NOTES:
1. REMOVE ALL MECHANICAL AND ELECTRICAL EQUIPMENT INCLUDING BUT NOT LIMITED TO PUMPS, VALVES, CONDUITS, PANELS, AND LADDER FROM DRY WELL. REMOVE ACCESS TUBE TO DRAIN DRY WELL. REMOVE DRY WELL FLOOR AND BACKFILL. FILL DRY WELL WITH SAND. BACKFILL AND COMPACT TOP COARSE TO MATCH EXISTING GRADE.
2. BACKGROUND IS FROM DRAWING DATED 4/1/70. CONTRACTOR SHALL CONFIRM DRAWING DETAIL PRIOR TO CONSTRUCTION.
3. DEMOLITION OF EXISTING PUMP STATION SHALL ONLY OCCUR AFTER THE WET WELL MOUNTED VACUUM PRIME STATION HAS BEEN TESTED AND COMMISSIONED.
4. REMOVE TOP SECTION OF WET WELL.
5. CUT PIPE FLUSH WITH INSIDE WALL AND FILL WITH A MINIMUM OF 2'-0" OF NON-SHRINK GROUT.
6. REMOVE CONCRETE PAD.

LEGEND:
- DEMOLISH
- NON-SHRINK GROUT
NOTE:
1. ALL NON-EXCEPTED ITEMS SHOWN ON THIS DRAWING, EXCEPT FOR ITEMS NOTED AS BEING SUPPLIED BY THE CONTRACTOR, WILL BE PROVIDED BY THE OWNER THROUGH A GOODS AND SERVICES PURCHASE PACKAGE WITH SMITH AND LOVELESS. ALL NEW ITEMS ON THIS DRAWING SHALL BE INSTALLED BY THE CONTRACTOR.

2. ALL FORCE MAIN JOINTS SHALL BE RESTRAINED.

CONTRACTOR SHALL PROVIDE AND INSTALL WET WELL RISER(S) AS NECESSARY SUCH THAT WET WELL IS A MINIMUM OF 2" ABOVE ADJACENT GRADE. CONTRACTOR SHALL CONFIRM EXISTING RISER JOINT TYPE PRIOR TO ORDERING NEW RISER(S).

CONTRACTOR SHALL PROVIDE AND INSTALL PUMP SUCTION AND DISCHARGE PIPING IN THE WET WELL AND DISCHARGE PIPING LEAVING THE STATION. MATCH INVERT OF EXISTING FORCE MAIN.


WET WELL DIAMETER AND CONCRETE FILLETS ARE SHOWN SCHEMATICALLY. SEE SHEET D1 FOR ORIGINAL STATION DRAWING INFORMATION.

ALL EXPOSED METALS AND HARDWARE IN WET WELL SHALL BE 316 STAINLESS STEEL.

CONTRACTOR SHALL SUPPLY AND INSTALL NON-SHRINK GROUT PER PUMP STATION MANUFACTURER RECOMMENDATIONS.
INSTALLATION DETAILS

TYPICAL WET WELL MOUNTED PUMP STATION

SUCTION PIPE CONNECTION

USE GASKETS AND SEALANT PROVIDED WITH STATION FOR BUBBLE TIGHT CONNECTION. SEE O&M MANUAL FOR DETAILS.

GROUTING STATION TO WET WELL

PRIOR TO SETTING THE STATION ON TOP OF THE WET WELL, APPLY A LAYER OF NON-SHRINK OR EPOXY GROUT ON THE TOP SURFACE OF THE WET WELL. THE STATION WILL THEN BED DOWN IN THE GROUT, GIVING THE STATION FIRM SUPPORT AND REDUCING NOISE TRANSMISSIONS. THE BASE PLATE SHOULD BE LEVEL IN ALL DIRECTIONS WHEN COMPLETE.

ANCHORING DISCHARGE CONNECTION

THE DISCHARGE IS TO BE ORIENTED IN ACCORDANCE WITH THE ENGINEER'S PLAN. GENERALLY, SMITH & LOVELESS, INC. WILL PROVIDE A COMPRESSION TYPE COUPLING TO JOIN THE FORCE MAIN TO THE STATION DISCHARGE PIPE. COMPRESSION TYPE COUPLINGS DO NOT PROVIDE PIPE END RESTRAINT. TWO LUGS ARE ALSO PROVIDED ONE ON EITHER SIDE OF THE DISCHARGE ON THE UNDERSIDE OF THE BASEPLATE FOR SECURING THE VERTICAL SECTION OF THE DISCHARGE PIPE FROM SEPARATING IN THE COUPLING. TIE THE DISCHARGE PIPE TO THE STATION TO PREVENT SEPARATION FROM THE COUPLING IN THE VERTICAL DIRECTION BY USING AN ALL-THREADED ROD, CABLE OR CHAIN (NOT SUPPLIED BY S&L). THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ADEQUATE RESTRAINT AGAINST ANY HORIZONTAL THRUST DEVELOPED. THE RESTRAINT SHALL BE TIED TO THE STRUCTURE AS THE STATION BASEPLATE IS NOT DESIGNED TO WITHSTAND HORIZONTAL THRUST FORCES. ALL DISCHARGE PIPES SHOULD BE SECURED.

MANWAY LOCKING DETAIL

SEE O&M MANUAL FOR MANWAY LOCKING LOOP INSTALLATION DETAILS.

GENERAL WETWELL COMMENTS

THE WETWELL SHOULD BE INSTALLED SO THE TOP REMAINS AS LEVEL AS POSSIBLE. CONTRACTOR IS TO INSTALL SLOPES AROUND THE INTERIOR BOTTOM CORNER OF THE WETWELL.

NOTE

1. DRAINAGE IS GENERAL AND WAS PROVIDED BY SMITH AND LOVELESS FOR THE EVERLAST 3000 SERIES WITH DWG NO. 87B761 AND APPROVED DATE OF 1/12/2016.

NOTE

IF NOT, SCALE ACCORDINGLY ONE INCH AT FULL SCALE.
NOTES:
INSTALL NEW ABOVE GROUND PUMP SKID WITH (2) 10HP 240V, 3PH MOTORS. SKID SYSTEM INCLUDES SELF CONTAINED CONTROL PANEL.
INSTALL NEW ABOVE GROUND PUMP SKID WITH (2) 10HP 240V, 3PH MOTORS. SKID SYSTEM INCLUDES SELF CONTAINED CONTROL PANEL.

TACOMA BOULEVARD
PUMP STATION UPGRADE
PACIFIC, WASHINGTON
ONE-LINE DIAGRAM

CONDUIT AND WIRE SCHEDULE

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<thead>
<tr>
<th>CONDUIT AND WIRE SCHEDULE</th>
<th>CABLE SIZE &amp; QUANTITY</th>
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NOTES:
- SKID CONTROL PANEL PROVIDED BY SMITH & LOVELESS, MOUNTED ON PUMP SKID.