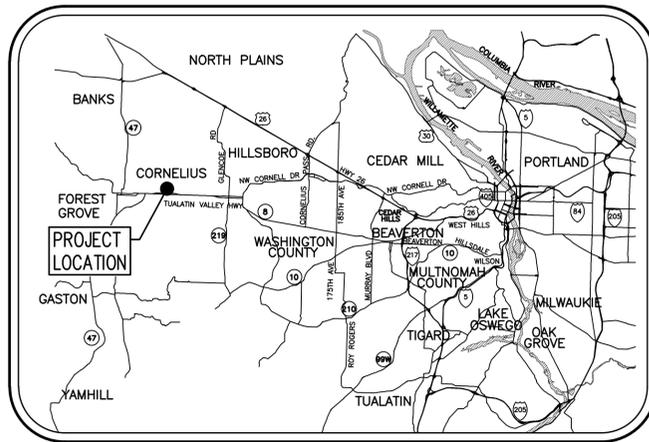
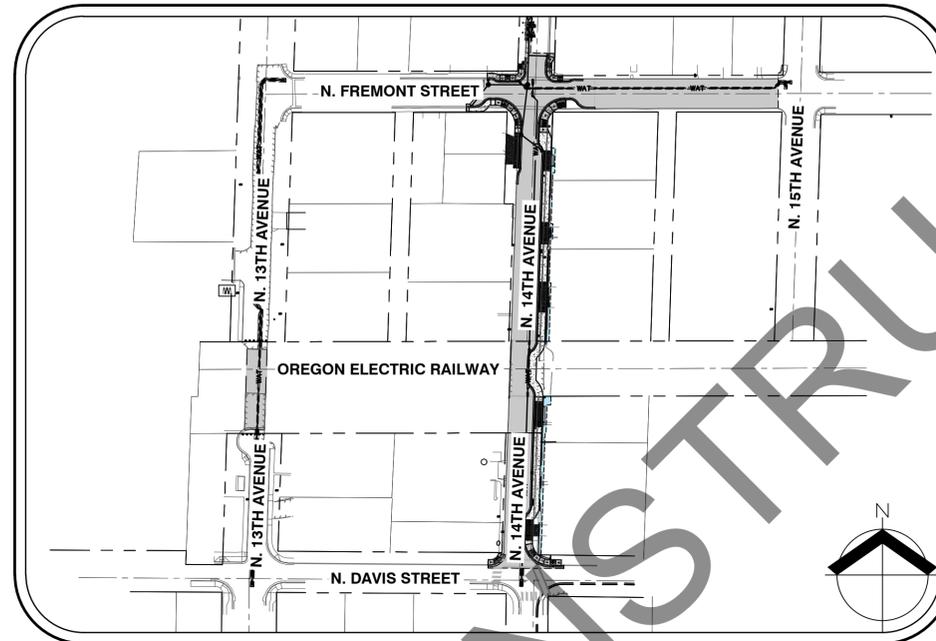


# 13TH & 14TH AVE IMPROVEMENTS

## CIVIL ENGINEERING CONSTRUCTION PLANS



**VICINITY MAP**  
NOT TO SCALE



**SITE MAP**  
NOT TO SCALE

### PROPERTY LOCATION

STARTING WITH THE INTERSECTION OF N 13TH AVENUE AND N DAVIS STREET HEADING NORTH TO THE INTERSECTION OF N 13TH AVENUE AND N FREMONT STREET THEN HEADING EAST TO THE INTERSECTION OF N 15TH AVENUE AND N DAVIS STREET. THIS ALSO INCLUDES BETWEEN THE INTERSECTION OF N 14TH AVENUE AND FREMONT STREET TO N 14TH AVENUE AND N DAVIS STREET. TAX MAP 1N 333 DC.

### HORIZONTAL DATUM

BASED ON THE OCRS PORTLAND ZONE, INTERNATIONAL FOOT, NAD83(2011) EPOCH: 2010.0000. STATE PLANE COORDINATES WERE DERIVED FROM THE TRIMBLE VRS NOW NETWORK.

### VERTICAL DATUM

ELEVATIONS ARE BASED ON WASHINGTON COUNTY BENCHMARK NO. 175. LOCATED AT THE SE CORNER OF 11TH AVENUE AND SOUTH ALPINE STREET. ELEVATION = 176.34 FEET (NAVD 29).

### PROJECT RECORD DRAWING

CONTRACTOR SHALL PROVIDE THE OWNER'S REPRESENTATIVE WITH A REDLINED COPY OF THESE CONSTRUCTION PLANS SHOWING AS-BUILT ELEVATIONS, LOCATIONS, AND PLAN DEVIATIONS. REDLINED AS-BUILT DRAWINGS SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE ONE WEEK PRIOR TO REQUESTING WALK-THROUGH AND/OR ACCEPTANCE OF SUBSTANTIAL COMPLETION.

I, THE UNDERSIGNED, STATE I HAVE CHECKED AND VERIFIED THAT THESE REDLINED AS-BUILT DRAWINGS ARE ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

SIGNATURE (CONTRACTOR)

DATE



Know what's below.  
Call before you dig.

### ATTENTION EXCAVATORS

OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0001 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THESE RULES FROM THE CENTER BY CALLING 503-232-1987. IF YOU HAVE ANY QUESTIONS ABOUT THE RULES, YOU MAY CONTACT THE CENTER. YOU MUST NOTIFY THE CENTER AT LEAST TWO BUSINESS DAYS BUT NOT MORE THAN TEN BUSINESS DAYS, BEFORE COMMENCING AN EXCAVATION. CALL 503-246-6699.

### PREPARED FOR

CITY OF CORNELIUS  
CONTACT: KEVIN OPPENLANDER  
1355 N. BARLOW STREET  
CORNELIUS, OR 97113  
PH: 503.992.5367

### CIVIL ENGINEERING/ SURVEYING FIRM

AKS ENGINEERING & FORESTRY, LLC  
CONTACT: JASON WUERTZ, P.E.  
12965 SW HERMAN RD, STE 100  
TUALATIN, OR 97062  
PH: 503.563.6151  
WWW.AKS-ENG.COM

### GEOTECH FIRM

GRI-GEOTECHNICAL RESOURCES, INC.  
CONTACT: TBD  
16520 SW UPPER BOONES FERRY ROAD  
TIGARD, OR 97224  
PH: 503.641.3478

### STORM SEWER/SANITARY SEWER/WATER

CITY OF CORNELIUS  
PH: 503.357.3011

### POWER

PORTLAND GENERAL ELECTRIC  
PH: 503.464.7777

### GAS

NW NATURAL  
PH: 503.220.2415

### COMMUNICATIONS

COMCAST  
PH: 855.537.6296

### SHEET INDEX

- C000 COVER SHEET WITH VICINITY AND SITE MAP
- \* C001 GENERAL NOTES AND LEGEND
- EXISTING CONDITIONS
- C002 EXISTING CONDITIONS PLAN
- C003 EXISTING CONDITIONS PLAN
- C004 EXISTING CONDITIONS PLAN
- C005 EXISTING CONDITIONS PLAN
- \* DEMOLITION & EROSION CONTROL PLANS
- C070 DEMOLITION & EROSION CONTROL PLANS
- C071 DEMOLITION & EROSION CONTROL PLANS
- C072 EROSION CONTROL DETAILS
- C073 EROSION CONTROL DETAILS
- TYPICAL SECTIONS
- C090 TYPICAL CROSS SECTIONS
- STREET PLAN AND PROFILE
- C100 N 13TH AVE PLAN STA 1+00 TO 4+00
- C102 N 14TH AVE PLAN AND PROFILE STA 1+00 TO 3+50
- C103 N 14TH AVE PLAN AND PROFILE STA 3+50 TO 7+00
- C104 N FREMONT STREET PLAN AND PROFILE STA 4+50 TO 7+00
- \* CURB RETURN DETAILS
- C120 CURB RETURN DETAIL
- C121 CURB RETURN DETAIL
- C122 CURB RETURN DETAIL
- C123 CURB RETURN DETAIL
- C124 CURB RETURN DETAIL
- C125 CURB RETURN DETAIL
- \* DRIVEWAY DETAILS
- C130 DRIVEWAY DETAILS
- C131 DRIVEWAY DETAILS
- C132 DRIVEWAY DETAILS
- C133 DRIVEWAY DETAILS
- C134 DRIVEWAY DETAILS
- C135 DRIVEWAY DETAILS
- \* STREET DETAILS
- C150 STREET CONSTRUCTION DETAILS
- C151 STREET CONSTRUCTION DETAILS
- C152 STREET CONSTRUCTION DETAILS
- C153 STREET CONSTRUCTION DETAILS
- WATER PLAN AND PROFILE
- C400 WAT A STA 0+00 - 3+50 PLAN AND PROFILE
- C401 WAT A STA 3+50 - 5+77 PLAN AND PROFILE
- C402 WAT B STA 0+00 - 3+50 PLAN AND PROFILE
- C403 WAT B STA 3+50 - 6+00 PLAN AND PROFILE
- C404 WAT B STA 6+00 - 8+30 PLAN AND PROFILE
- \* WATER DETAILS
- C450 WATER DETAILS
- C451 WATER DETAILS
- C452 WATER DETAILS
- \*NOT INCLUDED IN THIS SUBMITTAL

AKS ENGINEERING & FORESTRY, LLC  
12965 SW HERMAN RD, STE 100  
TUALATIN, OR 97062  
503.563.6151  
WWW.AKS-ENG.COM

ENGINEERING - SURVEYING - NATURAL RESOURCES  
FORESTRY - PLANNING - LANDSCAPE ARCHITECTURE

13TH & 14TH AVE  
IMPROVEMENTS  
CORNELIUS OREGON

COVER SHEET WITH  
VICINITY AND SITE MAP

DESIGNED BY: LAH  
DRAWN BY: CSR  
MANAGED BY: AR  
CHECKED BY: JAW

DATE: 10/31/2025

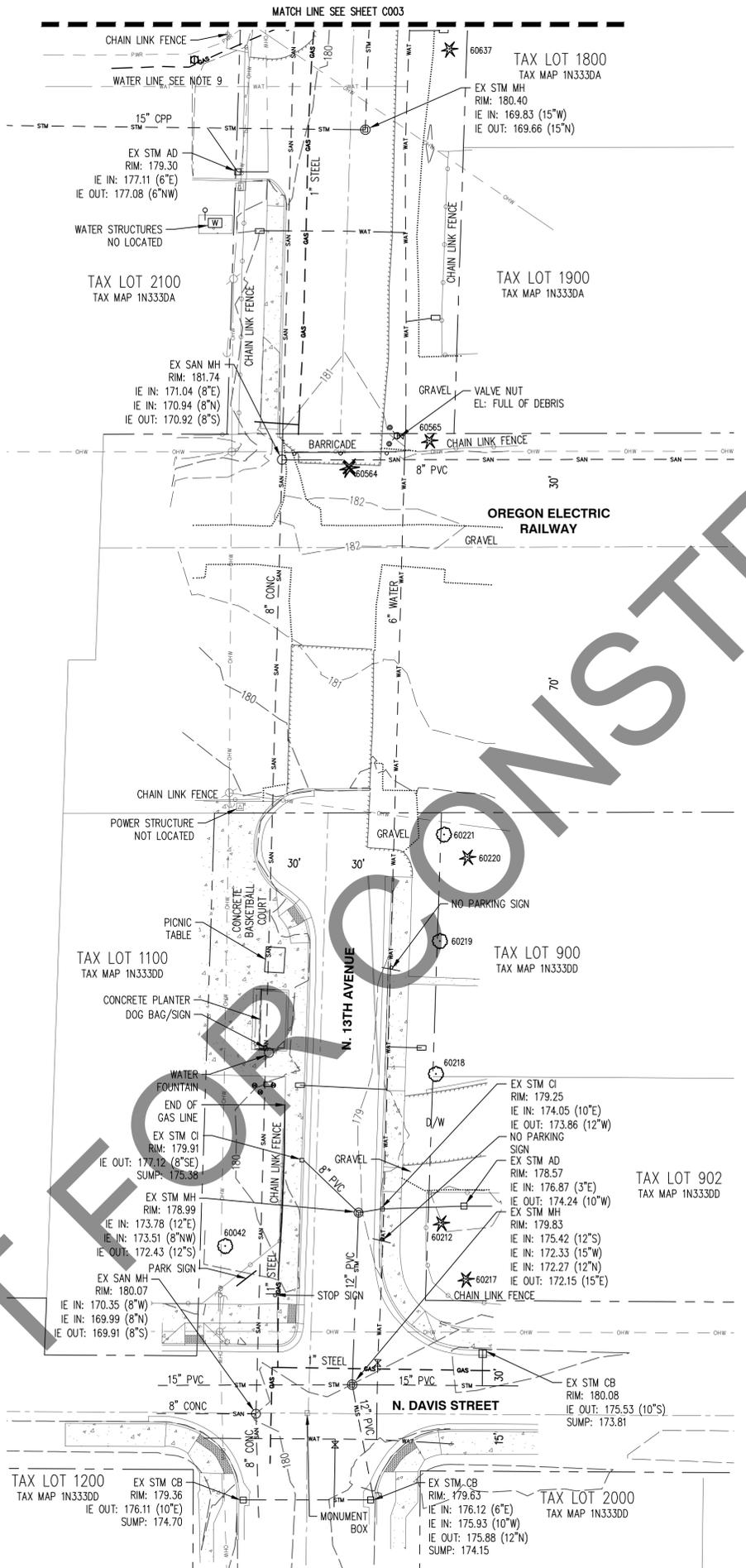
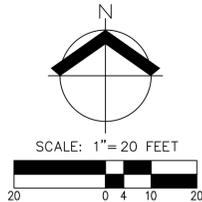


RENEWAL DATE: 06/30/2026

REVISIONS

JOB NUMBER  
9806-09

SHEET  
C000



TREE TABLE		
TREE NUMBER	TYPE	DBH (IN.)
60042	DECIDUOUS	13
60212	CONIFEROUS	22
60217	CONIFEROUS	34
60218	DECIDUOUS	18
60219	DECIDUOUS	20
60220	CONIFEROUS	15
60221	DECIDUOUS	21
60564	CONIFEROUS	6
60565	CONIFEROUS	27
60637	CONIFEROUS	9

- NOTES:**
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  - FADED BACK AND DENOTED WATER UTILITIES ARE PER CITY OF CORNELIUS DISTRIBUTION MAP DATED OCTOBER 2007.

**LEGEND**

<b>EXISTING</b>	<b>EXISTING</b>
DECIDUOUS TREE	STORM DRAIN CLEAN OUT
CONIFEROUS TREE	STORM DRAIN CATCH BASIN
FIRE HYDRANT	STORM DRAIN AREA DRAIN
WATER BLOWOFF	STORM DRAIN MANHOLE
WATER METER	GAS METER
WATER VALVE	GAS VALVE
DOUBLE CHECK VALVE	GUY WIRE ANCHOR
AIR RELEASE VALVE	UTILITY POLE
SANITARY SEWER CLEAN OUT	POWER VAULT
SANITARY SEWER MANHOLE	POWER JUNCTION BOX
SIGN	POWER PEDESTAL
STREET LIGHT	COMMUNICATIONS VAULT
MAILBOX	COMMUNICATIONS JUNCTION BOX
	COMMUNICATIONS RISER
	<b>EXISTING</b>
RIGHT-OF-WAY LINE	_____
BOUNDARY LINE	_____
PROPERTY LINE	_____
CENTERLINE	_____
DITCH	_____
CURB	_____
EDGE OF PAVEMENT	_____
EASEMENT	_____
FENCE LINE	_____
GRAVEL EDGE	_____
POWER LINE	_____
OVERHEAD WIRE	_____
COMMUNICATIONS LINE	_____
FIBER OPTIC LINE	_____
GAS LINE	_____
STORM DRAIN LINE	_____
SANITARY SEWER LINE	_____
WATER LINE	_____
RECLAIMED WATER LINE	_____

NOT FOR CONSTRUCTION

AKS DRAWING FILE: 9806-09\_EXPONDING\_LAYOUT: C002

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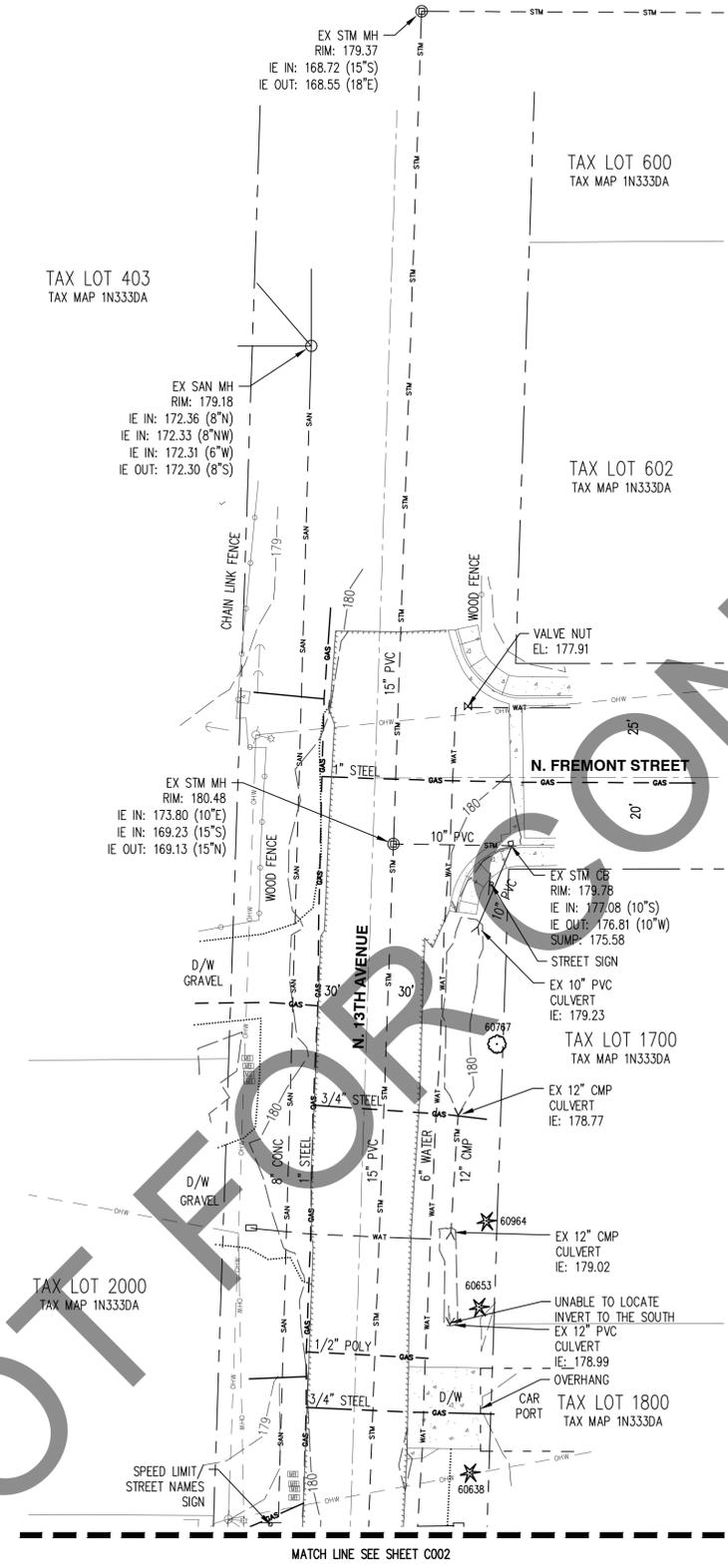
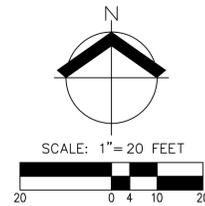
**13TH & 14TH AVENUE IMPROVEMENTS**  
 WASHINGTON COUNTY OREGON  
 TAX MAPS 1N3330A, 1N3330D

**EXISTING CONDITIONS PLAN**

DESIGNED BY: ---  
 DRAWN BY: JAY  
 MANAGED BY: IAW  
 CHECKED BY: BRH  
 DATE: 10/31/2025

REGISTERED PROFESSIONAL LAND SURVEYOR  
*Benjamin R Huff*  
 OREGON  
 MARCH 14, 2017  
 BENJAMIN R HUFF  
 84738PLS  
 RENEWS: 6/30/27

JOB NUMBER  
**9806-09**  
 SHEET  
**C002**



TREE NUMBER	TYPE	DBH (IN)
60638	CONIFEROUS	9
60653	CONIFEROUS	23
60767	DECIDUOUS	8,10,10,12,14,15
60864	CONIFEROUS	47

**NOTES:**

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**LEGEND**

DECIDUOUS TREE		EXISTING	STORM DRAIN CLEAN OUT		EXISTING
CONIFEROUS TREE		EXISTING	STORM DRAIN CATCH BASIN		EXISTING
FIRE HYDRANT		EXISTING	STORM DRAIN AREA DRAIN		EXISTING
WATER BLOWOFF		EXISTING	STORM DRAIN MANHOLE		EXISTING
WATER METER		EXISTING	GAS METER		EXISTING
WATER VALVE		EXISTING	GAS VALVE		EXISTING
DOUBLE CHECK VALVE		EXISTING	GUY WIRE ANCHOR		EXISTING
AIR RELEASE VALVE		EXISTING	UTILITY POLE		EXISTING
SANITARY SEWER CLEAN OUT		EXISTING	POWER VAULT		EXISTING
SANITARY SEWER MANHOLE		EXISTING	POWER JUNCTION BOX		EXISTING
SIGN		EXISTING	POWER PEDESTAL		EXISTING
STREET LIGHT		EXISTING	COMMUNICATIONS VAULT		EXISTING
MAILBOX		EXISTING	COMMUNICATIONS JUNCTION BOX		EXISTING
			COMMUNICATIONS RISER		EXISTING
<b>EXISTING</b>					
RIGHT-OF-WAY LINE					
BOUNDARY LINE					
PROPERTY LINE					
CENTERLINE					
DITCH					
CURB					
EDGE OF PAVEMENT					
EASEMENT					
FENCE LINE					
GRAVEL EDGE					
POWER LINE					
OVERHEAD WIRE					
COMMUNICATIONS LINE					
FIBER OPTIC LINE					
GAS LINE					
STORM DRAIN LINE					
SANITARY SEWER LINE					
WATER LINE					
RECLAIMED WATER LINE					

AKS DRAWING FILE: 9806-09\_EXCONDDWG\_LAYOUT: C003

NOT FOR CONSTRUCTION

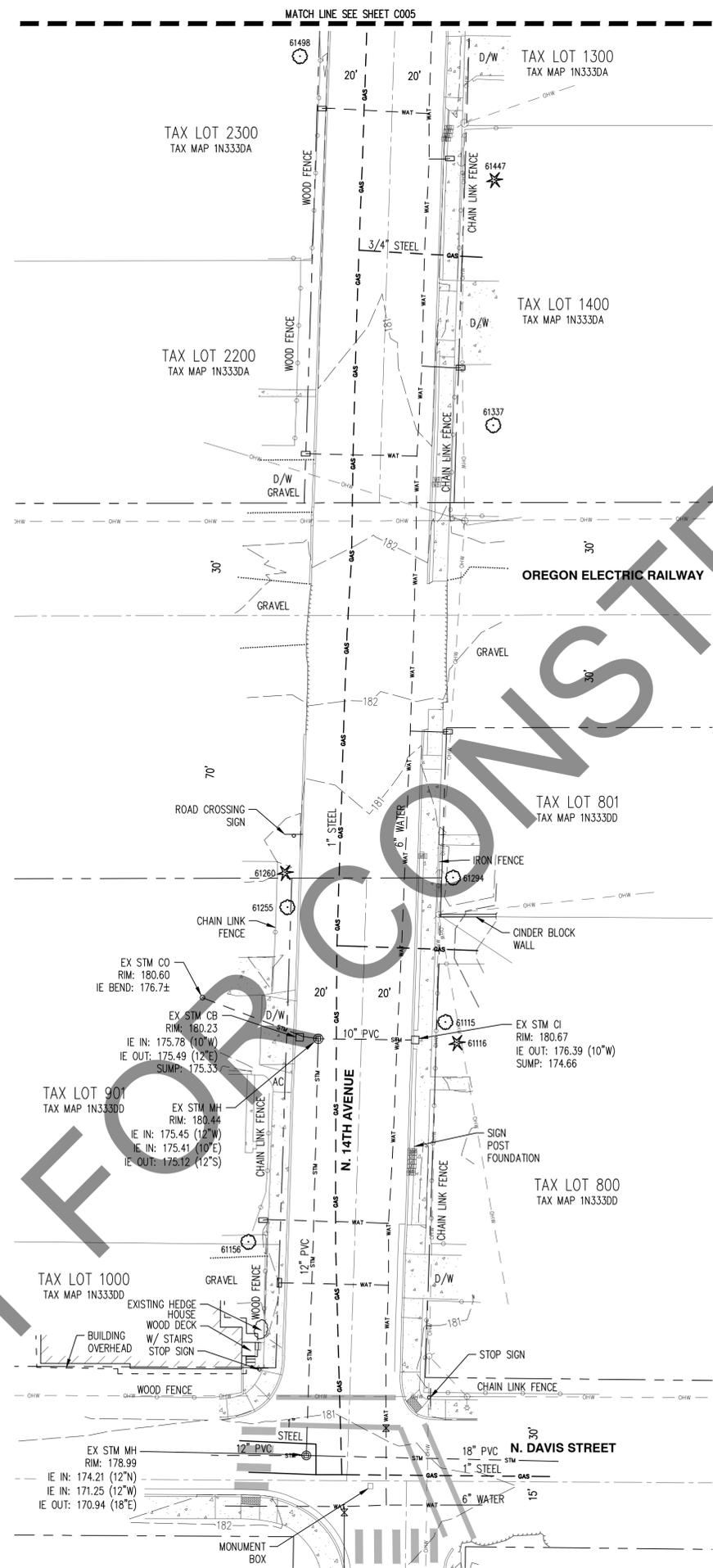
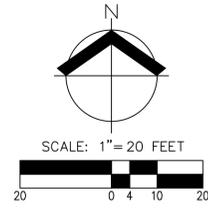
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**13TH & 14TH AVENUE IMPROVEMENTS**  
 WASHINGTON COUNTY OREGON  
 TAX MAPS 1N3330A, 1N3330D

**EXISTING CONDITIONS PLAN**

DESIGNED BY: ---  
 DRAWN BY: JAY  
 MANAGED BY: IAW  
 CHECKED BY: BRH  
 DATE: 10/31/2025  
 REGISTERED PROFESSIONAL LAND SURVEYOR  
 Benjamin R Huff  
 OREGON MARCH 14, 2017  
 BENJAMIN R HUFF  
 84738PLS  
 RENEWS: 6/30/27

REVISIONS  
 JOB NUMBER  
**9806-09**  
 SHEET  
**C003**



TREE TABLE		
TREE NUMBER	TYPE	DBH (IN.)
61115	DECIDUOUS	9,9,11
61116	CONIFEROUS	19
61156	DECIDUOUS	19
61255	DECIDUOUS	30
61260	CONIFEROUS	11
61294	DECIDUOUS	6,6,7
61337	DECIDUOUS	6,6,6
61447	CONIFEROUS	20
61498	DECIDUOUS	12

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**LEGEND**

<b>EXISTING</b>	<b>EXISTING</b>
DECIDUOUS TREE	STORM DRAIN CLEAN OUT
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FIRE HYDRANT	STORM DRAIN AREA DRAIN
WATER BLOWOFF	STORM DRAIN MANHOLE
WATER METER	GAS METER
WATER VALVE	GAS VALVE
DOUBLE CHECK VALVE	GUY WIRE ANCHOR
AIR RELEASE VALVE	UTILITY POLE
SANITARY SEWER CLEAN OUT	POWER VAULT
SANITARY SEWER MANHOLE	POWER JUNCTION BOX
SIGN	POWER PEDESTAL
STREET LIGHT	COMMUNICATIONS VAULT
MAILBOX	COMMUNICATIONS JUNCTION BOX
	COMMUNICATIONS RISER
	<b>EXISTING</b>
RIGHT-OF-WAY LINE	---
BOUNDARY LINE	---
PROPERTY LINE	---
CENTERLINE	---
DITCH	---
CURB	---
EDGE OF PAVEMENT	---
EASEMENT	---
FENCE LINE	---
GRAVEL EDGE	---
POWER LINE	---
OVERHEAD WIRE	---
COMMUNICATIONS LINE	---
FIBER OPTIC LINE	---
GAS LINE	---
STORM DRAIN LINE	---
SANITARY SEWER LINE	---
WATER LINE	---
RECLAIMED WATER LINE	---

AKS DRAWING FILE: 9806-09\_EXCONDDWG\_LAYOUT: C004

NOT FOR CONSTRUCTION

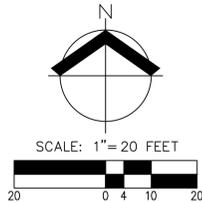
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**13TH & 14TH AVENUE IMPROVEMENTS**  
 WASHINGTON COUNTY OREGON  
 TAX MAPS 1N3330A, 1N3330D

**EXISTING CONDITIONS PLAN**

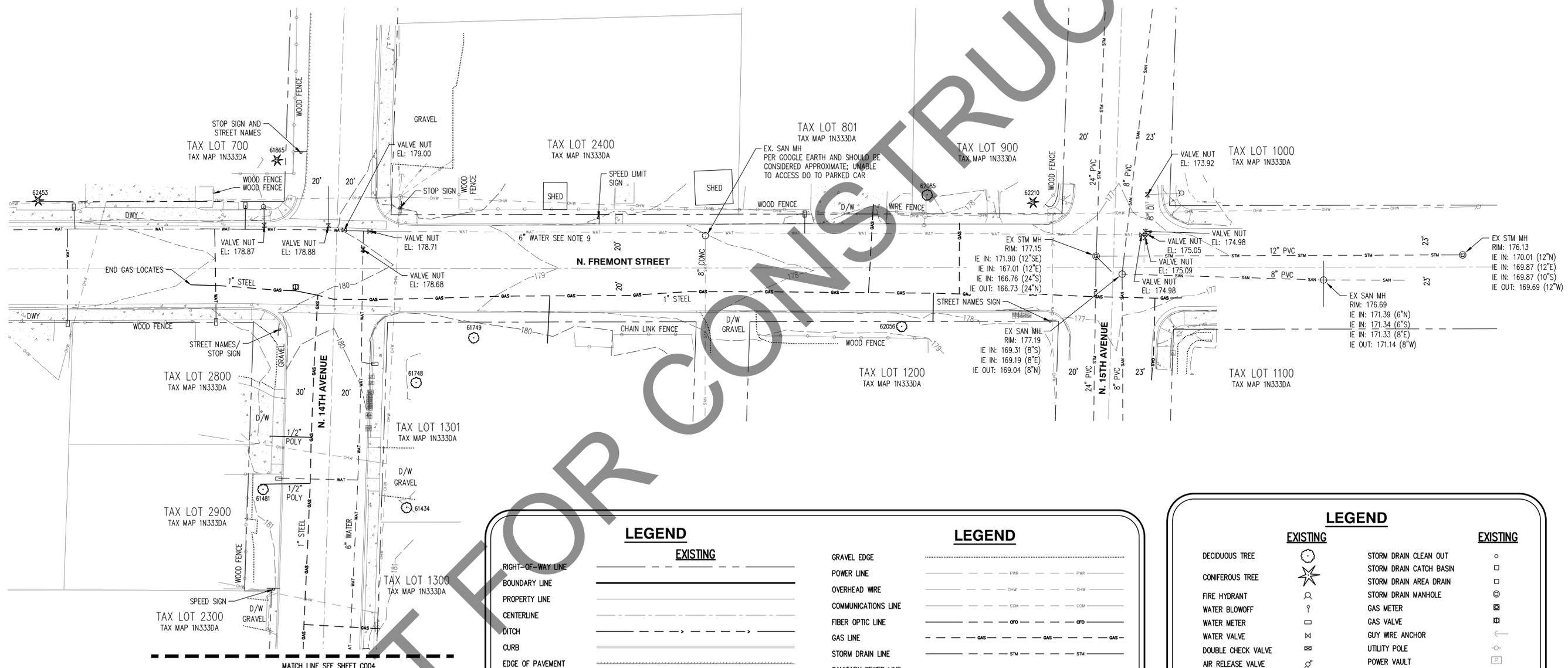
DESIGNED BY: ---  
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 BENJAMIN R HUFF  
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 RENEWS: 6/30/27

JOB NUMBER  
**9806-09**  
 SHEET  
**C004**



TREE TABLE		
TREE NUMBER	TYPE	DBH (IN.)
61434	DECIDUOUS	6,6.7
61481	DECIDUOUS	6
61748	DECIDUOUS	38
61749	DECIDUOUS	39
61865	CONIFEROUS	15,16
62056	DECIDUOUS	10
62085	DECIDUOUS	6,9
62210	CONIFEROUS	15
62453	CONIFEROUS	20

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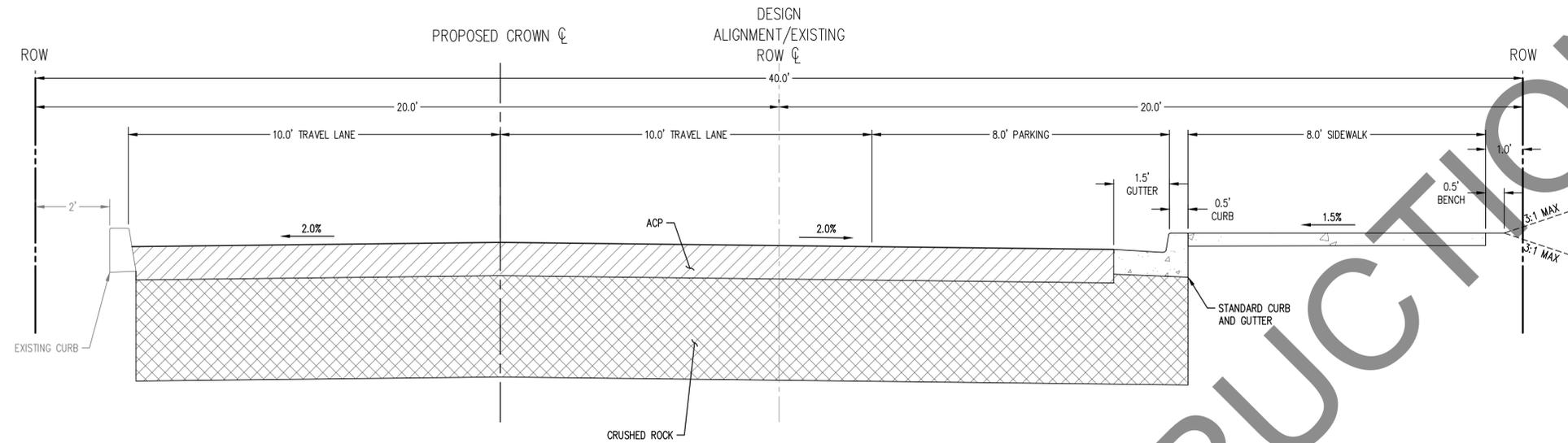
**LEGEND**

RIGHT-OF-WAY LINE	-----	GRAVEL EDGE	.....
BOUNDARY LINE	=====	POWER LINE	----- PWR ----- PWR
PROPERTY LINE	=====	OVERHEAD WIRE	----- OHW ----- OHW
CENTERLINE	=====	COMMUNICATIONS LINE	----- COM ----- COM
DITCH	----->	FIBER OPTIC LINE	----- FPO ----- FPO
CURB	=====	GAS LINE	----- GAS ----- GAS
EDGE OF PAVEMENT	=====	STORM DRAIN LINE	----- STM ----- STM
EASEMENT	-----	SANITARY SEWER LINE	----- SAN ----- SAN
FENCE LINE	-----	WATER LINE	----- WAT ----- WAT
		RECLAIMED WATER LINE	----- NPWAT ----- NPWAT

**LEGEND**

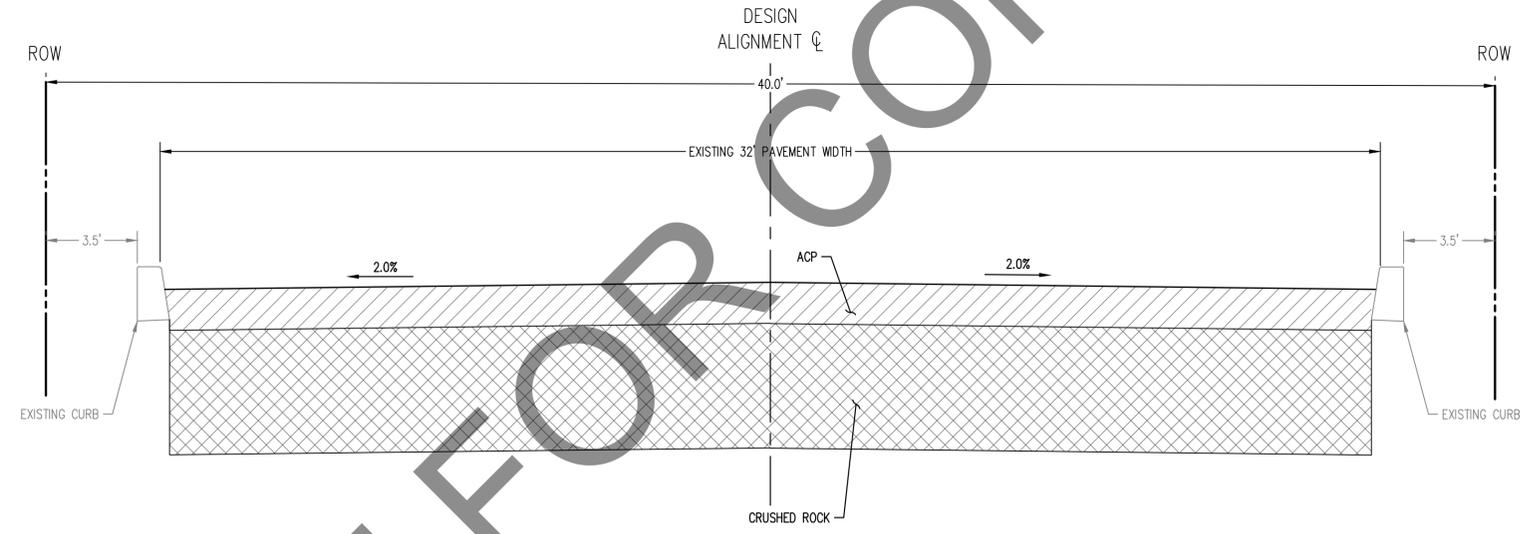
DECIDUOUS TREE		EXISTING	STORM DRAIN CLEAN OUT		EXISTING
CONIFEROUS TREE		EXISTING	STORM DRAIN CATCH BASIN		EXISTING
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WATER BLOWOFF		EXISTING	STORM DRAIN MANHOLE		EXISTING
WATER METER		EXISTING	GAS VALVE		EXISTING
WATER VALVE		EXISTING	GUY WIRE ANCHOR		EXISTING
DOUBLE CHECK VALVE		EXISTING	UTILITY POLE		EXISTING
AIR RELEASE VALVE		EXISTING	POWER VAULT		EXISTING
SANITARY SEWER CLEAN OUT		EXISTING	POWER JUNCTION BOX		EXISTING
SANITARY SEWER MANHOLE		EXISTING	POWER PEDESTAL		EXISTING
SIGN		EXISTING	COMMUNICATIONS VAULT		EXISTING
STREET LIGHT		EXISTING	COMMUNICATIONS JUNCTION BOX		EXISTING
MAILBOX		EXISTING	COMMUNICATIONS RISER		EXISTING

NOT FOR CONSTRUCTION



- NOTES:**
- SEE ROADWAY PLANS FOR FULL EXTENTS OF ROAD IMPROVEMENTS.
  - DRIVEWAYS, TURNOUTS, CURB RAMPS, AND INTERSECTIONS NOT REFLECTED IN TYPICAL CROSS SECTIONS.
  - PROPOSED STREET SECTION THICKNESSES TO BE DETERMINED.

**N 14TH AVE**  
COLLECTOR STREET CLASSIFICATION  
N 14TH AVE CL ALIGNMENT  
NTS



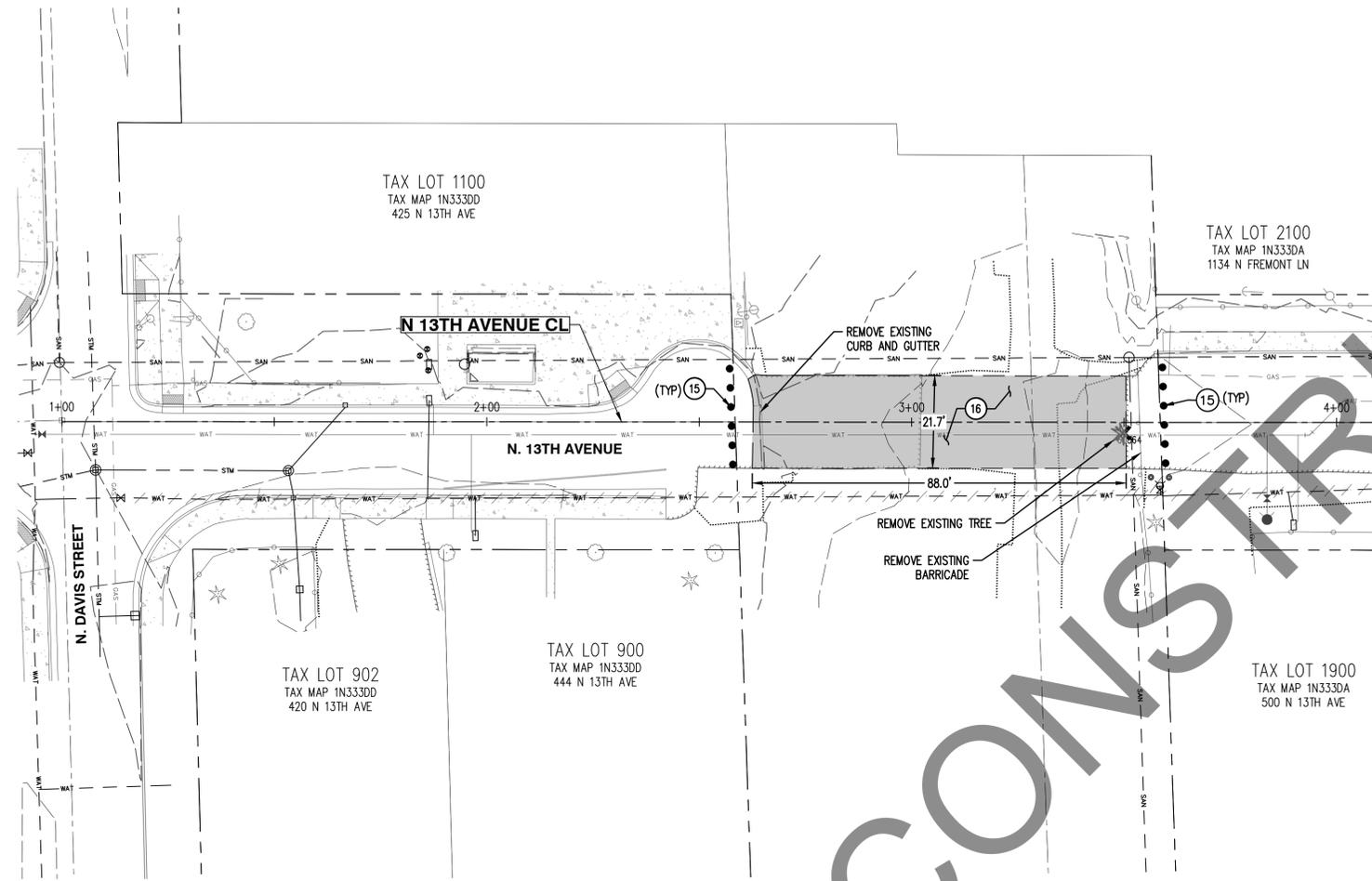
**N FREMONT ST**  
COLLECTOR STREET CLASSIFICATION  
N FREMONT ST ALIGNMENT  
NTS

DESIGNED BY: LAH  
DRAWN BY: CSR  
MANAGED BY: AR  
CHECKED BY: JAW

DATE: 10/31/2025  
RENEWAL DATE: 06/30/2026  
REVISIONS

JOB NUMBER  
9806-09

SHEET  
**C090**



**LEGEND**

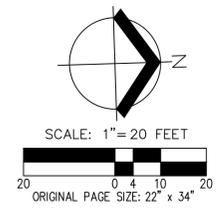
- NEW FINE GRAIN PERVIOUS CONCRETE WALK
- NEW STANDARD CONCRETE WALK
- NEW ASPHALT
- DETECTABLE WARNING SURFACE
- PERVIOUS CONCRETE DRIVEWAY/TRANSITION PANEL
- LANDING HATCH
- SAWCUT
- DISTURBANCE LIMITS
- EXISTING TREE TO BE REMOVED

**STREET KEYED NOTES**

1. INSTALL PERVIOUS CONCRETE SIDEWALK.
- 1A. INSTALL STANDARD CONCRETE SIDEWALK.
2. INSTALL CURB RAMP WITH DETECTABLE WARNING SURFACE.
3. INSTALL PERVIOUS CONCRETE RESIDENTIAL DRIVEWAY AND DRIVEWAY WINGS.
4. ADJUST STRUCTURE TO FINISHED GRADE.
5. INSTALL CURB AND GUTTER.
- 5A. INSTALL VERTICAL CURB.
6. INSTALL PERVIOUS CONCRETE DRIVEWAY TRANSITION PANEL.
7. INSTALL AC DRIVEWAY TRANSITION PANEL.
8. REMOVE EXISTING SIGN AND INSTALL SALVAGED SIGN ON NEW POST AND FOOTING.
9. SALVAGE AND RELOCATE EXISTING MAILBOX.
10. INSTALL CONCRETE PATH AND TIE IN TO EXISTING.
11. INSTALL CROSSWALK STRIPING.
12. INSTALL FULL DEPTH AC PAVEMENT.
13. REMOVE EXISTING PAVEMENT MARKINGS.
14. REMOVE AND REINSTALL CHAIN LINK FENCE.
15. INSTALL REMOVABLE BOLLARD.
16. INSTALL TEMPORARY ACP ACCESS.

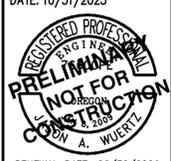
**NOTES:**

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- CONTRACTOR TO RESTORE ALL EXISTING WEEPHOLES TO PRE-EXISTING CONDITIONS AND RECONNECT TO EXISTING PRIVATE LINES AS NECESSARY.
- CONTRACTOR TO POTHOLE EXISTING UTILITIES PRIOR TO INSTALLATION OF ANY STORMWATER INFRASTRUCTURE TO VERIFY LOCATION AND ELEVATION OF EXISTING PIPE. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO INSTALLATION.
- ALL PERMANENT STRIPING SHALL BE SURFACE INSTALLED PER THE APPLICABLE ODOT STANDARD DRAWINGS UNLESS OTHERWISE NOTED. SEE DETAIL TM500.
- COORDINATE WITH THE CITY FOR LOCATION OF SIGNING AND STRIPING PRIOR TO INSTALLATION.
- ALL SALVAGED SIGNS TO BE INSTALLED ON NEW POST AND MOUNT.
- CONTRACTOR TO ENSURE A MINIMUM OF 4' OF SIDEWALK CLEARANCE AROUND MAILBOXES, HYDRANTS, SIGNS, AND ALL OTHER VERTICAL OBSTRUCTIONS WITHIN THE PROJECT AREA. COORDINATE WITH THE CITY TO WIDEN SIDEWALK AS NECESSARY.



NOT FOR CONSTRUCTION

DESIGNED BY:	LAH
DRAWN BY:	CSR
MANAGED BY:	AR
CHECKED BY:	JAW



RENEWAL DATE: 06/30/2026

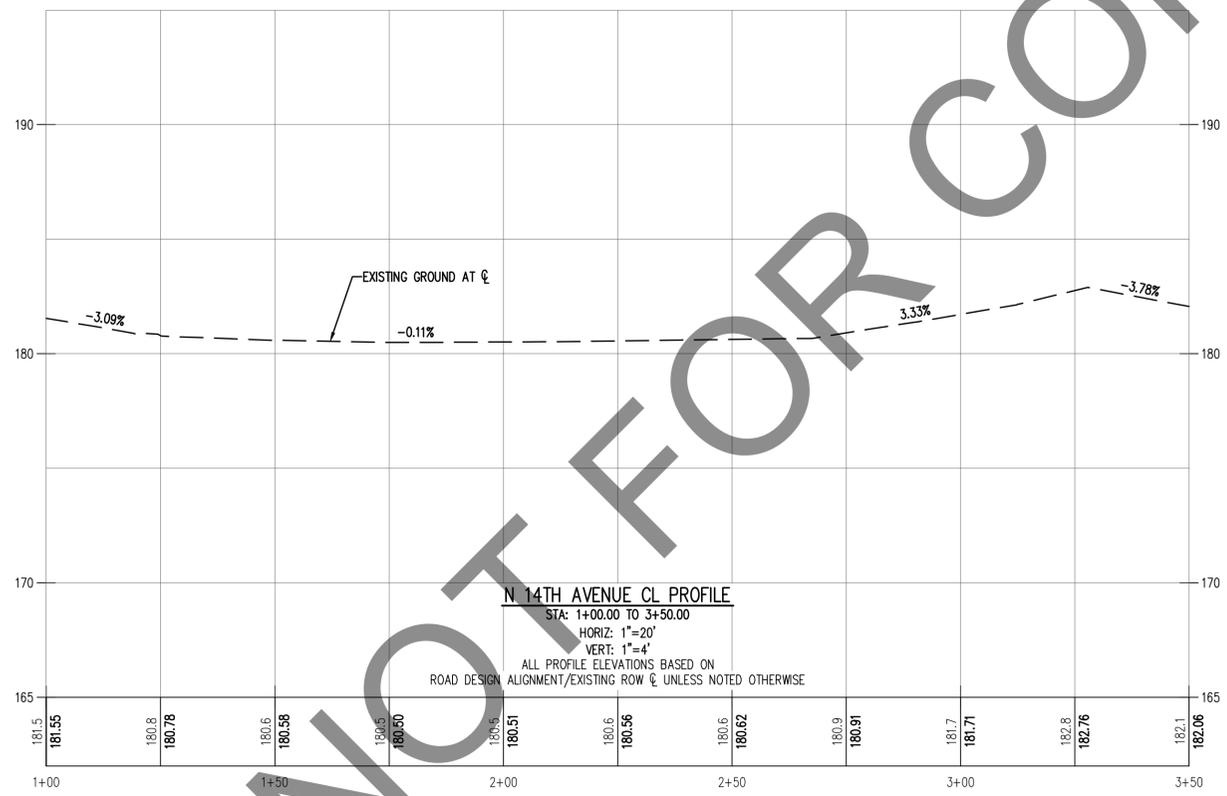
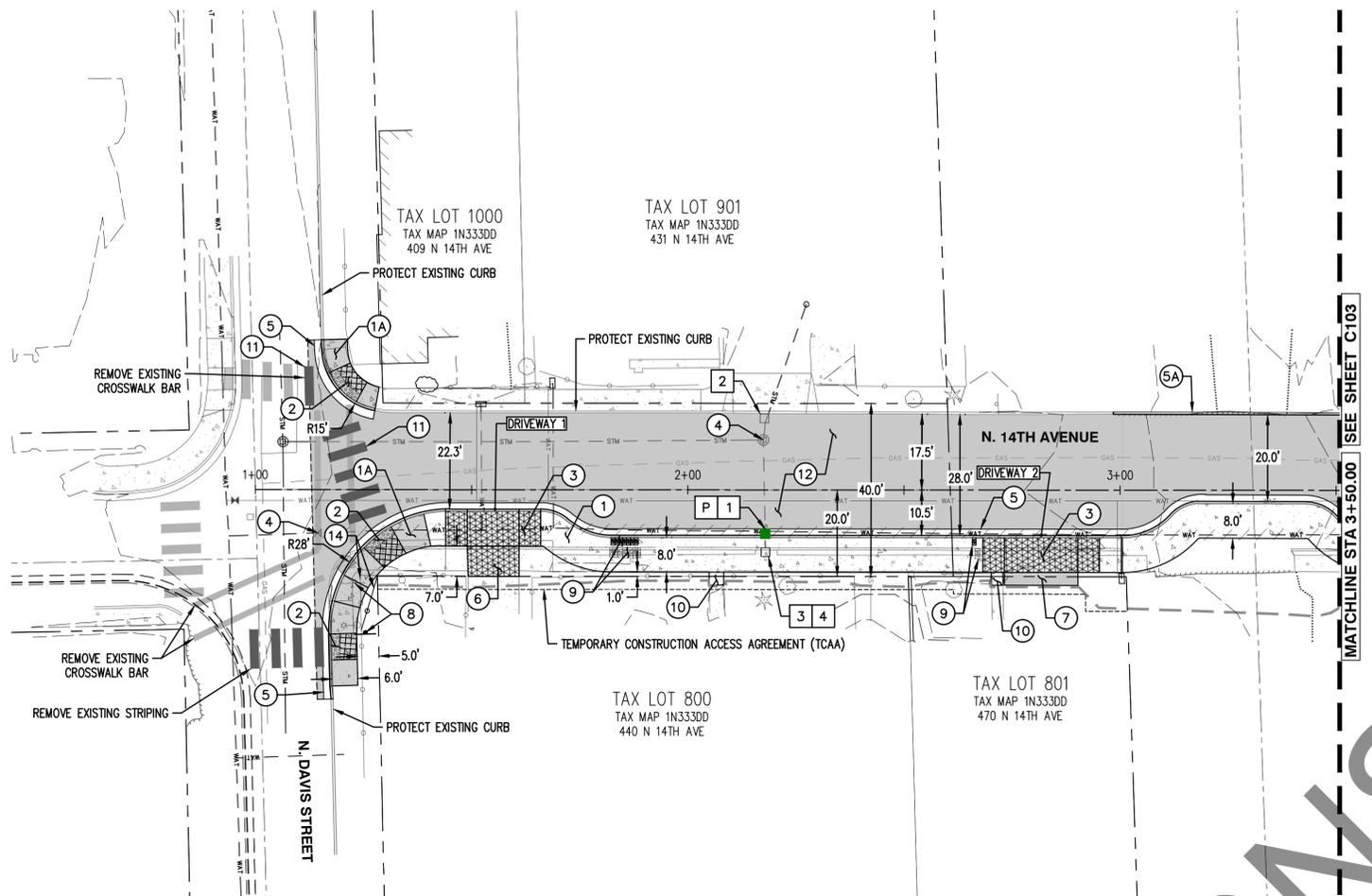
REVISIONS

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JOB NUMBER  
**9806-09**

SHEET  
**C100**

AKS DRAWING FILE: 9806-09\_C100\_STR.DWG | LAYOUT: C102



DRIVEWAY #	DRIVEWAY WIDTH (FT)	ALIGNMENT	STATION	OFFSET (FT)
1	12	N 14TH AVENUE CL	1+55.44	4.50'
2	17	N 14TH AVENUE CL	2+81.76	10.50'

### LEGEND

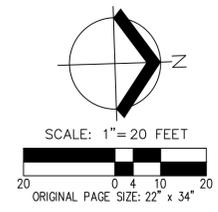
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- NEW STANDARD CONCRETE WALK
- NEW ASPHALT
- DETECTABLE WARNING SURFACE
- PERVIOUS CONCRETE DRIVEWAY/TRANSITION PANEL
- LANDING HATCH
- SAWCUT DISTURBANCE LIMITS
- EXISTING TREE TO BE REMOVED

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  - INSTALL STANDARD CONCRETE SIDEWALK.
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  - INSTALL VERTICAL CURB.
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  - REMOVE EXISTING SIGN AND INSTALL SALVAGED SIGN ON NEW POST AND FOOTING.
  - SALVAGE AND RELOCATE EXISTING MAILBOX.
  - REMOVE EXISTING MAILBOXES AND INSTALL COMMUNITY BOX UNIT. AKS TO COORDINATE WITH USPS FOR PLACEMENT.
  - INSTALL CONCRETE PATH AND TIE IN TO EXISTING.
  - INSTALL CONCRETE STRIPING.
  - INSTALL FULL DEPTH AC PAVEMENT.
  - NOT USED.
  - REMOVE AND REINSTALL CHAIN LINK FENCE.
  - INSTALL REMOVABLE BOLLARD.
  - INSTALL TEMPORARY ACP ACCESS.
  - REMOVE EXISTING CURB.
  - REMOVE EXISTING BUSH.
  - REMOVE EXISTING BARRICADE.
  - EXISTING TREE TO BE REMOVED.

- #### STORM KEYED NOTES
- CONTRACTOR TO POTHOLE TO VERIFY LOCATION, SIZE, AND DEPTH OF EXISTING UTILITIES.
  - INSTALL G-2 STORM INLET OVER EXISTING LINE.
  - ADJUST INLET TO FINISHED GRADE.
  - REMOVE EXISTING STORM INLET.
  - REMOVE EXISTING STORM LINE.
  - INSTALL G-2 STORM INLET.
  - INSTALL CURB INLET.
  - INSTALL 12" PVC STORM PIPE.
  - INSTALL 48" STORM STD MH.
  - CONNECT TO EXISTING MH AT THE INTERSECTION OF GRAY ST AND 14TH AVE.

- #### NOTES
- CONTRACTOR TO RESTORE ALL DISTURBED GROUND/LANDSCAPING TO PRE-EXISTING CONDITION FOLLOWING CONSTRUCTION INCLUDING BUT NOT LIMITED TO LAWN, MULCH, AND SHRUBS.
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  - COORDINATE WITH THE CITY FOR LOCATION OF SIGNING AND STRIPING PRIOR TO INSTALLATION.
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30% SUBMITTAL



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 TUALATIN, OR 97062  
 503.563.6151  
 WWW.AKS-ENG.COM  
 ENGINEERING · SURVEYING · NATURAL RESOURCES  
 FORESTRY · PLANNING · LANDSCAPE ARCHITECTURE

**13TH & 14TH AVE  
 IMPROVEMENTS  
 CORNELIUS OREGON**

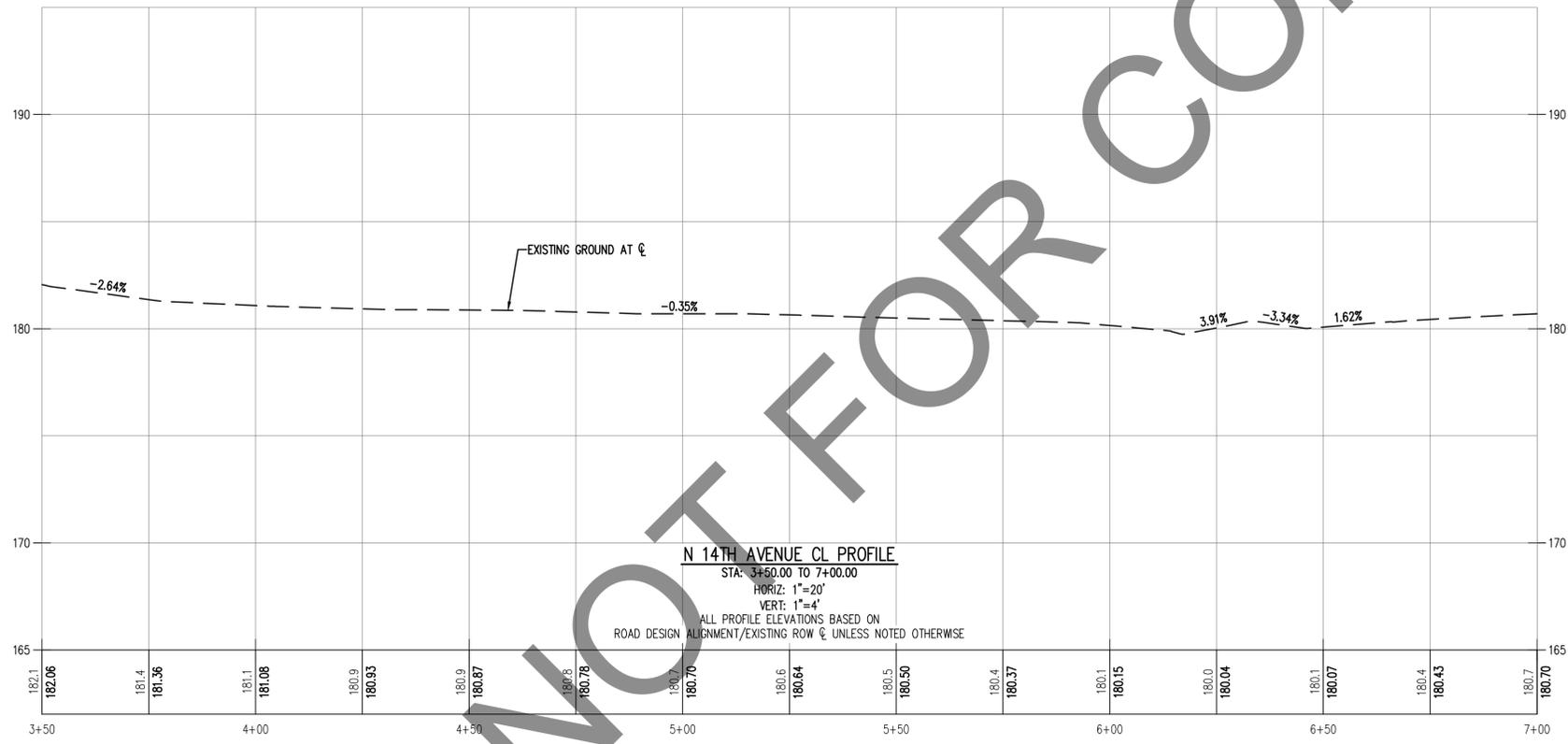
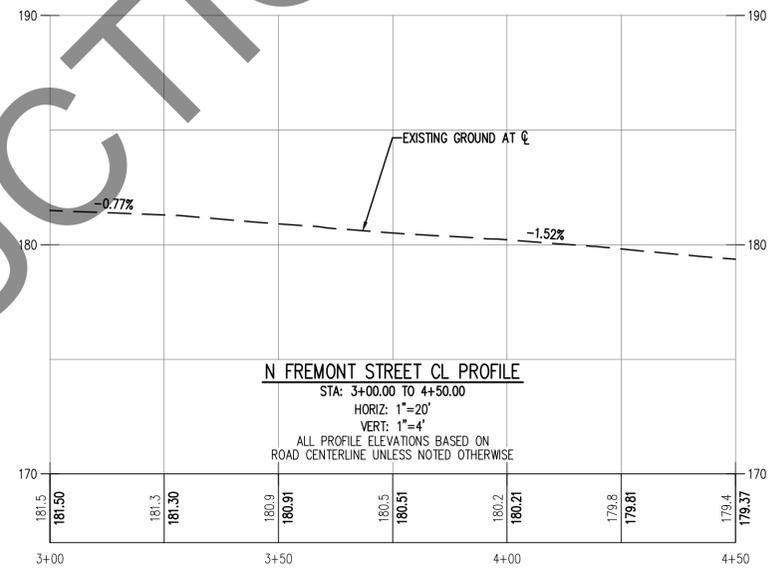
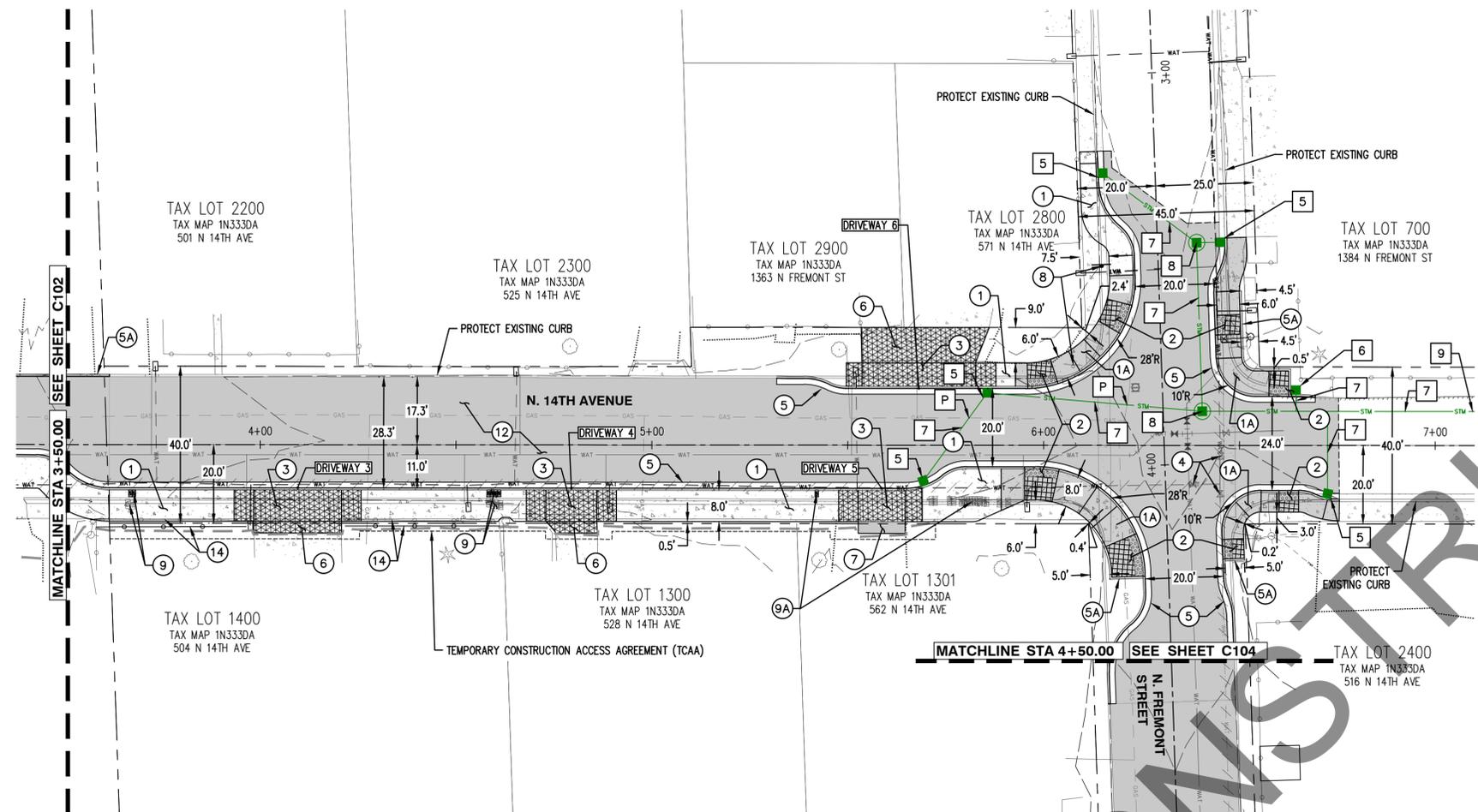
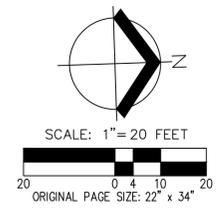
**N 14TH AVE PLAN AND  
 PROFILE STA 1+00 TO 3+50**

DESIGNED BY: LAH  
 DRAWN BY: CSR  
 MANAGED BY: AR  
 CHECKED BY: JAW

DATE: 10/31/2025  
  
 RENEWAL DATE: 06/30/2026  
 REVISIONS:

JOB NUMBER  
**9806-09**  
 SHEET  
**C102**

DRIVEWAY TABLE				
DRIVEWAY #	DRIVEWAY WIDTH (FT)	ALIGNMENT	STATION	OFFSET (FT)
3	22.5	N 14TH AVENUE CL	4+09.56	11.00'
4	13	N 14TH AVENUE CL	4+79.46	11.00'
5	12	N 14TH AVENUE CL	5+58.70	11.00'
6	29	N 14TH AVENUE CL	5+68.12	14.50'



**LEGEND**

- NEW FINE GRAIN PERVIOUS CONCRETE WALK
- NEW STANDARD CONCRETE WALK
- NEW ASPHALT
- DETECTABLE WARNING SURFACE
- PERVIOUS CONCRETE DRIVEWAY/TRANSITION PANEL
- LANDING HATCH
- SAWCUT
- DISTURBANCE LIMITS
- EXISTING TREE TO BE REMOVED

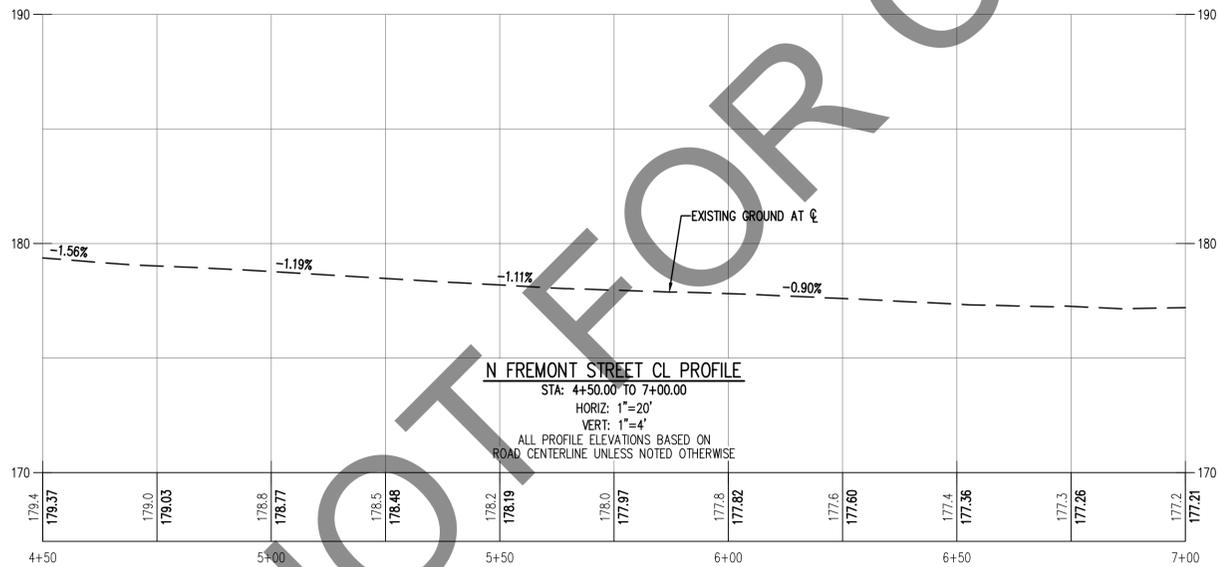
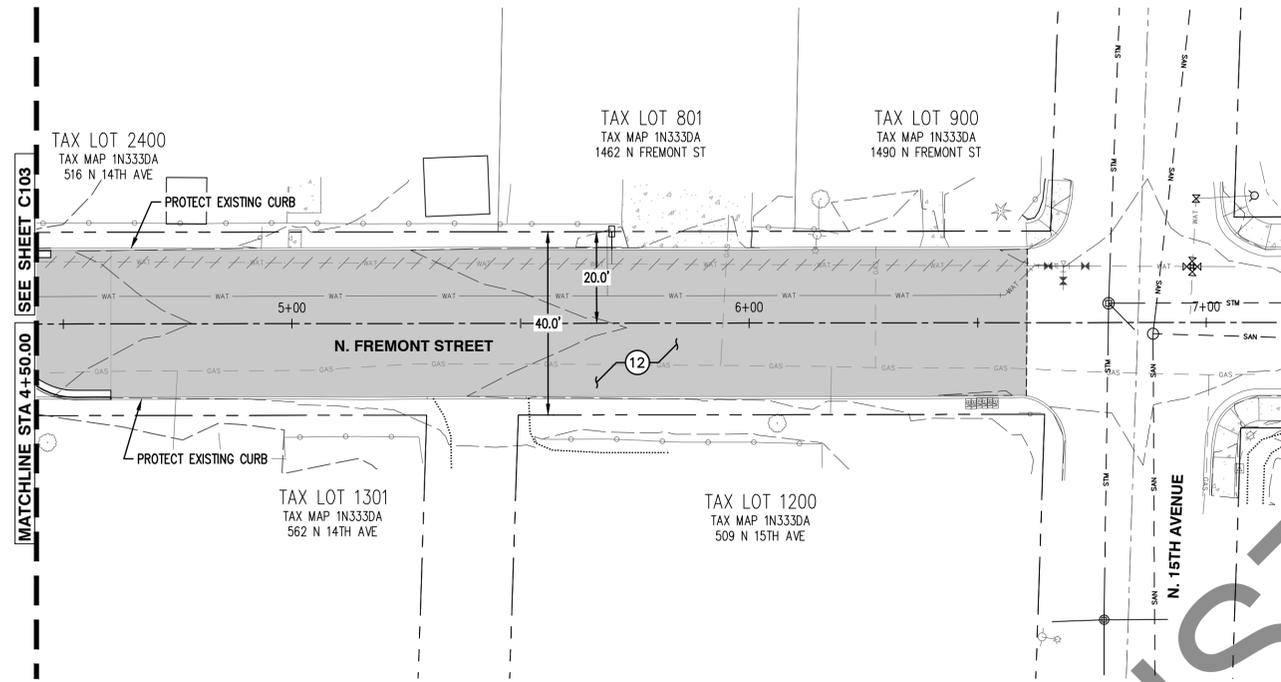
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AKS DRAWING FILE: 9806-09\_C103\_STRIPING\_LAYOUT\_C103

NOT FOR CONSTRUCTION

30% SUBMITTAL



**LEGEND**

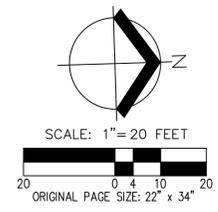
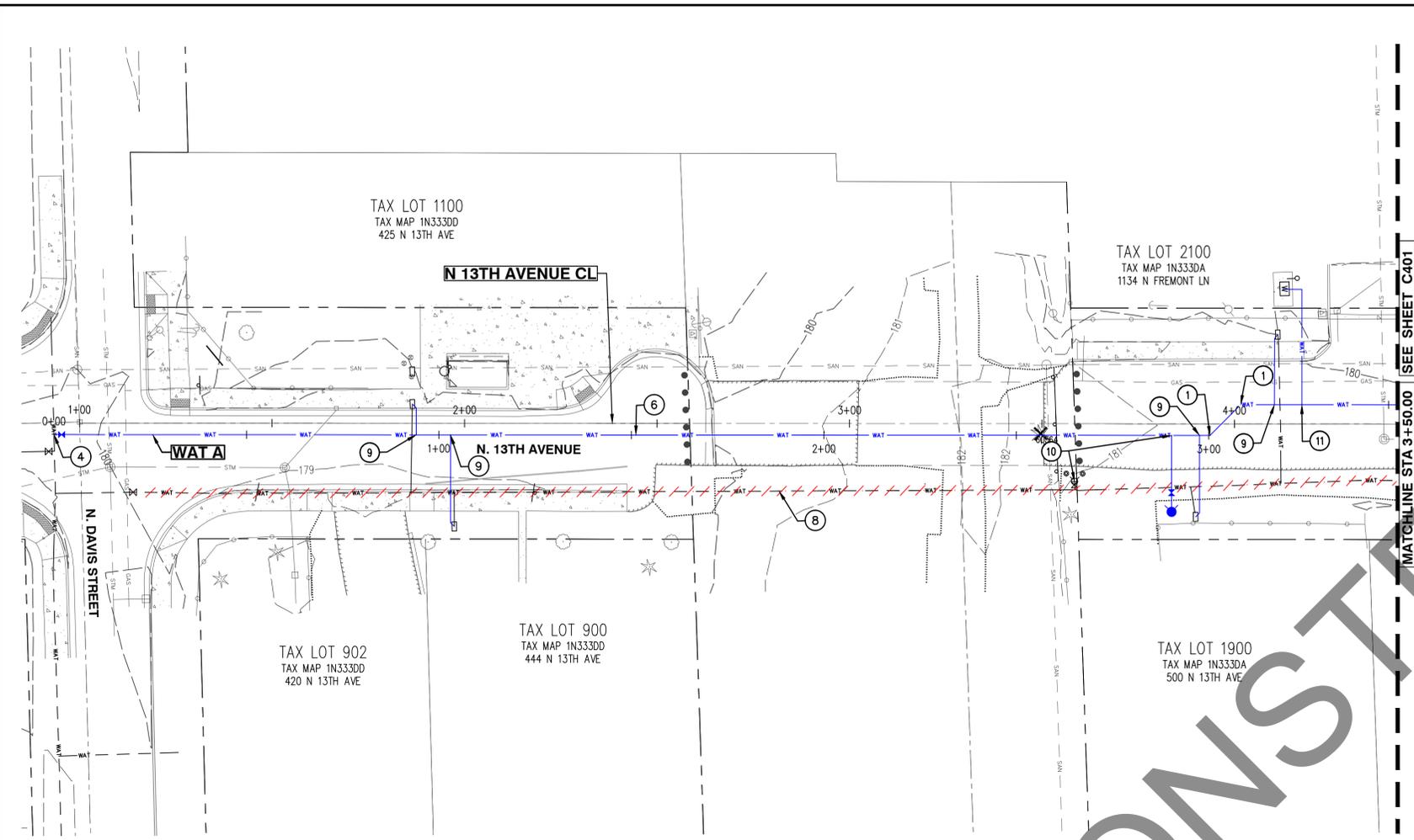
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DESIGNED BY:	LAH
DRAWN BY:	CSR
MANAGED BY:	AR
CHECKED BY:	JAW
DATE:	10/31/2025
RENEWAL DATE:	06/30/2026
REVISIONS:	

AKS DRAWING FILE: 9806-09\_C400\_WAT.DWG | LAYOUT: C400



**AKS**  
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 12065 SW HERMAN RD, STE 100  
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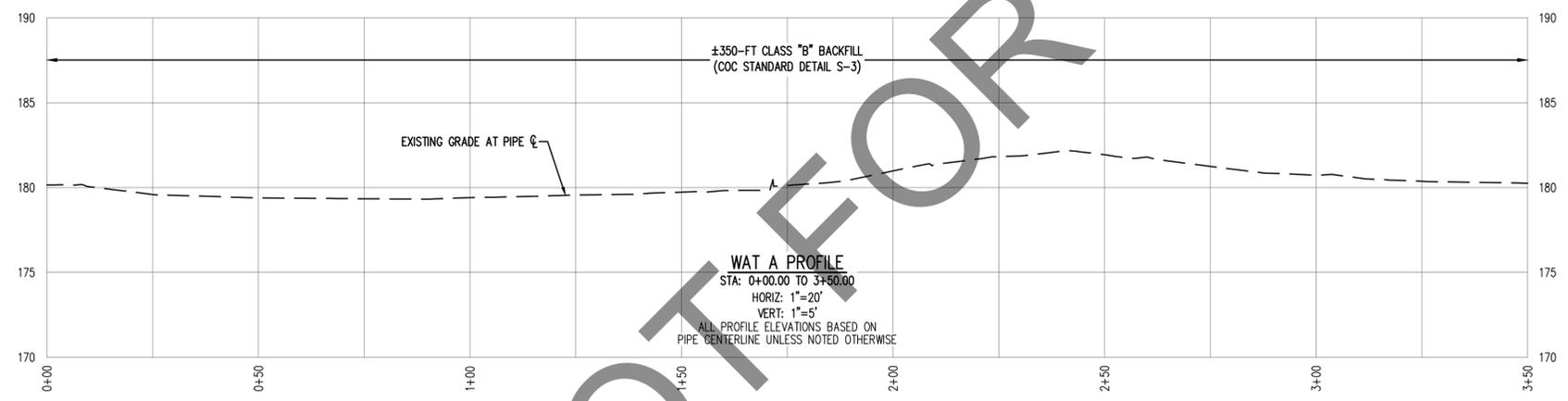
ENGINEERING - SURVEYING - NATURAL RESOURCES  
 FORESTRY - PLANNING - LANDSCAPE ARCHITECTURE

**13TH & 14TH AVE  
 IMPROVEMENTS  
 CORNELIUS OREGON**

**WAT A STA 0+00 - 3+50  
 PLAN AND PROFILE**

- # WATER KEYED NOTES:**
1. INSTALL 8" 45° DR18 C900 MJ BEND. DEFLECT JOINT PER MANUFACTURER'S RECOMMENDATION AS NEEDED. MAXIMUM ALLOWED DEFLECTION AT ANY JOINT SHALL BE 3'.
  2. INSTALL 8" X 8" DR18 C900 CROSS FITTING WITH VALVES.
  3. INSTALL 8" X 8" DR18 C900 TEE FITTING.
  4. CONNECT TO EXISTING WATER MAIN (HOT TAP)
  5. CONNECT TO EXISTING WATER MAIN AT EXISTING VALVE. REMOVE EXISTING WATERLINE AS NEEDED TO INSTALL NEW PIPE.
  6. CONNECT TO EXISTING WATER MAIN (SHUTDOWN TIE IN). REMOVE EXISTING PIPE AND FITTINGS AS REQUIRED FOR CONSTRUCTION.
  7. INSTALL NEW 8" DR18 C900 WATER MAIN WITH A MINIMUM OF 3.0-FT COVER FULLY RESTRAINED.
  8. CAP DEAD END PIPE FOR FUTURE CONNECTION.
  9. ABANDON EXISTING WATER MAIN IN PLACE.
  10. INSTALL NEW 1" WATER METER SERVICE AND CONNECT TO PUBLIC SIDE OF EXISTING METER. REPLACE EXISTING METER IF NECESSARY.
  11. REMOVE EXISTING FIRE HYDRANT ASSEMBLY BOLLARDS. INSTALL NEW FIRE HYDRANT ASSEMBLY AND BOLLARDS WITHIN THE ROW.
  12. CONNECT EXISTING PRIVATE FDC TO NEW WATER MAINLINE.

LEGEND	
EXISTING GROUND CONTOUR (1 FT)	--- 181 ---
EXISTING GROUND CONTOUR (5 FT)	--- 180 ---
FINISHED GRADE CONTOUR (1 FT)	— 181 —
FINISHED GRADE CONTOUR (5 FT)	— 180 —
EXISTING WATER TO BE ABANDONED/REMOVED	--- / / / ---



NOT FOR CONSTRUCTION

DESIGNED BY: LAH  
 DRAWN BY: CSR  
 MANAGED BY: AR  
 CHECKED BY: JAW  
 DATE: 10/31/2025

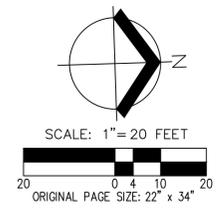
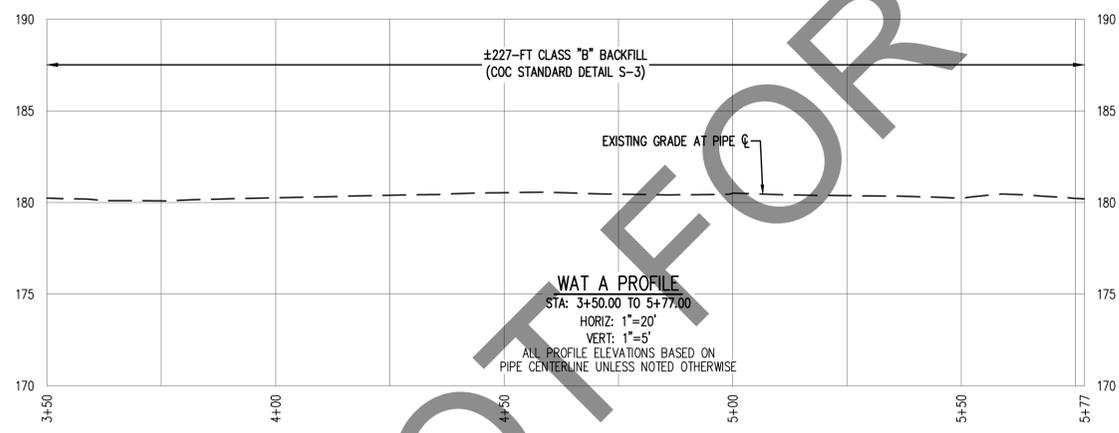
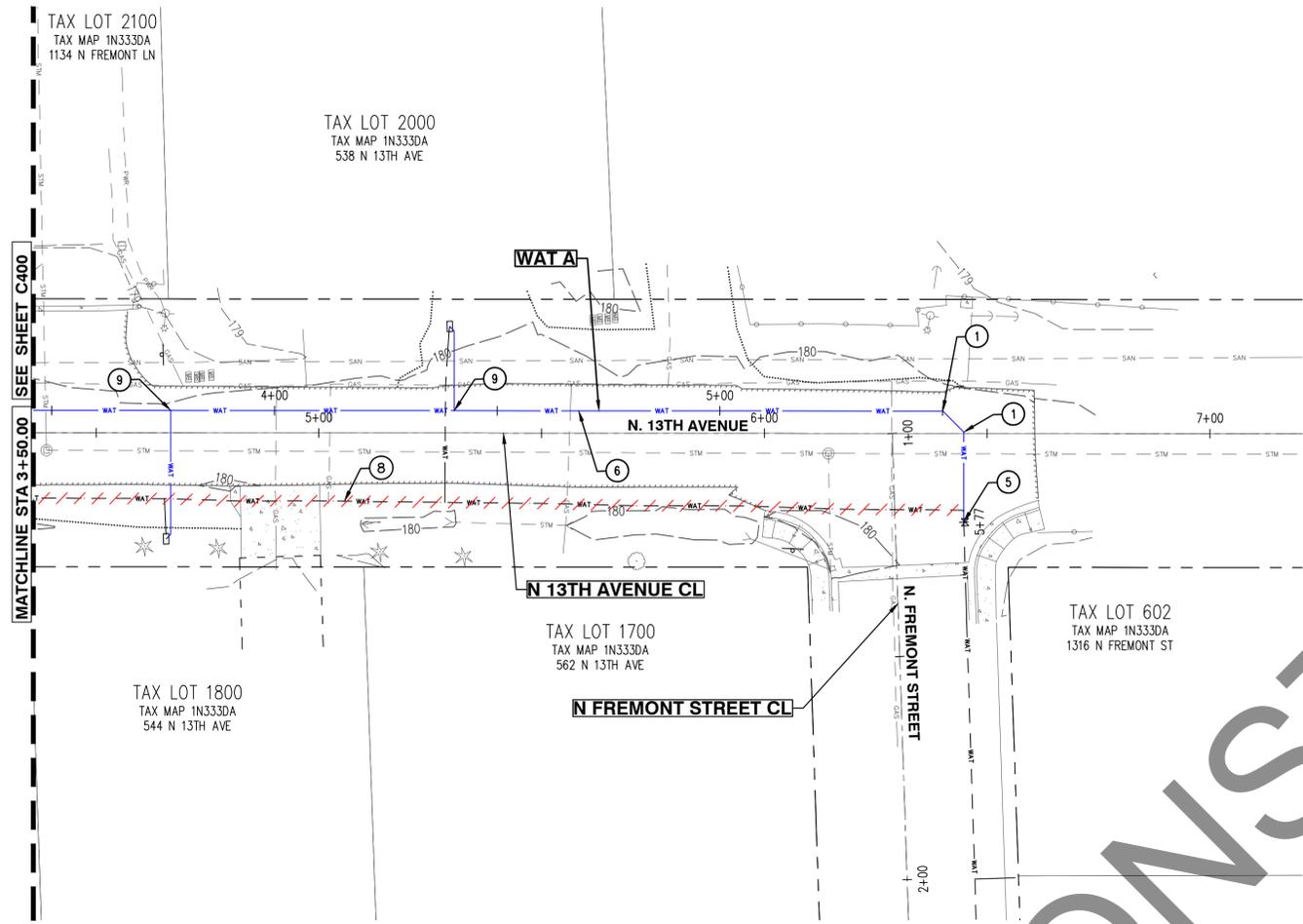


RENEWAL DATE: 06/30/2026  
 REVISIONS:

JOB NUMBER  
**9806-09**

SHEET  
**C400**

30% SUBMITTAL



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EXISTING GROUND CONTOUR (5 FT)	--- 180 ---
FINISHED GRADE CONTOUR (1 FT)	— 181 —
FINISHED GRADE CONTOUR (5 FT)	— 180 —
EXISTING WATER TO BE ABANDONED/REMOVED	- - - - -

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TUALATIN, OR 97062  
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FORESTRY · PLANNING · LANDSCAPE ARCHITECTURE

**13TH & 14TH AVE  
IMPROVEMENTS  
CORNELIUS OREGON**

**WAT A STA 3+50 - 5+77  
PLAN AND PROFILE**

DESIGNED BY: LAH  
DRAWN BY: CSR  
MANAGED BY: AR  
CHECKED BY: JAW  
DATE: 10/31/2025

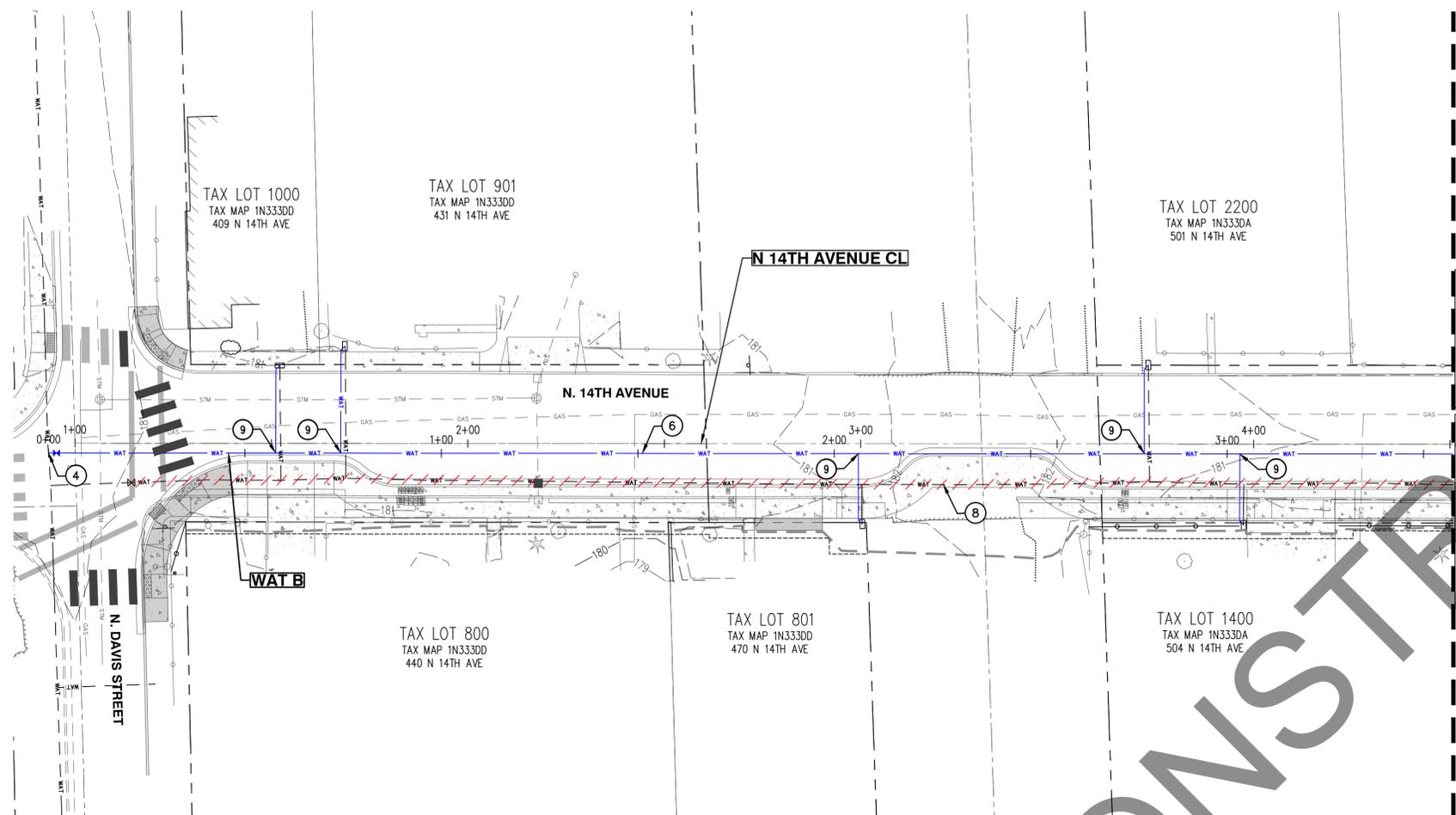
REGISTERED PROFESSIONAL ENGINEER  
**PRELIMINARY**  
NOT FOR CONSTRUCTION  
DON A. WUERST  
RENEWAL DATE: 06/30/2026

REVISIONS

JOB NUMBER  
**9806-09**

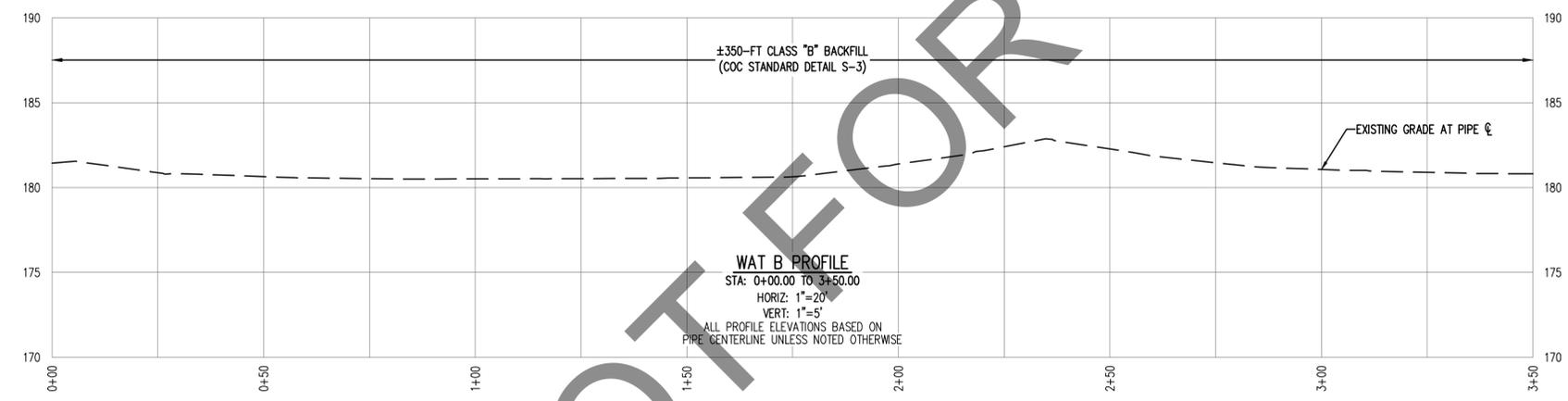
SHEET  
**C401**

30% SUBMITTAL



- WATER KEYED NOTES:**
1. INSTALL 8" 45° DR18 C900 MJ BEND. DEFLECT JOINT PER MANUFACTURER'S RECOMMENDATION AS NEEDED. MAXIMUM ALLOWED DEFLECTION AT ANY JOINT SHALL BE 3'.
  2. INSTALL 8" x 8" DR18 C900 CROSS FITTING WITH VALVES.
  3. INSTALL 8" x 8" DR18 C900 TEE FITTING.
  4. CONNECT TO EXISTING WATER MAIN (HOT TAP)
  5. CONNECT TO EXISTING WATER MAIN AT EXISTING VALVE. REMOVE EXISTING WATERLINE AS NEEDED TO INSTALL NEW PIPE.
  - 5A. CONNECT TO EXISTING WATER MAIN (SHUTDOWN TIE IN). REMOVE EXISTING PIPE AND FITTINGS AS REQUIRED FOR CONSTRUCTION.
  6. INSTALL NEW 8" DR18 C900 WATER MAIN WITH A MINIMUM OF 3.0-FT COVER FULLY RESTRAINED.
  7. CAP DEAD END PIPE FOR FUTURE CONNECTION.
  8. ABANDON EXISTING WATER MAIN IN PLACE.
  9. INSTALL NEW 1" WATER METER SERVICE AND CONNECT TO PUBLIC SIDE OF EXISTING METER. REPLACE EXISTING METER IF NECESSARY.
  10. REMOVE EXISTING FIRE HYDRANT ASSEMBLY BOLLARDS. INSTALL NEW FIRE HYDRANT ASSEMBLY AND BOLLARDS WITHIN THE ROW.
  11. CONNECT EXISTING PRIVATE FDC TO NEW WATER MAINLINE.

LEGEND	
EXISTING GROUND CONTOUR (1 FT)	--- 181 ---
EXISTING GROUND CONTOUR (5 FT)	--- 180 ---
FINISHED GRADE CONTOUR (1 FT)	— 181 —
FINISHED GRADE CONTOUR (5 FT)	— 180 —
EXISTING WATER TO BE ABANDONED/REMOVED	--- / / / ---



**AKS**  
 AKS ENGINEERING & FORESTRY, LLC  
 12065 SW HERMAN RD, STE 100  
 TUALATIN, OR 97062  
 503.563.6151  
 WWW.AKS-ENG.COM

ENGINEERING - SURVEYING - NATURAL RESOURCES  
 FORESTRY - PLANNING - LANDSCAPE ARCHITECTURE

**13TH & 14TH AVE  
 IMPROVEMENTS  
 CORNELIUS OREGON**

**WAT B STA 0+00 - 3+50  
 PLAN AND PROFILE**

DESIGNED BY: LAH  
 DRAWN BY: CSR  
 MANAGED BY: AR  
 CHECKED BY: JAW

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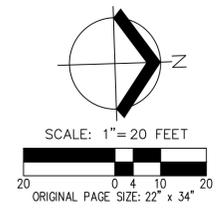
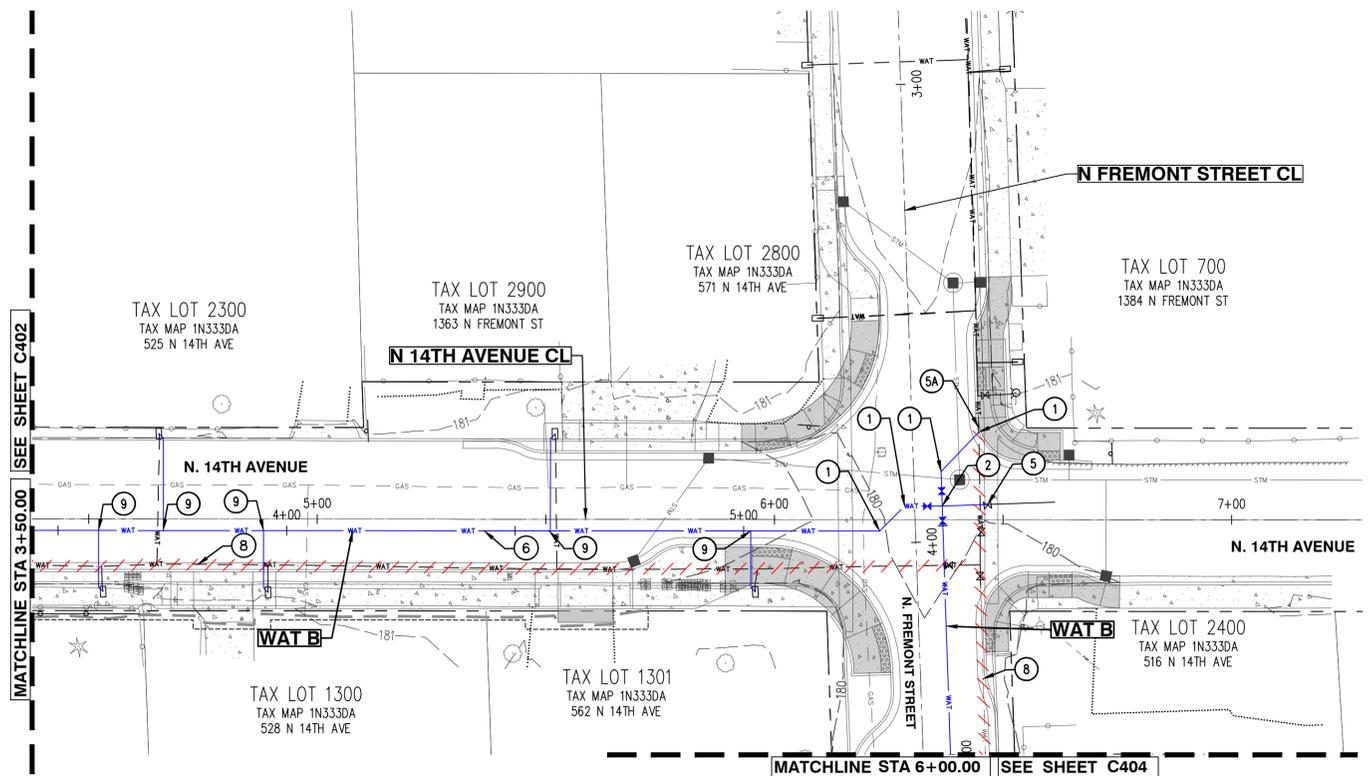
REVISIONS

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**C402**

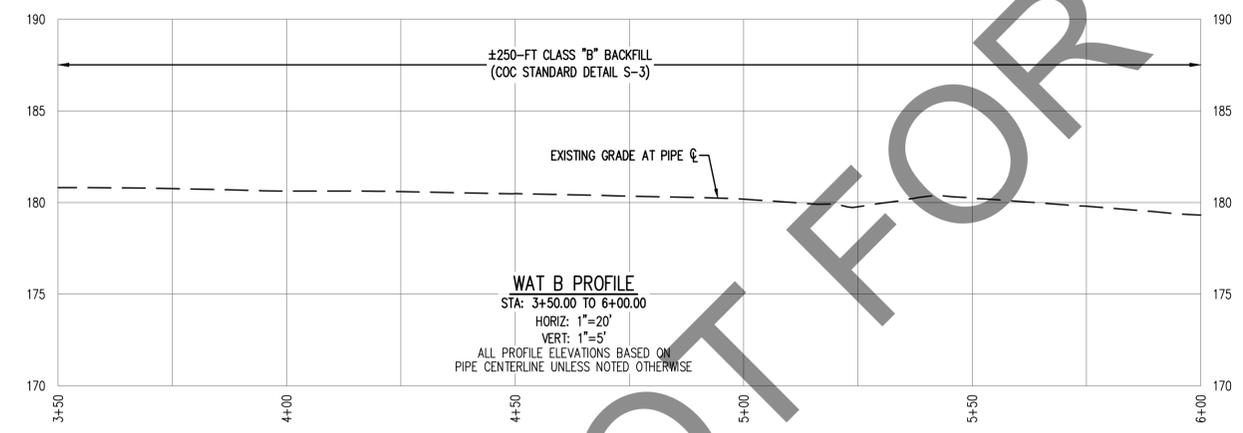
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AKS DRAWING FILE: 9806-09\_C402\_WAT.DWG | LAYOUT: C402

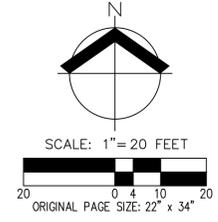
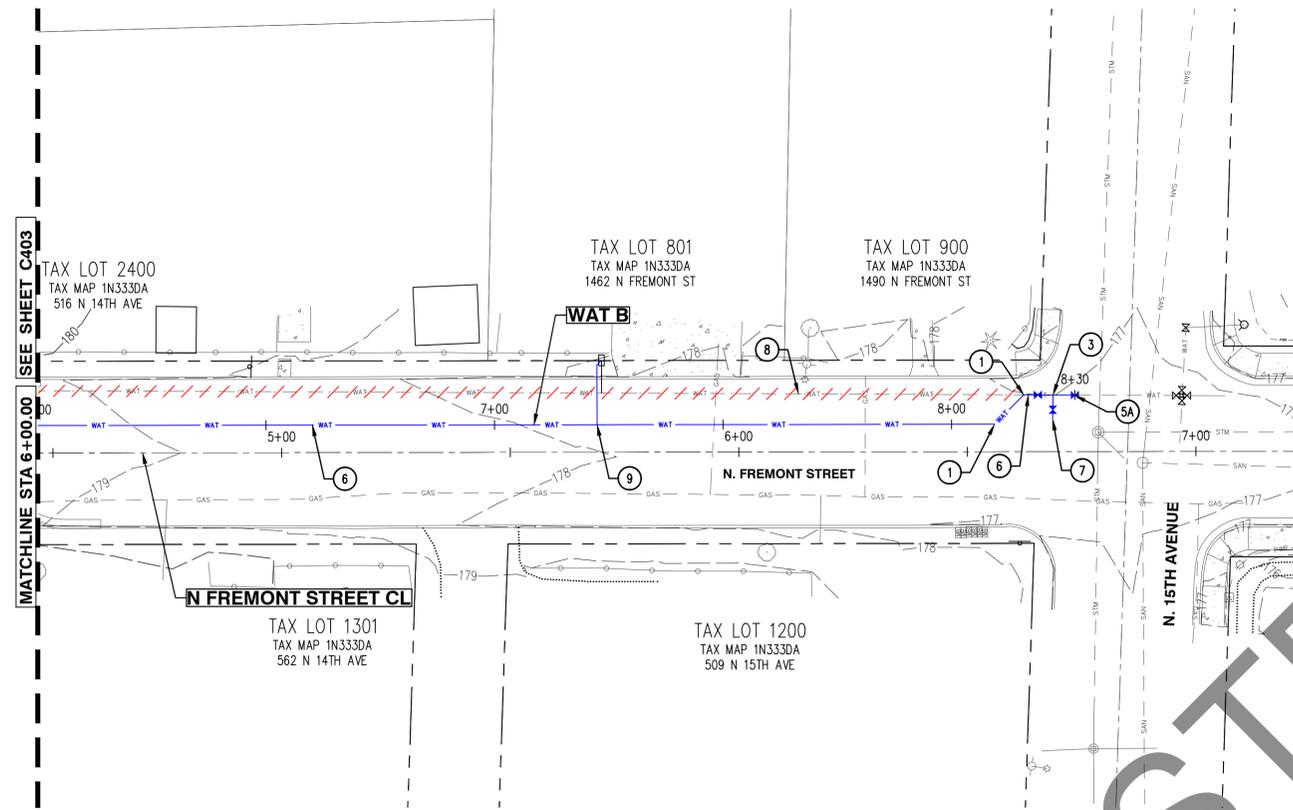


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EXISTING WATER TO BE ABANDONED/REMOVED	- - - - -

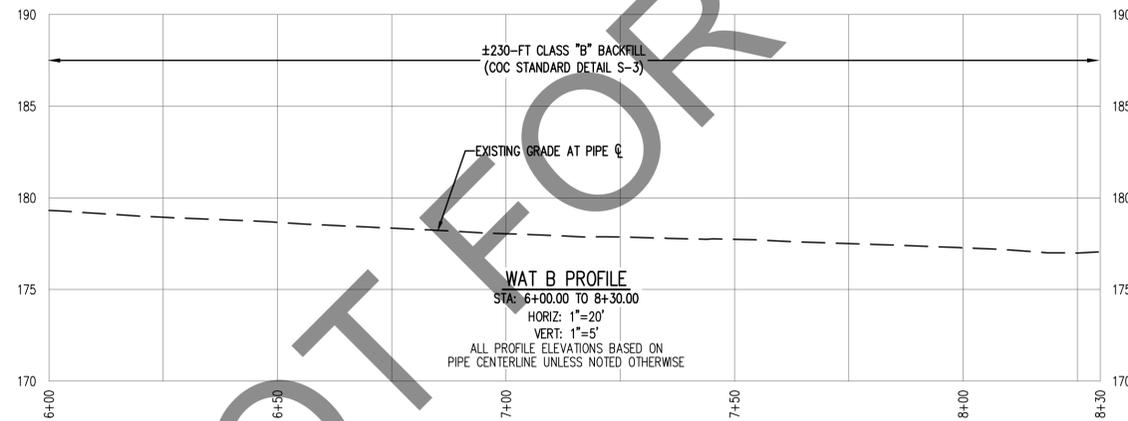


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