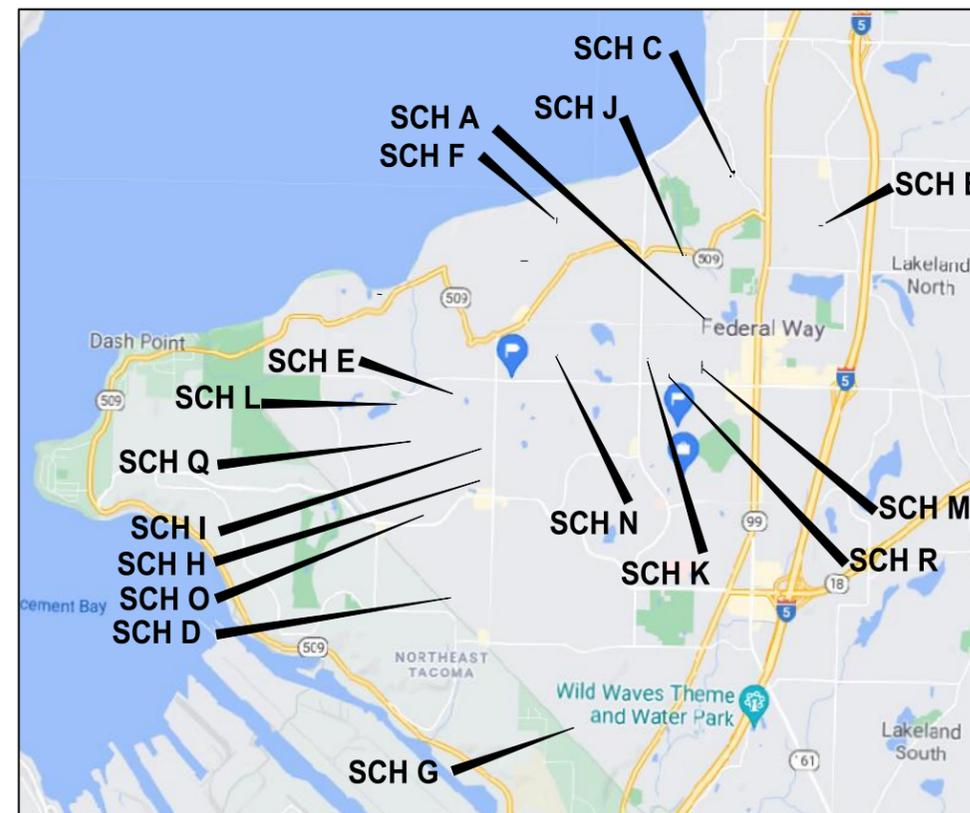


City of Federal Way Public Works Department 2022 STORM PIPE REPAIR

June 2022
RFB NUMBER 22-007



| DRAWING INDEX | | | |
|-----------------|---------|--|---------------------------------|
| SHT# | DWG | DESCRIPTION | LOCATION |
| 01 | COVER | COVER SHEET | -- |
| 02 | NOTES | GENERAL NOTES | -- |
| 03 | DETAILS | DETAILS | -- |
| 03 | A01 | SITE PLAN - SCH A PIPE #16582 | 31120 5TH WAY S |
| 04 | B01 | SITE PLAN - SCH B PIPE #4283 | 2403 S 298TH ST |
| 05 | C01 | SITE PLAN - SCH C PIPE #24855 | REDONDO WAY S NEAR 13TH AVE S |
| 06 | D01 | SITE PLAN - SCH D PIPE #9601 | 2648 SW 349TH PL |
| 07 | E01 | SITE PLAN - SCH E PIPE #3251 | 2707 SW 322ND ST |
| 08 | F01 | SITE PLAN - SCH F PIPE #11824 | 12TH AVE SW & MARINE VIEW DR SW |
| 09 | G01 | SITE PLAN - SCH G PIPE #16475 | 36432 10TH CT SW |
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| 12 | J01 | SITE PLAN - SCH J PIPE #9221 | S 302ND ST NEAR 5TH AVE S |
| 13 | K01 | SITE PLAN - SCH K PIPE #692 | 1ST PL S & S 316TH PL |
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| 16 | N01 | SITE PLAN - SCH N PIPE #16109 | SW 316TH PL & 11TH PL SW |
| 17 | O01 | SITE PLAN - SCH O PIPE #1192 | 3103 SW 339TH ST |
| 19 | P01 | SITE PLAN - SCH P PIPE #2307 | 33005 35TH AVE SW |
| 22 | Q01 | SITE PLAN - SCH Q PIPE #8132 | 4TH AVE S & S 318TH PL |
| TRAFFIC CONTROL | | | |
| -- | TC-1 | TRAFFIC CONTROL PLAN 1 | -- |
| -- | TC-2 | TRAFFIC CONTROL PLAN 2 | -- |
| -- | TC-3 | TRAFFIC CONTROL PLAN 3 | -- |



APPROVED FOR CONSTRUCTION

 DESIREE S. WINKLER P.E.
 DEPUTY PUBLIC WORKS DIRECTOR
 5-11-22
 DATE

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 REVIEWED: D. WINKLER
 APPROVED: D. WINKLER



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2022 STORM PIPE REPAIR
COVER SHEET

CITY PROJECT #:
34288
 SHEET
COVER
 01 OF 22

\\cwfiler1\department\pww\engineering\division\project\active\34288 - 2022 storm repair phase 4\03 pelacard\288 - 2021 Sch A-E Plus.dwg, 5/6/2022

ESC NOTES

- ESC MEASURES MUST BE INSTALLED AND PROPERLY FUNCTIONING PRIOR TO OR IN CONJUNCTION WITH ALL EXCAVATION SO AS TO ENSURE THAT TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.
- ESC MEASURES SHOWN ON THIS PLAN, IF ANY, ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING CONSTRUCTION, THESE ESC MEASURES SHALL BE UPGRADED AS NEEDED AT NO ADDITIONAL COST TO THE CITY FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CONTRACTOR'S MEANS AND METHODS OF CONSTRUCTION.
- ESC FACILITIES SHALL BE INSPECTED DAILY BY CONTRACTOR'S ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING.
- ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO CONSECUTIVE DAYS DURING WET SEASON OR SEVEN DAYS DURING DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH APPROVED ESC METHODS.
- ANY AREA NEEDING ESC MEASURES THAT DO NOT REQUIRE IMMEDIATE ATTENTION SHALL BE ADDRESSED WITHIN SEVEN (7) DAYS.
- AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCHBASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO DOWNSTREAM SYSTEM.
- PRIOR TO BEGINNING OF WET SEASON (OCT. 1), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARATION FOR WINTER RAINS. DISTURBED AREAS SHALL BE SEEDED WITHIN ONE WEEK OF BEGINNING OF WET SEASON. A SKETCH MAP OF THOSE AREAS TO BE SEEDED AND THOSE AREAS TO REMAIN UNCOVERED SHALL BE SUBMITTED TO ENGINEER.
- INSTALL INLET PROTECTION PER WSDOT STANDARD PLAN I-40.20-00 ON ALL STORM DRAIN INLETS NEAR CONSTRUCTION SITE THAT MAY CATCH RUNOFF FROM CONSTRUCTION SITE.
- PLUG STORM DRAIN PIPE DOWNSTREAM OF CONSTRUCTION SITE. DIRECT SURFACE RUNOFF AWAY FROM CONSTRUCTION SITE.
- SCHEDULE C HAVE OUTFALLS IN CLOSE PROXIMITY TO REPAIR.
- UPSTREAM STRUCTURE WILL BE PLUGGED AND HAVE DEWATERING SYTEMS ON SITE AT ALL TIMES THAT IS CAPABLE OF DIVERTING STORMWATER AROUND CONSTRUCTION ZONE.
- ONCE REPAIR HAS BEEN MADE, THE DOWNSTREAM STRUCTURE SHALL BE PLUGGED AND THE PIPE SHALL BE CLEARED OF ANY DEBRIS AND SEDIMENT THAT ACCUMULATED DURING CONSTRUCTION.

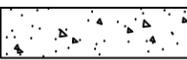
ABBREVIATIONS

| | |
|--------|-------------------------------|
| ACP | ASPHALT CONCRETE PAVEMENT |
| AC | ASBESTOS CONCRETE |
| CB | CATCH BASIN |
| COFW | CITY OF FEDERAL WAY |
| CONC | CONCRETE |
| CMP | CORRUGATED METAL PIPE |
| CP | CONCRETE PIPE |
| CSTC | CRUSHED SURFACE TOP COURSE |
| DIA | DIAMETER |
| ESC | EROSION SEDIMENTATION CONTROL |
| EXIST. | EXISTING |
| G | UNDERGROUND GAS |
| HDPE | HIGH DENSITY POLY ETHYLENE |
| HMA | HOT MIX ASPHALT |
| NTS | NOT TO SCALE |
| OH | OVERHEAD LINE |
| PWR | UNDERGROUND POWER |
| SD | STORM DRAIN |
| SS | SANITARY SEWER |
| TEL | UNDERGROUND TELEPHONE |
| W | WATER |

GENERAL NOTES

- UNLESS OTHERWISE NOTED ON THE PLAN, CONTRACTOR SHALL REBUILD, REPAIR, RESTORE, AND MAKE GOOD ALL DAMAGES AND DISTURBANCES TO ANY AND ALL IMPROVEMENTS THAT EXIST PRIOR TO THE CONSTRUCTION TO THEIR ORIGINAL CONDITIONS. THE EXTENT OF SURFACE DISTURBANCE MAY VARY DEPENDING ON CONTACTOR'S CHOSEN CONSTRUCTION METHOD. BIDDERS ARE ENCOURAGED TO INSPECT THE SITE CONDITIONS BEFORE SUBMITTING BIDS.
- SEEDING IS NOT AN ALLOWED METHOD FOR RESTORING DISTURBED LAWN. CONTRACTOR SHALL EITHER INSTALL NEW SOD, OR REMOVE, PRESERVE AND REUSE EXISTING SOD TO RESTORE DISTURBED LAWN. ENGINEER'S REVIEW AND APPROVAL OF THE CONDITIONS OF PRESERVED SOD IS REQUIRED PRIOR TO REUSING EXISTING SOD. IF PRESERVED SOD IS NOT APPROVED, NEW SOD SHALL BE USED.
- TRENCH OPEN AREA MUST BE COVERED WITH COLD MIX ASPHALT TEMPORARY PAVEMENT NO LATER THAN NEXT CALENDAR DAY AFTER TRENCH BACKFILL IS COMPLETE AND BEFORE OPEN TO TRAFFIC, WHICHEVER COMES FIRST. COLD MIX SHALL BE PLACED IN A 2-INCH MINIMUM THICKNESS. MAINTAIN AND/OR REPLACE COLD MIX AS NECESSARY AT ENGINEER'S DISCRETION.
- BACKFILL COMPACTION AND PLACEMENT WILL BE PERFORMED IN COMPLIANCE WITH WSDOT STANDARD SPECIFICATIONS. ALL PERPENDICULAR CROSSINGS OF THE ROADWAY WILL BE BACKFILLED 100% WITH CSBC. THE ASPHALT SECTION SHALL BE RESTORED WITH A MINIMUM OF THREE (3") INCHES OF ASPHALT, HMA 1/2", OR BE REPLACED TO THE ORIGINAL CONDITION IF THICKER, AT THE CITY'S SOLE DISCRETION. PER COFW STANDARD 3-28.
- AERIAL PHOTOGRAPHS WERE TAKEN IN 2015. CURRENT CONDITIONS MAY DIFFER. PROPERTY AND RIGHT-OF-WAY LINES ARE APPROXIMATE AND ARE SHOWN FOR REFERENCE ONLY.
- CONTRACTOR SHALL INVESTIGATE PROJECT SITE AND BID THE PROJECT BASED ON CURRENT SITE CONDITIONS.
- PIPE LOCATION, LENGTH, DEPTH AND DIAMETER ARE APPROXIMATE ESTIMATE ONLY. CONTRACTOR SHALL FIELD VERIFY THE INFORMATION PRIOR TO WORK.
- PIPE MATERIAL TYPE CHANGE COULD OCCUR WITHIN SOME PIPES AS A RESULT OF REPLACING FAILED PIPE SEGMENTS IN THE PAST. CONTRACTOR TO VERIFY.
- GROUNDWATER BASE FLOW WILL LIKELY EXIST IN SOME PIPES DURING CONSTRUCTION. CONTRACTOR SHALL TAKE NECESSARY MEASURES TO BYPASS BASE FLOW PRIOR TO WORK.
- DEWATERING SYSTEMS, PROVIDED BY THE CONTRACTOR SHALL BE ONSITE AND AVAILABLE.
- ACCESS TO SOME PIPES CAN BE DIFFICULT. CONTRACTOR SHALL BID THE PROJECT AFTER CAREFULLY EXAMINING THE EXISTING CONDITIONS.
- NOT ALL EXISTING UTILITIES ARE SHOWN ON PLAN. CONTRACTOR SHALL INSPECT SITE AND CONTACT UTILITY OWNERS/OPERATORS TO DETERMINE UTILITY LOCATIONS WHERE NECESSARY.
- THE CONTRACTOR SHALL CLEAN AND CAMERA THE REPAIRED PIPE TO ENSURE REPAIR WAS COMPLETED CORRECTLY AND THERE IS NOT DEBRIS OR SEDIMENT PRESENT.
- UPSTREAM STRUCTURE WILL BE PLUGGED AND HAVE DEWATERING SYTEMS ON SITE AT ALL TIMES THAT IS CAPABLE OF DIVERTING STORMWATER AROUND CONSTRUCTION ZONE.
- ONCE REPAIR HAS BEEN MADE, THE DOWNSTREAM STRUCTURE SHALL BE PLUGGED AND THE PIPE SHALL BE CLEARED OF ANY DEBRIS AND SEDIMENT THAT ACCUMULATED DURING CONSTRUCTION.
- CONTRACTOR SHALL CONFIRM INSTALLED LENGTH OF PIPE WITH CITY OF FEDERAL WAY INSPECTOR ONSITE PRIOR TO FINAL BACKFILL OF TRENCH. CONTRACTOR SHALL ENSURE MAIL AND REFUSE SERVICE IS NOT INTERRUPTED DURING CONSTRUCTION AND SHALL COORDINATE WITH SERVICE PROVIDER ON DELIVERY/PICKUP TIME
- IF CONTRACTOR IS UNABLE TO COMPLETE THE PERMANENT PIPE REPAIR WITHIN THE ALLOWABLE WORKING HOURS AND WEATHER IS EXPECTED, THE CONTRACTOR SHALL INSTALL TEMPORARY PIPE AND PIPE CONNECTIONS IN ALL OPEN EXCAVATION INCLUDING DITCHES, TRENCHES, SWALES, HOLES PER THE CITIES DIRECTION.

LEGEND

| | | | | | |
|---|----------------------------|---|----------------------------|---|-------------------|
|  | STORM PIPE TO BE REPAIRED |  | SANITARY SEWER PIPE |  | CONCRETE |
|  | OVERHEAD LINES |  | WATER MAIN |  | ASPHALT |
|  | STORM PIPE |  | ROW/PL LINES |  | CLEAR AND GRUB |
|  | GAS MAIN |  | SANITARY MANHOLE |  | EASEMENT |
|  | BURIED ELECTRICAL |  | EXISTING STORM CATCH BASIN |  | OUTLET PROTECTION |
|  | BURIED COMMUNICATION CABLE |  | CB INLET PROTECTION | | |
|  | FLOW DIRECTION | | | | |
|  | OUT FALL | | | | |

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 REVIEWED: D. WINKLER
 APPROVED: D. WINKLER

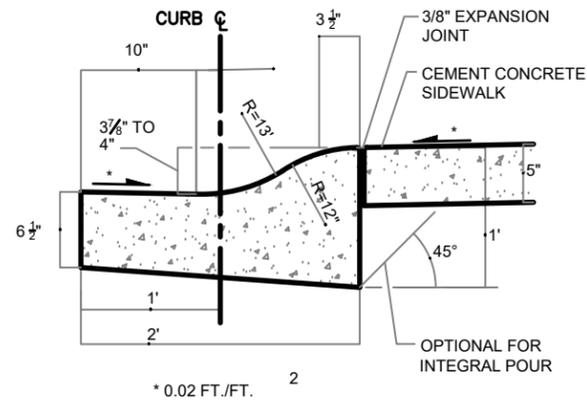


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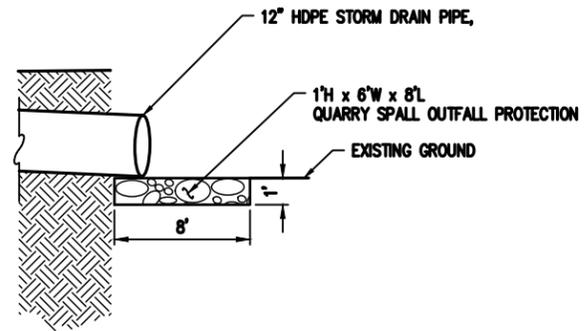
**2022 STORM PIPE REPAIR
 GENERAL NOTES AND LEGEND**

CITY PROJECT #:
34288
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CEMENT CONCRETE ROLLED CURB AND GUTTER

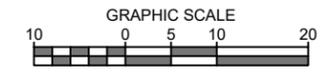
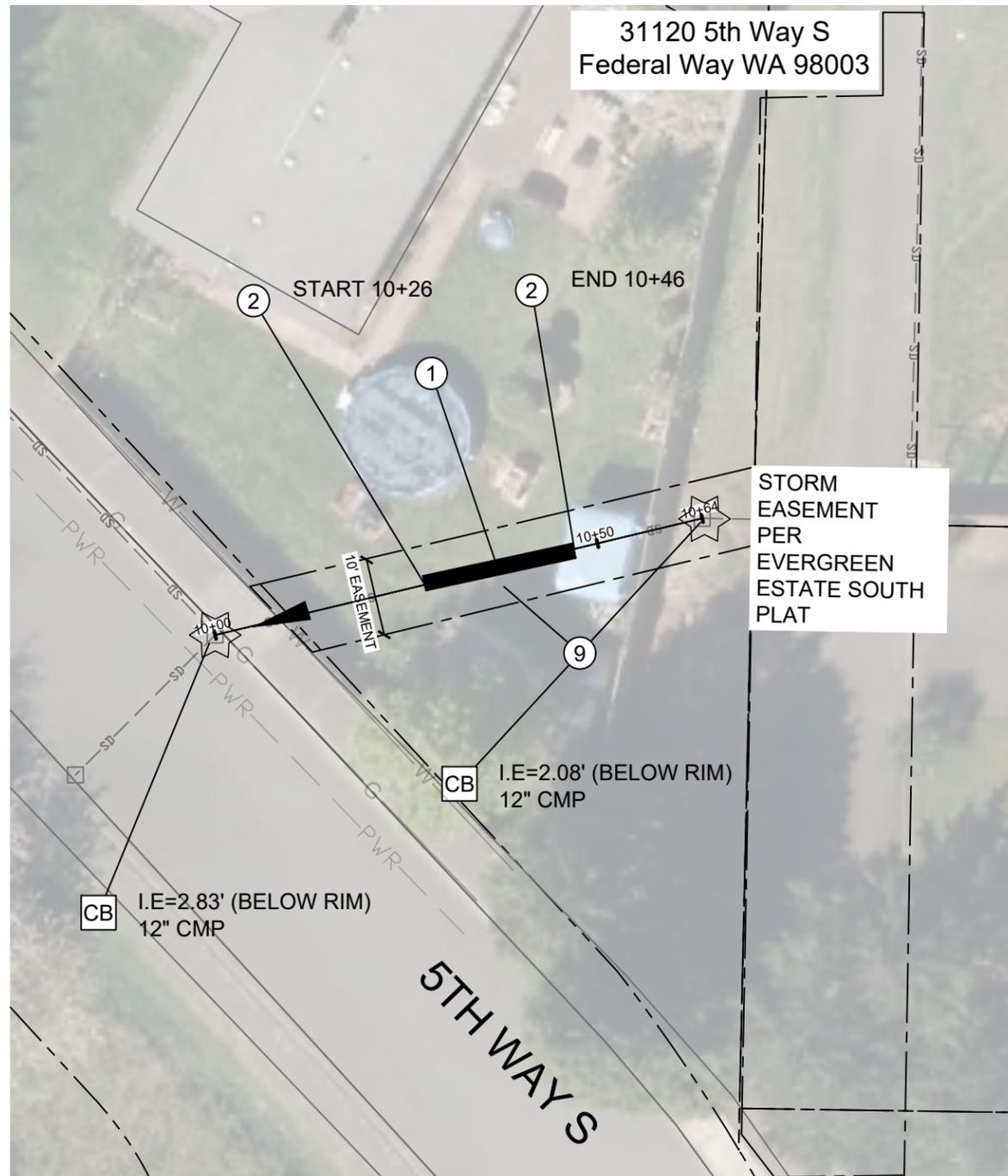


OUTFALL DETAIL

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31120 5th Way S
Federal Way WA 98003



CONSTRUCTION NOTES

- ① REMOVE EXISTING DAMAGED 12 IN. CMP STORM PIPE AND REPLACE WITH HDPE PIPE 12 IN. DIA
- ② DISSIMILAR PIPE CONNECTION PER WSDOT STANDARD PLAN B-60.20-02
- ⑨ SOD LAWN

GENERAL NOTES

- * TRENCH BACKFILL SHALL BE CSTC
- * BYPASS AND PUMPING PLAN REQUIRED ON ALL SCHEDULES.



*** ALL UTILITIES ARE APPROXIMATE. CONTRACTOR RESPONSIBLE FOR LOCATING.***

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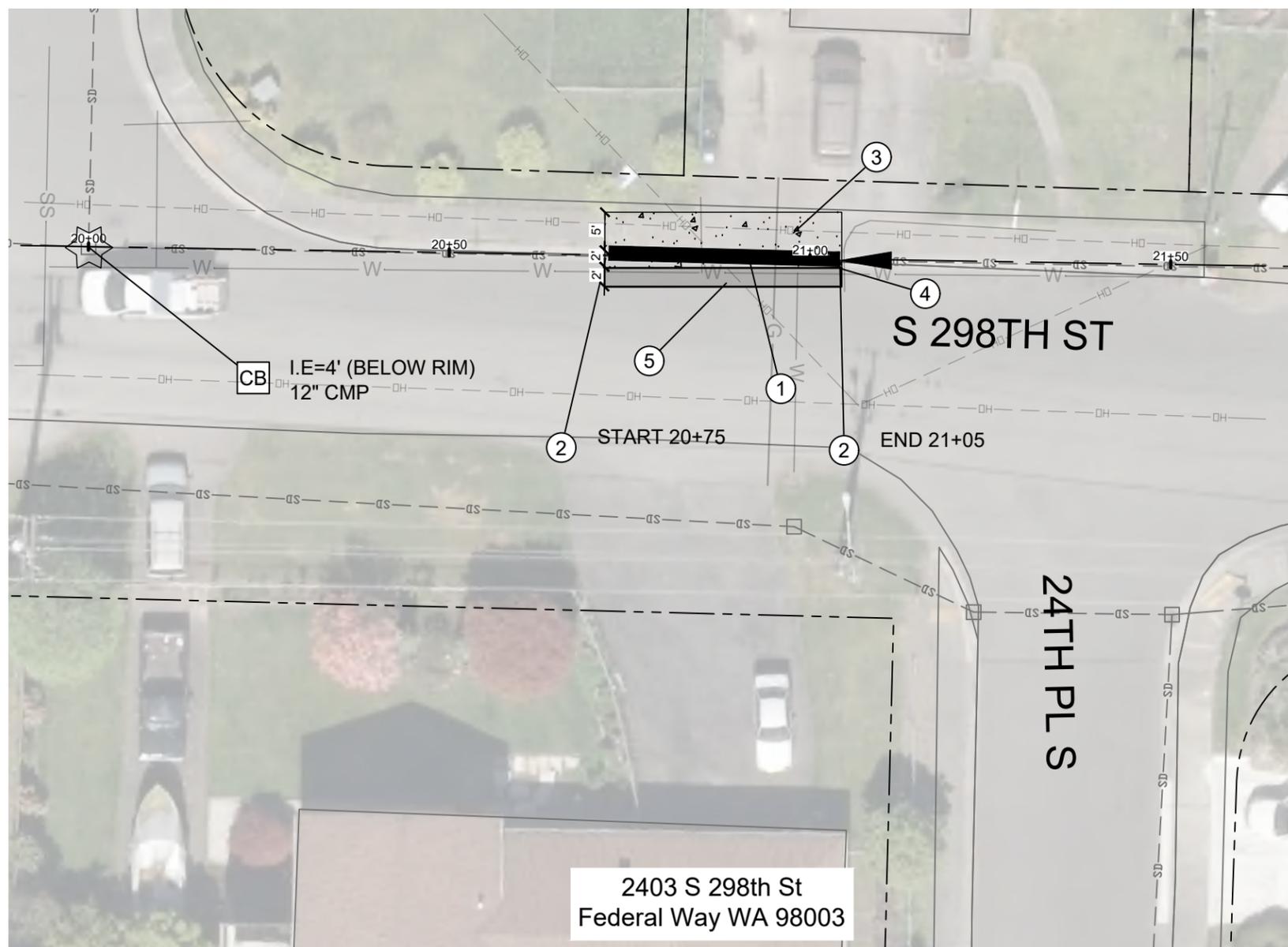
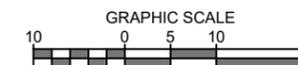


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2022 STORM PIPE REPAIR
SITE PLAN - SCH A PIPE #16582
31120 5TH WAY S

CITY PROJECT #:
34288
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A01
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CONSTRUCTION NOTES

- ① REMOVE EXISTING DAMAGED 12 IN. CMP STORM PIPE AND REPLACE WITH HDPE PIPE 12 IN. DIA
- ② DISSIMILAR PIPE CONNECTION PER WSDOT STANDARD PLAN B-60.20-02
- ③ CEMENT CONC. SIDEWALK PER COFW DETAIL 3-03 AND 3-12.
- ④ CEMENT CONCRETE ROLLED CURB AND GUTTER PER DETAIL SHEET 03
- ⑤ HMA CL. 1/2 PG 58H-22, PER COFW DWG. NO. 3-28

GENERAL NOTES

- * JOINT TO JOINT REPLACEMENT ON CURB GUTTER AND SIDEWALK IS REQUIRED.
- * TRENCH BACKFILL SHALL BE CSTC.

*** ALL UTILITIES ARE APPROXIMATE. CONTRACTOR RESPONSIBLE FOR LOCATING.***

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 APPROVED: D. WINKLER



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2022 STORM PIPE REPAIR
SITE PLAN - SCH B PIPE #4283
2403 S 298TH ST

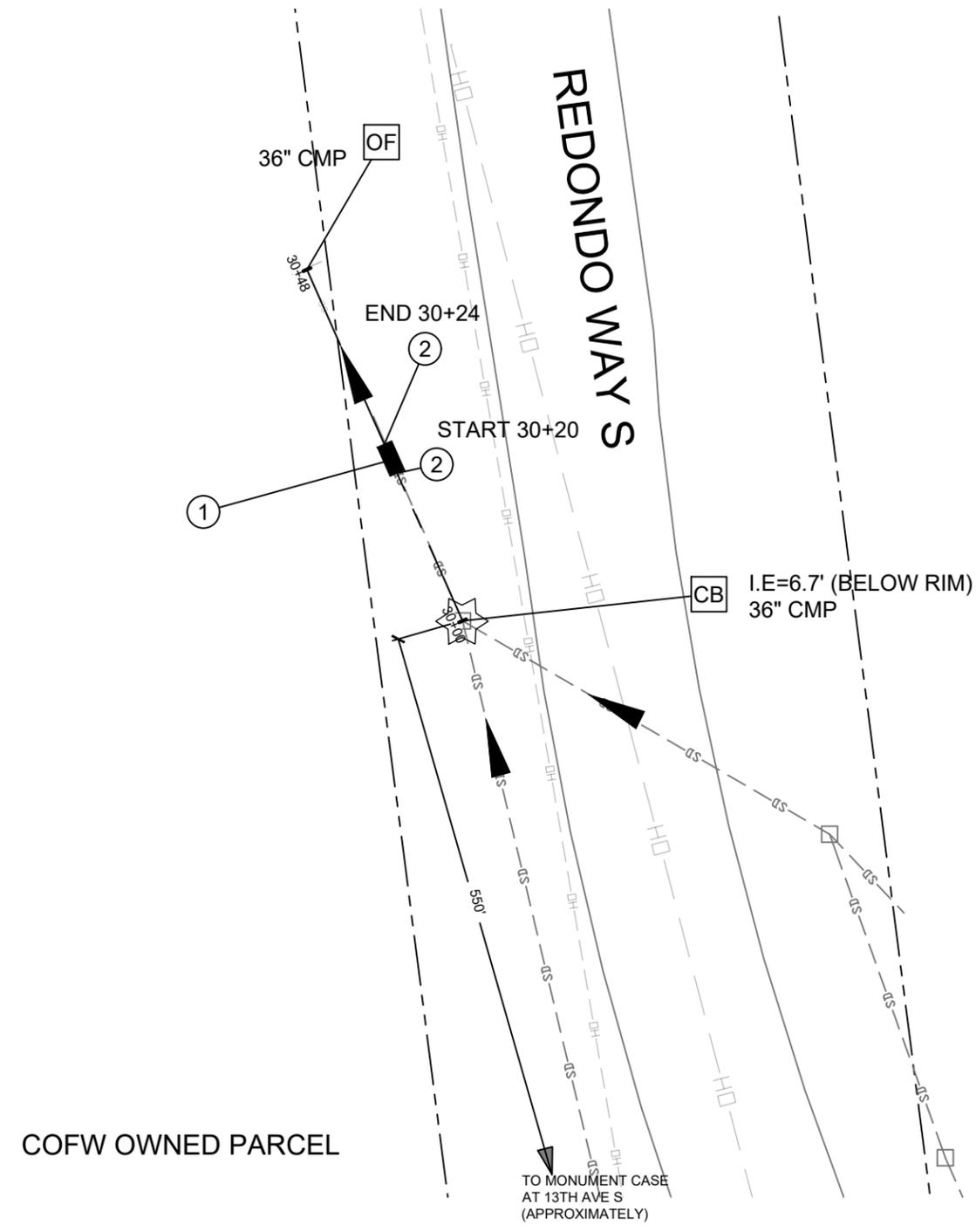
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S
003

28940 12th Ave S
Federal Way WA 98003



COFW OWNED PARCEL

- CONSTRUCTION NOTES**
- ① REMOVE EXISTING DAMAGED 36 IN. CMP STORM PIPE AND REPLACE WITH HDPE PIPE 36 IN. DIA
 - ② DISSIMILAR PIPE CONNECTION PER WSDOT STANDARD PLAN B-60.20-02

- GENERAL NOTES**
- * TRENCH BACKFILL SHALL BE CSTC.
 - * ALL WORK IS IN SOFT SURFACE SHOULDER.
 - * UPSTREAM STRUCTURE AT STA 30+00 IS VERY OLD BRICK STACKED. DAMAGE TO STRUCTURE WILL BE AT CONTRACTORS EXPENSE.

*** ALL UTILITIES ARE APPROXIMATE. CONTRACTOR RESPONSIBLE FOR LOCATING.***

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2022 STORM PIPE REPAIR
SITE PLAN - SCH C PIPE #24855
REDONDO WAY S NEAR 13TH AVE S

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| CITY PROJECT #: 34288 |
| SHEET C01 |
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34811 27th Ave SW
Federal Way WA 98023

2702 SW 349th Pl
Federal Way WA 98023

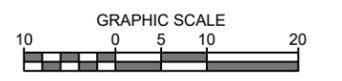
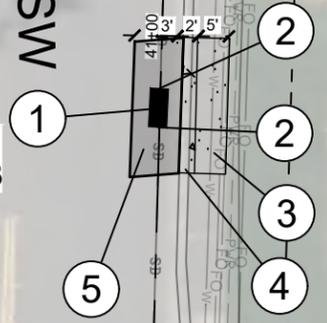
27TH AVE SW

END 40+94
START 40+90

I.E=4.16' (BELOW RIM)
15" CMP

SW 349TH PL

CB



CONSTRUCTION NOTES

- ① REMOVE EXISTING DAMAGED 12 IN. CMP STORM PIPE AND REPLACE WITH HDPE PIPE 12 IN. DIA
- ② DISSIMILAR PIPE CONNECTION PER WSDOT STANDARD PLAN B-60.20-02
- ③ CEMENT CONC. SIDEWALK PER COFW DETAIL 3-03 AND 3-12.
- ④ CEMENT CONCRETE ROLLED CURB AND GUTTER PER DETAIL SHEET 03
- ⑤ HMA CL. ½" PG 58H-22, PER COFW DWG. NO. 3-28

GENERAL NOTES

- * JOINT TO JOINT REPLACEMENT ON CURB GUTTER AND SIDEWALK IS REQUIRED.
- * TRENCH BACKFILL SHALL BE CSTC.

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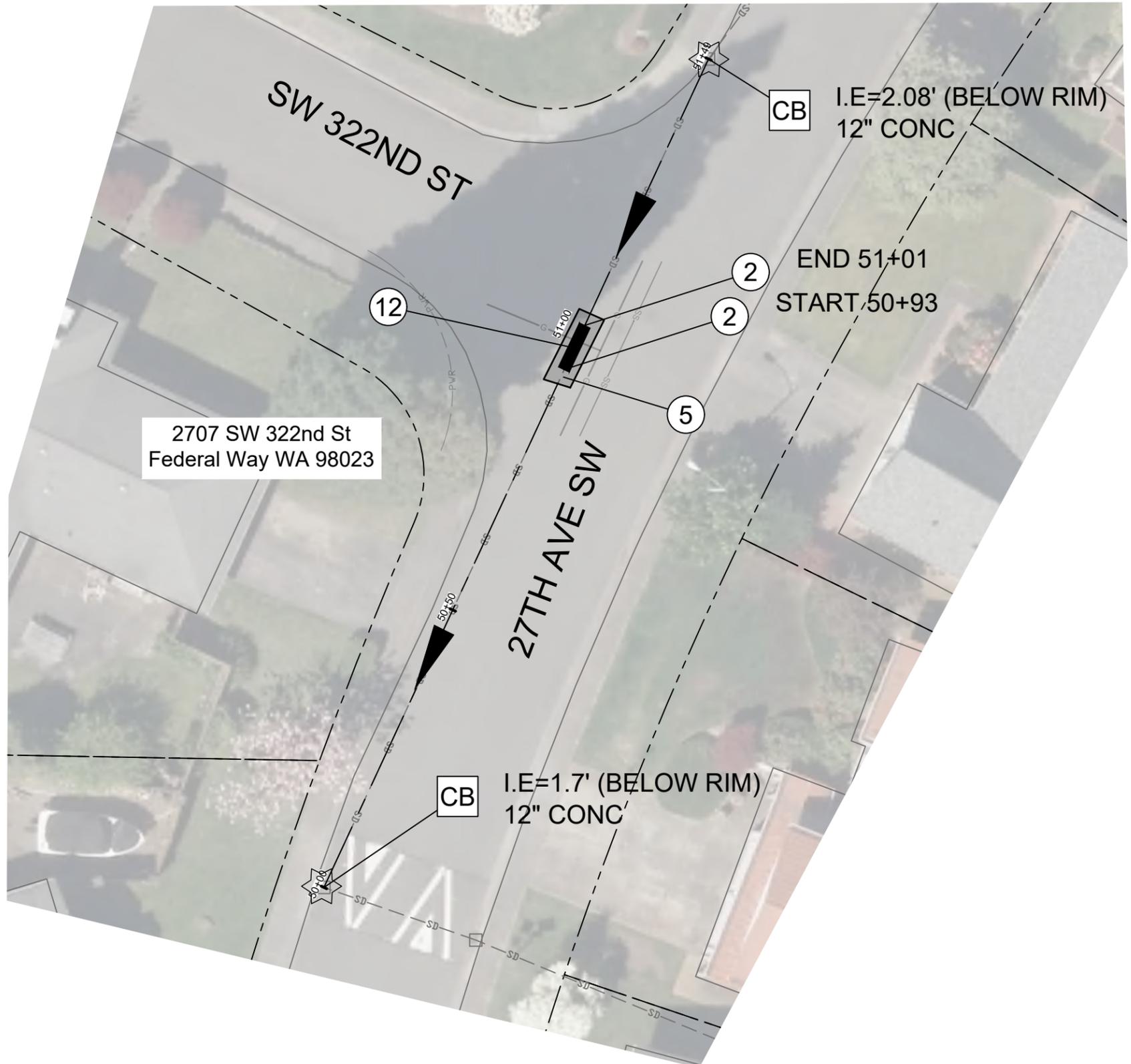


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2022 STORM PIPE REPAIR
SITE PLAN - SCH D PIPE #9601
2648 SW 349TH PL

CITY PROJECT #:
34288
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06 OF 22

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2707 SW 322nd St
Federal Way WA 98023



CONSTRUCTION NOTES

- ② DISSIMILAR PIPE CONNECTION PER WSDOT STANDARD PLAN B-60.20-02
- ⑤ HMA CL. 1/2" PG 58H-22, PER COFW DWG. NO. 3-28
- ⑫ REMOVE EXISTING DAMAGED 12 IN. CONC. STORM PIPE AND REPLACE WITH DUCTILE IRON STORM SEWER PIPE 12 IN DIAM.

GENERAL NOTES

- JOINT TO JOINT REPLACEMENT ON CURB GUTTER IS REQUIRED.
- TRENCH BACKFILL SHALL BE CSTC.

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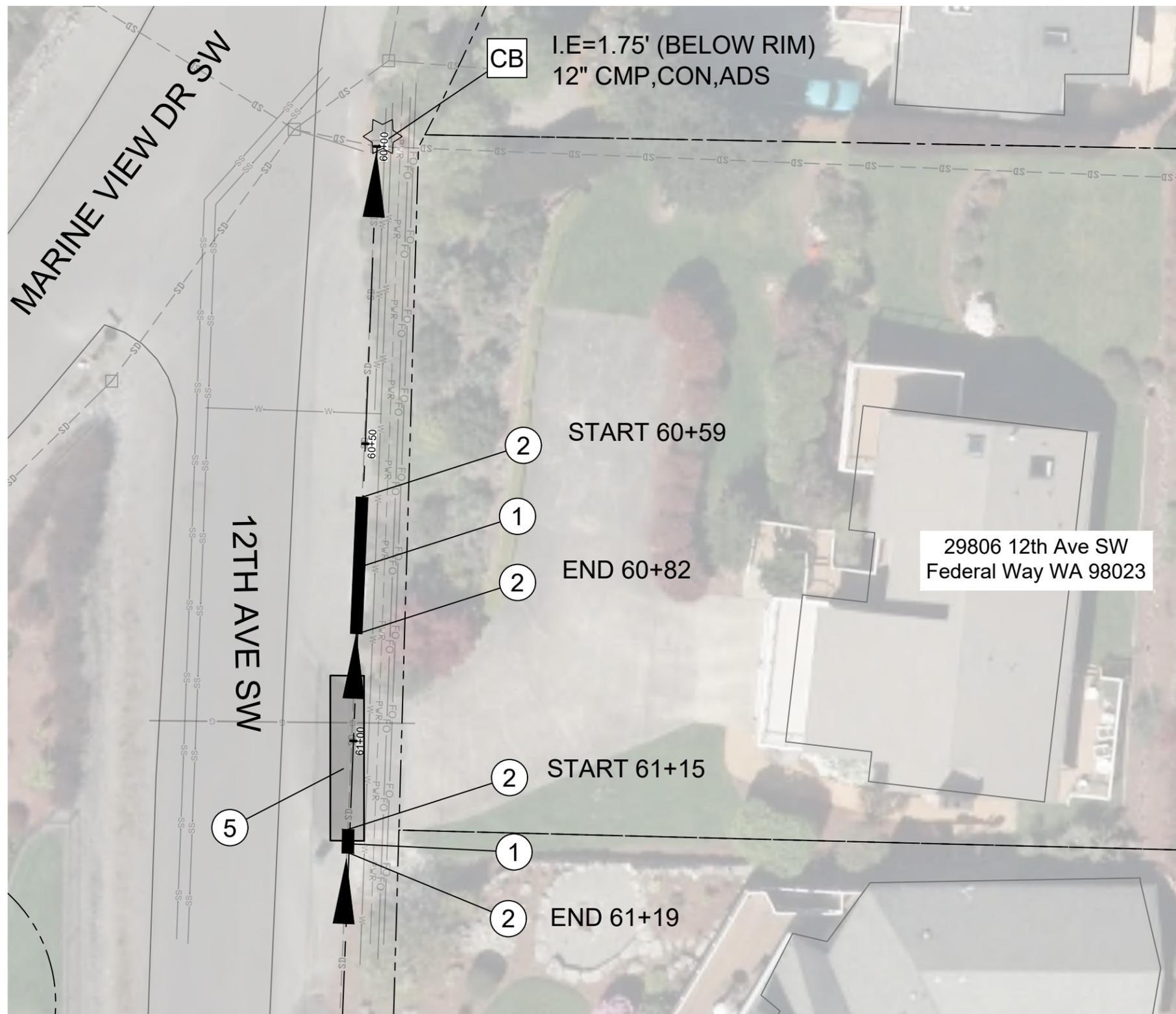


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2022 STORM PIPE REPAIR
SITE PLAN - SCH E PIPE #3251
2707 SW 322ND ST

CITY PROJECT #:
34288
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CONSTRUCTION NOTES

- ① REMOVE EXISTING DAMAGED 12 IN. CONCRETE STORM PIPE AND REPLACE WITH HDPE PIPE 12 IN. DIA
- ② DISSIMILAR PIPE CONNECTION PER WSDOT STANDARD PLAN B-60.20-02
- ⑤ HMA CL. ½" PG 58H-22, PER COFW DWG. NO. 3-28
- ⑨ SHOULDER RESTORATION

GENERAL NOTES

- * JOINT TO JOINT REPLACEMENT ON SIDEWALK IS REQUIRED.
- * TRENCH BACKFILL SHALL BE CSTC.

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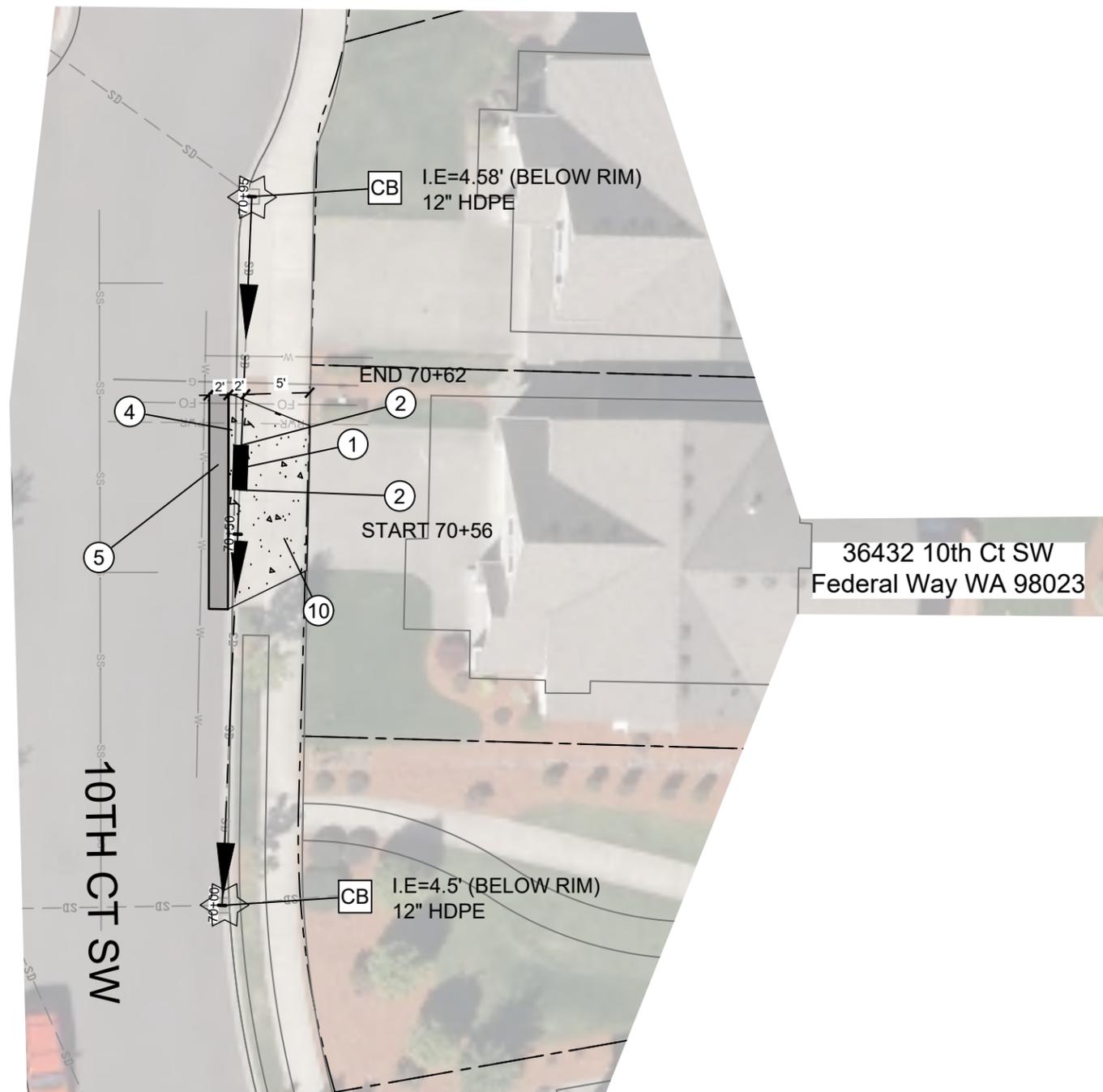
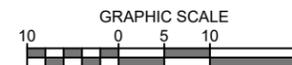


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2022 STORM PIPE REPAIR
 SITE PLAN - SCH F PIPE #11824
 12TH AVE SW & MARINE VIEW DR SW

CITY PROJECT #:
34288
 SHEET
F01
 08 OF 22

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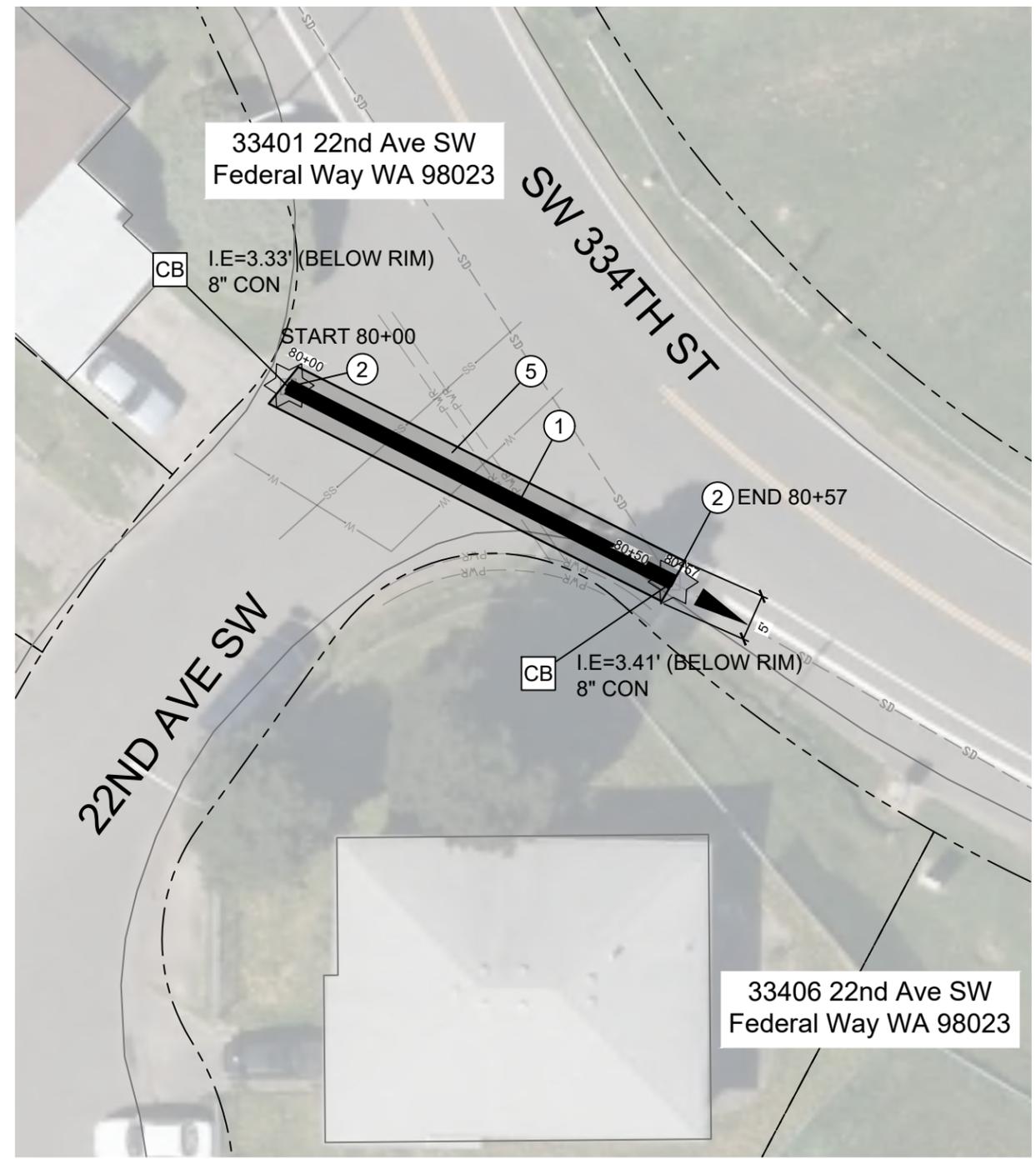
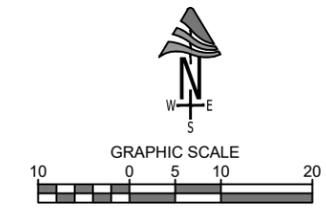
- CONSTRUCTION NOTES**
- ① REMOVE EXISTING DAMAGED 12 IN. HDPE STORM PIPE AND REPLACE WITH HDPE PIPE 12 IN. DIA
 - ② DISSIMILAR PIPE CONNECTION PER WSDOT STANDARD PLAN B-60.20-02
 - ④ CEMENT CONCRETE CURB AND GUTTER PER COFW DETAIL DWG. NO. 3-4
 - ⑤ HMA CL. 1/2" PG 58H-22, PER COFW DWG. NO. 3-28
 - ⑩ CEMENT CONC. DRIVEWAY ENTRANCE TYPE RESIDENTIAL PER COFW DWG. NO. 3-6

- GENERAL NOTES**
- * JOINT TO JOINT REPLACEMENT ON CURB GUTTER AND SIDEWALK IS REQUIRED.
 - * TRENCH BACKFILL SHALL BE CSTC.

*** ALL UTILITIES ARE APPROXIMATE. CONTRACTOR RESPONSIBLE FOR LOCATING.***

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CONSTRUCTION NOTES

- ① REMOVE EXISTING DAMAGED 8 IN. CONC. STORM PIPE AND REPLACE WITH HDPE PIPE 8 IN. DIA
- ② DISSIMILAR PIPE CONNECTION PER WSDOT STANDARD PLAN B-60.20-02
- ⑤ HMA CL. ½" PG 58H-22, PER COFW DWG. NO. 3-28

CONSTRUCTION NOTES

- ① HDPE PIPE 8 IN. DIA
- ② NOT USED
- ③ NOT USED
- ④ HMA CL. ½" PG 58H-22

GENERAL NOTES

- * JOINT TO JOINT REPLACEMENT ON CURB GUTTER AND SIDEWALK IS REQUIRED.
- * TRENCH BACKFILL SHALL BE CSTC.

*** ALL UTILITIES ARE APPROXIMATE. CONTRACTOR RESPONSIBLE FOR LOCATING.***

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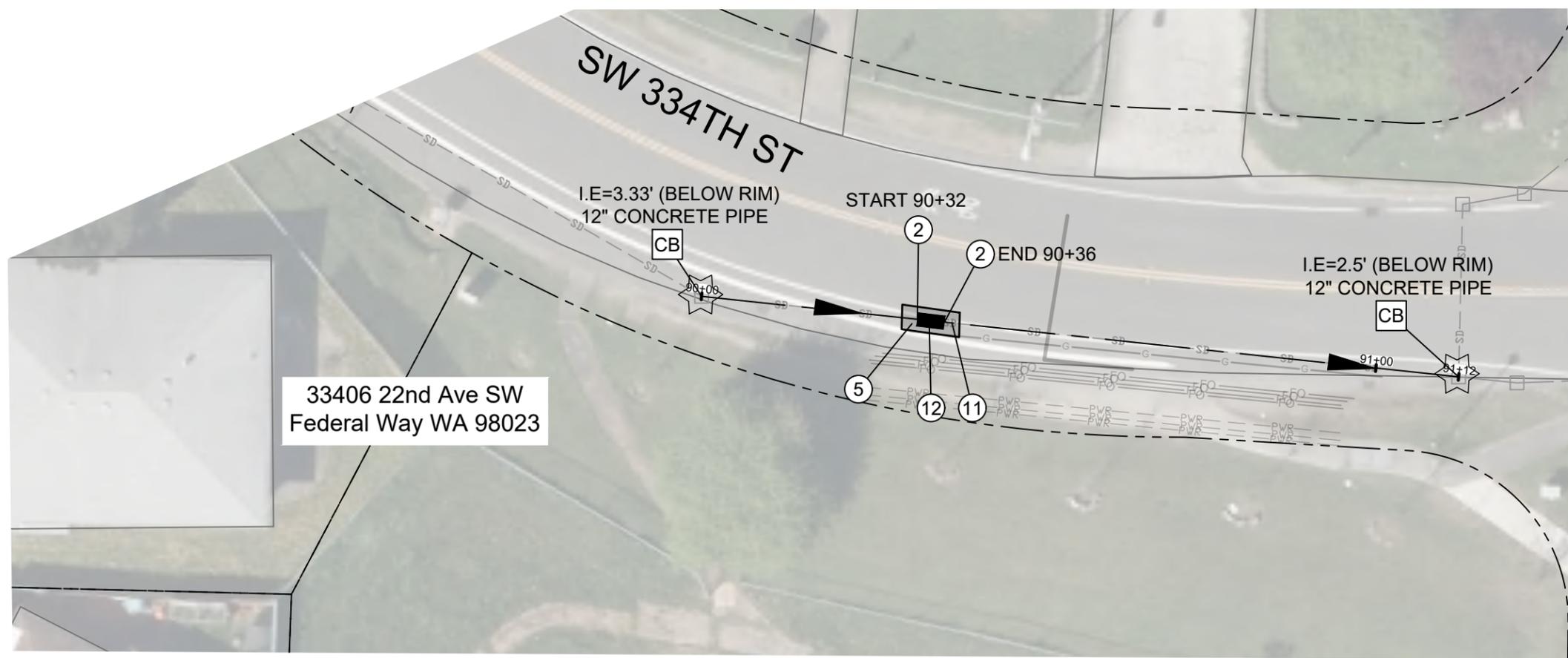
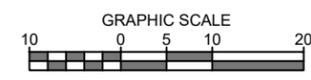
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2022 STORM PIPE REPAIR
SITE PLAN - SCH H PIPE #16767
33406 22ND AVE SW

CITY PROJECT #:
34288
SHEET
H01
10 OF 22



- CONSTRUCTION NOTES**
- ② DISSIMILAR PIPE CONNECTION PER WSDOT STANDARD PLAN B-60.20-02
 - ⑤ HMA CL. 1/2" PG 58H-22, PER COFW DWG. NO. 3-28
 - ① REPLACE PAINT LINE
 - ② REMOVE EXISTING DAMAGED 12 IN. CONC. STORM PIPE AND REPLACE WITH DUCTILE IRON STORM SEWER PIPE 12 IN DIAM.

- GENERAL NOTES**
- * TRENCH BACKFILL SHALL BE CSTC.

*** ALL UTILITIES ARE APPROXIMATE. CONTRACTOR RESPONSIBLE FOR LOCATING.***

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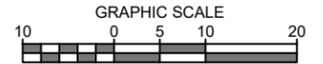
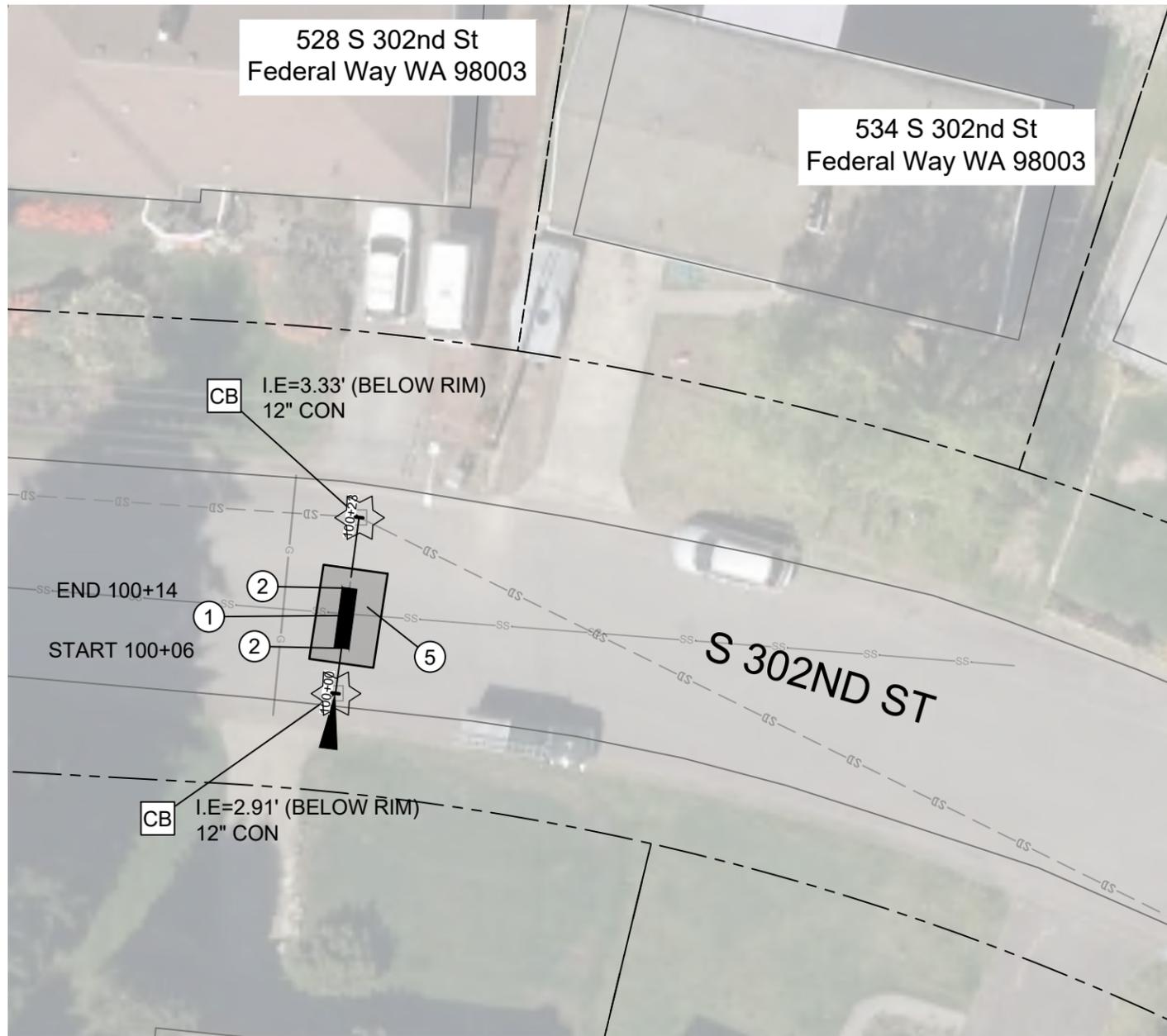
2022 STORM PIPE REPAIR
SITE PLAN - SCH I PIPE #16763
SW 334TH ST WEST OF 21ST AVE SW

CITY PROJECT #:
34288
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101
11 OF 22

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528 S 302nd St
Federal Way WA 98003

534 S 302nd St
Federal Way WA 98003



CONSTRUCTION NOTES

- ① REMOVE EXISTING DAMAGED 12 IN. CONC. STORM PIPE AND REPLACE WITH HDPE PIPE 12 IN. DIA
- ② DISSIMILAR PIPE CONNECTION PER WSDOT STANDARD PLAN B-60.20-02
- ⑤ HMA CL. 1/2" PG 58H-22, PER COFW DWG. NO. 3-28

GENERAL NOTES

- * TRENCH BACKFILL SHALL BE CSTC.

*** ALL UTILITIES ARE APPROXIMATE. CONTRACTOR RESPONSIBLE FOR LOCATING.***

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2022 STORM PIPE REPAIR

SITE PLAN - SCH J PIPE #9221
S 302ND ST NEAR 5TH AVE S

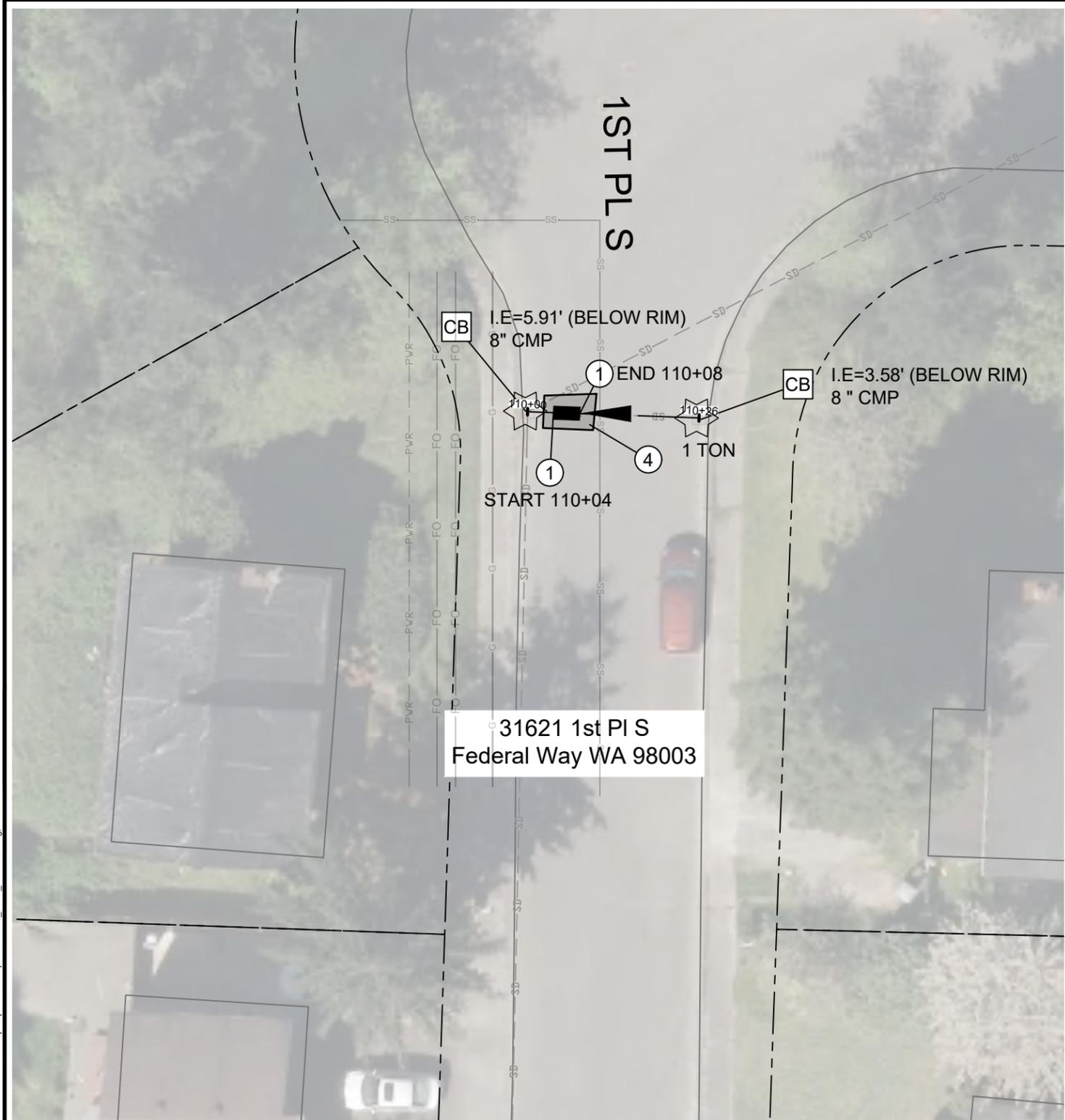
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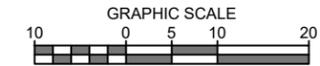
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31621 1st Pl S
Federal Way WA 98003



- CONSTRUCTION NOTES**
- ① REMOVE EXISTING DAMAGED 8 IN. CONC. STORM PIPE AND REPLACE WITH HDPE PIPE 8 IN. DIA
 - ② DISSIMILAR PIPE CONNECTION PER WSDOT STANDARD PLAN B-60.20-02
 - ⑤ HMA CL. 1/2" PG 58H-22, PER COFW DWG. NO. 3-28

- CONSTRUCTION NOTES**
- ① HDPE PIPE 8 IN. DIA
 - ② NOT USED
 - ③ NOT USED
 - ④ HMA CL. 1/2" PG 58H-22

- GENERAL NOTES**
- * TRENCH BACKFILL SHALL BE CSTC.

*** ALL UTILITIES ARE APPROXIMATE. CONTRACTOR RESPONSIBLE FOR LOCATING.***

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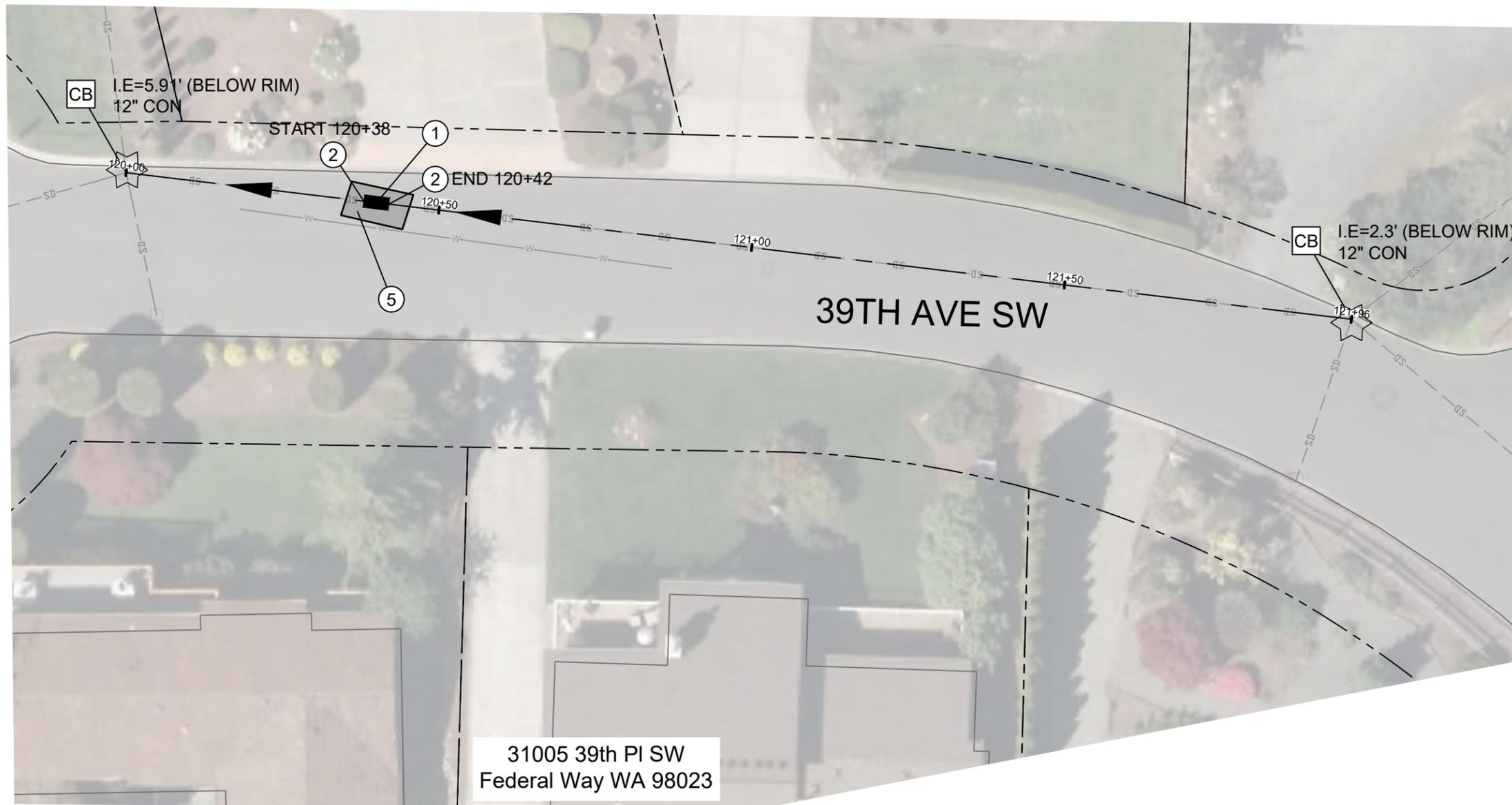
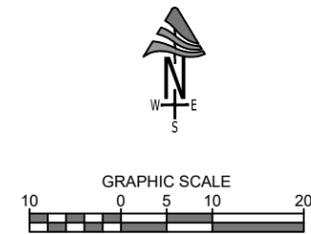
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REVIEWED: D. WINKLER
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2022 STORM PIPE REPAIR
SITE PLAN - SCH K PIPE #692
1ST PL S & S 316TH PL

CITY PROJECT #:
34288
SHEET
K01
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31005 39th Pl SW
Federal Way WA 98023

CONSTRUCTION NOTES

- ① REMOVE EXISTING DAMAGED 12 IN. CONC. STORM PIPE AND REPLACE WITH HDPE PIPE 12 IN. DIA
- ② DISSIMILAR PIPE CONNECTION PER WSDOT STANDARD PLAN B-60.20-02
- ⑤ HMA CL. ½" PG 58H-22, PER COFW DWG. NO. 3-28

GENERAL NOTES

- * TRENCH BACKFILL SHALL BE CSTC.

*** ALL UTILITIES ARE APPROXIMATE. CONTRACTOR RESPONSIBLE FOR LOCATING.***

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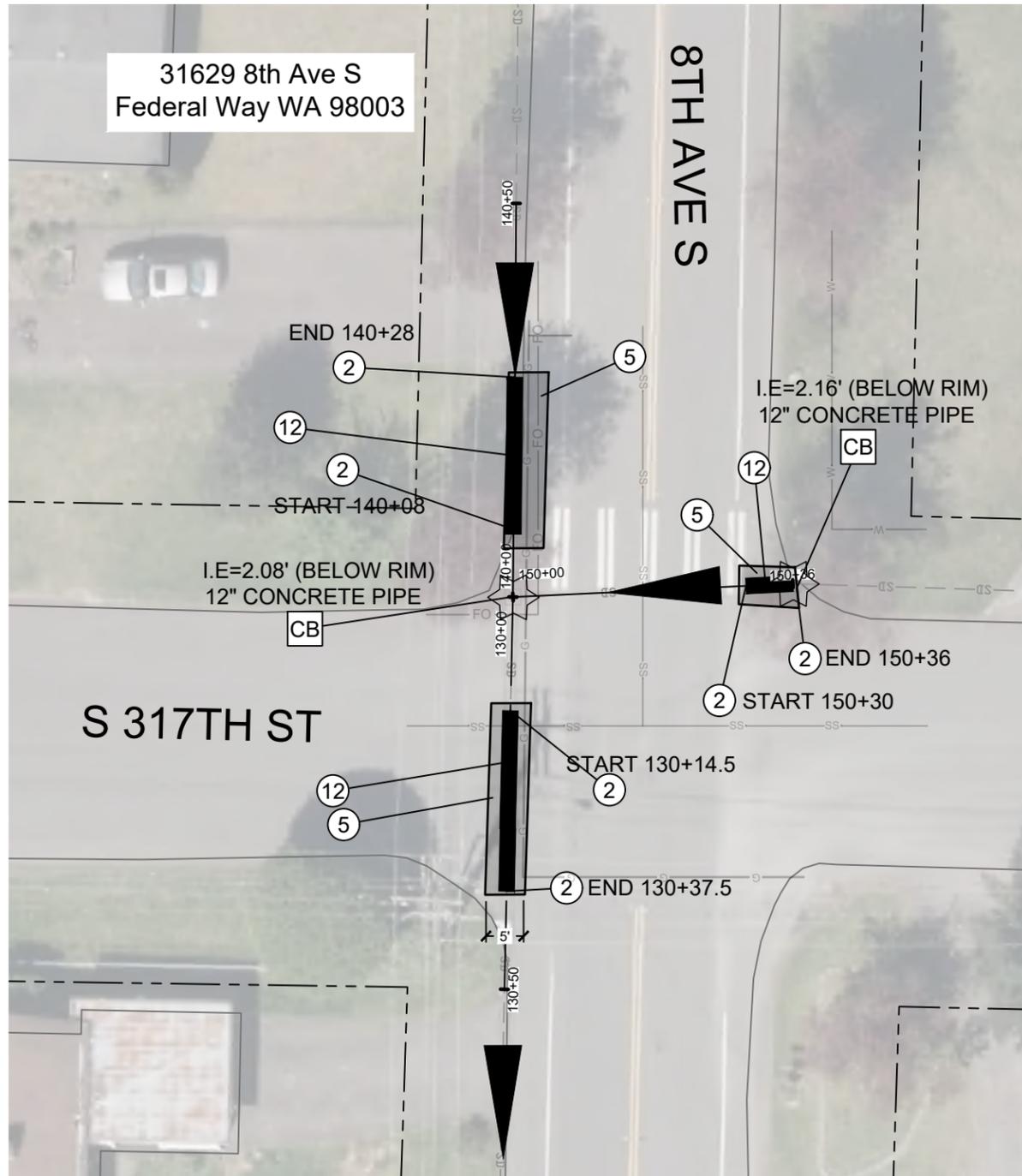
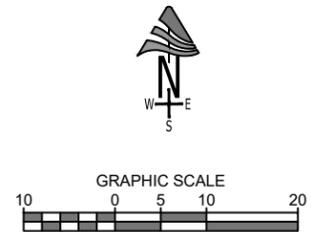
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2022 STORM PIPE REPAIR
SITE PLAN - SCH L PIPE #1804
39TH AVE SW & 39TH PL SW

CITY PROJECT #:
34288
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L01
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| CONSTRUCTION NOTES | |
|--------------------|--|
| ② | DISSIMILAR PIPE CONNECTION PER WSDOT STANDARD PLAN B-60.20-02 |
| ⑤ | HMA CL. 1/4" PG 58H-22, PER COFW DWG. NO. 3-28 |
| ⑬ | REMOVE EXISTING DAMAGED 12 IN. CONC. STORM PIPE AND REPLACE WITH DUCTILE IRON STORM SEWER PIPE 12 IN DIAM. |

| GENERAL NOTES | |
|---------------|--------------------------------|
| * | TRENCH BACKFILL SHALL BE CSTC. |

*** ALL UTILITIES ARE APPROXIMATE. CONTRACTOR RESPONSIBLE FOR LOCATING.***

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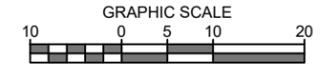
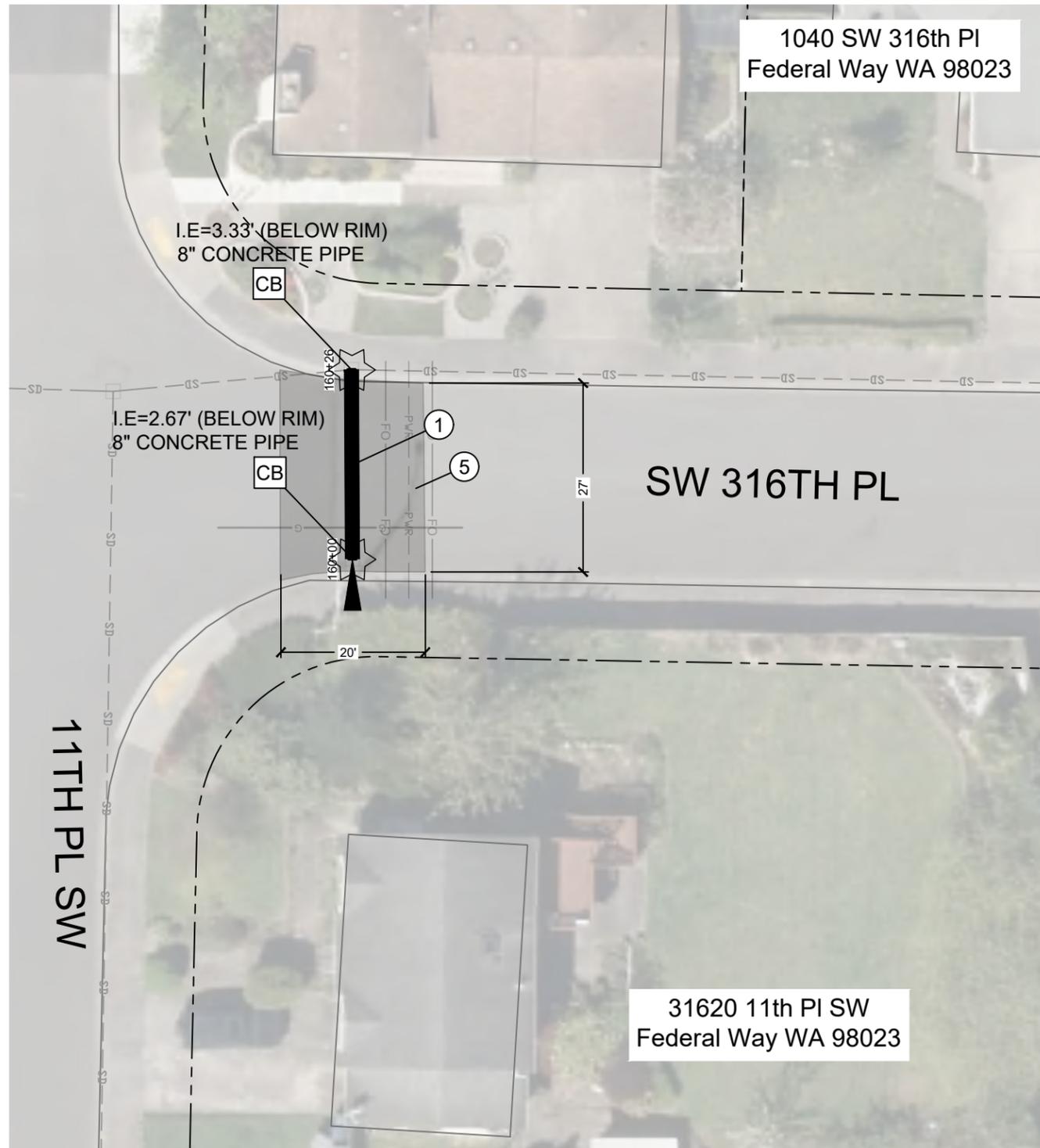
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2022 STORM PIPE REPAIR
SITE PLAN - SCH M PIPE #7922 #8833 & #8836
8TH AVE S & S 317TH ST

CITY PROJECT #:
34288
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| CONSTRUCTION NOTES | |
|--------------------|---|
| ① | REMOVE EXISTING DAMAGED 8 IN. CONC. STORM PIPE AND REPLACE WITH HDPE PIPE 8 IN. DIA |
| ⑤ | HMA CL. ½" PG 58H-22, PER COFW DWG. NO. 3-28 |

| GENERAL NOTES | |
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| * | TRENCH BACKFILL SHALL BE CSTC. |

*** ALL UTILITIES ARE APPROXIMATE. CONTRACTOR RESPONSIBLE FOR LOCATING.***

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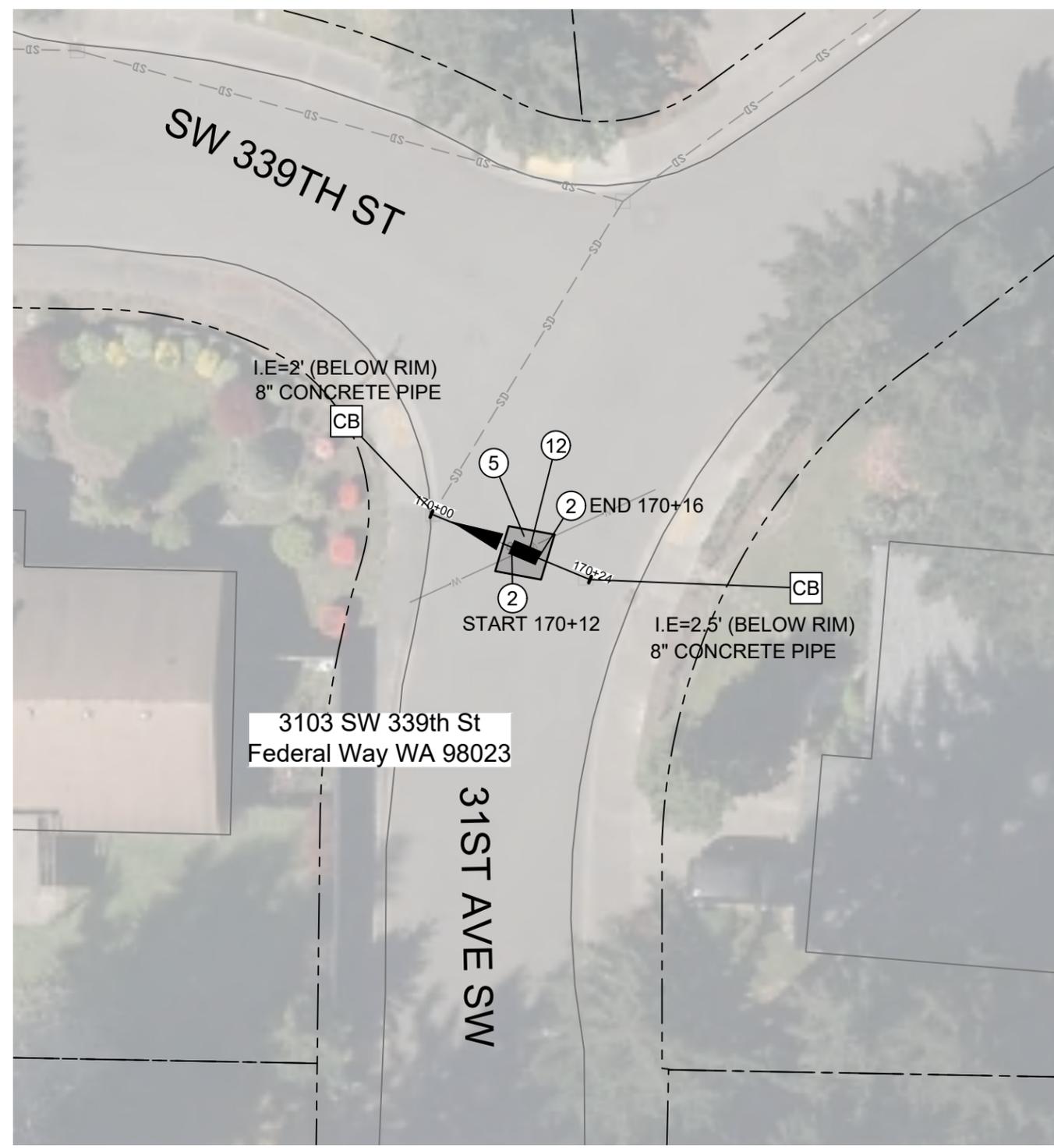
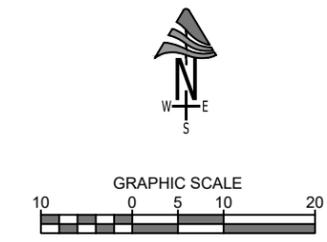
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2022 STORM PIPE REPAIR
SITE PLAN - SCH N PIPE #16109
SW 316TH PL & 11TH PL SW

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| CITY PROJECT #: | 34288 |
| SHEET | N01 |
| 16 OF 22 | |



3103 SW 339th St
Federal Way WA 98023

- CONSTRUCTION NOTES**
- ② DISSIMILAR PIPE CONNECTION PER WSDOT STANDARD PLAN B-60.20-02
 - ⑤ HMA CL. 1/2" PG 58H-22, PER COFW DWG. NO. 3-28
 - ⑫ REMOVE EXISTING DAMAGED 8 IN. CONC. STORM PIPE AND REPLACE WITH DUCTILE IRON STORM SEWER PIPE 8 IN DIAM.

- GENERAL NOTES**
- * TRENCH BACKFILL SHALL BE CSTC.

*** ALL UTILITIES ARE APPROXIMATE. CONTRACTOR RESPONSIBLE FOR LOCATING.***

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2022 STORM PIPE REPAIR
SITE PLAN - SCH O PIPE #1192
3103 SW 339TH ST

CITY PROJECT #:
34288
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32807 35th Ave SW
Federal Way WA 98023

I.E=4.5' (BELOW RIM)
15" CONCRETE PIPE

I.E=3.42' (BELOW RIM)
15" CONCRETE PIPE

CB
①
⑤
② END 180+86
② START 180+82

⑤
①
② END 180+33
② START 180+21

SW 330TH ST

35TH AVE SW

33005 35th Ave SW
Federal Way WA 98023



CONSTRUCTION NOTES

- ① REMOVE EXISTING DAMAGED 15 IN. CONC. STORM PIPE AND REPLACE WITH HDPE PIPE 15 IN. DIA
- ② DISSIMILAR PIPE CONNECTION PER WSDOT STANDARD PLAN B-60.20-02
- ⑤ HMA CL. 1/2" PG 58H-22, PER COFW DWG. NO. 3-28

GENERAL NOTES

- * TRENCH BACKFILL SHALL BE CSTC.

*** ALL UTILITIES ARE APPROXIMATE. CONTRACTOR RESPONSIBLE FOR LOCATING.***

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2022 STORM PIPE REPAIR

SITE PLAN - SCH P PIPE #2307

33005 35TH AVE SW

CITY PROJECT #:

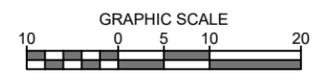
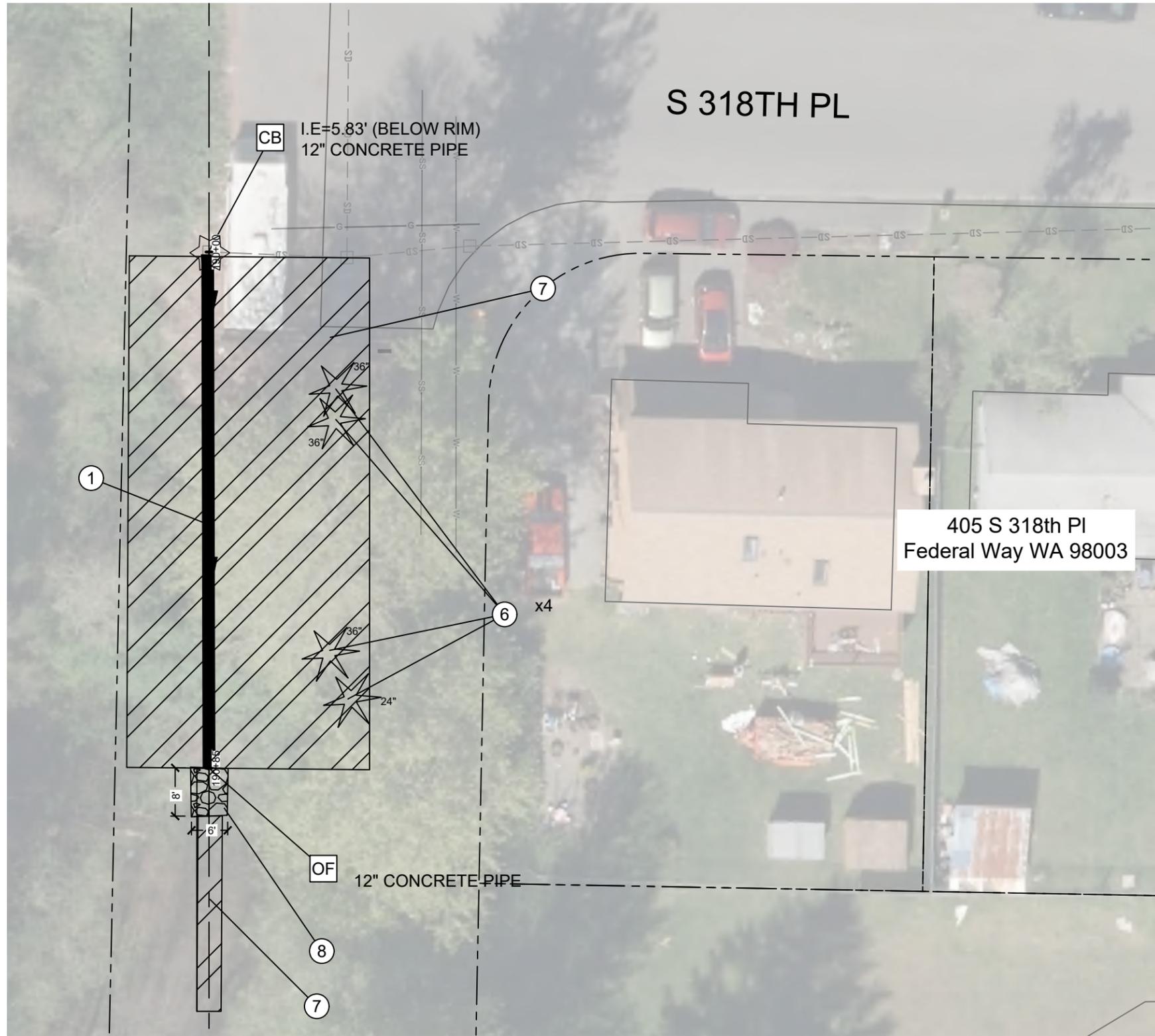
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- CONSTRUCTION NOTES**
- ① REMOVE EXISTING DAMAGED 12 IN. CONC. STORM PIPE AND REPLACE WITH HDPE PIPE 12 IN. DIA
 - ② DISSIMILAR PIPE CONNECTION PER WSDOT STANDARD PLAN B-60.20-02
 - ③ HMA CL. 1/2" PG 58H-22, PER COFW DWG. NO. 3-28
 - ④ TREE REMOVAL
 - ⑦ CLEAR AND GRUB
 - ⑧ OUTLET PROTECTION, SEE OUTFALL DETAIL PAGE 3

- GENERAL NOTES**
- * TRENCH BACKFILL SHALL BE CSTC.
 - * ALL WORK IS IN SOFT SURFACE SHOULDER.
 - * OUTFALL AREA NEEDS REESTABLISHED.

*** ALL UTILITIES ARE APPROXIMATE. CONTRACTOR RESPONSIBLE FOR LOCATING.***

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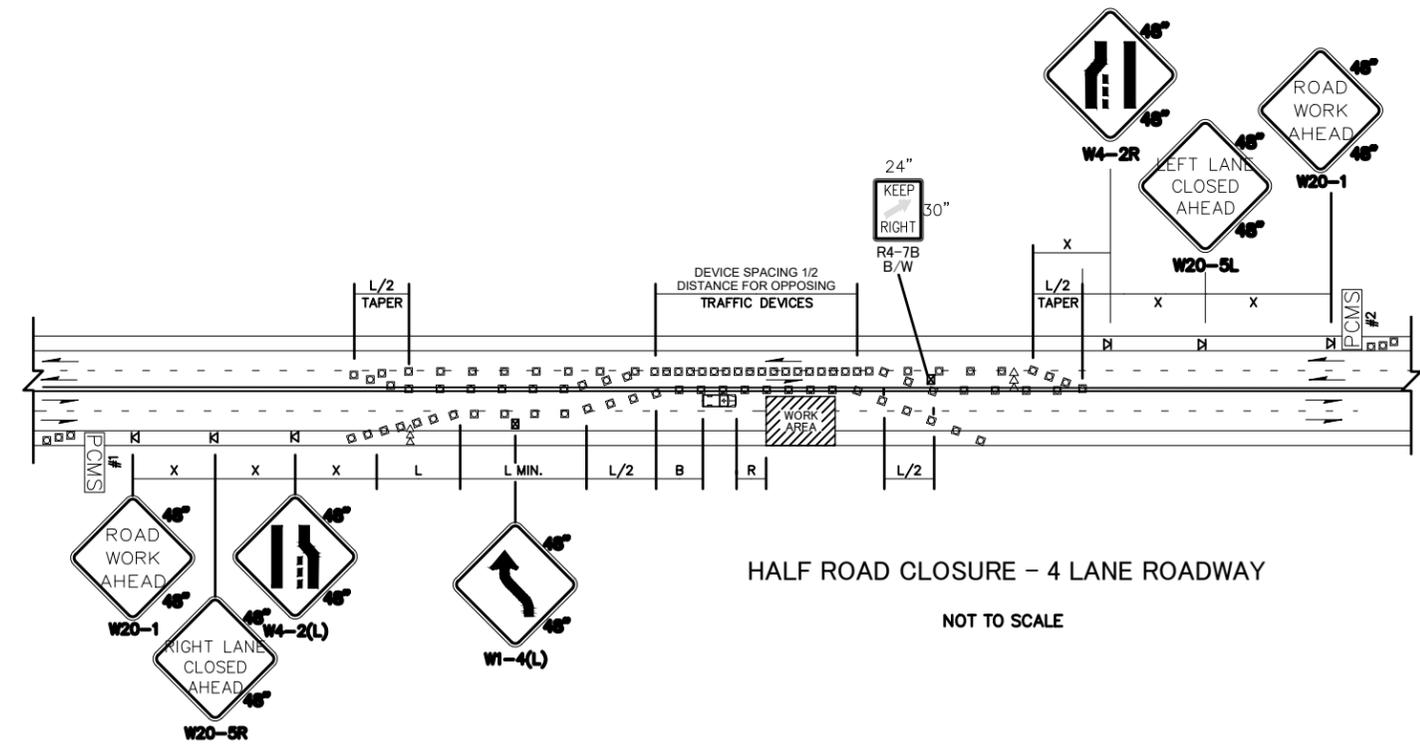
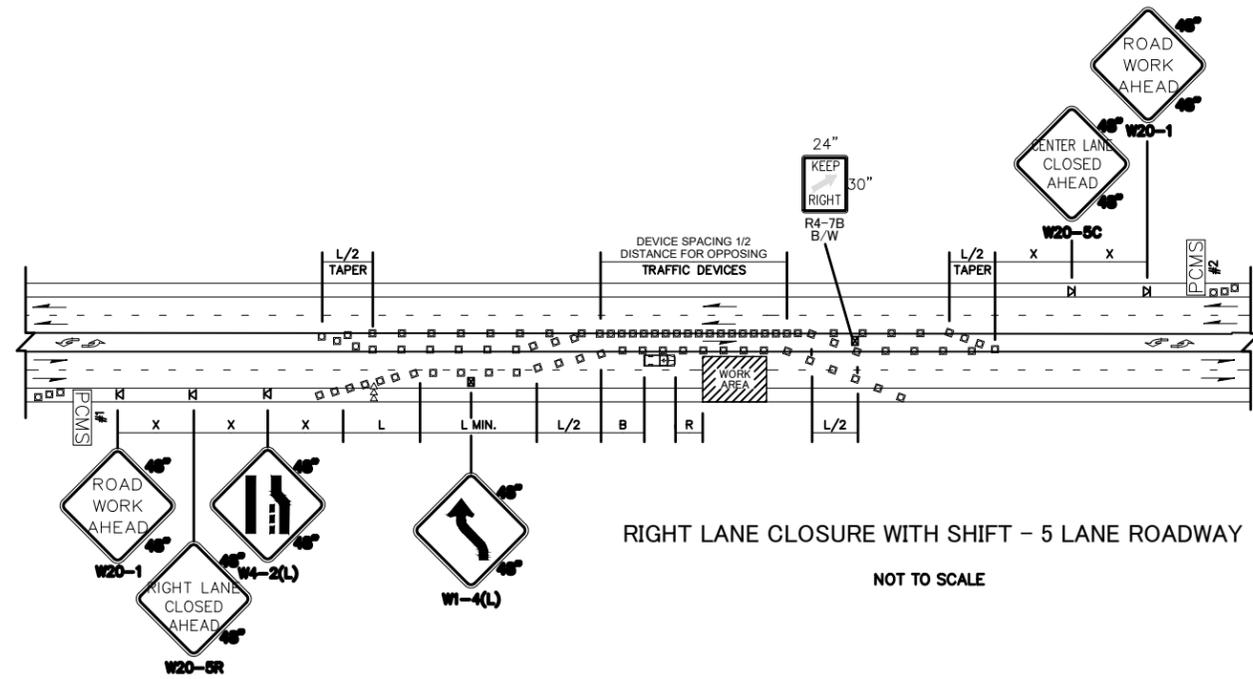
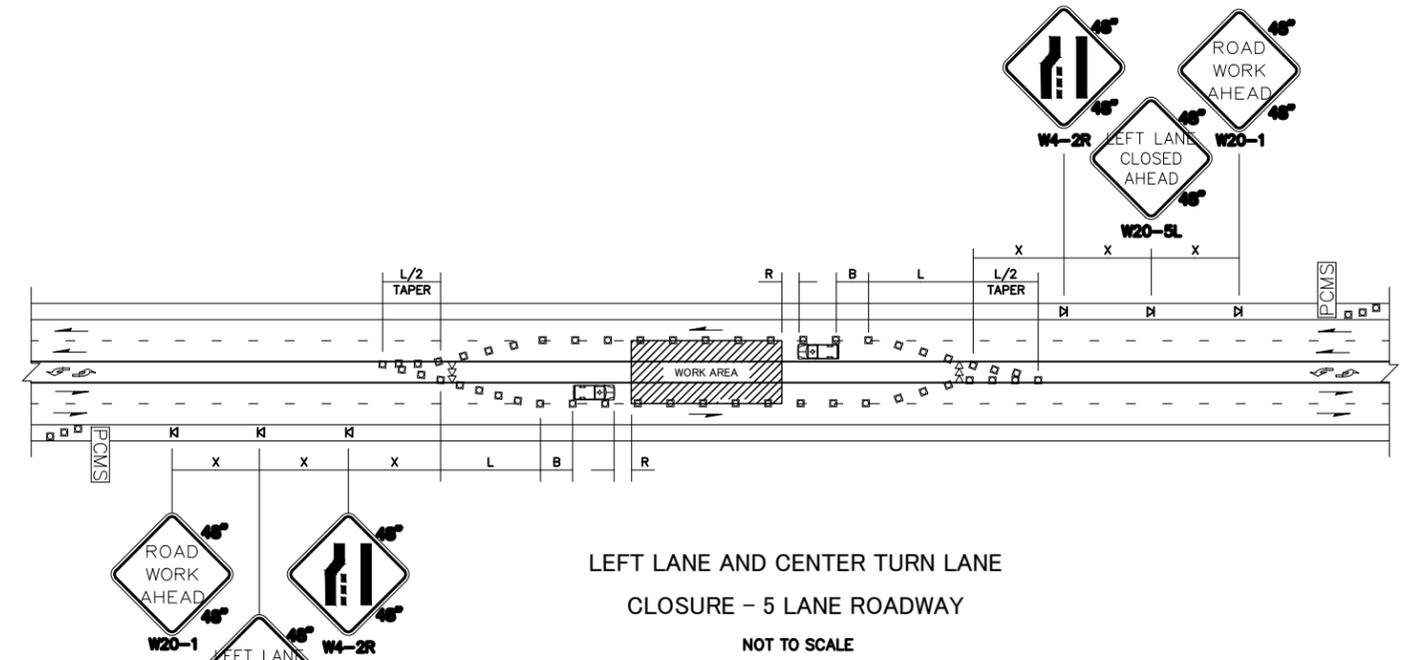
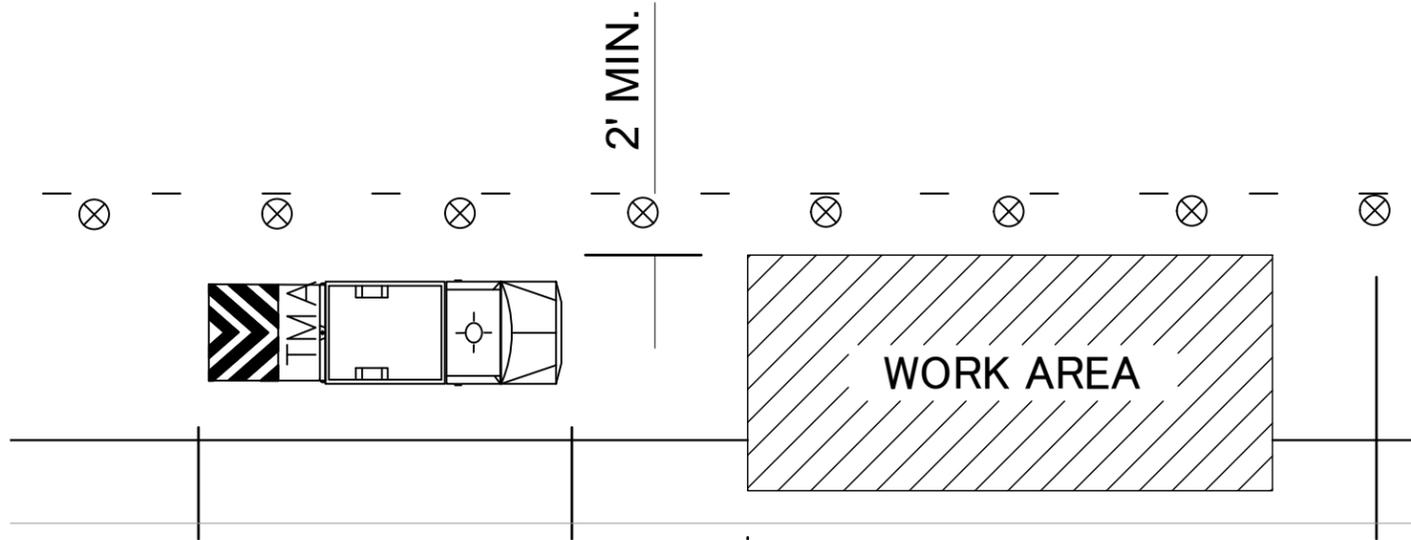


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2022 STORM PIPE REPAIR
SITE PLAN - SCH Q PIPE #8132
4TH AVE S & S 318TH PL

CITY PROJECT #:
34288
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2022 STORM PIPE REPAIR
TRAFFIC CONTROL PLAN 1

CITY PROJECT #:
34288
SHEET
TC-1
--- OF 22

| MINIMUM LANE CLOSURE TAPER LENGTH = L (feet) | | | | | | | | | | |
|--|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| LANE WIDTH (feet) | Posted Speed (mph) | | | | | | | | | |
| | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 |
| 10 | 105 | 150 | 205 | 270 | 450 | 500 | 550 | - | - | - |
| 11 | 115 | 165 | 225 | 295 | 495 | 550 | 605 | 660 | - | - |
| 12 | 125 | 180 | 245 | 320 | 540 | 600 | 660 | 720 | 780 | 840 |

| MINIMUM SHOULDER TAPER LENGTH = L/3 (feet) | | | | | | | | | | |
|--|--------------------|----|----|----|-----|-----|-----|-----|-----|-----|
| SHOULDER WIDTH (feet) | Posted Speed (mph) | | | | | | | | | |
| | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 |
| 8' | 40 | 40 | 60 | 90 | 120 | 130 | 150 | 160 | 170 | 190 |
| 10' | 40 | 60 | 90 | 90 | 150 | 170 | 190 | 200 | 220 | 240 |

USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'.

| BUFFER DATA | | | | | | | | | | |
|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| LONGITUDINAL BUFFER SPACE = B | | | | | | | | | | |
| SPEED (MPH) | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 |
| LENGTH (feet) | 155 | 200 | 250 | 305 | 360 | 425 | 495 | 570 | 645 | 730 |

| TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R | | | | | |
|--|-----------|----------|--------------------------------------|-----------|----------|
| HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs. | | | HOST VEHICLE WEIGHT > 22,000 lbs. | | |
| < 45 MPH | 45-55 MPH | > 55 MPH | < 45 MPH | 45-55 MPH | > 55 MPH |
| 100' | 123' | 172' | 74' | 100' | 150' |

PROTECTIVE VEHICLE (WORK VEHICLE) = R
NO SPECIFIED DISTANCE REQUIRED

| PCMS #1 | |
|---------------------------|--------------|
| 1 | 2 |
| RIGHT / LEFT LANE CLOSURE | 1 MILE AHEAD |
| 2.0 SEC | 2.0 SEC |

FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.

| PCMS #2 | |
|--------------------|------------------|
| 1 | 2 |
| CENTER LANE CLOSED | NNO LEFT TURNING |
| 2.0 SEC | 2.0 SEC |

FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.

| SIGN SPACING = X (1) | | |
|---|----------------|--------------|
| RURAL ROADS | 45 / 55 MPH | 500' +/- |
| RURAL ROADS & URBAN ARTERIALS | 35 / 40 MPH | 350' +/- |
| RURAL ROADS & URBAN ARTERIALS RESIDENTIAL & BUSINESS DISTRICTS | 25 / 30 MPH | 200' +/- (2) |
| URBAN STREETS | 25 MPH OR LESS | 100' +/- (2) |

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

| CHANNELIZATION DEVICE SPACING (feet) | | |
|--------------------------------------|-------|---------|
| MPH | TAPER | TANGENT |
| 50 | 40 | 80 |
| 35/45 | 30 | 60 |
| 25/30 | 20 | 40 |

NOTES

1. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
2. EXTEND DEVICE TAPER AT L/3 ACROSS SHOULDER.
3. DEVICES SHALL NOT ENCROACH INTO THE ADJACENT LANE.
4. USE TRANSVERSE DEVICES IN CLOSED LANE EVERY 1000' (FT) (RECOMMENDED).
5. DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20' (FT).
6. ALL SIGNS ARE BLACK ON ORANGE.

LEGEND

- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- SEQUENTIAL ARROW SIGN
- PROTECTIVE VEHICLE
- PORTABLE CHANGEABLE MESSAGE SIGN
- TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)

100% DRAWINGS



DRAFTED: J. COLE
DESIGNED: J. COLE
REVIEWED: D. WINKLER
APPROVED: D. WINKLER



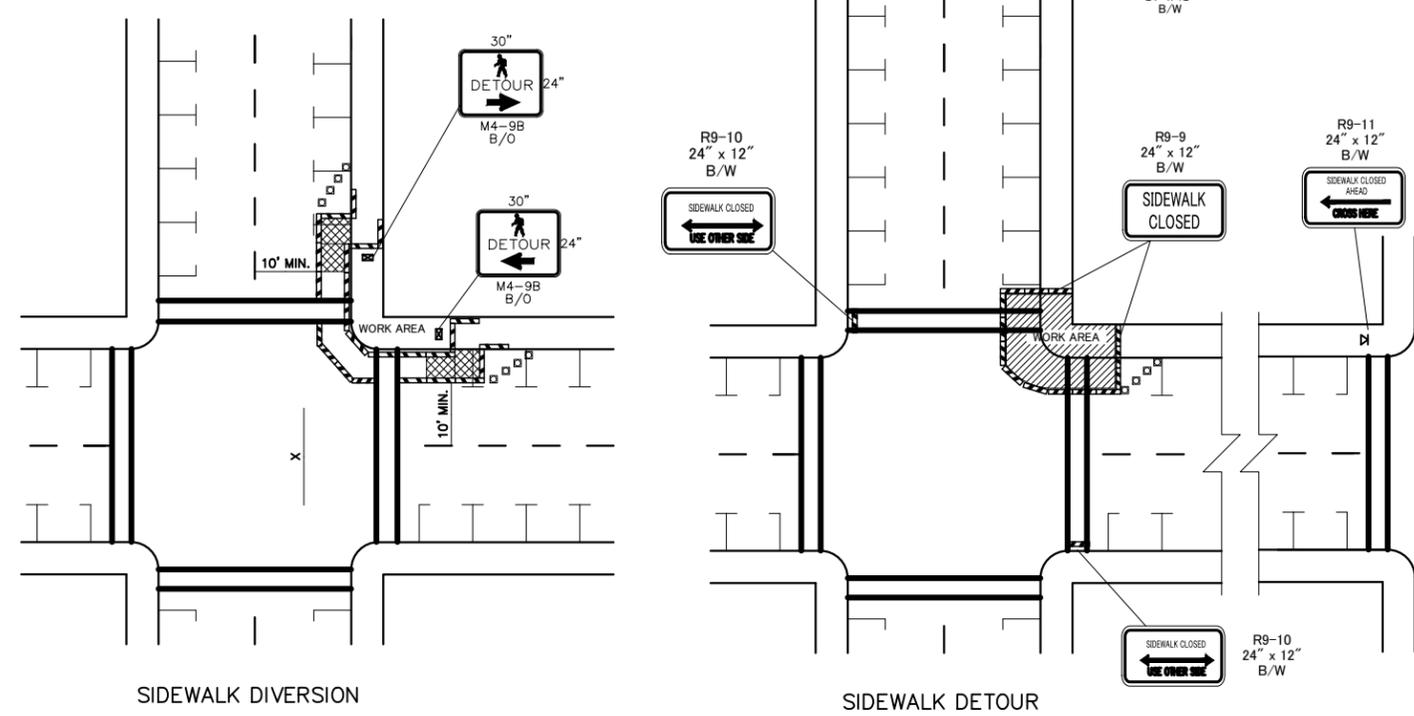
| DRAWING VERSION / REVISION LOG | | |
|--------------------------------|------|----------|
| NO. | DATE | REVISION |
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**2022 STORM PIPE REPAIR
TRAFFIC CONTROL PLAN 2**

CITY PROJECT #:
34288
SHEET
TC-2
---- OF 22

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NO PARKING R8-3 24" x 30" R/W
 INSTALL ON TYPE 2 BARRICADES THROUGHOUT THE WORK AREA 24 HOURS PRIOR TO IMPLEMENTING TRAFFIC CONTROL. PRIOR NOTIFICATION OF LOCAL LAW ENFORCEMENT REQUIRED.



INTERSECTION PEDESTRIAN TRAFFIC CONTROL

NOT TO SCALE

NOTES

1. CONTROLS SHOWN ARE FOR PEDESTRIAN TRAFFIC ONLY.
2. A 60" PATH WIDTH SHOULD BE MAINTAINED (48" IS THE MINIMUM).
3. CONTACT AND COORDINATE IMPACTED TRANSIT AGENCIES PRIOR TO IMPLEMENTING ANY CLOSURES.
4. ADA PEDESTRIAN FACILITIES MUST BE MAINTAINED.
5. TEMPORARY PEDESTRIAN PUSH BUTTONS SHALL BE PLACED ON THE DIVERTED PATH WHEN EXISTING BUTTONS ARE NOT ACCESSIBLE TO PEDESTRIANS.

LEGEND

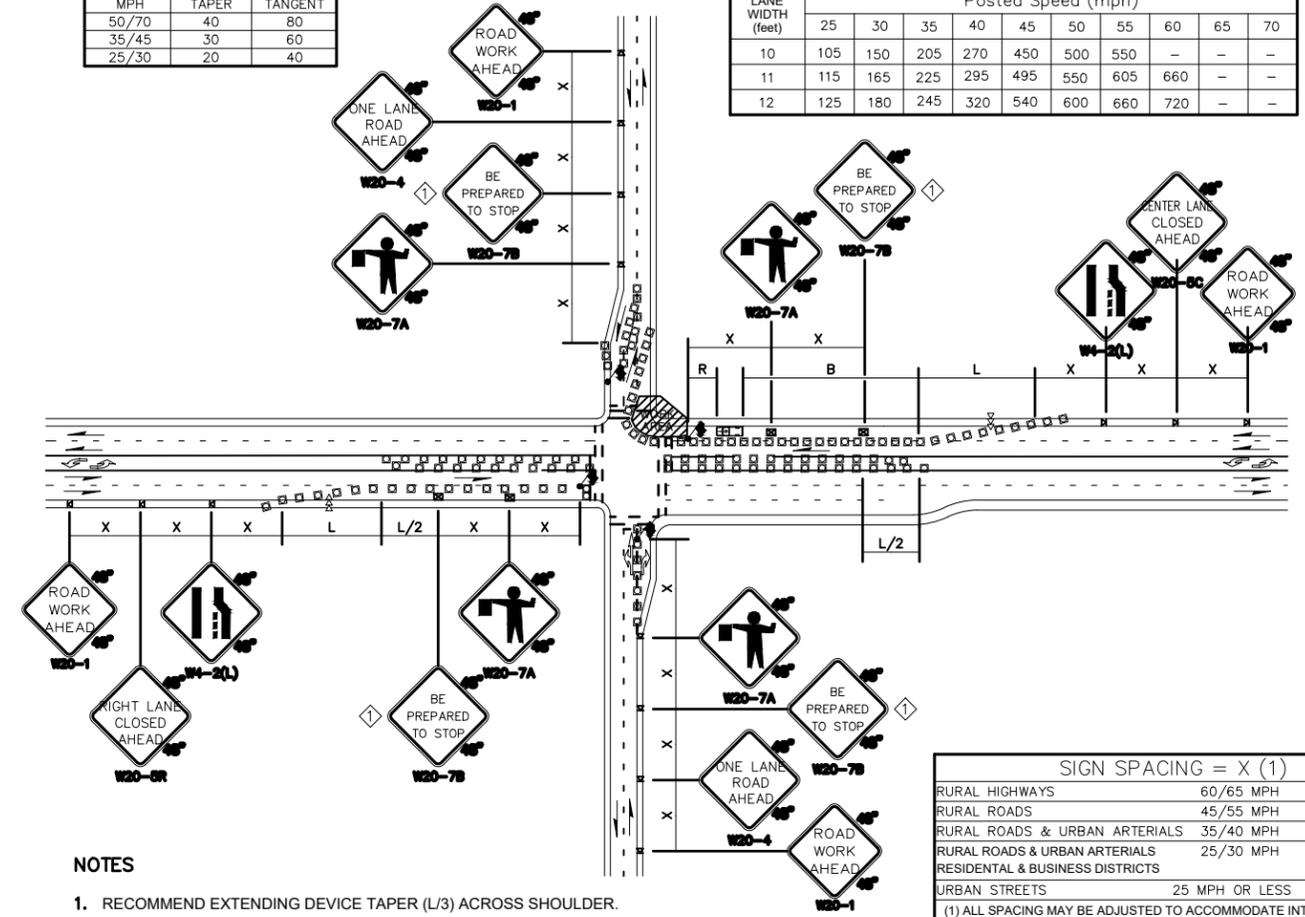
- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- PEDESTRIAN CHANNELIZING DEVICES
- TEMPORARY PEDESTRIAN RAMP FOR SIDEWALKS

CHANNELIZATION DEVICE SPACING (feet)

| MPH | TAPER | TANGENT |
|-------|-------|---------|
| 50/70 | 40 | 80 |
| 35/45 | 30 | 60 |
| 25/30 | 20 | 40 |

MINIMUM TAPER LENGTH = L (feet)

| LANE WIDTH (feet) | Posted Speed (mph) | | | | | | | | | |
|-------------------|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 |
| 10 | 105 | 150 | 205 | 270 | 450 | 500 | 550 | 605 | 660 | 720 |
| 11 | 115 | 165 | 225 | 295 | 495 | 550 | 605 | 660 | 720 | 780 |
| 12 | 125 | 180 | 245 | 320 | 540 | 600 | 660 | 720 | 780 | 840 |



NOTES

1. RECOMMEND EXTENDING DEVICE TAPER (L/3) ACROSS SHOULDER.
2. IF A SIGNAL IS PRESENT, IT SHALL BE SET TO "RED FLASH MODE" OR TURNED OFF DURING FLAGGING OPERATIONS.
3. MAINTAIN A MINIMUM OF ONE ACCESS POINT FOR EACH BUSINESS WITHIN WORK AREA LIMITS.
4. ALL SIGNS ARE BLACK ON ORANGE.

SIGN SPACING = X (1)

| ROAD TYPE | POSTED SPEED | MINIMUM SPACING |
|----------------------------------|----------------|-----------------|
| RURAL HIGHWAYS | 60/65 MPH | 800' +/- |
| RURAL ROADS | 45/55 MPH | 500' +/- |
| RURAL ROADS & URBAN ARTERIALS | 35/40 MPH | 350' +/- |
| RURAL ROADS & URBAN ARTERIALS | 25/30 MPH | 200' +/- (2) |
| RESIDENTIAL & BUSINESS DISTRICTS | | |
| URBAN STREETS | 25 MPH OR LESS | 100' +/- (2) |

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
 (2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

INTERSECTION LANE CLOSURE - FIVE LANE ROADWAY

LEGEND

- FLAGGING STATION
- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- SEQUENTIAL ARROW SIGN
- PROTECTIVE VEHICLE - RECOMMENDED
- TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)

BUFFER DATA

LONGITUDINAL BUFFER SPACE = B

| SPEED (MPH) | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 |
|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| LENGTH (feet) | 155 | 200 | 250 | 305 | 360 | 425 | 495 | 570 | 645 | 730 |

TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R

| SPEED (MPH) | HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs. | | | HOST VEHICLE WEIGHT > 22,000 lbs. | | |
|-------------|--|-----------|----------|-----------------------------------|-----------|----------|
| | < 45 MPH | 45-55 MPH | > 55 MPH | < 45 MPH | 45-55 MPH | > 55 MPH |
| 100' | 123' | 172' | 74' | 100' | 150' | |

PROTECTIVE VEHICLE (WORK VEHICLE) = R
 NO SPECIFIED DISTANCE REQUIRED

100% DRAWINGS

CITY OF Federal Way
 Centered on Opportunity
 33325 8TH AVE S FEDERAL WAY, WA 98003
 PHONE: (253) 835-2700
 WWW.CITYOFFEDERALWAY.COM

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 Know what's below.
 Call before you dig.

DRAFTED: J. COLE
 DESIGNED: J. COLE
 REVIEWED: D. WINKLER
 APPROVED: D. WINKLER



DRAWING VERSION / REVISION LOG

| NO. | DATE | REVISION |
|-----|------|----------|
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2022 STORM PIPE REPAIR
TRAFFIC CONTROL PLAN 3

CITY PROJECT #: 34288
 SHEET: TC-3
 OF 22