MANHOLE FRAME & COVER WITH "SEWERS" CAST ON COVER WITH 3" HIGH RAISED LETTERS (NON-SKID PATTERN) AS MANUFACTURED BY "SATHER MANUFACTURING CO., INC." NO. 6024-R. 3 HOLE LOCKING FRAME AND COVER. ONE (1) BOLT HOLE TO BE CENTERED OVER LADDER

FIRST STEP
14" MIN.
18" MAX.

GROUT BETWEEN RINGS

POLYPROPYLENE MANHOLE STEPS NO. P-13938 LOCATED AT 12" O.C.

GROUT LIFT HOLES INSIDE AND OUTSIDE

POLYPROPYLENE LADDER (3' MAXIMUM LENGTH)

SEE NOTE 1

FLOW

SLOPE 3/8"/FT

GROUT FILL

FOUNDATION GRAVEL 8-INCH MINIMUM

UNDISTURBED EARTH

CHANNEL
3/4 PIPE DIA

NOTES:
1. PIPE CONNECTIONS TO MANHOLES SHALL BE AS FOLLOWS:
PVC PIPE: CAST OR GROUT A MANHOLE COUPLING INTO WALL. D.I. PIPE: BELL AND SPIGOT JOINT OR FLEXIBLE COUPLING EITHER SHALL BE 12" MAXIMUM DISTANCE FROM MANHOLE WALL. PVC AND D.I. PIPE, OPTIONAL: CORE THE MANHOLE AND CONNECT SEWER PIPE WITH A WATER TIGHT FLEXIBLE RUBBER BOOT IN MANHOLE WALL, KOR-N-SEAL BOOT OR EQUAL.

2. DROP OF GRADE THRU MANHOLE SHALL BE 0.10', UNLESS OTHERWISE REQUIRED/ APPROVED BY CITY ENGINEER.

3. LARGER MANHOLES WILL BE REQUIRED AT THE DISCRETION OF THE CITY ENGINEER BASED ON PIPE SIZE, NUMBER AND ORIENTATION OF PIPE(S).

4. INSTALL CONCRETE COLLAR. SEE DETAIL.

5. PRE-CHANELED MANHOLES ARE NOT ACCEPTABLE.

City of Pacific
Sanitary Sewer
Typical Precast Manhole

<table>
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<td>DATE: 8/98</td>
<td>DRAWN: JH</td>
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LOCATE MANHOLE FRAME AND COVER ON UPSTREAM SIDE OF MANHOLE AND TO THE SIDE OF CHANNEL ALIGN ONE BOLT HOLE OVER LADDER

POLYPROPYLENE NO. P-13938 MANHOLE STEPS

CHANNEL AS REQUIRED

SHORT PIPE SECTION AT MANHOLE (D.I. PIPE ONLY)

SLOPE SHOULDERS 3/8" PER FOOT

NOTE:
PIPE CONNECTIONS TO MANHOLES SHALL BE AS FOLLOWS:
PVC PIPE: CAST OR GROUT A MANHOLE COUPLING INTO WALL.
D.I. PIPE: BELL AND SPIGOT JOINT OR FLEXIBLE COUPLING.
EITHER SHALL BE 12" MAXIMUM DISTANCE FROM MANHOLE WALL.
PVC AND D.I. PIPE, OPTIONAL: CORE THE MANHOLE AND CONNECT SEWER PIPE WITH A WATER TIGHT FLEXIBLE RUBBER BOOT IN MANHOLE WALL, KOR-N- SEAL BOOT OR EQUAL.
ALL CONNECTIONS TO EXISTING MANHOLES SHALL BE MADE WITH A CONCRETE CORING MACHINE UNLESS OTHERWISE APPROVED BY THE CITY.

City of Pacific
Sanitary Sewer
Typical Manhole Plan

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SECTION

NOTE:
CONSTRUCT CONCENTRIC CONCRETE COLLARS AROUND ALL MANHOLE FRAMES LOCATED OUTSIDE OF PAVEMENT AREAS

MANHOLE FRAME COLLAR

City of Pacific

Sanitary Sewer
Manhole Frame Collar

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MANHOLE FRAME & COVER WITH "SEWERS"
CAST ON COVER WITH 3" HIGH RAISED LETTERS (NON-SKID PATTERN) AS MANUFACTURED BY "SATHER MANUFACTURING CO., INC." NO. 6024-R. 3 HOLE LOCKING FRAME AND COVER. ONE (1) BOLT HOLE TO BE CENTERED OVER LADDER

FIRST STEP
14" MIN
18" MAX.

GROUT BETWEEN RINGS

POLYPROPYLENE MANHOLE
STEPS NO. P-13938 LOCATED AT 12" O.C.

GROUT LIFT HOLES INSIDE AND OUTSIDE

POLYPROPYLENE LADDER (3' MAXIMUM LENGTH)

CUT OUT EXISTING PIPE, MAKE SMOOTH INVERT & CHANNEL AFTER NEW LINE IS ACCEPTED.

CAST IN PLACE CHANNEL & SHELF, 3000# PSI CONCRETE

8" MINIMUM

NOTES:
1. PIPE CONNECTIONS TO MANHOLES SHALL BE AS FOLLOWS:
PVC PIPE: CAST OR GROUT A MANHOLE COUPLING INTO WALL.
D.I. PIPE: BELL AND SPIGOT JOINT OR FLEXIBLE COUPLING EITHER SHALL BE 12" MAXIMUM DISTANCE FROM MANHOLE WALL.
PVC AND D.I. PIPE, OPTIONAL: CORE THE MANHOLE AND CONNECT SEWER PIPE WITH A WATER TIGHT FLEXIBLE RUBBER BOOT IN MANHOLE WALL. KOR-N-SEAL BOOT OR EQUAL.

2. DROP OF GRADE THRU MANHOLE SHALL BE 0.10', UNLESS OTHERWISE APPROVED BY CITY INSPECTOR.

3. INSTALL CONCRETE COLLAR.
SEE DETAIL

City of Pacific
Sanitary Sewer
Typical Saddle Manhole

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NOTES:

1. PIPE CONNECTIONS TO MANHOLES SHALL BE AS FOLLOWS:
   PVC PIPE: CAST OR GROUT A MANHOLE COUPLING INTO WALL.
   D.I. PIPE: BELL AND SPIGOT JOINT OR FLEXIBLE COUPLING
   EITHER SHALL BE 12" MAXIMUM DISTANCE FROM MANHOLE WALL.
   PVC AND D.I. PIPE, OPTIONAL: CORE THE MANHOLE AND
   CONNECT SEWER PIPE WITH A WATER TIGHT FLEXIBLE RUBBER
   BOOT IN MANHOLE WALL, KOR-N-SEAL BOOT
   OR EQUAL.

2. DROP OF GRADE THRU MANHOLE SHALL
   BE 0.10".

3. PRE-CHANNELED MANHOLES ARE
   NOT ACCEPTABLE.

4. CONSTRUCT CONCRETE COLLARS
   PER DETAILS.

City of Pacific

Typical Shallow
Precast Manhole

Approved by Public Works
Sub-Committee on
MANHOLE FRAME & COVER AS PER TYPICAL MANHOLE

FIRST STEP
14" MIN.
18" MAX.

POLYPROPYLENE MANHOLE STOPS NO. P-13938 AS PER TYPICAL MANHOLE

DUCTILE IRON MJ OR TYTON JOINT SEWER PIPE

PVC SEWER PIPE

10± TO UNDISTURBED EARTH

UNDISTURBED EARTH

DUCTILE IRON TO PVC TRANSITION COUPLING ROMAC No. 501 OR EQUAL

COMPACTED SELECT BACKFILL

CROWN ELEVATIONS OF INLET AND OUTLET PIPES SHALL BE EQUAL

No. 4 BAR AROUND BEND

3/4 PIPE DIA.

FOUNDATION GRAVEL 8-INCH MINIMUM

NOTES:

1. PIPE CONNECTIONS TO MANHOLES SHALL BE AS FOLLOWS:
   PVC PIPE: CAST OR GROUT A MANHOLE COUPLING INTO WALL.
   D.I. PIPE: BELL AND SPIGOT JOINT OR FLEXIBLE COUPLING
   EITHER SHALL BE 12" MAXIMUM DISTANCE FROM MANHOLE WALL.
   PVC AND D.I. PIPE, OPTIONAL: BORE THE MANHOLE AND
   CONNECT SEWER PIPE WITH A WATER TIGHT FLEXIBLE RUBBER
   BOOT IN MANHOLE WALL. KOR-N-SEAL BOOT OR EQUAL.

2. DROP OF GRADE THRU MANHOLE SHALL
   BE 0.10', UNLESS OTHERWISE APPROVED
   BY CITY INSPECTOR.

3. INSTALL CONCRETE COLLAR
   SEE DETAIL

4. PRE-CHAMELED MANHOLE ARE NOT ACCEPTABLE

SEE NOTE 3

FINISHED GRADE

4" X 24" PRECAST CONC.
ADJUSTMENT RINGS
2 RINGS REQUIRED
4 RINGS MAXIMUM
PLASTER INSIDE AND
OUTSIDE FACE WITH 1/2"
THICK GROUT

54" TO 24" OFFSET CONE

54" INSIDE DIAMETER (MINIMUM
PRECAST MANHOLE

RUBBER GASKET SEALING ELEMENT

CAST OR GROUT TEE & PIPE INTO MANHOLE WALL

1/2" X 2" FLAT BAR PIPE STRAPS, HOT DIP
GALVANIZED AFTER
FABRICATION LOCATE
AT 6'-0" O.C. WITH
1/2" EXPANSION BOLTS

SEE NOTE 1

City of Pacific
Sanitary Sewer
Inside Drop Manhole

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NOTES:

1. PIPE CONNECTIONS TO MANHOLES SHALL BE AS FOLLOWS:
   PVC PIPE: CAST OR GROUT A MANHOLE COUPLING INTO WALL.
   D.I. PIPE: BELL AND SPIGOT JOINT OR FLEXIBLE COUPLING
   EITHER SHALL BE 12" MAXIMUM DISTANCE FROM MANHOLE WALL.
   PVC AND D.I. PIPE, OPTIONAL: CORE THE MANHOLE AND
   CONNECT SEWER PIPE WITH A WATER TIGHT FLEXIBLE RUBBER
   BOOT IN MANHOLE WALL, KOR-N-SEAL BOOT
   OR EQUAL.

2. DROP OF GRADE THRU MANHOLE SHALL
   BE 0.10', UNLESS OTHERWISE APPROVED.
NOTE:
PAINT PORTION OF SERVICE MARKER THAT IS ABOVE FINISHED GRADE WITH WHITE PAINT. STENCIL WITH BLACK LETTERS "S/S" USING 3" HIGH LETTERS. LOCATE SERVICE MARKER AT END OF EACH SERVICE. STENCIL TOTAL LENGTH OF 2X4.

NOTES:
1. MAXIMUM DEFLECTION NOT TO EXCEED PIPE MANUFACTURER RECOMMENDATIONS.
2. SIDE SEWER LATERAL SHALL BE THE SAME MATERIAL AS THE MAIN LINE SEWER AND BEDDED THE SAME.
3. PIPE BEDDING PER WSDOT 9-03.12(3)
4. IF CLEAN-OUT IS WITHIN DrIVING SURFACE, A LOAD-BEARING CASTING & COVER SHALL BE USED IN LIEU OF 10" ROUND VALVE BOX.

Approved by Public Works
Sub-Committee on 1/30/01

City of Pacific
Sanitary Sewer
New Side Sewer

DRAWING NO.
SS-SS New

APPROVED:

DATE:
12/00

DRAWN:
KT

CHECKED:
DB

SCALE:
None
NOTE:
PAINT PORTION OF SERVICE MARKER THAT IS ABOVE FINISHED GRADE WITH WHITE PAINT. STENCIL WITH BLACK LETTERS "S/S" USING 3" HIGH LETTERS. LOCATE SERVICE MARKER AT END OF EACH SERVICE. STENCIL TOTAL LENGTH OF 2"4.

NOTES:
1. MAXIMUM DEFLECTION NOT TO EXCEED PIPE MANUFACTURER RECOMMENDATIONS.
2. SIDE SEWER LATERAL SHALL BE THE SAME MATERIAL AS THE MAIN LINE SEWER AND BEDDED THE SAME.
3. PIPE BEDDING PER WSDOT 9-03.12(3)
4. IF CLEAN-OUT IS WITHIN DRIVING SURFACE, A LOAD-BEARING CASTING & COVER SHALL BE USED IN LIEU OF 10" ROUND VALVE BOX.

Approved by Public Works Sub-Committee on 1/30/01

City of Pacific
Sanitary Sewer
Dual Side Sewer

DRAWING NO.
SS-Dual SS

APPROVED: ___________________ DATE: ________________

DATE: 12/00 DRAWN: KT CHECKED: DB SCALE: None

VARES
SEWER MAIN

6" TEE OR WYE ON SEWER MAIN

6" TEE ON SEWER MAIN

SEWER MAIN

6" SIDE SEWER

6" APPROVED WATERTIGHT SCREW CAP WITH 2" NUT

2x4x12' LONG SERVICE MARKER

11'

VARIABLE

PROPERTY LINE

FINISHED GRADE

CLEAN FREE-DRAINING GRAVEL

6" INSPECTION WYE WITH 45° BEND FITTING

PROPERTY LINE

TERMINATE WITH APPROVED WATERTIGHT PLUG (TYP.)

10" ROUND VALVE BOX, AT GRADE

6" WATERTIGHT SCREW CAP WITH 2" NUT PLACED 2" BELOW GRADE

6'-0" TYP.

VARIABLE

6'-0" TYP.

NOTE:
PAINT PORTION OF SERVICE MARKER THAT IS ABOVE FINISHED GRADE WITH WHITE PAINT. STENCIL WITH BLACK LETTERS "S/S" USING 3" HIGH LETTERS. LOCATE SERVICE MARKER AT END OF EACH SERVICE. STENCIL TOTAL LENGTH OF 2x4.

NOTES:
1. MAXIMUM DEFLECTION NOT TO EXCEED PIPE MANUFACTURER RECOMMENDATIONS.
2. SIDE SEWER LATERAL SHALL BE THE SAME MATERIAL AS THE MAIN LINE SEWER AND BEDDED THE SAME.
3. PIPE BEDDING PER WSDOT 9-03.12(3)
4. IF PROPERTY LINE FALLS WITHIN BAR DITCH, INSTALL CLEAN-OUT 18" OFF OF OUTSIDE DITCH SLOPE.
5. IF CLEAN-OUT IS WITHIN DRIVING SURFACE, A LOAD-BEARING CASTING & COVER SHALL BE USED IN LIEU OF 10" ROUND VALVE BOX.

City of Pacific
Sanitary Sewer
Side Sewer at Ditch

Approved by Public Works
Sub-Committee on 1/30/01

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<td>SCALE:</td>
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</table>
NOTE:

1. PAINT PORTION OF SERVICE MARKER THAT IS ABOVE FINISHED GRADE WITH WHITE PAINT.

2. TAP EXISTING SEWER MAIN WITH APPROVED CITY SADDLE INSTALL NEW SIDE SEWER TEE.

3. WHEN TAPPED SERVICE IS PERMITTED, CONTRACTOR SHALL PROVIDE SERVICE MAIN COUPON TO CITY STAFF.

4. SEE "TYPICAL SIDE SEWER DETAIL" FOR CONSTRUCTION IN NEW DEVELOPMENTS.

5. PROVIDE PEA GRAVEL PIPE BEDDING SEE TRENCH SECTION DETAIL.

City of Pacific
Sanitary Sewer
New Side Sewer in Existing Street

DATE: 8/98

APPROVED: JH
DRAWN: TJO
CHECKED: SS, EK
DIA. 50" ST Etch
SS East St
SS East St
Scale: None
Drawing No. SS-15

6'-0" MIN. TERMINATE WITH APPROVED WATERTIGHT PLUG (TYP.)

5'-0" MINIMUM WITH 45° BEND FITTING

12" 18"

FINISHED GRADE
PROPERTY LINE

2X4" TOL. SERVICE MARKER

6'-0" MIN. TERMINATE WITH APPROVED WATERTIGHT PLUG (TYP.)

5'-0" MINIMUM WITH 45° BEND FITTING
NOTES:

1. ELBOWS SHALL NOT BE GREATER THAN 45°
2. A CLEAN OUT IS REQUIRED FOR PIPE RUNS GREATER THAN 100' AND FOR EACH 90° ACCUMULATED BEND/100' OF LENGTH
3. RIGHT-OF-WAY RESTORATION SHALL MATCH OR EXCEED ORIGINAL CONDITIONS.
4. TRENCH BACKFILL BENEATH PAVED SURFACE SHALL BE 5/8" MINUS CRUSHED SURFACING TOP COURSE, COMPACTED IN 12" LIFTS
5. ALL PLUMBING OUTLETS SHALL BE CONNECTED TO THE SEWER. NO DOWNSPOUTS OR STORM DRAINAGE SHALL BE CONNECTED TO THE SANITARY SYSTEM.
6. 18" MINIMUM COVER ON ALL PIPES (PRIVATE PROPERTY) AND SLOPE @ 2% MINIMUM.
7. 5' MINIMUM PIPE COVER AT PROPERTY LINE
8. LAY PIPE IN STRAIGHT LINE BETWEEN BENDS. MAKE ALL CHANGES IN GRADE OR LINE WITH AN ELBOW OR WYE.
9. 6" SEWER PIPE MINIMUM SIZE IN RIGHT-OF-WAY. LAY AT 2% MINIMUM GRADE, 45% MAXIMUM GRADE.
10. 4" SEWER PIPE MINIMUM SIZE ON PRIVATE RESIDENTIAL PROPERTY. 6" SEWER PIPE MIN. SIZE ON COMMERCIAL PROPERTIES. 2% MINIMUM GRADE, 45' MAXIMUM.

11. CONSTRUCTION IN RIGHT-OF-WAY SHALL BE PERFORMED BY A REGISTERED LICENSED CONTRACTOR. ACQUIRE CITY PERMIT.
12. ALL CONSTRUCTION REQUIRES A PERMIT AND PAYMENT OF FEE. COMPLETE LEGAL DESCRIPTION OF PROPERTY AND DIMENSIONS.
13. AS-BUILT DRAWING SHOWING LOCATION OF SIDE SEWER IN RELATION TO THE HOUSE AND EXISTING UTILITIES IS REQUIRED AFTER INSTALLATION.
14. IF CLEAN-OUT IS WITHIN DRIVING SURFACE, A LOAD-BEARING CASTING & COVER SHALL BE USED IN LIEU OF 10" ROUND VALVE BOX.
FINISHED GRADE
6'-0" MINIMUM

6" DUCTILE IRON
MJ BEND

6" DUCTILE IRON
CLASS 52
SEWER PIPE

MJ X MJ X 6"
DUCTILE IRON TEE

D.I. SEWER MAIN

NOTE:
SEE TYPICAL TRENCH SECTION
FOR DUCTILE IRON SEWER PIPE

City of Pacific
Sanitary Sewer
Deep Side Sewer

DRAWING NO.
SS—SS Deep

APPROVED: 
DATE:
8/98

DRAWN: 
CHECKED: 
JH 
TJO

SCALE:
None
MANHOLE FRAME & COVER WITH "SEWERS" CAST ON COVER WITH 3" HIGH RAISED LETTERS (NON-SKID PATTERN) AS MANUFACTURED BY "SATHER MANUFACTURING CO., INC." NO. 6024-R. 3 HOLES LOCKING FRAME AND COVER. ONE (1) BOLT HOLE TO BE CENTERED OVER LADDER

FIRST STEP
14" MIN.
18" MAX.

GROUT BETWEEN RINGS

POLYPROPYLENE MANHOLE STEPS NO. P-13938 LOCATED AT 12" O.C.

GROUT LIFT HOLES INSIDE AND OUTSIDE

TAG AIR AND VACUUM UNIT NON POTABLE TRANSMISSION LINE

2" GATE VALVE TH X TH

POLYPROPYLENE LADDER

6" BLIND FLANGE, TAP FOR 2" AIR & VACUUM UNIT

SLOPE TO DRAIN
MJ TEE SIZE AS REQ'D WITH 6" FLANGE TEE

2" 90° BASE WITH 2" PIPE SUPPORT

NOTES:
1. PIPE CONNECTIONS TO MANHOLES SHALL BE AS FOLLOWS:
PVC PIPE: CAST OR GROUT A MANHOLE COUPLING INTO WALL.
D.I. PIPE: BELL AND SPIGOT JOINT OR FLEXIBLE COUPLING EITHER SHALL BE 12" MAXIMUM DISTANCE FROM MANHOLE WALL.
PVC AND D.I. PIPE, OPTIONAL: CORE THE MANHOLE AND CONNECT SEWER PIPE WITH A WATER TIGHT FLEXIBLE RUBBER BOOT IN MANHOLE WALL, KGR-N-SEAL BOOT OR EQUAL.
2. DROP OF GRADE THRU MANHOLE SHALL BE 0.10', UNLESS OTHERWISE APPROVED.
3. INSTALL CONCRETE COLLAR

See Note 3

FINISHED GRADE

4" X 24" PRECAST CONC. ADJUSTMENT RINGS
2 RINGS REQUIRED
4 RINGS MAXIMUM PLASTER INSIDE AND OUTSIDE FACE WITH 1/2" THICK GROUT

48" DIA. X 8" THICK CONCRETE SLAB
48" MIN. INSIDE DIAMETER PRECAST MANHOLE RUBBER GASKET SEALING ELEMENT

"APCO, CRISPIN OR VALMATIC" HEAVY-DUTY COMBINATION AIR AND VACUUM VALVE W/ STAINLESS STEEL INTERNALS & EPOXY COATING. SEATS SHALL BE SUPPLIED FOR THE FOLLOWING WORKING PRESSURES: 20 PSI, 20-150 PSI W/ FLUSHING ATTACHMENTS

SEE NOTE 1

FOUNDATION GRAVEL (8" MIN) UNDISTURBED EARTH

4" DIAMETER PVC DRAIN PIPE TO DAYLIGHT @ 2% SLOPE

City of Pacific
Sanitary Sewer
Air/Vacuum Release Valve Assembly

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PRESSURE DISCHARGE LINE:

1. FORD PACK JOINT COUPLER WITH INSERT STIFFENERS

2. SDR 7 HDPE TUBING

3. ALL POLY PIPE SPLICES SHALL BE MADE WITH A FORD PACK JOINT COUPLER

4. OR PUBLIC WORKS DEPARTMENT APPROVED EQUIVALENTS

5. A TRACER WIRE SHALL BE INSTALLED FROM PUMP TO GRAVITY CLEAN-OUT OR CONNECTION TO FORCEMAIN

6. THE DISCHARGE PIPE SHALL BE INSTALLED AT A MINIMUM DEPTH OF 24"

GRAVITY SIDE SEWER INLET:

1. 2% MINIMUM GRADE
2. 4" MINIMUM PVC SEWER PIPE
3. BUILDING CLEAN-OUT REQUIRED
RESIDENTIAL GRINDER PUMP STATION NOTES:

1. The packaged grinder pump lift station shall be
   "Environment One" Model 2010 (http://www.eone.com)
   or a Public Works Department approved equivalent

2. The pump station shall be accessible for maintenance and
   repair. Finished grade shall slope away from the pump station.
   The pump station is not to be located within low areas that
   may pond. Fences, plants, or any other object shall not hinder
   in the maintenance or repair of the pump station.

3. The Control/Alarm Panel shall be attached to the building. With
   City approval the Control Panel may be attached to a 3" X 8"
   galvanized pole with top cap, and set in concrete.

4. The Control/Alarm Panel shall be:
   A) Accessible for maintenance and repair
   B) In sight of the Pump Station
   C) The Alarm Light shall be visible from a 180 degree radius
   D) No fences, plants or other objects shall hide the Alarm Light from
      view

5. All electrical work shall conform to NEC Standards, and shall be
   inspected by a Washington State Electrical Inspector.

6. Grade must slope away from the pump station. No plants shall be
   placed within 5’ of the pump station.

7. Each building site shall have its own grinder pump station.

8. The property owner shall retain ownership and maintenance of the
   grinder pump station and associated lines to the property line gravity
   side sewer clean-out, or where the pressure line discharges to a City of
   Sumner owned gravity sewer clean-out, structure, or forcemain.

9. The property owner shall be responsible for any backups or spills due to
   power failure or pump and associated equipment failure.

10. Follow manufacturer’s instructions and installation procedures.
NOTE:
FRONT AND SIDE VIEWS SHOWN WITH GULLWING DOOR OPEN

CITY OF PACIFIC
TYPICAL GRINDER SEWER AIR RELEASE VALVE

APPROVED: ___________________________  DWG. NO. PS-3
BY CITY: ___________________________  DATE: _____________
DATE: 7/03  DRWN: PMX  CHKD: XX  SCALE: N.T.S.
NOTE:
2" & 3" VALVES MAY BE BELL x BELL
AT THE CONTRACTORS OPTION
NOTE:
THE VALVE MAY BE BELL x BELL
AT THE CONTRACTORS OPTION

CITY OF PACIFIC
PRESSURE SEWER CO/
2"–4" PIG LAUNCHER

APPROVED: ___________________________ DATE: ___________
BY CITY ___________________________ SCALE: N.T.S.
DATE: 7/03 DRWN: PMX CHKD: XX
DWG. NO. PS–11
ELEVATION A

CITY OF PACIFIC
PRESSURE SEWER
PIG PORT DETAIL (6" AND ABOVE)

APPROVED:  

DWG. NO.  PS-12A

BY CITY  

DATE  

DRWN:  PMX

CHKD:  XX

SCALE:  N.T.S.

DATE:  7/03
CITY OF PACIFIC
PRESSURE MAIN CLEANOUT (6" DIA. AND ABOVE)

MAINLINE CLEAN

30" RIBBED PVC RISER WITH FIBERGLASS BOLT ON INSULATED LID

REDUCER (GASKET x GASKET)

C.I. GATE VALVE (MJxMJ) DIAMETER SHALL MATCH UPSTREAM PIPE SIZE

MAINLINE PIPE IPS PVC W/ GASKET TYPE JOINTS

GATE VALVE (FLxFL) DIAMETER SHALL MATCH PIPE SIZE

PVC TEE (GASKETxGASKETxSL)

DATE: 7/03
DRWN: PMX
CHKD: XX
SCALE: N.T.S.

BY CITY
DATE
APPROVED:

DWG. NO.
PS-12B
NOTE:
CONTRACTOR SHALL PROVIDE 1 LAUNCHER FOR EACH PIG PORT INSTALLED. USE SCH 80 PVC UNO SOLVENT WELD ALL FITTINGS.
*LOCATION OTHER THAN GARAGE WALL OR REMOTE POST WILL BE CONSIDERED ON A CASE BY CASE BASIS.