

Plotted By: Kim, Jenna Sheet: Sat-Ripplewood Water Layout: G.01 May 31, 2023 08:25:00am K:\SNO_Civil\SNO-Public\090070001 Ripplewood WM Replacement\2 - CADD\3 - Sheets\General.dwg
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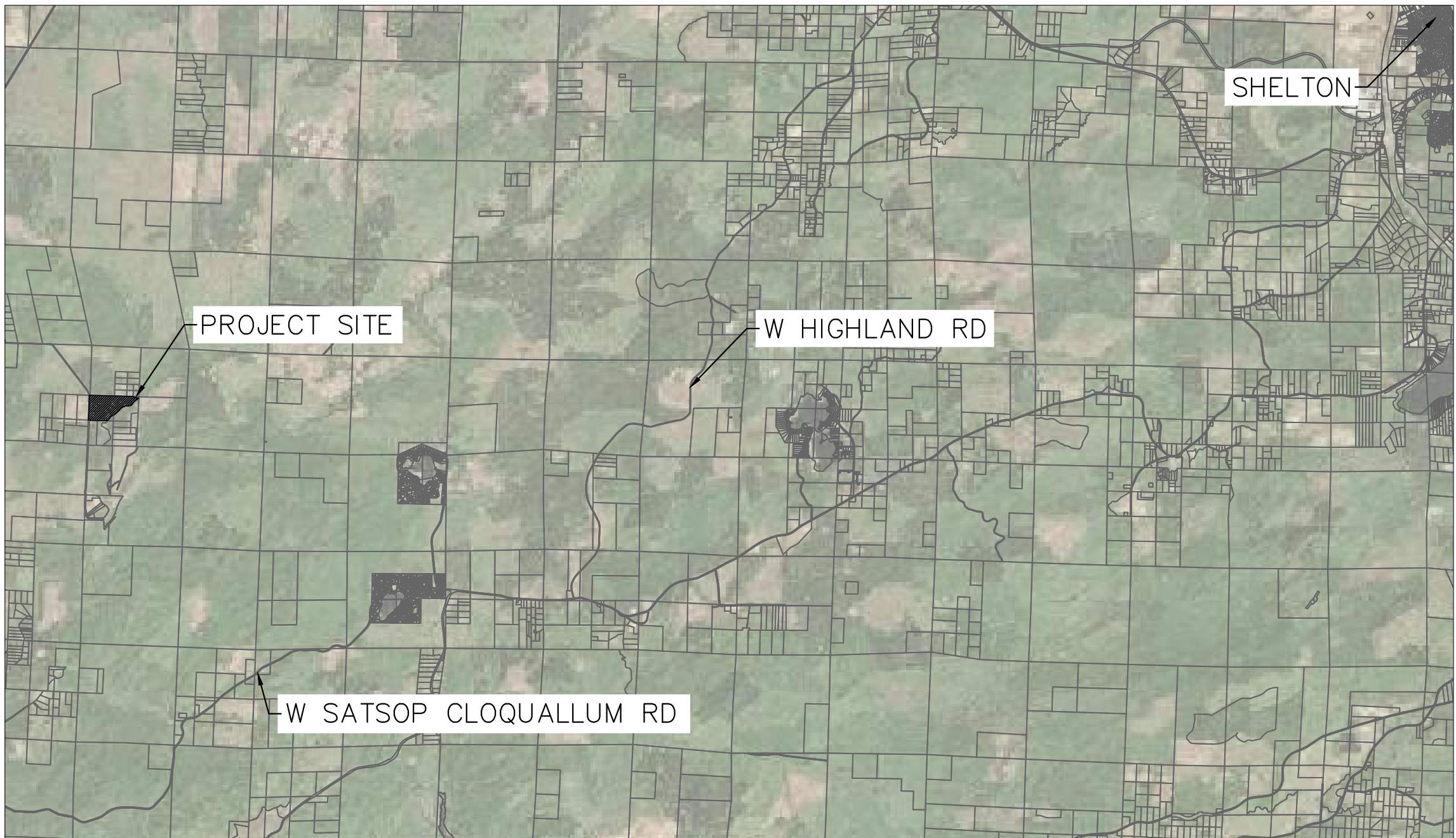


MASON COUNTY PUBLIC UTILITY DISTRICT NO. 1

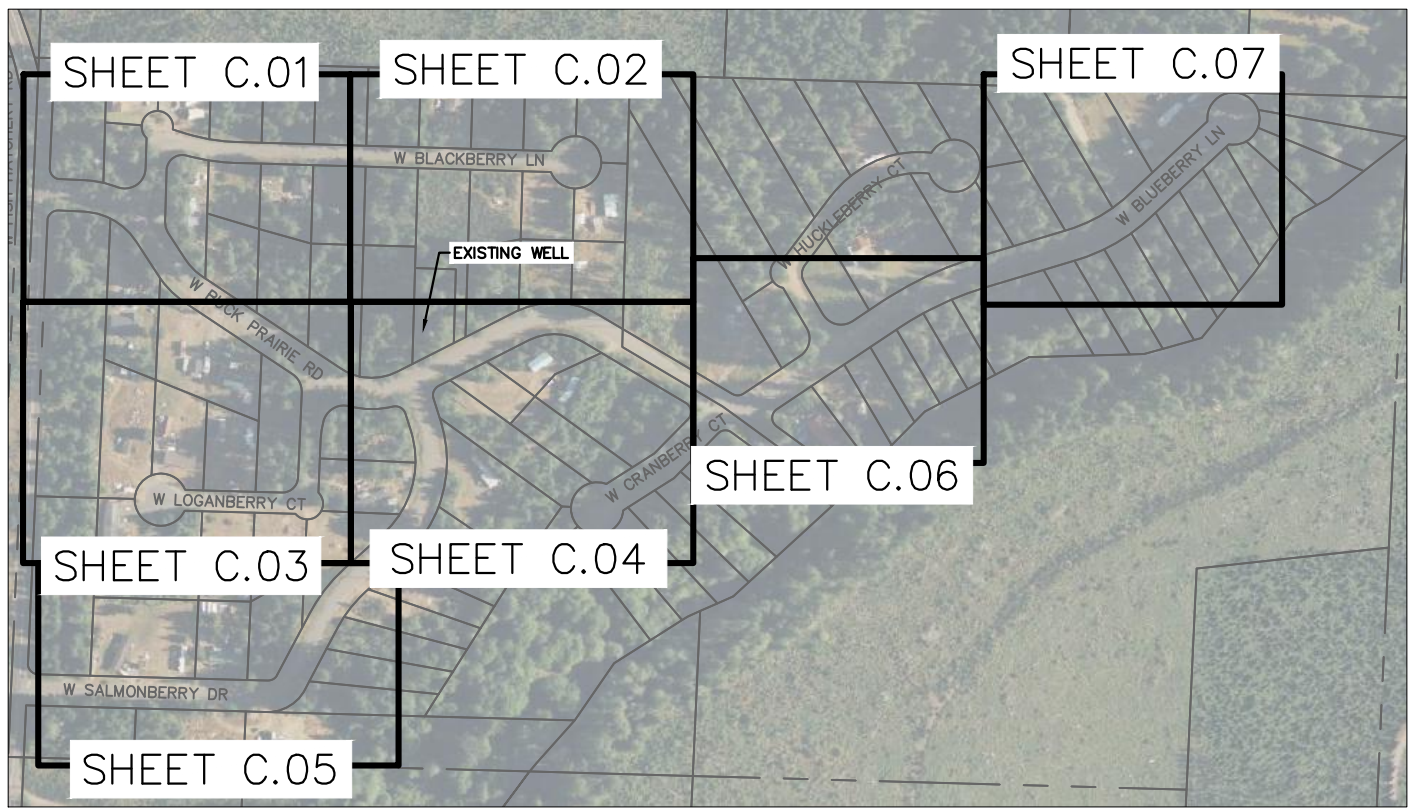
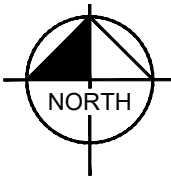
RIPPLEWOOD WATER MAIN REPLACEMENT

MAY 2023

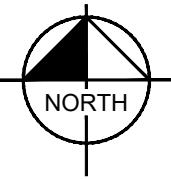
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| 5 | C.02 | WATER MAIN PLANS – W BLACKBERRY LN |
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VICINITY MAP
NOT TO SCALE



SHEET INDEX
NOT TO SCALE



PUD OFFICIALS:

MIKE SHEETZ
DISTRICT 1 COMMISSIONER

RON GOLD
DISTRICT 2 COMMISSIONER

JACK JANDA
DISTRICT 3 COMMISSIONER

PROJECT DATA:

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BY:
Kimley»Horn

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Know what's below.
Call before you dig.



DATE: 5/31/2023

G.01

1 OF 12

TESC NOTES:

- ALL GRADING SHALL COMPLY WITH PERMIT CONDITIONS, CURRENT MASON COUNTY PUD AND MASON COUNTY CODES AND DEVELOPMENT STANDARDS AND STATE (WSDOT) STANDARD SPECIFICATIONS, CURRENT EDITION.
2. IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY THE CONTRACTOR'S ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES THAT MAY BE NEEDED TO PROTECT THE NATURAL FEATURES OR ADJACENT PROPERTIES.
3. THE TEMPORARY EROSION/SEDIMENTATION CONTROL FACILITIES SHALL BE CONSTRUCTED PRIOR TO ANY GRADING OR SIT WORK. THESE FACILITIES MUST BE SATISFACTORILY MAINTAINED UNTIL CONSTRUCTION AND LANDSCAPING IS COMPLETED AND WITHIN 30 DAYS OF FINAL SITE STABILIZATION OR UNTIL THE POTENTIAL FOR ON-SITE EROSION HAS PASSED.
4. ALL PERSONS ENGAGING IN CONSTRUCTION ACTIVITIES SHALL PREVENT OR MINIMIZE EROSION AND SEDIMENTATION ON-SITE, AND SHALL PROTECT PROPERTIES AND WATER COURSES DOWNSTREAM FROM THE SITE.
5. NON COMPLIANCE WITH THE EROSION CONTROL REQUIREMENTS, WATER QUALITY REQUIREMENTS AND/OR CLEARING LIMITS MAY RESULT IN REVOCATION OF PROJECT PERMITS, REVOCATION OF PLAN APPROVAL, AND BOND FORECLOSURES.
6. PRIOR TO INITIATION OF SITE WORK, HIGHLY VISIBLE MARKERS SUCH AS ORANGE BARRIER FENCING OR FLAGGING SHALL BE USED TO IDENTIFY CLEARING LIMITS AND EXISTING NGPA AREAS.
7. ALL STREETS SHALL BE KEPT CLEAR OF DIRT AND DEBRIS DURING EXCAVATION AND FILL OPERATIONS. SWEEP STREETS IMMEDIATELY WHEN DIRT HAS BEEN TRACKED ONTO PAVED SURFACES.
8. STOCKPILES ARE TO BE LOCATED IN SAFE AREAS AND ADEQUATELY PROTECTED WITHIN 24 HOURS OF FORMATION TO PREVENT SOIL LOSS AND EROSION.
9. FROM MAY 1 TO SEPTEMBER 30, NO SOIL SHALL REMAIN EXPOSED FOR MORE THAN 7 DAYS. DENUDED AREAS SHALL BE COVERED BY MULCH, SOD, PLASTIC OR EQUIVALENT BMP LISTED IN THE WASHINGTON STATE DOE SWMMWW. FROM OCTOBER 1 TO APRIL 30, NO SOIL SHALL REMAIN EXPOSED FOR MORE THAN 2 DAYS.
10. CONTRACTOR IS RESPONSIBLE FOR PREVENTING SURFACE WATER FROM RUNNING INTO EXCAVATIONS AND/OR PUMPING SURFACE RUN-OFF FROM EXCAVATION AND WORK AREA AS NEEDED.
11. DEWATERING IS NOT EXPECTED ON THIS PROJECT. SHOULD SMALL AMOUNTS OF LOCALIZED DEWATERING BE NECESSARY FOR TRENCH WORK, DISPOSE OF PUMPED TURBID WATER BY A DOE APPROVED METHOD.
12. FILTER FABRIC FENCE AND ALL OTHER TESC MEASURES SHALL BE CHECKED IMMEDIATELY AFTER EACH RAINFALL EVENT IN EXCESS OF 0.1" AND DAILY DURING PROLONGED RAIN EVENTS. MAINTENANCE AND REPAIR OF TESC FACILITIES AND STRUCTURES SHALL BE CONDUCTED IMMEDIATELY UPON RECOGNITION OF A PROBLEM OR DAMAGE.
13. SEDIMENT DEPOSITS SHALL BE REMOVED FROM ALL TEMPORARY DRAINAGE FACILITIES AND STRUCTURES UPON REACHING A DEPTH OF 6".
14. SUFFICIENT TESC BMP MATERIALS AND SUPPLIES TO PROTECT THE ENTIRE SITE SHALL BE STOCK PILED ON SITE.
15. NOTIFY PROJECT ENGINEER AND OWNER IMMEDIATELY IF CONTAMINANTS ARE ENCOUNTERED DURING CONSTRUCTION.
16. WHERE POSSIBLE MAINTAIN NATURAL VEGETATION FOR EROSION CONTROL.
17. CONSTRUCTION ACCEPTANCE WILL BE SUBJECT TO A WELL ESTABLISHED GROUND COVER THAT FULFILLS THE REQUIREMENT OF THE APPROVED CONSTRUCTION PLANS AND MASON COUNTY DRAINAGE STANDARDS.
18. IMMEDIATELY FOLLOWING FINISH GRADING, PERMANENT VEGETATION SHALL BE APPLIED. ALL DISTURBED AREAS NOT DESIGNATED FOR OTHER SURFACE RESTORATION SHALL BE SEEDDED WITH A PERENNIAL GROUND COVER GRASS TO MINIMIZE EROSION.
19. ALL AREAS TO BE SEEDDED SHALL BE CULTIVATED TO THE SATISFACTION OF THE INSPECTOR. THIS MAY BE ACCOMPLISHED BY DISCING, RAKING, HARROWING OR OTHER ACCEPTABLE MEANS. PERFORM ALL CULTIVATION OPERATIONS ACROSS OR AT RIGHT ANGLES TO THE SLOPE. IF REQUIRED INTERCEPTOR DIKE/SWALES, LEVEL SPREADERS, AND SEDIMENT BASINS SHALL BE INSTALLED PRIOR TO SEEDING.
20. TRANSPORT ALL UNUSED OR UNSUITABLE EXCAVATED MATERIALS OFF SITE TO APPROVED STORAGE LOCATION, EXCEPT AS ALLOWED IN THE SPECIFICATIONS. LIMIT TRUCK ACTIVITY TO PAVED AND GRAVELED SURFACES ONLY. MAINTAIN TRUCK ACCESS AREAS WHERE CLEAR OR DIRT AND SEDIMENT DURING PERIODS OF TRUCK ACTIVITY.
21. ADDITIONAL REQUIREMENTS FOR UTILITIES. THE INSTALLATION OF UNDERGROUND UTILITY LINES SHALL BE SUBJECT TO THE FOLLOWING ADDITIONAL REQUIREMENTS:
 - 21.1. NO MORE THAN 150' OF TRENCH MAY REMAIN OPEN AT A TIME;
 - 21.2. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPWILL SIDE OF THE TRENCHES, UNLESS INCONSISTENT WITH SAFETY OR SITE CONSTRAINTS

WASHINGTON DOE SWPPP ELEMENTS:

THE FOLLOWING IS INTENDED TO SERVE AS A GUIDE OF THE BMPS EXPECTED TO BE USED ON THIS PROJECT. SHOULD CONDITIONS DIFFER FROM PLANS, FURTHER POLLUTION PROTECTION BE WARRANTED, A RECOMMENDED BMP IS UNSUITABLE AND NOT FUNCTIONING AS INTENDED, OR A DIFFERING SUITABLE BMP IS PREFERRED; THE ALTERNATIVE BMP SHALL BE IMPLEMENTED IMMEDIATELY AT DIRECTION OF THE CESCL.

ELEMENT 1 - PRESERVE VEGETATION/MARK CLEARING LIMITS:
BMP C101 PRESERVING NATURAL VEGETATION
BMP C233 SILT FENCE

ELEMENT 2 – ESTABLISH CONSTRUCTION ACCESS
BMP C107 CONSTRUCTION ROAD/PARKING AREA STABILIZATION

ELEMENT 3 – CONTROL FLOW RATES
BMP UNEXPECTED TO BE WARRANTED FOR THE PROPOSED WORK, IF WORK
CONDITIONS CHANGE IMPLEMENT APPROPRIATE BMPS.

ELEMENT 4 - INSTALL SEDIMENT CONTROLS
BMP C233 SILT FENCE
BMP C235 WATTLES

ELEMENT 5 - STABILIZE SOILS
BMP UNEXPECTED TO BE WARRANTED FOR THE PROPOSED WORK, IF WORK
CONDITIONS CHANGE IMPLEMENT APPROPRIATE BMPS.

ELEMENT 6 - PROTECT SLOPES
BMP UNEXPECTED TO BE WARRANTED FOR THE PROPOSED WORK, IF WORK
CONDITIONS CHANGE IMPLEMENT APPROPRIATE BMPs.

ELEMENT 7 - PROTECT DRAIN INLETS
BMP UNEXPECTED TO BE WARRANTED FOR THE PROPOSED WORK, IF WORK
CONDITIONS CHANGE IMPLEMENT APPROPRIATE BMPS.

ELEMENT 8 - STABILIZE CHANNELS AND OUTLETS
BMP UNEXPECTED TO BE WARRANTED FOR THE PROPOSED WORK, IF WORK
CONDITIONS CHANGE IMPLEMENT APPROPRIATE BMPS.

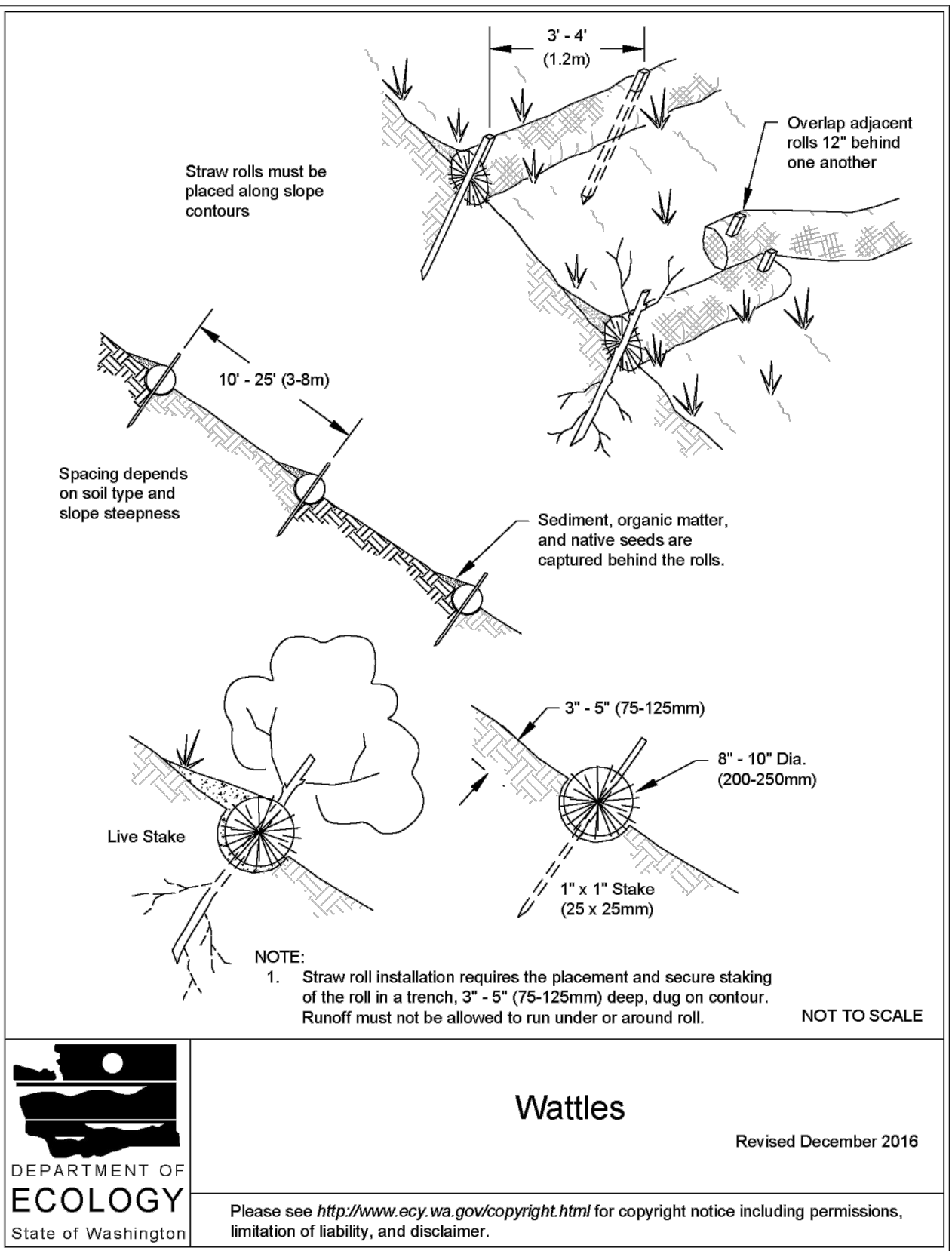
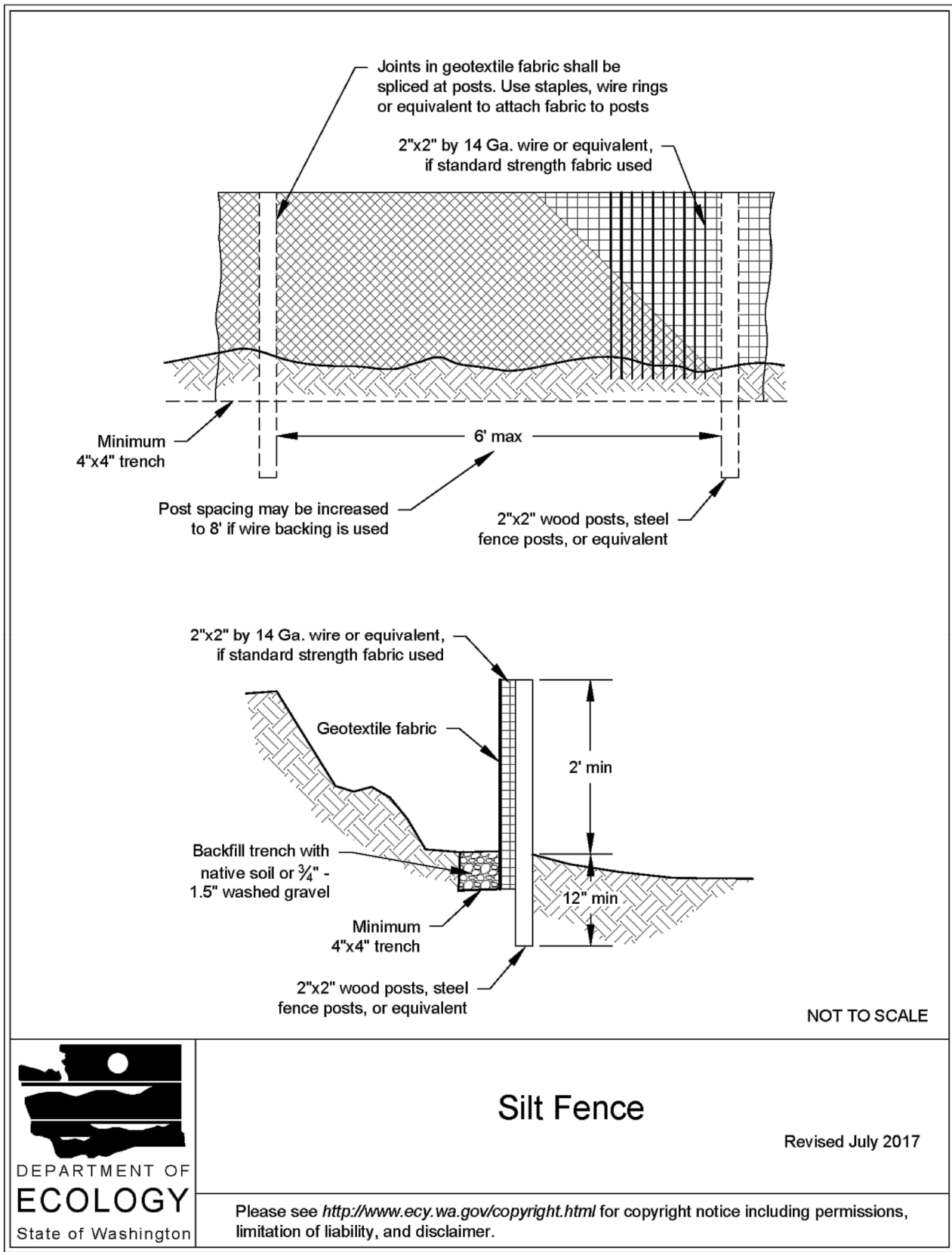
ELEMENT 9 - CONTROL POLLUTANTS
BMP C152 SAWCUTTING AND SURFACE POLLUTION PREVENTION

ELEMENT 10 - CONTROL DEWATERING
USE OF A SEDIMENTATION BAG WITH OUTFALL TO A DITCH OR SWALE FOR SMALL
VOLUMES OF LOCALIZED DEWATERING.

ELEMENT 11 - MAINTAIN BMPS
BMP C150 MATERIALS ON HAND
BMP C160 CERTIFIED EROSION AND SEDIMENT CONTROL LEAD

ELEMENT 12 - MANAGE THE PROJECT
 BMP C150 MATERIALS ON HAND
 BMP C160 CERTIFIED EROSION AND SEDIMENT CONTROL LEAD
 BMP C162 SCHEDULING

ELEMENT 13 – PROTECT LOW IMPACT DEVELOPMENT BMPS
BMP UNEXPECTED TO BE WARRANTED FOR THE PROPOSED WORK, IF WORK
CONDITIONS CHANGE IMPLEMENT APPROPRIATE BMPS.

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EROSION CONTROL NOTES

G.03

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**MASON PUBLIC UTILITY
DISTRICT NO. 1
RIPPLEWOOD WATER
MAIN REPLACEMENT**

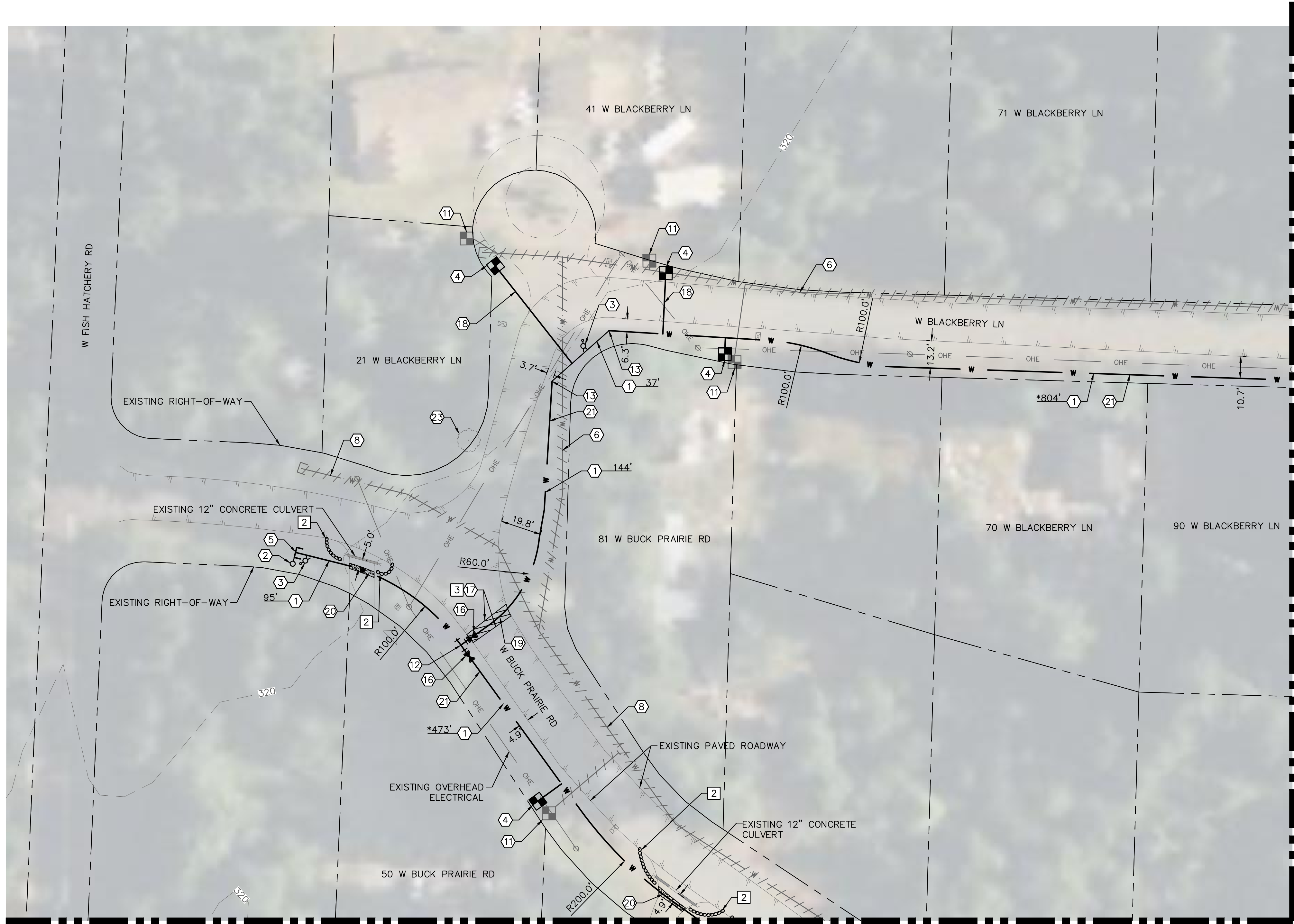
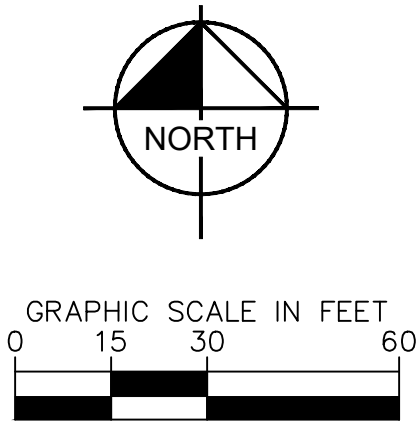
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| KHA - PROJECT 090070001 | DATE 05/30/2023 | SCALE - AS SHOWN |
| DESIGNED BY GTC | CHECKED BY DM | |

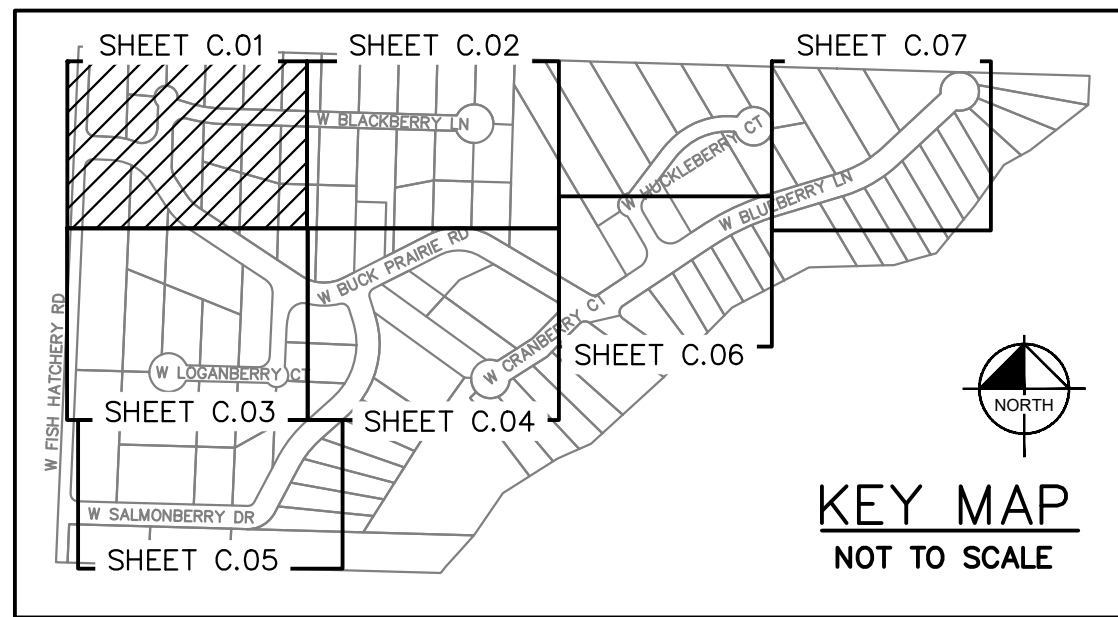


DATE: 5/31/2023



MATCHLINE SEE SHEET C.03

MATCHLINE SEE SHEET C.02



WATER NOTES:

- ① INSTALL 4" SDR11 HDPE BUTT FUSED WATER MAIN, TRENCH AND BEDDING PER DETAIL 5/D.01
- ② INSTALL BLOW OFF VALVE ASSEMBLY AT END OF LINE PER DETAIL 1/D.01
- ③ INSTALL 1" AIR RELEASE VALVE ASSEMBLY AT HIGH POINT PER DETAIL 2/D.01
- ④ INSTALL METER BOX AND 1" WATER SERVICE PER DETAIL 8/D.02, 9/D.02 AND 10/D.02, MAXIMUM 5' DISTANCE FROM EXISTING METER
- ⑤ INSTALL 4" SDR11 HDPE END CAP, BUTT FUSED TO MAIN
- ⑥ EXISTING 2" PVC WATER MAIN TO BE CAPPED OR PLUGGED AND ABANDONED IN PLACE
- ⑧ EXISTING 3" PVC WATER MAIN TO BE CAPPED OR PLUGGED AND ABANDONED IN PLACE
- ⑪ ONCE SERVICE SWAPPED AND EXISTING MAIN HAS BEEN ABANDONED, PUD TO SALVAGE HARDWARE, CONTRACTOR TO RESTORE DISTURBED SURFACES
- ⑫ INSTALL 4" SDR11 HDPE ELECTROFUSION TEE, PER MANUFACTURER DIRECTION
- ⑬ INSTALL 4" SDR11 HDPE ELECTROFUSION 45° BEND, PER MANUFACTURER DIRECTION
- ⑯ INSTALL:
1-4" DUCTILE IRON GATE VALVE, FL, PER DETAIL 3/D.01
2-4" SDR11 HDPE BUTT FUSION FLANGE ADAPTERS AND BACKING RINGS
- ⑰ FULL DEPTH SAWCUT
- ⑱ INSTALL 1" SERVICE USING HOLE HAWG OR OTHER DIRECTIONAL DRILLING WHEN IN PAVED AREA
- ⑲ RESTORE ASPHALT PER DETAIL 5/D.01
- ⑳ RESTORE GRAVEL PER DETAIL 5/D.01
- ㉑ RESTORE ROADSIDE PER DETAIL 5/D.01
- ㉓ PROTECT TREE ROOTS DURING EXCAVATION AND CONSTRUCTION, HAND DIG IF NECESSARY. SEVERING ANY ROOTS LARGER THAN 4" REQUIRES A LICENSED ARBORIST ONSITE DURING CUTTING AT CONTRACTOR EXPENSE.

TESC NOTES:

- 2 INSTALL WATTLES PER DTL ON SHEET G.03
- 3 APPLY BMP C152 PER DOE MANUAL

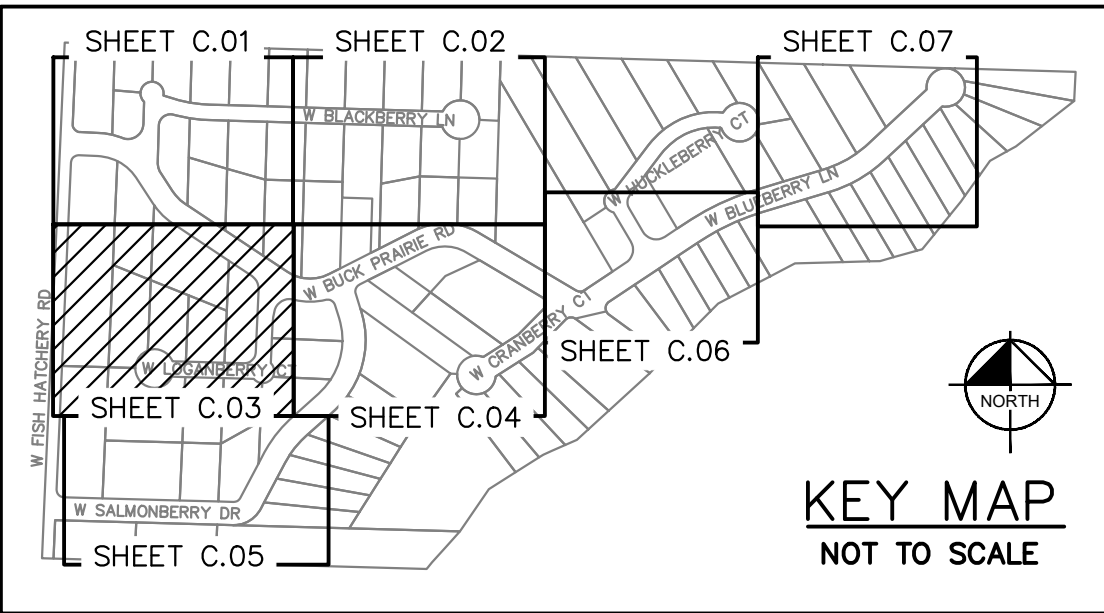
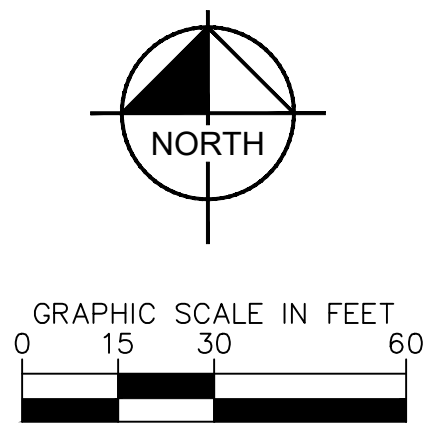
NOTES:

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2. CONTRACTOR SHALL SURVEY THE PROJECT PRIOR TO CONSTRUCTION TO VERIFY EXISTING RIGHT-OF-WAY, UTILITIES, AND ROADWAY LIMITS TO SATISFY FOR THEMSELVES THE WORK TO BE PERFORMED.
3. CONTRACTOR TO MAINTAIN A MINIMUM 36" DEPTH OF COVER FOR THE PROPOSED WATER MAIN THROUGHOUT SITE.
4. CONTRACTOR TO VERIFY AIR RELEASE VALVES ARE PLACED AT LOCAL WATER MAIN HIGH POINTS.
5. MINIMUM ALLOWABLE COLD BEND RADIUS FOR 4" SDR11 HDPE IS 50'.
6. MAILBOXES IMPEDING CONSTRUCTION TO BE TEMPORARILY RELOCATED TO WITHIN 10' OF EXISTING POSITION AND REPLACED AT ORIGINAL POSITION ONCE WATER MAIN CONSTRUCTION IS COMPLETE.

*WATER MAIN SPANS MULTIPLE SHEETS, TOTAL BUTT FUSED LENGTH BETWEEN ELECTRO FUSION FITTINGS DISPLAYED

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|------|---|--|--|------------------------|---|-----|-----------|------|----|
| C.01 | WATER MAIN PLANS - W BUCK PRAIRE RD & W BLACKBERRY LN | MASON PUBLIC UTILITY DISTRICT NO. 1 RIPPLEWOOD WATER MAIN REPLACEMENT | KHA PROJECT 090070001 DATE 05/30/2023 SCALE AS SHOWN DESIGNED BY GTC DRAWN BY GTC CHECKED BY DM | <p>DATE: 5/31/2023</p> | <p>© May 30, 2023 KIMLEY-HORN AND ASSOCIATES, INC. 2828 COLBY AVENUE, SUITE 200, EVERETT, WA, 98201</p> | No. | REVISIONS | DATE | BY |
|------|---|--|--|------------------------|---|-----|-----------|------|----|

Plotted By: Kim, Jenna Sheet Set: KHA Layout: C.03 May 31, 2023 08:27:47am K:\SNO_Civil\SNO-Public\090070001 Ripplewood WM Replacement\2 - CADD\3 - Sheets\Water Main Improvements.dwg
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- ⑪ ONCE SERVICE SWAPPED AND EXISTING MAIN HAS BEEN ABANDONED, PUD TO SALVAGE HARDWARE, CONTRACTOR TO RESTORE DISTURBED SURFACES
- ⑫ INSTALL 4" SDR11 HDPE ELECTROFUSION TEE, PER MANUFACTURER DIRECTION
- ⑬ INSTALL:
1-4" DUCTILE IRON GATE VALVE, FL, PER DETAIL 3/D.01
2-4" SDR11 HDPE BUTT FUSION FLANGE ADAPTERS AND BACKING RINGS
- ⑰ FULL DEPTH SAWCUT
- ⑱ INSTALL 1" SERVICE USING HOLE HAWG OR OTHER DIRECTIONAL DRILLING WHEN IN PAVED AREA
- ⑲ RESTORE ASPHALT PER DETAIL 5/D.01
- ⑳ RESTORE GRAVEL PER DETAIL 5/D.01
- ㉑ RESTORE ROADSIDE PER DETAIL 5/D.01
- ㉒ PROTECT ROCK GARDEN DURING CONSTRUCTION
- ㉓ PROTECT TREE ROOTS DURING EXCAVATION AND CONSTRUCTION, HAND DIG IF NECESSARY. SEVERING ANY ROOTS LARGER THAN 4" REQUIRES A LICENSED ARBORIST ONSITE DURING CUTTING AT CONTRACTOR EXPENSE.

TESC NOTES:

- ② INSTALL WATTLES PER DTL ON SHEET G.03
- ③ APPLY BMP C152 PER DOE MANUAL

NOTES:

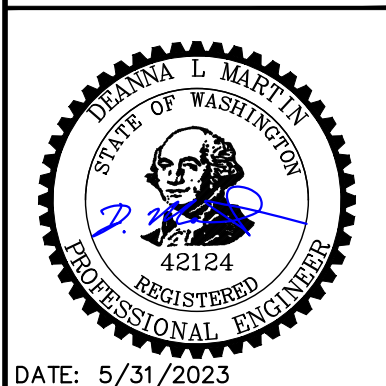
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3. CONTRACTOR TO MAINTAIN A MINIMUM 36" DEPTH OF COVER FOR THE PROPOSED WATER MAIN THROUGHOUT SITE.
4. CONTRACTOR TO VERIFY AIR RELEASE VALVES ARE PLACED AT LOCAL WATER MAIN HIGH POINTS.
5. MINIMUM ALLOWABLE COLD BEND RADIUS FOR 4" SDR11 HDPE IS 50'.
6. MAILBOXES IMPEDING CONSTRUCTION TO BE TEMPORARILY RELOCATED TO WITHIN 10' OF EXISTING POSITION AND REPLACED AT ORIGINAL POSITION ONCE WATER MAIN CONSTRUCTION IS COMPLETE.

*WATER MAIN SPANS MULTIPLE SHEETS, TOTAL BUTT FUSED LENGTH BETWEEN ELECTRO FUSION FITTINGS DISPLAYED

| No. | REVISIONS | DATE | BY |
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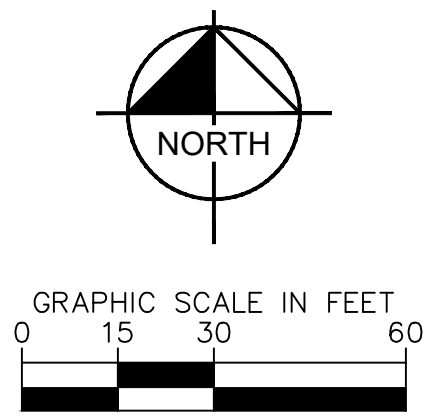


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| KHA PROJECT | 090070001 | DATE | 05/30/2023 | SCALE | AS SHOWN | DESIGNED BY | GTC | DRAWN BY | GTC | CHECKED BY | DM |
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MASON PUBLIC UTILITY
DISTRICT NO. 1
RIPPLEWOOD WATER
MAIN REPLACEMENT

WATER MAIN PLANS -
W BUCK PRAIRIE RD
& W LOGANBERRY CT

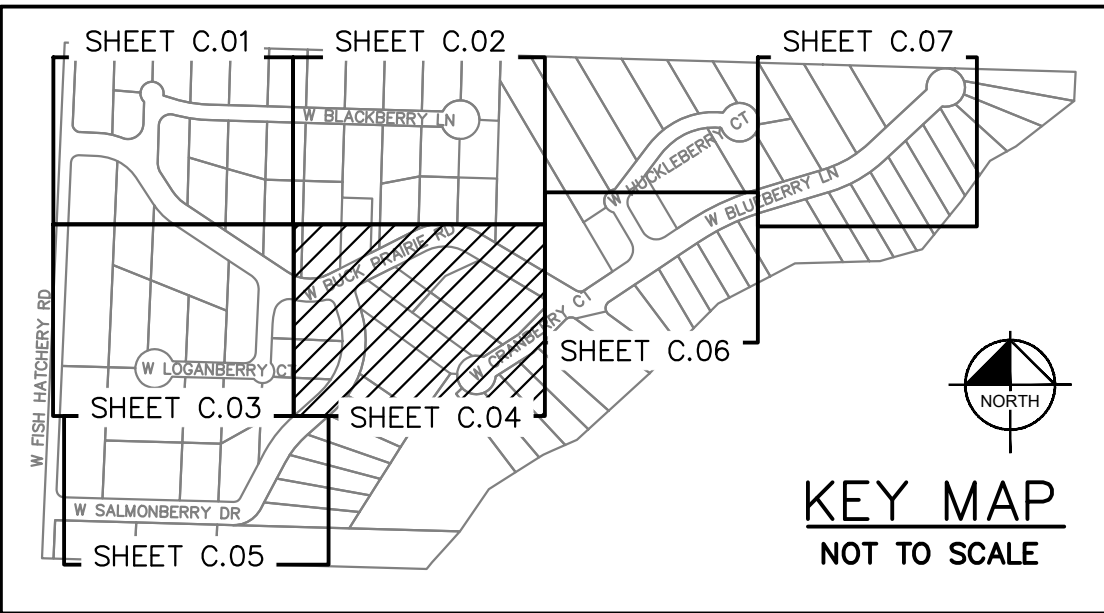
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MATCHLINE SEE SHEET C.02



MATCHLINE SEE SHEET C.05



WATER NOTES:

1. INSTALL 4" SDR11 HDPE BUTT FUSED WATER MAIN, TRENCH AND BEDDING PER DETAIL 5/D.01
2. INSTALL BLOW OFF VALVE ASSEMBLY AT END OF LINE PER DETAIL 1/D.01
3. INSTALL 1" AIR RELEASE VALVE ASSEMBLY AT HIGH POINT PER DETAIL 2/D.01
4. INSTALL METER BOX AND 1" WATER SERVICE PER DETAIL 8/D.02, 9/D.02 AND 10/D.02, MAXIMUM 5' DISTANCE FROM EXISTING METER
5. INSTALL 4" SDR11 HDPE END CAP, BUTT FUSED TO MAIN
6. EXISTING 2" PVC WATER MAIN TO BE CAPPED OR PLUGGED AND ABANDONED IN PLACE
8. EXISTING 3" PVC WATER MAIN TO BE CAPPED OR PLUGGED AND ABANDONED IN PLACE
9. EXISTING 4" PVC WATER MAIN TO BE CAPPED OR PLUGGED AND ABANDONED IN PLACE
10. EXISTING BLOW OFF VALVE, PROTECT DURING CONSTRUCTION. DISTRICT WILL REMOVE EXISTING BLOW OFF FOLLOWING CONSTRUCTION.
11. ONCE SERVICE SWAPPED AND EXISTING MAIN HAS BEEN ABANDONED, PUD TO SALVAGE HARDWARE, CONTRACTOR TO RESTORE DISTURBED SURFACES
12. INSTALL 4" SDR11 HDPE ELECTROFUSION TEE, PER MANUFACTURER DIRECTION
13. INSTALL 4" SDR11 HDPE ELECTROFUSION 45° BEND, PER MANUFACTURER DIRECTION
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2-4" SDR11 HDPE BUTT FUSION FLANGE ADAPTERS AND BACKING RINGS
17. FULL DEPTH SAWCUT
18. INSTALL 1" SERVICE USING HOLE HAWG OR OTHER DIRECTIONAL DRILLING WHEN IN PAVED AREA
19. RESTORE ASPHALT PER DETAIL 5/D.01
20. RESTORE GRAVEL PER DETAIL 5/D.01
21. RESTORE ROADSIDE PER DETAIL 5/D.01
23. PROTECT TREE ROOTS DURING EXCAVATION AND CONSTRUCTION, HAND DIG IF NECESSARY. SEVERING ANY ROOTS LARGER THAN 4" REQUIRES A LICENSED ARBORIST ONSITE DURING CUTTING AT CONTRACTOR EXPENSE.
24. CULVERT CROSSING, CONTRACTOR TO INSTALL PROPOSED HDPE WATER MAIN ABOVE CULVERT AT A MINIMUM 1' VERTICAL SEPARATION AT CROSSING

TESC NOTES:

1. INITIAL SILT FENCE PER DTL ON SHEET G.03
2. INSTALL WATTLES PER DTL ON SHEET G.03
3. APPLY BMP C152 PER DOE MANUAL

NOTES:

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4. CONTRACTOR TO VERIFY AIR RELEASE VALVES ARE PLACED AT LOCAL WATER MAIN HIGH POINTS.
5. MINIMUM ALLOWABLE COLD BEND RADIUS FOR 4" SDR11 HDPE IS 50'.
6. MAILBOXES IMPEDING CONSTRUCTION TO BE TEMPORARILY RELOCATED TO WITHIN 10' OF EXISTING POSITION AND REPLACED AT ORIGINAL POSITION ONCE WATER MAIN CONSTRUCTION IS COMPLETE.

*WATER MAIN SPANS MULTIPLE SHEETS, TOTAL BUTT FUSED LENGTH BETWEEN ELECTRO FUSION FITTINGS DISPLAYED

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DATE: 5/31/2023

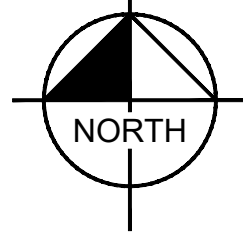
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| 090070001 | 05/30/2023 | AS SHOWN | GTC | GTC | DW | |

MASON PUBLIC UTILITY
DISTRICT NO. 1
RIPPLEWOOD WATER
MAIN REPLACEMENT

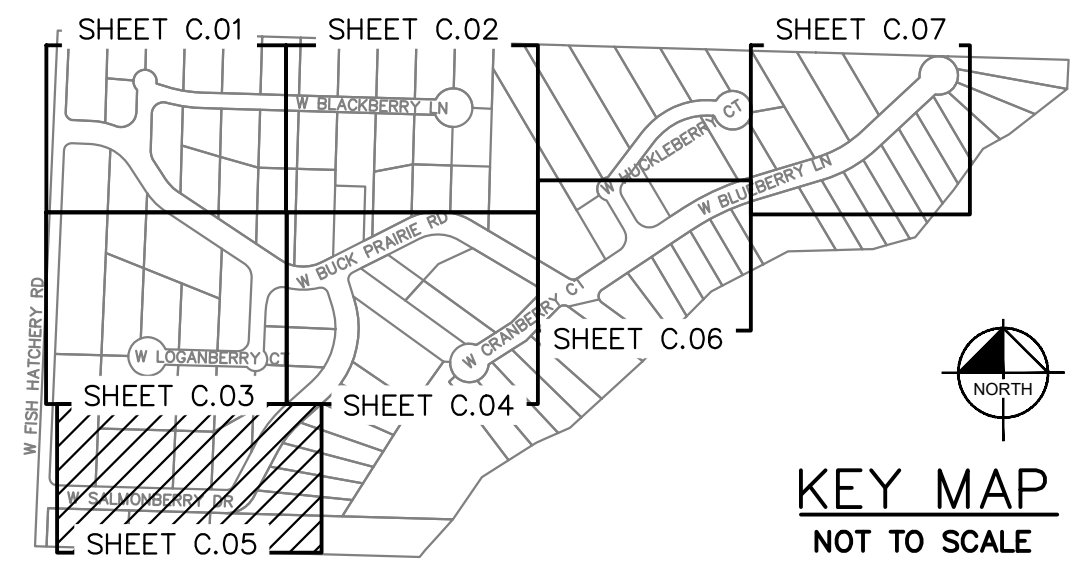
WATER MAIN PLANS -
W BUCK PRAIRIE RD &
W SALMONBERRY DR

C.04

7 OF 12



MATCHLINE SEE
SHEET C.04



- ① INSTALL 4" SDR11 HDPE BUTT FUSED WATER MAIN, TRENCH AND BEDDING PER DETAIL 5/D.01
- ② INSTALL BLOW OFF VALVE ASSEMBLY AT END OF LINE PER DETAIL 1/D.01
- ③ INSTALL 1" AIR RELEASE VALVE ASSEMBLY AT HIGH POINT PER DETAIL 2/D.01
- ④ INSTALL METER BOX AND 1" WATER SERVICE PER DETAIL 8/D.02, 9/D.02 AND 10/D.02, MAXIMUM 5' DISTANCE FROM EXISTING METER
- ⑤ INSTALL 4" SDR11 HDPE END CAP, BUTT FUSED TO MAIN
- ⑥ EXISTING 4" PVC WATER MAIN TO BE CAPPED OR PLUGGED AND ABANDONED IN PLACE
- ⑦ ONCE SERVICE SWAPPED AND EXISTING MAIN HAS BEEN ABANDONED, PUD TO SALVAGE HARDWARE, CONTRACTOR TO RESTORE DISTURBED SURFACES
- ⑧ INSTALL 1" SERVICE USING HOLE HAWG OR OTHER DIRECTIONAL DRILLING WHEN IN PAVED AREA
- ⑨ RESTORE GRAVEL PER DETAIL 5/D.01
- ⑩ RESTORE ROADSIDE PER DETAIL 5/D.01
- ⑪ PROTECT TREE ROOTS DURING EXCAVATION AND CONSTRUCTION, HAND DIG IF NECESSARY. SEVERING ANY ROOTS LARGER THAN 4" REQUIRES A LICENSED ARBORIST ONSITE DURING CUTTING AT CONTRACTOR EXPENSE.

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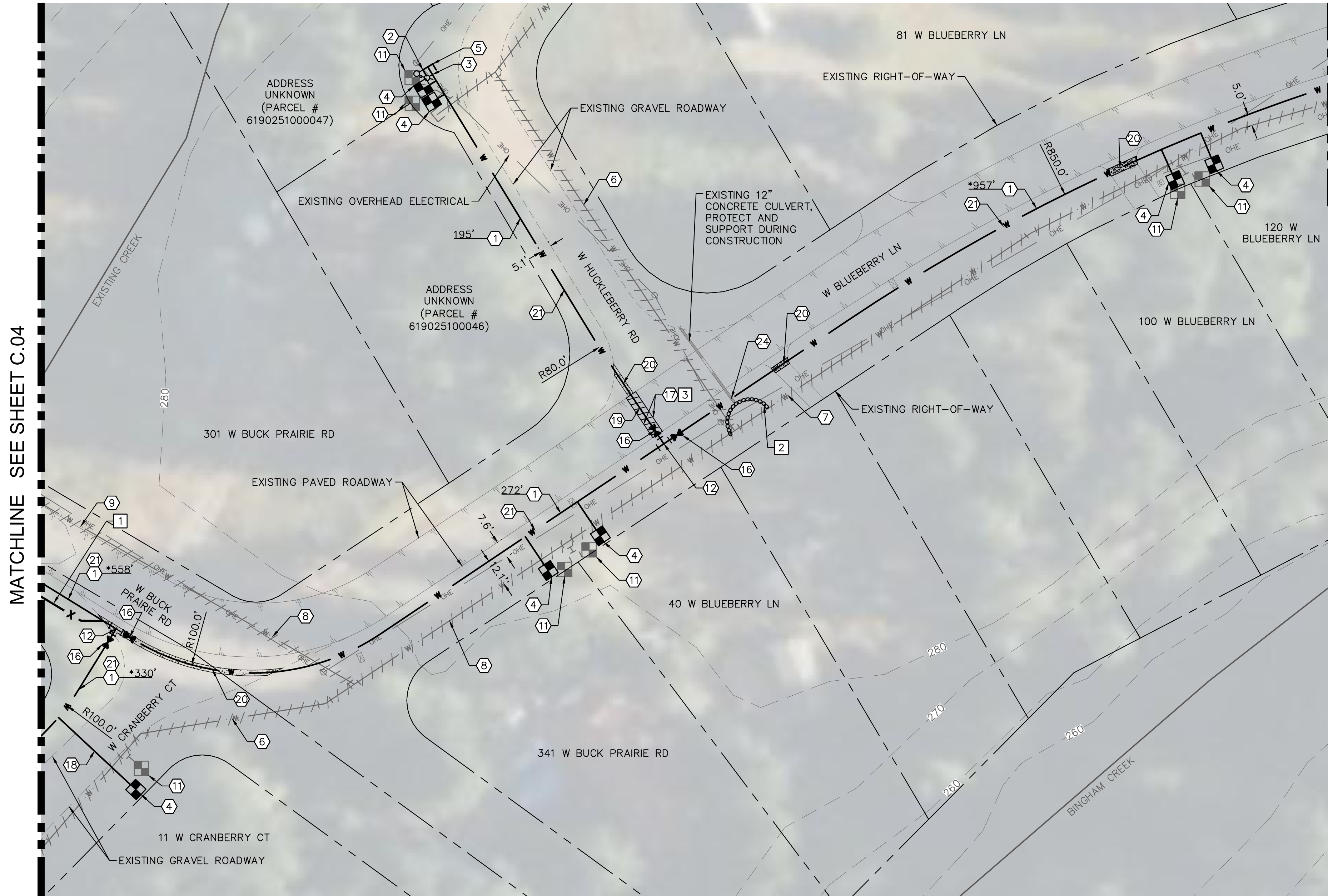
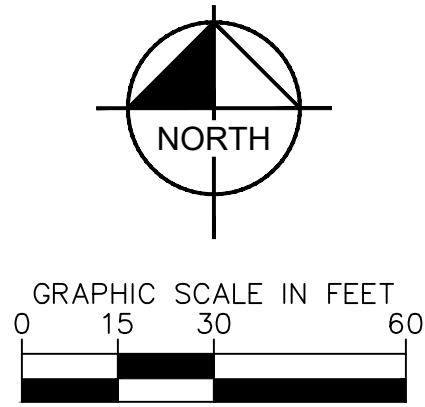


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| 090070001 | 05/30/2023 |
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| DRAWN BY | GTC |
| CHECKED BY | DM |

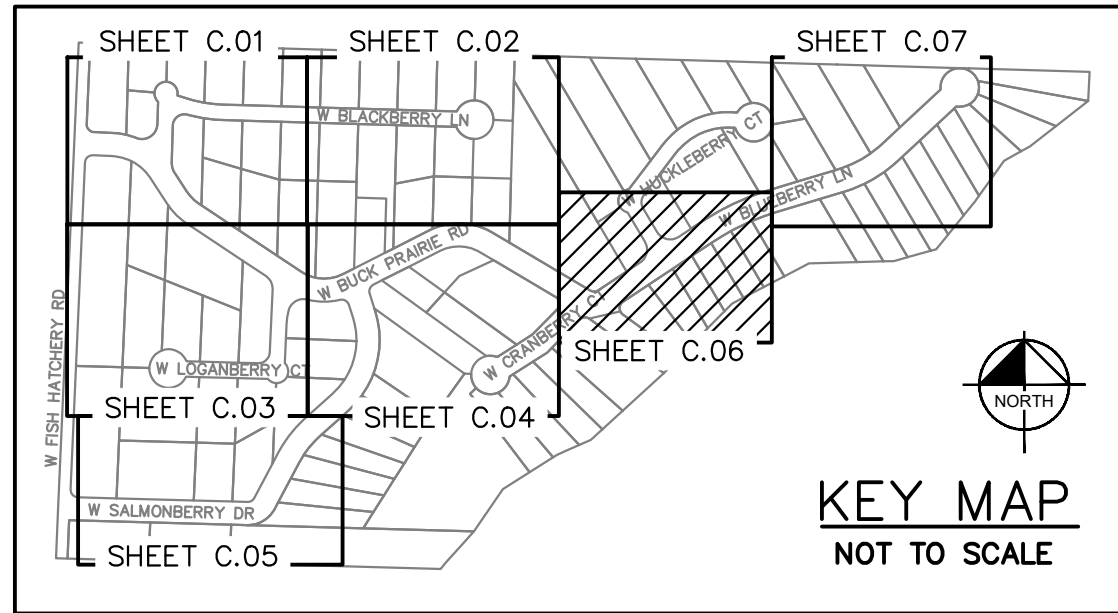
**MASON PUBLIC UTILITY
DISTRICT NO. 1
RIPPLEWOOD WATER
MAIN REPLACEMENT**

WATER MAIN PLANS -
W SALMONBERRY DR

8 OF 12



MATCHLINE SEE
SHEET C.07



WATER NOTES:

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- ⑧ EXISTING 3" PVC WATER MAIN TO BE CAPPED OR PLUGGED AND ABANDONED IN PLACE
- ⑨ EXISTING 4" PVC WATER MAIN TO BE CAPPED OR PLUGGED AND ABANDONED IN PLACE
- ⑩ ONCE SERVICE SWAPPED AND EXISTING MAIN HAS BEEN ABANDONED, PUD TO SALVAGE HARDWARE, CONTRACTOR TO RESTORE DISTURBED SURFACES
- ⑪ INSTALL 4" SDR11 HDPE ELECTROFUSION TEE, PER MANUFACTURER DIRECTION
- ⑫ INSTALL:
1-4" DUCTILE IRON GATE VALVE, FL, PER DETAIL 3/D.01
2-4" SDR11 HDPE BUTT FUSION FLANGE ADAPTERS AND BACKING RINGS
- ⑬ FULL DEPTH SAWCUT
- ⑭ INSTALL 1" SERVICE USING HOLE HAWG OR OTHER DIRECTIONAL DRILLING WHEN IN PAVED AREA
- ⑮ RESTORE ASPHALT PER DETAIL 5/D.01
- ⑯ RESTORE GRAVEL PER DETAIL 5/D.01
- ⑰ RESTORE ROADSIDE PER DETAIL 5/D.01
- ⑱ CULVERT CROSSING, CONTRACTOR TO INSTALL PROPOSED HDPE WATER MAIN ABOVE CULVERT AT A MINIMUM 1' VERTICAL SEPARATION AT CROSSING

TESC NOTES:

- 1 INITIAL SILT FENCE PER DTL ON SHEET G.03
- 2 INSTALL WATTLES PER DTL ON SHEET G.03
- 3 APPLY BMP C152 PER DOE MANUAL

NOTES:

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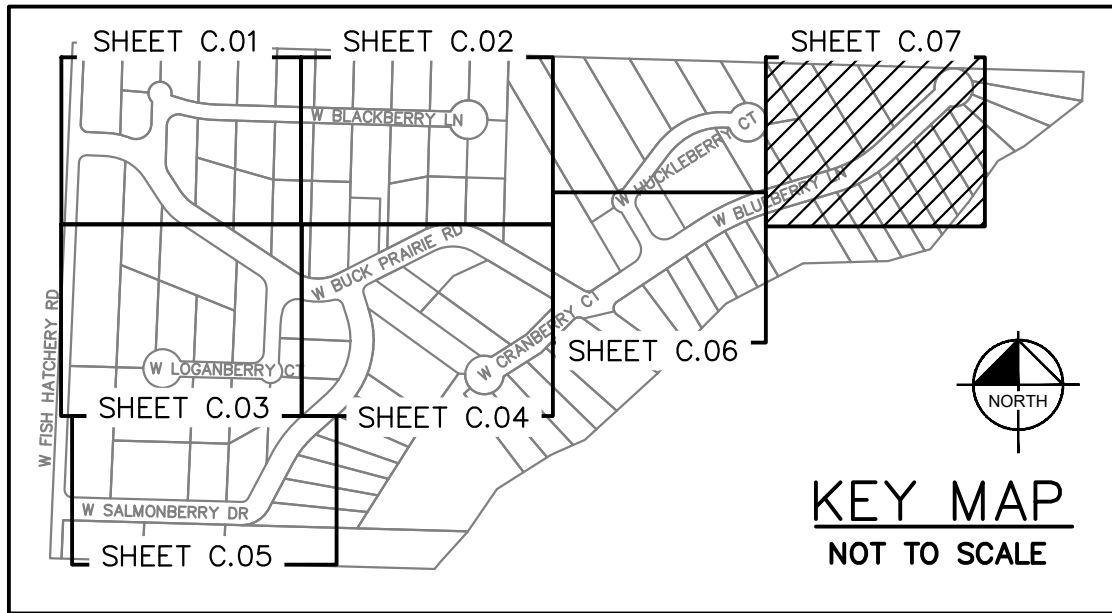
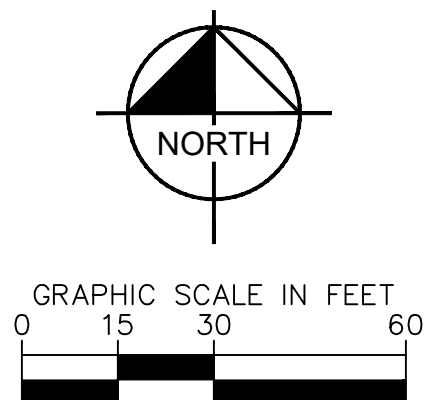
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| KHA PROJECT 090070001 | DATE 05/30/2023 | SCALE AS SHOWN | DESIGNED BY | GTC |
| | | | DRAWN BY | GTC |
| | | | CHECKED BY | DM |

MASON PUBLIC UTILITY
DISTRICT NO. 1
RIPPLEWOOD WATER
MAIN REPLACEMENT

WATER MAIN PLANS -
W BLUEBERRY LN &
W HUCKLEBERRY CT

C.06



WATER NOTES:

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- ⑩ INSTALL 1" SERVICE USING HOLE SAW OR OTHER DIRECTIONAL DRILLING WHEN IN PAVED AREA
- ⑪ RESTORE ASPHALT PER DETAIL 5/D.01
- ⑫ RESTORE GRAVEL PER DETAIL 5/D.01
- ⑬ RESTORE ROADSIDE PER DETAIL 5/D.01

TESC NOTES:

- 3 APPLY BMP C152 PER DOE MANUAL

NOTES:

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Kimley»Horn



DATE: 5/31/2023

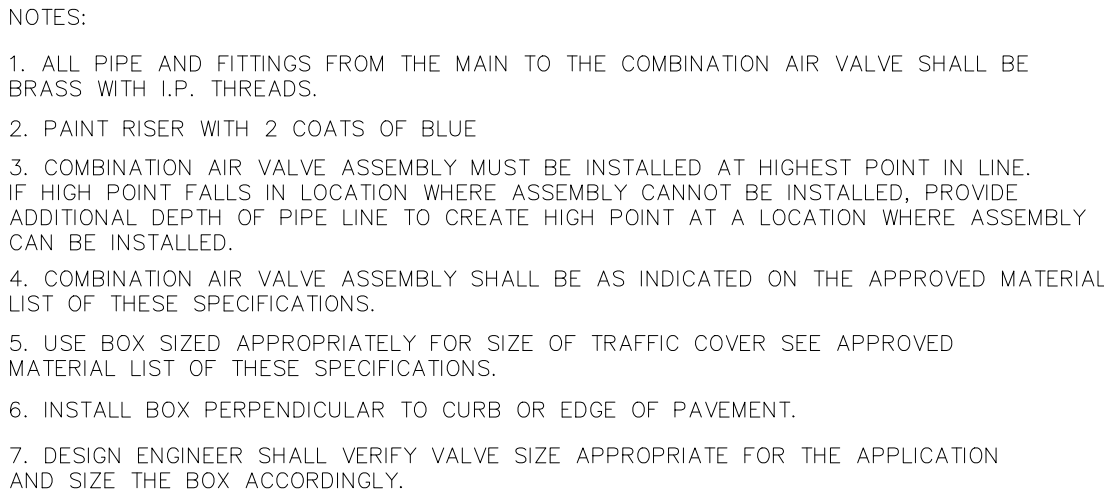
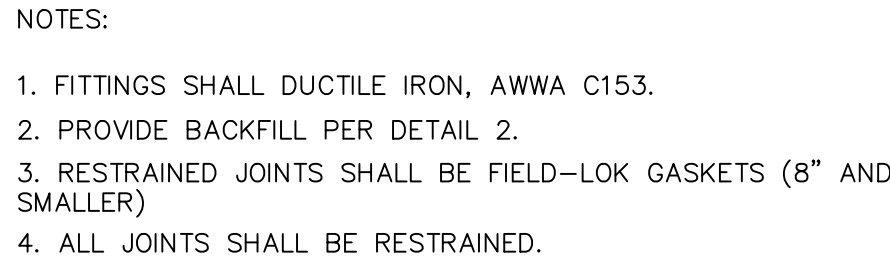
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| KHA PROJECT | DATE |
| 090070001 | 05/30/2023 |
| SCALE AS SHOWN | |
| DESIGNED BY | GTC |
| DRAWN BY | GTC |
| CHECKED BY | DM |

**MASON PUBLIC UTILITY
DISTRICT NO. 1
RIPPLEWOOD WATER
MAIN REPLACEMENT**

WATER MAIN PLANS -
W BLUEBERRY LN

C.07

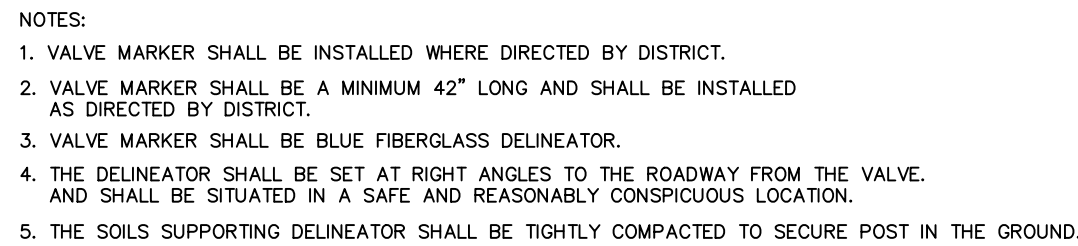
10 OF 12



1
D.01

END OF MAIN BLOWOFF ASSEMBLY
MODIFIED MPUD STANDARD DETAIL

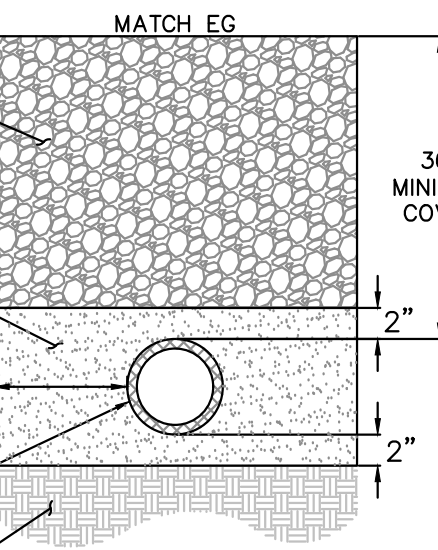
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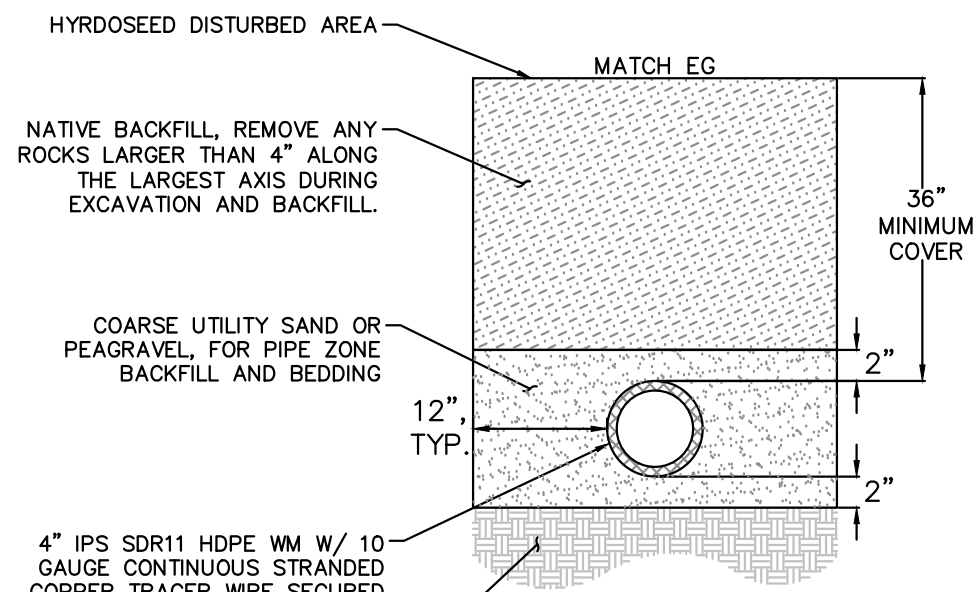
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VALVE MARKER
MPUD STANDARD DETAIL

SCALE: N.T.S.



SECTION B - GRAVEL
PRISM TRENCH



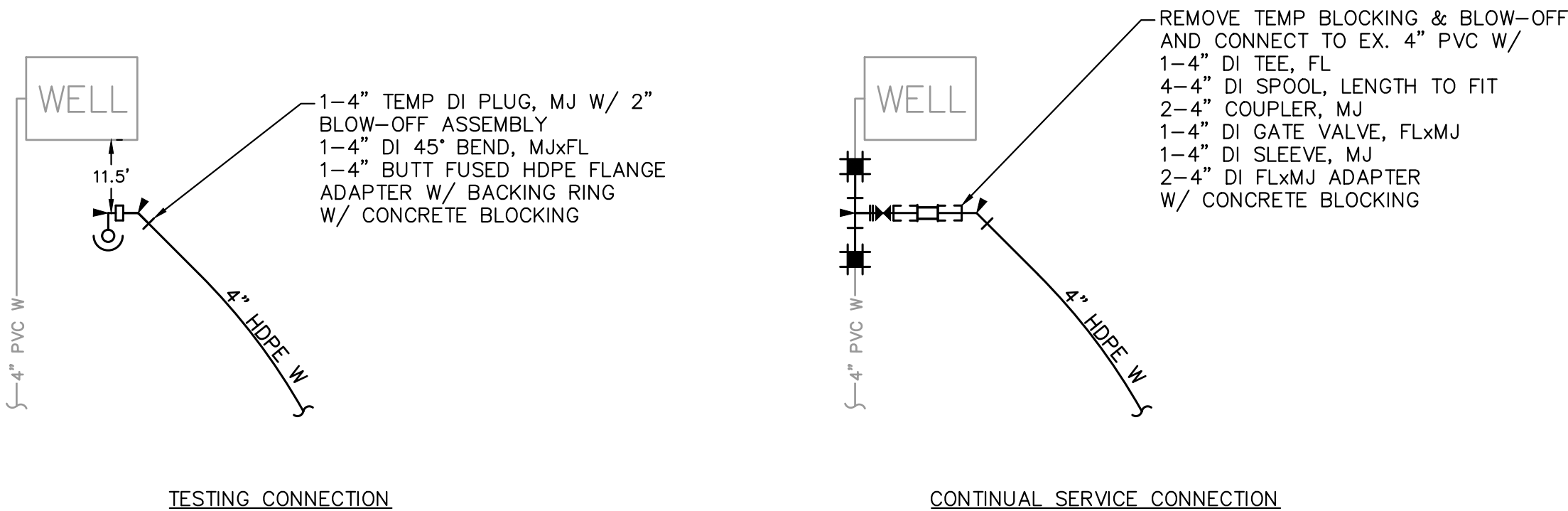
SECTION C – ROADSIDE TRENCH

5

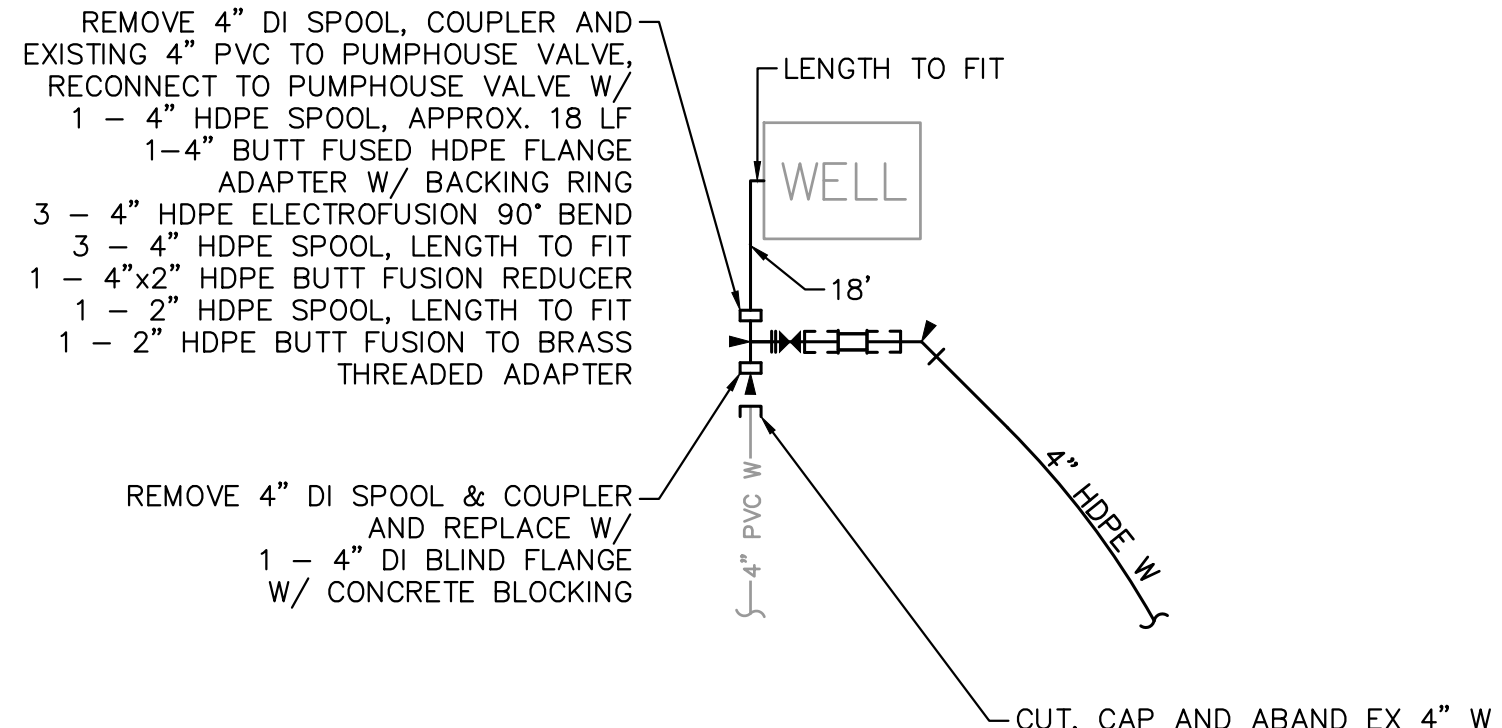
TRENCH SECTIONS
ROAD AND ROADSIDE SECTIONS

SCALE: N.T.S.

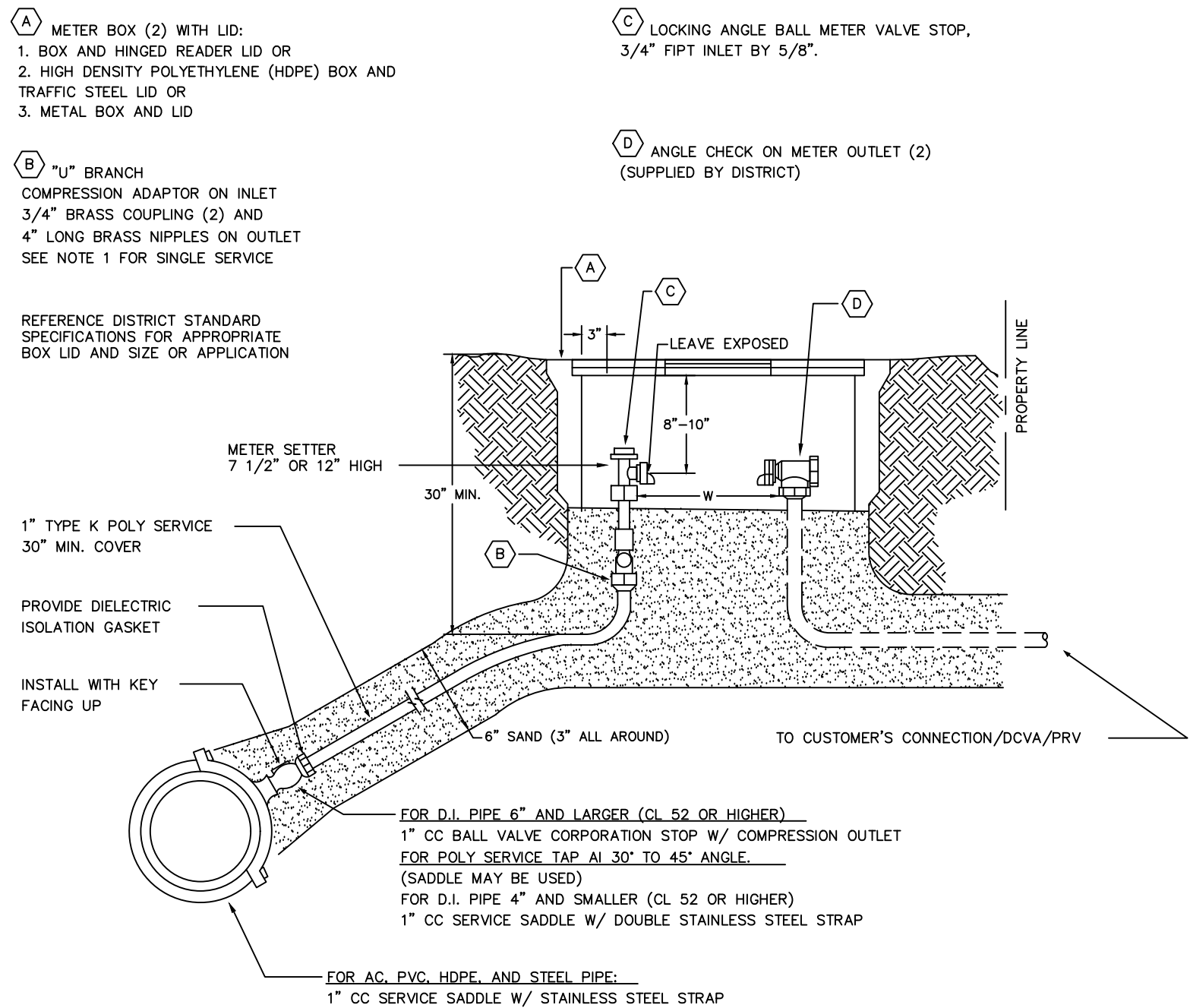
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6 TESTING AND CONTINUAL SERVICE DETAIL (PAID AS ONE CONNECTION)
D.02 SCALE: N.T.S.

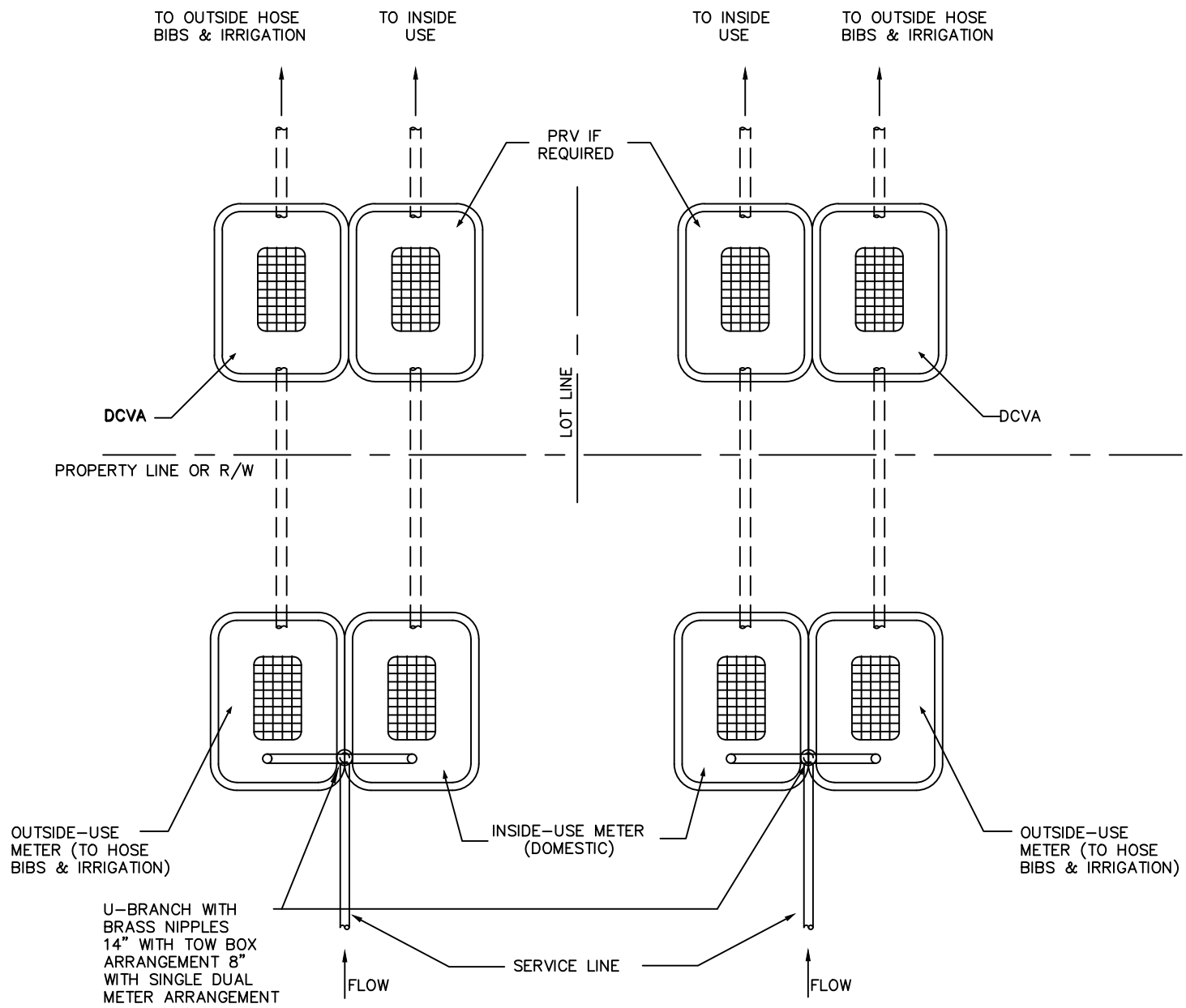


7 ABANDONMENT AND FINAL CONNECTION DETAIL (PAID AS SECOND CONNECTION)
D.02 SCALE: N.T.S.



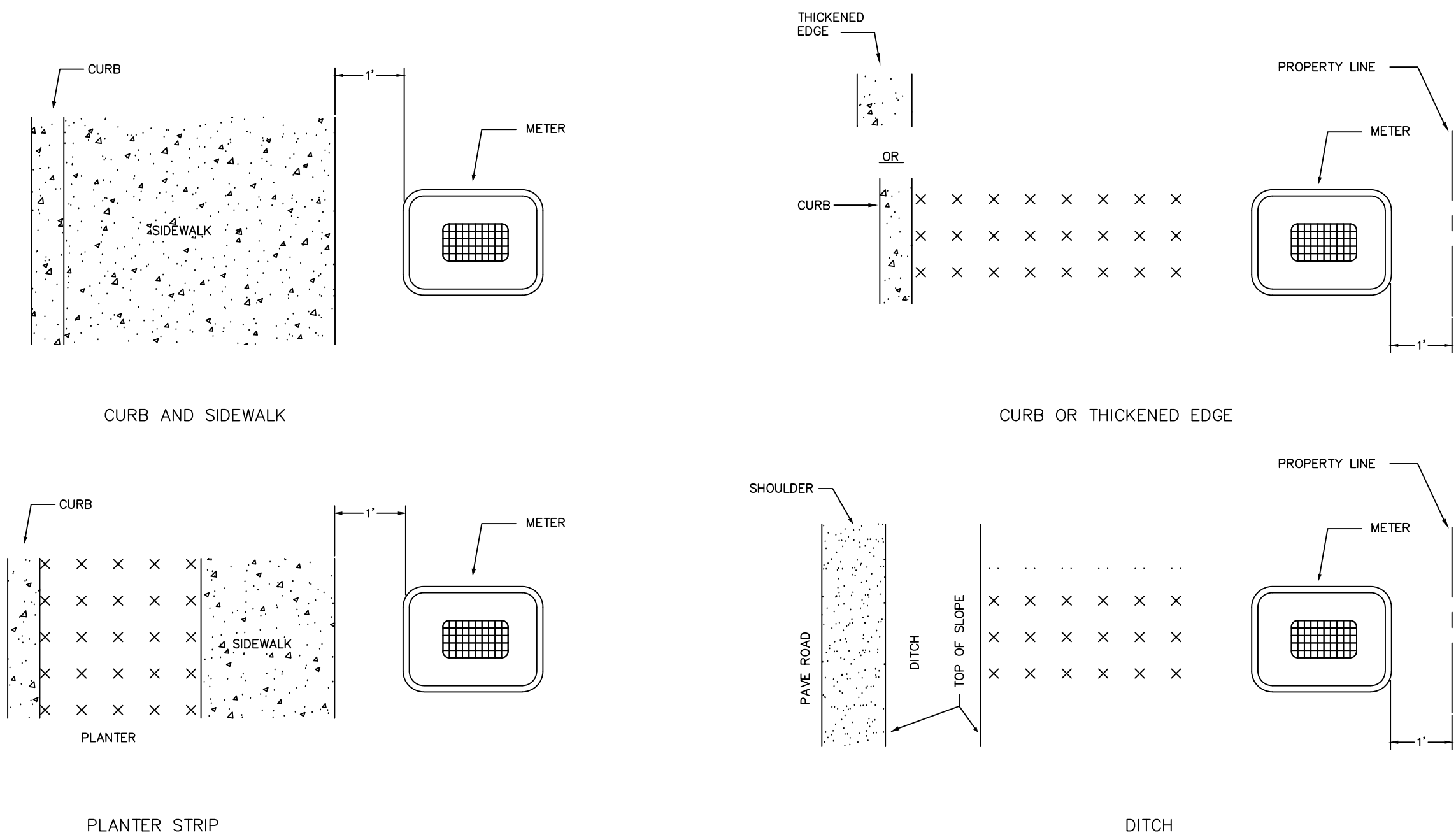
- NOTES:
1. THIS DETAIL IS FOR TYPICAL DUAL-METER SERVICES. FOR SINGLE SERVICE, CONNECT POLY DIRECTLY TO LOCKING ANGLE BALL VALVE STOP WITH 1" COMPRESSION INLET.
 2. CONTRACTOR/DEVELOPER SHALL MAKE APPLICATION FOR METER WITH DISTRICT. WATER METER TO BE PURCHASED FROM DISTRICT.
 3. METER BOX SHALL BE INSTALLED FLUSH WITH FINAL GRADE (TOP OF SIDEWALK, ASPHALT, SHOULDER, OR CURB) AND MUST BE SIZED TO ALLOW FOR MIN. CLEARANCE REQUIREMENTS.
 4. 1" SERVICE LINE SHALL NOT EXCEED 50' UNLESS APPROVED BY DISTRICT ENGINEER.
 5. USE METAL BOX LID IN VEHICULAR TRAVEL AREA OR WITHIN 1' FROM DRIVEWAY WITHOUT SIDEWALK. USE HDPE BOX WITH TRAFFIC STEEL LID AS DIRECTED BY DISTRICT ENGINEER.

8 STANDARD METERS
MPUD STANDARD DETAIL
D.02 SCALE: N.T.S.



- NOTES:
1. DUAL-METER SERVICE SHALL BE INSTALLED AS SHOWN ON THIS DETAIL WHERE DUAL-METER SERVICE IS REQUIRED.
 2. A PRESSURE REDUCING VALVE (PRV) SHALL BE INSTALLED ON INDOOR USE SERVICE WHERE PRESSURE EXCEEDS 80 PSI (AND OUTSIDE USE IF REQUIRED BY PLUMBING CODE)
 3. DOH-APPROVED DOUBLE CHECK VALVE ASSEMBLY (DCVA) IS REQUIRED FOR OUTDOOR USE (IRRIGATION AND HOUSE BIBS).

9 RESIDENTIAL METER LAYOUT
MPUD STANDARD DETAIL
D.02 SCALE: N.T.S.



AN EASEMENT IS REQUIRED TO PLACE WATER BOX OUTSIDE RIGHT-OF WAY

- NOTES:
1. METER BOX SHALL BE INSTALLED PERPENDICULAR TO THE SIDEWALK, EASEMENT, OR STREET; MATCHING GRADE AND SLOPE OF THE SIDEWALK, ASPHALT, SHOULDER, OR CURB TO AVOID STORM WATER GETTING INTO THE METER BOX.
 2. SIDEWALKS BEHIND PLANTER STRIP - 1' BEHIND EDGE OF SIDEWALK UNLESS APPROVED BY DISTRICT.
 3. CURB, ROLLED CURB OR THICKENED EDGE WITH NO SIDEWALK - 1' FROM PROPERTY LINE.
 4. SHOULDER - 1' FROM PROPERTY LINE.
 5. SPECIAL CIRCUMSTANCES - AS DIRECTED BY DISTRICT ENGINEER.
 6. METER BOX TO BE ADJACENT TO LOT LINE OR APPROVED BY DISTRICT FOR LARGE LOTS.
 7. SERVICE LINE SHALL BE PERPENDICULAR TO WATER MAIN STRAIGHT/LEVEL AS POSSIBLE AND LOCATED TO AVOID CONFLICTS WITH OTHER UTILITIES.
 8. METER BOX SHALL NOT BE LOCATED IN DRIVEWAY UNLESS APPROVED BY DISTRICT ENGINEER, AND LOCAL JURISDICTION. USE TRAFFIC RATED BOX AND LID IN VEHICULAR TRAVEL AREA OR WITH 1' FROM DRIVEWAY WITHOUT SIDEWALK.

10 METER BOX LOCATION
MPUD STANDARD DETAIL
D.02 SCALE: N.T.S.

| | | | | | |
|--|--|---|--|--|--|
| Kimley»Horn | | © May 23, 2023 KIMLEY-HORN AND ASSOCIATES, INC. | | 2828 COLBY AVENUE, SUITE 200, EVERETT, WA, 98201 | |
| DIANNA L. MARTIN STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER 42124 | | DATE: 5/31/2023 | | KHA PROJECT 090070001 | |
| MASON PUBLIC UTILITY DISTRICT NO. 1 RIPPLEWOOD WATER MAIN REPLACEMENT | | DATE 05/30/2023 | | SCALE AS SHOWN | |
| WATER DETAILS | | DESIGNED BY GTC | | DRAWN BY GTC | |
| D.02 | | CHECKED BY DM | | REVISIONS | |
| 12 OF 12 | | DATE | | BY | |