ISSUED FOR BIDDING

# CITY OF KIRKLAND

# TEMPORARY REGIONAL BOOSTER PUMP STATION

# HIGHLANDS TEMPORARY REGIONAL BOOSTER PUMP STATION

JOB NO. 02-26-PW

**WINTER 2026**

WAC0570003

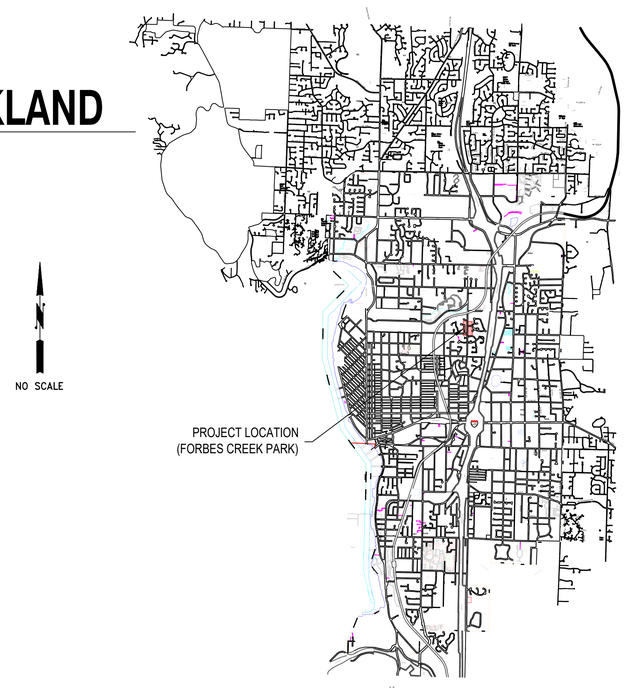
## CITY OFFICIALS

| | |
|---|---|
| KELLI CURTIS | MAYOR |
| NEAL BLACK | DEPUTY MAYOR |
| JAY ARNOLD | COUNCIL MEMBER |
| SHILPA PREM | COUNCIL MEMBER |
| AMY FALCONE | COUNCIL MEMBER |
| JOHN TYMCZYSZYN | COUNCIL MEMBER |
| JON PASCAL | COUNCIL MEMBER |
| KURT TRIPLETT | CITY MANAGER |
| JULIE UNDERWOOD | PUBLIC WORKS DIRECTOR |
| ROB ENGLISH, PE | CAPITAL PROJECTS MANAGER |

## CONTACT PERSONNEL

| NAME | AGENCY | PHONE |
|---|---|---|
| I-WEN YANG, PE | COK PROJECT ENGINEER | 425.587.3832 |
| NICK SONDERGAARD | COK PROJECT MANAGER | 425.577.3144 |
| STEVE HOOPES | COK FIELD REPRESENTATIVE | 425.623.5086 |
| REBEKAH HEDAHL | PUGET SOUND ENERGY (ELECTRIC) | 425.941.2910 |
| KIARA SKYE | PUGET SOUND ENERGY (GAS) | 425.213.9205 |
| RUSTY PERDIEU | ZAYO | 706.889.6967 |
| CHRIS COMBS | COMCAST CABLE | 425.273.7832 |
| CHERYL SCHNEIDER | ZIPLY FIBER | 425.949.0230 |
| SCOTT CHRISTENSON | VERIZON BUSINESS | 425.471.1079 |
| | NORTHSHORE UTILITY DISTRICT | 425.398.4400 |
| | WOODINVILLE WATER DISTRICT | 425.487.4104 |
| | KING COUNTY METRO | 425.477.1140 |
| | LAKE WASH. SCHOOL DISTRICT | 425.936.1133 |
| EMERGENCY | NORCOM | 911 |
| POLICE MAIN LINE | COK | 425.587.3400 |
| FIRE MAIN LINE | COK | 425.864.3650 |
| SPILL RESPONSE HOTLINE | COK | 425.587.3900 |
| ONE CALL UTILITY LOCATE | | 800.424.5555 |

## KIRKLAND




**CALL 48 HOURS BEFORE YOU DIG**
**ONE CALL 811**

**REPORT ALL SPILLS**
**DEPT. OF ECOLOGY 1-800-258-5990**

# INDEX OF DRAWINGS

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PLOT DATE: 3/17/2026
DWG NAME: TRBPS-D-COVKIR.DWG

# GENERAL NOTES

1. ALL WORKMANSHIP, CONSTRUCTION AND MATERIALS SHALL BE PERFORMED OR SUPPLIED IN ACCORDANCE WITH THESE SPECIAL PROVISIONS, PLANS, CITY STANDARD DETAILS, AND THE WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, 2025 EDITION, AS ISSUED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND THE AMERICAN PUBLIC WORKS ASSOCIATION, WHICH IS HEREINAFTER REFERRED TO AS THE STANDARD SPECIFICATIONS.
2. A PRECONSTRUCTION CONFERENCE IS REQUIRED PRIOR TO CONSTRUCTION, AND 48 HOURS ADVANCE NOTIFICATION PRIOR TO ACTUAL START OF WORK IS REQUIRED.
3. THE EXISTING TOPOGRAPHIC AND PHYSICAL FEATURES SHOWN ON THESE PLANS ARE BASED ON A FIELD SURVEY BY DUANE HARTMAN & ASSOCIATES, CITY OF KIRKLAND GIS RECORDS, AND FIELD RECONNAISSANCE BY RH2 ENGINEERING.
4. THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLANS WERE OBTAINED FROM AVAILABLE RECORDS BUT HAVE NOT BEEN EXPOSED AND MEASURED. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING WORK TO AVOID DAMAGE OR DISTURBANCE, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UNDERGROUND UTILITIES. IT IS UNDERSTOOD THAT OTHER ABOVE GROUND AND UNDERGROUND FACILITIES NOT SHOWN ON THE PLANS MAY BE ENCOUNTERED DURING THE COURSE OF THE WORK.
5. THE CONTRACTOR SHALL PROTECT BUILDINGS, FENCES, APPURTENANCES, ABOVE GROUND UTILITIES, AND OTHER PROPERTY ADJACENT TO ALL CONSTRUCTION AREAS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR REPAIRING ALL DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES.
6. IN ACCORDANCE WITH THE DEPARTMENT OF ECOLOGY AIR QUALITY STANDARDS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING ALL FUGITIVE DUST THAT MAY BE GENERATED BY THE CONSTRUCTION PROJECT.
7. THE CONTRACTOR SHALL CONTAIN WORK TO WITHIN RIGHT-OF-WAY OR CITY OF KIRKLAND PROPERTY AS ILLUSTRATED IN THE PLANS.
8. FORBES CREEK PARK SHALL **NOT** BE USED BY CONTRACTOR FOR STAGING, MATERIALS LAYDOWN, OR EQUIPMENT STORAGE.
9. THE CONTRACTOR SHALL SECURE NECESSARY PERMITS PRIOR TO STARTING CONSTRUCTION EXCEPT FOR THE ELECTRICAL AND PLUMBING PERMIT. CITY TO SECURE ELECTRICAL AND PLUMBING PERMITS. SEE SPECIAL PROVISIONS FOR FURTHER INFORMATION REGARDING PERMITS.
10. ONSITE EROSION CONTROL MEASURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND BE IN PLACE PRIOR TO CONSTRUCTION. ANY PROBLEMS OCCURRING BEFORE FINAL ACCEPTANCE BY THE CITY SHALL BE CORRECTED BY THE CONTRACTOR. UNLESS DIRECTED BY THE ENGINEER OR THE CITY, THE CONTRACTOR SHALL LEAVE ALL EROSION CONTROL MEASURES IN PLACE FOLLOWING FINAL ACCEPTANCE.
11. ANY REVISIONS TO PLANS MUST BE MADE BY THE ENGINEER AND APPROVED BY THE CITY PRIOR TO ANY IMPLEMENTATION IN THE FIELD.
12. ALL PAVEMENT MARKINGS AND SIGNING SHALL CONFORM TO THE REQUIREMENTS OF THE MUTCD.
13. A COPY OF THE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
14. WHERE NEWLY CONSTRUCTED PAVING MEETS EXISTING PAVING, THE CONTRACTOR SHALL SAW CUT OR OVERLAY AND FEATHER NEW PAVEMENT TO PROVIDE A SMOOTH TRANSITION FROM EXISTING TO PROPOSED PAVING. APPLICATION OF A THIN TACK COAT OF EMULSIFIED ASPHALT SHALL BE APPLIED TO INSURE PROPER BONDING.
15. THE COMPLETED SURFACE OF ALL COURSES SHALL BE OF UNIFORM TEXTURE, SMOOTH, UNIFORM AS TO CROWN AND GRADE, AND FREE FROM DEFECTS OF ALL KINDS. THE COMPLETED SURFACE OF THE WEARING COURSE SHALL NOT VARY MORE THAN 1/8 INCH FROM THE LOWER EDGE OF A 10-FOOT STRAIGHTEDGE PLACED ON THE SURFACE PARALLEL TO THE CENTERLINE. THE TRANSVERSE SLOPE OF THE COMPLETED SURFACE OF THE WEARING COURSE SHALL VARY NOT MORE THAN 1/4 INCH IN 10- FEET FROM THE RATE OF TRANSVERSE SLOPE SHOWN ON THE PLANS.
16. MATERIALS SAMPLING AND TESTING SHALL BE AT A FREQUENCY AND MAGNITUDE AS SPECIFIED IN THE STANDARD SPECIFICATIONS OR DETERMINED BY THE ENGINEER. A PRIVATE AND INDEPENDENT TESTING LABORATORY SHALL PERFORM TESTING AND SAMPLING. CERTIFIED TEST REPORTS SHALL BE FURNISHED FOR ALL TESTS PERFORMED BY PRIVATE TESTING LABORATORIES. THE CITY WILL BE RESPONSIBLE FOR ACCEPTANCE TESTING.
17. ALL CONTRACTORS WORKING WITH AC PIPE MUST BE STATE-CERTIFIED. THE CONTRACTOR SHALL PROVIDE PROTECTIVE CLOTHING AND EQUIPMENT (COVERALLS, GLOVES, BOOTS, HEAD COVERING, GOGGLES, RESPIRATORS, ETC.) TO CREWS WORKING WITH ASBESTOS CEMENT PIPE IN ORDER TO ASSURE THE WORKER'S EXPOSURE TO ASBESTOS MATERIAL IS AT OR BELOW THE LIMITS PRESCRIBED IN WAC 296-62-07705.

# EXISTING LEGEND

| | | | |
|---|---|---|---|
| | SIDEWA LK CONCRETE | | SIGN |
| | LANDSCAPING (SOD, PLANTINGS) | | TREE (CONIFER) |
| | ROADWAY ASPHALT AREA | | IRRIGATION VALVE |
| | ROADWAY CONCRETE AREA | | WATER METER |
| | ROADWAY CURB | | POWER POLE |
| | TOPO DITCH | | TELEPHONE POLE |
| TV | UNDERGROUND CABLE | | ROCK FACING |
| | PROPERTY LINE | | MAILBOX |
| SS | SANITARY SEWER | | SANITARY SEWER MANHOLE |
| W | WATER LINE | | CATCH BASIN (ROUND) |
| OHP | OVERHEAD POWER | | CATCH BASIN (RECTANGULAR) |
| P | UNDERGROUND POWER | M | MAG NAIL CONTROL POINT |
| ST | STORM DRAIN LINE | | STREET LIGHT ASSEMBLY |
| FO | FIBER OPTIC LINE | | |
| G | NATURAL GAS | | |
| X X | CHAINLINK FENCE | | |
| OHT | OVERHEAD TELEPHONE | | |
| | RIGHT OF WAY EASEMENT | | |
| | RIGHT OF WAY CENTERLINE | | |
| | RIGHT OF WAY LINE | | |

# PLAN DRAWINGS GENERAL SYMBOLOGY

## SECTION AND DETAIL REFERENCES

THE FOLLOWING CONVENTIONS HAVE BEEN USED WITHIN THESE DRAWINGS TO REFER THE READER BETWEEN THE SECTION/DETAIL AND THE PLAN FROM WHICH IT IS REFERENCED.

REFERENCE BUBBLES

X / X000 — PLAN REFERENCE BUBBLE - REFERS READER BACK TO THE PLAN FROM WHICH THE DETAIL OR SECTION ORIGINATED.

X / X000 — DETAIL/SECTION REFERENCE BUBBLE - REFERS READER TO THE DRAWING ON WHICH THE DETAIL OR SECTION IS LOCATED.

WHERE, ID = SECTION/DETAIL REFERENCE NUMBER
## = DRAWING NUMBER ON WHICH DETAIL ORIGINATED OR RESIDES.

# ABBREVIATIONS

| | | | |
|---|---|---|---|
| Ø , DIA | NOMINAL DIAMETER | OF | OUTSIDE FACE |
| BO | BLOW OFF | PE | PLAIN END OR POLYETHYLENE |
| CPP | CORRUGATED PLASTIC PIPE | RJ | RESTRAINED JOINT (SEE SPECIFICATIONS) |
| DI | DUCTILE IRON | RST | REINFORCING STEEL |
| EW | EACH WAY | RT | RIGHT |
| FL | FLANGED | SC | SCREWED OR THREADED |
| FNTP | NATIONAL PIPE TAPERED THREAD (FEMALE) | SS , SST | STAINLESS STEEL |
| ID | INSIDE DIAMETER | STA | STATION |
| IF | INSIDE FACE | STL | STEEL |
| LT | LEFT | TEMP | TEMPORARY |
| LTF | LENGTH TO FIT | TESC | TEMP EROSION & SEDIMENTATION CONTROL |
| MI | MERCER ISLAND | TYP | TYPICAL |
| MJ | MECHANICAL JOINT | W/ | WITH |
| MNTP | NATIONAL PIPE TAPERED THREAD (MALE) | W/O | WITHOUT |
| MT | MALE THREAD | # | NUMBER OR POUND (LB) |
| OC | ON CENTERS | | |
| OD | OUTSIDE DIAMETER | | |

# SUBSURFACE UTILITY LEGEND

POTHOLE LOCATION AND ID — PH#

| | |
|---|---|
| W W W | QUALITY LEVEL A |
| W W W | QUALITY LEVEL B |
| W W | QUALITY LEVEL C |
| W W | QUALITY LEVEL D |

THE CLASSIFICATIONS FOR SUBSURFACE UTILITIES ARE OUTLINED AND EXPLAINED IN THE FOLLOWING LIST:

UTILITY QUALITY LEVEL A. - PRECISE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES OBTAINED BY THE ACTUAL EXPOSURE OF (OR VERIFICATION OF PREVIOUSLY EXPOSED AND SURVEYED UTILITIES) AND SUBSEQUENT MEASUREMENT OF SUBSURFACE UTILITIES, USUALLY AT A SPECIFIC POINT. UNLESS OTHERWISE NOTED, QUALITY LEVEL A IS ONLY APPLICABLE AT POTHOLED LOCATIONS ON THE PLANS AT ALL OTHER AREAS, THE UTILITY SHOULD BE ASSUMED TO BE QUALITY LEVEL B.

UTILITY QUALITY LEVEL B - INFORMATION OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF SUBSURFACE UTILITIES.

UTILITY QUALITY LEVEL C - INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES.

UTILITY QUALITY LEVEL D - INFORMATION DERIVED FROM EXISTING RECORDS OR ORAL RECOLLECTIONS.

NOTE: THE USE OF THE LINETYPES PROVIDED ABOVE WAS A PRIMARY METHOD FOR INDICATING THE ACCURACY OF THE UTILITIES SHOWN WITHIN THESE PLANS. WHEN THE SOURCE OF THE INFORMATION WAS UNKNOWN OR THE METHOD FOR LOCATING THE UTILITIES WAS UNAVAILABLE, QUALITY LEVEL D WAS USED AS THE DEFAULT.

# PIPE LENGTH MEASUREMENTS

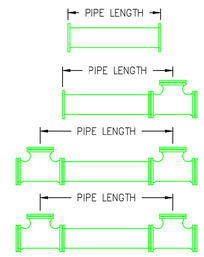
PIPE LENGTHS CALLED OUT ON PLANS ARE MEASURED AS FOLLOWS:

FLANGE x FLANGE (FLxFL) PIPE MEASURED FROM FACE OF FLANGE TO FACE OF FLANGE.

FLANGE x PLAIN END (FLxPE) PIPE MEASURED FROM FACE OF FLANGE TO CENTER OF FITTING.

PLAIN END x PLAIN END (PExPE) PIPE MEASURED FROM CENTER OF FITTING TO CENTER OF FITTING.

RESTRAINED JOINT x RESTRAINED JOINT (RJxRJ) PIPE MEASURED FROM CENTER OF FITTING TO CENTER OF FITTING.




FITTINGS ARE ASSUMED TO BE STANDARD LENGTH 125#, 250# FLANGED OR COMPACT CLASS 350 MECHANICAL JOINTS. CONTRACTOR RESPONSIBLE FOR VERIFYING LENGTHS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO TAKE INTO ACCOUNT ANY VARIATIONS IN FITTING DIMENSIONS.

# NORTHING AND EASTING CALLOUT POINTS


RH2

RYAN J. FESSENDEN — STATE OF WASHINGTON — 49451 — REGISTERED PROFESSIONAL ENGINEER

SIGNED: 3/18/2026

CITY OF KIRKLAND
HIGHLANDS TRBPS: TEMPORARY BOOSTER PUMP STATION

GENERAL NOTES

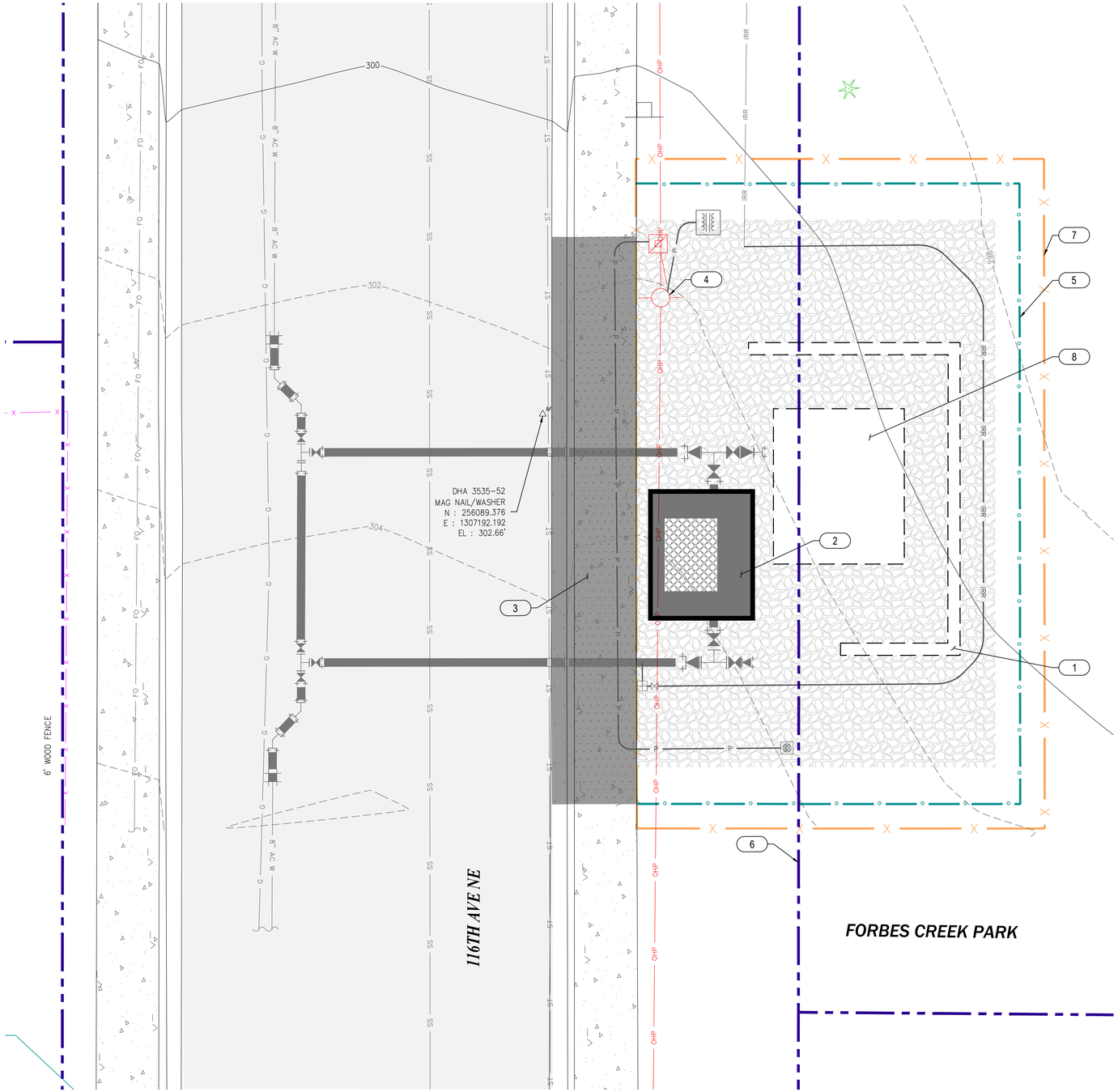
| | |
|---|---|
| JOB NO: | 026-0018 |
| CLIENT: | KIR |
| FILENAME: | TRBPS-D-GEN.DWG |
| SAVE DATE: | Mar 16, 2026 |
| PLOT DATE: | Mar 17, 2026 |
| ENGINEER: | CKB |
| REVIEWED: | RJF |

REVISIONS

| NO. | DATE | DESCRIPTION | BY | REVIEW |
|---|---|---|---|---|
| 1 | 3/18/2026 | ISSUED FOR BIDDING | CKB | RJF |

SCALE: SHOWN
0" 1" 2"
DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

DWG NO.: G01
SHEET NO.: 2
16



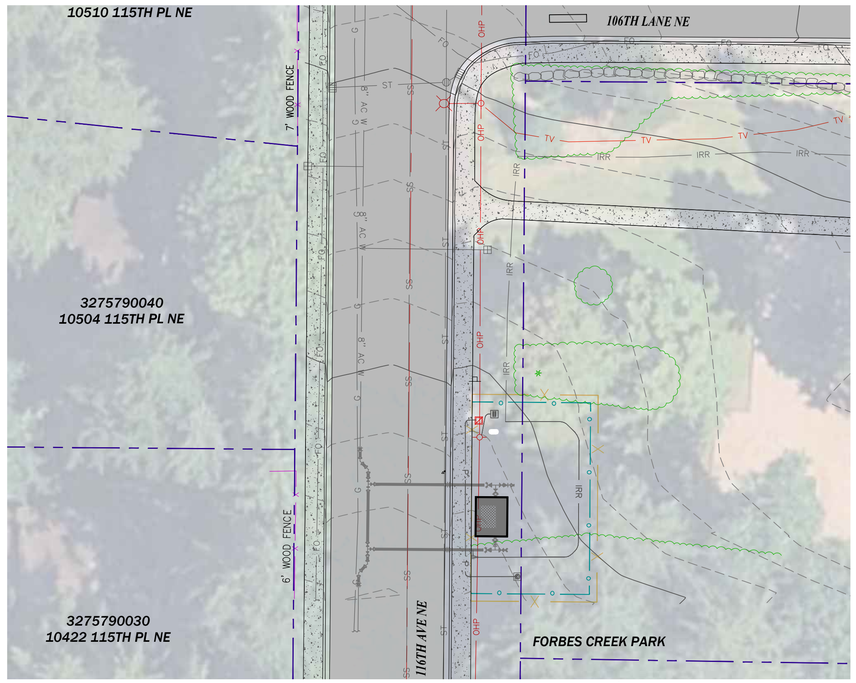

## TRBPS TESC AND DEMOLITION PLAN

1" = 5'

## DEMOLITION NOTES

1. REMOVE CRUSHED ROCK AND EXCAVATE FOR RETAINING WALL LEVELING PAD PER DWG NO. C03.
2. DO NO DISTURB EXISTING VAULT. COORDINATE WITH CHECK VALVE STATION CONTRACTOR AND CITY PRIOR TO PERFORMING CONSTRUCTION ACTIVITIES THAT INTERFERE WITH VAULT ACCESS.
3. TEMPORARY ASPHALT SIDEWALK TO BE USED AS CONSTRUCTION ENTRANCE. DO NOT DISTURB EXISTING CONCRETE CURB AND GUTTER OR SIDEWALK BEYOND EXTENTS OF TEMPORARY SIDEWALK.
4. DO NOT DISTURB EXISTING UTILITY OVERHEAD LINES. MAINTAIN TEN FEET OF CLEARANCE BETWEEN CONSTRUCTION EQUIPMENT/LOAD AND LINES AT ALL TIMES.
5. SILT FENCE INSTALLED UNDER THE CHECK VALVE STATION PROJECT (SEPARATE CONTRACT) AND TO REMAIN ON SITE FOLLOWING THE DEMOBILIZATION OF THE CHECK VALVE STATION CONTRACTOR. MAINTAIN SILT FENCE AS REQUIRED ONCE CHECK VALVE STATION CONTRACTOR HAS DEMOBILIZED.
6. ALL CONSTRUCTION ACTIVITIES SHALL REMAIN WITHIN CITY RIGHT OF WAY OR ON CITY PROPERTY AND WITHIN THE SITE SECURITY FENCING EXCEPT FOR SITE RESTORATION INCLUDING FINE GRADING AND SOD INSTALLATION. SEE DWG NO. C04 FOR ADDITIONAL INFORMATION ON SITE RESTORATION.
7. SITE SECURITY FENCE INSTALLED UNDER THE CHECK VALVE STATION PROJECT (SEPARATE CONTRACT) AND TO REMAIN ON SITE FOLLOWING THE DEMOBILIZATION OF THE CHECK VALVE STATION CONTRACTOR. MAINTAIN SITE SECURITY FENCE AS REQUIRED ONCE CHECK VALVE STATION CONTRACTOR HAS DEMOBILIZED. STABILIZE FENCE ON SLOPES AS NEEDED DURING CONSTRUCTION.
8. REMOVE CRUSHED ROCK AS NEEDED AND REGRADE FOR BOOSTER PUMP STATION CONCRETE PAD PER DWGs NO. C03 AND S02.

*ALL MATERIALS SHALL BE PROPERLY DISPOSED OF AT A CONTRACTOR-PROVIDED DISPOSAL SITE PER WSDOT SPECIFICATION SECTION 3-03.3(7)C.




## EXISTING SITE VICINITY MAP

1" = 20'

RH2

RYAN J. FESSENDEN
STATE OF WASHINGTON
49451
REGISTERED PROFESSIONAL ENGINEER

SIGNED: 3/18/2026

**CITY OF KIRKLAND**

**HIGHLANDS TRBPS: TEMPORARY BOOSTER PUMP STATION**

# BOOSTER PUMP STATION TESC AND DEMOLITION PLAN

| ENGINEER: CKB | SAVE DATE: Mar 17, 2026 | CLIENT: KIR | JOB NO: 026-0018 |
|---|---|---|---|
| REVIEWED: RJF | PLOT DATE: Mar 17, 2026 | FILENAME: TRBPS-D-C03.DWG | |

**REVISIONS**

| NO. | DATE | DESCRIPTION | BY | REVIEW |
|---|---|---|---|---|
| 1 | 3/18/2026 | ISSUED FOR BIDDING | CKB | RJF |

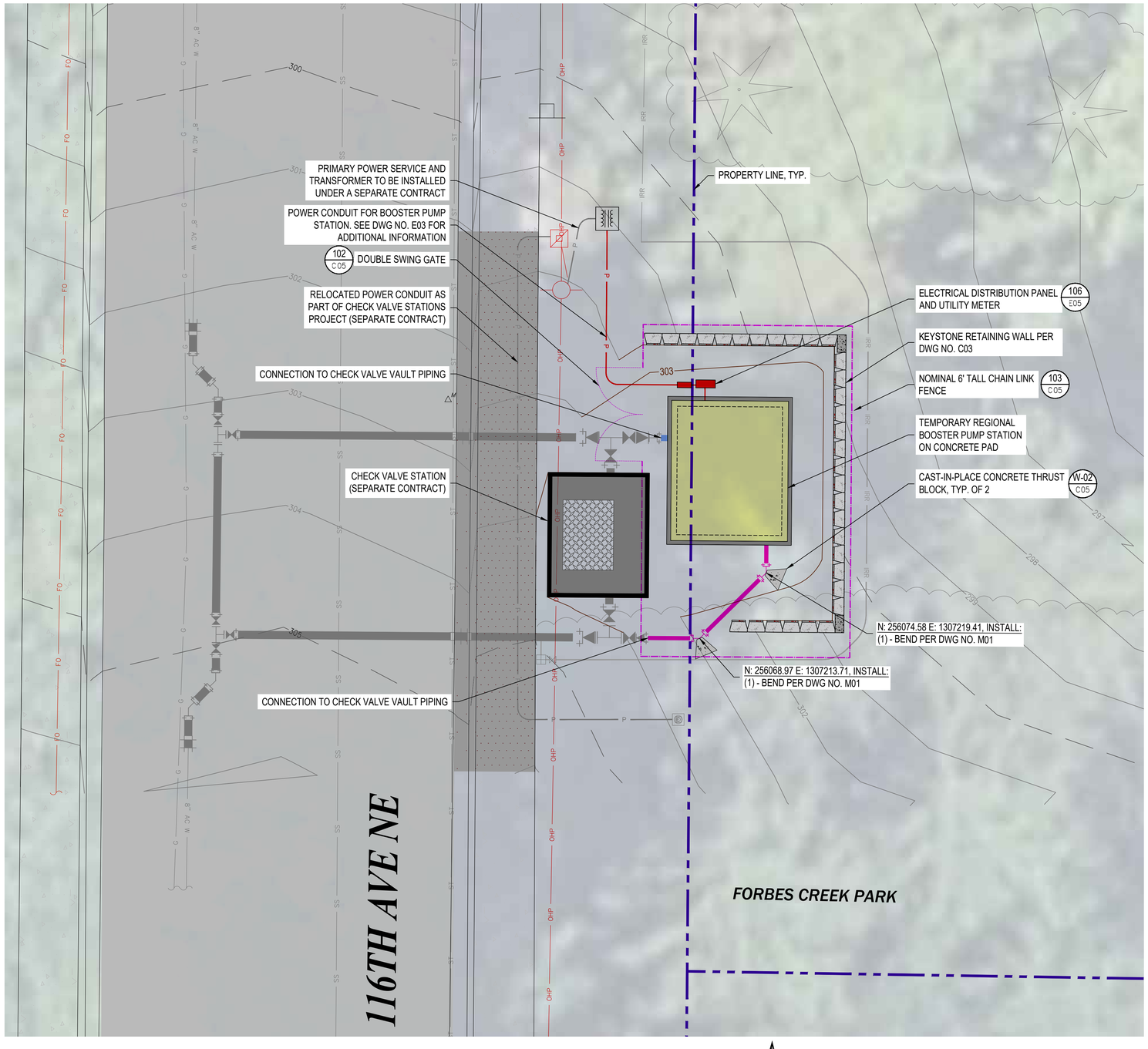
SCALE: SHOWN

0" 1" 2"

DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

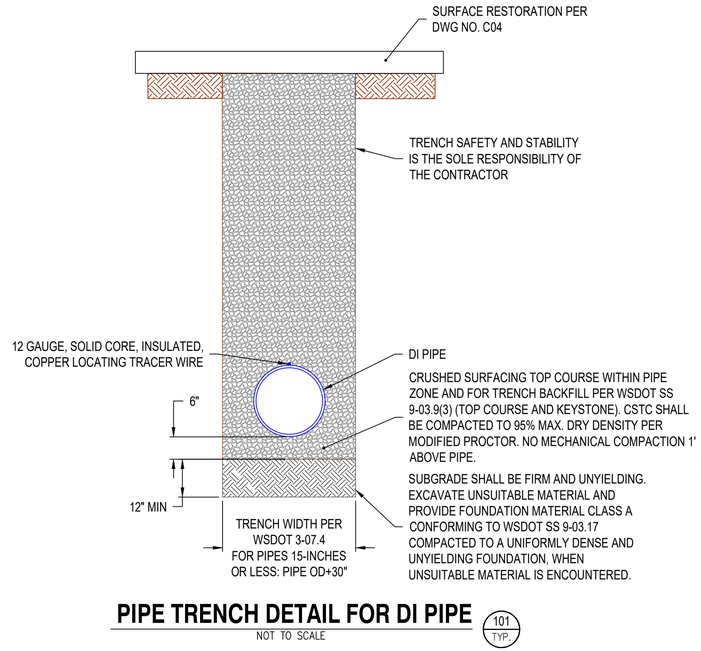
DWG NO.: C01

SHEET NO.: 3 16




## TEMPORARY REGIONAL BPS SITE PLAN

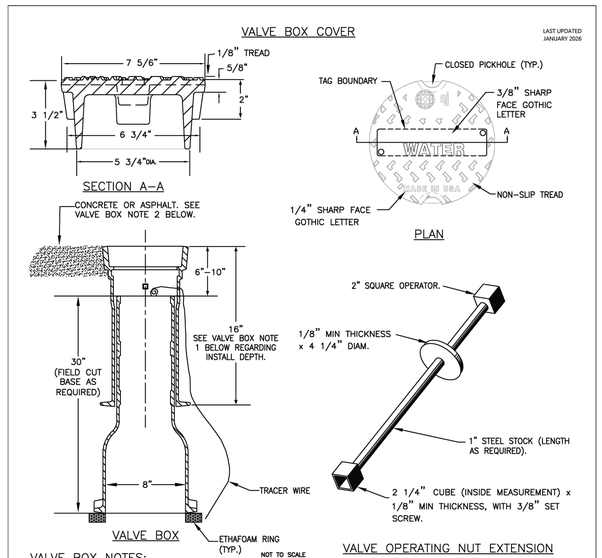
1" = 5'




## PIPE TRENCH DETAIL FOR DI PIPE

NOT TO SCALE

101 TYP.




### VALVE BOX NOTES:

1. CAST–IRON VALVE BOX AND COVER SHALL BE EAST JORDAN IRON WORKS:
   - VALVE BOX COVER 06800209
   - VALVE BOX TOP 85557016U
   - VALVE BOX BOTTOM 85556030U

   FOR SHALLOW OR DEEP INSTALLS, VALVE BOX TOP SHALL BE DETERMINED BY CITY OF KIRKLAND.
2. IF VALVE BOX IS IN AN UNPAVED AREA, PROVIDE 1' RADIUS x 4" MINIMUM DEPTH CONCRETE OR ASPHALT PAVING AROUND VALVE BOX. CONCRETE SHALL HAVE A BROOM/TROWEL FINISH.
3. INSTALL ETHAFOAM RING BETWEEN BASE OF VALVE BOX AND GATE VALVES OR ON CONCRETE BRICKS FOR BALL VALVES. ETHAFOAM RING TO BE 2" IN THICKNESS.
4. VALVE TOP TO HAVE A HOLE DRILLED OR SLOT CUT INTO SIDE FOR TRACER WIRE. PROVIDE 12" MIN. OF TRACER WIRE IN VALVE BOX.

### VALVE OPERATING NUT EXTENSION

1. EXTENSION TO USED WHEN APPROVED BY COK PW.

### VALVE OPERATING NUT EXTENSION NOTES:

1. VALVE OPERATING NUT EXTENSIONS ARE REQUIRED WHEN VALVE NUT IS MORE THAN 5' BELOW FINISHED GRADE.
2. LENGTH AS REQUIRED TO PUT OPERATING NUT TWO (2) FEET FROM FINISHED GRADE.
3. EXTENSIONS TO BE A MINIMUM OF TWO (2) FEET LONG.
4. ONE (1) EXTENSION PER VALVE.
5. NO ADJUSTABLE VALVE EXTENSIONS ALLOWED.
6. WHEN AN EXTENSION IS REQUIRED, USE A SOILS PIPE BETWEEN VALVE BOX TOP AND VALVE BOX BOTTOM. LENGTH TO FIT.

| PRE-APPROVED PLAN PLAN NO. CK-W.35 | CITY OF KIRKLAND WATER VALVE BOX | CITY OF KIRKLAND WASHINGTON |
|---|---|---|

RH2

RYAN J. FESSENDEN STATE OF WASHINGTON 49451 REGISTERED PROFESSIONAL ENGINEER

SIGNED: 3/18/2026

**CITY OF KIRKLAND**

**HIGHLANDS TRBPS: TEMPORARY BOOSTER PUMP STATION**

**BOOSTER PUMP STATION PROPOSED SITE PLAN**

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 1 | ISSUED FOR BIDDING | 3/18/2026 | CKB |
| | | | RJF |

REVISIONS

ENGINEER: CKB
REVIEWED: RJF
DRAWN: CKB DATE: Mar 16, 2026
PLOT DATE: Mar 17, 2026
CLIENT: KIR
FILENAME: TRBPS-D-C01.DWG
JOB NO: 026-0018

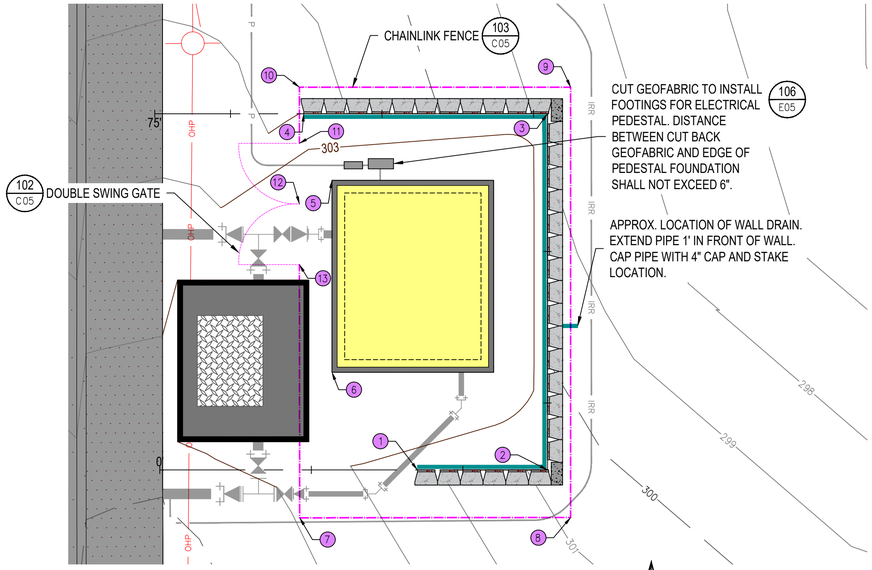
SCALE: SHOWN

0" 1" 2"

DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

DWG NO.: C02

SHEET NO.: 4 16




## TEMPORARY REGIONAL BPS GRADING PLAN

1" = 5'

| POINTS TABLE | | | | |
|---|---|---|---|---|
| NUMBER | DESC. | ELEV. | NORTHING | EASTING |
| 1 | BEGIN RETAINING WALL (TOP) | 302.70 | 256070.53 | 1307216.49 |
| 2 | TOP OF WALL | 302.70 | 256070.47 | 1307225.07 |
| 3 | TOP OF WALL | 302.70 | 256093.97 | 1307225.25 |
| 4 | END RETAINING WALL (TOP) | 302.70 | 256094.09 | 1307209.17 |
| 5 | CORNER OF CONCRETE PAD | 303.90 | 256089.69 | 1307211.00 |
| 6 | CORNER OF CONCRETE PAD | 303.90 | 256077.02 | 1307210.90 |
| 7 | CORNER OF FENCE (6' TALL POST) | 303.94 | 256067.43 | 1307208.69 |
| 8 | CORNER OF FENCE | 300.82 | 256067.32 | 1307226.57 |
| 9 | CORNER OF FENCE (8' TALL POST) | 298.49 | 256095.70 | 1307226.80 |
| 10 | CORNER OF FENCE (6' TALL POST) | 301.42 | 256095.84 | 1307208.90 |
| 11 | CORNER OF FENCE | 302.71 | 256092.15 | 1307208.87 |
| 12 | CENTER OF GATE | 303.69 | 256088.15 | 1307208.84 |
| 13 | CORNER OF FENCE | 303.87 | 256084.15 | 1307208.81 |

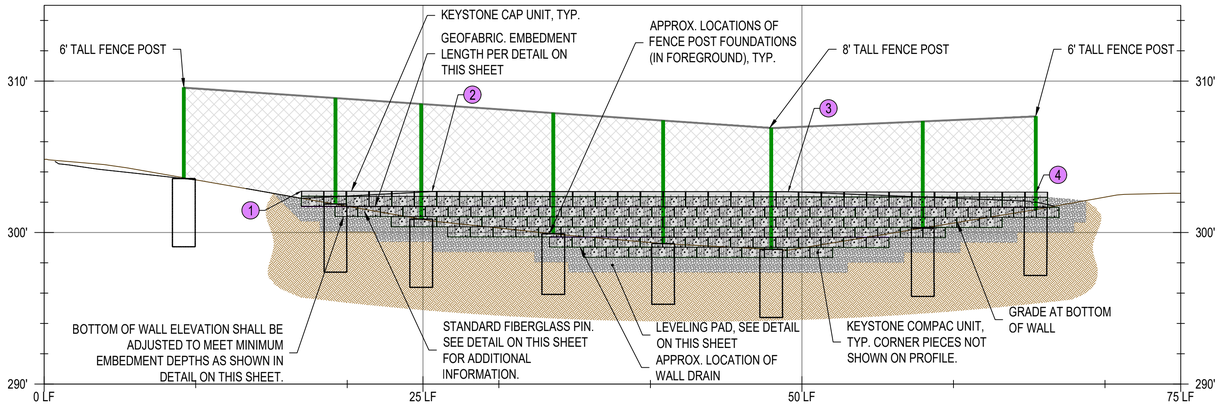
NOTES:
- FENCE AND GATE ELEVATIONS REPRESENT FINISHED GRADE AT BOTTOM OF FENCE.
- RETAINING WALL ELEVATION REPRESENTS ELEVATION OF TOP OF WALL TOP CAP.
- WALL CORNER POINTS SHOWN ON PROFILE FOR CLARITY.
- UNLESS OTHERWISE NOTED, FENCE POST HEIGHT SHALL BE AS REQUIRED TO PROVIDE CONSTANT SLOPE BETWEEN FENCE POSTS. ALL FENCE POSTS SHALL BE BETWEEN 6'-8' IN HEIGHT.

## GENERAL WALL NOTES

- BLOCK LAYOUTS SHOWN IN PLAN AND PROFILE VIEWS ARE CONCEPTUAL IN NATURE. FIELD ADJUST AS NECESSARY TO AVOID CONFLICTS AND MEET BLOCK EMBEDMENT REQUIREMENTS.
- CONTRACTOR SHALL COMPACT THE WALL SUBGRADE TO 95% MAX. DRY DENSITY PER MODIFIED PROCTOR. THE ENGINEER MUST CONFIRM THAT THE SUBGRADE IS ADEQUATELY COMPACTED PRIOR TO CONTRACTOR PLACING ANY FOUNDATION ROCK. IF THE ENGINEER DETERMINES THAT OVER EXCAVATION IS NECESSARY, THE CONTRACTOR SHALL EXCAVATE PER THE ENGINEER'S INSTRUCTION BELOW PROPOSED FOUNDATION ELEVATION AND PLACE CSBC TO REACH THE FOUNDATION ELEVATION. COMPACT CSBC IN MAX. 6" LIFTS TO 95% MAX. DRY DENSITY PER MODIFIED PROCTOR.
- MINIMUM WALL EMBEDMENT IS 6". REVISE BLOCK PLACEMENT AS NEEDED TO MEET MINIMUM EMBEDMENT FOR ENTIRE WALL.
- TEMPORARY EXCAVATED SLOPES SHALL BE 1:1. STEEPER SLOPES MAY BE POSSIBLE IF REVIEWED AND APPROVED BY THE ENGINEER DURING CONSTRUCTION. DECISION WILL BE BASED ON WEATHER CONDITIONS, SOIL CONDITIONS AND LENGTH OF TIME BETWEEN EXCAVATION AND PLACEMENT OF WALL MATERIALS. SLOPE STABILITY AND EXCAVATION SAFETY ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

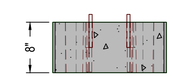
**MATERIALS:**
- BLOCK - KEYSTONE COMPAC III 12" DEPTH STRAIGHT SPLIT BLOCK WITH DUAL PIN HOLE CONFIGURATION OR EQUAL, SUBMIT COLOR OPTIONS FOR CITY SELECTION.
- FIBERGLASS PINS - 1/2"Ø x 5¼" LONG COMPATIBLE WITH BLOCK AND GEOGRID. PROVIDE COMPATIBILITY CERTIFICATION INFORMATION IN SUBMITTAL.
- GEOGRID - SYNTEEN SF35, MIRAGRID 3XT, STRATAGRID 200, OR 55/30-20 BY HUESKER INC.
- GRAVEL BORROW FOR GEOSYNTHETIC RETAINING WALL - EQUAL TO WSDOT SPECIFICATION 9-03.14(4)
- DRAIN PIPE - 4" SILT SOCK LINED PERFORATED SDR 35 PVC DRAIN PIPE, ROUTE PER NOTES ON PLAN AND DETAILS.
- CRUSHED SURFACING BASE COURSE (CSBC) - EQUAL TO WSDOT SS 9-03.9(3) (BASE COURSE)

**SPECIAL CONSTRUCTION:**
- GEOGRID SHALL BE PULLED TAUT AND ANCHORED PRIOR TO BACKFILL PLACEMENT OVER TOP.
- HEAVY CONSTRUCTION EQUIPMENT SHALL BE KEPT 3' FROM THE WALL FACE. COMPACTION SHALL BE COMPLETED WITH LIGHT EQUIPMENT (JUMPING JACK OR HOE-PLATE). DO NOT DAMAGE GEOGRID DURING PLACEMENT, FOLLOW MANUFACTURERS INSTRUCTIONS AND AT A MINIMUM, VEHICLES SHALL BE KEPT AT LEAST 6" FROM GEOGRID AS IT IS PLACED WITH NEXT LAYER OF FILL OVER TOP.
- A REPRESENTATIVE FROM THE OWNER OR CITY SHALL OBSERVE NATIVE SUBGRADE OF WALL BASE, AND SUBGRADE BELOW GEOGRID. DO NOT BEGIN CONSTRUCTION OF WALL UNTIL NATIVE SUBGRADE FOR WALL AND GEOGRID HAVE BEEN APPROVED. PERIODIC INSPECTION SHALL BE REVIEWED TO OBSERVE PROPER INSTALLATION OF CRUSHED SURFACING BASE COURSE, GEOGRID AND GRAVEL BORROW FOR GEOSYNTHETIC RETAINING WALL.

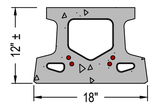



## RETAINING WALL PROFILE

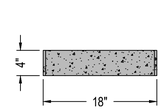
H: 1" = 5'; V: 1" = 5'



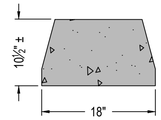

*UNIT ELEVATION*




*UNIT PLAN*




*CAP UNIT ELEVATION*

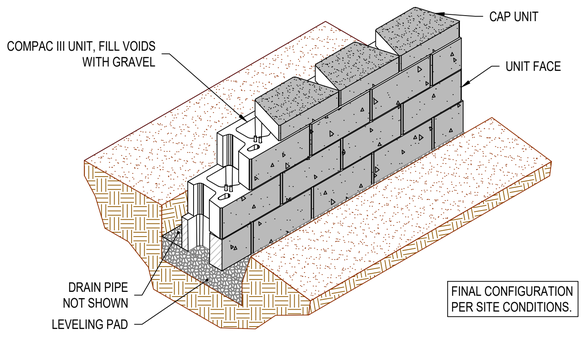



*CAP UNIT PLAN*

CAP UNIT SHALL BE OF THE SAME MANUFACTURER AND COLOR AS THE COMPAC III WALL UNIT AND BE HALF THE DEPTH OF THE COMPAC III BLOCK WITH SOLID FACE, TOP AND SIDES.

## COMPAC III AND CAP UNIT DETAILS

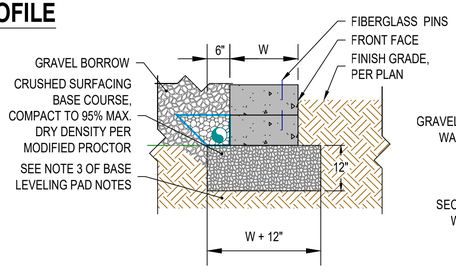
NOT TO SCALE




FINAL CONFIGURATION PER SITE CONDITIONS.

## COMPAC III UNIT/BASE PAD ISOMETRIC SECTION VIEW

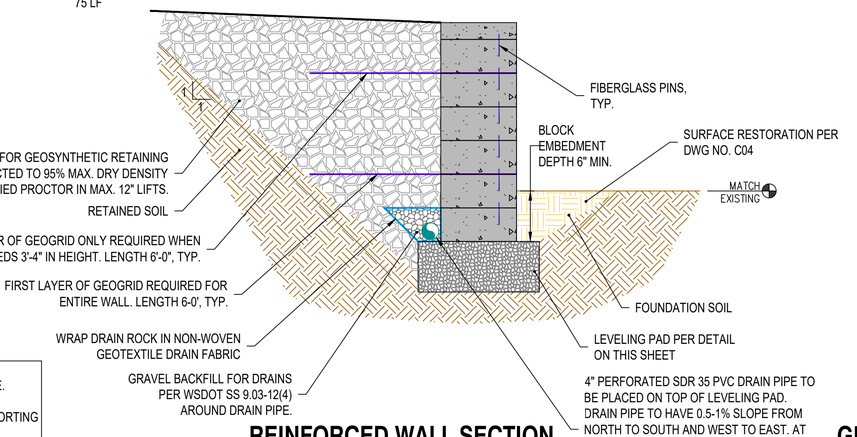
NOT TO SCALE




## LEVELING PAD DETAIL

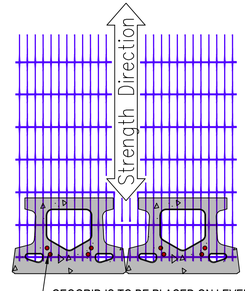
NOT TO SCALE

BASE LEVELING PAD NOTES:
1. THE LEVELING PAD IS TO BE CONSTRUCTED OF CRUSHED SURFACING BASE COURSE.
2. THE ENGINEER WILL VERIFY THE NATIVE SUBGRADE IS FIRM AND CAPABLE OF SUPPORTING THE WALL PRIOR TO BASE COURSE PLACEMENT.
3. IF NATIVE SUBGRADE IS CONSIDERED SOFT BY THE ENGINEER, PROVIDE 1' DEEP x 4' WIDE EXCAVATION, PLACE SPALLS COMPACT INTO NATIVE, PLACE GEOFABRIC EQUAL TO TENCATE MIRAFI 160 N AND LEVELING PAD OVER TOP.




## REINFORCED WALL SECTION

NOT TO SCALE




GEOGRID IS TO BE PLACED ON LEVEL BACKFILL AND EXTENDED OVER THE FIBERGLASS PINS. PLACE NEXT UNIT. PULL GRID TAUGHT AND BACKFILL. STAKE AS REQUIRED.

## GRID AND PIN CONNECTION

NOT TO SCALE

RH2

RYAN J. FESSENDEN, STATE OF WASHINGTON, 49451, REGISTERED PROFESSIONAL ENGINEER

SIGNED: 3/18/2026

CITY OF KIRKLAND
HIGHLANDS TRBPS: TEMPORARY BOOSTER PUMP STATION

# BOOSTER PUMP STATION GRADING PLAN

| REVISIONS | | | |
|---|---|---|---|
| NO. | DATE | DESCRIPTION | BY |
| 1 | 3/18/2026 | ISSUED FOR BIDDING | CKB |
| | | | RJF |

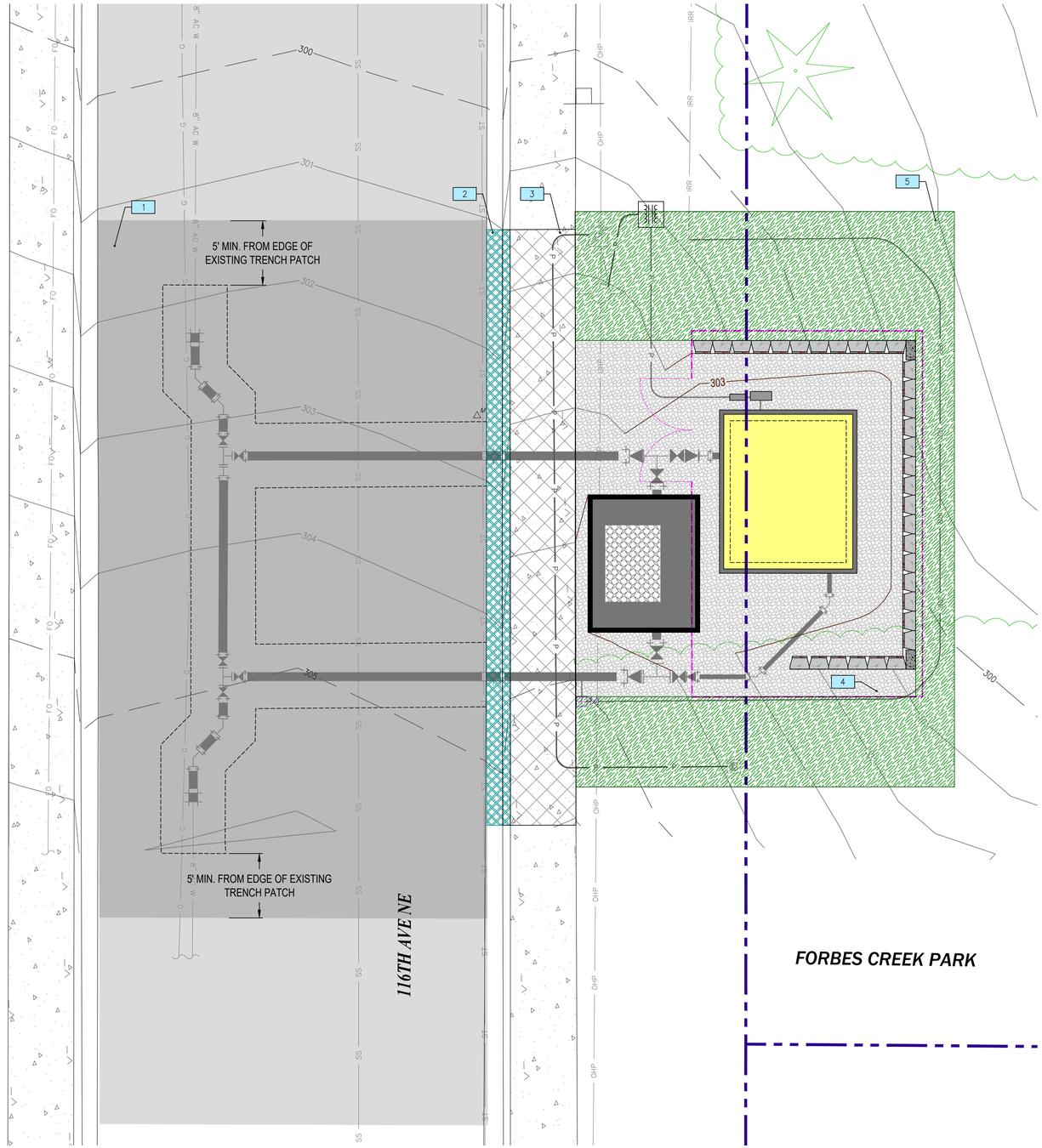
JOB NO: 026-0018
CLIENT: KIR
FILENAME: TRBPS-D-C01.DWG
SAVE DATE: Mar 16, 2026
PLOT DATE: Mar 17, 2026
ENGINEER: CKB
REVIEWED: RJF

SCALE: SHOWN

0" 1" 2"

DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

DWG NO.: C03
SHEET NO.: 5
16




## NORTH CHECK VALVE STATION RESTORATION PLAN

1" = 5'

## RESTORATION NOTES

ALL RESTORATION LIMITS SHOWN ARE APPROXIMATE. ANY CONCRETE RESTORATION REQUIRED SHALL EXTEND TO THE NEAREST JOINT OR EDGE.

- APPROX. EXTENTS OF EXISTING TRENCH PATCH
- 2-INCH ASPHALT GRIND AND OVERLAY
- CONCRETE CURB AND GUTTER RESTORATION
- UNIMPROVED AREAS RESTORATION
- CONCRETE SIDEWALK RESTORATION
- GRAVEL (CSTC)

1. FULL ROAD OVERLAY AS SHOWN ON CITY STANDARD DETAIL R.13A ON DWG NO. C05.
2. CURB AND GUTTER RESTORATION PER CITY STANDARD DETAIL R-17 ON DWG NO. C05. MINIMUM RESTORATION SHALL BE TO THE NEAREST JOINT.
3. SIDEWALK RESTORATION PER CITY STANDARD DETAIL R-23 ON DWG NO. C05. MINIMUM RESTORATION SHALL BE TO THE NEAREST JOINT.
4. GRAVEL RESTORATION WITHIN RETAINING WALL/FENCE BOUNDARY AND BETWEEN BACK OF SIDEWALK AND FENCE/CHECK VALVE VAULT. REINSTATE AND COMPACT CSTC DISTURBED DURING CONSTRUCTION WITHIN SHOWN EXTENTS TO A MIN. DEPTH OF 4" OF CSTC. COMPACT CSTC TO 95% MAX. DRY DENSITY PER MODIFIED PROCTOR.
5. REMOVE GRAVEL AND PLACE MIN. 6" OF TOP SOIL AND SOD WITHIN DISTURBED AREAS OUTSIDE OF RETAINING WALL/FENCE BOUNDARY, AS SHOWN.

RH2

RYAN J. FESSENDEN — STATE OF WASHINGTON — 49451 — REGISTERED PROFESSIONAL ENGINEER

SIGNED: 3/18/2026

CITY OF KIRKLAND

HIGHLANDS TRBPS: TEMPORARY BOOSTER PUMP STATION

# BOOSTER PUMP STATION RESTORATION PLAN

ENGINEER: CKB | REVIEWED: RJF | SAVE DATE: Mar 16, 2026 | PLOT DATE: Mar 17, 2026 | CLIENT: KIR | FILENAME: TRBPS-D-C05.DWG | JOB NO: 026-0018

REVISIONS

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 2 | ISSUED FOR BIDDING | 3/18/2026 | CKB |
| | | | RJF |
| | | | REVIEW |

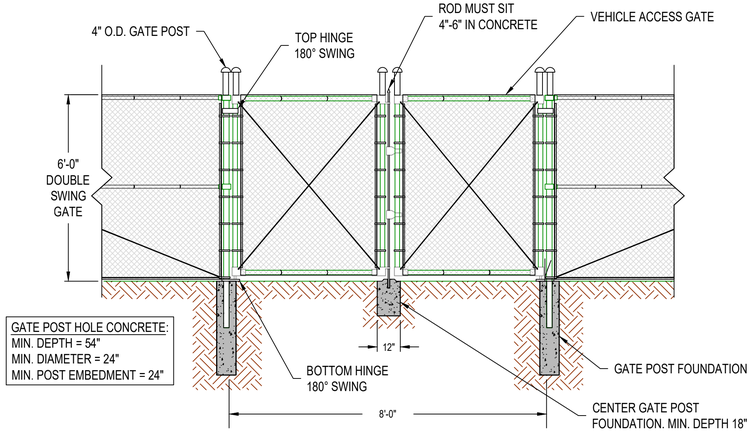
SCALE: SHOWN

0" 1" 2"

DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

DWG NO.: C04 | SHEET NO.: 6 | 16

ENSURE THE INSTALLED GATE ELEVATION PERMITS SWING OPENING.

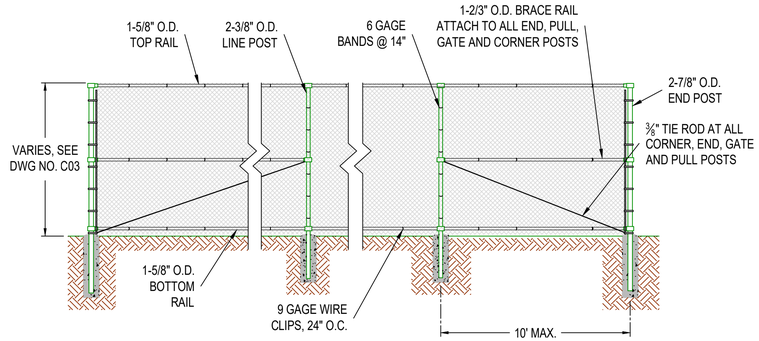



GATE POST HOLE CONCRETE:
MIN. DEPTH = 54"
MIN. DIAMETER = 24"
MIN. POST EMBEDMENT = 24"

## CHAIN-LINK DOUBLE SWING GATE DETAIL

NOT TO SCALE

102 C.02



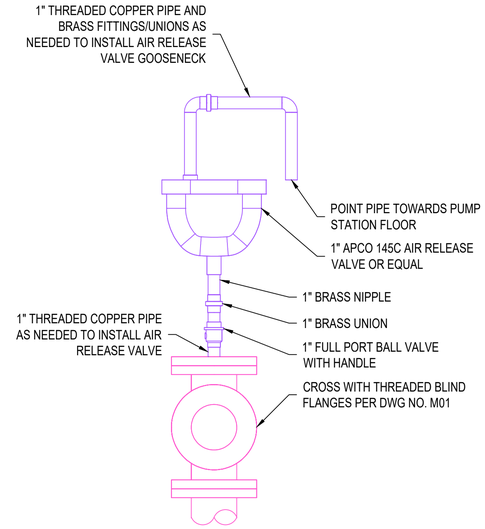

| POST HOLE CONCRETE: | |
|---|---|
| END POSTS | LINE POSTS |
| MINIMUM DEPTH=54" | 48" |
| MINIMUM DIAMETER=18" | 18" |
| MINIMUM POST EMBEDMENT = 24" | 24" |

NOTES:
1. MINIMUM DEPTHS BASED ON IBC GRAVEL OR SANDY GRAVE SOIL TYPES PER TABLE 1804.2
2. MINIMUM POST LENGTH: 10'-0"
3. FENCING SHALL BE BLACK VINYL COATED. MIN. 3 MIL THICKNESS

## CHAIN LINK FENCE

NOT TO SCALE

103 C.09




## AIR RELEASE VALVE DETAIL

1 ½" = 1'-0"

105 M01

LAST REVISED: 1/1/18

### THRUST BLOCK TABLE

**Minimum Bearing Area Against Undisturbed Soil ($Ft^2$)**
*(block sizes based on 200 psi test pressure)*

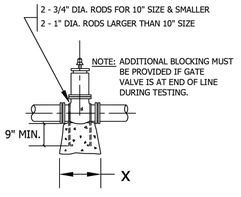
| Pipe Size | A | B | C | D | E | x (in) | d (ft) |
|---|---|---|---|---|---|---|---|
| 4" | 3 | 2 | 2 | 1 | 1 | None | 1 |
| 6" | 5 | 4 | 4 | 2 | 2 | None | 1.25 |
| 8" | 9 | 6 | 5 | 3 | 2 | 4 | 1.5 |
| 10" | 13 | 10 | 7 | 4 | 3 | 5 | 2 |
| 12" | 19 | 13 | 11 | 6 | 4 | 6 | 2.25 |
| 14" | 26 | 19 | 14 | 7 | 4 | 9 | 2.75 |
| 16" | 27 | 25 | 19 | 10 | 6 | 12 | 2.75 |
| 18" | 42 | 30 | 23 | 12 | 6 | 15 | 3.25 |
| 20" | 52 | 37 | 28 | 15 | 9 | 19 | 3.75 |
| 24" | 74 | 53 | 41 | 21 | 11 | 27 | 4.5 |

***Notes:***
*For different test pressure multiply bearing area by (actual test pressure ÷ 200)*








GATE VALVE

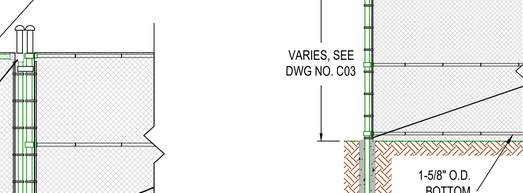
NOTES:

1. SQUARE FEET OF CONCRETE THRUSTS - BLOCK AREA BASED ON SAFE BEARING LOAD OF 2000 POUNDS PER SQUARE FOOT.
2. AREAS MUST BE ADJUSTED FOR OTHER SIZE PIPE, PRESSURES & SOIL CONDITIONS.
3. CONCRETE BLOCKING SHALL BE CAST IN PLACE & HAVE MINIMUM OF 1/4 SQUARE FOOT BEARING AGAINST THE FITTING.
4. BLOCK SHALL BEAR AGAINST FITTINGS ONLY & SHALL BE CLEAR OF JOINTS TO PERMIT TAKING UP OR DISMANTLING JOINT.
5. CONTRACTOR SHALL INSTALL BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE AS WELL AS TO CONTINUOUSLY WITHSTAND OPERATING PRESSURE UNDER ALL CONDITIONS OF SERVICE.
6. IN CLAY OR FINE SILT, MULTIPLY BLOCK BEARING AREA BY 2.
7. IN MUCK OR PEAT, ALL THRUSTS SHALL BE RESTRAINED BY PILES OR TIE RODS TO SOLID FOUNDATIONS OR BY REMOVAL OF MUCK OR PEAT AND REPLACEMENT WITH BALLAST OF SUFFICIENT STABILITY TO RESIST THRUST.

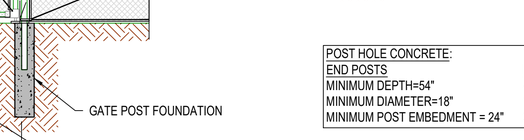
CITY OF KIRKLAND
PLAN NO. CK-W.02
CONCRETE THRUST BLOCKING

LAST REVISED: 01/2020


PLAN VIEW
NTS




PLAN VIEW
NTS




NTS

NOTES:

1. THIS STANDARD APPLIES TO ALL CUTS AND ARTERIAL STREETS AND ALL PAVEMENT LESS THAN 5 YEARS OLD.
2. OVERLAY AREA MAY BE MODIFIED BY CITY ON OLDER PAVEMENT DEPENDING ON CONDITIONS OR SCHEDULED CONSTRUCTION/MAINTENANCE.
3. ADJUST ALL UTILITY CASTING TO FINISH GRADE AND RESTORE CHANNELIZATION AND LOOP DETECTORS.
4. POTHOLES TO BE RESTORED WITH A 1' T-CUT. IF AFTER THE 1' T-CUT THE PATCH IS MORE THAN 4'x4', A GRIND AND OVERLAY IS REQUIRED UNLESS OTHERWISE APPROVED BY PUBLIC WORKS. IF THE PATCH IS WITHIN 2 LANES OF TRAVEL, THE GRIND AND OVERLAY WILL BE REQUIRED ON BOTH LANES. 50' MIN. LENGTH.
5. REFER TO COK STD. PLAN NO. CK-R.13C FOR REQUIREMENTS FOR GEOTECH BORING ASPHALT PATCHES.

CITY OF KIRKLAND
PLAN NO. CK- R.13A
ASPHALT OVERLAY FOR ROADWAY TRENCH REPAIR

LAST REVISED: 1/1/18








NOTES:

1. SIDEWALK AND CURB & GUTTER CANNOT BE POURED MONOLITHICALLY. EXPANSION JOINT WILL BE REQUIRED WHEN CONCRETE SIDEWALK IS SURROUNDED BY OTHER HARD SURFACES (E.G., DRIVEWAY); OR AS DIRECTED BY PW INSPECTOR.
2. CONCRETE SHALL BE CEMENT CONCRETE CLASS 4000 PSI MINIMUM, WITH AIR ENTRAINMENT. NO COLOR OR TINT SHALL BE ADDED.
3. FORMS SHALL BE SET TRUE TO LINE AND GRADE AND SHALL BE STEEL UNLESS OTHERWISE APPROVED BY INSPECTOR.
4. SIDEWALK SHALL NOT BE POURED IN THE RAIN. SEE POLICY R-8, PLACING CONCRETE OR ASPHALT IN ADVERSE WEATHER CONDITIONS.

CITY OF KIRKLAND
PLAN NO. CK- R.23
SIDEWALK SECTION

LAST REVISED:01/2023




TYPICAL SECTION FOR CURB & GUTTER, TYPE A




JOINT DETAIL

NOTES:

1. FORMS SHALL BE STEEL AND SET TRUE TO LINE AND GRADE (INSPECTION IS REQUIRED PRIOR TO PLACEMENT OF CONCRETE) UNLESS SPECIFIED DIFFERENTLY BY CITY PROJECT ENGINEER.
2. CONCRETE SHALL BE CEMENT CONCRETE CLASS 4000.
3. BASE COURSE SHALL BE 4" OF 5/8" MINUS CRUSHED ROCK.
4. SURVEY REQUIRED FOR CURB ALIGNMENT.

CITY OF KIRKLAND
PLAN NO. CK– R.17
CONCRETE CURB AND GUTTER, TYPE "A"

RH2

RYAN J. FESSENDEN — STATE OF WASHINGTON — 49451 — REGISTERED PROFESSIONAL ENGINEER

SIGNED: 3/18/2026

CITY OF KIRKLAND
HIGHLANDS TRBPS: TEMPORARY
BOOSTER PUMP STATION

STANDARD DETAILS

| ENGINEER: CKB | SAVE DATE: Mar 17, 2026 | CLIENT: KIR | JOB NO: 026-0018 |
|---|---|---|---|
| REVIEWED: RJF | PLOT DATE: Mar 17, 2026 | FILENAME: TRBPS-D-M01.DWG | |

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| | REVISIONS | | |
| A | ISSUED FOR BIDDING | 3/18/2026 | CKB |
| | | | RJF |

REVIEW

SCALE: SHOWN

0" 1" 2"

DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

DWG NO.: C05

SHEET NO.: 7 / 16

# GENERAL

SCOPE
THE NOTES ON THIS SHEET AND THE STANDARD STRUCTURAL DETAILS ARE GENERAL AND APPLY TO THE ENTIRE PROJECT WHETHER SPECIFICALLY CALLED OUT OR NOT, EXCEPT WHERE THERE ARE SPECIFIC INDICATIONS TO THE CONTRARY ON STRUCTURAL SHEETS. IF THERE ARE QUESTIONS, THEY SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER AND ANSWERED IN WRITING PRIOR TO CONSTRUCTION.

APPLICABLE SPECIFICATIONS AND CODES
ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, ASCE 7-16 AND THE 2021 INTERNATIONAL BUILDING CODE.

GENERAL
THE CONTRACT STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE. METHODS, PROCEDURES, AND SEQUENCE OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.

LINES SHOWN ON DRAWINGS MAY BE ASSOCIATED WITH CAD MODELING AND MAY NOT REPRESENT REQUIRED OR ALLOWED JOINTS. SEE DETAILS FOR CLARIFICATION ON REQUIRED AND ALLOWED JOINTS.

APPLICABLE SHOP DRAWINGS AND STRUCTURAL CALCULATIONS SHALL BE STAMPED BY A PROFESSIONAL ENGINEER IN WASHINGTON STATE.

THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS OF EXISTING CONSTRUCTION AS REQUIRED TO COORDINATE NEW CONSTRUCTION. SUBMIT REQUIRED CHANGES FOR APPROVAL.

CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LIVE LOAD FOR THE STRUCTURE. PROVIDE SHORING AND/OR BRACING WHERE LOADS EXCEED DESIGN CAPACITY AND WHERE STRUCTURES HAVE NOT ATTAINED DESIGN STRENGTH.

SAFETY
SAFETY AND STRUCTURAL STABILITY DURING CONSTRUCTION ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. STRUCTURES HAVE BEEN DESIGNED TO RESIST THE DESIGN LOADS ONLY AS COMPLETED STRUCTURE.

OPENINGS
OPENINGS FOR PIPES, DUCTS, CONDUITS, ETC. ARE NOT ALL SHOWN ON THE STRUCTURAL DRAWINGS. COORDINATE AND PROVIDE OPENINGS AS REQUIRED TO ACCOMMODATE ALL WORK SHOWN OR SPECIFIED IN TECH CONTRACT DOCUMENTS AND OTHERWISE REQUIRED FOR FURNISHING OF A FUNCTIONALLY COMPLETE PROJECT. REINFORCE AROUND OPENINGS PER STANDARD STRUCTURAL DETAILS UNLESS OTHERWISE SHOWN.

STANDARD DETAILS
THE STANDARD DETAILS DEPICT TYPICAL DETAILING TO BE USED ON THIS PROJECT. IF CONDITIONS ARE NOT EXPLICITLY SHOWN ON THE DRAWING THEY SHALL BE MADE SIMILAR TO THE STANDARD DETAILS. OBTAIN APPROVAL OF ENGINEER IN WRITING FOR SIMILAR CONDITIONS PRIOR TO CONSTRUCTION.

# CONCRETE ANCHORS

ANCHOR BOLTS NOT SPECIFIED BY ENGINEER SHALL BE DESIGNED AND CERTIFIED BY A REGISTERED PROFESSIONAL ENGINEER RETAINED BY THE CONTRACTOR, IN ACCORDANCE WITH APPLICABLE PROJECT AND CODE REQUIREMENTS. SUBMIT AS A SHOP DRAWING FOR REVIEW AND APPROVAL BY THE ENGINEER. COORDINATE LOCATION, SIZE AND EMBEDMENT PRIOR TO CASTING CONCRETE.

ALL CAST IN PLACE AND POST-INSTALLED ANCHOR INDICATED IN THE STRUCTURAL DOCUMENTS SHALL COMPLY WITH CHAPTER 17 OF ACI 318 AND CHAPTER 19 OF ALL THE IBC. ALL EXPANSION AND ADHESIVE ANCHORS SHALL HAVE THE ICC REPORT SHOWING EQUIVALENT LOAD CAPACITY. SUBMIT AND INSTALL PER THE ICC EVALUATION REPORT

CONCRETE ANCHORS SHALL BE EITHER HILTI HIT-RE 500-V3 INJECTABLE MORTAR OR SIMPSON STRONG-TIE SET-XP ANCHORING ADHESIVE ADHESIVE ANCHORS AS SPECIFIED. WHERE SIZE IS CALLED OUT ON THE DRAWINGS, PROVIDE MINIMUM EMBEDMENT DEPTHS AS SHOWN ON THE FOLLOWING TABLES. PROVIDE MINIMUM EDGE DISTANCES AND SPACING AS SHOWN ON THE FOLLOWING TABLES UNLESS SPECIFICALLY DETAILED OTHERWISE. SPECIAL INSPECTION REQUIRED.

INSTALL ANCHORS IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

NOTIFY OWNER 48 HOURS IN ADVANCE OF INSTALLATION OF ALL ANCHORS.

WHERE SIZE IS NOT CALLED OUT, ANCHOR SHALL BE SELECTED BASED ON DESIGN LOADS. IF THE MINIMUM EDGE DISTANCE AND/OR MINIMUM SPACING CAN NOT BE ACHIEVED, REFER TO PRODUCT INFORMATION FOR REDUCTION IN ALLOWABLE LOADS.

**CONCRETE ANCHORS**
**HILTI HIT-RE 500-V3 AND SIMPSON STRONG-TIE SET-XP**

| DIAMETER OF ROD [INCHES] OR REBAR SIZE NO. | MIN EDGE DISTANCE [INCHES] | MIN EMBEDMENT [INCHES] | MIN ANCHOR SPACING [INCHES] | ALLOWABLE LOAD BASED ON BOND STRENGTH [LBS] | |
|---|---|---|---|---|---|
| | | | | TENSION | SHEAR |
| 1/2 | 2-1/2 | 2-3/4 | 2-1/2 | 1,027 | 2,210 |
| 5/8 | 3-1/8 | 3-1/8 | 3-1/8 | 1,312 | 2,827 |
| 3/4 | 3-3/4 | 3-1/2 | 3-3/4 | 1,556 | 3,351 |
| 7/8 | 4-3/8 | 3-1/2 | 4-3/8 | 1,556 | 3,351 |
| #4 | 2-1/2 | 4-1/2 | 2-1/2 | 1,520 | 3,616 |
| #5 | 3-1/8 | 5-5/8 | 3-1/8 | 1,775 | 5,494 |
| #6 | 3-3/4 | 6-3/4 | 3-3/4 | 2,225 | 7,570 |
| #7 | 4-3/8 | 7-7/8 | 4-3/8 | 2,440 | 9,428 |
| #8 | 5 | 9 | 5 | 4,520 | 11,507 |

# SPECIAL INSPECTIONS

SPECIAL INSPECTIONS ARE REQUIRED IN ACCORDANCE WITH CHAPTER 1 AND CHAPTER 17 OF THE IBC. THE CONTRACTOR SHALL PROVIDE FOR FULL ACCESS TO THE WORK BY THE SPECIAL INSPECTOR AND SHALL PROVIDE FOR THESE INSPECTIONS IN THEIR CONSTRUCTION SCHEDULE IN ACCORDANCE WITH THE SPECIFICATIONS.

# REINFORCED CONCRETE

DESIGN STANDARDS AND REFERENCES:
GENERAL CONCRETE STRUCTURES: ACI 318-19
CONCRETE LIQUID HOLDING STRUCTURES: ACI 350-06 AND ACI 350.3-06

CONCRETE MIX DESIGNS:
SPEC 3.31 STRUCTURAL CONCRETE: F'C = 4500 PSI
REINFORCING STEEL: FY = 60 KSI UNLESS NOTED OTHERWISE

CONCRETE COVER PROTECTION UNLESS OTHERWISE NOTED:
FOOTINGS AND OTHER UNIFORMED SURFACES CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH. . . . . 3"

FORMED SURFACES EXPOSED TO EARTH (WALLS BELOW GRADE), WATER OR WEATHER (#6 BARS OR LARGER) . . . . . 2"

COLUMN TIES OR SPIRALS AND BEAM STIRRUPS . . . . . 2"

SLABS AND INTERIOR FACES . . . . . 2"

SEE DRAWINGS FOR EXCEPTIONS

REINFORCING STEEL
REINFORCING STEEL SHALL BE DETAILED (INCLUDING HOOKS AND BENDS) IN ACCORDANCE WITH ACI 315-18 AND 318-19. LAP ALL REINFORCEMENTS IN ACCORDANCE WITH THE "REINFORCING SPLICE AND DEVELOPMENT LENGTH SCHEDULE" - SEE THIS SHEET. PROVIDE CORNER BARS AT ALL WALL INTERSECTIONS PER STRUCTURAL DETAILS. LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 8" AT SIDES AND ENDS.

ABSOLUTELY NO WELDING OF REINFORCING BARS OR TORCHING TO BEND REINFORCING BARS SHALL BE ALLOWED WITHOUT SPECIFIC APPROVAL FROM THE STRUCTURAL ENGINEER.

NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER.

FORMWORK
FORMWORK SHALL BE IN ACCORDANCE WITH ACI - 347 "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK". FORMS SHALL BE DESIGNED BY THE CONTRACTOR. BRACING SHALL BE PROVIDED AS REQUIRED OR UNTIL THE CONCRETE HAS REACHED ITS SPECIFIED 28 - DAY STRENGTH. ALL SHORING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. FORMWORK, SUPPORTS, AND SHORING SHALL PROVIDE FINISHED CONCRETE SURFACES AT ALL FACES: LEVEL, PLUMB, AND TRUE TO DIMENSIONS AND ELEVATIONS SHOWN IN THE DRAWINGS. FORMS SHALL BE CLEAN AND FREE OF DEBRIS AND ALL WIRE TIES BENT AWAY FROM FINISHED SURFACES PRIOR TO CONCRETE INSTALLATION.

EMBEDDED ITEMS AND PENETRATIONS
REFER TO OTHER DISCIPLINE DRAWINGS PRIOR TO CONSTRUCTION FOR EMBEDDED ITEMS AND PENETRATIONS NOT SHOWN ON STRUCTURAL DRAWINGS. AS REQUIRED TO ACCOMMODATE ALL WORK SHOWN OR SPECIFIED IN THE CONTRACT DOCUMENTS AND OTHERWISE REQUIRED FOR THE FURNISHING OF A FUNCTIONALLY COMPLETE PROJECT REINFORCE AROUND OPENINGS PER STANDARD STRUCTURAL DETAILS UNLESS OTHERWISE SHOWN.

JOINTS
CONTINUOUS WATERSTOP SHALL BE INSTALLED IN JOINTS SUBJECT TO STATIC WATER PRESSURE.

CONTRACTOR SHALL SUBMIT CONCRETE PLACEMENT PLAN IDENTIFYING JOINT TYPES, JOINT LOCATIONS AND CONCRETE PLACEMENT SEQUENCE.

CHAMFERS
PROVIDE 3/4" CHAMFERS AT ALL EXPOSED EDGES (AND 1/2" CHAMFERS AT JOINTS AS SHOWN) NOT ALL CHAMFERS MAY BE SHOWN ON DRAWINGS.

REINFORCEMENT SPLICE AND DEVELOPMENT SCHEDULE

| BAR | Ld, MINIMUM STRAIGHT DEVELOPMENT LENGTHS | | | | MINIMUM LAP SPLICE LENGTHS | Ldh, MINIMUM HOOKED DEVELOPMENT LENGTHS |
|---|---|---|---|---|---|---|
| | BOT MIN | BOT OTHER | TOP MIN | TOP OTHER | CLASS B | |
| #3 | 14" | 21" | 18" | 27" | 1.3xLd | 6" |
| #4 | 18" | 27" | 24" | 35" | 1.3xLd | 9" |
| #5 | 24" | 34" | 30" | 44" | 1.3xLd | 12" |
| #6 | 27" | 41" | 35" | 53" | 1.3xLd | 16" |
| #7 | 40" | 59" | 51" | 77" | 1.3xLd | 20" |
| #8 | 45" | 68" | 59" | 88" | 1.3xLd | 24" |
| #9 | 51" | 76" | 66" | 99" | 1.3xLd | 29" |
| #10 | 57" | 86" | 74" | 111" | 1.3xLd | 34" |
| #11 | 63" | 95" | 82" | 123" | 1.3xLd | 40" |

REFERENCE: ACI 318-19 CHAPTER 25
1.) REINFORCEMENT FY = 60 KSI, CONCRETE F'C = 4500 PSI
2.) REINFORCEMENT UNCOATED, NORMAL WEIGHT CONCRETE
3.) "MIN" IF: CLEAR SPACING OF BARS OR WIRES BEING DEVELOPED OR LAP SPLICED NOT LESS THAN BAR DIA., CLEAR COVER AT LEAST BAR DIA., AND STIRRUPS OR TIES THROUGHOUT Ld NOT LESS THAN CODE MIN
4.) "OTHER" IF: DOES NOT MEET REQUIREMENTS FOR MIN DEVELOPMENT LENGTH
5.) "BOT" IF: LESS THAN 12" FRESH CONCRETE PLACED BELOW HORZ. REINFORCEMENT
6.) "TOP" IF: MORE THAN 12" FRESH CONCRETE PLACED BELOW HORZ. REINFORCEMENT
7.) CONTACT ENGINEER FOR ADJUSTED PARAMETERS

RH2

RYAN J. FESSENDEN
STATE OF WASHINGTON
49451
REGISTERED PROFESSIONAL ENGINEER

SIGNED: 3/18/2026

CITY OF KIRKLAND
HIGHLANDS TRBPS: TEMPORARY BOOSTER PUMP STATION

STRUCTURAL NOTES

CITY OF KIRKLAND WASHINGTON

JOB NO.: 026-0018
CLIENT: KIR
FILENAME: TRBPS-D-S01.DWG
SAVE DATE: Mar 16, 2026
PLOT DATE: Mar 17, 2026
ENGINEER: CKB
REVIEWER: RJF

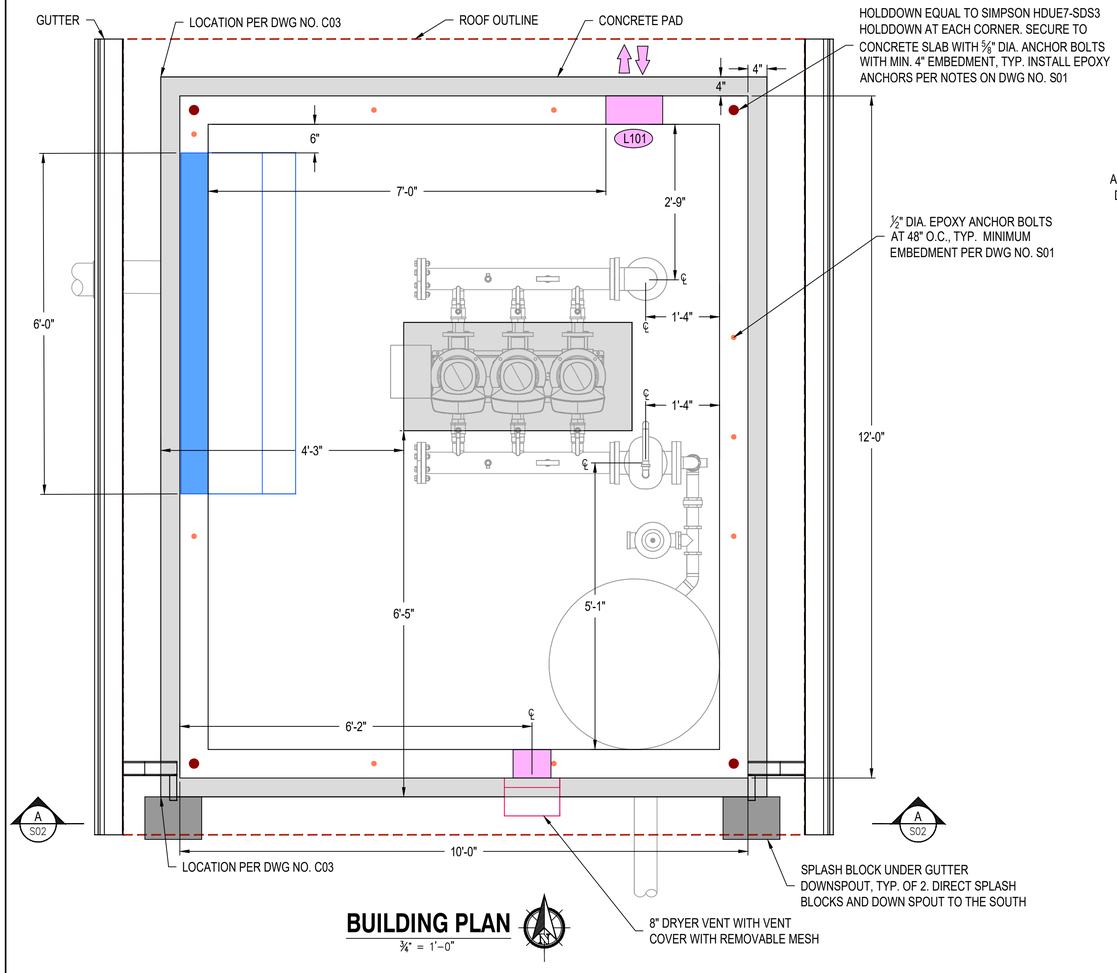
REVISIONS

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 1 | ISSUED FOR BIDDING | 3/18/2026 | CKB |
| | | | RJF |

REVIEW

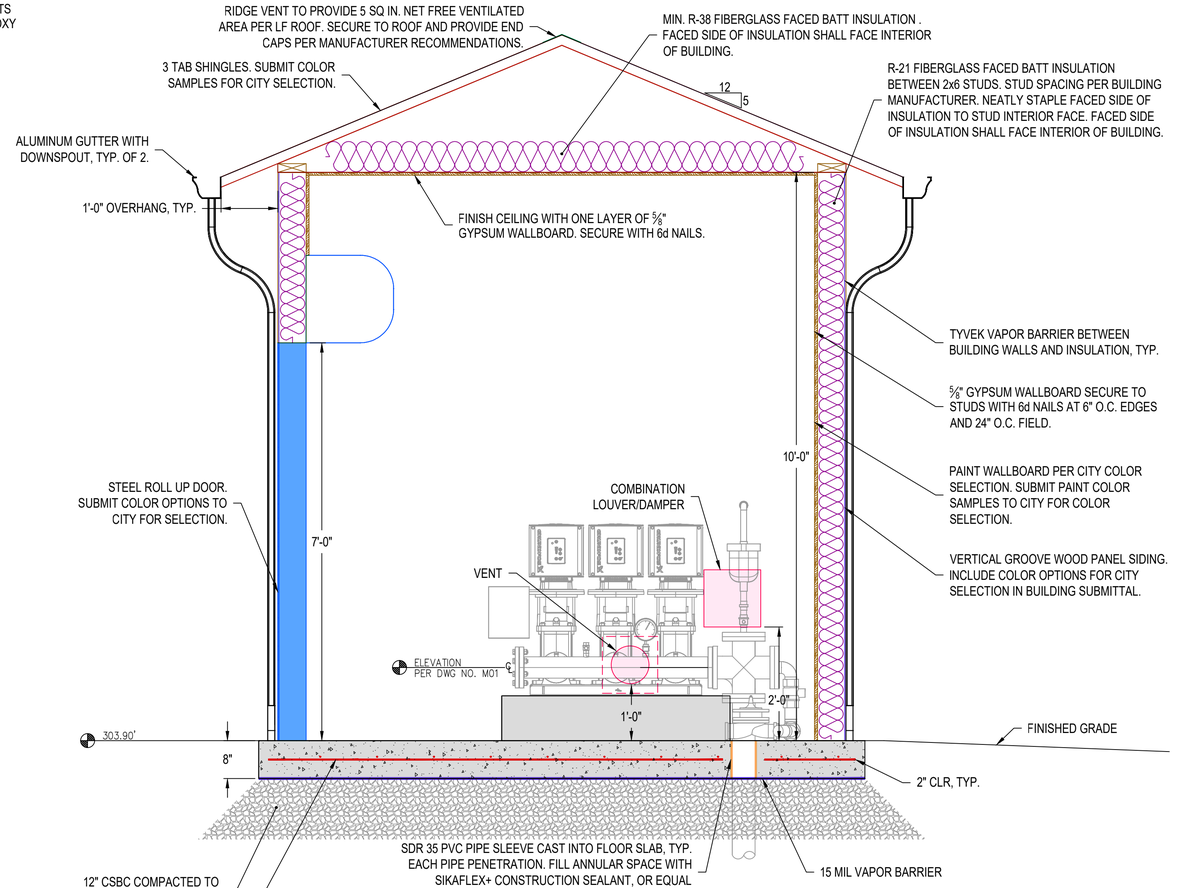
SCALE: SHOWN
0" 1" 2"
DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

DWG NO.: S01
SHEET NO.: 8
16




## BUILDING PLAN

¾" = 1'-0"




## BUILDING SECTION

A S02 — ¾" = 1'-0"

NOTE: NOT ALL PENETRATIONS ARE SHOWN ON STRUCTURAL PLANS.

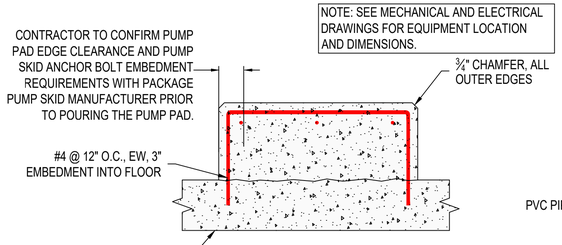
## COMBINATION LOUVER/DAMPER SCHEDULE

| NO. | ROOM | FLOW | TYPE | MANUFACTURER | MODEL | DIMENSIONS | ACCESSORIES | NOTES |
|---|---|---|---|---|---|---|---|---|
| L101 | PUMP ROOM | INTAKE/EXHAUST | WALL | POTTORFF | EXD-437 | 12"X12" | MOUNTING SLEEVE, EXTERIOR FINE SCREEN, FILTER RACK | MILL FINISH |

LOUVER NOTES:
1. INSTALL COMBINATION LOUVER/DAMPER INTO BUILDING WALL PER MANUFACTURER REQUIREMENTS.
2. APPLY SEAL AROUND LOUVER/DAMPER WALL MOUNT PER MANUFACTURER RECOMMENDATIONS TO CLOSE ALL GAPS BETWEEN THE WALLS AND WALL MOUNT.
3. MOUNT EXTERIOR FINE SCREEN FLUSH ON OUTSIDE OF LOUVER/DAMPER.
4. MOUNT FILTER RACK ON INSIDE OF LOUVER/DAMPER.
5. INSTALL LOUVER/DAMPER BEFORE INSULATION AND GYPSUM BOARD. INSTALL INSULATION AND GYPSUM BOARD AROUND LOUVER ENSURING ENTIRE LOUVER AREA REMAINS CLEAR.

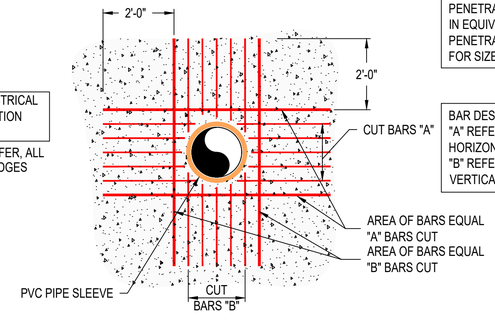
## GENERAL NOTES

1. BUILDING SHALL BE A PREFABRICATED SHED EQUAL TO TUFF SHED PREMIER TALL RANCH STYLE SHED.
2. ROOF SHALL BE WOODEN TRUSS WITH LP PROSTRUCT ROOF SHEATHING OR EQUAL AND 3-TAB SHINGLES. COORDINATE WITH OWNER ON COLOR AND TEXTURE SELECTION PRIOR TO PROCURING SHED.
3. CITY TO PROVIDE AND INSTALL ALL SAFETY EQUIPMENT.
4. BUILDING SHALL HAVE 2x6 WALL FRAMING.
5. CONTRACTOR TO CONFIRM PUMP PAD SIZE, CLEARANCE, AND ANCHORING REQUIREMENTS WITH PACKAGE PUMP STATION MANUFACTURER PRIOR TO POURING PUMP PAD.




## PUMP PAD

301 TYP. — NOT TO SCALE




## PENETRATION AND OPENING REINFORCEMENT

302 TYP. — NOT TO SCALE

NOTE: THIS DETAIL USED FOR SINGLE PENETRATIONS 4" IN DIAMETER AND LARGER, AND IN EQUIVALENT GROUPS OF SMALLER DIAMETER PENETRATIONS. REFER TO MECHANICAL PLANS FOR SIZE AND LOCATION OF PIPE PENETRATIONS.

BAR DESIGNATION NOTES:
"A" REFERS TO CROSS-SECTIONAL AREA OF A HORIZONTAL BAR THAT HAS BEEN CUT.
"B" REFERS TO CROSS-SECTIONAL AREA OF A VERTICAL BAR THAT HAS BEEN CUT.

RH2

RYAN J. FIPSEN — STATE OF WASHINGTON — 49451 — REGISTERED PROFESSIONAL ENGINEER

SIGNED: 3/18/2026

CITY OF KIRKLAND
HIGHLANDS TRBPS: TEMPORARY BOOSTER PUMP STATION

# BOOSTER PUMP STATION STRUCTURAL PLAN

| REVISIONS | | | |
|---|---|---|---|
| NO. | DESCRIPTION | DATE | BY |
| 1 | ISSUED FOR BIDDING | 3/18/2026 | CKB |

JOB NO.: 026-0018
CLIENT: KIR
FILENAME: TRBPS-D-S01.DWG
SAVE DATE: Mar 16, 2026
PLOT DATE: Mar 17, 2026
ENGINEER: CKB
REVIEWED: RJF
RJF — REVIEW — CKB

SCALE: SHOWN

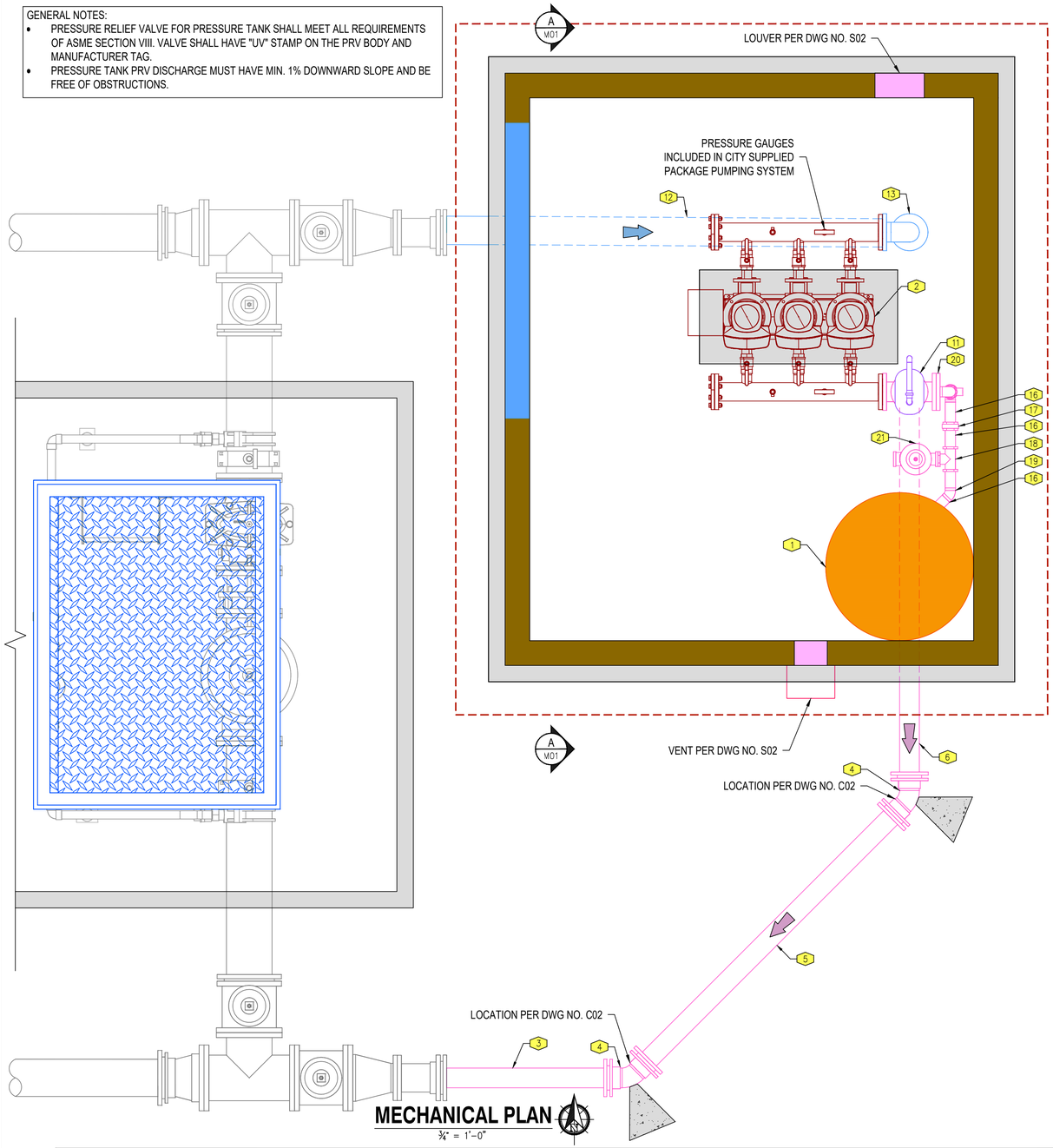
0" 1" 2"

DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

DWG NO.: S02
SHEET NO.: 9 / 16

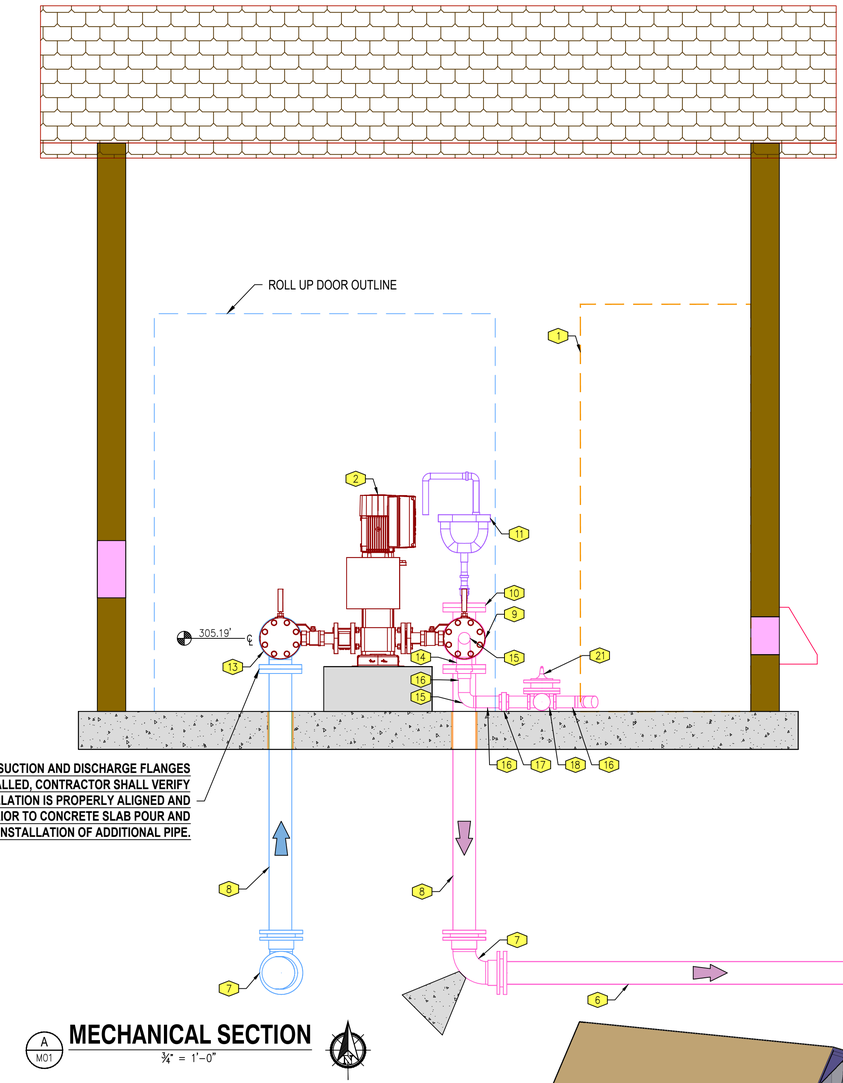
GENERAL NOTES:

- PRESSURE RELIEF VALVE FOR PRESSURE TANK SHALL MEET ALL REQUIREMENTS OF ASME SECTION VIII. VALVE SHALL HAVE "UV" STAMP ON THE PRV BODY AND MANUFACTURER TAG.
- PRESSURE TANK PRV DISCHARGE MUST HAVE MIN. 1% DOWNWARD SLOPE AND BE FREE OF OBSTRUCTIONS.



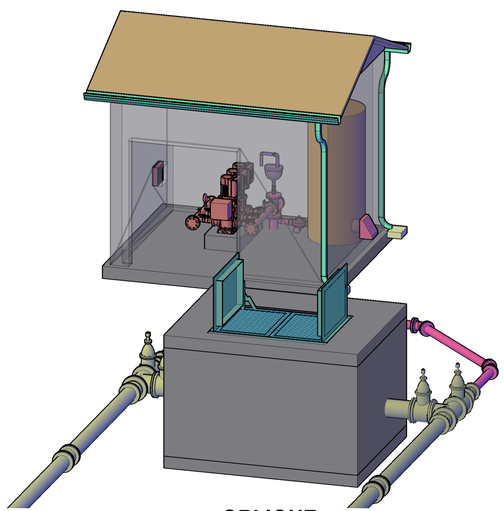

## MECHANICAL PLAN

3/4" = 1'-0"




## MECHANICAL SECTION

3/4" = 1'-0"



## OBLIQUE

NTS

## MECHANICAL LEGEND

1. PRESSURE TANK EQUAL TO AMTROL WELL-X-TROL. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATIO. SECURE WITH EARTHQUAKE STRAPS PER LOCAL CODES.
2. TRIPLEX PACKAGE PUMPING SYSTEM PROVIDED BY CITY. SEE APPENDIX B OF PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. 4" RJ DI PIPE, APPROX. LENGTH 4'-4". REMOVE PLUG IN FLANGE ADAPTER AND CONNECT WITH APPROVED PIPE RESTRAINT.
4. 4" DI 45° BEND (RJxRJ) WITH THRUST BLOCK W02/C05
5. 4" RJ DI PIPE, APPROX. LENGTH 8'-0"
6. 4" RJ DI PIPE, APPROX. LENGTH 8'-3"
7. 4" DI 90° BEND (RJxRJ) WITH THRUST BLOCK W02/C05
8. 4" DI SPOOL (FLxPE), APPROX. LENGTH 5'-4"
9. 4" DI CROSS (FLxFLxFLxFL)
10. 4" DI BLIND FLANGE WITH 1" THREADED TAP
11. 1" AIR RELEASE VALVE EQUAL TO APCO 145C 105/C05
12. 4" RJ DI PIPE, APPROX. LENGTH 8'-8". REMOVE PLUG IN FLANGE ADAPTER AND CONNECT WITH APPROVED PIPE RESTRAINT.
13. 4" DI 90° BEND (FLxFL)
14. 2" FULL PORT BALL VALVE (MNPTxMNPT)
15. 2" BRASS 90° ELBOW
16. 2" BRASS NIPPLE
17. 2" BRASS UNION
18. 2" THREADED BRASS TEE
19. 2" BRASS 45° ELBOW
20. 4" DI BLIND FLANGE WITH 2" THREADED TAP
21. 2" ASME CODE SECTION VIII COMPLIANT PRESSURE RELIEF VALVE WITH OUTLET FACING TO WEST.

RH2

RYAN J. FESSENDEN STATE OF WASHINGTON 49451 REGISTERED PROFESSIONAL ENGINEER

SIGNED: 3/18/2026

CITY OF KIRKLAND

HIGHLANDS TRBPS: TEMPORARY BOOSTER PUMP STATION

# PUMP STATION MECHANICAL PLAN

JOB NO.: 026-0018
CLIENT: KIR
FILENAME: TRBPS-D-M01.DWG
SAVE DATE: Mar 17, 2026
PLOT DATE: Mar 17, 2026
ENGINEER: CKB
REVIEWED: RJF

REVISIONS

| NO. | DATE | DESCRIPTION | BY | REVIEW |
|---|---|---|---|---|
| 2 | 3/18/2026 | ISSUED FOR BIDDING | CKB | RJF |

SCALE: SHOWN

0" 1" 2"

DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

DWG NO.: M01

SHEET NO.: 10 16

## ONE-LINE DIAGRAM SYMBOLS

- CIRCUIT BREAKER
  XXX/YY – CB SIZE & NO. OF POLES
  ET – ELECTRONIC TRIP
  TM – THERMAL MAGNETIC BREAKER
  MCP – MOTOR CIRCUIT PROTECTOR
  SE – SERVICE ENTRANCE
  GFI – GROUND FAULT INTERRUPTER
- FUSE
- FUSED DISCONNECT SWITCH
- PLUG–IN CONNECTION
- RTM — RUN TIME METER
- OC — MOTOR OPERATION COUNTER
- SSRVS — SSRVS – SOLID STATE REDUCED VOLTAGE STARTER
- VARIABLE FREQUENCY DRIVE
- MOTOR STARTER
- MOTOR STARTER W/ OPERATOR DEVICES (A B / C D)
  A – HAND–OFF–AUTO
  B – OPERATIONAL COUNTER
  C – RUN TIME METER
  D – RUN LIGHT
  E – FAIL LIGHT
  F – EMERGENCY STOP
- K — KIRK KEY INTERLOCK
- POWER TRANSFORMER
- CONTROL POWER TRANSFORMER
- TRANSFORMER
- CURRENT TRANSFORMER
- VOLTAGE TRANSFORMER
- CONTACTOR
- CAPACITOR
- ENGINE GENERATOR
- GENERATOR CONNECTION RECEPTACLE
- S/N — SOLID NEUTRAL
- TB — TERMINAL BLOCK
- SURGE PROTECTION DEVICE
- SPD — SURGE PROTECTION DEVICE (ALTERNATIVE)

## GROUNDING SYSTEM SYMBOLS

- GROUND
- METAL PIPE GROUND
- CONNECTION POINT, EXOTHERMIC WELD. CADWELD OR APPROVED EQUAL.
- GROUND ROD SIZED PER N.E.C. USE EXOTHERMIC WELD CONNECTION AT THE GROUND ROD.
- PIGTAIL, BARE COPPER, LENGTH AS REQUIRED, 8' MINIMUM.
- CONNECTION POINT, MECHANICAL, COMPRESSION TYPE.

## ELECTRICAL SITE PLAN SYMBOLS

- UTILITY POLE AND GUY WIRE
- HH — MANHOLE OR HANDHOLE
- P — BURIED POWER VAULT OR MANHOLE
- T — TELEPHONE VAULT OR PEDESTAL
- F — FIBER OPTICS VAULT OR PEDESTAL
- LUMINAIRE
- PAD–MOUNT TRANSFORMER

## PANELBOARDS, SWITCHES, AND EQUIPMENT

- SERVICE ENTRANCE, SWITCHGEAR, MOTOR CONTROL CENTER, OR PANELBOARD
- SURFACE MOUNTED PANELBOARD
- FLUSHED MOUNTED PANELBOARD
- NXX — FIELD CONTROL STATION WITH NEMA REQUIREMENTS.
  N1 – NEMA 1
  N3R – NEMA 3R
  N4 – NEMA 4
  N4SS – NEMA 4 STAINLESS STEEL
  N4F – NEMA 4 FIBERGLASS
  N6 – NEMA 6
  N12 – NEMA 12 GASKETED
- EQUIPMENT MOUNTING STAND
- T — HEATER, WATTAGE NOTED
- EQUIPMENT CONNECTION
- M — SINGLE PHASE MOTOR. HORSEPOWER AS NOTED
- HP — THREE PHASE MOTOR. HORSEPOWER AS NOTED
- HP — SINGLE PHASE MOTOR. HORSEPOWER AS NOTED
- ELECTRICAL PLUG
- DISCONNECT SWITCH
- F — FUSED DISCONNECT SWITCH
- COMBINATION MOTOR STARTER AND DISCONNECT SWITCH

## RECEPTACLES AND JUNCTION BOX SYMBOLS

- J — CEILING JUNCTION BOX
- J — WALL JUNCTION BOX
- J — FLOOR JUNCTION BOX
- DUPLEX WALL RECEPTACLE , 120V
  WP = WEATHERPROOF
  G = GROUNDED
  IG = ISOLATED GROUND
  GFI = GROUND FAULT INTERRUPTER
- DOUBLE DUPLEX
- SINGLE RECEPTACLE, 120V
- SINGLE RECEPTACLE, 208V
- DUPLEX FLOOR RECEPTACLE, 120V
- SPECIAL PURPOSE WALL RECEPTACLE, RATING AS NOTED
- CLOCK
- TV — TELEVISION
- TELEPHONE
- TELEPHONE/DATA WITH CABLE
- TELEPHONE/DATA WITHOUT CABLE

## SWITCH OUTLETS

- S — STANDARD SWITCH, 120VAC, 20 AMP
- S3 — 3WAY — 3–WAY SWITCH, 120VAC, 20 AMP
- SHOA — HOA — 3–POSITION SWITCH, 120VAC, 20 AMP, LABEL SWITCH POSITION HAND–OFF–MOTION OR PHOTO

- SDEE — SINGLE–POLE
- S2 — DOUBLE–POLE
- S3 — THREE WAY
- S4 — FOUR WAY
- SD — DIMMER
- SOS — OCCUPANCY SENSOR
- SP — PILOT–LIGHTED
- SK — KEY–OPERATED
- SLV — LOW VOLTAGE
- SM — MASTER
- PUSHBUTTON

## LIGHTING FIXTURES/DEVICES

- FLUORESCENT FIXTURE
- WALL/CEILING MOUNTED FIXTURE
- EMERGENCY LIGHT WITH SELF CONTAINED BATTERY
- SURFACE OR PENDANT MOUNTED FIXTURE
- RECESSED FIXTURE
- MD — MOTION DETECTOR
- PC — PHOTO CONTROL CELL

## FIRE SYSTEM SYMBOLS

- H — HEAT DETECTOR
- S — SMOKE DETECTOR
- D — FIRE ALARM DISPATCH STROBE ALARM
- A — FIRE ALARM AUDIBLE/VISUAL ALARM
- F — FIRE ALARM MANUAL PULL STATION

## ADDITIONAL SYMBOLS

- S — SOUND SYSTEM SPEAKER
- V — SOUND SYSTEM VOLUME CONTROL
- B — DOORBELL

## VALVE SYMBOLS

- PILOT VALVE SOLENOID
- VALVE
- CHECK VALVE
- CONTROL VALVE

## ABBREVIATIONS

SPDT – SINGLE POLE, DOUBLE THROW
SPST – SINGLE POLE, SINGLE THROW
DPST – DOUBLE POLE, SINGLE THROW
WP – WEATHER–PROOF
GFI – GROUND FAULT INTERRUPT
P – POWER
C – CONTROL
J – INSTRUMENTATION
PC – POWER & CONTROL
CJ – CONTROL & INSTRUMENTATION
CKT. – CIRCUIT
C.O. – CONDUIT ONLY
N.L. – NIGHT LIGHT
AL. – ALUMINUM
CU. – COPPER

| | |
|---|---|
| HOA | HAND–OFF–AUTO SWITCH |
| RTM | RUN TIME METER |
| OC | OPERATION COUNTER |
| MRIL | MOTOR RUN INDICATION LIGHT |
| SFIL | SEAL FAIL INDICATION LIGHT |
| SFTR | SEAL FAIL TRIP RESET |
| OTIL | OVER TEMPERATURE INDICATION LIGHT |
| MOIL | MOTOR OVERLOAD INDICATION LIGHT |

### INDICATE TYPE BY LETTER

- V — A – AMMETER; AH – AMPERE–HOUR; PF – POWER FACTOR; V – VOLTMETER; VA – VOLT AMMETER
- AH — VAR – VARMETER; VARH – VARHOUR METER; W – WATTMETER; WH – WATTHOUR METER

### INSTRUMENT METER

## RACEWAY LEGEND

SITE PLAN LEGEND

- P — PROPOSED POWER
- TEL — PROPOSED TELEPHONE
- TELM — PROPOSED INSTRUMENTATION
- FO — PROPOSED FIBER OPTICS

BUILDING OR FACILITY PLAN LEGEND

- 480 VOLT EXPOSED RACEWAY
- 480 VOLT WIRING CONCEALED, UNDERGROUND, EMBEDDED, OR CONCRETE ENCASED RACEWAY
- 120/208/240 VOLT EXPOSED RACEWAY
- 120/208/240V WIRING CONCEALED, UNDERGROUND, EMBEDDED, OR CONCRETE ENCASED RACEWAY
- CONTROL OR INSTRUMENTATION EXPOSED RACEWAY
- CONTROL OR INSTRUMENTATION, UNDERGROUND, EMBEDDED, OR CONCRETE ENCASED RACEWAY
- HOME RUN TO PANELBOARD OR AS INDICATED
- CONDUIT RUN, BROKEN AND CONTINUED SAME SHEET OR AS NOTED
- FLEXIBLE CONDUIT
- CONDUIT RUN. HATCH MARKS INDICATE NUMBER OF CONDUCTORS
- ½" GRC, 2–#12 — CALLOUT INDICATING CONDUIT SIZE, NUMBER AND SIZE OF WIRE.
- XXX — CALLOUT INDICATING CONDUIT PER SCHEDULE
- CONDUIT BENT UP OR TOWARD
- CONDUIT BENT DOWN OR AWAY
- CAPPED CONDUIT

## ONE-LINE DIAGRAM INFORMATION

- EXISTING EQUIPMENT AND CONDUIT
- PROPOSED EQUIPMENT AND CONDUIT
- GROUNDING EQUIPMENT AND CONDUCTORS
- CONDUIT, WIRING OR EQUIPMENT TO BE REMOVED

## LADDER LOGIC SYMBOL LEGEND

| | |
|---|---|
| INDICATOR LIGHT — A – AMBER G – GREEN; B – BLUE R – RED; C – CLEAR W – WHITE | RELAY (XYZ 123) — RELAY; TR – TIMED RELAY; CR – CONTROL RELAY |
| LIMIT SWITCH — LIMIT SWITCH, NORMALLY OPEN | FLOAT SWITCH — FLOAT SWITCH, NORMALLY OPEN |
| LIMIT SWITCH — LIMIT SWITCH, NORMALLY CLOSED | FLOAT SWITCH — FLOAT SWITCH, NORMALLY CLOSED |
| TIME DELAY CONTACT — TIME DELAY CONTACT, NORMALLY OPEN, TIME TO CLOSE | PUSHBUTTON — PUSHBUTTON, NORMALLY CLOSED |
| TIME DELAY CONTACT — TIME DELAY CONTACT, NORMALLY CLOSED, TIME TO OPEN | PUSHBUTTON — PUSHBUTTON, NORMALLY OPEN |
| TIME DELAY CONTACT — TIME DELAY CONTACT, NORMALLY OPEN, TIME TO OPEN | THERMOSTAT — THERMO SWITCH, NORMALLY OPEN |
| TIME DELAY CONTACT — TIME DELAY CONTACT, NORMALLY CLOSED, TIME TO CLOSE | THERMOSTAT — THERMO SWITCH, NORMALLY CLOSED |
| RELAY CONTACT, NC / RELAY CONTACT, NO — RELAY CONTACT, INSTANTANEOUS CHANGE | FLOWSWITCH — FLOWSWITCH, NORMALLY OPEN |
| PRESSURE SWITCH — PRESSURE SWITCH, NORMALLY OPEN | FLOWSWITCH — FLOWSWITCH, NORMALLY CLOSED |
| PRESSURE SWITCH — PRESSURE SWITCH, NORMALLY CLOSED | 2 POLE SWITCH |
| LADDER LOGIC LINETYPES: COMPONENT INSTALLED INSIDE ENCLOSURE; COMPONENT INSTALLED ON FRONT OF ENCLOSURE; FIELD CONNECTED COMPONENT | 3 POLE SWITCH |

## GENERAL NOTES

1. THIS IS A STANDARD LEGEND. NOT ALL OF THE INFORMATION SHOWN ON THIS PAGE WILL APPEAR IN THIS SET OF PLANS.

2. THESE DRAWINGS ARE DIAGRAMMATIC ONLY; EXACT LOCATIONS OF ELECTRICAL EQUIPMENT SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR. THE INSTALLATION OF ALL EQUIPMENT SHOWN ON THESE DRAWINGS OR DESCRIBED IN THE SPECIFICATIONS SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE LATEST EDITIONS OF ALL APPLICABLE CODES AND UTILITY COMPANY STANDARDS. CONTACT THE UTILITY COMPANY REPRESENTATIVES AND VERIFY THEIR REQUIREMENTS.

3. NOTIFY THE ENGINEER IMMEDIATELY IF CONFLICTS IN EQUIPMENT LOCATIONS ARE DISCOVERED OR IF PROBLEMS ARISE DUE TO FIELD CONDITIONS, LACK OF INFORMATION OR ANY OTHER REASON. NO PAYMENT WILL BE MADE FOR CHANGES WHICH HAVE NOT BEEN REVIEWED BY THE ENGINEER.

RH2

MARK W. BRAASCH — STATE OF WASHINGTON — 51835 — REGISTERED PROFESSIONAL ENGINEER

SIGNED: 3/18/2026

CITY OF KIRKLAND — HIGHLANDS TRBPS: TEMPORARY BOOSTER PUMP STATION

# ELECTRICAL LEGEND

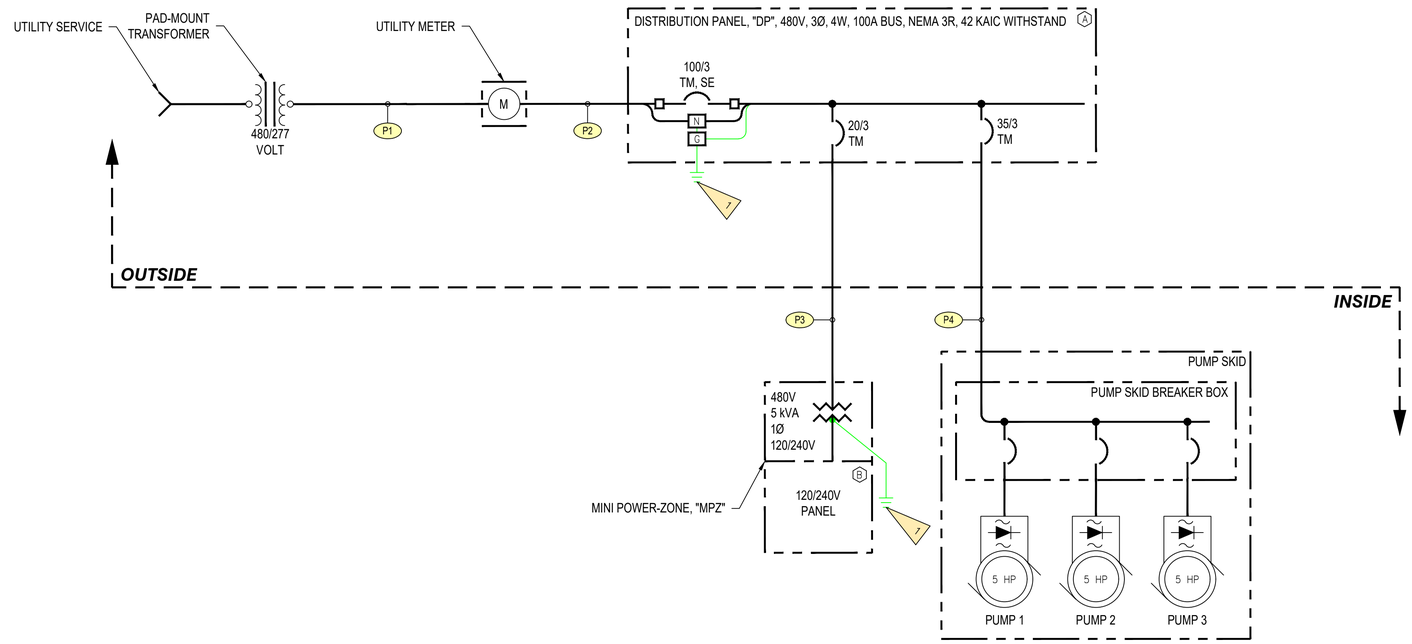
| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 1 | ISSUED FOR BIDDING | 3/18/2026 | CKB |
| | | | RJF |

REVISIONS

JOB NO.: 026-0018
CLIENT: KIR
FILENAME: TRBPS-D-E01.DWG
SAVE DATE: Mar 16, 2026
PLOT DATE: Mar 17, 2026
ENGINEER: RJS
REVIEWED: MWB

SCALE: SHOWN
0" 1" 2"
DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

DWG NO.: E01
SHEET NO.: 11
16

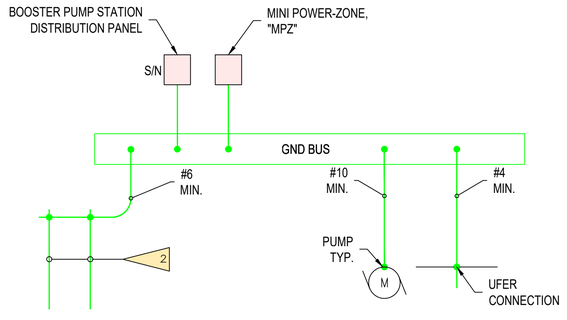



## ONE-LINE DIAGRAM

NO SCALE

| STATION LOAD CALCULATIONS | | |
|---|---|---|
| PUMP 1 | 7.6A X 1.25 = | 9.5 AMPS |
| PUMP 2 | 7.6A X 1.00 = | 7.6 AMPS |
| PUMP 3 | 7.6A X 1.00 = | 7.6 AMPS |
| MINI POWER-ZONE, "MPZ" | 10.4A X 1.00 = | 10.4 AMPS |
| TOTAL | | 35.1 AMPS |

| ELECTRICAL NOTES | |
|---|---|
| 1 | 1. SEE GROUNDING DETAIL, THIS SHEET. |
| 2 | 2. GROUND ROD PER N.E.C. (TYP). SEE DWG NO. E05 FOR DETAIL. |
| XX | 3. SEE DWG NO. E06 FOR CONDUIT AND CONDUCTOR SCHEDULE. |
| X | 4. SEE DWG NO. E06 FOR ELECTRICAL EQUIPMENT SCHEDULE. |




## GROUNDING

NO SCALE

RH2

MARK W. BRAASCH
STATE OF WASHINGTON
51835
REGISTERED PROFESSIONAL ENGINEER

SIGNED: 3/18/2026

CITY OF KIRKLAND
HIGHLANDS TRBPS: TEMPORARY
BOOSTER PUMP STATION

ONE-LINE DIAGRAM

CITY OF KIRKLAND WASHINGTON

JOB NO.: 026-0018
CLIENT: KIR
FILENAME: TRBPS-D-E02.DWG
SAVE DATE: Mar 16, 2026
PLOT DATE: Mar 17, 2026
ENGINEER: RJG
REVIEWED: MWB

REVISIONS

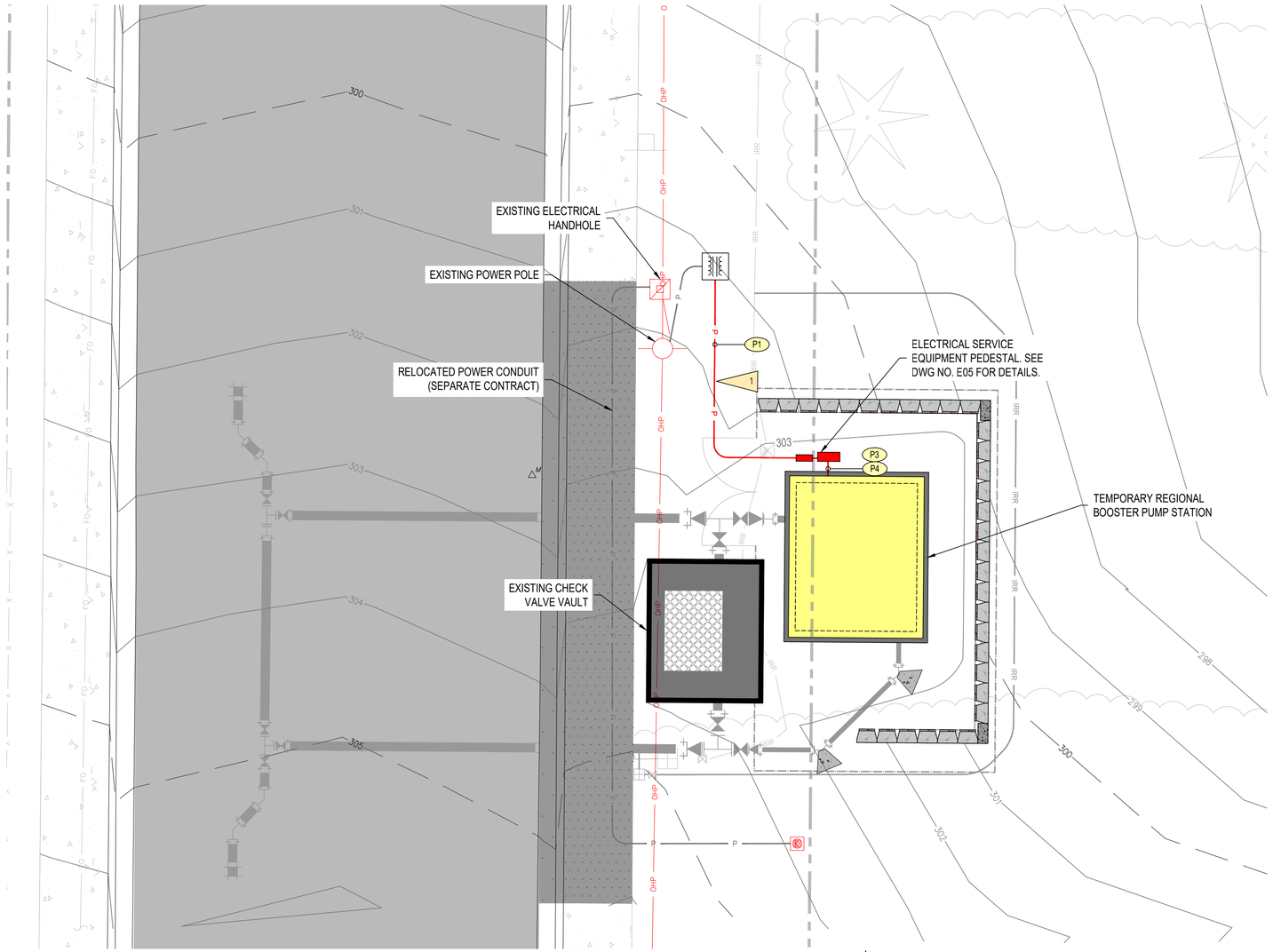
| NO. | DESCRIPTION | DATE | BY | REVIEW |
|---|---|---|---|---|
| 2 | ISSUED FOR BIDDING | 3/18/2026 | CKB | RJF |

SCALE: SHOWN

0" 1" 2"

DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

DWG NO.: E02
SHEET NO.: 12
16




## REGIONAL BPS ELECTRICAL SITE PLAN

1" = 5'

| ELECTRICAL NOTES | |
|---|---|
| 1 | 1. PROPOSED SECONDARY POWER SERVICE BY CONTRACTOR. |
| XX | 2. SEE DWG NO. E06 FOR CONDUIT AND CONDUCTOR SCHEDULE. |

RH2

MARK W. BRAASCH — STATE OF WASHINGTON — 51935 — REGISTERED PROFESSIONAL ENGINEER

SIGNED: 3/18/2026

CITY OF KIRKLAND

HIGHLAND TRBPS: TEMPORARY BOOSTER PUMP STATION

CITY OF KIRKLAND — WASHINGTON

# BOOSTER PUMP STATION ELECTRICAL SITE PLAN

JOB NO.: 026-0018

CLIENT: KIR

FILENAME: TRBPS-D-E03.DWG

SAVE DATE: Mar 16, 2026

PLOT DATE: Mar 17, 2026

ENGINEER: RJG

REVIEWED: MWB

REVISIONS

| NO. | DATE | DESCRIPTION | BY | REVIEW |
|---|---|---|---|---|
| 1 | 3/18/2026 | ISSUED FOR BIDDING | CKB | RJF |

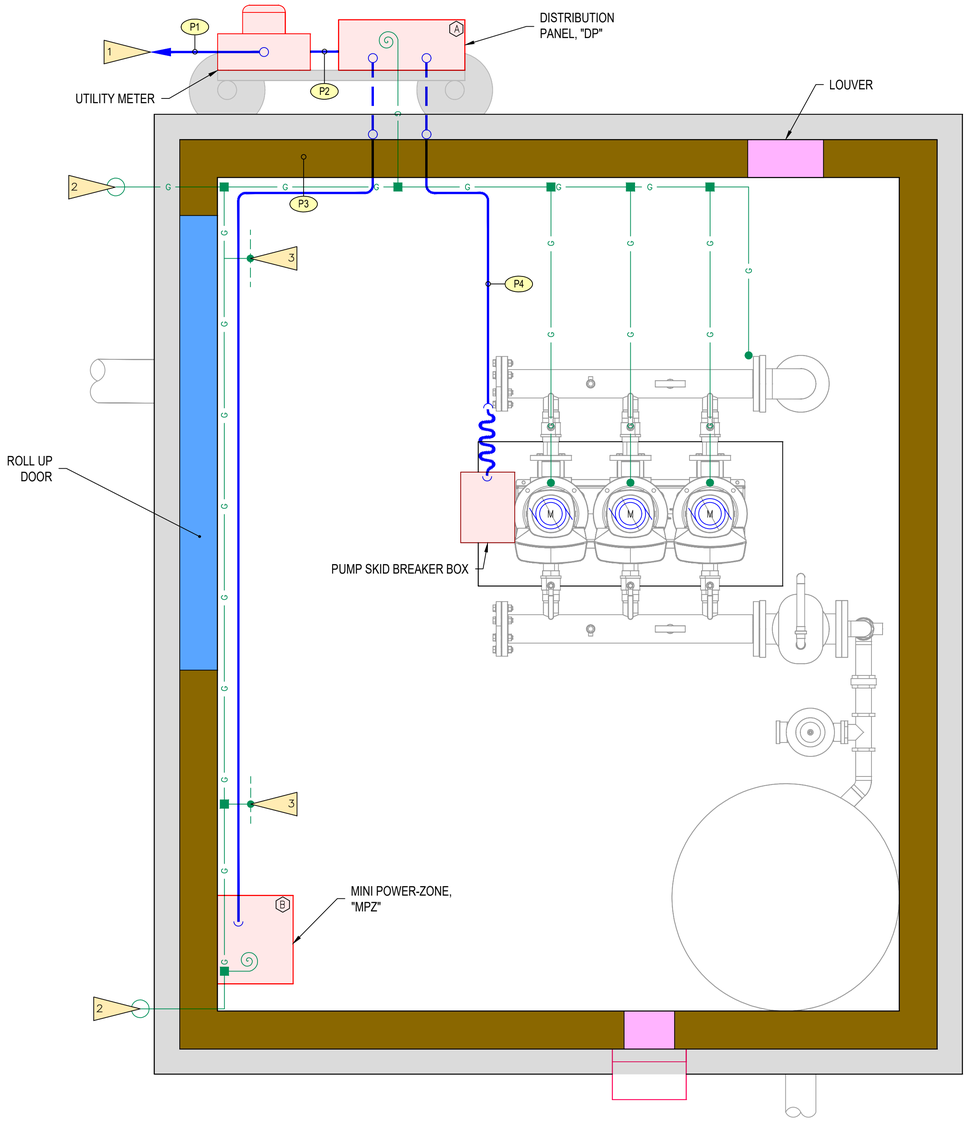
SCALE: SHOWN

0" 1" 2"

DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

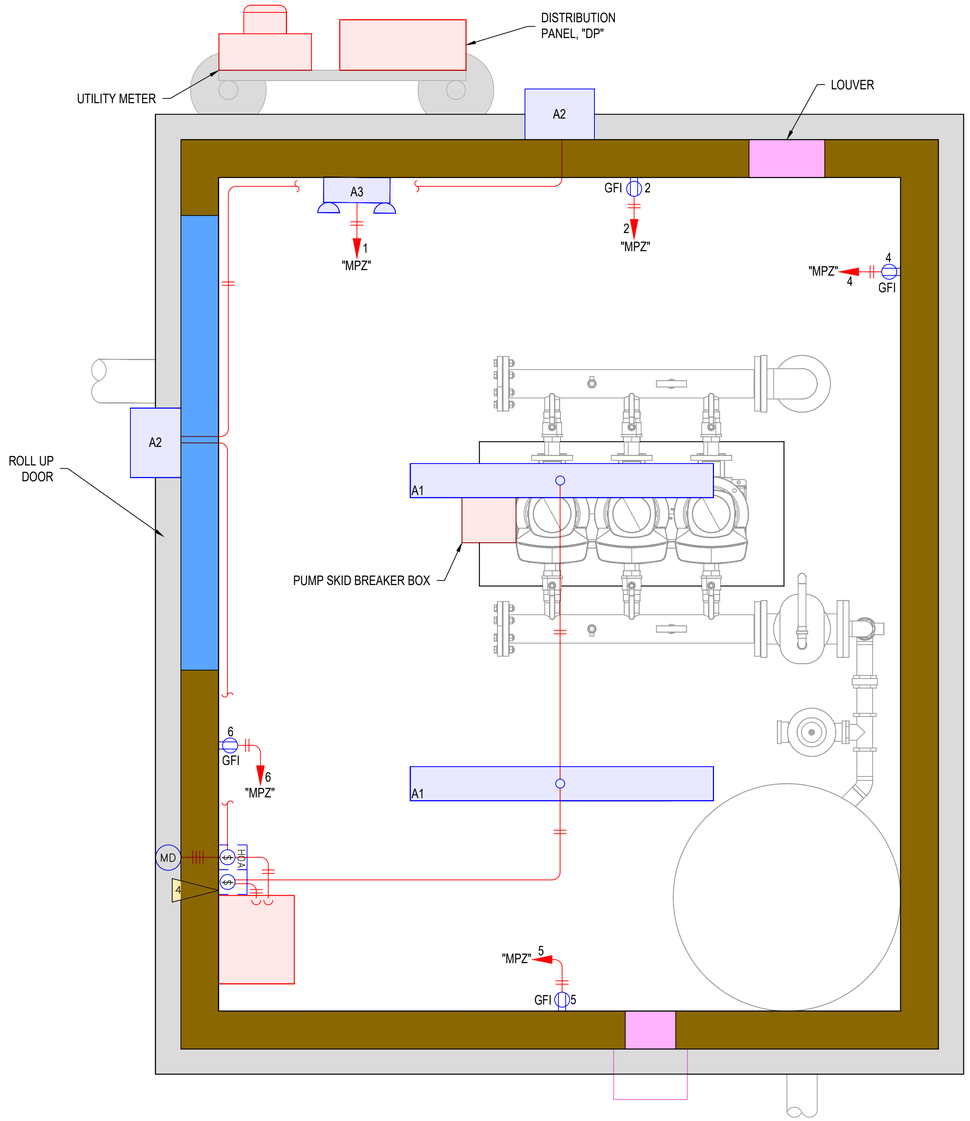
DWG NO.: E03

SHEET NO.: 13 / 16




## POWER DISTRIBUTION AND GROUNDING PLAN

1" = 1'-0"




## LIGHTING AND RECEPTACLE PLAN

1" = 1'-0"

### ELECTRICAL NOTES

| | |
|---|---|
| 1 | 1. SEE ELECTRICAL SITE PLAN DWG NO. E03 FOR CONTINUATION. |
| 2 | 2. GROUND ROD PER N.E.C. (TYPICAL). USE EXOTHERMIC WELD CONNECTION AT THE GROUND ROD. SEE DWG NO. E05 FOR DETAIL. LOCATE GROUND RODS 2' MINIMUM FROM BUILDING FOUNDATION. |
| 3 | 3. CONNECTION TO REINFORCEMENT GRID (TYPICAL OF 2 LOCATIONS). SEE DWG NO. E05 FOR ADDITIONAL DETAIL. |
| 4 | 4. DOUBLE GANG BOX AND SWITCH, SURFACE MOUNTED TO THE WALL |
| | 5. ALL CONDUITS INSIDE THE BUILDING SHALL BE SURFACE MOUNTED. ROUTE ALL CONDUITS ON WALLS AND CEILING TO AVOID TRIPPNG HAZARDS. |
| XX | 6. SEE DWG NO. E06 FOR CONDUIT AND CONDUCTOR SCHEDULE. |
| X | 7. SEE DWG NO. E06 FOR EQUIPMENT SCHEDULE, |
| A# | 8. SEE DWG NO. E06 FOR LIGHTING SCHEDULE. |

RH2

MARK W. BRAASCH — STATE OF WASHINGTON — 51935 — REGISTERED PROFESSIONAL ENGINEER

SIGNED: 3/18/2026

CITY OF KIRKLAND
HIGHLANDS TRBPS: TEMPORARY
BOOSTER PUMP STATION

# BOOSTER PUMP STATION ELECTRICAL PLAN

CITY OF KIRKLAND WASHINGTON

| | |
|---|---|
| ENGINEER: RJG | JOB NO.: 026-0018 |
| REVIEWED: MWB | CLIENT: KIR |
| SAVE DATE: Mar 16, 2026 | FILENAME: TRBPS-D-E04.DWG |
| PLOT DATE: Mar 17, 2026 | |

REVISIONS

| NO. | DATE | DESCRIPTION | BY | REVIEW |
|---|---|---|---|---|
| | | | | RJF |
| | | | CKB | |
| | 3/18/2026 | ISSUED FOR BIDDING | | |
| 1 | | | | |

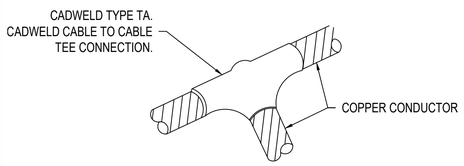
SCALE: SHOWN

0" 1" 2"

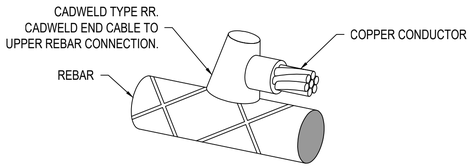
DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

DWG NO.: E04

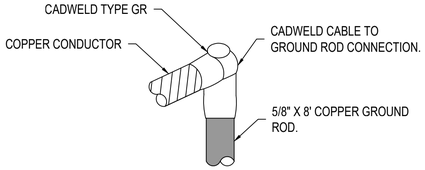
SHEET NO.: 14 / 16



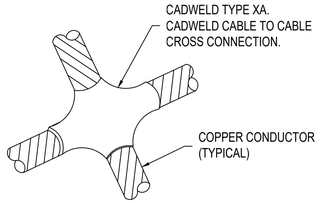

## GROUND TEE DETAIL
NO SCALE



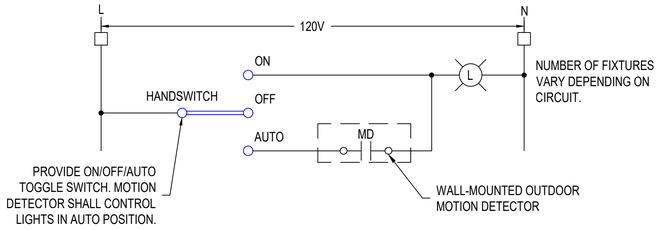

## GROUND REBAR DETAIL
NO SCALE



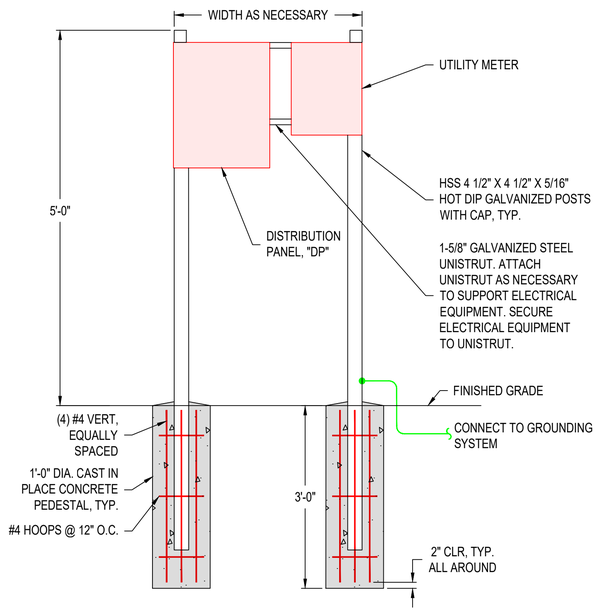

## GROUND TEE DETAIL
NO SCALE




## GROUNDING CROSS DETAIL
NO SCALE

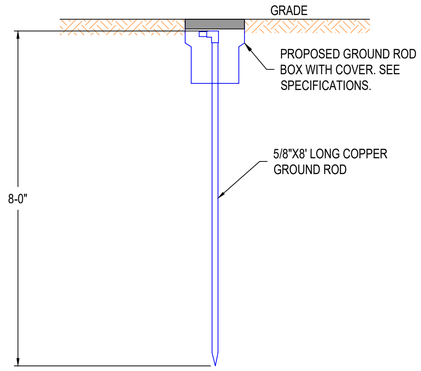



## OUTDOOR BUILDING LIGHTING CIRCUIT
NO SCALE

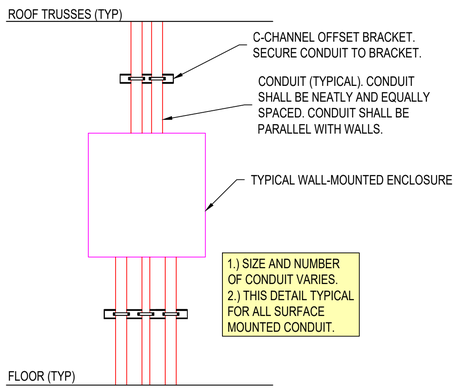



## ELECTRICAL PEDESTAL DETAIL
NOT TO SCALE

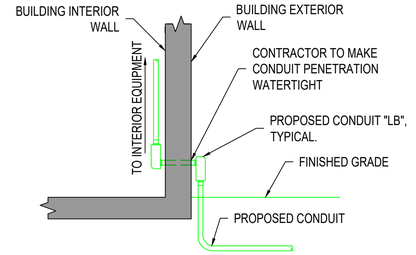
106
TYP.



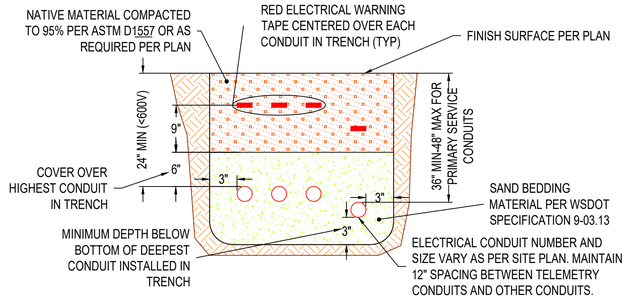

## GROUND ROD DETAIL
NOT TO SCALE




## SURFACE MOUNTED CONDUIT DETAIL
NOT TO SCALE




## BUILDING CONDUIT PENETRATION DETAIL
NOT TO SCALE




## TYPICAL ELECTRICAL TRENCH DETAIL
NOT TO SCALE

NOTE: BURY DEPTH OF CONDUIT AND HORIZONTAL SPACING SHALL BE CONFIRMED WITH SERVING UTILITY BEFORE CONSTRUCTION.

RH2

MARK W. BRAASCH
STATE OF WASHINGTON
51835
REGISTERED
PROFESSIONAL ENGINEER

SIGNED: 3/18/2026

CITY OF KIRKLAND
HIGHLANDS TRBPS: TEMPORARY
BOOSTER PUMP STATION

# ELECTRICAL DETAILS

| | |
|---|---|
| JOB NO.: | 026-0018 |
| CLIENT: | KIR |
| FILENAME: | TRBPS-D-E05.DWG |
| SAVE DATE: | Mar 16, 2026 |
| PLOT DATE: | Mar 17, 2026 |
| ENGINEER: | RJG |
| REVIEWED: | MWB |

REVISIONS

| NO. | DATE | DESCRIPTION | BY | REVIEW |
|---|---|---|---|---|
| 1 | 3/18/2026 | ISSUED FOR BIDDING | CKB | RJF |

SCALE: SHOWN
0" 1" 2"
DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

DWG NO.: E05
SHEET NO.: 15
16

## POWER CONDUIT AND CONDUCTOR SCHEDULE

| CIRCUIT | SOURCE | DESTINATION | TRADE SIZE | (QUANTITY) CONDUCTORS | NOTES |
|---|---|---|---|---|---|
| P1 | UTILITY TRANSFORMER | UTILITY METER | 1 1/4" | (2) – #3, (1) – #3 N | |
| P2 | UTILTY METER | DISTRIBUTION PANEL, "DP" | 1 1/4" | (2) – #3, (1) – #3 N | |
| P3 | DISTRIBUTION PANEL, "DP" | MINI POWER–ZONE, "MPZ" | 3/4" | (2) – #12, (1) – #12 GRD | |
| P4 | DISTRIBUTION PANEL, "DP" | PUMP SKID BREAKER BOX | 3/4" | (2) – #10, (1) – #10 GRD | |

## MINI POWER-ZONE PANEL SCHEDULE

NO. MPZ LOCATION: BOOSTER PUMP STATION
SERVING: BOOSTER PUMP STATION LOADS

240/120 VOLTS 1φ 3 WIRE
100 AMP MAIN

| CIRCUIT DESCRIPTION | KVA | AMP | | AMP | KVA | CIRCUIT DESCRIPTION |
|---|---|---|---|---|---|---|
| PUMP STATION INTERIOR LIGHTING/EMERGENCY LIGHT | 0.11 | 20 | 1 — 2 | 20 | 0.18 | NORTH INTERIOR RECEPTACLE |
| PUMP STATION EXTERIOR LIGHTING | 0.10 | 20 | 3 — 4 | 20 | 0.18 | EAST INTERIOR RECEPTACLE |
| SOUTH INTERIOR RECEPTACLE | 0.18 | 20 | 5 — 6 | 20 | 0.18 | WEST INTERIOR RECEPTACLE |
| SPARE | – | 20 | 7 — 8 | 20 | – | SPARE |
| SPARE | – | 20 | 9 — 10 | 20 | – | SPARE |

CONNECTION LOAD: 0.93 KVA 7.75 AMPS

DEMAND: LIGHTING & RECEPTACLE LOAD

DEMAND LOAD: 0.93 KVA 7.75 AMPS

## LIGHTING FIXTURE SCHEDULE

| TYPE | DESCRIPTION | MANUFACTURER NAME | MANUFACTURER CATALOG NO. | FIXTURE WATTAGE | FIXTURE LUMENS | REMARKS |
|---|---|---|---|---|---|---|
| A1 | LED LIGHT FIXTURE, 120VAC, 4'–4" LONG, 5000K COLOR TEMPERATURE, 60,000 HOUR LED, HIGH EFFICIENCY DRIVER, HIGH–IMPACT ACRYLIC LENS, MOLDED FIBERGLASS HOUSING, CEILING MOUNTED. U.L. LISTED FOR WET LOCATIONS. | LITHONIA | FEM L48 6000LM IMAFL 50K | 45W | 6,000 LM | |
| A2 | LED OUTDOOR WALL PACK LIGHT – 120VAC, 10 LED, 1000mA DRIVER, 5000K COLOR TEMPERATURE, DARK BRONZE FINISH. MOUNT BOTTOM OF FIXTURE 1'–0" ABOVE DOOR. U.L. LISTED FOR WET LOCATIONS. | LITHONIA | DSXW1 LED 10C 1000 50K T3M 120 DDBXD | 40W | 3,900 LM | |
| A3 | DUAL HEAD EMERGENCY LIGHT – (2)–1.8W LED LAMPS, DUAL–VOLTAGE INPUT 120VAC/277VAC, 3 3/4" H, 14 5/8" W, THERMOPLASTIC HOUSING, INTEGRATED RECHARGEABLE BATTERY, MOUNT BOTTOM OF FIXTURE 1'–0" ABOVE DOOR, U.L. LISTED FOR DAMP LOCATIONS. | LITHONIA | EU2 LED M12 | 1.8W | N/A | |

## ELECTRICAL EQUIPMENT AND INSTRUMENTATION SCHEDULE

| ITEM | DESCRIPTION | MANUFACTURER | MODEL NO. |
|---|---|---|---|
| A | DISTRIBUTION PANEL – 480/277V, 3φ, 4W, NEMA 3R ENCLOSURE, 100A MAIN CIRCUIT BREAKER, SERVICE ENTRANCE RATED, COPPER BUSSING. | SIEMENS | TYPE P2 OR EQUAL |
| B | MINI POWER–ZONE – 5KVA, 480–120/240 VAC, 3φ, 42 KAIC WITHSTAND, MINIMUM 10 CIRCUIT BREAKER SPACES, NEMA 3R ENCLOSURE | SQUARE D | MPU5S40F OR EQUAL |

RH2

MARK W. BRAASCH — STATE OF WASHINGTON — 51935 — REGISTERED PROFESSIONAL ENGINEER

SIGNED: 3/18/2026

CITY OF KIRKLAND
HIGHLANDS TRBPS: TEMPORARY
BOOSTER PUMP STATION

CITY OF KIRKLAND — WASHINGTON

# ELECTRICAL SCHEDULES

| | |
|---|---|
| ENGINEER: | RJG |
| REVIEWED: | MWB |
| SAVE DATE: | Mar 16, 2026 |
| PLOT DATE: | Mar 17, 2026 |
| CLIENT: | KIR |
| FILENAME: | TRBPS-D-E05.DWG |
| JOB NO: | 026-0018 |

REVISIONS

| NO. | DATE | DESCRIPTION | BY | REVIEW |
|---|---|---|---|---|
| 1 | 3/18/2026 | ISSUED FOR BIDDING | CXB | RJF |

SCALE: SHOWN

0" 1" 2"

DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

DWG NO.: E06

SHEET NO.: 16 / 16