NOTES:

1. LOCATIONS SHOWN ARE TYPICAL. ON STREETS WITH CENTER TURN LANES OR MEDIANs, THE LOCATION OF THE SEWER OR STORM LINES MAY BE ADJUSTED TO KEEP MANHOLES OUT OF MEDIANs AND MANHOLES CONES ARE TO BE ROTATED TO KEEP MANHOLE COVER LOCATED OUTSIDE OF WHEEL PATH.

2. ANY VARIATION FROM THIS DESIGN MUST BE APPROVED BY THE CITY ENGINEER.

3. FRANCHISE UTILITIES — IF SIX FOOT UTILITY EASEMENT IS PRESENT ALONG PROPERTY FRONTAGE, PLACEMENT SHALL BE AT BACK OF SIDEWALK WITHIN UTILITY EASEMENT. ALTERNATE LOCATIONS CONSIDERED ONLY TO SALVAGE CORE ROADWAY, OR TO AVOID SUBSTANTIAL CONFLICT WITH EXISTING UTILITIES. GAS VALVES ARE TO BE LOCATED 2’ MIN. FROM FACE OF CURB.

MINIMUM COVER:
- GAS — 30”
- CABLE TV — 24” IN STREET
- 18” IN SIDEWALK—EXISTING SUBDIVISION
- ALL OTHERS — 36”
NOTES:

1. WHERE DIRECTED BY THE ENGINEER, GRANULAR TRENCH FOUNDATION STABILIZATION SHALL BE PLACED PRIOR TO PLACEMENT OF THE BEDDING. SIZE AND DEPTH ARE DEPENDENT ON SOIL CONDITIONS.

2. BEDDING AND BACKFILL MATERIALS IN THE PIPE ZONE SHALL BE COMPACTED AS SPECIFIED PRIOR TO BACKFILLING THE REMAINDER OF THE TRENCH.

3. FOR ROCK AND OTHER INCOMPRESSIBLE MATERIALS, THE TRENCH SHALL BE OVEREXCAVATED A MINIMUM OF 6" AND REFILLED WITH GRANULAR MATERIALS AS DIRECTED BY THE ENGINEER.

4. BACKFILL AND COMPACTION ABOVE THE PIPE ZONE SHALL BE AS SHOWN IN STANDARD PLAN NO. G-1.3.

5. CITY WATER LINE SHALL HAVE 36" MINIMUM COVER FROM TOP OF PIPE TO FINISHED GRADE.
6" MIN. OF TOPSOIL HYDRO SEED ALL EXPOSED SOILS

WHEN NOT OTHERWISE SPECIFIED, RESURFACING SHALL CONSIST OF 6" OF 1-1/4" – 0 OR 3/4" – 0 CRUSHED AGGREGATE AS DIRECTED.

NOTES:

1. SEE WSDOT SPECIFICATION FOR COMPACTION REQUIREMENTS. COMPACTION PERCENTAGES REFER TO MAXIMUM DRY DENSITY AS DETERMINED BY MODIFIED PROCTOR (AASHTO T-180).

2. FOR PIPE ZONE BEDDING AND COMPACTION REQUIREMENTS, SEE STD. PLAN NO. G-1.2.

3. CONTRACTOR MAY USE UP TO 2-1/2" DEPTH OF 5/8"–0 OR 3/4" – 0 CRUSHED AGGREGATE IN LIEU OF 1-1/4" – 0 BASE ROCK UNDER SURFACING FOR LEVELING COURSE.

4. ALL EXISTING PAVED SURFACES SHALL BE SAW CUT A MINIMUM OF 12" OUTSIDE OF EDGE OF TRENCH TO PROVIDE A NEAT STRAIGHT EDGE.

5. THE EDGES OF ALL EXISTING ASPHALT SURFACES SHALL BE CLEANED AND A TACK COAT SHALL BE APPLIED PER STD. SPEC. SECTION 5–04.3(5)a. ALL JOINTS SHALL BE SEALED WITH AR-4000 AND SANDED.

6. ALL BACKFILL SHALL BE MECHANICALLY COMPACTION IN LIFTS WHICH DO NOT EXCEED RATED CAPABILITY OF EQUIPMENT USED, BUT IN NO CASE EXCEED 12" LOOSE.

7. GRANULAR BACKFILL SHALL BE CRUSHED SURFACING IN ACCORDANCE WITH WSDOT SECTION 9–03.9(3) BASE COURSE GRADATION.

8. CLASS 3½”, PG 58–22 SUPERPAVE, ASPHALT SHALL BE PLACED IN 2 LIFTS, 5" DEPTH FOR ARTERIALS, 4" DEPTH FOR COLLECTOR & RESIDENTIAL STREETS.

9. FOR UTILITIES INSTALLED WITHIN THE TRAVEL LANE AND PARALLEL WITH THE CENTERLINE OF THE ROAD, A HALF STREET GRIND AND OVERLAY SHALL BE REQUIRED.

REV. 4/10/17 BGK
GENERAL WATER NOTES:

1. ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE "CITY OF RIDGEFIELD ENGINEERING STANDARDS FOR PUBLIC WORKS CONSTRUCTION" AND THE LATEST EDITION OF THE "STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND MUNICIPAL CONSTRUCTION" HEREOF TO AS THE "STANDARD SPECIFICATIONS" PREPARED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION, EXCEPT AS NOTED HEREIN OR ON THE STANDARD PLANS. ALL REFERENCES TO AWWA AND OR APWA SPECIFICATIONS SHALL MEAN THEIR LATEST REVISION.

2. ALL WATER LINE CONSTRUCTION IS SUBJECT TO INSPECTION AND APPROVAL BY THE CITY OF RIDGEFIELD, PRIOR TO COVER. ALL TESTING SHALL BE APPROVED PRIOR TO PAVING. THE CONTRACTOR SHALL NOTIFY THE CITY DEVELOPMENT INSPECTOR AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION. A PRE-CONSTRUCTION MEETING IS REQUIRED PRIOR TO THE BEGINNING OF CONSTRUCTION.

3. ALL PIPES FURNISHED SHALL BE NEW, AND CONFORM TO THE REQUIREMENTS OF AWWA DI CL.52.

4. A TRAFFIC CONTROL PLAN IS REQUIRED PRIOR TO CONSTRUCTION WITHIN A CITY RIGHT-OF-WAY.

5. WHERE EXISTING SERVICE MUST BE INTERRUPTED, THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE CITY AND NOTIFY ALL CUSTOMERS AFFECTED AS TO THE DATE AND DURATION OF THE INTERRUPTION. NOTIFICATION MUST BE DONE TWO (2) WORKING DAYS IN ADVANCE OF INTERRUPTION. THE CONTRACTOR SHALL SCHEDULE CONSTRUCTION TO PROVIDE MINIMUM INTERRUPTION OF SERVICES AS DETERMINED BY THE INSPECTOR. UNDER NO CIRCUMSTANCES SHALL A CONTRACTOR SCHEDULE A WATER MAIN SHUT-DOWN WITHOUT THE REQUIRED 48 HOUR NOTICE. THE CONTRACTOR SHALL NOT OPERATE THE CITY’S WATER FACILITIES WITHOUT APPROVAL FROM THE CONSTRUCTION INSPECTOR.

6. WHEN EXTENDING AN EXISTING LINE THE CONTRACTOR IS REQUIRED MAINTAIN PHYSICAL SEPARATION BETWEEN THE EXISTING AND NEW SYSTEM UNTIL THE NEW SYSTEM HAS BEEN TESTED AND DISINFECTED. AFTER PASSING TESTS THE FITTINGS AND PIPE USED FOR THE CONNECTION TO THE EXISTING SYSTEM MUST BE WETTED WITH A CHLORINE SOLUTION UNDER INSPECTON OF CITY STAFF.

WATER METERS:

7. ALL WATER METERS WILL BE FURNISHED AND INSTALLED BY THE CITY.
NOTES:  
1. PIONEER STREET (SR-501) CROSS SECTION VARIES. SEE T-2.16 THROUGH T-2.17  
2. WIDEN SIDEWALK TO 10’ ADJACENT TO COMMERCIAL ZONED AREAS

MAJOR ARTERIAL SECTION
NOT TO SCALE
NOTE: WIDEN SIDEWALK TO 10' ADJACENT TO COMMERCIAL ZONED AREAS

MINOR ARTERIAL SECTION
NOT TO SCALE
NOTES:  TREE WELLS SHALL BE INSTALLED IN SIDEWALK
AT 25' O.C. OR AS DIRECTED BY PUBLIC WORKS
DIRECTOR OR COMMUNITY DEVELOPMENT
DIRECTOR

DOWNTOWN MINOR ARTERIAL SECTION
NOT TO SCALE

REV. 3/03/08 SCH
INDUSTRIAL/COMMERCIAL COLLECTOR SECTION

NOT TO SCALE

REV. 3/03/08 SCH

INDUSTRIAL/COMMERCIAL COLLECTOR SECTION

STANDARD DETAILS

CITY OF RIDGEFIELD

SHEET T – 2.4
STANDARD COLLECTOR SECTION
NOT TO SCALE

REV. 3/03/08 SCH

STANDARD COLLECTOR SECTION
STANDARD DETAILS
CITY OF RIDGEFIELD

SHEET T - 2.5
SCENIC COLLECTOR SECTION

NOT TO SCALE

NOTE: SIDEWALK MAY BE A DETACHED PATH
INDUSTRIAL LOCAL SECTION

NOT TO SCALE

EXPANSION JOINT

ASPHALT CONCRETE 2.0–4.0% 2.0–4.0%

CONCRETE CURB AND GUTTER

4” CONCRETE SIDEWALK (TYP)
6” AT RESIDENTIAL AND 8” AT COMMERCIAL DRIVEWAY SECTION

REV. 3/04/08 SCH

INDUSTRIAL LOCAL SECTION
STANDARD DETAILS CITY OF RIDGEFIELD SHEET T – 2.7
RESIDENTIAL ACCESS SECTION
NOT TO SCALE

REV. 3/04/08 SCH

PLANTER STRIP

60.0'
36.0'
10.0'
10.0'
8.0'
8.0'
0.5'
0.5'
6.5'
6.5'
5.0'
5.0'
2.0-4.0%
2.0-4.0%

ASPHALT CONCRETE
CONCRETE CURB AND GUTTER
4" CONCRETE SIDEWALK (TYP)
6" AT RESIDENTIAL AND 8" AT COMMERCIAL DRIVEWAY SECTION

STANDARD DETAILS
CITY OF RIDGEFIELD
SHEET T - 2.8
NOTES:
1) TAKEN FROM HAPCO DRAWING BB6264
2) DRAWING NOT TO SCALE
3) LUMINAIRE (FIXTURE) TO BE AMERICAN ELECTRIC ATB2 40BLED70 MVOLT R3, BLACK POWDER COAT FINISH
4) REFER TO SHEET T-2.12 FOR LIGHT POLE FOUNDATION DETAIL
LIGHT POLE FOUNDATION DETAIL

REBAR: ASTM A615 GRADE 60 MIN(Fy=60ksi)
CONCRETE: 3000psi MIN COMPRESSIVE STRENGTH @ 28-DAYS

SPECIAL INSPECTION REQ'D FOR PLACEMENT OF ANCHOR BOLTS

MIN, (4) 1" DIA A307 ALL-THREAD ROD ANCHORS W/(2) NUTS & WASHERS @ BOTTOMS

CNTR OF POLE FTG.

LIGHT POLE AND BASE PLATE BY MANUF'R

MIN 11¾" DIA BOLT CIRCLE

3" CLR. TYP.

(3) TIES @ TOP

24" DIA

(8) #4 x FULL-HT

AUGERED CONC FTG CAST AGAINST UNDISTURBED NATIVE SOIL

6" 3'-0" EMBED

6'-0"

A

#3 TIES @ 6" O.C.

SECTION A-A

B

LP
NOTES:
1. A MINIMUM 4’ WIDE ACCESSIBLE ROUTE SHALL BE MAINTAINED IN ALL PEDESTRIAN ACCESSIBLE AREAS.
2. CONTRACTION POINTS SHALL BE PLACED ALONG SIDEWALKS IN ACCORD WITH SIDEWALK DETAIL. ALL JOINTS SHALL BE CLEANED AND EDGED.
3. CHANGES IN LEVEL UP TO 1/4” MAY BE VERTICAL AND WITHOUT EDGE TREATMENT. CHANGES IN LEVEL BETWEEN 1/4” AND 1/2” SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 2:1.
4. CEMENT CONCRETE APPROACHES SHALL BE CONSTRUCTED OF AIR-ENTRAINED CLASS 3000 AND MAY BE POURED INTEGRAL WITH CURB.
5. EXISTING CURB, GUTTER, AND SIDEWALK TO BE SAWCUT AND REMOVED FOR INSTALLATION OF APPROACH.
6. COMMERCIAL DRIVEWAY REQUIRES REINFORCING STEEL (#4 REBAR @ 12” O.C IN EACH DIRECTIONS) MAINTAIN MIN. 3” COVER.
7. 3” DEPTH 3/4”—0 CRUSHED AGGREGATE BASE COMPACTED TO 95% OF MAX. DRY DENSITY.
8. SUBGRADE PREPARATION PER WSDOT STD. SPEC. 2—06.3(1).

CEMENT CONCRETE CURB AND GUTTER SECTION SHOWN (SEE STANDARD PLANS FOR OTHER CURB DESIGNS).

1/2” MAX (BEVEL WHERE POSSIBLE) SEE NOTE 3.

NOTE: USE TYPE 1 APPROACH ONLY WHEN A SIDEWALK IS USED AT THE BACK OF THE APPROACH.

CEMENT CONCRETE CURB AND GUTTER

CONCRETE DRIVEWAY APPROACH STANDARD
CONCRETE DRIVEWAY APPROACH TYPE 3

STANDARD DETAILS

CITY OF RIDGEFIELD

SHEET T - 2.14

NOTES:

1. A MINIMUM 4’ WIDE ACCESSIBLE ROUTE SHALL BE MAINTAINED IN ALL PEDESTRIAN ACCESSIBLE AREAS.

2. CONTRACTION JOINTS SHALL BE PLACED ALONG SIDEWALKS IN ACCORD WITH SIDEWALK DETAIL. ALL JOINTS SHALL BE CLEANED AND EDGED.

3. CHANGES IN LEVEL UP TO 1/4” MAY BE VERTICAL AND WITHOUT EDGE TREATMENT. CHANGES IN LEVEL BETWEEN 1/4” AND 1/2” SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 2:1.

4. TRANSITION AREA TO BE SLOPED AT 1v TO 12h, UNLESS STREET GRADE WOULD CREATE A TRANSITION LENGTH GREATER THAN 8’, THEN THE MAXIMUM LENGTH OF 8’ GOVERNS SLOPE.

5. CEMENT CONCRETE APPROACHES SHALL BE CONSTRUCTED OF AIR-ENTRAINED CONCRETE CLASS 3000 AND MAY BE Poured INTEGRAL WITH CURB.

6. EXISTING CURB, GUTTER AND SIDEWALK TO BE SAWSHOT AND REMOVED FOR INSTALLATION OF APPROACH.

7. COMMERCIAL DRIVEWAY REQUIRES REINFORCING STEEL (#4 REBAR @ 12” O.C. IN EACH DIRECTION), MAINTAIN MIN. 3” COVER.

8. 3” DEPTH 3/4”-0 CRUSHED AGGREGATE BASE COMPACTED TO 95% OF MAX. DRY DENSITY.

9. SUBGRADE PREPARED PER WSDOT STD. SPEC. 2-06.3(1)

REV. 3/04/08 SCH
PLAN VIEW
COMMERCIAL DRIVEWAY ENTRANCE

SECTION "A-A"

NOTES:
1. CONCRETE SHALL BE 3300 PSI (MIN. BREAKING STRENGTH @ 28 DAYS) WITH 3" SLUMP (±1"). TOTAL AIR CONTENT (% BY VOLUME OF CONCRETE) SHALL NOT BE LESS THAN 4% OR MORE THAN 7%. MEDIUM BROOM FINISH PARALLEL TO DRIVEWAY CENTERLINE.

2. ALL JOINTS SHALL BE FINISHED WITH 1/4" RADIUS EDGE UNLESS OTHERWISE NOTED.

3. DRIVEWAYS EXCEEDING 15' IN TOTAL WIDTH SHALL HAVE ADDITIONAL LONGITUDINAL JOINTS AS DIRECTED. CONTROL JOINT SPACING SHALL NOT EXCEED 15'.

4. DRIVEWAY SHALL BE CONSTRUCTED WITH REINFORCING STEEL, MINIMUM REQUIRED SHALL BE #4 REBAR @ 12" O.C WITH MIN. 3" COVER.

5. ALL EXISTING EDGES SHALL BE SAW CUT.

6. 4" DEPTH 5/8"=0 CRUSHED AGGREGATE BASE COMPACTED TO 95% OF MAX. DRY DENSITY.

7. SUBGRADE PREPARATION PER WSDOT STD. SPEC. 2-06.3(1).

8. EXISTING CURB SHALL BE REMOVED TO EXISTING JOINT OR SAWCUT SUCH THAT 3' MIN. OF NEW STREET SECTION IS CONSTRUCTED ADJACENT TO NEW DRIVEWAY.

9. MAXIMUM 2% CROSS SLOPE ACROSS PEDESTRIAN CROSSING.

10. CURB RADIUS TO BE 20-FOOT MINIMUM AND 35-FOOT MAXIMUM, AS APPROVED BY CITY ENGINEER.
Additional right of way width may be required for additional turn lanes, stormwater treatment facilities, side slopes, and/or otherwise required by WSDOT or the City of Ridgefield.

Additional on-site grading and/or construction of retaining walls outside the right-of-way may be required to match grade at right-of-way.

All new residential development shall be required to install brick, stone, or wrought iron fence at the right-of-way per city code.

Separate off-line facilities for treatment and detention of stormwater from the right-of-way are required and shall be located in separate tracts dedicated or donated to either WSDOT or the City.
PIONEER STREET (SR 501) FROM 32ND AVENUE TO 45TH AVENUE
CONCEPTUAL CROSS SECTION

Additional right of way width may be required for additional turn lanes, stormwater treatment facilities, side slopes, and/or otherwise required by WSDOT or the City of Ridgefield.

Additional on-site grading and/or construction of retaining walls outside the right of way may be required to match grade at right of way.

All new residential development shall be required to install brick, stone, or wrought iron fence at the right-of-way per city code.

Separate off-line facilities for treatment and detention of stormwater from the right-of-way are required and shall be located in separate tracts dedicated or donated to either WSDOT or the City.
METER BOX – 13” X 24” X 18”
LID TO HAVE “MOUSEHOLE” FOR TOUCH/RADIODIOREAD
AND HINGED READER LID

INSTALL 12 GAGE INSULATED
WIRE ON ENTIRE LENGTH

INSTALL METER BOX 4” BEHIND CURB OR BACK
BACK OF SIDEWALK AND FLUSH WITH GRADE

FINISHED STREET GRADE

24” MIN.
30” MAX.

10” Min.
12” Max.

(5/8” –)
FILL MATERIAL SHALL
BE USED IN METER
BOX ZONE TO
PREVENT SETTLING
AND INFILL.

DUAL PURPOSE NUT

(5/8” –) BEDDING MATERIAL

1” WATER SERVICE PIPE
200 PSI CTS POLY PIPE

METER SETTER – 1” COPPER
TUBING SIZE W/INLET LOCKING WING
ANGLE STOP, OUTLET ANGLE CHECK
VALVE, COMPRESSION INLET X
DUAL PURPOSE F.I.P.T. OUTLET, 15” HIGH.
SETTER SHALL BE FORD OR APPROVED EQUAL.
METER SETTER TO BE CENTERED IN METER BOX.

1” CORPORATION STOP, COMPRESSION X MUELLER THREAD, WITH DOUBLE STRAP
SADDLE. ALL PARTS MUELLER OR APPROVED
EQUAL. DUCTILE IRON PIPE MAINS 6” AND
LARGER MAY BE TAPPED DIRECT AT CITY
ENGINEERS DIRECTION.

N.T.S

NOTES:

1. METER BOX SHALL BE MANUFACTURED BY RAVEN PRODUCTS
   UNLESS OTHERWISE APPROVED

2. METER BOX IS NOT ALLOWED IN HARD SURFACE AREAS WITHOUT PRIOR APPROVAL. IF APPROVED THE METER
   BOX AND LID SHALL BE ARMORCAST H-20 RATED BOX AND LID WITH MASTIC INSTALLED BETWEEN THE METER
   BOX AND HARD SURFACE.

3. ALL METERS SHALL BE INSTALLED BY THE CITY OF RIDGEFIELD

4. PRIOR TO INSTALLATION OF METER A REQUEST FOR METER INSTALLATION MUST BE SUBMITTED, ALL SERVICE
   FEES PAID IN FULL AND THE WATER MAIN SHALL BE TESTED AND ACCEPTED BY THE CITY. ALLOW 1-2 WEEKS
   FOR METER INSTALLATION.

6. PRIOR TO FINAL OCCUPANCY OF BUILDING BACKFILL MUST BE PLACED AROUND METER BOX, THE BOX SET
   TO FINISHED GRADE AND SURROUNDING LANDSCAPING INSTALLED. CALL PUBLIC WORKS AT 887-8251 FOR
   FINAL INSPECTION PRIOR TO FINAL OCCUPANCY. ALLOW 48 HOURS FOR FINAL INSPECTION.

7. WATER SERVICES UP TO AND INCLUDING THE SETTER SHALL BE PRESSURE TESTED WITH THE MAIN.
NOTES:

1. ALL METERS SHALL BE INSTALLED BY THE CITY OF RIDGEFIELD.

2. PRIOR TO CITY INSTALLATION OF METERS, ALL SERVICE APPLICATIONS MUST BE COMPLETED AND APPROVED. SERVICE FEES PAID IN FULL AND AS-BUILTS SUBMITTED AND APPROVED.

3. CONTRACTOR SHALL CONTACT CITY PUBLIC WORKS OFFICE (360)887-8251 48 HOURS PRIOR TO INSTALLING ANY WATER SERVICE CONNECTIONS.

4. METERS WILL NOT BE SET BY THE CITY PRIOR TO DISINFECTION OF THE MAIN AND SERVICE, AND PRIOR TO A SUCCESSFUL BACTERIOLOGICAL TEST.

5. WATER SERVICES SHALL BE PRESSURE TESTED ALONG WITH THE MAIN.

6. DURING THE PRESSURE TEST, THE MAIN SHALL BE OPEN FOR INSPECTION OF ALL CORPORATION STOPS.

7. USE 1-7/8" BIT FOR ALL 2" SADDLE TAPS AND 1-3/8" BIT FOR 1-1/2" SADDLE TAPS.

8. METER BOX IS NOT ALLOWED IN HARD SURFACED AREAS WITHOUT PRIOR APPROVAL.
NOTE:

1. TEN PIPE DIAMETERS OF STRAIGHT PIPE REQ'D. IN & OUT OF METER. (IF USING 6" PIPE, NO BENDS ALLOWED WITHIN 5' OF THE METER IN EITHER DIRECTION. IE: 6" x 10 = 60")

2. CONTRACTOR SHALL USE APPROPRIATE METHODS TO ENSURE COPPER PIPE, FITTINGS AND JOINTS WILL REMAIN LEAK-TIGHT.

3. ALL METERS 3" AND LARGER SHALL BE INSTALLED BY THE CONTRACTOR.

4. METER BOX IS NOT ALLOWED WITHOUT PRIOR APPROVAL.

5. VAULT LID DRAINS TO BE PIPPED TO CURB OR STORM SEWER.

6. VAULT TO SEAL AND WATER TIGHT

7. METER TYPE TO BE APPROVED BY PUBLIC WORKS PRIOR TO INSTALLATION

REV. 4/7/17 BGK

VAULTS SHALL BE SIZED TO ALLOW FOR CLEARANCES.
UTILITY VAULT CO. R.C.P. VAULTS
#575-3660P W/#57-TL-B LID
#766.32
#676-3660P
NOTES:

1. FIRE HYDRANT INSTALLATIONS SHALL BE APPROVED BY THE CITY INSPECTOR PRIOR TO BACKFILLING.

2. FIRE HYDRANT LOCATIONS SHALL BE AS SHOWN ON THE PLANS. FIRE HYDRANTS SHALL NOT BE SET UNTIL LOCATION AND DEPTH ARE APPROVED BY THE CITY.

3. FIRE HYDRANT STANDARD BURY IS 4' UNLESS OTHERWISE NOTED ON THE PLANS.

4. A 4’x4’x4” CONCRETE PAD SHALL BE CENTERED AROUND THE FIRE HYDRANT.

5. CONCRETE PAD SHALL BE PLACED FLUSH W/BACK OF CURB OR SIDEWALK. EXPANSION JOINT MATERIAL SHALL BE PLACED BETWEEN THE CONCRETE PAD AND CURB/SIDEWALK.

6. ALL PIPING MUST BE RESTRAINED, WITHOUT EXCEPTION.

7. FIRE HYDRANTS SHALL BE FACTORY PAINTED WITH SAFETY YELLOW HIGH GLOSS EQUIPMENT ENAMEL. HYDRANT SHALL BE FRESHLY PAINTED PRIOR TO CITY ACCEPTANCE.

8. FIRE HYDRANT MAINS SHALL BE 8” MIN., A 6” MAIN CAN BE USED FOR A DEAD-END RUN OF LESS THAN 50’ TO A HYDRANT SUBJECT TO ADEQUATE FIRE FLOW.

9. NO BENDS SHALL BE ALLOWED ON FIRE HYDRANT RUNS.
LID AND 1/4" X 4" ROD STOCK TO BE CAST INTEGRALLY (NOT WELDED)

RAISED LETTER

CHANNEL DEPTH 3/4" TO 1" DEEP

CONCRETE OR ASPHALT PAD FOR VALVE BOXES NOT SET IN PAVED AREAS. (24" SQUARE, 4" THICK)

SEE NOTE #2

12" VALVE NUT (SEE NOTE 4)

6" PVC (SEE NOTE 1)

12 GA. INSULATED TRACER WIRE WRAP ON OUTSIDE OF EXTENSION PIPE AND BETWEEN VALVE BOX

NOTES:

1. EXTENSION SHALL BE 6" ASTM D 3034 SDR 35 PVC PIPE (ONE PIECE).

2. U.S FILTER/PACIFIC WATER WORKS NO. 910 OR EQUAL.

3. THERE SHALL BE 1/2" CLEARANCE UNDER THE PIN CAST INTO THE LID.

4. VALVE OPERATOR EXTENSION TERMINATING AT 24" BELOW FINISHED GRADE AND ROCK GUARD REQUIRED WHEN VALVE NUT IS DEEPER THAN 3 FEET.

STANDARD VALVE BOX AND COVER
NOTE:

1) PLACE VENT AND AIR RELEASE UNIT ASSEMBLY OUTSIDE OF HARD SURFACE AREA IN R.O.W. OR 15' EASEMENT DEDICATED TO THE CITY OF RIDGEFIELD.

2) MUST BE USED FOR ALL AIR RELEASE LOCATIONS UNLESS OTHERWISE APPROVED BY CITY ENGINEER.
NOTES:

1. VALVE BOX TO BE CONCRETE ENCASED AS SHOWN, IF NOT IN PAVED AREA.

2. BLOW-OFF UNIT SHALL BE BACKFILLED WITH 3/4"-0" CRUSHED ROCK AND COMPACTED TO 95% OF MAX. DENSITY DETERMINED BY AASHTO T-180.

3. PLACE BLOW-OFF STANDPIPE 3 FT. INSIDE R.O.W. LINE AT END OF STREET (2 FT. FROM BARRICADE).

<table>
<thead>
<tr>
<th>BLOW-OFF SIZES REQUIRED</th>
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</thead>
<tbody>
<tr>
<td>MAIN SIZE</td>
</tr>
<tr>
<td>&lt;12'</td>
</tr>
<tr>
<td>≥12'</td>
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REV 4/7/17 BGK

STANDARD BLOW-OFF ASSEMBLY

STANDARD DETAILS CITY OF RIDGEFIELD SHEET W-2.5
FIGURE "A"

<table>
<thead>
<tr>
<th>MAIN DIAMETER</th>
<th>BLOW-OFF DIAMETER</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;12&quot;</td>
<td>2&quot; MINIMUM</td>
</tr>
<tr>
<td>≥12&quot;</td>
<td>4&quot; MINIMUM</td>
</tr>
</tbody>
</table>

SQUARE HEAD PLUG WITH COUPLING HAND TIGHT ONLY

POUR THRUST BLOCK AGAINST UNDISTURBED SOIL. USE THE BEARING AREA OF A DEAD END MATCHING THE SIZE OF MAIN. (USE THE STANDARD THRUST BLOCK DETAIL FOR REFERENCE)

NOTE:
SIZE OF BLOWOFF DETERMINED BY SIZE AND LENGTH OF PIPE.

4"X4" NEW CEDAR BLOCK EACH SIDE OF PIPE AGAINST PLUG & CONC. BLOCKING. 8" & GREATER USE TREATED 12"X12" TIES.

STANDARD TEMPORARY BLOWOFF ASSEMBLY

N.T.S.
**Casing Sizing Requirements**

<table>
<thead>
<tr>
<th>Carrier Pipe</th>
<th>Minimum Casing Requirements</th>
<th>Wall Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>4”</td>
<td>16” A36 Steel</td>
<td>3/8”</td>
</tr>
<tr>
<td>6”</td>
<td>16” A36 Steel</td>
<td>3/8”</td>
</tr>
<tr>
<td>8”</td>
<td>24” A36 Steel</td>
<td>3/8”</td>
</tr>
<tr>
<td>10”</td>
<td>24” A36 Steel</td>
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<td>12”</td>
<td>24” A36 Steel</td>
<td>3/8”</td>
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<tr>
<td>16”</td>
<td>36” A36 Steel</td>
<td>5/8”</td>
</tr>
<tr>
<td>24”</td>
<td>48” A36 Steel</td>
<td>5/8”</td>
</tr>
</tbody>
</table>

**Notes**

1. Casing to be extended 5’ beyond any curb, walls, structures or footings.
2. Public and private mains shall be placed in separate casings.
3. Written permission from the owner of the railroad tracks is required prior to obtaining City of Ridgefield permits to proceed.
4. No private utilities shall be allowed in City of Ridgefield casings.

*Pipeline Seal and Insulator, Inc.*

REV. 2/06/08 SCH
PAINT GUARD POST RUSTOLEUM SAFETY YELLOW
BASE No. 288-14, COLOR CODE
AX-6732, T-4432, OR EQUAL.

NOTE:
CONCRETE GUARD POSTS SHALL BE INSTALLED
WHEN REQUIRED BY CITY ENGINEER
NOTES:

1. APPROVED DOUBLE CHECK VALVE ASSEMBLY (DCVA) TO LAY HORIZONTAL WITH GROUND. (VERTICAL ALLOWED IF APPROVED BY WA. DEPT. OF HEALTH)
2. DCVA MAY BE INSTALLED ABOVE OR BELOW GROUND PROVIDED ALL CLEARANCES ARE MET.
3. DESIGN FOR BACK SIPHONAGE AND BACK PRESSURE.
4. TEST COCKS TO EITHER FACE OUTWARDS OR UPWARDS FROM ASSEMBLY.
5. THOROUGHLY FLUSH LINES PRIOR TO INSTALLATION OF BACKFLOW PREVENTER.
6. DO NOT INSTALL IN AN AREA SUBJECT TO FLOODING.
7. DCVA MUST BE ACCESSIBLE.
8. PROTECT DCVA FROM FREEZING.
9. DCVA SHALL BE APPROVED BY THE STATE OF WASHINGTON DEPARTMENT OF HEALTH.
10. A PLUMBING PERMIT IS REQUIRED-CONTACT THE CITY PERMITS COUNTER.
11. DCVA MUST BE TESTED AFTER INSTALLATION, THEN ANNUALLY BY A WA. STATE CERTIFIED BACKFLOW TESTER. RESULTS SHALL BE SENT TO THE CITY PUBLIC WORKS OFFICE.
NOTES:

1. THE DCVA MAY BE INSTALLED ABOVE OR BELOW GROUND PROVIDED ALL CLEARANCES ARE MET.
2. APPROVED DCVA TO LAY HORIZONTAL WITH THE GROUND. (VERTICAL IF APPROVED BY DEPT. OF HEALTH)
3. DESIGNED FOR BACK SIPHONAGE AND BACK PRESSURE.
4. THE WATER LINE SHALL BE DISINFECTED, FLUSHED AND PRESSURE TESTED PRIOR TO INSTALLING THE BACKFLOW ASSEMBLY. THE DCVA SHALL BE PROTECTED FROM FREEZING AND FLOODING.
5. ALL PIPE, VALVE AND FITTING JOINTS, FROM SUPPLY MAIN, SHALL BE FLANGED OR RESTRANED.
6. PIPE ENTRANCE AND EXIT TO BE PROVIDED WITH LINK SEAL APPROVED EQUAL MECHANICAL SEAL.
7. ALL VAULTS SHALL BE PRE-APPROVED PRIOR TO INSTALLATION.
8. DCVA SHALL BE INSTALLED AT THE PROPERTY LINE OR EASEMENT LINE AND ON OWNER'S PROPERTY.
9. DCVA SHALL HAVE A MINIMUM OF 3' CLEARANCE FROM ALL STRUCTURES.
10. DCVA SHALL BE TESTED AFTER INSTALLATION AND PRIOR TO ACCEPTANCE AND ALSO YEARLY THEREAFTER BY A WASHINGTON STATE CERTIFIED BACKFLOW ASSEMBLY TESTER. TEST RESULTS SHALL BE SENT TO THE CITY PUBLIC WORKS OFFICE.
1. APPROVED REDUCED PRESSURE BACKFLOW ASSEMBLY (RPBA) TO LAY HORIZONTAL ONLY. (VERTICAL IF APPROVED BY DEPT. OF HEALTH)
2. DESIGNED FOR BACK SiphONAGE AND BACK PRESSURE.
3. THE WATER LINE SHALL BE DISINFECTED, FLUSHED AND PRESSURE TESTED PRIOR TO INSTALLING THE RPBA. THE RPBA SHALL BE PROTECTED FROM FREEZING AND FLOODING.
4. ALL PIPE, VALVES AND FITTING JOINTS FROM SUPPLY MAIN, SHALL BE FLANGED AND RESTRAINED.
5. PIPE ENTRANCE AND EXIT PROVIDED WITH LINK SEAL, OR APPROVED EQUAL MECHANICAL SEAL.
6. ALL ENCLOSURES SHALL BE PRE-APPROVED PRIOR TO INSTALLATION.
7. RPBA SHALL BE INSTALLED AT PROPERTY LINE OR EASEMENT LINE AND ON OWNER'S PROPERTY.
8. ADEQUATE GRAVITY DRAINAGE SYSTEM REQUIRED WITH APPROVED AIR GAP.
9. MINIMUM 24" CLEARANCE ON ALL SIDES AROUND RPBA.
10. THE RPBA SHALL BE TESTED AFTER INSTALLATION AND PRIOR TO ACCEPTANCE, ALSO YEARLY THEREAFTER BY A CERTIFIED BACKFLOW ASSEMBLY TESTER. TEST RESULTS SHALL BE SENT TO THE CITY PUBLIC WORKS OFFICE.
12. PROVIDE HEAT AND/OR INSULATION TO PREVENT FREEZING.
13. SUPPORT PIPE AND FITTINGS TO BE SCHEDULE 80 OR AS APPROVED BY CITY ENGINEER.

(ABOVE GROUND INSTALLATION ONLY)
NOTES:

1. APPROVED REDUCED PRESSURE BACKFLOW ASSEMBLY (RPBA) TO LAY HORIZONTAL WITH GROUND. (VERTICAL ALLOWED IF APPROVED BY WA. DEPT. OF HEALTH)

2. DESIGN RPBA FOR BACK SIPHONAGE AND BACK PRESSURE.

3. THOROUGHLY FLUSH LINES PRIOR TO INSTALLATION OF BACKFLOW PREVENTER.

4. DO NOT INSTALL IN AN AREA SUBJECT TO FLOODING.

5. RPBA MUST BE ACCESSIBLE.

6. PROTECT RPBA FROM FREEZING.

7. A PLUMBING PERMIT IS REQUIRED-CONTACT THE APPROPRIATE JURISDICTION’S PERMITS COUNTER

8. RPBA MUST BE TESTED AFTER INSTALLATION, THEN ANNUALLY BY A WA. STATE CERTIFIED BACKFLOW TESTER. RESULTS SHALL BE SENT TO THE CITY PUBLIC WORKS OFFICE.

9. RPBA SHALL BE APPROVED BY THE STATE OF WASHINGTON. A LIST OF THE APPROVED DEVICES IS AVAILABLE FROM THE DEPARTMENT OF HEALTH.

10. A CITY APPROVED VAULT AND LID REQUIRED. PROVIDE HEAT AND/OR INSULATION TO PREVENT FREEZING,

11. SUPPORT PIPES AND FITTINGS TO BE SCHEDULE 80 PVC OR, AS APPROVED BY THE CITY ENGINEER.

(ABOVE GROUND INSTALLATION ONLY)