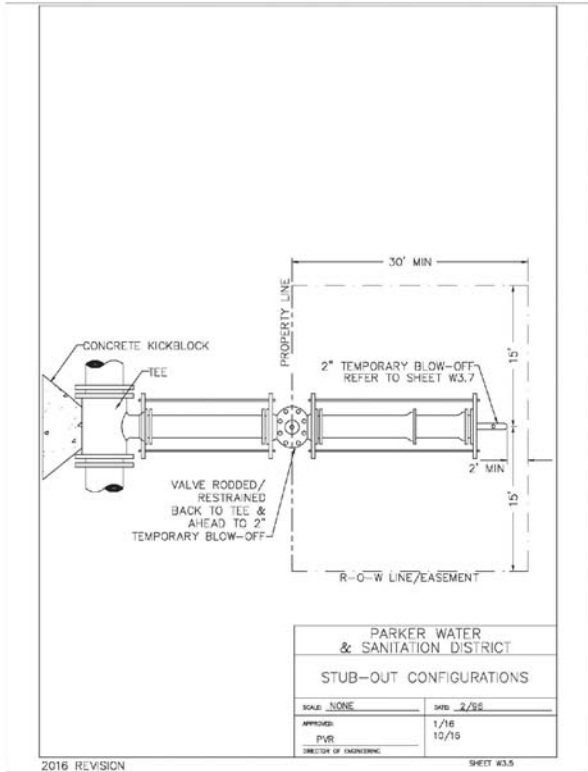
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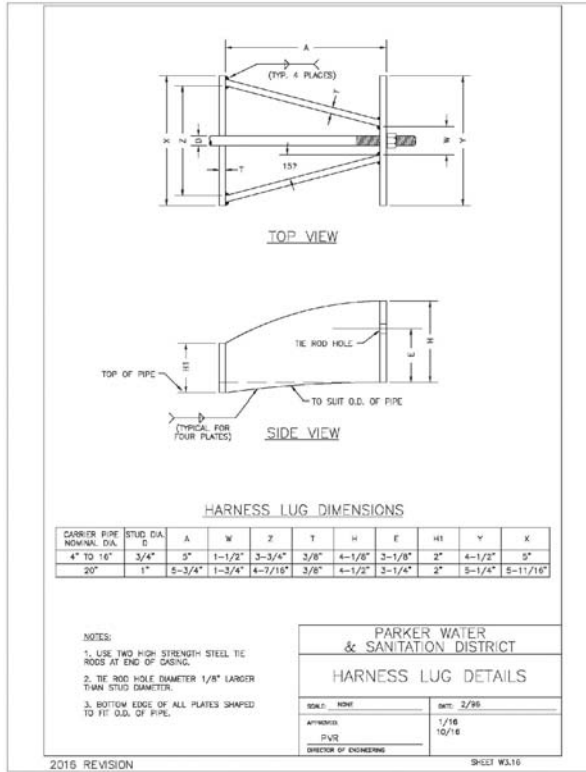
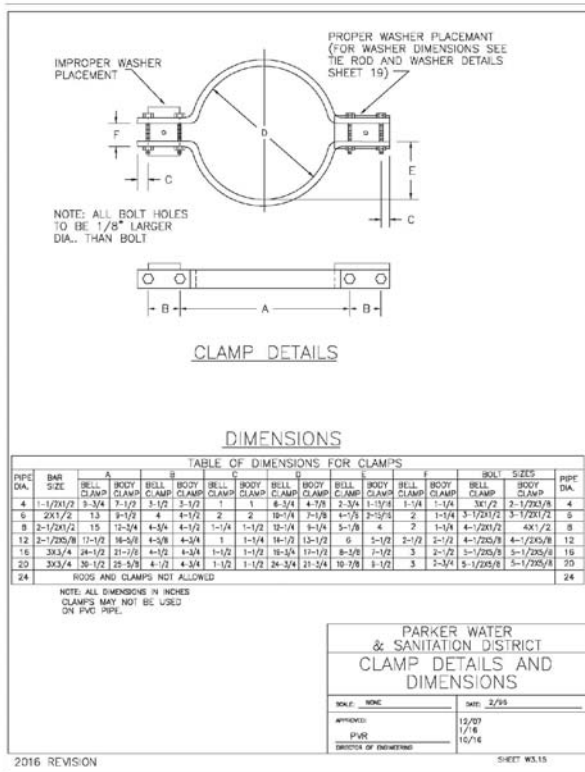
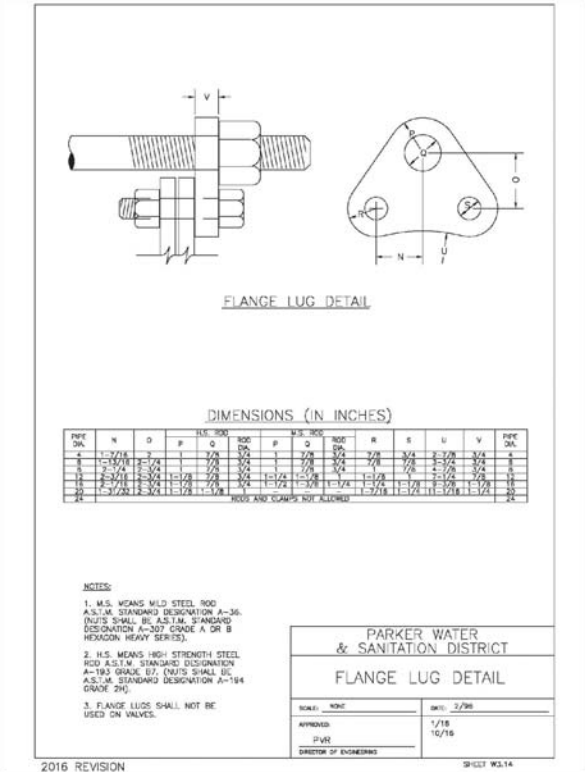
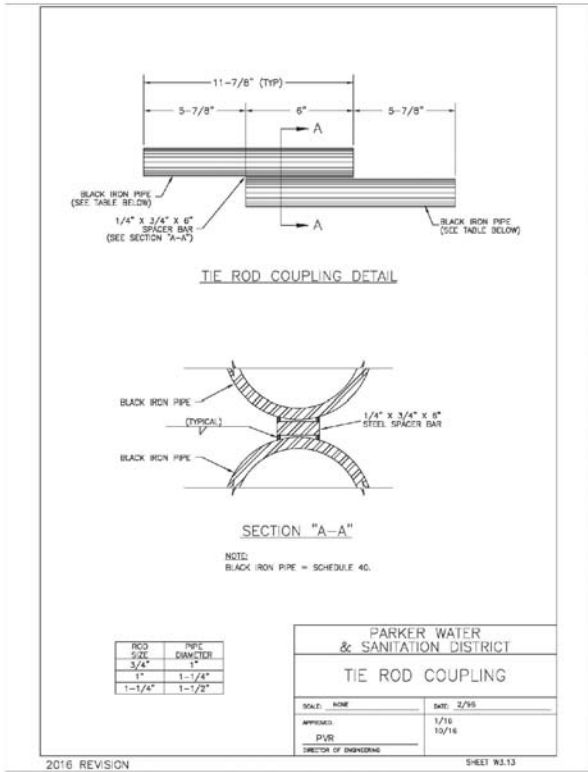
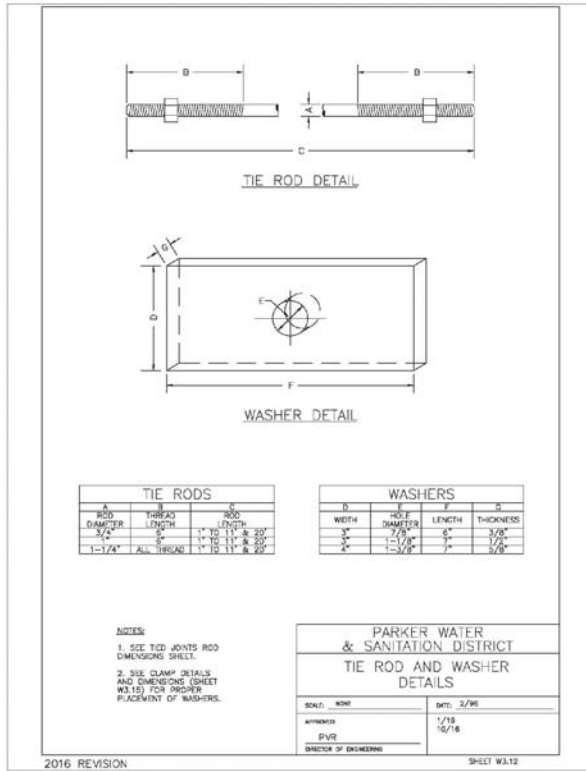
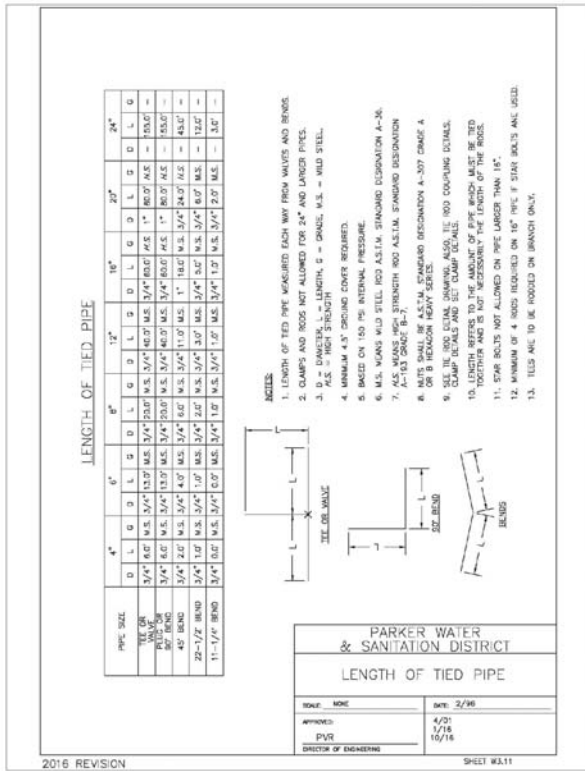
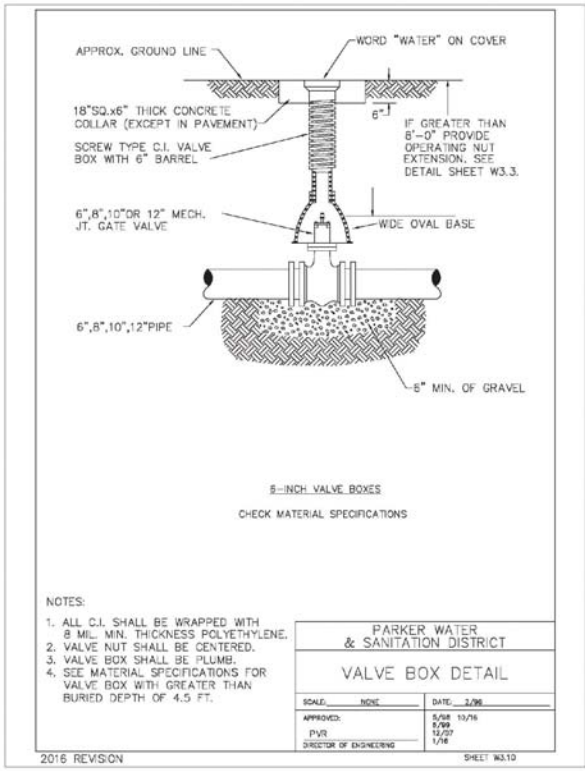
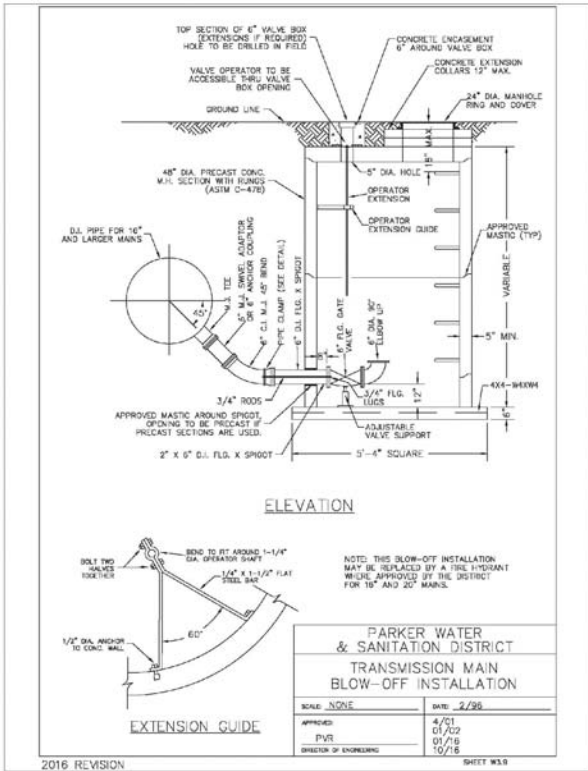


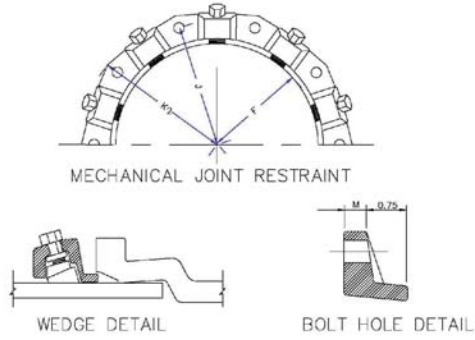
2016 REVISION

SHEET W1.1









NOMINAL PIPE SIZE	NO. OF JOINTS	NO. OF WEDGES	INCHES	INCHES	INCHES	INCHES
4"	2	2				
6"	5	3	11.12	9.5	7.00	5.88
8"	5	4	13.37	11.75	8.15	7.00
10"	5	5	15.62	14.00	11.25	10.00
12"	5	5	17.88	16.25	13.50	12.25
4"	4	2				
6"	5	3	11.12	9.5	7.00	5.88
8"	5	4	13.37	11.75	8.15	7.00
10"	5	5	15.62	14.00	11.25	10.00
12"	5	5	17.88	16.25	13.50	12.25

NOTES:

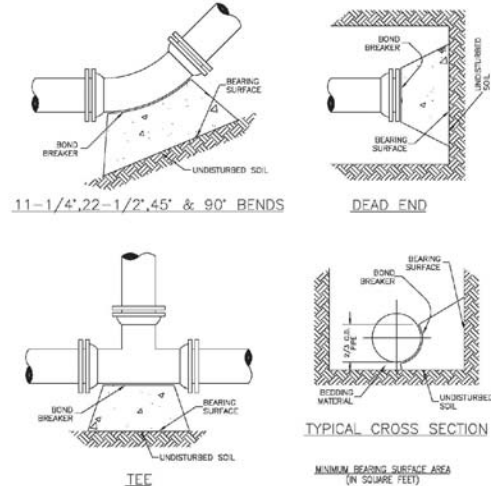
1. DIMENSIONS FOR 16" AND 20" D.I. PIPE NOT SHOWN.

PARKER WATER & SANITATION DISTRICT
MECHANICAL JOINT RESTRAINT DETAILS

SCALE: NONE	DATE: 2/95
APPROVED: PVR	4/01
DIRECTOR OF ENGINEERING	12/16

2016 REVISION

SHEET W3.17



NOTES:

1. ALL VALVES, TEES, BENDS AND PLUGS SHALL BE SUBMITTALS AND KICKBLOCKS.
2. BEARING SURFACES SHOWN IN CHART ARE MINIMUM.
3. BASED ON 150 PSI PIPE PRESSURE PLUS WATER HAMMER.
4. 6" AND 8" WATER HAMMER = 120 PSI.
5. 12" WATER HAMMER = 120 PSI.
6. 16", 20" AND 24" WATER HAMMER = 70 PSI.
7. SOIL BEARING CAPACITY = 3,000 LBS./SQ. FT.

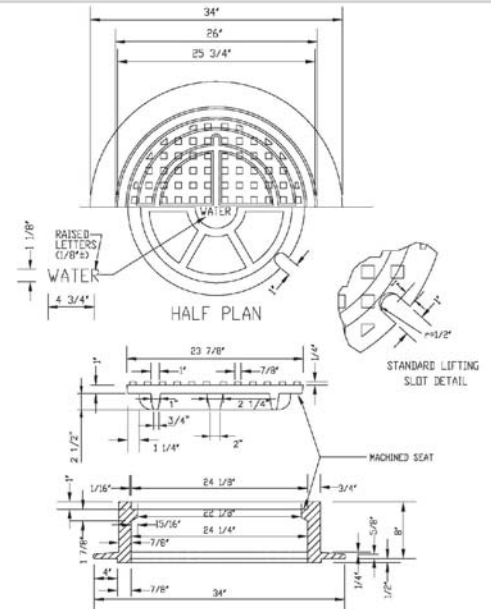
SIZE OF PIPE	MINIMUM BEARING SURFACE AREA (IN SQUARE FEET)	TEE OR 90° BEND
4"	1.00	1.00
6"	1.00	1.00
8"	1.00	1.00
10"	1.00	1.00
12"	1.00	1.00
16"	1.00	1.00
20"	1.00	1.00
24"	1.00	1.00

PARKER WATER & SANITATION DISTRICT
CONCRETE KICKBLOCKS BEARING SURFACES AND INSTALLATION

SCALE: NONE	DATE: 2/95
APPROVED: PVR	4/01
DIRECTOR OF ENGINEERING	12/16

2016 REVISION

SHEET W3.18



NOTES:

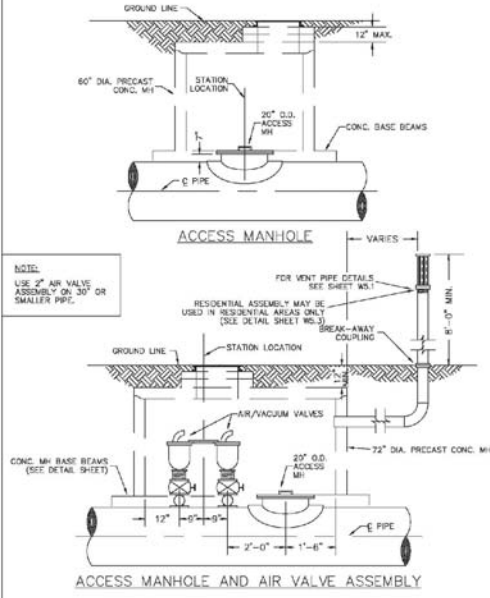
1. Coating Specifications: ASTM A-48 With A Minimum Tenacity (through 9" to 42" diam 20).
2. A) Coating To Be Dipped in Asphalt Base Paint (Or Approved Equal).

PARKER WATER & SANITATION DISTRICT
24" DIAMETER RING AND COVER

SCALE: NONE	DATE: 6/25
APPROVED: PVR	4/01
DIRECTOR OF ENGINEERING	12/16

2016 REVISION

SHEET W3.19



NOTES:

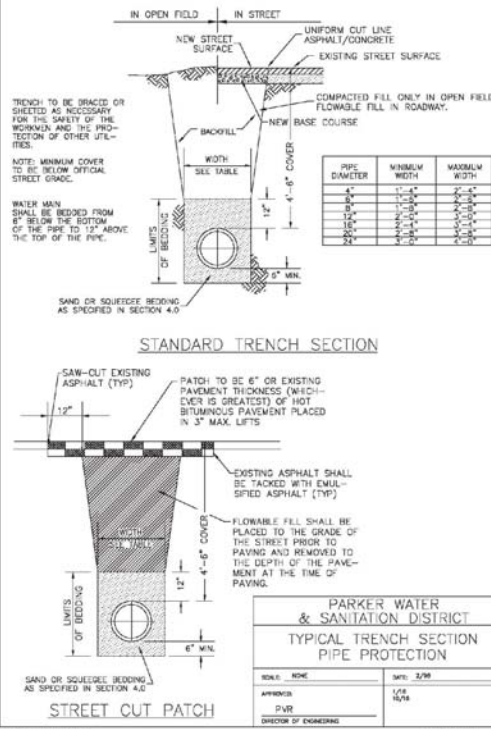
1. SEE SHEET W3.6 FOR CONCRETE MANHOLE BASE BEAMS AND AIR/VACUUM VALVE DETAILS.

PARKER WATER & SANITATION DISTRICT
ACCESS MANHOLE ASSEMBLY

SCALE: NONE	DATE: 2/95
APPROVED: PVR	4/01
DIRECTOR OF ENGINEERING	12/16

2016 REVISION

SHEET W3.20



2016 REVISION

SHEET W3.1

PIPE BEDDING:

(c) Installation of Bedding and Pipe After completion of the trench excavation and proper preparation of the foundation, six inches (6") of bedding material shall be placed on the trench bottom for support under the pipe. Bed holes shall be dug deep enough to provide a minimum of two inches (2") of clearance between the bed and bedding material. All pipe shall be installed in such a manner as to insure full support of the pipe barrel over its entire length. After the pipe is adjusted for line and grade, the bedding material shall be carefully placed and tamped under the bottom of the pipe and in the previously dug bed holes.

Tamping is herein defined as the act of placing approved bedding material under the bottom of the pipe, paying particular attention to under bell holes, and along holes. The purpose of tamping is to insure uniform support for the pipe.

The limits of bedding shall be from six inches (6") below the bottom of the pipe to twelve inches (12") above the top of the pipe. Approved bedding may then be installed to the groundline. See Chapter 2 of these Standards for backfill and composition of backfill.

Composition of bedding is not required. The only requirement is sufficient tamping to achieve uniform support under the pipe. See Sheet W3.1 of the Standard Details for a typical trench cross section.

(d) Bedding Material: The bedding material shall be a clean well-graded sand or equivalent sand and shall conform to the following limits when tested by means of laboratory sieves:

Sieve Size	Total Percent Passing by Weight
3/8 inch	100
No. 4	75-100
No. 8	35-85
No. 16	20-60
No. 30	8-50
No. 60	3-30
No. 100	1-10
No. 200	0-2

Well-Graded Sand for (24-inch or larger diameter)

Sieve Size	Total Percent Passing by Weight
3/8 inch	100
No. 200	0-3

Squeaky Sand for use with 20-inch or smaller

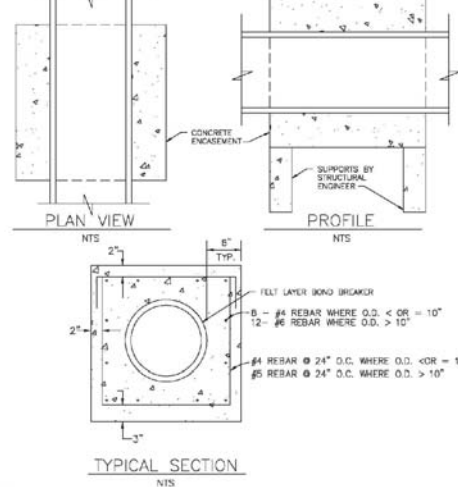
If approved by the District, fines from the trench walls and spoils pile may be used to provide uniform support for the pipe. No rock or stone larger than that allowed by the district, or any other detrimental materials, shall be placed under the pipe from six inches (6") approved bedding material shall be deposited on the bottom to be used in the event natural materials become unsatisfactory. The District reserves the right to require the use of the specified bedding material at any time.

PARKER WATER & SANITATION DISTRICT
PIPE BEDDING

SCALE: NONE	DATE: 2/95
APPROVED: PVR	4/01
DIRECTOR OF ENGINEERING	12/16

2016 REVISION

SHEET W3.2



NOTES:

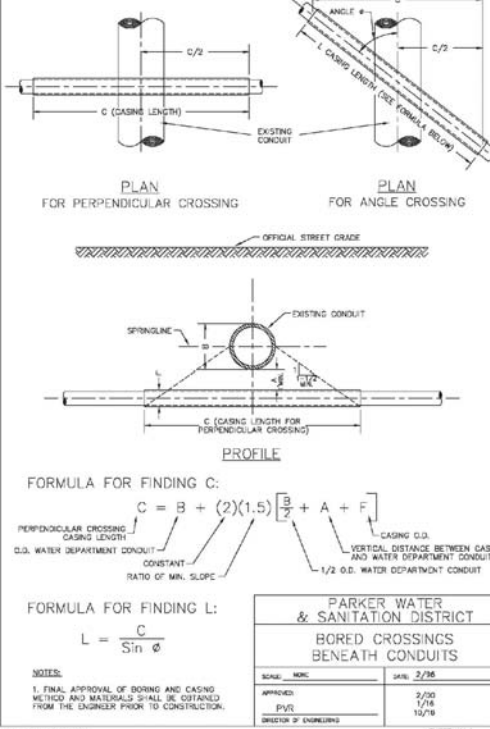
1. ALL CONCRETE SHALL HAVE A 28 DAY STRENGTH OF 3,000 PSI USING TYPE I PORTLAND CEMENT AND 3/4" AGGREGATE. ALL CONCRETE SHALL HAVE 5-78 ENTRAINED AIR CONTENT AND A MAXIMUM SLUMP OF 4".
2. ALL REINFORCEMENT SHALL CONFORM TO ASTM A615, GRADE 60.
3. ALL REINFORCEMENT SHALL HAVE 2" MIN. CONCRETE COVER.
4. THE SUBGRADE SHALL BE COMPACTED TO 95% OF THE MAXIMUM STANDARD PROCTOR DENSITY PRIOR TO FORMING THE STRUCTURE.
5. PIPE SHALL BE WRAPPED WITH FELT LAYER BEFORE ENCASEMENT.

PARKER WATER & SANITATION DISTRICT
WATERLINE ENCASEMENT

SCALE: NONE	DATE: 5/98
APPROVED: PVR	2/20
DIRECTOR OF ENGINEERING	12/16

2016 REVISION

SHEET W3.3



PARKER WATER & SANITATION DISTRICT
BORED CROSSINGS BENEATH CONDUITS

SCALE: NONE	DATE: 2/98
APPROVED: PVR	2/20
DIRECTOR OF ENGINEERING	12/16

2016 REVISION

SHEET W3.4

