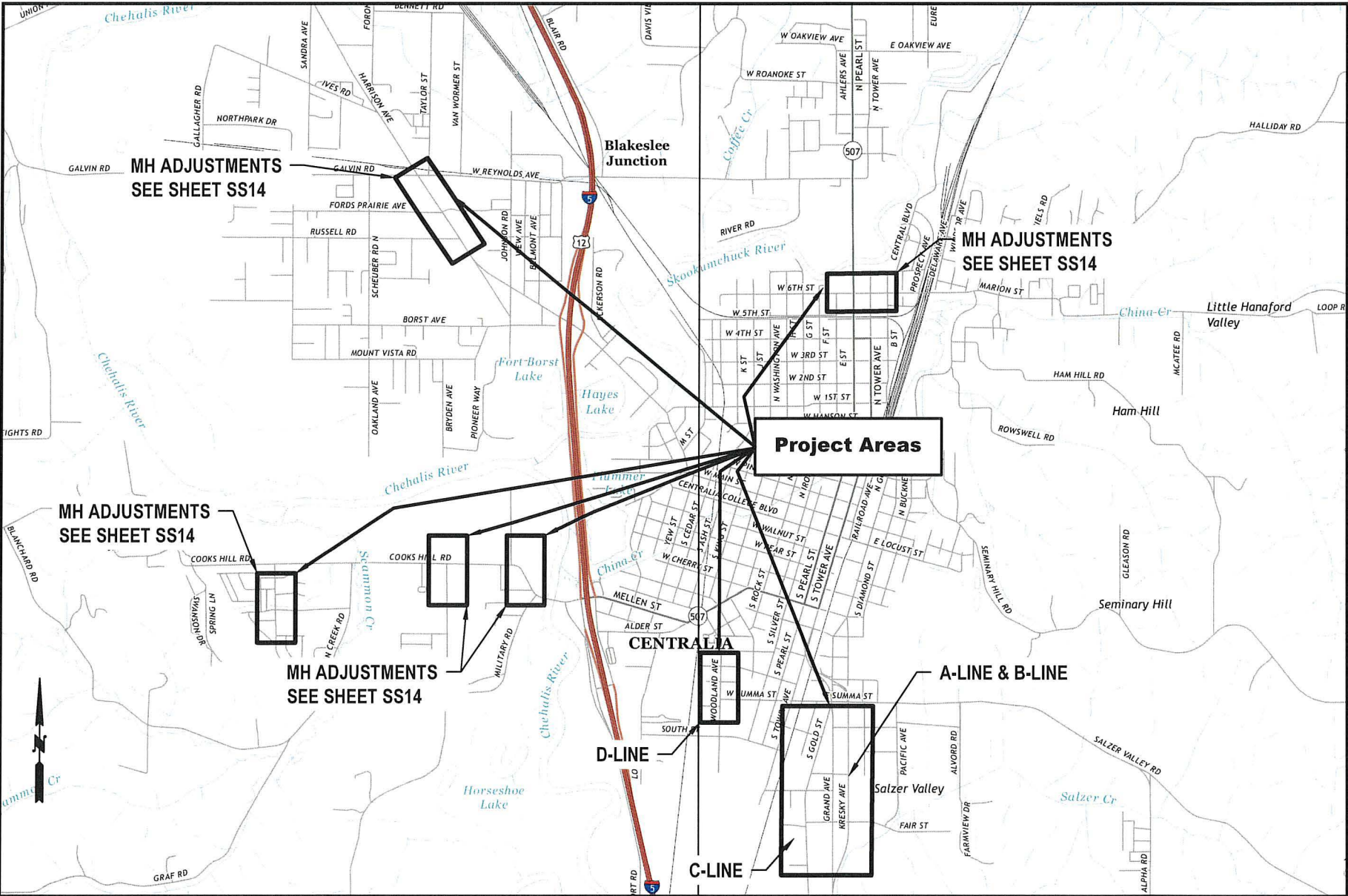


CITY OF CENTRALIA
2025 Sanitary Sewer Pipe Bursting and CIPP Main Replacement
PW 2025-04

CITY OF CENTRALIA
PUBLIC WORKS
ENGINEERING DEPT.
1100 N. TOWER AVE
CENTRALIA, WA 98531
P: 360.330.7512 F: 360.330.7516
CITYOFCENTRALIA.COM

"CALL UNDERGROUND LOCATE 2 BUSINESS DAYS BEFORE YOU DIG AT 811"



VICINITY MAP

EXISTING:				PROPOSED:			
---	ROAD CENTER LINE	---	GAS	---	EDGE OF PAVEMENT	---	SEWER MAIN
---	FENCE	---	OH PWR	---	OVERHEAD POWER	---	60" MANHOLE
---	RIGHT OF WAY	---	UG PWR	---	WATERMAIN	---	ASPHALT RESTORATION AREA
SS	SEWERMAIN	---	ST LT	---	STORMMAIN	---	CEMENT CONCRETE RESTORATION AREA
⊙	SEWER MANHOLE	●	SHRUB/SMALL TREE	---	WATER VALVE	---	
⊙	STORM MANHOLE	●	TREE	---	STREET LIGHT	---	
⊙	WATER METER	---	SIGN	---	SURVEY MONUMENT	---	
⊙	UTILITY POLE	---	DOWN GUY	---		---	

LEGEND

GENERAL

- G01 COVER SHEET
- G02 PROJECT & STREET GENERAL NOTES
- G03 SANITARY SEWER GENERAL NOTES

SANITARY SEWER

- SS01 A LINE - PIPE BURSTING - STA 0+00 TO 2+00
- SS02 A LINE - PIPE BURSTING - STA 2+00 TO 4+50
- SS03 A LINE - PIPE BURSTING - STA 4+50 TO 7+00
- SS04 A LINE - PIPE BURSTING / CIPP LINING - STA 7+00 TO 8+47
- SS05 B LINE - PIPE BURSTING / CIPP LINING - STA 0+00 TO 2+50
- SS06 B LINE - PIPE BURSTING / CIPP LINING - STA 2+50 TO 4+50
- SS07 B LINE - PIPE BURSTING - STA 4+50 TO 7+00
- SS08 B LINE - PIPE BURSTING / CIPP LINING - STA 7+00 TO 9+78
- SS09 C LINE - PIPE BURSTING - STA 0+00 TO 2+00
- SS10 C LINE - PIPE BURSTING - STA 2+00 TO 4+50
- SS11 C LINE - PIPE BURSTING - STA 4+50 TO 7+00
- SS12 C LINE - PIPE BURSTING / OPEN CUT - STA 7+00 TO 8+34
- SS13 D LINE - CIPP LINING - STA 0+00 TO 2+50
- SS14 MANHOLE CASTING ADJUSTMENTS

SEWER DETAILS

- SD01 SANITARY SEWER DETAILS - LATERAL & MANHOLE
- SD02 SANITARY SEWER DETAILS - COLLAR & CLEANOUT
- SD03 SANITARY SEWER DETAILS - INSERT PIT

RESTORATION

- R01 ADA AND SIDEWALK RESTORATION

RESTORATION DETAILS

- RD01 RESTORATION DETAILS - TRENCH RESTORATION
- RD02 RESTORATION DETAILS - SIDEWALK & CURB GUTTER
- RD03 RESTORATION DETAILS - DRIVEWAYS
- RD04 RESTORATION DETAILS - ADA RAMP

SHEET INDEX

COVER
2025 SANITARY SEWER
PIPE BURSTING AND CIPP
MAIN REPLACEMENT
PW 2025-04



DESIGNED BY: P. PAGE
DRAWN BY: C. TORSTVET
SURVEYED BY: C. TORSTVET
CHECKED BY: P. PAGE
April, 2025

PIPE BURSTING PROJECT
GENERAL NOTES

1. All construction and materials shall be in accordance with the requirements specified in the Contract Specifications. Contractor shall determine best locations for insertion and receiving pits. Locations are not pre-determined.
2. Locations of existing laterals shown is based off of best information available. The contractor is required to pot hole to verify lateral locations at the sewer main and right-of-way/easement prior to pipe bursting. Install temporary plugs while bursting if necessary and tie in to new main.
3. Contractor to verify manhole IEs prior to ordering manholes. Outfall to be lower than inlet(s) and maintain fall through the structure & pipe connections. See special provisions for Manhole rehab information
4. Lateral connections to new main shall be made by Electrofusion tee/wye or another pre-approved method. Laterals must be replaced perpendicular to the mainline and from mainline to property line. Install a cleanout at the property line/easement and reconnect to existing pipe using strong-back ferncos. Existing side sewer pipe material and size will vary. Use IPS to PVC couplers at fusion tees.
5. Connections to new manholes shall be made by Kor-N-Seal boot or approved equal and finished with quick setting non-shrink grout with antimicrobial additive.
6. Other existing utilities shown in the plan sheets are for reference only and are not exact. Contractor shall call one-call locate service to determine where other utilities are prior to work. Contractor shall adjust pulling and insertion pit locations if necessary to avoid existing utilities.
7. The contractor shall remove and reinstall the existing fencing at lateral connection and bursting pit locations as needed. Contact resident prior to removal.
8. The contractor shall remove and replant shrubs at lateral connection and bursting pit locations as needed. Replace any vegetation that is damaged and not salvageable.
9. All Manholes and Cleanout locations are per GPS coordinates. Aerial background is approximate for visual reference only.
10. All restoration shown are approximate limits for quantity and visual reference. Restoration limits will be determined in the field prior to sawcutting for insertion and receiving pits.
11. If asphalt and/or concrete alley approaches/driveways are damaged during construction, Contractor shall replace full width of approach.
12. Reconnect existing sewer laterals to sewer main a minimum of 2' separation between the laterals and 6' minimum separation from the manhole.

STREET CONSTRUCTION
GENERAL NOTES

1. All workmanship and materials shall be in accordance with City of Centralia standards and the most current edition of the WSDOT/APWA Standard Specifications for Road, Bridge and Municipal Construction.
2. The contractor shall be responsible for all traffic control in accordance with MUTCD. Prior to disruption of any traffic, traffic control plans shall be prepared and submitted to the City for approval. No work shall commence until all approved traffic control is in place.
3. All street grades, sidewalk grades, and any other vertical and/or horizontal alignment shall be staked by an engineering or surveying firm capable of such work. All vertical control shall be established using the 1988 USGS Datum.
4. Where new asphalt joins existing, the existing asphalt shall be cut to a neat vertical edge and tacked with Asphalt Emulsion Type CSS-1 in accordance with the Standard Specifications. The new asphalt shall be feathered back over existing to provide for a seal at the saw cut location and the joint sealed with grade AR-4000W paving asphalt.
5. Compaction requirements of trench restoration, subgrade and pavement shall be in accordance with the current edition of the W.S.D.O.T. Standard Specifications.
6. Form and subgrade inspection by the City is required before pouring concrete. Twenty-four hours notice is required for form inspection.
7. Testing and sampling frequencies shall be as described in the Centralia Design and Development Guidelines.
8. The City provides for the manufacture and installation of street name and regulatory signs at the contractor's/developer's expense. Signs shall be requested at the time construction begins.
9. The contractor shall obtain a right-of-way permit from the Engineering Department prior to doing any construction in the right-of-way.
10. All temporary patches will require application of cold mix asphalt. Cold mix will be maintained daily or as required by the City Engineer to assure a smooth driving surface.
11. Temp steel plates shall be pinned in roadway section with temp transition ramp. Appropriate signage to be installed per MUTCD standards for trench crossings.
12. All patches will be permanently paved within 2 weeks of first opening the trench.

APPROVED BY	REVISED DATE	CITY OF CENTRALIA	
	06-2017	STREET CONSTRUCTION GENERAL NOTES	1 OF 1
CITY ENGINEER			
2022 Standard Drawings			



SANITARY SEWER MAIN INSTALLATION
GENERAL NOTES

1. A pre-construction conference must be held with the City prior to start of construction.
2. Underground utilities shown are for the convenience of the contractor only. It is the contractors responsibility to use the "one-call" telephone (1-800-424-5555) 48 hours before construction is started.
3. All materials and construction shall be in accordance with the current edition of the WSDOT standard specifications for roads, bridges and municipal construction and City of Centralia standards.
4. Erosion control measures shall be taken during construction to prevent siltation of existing and proposed facilities.
5. Pipe for sanitary sewer shall conform to Section 7-17.2 of the current standard specifications for road, bridge and municipal construction published jointly by WSDOT and the State Chapter of APWA and be one of the following:
- a. Ductile iron pipe shall conform to Section 9-05.13 and ANSI A21.51 or AWWA C151 and shall be cement mortar lined. Minimum thickness shall be class 51.
- b. Polyvinyl chloride (PVC) pipe shall conform with the provisions of WSDOT Section 9-05.12. 8"-15" ASTM D 3034, SDR 35 / 18"-24" ASTM F 679
6. The end of laterals shall be marked with a 2x4 wooden stake four feet long (minimum) buried in the ground a depth of three (3) feet (minimum).
7. All laterals shall be laid at 2% minimum except where noted. 6" pipe to property line laterals must be provided to all appropriate properties.
8. All laterals shall be connected to mains with a manufactured wye or fusion tee tap unless otherwise approved by the City Engineer. Lines 12-inch or larger and high flow lines may use tee connections with prior approval.
9. Layout and construction staking will be done by a design engineer or a licensed land surveyor. All vertical control shall be established using the 1988 USGS Datum.
10. All new manholes shall be sixty inches (60") in diameter, Type 1 manholes unless otherwise specified by the City. See standard detail 3-02.
11. Low pressure air test is required on all new sanitary sewer lines (including laterals). Testing shall be per APWA specifications and witnessed by the City.
12. A vacuum test is required on all new manholes and altered manholes.
13. Schedule all tests with the City and allow two (2) working days advance notice.
14. A copy of the T.V. inspection video of the sewer main shall be provided to the City along with the inspection report prior to final acceptance.
15. As-built drawings shall be submitted to the City prior to final acceptance.
16. All necessary easements must be recorded before final acceptance.
17. The contractor is to notify the City two (2) working days prior to the start of construction. All materials must be submitted and approved prior to use.
18. A manhole and clean-out assembly detail shall be submitted prior to construction for the City's approval.
19. On all main extensions, a lateral shall be installed from the main to the right-of-way for all existing residences and for all possible future building lots along the main extension. The actual locations shall be approved by the City of Centralia and adjacent property owners prior to construction.

APPROVED BY	REVISED DATE	CITY OF CENTRALIA	
	06-2023	SEWER MAIN INSTALLATION GENERAL NOTES	1 OF 2
CITY ENGINEER			
2022 Standard Drawings			

DETAIL
N.T.S.



SIDE SEWER REGULATIONS (Ord. 2051)
GENERAL NOTES

1. Any work including installation, replacement and repair, on the sanitary side sewer requires an inspection permit. This must be obtained - in advance of the work - from the City utilities building at 1100 N Tower Ave.
2. Inspection permit fees:
- *Single-family dwelling: \$ 50.00
 - *Multiple-family dwelling: \$ 75.00
 - *Commercial/Industrial: \$ 100.00
 - Alteration, repair and abandonment of existing lateral \$ 50.00
 - *1 & 1 Rehabilitation: No charge-must be approved by Public Works \$ 100.00
 - *After hours or holiday inspections: \$ 50.00
 - *Re-inspection: \$ 100.00
 - Grinder pump connection permit \$ 150.00
 - Grinder pumps commercial or industrial connection
3. For inspection, call the Public Works Office at (360) 330-7512. Inspections will be made 8:00 A.M. - Noon and 1:00 P.M. - 3:00 P.M.
4. "Side Sewer" means that part of the horizontal piping of a drainage system which extends from the end of the building drain and which receives the discharge of the building drain and conveys it to a public sewer, private sewer, individual sewage disposal system or other point of disposal.
5. All costs and expenses incident to the installation and connection, operation and maintenance and replacement of the side sewer shall be borne by the owner.
6. Pipes acceptable for side sewers: polyvinyl chloride(PVC) ASTM D 3034, SDR 35; cast iron soil pipe, federal spec. WWP-401; ductile iron, ANSI A 2151, thickness class 51. Not acceptable for side sewer: black ABS pipe, glued joint pipes, glued fittings.
7. Side sewer for single family dwelling shall be no less than 4" diameter from dwelling to property line and 6" from property line to public sewer. All multiple family, commercial and industrial side sewer lines shall be no less than 6" diameter between main and building. Each building must have a separate side sewer.
8. No 90 degree bends allowed.
9. A cleanout is required within 36" of all buildings and at intervals of not more than 100 feet. Cleanouts shall be extended to within 18" of surface and capped except where surface is paved: in paved area, cleanouts shall be extended flush with surface and plugged with an acceptable threaded metal plug. Laterals shall be straight lines between cleanouts.
10. Backwater valves--- The Uniform Plumbing Code requires backwater valves on building sewers where the finished floor is below the rim of the upstream manhole. Backwater valves, if they are installed, must be located within the building footprint upstream of the cleanout. The city is not responsible for their installation, maintenance, or operation.
11. Lines shall be laid on uniform slope not less than 1/4" per foot for 4" pipe and 1/8" per foot for 6" pipe. Pipe shall be bedded in and covered with suitable fine material. Alignment of both vertical and horizontal shall be straight and true.
12. Minimum cover for side sewers shall be 18" on private property.
13. Side sewer shall be water or air tested for their entire length. Inspection of the test must be witnessed by a Public Works employee before backfill(see#3). (See paragraph 15.10.240. ordinance 2051 for details.)
14. Contractor shall provide 24 hours notice when requesting inspection.

Any questions regarding the above regulations may be directed to the Public Works Office (360) 330-7512

APPROVED BY	REVISED DATE	CITY OF CENTRALIA	
	06-2023	SEWER MAIN INSTALLATION GENERAL NOTES	2 OF 2
CITY ENGINEER			
2022 Standard Drawings			

CITY OF CENTRALIA

PUBLIC WORKS
ENGINEERING DEPT.

1100 N. TOWER AVE
CENTRALIA, WA 98531
P: 360.330.7512 F: 360.330.7516
CITYOFCENTRALIA.COM

SANITARY SEWER
GENERAL NOTES

2025 SANITARY SEWER
PIPE BURSTING AND CIPP
MAIN REPLACEMENT
PW 2025-04

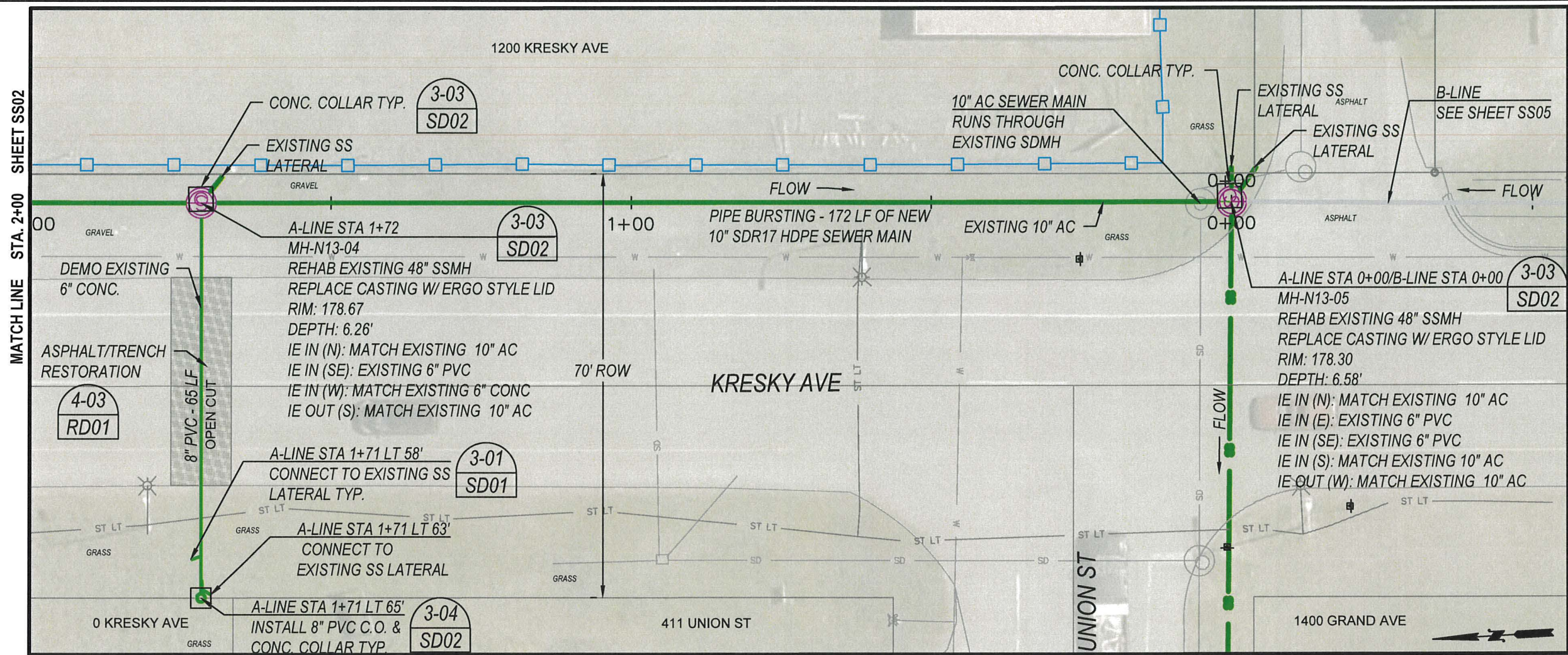


DESIGNED BY: P. PAGE
DRAWN BY: C. TORSTVET
SURVEYED BY: C. TORSTVET
CHECKED BY: P. PAGE

April, 2025

G03

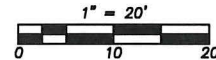
3 OF 25



A-LINE - PIPE BURSTING

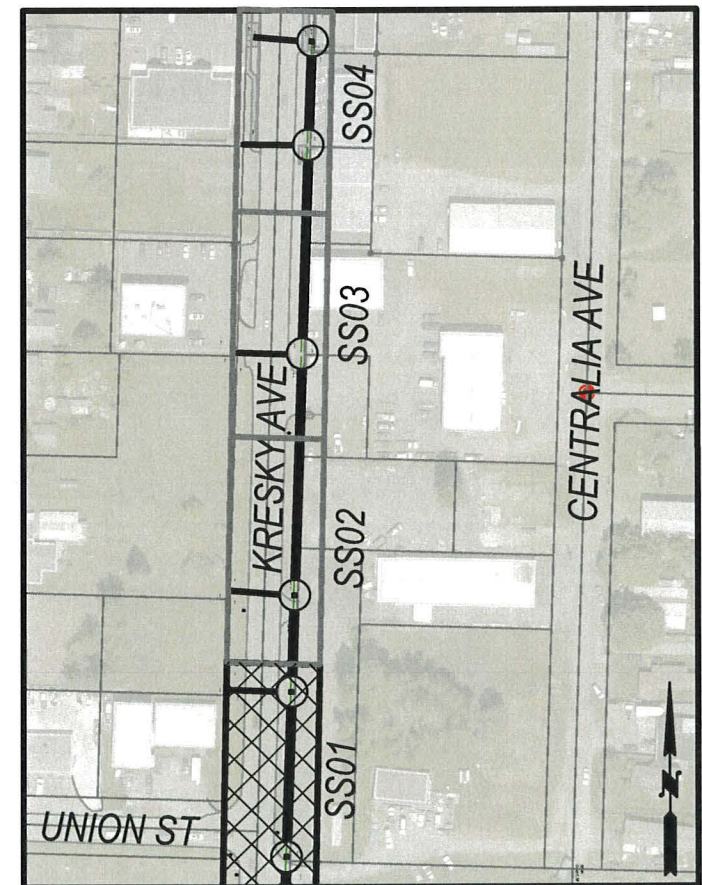
0+00 TO 2+00

PLAN VIEW

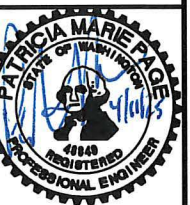


Notes:

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3. Roadway shall remain open to traffic at all times. Submit traffic control plan for review a minimum of 5 working days in advance of work beginning.
4. Protect all existing structures during construction. Contractor to coordinate access to properties during construction. Notify adjacent property owners a minimum of 48 hours prior to access impacts.
5. Fences, blocks and any other landscape materials in the right of way required to be removed to complete work shall be placed neatly on the adjacent property. Use care when removing. Take pictures before/after removal and provide to the engineer.
6. Protect all landscape areas outside of the working area. Restore with topsoil/seed unless otherwise noted.
7. By-pass pumping may be required during pipe bursting activity. By-pass assembly is to be carefully inspected by the contractor to assure no leakage.
8. Service to all active laterals is to remain active at all times during construction work. Mainline shall be in service by the end of the day.



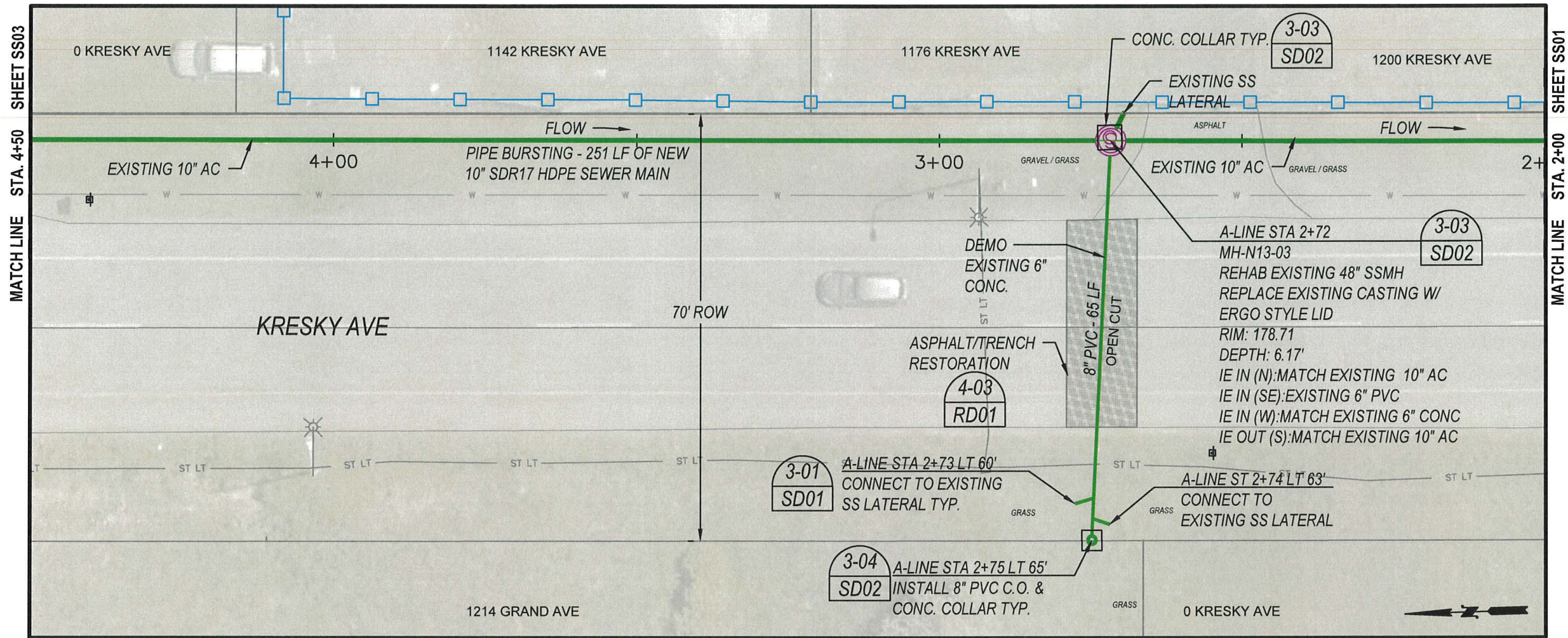
A-LINE SHEET MAP



DESIGNED BY: P. PAGE
 DRAWN BY: C. TORSTVET
 SURVEYED BY: C. TORSTVET
 CHECKED BY: P. PAGE

April, 2025

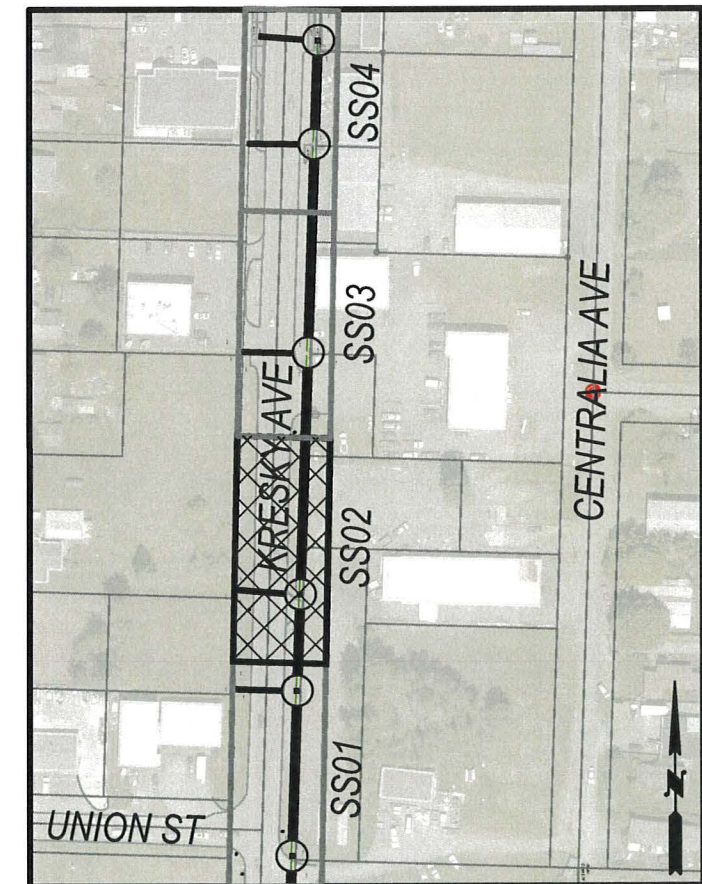
SS01



A-LINE - PIPE BURSTING
2+00 TO 4+50
 PLAN VIEW
 1" = 20'
 0 10 20

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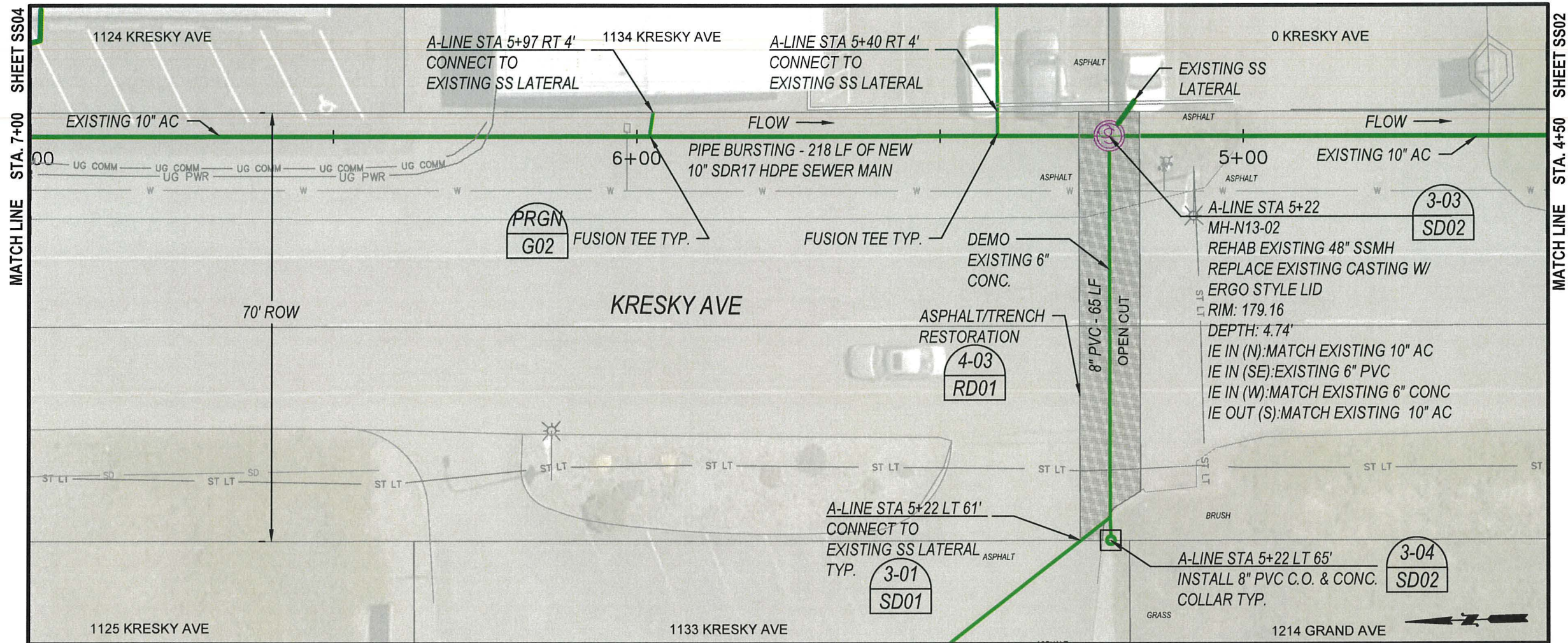
A-LINE SHEET MAP



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April, 2025

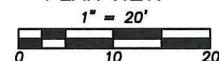
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A-LINE - PIPE BURSTING

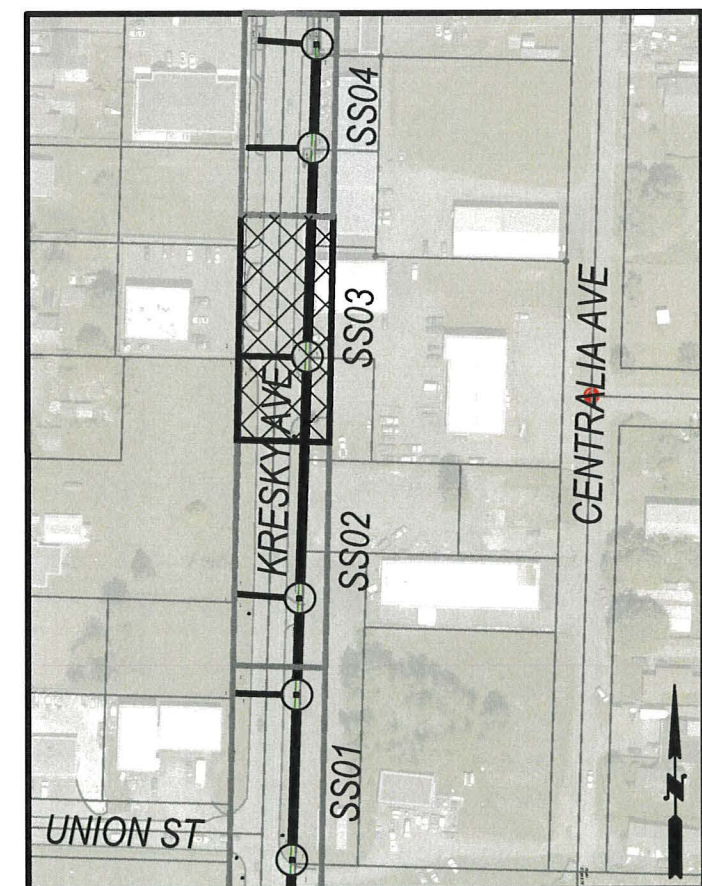
4+50 TO 7+00

PLAN VIEW



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A-LINE SHEET MAP

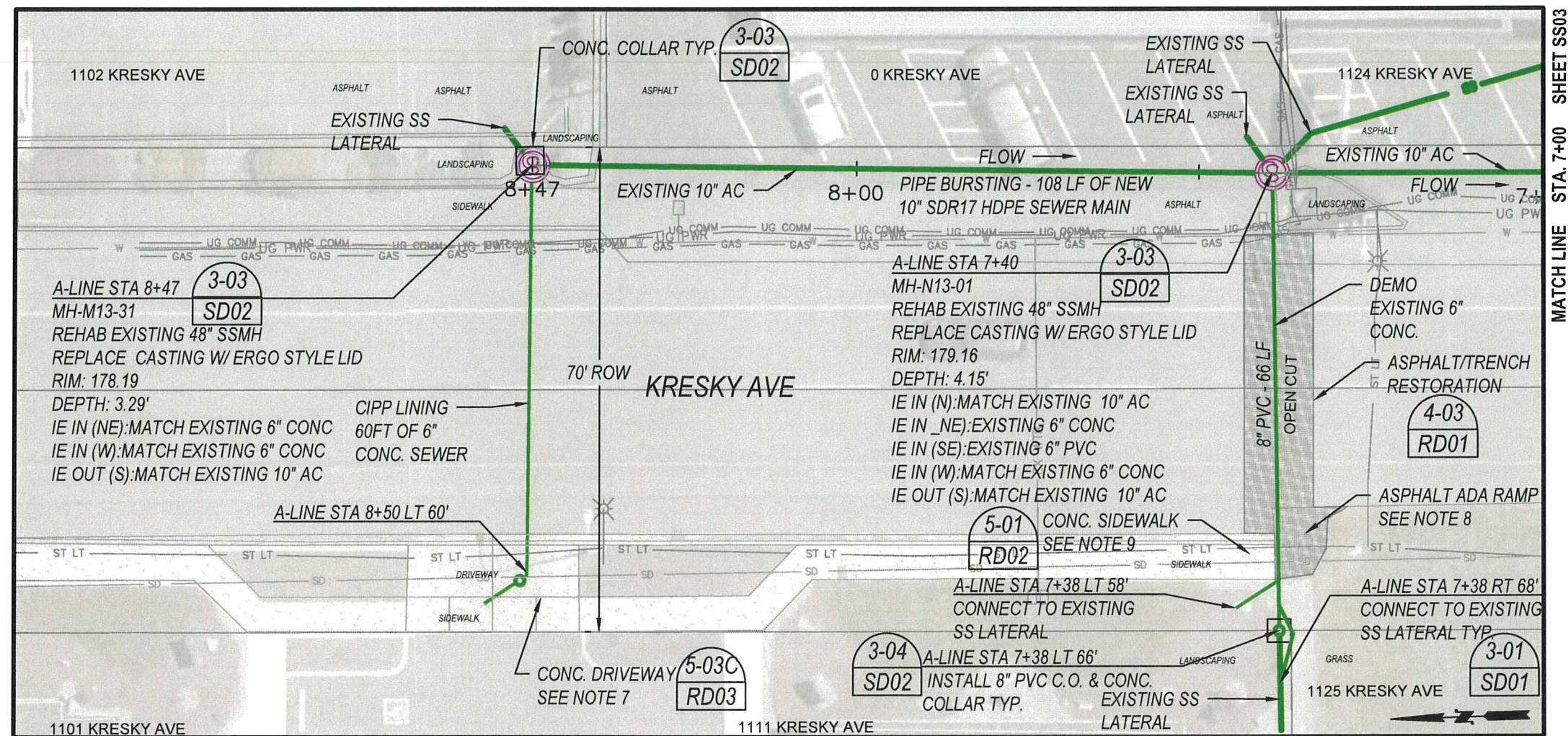


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 DRAWN BY: C. TORSTVET
 SURVEYED BY: C. TORSTVET
 CHECKED BY: P. PAGE

April, 2025

SS03

6 OF 25

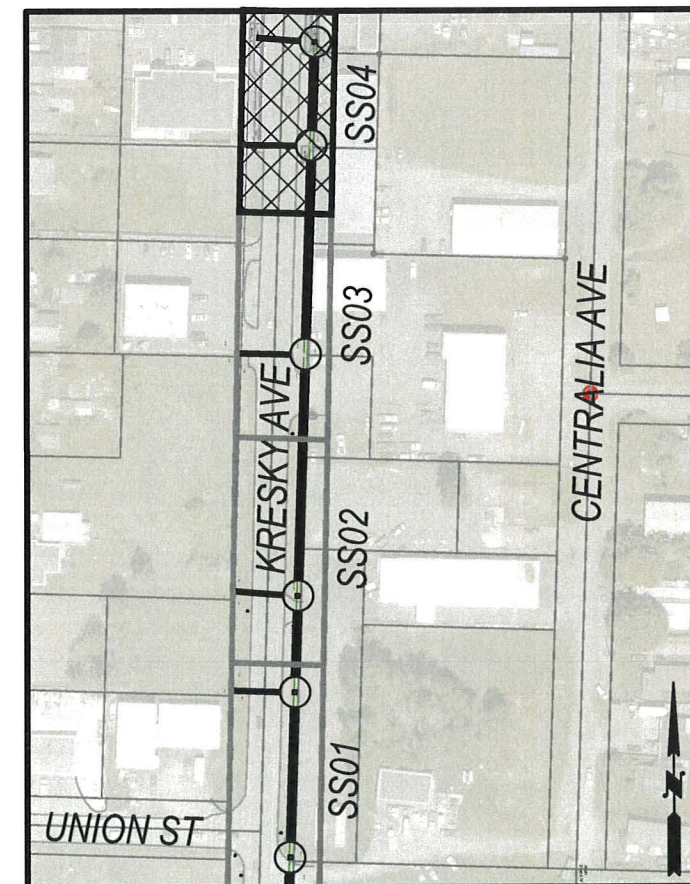


A-LINE - PIPE BURSTING/CIPP LINING 7+00 TO 8+47

PLAN VIEW
1" = 20'
0 10 20

Notes:

- All construction and materials shall be in accordance with the requirements specified in the contract specifications and these plans
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- Roadway shall remain open to traffic at all times. Submit traffic control plan for review a minimum of 5 working days in advance of work beginning.
- Protect all existing structures during construction. Contractor to coordinate access to properties during construction. Notify adjacent property owners a minimum of 48 hours prior to access impacts.
- Fences, blocks and any other landscape materials in the right of way required to be removed to complete work shall be placed neatly on the adjacent property. Use care when removing. Take pictures before/after removal and provide to the engineer.
- Protect all landscape areas outside of the working area. Restore with topsoil/seed unless otherwise noted.
- Private 6" cleanout is located under newly poured driveway and sidewalk. Do not disturb if possible. If sidewalk and or approach must be disturbed, it must be replaced and will be covered under minor change.
- Existing asphalt ADA Ramp to be replaced per ADA standards.
- If existing curb, gutter or sidewalk must be disturbed, it is to be replaced to the nearest joint. Payment will be made under minor change if needed.
- By-pass pumping may be required during pipe bursting activity. By-pass assembly is to be carefully inspected by the contractor to assure no leakage.
- Service to all active laterals is to remain active at all times during construction work. Mainline shall be in service by the end of the day.



A-LINE SHEET MAP



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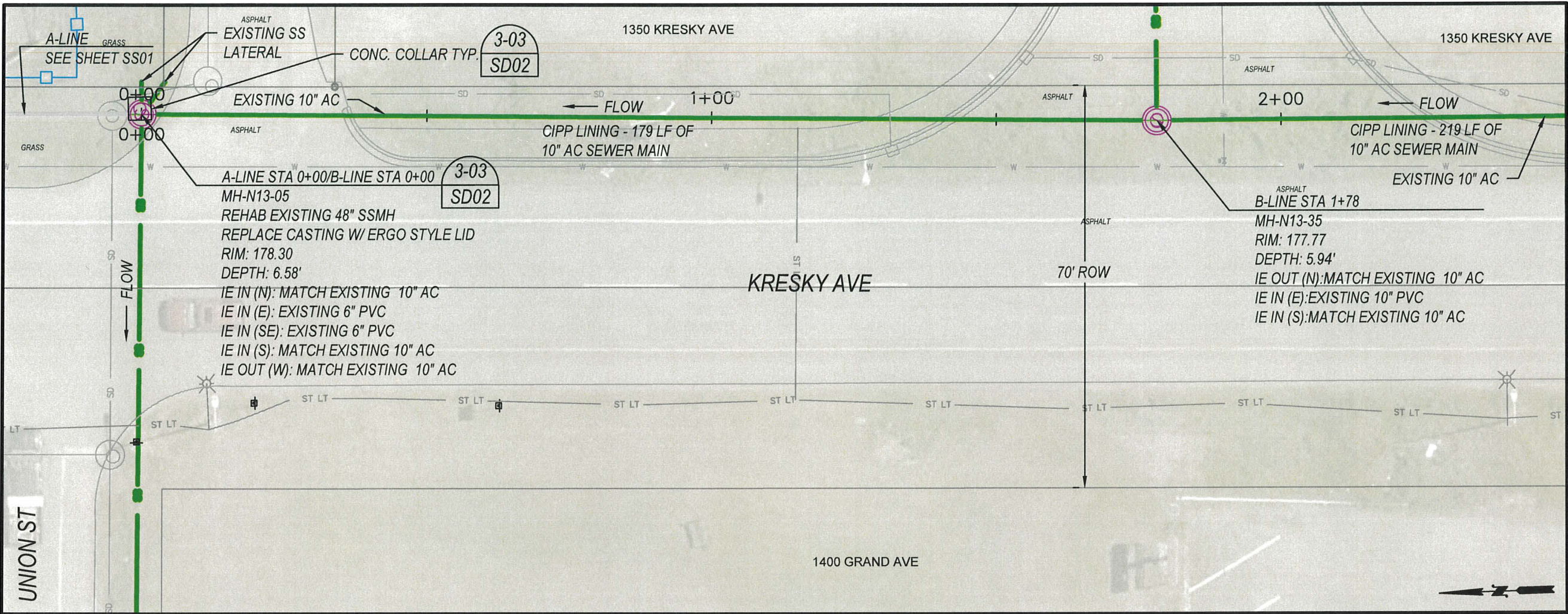
SURVEYED BY: C. TORSTVET

CHECKED BY: P. PAGE

April, 2025

SS04

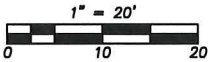
7 OF 25



B-LINE - PIPE BURSTING/CIPP LINING

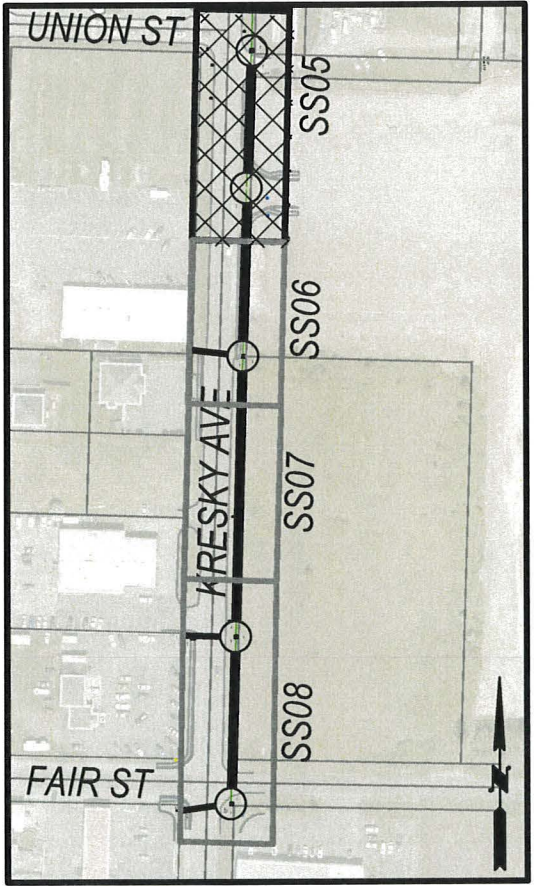
0+00 TO 2+50

PLAN VIEW



Notes:

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3. Roadway shall remain open to traffic at all times. Submit traffic control plan for review a minimum of 5 working days in advance of work beginning.
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B-LINE SHEET MAP

CITY OF CENTRALIA
PUBLIC WORKS
ENGINEERING DEPT.
1100 N. TOWER AVE
CENTRALIA, WA 98531
P: 360.330.7512 F: 360.330.7516
CITYOFCENTRALIA.COM

B-LINE
PIPE BURSTING/CIPP LINING
PLAN VIEW
STA 0+00 TO 2+50

2025 SANITARY SEWER
PIPE BURSTING AND CIPP
MAIN REPLACEMENT
PW 2025-04

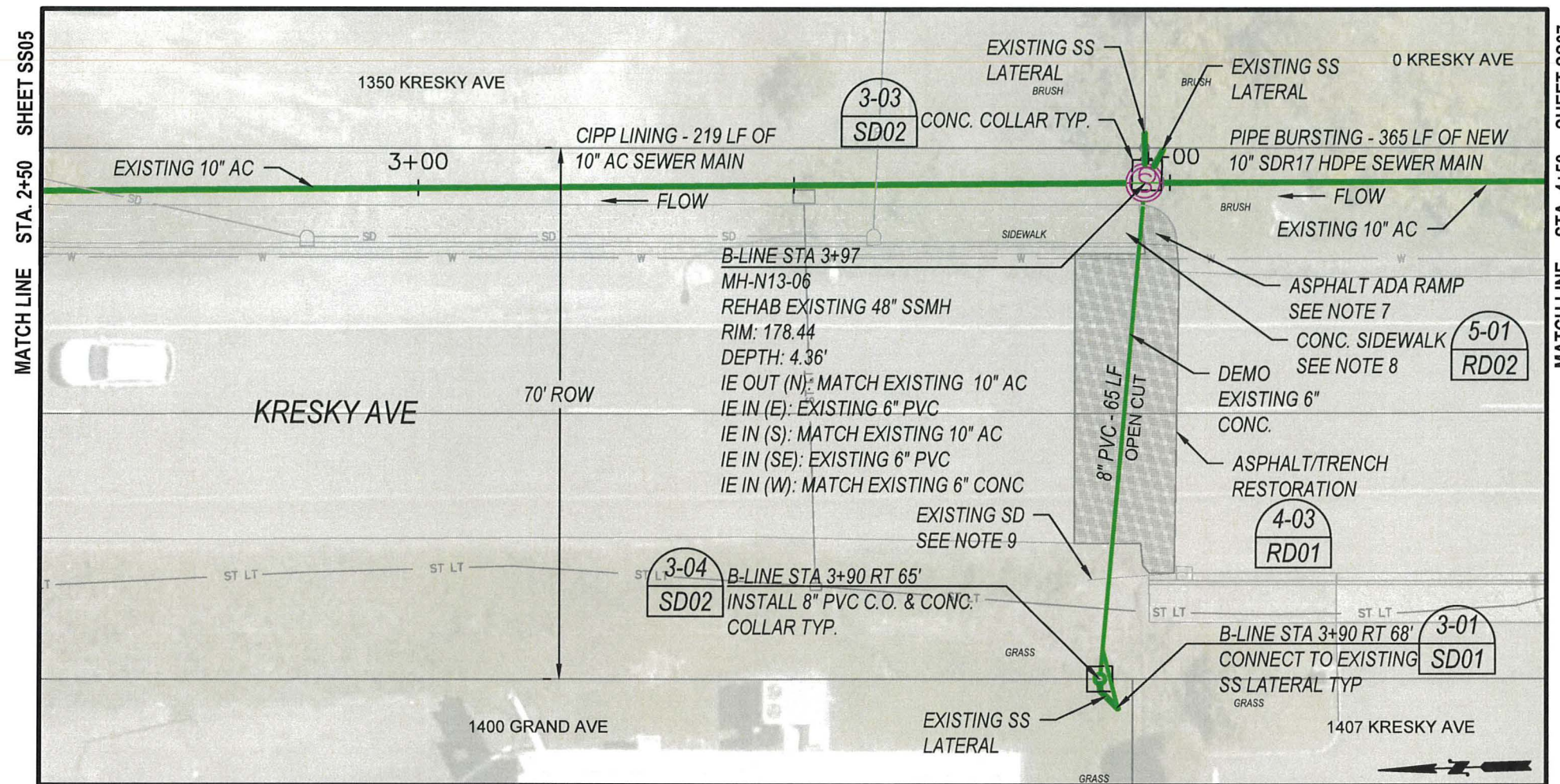


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SURVEYED BY: C. TORSTVET
CHECKED BY: P. PAGE

April, 2025

SS05

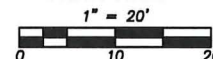
8 OF 25



B-LINE - PIPE BURSTING/CIPP LINING

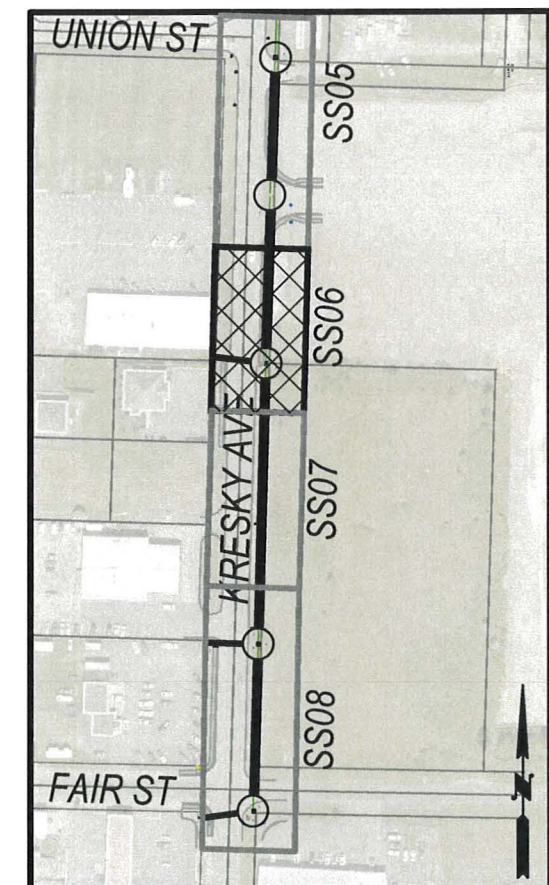
2+50 TO 4+50

PLAN VIEW



Notes:

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7. Existing asphalt ADA Ramp to be replaced per ADA standards.
8. If existing curb, gutter or sidewalk must be disturbed, it is to be replaced to the nearest joint. Payment will be made under minor change if needed.
9. Existing storm drain outfall to storm swale to be replaced if disturbed during construction.
10. By-pass pumping may be required during pipe bursting activity. By-pass assembly is to be carefully inspected by the contractor to assure no leakage.
11. Service to all active laterals is to remain active at all times during construction work. Mainline shall be in service by the end of the day.



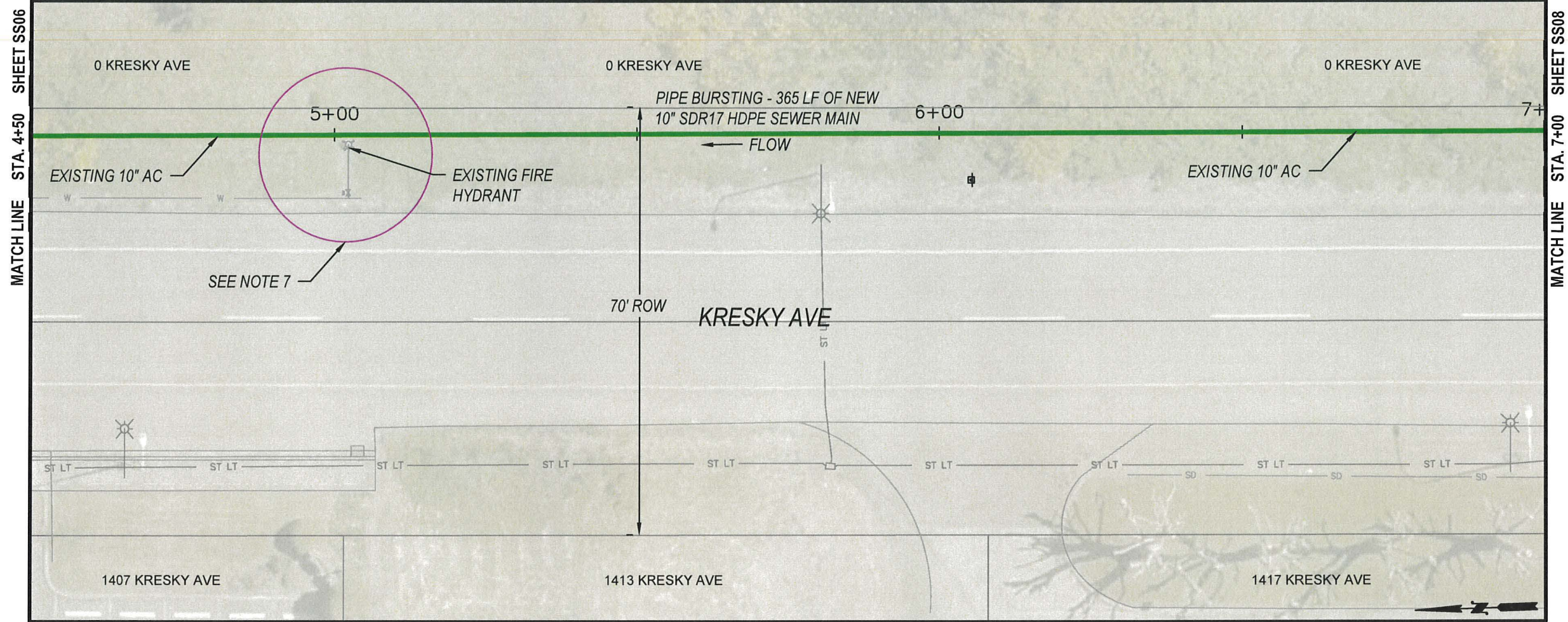
B-LINE SHEET MAP



DESIGNED BY: P. PAGE
 DRAWN BY: C. TORSTVET
 SURVEYED BY: C. TORSTVET
 CHECKED BY: P. PAGE

April, 2025

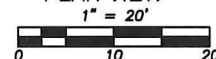
SS06



B-LINE - PIPE BURSTING

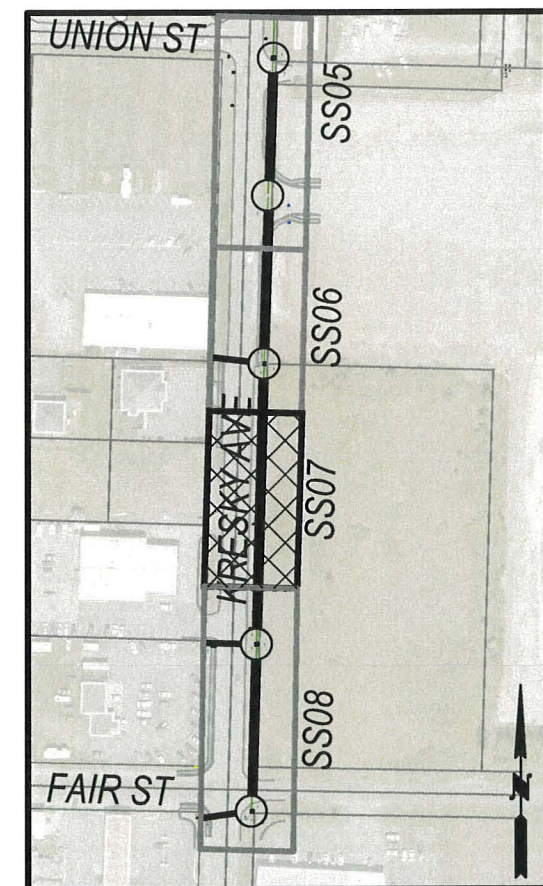
4+50 TO 7+00

PLAN VIEW



Notes:

1. All construction and materials shall be in accordance with the requirements specified in the contract specifications and these plans
2. Existing utilities shown on this plan sheet are for reference only and are not exact. Contractor shall call one-call locate service to determine location of existing utilities prior to construction. Contractor shall field verify utility crossings and connection points by pot holing prior to construction. Any conflicts found will be addressed by the City of Centralia Engineering Dept. Staff.
3. Roadway shall remain open to traffic at all times. Submit traffic control plan for review a minimum of 5 working days in advance of work beginning.
4. Protect all existing structures during construction. Contractor to coordinate access to properties during construction. Notify adjacent property owners a minimum of 48 hours prior to access impacts.
5. Fences, blocks and any other landscape materials in the right of way required to be removed to complete work shall be placed neatly on the adjacent property. Use care when removing. Take pictures before/after removal and provide to the engineer.
6. Protect all landscape areas outside of the working area. Restore with topsoil/seed unless otherwise noted.
7. Potential separation conflict with existing fire hydrant and proposed burst. Existing sewer main may need to be exposed prior to bursting to ensure no damage to the hydrant or water system.
8. By-pass pumping may be required during pipe bursting activity. By-pass assembly is to be carefully inspected by the contractor to assure no leakage.
9. Service to all active laterals is to remain active at all times during construction work. Mainline shall be in service by the end of the day.



B-LINE SHEET MAP



DESIGNED BY: P. PAGE

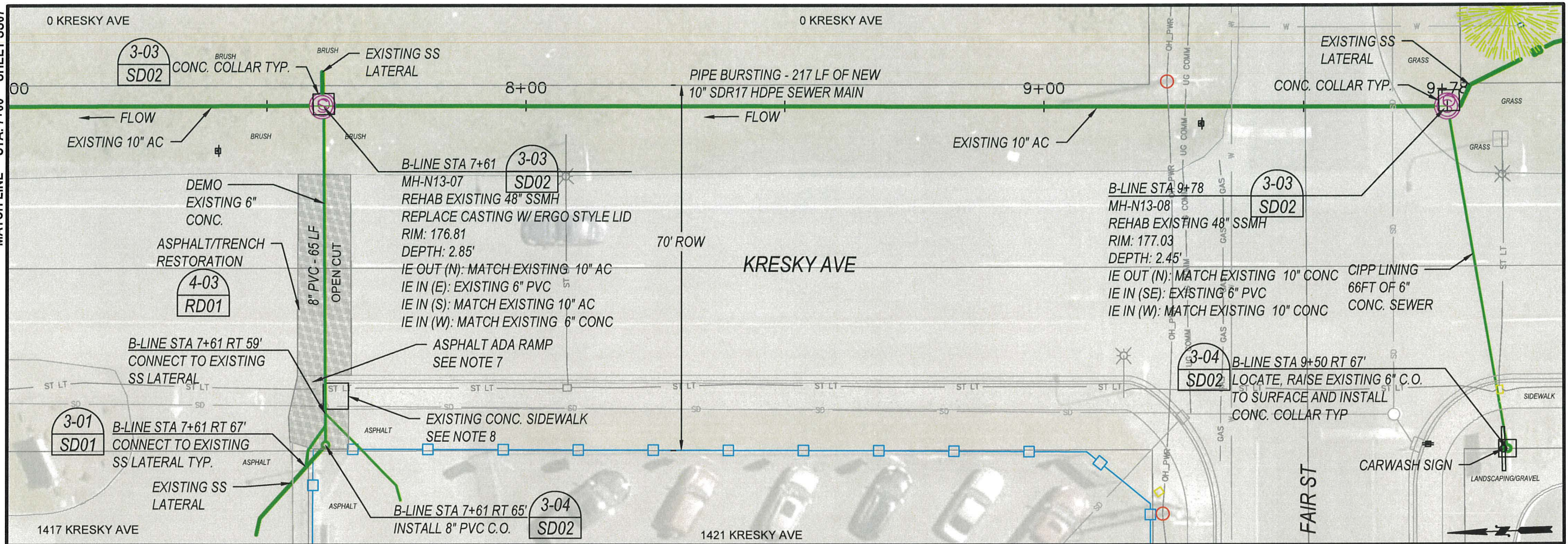
DRAWN BY: C. TORSTVET

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CHECKED BY: P. PAGE

April, 2025

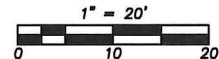
SS07



B-LINE - PIPE BURSTING/CIPP LINING

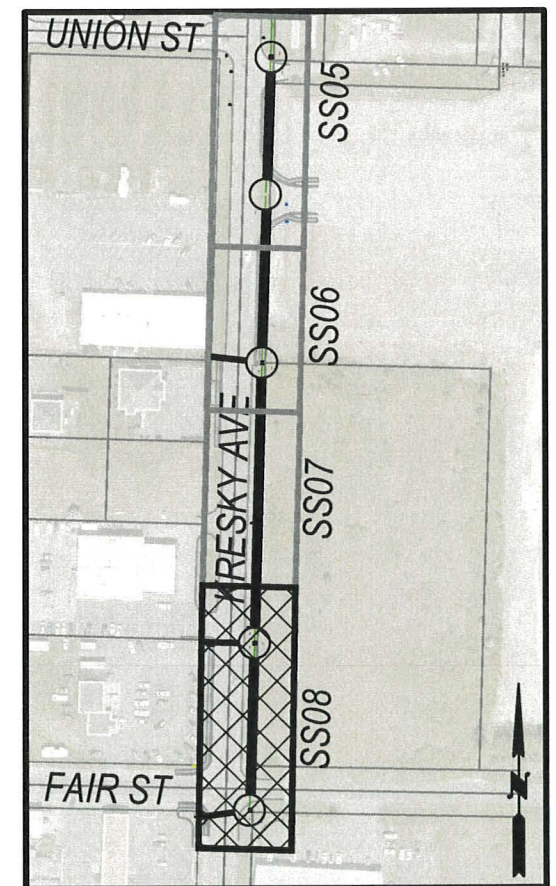
7+00 TO 9+78

PLAN VIEW



Notes:

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6. Protect all landscape areas outside of the working area. Restore with topsoil/seed unless otherwise noted.
7. Existing asphalt ADA Ramp to be replaced per ADA standards.
8. If existing curb, gutter or sidewalk must be disturbed, it is to be replaced to the nearest joint. Payment will be made under minor change if needed.
9. By-pass pumping may be required during pipe bursting activity. By-pass assembly is to be carefully inspected by the contractor to assure no leakage.
10. Service to all active laterals is to remain active at all times during construction work. Mainline shall be in service by the end of the day.

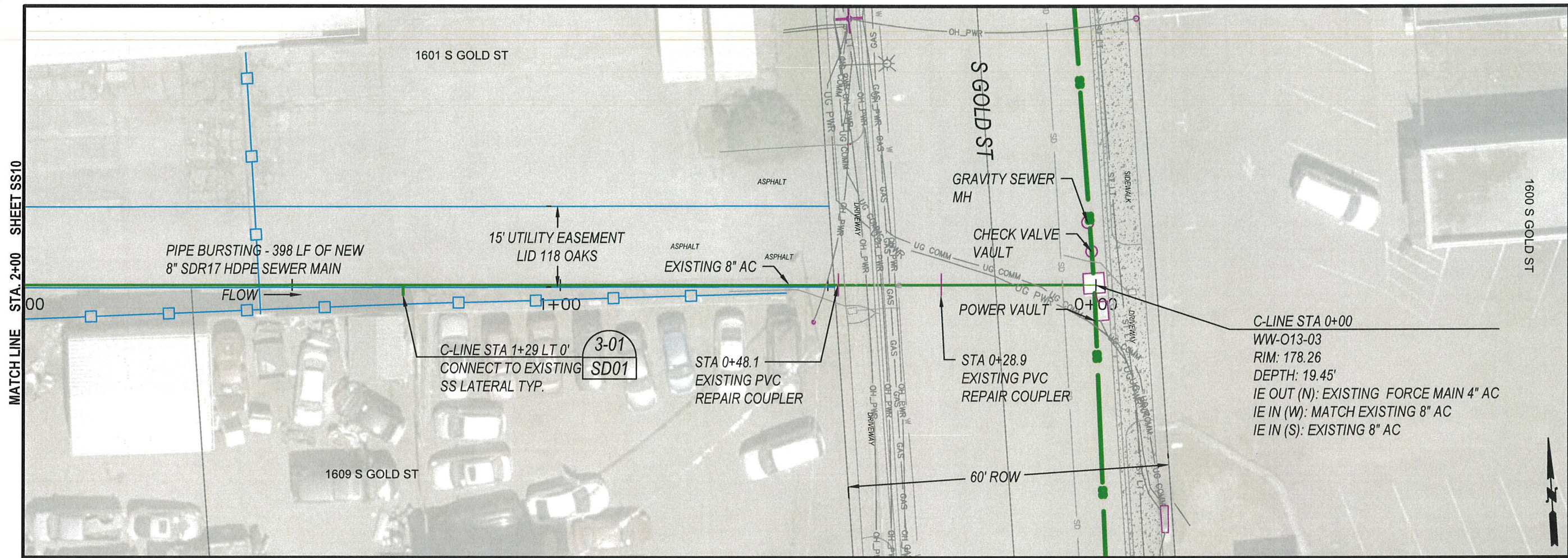


B-LINE SHEET MAP



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 April, 2025

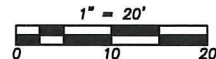
SS08



C-LINE - PIPE BURSTING

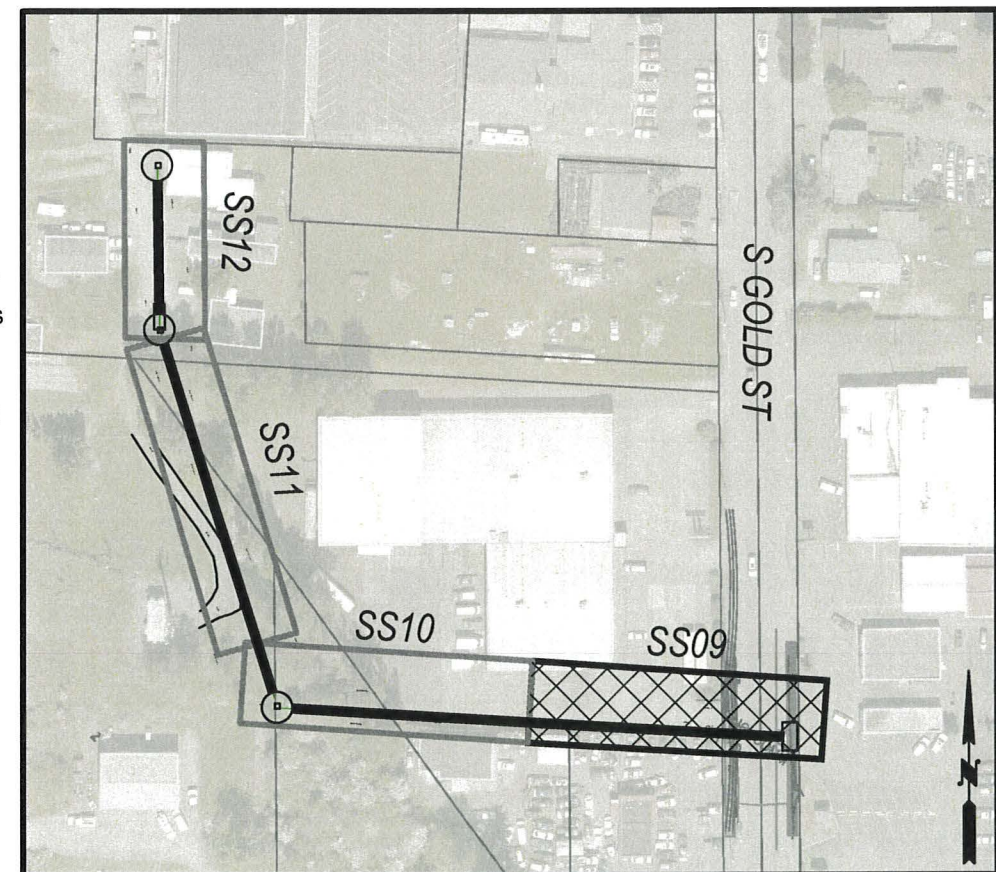
0+00 TO 2+00

PLAN VIEW

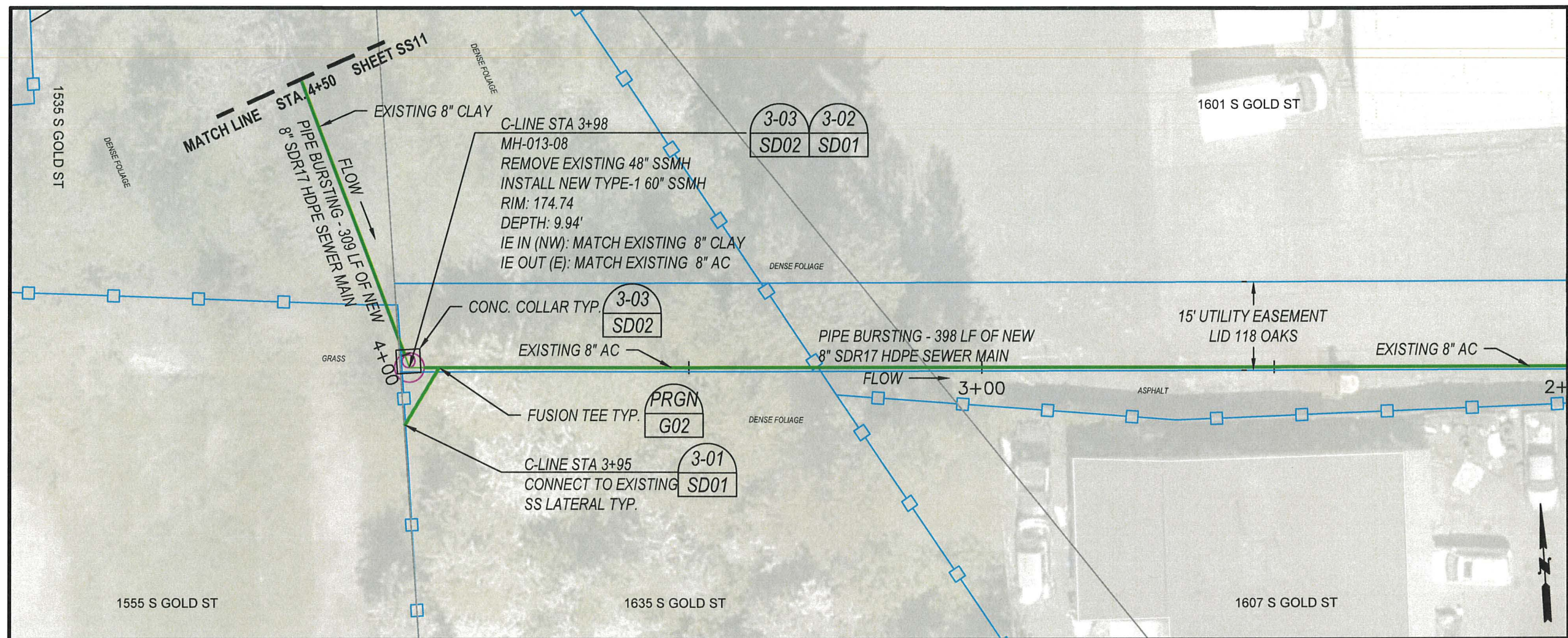


Notes:

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6. Protect all landscape areas outside of the working area. Restore with topsoil/seed unless otherwise noted.
7. Existing asphalt ADA Ramp to be replaced per ADA standards.
8. If existing curb, gutter or sidewalk must be disturbed, it is to be replaced to the nearest joint
9. Any work within WW-O13-03 will need to be coordinated with the City of Centralia at minimum 5 business days in advance.
10. Pull pit for connection into WW-O13-03 will not be allowed. Pipe bursting is to be done pneumatically from within WW-O13-03.
11. Connection is to be made with HDPE sand collar and patched with approved grout.
12. WW-O13-03 is coated with epoxy, any damage to the coated surface will be repaired with Ravens 405.
13. Connections to the mainline will be made by fusion tee. See sheet G02 Pipe Bursting General Notes.
14. By-pass pumping may be required during pipe bursting activity. By-pass assembly is to be carefully inspected by the contractor to assure no leakage.
15. Service to all active laterals is to remain active at all times during construction work. Mainline shall be in service by the end of the day.



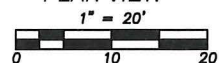
C-LINE SHEET MAP



C-LINE - PIPE BURSTING

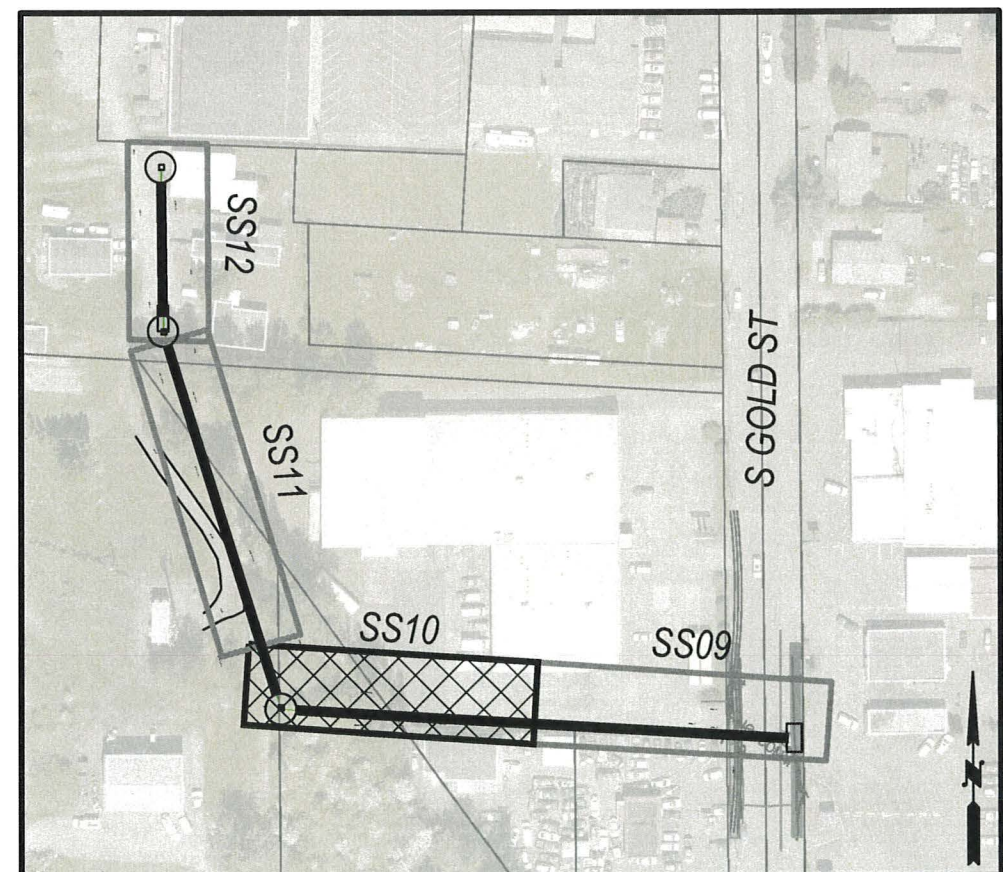
2+00 TO 4+50

PLAN VIEW



Notes:

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6. Protect all landscape areas outside of the working area. Restore with topsoil/seed unless otherwise noted.
7. C-line STA 3+00 to 7+00 runs through a heavily forested area. Removal of trees may be necessary and will be paid under minor change.
8. Connections to the mainline will be made by fusion tee. See sheet G02 Pipe Bursting General Notes.
9. By-pass pumping may be required during pipe bursting activity. By-pass assembly is to be carefully inspected by the contractor to assure no leakage.
10. Service to all active laterals is to remain active at all times during construction work. Mainline shall be in service by the end of the day.
11. Pot hole and verify existing pipe IE's prior to ordering new 60" manholes.



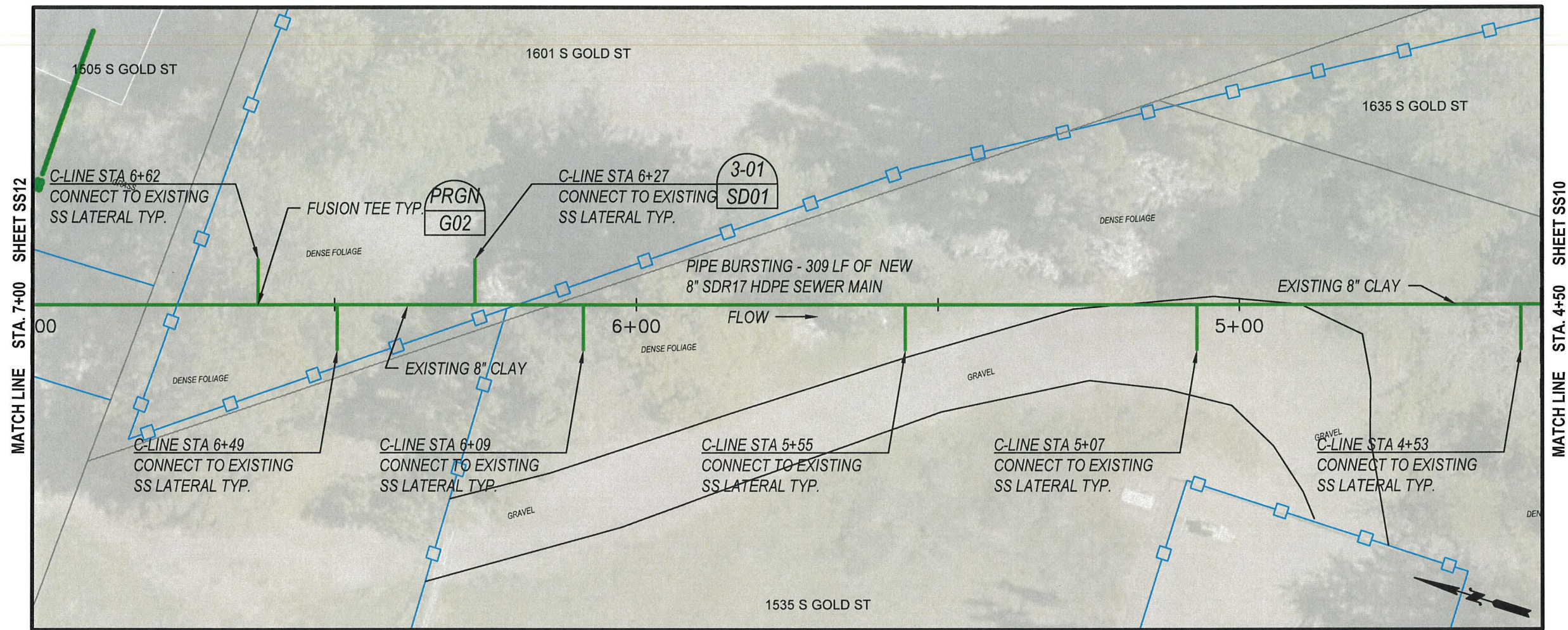
C-LINE SHEET MAP



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 SURVEYED BY: C. TORSTVET
 CHECKED BY: P. PAGE

April, 2025

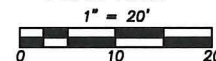
SS10



C-LINE - PIPE BURSTING

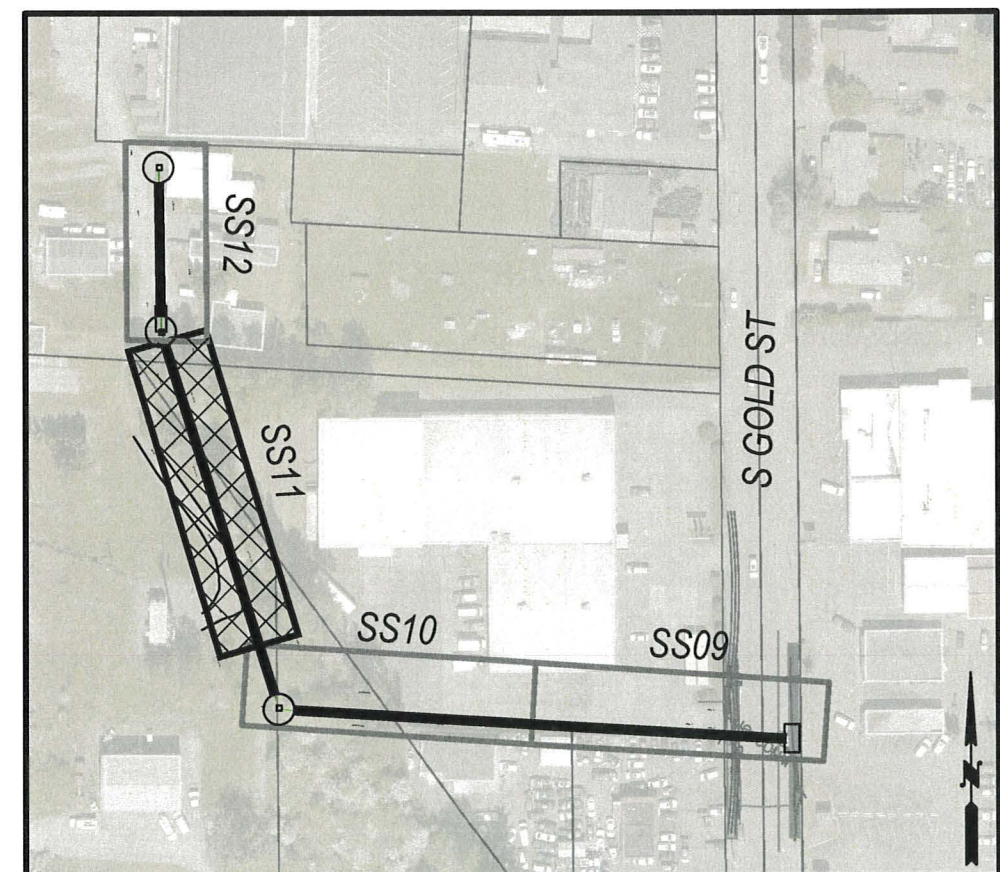
4+50 TO 7+00

PLAN VIEW



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7. C-line STA 3+00 to 7+00 runs through a heavily forested area. Removal of trees may be necessary and will be paid under minor change.
8. Connections to the mainline will be made by fusion tee. See sheet G02 Pipe Bursting General Notes
9. By-pass pumping may be required during pipe bursting activity. By-pass assembly is to be carefully inspected by the contractor to assure no leakage.
10. Service to all active laterals is to remain active at all times during construction work. Mainline shall be in service by the end of the day.
11. Pot hole and verify existing pipe IE's prior to ordering new 60" manholes.

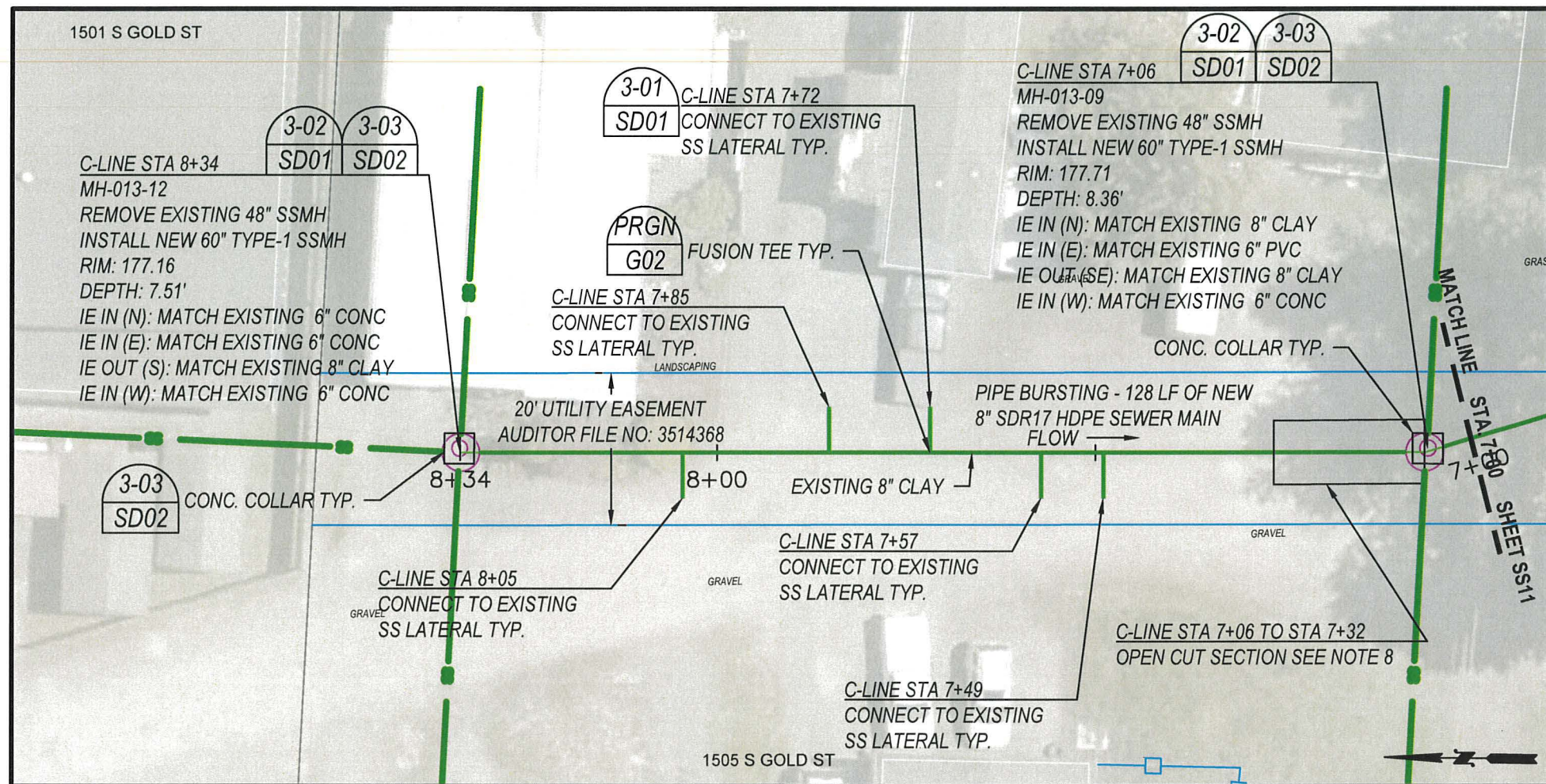


C-LINE SHEET MAP



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 SURVEYED BY: C. TORSTVET
 CHECKED BY: P. PAGE
 April, 2025

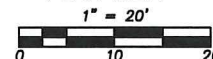
SS11



C-LINE - PIPE BURSTING/OPEN CUT

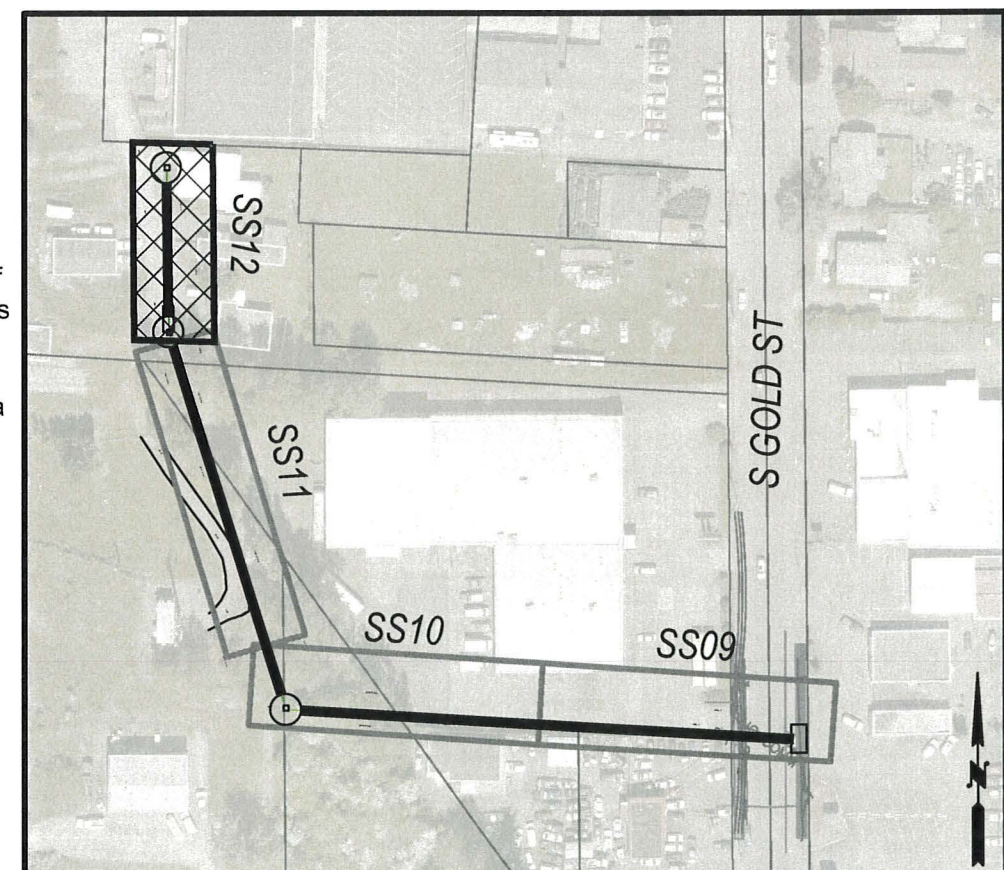
7+00 TO 8+34

PLAN VIEW



Notes:

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6. Protect all landscape areas outside of the working area. Restore with topsoil/seed unless otherwise noted.
7. Connections to the mainline will be made by fusion tee. See sheet G02 Pipe Bursting General Notes.
8. Severe sag in existing 8" clay STA 7+06 to STA 7+32. Open cut section of pipe to correct sag prior to pipe bursting.
9. By-pass pumping may be required during pipe bursting activity. By-pass assembly is to be carefully inspected by the contractor to assure no leakage.
10. Service to all active laterals is to remain active at all times during construction work. Mainline shall be in service by the end of the day.
11. Pot hole and verify existing pipe IE's prior to ordering new 60" manholes.

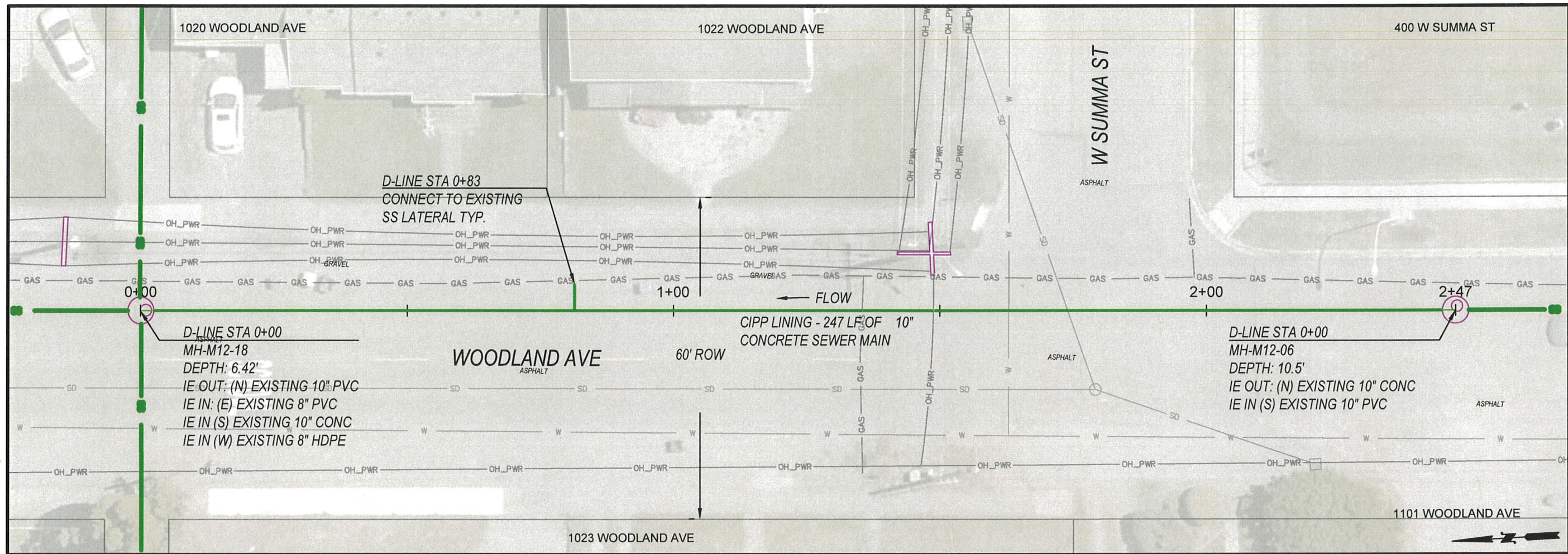


C-LINE SHEET MAP



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CHECKED BY: P. PAGE
April, 2025

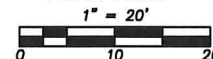
SS12



D-LINE - CIPP LINING

0+00 TO 2+50

PLAN VIEW



Notes:

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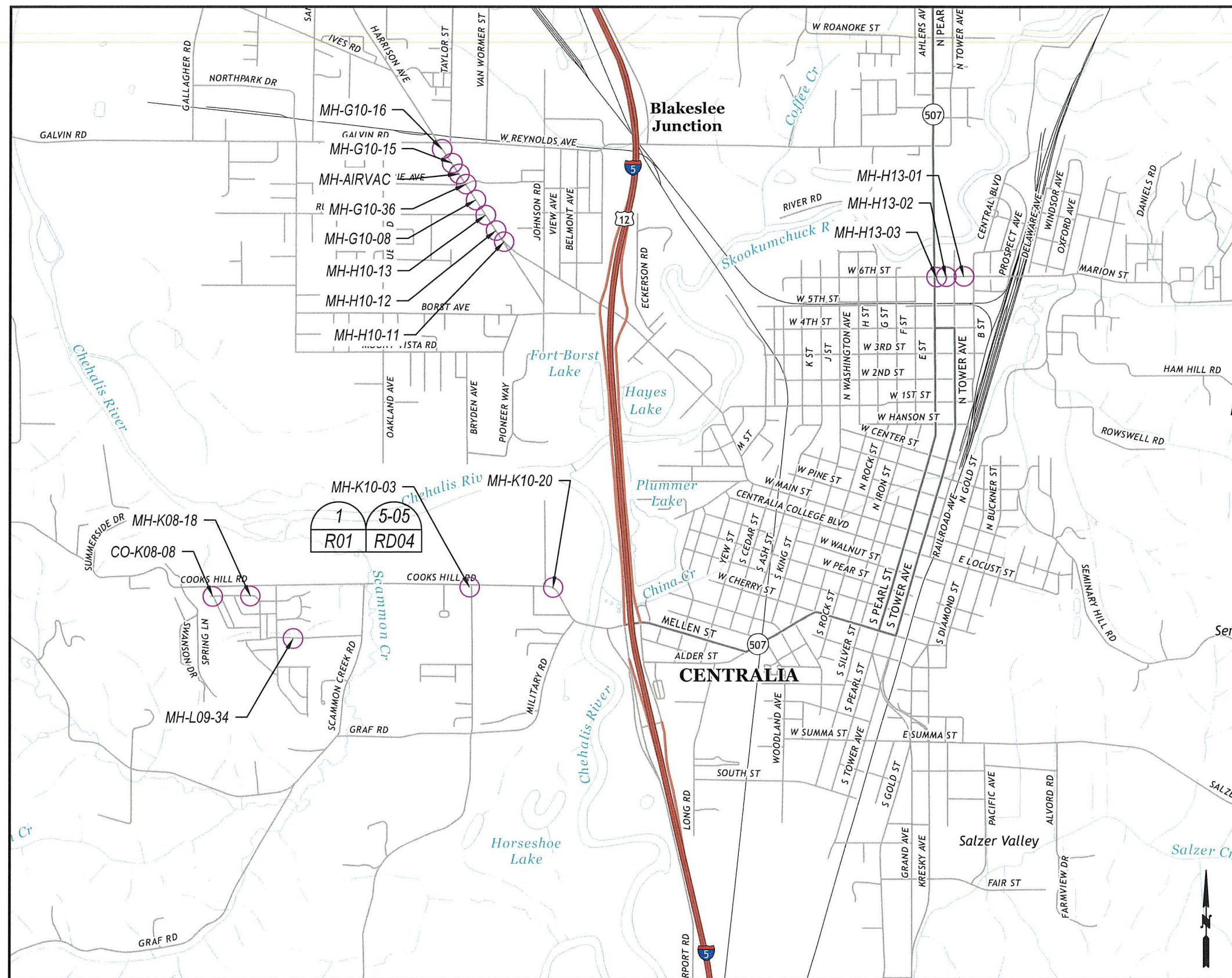
SURVEYED BY: C. TORSTVET

CHECKED BY: P. PAGE

April, 2025

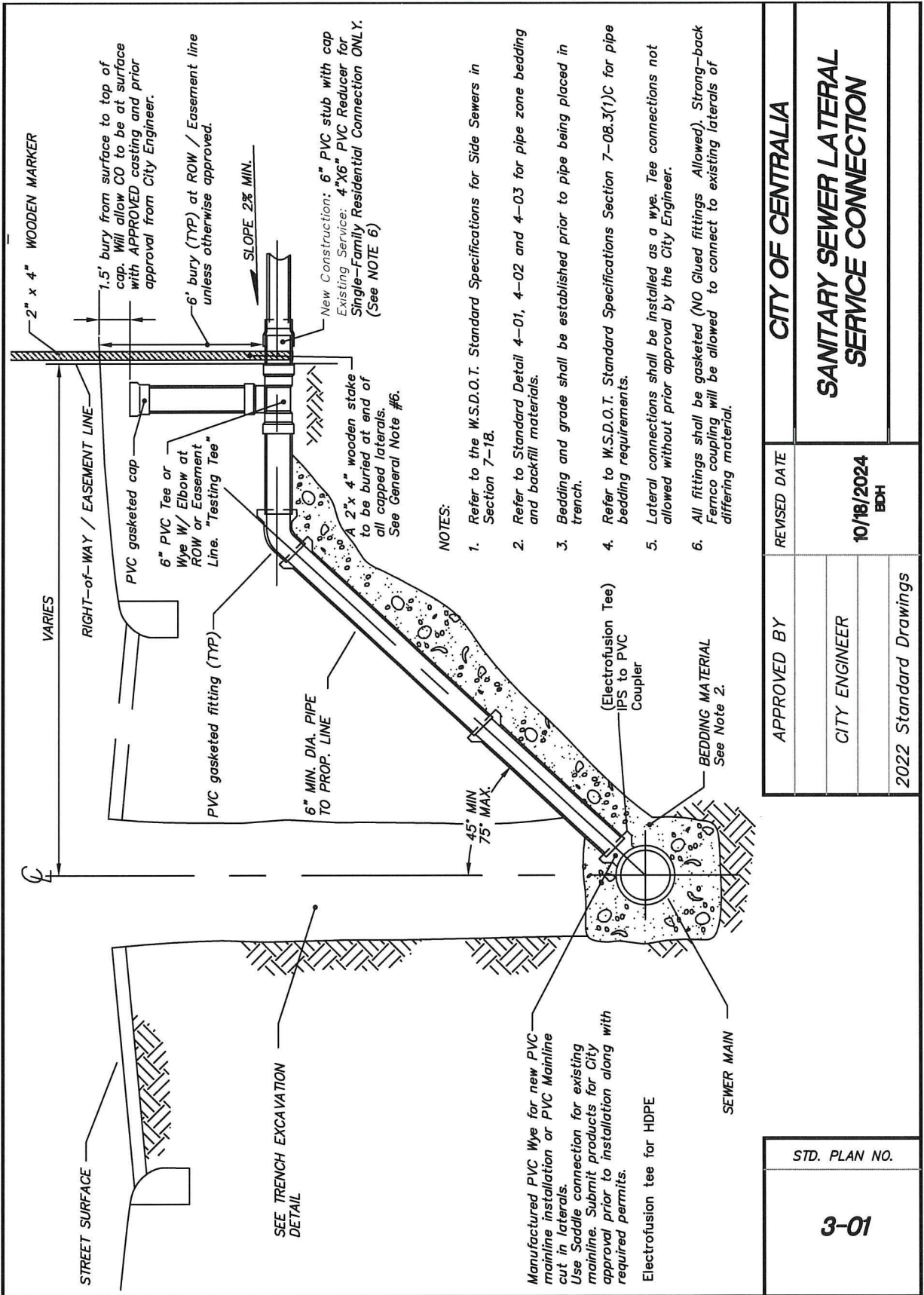
SS13

16 OF 25



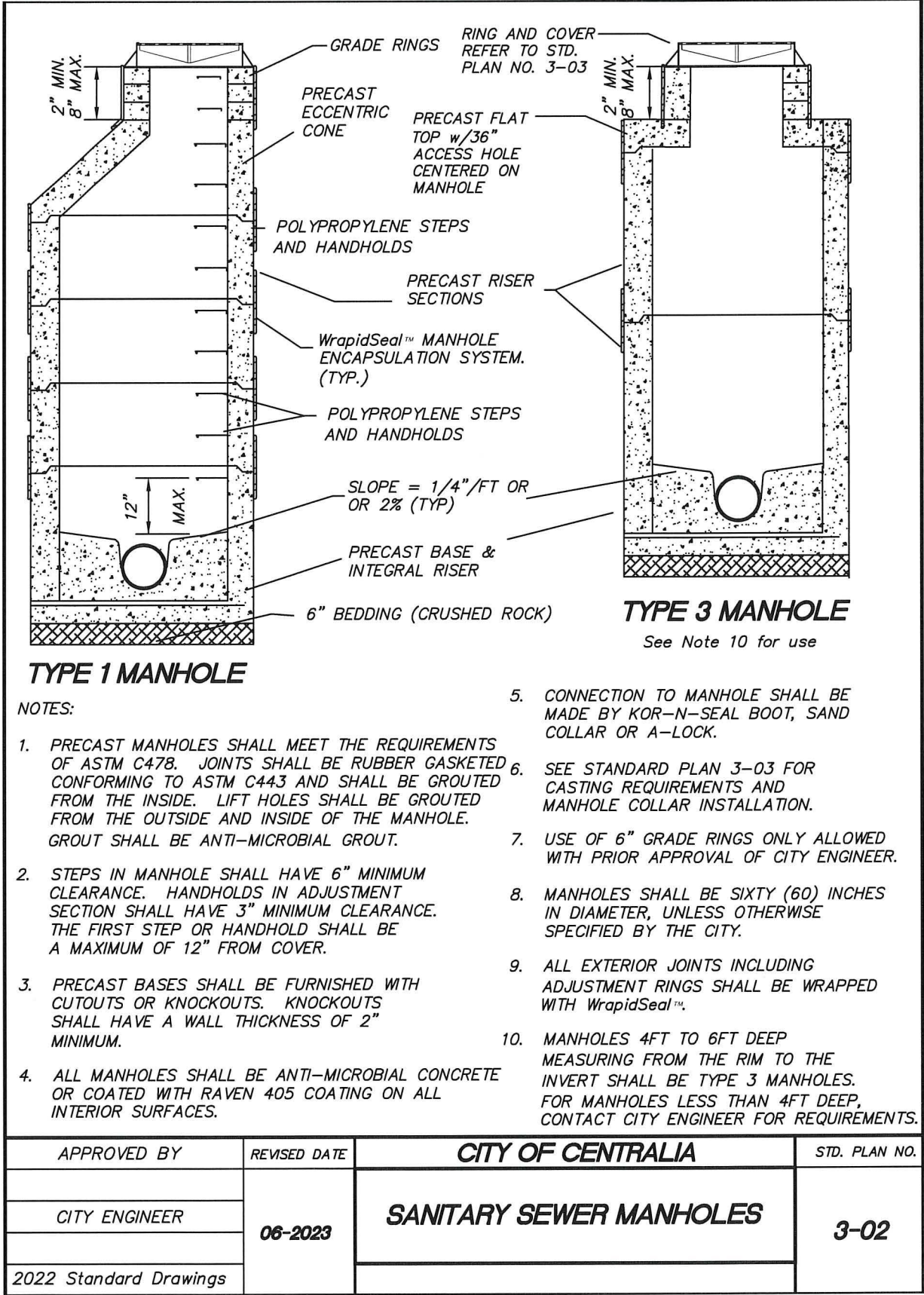
MANHOLE NOTES	
SSMH #	DESCRIPTION
MH-K10-20	REMOVE AND REPLACE EXISTING CASTING, TRAFFIC MAY BE A CONCERN
MH-K10-03	BURIED UNDER ADA RAMP LOCATE, ADJUST CASTING TO GRADE AND RE-INSTALL ADA RAMP
CO-K08-08	C.O. IS BROKEN AND BURIED. LOCATE, REPAIR AND SET TO GRADE
MH-K08-18	BURIED, ADJUST CASTING TO GRADE
MH-L09-34	BURIED, ADJUST CASTING TO GRADE
MH-G10-16	ASPHALT COLLAR BROKEN, DIG OUT 18", CDF AND REPAVE
MH-G10-15	ASPHALT COLLAR BROKEN, DIG OUT 18", CDF AND REPAVE
MH-G10-36	ASPHALT COLLAR BROKEN, DIG OUT 18", CDF AND REPAVE
AIR. VAC	ASPHALT COLLAR BROKEN, DIG OUT 18", CDF AND REPAVE
MH-G10-08	ASPHALT COLLAR BROKEN, DIG OUT 18", CDF AND REPAVE
MH-H10-13	ASPHALT COLLAR BROKEN, DIG OUT 18", CDF AND REPAVE
MH-H10-12	ASPHALT COLLAR BROKEN, DIG OUT 18", CDF AND REPAVE
MH-H10-11	ASPHALT COLLAR BROKEN, DIG OUT 18", CDF AND REPAVE
MH-H13-03	REMOVE AND REPLACE EXISTING CASTING
MH-H13-02	REMOVE AND REPLACE EXISTING CASTING
MH-H13-01	REMOVE AND REPLACE EXISTING CASTING

- ## Notes:
1. See sheet SD02 detail 3-03 for manhole casting replacement and collar repair
 2. See sheet SD02 detail 3-04 for cleanout replacement
 3. Adjust settled manhole castings to finished grade as needed.
 4. Inspection of each location is required prior to re-construction.



DETAIL
N.T.S.

3-01
SD01

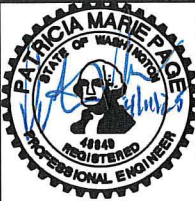


DETAIL
N.T.S.

3-02
SD01

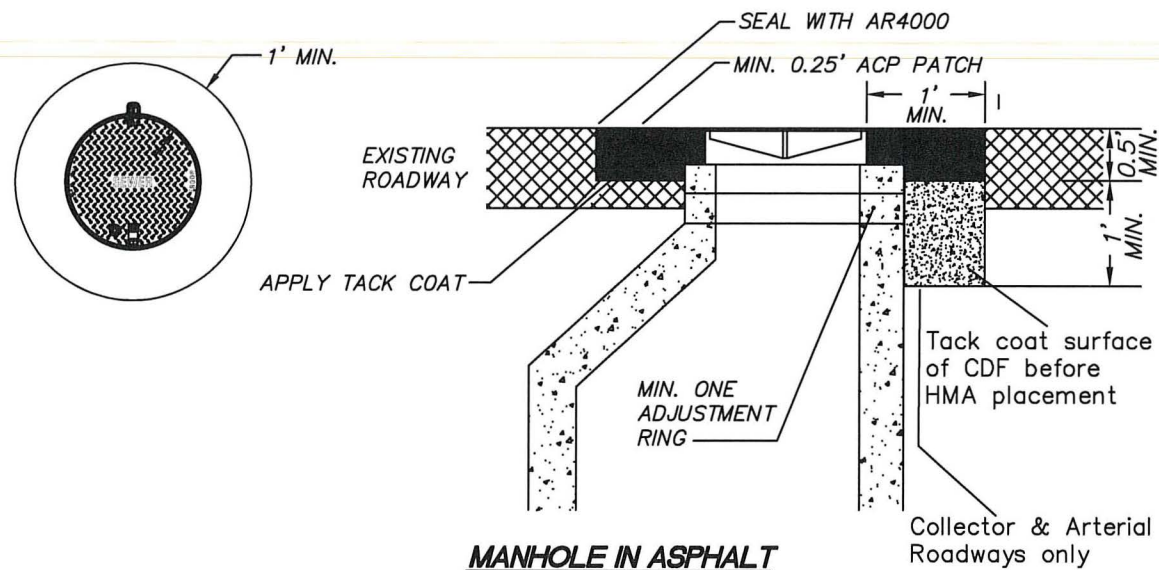
SANITARY SEWER
LATERAL SERVICE DETAILS
MANHOLE DETAILS

2025 SANITARY SEWER
PIPE BURSTING AND CIPP
MAIN REPLACEMENT
PW 2025-04

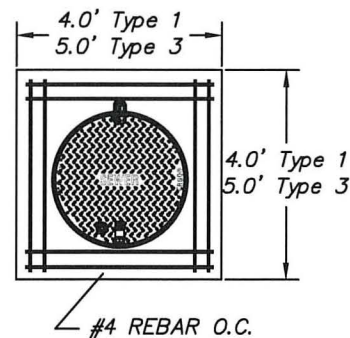


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SURVEYED BY: C. TORSTVET
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April, 2025

SD01



MANHOLE IN ASPHALT



MANHOLE OUTSIDE ASPHALT

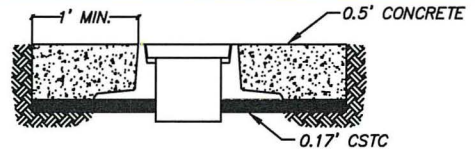
NOTES:

1. ON MANHOLE OUTSIDE ASPHALT ADD REINFORCING STEEL AS SHOWN ABOVE. DEFORMED BAR TO MEET ASTM A615 GRADE 60 FY=60,000 P.S.I.
2. TYPE 1 MANHOLE COVER AND FRAME SHALL BE ERGO 24 4" or 7" TALL CAM LOCKING HINGED MANHOLE ASSEMBLY, SEWER P/N #00104043L02, #00104043L03
3. TYPE 3 MANHOLE COVER AND FRAME SHALL BE ERGO XL 6" TALL CAM LOCKING HINGED MANHOLE ASSEMBLY, SEWER P/N #41600527L02

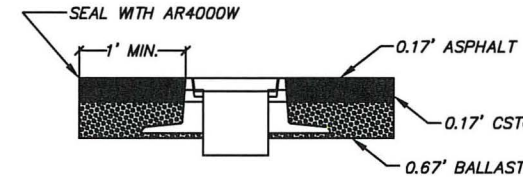
APPROVED BY	REVISED DATE	CITY OF CENTRALIA	STD. PLAN NO.
CITY ENGINEER	06-2023	MANHOLE COLLAR	3-03
2022 Standard Drawings			

DETAIL
N.T.S.

3-03
SD02



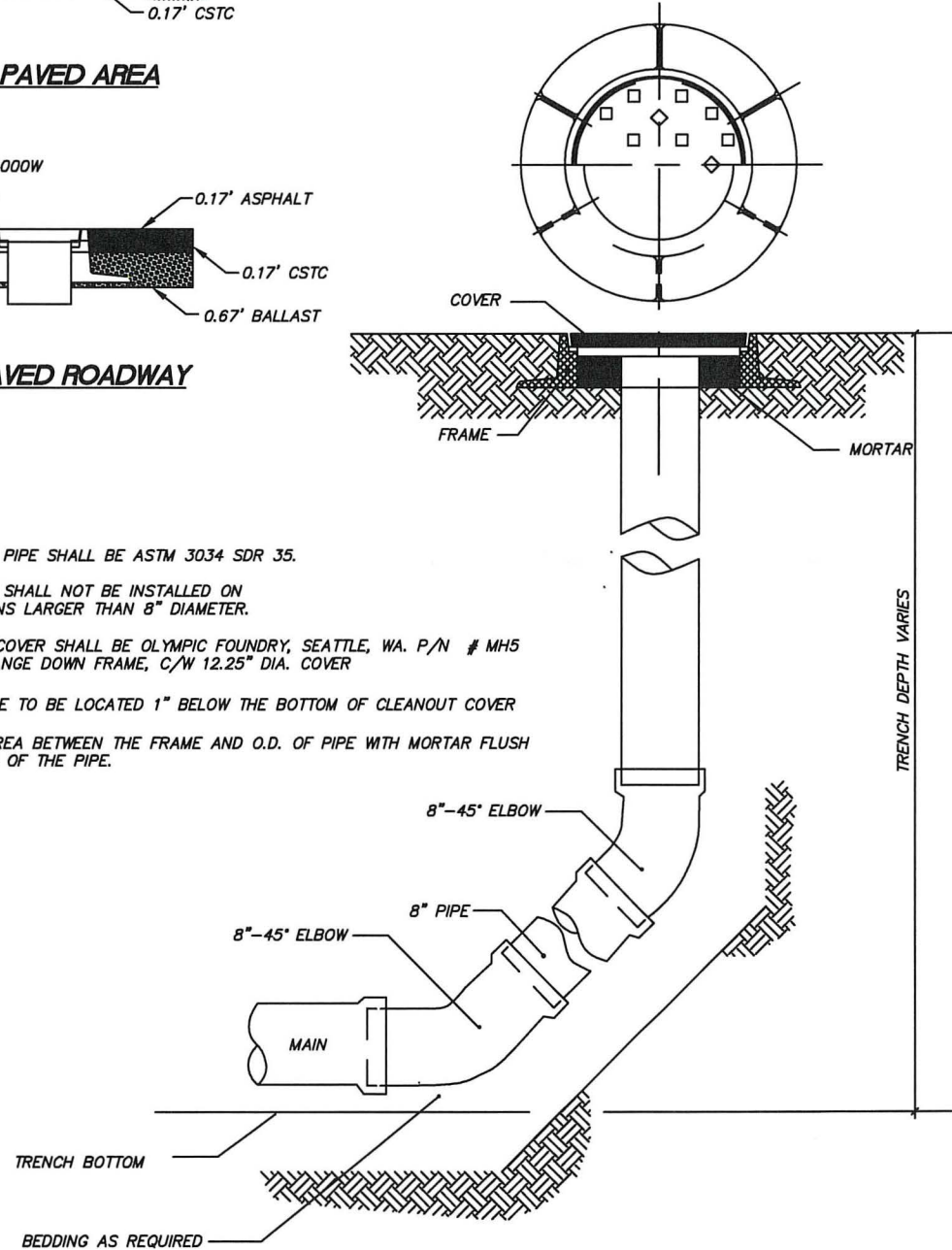
OUTSIDE PAVED AREA



INSIDE PAVED ROADWAY

NOTES:

1. ALL SEWER PIPE SHALL BE ASTM 3034 SDR 35.
2. CLEANOUTS SHALL NOT BE INSTALLED ON SEWER MAINS LARGER THAN 8" DIAMETER.
3. CLEANOUT COVER SHALL BE OLYMPIC FOUNDRY, SEATTLE, WA. P/N # MH5 11" x 4" FLANGE DOWN FRAME, C/W 12.25" DIA. COVER
4. END OF PIPE TO BE LOCATED 1" BELOW THE BOTTOM OF CLEANOUT COVER
5. FILL THE AREA BETWEEN THE FRAME AND O.D. OF PIPE WITH MORTAR FLUSH TO THE END OF THE PIPE.



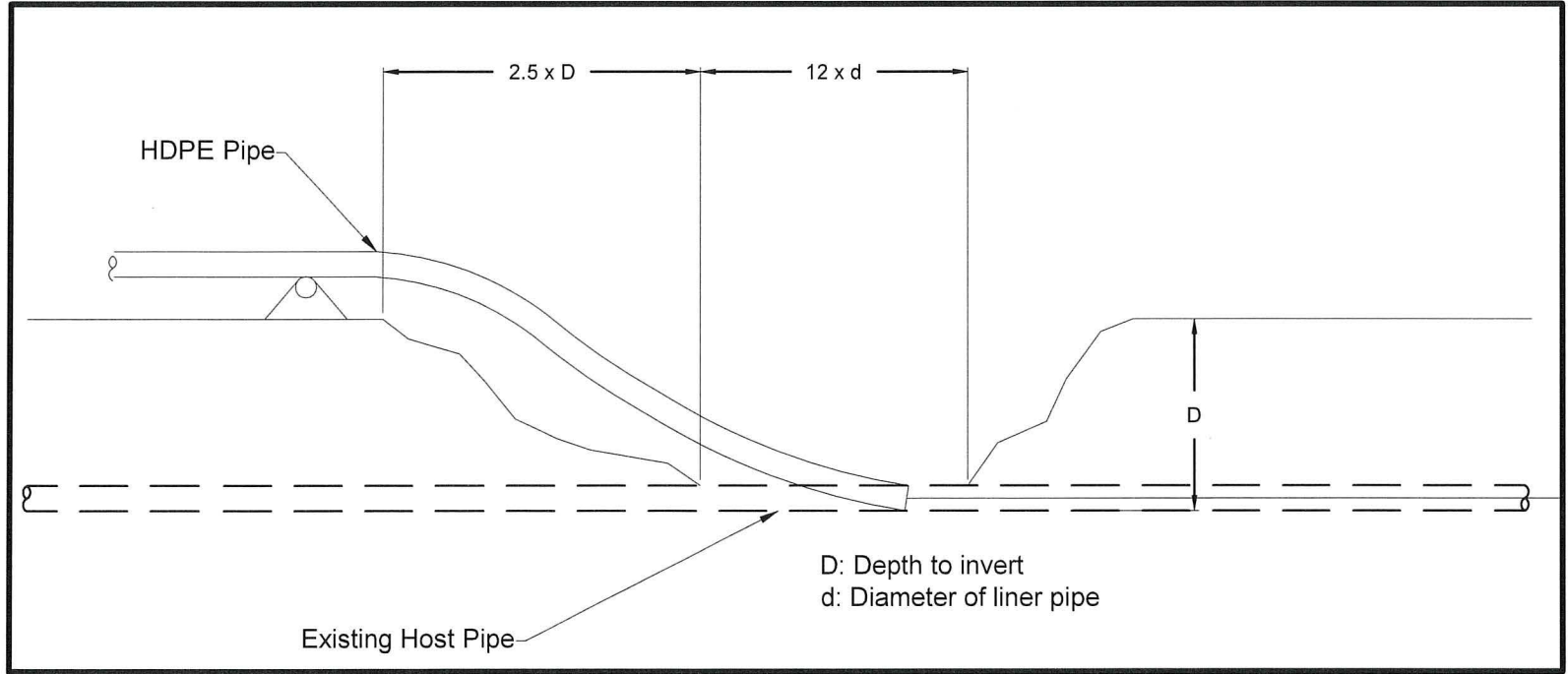
APPROVED BY	REVISED DATE	CITY OF CENTRALIA	STD. PLAN NO.
CITY ENGINEER	06/2017	CLEANOUT	3-04
2022 Standard Drawings			

DETAIL
N.T.S.

3-04
SD02



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DRAWN BY: C. TORSTVET
SURVEYED BY: C. TORSTVET
CHECKED BY: P. PAGE



DETAIL
N.T.S.

2-SD
SD03



DESIGNED BY: P. PAGE
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SURVEYED BY: C. TORSTVET
CHECKED BY: P. PAGE

April, 2025

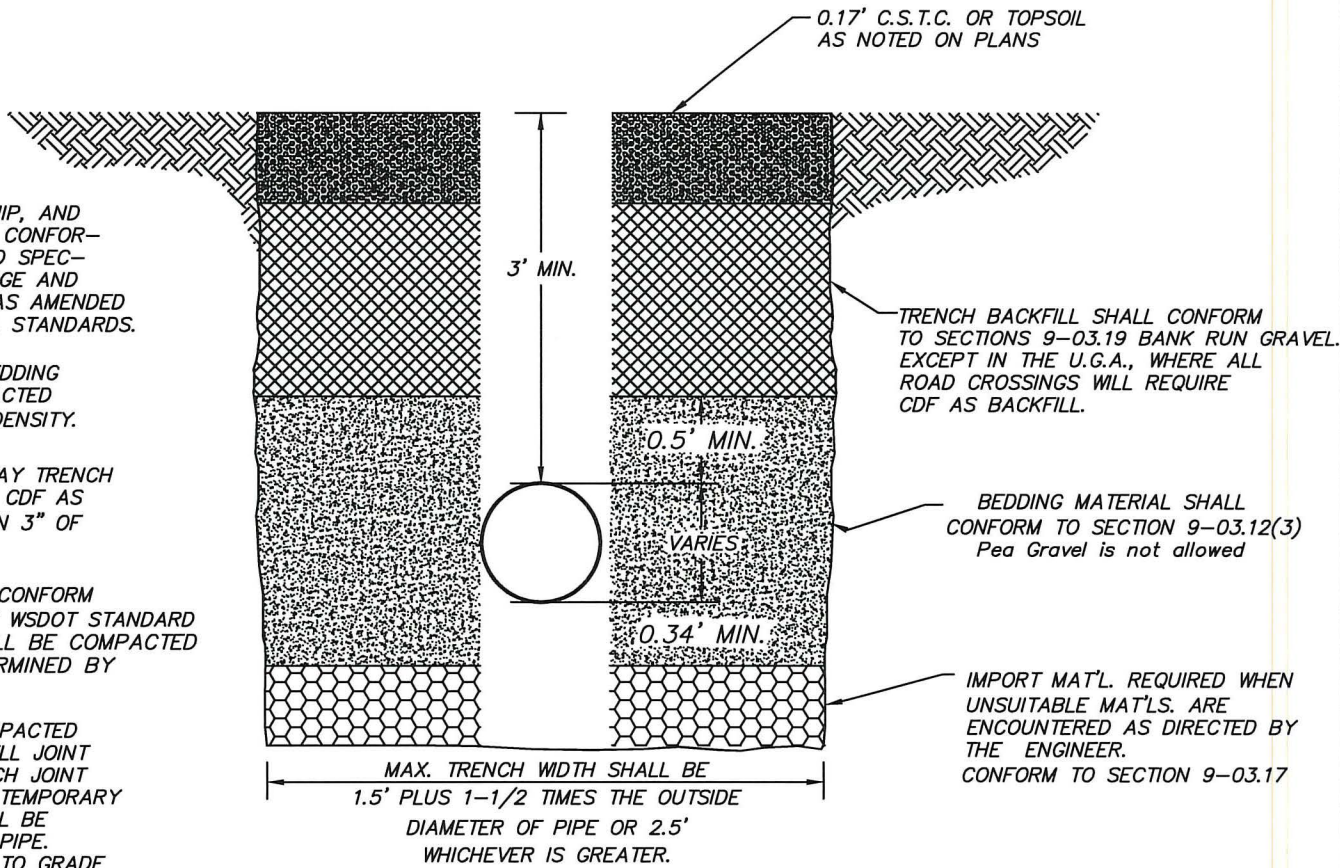
SD03

NOTES:

1. ALL MATERIALS, WORKMANSHIP, AND INSTALLATION SHALL BE IN CONFORMANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION AS AMENDED BY THE CITY OF CENTRALIA STANDARDS.
2. ALL MATERIALS EXCEPT BEDDING MATERIAL SHALL BE COMPACTED IN 6" MAX. LIFTS TO 95% DENSITY.
3. IN THE U.G.A., ALL ROADWAY TRENCH CROSSINGS SHALL REQUIRE CDF AS TRENCH BACKFILL TO WITHIN 3" OF FINISH GRADE.
4. BEDDING MATERIAL SHALL CONFORM TO SECTION 9-03.12(3) OF WSDOT STANDARD SPECIFICATIONS AND SHALL BE COMPACTED TO 95% OF MAX. AS DETERMINED BY ASTM D1557.
5. KEEP TRENCH BOTTOM COMPACTED WITH UNIFORM GRADE. A BELL JOINT SHALL BE REQUIRED AT EACH JOINT FOR PROPER SUPPORT. NO TEMPORARY SUPPORTS, I.E. BLOCKS, WILL BE ALLOWED TO SUPPORT THE PIPE. TRENCH BOTTOM SHALL BE TO GRADE PRIOR TO PIPE INSTALLATION.

6. COLD MIX WILL BE REQUIRED FOR TEMPORARY PATCHES OR ROAD CROSSINGS.

7. ALL TRENCH MATERIAL SHALL BE IMPORT. NATIVE MATERIAL MAY ONLY BE USED OUTSIDE ROADWAY PRISM WITH PRIOR APPROVAL IF TESTING CONFIRMS IT MEETS BACKFILL SPEC. PIPE BEDDING MUST BE IMPORT AT ALL TIMES.

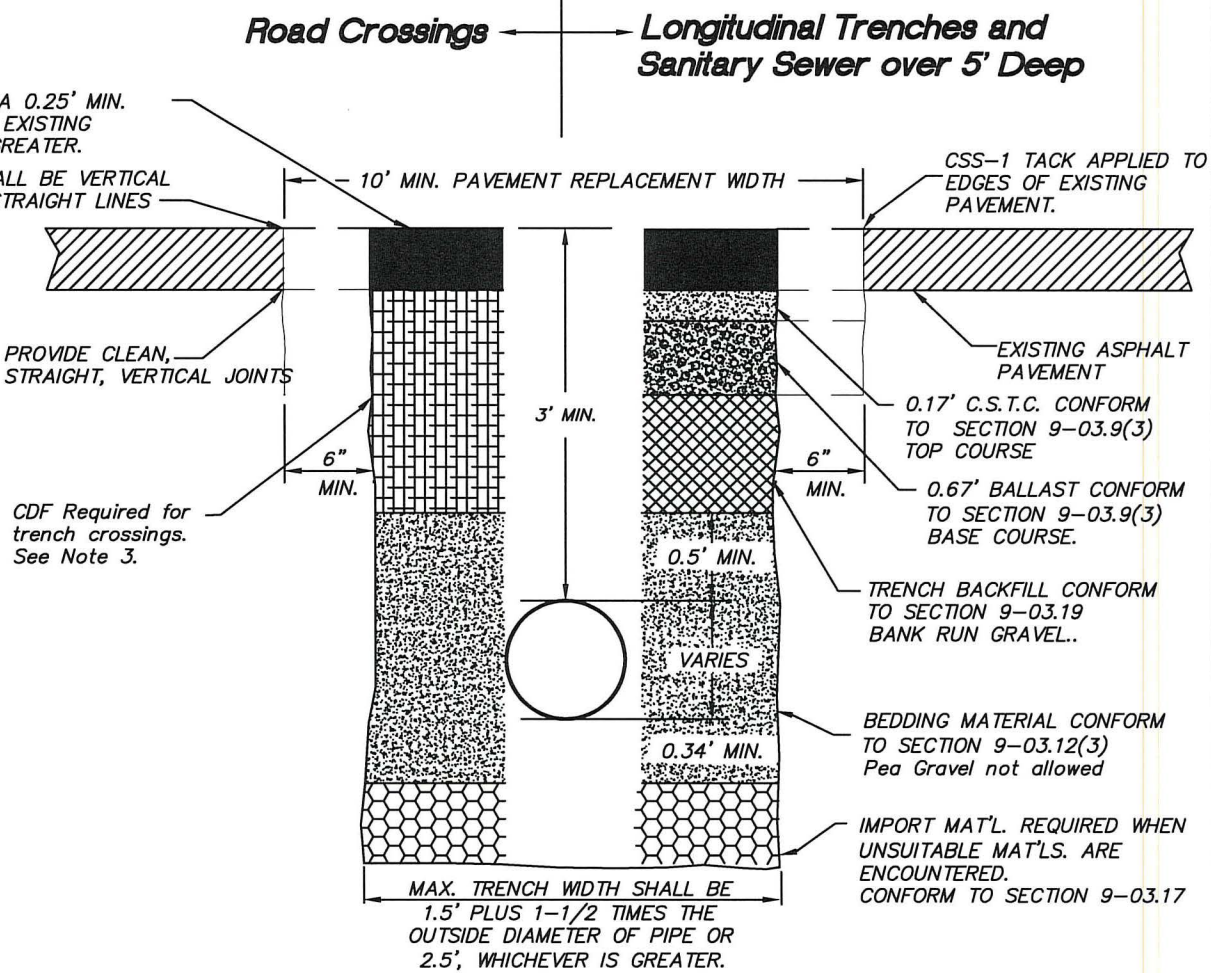


APPROVED BY	REVISED DATE	CITY OF CENTRALIA
CITY ENGINEER	06-2017	TRENCH RESTORATION OUTSIDE PAVED AREA
2022 Standard Drawings		

NOTES:

1. ALL MATERIALS, WORKMANSHIP, AND INSTALLATION SHALL BE IN CONFORMANCE WITH WSDOT SPECIFICATIONS AND CITY OF CENTRALIA STANDARDS.
2. ALL MATERIALS EXCEPT BEDDING MATERIAL SHALL BE COMPACTED IN 6" MAX. LIFTS TO 95% DENSITY.
3. ALL ROADWAY TRENCH CROSSINGS SHALL REQUIRE CDF AS TRENCH BACKFILL EXCEPT SANITARY SEWER MAIN LINES DEEPER THAN 5 FEET.
4. BEDDING MATERIAL SHALL CONFORM TO SECTION 9-03.12(3) OF WSDOT SPECIFICATIONS COMPACTED TO 95% OF MAX. DENSITY PER ASTM D1557.
5. KEEP TRENCH BOTTOM COMPACTED WITH UNIFORM GRADE. A BELL JOINT SHALL BE REQUIRED AT EACH JOINT FOR PROPER SUPPORT. NO TEMPORARY SUPPORTS, I.E. BLOCKS, WILL BE ALLOWED TO SUPPORT THE PIPE. TRENCH BOTTOM SHALL BE TO GRADE PRIOR TO PIPE INSTALLATION.
6. COLD MIX WILL BE REQUIRED FOR TEMPORARY PATCHES OR ROAD CROSSINGS.

7. ALL TRENCH MATERIAL SHALL BE IMPORT. NATIVE MATERIAL MAY ONLY BE USED OUTSIDE ROADWAY PRISM WITH PRIOR APPROVAL IF TESTING CONFIRMS IT MEETS BACKFILL SPEC. PIPE BEDDING MUST BE IMPORT AT ALL TIMES.



APPROVED BY	REVISED DATE	CITY OF CENTRALIA
CITY ENGINEER	06-2017	TRENCH RESTORATION ASPHALT PAVEMENT
2022 Standard Drawings		



2025 SANITARY SEWER
PIPE BURSTING AND CIPP
MAIN REPLACEMENT

PW 2025-04

STREET
TRENCH RESTORATION
ASPHALT & OUTSIDE PAVEMENT

CITY OF CENTRALIA
PUBLIC WORKS
ENGINEERING DEPT.

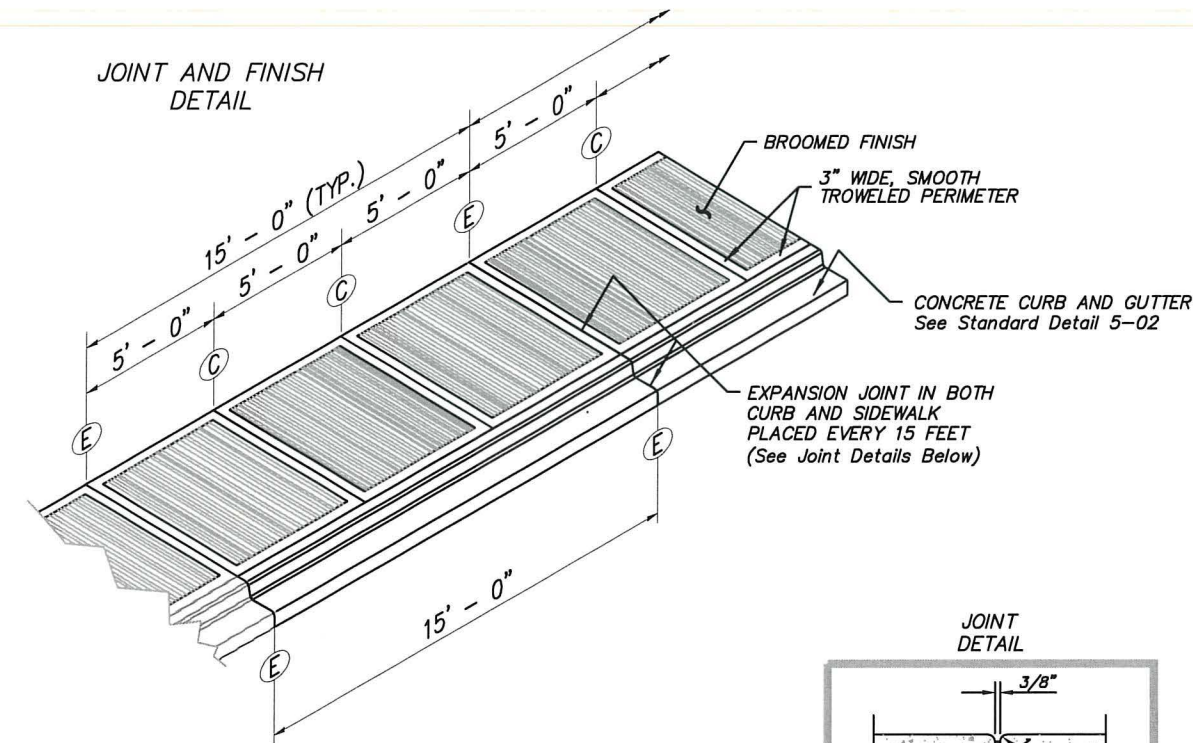
1100 N. TOWER AVE
CENTRALIA, WA 98531
P: 360.330.7512 F: 360.330.7516
CITYOFCENTRALIA.COM

April, 2025

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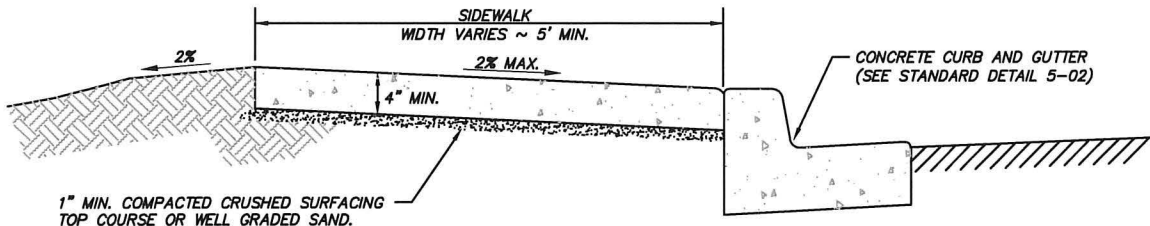
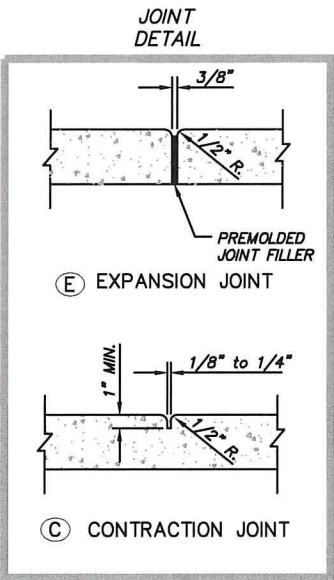
RD01

22 OF 25



GENERAL NOTES:

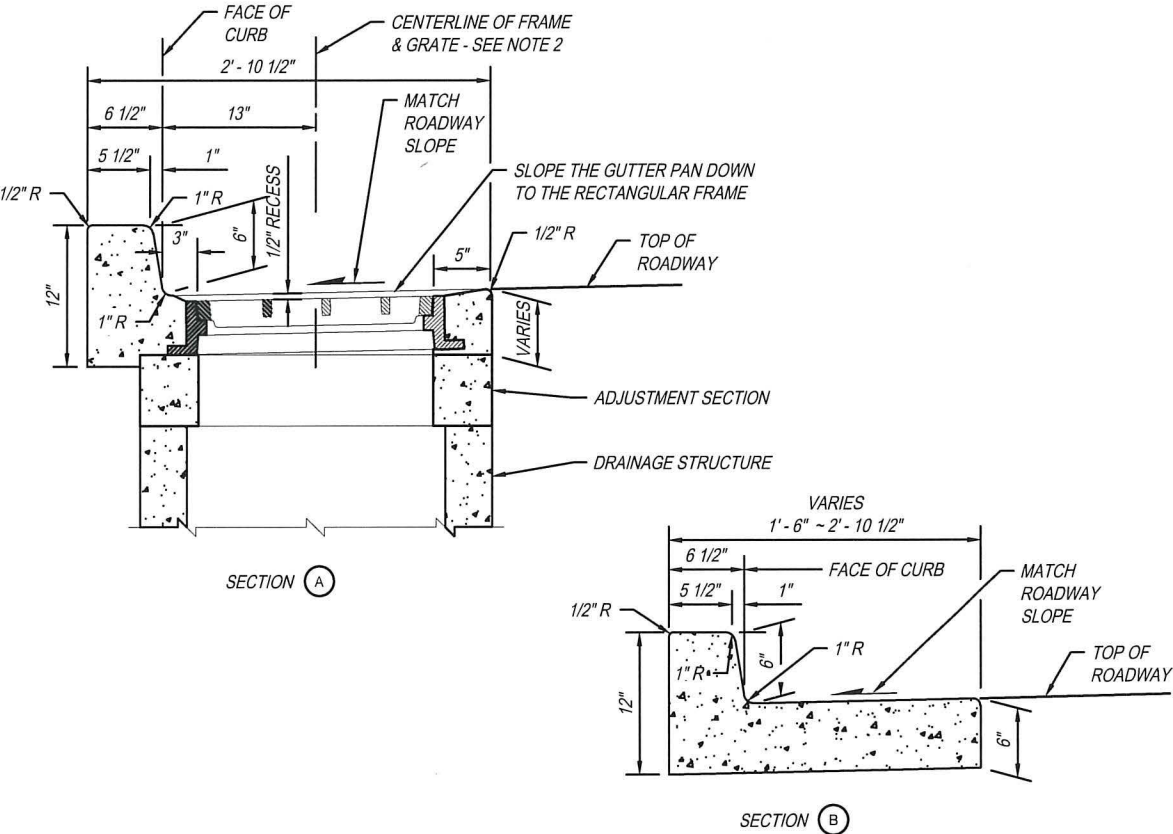
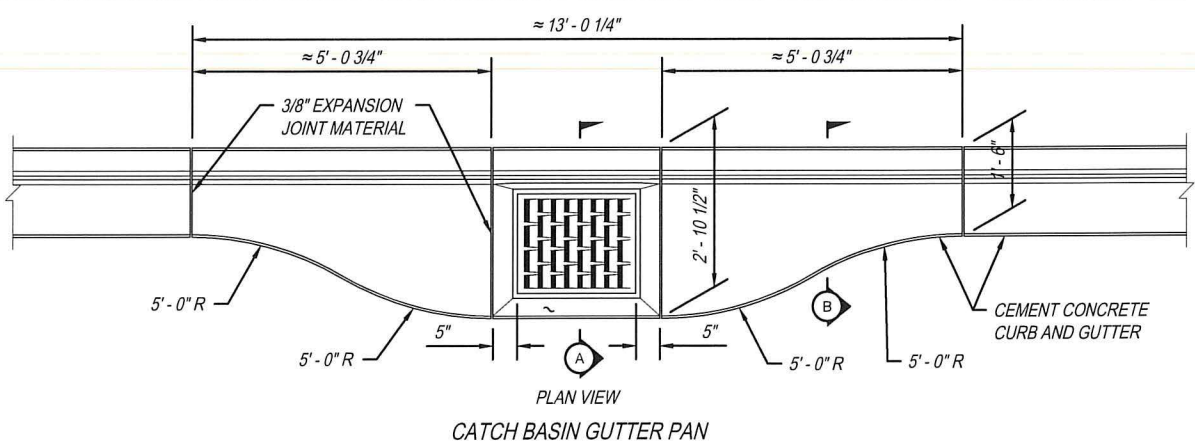
1. EXPANSION JOINT MATERIAL TO BE 3/8" THICK PREMOLDED JOINT FILLER FULL THICKNESS OF CONCRETE.
2. FORM AND SUBGRADE INSPECTION REQUIRED BEFORE POURING CONCRETE.
3. SCORE MARKS SHALL BE 1/8" - 1/4" WIDE BY 1" DEEP. FOR SIDEWALKS OVER 8' IN WIDTH, A LONGITUDINAL SCORE MARK SHALL BE MADE ALONG CENTER OF WALK.
4. WESTERN GROOVE FINISH REQUIRED AT SCORE MARKS.
5. EXPANSION JOINTS SHALL BE INSTALLED IN CURB AND GUTTER AND IN SIDEWALK AT PC AND PT AT ALL CURB RETURNS. EXPANSION JOINTS SHALL BE PLACED IN SIDEWALK AT SAME LOCATIONS AS THOSE IN CURB AND GUTTER WHEN SIDEWALK IS ADJACENT TO CURB AND GUTTER, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
6. CONCRETE DRIVEWAYS REQUIRE A MINIMUM DEPTH OF 6". (SEE STANDARD DETAIL 5-03 FOR DRIVEWAYS)



APPROVED BY	REVISED DATE	CITY OF CENTRALIA	STD. PLAN NO.
CITY ENGINEER	06/2017	SIDEWALK DETAILS	5-01
2022 Standard Drawings			

DETAIL
N.T.S.

5-01
RD02



1. THE INTENT OF THIS DESIGN IS TO FACILITATE THE COMPACTION OF HOT MIX ASPHALT PAVEMENT ADJACENT TO A DRAINAGE STRUCTURE.
2. THE CENTERLINE OF THE DRAINAGE STRUCTURE MAY DIFFER FROM THE CENTERLINE OF THE FRAME AND GRATE.
3. EXPANSION JOINT MATERIAL TO BE 3/8" THICK PREMOLDED JOINT FILLER FULL THICKNESS OF CONCRETE. SEE SIDEWALK DETAILS (5-01) FOR EXPANSION JOINT SPACING.
4. FORM AND SUBGRADE INSPECTION REQUIRED BEFORE POURING CONCRETE.

APPROVED BY	REVISED DATE	CITY OF CENTRALIA	STD. PLAN NO.
CITY ENGINEER	03/2024	CEMENT CONCRETE CURB and GUTTER	5-02
2022 Standard Drawings			

DETAIL
N.T.S.

5-02
RD02

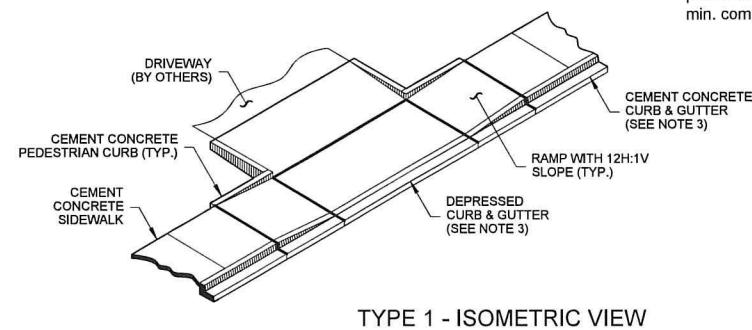
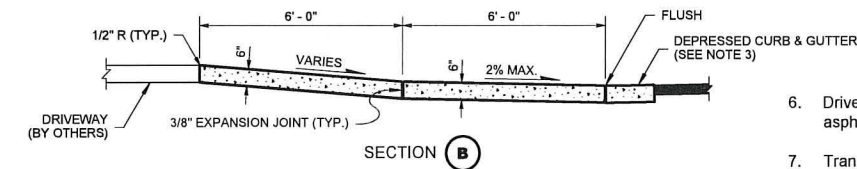
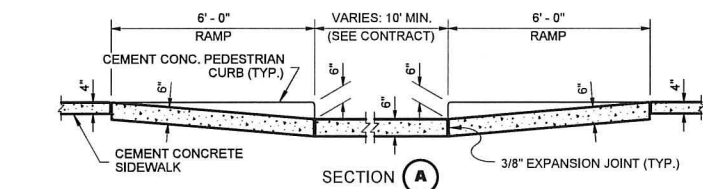
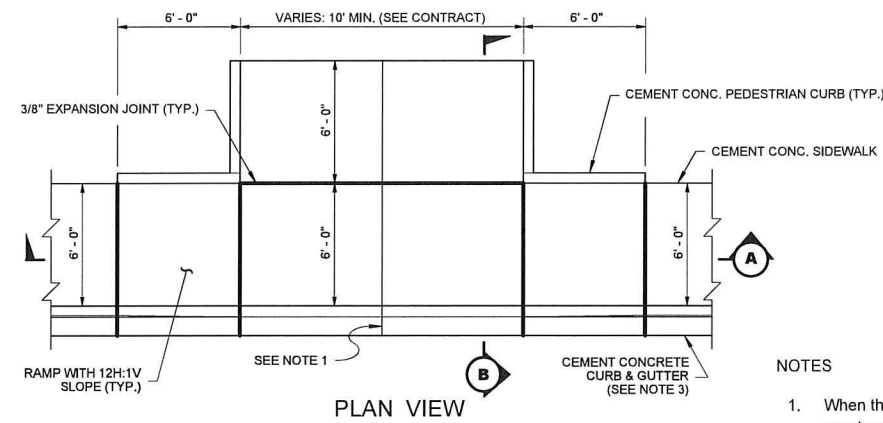


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RD02

CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 1



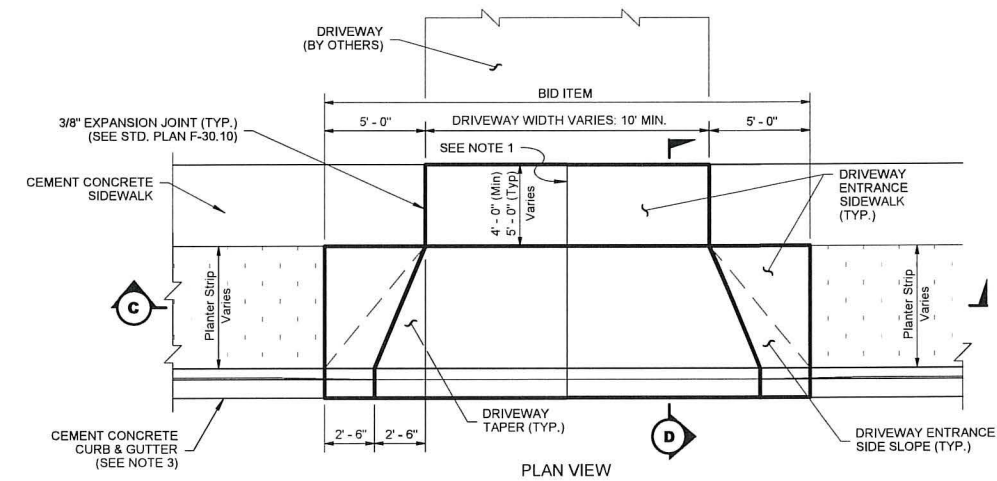
- NOTES
- When the driveway width exceeds 15 feet, construct a full depth expansion joint with $\frac{3}{8}$ " joint filler along the driveway centerline.
 - See Std. Plan 5-01 for sidewalk details.
 - Curb and gutter shown. See Standard Plan 5-02 for curb details.
 - Avoid placing drainage structures, junction boxes or other obstructions in front of driveway entrances.
 - Concrete mix shall be class 4000psi mix.
 - Driveway transition to existing driveways shall be asphalt or concrete.
 - Transition ped curbs shall be installed as needed.
 - Minimum 4" depth compacted CSTC shall be placed as base prior to concrete placement. (6" min. commercial)

APPROVED BY	REVISED DATE	CITY OF CENTRALIA	STD. PLAN NO.
CITY ENGINEER	06-2020	CEMENT CONCRETE DRIVEWAY COMMERCIAL	5-03A
2022 Standard Drawings			

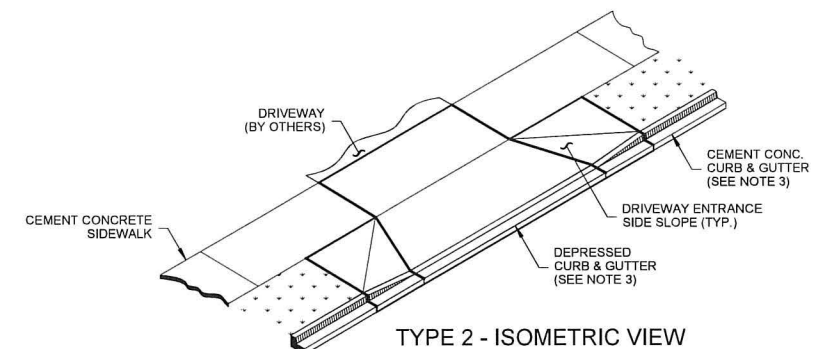
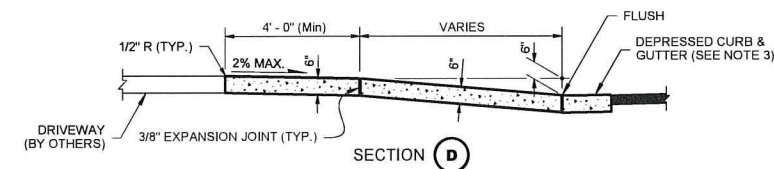
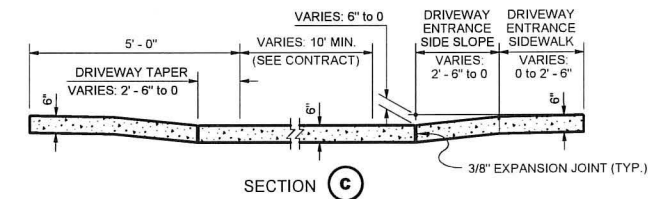
DETAIL
N.T.S.



CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 2



- NOTES
- When the driveway width exceeds 15 feet, construct a full depth expansion joint with $\frac{3}{8}$ " joint filler along the driveway centerline.
 - See Std. Plan 5-01 for sidewalk details.
 - Curb and gutter shown. See Standard Plan 5-02 for curb details.
 - Avoid placing drainage structures, junction boxes or other obstructions in front of driveway entrances.
 - Concrete mix shall be class 4000psi mix.



APPROVED BY	REVISED DATE	CITY OF CENTRALIA	STD. PLAN NO.
CITY ENGINEER	06-2017	CEMENT CONCRETE DRIVEWAY with PLANTER STRIP	5-03C
2022 Standard Drawings			

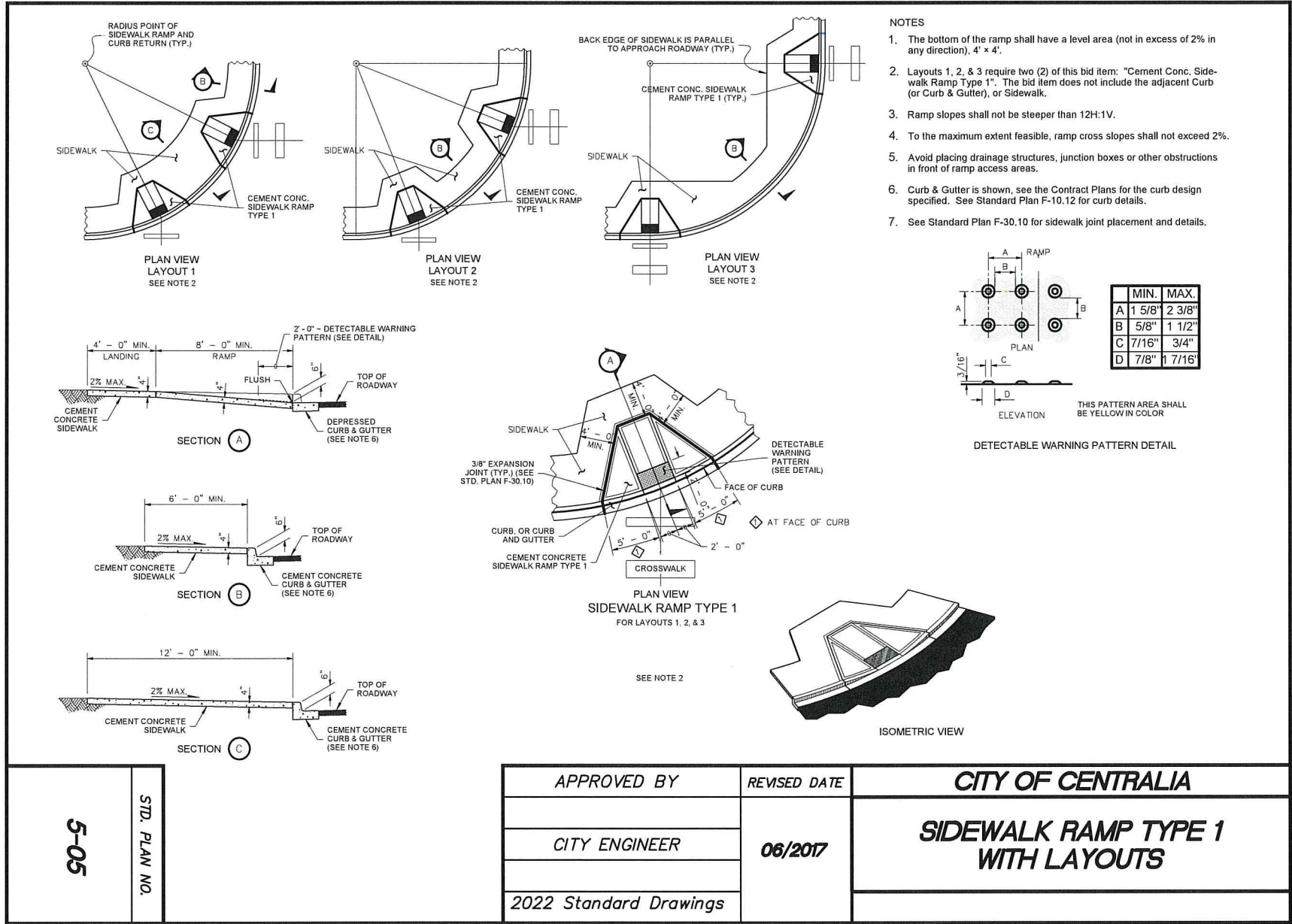
DETAIL
N.T.S.



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April, 2025

RD03

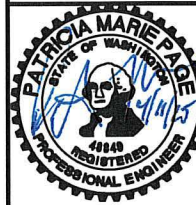


DETAIL
N.T.S.

5-05
RD04

SIDEWALK & CURB
SIDEWALK RAMP TYPE 1
WITH LAYOUTS

2025 SANITARY SEWER
PIPE BURSTING AND CIPP
MAIN REPLACEMENT
PW 2025-04



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RD04