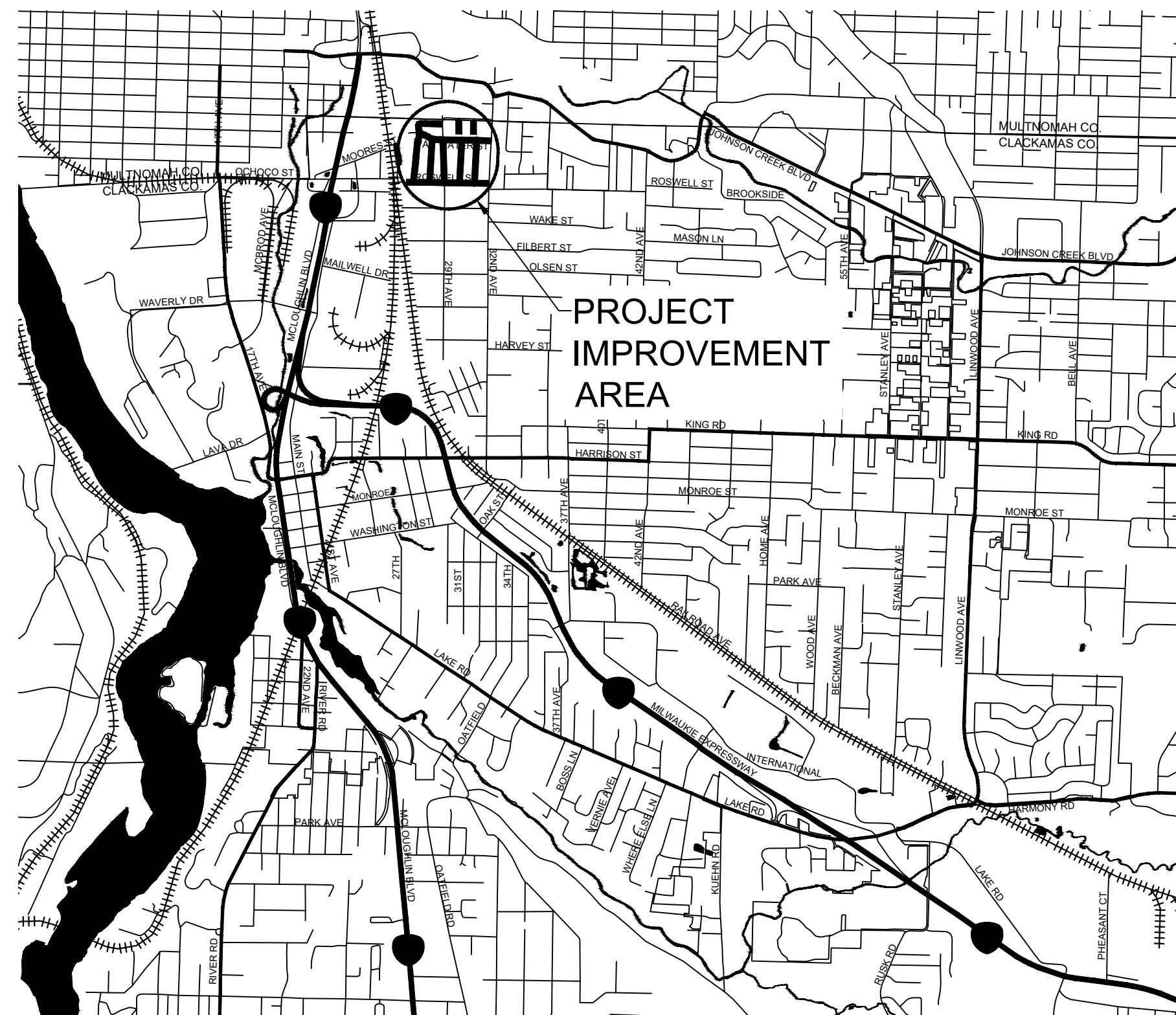


# CITY OF MILWAUKIE, OREGON

# ARDENWALD NORTH IMPROVEMENTS

## CIP 2021-W61



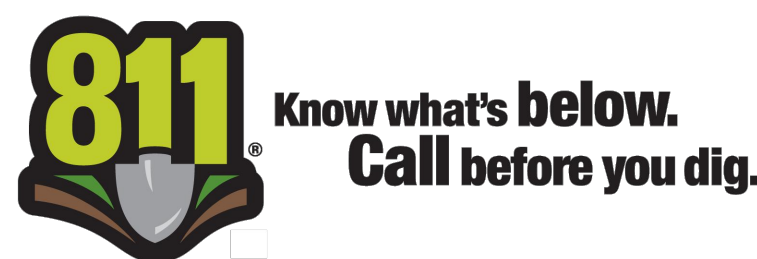
**LOCATION MAP**

Scale: N.T.S.

### ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	DEQ	DEPARTMENT OF ENVIRONMENTAL QUALITY	MH	MANHOLE	PVC	POLYVINYL CHLORIDE PIPE
ACP	ASPHALT CONCRETE PAVEMENT	DI	DUCTILE IRON	MIN	MINIMUM	RD	ROADWAY SECTION
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	DWG	DRAWING	MJ	MECHANICAL JOINT	R/W	RIGHT-OF-WAY
AWWA	AMERICAN WATER WORKS ASSOCIATION	E	EAST	MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES	SAN	SANITARY
BMP	BEST MANAGEMENT PRACTICE	EG	EXISTING GRADE	N	NORTH	STA	STATION
CB	CATCH BASIN	ELEV	ELEVATION	NOM	NOMINAL	STM	STORM
CCTV	CLOSED-CIRCUIT TELEVISION	EP	EDGE OF PAVEMENT	OFF	OFFSET	S	SOUTH
CESL	CERTIFIED EROSION AND SEDIMENT CONTROL LEAD	ESCP	EROSION AND SEDIMENT CONTROL PLAN	OPRR	OREGON PACIFIC RAILROAD	TBD	TO BE DETERMINED
CI	CAST IRON	ESMT	EASEMENT	OSD	OREGON STANDARD DETAIL	TYP	TYPICAL
CL	CENTERLINE	FLG	FLANGED	OSSC	OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION	UIC	UNDERGROUND INJECTION CONTROL
CMU	CONCRETE MASONRY UNIT	FC	FACE OF CURB	OTTCH	OREGON TEMPORARY TRAFFIC CONTROL HANDBOOK	W	WEST
COM	CITY OF MILWAUKIE	GB	GRADE BREAK	PWS	CITY OF MILWAUKIE PUBLIC WORKS STANDARDS	WM	WATER METER
		GIS	GEOGRAPHIC INFORMATION SYSTEM			WAT	WATER
		INV	INVERT ELEVATION				
		LF	LINEAR FEET				

CITY OF MILWAUKIE  
ENGINEERING DEPARTMENT  
6101 SE JOHNSON CREEK BLVD  
MILWAUKIE, OR 97206  
PHONE (503) 786-7600  
FAX (503) 774-8236



### PROJECT DESCRIPTION

The project consists of replacement of water pipe, stormwater infrastructure updates, sanitary sewer pipe pipeburst, and two inch grind and inlay.

### PROJECT MANAGER

Name: Josh Neath  
Phone Number: (503) 786-7531  
Email Address: neathj@milwaukieoregon.gov

### INSPECTIONS

Name: BuildingPermits.Oregon.gov  
Phone Number: 1-888-299-2821

### UTILITY CONTACTS

**City of Milwaukie:**  
Emergency On-Call: 503-348-8833  
Stormwater & Wastewater: Shane Hart 503-786-7679, HartS@milwaukieoregon.gov  
Streets: Scott Pierce 503-786-7684, PierceS@milwaukieoregon.gov  
Water: Steve Out 503-786-7667, OutS@milwaukieoregon.gov  
Urban Forester: Courtney Wilson 503-305-1980, WilsonC@milwaukieoregon.gov

**Portland General Electric:**  
Emergency: 503-464-7777  
Jake Lang: 503-736-5404, Jake.Lang@pgn.com

**Northwest Natural:**  
Jeremy Lorence: 503-226-4211 x6772, Jeremy.Lorence@nwnatural.com

**Lumen:**  
David Bickle: 503-269-6006, David.Bickle@lumen.com

**Comcast Cable:**  
Chad Vaughn: 503-813-0484 (O), 971-801-5813 (C)  
Matthew Bravo: 503-813-0576 (O), 503-351-9311 (C), Matthew\_Bravo@comcast.com

**Solid Waste Hauler:**  
Hoodview Disposal & Recycling: 503-668-8300, customerservice@hoodviewdisposal.com

**US Postal Service:**  
David R Ellis: 503-654-1643, david.r.ellis@usps.gov

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NOTE: UNDERGROUND AND OVERHEAD POWER, GAS, AND TELECOMMUNICATION UTILITIES ARE LOCATED WITHIN THE RIGHT OF WAY. PROJECT HAS NOT BEEN SURVEYED & CITY UTILITY LOCATIONS ARE NOT FROM FIELD LOCATES. ALL DATA WAS COLLECTED FROM GIS AND INVERT MEASUREMENTS.

OREGON LAW REQUIRES CONTRACTORS TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH 952-001-0090. CONTRACTORS MAY OBTAIN COPIES OF THE RULES BY CALLING THE OREGON UTILITY NOTIFICATION CENTER AT 503-232-1987.

NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022
JRN DRAFTED	9/13/2024
JAG CHECKED	9/16/2024
APPROVED	DATE



CITY OF MILWAUKIE

10501 SE MAIN STREET  
MILWAUKIE, OR 97222

PHONE: 503-786-7600  
FAX: 503-774-8236

<b>ARDENWALD NORTH IMPROVEMENTS</b>			
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DATE:	9/13/2024	SHEET:	C000

**GENERAL NOTES:**

- CONTRACTOR SHALL ADHERE TO THE CITY OF MILWAUKIE PUBLIC WORKS STANDARDS, CITY OF MILWAUKIE - GENERAL CONDITIONS FOR CONSTRUCTION, THE 2021 EDITION OF THE OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION, EXCEPT AS MODIFIED BY SPECIAL PROVISIONS PREPARED FOR THIS PROJECT, ALL APPLICABLE OREGON ADMINISTRATIVE RULES (OAR), AND AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARDS. ACCEPTANCE BY THE CITY OF MATERIALS, CONSTRUCTION PROCEDURES, AND TESTING REQUIREMENTS ARE MANDATORY FOR THIS PROJECT.
- ANY CONSTRUCTION OBSERVATION BY THE CITY OR THE ENGINEER OF RECORD, SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN STRICT COMPLIANCE WITH THE APPLICABLE CODES AND CITY REQUIREMENTS.
- THE CONTRACTOR SHALL TAKE NO ADVANTAGE OF ANY ERRORS, OMISSIONS, OR DISCREPANCIES IN THE PLANS. WHEN ERRORS, OMISSIONS OR DISCREPANCIES ARE FOUND, THE ENGINEER SHALL BE NOTIFIED. WORK PERFORMED BY THE CONTRACTOR AS A RESULT OF AN ERROR, OMISSION OR DISCREPANCY IN THE PLANS SHALL BE AT THE CONTRACTOR'S RISK AND EXPENSE WHEN SUCH ERROR, OMISSION, OR DISCREPANCY HAS NOT BEEN BROUGHT TO THE ATTENTION OF THE ENGINEER.
- THE CONTRACTOR SHALL HAVE AT ALL TIMES ON-SITE, THE APPROVED CONSTRUCTION PLANS & SPECIAL SPECIFICATIONS, CITY OF MILWAUKIE STANDARD SPECIFICATIONS & STANDARD PLANS, 2018 OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION (OSSC), THE 2016 CITY OF PORTLAND STORMWATER MANAGEMENT MANUAL, AND ALL OTHER APPLICABLE SPECIFICATIONS BOOKS AND MANUALS.
- THERE SHALL BE NO ALTERATION OR VARIANCE FROM THE APPROVED PLANS WITHOUT WRITTEN APPROVAL OF THE CITY.
- THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE CITY OF MILWAUKIE ENGINEERING DEPARTMENT AFTER THE CITY APPROVES THE CONTRACT AND PRIOR TO THE START OF WORK. THE CONTRACTOR SHALL PROVIDE TWO (2) WEEKS NOTICE TO SCHEDULE A PRE-CONSTRUCTION MEETING. THOSE WHO MAY ATTEND ARE: CITY PROJECT MANAGER, DESIGN ENGINEER, PORTLAND GENERAL ELECTRIC (PGE), FRONTIER COMMUNICATIONS, COMCAST, NW NATURAL GAS, CENTURY LINK, CONTRACTOR, AND SELECTED MEMBERS OF THE CITY OF MILWAUKIE PUBLIC WORKS DEPARTMENT.
- PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL PROVIDE THE FOLLOWING ITEMS: PROJECT SCHEDULE; TRAFFIC CONTROL PLAN; EROSION CONTROL PLAN, WATER DISINFECTION PLAN, EMERGENCY CONTACT NAME AND PHONE NUMBER; MATERIAL SUBMITTALS, AS REQUIRED.
- CONSTRUCTION ACTIVITIES ARE ALLOWED PER SECTION 180.40 OF THE SPECIAL PROVISIONS.
- THE CONTRACTOR SHALL ERECT AND MAINTAIN TRAFFIC CONTROL PER THE LATEST EDITION OF THE OREGON TEMPORARY TRAFFIC CONTROL HANDBOOK. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE CITY FOR APPROVAL PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL MAINTAIN AND COORDINATE ACCESS TO ALL AFFECTED PROPERTIES.
- CONTRACTOR SHALL MAINTAIN DELIVERABILITY OF MAIL. DO NOT OBSTRUCT MAILBOXES. REMOVE AND REINSTALL MAILBOXES TO THEIR ORIGINAL CONDITION AS REQUIRED TO COMPLETE CONSTRUCTION.
- PRIOR TO ORDERING ANY MATERIALS, THE CONTRACTOR SHALL PROVIDE TO THE CITY ALL MANUFACTURER'S SPECIFICATION SHEETS FOR MATERIALS FOR CITY REVIEW AND ACCEPTANCE.
- ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE CITY. THE CITY RESERVES THE RIGHT TO ACCEPT OR REJECT ANY MATERIALS OR WORKMANSHIP THAT DOES NOT CONFORM TO THE STANDARDS LISTED ABOVE.
- THE CONTRACTOR SHALL ENSURE THEY HAVE ALL REQUIRED PERMITS AND LICENSES BEFORE STARTING CONSTRUCTION.
- WORK PROVIDED FOR UNDER THE PERMIT SHALL INCLUDE REPAIR OF EXISTING FACILITIES (ROADS, DITCHES, ETC.) AS MAY BE NECESSARY, IN THE PROJECT ENGINEER'S OPINION, TO OVERCOME DETERIORATION OR DAMAGE WHICH OCCURRED IN CONJUNCTION WITH THE WORK AUTHORIZED BY THE PERMIT. CORRECTIVE WORK SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL REMOVE ALL MATERIALS EXCAVATED FROM WORK IN THE RIGHT-OF-WAY AND DISPOSE AT A PROPER LANDFILL. THE CONTRACTOR IS RESPONSIBLE FOR SECURING ALL NECESSARY PERMITS FOR DISPOSAL.
- CONTRACTOR SHALL SCHEDULE 24-HOURS IN ADVANCE OF INSPECTION THROUGH OREGON E-PERMITTING BY CALLING THE INSPECTION LINE AT 1-(888) 299-2821 OR VISITING THE WEBSITE AT <https://aca-oregon.accela.com/oregon/>. SCHEDULE INSPECTIONS FOR THE FOLLOWING WORK:
  - PUBLIC UTILITY EXCAVATION
  - STORM FACILITY STRUCTURES - INSTALLATION AND FORMS
  - STORM FACILITY BACKFILL
  - STORM FACILITY PLANTINGS
  - PUBLIC UTILITY INSTALLATION
  - PUBLIC UTILITY CONNECTIONS
  - STREET SUB-GRADE
  - STREET BASE AGGREGATE
  - STREET PAVEMENT INSTALLATION
  - CURB & SIDEWALK FORMS
  - FINAL INSPECTION
  - PUBLIC UTILITY TESTING
- CONTRACTOR SHALL SCHEDULE CONSTRUCTION IN A MANNER THAT ALLOWS THE CITY TIME TO WITNESS THE REQUIRED TESTING. CONTRACTOR SHALL NOTIFY THE CITY 48 HOURS PRIOR TO TESTING. CONTRACTOR MUST PROVIDE IN WRITING, PRIOR TO CONSTRUCTION, THE PROPER MATERIAL CERTIFICATIONS. THE CONTRACTOR SHALL PAY A CERTIFIED INDEPENDENT TESTING LABORATORY FOR DENSITY, COMPACTION, SLUMP, AND 28-DAY CONCRETE CYLINDER BREAK TESTING. REQUIRED AIR TESTING, MANDREL TESTING, TELEVISION INSPECTION, AND VACUUM TESTING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL PROVIDE TEST RESULTS FOR, BUT NOT LIMITED TO:
  - BASE COMPACTION
  - TRENCH BACKFILL
  - ASPHALT COMPACTION
  - STORM AND SEWER MANHOLE VACUUM TESTING
  - STORM AND SEWER MAINLINE HYDROSTATIC PRESSURE TESTING
  - STORM AND SEWER PIPE MANDREL
  - STORM AND SEWER MAINLINE DEFLECTION TESTING
  - WATER PRESSURE TESTING
  - WATER CHLORINATION TESTING
  - CONCRETE SLUMP & AIR ENTRAINMENT
  - CONCRETE CYLINDER BREAK TESTS
- CONTRACTOR SHALL TAKE REASONABLE EFFORT IN THE PRESERVATION OF EXISTING IMPROVEMENTS, LANDSCAPING AND VEGETATION THROUGHOUT CONSTRUCTION. ANY LANDSCAPING/TREES DAMAGED OR DESTROYED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED IN CONFORMANCE WITH CITY OF MILWAUKIE STANDARDS.
- PROPERTY DISTURBED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED TO EXISTING OR BETTER CONDITION. GRASS, SHRUBS, PAVEMENT, ETC. DISTURBED BY CONSTRUCTION ACTIVITY SHALL BE RE-ESTABLISHED, REINSTALLED, OR REPLACED, WITH LIKE KIND AND MATERIAL TO EXISTING OR BETTER CONDITION.
- CONTRACTOR SHALL NOT USE THE PUBLIC RIGHT OF WAY FOR STORAGE OF EQUIPMENT, MATERIALS, CONSTRUCTION TRAILERS, AND CONSTRUCTION VEHICLES UNLESS OTHERWISE APPROVED. CONSTRUCTION VEHICLES SHALL PARK AT THE LOCATIONS(S) DETERMINED AT THE PRE-CONSTRUCTION MEETING.
- IT IS THE OBLIGATION OF THE CONTRACTOR TO OBTAIN WRITTEN APPROVAL FROM PRIVATE PROPERTY OWNERS FOR USE OF PRIVATE PROPERTY FOR CONSTRUCTION STAGING AND TO RESTORE PRIVATE PROPERTY TO A CONDITION SATISFACTORY TO PROPERTY OWNER AT PROJECT COMPLETION. THE CONTRACTOR SHALL PROVIDE A COPY OF ALL AGREEMENTS SIGNED WITH PRIVATE PROPERTY OWNERS.
- UPON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL SUBMIT AN APPROVED SET OF "CLEAN AS-BUILT" DRAWINGS TO THE CITY OF MILWAUKIE ENGINEERING DEPARTMENT. DOCUMENT ALL DEVIATIONS AND REVISIONS TO THE APPROVED PLANS. RECORD A DESCRIPTION OF CONSTRUCTION MATERIAL ACTUALLY USED. THE CONTRACTOR SHALL KEEP A COMPLETE SET OF RED-LINED AS-BUILT DRAWINGS ON SITE AT ALL TIMES THAT MUST BE KEPT UP TO DATE AND AVAILABLE FOR CITY INSPECTION AT ANY TIME.

**SURVEY AND LOCATES NOTES:**

- OREGON LAW REQUIRES THE CONTRACTOR TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THESE RULES FROM THE CENTER BY CALLING 1-877-668-4001.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ANY AND ALL EXISTING UTILITIES AND OBTAINING UTILITY LOCATION PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR MUST CONTACT OREGON UTILITY NOTIFICATION CENTER AT 811 OR 1-800-332-2344 AT LEAST TWO (2) BUSINESS DAYS AND NOT MORE THAN TEN (10) BUSINESS DAYS PRIOR TO AN EXCAVATION.
- CONTRACTOR SHALL MAINTAIN ALL EXISTING BENCHMARKS, PROPERTY CORNERS, AND MONUMENTS. IF ANY SUCH POINTS ARE DISTURBED OR DESTROYED DURING CONSTRUCTION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, AND IF REQUIRED BY ORS 209, THE PROPERTY CORNERS AND OTHER SUCH MONUMENTS SHALL BE RESET BY A REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE AND FILED AT THE CLACKAMAS COUNTY RECORDS OFFICE.
- THE CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING FACILITIES AND STUBS TO BE UTILIZED AND NOTIFY THE PROJECT ENGINEER OF ANY DISCREPANCIES WITH THE APPROVED PLAN.
- PROPERTY AND RIGHT-OF-WAY LINES SHOWN ARE APPROXIMATE. THESE PLANS ARE NOT MEANT TO SERVE PROPERTY BOUNDARY SURVEY PURPOSES.
- THE CONTRACTOR IS RESPONSIBLE FOR POTHOLING TO VERIFY EXISTING UTILITY LOCATIONS AND ENSURE NO CONFLICTS PRIOR TO CONSTRUCTION. NOTIFY THE CITY WHEN ANY EXCAVATION WORK CAN CONFLICT WITH OR COMPROMISE EXISTING UTILITIES.
- CONTRACTOR MUST VERIFY ALL EXISTING UTILITIES FOR BOTH VERTICAL ELEVATION AND HORIZONTAL LOCATION PRIOR TO START OF WORK. SHOULD CONFLICTS ARISE AND REDESIGN OR RELOCATION OF FACILITIES IS NECESSARY, THEN CHANGES MUST APPROVED BY THE PROJECT ENGINEER IN ADVANCE OF WORK. CONTRACTOR SHALL COORDINATE THE WORK WITH APPLICABLE AGENCIES.
- CONTRACTOR SHALL WORK TO PRESERVE ALL TEMPORARY SURVEY CONTROL POINTS, TEMPORARY BENCHMARKS, TEMPORARY GRADE STAKES, AND OTHER REFERENCE POINTS FOR AS LONG AS THEY ARE NEEDED FOR CONSTRUCTION ACTIVITIES. RE-STAKING DUE TO CONTRACTOR'S, SUBCONTRACTOR'S OR VENDOR'S NEGLIGENCE WILL BE AT CONTRACTOR'S EXPENSE.
- ALL STREET CENTERLINE MONUMENTS SHALL BE SET IN MONUMENT CASES THAT CONFORM TO CLACKAMAS COUNTY SPECIFICATIONS.

10. THE CITY LOCATES UTILITY MAIN LINES BUT NOT LATERALS.

**SAFETY NOTES:**

- CONTRACTOR SHALL FOLLOW ALL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.
- ALL TRENCHES SHALL BE PROPERLY SHORED AND BRACED TO PREVENT CAVING. SPEED SHORES ARE REQUIRED BETWEEN 4' AND 20' TRENCH DEPTH. TRENCHES OVER 20' IN DEPTH REQUIRE ENGINEERED SHORING TO THE CITY OF MILWAUKIE ENGINEERING DEPARTMENT PRIOR TO USE ON THE PROJECT.
- NO TRENCH SHALL BE LEFT AT ANY TIME IN AN UNSAFE CONDITION. THE CONTRACTOR IS RESPONSIBLE AND LIABLE FOR HAZARDS OR DAMAGE RESULTING FROM PROSECUTION OF THE WORK.
- NO TRENCHES SHALL BE ALLOWED TO REMAIN OPEN OVERNIGHT. ALL TRENCHES SHALL BE COVERED WITH STEEL PLATES OR BACKFILLED AT THE END OF EACH SHIFT.

**GENERAL UTILITY NOTES:**

- THE LOCATIONS, DEPTHS, AND DESCRIPTIONS OF EXISTING UTILITIES SHOWN ARE COMPILED FROM AVAILABLE RECORDS AND/OR FIELD SURVEYS. THE ENGINEER OR UTILITY COMPANIES DO NOT GUARANTEE THE ACCURACY OR THE COMPLETENESS OF SUCH RECORDS. ADDITIONAL UTILITIES MAY EXIST WITHIN THE WORK AREA.
- THE LOCATION OF EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND ARE SHOWN FOR INFORMATION ONLY. UTILITY LOCATIONS SHALL BE VERIFIED BY OREGON UTILITIES NOTIFICATION CENTER IMMEDIATELY PRIOR TO ANY EXCAVATION. NOTIFY PROJECT ENGINEER OF ANY DISCREPANCIES PRIOR TO ANY EXCAVATION. UTILITY LOCATIONS SHOWN IN THE FIELD BY THE OREGON UTILITY NOTIFICATION CENTER ARE ASSUMED TO BE APPROXIMATE IN POSITION. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING UTILITY LOCATE MARKINGS FOR THE DURATION OF THE PROJECT AND SHALL BE RESPONSIBLE FOR LOCATING NEW UTILITIES PRIOR TO CITY ACCEPTANCE.
- PROVISIONS SHALL BE MADE BY THE CONTRACTOR TO KEEP ALL EXISTING UTILITIES IN SERVICE AND PROTECT THEM DURING CONSTRUCTION. THE UTILITY OWNER SHALL BE NOTIFIED IN THE EVENT OF DAMAGE. REPAIRS WILL BE MADE AT THE CONTRACTOR'S EXPENSE.
- FRANCHISE UTILITIES SHOWN ON THESE PLANS ARE FOR INFORMATION AND COORDINATION PURPOSES ONLY AND ARE NOT AUTHORIZED FOR INSTALLATION UNDER THE PUBLIC STREET IMPROVEMENT PERMIT. UTILITY COMPANIES ARE REQUIRED TO SECURE SEPARATE UTILITY PERMITS FROM THE CITY FOR ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
- UTILITIES OR INTERFERING PORTIONS OF ABANDONED UTILITIES SHALL BE REMOVED BY THE CONTRACTOR TO THE EXTENT NECESSARY TO ACCOMPLISH THE WORK. ABANDONED UTILITIES SHALL BE VERIFIED BY CITY STAFF PRIOR TO REMOVAL. THE CONTRACTOR SHALL DRAIN ABANDONED PIPES AND PLUG WATERTIGHT. PLUG WITH GASKETED MECHANICAL PLUGS OR GROUTED SEALS, AS DIRECTED ON THE PLANS. ALL ABANDONED UTILITIES WILL BE DOCUMENTED ON THE AS-BUILT DRAWINGS. UTILITY PIPES OVER 16 INCHES IN DIAMETER SHALL BE ABANDONED WITH CONTROLLED DENSITY FILL (CDF).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE PROPER SEPARATION FOR UTILITY PLACEMENT, AS REQUIRED BY THE DEPARTMENT OF ENVIRONMENTAL QUALITY AND STATE DEPARTMENT OF HEALTH. SEE CITY OF MILWAUKIE STANDARD DETAIL 509.
- ALL UTILITY CROSSINGS AND POINTS OF CONNECTION TO THE EXISTING SYSTEM SHALL BE POTHOLED PRIOR TO EXCAVATION. THIS IS TO ALLOW FOR ADJUSTMENTS DUE TO CONFLICTS AND VERIFY ALIGNMENT, DEPTH, PIPE SIZE, AND PIPE MATERIAL. THE USE OF BENDS TO AVOID ALIGNMENT CONFLICTS WILL NOT BE ALLOWED WITHOUT ENGINEER APPROVAL.
- THE CONTRACTOR WILL NOTIFY THE CITY WHEN ANY EXCAVATION WORK CAN CONFLICT OR COMPROMISE ANY EXISTING UTILITIES.
- THE CONTRACTOR SHALL ARRANGE A PRE-CONNECTION MEETING WITH THE CITY PRIOR TO THE START OF CONNECTION WORK.
- EXISTING UTILITY SERVICES SHALL BE MAINTAINED AT ALL TIMES, WHEN SERVICE DISRUPTIONS ARE REQUIRED CONTRACTOR SHALL NOTIFY AFFECTED BUSINESS OF THE DATE AND DURATION OF THE DISRUPTION A MINIMUM OF 48 HOURS IN ADVANCE OF THE DISRUPTION UNLESS OTHERWISE SPECIFIED. CONTRACTOR SHALL BE RESPONSIBLE TO DELIVER SERVICE DISRUPTION DOOR HANGERS TO AFFECTED RESIDENTS A MINIMUM OF 48 HOURS IN ADVANCE OF DISRUPTION.
- ALL PIPE LENGTHS SHOWN ARE HORIZONTAL DISTANCES AND SHALL BE CONSIDERED APPROXIMATE. FINAL LENGTHS ARE DETERMINED BY FIELD CONDITIONS.
- GRANULAR PIPE BEDDING AND TRENCH BACKFILL SHALL CONFORM TO APWA CLASS B IN PAVED AREAS AND CLASS A IN LANDSCAPE AREAS. MATERIALS SHALL BE COMPACTED IN ACCORDANCE WITH OSSC STANDARDS. SUBSEQUENT SETTLEMENT OF THE FINISHED SURFACE WITHIN THE WARRANTY PERIOD SHALL BE CONSIDERED TO BE A RESULT OF IMPROPER COMPACTION AND SHALL BE PROMPTLY REPAIRED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
- TRENCH COMPACTION TESTING IS REQUIRED IN ACCORDANCE WITH OSSC SECTION 00330. MAINLINE TO BE TESTED EVERY 200 FT AND TEST EACH LATERAL.
- TRACER WIRE TO BE INSTALLED ON ALL PUBLIC OWNED PLASTIC PIPES PER OSD RD 300 AND RD 336. TRACER WIRE SHALL BE CONNECTED WITH TRACER WIRE CONNECTORS WITH 90-DEGREE TWIST LOCK DESIGN IN BLUE COLOR
- MARKING TAPE SHALL BE INSTALLED 12 INCHES OVER ALL UTILITY LINES INCLUDING SERVICE LINES.

				TAP DESIGNED DATE 3/11/2022 JRN DRAFTED DATE 9/13/2024 JAG CHECKED DATE 9/16/2024 APPROVED DATE _____			 <b>CITY OF MILWAUKIE</b> 10501 SE MAIN STREET MILWAUKIE, OR 97222 PHONE: 503-786-7600 FAX: 503-774-8236	<b>ARDENWALD NORTH IMPROVEMENTS</b>			
				GENERAL NOTES							
NO.	DATE	BY	REVISIONS	PROJECT NO.:	W61	SHEET NO.:	2 OF 93	DATE:	9/13/2024	SHEET:	C001

**SANITARY SEWER AND STORMWATER NOTES:**

- 1. EVERY NEW OR EXISTING STORM OR SEWER SERVICE LINE THAT HAS ANY WORK DONE TO IT OR THE ADJACENT MAIN IS REQUIRED TO BE TELEVISION INSPECTED, BY THE CONTRACTOR, FROM THE CENTER OF MAIN OR MANHOLE TO THE HOME, BUILDING, OR OTHER STRUCTURE PRIOR TO ACCEPTANCE. LINES WILL BE THOROUGHLY CLEANED PRIOR TO REQUEST FOR INSPECTION. DEBRIS FROM THE CLEANING WILL BE TRAPPED FOR DISPOSAL AND NOT FLUSHED INTO THE SYSTEM.
- 2. ALL HIGH-DENSITY POLYETHYLENE (HDPE) AND PVC PIPE SHALL BE DEFLECTION TESTED NO LESS THAN 30-DAYS AFTER THE TRENCH BACKFILL AND COMPACTION HAS BEEN COMPLETED. THE TEST SHALL BE CONDUCTED BY PULLING AN APPROVED SOLID POINTED 95% OF AN INSIDE DIAMETER MANDREL THROUGH THE PIPELINE. LEAKAGE TESTS INCLUDE AN AIR TEST OF THE SEWER MAINS AND LATERALS AND A WATER EXFILTRATION TEST OR VACUUM TEST OF THE MANHOLES. CITY OF MILWAUKIE INSPECTOR SHALL BE PRESENT DURING TESTING.
- 3. MANHOLES SHALL BE PRECAST CONCRETE SECTIONS WITH MINIMUM INSIDE DIAMETER OF 48-INCHES. CONFORMING TO THE REQUIREMENTS OF ASTM C-478, EXCEPT AS NOTED ON THE PLANS.
- 4. THE SERVICE LATERALS SHALL BE INSTALLED WITH A MINIMUM GRADE OF 2% UNLESS OTHERWISE SHOWN ON THE PLANS.
- 5. ALL SANITARY SERVICE LATERALS THAT ARE NOT CONNECTED TO AN EXISTING SERVICE SHALL EXTEND BEYOND THE PROPERTY LINE PER THE STANDARD DETAIL. THE END SHALL BE MARKED WITH A SINGLE 2X4 WHICH SHALL EXTEND 2 FT ABOVE FINISH GRADE. THE EXPOSED PORTIONS OF THE 2X4 SHALL BE PAINTED WHITE. DEPTH OF LATERAL SHALL BE PAINTED ON THE 2X4.
- 6. SANITARY LATERAL LOCATIONS SHALL BE STAMPED WITH AN "S" ON THE CURB FACE FOR FUTURE LOCATION.
- 7. ALL STORM DRAIN TILE ENCOUNTERED DURING CONSTRUCTION SHALL BE PIPED DIRECTLY TO THE STORM SYSTEM.
- 8. STORMWATER FACILITIES WILL HAVE TOPSOIL INSTALLED IN A MANNER THAT ENSURES ADEQUATE INFILTRATION. PLACE IN TWO EQUAL LIFTS WHICH SHOULD NOT BE COMPACTED, BUT RATHER PLACED IN A MANNER TO REDUCE EXCESSIVE EROSION OR SETTLEMENT. LIFTS MAY BE LIGHTLY WATERED TO ENCOURAGE NATURAL COMPACTION OR, IF NECESSARY, ROLLED WITH A WATER-FILLED LANDSCAPE ROLLER. SLIGHTLY OVERFILL THE FACILITY ABOVE PROPOSED FINISH GRADE TO ACCOMMODATE NATURAL SETTLEMENT.
- 9. FOLLOWING STORMWATER FACILITIES CONSTRUCTION, PLANTING SHALL OCCUR BETWEEN SEPTEMBER 1 AND NOVEMBER 1, OR BETWEEN FEBRUARY 1 AND APRIL 15. IF CONSTRUCTION IS COMPLETED DURING THESE TIME PERIODS, PLANTING SHALL OCCUR IMMEDIATELY. IF CONSTRUCTION IS COMPLETED OUTSIDE OF THESE TIME PERIODS, TOPSOIL SHALL BE COVERED ENTIRELY WITH NORTH AMERICAN GREEN C125BN EROSION CONTROL FABRIC, SECURED WITH 12" WOODEN ECOSTAKES (18" ON-CENTER). AT TIME OF PLANTING, PLANTS SHALL BE INSTALLED THROUGH HOLES CUT IN THE EROSION CONTROL FABRIC. ENSURE FABRIC IS SECURELEY STAKED FOR STABILIZATION AND SOIL COVERAGE FOLLOWING PLANTING.
- 10. DURING WET WEATHER CONDITIONS, CONTRACTOR TO PLACE EROSION CONTROL FABRIC OVER STORMWATER FACILITY TO PREVENT EROSION. FABRIC SHALL BE 100% BIODEGRADABLE COIR FABRIC (NORTH AMERICAN C125BN OR APPROVED EQUAL). STORMWATER FACILITY AND SURROUNDING SITE WILL BE STABILIZED TO PREVENT MEASURABLE SEDIMENT FROM ERODING ON THE SITE AND INTO ADJACENT AREAS.

**WATER NOTES:**

- 1. THE CONTRACTOR WILL MEET WITH THE CITY ON PROJECT SITE TO VERIFY PROPER MATERIALS PRIOR TO ANY WATER INSTALLATION. THE CONTRACTOR MUST PROVIDE A CHLORINATION AND DECHLORINATION PLAN TO THE CITY FOR APPROVAL THAT COMPLIES WITH AWWA REGULATIONS.
- 2. OPERATION OF ALL EXISTING VALVES TO ISOLATE WATERLINES FOR THE REQUIRED WORK SHALL BE CONDUCTED BY CITY OF MILWAUKIE EMPLOYEES ONLY.
- 3. CONTRACTOR SHALL REQUEST WATER SYSTEM SHUT DOWN FROM THE CITY OF MILWAUKIE PROJECT MANAGER AT LEAST FIVE (5) CALENDAR DAYS IN ADVANCE OF ANY PLANNED SERVICE DISRUPTION. UPON APPROVAL, CONTRACTOR WILL PROVIDE NOTIFICATION OF SERVICE DISRUPTION TO THE AFFECTED WATER CUSTOMERS TWO (2) CALENDAR DAYS IN ADVANCE OF SERVICE DISRUPTIONS.
- 4. CONTRACTOR TO FURNISH AND INSTALL ALL FITTINGS, METER BOX, AND LID PER CITY OF MILWAUKIE STANDARDS. WATER METERS TO BE FURNISHED AND INSTALLED BY CITY, UNLESS OTHERWISE INDICATED ON PLANS.
- 5. RETAINER GLANDS ARE REQUIRED FOR ALL MECHANICAL JOINT CONNECTIONS. MEGALUG RETAINER GLANDS SHALL BE USED FOR DUCTILE IRON PIPE CONNECTIONS. GRIPPING RETAINER GLANDS SHALL BE USED FOR CAST IRON AND PVC PIPE CONNECTIONS.
- 6. THRUST BLOCKS SHALL NOT BE USED ON TEES, BENDS OR BLOW-OFFS, UNLESS OTHERWISE INDICATED ON PLANS.
- 7. ALL RESTRAINT FITTINGS SHALL BE INSTALLED WITH MANUFACTURER SPECIFIED TORQUE. CONTRACTOR IS RESPONSIBLE FOR HAVING A FUNCTIONAL TORQUE WRENCH ON-SITE.
- 8. CONTRACTOR SHALL ENCASE ALL DUCTILE IRON FITTINGS WITH 8-MIL PLASTIC SHEETING.
- 9. CITY WATER CREWS HAVE THE RIGHT TO REMOVE OR KEEP ANY OR ALL OLD WATER INFRASTRUCTURE THAT IS EXPOSED BY CONTRACTOR.
- 10. THE MAXIMUM ALLOWABLE JOINT DEFLECTION SHALL NOT EXCEED 3°.
- 11. WATER LINE FILLING AND FLUSHING SHALL BE PERFORMED IN ACCORDANCE WITH OSSC SECTION 01140.50. CONTRACTOR SHALL PROVIDE ALL HOOK-UPS, PIPING, HOSES, AND ALL OTHER EQUIPMENT FOR FLUSHING. CONTRACTOR TO COORDINATE FLUSHING WITH CITY OF MILWAUKIE PROJECT

MANAGER. CITY INSPECTOR TO BE ON SITE TO MEASURE VELOCITY PRODUCED.

- 12. HYDROSTATIC TESTING SHALL BE PERFORMED IN ACCORDANCE WITH AWWA C600, SECTION 5. TESTING SHALL BE MONITORED BY THE CITY OF MILWAUKIE INSPECTOR. DISINFECTION SHALL BE PERFORMED AFTER THE HYDROSTATIC TESTING. CONTRACTOR SHALL USE A PRESSURE GAUGE THAT READS IN ONE POUND INCREMENTS.
- 13. PIPELINES SHALL BE FLUSHED AND DISINFECTED BEFORE PLACING INTO SERVICE. CHLORINATED WATER SHALL BE DISCHARGED TO AN APPROVED SANITARY SEWER MANHOLE. APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS CONCERNING DISCHARGE SHALL BE FOLLOWED. OREGON STATE HEALTH DIVISION BACTERIOLOGICAL TESTS SHALL BE TAKEN BY THE CITY OF MILWAUKIE.
- 14. DUE TO THE AGE OF THE EXISTING WATERLINES AND VALVES, LEAKAGE OF EXISTING FACILITIES MAY OCCUR DURING CONSTRUCTION OF TIE-INS. CONTRACTOR SHALL HAVE ON-SITE PUMPS ADEQUATE TO KEEP TRENCHES DE-WATERED AND WILL FOLLOW ALL CITY STORMWATER REQUIREMENTS FOR DEWATERING.
- 15. "STICK BY STICK" CONSTRUCTION MAY BE REQUIRED IN AREAS WHERE PROPOSED WATERLINE IS CLOSE TO EXISTING WATER MAIN. IF TRENCH OF THE EXISTING WATERLINE IS FALLING INTO THE NEW CONSTRUCTION TRENCH, OR IF THE EXISTING WATERLINE IS EXPOSED, "STICK BY STICK" CONSTRUCTION WILL BE REQUIRED.
- 16. CITY MUST APPROVE SUB-CONTRACTOR DOING DIRECT TAPPING ON LIVE CITY WATER MAINS.
- 17. IF CONNECTING TO CITY FIRE HYDRANT FOR TEMPORARY WATER, CONTRACTOR TO RENT HYDRANT METER THROUGH THE CITY. CITY PUBLIC WORKS WILL INSTRUCT CONTRACTOR ON USE. CONTRACTOR TO PROVIDE DEPOSIT AND COMPLETED HYDRANT METER APPLICATION TO CITY BUILDING DEPARTMENT AND PICK UP HYDRANT METER FROM THE JOHNSON CREEK BLVD. OFFICE BUILDING.
- 18. WHERE NEW WATER METER, SERVICES AND HYDRANTS ARE BEING INSTALLED, SIDEWALK PANELS SHALL BE CUT IN FULL AND REPLACED. DISPOSAL IS RESPONSIBILITY OF CONTRACTOR. SIDEWALK SCORING SHALL MATCH EXISTING SCORING. CONTRACTOR SHALL PLACE AND MAINTAIN TEMPORARY BACKFILL OR TEMPORARY TRAFFIC STEEL PLATE ON OPEN SIDEWALK AREA FOR DURATION OF PROJECT, UNTIL SIDEWALK IS READY TO BE POURED.
- 19. THE CONTRACTOR MUST MAINTAIN PIPE PLUGS IN NEW WATER MAIN DURING MAINLINE CONSTRUCTION.
- 20. ANY LEADED FITTINGS OR SERVICE LINES EXPOSED DURING WORK THAT WERE NOT PREVIOUSLY IDENTIFIED FOR REPLACEMENT NEED TO BE COMMUNICATED TO THE PROJECT MANAGER IMMEDIATELY.
- 21. WHEN A CORROSIVE POTENTIAL CONDITION IS ENCOUNTERED, ALL DUCTILE-IRON PIPE AND FITTINGS WILL BE POLYETHYLENE ENCASED WITH AN 8MIL TUBING MEETING MANUFACTURER AND AWWA STANDARDS. WHERE AN ACTIVE CATHODIC PROTECTION SYSTEM IS ENCOUNTERED AS A RESULT OF OTHER UTILITIES, A DEVIATION FROM NORMAL PIPE MATERIAL OR INSTALLATION MAY BE REQUIRED BY THE CITY ENGINEER.
- 22. ALL GATE VALVES SHALL BE RESILIENT WEDGE PER LATEST REVISION OF AWWA C-515.
- 23. FOR WATER SERVICE INSTALLATION, WHEN A CORROSIVE POTENTIAL CONDITION IS ENCOUNTERED AND THE COPPER SERVICE PASSES OVER OR UNDER AN ACTIVE CATHODIC PROTECTION SYSTEM, THE SERVICE SHALL BE INSTALLED IN A SCHEDULE 40 PVC CONDUIT FOR A DISTANCE OF TEN FEET ON EACH SIDE OF THE ACTIVE SYSTEM. ALL CONDUIT PLACEMENTS WILL BE AS-BUILT. PEX WATER SERVICE LINES ARE APPROVED TO BE USED IN AREAS WHERE COPPER SERVICE LINES FAIL PREMATURELY.
- 24. WATER SAMPLING STATIONS WILL BE REQUIRED AS DIRECTED BY THE CITY ENGINEER. APPROVED STATION IS KUPFERLE ECLIPSE #88-SS WITH "CITY OF MILWAUKIE" LOGO CAST INTO THE ACCESS DOOR.

**STREET NOTES:**

- 1. PAVING NOTES AND DETAILS WITHIN THESE PLANS ARE INTENDED FOR DRY WEATHER CONSTRUCTION.
- 2. THE SPREADING OF MUD OR DEBRIS OR STORAGE OF MATERIAL OR EQUIPMENT OF ANY KIND UPON ANY ROADWAY WITHOUT CITY PERMISSION IS STRICTLY PROHIBITED.
- 3. POCKETS OF ORGANIC DEBRIS OR LOOSE FILL ENCOUNTERED DURING RIPPING OR RILL SHALL BE REMOVED AND REPLACED WITH ENGINEERED FILL.
- 4. THE CONTRACTOR SHALL ADJUST ALL VALVE BOXES, MANHOLES AND WATER METER BOXES TO FINISHED STREET, DRIVEWAY, OR SIDEWALK GRADE.
- 5. THE CONTRACTOR SHALL SAWCUT STRAIGHT MATCHLINES TO CREATE A BUTT JOINT BETWEEN THE EXISTING PAVEMENT AND NEW PAVEMENT. SAWCUT LINES SHOWN REPRESENT APPROXIMATE LOCATIONS. FINAL LOCATION SHALL BE APPROVED BY CITY. SEAL JOINTS WITH RUBBERIZED SEALANT IMMEDIATELY FOLLOWING PAVING.
- 6. THE CONTRACTOR SHALL VACUUM SAW CUT SLURRY AS SAW CUTTING IS BEING PERFORMED.
- 7. CONTRACTOR TO PROOF-ROLL FINAL SUB-GRADE WITH 10 CUBIC YARD TRUCK LOADED WITH ROCK PRIOR TO PLACING AGGREGATE BASE WITHIN THE PUBLIC RIGHT-OF-WAY. CITY INSPECTOR MUST BE PRESENT FOR PROOF-ROLL.
- 8. IDENTIFIED SOFT/LOOSE SOILS ENCOUNTERED DURING SUBGRADE PREPARATION TO BE REPLACED PER OSSC SECTION 00330.
- 9. AGGREGATE BASE SHALL BE COMPACTED TO 95% MAX. DRY DENSITY AS DETERMINED BY AASHTO T-180. CONTRACTOR TO HAVE AGGREGATE BASE COMPACTION TESTING CONDUCTED BY A QUALIFIED THIRD-PARTY TESTING FACILITY PRIOR TO PLACEMENT OF ASPHALT CONCRETE WITHIN THE PUBLIC RIGHT-OF-WAY. TEST REPORTS TO BE PROVIDED TO CITY OF MILWAUKIE. A MINIMUM OF ONE (1) DENSITY TEST SHALL BE PERFORMED AT TOP OF ROCK FOR EACH SECTION. FOR SECTIONS LONGER THAN ONE HUNDRED (100) FEET IN LENGTH, AT LEAST ONE (1) TEST SHALL BE COMPLETED AT THE TOP

OF ROCK PER EVERY ONE HUNDRED (100) LINEAL FEET.

- 10. EACH LIFT OF ASPHALT CONCRETE SHALL BE COMPACTED TO 92% RICE DENSITY IN CONFORMANCE WITH AASHTO T-209. CONTRACTOR TO HAVE ASPHALT CONCRETE COMPACTION TESTING CONDUCTED BY A QUALIFIED THIRD-PARTY TESTING FACILITY WITHIN THE PUBLIC RIGHT-OF-WAY. TEST EVERY TWO HUNDRED (200) LINEAL FEET AND PROVIDE TEST REPORTS TO CITY OF MILWAUKIE.
- 11. ALL EXCAVATIONS WITHIN A PAVED STREET OPEN TO TRAFFIC SHALL BE TEMPORARILY RESURFACED OR PLATED AT THE END OF EACH WORK DAY AND PRIOR TO ALLOWING VEHICULAR TRAFFIC ONTO EXCAVATED AREAS. CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING, MAINTAINING, AND REMOVING TEMPORARY SURFACING MATERIALS.
- 12. THE PROJECT ENGINEER AND CITY RESERVE THE RIGHT TO ADJUST GRADES OR ALIGNMENT TO ACCOMMODATE OTHER UTILITIES AS REQUIRED.
- 13. ALL MISCELLANEOUS PORTLAND CEMENT CONCRETE STRUCTURES SHALL HAVE A MINIMUM 28-DAY ULTIMATE COMPRESSIVE STRENGTH OF 3,300 PSI.
- 14. CONTRACTOR TO PROTECT NEW CONCRETE FINISH. CONTRACTOR RESPONSIBLE FOR REMOVING, REPLACING, AND DISPOSING OF MATERIAL IF FINISH DOES NOT MEET ENGINEERING STANDARDS.

**SIGNAGE AND MARKING NOTES:**

- 1. CONTRACTOR SHALL NOT REMOVE ANY STREET SIGNAGE NOT INDICATED IN THE PLANS WITHOUT PRIOR CITY APPROVAL.
- 2. CONTRACTOR SHALL REPLACE DAMAGED SIGNS OR SIGN POLES.
- 3. CONTRACTOR SHALL UPDATE ALL SIGNAGE PER MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) WHEN SIGNS ARE REMOVED OR DAMAGED.
- 4. CONTRACTOR SHALL REPLACE DAMAGED OR REMOVED PAVEMENT MARKINGS UPON COMPLETION OF FINAL PAVING.
- 5. CONTRACTOR SHALL RETURN ALL SIGNS/POLES/HARDWARE NOT BEING REINSTALLED TO THE CITY OF MILWAUKIE.
- 6. ALL SIGNING, MARKING AND PERMANENT BARRICADES TO BE INSTALLED BY THE CONTRACTOR PER OSSC. LOCATIONS ARE APPROXIMATE. FINAL LOCATION SHALL BE DETERMINED BY PROJECT MANAGER IN THE FIELD.

**TEMPORARY TRAFFIC CONTROL NOTES:**

- 1. ALL TRAFFIC CONTROL MEASURES SHALL CONFORM WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND LATEST EDITION OF THE OREGON TEMPORARY TRAFFIC CONTROL HANDBOOK (OTTCH).
- 2. CONTRACTOR SHALL INSTALL AND MAINTAIN ALL TEMPORARY TRAFFIC CONTROL DEVICES THROUGHOUT THE DURATION OF CONSTRUCTION.
- 3. ALL TRAVEL LANES, STREETS, DRIVEWAYS, AND POINTS OF ACCESS SHALL BE OPENED TO VEHICULAR TRAFFIC AT THE END OF EACH WORK DAY.
- 4. CONTRACTOR SHALL PROVIDE VEHICULAR ACCESS TO SIDE STREETS AND DRIVEWAYS TO THE EXTENT PRACTICABLE. WHEN VEHICULAR ACCESS WILL BE RESTRICTED LONGER THAN 20 MINUTES, CONTRACTOR SHALL GAIN APPROVAL FROM CITY. CONTRACTOR WILL NOTIFY THE AFFECTED BUSINESS / PROPERTY OWNER OF DATE AND DURATION OF INTERRUPTION, 14 DAYS IN ADVANCE OF THE CLOSURE.
- 5. THE MINIMUM VEHICLE TRAVEL LANE WIDTH SHALL BE APPROVED BY THE CITY.
- 6. CONTRACTOR TO PROVIDE TEMPORARY TRAFFIC CONTROL PLAN AT THE PRE-CONSTRUCTION MEETING.
- 7. WORK AT SIGNALIZED INTERSECTIONS REQUIRES FLAGGERS TO BE STATIONED AT EACH LEG OF THE INTERSECTION AND THE TRAFFIC SIGNAL TURNED OFF. CONTACT CLACKAMAS COUNTY AT 503 650-3735 TO SCHEDULE SIGNAL SHUT DOWNS SIGNAL SHUTDOWNS MUST BE SCHEDULED 48-HOURS PRIOR TO SHUTDOWN.

NO.	DATE	BY	REVISIONS	

TAP DESIGNED	3/11/2022
DATE	DATE
JRN DRAFTED	9/13/2024
DATE	DATE
JAG CHECKED	9/16/2024
DATE	DATE
APPROVED	DATE



**CITY OF MILWAUKIE**  
 10501 SE MAIN STREET  
 MILWAUKIE, OR 97222  
 PHONE: 503-786-7600  
 FAX: 503-774-8236

<b>ARDENWALD NORTH IMPROVEMENTS</b>					
GENERAL NOTES					
PROJECT NO.:	W61	SHEET NO.:	3 OF 93	DATE:	9/13/2024
				SHEET:	C002

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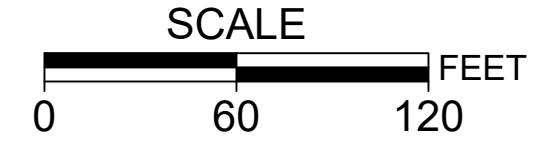
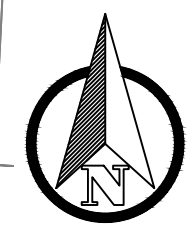
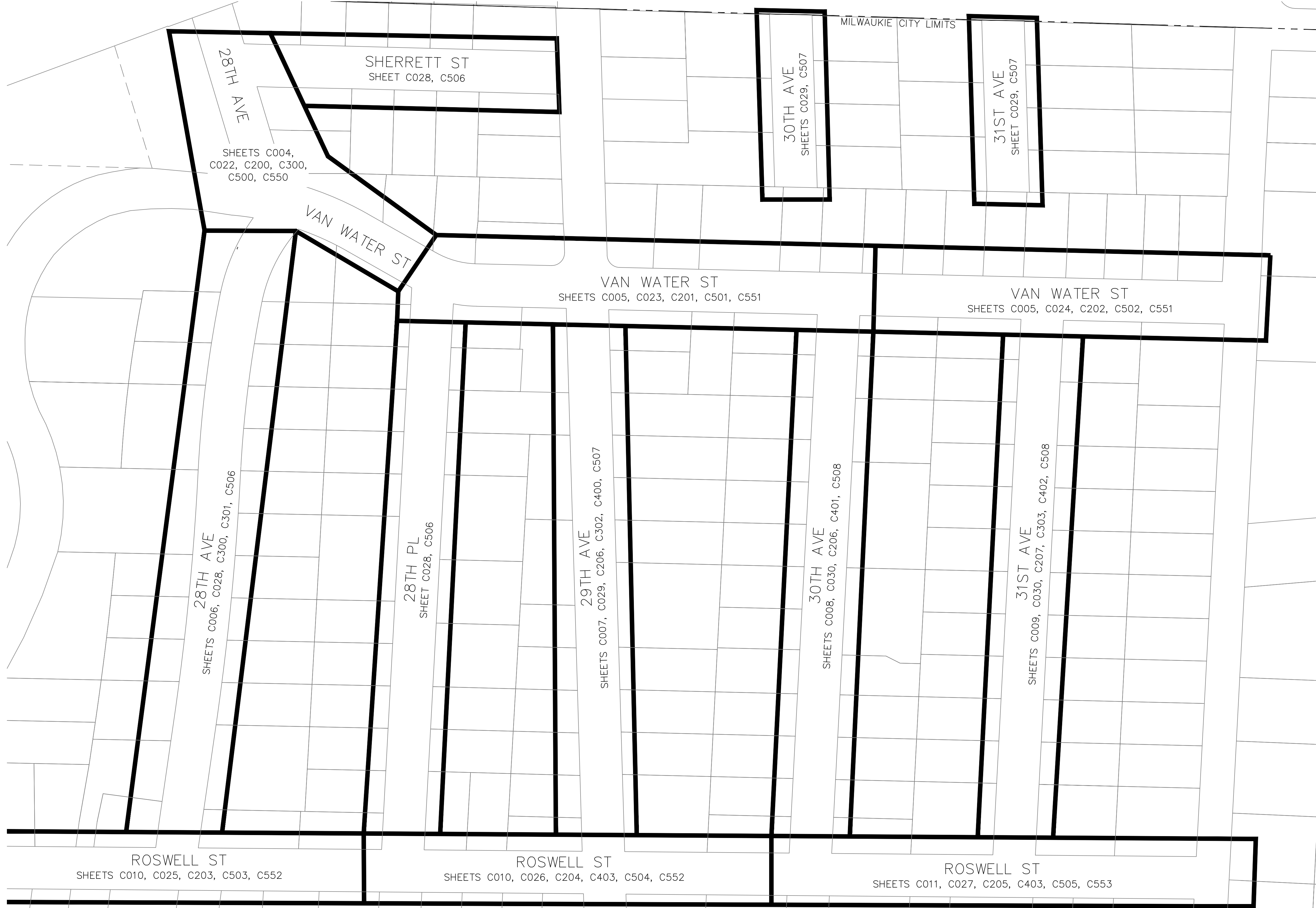
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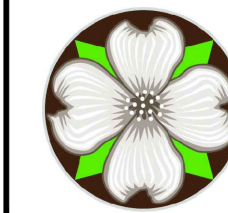
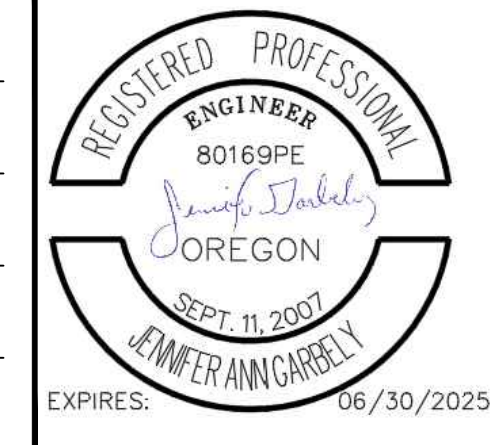
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NO.	DATE	BY	REVISIONS

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**ARDENWALD NORTH IMPROVEMENTS**

PLAN SHEET LAYOUT

PROJECT NO.:	W61	SHEET NO.:	4 OF 93	DATE:	9/13/2024	SHEET:	C003
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ARDENWALD  
EXISTING CONDITIONS SURVEY  
DATE: 8/29/2021  
DRAFTER: ALEJANDRO JOYA

PROJECT COORDINATES AND ELEVATIONS:  
COORDINATES ARE OREGON STATE PLANE NORTH ZONE NAD83 (HARN)  
ELEVATIONS ARE NAVD88  
UNITS IN INTERNATIONAL FEET

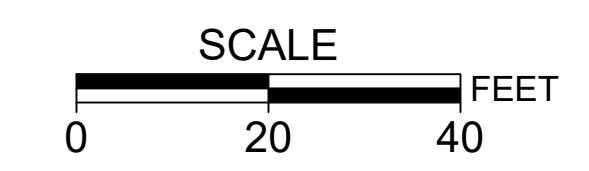
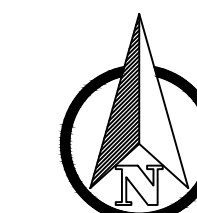
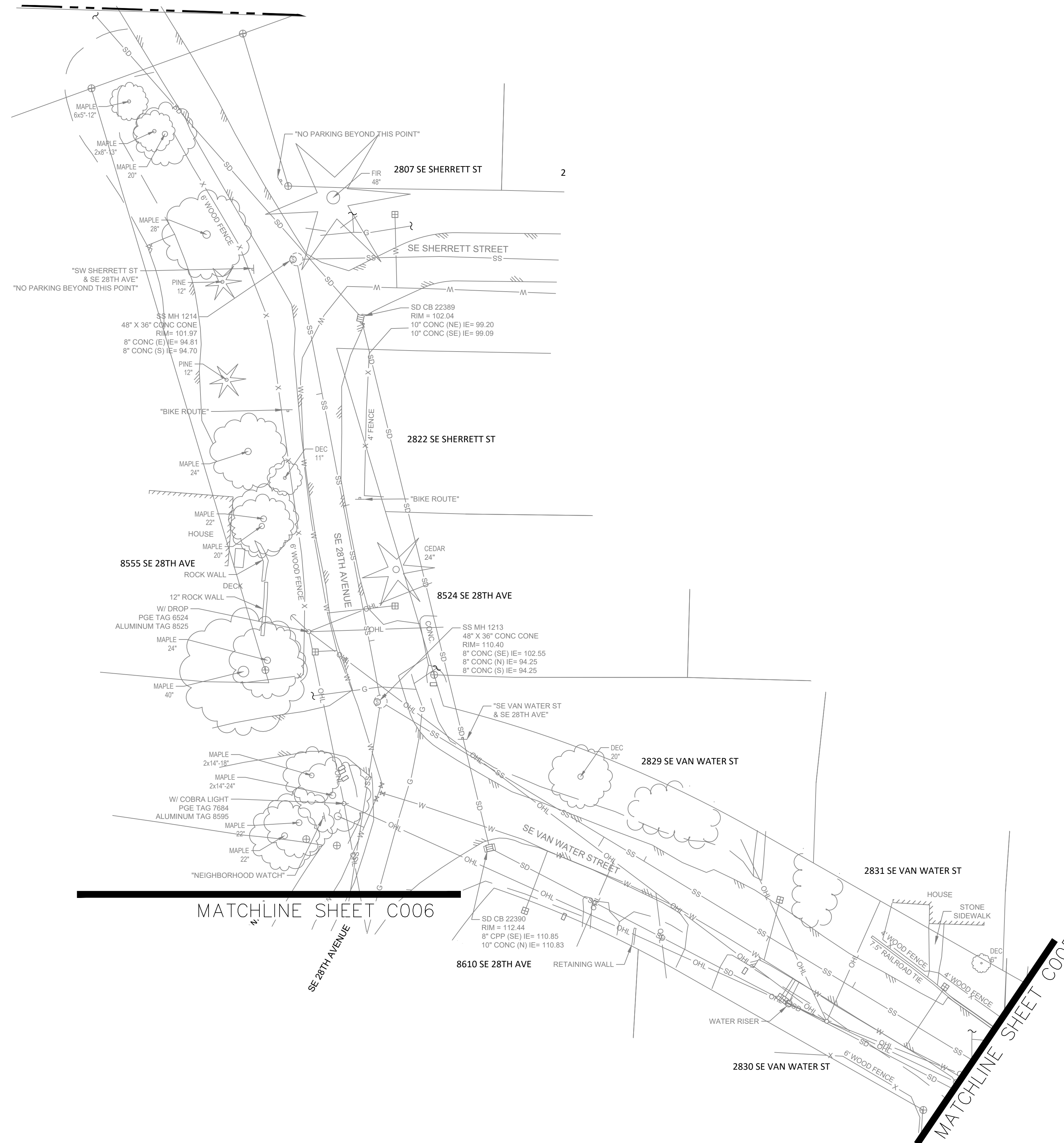
NOTE: CONTOURS SHOWN AT 1" INTERVALS

OTAK SYMBOL LEGEND

- ▲ SURVEY CONTROL
- ⊕ BOUNDARY MONUMENT
- ⊙ SANITARY MANHOLE
- ⊙ STORM MANHOLE
- ⊙ APPROXIMATE MANHOLE SIZE/LOCATION
- CATCH BASIN
- CLEAN OUT
- GAS VALVE
- GAS METER
- ⊙ WATER MANHOLE
- WATER VALVE
- FIRE HYDRANT
- WATER RISER
- WATER METER
- ⊙ COMMUNICATION RISER
- ⊙ ELECTRIC SUBSURFACE JUNCTION BOX
- ⊙ ELECTRIC SURFACE JUNCTION BOX
- ⊙ ELECTRIC METER
- UTILITY POLE
- CATENARY/GUY POLE
- GUY ANCHOR
- SIGN
- MAILBOX
- LINE CONTINUOUS
- DECIDUOUS TREE
- EVERGREEN TREE

- SS SANITARY LINE
- SD STORM LINE
- G GAS LINE
- OHL OVER HEAD UTILITY LINE
- W WATER LINE
- P POWER LINE
- COM COMMUNICATION LINE
- X FENCE (AS NOTED)
- RAMP

CONC = CONCRETE  
DEC = DECIDUOUS  
EVER = EVERGREEN



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**ARDENWALD NORTH IMPROVEMENTS**

SURVEY DATA - 28TH AVE & VAN WATER ST

PROJECT NO.:	W61	SHEET NO.:	5 OF 93	DATE:	9/13/2024	SHEET:	C004
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MATCHLINE SHEET C004

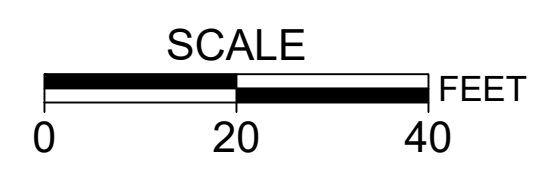
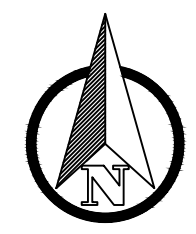
MATCHLINE SEE BELOW

MATCHLINE SHEET C007

MATCHLINE SHEET C008

MATCHLINE SEE ABOVE

MATCHLINE SHEET C009



NO.	DATE	BY	REVISIONS

TAP	3/11/2022	DATE
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JRN	9/13/2024	DATE
DRAFTED		
JAG	9/16/2024	DATE
CHECKED		
APPROVED		DATE



CITY OF MILWAUKIE

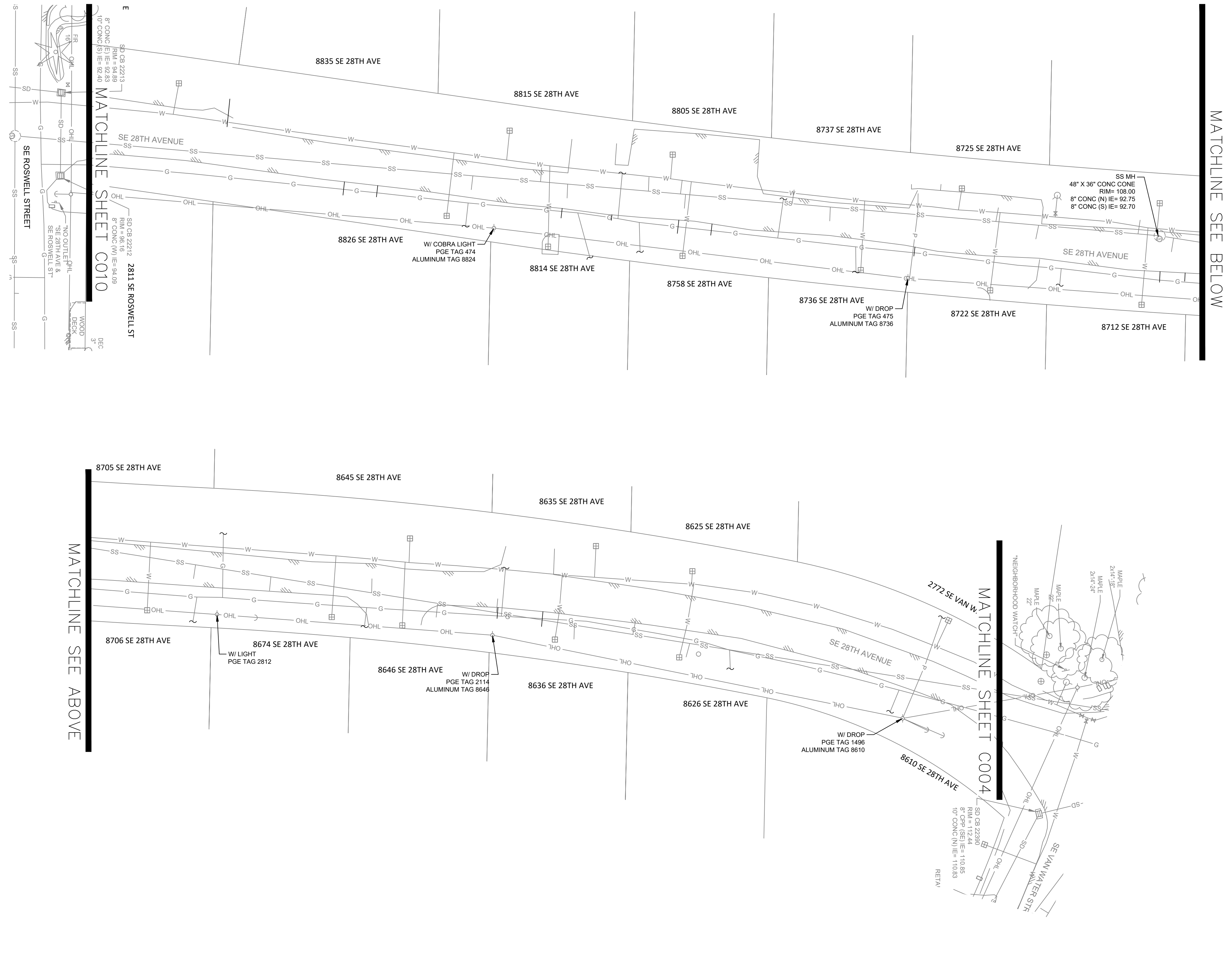
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ARDENWALD NORTH IMPROVEMENTS

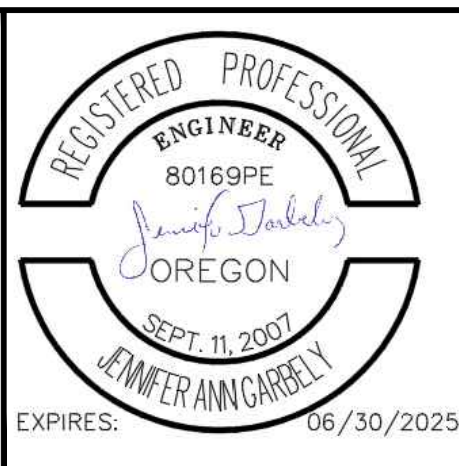
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PROJECT NO.:	W61	SHEET NO.:	6 OF 93	DATE:	9/13/2024	SHEET:	C005
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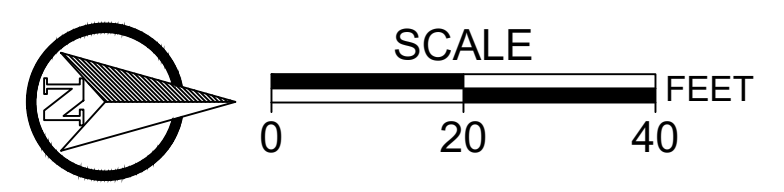
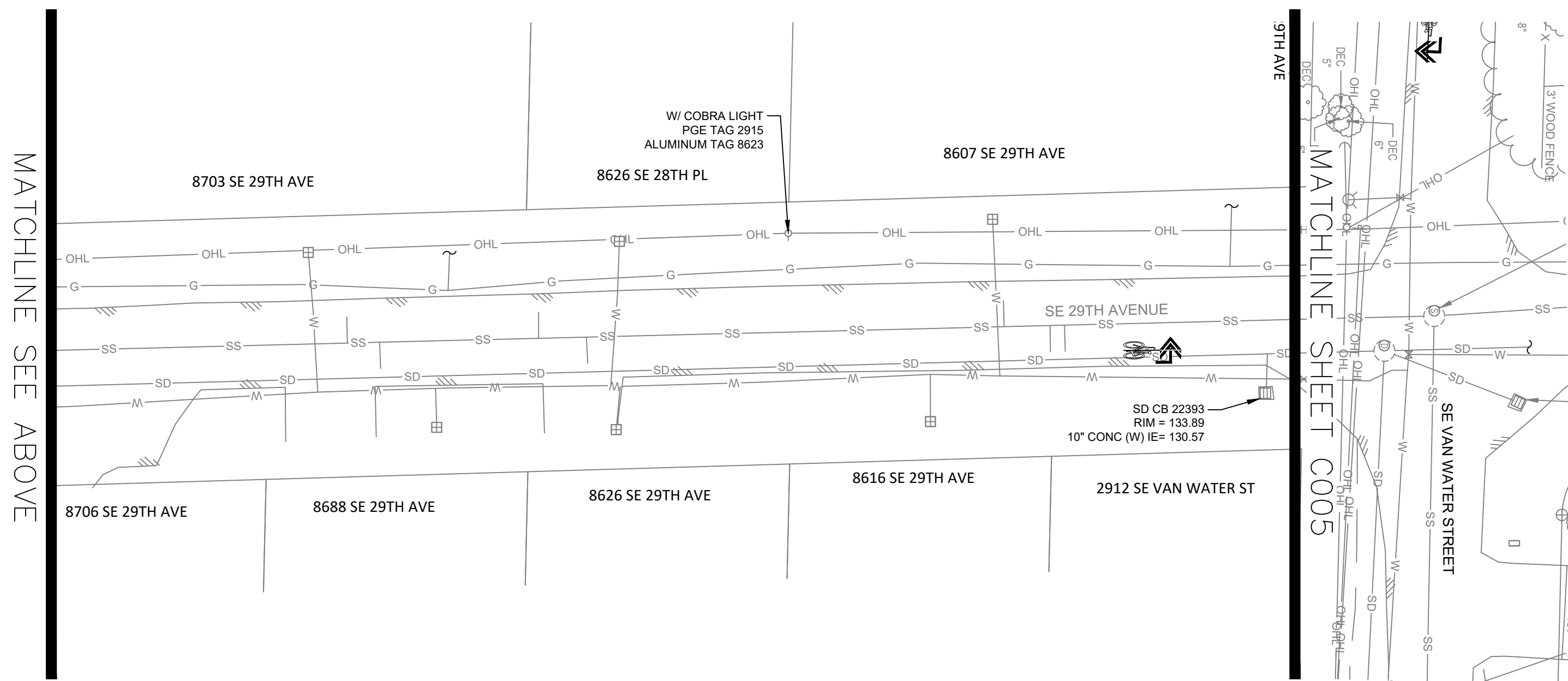
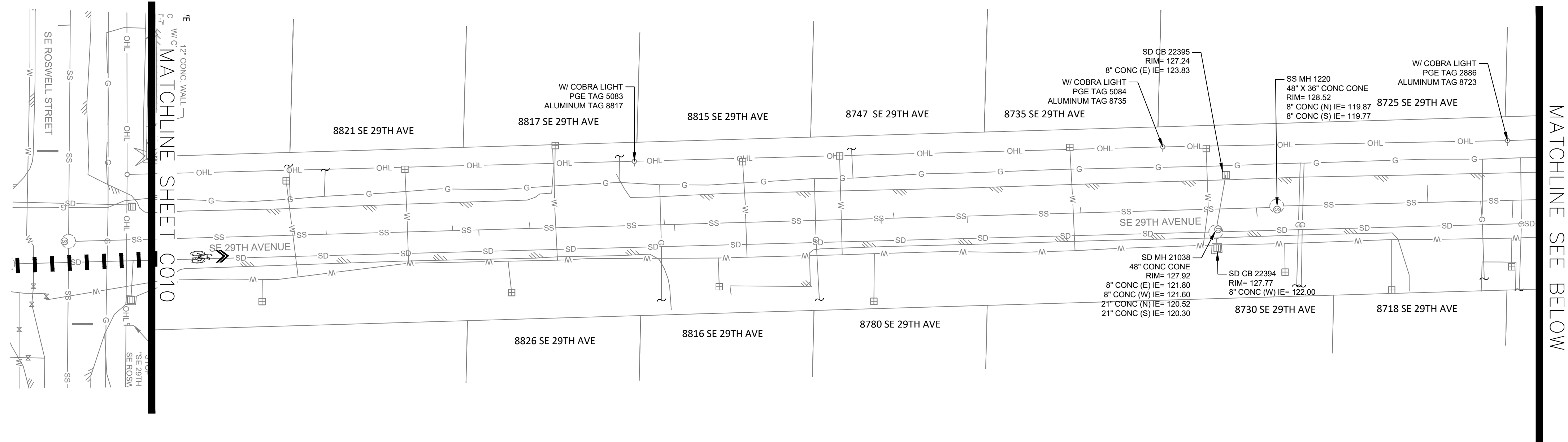
TAP DESIGNED	3/11/2022	DATE
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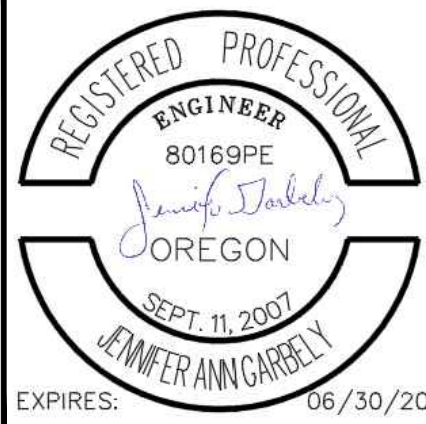
**ARDENWALD NORTH IMPROVEMENTS**  
 SURVEY DATA - 28TH AVE

PROJECT NO.:	W61	SHEET NO.:	7 OF 93	DATE:	9/13/2024	SHEET:	C006
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NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
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APPROVED		DATE



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**ARDENWALD NORTH IMPROVEMENTS**

SURVEY DATA - 29TH AVE

PROJECT NO.:	W61	SHEET NO.:	8 OF 93	DATE:	9/13/2024	SHEET:	C007
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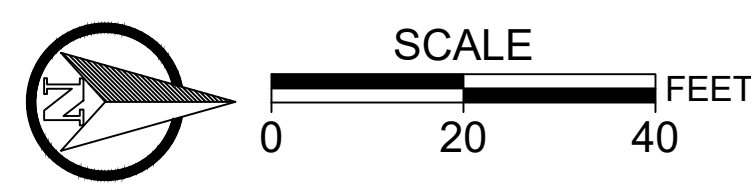
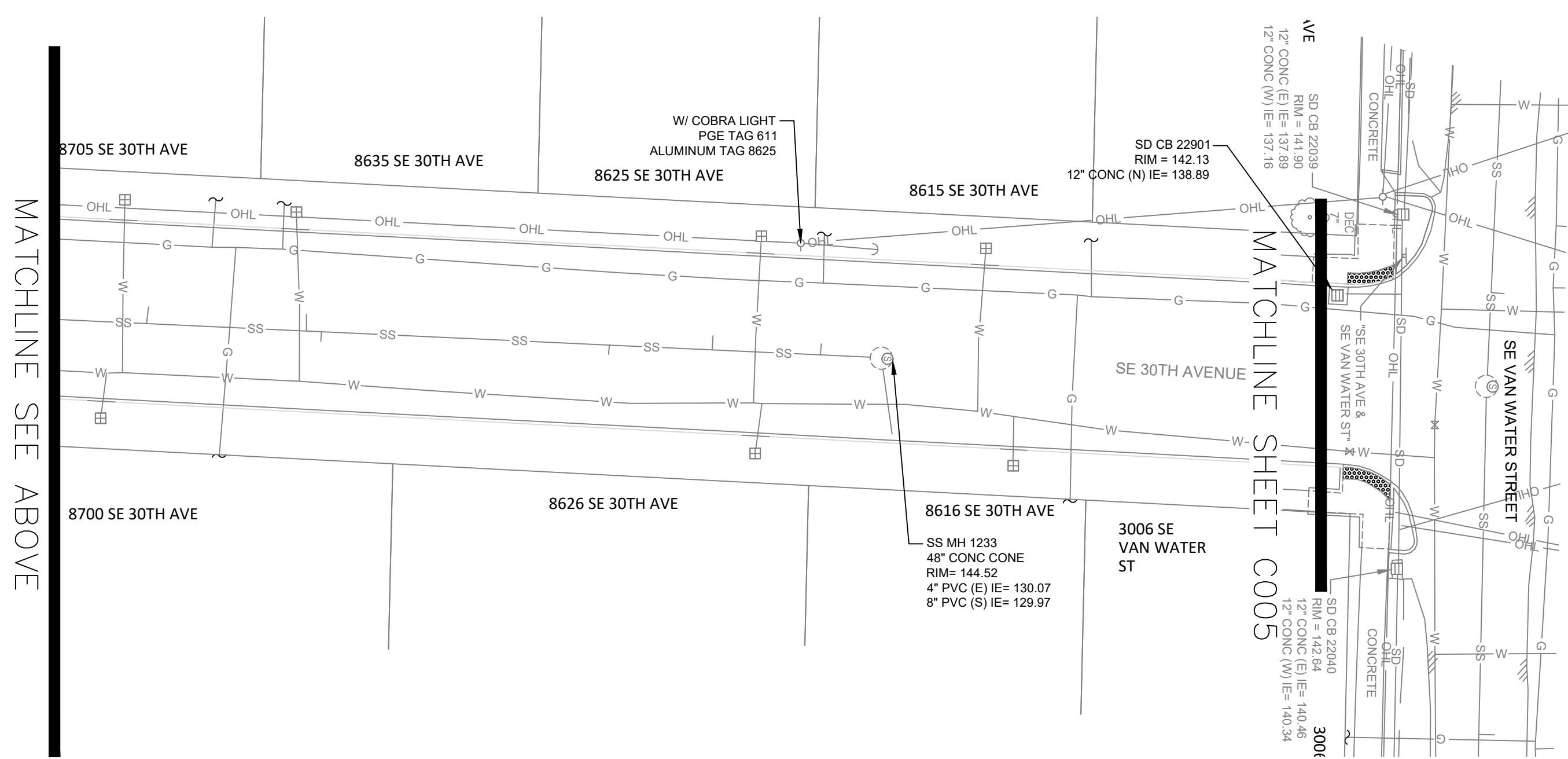
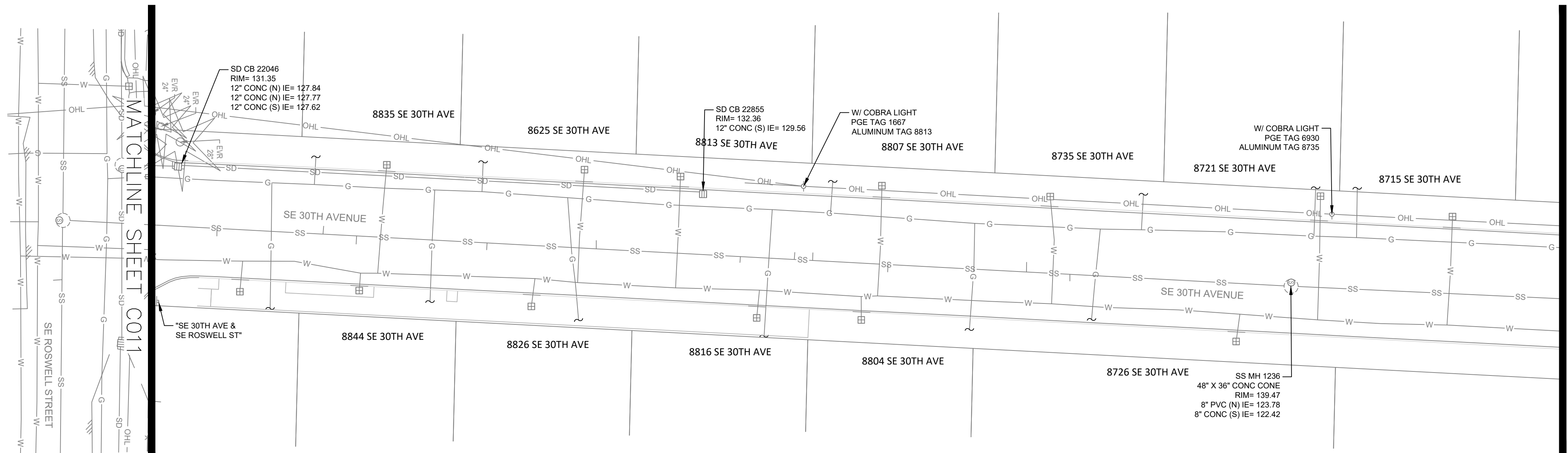


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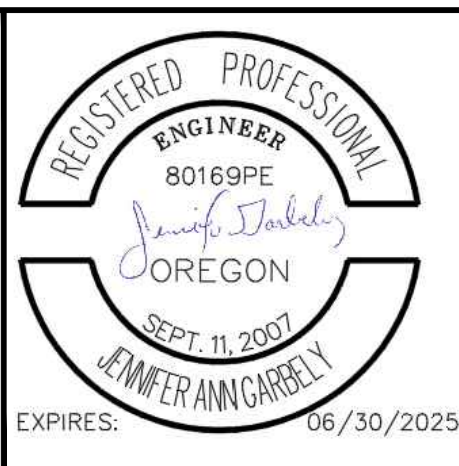
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NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
JRN DRAFTED	9/13/2024	DATE
JAG CHECKED	9/16/2024	DATE
APPROVED		DATE



**CITY OF MILWAUKIE**

10501 SE MAIN STREET  
MILWAUKIE, OR 97222

PHONE: 503-786-7600  
FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**

SURVEY DATA - 30TH AVE

PROJECT NO.: W61    SHEET NO.: 9 OF 93    DATE: 9/13/2024    SHEET: C008

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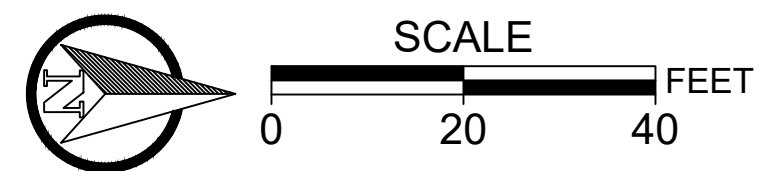
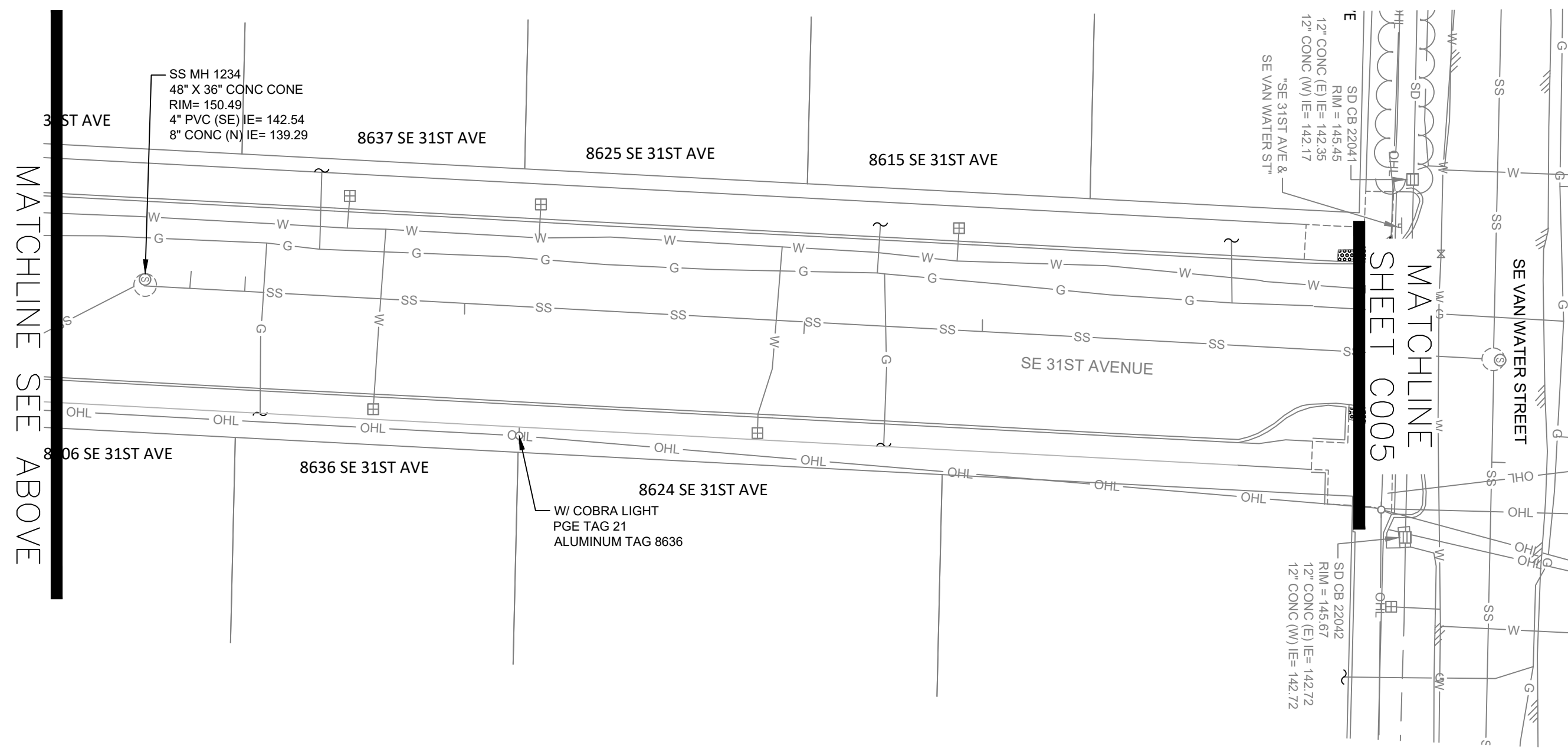
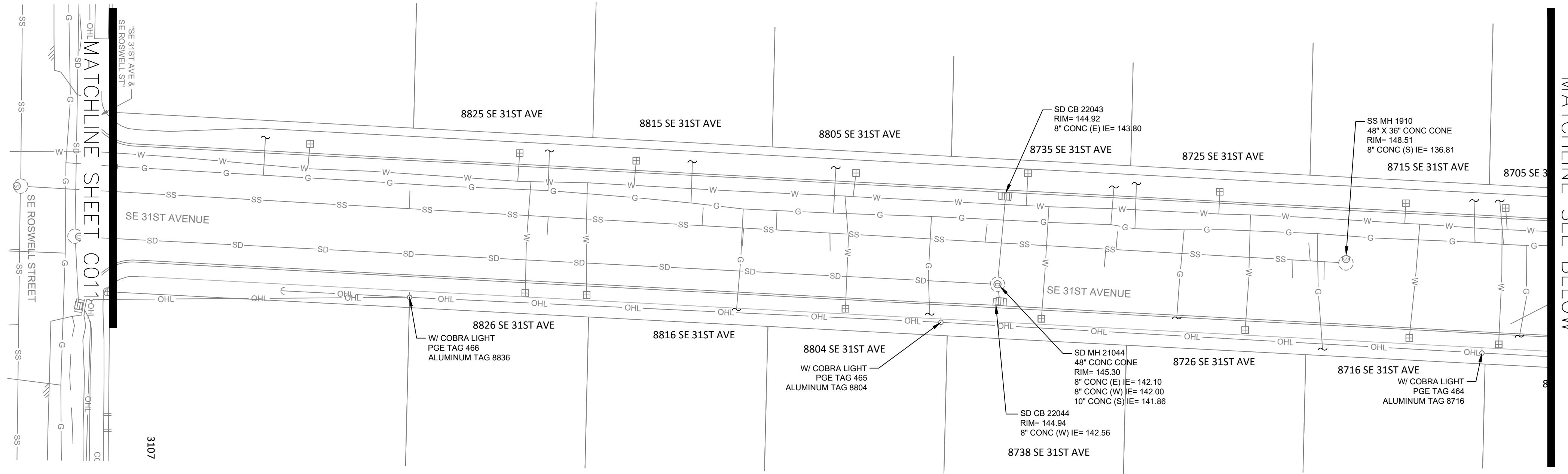
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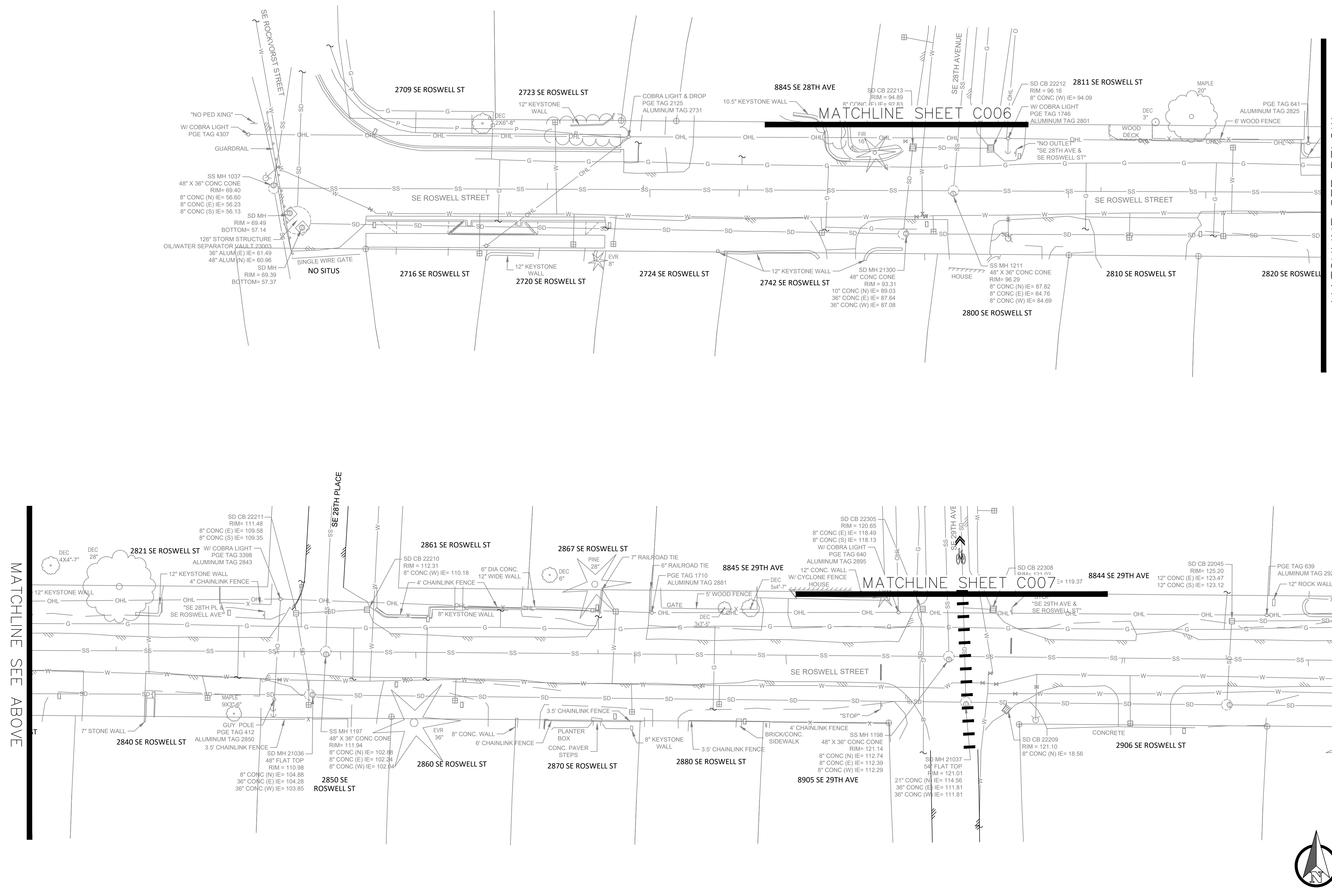



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**ARDENWALD NORTH IMPROVEMENTS**

SURVEY DATA - 31ST AVE

PROJECT NO.:	W61	SHEET NO.:	10 OF 93	DATE:	9/13/2024	SHEET:	C009
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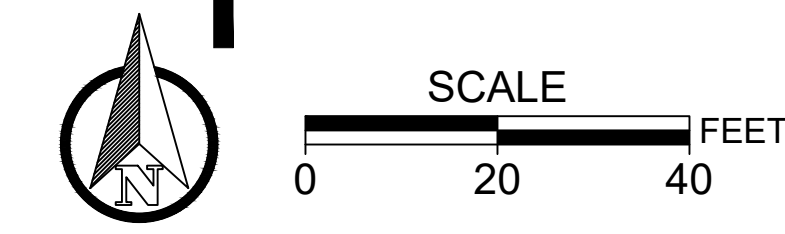
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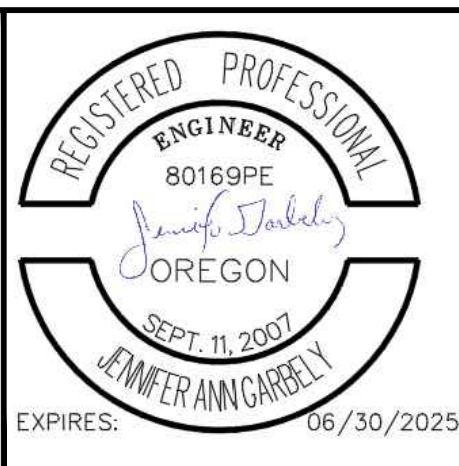
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NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
JRN DRAFTED	9/13/2024	DATE
JAG CHECKED	9/16/2024	DATE
APPROVED		DATE

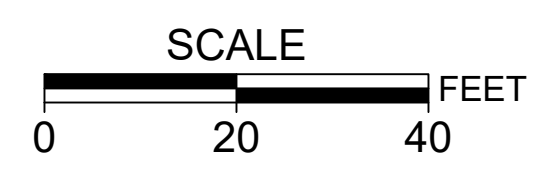
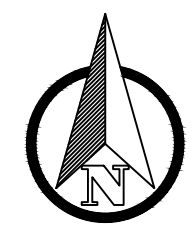
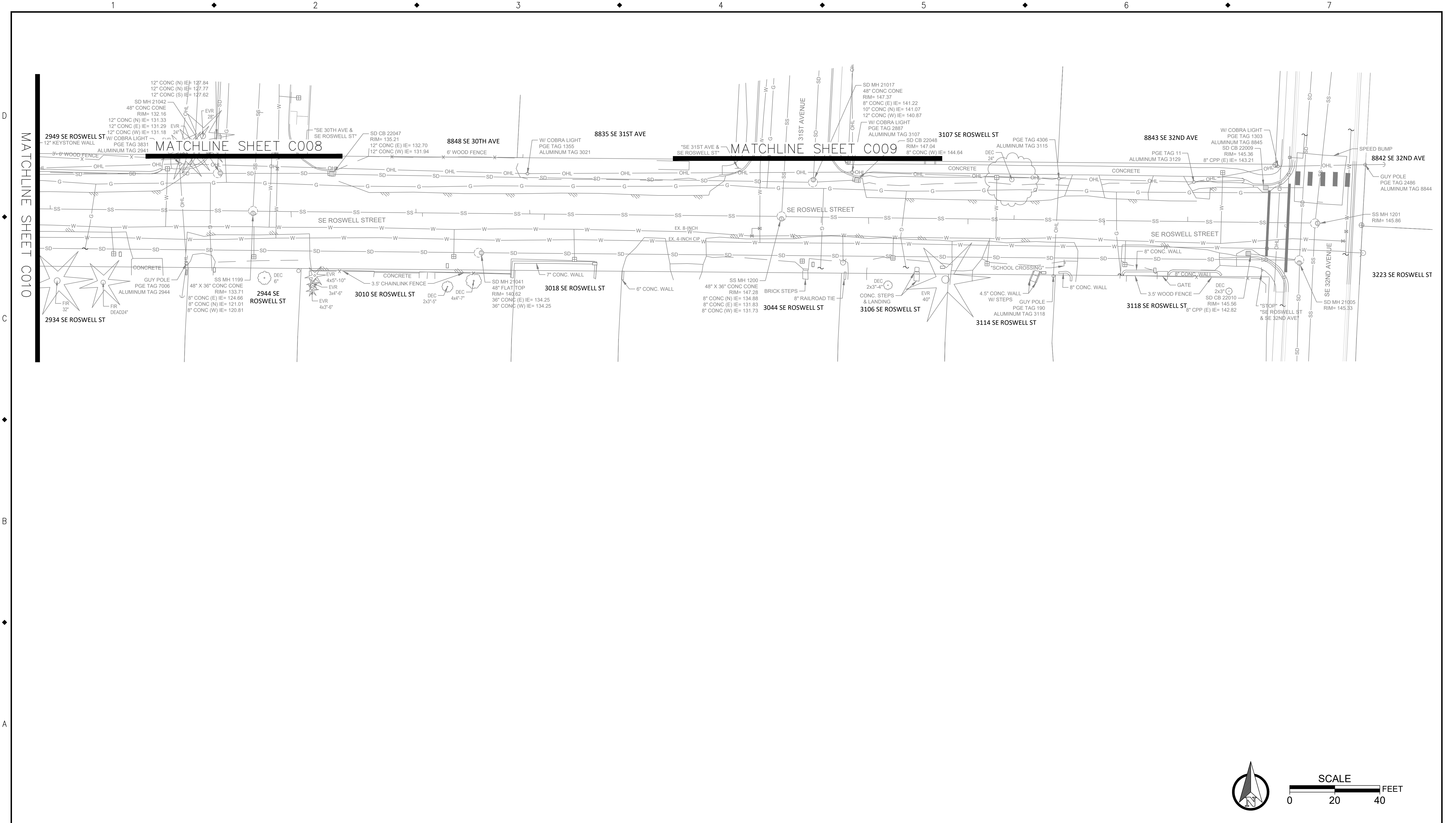


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**ARDENWALD NORTH IMPROVEMENTS**

SURVEY DATA - ROSWELL ST

PROJECT NO.:	W61	SHEET NO.:	11 OF 93	DATE:	9/13/2024	SHEET:	C010
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NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
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JAG CHECKED	9/16/2024	DATE
APPROVED		DATE



**CITY OF MILWAUKIE**

10501 SE MAIN STREET  
MILWAUKIE, OR 97222

PHONE: 503-786-7600  
FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**

SURVEY DATA - ROSWELL ST

PROJECT NO.:	W61	SHEET NO.:	12 OF 93	DATE:	9/13/2024	SHEET:	C011
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# ARDENWALD NORTH IMPROVEMENTS 1200CA EROSION AND SEDIMENT CONTROL PLANS

**OWNER/ENGINEER:**

NAME: CITY OF MILWAUKIE  
ADDRESS: 10722 SE MAIN ST  
MILWAUKIE OR 97222  
PHONE: 503-786-7548  
CONTACT: JOSH NEATH, EIT

**SURVEY FIRM:**

NAME: OTAK, INC.  
ADDRESS: 808 SW 3RD AVE.  
PORTLAND OR 97204  
PHONE: 503-287-6825

**CONTRACTOR**

NAME: TBD  
ADDRESS:  
PHONE:  
CONTACT:

**CESCL SITE INSPECTOR:**

NAME: TBD  
ADDRESS:

PHONE:  
CONTACT:

**BMP INSTALLER**

NAME:  
ADDRESS:

PHONE:  
CONTACT:

**BMP MAINTENANCE**

NAME:  
ADDRESS:

PHONE:  
CONTACT:

**SITE INFORMATION:**

- TYPE OF DEVELOPMENT: CITY CAPITAL IMPROVEMENT PLAN PROJECT
- CONSTRUCTION ACTIVITY WILL CONSIST OF:
  - ASPHALT GRIND AND INLAY
  - SIDEWALK RECONSTRUCTION AND RAMP UPGRADE FOR ADA COMPLIANCE
  - WASTEWATER SYSTEM PIPE BURSTING
  - WATER SYSTEM PIPE REPLACEMENT
  - STORM SYSTEM CATCH BASIN REPLACEMENT
- PROJECT TIMELINE: SPRING 2025 TO SUMMER 2025
- PROJECT SITE AREAS:
  - TOTAL SITE AREA: 7.98 ACRES (347,485 SF)
  - TOTAL EXISTING IMPERVIOUS AREA: 3.96 ACRES (172,500 SF)
  - TOTAL DISTURBED AREA: 1.36 ACRES (59,200 SF)
  - PERCENT OF SITE DISTURBED: 17.0%
- SITE SOIL CLASSIFICATION:
  - LATOURELL LOAM, 0 TO 8% SLOPES
  - QUATAMA LOAM, 0 TO 3% SLOPES
  - WAPATO SILTY CLAY LOAM

**RECEIVING WATER BODIES:**

NEAREST RECEIVING BODY: JOHNSON CREEK  
303(d) CATEGORY 4 & 5 IMPAIRMENT STATUS:  
JOHNSON CREEK CATEGORY 5: TEMPERATURE- YEAR ROUND; TEMPERATURE- SPAWNING; IRON (TOTAL)- AQUATIC LIFE; BIOCRITERIA; ENDOSULFAN- AQUATIC LIFE; POLYCHLORINATED BIPHENYLS (PCBS)- HUMAN HEALTH; POLYCYCLIC AROMATIC HYDROCARBONS (PAHS)- HUMAN HEALTH; ENDRIN ALDEHYDE- HUMAN HEALTH. CATEGORY 4A: E. COLI; DDE 4,4'- HUMAN HEALTH; DDT 4,4'- HUMAN HEALTH; DIELDRIN- HUMAN HEALTH

**RAIN GAGE:**

HARNEY RAIN GAGE at 2033 SE HARNEY (STATION #64) <https://or.water.usgs.gov/non-usgs/bes/>

**PROJECTED SCHEDULE**

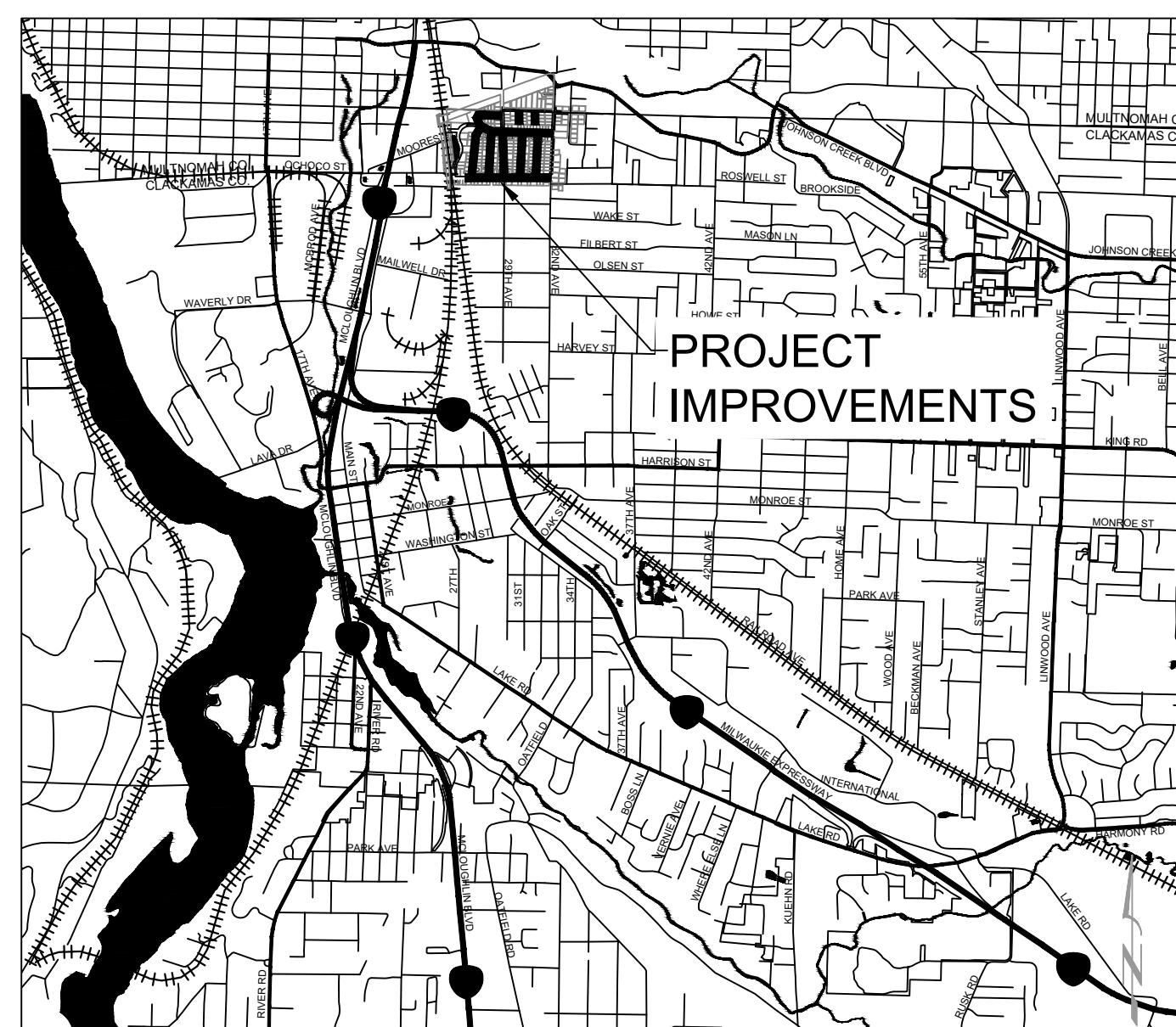
CLEARING AND GRUBBING: NA  
GRADING: NA  
DEMOLITION: NA  
SITE PREPARATION (EXCAVATION): 3/17/25 TO 4/4/25  
FINAL GRADING: 6/16/25 TO 8/1/25  
STOCKPILING: NA  
FINAL STABILIZATION: 9/22/25 TO 9/26/25  
REMOVAL OF STORMWATER CONTROLS AND CONSTRUCTION EQUIPMENT: 10/20/25 TO 10/24/25  
FINAL DATE OF CONSTRUCTION POLLUTANT-GENERATING ACTIVITIES: 10/31/25

**WORK DAYS & HOURS**

MONDAY THROUGH FRIDAY 7:00 AM TO 7:00 PM  
SATURDAY 8:00 AM TO 5:00 PM  
CITY INSPECTOR WORK HOURS ARE MONDAY THROUGH FRIDAY 8:00 AM TO 5:00 PM

**SHEET INDEX**

SHEET NO.	DESCRIPTION
C020	EROSION & SEDIMENT CONTROL COVER SHEET
C021	EROSION & SEDIMENT CONTROL NOTES
C022	28TH AVE & VAN WATER ST DEMOLITION & EROSION CONTROL
C023	VAN WATER ST DEMOLITION & EROSION CONTROL
C024	VAN WATER ST DEMOLITION & EROSION CONTROL
C025	ROSWELL ST DEMOLITION & EROSION CONTROL
C026	ROSWELL ST DEMOLITION & EROSION CONTROL
C027	ROSWELL ST DEMOLITION & EROSION CONTROL
C028	SHERRETT ST, 28TH AVE & 28TH PL DEMOLITION & EROSION CONTROL
C029	29TH AVE, 30TH AVE & 31ST AVE DEMOLITION & EROSION CONTROL
C030	30TH AVE, 31ST AVE DEMOLITION & EROSION CONTROL
C040	28TH AVE & VAN WATER ST GRADING, STREET, AND UTILITY ESCP
C041	VAN WATER ST GRADING, STREET, AND UTILITY ESCP
C042	VAN WATER ST GRADING, STREET, AND UTILITY ESCP
C043	ROSWELL ST GRADING, STREET, AND UTILITY ESCP
C044	ROSWELL ST GRADING, STREET, AND UTILITY ESCP
C045	ROSWELL ST GRADING, STREET, AND UTILITY ESCP
C046	SHERRETT ST, 28TH AVE, 28TH PL GRADING, STREET, AND UTILITY ESCP
C047	29TH AVE, 30TH AVE & 31ST AVE GRADING, STREET, AND UTILITY ESCP
C048	30TH AVE, 31ST AVE GRADING, STREET, AND UTILITY ESCP
C050	28TH AVE & VAN WATER ST FINAL STABILIZATION
C051	VAN WATER ST FINAL STABILIZATION
C052	VAN WATER ST FINAL STABILIZATION
C053	ROSWELL ST FINAL STABILIZATION
C054	ROSWELL ST FINAL STABILIZATION
C055	ROSWELL ST FINAL STABILIZATION
C056	SHERRETT ST, 28TH AVE, 28TH PL FINAL STABILIZATION
C057	29TH AVE, 30TH AVE, 31ST AVE FINAL STABILIZATION
C058	30TH AVE, 31ST AVE FINAL STABILIZATION
C060	EROSION & SEDIMENT CONTROL DETAILS



VICINITY MAP

1" = 2,500'



SITE MAP: CENTROID OF PROJECT 45.459825, -122.632282

NOT TO SCALE

**ATTENTION EXCAVATORS**

OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 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, BEFORE COMMENCING AN EXCAVATION. CALL 503-246-6699.



**BMP MATRIX FOR CONSTRUCTION PHASES**

REFER TO DEQ GUIDANCE MANUAL FOR A COMPREHENSIVE LIST OF AVAILABLE BMP'S.

	CLEARING	MASS GRADING	UTILITY INSTALLATION	STREET CONSTRUCTION	FINAL STABILIZATION	WET WEATHER (OCT 1-MAY 31)
<b>EROSION PREVENTION</b>						
PRESERVE NATURAL VEGETATION			**	**	**	**
GROUND COVER			**	**	**	**
HYDRAULIC APPLICATIONS						
PLASTIC SHEETING						
MATTING						
DUST CONTROL				**		
TEMPORARY/ PERMANENT SEEDING						
BUFFER ZONE						
OTHER:						
<b>SEDIMENT CONTROL</b>						
SEDIMENT FENCE (PERIMETER)						
SEDIMENT FENCE (INTERIOR)						
STRAW WATTLES						
FILTER BERM						
INLET PROTECTION			**	**	**	**
DEWATERING						
SEDIMENT TRAP			**	**		
OTHER:						
<b>RUN OFF CONTROL</b>						
CONSTRUCTION ENTRANCE						
PIPE SLOPE DRAIN						
OUTLET PROTECTION			**	**	**	**
SURFACE ROUGHENING						
CHECK DAMS						
OTHER:						
<b>POLLUTION PREVENTION</b>						
PROPER SIGNAGE			**	**	**	**
HAZ WASTE MGMT			**	**	**	**
SPILL KIT ON-SITE			**	**	**	**
CONCRETE WASHOUT AREA			**	**		**
OTHER:						

\*\* SIGNIFIES BMP THAT WILL BE INSTALLED PRIOR TO ANY GROUND DISTURBING ACTIVITY.

■ SIGNIFIES NOT APPLICABLE TO THIS PROJECT

**RATIONALE STATEMENT**

A COMPREHENSIVE LIST OF AVAILABLE BEST MANAGEMENT PRACTICES (BMP) OPTIONS BASED ON DEQ'S GUIDANCE MANUAL HAS BEEN REVIEWED TO COMPLETE THIS EROSION AND SEDIMENT CONTROL PLAN. SOME OF THE ABOVE LISTED BMP'S WERE NOT CHOSEN BECAUSE THEY WERE DETERMINED TO NOT EFFECTIVELY MANAGE EROSION PREVENTION AND SEDIMENT CONTROL FOR THIS PROJECT BASED ON SPECIFIC SITE CONDITIONS, INCLUDING SOIL CONDITIONS, TOPOGRAPHIC CONSTRAINTS, ACCESSIBILITY TO THE SITE, AND OTHER RELATED CONDITIONS, AS THE PROJECT PROGRESSES AND THERE IS A NEED TO REVISE THE ESC PLAN, AN ACTION PLAN WILL BE SUBMITTED.

INITIAL \_\_\_\_\_

THE PERMITTEE IS REQUIRED TO MEET ALL THE CONDITIONS OF THE DEQ 1200-CN PERMIT. THE ESC PLAN AND GENERAL CONDITIONS HAVE BEEN DEVELOPED TO FACILITATE COMPLIANCE WITH THE 1200-CN PERMIT REQUIREMENTS. IN CASES OF DISCREPANCIES OR OMISSIONS, THE 1200-CN PERMIT REQUIREMENTS SUPERCEDE REQUIREMENTS OF THIS PLAN.

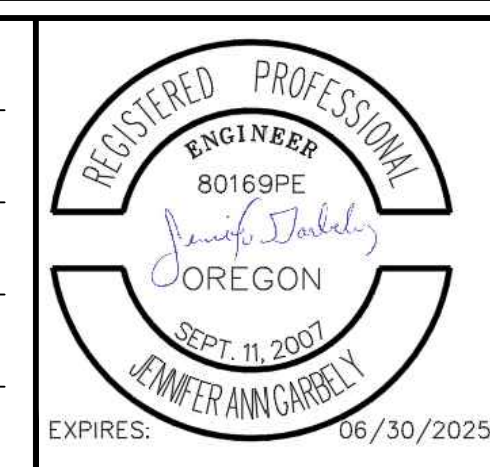
**INSPECTION FREQUENCY:**

SITE CONDITION	MINIMUM FREQUENCY
1. ACTIVE PERIOD	ON INITIAL DATE THAT LAND DISTURBANCE ACTIVITIES COMMENCE. WITHIN 24 HOURS OF ANY STORM EVENT, INCLUDING RUNOFF FROM SNOW MELT, THAT RESULTS IN DISCHARGE FROM THE SITE. AT LEAST ONCE EVERY 14 DAYS, REGARDLESS OF WHETHER STORMWATER RUNOFF IS OCCURRING.
2. INACTIVE PERIODS GREATER THAN FOURTEEN (14) CONSECUTIVE CALENDAR DAYS	THE INSPECTOR MAY REDUCE THE FREQUENCY OF INSPECTIONS IN ANY AREA OF THE SITE WHERE THE STABILIZATION STEPS FOR EROSION AND SEDIMENT CONTROL ARE IN WORKING ORDER TO TWICE PER MONTH FOR THE FIRST MONTH, NO LESS THAN 14 CALENDAR DAYS APART, THEN ONCE PER MONTH.
3. PERIOD DURING WHICH THE SITE IS INACCESSIBLE DUE TO INCLEMENT WEATHER	IF SAFE, ACCESSIBLE, AND PRACTICAL, INSPECTIONS MUST OCCUR DAILY AT A RELEVANT DISCHARGE POINT OR DOWNSTREAM LOCATION OF THE RECEIVING WATERBODY.
4. PERIODS DURING WHICH CONSTRUCTION ACTIVITIES ARE SUSPENDED AND RUNOFF IS UNLIKELY DUE TO FROZEN CONDITIONS	VISUAL MONITORING INSPECTIONS MAY BE TEMPORARILY SUSPENDED. IMMEDIATELY RESUME MONITORING UPON THAWING, OR WHEN WEATHER CONDITIONS MAKE DISCHARGES LIKELY.
5. PERIODS DURING WHICH CONSTRUCTION ACTIVITIES ARE CONDUCTED AND RUNOFF IS UNLIKELY DUE TO FROZEN CONDITIONS	VISUAL MONITORING INSPECTIONS MAY BE REDUCED TO ONCE A MONTH. IMMEDIATELY RESUME MONITORING UPON THAWING, OR WHEN WEATHER CONDITIONS MAKE DISCHARGES LIKELY.

- \* HOLD A PRE-CONSTRUCTION MEETING OF PROJECT CONSTRUCTION PERSONNEL, INCLUDING THE INSPECTOR, TO DISCUSS EROSION AND SEDIMENT CONTROL MEASURES AND CONSTRUCTION LIMITS.
- \* ALL INSPECTIONS MUST BE MADE IN ACCORDANCE WITH 1200-CN PERMIT REQUIREMENTS.
- \* INSPECTION LOGS MUST BE KEPT IN ACCORDANCE WITH 1200-CN PERMIT REQUIREMENTS.
- \* RETAIN A COPY OF THE ESC PLAN AND ALL REVISIONS ON SITE AND MAKE IT AVAILABLE ON REQUEST TO DEQ, AGENT, OR THE LOCAL MUNICIPALITY. DURING INACTIVE PERIODS OF GREATER THAN SEVEN (7) CONSECUTIVE CALENDAR DAYS, RETAIN THE ESC PLAN AT THE CONSTRUCTION SITE OR AT ANOTHER LOCATION.
- \* CHANGES TO THE APPROVED ESC PLAN MUST BE SUBMITTED TO DEQ IN THE FORM OF AN ACTION PLAN.

NO.	DATE	BY	REVISIONS

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**CITY OF MILWAUKIE**

10501 SE MAIN STREET  
MILWAUKIE, OR 97222

PHONE: 503-786-7600  
FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**

EROSION & SEDIMENT CONTROL COVER SHEET

PROJECT NO.: W61	SHEET NO.: 13 OF 93	DATE: 9/13/2024	SHEET: C020
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# STANDARD EROSION AND SEDIMENT CONTROL PLAN DRAWING NOTES

- 1. Once known, include a list of all contractors that will engage in construction activities on site, and the areas of the site where the contractor(s) will engage in construction activities. Revise the list as appropriate until permit coverage is terminated (Section 4.4.c.i). In addition, include a list of all personnel (by name and position) that are responsible for the design, installation and maintenance of stormwater control measures (e.g. ESCP developer, BMP installer (see Section 4.10), as well as their individual responsibilities. (Section 4.4.c.ii)
- 2. Visual monitoring inspection reports must be made in accordance with DEQ 1200-C permit requirements. (Section 6.5)
- 3. Inspection logs must be kept in accordance with DEQ's 1200-C permit requirements. (Section 6.5.a)
- 4. Retain a copy of the ESCP and all revisions on site and make it available on request to DEQ, Agent, or the local municipality. (Section 4.7)
- 5. The permit registrant must implement the ESCP. Failure to implement any of the control measures or practices described in the ESCP is a violation of the permit. (Sections 4 and 4.11)
- 6. The ESCP must be accurate and reflect site conditions. (Section 4.8)
- 7. Submission of all ESCP revisions is not required. Submittal of the ESCP revisions is only under specific conditions. Submit all necessary revision to DEQ or Agent within 10 days. (Section 4.9)
- 8. Sequence clearing and grading to the maximum extent practical to prevent exposed inactive areas from becoming a source of erosion. (Section 2.2.2)
- 9. Create smooth surfaces between soil surface and erosion and sediment controls to prevent stormwater from bypassing controls and ponding. (section 2.2.3)
- 10. Identify, mark, and protect (by construction fencing or other means) critical riparian areas and vegetation including important trees and associated rooting zones, and vegetation areas to be preserved. Identify vegetative buffer zones between the site and sensitive areas (e.g., wetlands), and other areas to be preserved, especially in perimeter areas. (Section 2.2.1)
- 11. Preserve existing vegetation when practical and re-vegetate open areas. Re-vegetate open areas when practicable before and after grading or construction. Identify the type of vegetative seed mix used. (Section 2.2.5)
- 12. Maintain and delineate any existing natural buffer within the 50-feet of waters of the state. (Section 2.2.4)
- 13. Install perimeter sediment control, including storm drain inlet protection as well as all sediment basins, traps, and barriers prior to land disturbance. (Sections 2.1.3)
- 14. Control both peak flow rates and total stormwater volume, to minimize erosion at outlets and downstream channels and streambanks. (Sections 2.1.1. and 2.2.16)
- 15. Control sediment as needed along the site perimeter and at all operational internal storm drain inlets at all times during construction, both internally and at the site boundary. (Sections 2.2.6 and 2.2.13)
- 16. Establish concrete truck and other concrete equipment washout areas before beginning concrete work. (Section 2.2.14)
- 17. Apply temporary and/or permanent soil stabilization measures immediately on all disturbed areas as grading progresses. Temporary or permanent stabilizations measures are not required for areas that are intended to be left unvegetated, such as dirt access roads or utility pole pads. (Sections 2.2.20 and 2.2.21)
- 18. Establish material and waste storage areas, and other non-stormwater controls. (Section 2.3.7)
- 19. Keep waste container lids closed when not in use and close lids at the end of the business day for those containers that are actively used throughout the day. For waste containers that do not have lids, provide either (1) cover (e.g., a tarp, plastic sheeting, temporary roof) to prevent exposure of wastes to precipitation, or (2) a similarly effective means designed to prevent the discharge of pollutants (e.g., secondary containment). (Section 2.3.7)
- 20. Prevent tracking of sediment onto public or private roads using BMPs such as: construction entrance, graveled (or paved) exits and parking areas, gravel all unpaved roads located onsite, or use an exit tire wash. These BMPs must be in place prior to land- disturbing activities. (Section 2.2.7)
- 21. When trucking saturated soils from the site, either use water-tight trucks or drain loads on site. (Section 2.2.7.f)
- 22. Control prohibited discharges from leaving the construction site, i.e., concrete wash-out, wastewater from cleanout of stucco, paint and curing compounds. (Sections 1.5 and 2.3.9)
- 23. Ensure that steep slope areas where construction activities are not occurring are not disturbed. (Section 2.2.10)
- 24. Prevent soil compaction in areas where post-construction infiltration facilities are to be installed. (Section 2.2.12)
- 25. Use BMPs to prevent or minimize stormwater exposure to pollutants from spills; vehicle and equipment fueling, maintenance, and storage; other cleaning and maintenance activities; and waste handling activities. These pollutants include fuel, hydraulic fluid, and other oils from vehicles and machinery, as well as debris, fertilizer, pesticides and herbicides, paints, solvents, curing compounds and adhesives from construction operations. (Sections 2.2.15 and 2.3)
- 26. Provide plans for sedimentation basins that have been designed per Section 2.2.17 and stamped by an Oregon Professional Engineer. (See Section 2.2.17.a)
- 27. If engineered soils are used on site, a sedimentation basin/impoundment must be installed. (See Sections 2.2.17 and 2.2.18)
- 28. Provide a dewatering plan for accumulated water from precipitation and uncontaminated groundwater seepage due to shallow excavation activities. (See Section 2.4)
- 29. Implement the following BMPs when applicable: written spill prevention and response procedures, employee training on spill prevention and proper disposal procedures, spill kits in all vehicles, regular maintenance schedule for vehicles and machinery, material delivery and storage controls, training and signage, and covered storage areas for waste and supplies. (Section 2.3)
- 30. Use water, soil-binding agent or other dust control technique as needed to avoid wind-blown soil. (Section 2.2.9)
- 31. The application rate of fertilizers used to reestablish vegetation must follow manufacturer's recommendations to minimize nutrient releases to surface waters. Exercise caution when using time-release fertilizers within any waterway riparian zone. (Section 2.3.5)
- 32. If an active treatment system (for example, electro-coagulation, flocculation, filtration, etc.) for sediment or other pollutant removal is employed, submit an operation and maintenance plan (including system schematic, location of system, location of inlet, location of discharge, discharge dispersion device design, and a sampling plan and frequency) before operating the treatment system. Obtain Environmental Management Plan approval from DEQ before operating the treatment system. Operate and maintain the treatment system according to manufacturer's specifications. (Section 1.2.9)
- 33. Temporarily stabilize soils at the end of the shift before holidays and weekends, if needed. The registrant is responsible for ensuring that soils are stable during rain events at all times of the year. (Section 2.2)
- 34. As needed based on weather conditions, at the end of each workday soil stockpiles must be stabilized or covered, or other BMPs must be implemented to prevent discharges to surface waters or conveyance systems leading to surface waters. (Section 2.2.8)
- 35. Sediment fence: remove trapped sediment before it reaches one third of the above ground fence height and before fence removal. (Section 2.1.5.b)

# STANDARD EROSION AND SEDIMENT CONTROL PLAN DRAWING NOTES (CONTINUED)

- 36. Other sediment barriers (such as biobags): remove sediment before it reaches two inches depth above ground height and before BMP removal. (Section 2.1.5.c)
- 37. Catch basins: clean before retention capacity has been reduced by fifty percent. Sediment basins and sediment traps: remove trapped sediments before design capacity has been reduced by fifty percent and at completion of project. (Section 2.1.5.d)
- 38. Within 24 hours, significant sediment that has left the construction site, must be remediated. Investigate the cause of the sediment release and implement steps to prevent a recurrence of the discharge within the same 24 hours. Any in-stream clean-up of sediment shall be performed according to the Oregon Department of State Lands required timeframe. (Section 2.2.19.a)
- 39. The intentional washing of sediment into storm sewers or drainage ways must not occur. Vacuuming or dry sweeping and material pickup must be used to cleanup released sediments. (Section 2.2.19)
- 40. Document any portion(s) of the site where land disturbing activities have permanently ceased or will be temporarily inactive for 14 or more calendar days. (Section 6.5.f.)
- 41. Provide temporary stabilization for that portion of the site where construction activities cease for 14 days or more with a covering of blown straw and a tackifier, loose straw, or an adequate covering of compost mulch until work resumes on that portion of the site. (Section 2.2.20)
- 42. Do not remove temporary sediment control practices until permanent vegetation or other cover of exposed areas is established. Once construction is complete and the site is stabilized, all temporary erosion controls and retained soils must be removed and disposed of properly, unless needed for long term use following termination of permit coverage. (Section 2.2.21)

# LOCAL AGENCY-SPECIFIC EROSION CONTROL NOTES

- 1. ALL EROSION PREVENTION MEASURES SHALL BE IN PLACE, FUNCTIONAL, AND APPROVED IN ACCORDANCE WITH THE APPROVED EROSION PREVENTION AND SEDIMENT CONTROL PLAN PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES. ALL SOIL DISTURBING AND CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED IN ACCORDANCE WITH MMC CHAPTER 16.28 EROSION CONTROL AND ANY APPLICABLE LOCAL, STATE, OR FEDERAL REQUIREMENTS.
- 2. ALTERNATE SEDIMENT CONTROLS MUST PROVIDE A DISCHARGE THAT IS CLEAN AND FREE OF SEDIMENT, SURFACTANTS, AND OTHER POLLUTANTS PRIOR TO ENTERING THE STORM SYSTEM. APPROVAL OF ALTERNATIVE SEDIMENT CONTROLS BY THE CITY OF MILWAUKIE ENVIRONMENTAL SERVICES COORDINATOR IS REQUIRED PRIOR TO INSTALLATION.
- 3. DUMPING OR DISPOSAL OF SPOIL MATERIALS INTO ANY STREAM CORRIDOR, WETLAND, SURFACE WATER, OR ON ANY PUBLIC OR PRIVATE PROPERTY NOT SPECIFIED FOR SAID PURPOSE IS PROHIBITED.
- 4. SEDIMENT AND POLLUTANTS SHALL NOT BE WASHED INTO STORM SEWERS, DRAINAGE WAYS, OR WATER BODIES. DRY SWEEPING SHALL BE IMPLEMENTED TO CLEAN UP CONSTRUCTION AREAS TO PREVENT RELEASE OF SEDIMENTS INTO THE STORM SYSTEM.
- 5. DISPOSAL OF SEDIMENT LADEN WATER INTO THE WASTEWATER SYSTEM IS PROHIBITED, UNLESS PRIOR WRITTEN APPROVAL IS RECEIVED FROM THE CITY OF MILWAUKIE ENVIRONMENTAL SERVICES COORDINATOR. SEDIMENT LADEN WATER SHALL BE PUMPED THROUGH AN APPROVED SEDIMENT CONTROL BMP PRIOR TO DISPOSAL INTO THE WASTEWATER SYSTEM.
- 6. SAWCUTTING SLURRY AND DEBRIS SHALL BE VACUUMED AND REMOVED FROM ALL IMPERVIOUS SURFACES. VACUUMED SAWCUTTING SLURRY SHALL BE PROPERLY DISPOSED OF AND NOT DISCHARGED INTO THE STORM SYSTEM.
- 7. AN AREA SHALL BE DESIGNATED FOR WASHING OUT CONCRETE TRUCKS SUCH THAT RUNOFF FROM WASHING ACTIVITIES ARE CONTAINED AND DO NOT LEAVE THE SITE OR ENTER THE STORM SYSTEM.
- 8. SWEEPING FROM EXPOSED AGGREGATE CONCRETE SHALL NOT BE WASHED TO THE STREET OR STORM SYSTEM. SWEEPING SHALL BE COLLECTED AND PROPERLY DISPOSED OF IN THE TRASH.
- 9. PAVING IN WET WEATHER WHEN PAVING CHEMICALS CAN RUN OFF INTO THE STORM SYSTEM IS PROHIBITED.
- 10. TRACKING OF DIRT AND DEBRIS ONTO IMPERVIOUS SURFACES, SUCH AS STREETS AND PARKING LOTS, IS PROHIBITED. IMPERVIOUS SURFACES SHALL BE KEPT FREE OF DIRT AND DEBRIS AT ALL TIME IF IT CAN BE SPREAD BY TRAFFIC OR CAN ENTER THE STORM SYSTEM.
- 11. GRAVEL OR DIRT CURB RAMPS ARE PROHIBITED. ONLY WOOD STEP STYLE CURB RAMPS ARE ALLOWED.
- 12. UPON COMPLETION OF SITE RESTORATION AND APPROVAL FROM THE CITY OF MILWAUKIE ENGINEERING DIRECTOR, ALL TEMPORARY EROSION CONTROL MEASURES MAY BE REMOVED.
- 13. DRAINAGE FROM SPRINGS OR GROUNDWATER MUST BE ADDRESSED DURING CONSTRUCTION BY THE CONTRACTOR. DISCHARGE FROM GROUNDWATER ENCOUNTERED ON THE SITE MUST BE CLEAN OF SEDIMENT OR POLLUTANTS.
- 14. AREA SUBJECT TO WIND EROSION SHALL USE APPROPRIATE DUST CONTROL MEASURES INCLUDING THE APPLICATION OF A FINE SPRAY OF WATER, PLASTIC SHEETING, STRAW MULCH, OR OTHER APPROVED MEASURE.
- 15. DATES OF IMPLEMENTATION OF WET WEATHER MEASURES ARE OCTOBER 1ST TO APRIL 30TH.
- 16. MATERIAL SHALL NOT BE STOCKPILED ON PUBLIC STREETS OR IN THE RIGHT-OF-WAY LONGER THAN IMMEDIATE USE.
- 17. PRIOR TO ANY LAND DISTURBING ACTIVITIES, THE BOUNDARIES OF THE CLEARING LIMITS, VEGETATED BUFFERS, AND ANY SENSITIVE AREAS SHOWN ON THIS PLAN SHALL BE CLEARLY DELINEATED IN THE FIELD. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE IS PERMITTED BEYOND THE CLEARING LIMITS. THE CONTRACTOR MUST MAINTAIN THE DELINEATION FOR THE DURATION OF THE PROJECT. NOTE: VEGETATED CORRIDORS TO BE DELINEATED WITH ORANGE CONSTRUCTION FENCE OR APPROVED EQUAL.
- 18. PRIOR TO ANY LAND DISTURBING ACTIVITIES, THE BMP'S THAT MUST BE INSTALLED ARE A GRAVEL CONSTRUCTION ENTRANCE, PERIMETER SEDIMENT CONTROL, AND INLET PROTECTION AS SPECIFIED. THESE BMP'S MUST BE MAINTAINED FOR THE DURATION OF THE PROJECT.
- 19. IF VEGETATIVE SEED MIXES ARE SPECIFIED, SEEDING MUST TAKE PLACE NO LATER THAT SEPTEMBER 1; THE TYPE AND PERCENTAGES OF SEED IN THE MIX MUST BE IDENTIFIED ON THE PLANS WITH AN ESTABLISHED HEALTHY STAND OF GRASS OF 80% COVERAGE BY OCTOBER 1ST.
- 20. ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE DISCHARGED OVER AN UNDISTURBED, PREFERABLY VEGETATED AREA, AND THROUGH A SEDIMENT CONTROL BMP i.e. (FILTER BAG).
- 21. THE ESC PLAN MUST BE KEPT ON SITE. ALL MEASURES SHOWN ON THE PLAN MUST BE INSTALLED PROPERLY TO ENSURE THAT SEDIMENT OR SEDIMENT LADEN WATER DOES NOT ENTER A SURFACE WATER SYSTEM, ROADWAY, OR OTHER PROPERTIES.

# PRE-CONSTRUCTION, CLEARING AND DEMOLITION NOTES:

- 1. ALL BASE ESC MEASURES MUST BE IN PLACE, FUNCTIONAL, AND APPROVED IN AN INITIAL INSPECTION, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
- 2. SEDIMENT BARRIERS APPROVED FOR USE INCLUDE (LIST APPROVED BARRIERS).
- 3. SENSITIVE RESOURCES INCLUDING, BUT NOT LIMITED TO, TREES, WETLANDS, AND RIPARIAN PROTECTION AREAS SHALL BE CLEARLY DELINEATED WITH ORANGE CONSTRUCTION FENCING OR CHAIN LINK FENCING IN A MANNER THAT IS CLEARLY VISIBLE TO ANYONE I THE AREA. NO ACTIVITIES ARE PERMITTED TO OCCUR BEYOND THE CONSTRUCTION BARRIER.
- 4. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES INCLUDING, BUT NOT LIMITED TO, (LIST APPROVED MEASURES), MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- 5. RUN-ON AND RUN-OFF CONTROLS SHALL BE IN PLACE AND FUNCTIONING PRIOR TO BEGINNING SUBSTANTIAL CONSTRUCTION ACTIVITIES. RUN-ON AND RUN-OFF CONTROL MEASURES INCLUDE: (LIST CONTROL MEASURES).
- 6. ITEMS NOTED FOR REMOVAL OR DEMOLITION TO BE DISPOSED OF IN A MANNER THAT MEETS APPLICABLE STATE AND FEDERAL REGULATIONS.
- 7. INSTALLATION AND APPROVAL OF ALL TREE PROTECTION AND ESC MEASURES ARE NEEDED BEFORE CONSTRUCTION BEGINS.
- 8. UNDERGROUND AND OVERHEAD POWER LINES AND FRANCHISE UTILITIES ARE LOCATED WITHIN RIGHT-OF-WAY ADJACENT TO THE PROJECT SITE. COORDINATE WORK WITH THE UTILITY COMPANY.

# TREE REMOVAL AND PRESERVATION NOTES:

- 1. CONTRACTOR SHALL INSTALL 6' HIGH CHAIN LINK TREE PROTECTION FENCING AROUND ALL TREES TO REMAIN ON SITE DURING CONSTRUCTION. FENCING SHALL BE PLACED AT THE TREE DRIP LINE. COORDINATE TREE PROTECTION FENCING LOCATION WITH PROJECT ARBORIST.
- 2. INSTALLATION AND APPROVAL OF ALL TREE PROTECTION AND ESC MEASURES ARE NEEDED BEFORE CONSTRUCTION BEGINS.
- 3. TREE REMOVAL OPERATIONS SHALL NOT DAMAGE TREES TO BE SAVED.
- 4. ALL DEMOLITION AND TREE REMOVAL WITHIN THE TREE PROTECTION FENCING SHALL BE COMPLETED UNDER THE SUPERVISION OF THE PROJECT ARBORIST. NO REMOVAL OF ANY STRUCTURES OR TREES SHALL BE PERFORMED WITHOUT THE PROJECT ARBORIST ON SITE.

# GRADING, STREET, AND UTILITY ESC CONSTRUCTION NOTES:

- 1. SEED USE FOR TEMPORARY OR PERMANENT SEEDING SHALL BE COMPOSED OF ONE OF THE FOLLOWING MIXTURES, UNLESS OTHERWISE AUTHORIZED:
  - A. VEGETATED CORRIDOR AREAS REQUIRE NATIVE SEED MIXES.
  - B. DWARF GRASS MIX (MIN 100 LB/AC)
    - 1. DWARF PERENNIAL RYEGRASS (80% BY WEIGHT)
    - 2. CREEPING RED FESCUE (20% BY WEIGHT)
  - C. STANDARD HEIGHT GRASS MIX (MIN 100 LB/AC)
    - 1. ANNUAL RYEGRASS (40% BY WEIGHT)
    - 2. TURF-TYPE FESCUE (60% BY WEIGHT)
- 2. SLOPE TO RECEIVE TEMPORARY OR PERMANENT SEEDING SHALL HAVE THE SURFACE ROUGHENED BY MEANS OF TRACK-WALKING OR THE USE OF OTHER APPROVED IMPLEMENTS. SURFACE ROUGHENING IMPROVES SEED BEDDING AND REDUCES RUN-OFF VELOCITY.
- 3. LONG TERM SLOPE STABILIZATION MEASURES SHALL INCLUDE THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER VIA HYDROSEEDING TO 2000 LBS/ACRES WITH AN ADDED TACKIFIER.
- 4. TEMPORARY SLOPE STABILIZATION MEASURES SHALL INCLUDE: COVERING EXPOSED SOIL WITH PLASTIC SHEETING, STRAW MULCHING, WOOD CHIPS, OR OTHER APPROVED MEASURES.
- 5. STOCKPILED SOIL OR STRIPPINGS SHALL BE PLACED IN A STABLE LOCATION AND CONFIGURATION. STOCKPILES SHALL BE COVERED WITH PLASTIC SHEETING OR STRAW MULCH. SEDIMENT FENCE IS REQUIRED AROUND THE PERIMETER OF THE STOCKPILE.
- 6. EXPOSED CUT OR FILL AREAS SHALL BE STABILIZED THROUGH THE USE OF TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS OR MATS, MID-SLOPE SEDIMENT FENCES OR WATTLEES, OR OTHER APPROPRIATE MEASURES. SLOPES EXCEEDING 25% MAY REQUIRE ADDITIONAL EROSION CONTROL MEASURES.
- 7. AREAS SUBJECT TO WIND EROSION SHALL USE APPROPRIATE DUST CONTROL MEASURES INCLUDING THE APPLICATION OF A FINE SPRAY OF WATER, PLASTIC SHEETING, STRAW MULCHING, OR OTHER APPROVED MEASURES.
- 8. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES INCLUDING, BUT NOT LIMITED TO, TIRE WASHES, STREET SWEEPING, AND VACUUMING MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- 9. ACTIVE INLETS TO STORM WATER SYSTEMS SHALL BE PROTECTED THROUGH THE USE OF APPROVED INLET PROTECTION MEASURES. ALL INLET PROTECTION MEASURES ARE TO BE REGULARLY INSPECTED AND MAINTAINED AS NEEDED.
- 10. SATURATED MATERIALS THAT ARE HAULED OFF-SITE MUST BE TRANSPORTED IN WATER-TIGHT TRUCKS TO ELIMINATE SPILLAGE OF SEDIMENT AND SEDIMENT-LADEN WATER.
- 11. AN AREA SHALL BE PROVIDED FOR THE WASHING OUT OF CONCRETE TRUCKS IN A LOCATION THAT DOES NOT PROVIDE RUN-OFF THAT CAN ENTER THE STORM WATER SYSTEM. IF THE CONCRETE WASH-OUT AREA CAN NOT BE CONSTRUCTED GREATER THAN 50 FEET FROM ANY DISCHARGE POINT, SECONDARY MEASURES SUCH AS BERMS OR TEMPORARY SETTLING PITS MAY BE REQUIRED. THE WASH-OUT SHALL BE LOCATED WITHIN SIX FEET OF TRUCK ACCESS AND BE CLEANED WHEN IT REACHES 50% OF CAPACITY.
- 12. SWEEPING FROM EXPOSED AGGREGATE CONCRETE SHALL NOT BE TRANSFERRED TO THE STORM WATER SYSTEM. SWEEPINGS SHALL BE PICKED UP AND DISPOSED IN THE TRASH.
- 13. AVOID PAVING IN WET WEATHER WHEN PAVING CHEMICALS CAN RUN-OFF INTO THE STORM WATER SYSTEM.
- 14. USE BMPs SUCH AS CHECK-DAMS, BERMS, AND INLET PROTECTION TO PREVENT RUN-OFF FROM REACHING DISCHARGE POINTS.
- 15. COVER CATCH BASINS, MANHOLES, AND OTHER DISCHARGE POINTS WHEN APPLYING SEAL COAT, TACK COAT, ETC. TO PREVENT INTRODUCING THESE MATERIALS TO THE STORM WATER SYSTEM.
- 16. CONTRACTOR TO PROTECT UICs AND DRYWELLS DURING CONSTRUCTION TO PREVENT SEDIMENT FROM ENTERING STRUCTURES.
- 17. AFTER OCTOBER 1ST, COVER AREAS AT FINAL GRADE WITH SEED/STRAW MULCH AT 4000 LBS/ACRE.

			TAP	3/11/2022
			DESIGNED	DATE
			JRN	9/13/2024
			DRAFTED	DATE
			JAG	9/16/2024
			CHECKED	DATE
			APPROVED	DATE
NO.	DATE	BY	REVISIONS	

REGISTERED PROFESSIONAL ENGINEER 80169PE  
Jennifer Jankel  
OREGON  
SEPT 11 2007  
JANUARY ANN CARRILLO  
EXPIRES: 06/30/2025

 CITY OF MILWAUKIE  
10501 SE MAIN STREET  
MILWAUKIE, OR 97222  
PHONE: 503-786-7600  
FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**  
EROSION & SEDIMENT CONTROL NOTES

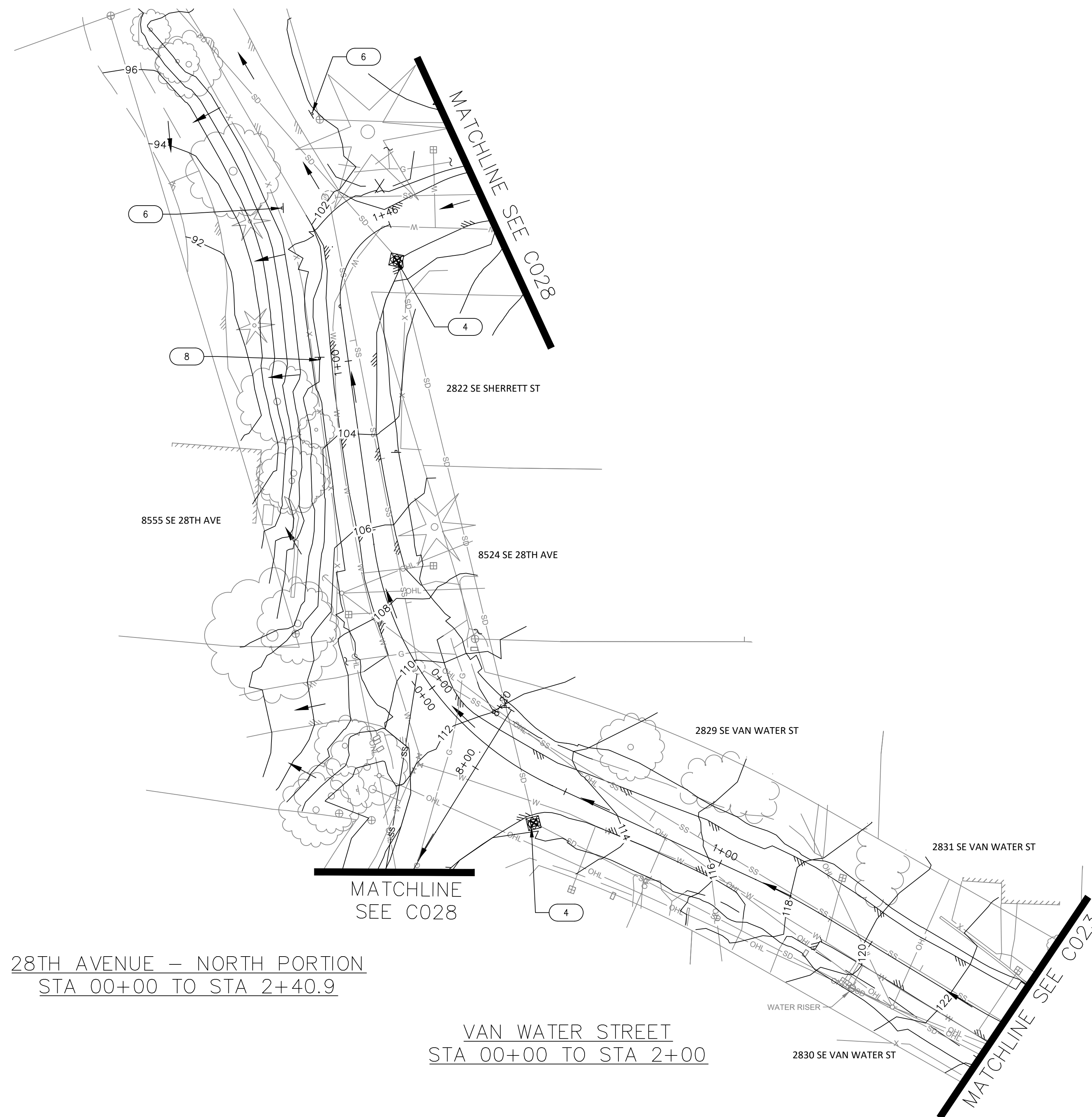
PROJECT NO.:	W61	SHEET NO.:	14 OF 93	DATE:	9/13/2024	SHEET:	C021
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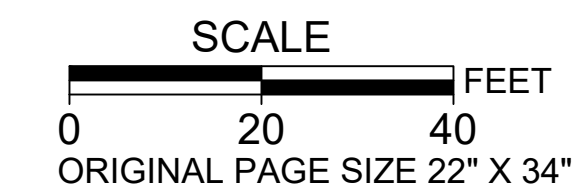
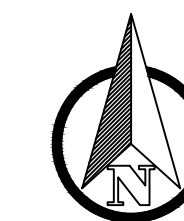
28TH AVENUE – NORTH PORTION  
 STA 00+00 TO STA 2+40.9

VAN WATER STREET  
 STA 00+00 TO STA 2+00

- DEMOLITION AND EROSION CONTROL KEY NOTES**
- 1 PROTECT EXISTING CURB AND/OR SIDEWALK.
  - 2 REMOVE EXISTING CURB.
  - 3 REMOVE EXISTING SIDEWALK.
  - 4 REMOVE EXISTING CATCH BASIN. SEE STORM SHEETS C200 TO C206.
  - 5 PRUNE VEGETATION AS NEEDED FOR CONSTRUCTION.
  - 6 PROTECT VALVE CAN / METER BOX / CATCH BASIN / SIGN POST.
  - 7 REMOVE EXISTING SIGN. SEE SIGNAGE AND STRIPING SHEETS C550 TO C553.
  - 8 RELOCATE EXISTING SIGN. SEE SIGNAGE AND STRIPING SHEETS C550 TO C553.
  - 9 ABANDON EXISTING PIPE. CAP OR PLUG ALL ENDS. SEE DETAIL 4, SHEET 404.
  - 10 CAP AND ABANDON EXISTING WATER MAIN IN-PLACE UPON COMPLETION AND ACTIVATION OF NEW WATER MAIN. REMOVE EXISTING WATER MAIN AS REQUIRED FOR CONSTRUCTION. SEE DETAIL 4, SHEET C404.
  - 11 DECOMMISSION EXISTING WATER VALVE BY CUTTING MAIN TO REMOVE VALVE AND CAP EACH SIDE. REMOVE VALVE BOX AND EXTENSION. SEE DETAIL 5, SHEET C404.

- DEMOLITION AND EROSION CONTROL LEGEND**
- [Symbol] AREA OF SOIL DISTURBANCE
  - [Symbol] INLET PROTECTION
  - [Symbol] DRAINAGE FLOW DIRECTION ARROW
  - [Symbol] TREE PROTECTION FENCE
  - [Symbol] REMOVE EXISTING STORM LINE
  - [Symbol] REMOVE EXISTING WATERLINE

- DEMOLITION AND EROSION CONTROL NOTES:**
1. ADJUST EROSION CONTROL BMP AS NECESSARY DURING REMOVAL AND INSTALLATION OF CATCH BASINS.
  2. ALL EXISTING VEGETATION IS TO REMAIN BUT PRUNING MAY BE REQUIRED TO ALLOW SPACE FOR CONSTRUCTION AND CONSTRUCTION EQUIPMENT.



NO.	DATE	BY	REVISIONS

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JRN DRAFTED	9/13/2024	DATE
JAG CHECKED	9/16/2024	DATE
APPROVED		DATE



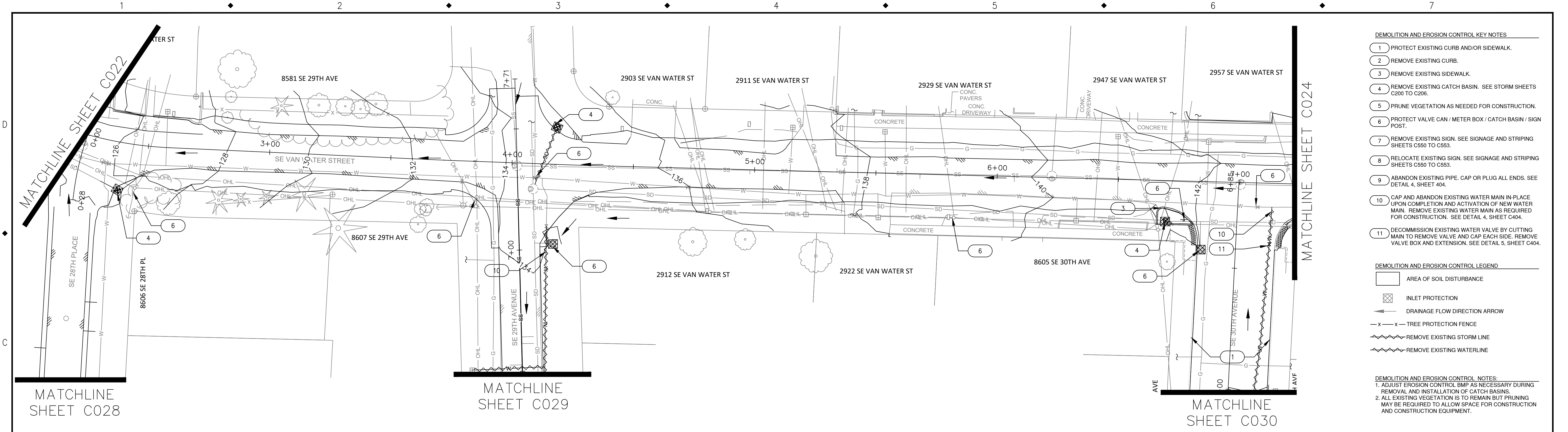
**CITY OF MILWAUKIE**

10501 SE MAIN STREET  
 MILWAUKIE, OR 97222  
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**ARDENWALD NORTH IMPROVEMENTS**

**28TH AVE & VAN WATER ST DEMOLITION & EROSION CONTROL**

PROJECT NO.:	W61	SHEET NO.:	15 OF 93	DATE:	9/13/2024	SHEET:	C022
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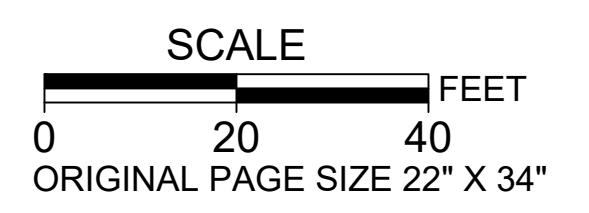
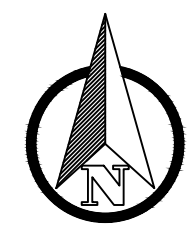


- DEMOLITION AND EROSION CONTROL KEY NOTES**
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  - 2 REMOVE EXISTING CURB.
  - 3 REMOVE EXISTING SIDEWALK.
  - 4 REMOVE EXISTING CATCH BASIN. SEE STORM SHEETS C200 TO C206.
  - 5 PRUNE VEGETATION AS NEEDED FOR CONSTRUCTION.
  - 6 PROTECT VALVE CAN / METER BOX / CATCH BASIN / SIGN POST.
  - 7 REMOVE EXISTING SIGN. SEE SIGNAGE AND STRIPING SHEETS C550 TO C553.
  - 8 RELOCATE EXISTING SIGN. SEE SIGNAGE AND STRIPING SHEETS C550 TO C553.
  - 9 ABANDON EXISTING PIPE. CAP OR PLUG ALL ENDS. SEE DETAIL 4, SHEET 404.
  - 10 CAP AND ABANDON EXISTING WATER MAIN IN-PLACE UPON COMPLETION AND ACTIVATION OF NEW WATER MAIN. REMOVE EXISTING WATER MAIN AS REQUIRED FOR CONSTRUCTION. SEE DETAIL 4, SHEET C404.
  - 11 DECOMMISSION EXISTING WATER VALVE BY CUTTING MAIN TO REMOVE VALVE AND CAP EACH SIDE. REMOVE VALVE BOX AND EXTENSION. SEE DETAIL 5, SHEET C404.

- DEMOLITION AND EROSION CONTROL LEGEND**
- AREA OF SOIL DISTURBANCE
  - INLET PROTECTION
  - DRAINAGE FLOW DIRECTION ARROW
  - TREE PROTECTION FENCE
  - REMOVE EXISTING STORM LINE
  - REMOVE EXISTING WATERLINE

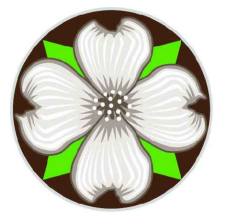
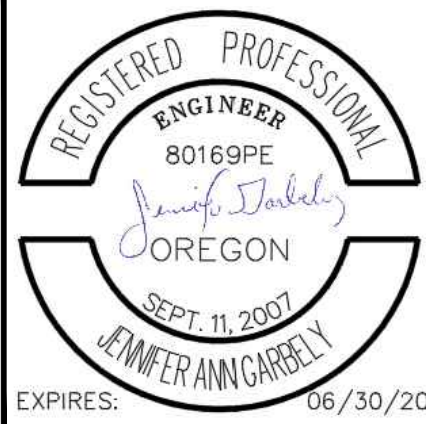
- DEMOLITION AND EROSION CONTROL NOTES:**
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  2. ALL EXISTING VEGETATION IS TO REMAIN BUT PRUNING MAY BE REQUIRED TO ALLOW SPACE FOR CONSTRUCTION AND CONSTRUCTION EQUIPMENT.

VAN WATER STREET  
STA 2+00 TO STA 7+00



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**CITY OF MILWAUKIE**

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**ARDENWALD NORTH IMPROVEMENTS**

**VAN WATER ST DEMOLITION & EROSION CONTROL**

STA 2+00 TO STA 7+00

PROJECT NO.:	W61	SHEET NO.:	16 OF 93	DATE:	9/13/2024	SHEET:	C023
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MATCHLINE SHEET C023

MATCHLINE SHEET C030

VAN WATER STREET  
STA 7+00 TO STA 11+65

DEMOLITION AND EROSION CONTROL KEY NOTES

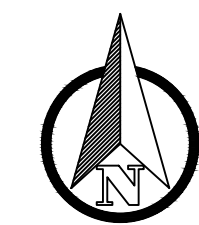
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- 4 REMOVE EXISTING CATCH BASIN. SEE STORM SHEETS C200 TO C206.
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- 6 PROTECT VALVE CAN / METER BOX / CATCH BASIN / SIGN POST.
- 7 REMOVE EXISTING SIGN. SEE SIGNAGE AND STRIPING SHEETS C550 TO C553.
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DEMOLITION AND EROSION CONTROL LEGEND

- AREA OF SOIL DISTURBANCE
- INLET PROTECTION
- DRAINAGE FLOW DIRECTION ARROW
- TREE PROTECTION FENCE
- REMOVE EXISTING STORM LINE
- REMOVE EXISTING WATERLINE

DEMOLITION AND EROSION CONTROL NOTES:

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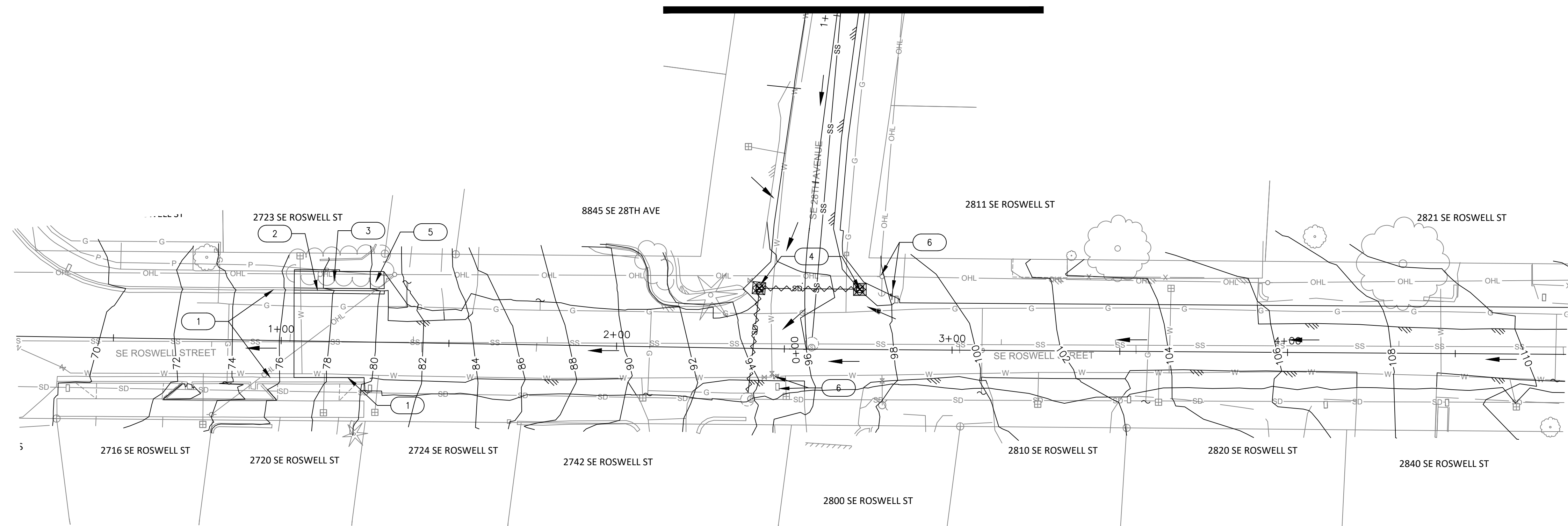
**ARDENWALD NORTH IMPROVEMENTS**

VAN WATER ST DEMOLITION & EROSION CONTROL

STA 7+00 TO 11+65

PROJECT NO.: W61    SHEET NO.: 17 OF 93    DATE: 9/13/2024    SHEET: C024

MATCHLINE SHEET C028



ROSWELL STREET  
STA 0+00 TO STA 4+50

MATCHLINE SHEET C026

DEMOLITION AND EROSION CONTROL KEY NOTES

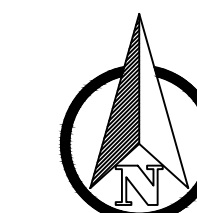
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DEMOLITION AND EROSION CONTROL LEGEND

- AREA OF SOIL DISTURBANCE
- INLET PROTECTION
- DRAINAGE FLOW DIRECTION ARROW
- TREE PROTECTION FENCE
- REMOVE EXISTING STORM LINE
- REMOVE EXISTING WATERLINE

DEMOLITION AND EROSION CONTROL NOTES

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 ORIGINAL PAGE SIZE 22" X 34"

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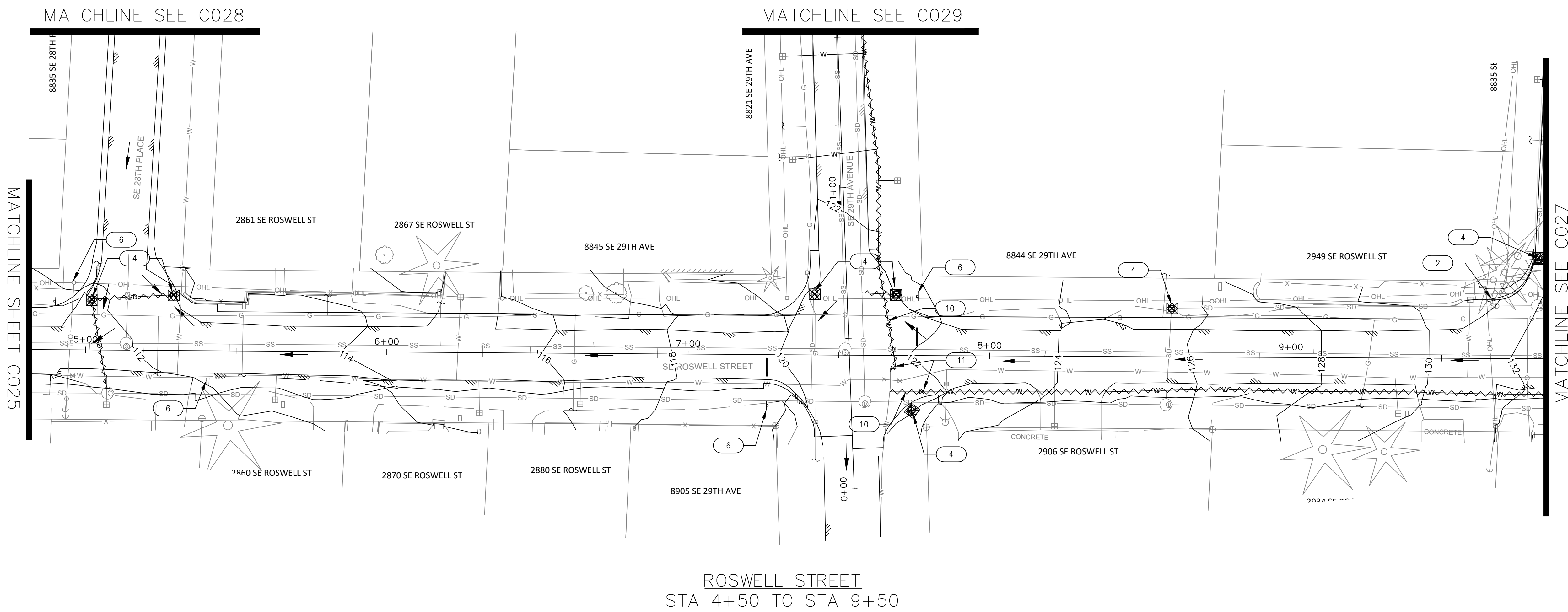
**CITY OF MILWAUKIE**  
 10501 SE MAIN STREET  
 MILWAUKIE, OR 97222  
 PHONE: 503-786-7600  
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**ARDENWALD NORTH IMPROVEMENTS**

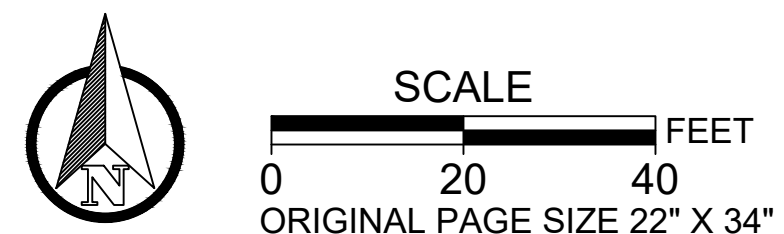
ROSWELL ST DEMOLITION & EROSION CONTROL  
 STA 0+00 TO STA 4+50

PROJECT NO.:	W61	SHEET NO.:	18 OF 93	DATE:	9/13/2024	SHEET:	C025
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C  
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- DEMOLITION AND EROSION CONTROL KEY NOTES**
- 1 PROTECT EXISTING CURB AND/OR SIDEWALK.
  - 2 REMOVE EXISTING CURB.
  - 3 REMOVE EXISTING SIDEWALK.
  - 4 REMOVE EXISTING CATCH BASIN. SEE STORM SHEETS C200 TO C206.
  - 5 PRUNE VEGETATION AS NEEDED FOR CONSTRUCTION.
  - 6 PROTECT VALVE CAN / METER BOX / CATCH BASIN / SIGN POST.
  - 7 REMOVE EXISTING SIGN. SEE SIGNAGE AND STRIPING SHEETS C550 TO C553.
  - 8 RELOCATE EXISTING SIGN. SEE SIGNAGE AND STRIPING SHEETS C550 TO C553.
  - 9 ABANDON EXISTING PIPE. CAP OR PLUG ALL ENDS. SEE DETAIL 4, SHEET 404.
  - 10 CAP AND ABANDON EXISTING WATER MAIN IN-PLACE UPON COMPLETION AND ACTIVATION OF NEW WATER MAIN. REMOVE EXISTING WATER MAIN AS REQUIRED FOR CONSTRUCTION. SEE DETAIL 4, SHEET C404.
  - 11 DECOMMISSION EXISTING WATER VALVE BY CUTTING MAIN TO REMOVE VALVE AND CAP EACH SIDE. REMOVE VALVE BOX AND EXTENSION. SEE DETAIL 5, SHEET C404.
- DEMOLITION AND EROSION CONTROL LEGEND**
- [Symbol] AREA OF SOIL DISTURBANCE
  - [Symbol] INLET PROTECTION
  - [Symbol] DRAINAGE FLOW DIRECTION ARROW
  - [Symbol] TREE PROTECTION FENCE
  - [Symbol] REMOVE EXISTING STORM LINE
  - [Symbol] REMOVE EXISTING WATERLINE
- DEMOLITION AND EROSION CONTROL NOTES:**
1. ADJUST EROSION CONTROL BMP AS NECESSARY DURING REMOVAL AND INSTALLATION OF CATCH BASINS.
  2. ALL EXISTING VEGETATION IS TO REMAIN BUT PRUNING MAY BE REQUIRED TO ALLOW SPACE FOR CONSTRUCTION AND CONSTRUCTION EQUIPMENT.



NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
JRN DRAFTED	9/13/2024	DATE
JAG CHECKED	9/16/2024	DATE
APPROVED		DATE



**CITY OF MILWAUKIE**

10501 SE MAIN STREET  
MILWAUKIE, OR 97222

PHONE: 503-786-7600  
FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**

**ROSWELL ST DEMOLITION & EROSION CONTROL**

STA 4+50 TO STA 9+50

PROJECT NO.:	W61	SHEET NO.:	19 OF 93	DATE:	9/13/2024	SHEET:	C026
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DEMOLITION AND EROSION CONTROL KEY NOTES

- 1 PROTECT EXISTING CURB AND/OR SIDEWALK.
- 2 REMOVE EXISTING CURB.
- 3 REMOVE EXISTING SIDEWALK.
- 4 REMOVE EXISTING CATCH BASIN. SEE STORM SHEETS C200 TO C206.
- 5 PRUNE VEGETATION AS NEEDED FOR CONSTRUCTION.
- 6 PROTECT VALVE CAN / METER BOX / CATCH BASIN / SIGN POST.
- 7 REMOVE EXISTING SIGN. SEE SIGNAGE AND STRIPING SHEETS C550 TO C553.
- 8 RELOCATE EXISTING SIGN. SEE SIGNAGE AND STRIPING SHEETS C550 TO C553.
- 9 ABANDON EXISTING PIPE. CAP OR PLUG ALL ENDS. SEE DETAIL 4, SHEET 404.
- 10 CAP AND ABANDON EXISTING WATER MAIN IN-PLACE UPON COMPLETION AND ACTIVATION OF NEW WATER MAIN. REMOVE EXISTING WATER MAIN AS REQUIRED FOR CONSTRUCTION. SEE DETAIL 4, SHEET C404.
- 11 DECOMMISSION EXISTING WATER VALVE BY CUTTING MAIN TO REMOVE VALVE AND CAP EACH SIDE. REMOVE VALVE BOX AND EXTENSION. SEE DETAIL 5, SHEET C404.

DEMOLITION AND EROSION CONTROL LEGEND

- [Symbol] AREA OF SOIL DISTURBANCE
- [Symbol] INLET PROTECTION
- [Symbol] DRAINAGE FLOW DIRECTION ARROW
- x-x- TREE PROTECTION FENCE
- [Symbol] REMOVE EXISTING STORM LINE
- [Symbol] REMOVE EXISTING WATERLINE

DEMOLITION AND EROSION CONTROL NOTES:

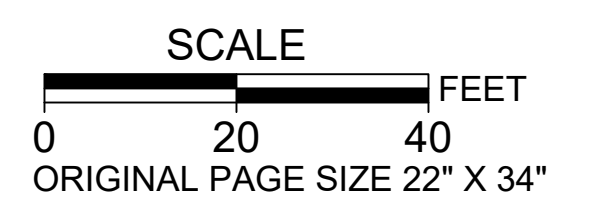
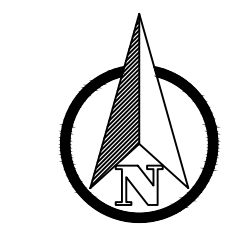
- 1. ADJUST EROSION CONTROL BMP AS NECESSARY DURING REMOVAL AND INSTALLATION OF CATCH BASINS.
- 2. ALL EXISTING VEGETATION IS TO REMAIN BUT PRUNING MAY BE REQUIRED TO ALLOW SPACE FOR CONSTRUCTION AND CONSTRUCTION EQUIPMENT.

MATCHLINE SHEET C030

MATCHLINE SHEET C030

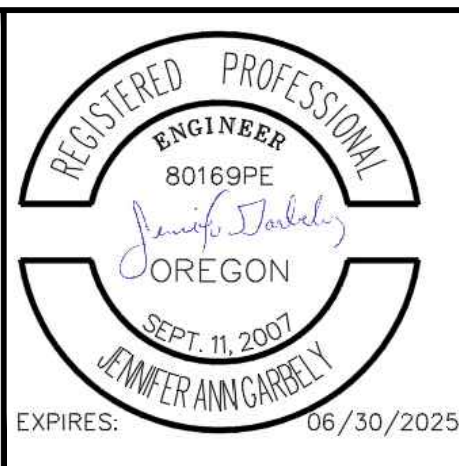
MATCHLINE SHEET C026

ROSWELL STREET  
STA 9+50 TO STA 14+50



NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
JRN DRAFTED	9/13/2024	DATE
JAG CHECKED	9/16/2024	DATE
APPROVED		DATE



**CITY OF MILWAUKIE**

10501 SE MAIN STREET  
MILWAUKIE, OR 97222

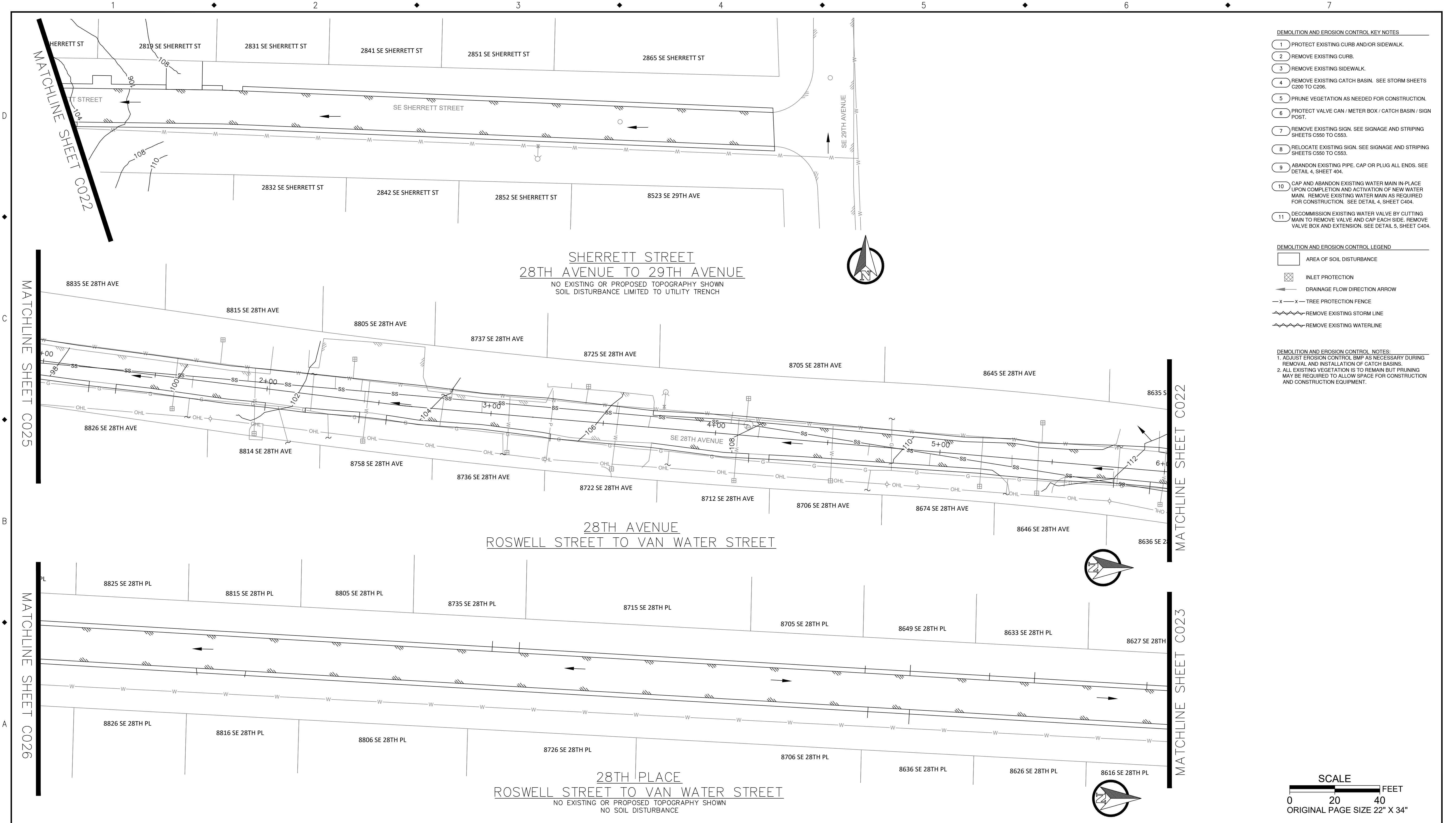
PHONE: 503-786-7600  
FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**

ROSWELL ST DEMOLITION & EROSION CONTROL

STA 9+50 TO STA 14+50

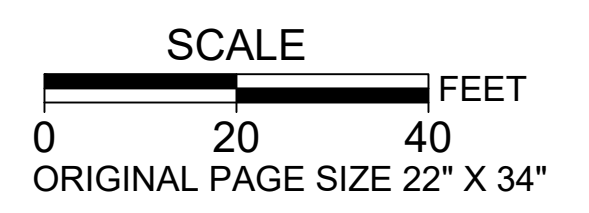
PROJECT NO.:	W61	SHEET NO.:	20 OF 93	DATE:	9/13/2024	SHEET:	C027
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- DEMOLITION AND EROSION CONTROL KEY NOTES**
- 1 PROTECT EXISTING CURB AND/OR SIDEWALK.
  - 2 REMOVE EXISTING CURB.
  - 3 REMOVE EXISTING SIDEWALK.
  - 4 REMOVE EXISTING CATCH BASIN. SEE STORM SHEETS C200 TO C206.
  - 5 PRUNE VEGETATION AS NEEDED FOR CONSTRUCTION.
  - 6 PROTECT VALVE CAN / METER BOX / CATCH BASIN / SIGN POST.
  - 7 REMOVE EXISTING SIGN. SEE SIGNAGE AND STRIPING SHEETS C550 TO C553.
  - 8 RELOCATE EXISTING SIGN. SEE SIGNAGE AND STRIPING SHEETS C550 TO C553.
  - 9 ABANDON EXISTING PIPE. CAP OR PLUG ALL ENDS. SEE DETAIL 4, SHEET 404.
  - 10 CAP AND ABANDON EXISTING WATER MAIN IN-PLACE UPON COMPLETION AND ACTIVATION OF NEW WATER MAIN. REMOVE EXISTING WATER MAIN AS REQUIRED FOR CONSTRUCTION. SEE DETAIL 4, SHEET C404.
  - 11 DECOMMISSION EXISTING WATER VALVE BY CUTTING MAIN TO REMOVE VALVE AND CAP EACH SIDE. REMOVE VALVE BOX AND EXTENSION. SEE DETAIL 5, SHEET C404.

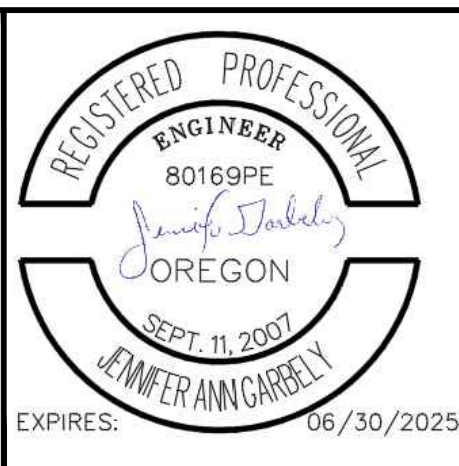
- DEMOLITION AND EROSION CONTROL LEGEND**
- [Symbol] AREA OF SOIL DISTURBANCE
  - [Symbol] INLET PROTECTION
  - [Symbol] DRAINAGE FLOW DIRECTION ARROW
  - [Symbol] TREE PROTECTION FENCE
  - [Symbol] REMOVE EXISTING STORM LINE
  - [Symbol] REMOVE EXISTING WATERLINE

- DEMOLITION AND EROSION CONTROL NOTES:**
1. ADJUST EROSION CONTROL BMP AS NECESSARY DURING REMOVAL AND INSTALLATION OF CATCH BASINS.
  2. ALL EXISTING VEGETATION IS TO REMAIN BUT PRUNING MAY BE REQUIRED TO ALLOW SPACE FOR CONSTRUCTION AND CONSTRUCTION EQUIPMENT.



NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
JRN DRAFTED	9/13/2024	DATE
JAG CHECKED	9/16/2024	DATE
APPROVED		DATE



**CITY OF MILWAUKIE**

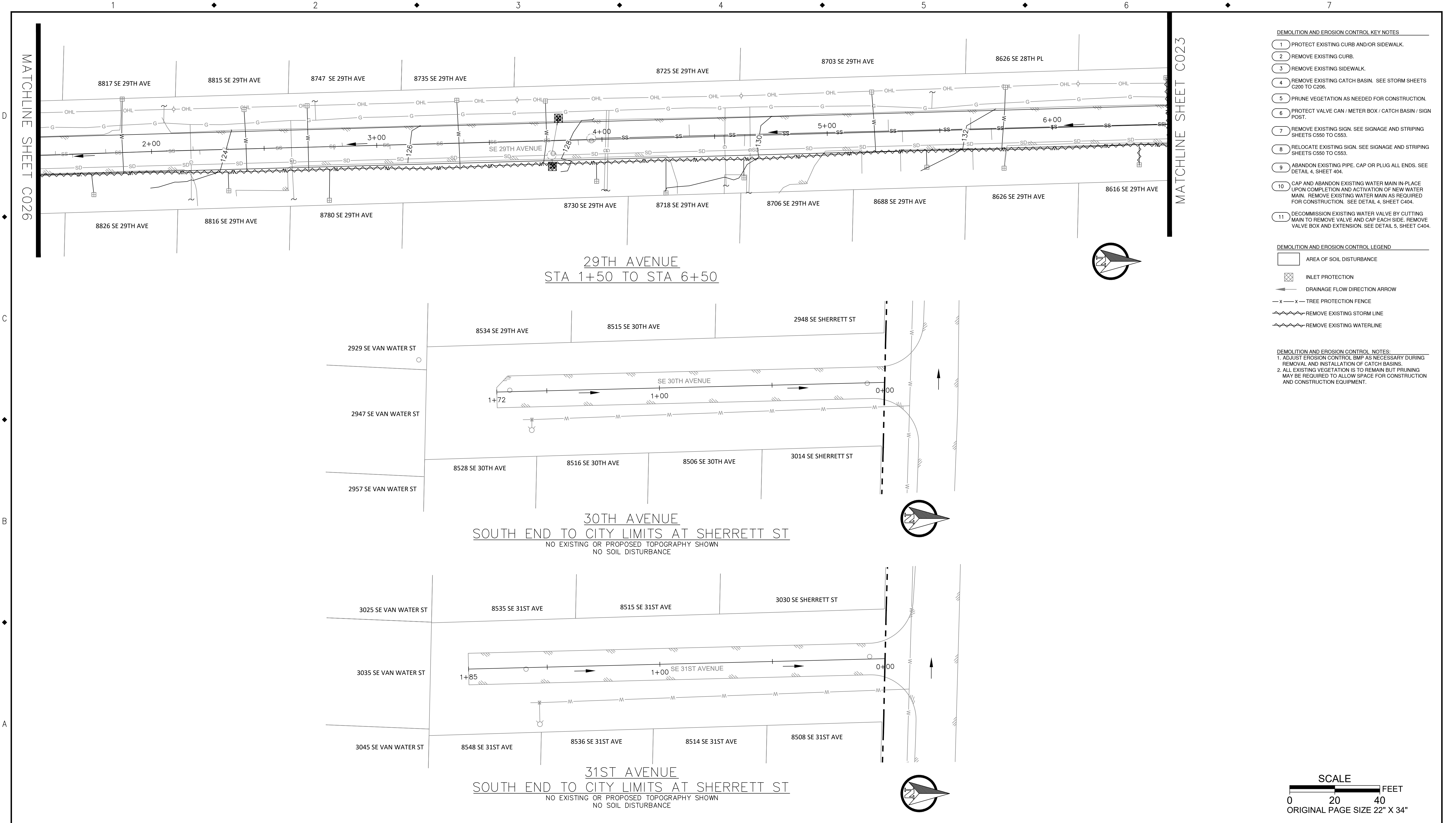
10501 SE MAIN STREET  
MILWAUKIE, OR 97222

PHONE: 503-786-7600  
FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**

SHERRETT ST, 28TH AVE & 28TH PL DEMOLITION & EROSION CONTROL

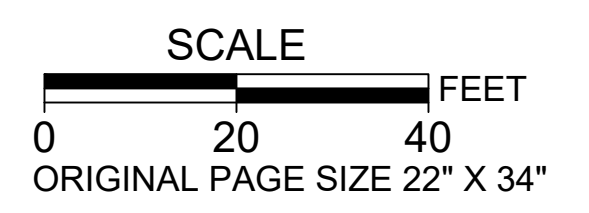
PROJECT NO.:	W61	SHEET NO.:	21 OF 93	DATE:	9/13/2024	SHEET:	C028
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- DEMOLITION AND EROSION CONTROL KEY NOTES**
- 1 PROTECT EXISTING CURB AND/OR SIDEWALK.
  - 2 REMOVE EXISTING CURB.
  - 3 REMOVE EXISTING SIDEWALK.
  - 4 REMOVE EXISTING CATCH BASIN. SEE STORM SHEETS C200 TO C206.
  - 5 PRUNE VEGETATION AS NEEDED FOR CONSTRUCTION.
  - 6 PROTECT VALVE CAN / METER BOX / CATCH BASIN / SIGN POST.
  - 7 REMOVE EXISTING SIGN. SEE SIGNAGE AND STRIPING SHEETS C550 TO C553.
  - 8 RELOCATE EXISTING SIGN. SEE SIGNAGE AND STRIPING SHEETS C550 TO C553.
  - 9 ABANDON EXISTING PIPE. CAP OR PLUG ALL ENDS. SEE DETAIL 4, SHEET 404.
  - 10 CAP AND ABANDON EXISTING WATER MAIN IN-PLACE UPON COMPLETION AND ACTIVATION OF NEW WATER MAIN. REMOVE EXISTING WATER MAIN AS REQUIRED FOR CONSTRUCTION. SEE DETAIL 4, SHEET C404.
  - 11 DECOMMISSION EXISTING WATER VALVE BY CUTTING MAIN TO REMOVE VALVE AND CAP EACH SIDE. REMOVE VALVE BOX AND EXTENSION. SEE DETAIL 5, SHEET C404.

- DEMOLITION AND EROSION CONTROL LEGEND**
- AREA OF SOIL DISTURBANCE
  - INLET PROTECTION
  - DRAINAGE FLOW DIRECTION ARROW
  - TREE PROTECTION FENCE
  - REMOVE EXISTING STORM LINE
  - REMOVE EXISTING WATERLINE

- DEMOLITION AND EROSION CONTROL NOTES:**
1. ADJUST EROSION CONTROL BMP AS NECESSARY DURING REMOVAL AND INSTALLATION OF CATCH BASINS.
  2. ALL EXISTING VEGETATION IS TO REMAIN BUT PRUNING MAY BE REQUIRED TO ALLOW SPACE FOR CONSTRUCTION AND CONSTRUCTION EQUIPMENT.



NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
JRN DRAFTED	9/13/2024	DATE
JAG CHECKED	9/16/2024	DATE
APPROVED		DATE



**CITY OF MILWAUKIE**

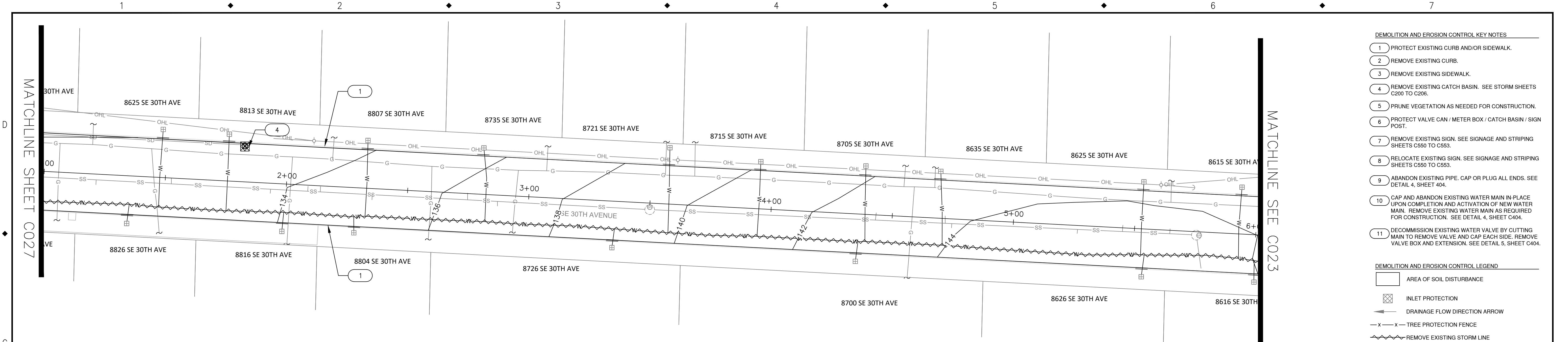
10501 SE MAIN STREET  
MILWAUKIE, OR 97222

PHONE: 503-786-7600  
FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**

29TH AVENUE, 30TH AVENUE & 31ST AVENUE DEMOLITION & EROSION CONTROL

PROJECT NO.:	W61	SHEET NO.:	22 OF 93	DATE:	9/13/2024	SHEET:	C029
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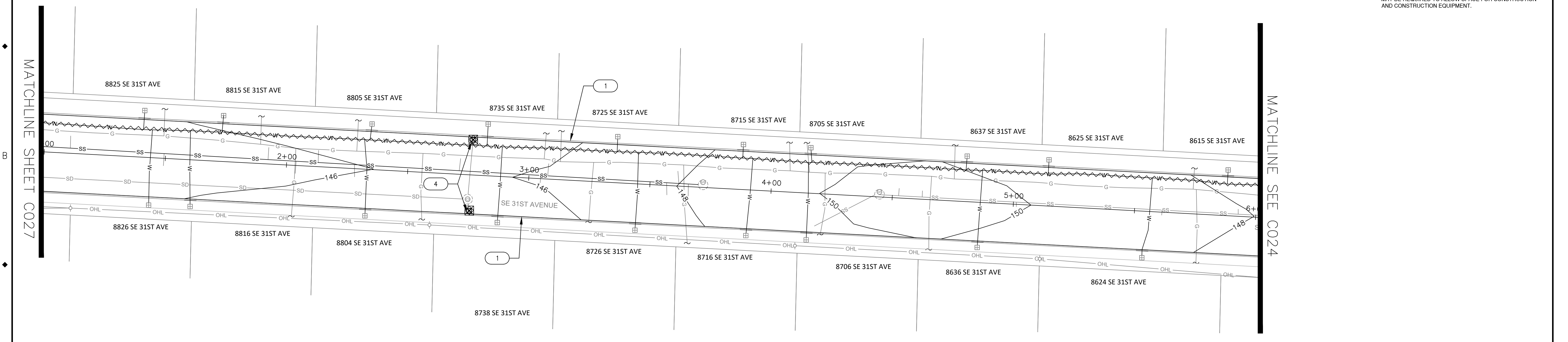


30TH AVENUE  
STA 1+00 TO STA 6+00

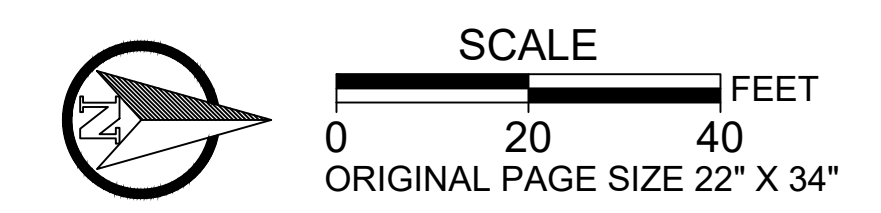
- DEMOLITION AND EROSION CONTROL KEY NOTES**
- 1 PROTECT EXISTING CURB AND/OR SIDEWALK.
  - 2 REMOVE EXISTING CURB.
  - 3 REMOVE EXISTING SIDEWALK.
  - 4 REMOVE EXISTING CATCH BASIN. SEE STORM SHEETS C200 TO C206.
  - 5 PRUNE VEGETATION AS NEEDED FOR CONSTRUCTION.
  - 6 PROTECT VALVE CAN / METER BOX / CATCH BASIN / SIGN POST.
  - 7 REMOVE EXISTING SIGN. SEE SIGNAGE AND STRIPING SHEETS C550 TO C553.
  - 8 RELOCATE EXISTING SIGN. SEE SIGNAGE AND STRIPING SHEETS C550 TO C553.
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  - 11 DECOMMISSION EXISTING WATER VALVE BY CUTTING MAIN TO REMOVE VALVE AND CAP EACH SIDE. REMOVE VALVE BOX AND EXTENSION. SEE DETAIL 5, SHEET C404.

- DEMOLITION AND EROSION CONTROL LEGEND**
- AREA OF SOIL DISTURBANCE
  - INLET PROTECTION
  - DRAINAGE FLOW DIRECTION ARROW
  - TREE PROTECTION FENCE
  - REMOVE EXISTING STORM LINE
  - REMOVE EXISTING WATERLINE

- DEMOLITION AND EROSION CONTROL NOTES:**
1. ADJUST EROSION CONTROL BMP AS NECESSARY DURING REMOVAL AND INSTALLATION OF CATCH BASINS.
  2. ALL EXISTING VEGETATION IS TO REMAIN BUT PRUNING MAY BE REQUIRED TO ALLOW SPACE FOR CONSTRUCTION AND CONSTRUCTION EQUIPMENT.



31ST AVENUE  
STA 1+00 TO STA 6+00



NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
JRN DRAFTED	9/13/2024	DATE
JAG CHECKED	9/16/2024	DATE
APPROVED		DATE



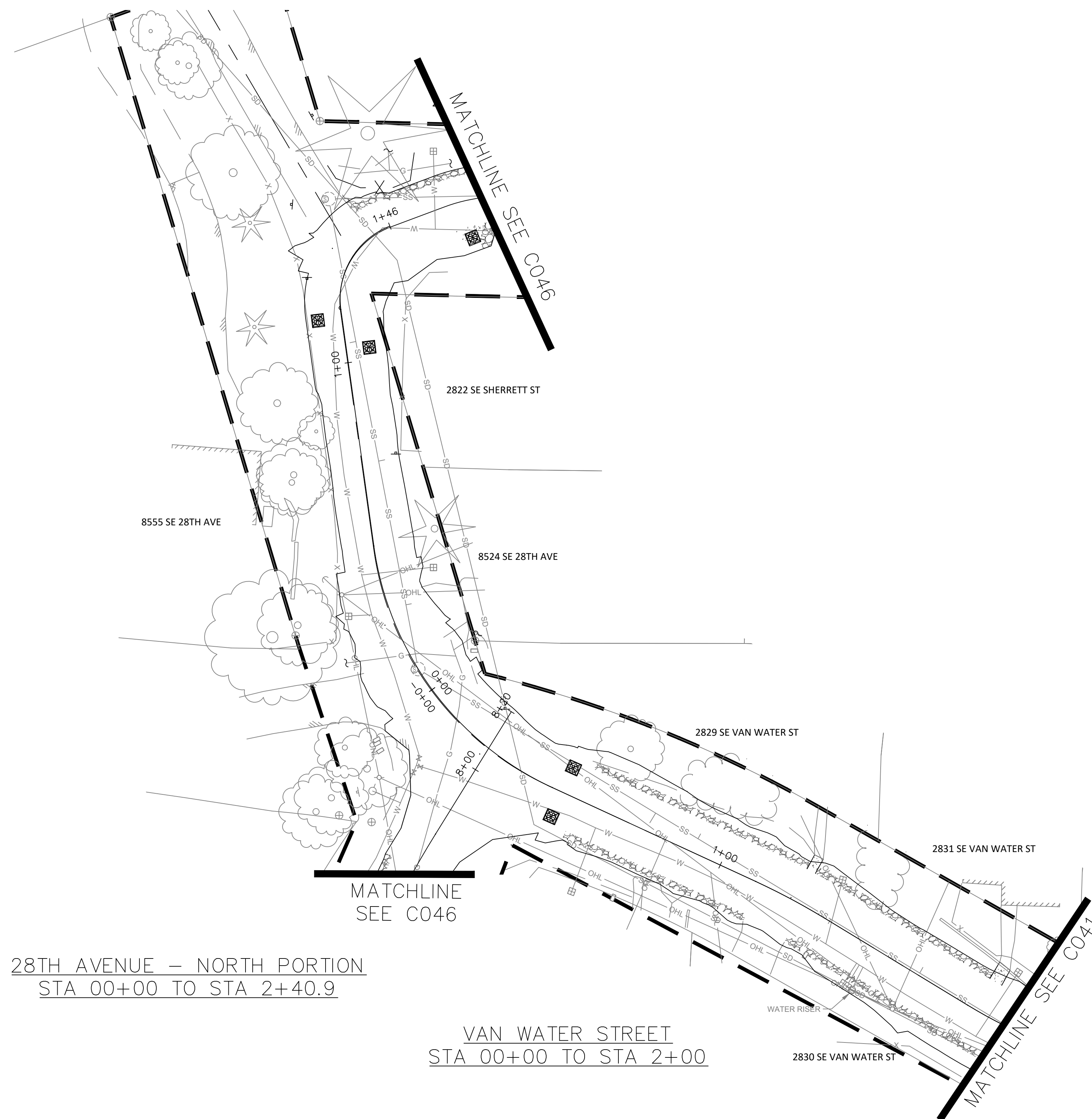
**CITY OF MILWAUKIE**  
10501 SE MAIN STREET  
MILWAUKIE, OR 97222  
PHONE: 503-786-7600  
FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**

30TH AVE, 31ST AVE DEMOLITION & EROSION CONTROL

PROJECT NO.:	W61	SHEET NO.:	23 OF 93	DATE:	9/13/2024	SHEET:	C030
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28TH AVENUE – NORTH PORTION  
STA 00+00 TO STA 2+40.9

VAN WATER STREET  
STA 00+00 TO STA 2+00



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ORIGINAL PAGE SIZE 22" X 34"

NO.	DATE	BY	REVISIONS

TAP 3/11/2022  
DESIGNED DATE  
JRN 9/13/2024  
DRAFTED DATE  
JAG 9/16/2024  
CHECKED DATE  
APPROVED DATE



CITY OF MILWAUKIE

10501 SE MAIN STREET  
MILWAUKIE, OR 97222

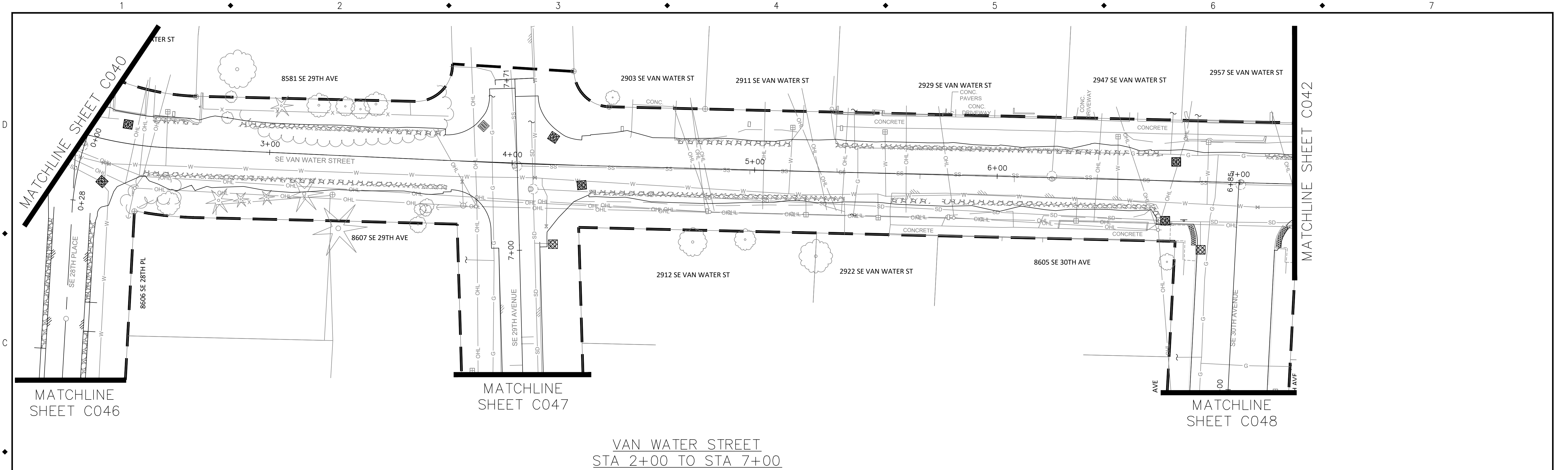
PHONE: 503-786-7600  
FAX: 503-774-8236

ARDENWALD NORTH IMPROVEMENTS

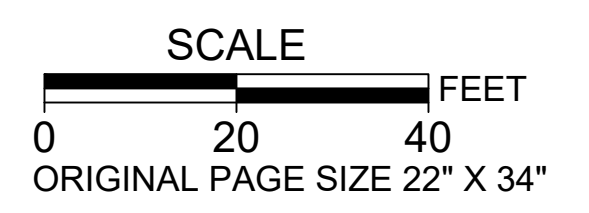
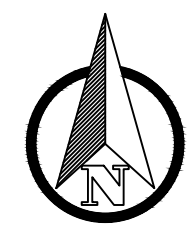
28TH AVE & VAN WATER ST GRADING, STREET, AND UTILITY ESCP

PROJECT NO.:	W61	SHEET NO.:	24 OF 93	DATE:	9/13/2024	SHEET:	C040
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VAN WATER STREET  
STA 2+00 TO STA 7+00



NO.	DATE	BY	REVISIONS

TAP DESIGNED 3/11/2022 DATE  
 JRN DRAFTED 9/13/2024 DATE  
 JAG CHECKED 9/16/2024 DATE  
 APPROVED \_\_\_\_\_ DATE



**CITY OF MILWAUKIE**

10501 SE MAIN STREET  
MILWAUKIE, OR 97222

PHONE: 503-786-7600  
FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**

VAN WATER ST GRADING, STREET, AND UTILITY ESCP

STA 2+00 TO STA 7+00

PROJECT NO.: W61	SHEET NO.: 25 OF 93	DATE: 9/13/2024	SHEET: C041
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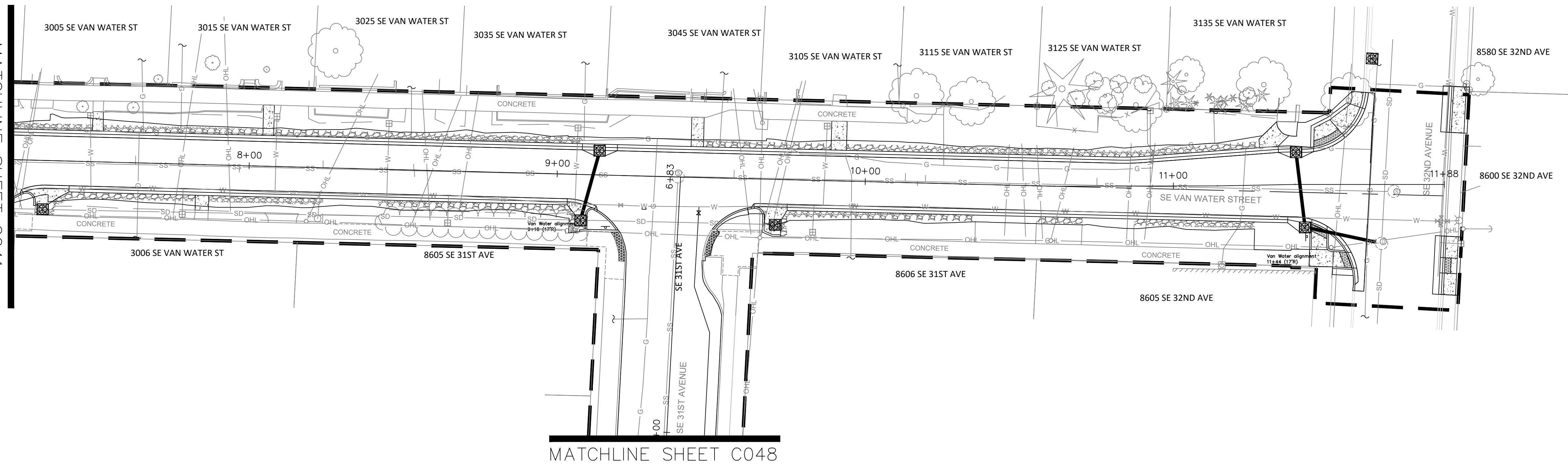
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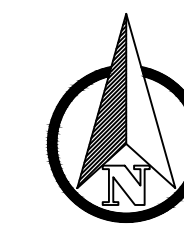
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MATCHLINE SHEET C041



MATCHLINE SHEET C048

VAN WATER STREET  
STA 7+00 TO STA 11+65



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NO.	DATE	BY	REVISIONS

TAP DESIGNED 3/11/2022 DATE  
 JRN DRAFTED 9/13/2024 DATE  
 JAG CHECKED 9/16/2024 DATE  
 APPROVED \_\_\_\_\_ DATE



**CITY OF MILWAUKIE**

10501 SE MAIN STREET  
 MILWAUKIE, OR 97222  
 PHONE: 503-786-7600  
 FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**

VAN WATER ST GRADING, STREET, AND UTILITY ESCP

STA 7+00 TO 11+65

PROJECT NO.: W61	SHEET NO.: 26 OF 93	DATE: 9/13/2024	SHEET: C042
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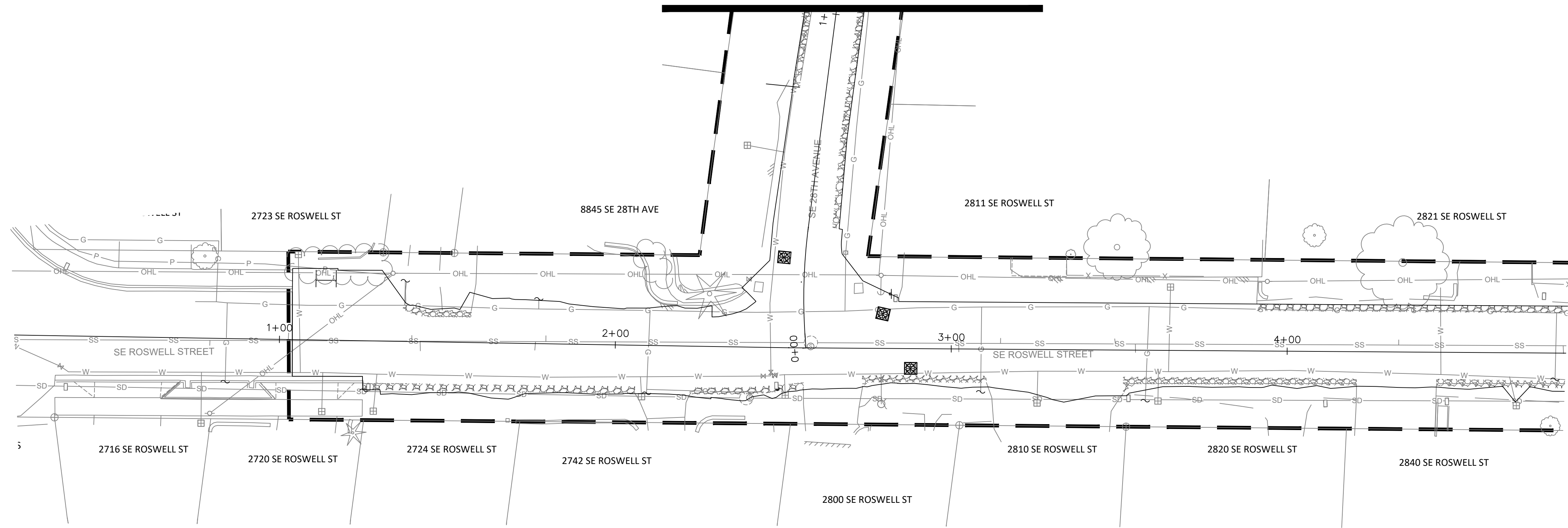
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MATCHLINE SHEET C046

MATCHLINE SHEET C044



ROSSELL STREET  
STA 0+00 TO STA 4+50



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ORIGINAL PAGE SIZE 22" X 34"

NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
JRN DRAFTED	9/13/2024	DATE
JAG CHECKED	9/16/2024	DATE
APPROVED		DATE



CITY OF MILWAUKIE

10501 SE MAIN STREET  
MILWAUKIE, OR 97222

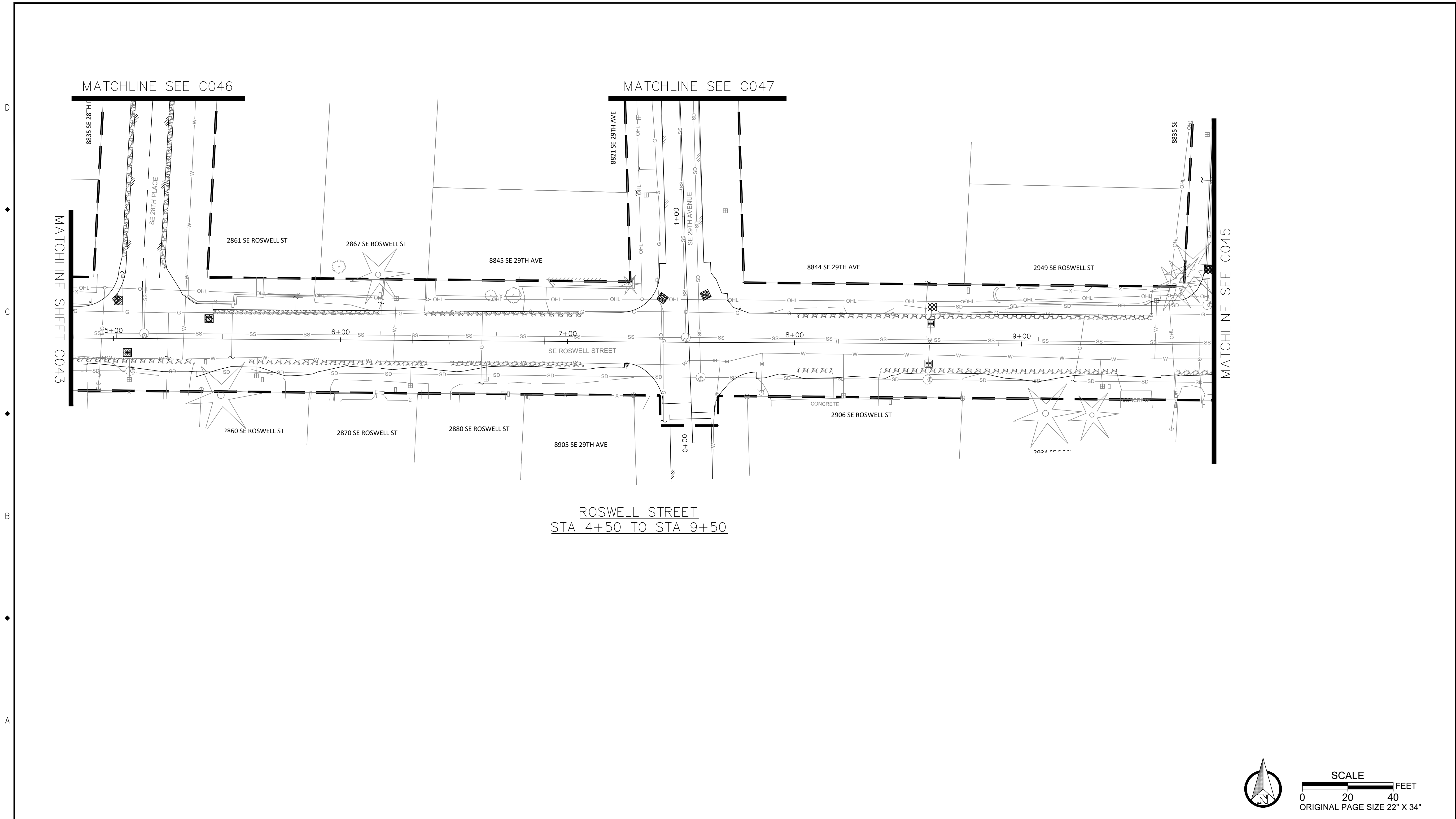
PHONE: 503-786-7600  
FAX: 503-774-8236

ARDENWALD NORTH IMPROVEMENTS

ROSSELL ST GRADING, STREET, AND UTILITY ESCP

STA 0+00 TO STA 4+50

PROJECT NO.:	W61	SHEET NO.:	27 OF 93	DATE:	9/13/2024	SHEET:	C043
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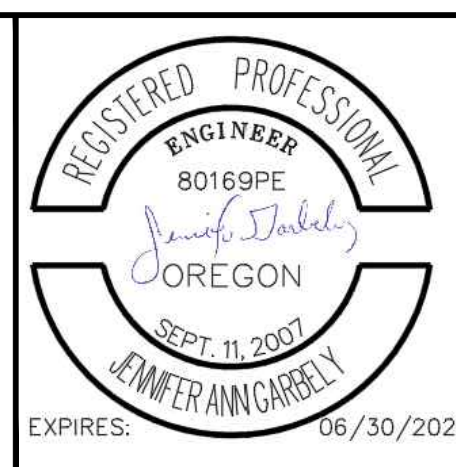
ROSWELL STREET  
 STA 4+50 TO STA 9+50



SCALE  
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NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
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APPROVED		DATE



**CITY OF MILWAUKIE**

10501 SE MAIN STREET  
 MILWAUKIE, OR 97222

PHONE: 503-786-7600  
 FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**

ROSWELL ST GRADING, STREET, AND UTILITY ESCP

STA 4+50 TO STA 9+50

PROJECT NO.:	W61	SHEET NO.:	28 OF 93	DATE:	9/13/2024	SHEET:	C044
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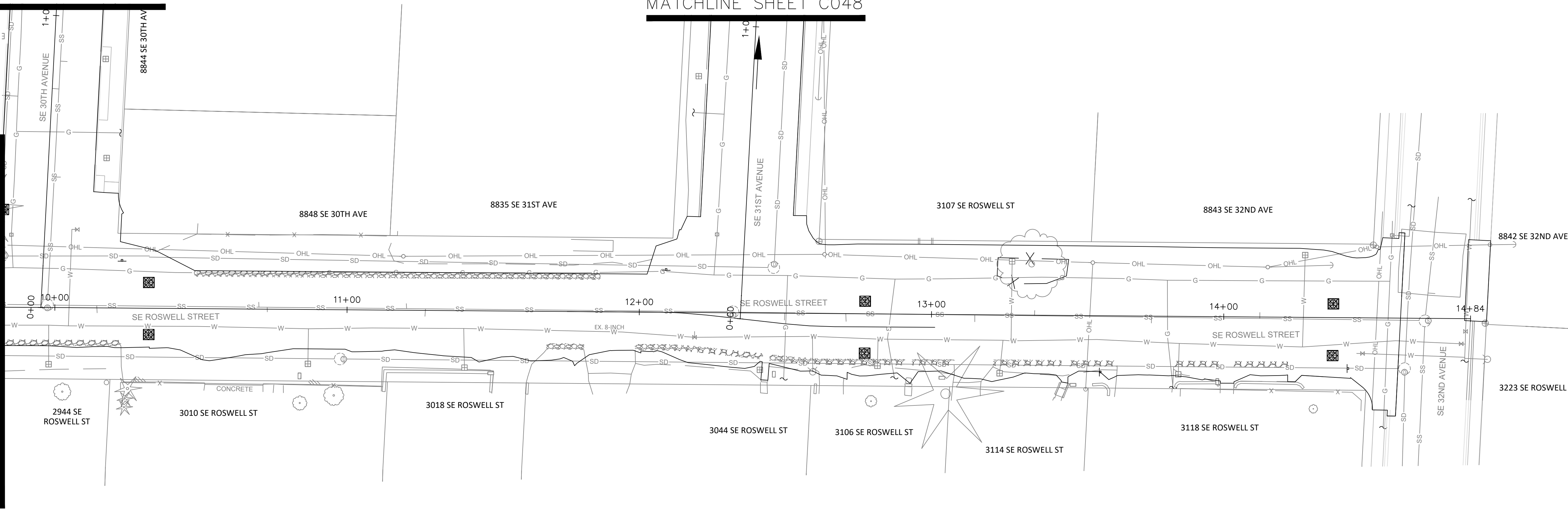
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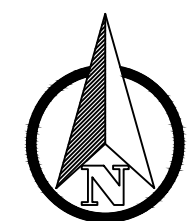
MATCHLINE SHEET C048

MATCHLINE SHEET C048

MATCHLINE SHEET C044



ROSWELL STREET  
STA 9+50 TO STA 14+50



SCALE  
0 20 40 FEET  
ORIGINAL PAGE SIZE 22" X 34"

NO.	DATE	BY	REVISIONS

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JAG CHECKED	9/16/2024	DATE
APPROVED		DATE



**CITY OF MILWAUKIE**

10501 SE MAIN STREET  
MILWAUKIE, OR 97222

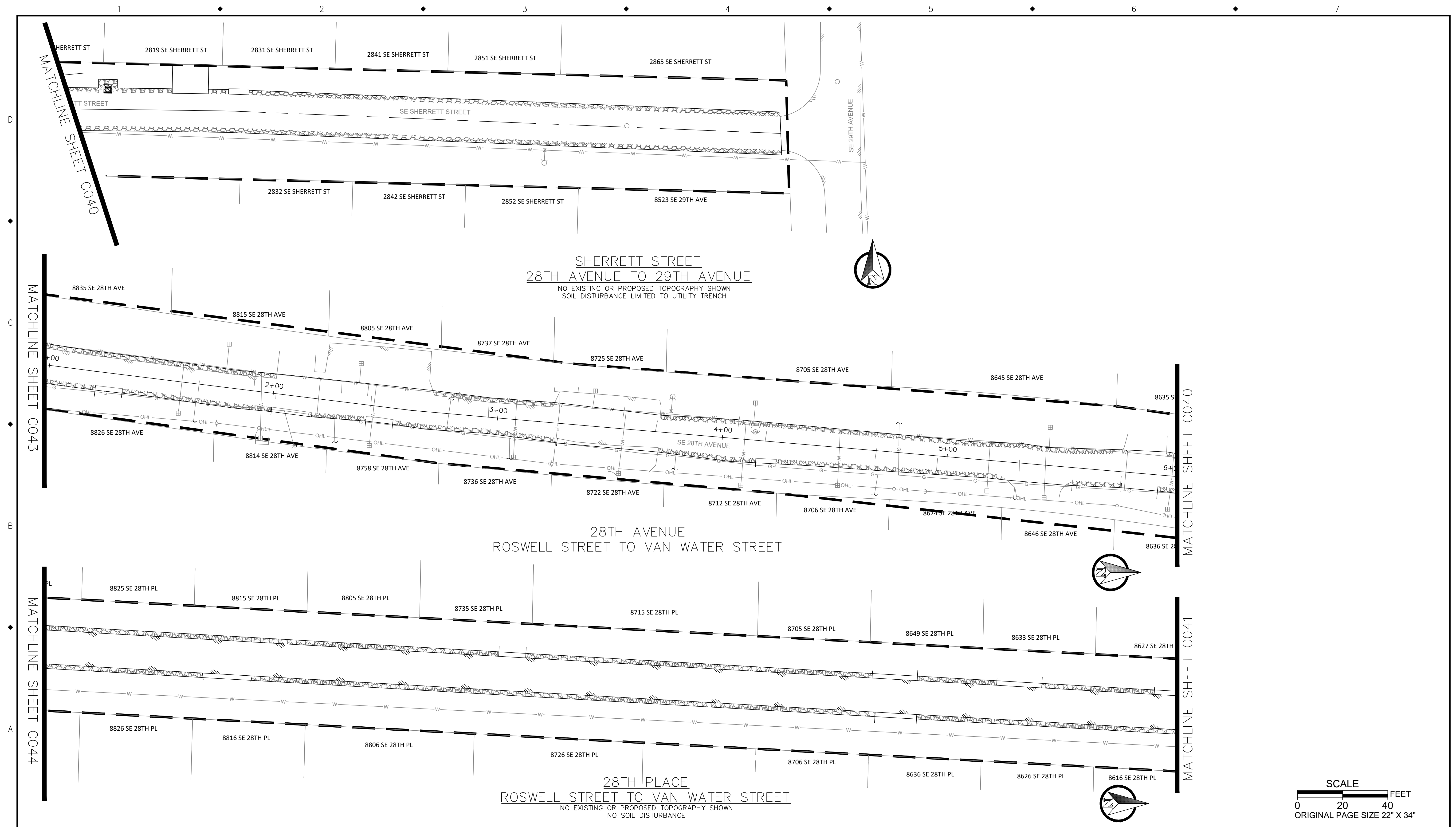
PHONE: 503-786-7600  
FAX: 503-774-8236

### ARDENWALD NORTH IMPROVEMENTS

#### ROSWELL ST GRADING, STREET, AND UTILITY ESCP

STA 9+50 TO STA 14+50

PROJECT NO.:	W61	SHEET NO.:	29 OF 93	DATE:	9/13/2024	SHEET:	C045
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NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
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JAG CHECKED	9/16/2024	DATE
APPROVED		DATE

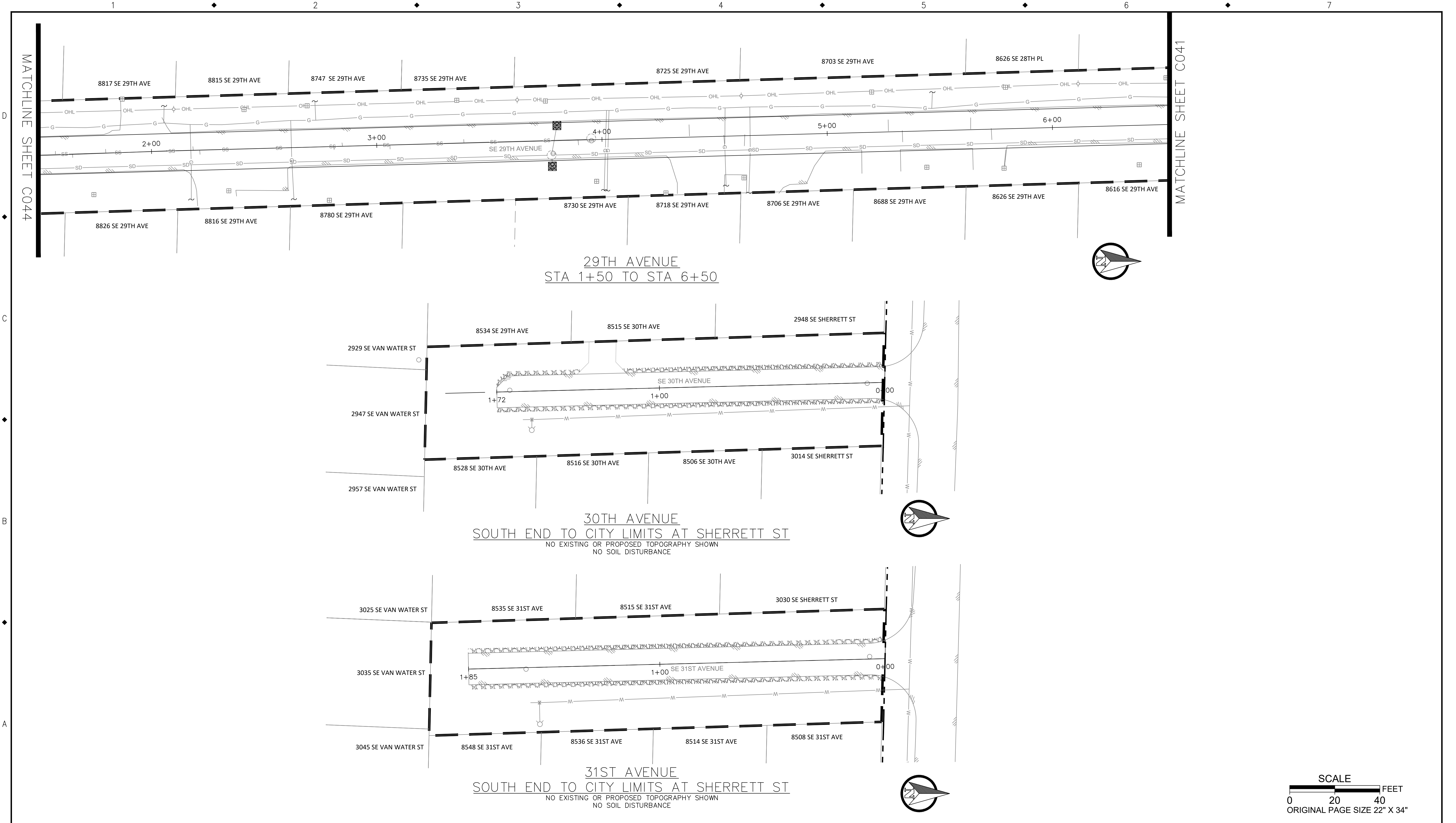


**CITY OF MILWAUKIE**  
10501 SE MAIN STREET  
MILWAUKIE, OR 97222  
PHONE: 503-786-7600  
FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**

SHERRETT ST, 28TH AVE, 28TH PL GRADING, STREET, AND UTILITY ESCP

PROJECT NO.:	W61	SHEET NO.:	30 OF 93	DATE:	9/13/2024	SHEET:	C046
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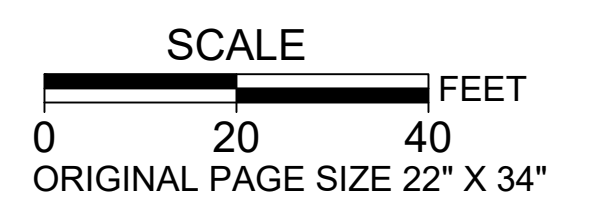
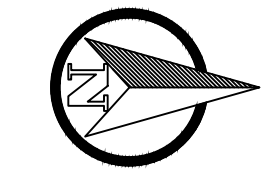
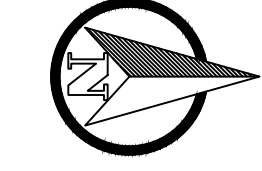
MATCHLINE SHEET C044

MATCHLINE SHEET C041

29TH AVENUE  
STA 1+50 TO STA 6+50

30TH AVENUE  
SOUTH END TO CITY LIMITS AT SHERRETT ST  
NO EXISTING OR PROPOSED TOPOGRAPHY SHOWN  
NO SOIL DISTURBANCE

31ST AVENUE  
SOUTH END TO CITY LIMITS AT SHERRETT ST  
NO EXISTING OR PROPOSED TOPOGRAPHY SHOWN  
NO SOIL DISTURBANCE



NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
JRN DRAFTED	9/13/2024	DATE
JAG CHECKED	9/16/2024	DATE
APPROVED		DATE

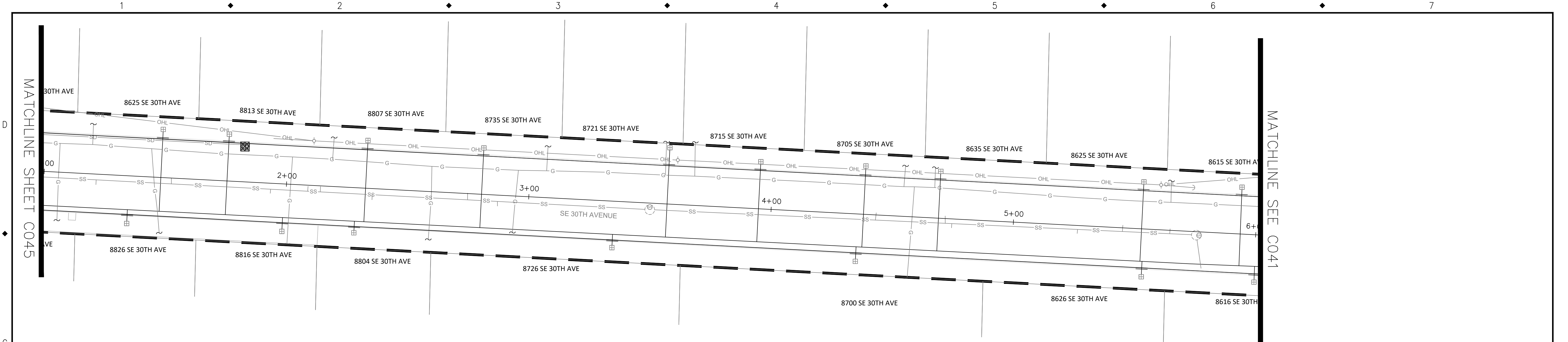


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10501 SE MAIN STREET  
MILWAUKIE, OR 97222  
PHONE: 503-786-7600  
FAX: 503-774-8236

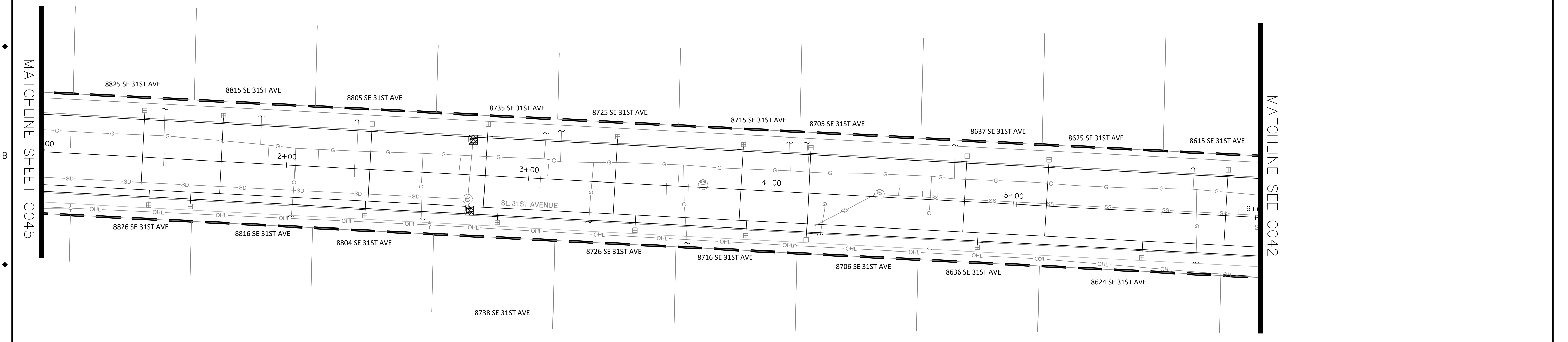
**ARDENWALD NORTH IMPROVEMENTS**

29TH AVE, 30TH AVE & 31ST AVE GRADING, STREET, AND UTILITY ESCP

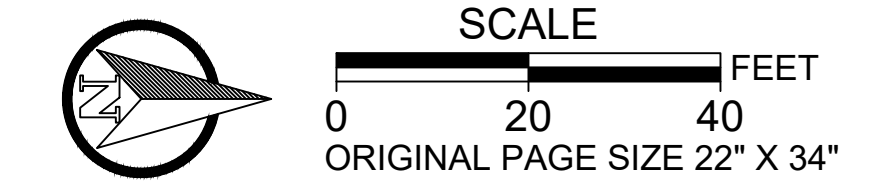
PROJECT NO.:	W61	SHEET NO.:	31 OF 93	DATE:	9/13/2024	SHEET:	C047
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30TH AVENUE  
STA 1+00 TO STA 6+00



31ST AVENUE  
STA 1+00 TO STA 6+00



NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
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JAG CHECKED	9/16/2024	DATE
APPROVED		DATE

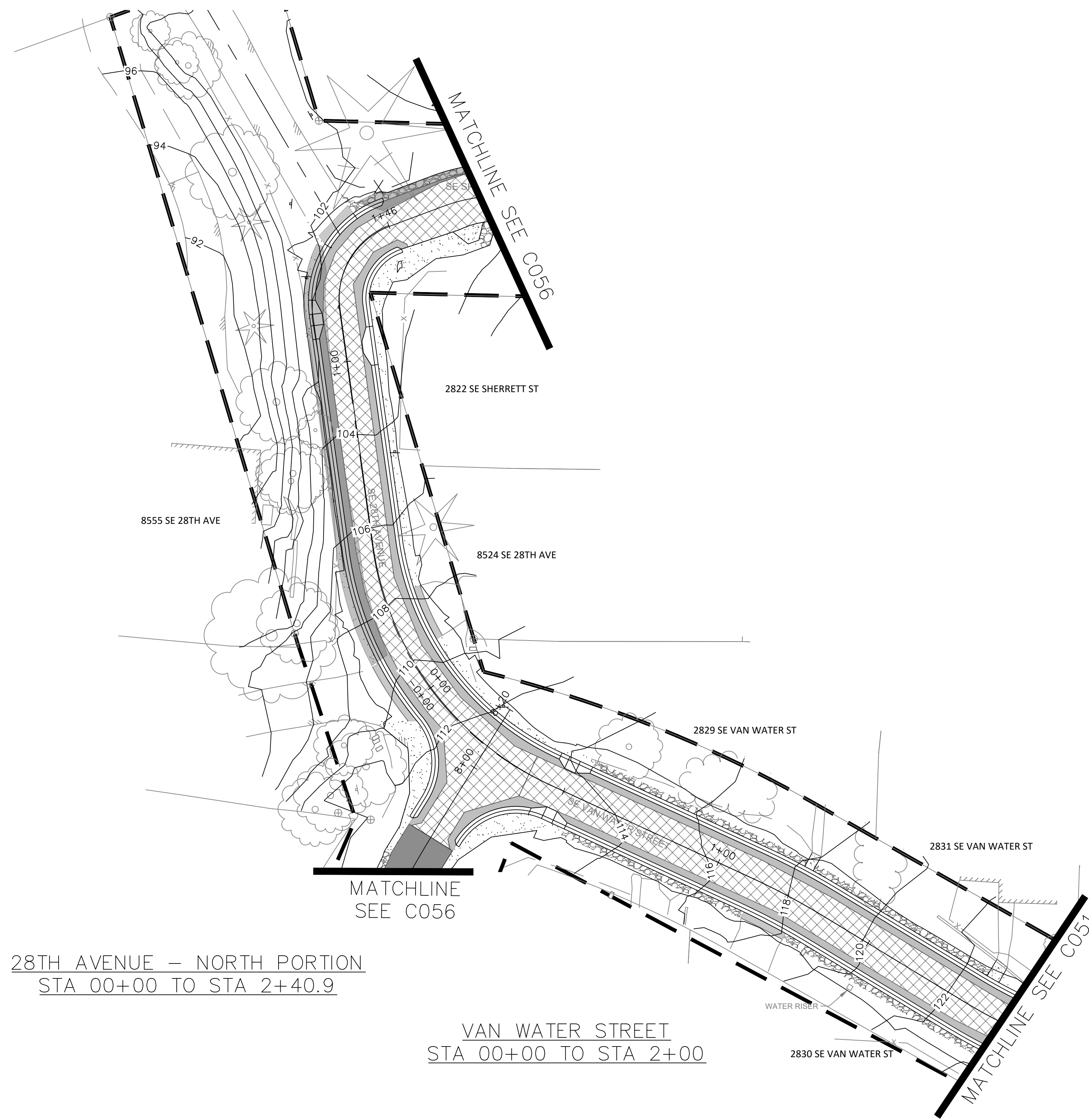



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**ARDENWALD NORTH IMPROVEMENTS**  
 30TH AVE, 31ST AVE GRADING, STREET, AND UTILITY ESCP

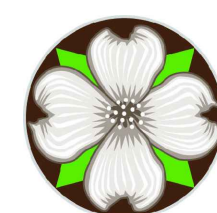
PROJECT NO.:	W61	SHEET NO.:	32 OF 93	DATE:	9/13/2024	SHEET:	C048
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JAG CHECKED	9/16/2024	DATE
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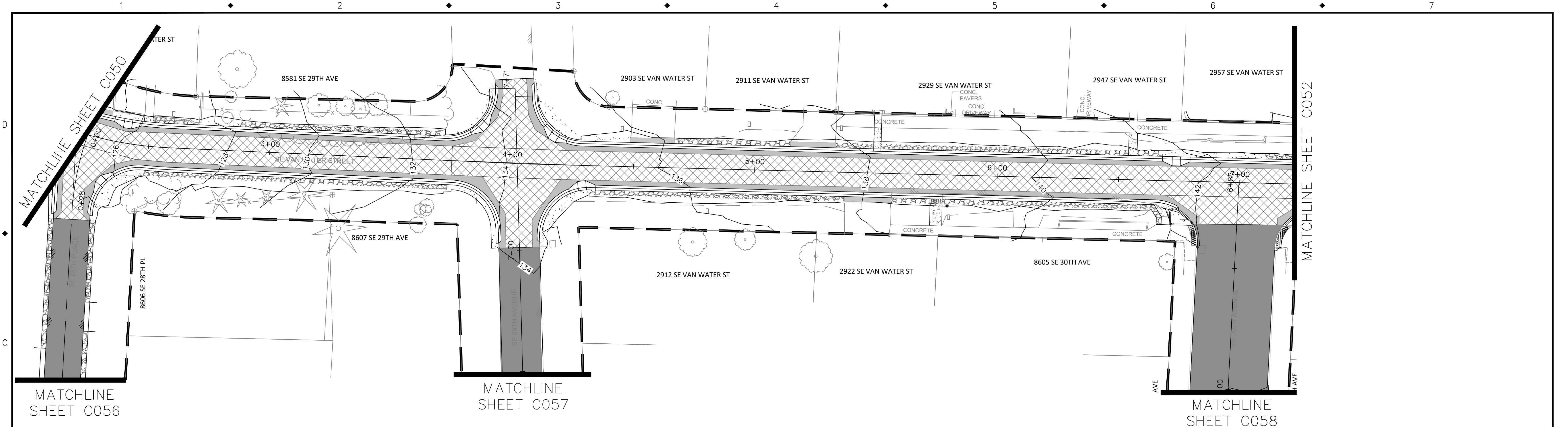
PHONE: 503-786-7600  
FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**

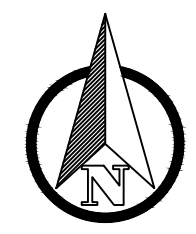
**28TH AVE & VAN WATER ST FINAL STABILIZATION**

NO.	DATE	BY	REVISIONS

PROJECT NO.:	W61	SHEET NO.:	33 OF 93	DATE:	9/13/2024	SHEET:	C050
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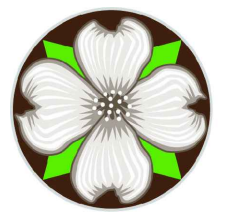
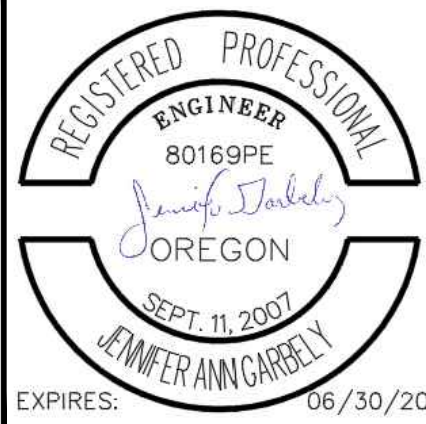
VAN WATER STREET  
STA 2+00 TO STA 7+00



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TAP DESIGNED	3/11/2022	DATE
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JAG CHECKED	9/16/2024	DATE
APPROVED		DATE



**CITY OF MILWAUKIE**

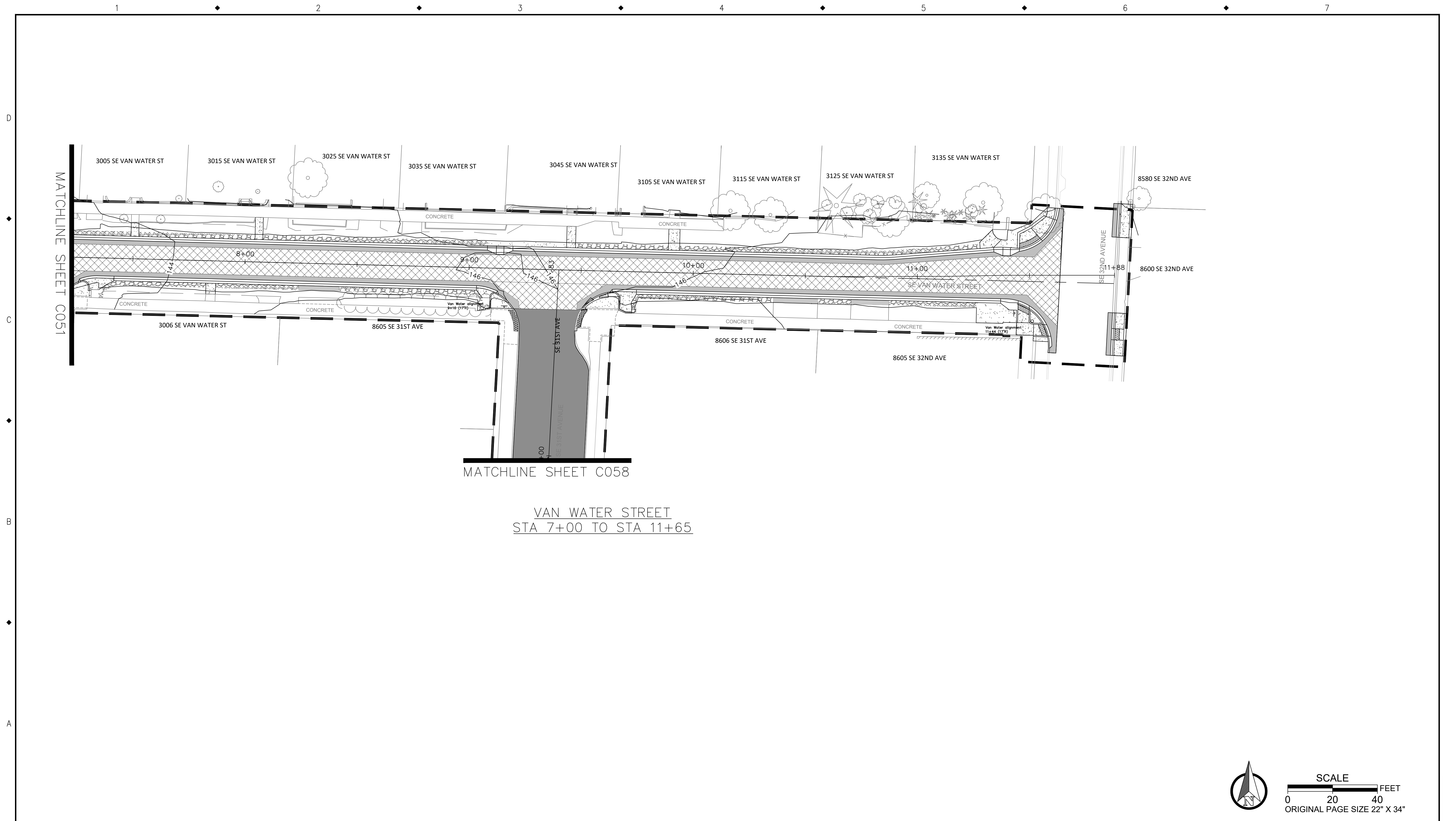
10501 SE MAIN STREET  
MILWAUKIE, OR 97222

PHONE: 503-786-7600  
FAX: 503-774-8236

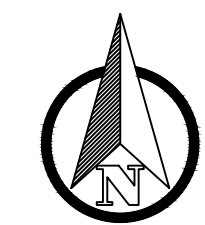
**ARDENWALD NORTH IMPROVEMENTS**

VAN WATER ST FINAL STABILIZATION  
STA 2+00 TO STA 7+00

PROJECT NO.:	W61	SHEET NO.:	34 OF 93	DATE:	9/13/2024	SHEET:	C051
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VAN WATER STREET  
STA 7+00 TO STA 11+65



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NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
JRN DRAFTED	9/13/2024	DATE
JAG CHECKED	9/16/2024	DATE
APPROVED		DATE




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 FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**

VAN WATER ST FINAL STABILIZATION  
STA 7+00 TO 11+65

PROJECT NO.:	W61	SHEET NO.:	35 OF 93	DATE:	9/13/2024	SHEET:	C052
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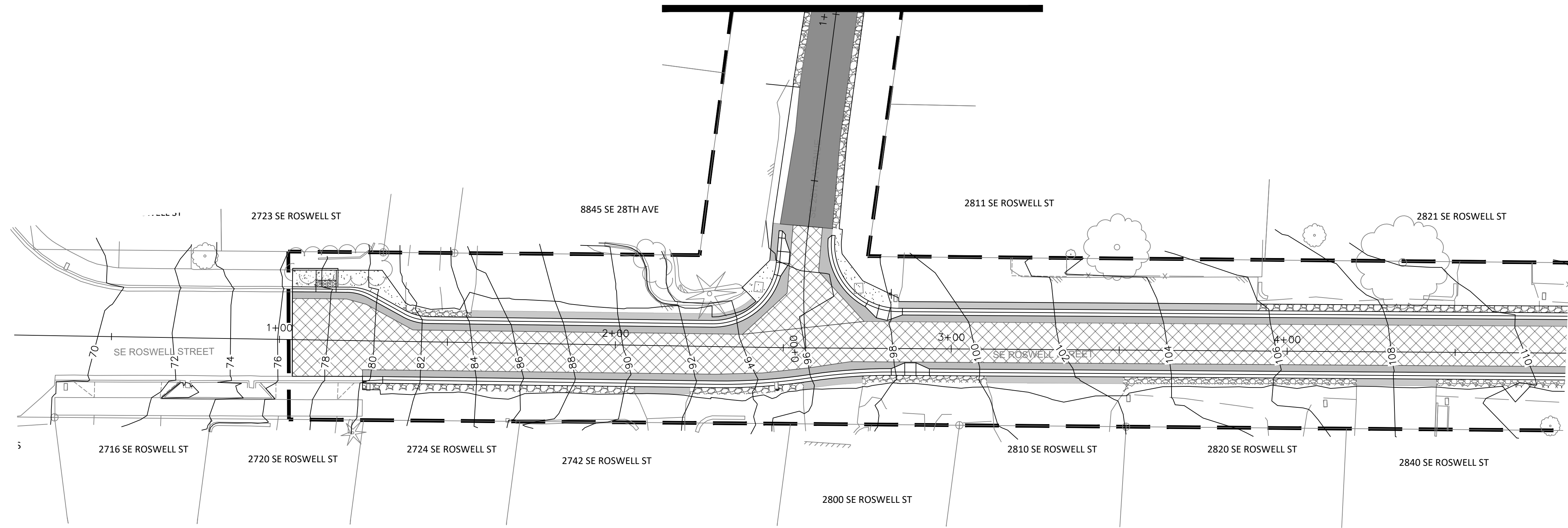
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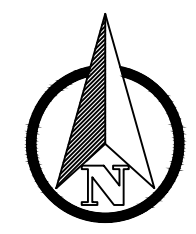
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MATCHLINE SHEET C056



ROSWELL STREET  
STA 0+00 TO STA 4+50

MATCHLINE SHEET C054



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NO.	DATE	BY	REVISIONS

TAP DESIGNED 3/11/2022 DATE  
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 JAG CHECKED 9/16/2024 DATE  
 APPROVED \_\_\_\_\_ DATE



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**ARDENWALD NORTH IMPROVEMENTS**

ROSWELL ST FINAL STABILIZATION  
STA 0+00 TO STA 4+50

PROJECT NO.:	W61	SHEET NO.:	36 OF 93	DATE:	9/13/2024	SHEET:	C053
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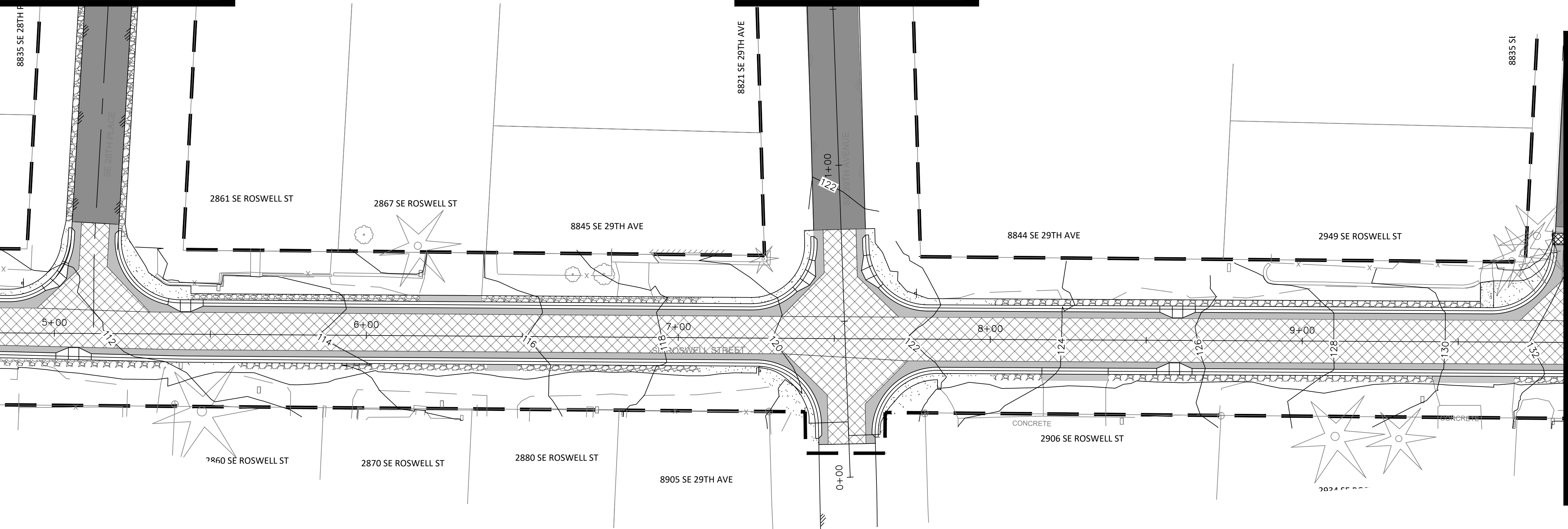
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MATCHLINE SEE C056

MATCHLINE SEE C057

MATCHLINE SHEET C053

MATCHLINE SEE C055



ROSWELL STREET  
STA 4+50 TO STA 9+50



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JAG CHECKED	9/16/2024	DATE
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ARDENWALD NORTH IMPROVEMENTS

ROSWELL ST FINAL STABILIZATION

STA 4+50 TO STA 9+50

PROJECT NO.:	W61	SHEET NO.:	37 OF 93	DATE:	9/13/2024	SHEET:	C054
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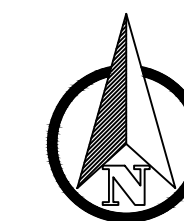
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MATCHLINE SHEET C058

MATCHLINE SHEET C058

MATCHLINE SHEET C054

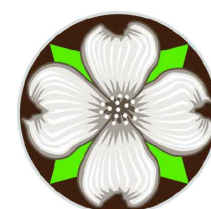
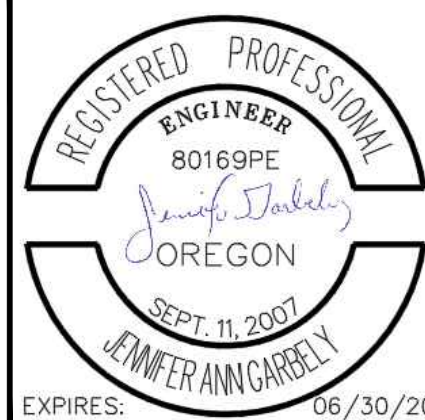
ROSWELL STREET  
STA 9+50 TO STA 14+50



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ORIGINAL PAGE SIZE 22" X 34"

NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
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JAG CHECKED	9/16/2024	DATE
APPROVED		DATE



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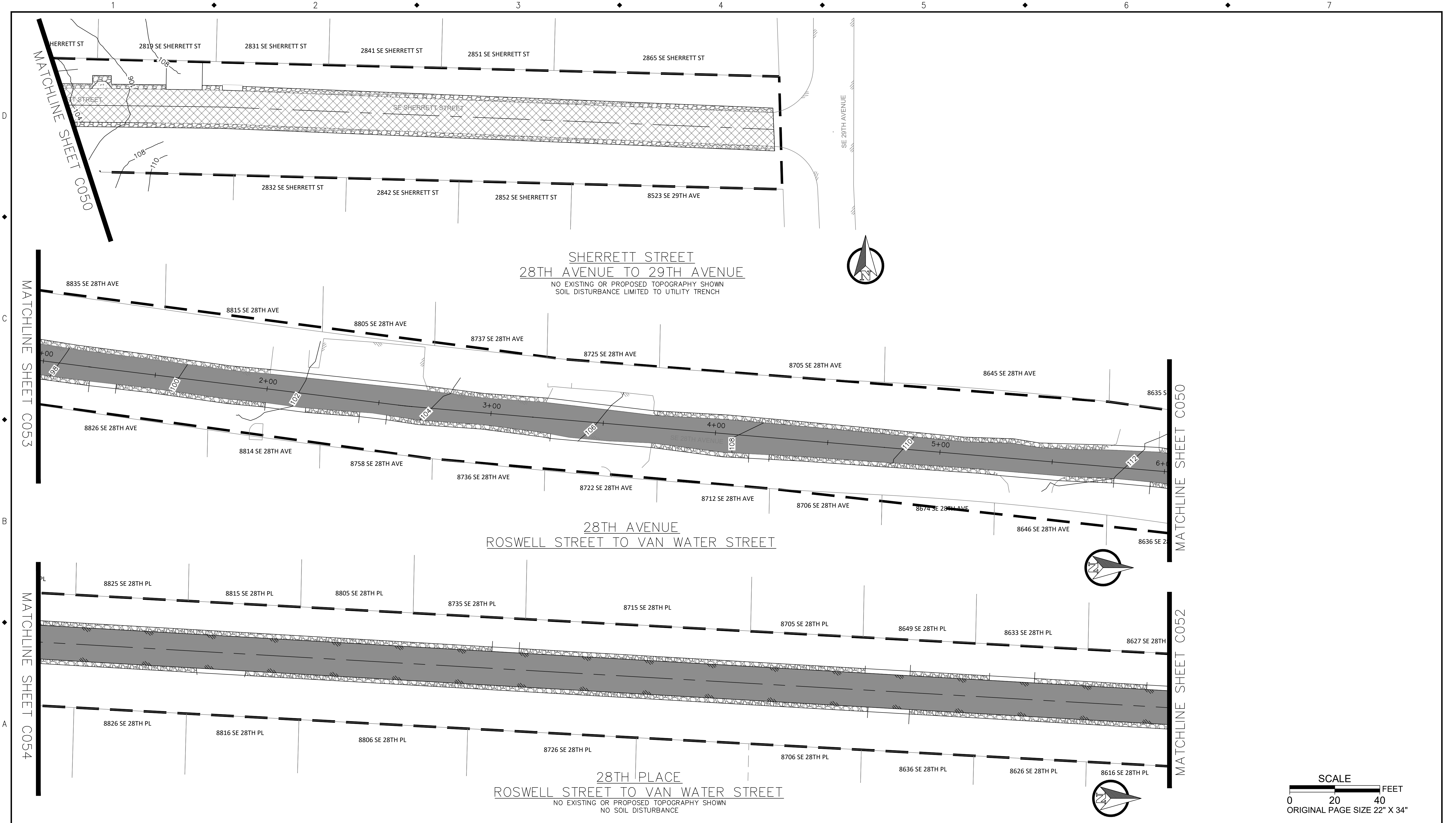
PHONE: 503-786-7600  
FAX: 503-774-8236

ARDENWALD NORTH IMPROVEMENTS

ROSWELL ST FINAL STABILIZATION

STA 9+50 TO STA 14+50

PROJECT NO.:	W61	SHEET NO.:	38 OF 93	DATE:	9/13/2024	SHEET:	C055
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NO.	DATE	BY	REVISIONS

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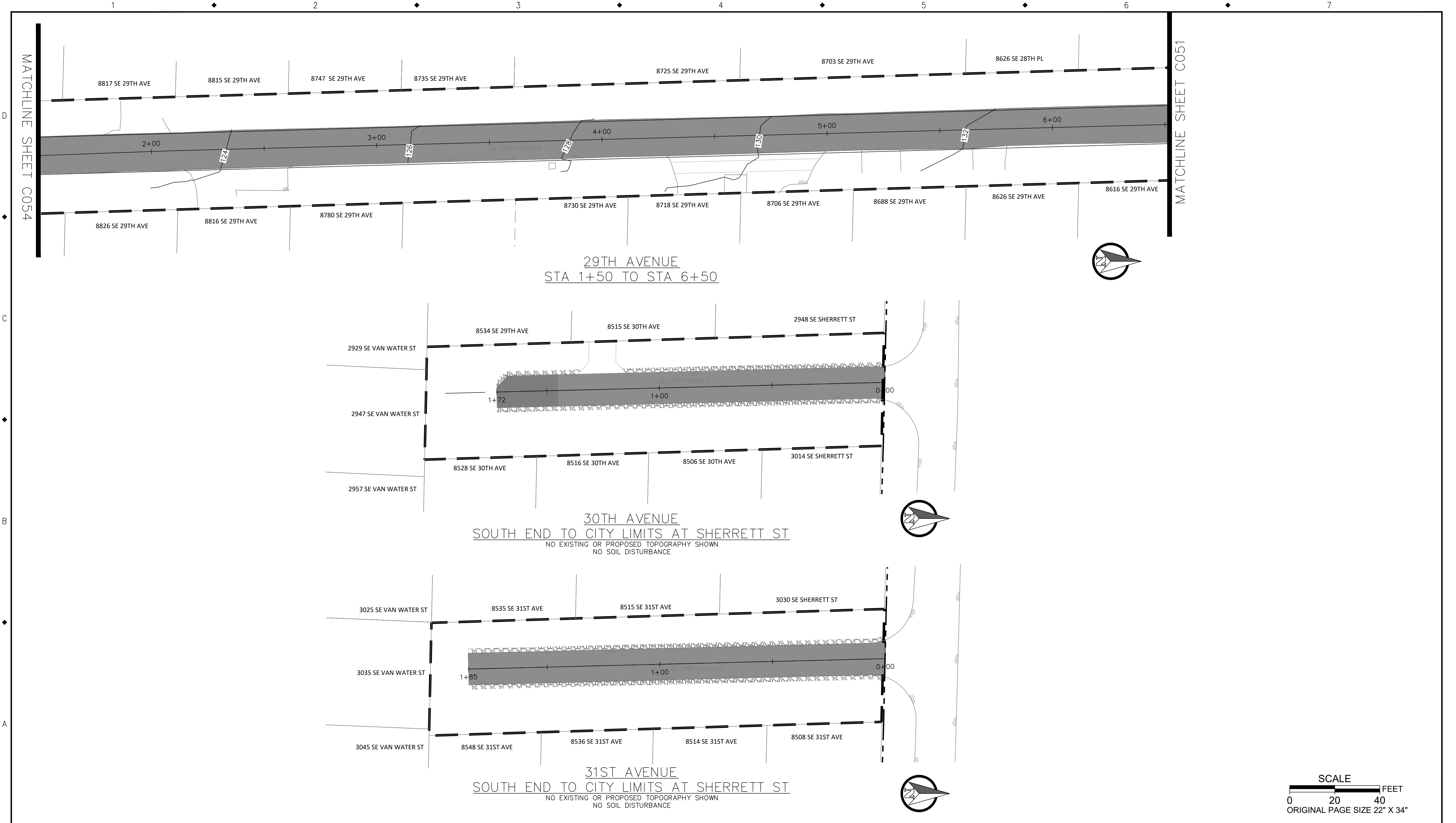


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<b>ARDENWALD NORTH IMPROVEMENTS</b>	
SHERRETT ST, 28TH AVE, 28TH PL FINAL STABILIZATION	
PROJECT NO.: W61	SHEET NO.: 39 OF 93
DATE: 9/13/2024	SHEET: C056



NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
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JAG CHECKED	9/16/2024	DATE
APPROVED		DATE



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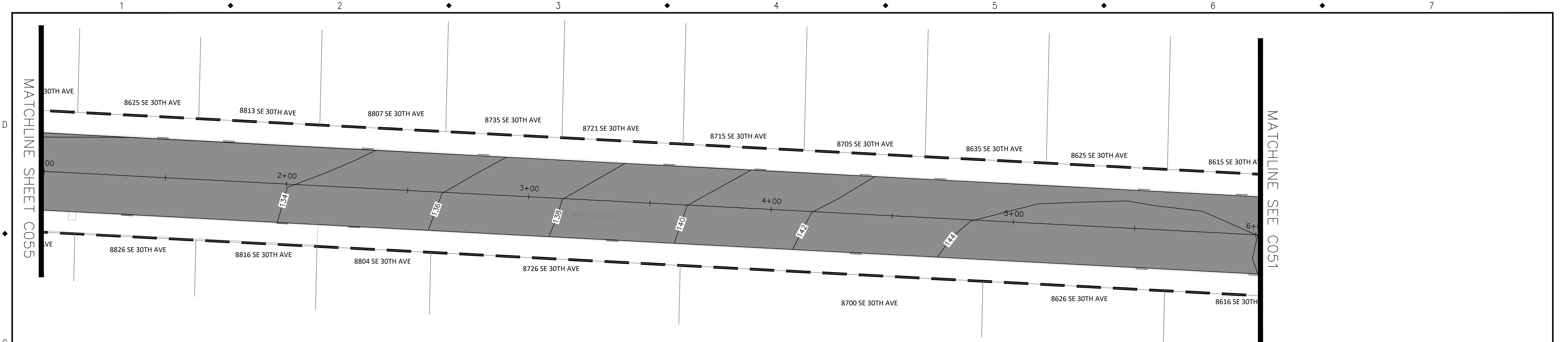
PHONE: 503-786-7600  
FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**

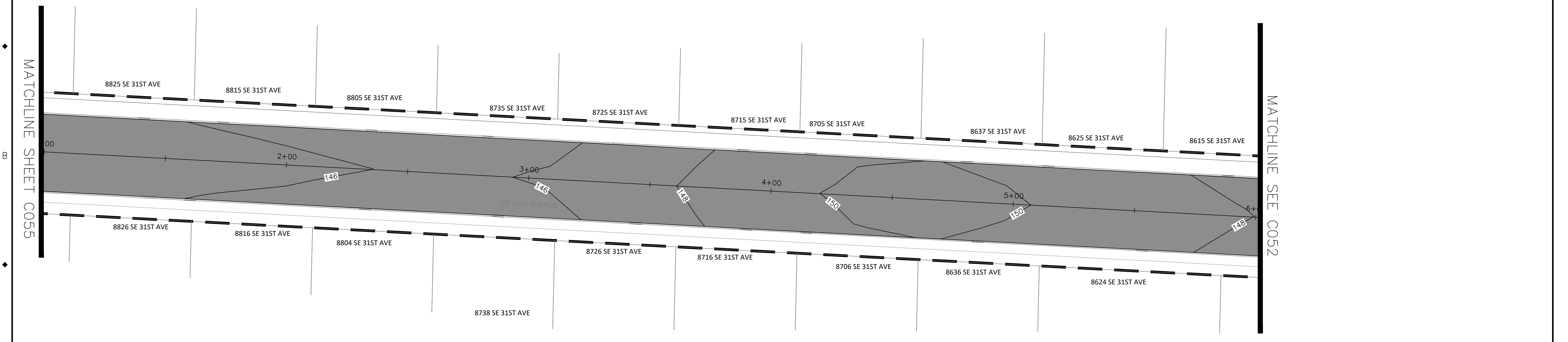
29TH AVE, 30TH AVE, 31ST AVE FINAL STABILIZATION

PROJECT NO.:	W61	SHEET NO.:	40 OF 93	DATE:	9/13/2024	SHEET:	C057
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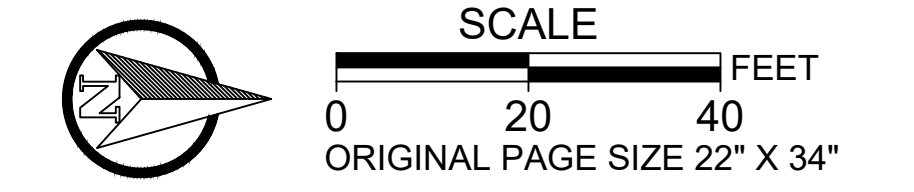




30TH AVENUE  
STA 1+00 TO STA 6+00



31ST AVENUE  
STA 1+00 TO STA 6+00



NO.	DATE	BY	REVISIONS

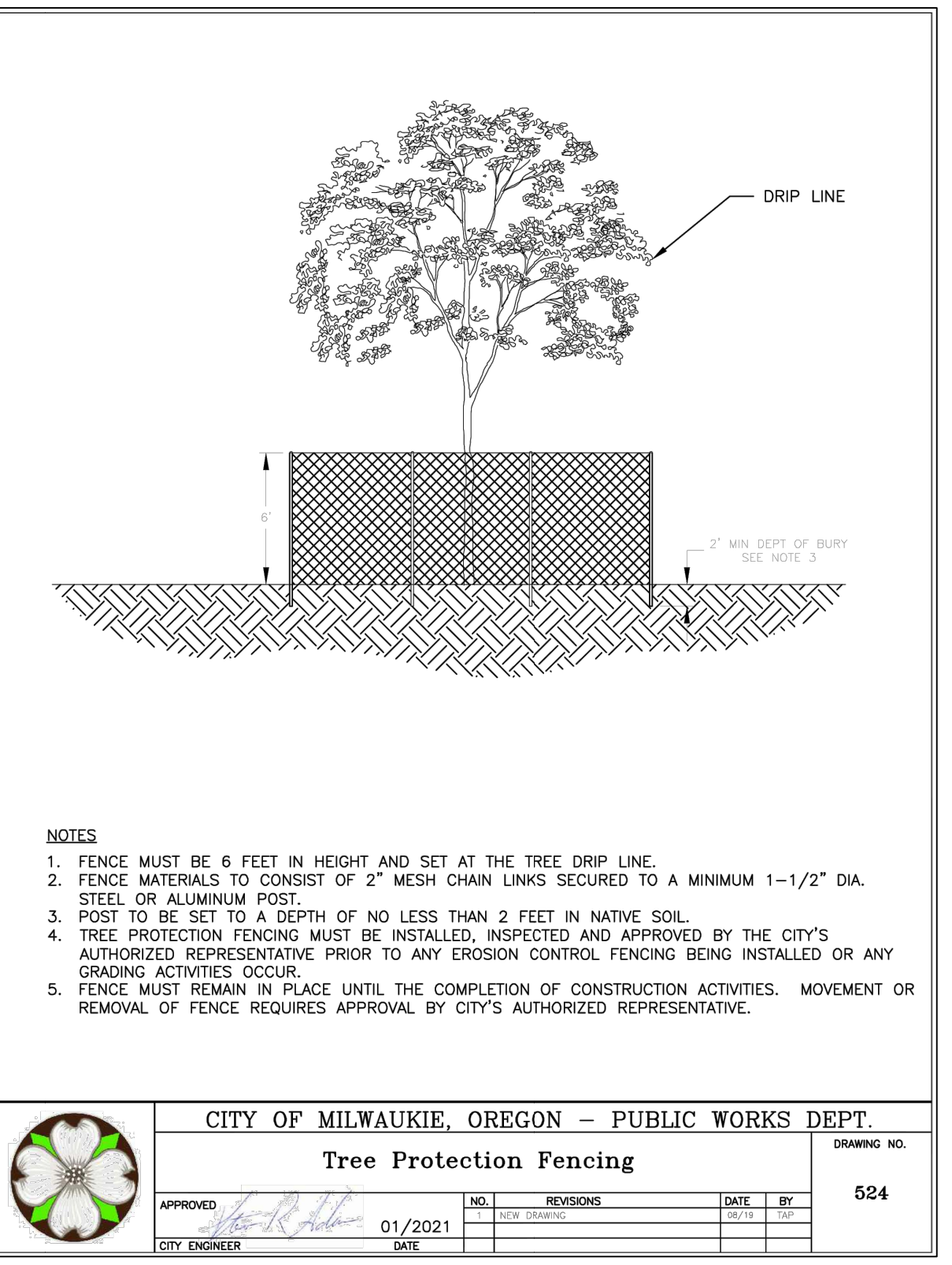
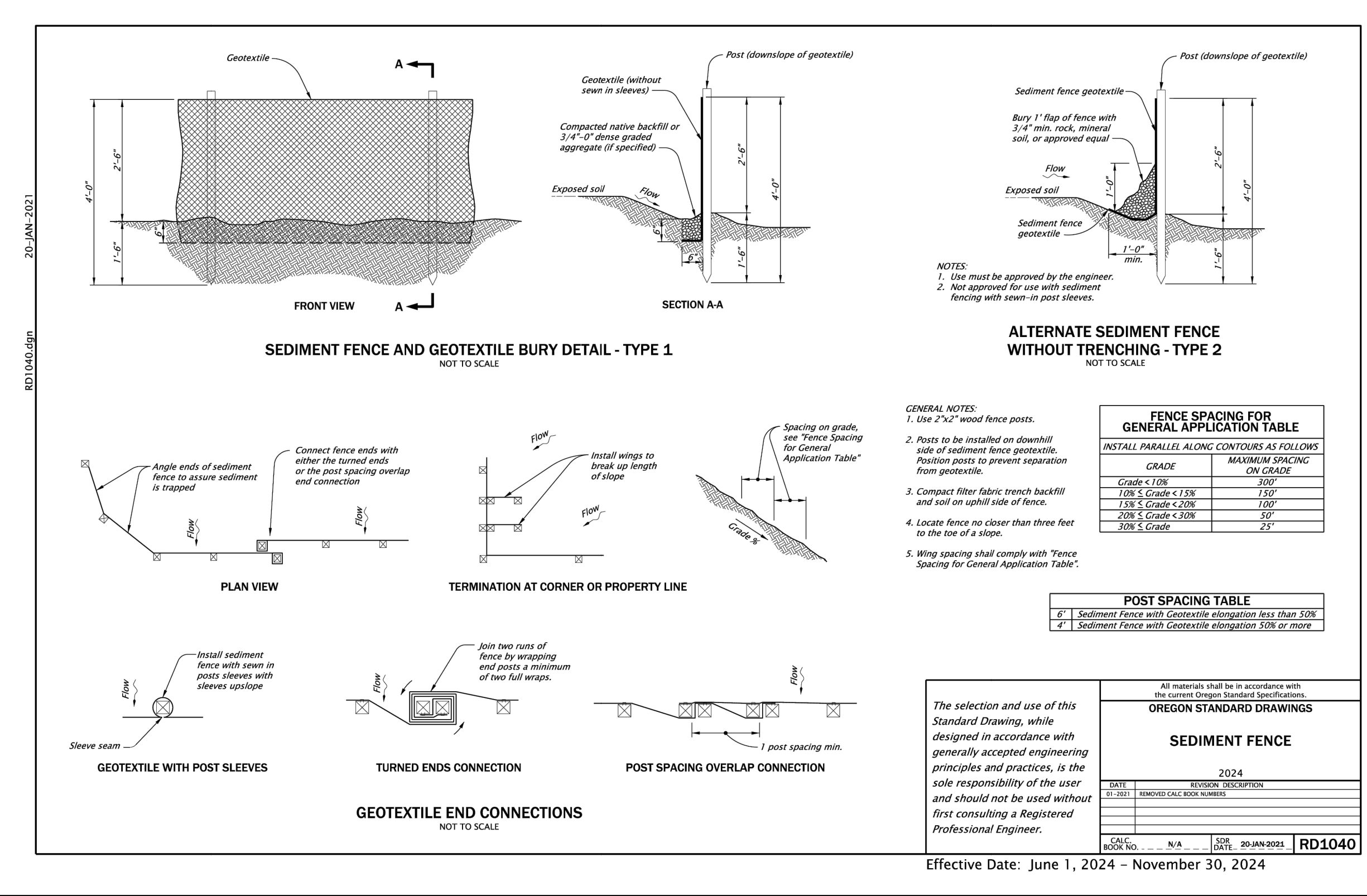
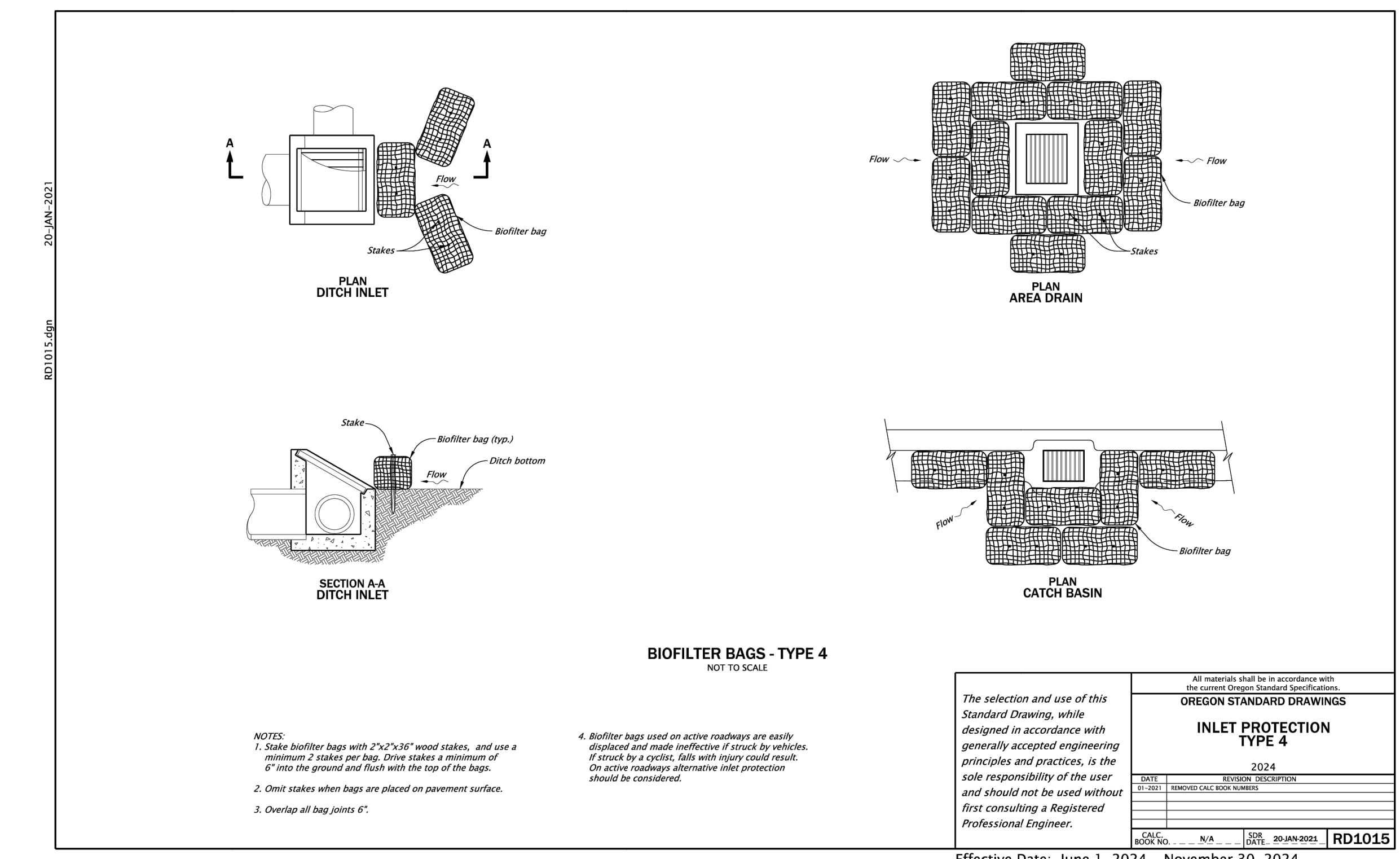
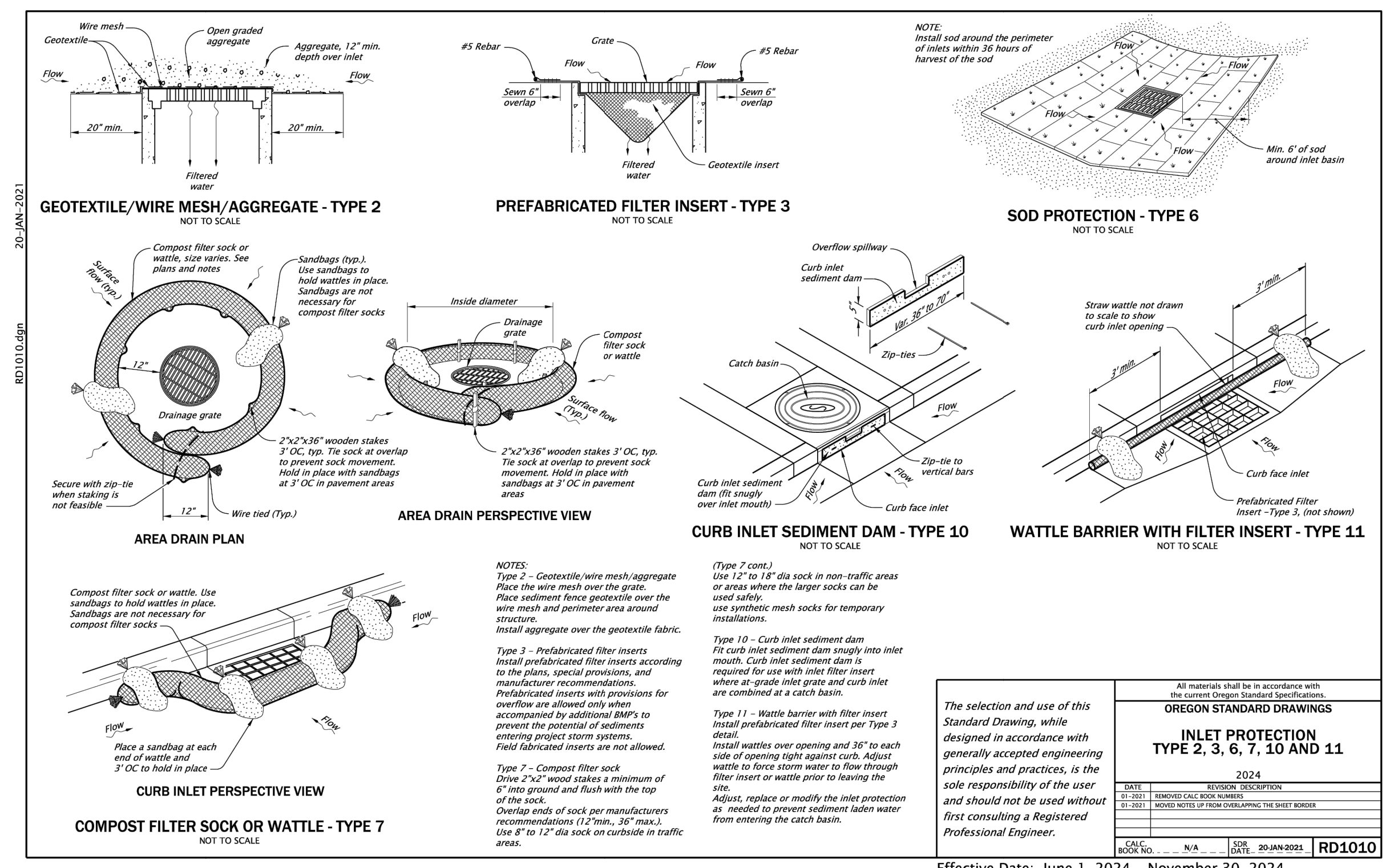
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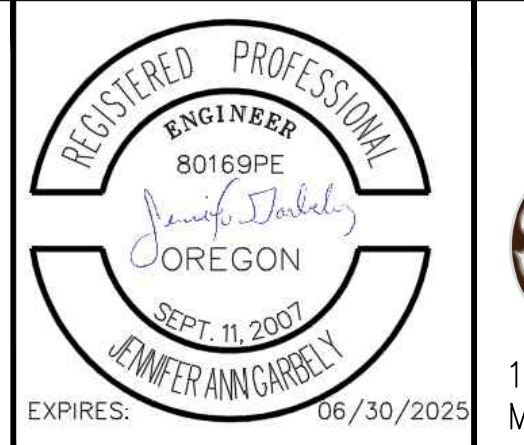
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**ARDENWALD NORTH IMPROVEMENTS**  
30TH AVE, 31ST AVE FINAL STABILIZATION

PROJECT NO.:	W61	SHEET NO.:	41 OF 93	DATE:	9/13/2024	SHEET:	C058
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TAP	3/11/2022	DATE
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JRN	9/13/2024	DATE
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CHECKED		
APPROVED		DATE



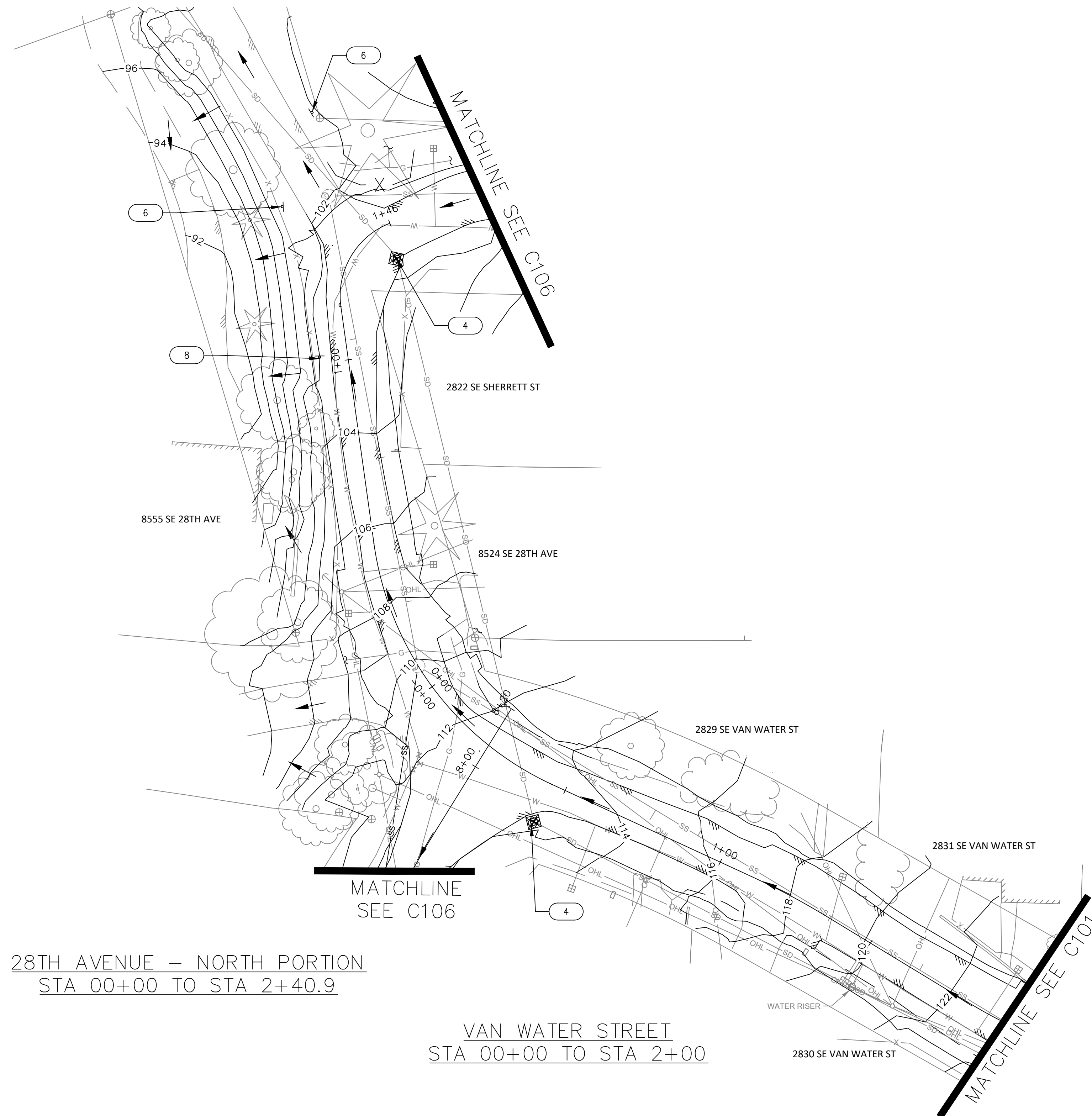
ARDENWALD NORTH IMPROVEMENTS			
EROSION & SEDIMENT CONTROL DETAILS			
PROJECT NO.:	W61	SHEET NO.:	42 OF 93
DATE:	9/13/2024	SHEET:	C060

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28TH AVENUE – NORTH PORTION  
 STA 00+00 TO STA 2+40.9

VAN WATER STREET  
 STA 00+00 TO STA 2+00

DEMOLITION AND EROSION CONTROL KEY NOTES

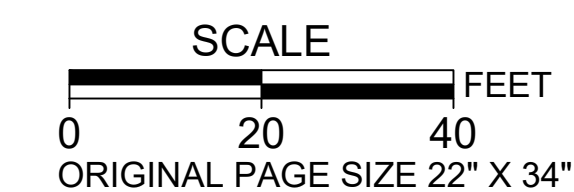
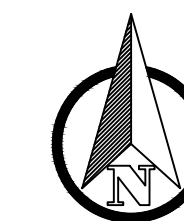
- 1 PROTECT EXISTING CURB AND/OR SIDEWALK.
- 2 REMOVE EXISTING CURB.
- 3 REMOVE EXISTING SIDEWALK.
- 4 REMOVE EXISTING CATCH BASIN. SEE STORM SHEETS C200 TO C206.
- 5 PRUNE VEGETATION AS NEEDED FOR CONSTRUCTION.
- 6 PROTECT VALVE CAN / METER BOX / CATCH BASIN / SIGN POST.
- 7 REMOVE EXISTING SIGN. SEE SIGNAGE AND STRIPING SHEETS C550 TO C553.
- 8 RELOCATE EXISTING SIGN. SEE SIGNAGE AND STRIPING SHEETS C550 TO C553.
- 9 ABANDON EXISTING PIPE. CAP OR PLUG ALL ENDS. SEE DETAIL 4, SHEET 404.
- 10 CAP AND ABANDON EXISTING WATER MAIN IN-PLACE UPON COMPLETION AND ACTIVATION OF NEW WATER MAIN. REMOVE EXISTING WATER MAIN AS REQUIRED FOR CONSTRUCTION. SEE DETAIL 4, SHEET C404.
- 11 DECOMMISSION EXISTING WATER VALVE BY CUTTING MAIN TO REMOVE VALVE AND CAP EACH SIDE. REMOVE VALVE BOX AND EXTENSION. SEE DETAIL 5, SHEET C404.

DEMOLITION AND EROSION CONTROL LEGEND

- AREA OF SOIL DISTURBANCE
- INLET PROTECTION
- DRAINAGE FLOW DIRECTION ARROW
- TREE PROTECTION FENCE
- REMOVE EXISTING STORM LINE
- REMOVE EXISTING WATERLINE

DEMOLITION AND EROSION CONTROL NOTES:

- 1. ADJUST EROSION CONTROL BMP AS NECESSARY DURING REMOVAL AND INSTALLATION OF CATCH BASINS.
- 2. ALL EXISTING VEGETATION IS TO REMAIN BUT PRUNING MAY BE REQUIRED TO ALLOW SPACE FOR CONSTRUCTION AND CONSTRUCTION EQUIPMENT.



NO.	DATE	BY	REVISIONS

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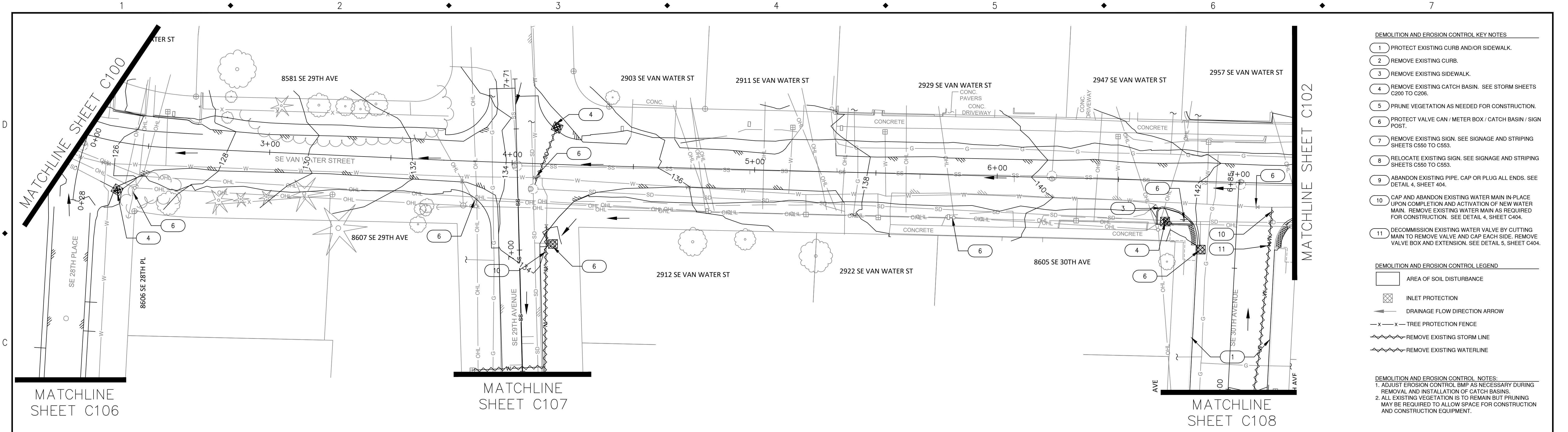


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**ARDENWALD NORTH IMPROVEMENTS**

28TH AVE & VAN WATER ST DEMOLITION & PROTECTION

PROJECT NO.:	W61	SHEET NO.:	43 OF 93	DATE:	9/13/2024	SHEET:	C100
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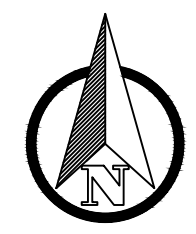


- DEMOLITION AND EROSION CONTROL KEY NOTES**
- 1 PROTECT EXISTING CURB AND/OR SIDEWALK.
  - 2 REMOVE EXISTING CURB.
  - 3 REMOVE EXISTING SIDEWALK.
  - 4 REMOVE EXISTING CATCH BASIN. SEE STORM SHEETS C200 TO C206.
  - 5 PRUNE VEGETATION AS NEEDED FOR CONSTRUCTION.
  - 6 PROTECT VALVE CAN / METER BOX / CATCH BASIN / SIGN POST.
  - 7 REMOVE EXISTING SIGN. SEE SIGNAGE AND STRIPING SHEETS C550 TO C553.
  - 8 RELOCATE EXISTING SIGN. SEE SIGNAGE AND STRIPING SHEETS C550 TO C553.
  - 9 ABANDON EXISTING PIPE. CAP OR PLUG ALL ENDS. SEE DETAIL 4, SHEET 404.
  - 10 CAP AND ABANDON EXISTING WATER MAIN IN-PLACE UPON COMPLETION AND ACTIVATION OF NEW WATER MAIN. REMOVE EXISTING WATER MAIN AS REQUIRED FOR CONSTRUCTION. SEE DETAIL 4, SHEET C404.
  - 11 DECOMMISSION EXISTING WATER VALVE BY CUTTING MAIN TO REMOVE VALVE AND CAP EACH SIDE. REMOVE VALVE BOX AND EXTENSION. SEE DETAIL 5, SHEET C404.

- DEMOLITION AND EROSION CONTROL LEGEND**
- AREA OF SOIL DISTURBANCE
  - INLET PROTECTION
  - DRAINAGE FLOW DIRECTION ARROW
  - TREE PROTECTION FENCE
  - REMOVE EXISTING STORM LINE
  - REMOVE EXISTING WATERLINE

- DEMOLITION AND EROSION CONTROL NOTES:**
1. ADJUST EROSION CONTROL BMP AS NECESSARY DURING REMOVAL AND INSTALLATION OF CATCH BASINS.
  2. ALL EXISTING VEGETATION IS TO REMAIN BUT PRUNING MAY BE REQUIRED TO ALLOW SPACE FOR CONSTRUCTION AND CONSTRUCTION EQUIPMENT.

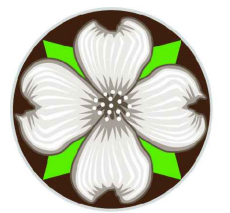
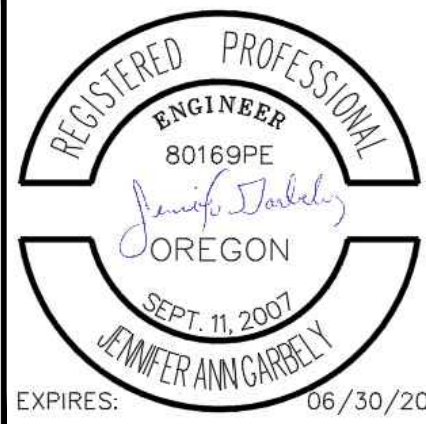
VAN WATER STREET  
STA 2+00 TO STA 7+00



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NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
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JAG CHECKED	9/16/2024	DATE
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MILWAUKIE, OR 97222

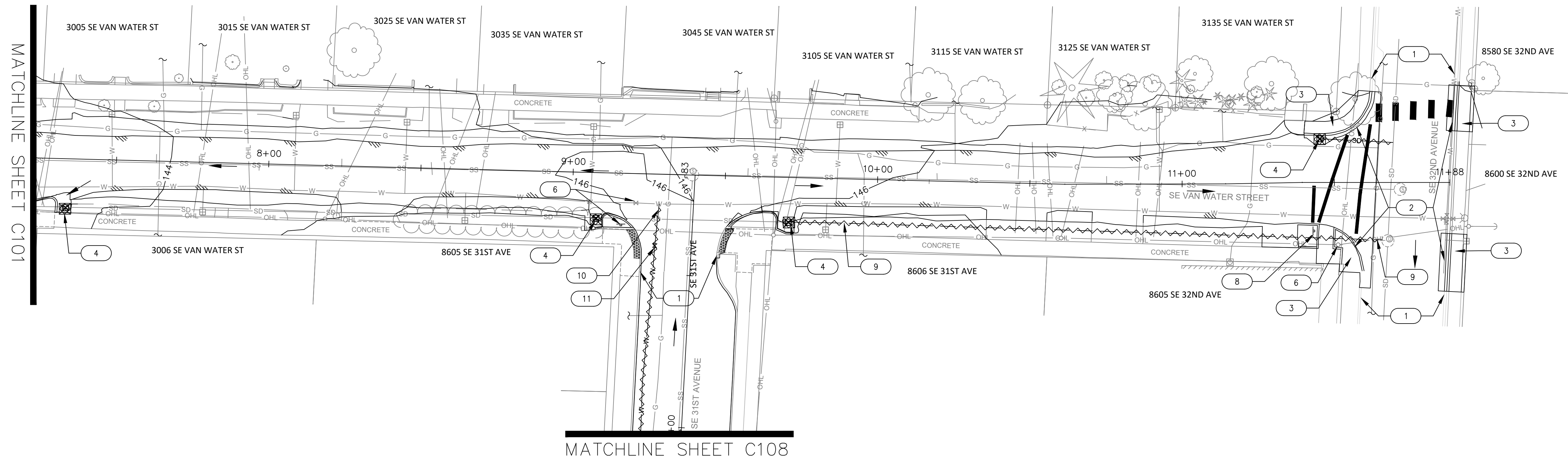
PHONE: 503-786-7600  
FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**

**VAN WATER ST DEMOLITION & PROTECTION**

STA 2+00 TO STA 7+00

PROJECT NO.:	W61	SHEET NO.:	44 OF 93	DATE:	9/13/2024	SHEET:	C101
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DEMOLITION AND EROSION CONTROL KEY NOTES

- 1 PROTECT EXISTING CURB AND/OR SIDEWALK.
- 2 REMOVE EXISTING CURB.
- 3 REMOVE EXISTING SIDEWALK.
- 4 REMOVE EXISTING CATCH BASIN. SEE STORM SHEETS C200 TO C206.
- 5 PRUNE VEGETATION AS NEEDED FOR CONSTRUCTION.
- 6 PROTECT VALVE CAN / METER BOX / CATCH BASIN / SIGN POST.
- 7 REMOVE EXISTING SIGN. SEE SIGNAGE AND STRIPING SHEETS C550 TO C553.
- 8 RELOCATE EXISTING SIGN. SEE SIGNAGE AND STRIPING SHEETS C550 TO C553.
- 9 ABANDON EXISTING PIPE. CAP OR PLUG ALL ENDS. SEE DETAIL 4, SHEET 404.
- 10 CAP AND ABANDON EXISTING WATER MAIN IN-PLACE UPON COMPLETION AND ACTIVATION OF NEW WATER MAIN. REMOVE EXISTING WATER MAIN AS REQUIRED FOR CONSTRUCTION. SEE DETAIL 4, SHEET C404.
- 11 DECOMMISSION EXISTING WATER VALVE BY CUTTING MAIN TO REMOVE VALVE AND CAP EACH SIDE. REMOVE VALVE BOX AND EXTENSION. SEE DETAIL 5, SHEET C404.

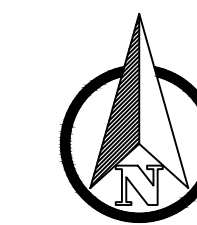
DEMOLITION AND EROSION CONTROL LEGEND

- AREA OF SOIL DISTURBANCE
- INLET PROTECTION
- DRAINAGE FLOW DIRECTION ARROW
- TREE PROTECTION FENCE
- REMOVE EXISTING STORM LINE
- REMOVE EXISTING WATERLINE

DEMOLITION AND EROSION CONTROL NOTES

- 1. ADJUST EROSION CONTROL BMP AS NECESSARY DURING REMOVAL AND INSTALLATION OF CATCH BASINS.
- 2. ALL EXISTING VEGETATION IS TO REMAIN BUT PRUNING MAY BE REQUIRED TO ALLOW SPACE FOR CONSTRUCTION AND CONSTRUCTION EQUIPMENT.

VAN WATER STREET  
STA 7+00 TO STA 11+65



SCALE  
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NO.	DATE	BY	REVISIONS

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JAG CHECKED	9/16/2024	DATE
APPROVED		DATE



**CITY OF MILWAUKIE**

10501 SE MAIN STREET  
MILWAUKIE, OR 97222

PHONE: 503-786-7600  
FAX: 503-774-8236

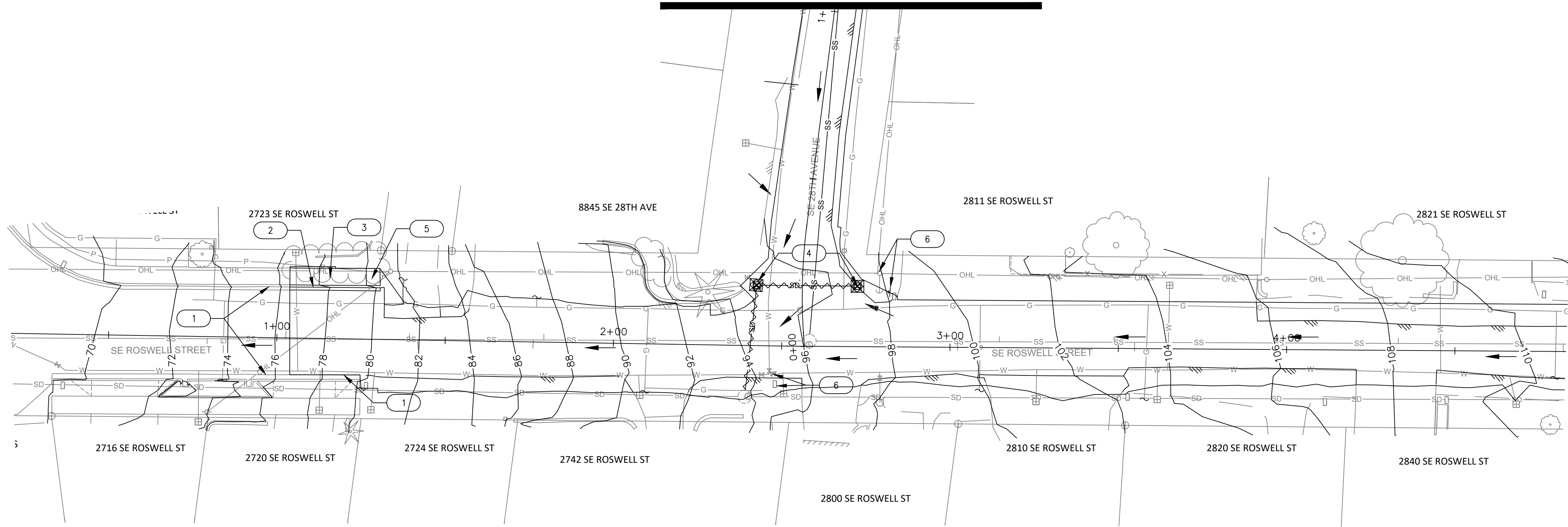
**ARDENWALD NORTH IMPROVEMENTS**

VAN WATER ST DEMOLITION & PROTECTION

STA 7+00 TO 11+65

PROJECT NO.: W61    SHEET NO.: 45 OF 93    DATE: 9/13/2024    SHEET: C102

MATCHLINE SHEET C106



ROSWELL STREET  
STA 0+00 TO STA 4+50

MATCHLINE SHEET C104

DEMOLITION AND EROSION CONTROL KEY NOTES

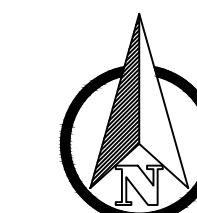
- 1 PROTECT EXISTING CURB AND/OR SIDEWALK.
- 2 REMOVE EXISTING CURB.
- 3 REMOVE EXISTING SIDEWALK.
- 4 REMOVE EXISTING CATCH BASIN. SEE STORM SHEETS C200 TO C206.
- 5 PRUNE VEGETATION AS NEEDED FOR CONSTRUCTION.
- 6 PROTECT VALVE CAN / METER BOX / CATCH BASIN / SIGN POST.
- 7 REMOVE EXISTING SIGN. SEE SIGNAGE AND STRIPING SHEETS C550 TO C553.
- 8 RELOCATE EXISTING SIGN. SEE SIGNAGE AND STRIPING SHEETS C550 TO C553.
- 9 ABANDON EXISTING PIPE. CAP OR PLUG ALL ENDS. SEE DETAIL 4, SHEET 404.
- 10 CAP AND ABANDON EXISTING WATER MAIN IN-PLACE UPON COMPLETION AND ACTIVATION OF NEW WATER MAIN. REMOVE EXISTING WATER MAIN AS REQUIRED FOR CONSTRUCTION. SEE DETAIL 4, SHEET C404.
- 11 DECOMMISSION EXISTING WATER VALVE BY CUTTING MAIN TO REMOVE VALVE AND CAP EACH SIDE. REMOVE VALVE BOX AND EXTENSION. SEE DETAIL 5, SHEET C404.

DEMOLITION AND EROSION CONTROL LEGEND

- AREA OF SOIL DISTURBANCE
- INLET PROTECTION
- DRAINAGE FLOW DIRECTION ARROW
- TREE PROTECTION FENCE
- REMOVE EXISTING STORM LINE
- REMOVE EXISTING WATERLINE

DEMOLITION AND EROSION CONTROL NOTES:

- 1. ADJUST EROSION CONTROL BMP AS NECESSARY DURING REMOVAL AND INSTALLATION OF CATCH BASINS.
- 2. ALL EXISTING VEGETATION IS TO REMAIN BUT PRUNING MAY BE REQUIRED TO ALLOW SPACE FOR CONSTRUCTION AND CONSTRUCTION EQUIPMENT.



SCALE  
  
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MILWAUKIE, OR 97222

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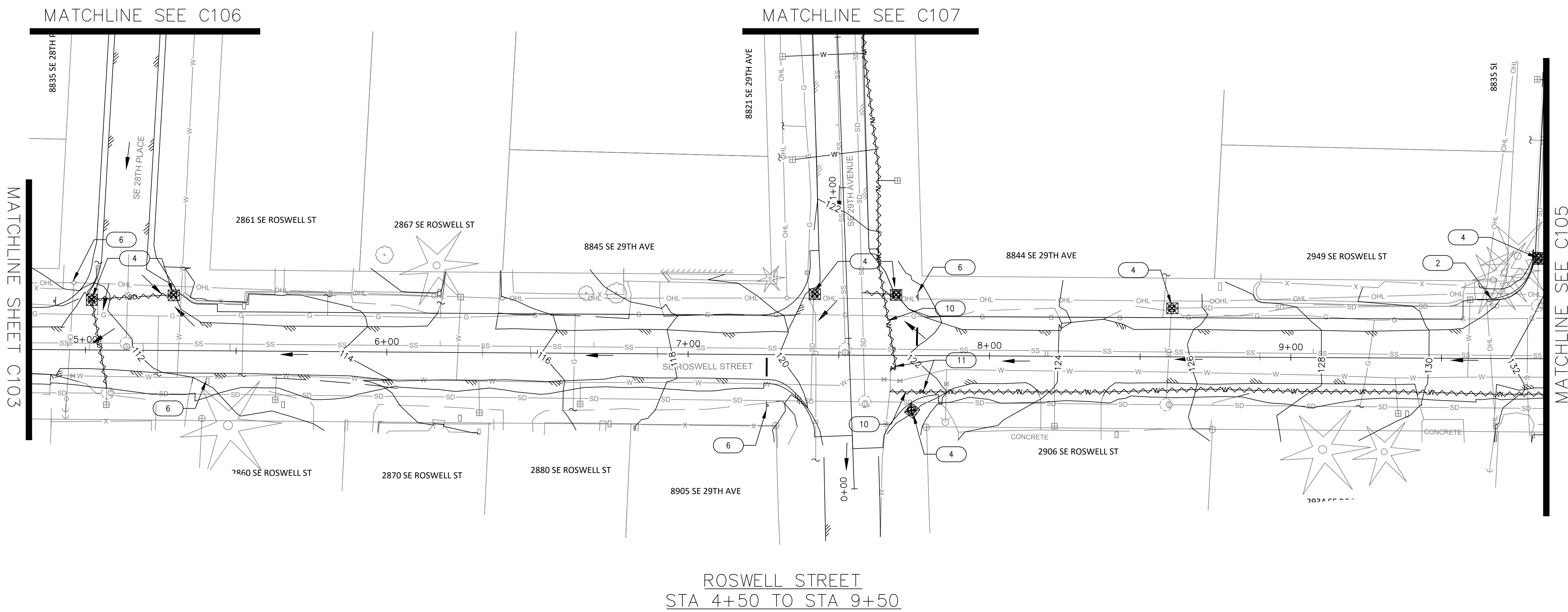
**ARDENWALD NORTH IMPROVEMENTS**

**ROSWELL ST DEMOLITION & PROTECTION**

STA 0+00 TO STA 4+50

PROJECT NO.:	W61	SHEET NO.:	46 OF 93	DATE:	9/13/2024	SHEET:	C103
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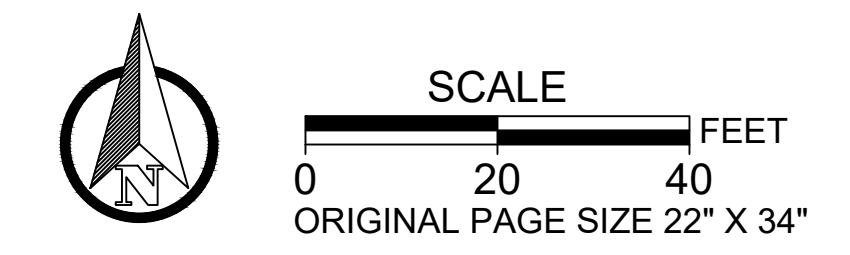
D  
C  
B  
A



- DEMOLITION AND EROSION CONTROL KEY NOTES**
- 1 PROTECT EXISTING CURB AND/OR SIDEWALK.
  - 2 REMOVE EXISTING CURB.
  - 3 REMOVE EXISTING SIDEWALK.
  - 4 REMOVE EXISTING CATCH BASIN. SEE STORM SHEETS C200 TO C206.
  - 5 PRUNE VEGETATION AS NEEDED FOR CONSTRUCTION.
  - 6 PROTECT VALVE CAN / METER BOX / CATCH BASIN / SIGN POST.
  - 7 REMOVE EXISTING SIGN. SEE SIGNAGE AND STRIPING SHEETS C550 TO C553.
  - 8 RELOCATE EXISTING SIGN. SEE SIGNAGE AND STRIPING SHEETS C550 TO C553.
  - 9 ABANDON EXISTING PIPE. CAP OR PLUG ALL ENDS. SEE DETAIL 4, SHEET 404.
  - 10 CAP AND ABANDON EXISTING WATER MAIN IN-PLACE UPON COMPLETION AND ACTIVATION OF NEW WATER MAIN. REMOVE EXISTING WATER MAIN AS REQUIRED FOR CONSTRUCTION. SEE DETAIL 4, SHEET C404.
  - 11 DECOMMISSION EXISTING WATER VALVE BY CUTTING MAIN TO REMOVE VALVE AND CAP EACH SIDE. REMOVE VALVE BOX AND EXTENSION. SEE DETAIL 5, SHEET C404.

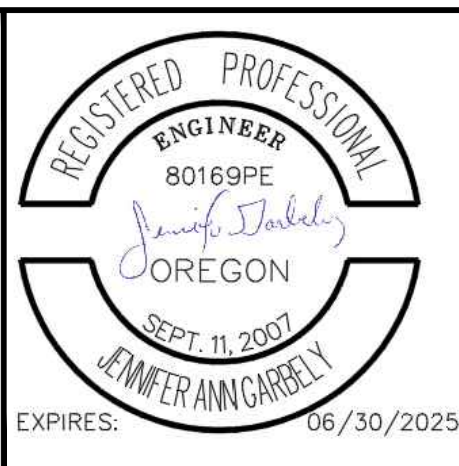
- DEMOLITION AND EROSION CONTROL LEGEND**
- [Symbol] AREA OF SOIL DISTURBANCE
  - [Symbol] INLET PROTECTION
  - [Symbol] DRAINAGE FLOW DIRECTION ARROW
  - [Symbol] TREE PROTECTION FENCE
  - [Symbol] REMOVE EXISTING STORM LINE
  - [Symbol] REMOVE EXISTING WATERLINE

- DEMOLITION AND EROSION CONTROL NOTES:**
1. ADJUST EROSION CONTROL BMP AS NECESSARY DURING REMOVAL AND INSTALLATION OF CATCH BASINS.
  2. ALL EXISTING VEGETATION IS TO REMAIN BUT PRUNING MAY BE REQUIRED TO ALLOW SPACE FOR CONSTRUCTION AND CONSTRUCTION EQUIPMENT.



NO.	DATE	BY	REVISIONS

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**CITY OF MILWAUKIE**

10501 SE MAIN STREET  
MILWAUKIE, OR 97222

PHONE: 503-786-7600  
FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**

**ROSWELL ST DEMOLITION & PROTECTION**

STA 4+50 TO STA 9+50

PROJECT NO.:	W61	SHEET NO.:	47 OF 93	DATE:	9/13/2024	SHEET:	C104
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DEMOLITION AND EROSION CONTROL KEY NOTES

- 1 PROTECT EXISTING CURB AND/OR SIDEWALK.
- 2 REMOVE EXISTING CURB.
- 3 REMOVE EXISTING SIDEWALK.
- 4 REMOVE EXISTING CATCH BASIN. SEE STORM SHEETS C200 TO C206.
- 5 PRUNE VEGETATION AS NEEDED FOR CONSTRUCTION.
- 6 PROTECT VALVE CAN / METER BOX / CATCH BASIN / SIGN POST.
- 7 REMOVE EXISTING SIGN. SEE SIGNAGE AND STRIPING SHEETS C550 TO C553.
- 8 RELOCATE EXISTING SIGN. SEE SIGNAGE AND STRIPING SHEETS C550 TO C553.
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- 10 CAP AND ABANDON EXISTING WATER MAIN IN-PLACE UPON COMPLETION AND ACTIVATION OF NEW WATER MAIN. REMOVE EXISTING WATER MAIN AS REQUIRED FOR CONSTRUCTION. SEE DETAIL 4, SHEET C404.
- 11 DECOMMISSION EXISTING WATER VALVE BY CUTTING MAIN TO REMOVE VALVE AND CAP EACH SIDE. REMOVE VALVE BOX AND EXTENSION. SEE DETAIL 5, SHEET C404.

DEMOLITION AND EROSION CONTROL LEGEND

- [Symbol] AREA OF SOIL DISTURBANCE
- [Symbol] INLET PROTECTION
- [Symbol] DRAINAGE FLOW DIRECTION ARROW
- x-x- TREE PROTECTION FENCE
- [Symbol] REMOVE EXISTING STORM LINE
- [Symbol] REMOVE EXISTING WATERLINE

DEMOLITION AND EROSION CONTROL NOTES:

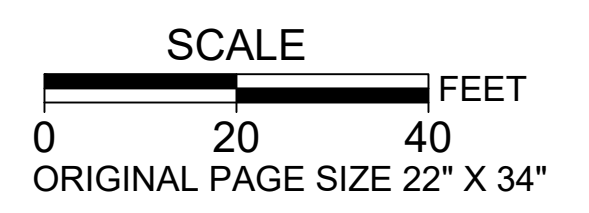
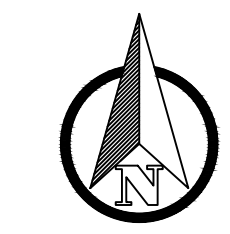
- 1. ADJUST EROSION CONTROL BMP AS NECESSARY DURING REMOVAL AND INSTALLATION OF CATCH BASINS.
- 2. ALL EXISTING VEGETATION IS TO REMAIN BUT PRUNING MAY BE REQUIRED TO ALLOW SPACE FOR CONSTRUCTION AND CONSTRUCTION EQUIPMENT.

MATCHLINE SHEET C108

MATCHLINE SHEET C108

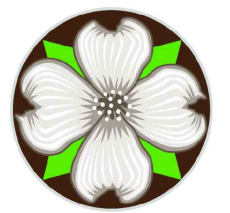
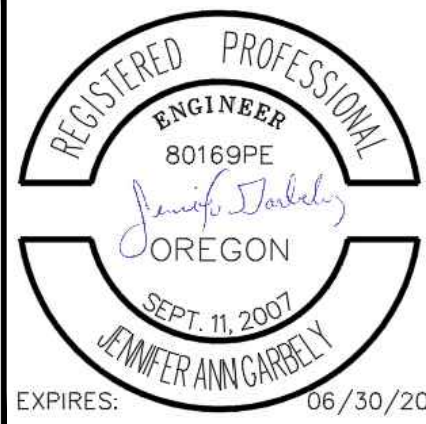
MATCHLINE SHEET C104

ROSWELL STREET  
STA 9+50 TO STA 14+50



NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
JRN DRAFTED	9/13/2024	DATE
JAG CHECKED	9/16/2024	DATE
APPROVED		DATE



**CITY OF MILWAUKIE**

10501 SE MAIN STREET  
MILWAUKIE, OR 97222  
PHONE: 503-786-7600  
FAX: 503-774-8236

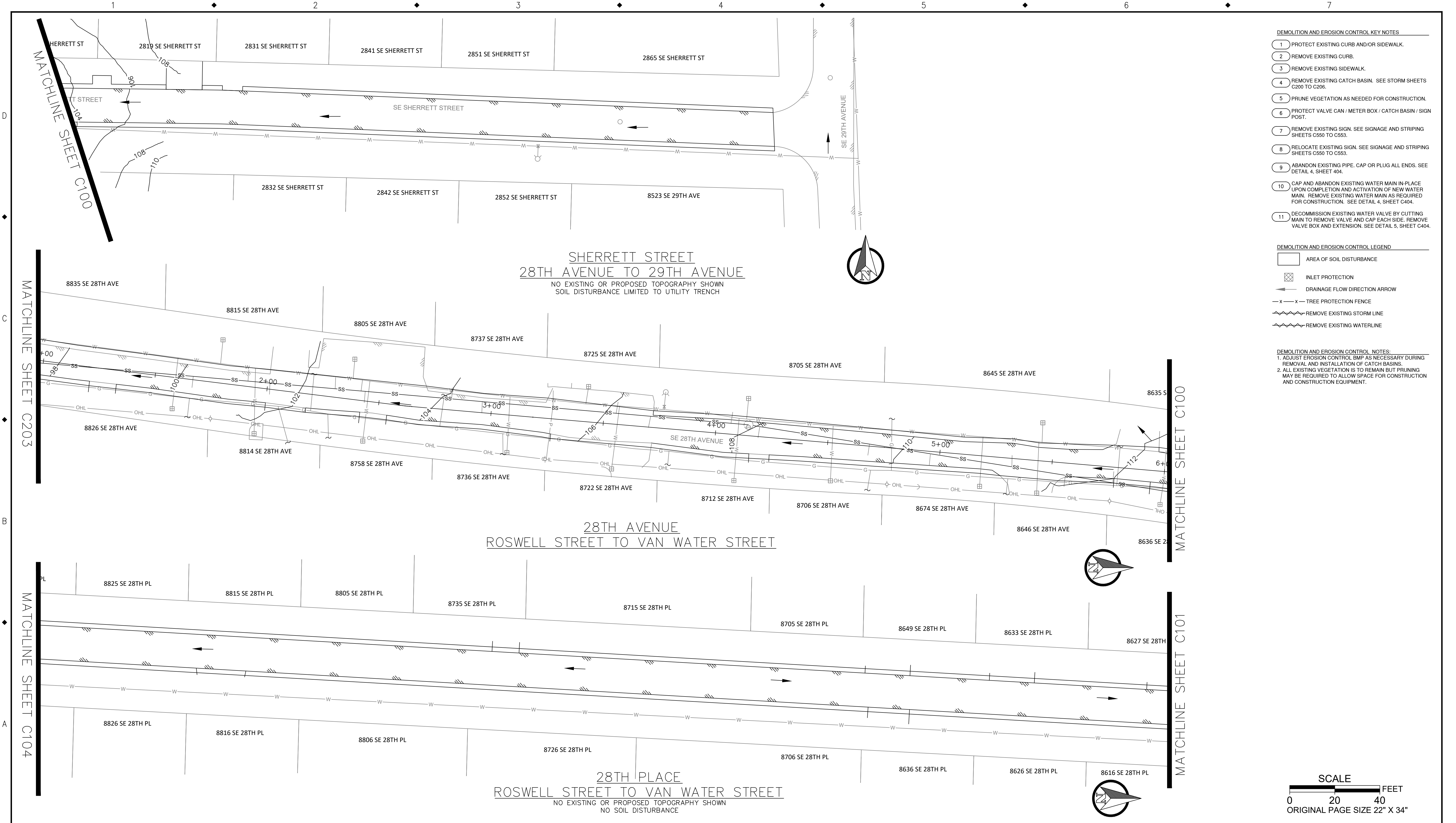
ARDENWALD NORTH IMPROVEMENTS

ROSWELL ST DEMOLITION & PROTECTION

STA 9+50 TO STA 14+50

PROJECT NO.:	W61	SHEET NO.:	48 OF 93	DATE:	9/13/2024	SHEET:	C105
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APPROVED		DATE



**CITY OF MILWAUKIE**

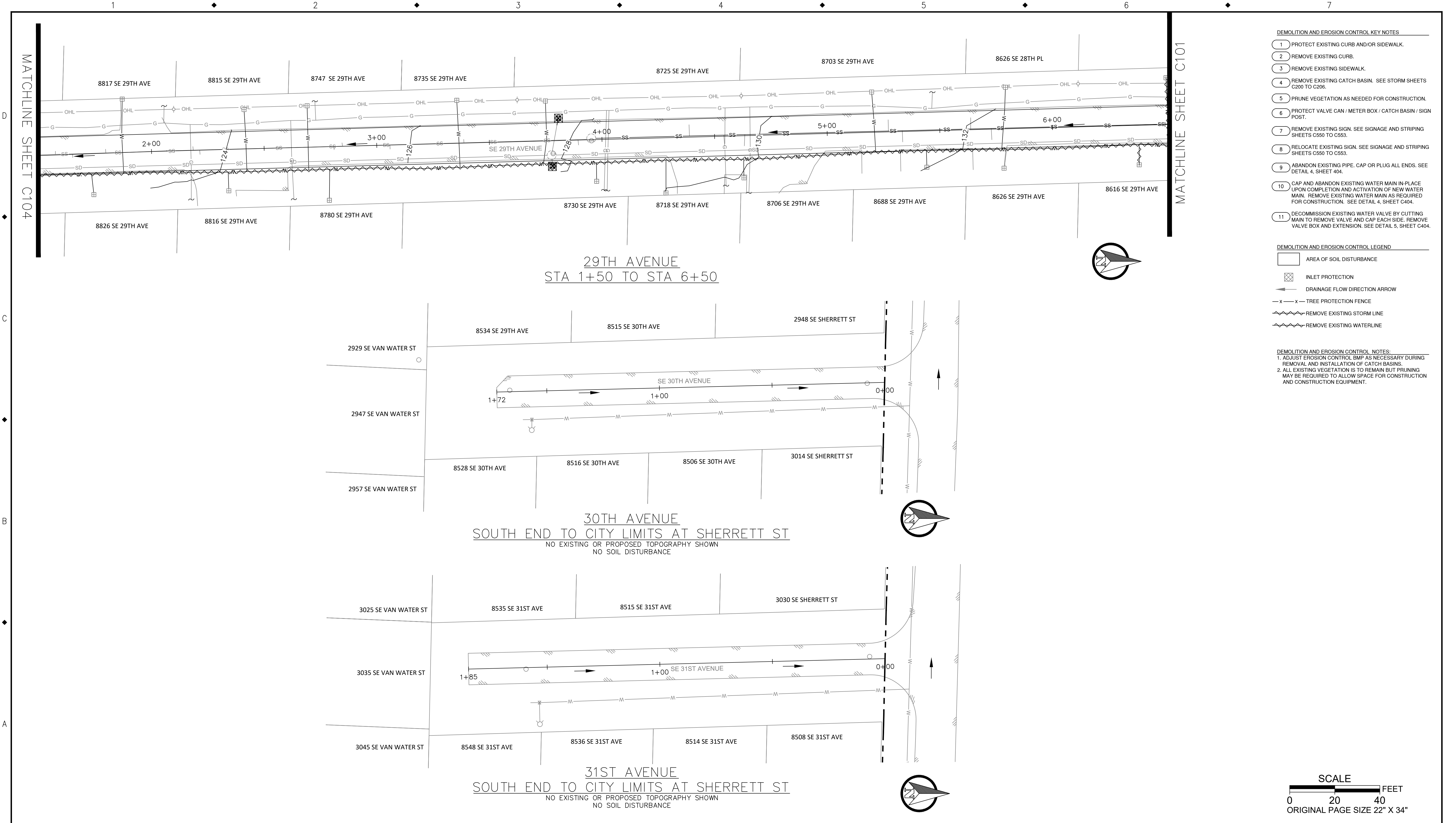
10501 SE MAIN STREET  
MILWAUKIE, OR 97222

PHONE: 503-786-7600  
FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**

SHERRETT ST, 28TH AVE, & 28TH PL DEMOLITION & PROTECTION

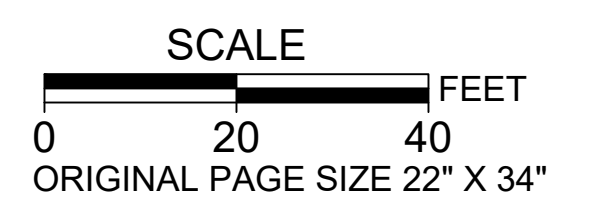
PROJECT NO.: W61    SHEET NO.: 49 OF 93    DATE: 9/13/2024    SHEET: C106



- DEMOLITION AND EROSION CONTROL KEY NOTES**
- 1 PROTECT EXISTING CURB AND/OR SIDEWALK.
  - 2 REMOVE EXISTING CURB.
  - 3 REMOVE EXISTING SIDEWALK.
  - 4 REMOVE EXISTING CATCH BASIN. SEE STORM SHEETS C200 TO C206.
  - 5 PRUNE VEGETATION AS NEEDED FOR CONSTRUCTION.
  - 6 PROTECT VALVE CAN / METER BOX / CATCH BASIN / SIGN POST.
  - 7 REMOVE EXISTING SIGN. SEE SIGNAGE AND STRIPING SHEETS C550 TO C553.
  - 8 RELOCATE EXISTING SIGN. SEE SIGNAGE AND STRIPING SHEETS C550 TO C553.
  - 9 ABANDON EXISTING PIPE. CAP OR PLUG ALL ENDS. SEE DETAIL 4, SHEET 404.
  - 10 CAP AND ABANDON EXISTING WATER MAIN IN-PLACE UPON COMPLETION AND ACTIVATION OF NEW WATER MAIN. REMOVE EXISTING WATER MAIN AS REQUIRED FOR CONSTRUCTION. SEE DETAIL 4, SHEET C404.
  - 11 DECOMMISSION EXISTING WATER VALVE BY CUTTING MAIN TO REMOVE VALVE AND CAP EACH SIDE. REMOVE VALVE BOX AND EXTENSION. SEE DETAIL 5, SHEET C404.

- DEMOLITION AND EROSION CONTROL LEGEND**
- AREA OF SOIL DISTURBANCE
  - INLET PROTECTION
  - DRAINAGE FLOW DIRECTION ARROW
  - TREE PROTECTION FENCE
  - REMOVE EXISTING STORM LINE
  - REMOVE EXISTING WATERLINE

- DEMOLITION AND EROSION CONTROL NOTES:**
1. ADJUST EROSION CONTROL BMP AS NECESSARY DURING REMOVAL AND INSTALLATION OF CATCH BASINS.
  2. ALL EXISTING VEGETATION IS TO REMAIN BUT PRUNING MAY BE REQUIRED TO ALLOW SPACE FOR CONSTRUCTION AND CONSTRUCTION EQUIPMENT.



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**CITY OF MILWAUKIE**

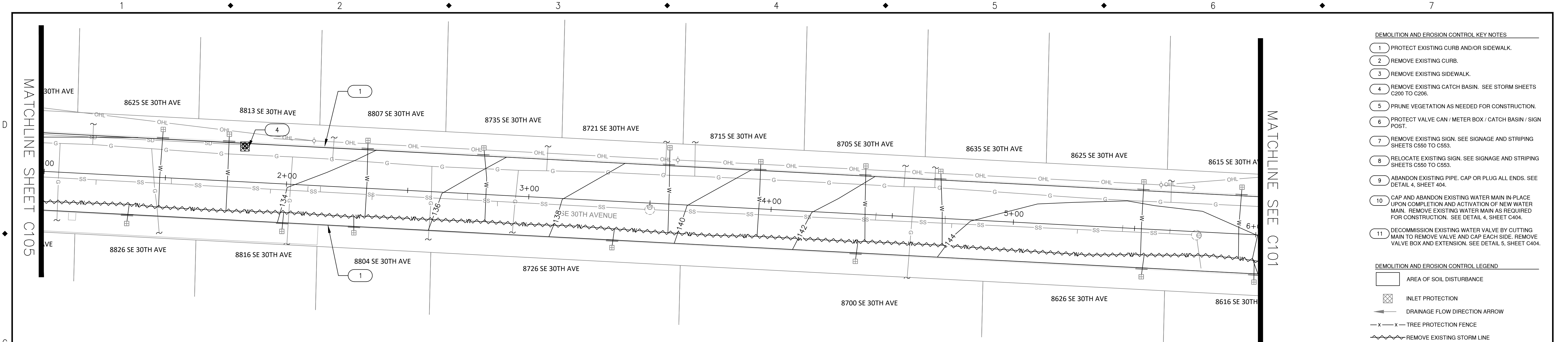
10501 SE MAIN STREET  
MILWAUKIE, OR 97222

PHONE: 503-786-7600  
FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**

29TH AVE, 30TH AVE, & 31ST AVE DEMOLITION & PROTECTION

PROJECT NO.: W61    SHEET NO.: 50 OF 93    DATE: 9/13/2024    SHEET: C107

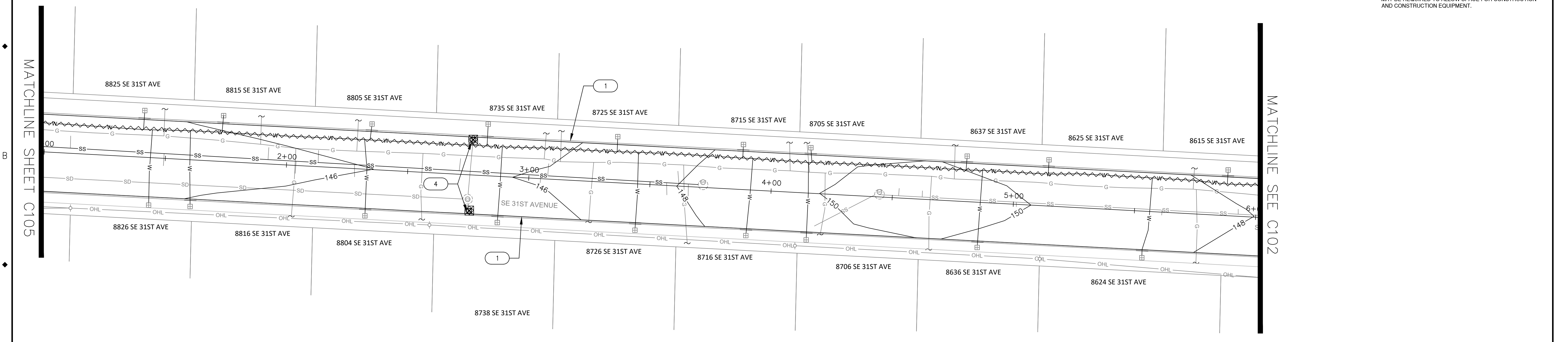


30TH AVENUE  
STA 1+00 TO STA 6+00

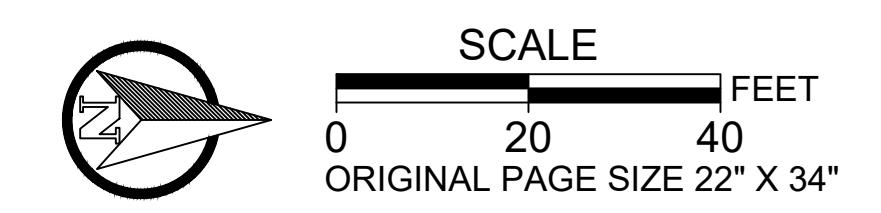
- DEMOLITION AND EROSION CONTROL KEY NOTES**
- 1 PROTECT EXISTING CURB AND/OR SIDEWALK.
  - 2 REMOVE EXISTING CURB.
  - 3 REMOVE EXISTING SIDEWALK.
  - 4 REMOVE EXISTING CATCH BASIN. SEE STORM SHEETS C200 TO C206.
  - 5 PRUNE VEGETATION AS NEEDED FOR CONSTRUCTION.
  - 6 PROTECT VALVE CAN / METER BOX / CATCH BASIN / SIGN POST.
  - 7 REMOVE EXISTING SIGN. SEE SIGNAGE AND STRIPING SHEETS C550 TO C553.
  - 8 RELOCATE EXISTING SIGN. SEE SIGNAGE AND STRIPING SHEETS C550 TO C553.
  - 9 ABANDON EXISTING PIPE. CAP OR PLUG ALL ENDS. SEE DETAIL 4, SHEET 404.
  - 10 CAP AND ABANDON EXISTING WATER MAIN IN-PLACE UPON COMPLETION AND ACTIVATION OF NEW WATER MAIN. REMOVE EXISTING WATER MAIN AS REQUIRED FOR CONSTRUCTION. SEE DETAIL 4, SHEET C404.
  - 11 DECOMMISSION EXISTING WATER VALVE BY CUTTING MAIN TO REMOVE VALVE AND CAP EACH SIDE. REMOVE VALVE BOX AND EXTENSION. SEE DETAIL 5, SHEET C404.

- DEMOLITION AND EROSION CONTROL LEGEND**
- AREA OF SOIL DISTURBANCE
  - INLET PROTECTION
  - DRAINAGE FLOW DIRECTION ARROW
  - TREE PROTECTION FENCE
  - REMOVE EXISTING STORM LINE
  - REMOVE EXISTING WATERLINE

- DEMOLITION AND EROSION CONTROL NOTES:**
1. ADJUST EROSION CONTROL BMP AS NECESSARY DURING REMOVAL AND INSTALLATION OF CATCH BASINS.
  2. ALL EXISTING VEGETATION IS TO REMAIN BUT PRUNING MAY BE REQUIRED TO ALLOW SPACE FOR CONSTRUCTION AND CONSTRUCTION EQUIPMENT.



31ST AVENUE  
STA 1+00 TO STA 6+00



NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
JRN DRAFTED	9/13/2024	DATE
JAG CHECKED	9/16/2024	DATE
APPROVED		DATE



**CITY OF MILWAUKIE**

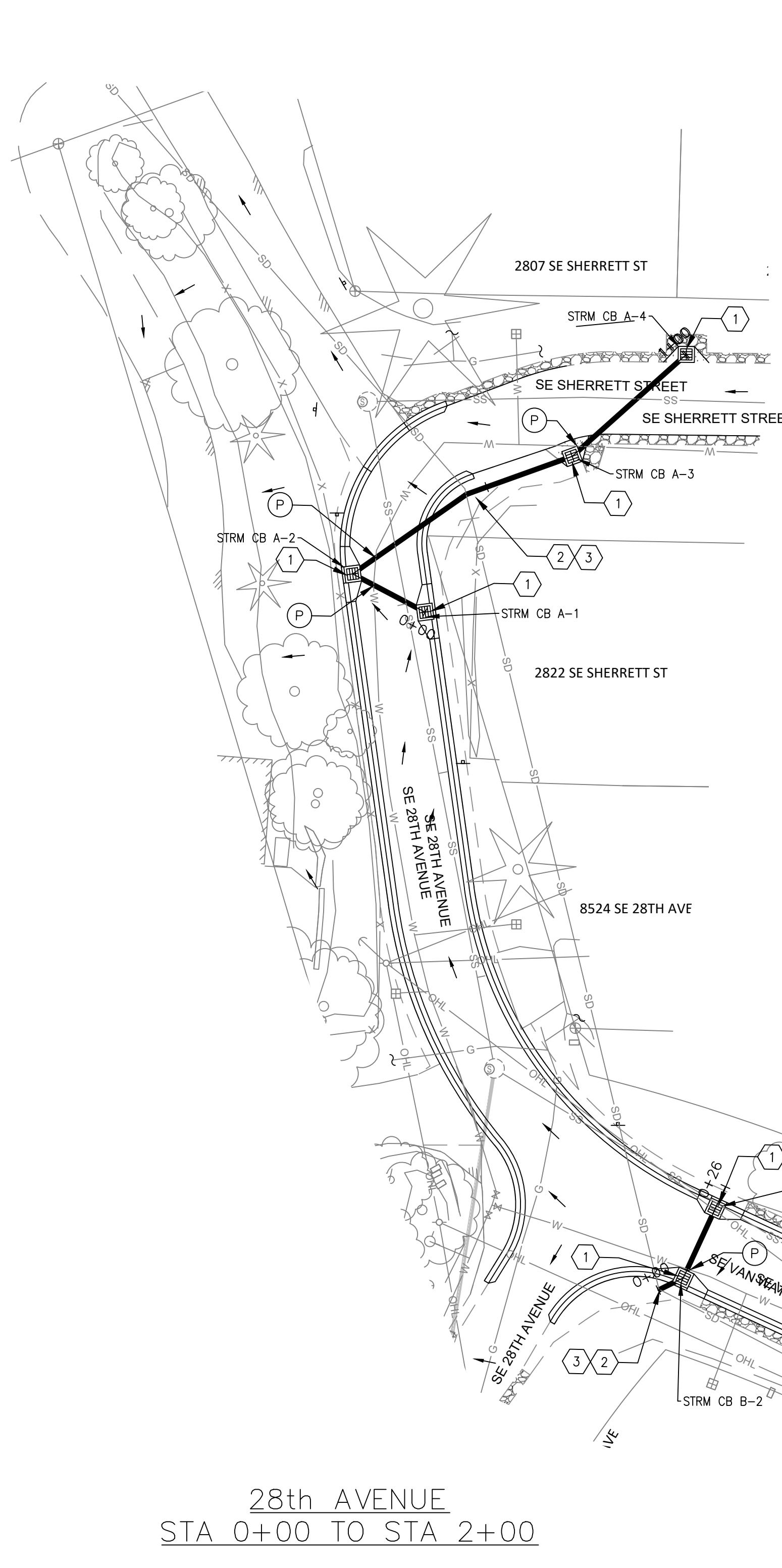
10501 SE MAIN STREET  
MILWAUKIE, OR 97222

PHONE: 503-786-7600  
FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**

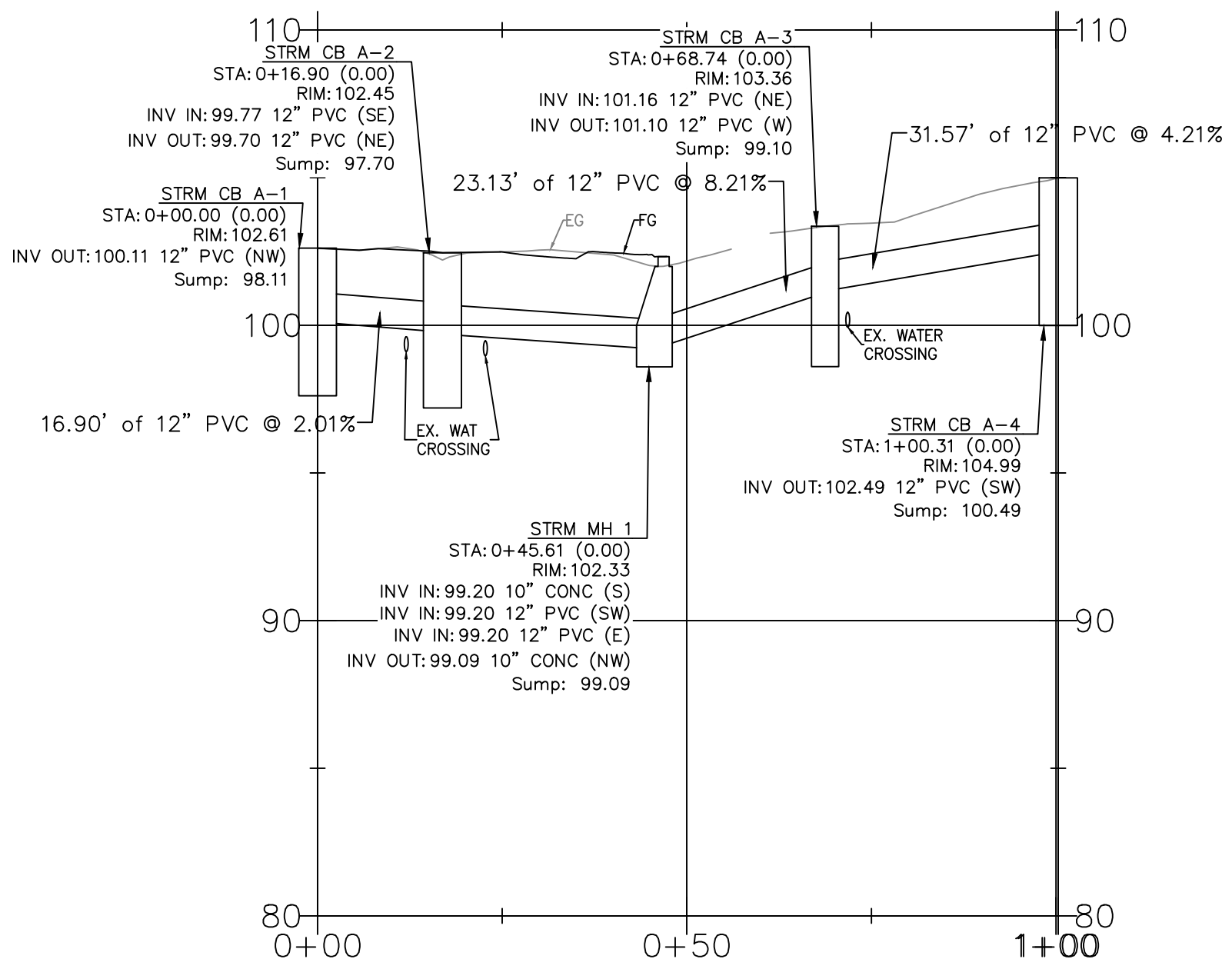
30TH AVE & 31ST AVE DEMOLITION & PROTECTION

PROJECT NO.: W61    SHEET NO.: 51 OF 93    DATE: 9/13/2024    SHEET: C108

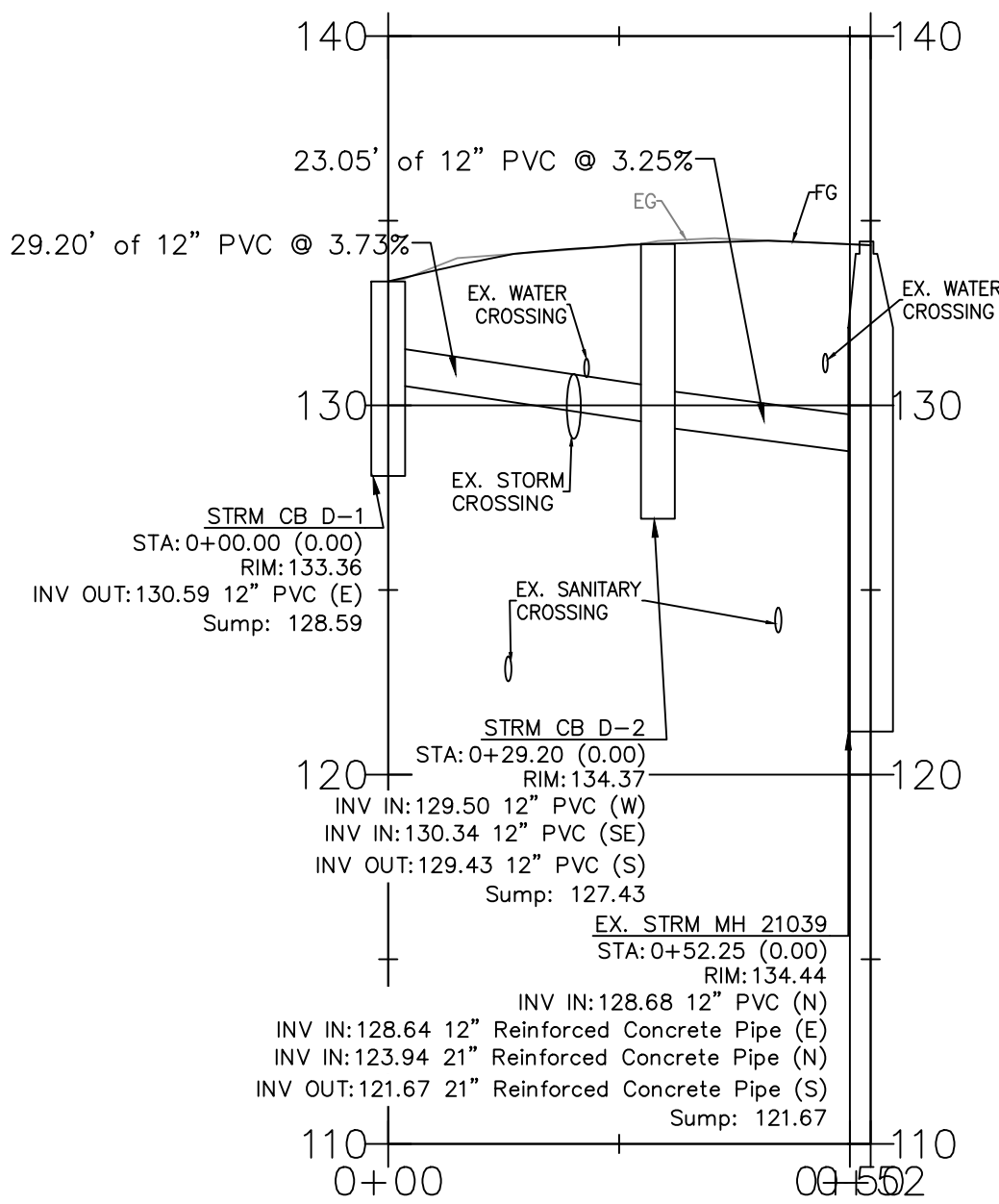


28th AVENUE  
STA 0+00 TO STA 2+00

VAN WATER STREET  
STA 0+00 TO STA 2+00



STRM CB A  
STA 0+00 TO STA 1+00  
HOR: 1" = 20' ; VERT: 1" = 5'



STRM CB B  
STA 0+00 TO STA 0+52  
HOR: 1" = 20' ; VERT: 1" = 5'

STORMWATER KEY NOTES

1. INSTALL G-2 CATCHBASIN. SEE CITY OF MILWAUKIE DRAWINGS 201, 204, 205 SHEET C208 AND OREGON STANDARD DRAWING RD 363, SHEET C209.
2. INSTALL MANHOLE. SEE CITY OF MILWAUKIE DRAWING 208 AND OREGON STANDARD DRAWING RD 336, SHEET C208 AND OREGON STANDARD DRAWINGS RD 342, RD 344, AND RD 345 SHEET C209.
3. CONNECT PIPE TO EXISTING STRUCTURE.
4. INSTALL CG-3 CURB INLET. SEE OREGON STANDARD DRAWINGS RD 371 AND RD 372, SHEET C210.
5. CONNECT EXISTING PIPE TO NEW STRUCTURE.
- P. CONTRACTOR SHALL POTHOLE TO VERIFY LOCATION, SIZE, AND DEPTH OF EXISTING UTILITIES.

STORMWATER NOTES:

1. ALL HIGH-DENSITY POLYETHYLENE (HDPE) AND PVC PIPE SHALL BE DEFLECTION TESTED NO LESS THAN 30-DAYS AFTER THE TRENCH BACKFILL AND COMPACTION HAS BEEN COMPLETED. THE TEST SHALL BE CONDUCTED BY PULLING AN APPROVED SOLID POINTED 95% OF AN INSIDE DIAMETER MANDREL THROUGH THE PIPELINE. CITY INSPECTOR SHALL BE PRESENT DURING TESTING.
2. MANHOLES SHALL BE PRECAST CONCRETE SECTIONS WITH MINIMUM INSIDE DIAMETER OF 48-INCHES, CONFORMING TO THE REQUIREMENTS OF ASTM C-478, EXCEPT AS NOTED ON THE PLANS.

UTILITY LEGEND

- EXISTING SANITARY MANHOLE
- SANITARY MANHOLE
- EXISTING STORM MANHOLE
- ⊙ STORM MANHOLE
- EXISTING SANITARY LINE
- SANITARY LINE
- EXISTING STORM LINE
- STORM LINE
- EXISTING WATER LINE
- WATER LINE
- CATCH BASIN
- ⊗ WATER VALVE

STRUCTURE TABLE

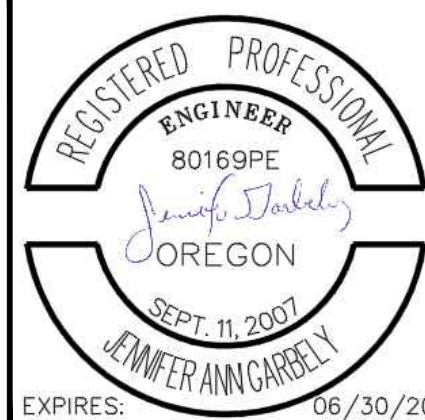
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STRM CB A-4	G-2 CB	104.99'	102.49	12" PVC	100.49	31.57 LF	1+00.31 0.00	SDLN-A
STRM CB B-1	G-2 CB	113.33'	111.27	12" PVC	109.27	15.72 LF	0+21.48 0.00	SDLN-B
STRM CB B-2	G-2 CB	113.33'	111.04	12" PVC	111.04	5.76 LF	0+05.76 0.00 L	SDLN-B
STRM CB A-1	G-2 CB	102.61'	100.11	12" PVC	98.11	16.90 LF	0+00.00 0.00	SDLN-A
STRM CB A-2	G-2 CB	102.45'	99.70	12" PVC	97.70	28.70 LF	0+16.90 0.00	SDLN-A
STRM CB A-3	G-2 CB	103.36'	101.10	12" PVC	99.10	23.13 LF	0+68.74 0.00	SDLN-A



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ORIGINAL PAGE SIZE 22" X 34"

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APPROVED DATE



CITY OF MILWAUKIE

10501 SE MAIN STREET  
MILWAUKIE, OR 97222

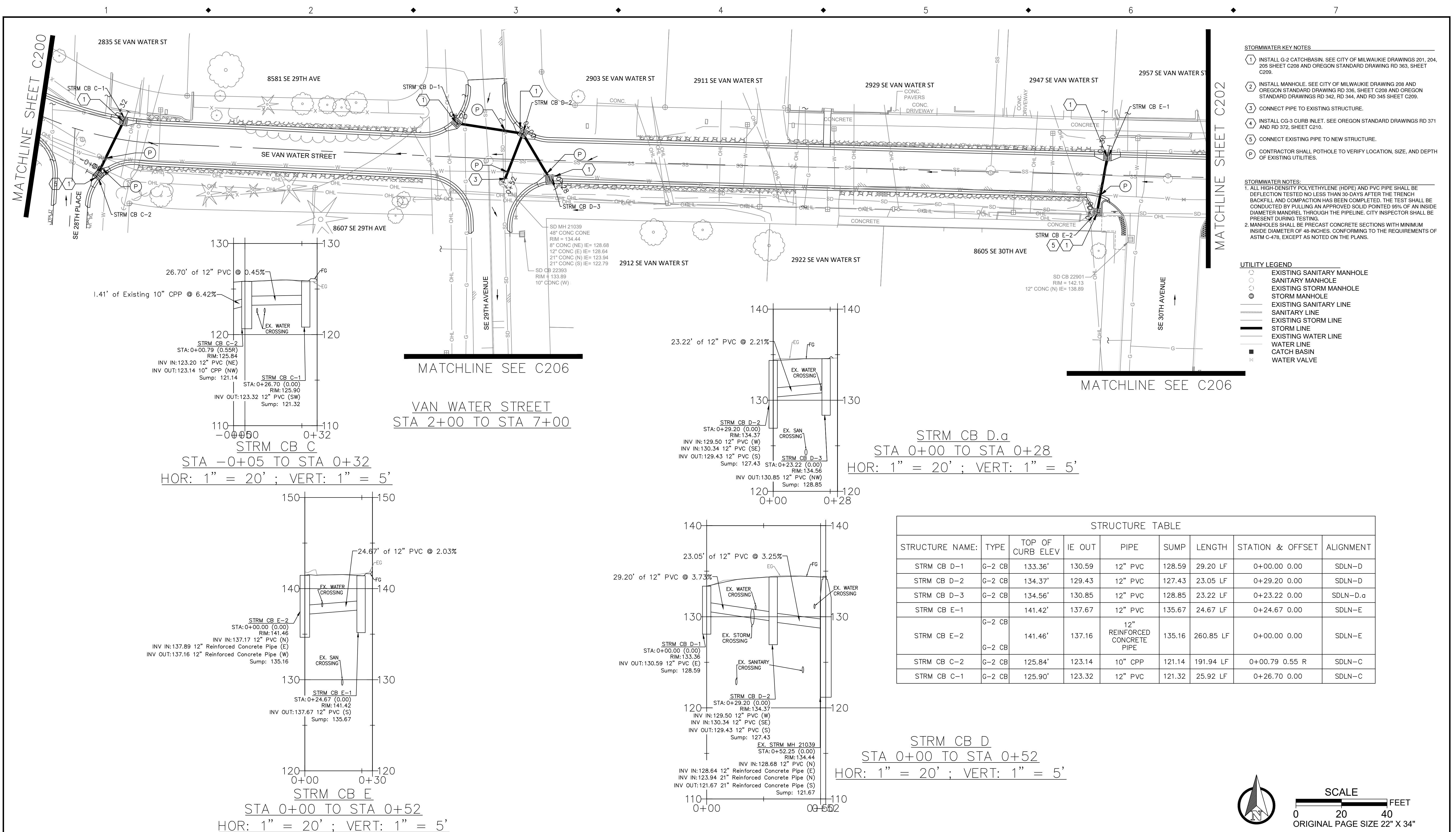
PHONE: 503-786-7600  
FAX: 503-774-8236

ARDENWALD NORTH IMPROVEMENTS

STORMWATER CONSTRUCTION

28TH AVE

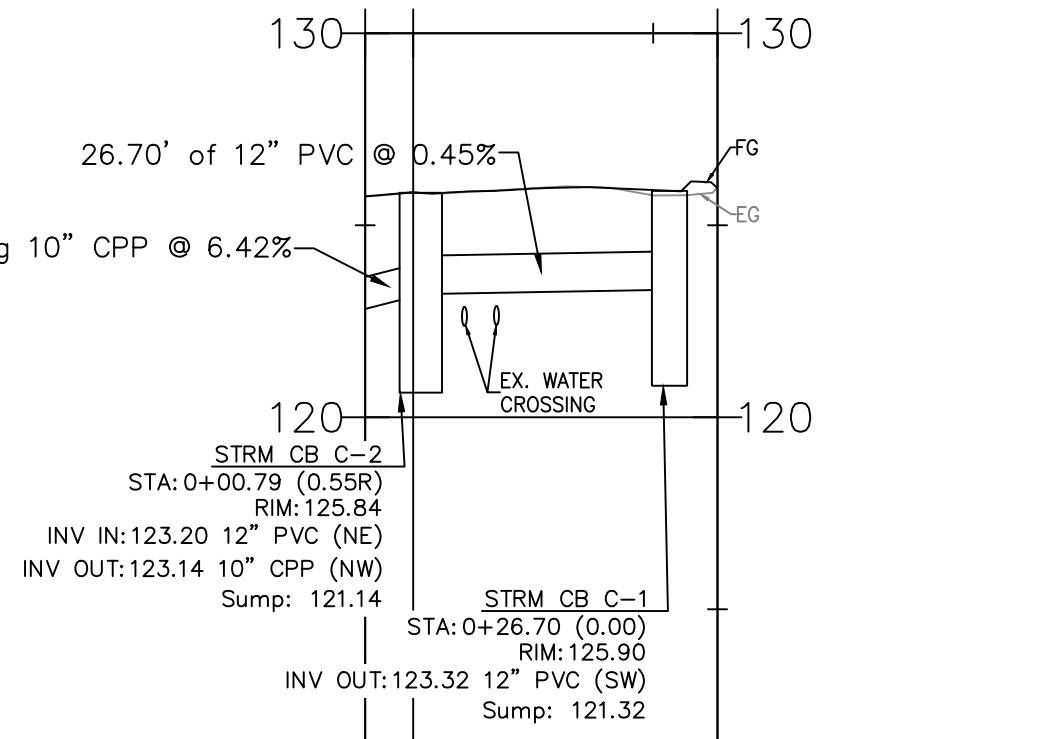
PROJECT NO.: W61 SHEET NO.: 52 OF 93 DATE: 9/13/2024 SHEET: C200



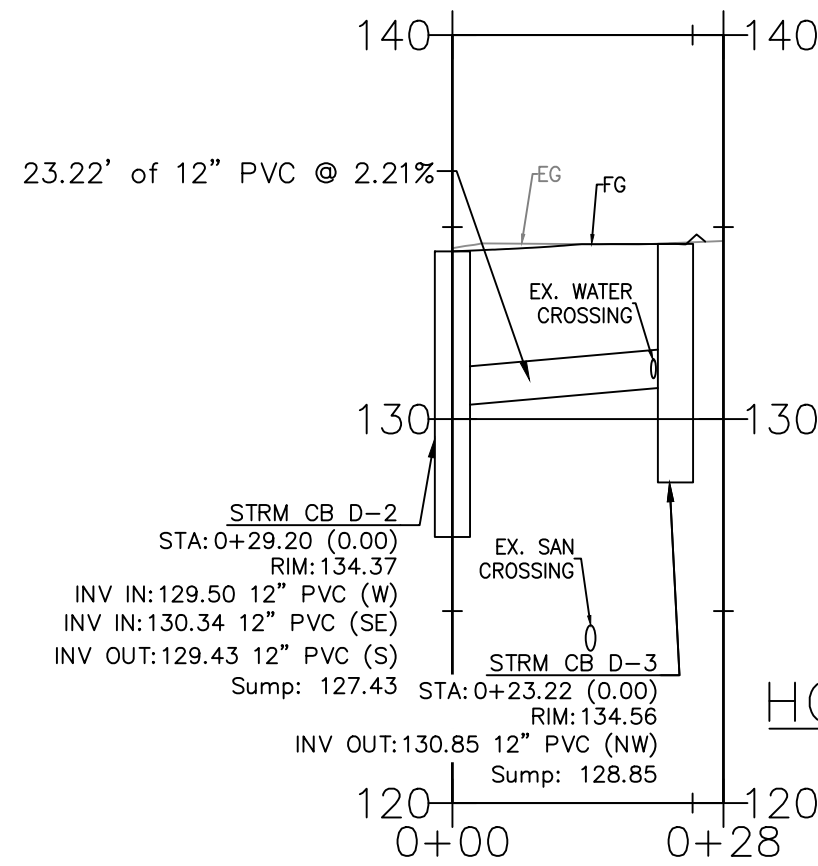
- STORMWATER KEY NOTES**
1. INSTALL G-2 CATCHBASIN. SEE CITY OF MILWAUKIE DRAWINGS 201, 204, 205 SHEET C208 AND OREGON STANDARD DRAWING RD 363, SHEET C209.
  2. INSTALL MANHOLE. SEE CITY OF MILWAUKIE DRAWING 208 AND OREGON STANDARD DRAWING RD 336, SHEET C208 AND OREGON STANDARD DRAWINGS RD 342, RD 344, AND RD 345 SHEET C209.
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  4. INSTALL CG-3 CURB INLET. SEE OREGON STANDARD DRAWINGS RD 371 AND RD 372, SHEET C210.
  5. CONNECT EXISTING PIPE TO NEW STRUCTURE.
  - P. CONTRACTOR SHALL POTHOLE TO VERIFY LOCATION, SIZE, AND DEPTH OF EXISTING UTILITIES.

- STORMWATER NOTES:**
1. ALL HIGH-DENSITY POLYETHYLENE (HDPE) AND PVC PIPE SHALL BE DEFLECTION TESTED NO LESS THAN 90-DAYS AFTER THE TRENCH BACKFILL AND COMPACTION HAS BEEN COMPLETED. THE TEST SHALL BE CONDUCTED BY PULLING AN APPROVED SOLID POINTED 95% OF AN INSIDE DIAMETER MANDREL THROUGH THE PIPELINE. CITY INSPECTOR SHALL BE PRESENT DURING TESTING.
  2. MANHOLES SHALL BE PRECAST CONCRETE SECTIONS WITH MINIMUM INSIDE DIAMETER OF 48-INCHES, CONFORMING TO THE REQUIREMENTS OF ASTM C-478, EXCEPT AS NOTED ON THE PLANS.

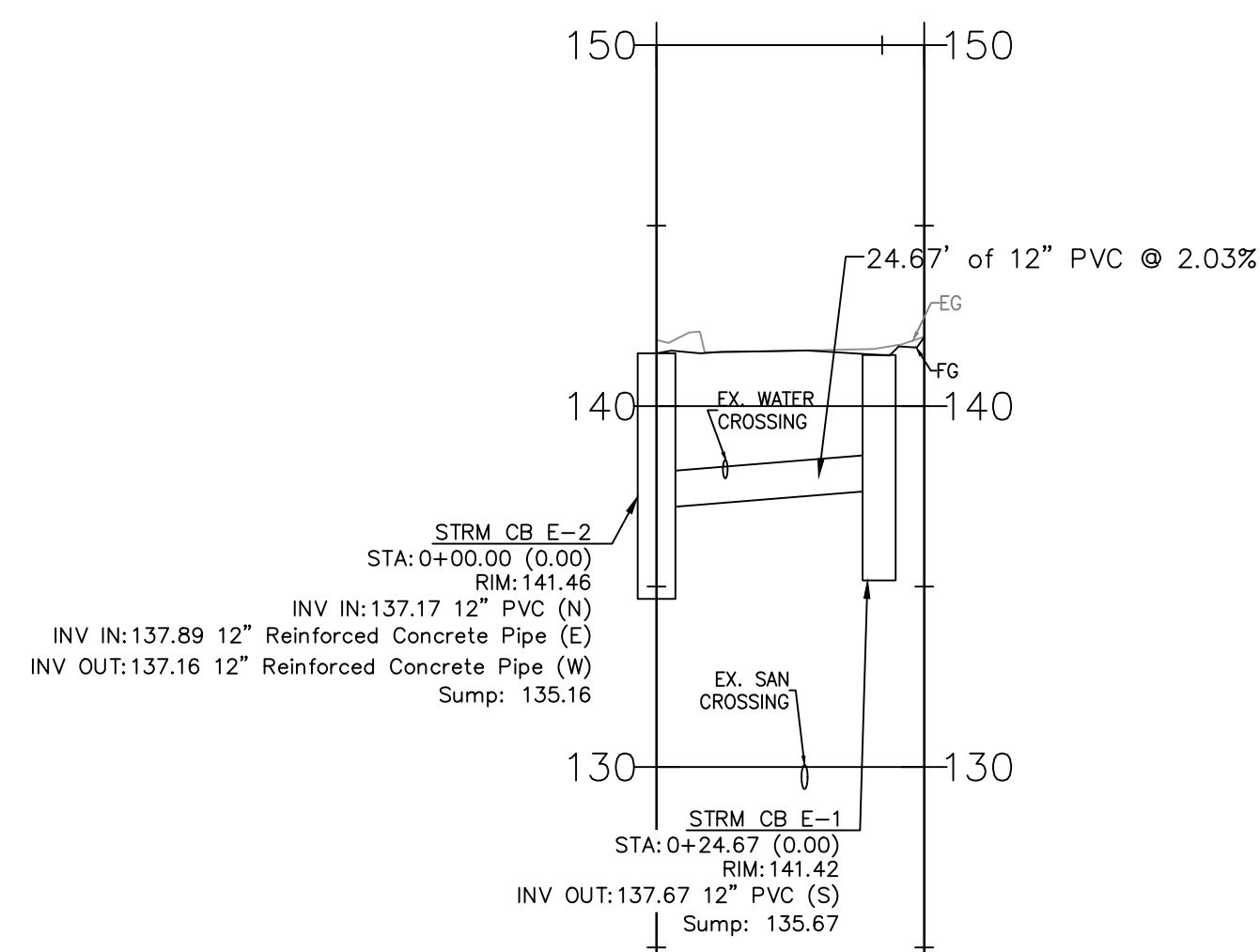
- UTILITY LEGEND**
- EXISTING SANITARY MANHOLE
  - SANITARY MANHOLE
  - EXISTING STORM MANHOLE
  - STORM MANHOLE
  - EXISTING SANITARY LINE
  - SANITARY LINE
  - EXISTING STORM LINE
  - STORM LINE
  - EXISTING WATER LINE
  - WATER LINE
  - CATCH BASIN
  - ✕ WATER VALVE



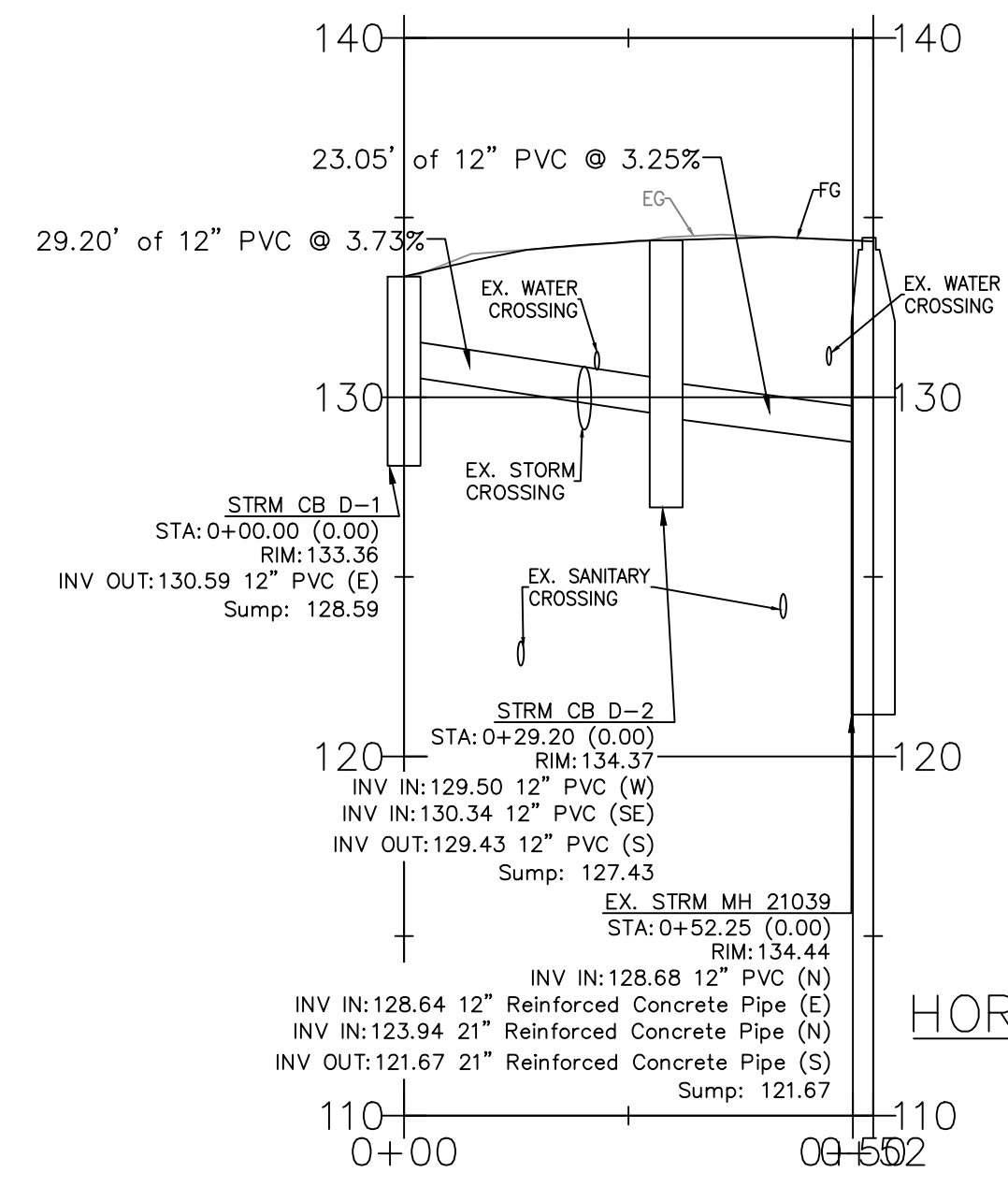
**STRM CB C**  
 STA -0+05 TO STA 0+32  
 HOR: 1" = 20' ; VERT: 1" = 5'



**STRM CB D.α**  
 STA 0+00 TO STA 0+28  
 HOR: 1" = 20' ; VERT: 1" = 5'

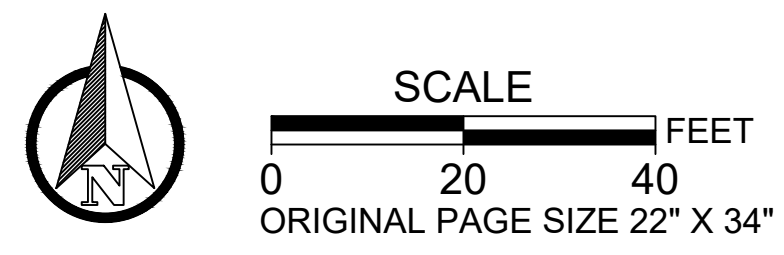


**STRM CB E**  
 STA 0+00 TO STA 0+52  
 HOR: 1" = 20' ; VERT: 1" = 5'



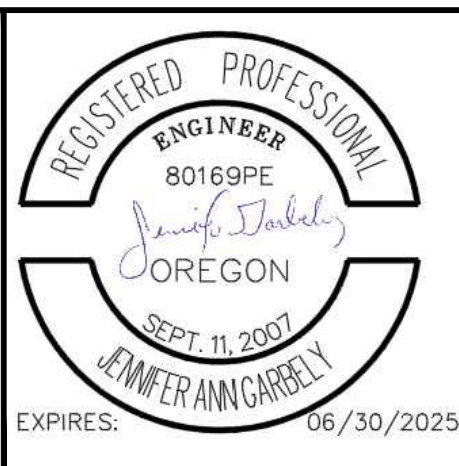
**STRM CB D**  
 STA 0+00 TO STA 0+52  
 HOR: 1" = 20' ; VERT: 1" = 5'

STRUCTURE TABLE								
STRUCTURE NAME:	TYPE	TOP OF CURB ELEV	IE OUT	PIPE	SUMP	LENGTH	STATION & OFFSET	ALIGNMENT
STRM CB D-1	G-2 CB	133.36'	130.59	12" PVC	128.59	29.20 LF	0+00.00 0.00	SDLN-D
STRM CB D-2	G-2 CB	134.37'	129.43	12" PVC	127.43	23.05 LF	0+29.20 0.00	SDLN-D
STRM CB D-3	G-2 CB	134.56'	130.85	12" PVC	128.85	23.22 LF	0+23.22 0.00	SDLN-D.α
STRM CB E-1	G-2 CB	141.42'	137.67	12" PVC	135.67	24.67 LF	0+24.67 0.00	SDLN-E
STRM CB E-2	G-2 CB	141.46'	137.16	12" REINFORCED CONCRETE PIPE	135.16	260.85 LF	0+00.00 0.00	SDLN-E
STRM CB C-2	G-2 CB	125.84'	123.14	10" CPP	121.14	191.94 LF	0+00.79 0.55 R	SDLN-C
STRM CB C-1	G-2 CB	125.90'	123.32	12" PVC	121.32	25.92 LF	0+26.70 0.00	SDLN-C



NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
JRN DRAFTED	9/13/2024	DATE
JAG CHECKED	9/16/2024	DATE
APPROVED		DATE



**CITY OF MILWAUKIE**

10501 SE MAIN STREET  
 MILWAUKIE, OR 97222

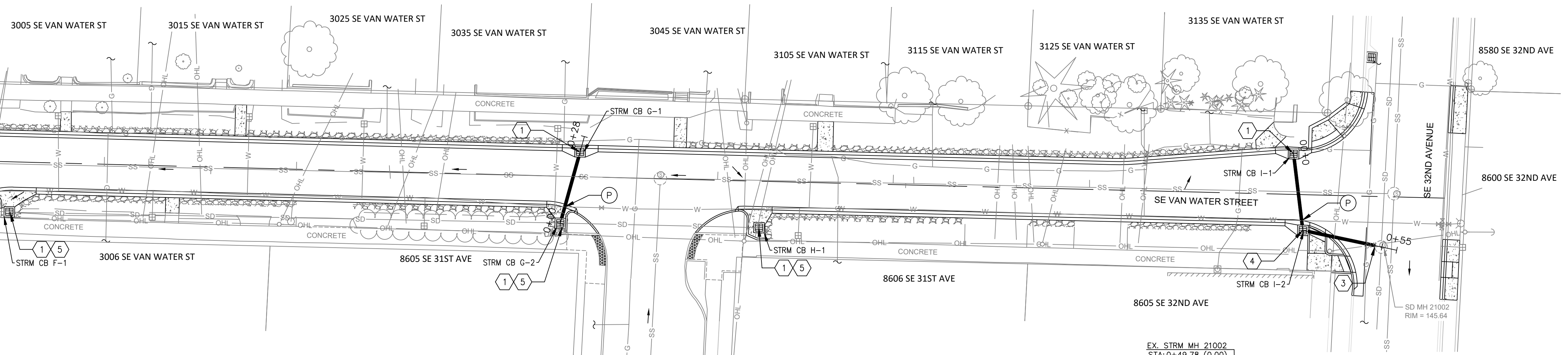
PHONE: 503-786-7600  
 FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**

STORMWATER CONSTRUCTION  
 VAN WATER ST - STA 2+00 TO STA 7+00

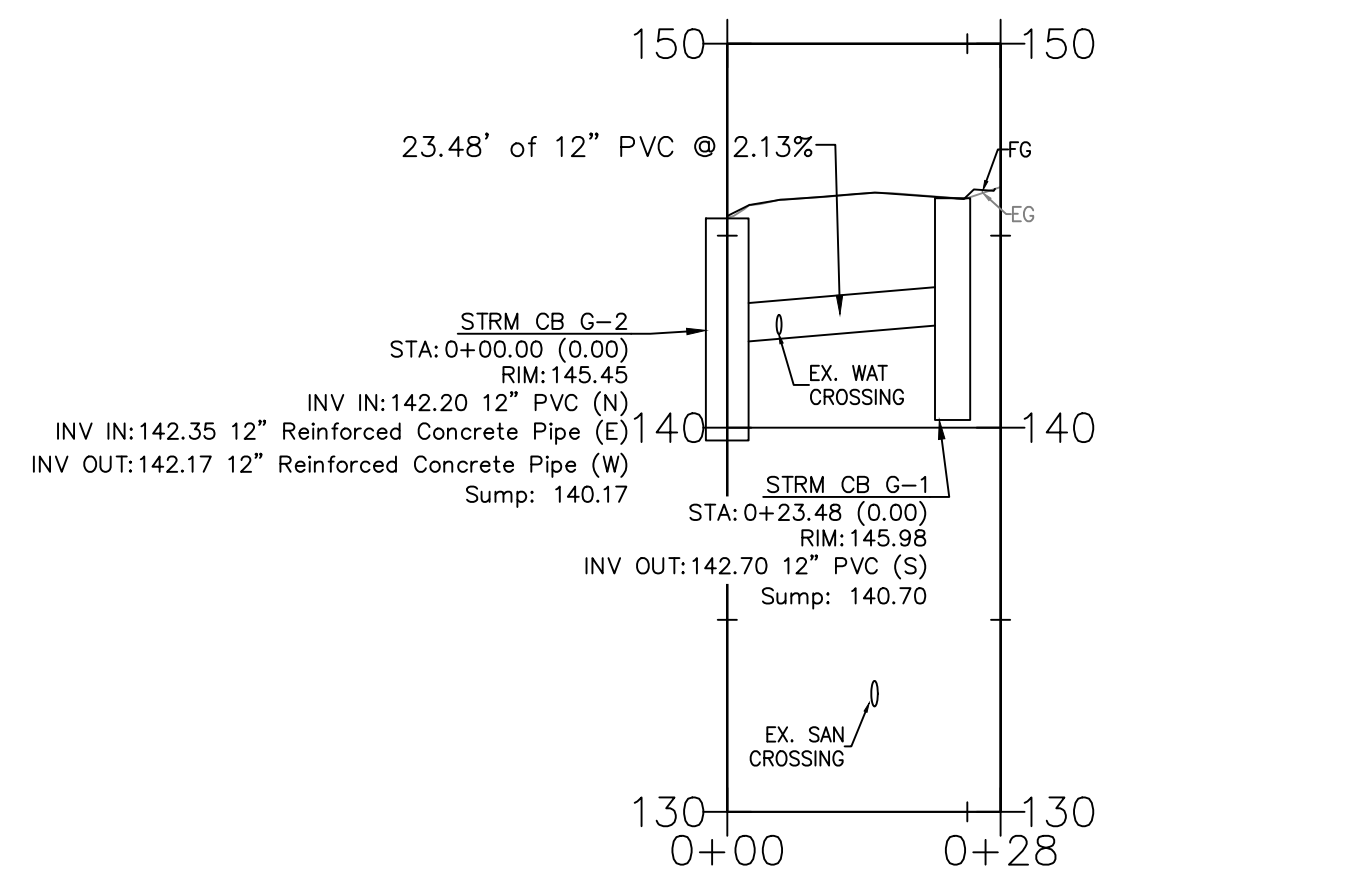
PROJECT NO.: W61    SHEET NO.: 53 OF 93    DATE: 9/13/2024    SHEET: C201

MATCHLINE SHEET C201

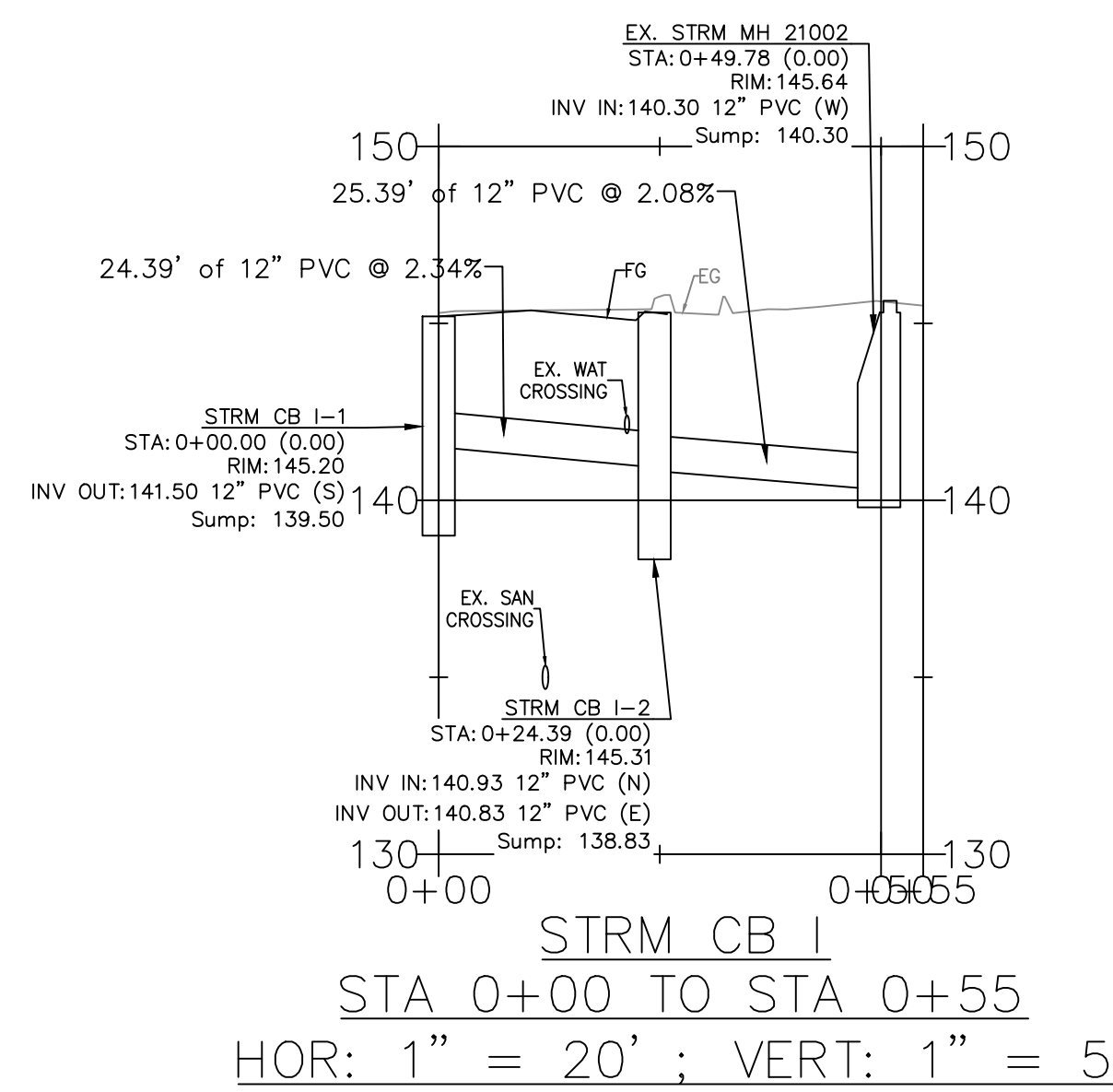


MATCHLINE SEE C206

VAN WATER STREET  
STA 7+00 TO STA 11+65



STRM CB G  
STA 0+00 TO STA 0+28  
HOR: 1" = 20' ; VERT: 1" = 5'



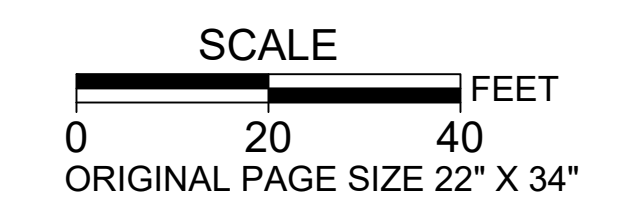
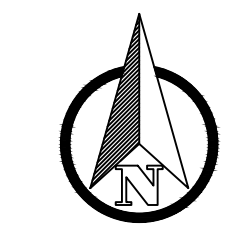
STRM CB I  
STA 0+00 TO STA 0+55  
HOR: 1" = 20' ; VERT: 1" = 5'

- STORMWATER KEY NOTES**
1. INSTALL G-2 CATCHBASIN. SEE CITY OF MILWAUKIE DRAWINGS 201, 204, 205 SHEET C208 AND OREGON STANDARD DRAWING RD 363, SHEET C209.
  2. INSTALL MANHOLE. SEE CITY OF MILWAUKIE DRAWING 208 AND OREGON STANDARD DRAWING RD 336, SHEET C208 AND OREGON STANDARD DRAWINGS RD 342, RD 344, AND RD 345 SHEET C209.
  3. CONNECT PIPE TO EXISTING STRUCTURE.
  4. INSTALL CG-3 CURB INLET. SEE OREGON STANDARD DRAWINGS RD 371 AND RD 372, SHEET C210.
  5. CONNECT EXISTING PIPE TO NEW STRUCTURE.
  6. CONTRACTOR SHALL POPTHOLE TO VERIFY LOCATION, SIZE, AND DEPTH OF EXISTING UTILITIES.

- STORMWATER NOTES**
1. ALL HIGH-DENSITY POLYETHYLENE (HDPE) AND PVC PIPE SHALL BE DEFLECTION TESTED NO LESS THAN 30-DAYS AFTER THE TRENCH BACKFILL AND COMPACTION HAS BEEN COMPLETED. THE TEST SHALL BE CONDUCTED BY PULLING AN APPROVED SOLID POINTED 95% OF AN INSIDE DIAMETER MANDREL THROUGH THE PIPELINE. CITY INSPECTOR SHALL BE PRESENT DURING TESTING.
  2. MANHOLES SHALL BE PRECAST CONCRETE SECTIONS WITH MINIMUM INSIDE DIAMETER OF 48-INCHES, CONFORMING TO THE REQUIREMENTS OF ASTM C-478, EXCEPT AS NOTED ON THE PLANS.

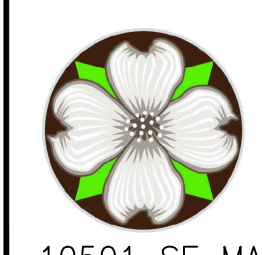
- UTILITY LEGEND**
- EXISTING SANITARY MANHOLE
  - SANITARY MANHOLE
  - EXISTING STORM MANHOLE
  - ⊙ STORM MANHOLE
  - EXISTING SANITARY LINE
  - SANITARY LINE
  - EXISTING STORM LINE
  - STORM LINE
  - EXISTING WATER LINE
  - WATER LINE
  - CATCH BASIN
  - ⊗ WATER VALVE

STRUCTURE TABLE								
STRUCTURE NAME:	TYPE	TOP OF CURB ELEV	IE OUT	PIPE	SUMP	LENGTH	STATION & OFFSET	ALIGNMENT
STRM CB I-1	G-2 CB	145.20'	141.50	12" PVC	139.50	24.39 LF	0+00.00 0.00	SDLN-I
STRM CB I-2	G-2 CB	145.31'	140.83	12" PVC	138.83	25.39 LF	0+24.39 0.00	SDLN-I
STRM CB G-1	G-2 CB	145.98'	142.70	12" PVC	140.70	23.48 LF	0+23.48 0.00	SDLN-G
STRM CB G-2	G-2 CB	145.45'	142.17	12" REINFORCED CONCRETE PIPE	140.17	174.50 LF	0+00.00 0.00	SDLN-G
STRM CB H-1	G-2 CB	145.78'	142.72	12" REINFORCED CONCRETE PIPE	142.72	62.96 LF	9+70.85 14.67 R	Van Water DGN CL
STRM CB F-1	G-2 CB	141.51'	140.34	12" REINFORCED CONCRETE PIPE	140.34	63.68 LF	7+33.41 15.84 R	Van Water DGN CL



NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
JRN DRAFTED	9/13/2024	DATE
JAG CHECKED	9/16/2024	DATE
APPROVED		DATE



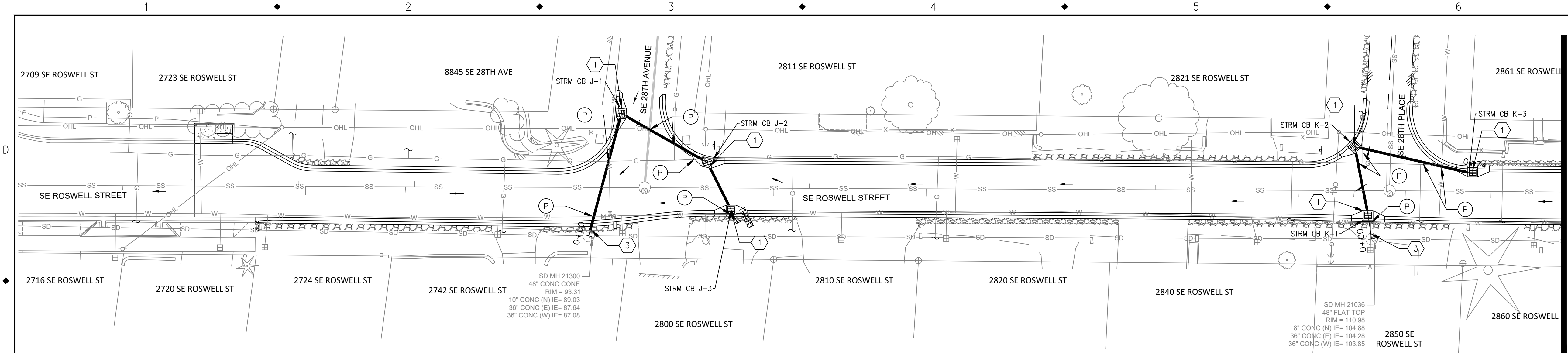
**CITY OF MILWAUKIE**

10501 SE MAIN STREET  
MILWAUKIE, OR 97222  
PHONE: 503-786-7600  
FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**

STORMWATER CONSTRUCTION  
VAN WATER ST - STA 7+00 TO 11+65

PROJECT NO.:	W61	SHEET NO.:	54 OF 93	DATE:	9/13/2024	SHEET:	C202
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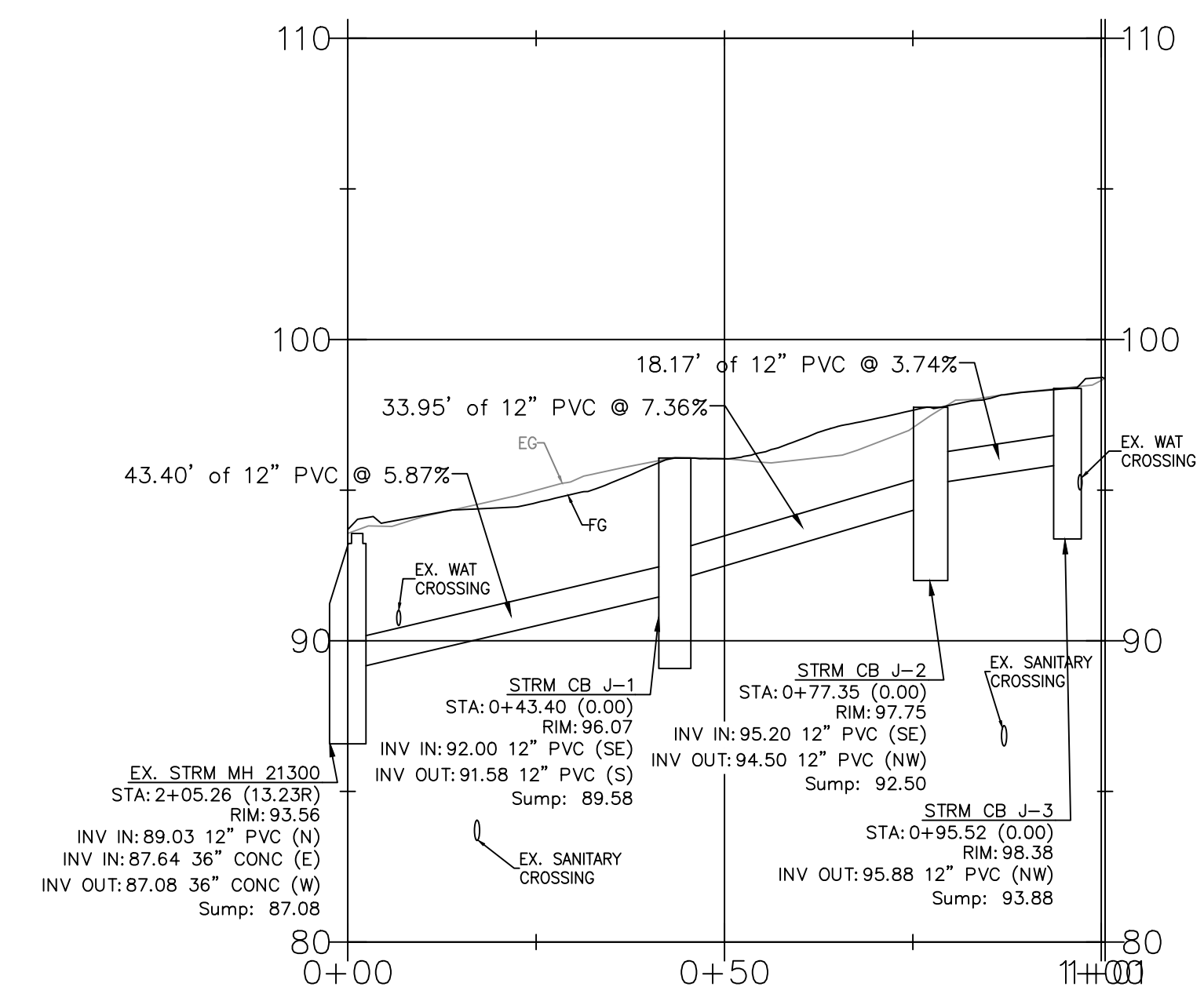


- STORMWATER KEY NOTES**
1. INSTALL G-2 CATCHBASIN. SEE CITY OF MILWAUKIE DRAWINGS 201, 204, 205 SHEET C208 AND OREGON STANDARD DRAWING RD 363, SHEET C209.
  2. INSTALL MANHOLE. SEE CITY OF MILWAUKIE DRAWING 208 AND OREGON STANDARD DRAWING RD 336, SHEET C208 AND OREGON STANDARD DRAWINGS RD 342, RD 344, AND RD 345 SHEET C209.
  3. CONNECT PIPE TO EXISTING STRUCTURE.
  4. INSTALL CG-3 CURB INLET. SEE OREGON STANDARD DRAWINGS RD 371 AND RD 372, SHEET C210.
  5. CONNECT EXISTING PIPE TO NEW STRUCTURE.
  6. CONTRACTOR SHALL POTHOLE TO VERIFY LOCATION, SIZE, AND DEPTH OF EXISTING UTILITIES.

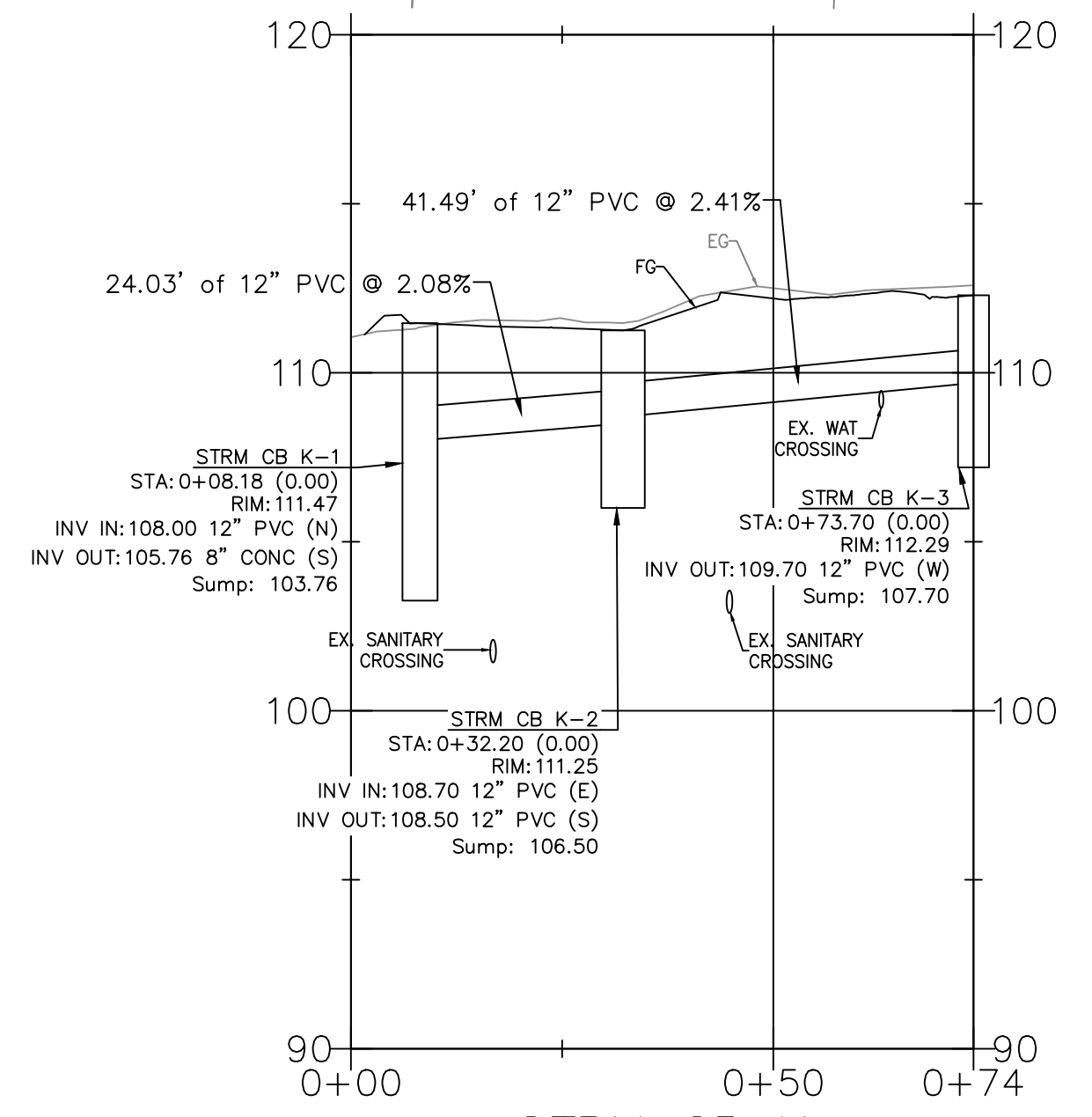
- STORMWATER NOTES**
1. ALL HIGH-DENSITY POLYETHYLENE (HDPE) AND PVC PIPE SHALL BE DEFLECTION TESTED NO LESS THAN 30-DAYS AFTER THE TRENCH BACKFILL AND COMPACTION HAS BEEN COMPLETED. THE TEST SHALL BE CONDUCTED BY PULLING AN APPROVED SOLID POINTED 95% OF AN INSIDE DIAMETER MANDREL THROUGH THE PIPELINE. CITY INSPECTOR SHALL BE PRESENT DURING TESTING.
  2. MANHOLES SHALL BE PRECAST CONCRETE SECTIONS WITH MINIMUM INSIDE DIAMETER OF 48-INCHES, CONFORMING TO THE REQUIREMENTS OF ASTM C-478, EXCEPT AS NOTED ON THE PLANS.

- UTILITY LEGEND**
- EXISTING SANITARY MANHOLE
  - SANITARY MANHOLE
  - EXISTING STORM MANHOLE
  - STORM MANHOLE
  - EXISTING SANITARY LINE
  - SANITARY LINE
  - EXISTING STORM LINE
  - STORM LINE
  - EXISTING WATER LINE
  - WATER LINE
  - CATCH BASIN
  - ✕ WATER VALVE

**ROSWELL STREET**  
STA 0+00 TO STA 5+50

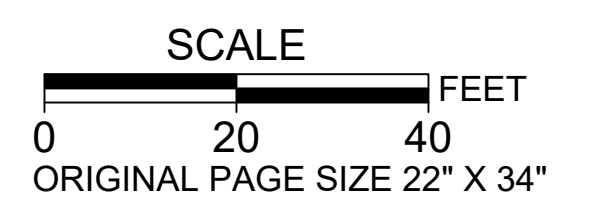
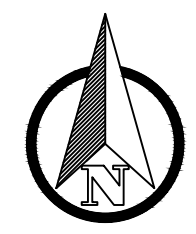


**STRM CB J**  
STA 0+00 TO STA 1+01  
HOR: 1" = 20' ; VERT: 1" = 5'



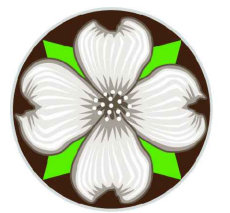
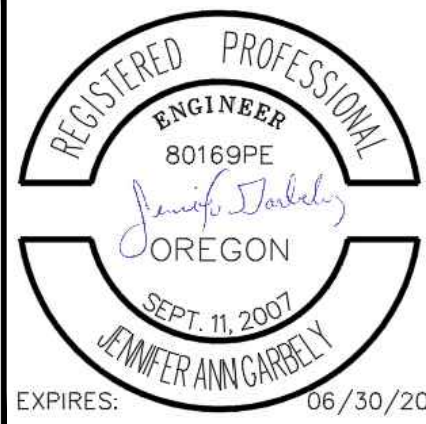
**STRM CB K**  
STA 0+00 TO STA 0+74  
HOR: 1" = 20' ; VERT: 1" = 5'

STRUCTURE TABLE								
STRUCTURE NAME:	TYPE	TOP OF CURB ELEV	IE OUT	PIPE	SUMP	LENGTH	STATION & OFFSET	ALIGNMENT
STRM CB J-3	G-2 CB	98.38'	95.88	12" PVC	93.88	18.17 LF	0+95.52 0.00	SDLN-J
STRM CB J-2	G-2 CB	97.75'	94.50	12" PVC	92.50	33.95 LF	0+77.35 0.00	SDLN-J
STRM CB J-1	G-2 CB	96.07'	91.58	12" PVC	89.58	43.40 LF	0+43.40 0.00	SDLN-J
STRM CB K-1	G-2 CB	111.47'	105.76	8" CONC	103.76	8.18 LF	0+08.18 0.00	SDLN-K
STRM CB K-2	G-2 CB	111.25'	108.50	12" PVC	106.50	24.03 LF	0+32.20 0.00	SDLN-K
STRM CB K-3	G-2 CB	112.29'	109.70	12" PVC	107.70	41.49 LF	0+73.70 0.00	SDLN-K



NO.	DATE	BY	REVISIONS

TAP DESIGNED 3/11/2022 DATE  
 JRN DRAFTED 9/13/2024 DATE  
 JAG CHECKED 9/16/2024 DATE  
 APPROVED \_\_\_\_\_ DATE



**CITY OF MILWAUKIE**

10501 SE MAIN STREET MILWAUKIE, OR 97222  
 PHONE: 503-786-7600 FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**

STORMWATER CONSTRUCTION  
 ROSWELL ST - STA 0+00 TO STA 5+50

MATCHLINE SEE C206

MATCHLINE SEE C206

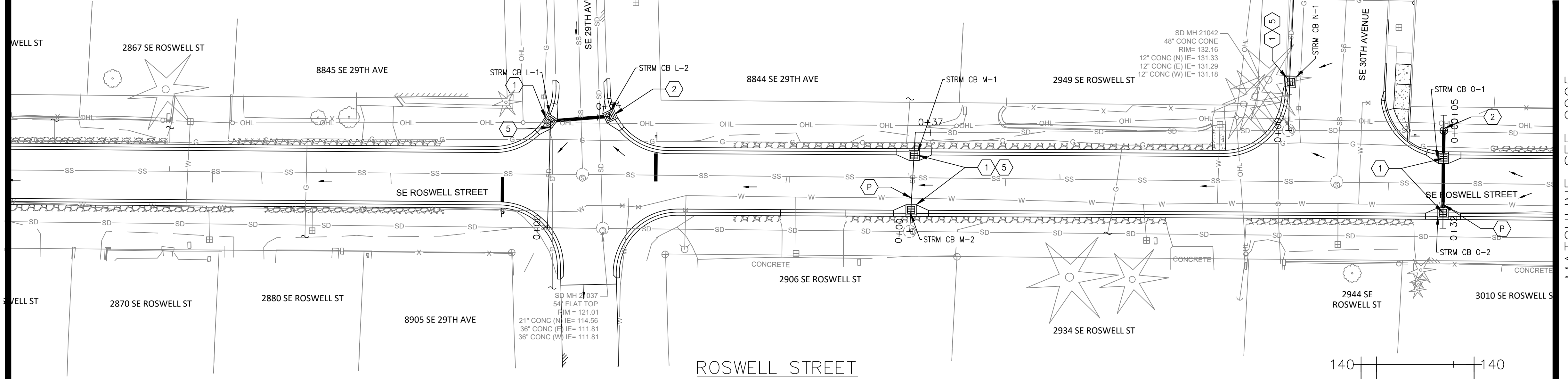
MATCHLINE SHEET C203

MATCHLINE SEE C205

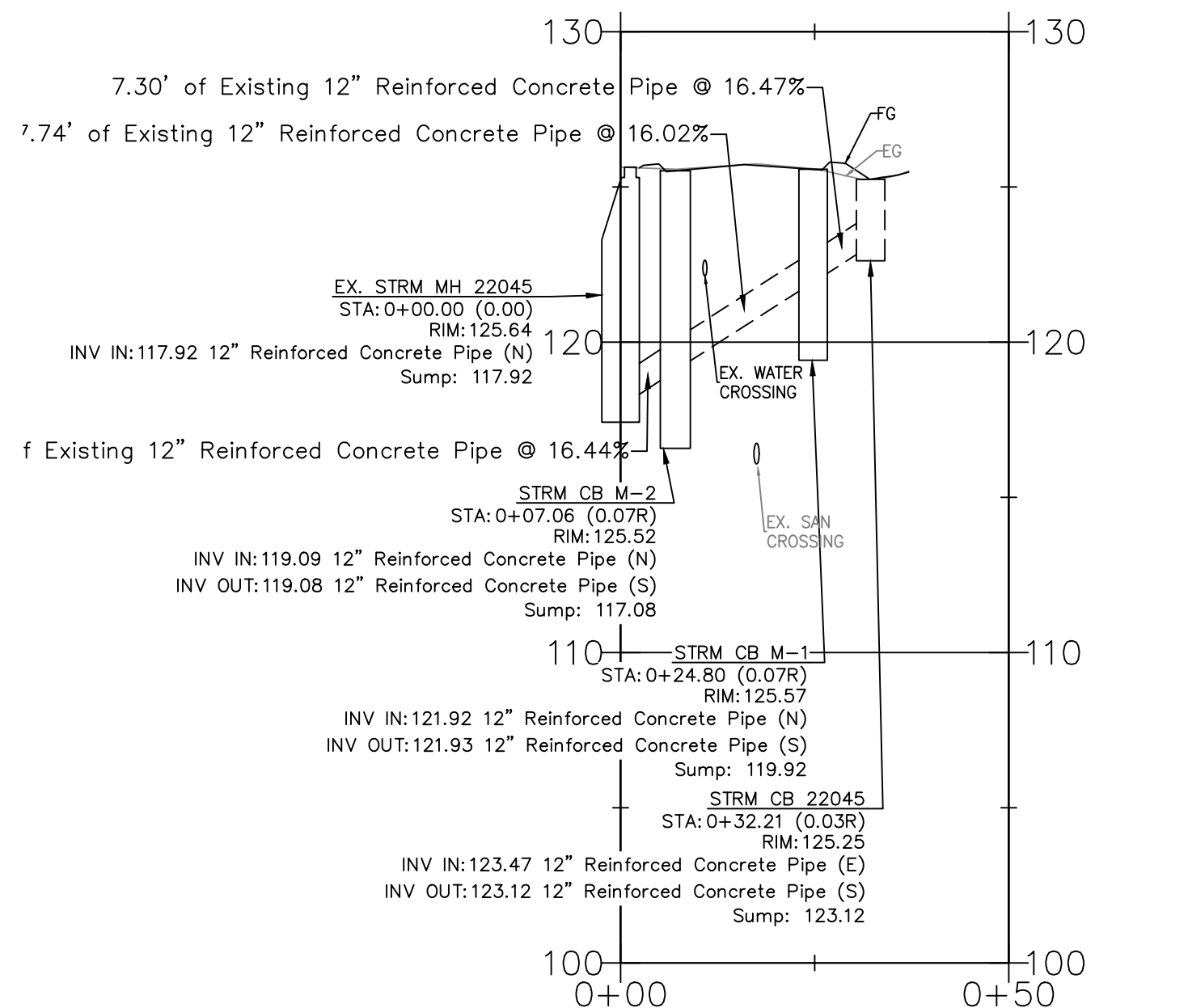
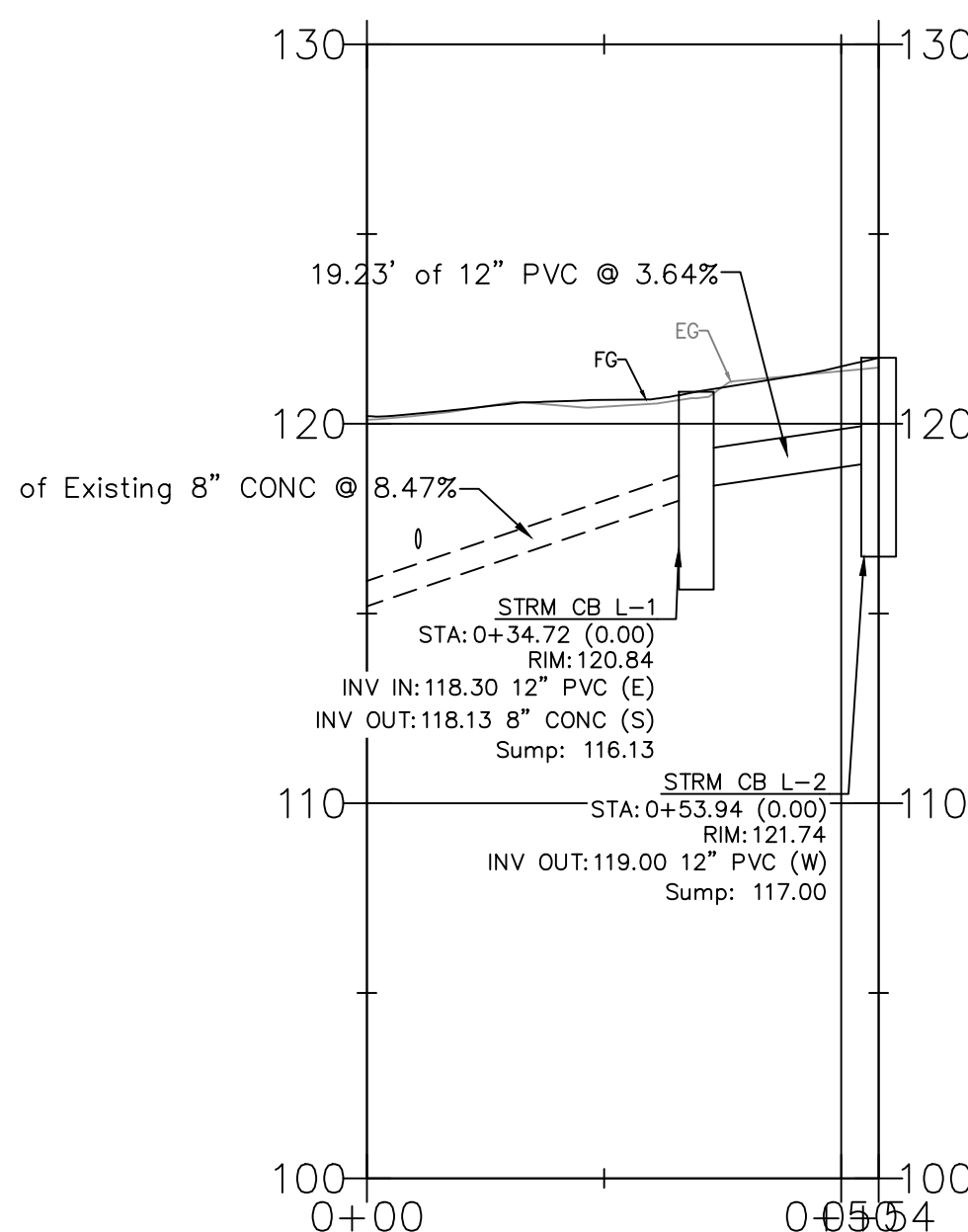
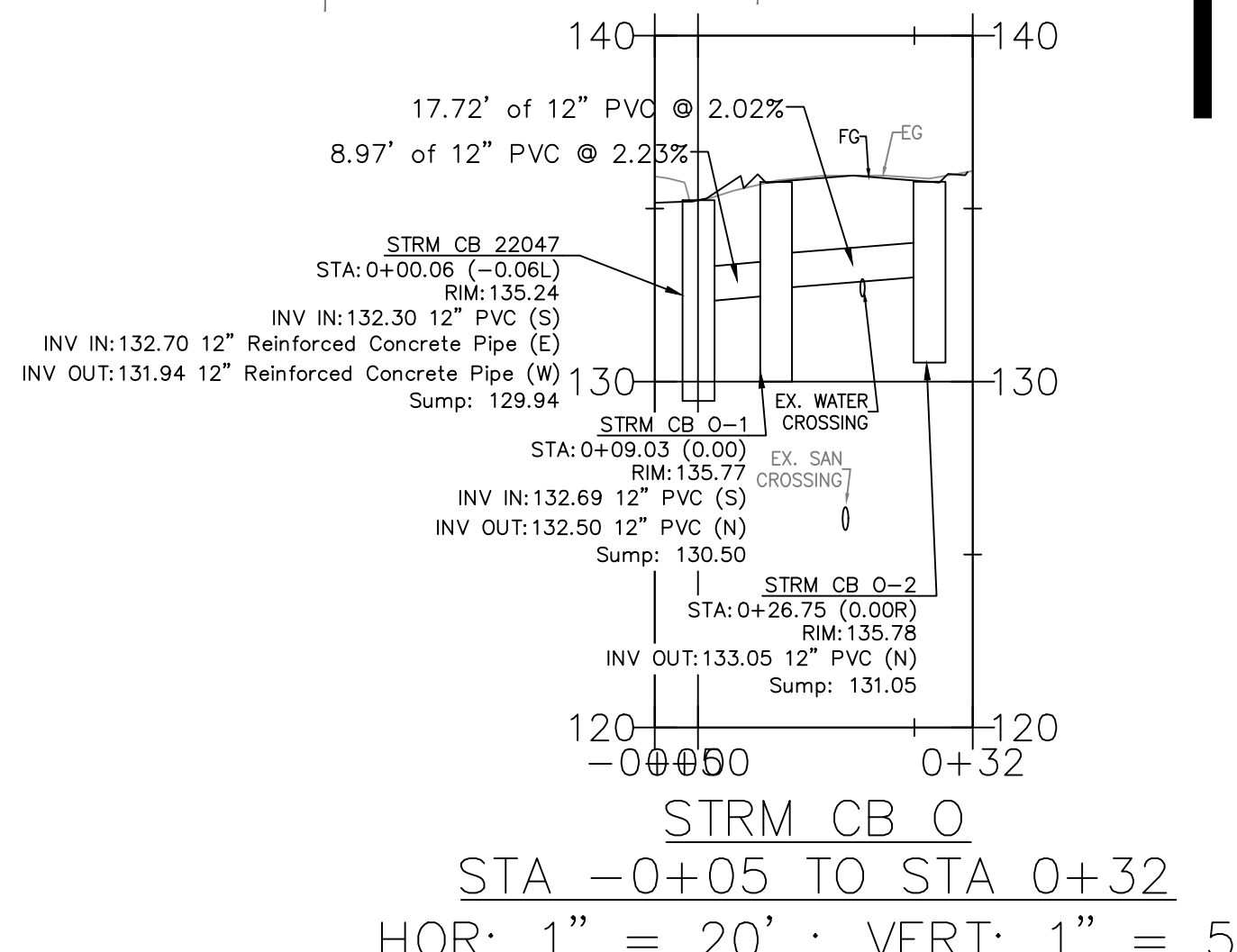
- STORMWATER KEY NOTES**
- 1 INSTALL G-2 CATCHBASIN. SEE CITY OF MILWAUKIE DRAWINGS 201, 204, 205 SHEET C208 AND OREGON STANDARD DRAWING RD 363, SHEET C209.
  - 2 INSTALL MANHOLE. SEE CITY OF MILWAUKIE DRAWING 208 AND OREGON STANDARD DRAWING RD 336, SHEET C208 AND OREGON STANDARD DRAWINGS RD 342, RD 344, AND RD 345 SHEET C209.
  - 3 CONNECT PIPE TO EXISTING STRUCTURE.
  - 4 INSTALL CG-3 CURB INLET. SEE OREGON STANDARD DRAWINGS RD 371 AND RD 372, SHEET C210.
  - 5 CONNECT EXISTING PIPE TO NEW STRUCTURE.
  - P CONTRACTOR SHALL POTHOLE TO VERIFY LOCATION, SIZE, AND DEPTH OF EXISTING UTILITIES.

- STORMWATER NOTES:**
1. ALL HIGH-DENSITY POLYETHYLENE (HDPE) AND PVC PIPE SHALL BE DEFLECTION TESTED NO LESS THAN 30-DAYS AFTER THE TRENCH BACKFILL AND COMPACTION HAS BEEN COMPLETED. THE TEST SHALL BE CONDUCTED BY PULLING AN APPROVED SOLID POINTED 95% OF AN INSIDE DIAMETER MANDREL THROUGH THE PIPELINE. CITY INSPECTOR SHALL BE PRESENT DURING TESTING.
  2. MANHOLES SHALL BE PRECAST CONCRETE SECTIONS WITH MINIMUM INSIDE DIAMETER OF 48-INCHES, CONFORMING TO THE REQUIREMENTS OF ASTM C-478, EXCEPT AS NOTED ON THE PLANS.

- UTILITY LEGEND**
- EXISTING SANITARY MANHOLE
  - SANITARY MANHOLE
  - EXISTING STORM MANHOLE
  - STORM MANHOLE
  - EXISTING SANITARY LINE
  - SANITARY LINE
  - EXISTING STORM LINE
  - STORM LINE
  - EXISTING WATER LINE
  - WATER LINE
  - CATCH BASIN
  - ⊗ WATER VALVE

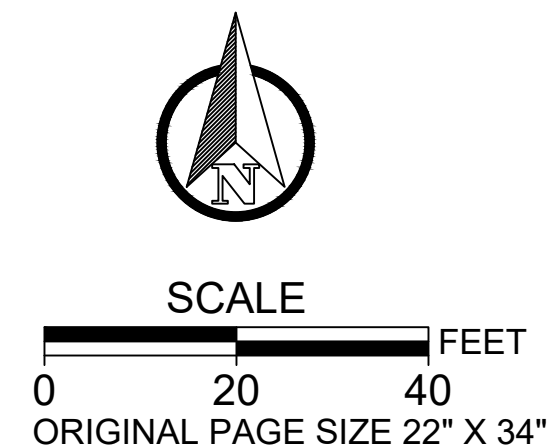


**ROSWELL STREET**  
 STA 5+50 TO STA 10+50



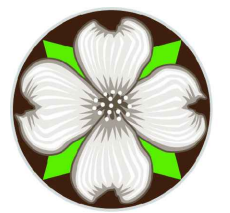
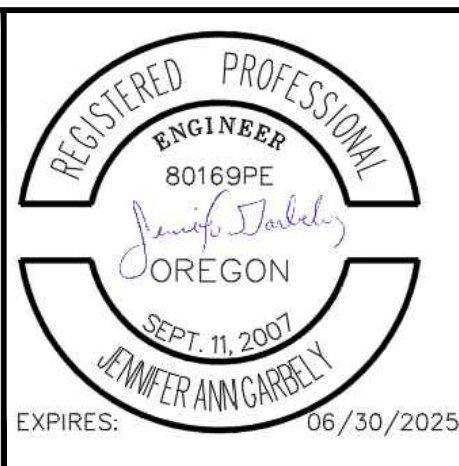
**STRUCTURE TABLE**

STRUCTURE NAME	TYPE	TOP OF CURB ELEV	IE OUT	PIPE	SUMP	LENGTH	STATION & OFFSET	ALIGNMENT
STRM CB L-1	G-2 CB	120.84'	118.13	8" CONC	116.13	34.72 LF	0+34.72 0.00	SDLN-L
STRM CB L-2	G-2 CB	121.74'	119.00	12" PVC	117.00	19.23 LF	0+53.94 0.00	SDLN-L
STRM CB M-1	G-2 CB	125.57'	121.93	12" REINFORCED CONCRETE PIPE	119.92	17.74 LF	0+24.80 0.07 R	SDLN-M
STRM CB M-2	G-2 CB	125.52'	119.08	12" REINFORCED CONCRETE PIPE	117.08	7.06 LF	0+07.06 0.07 R	SDLN-M
STRM CB O-2	G-2 CB	135.78'	133.05	12" PVC	131.05	17.72 LF	0+26.75 0.00 R	SDLN-O
STRM CB O-1	G-2 CB	135.77'	132.50	12" PVC	130.50	8.97 LF	0+09.03 0.00	SDLN-O
STRM CB N-1	G-2 CB	131.63'	127.62	12" PVC	125.62	15.88 LF	0+15.88 0.00	SDLN-N



NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
JRN DRAFTED	9/13/2024	DATE
JAG CHECKED	9/16/2024	DATE
APPROVED		DATE



**CITY OF MILWAUKIE**

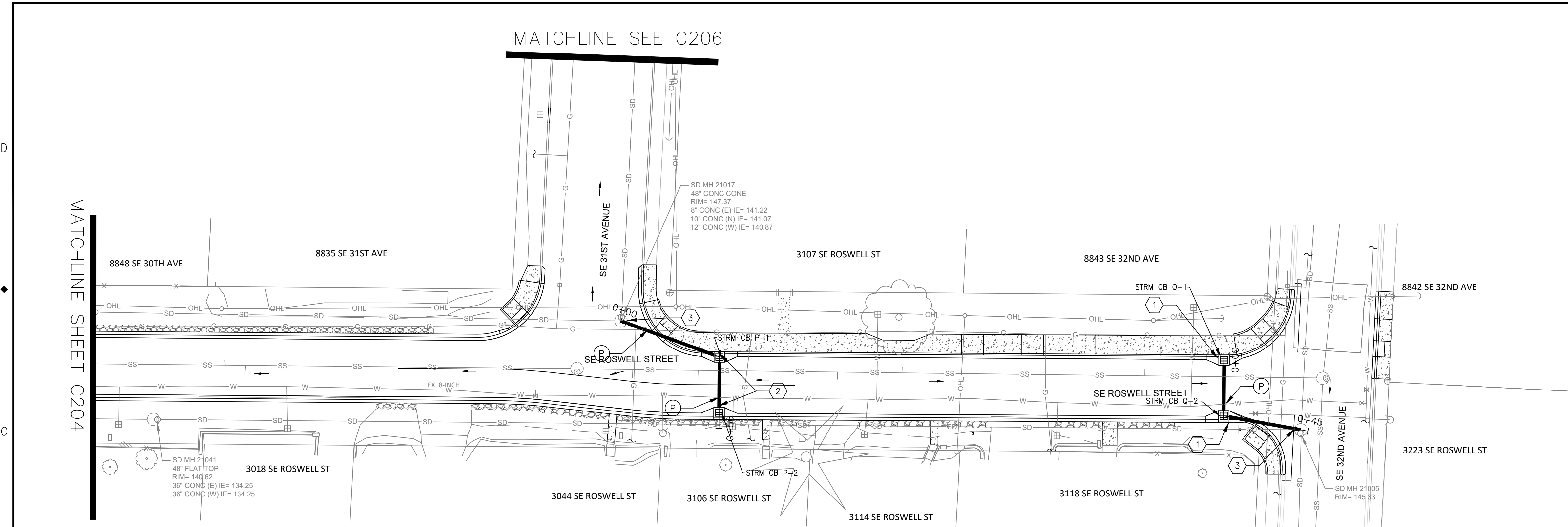
10501 SE MAIN STREET  
 MILWAUKIE, OR 97222  
 PHONE: 503-786-7600  
 FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**

STORMWATER CONSTRUCTION  
 ROSWELL ST - STA 5+50 TO STA 10+50

PROJECT NO.:	W61	SHEET NO.:	56 OF 93	DATE:	9/13/2024	SHEET:	C204
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- STORMWATER KEY NOTES**
1. INSTALL G-2 CATCHBASIN. SEE CITY OF MILWAUKIE DRAWINGS 201, 204, 205 SHEET C208 AND OREGON STANDARD DRAWING RD 363, SHEET C209.
  2. INSTALL MANHOLE. SEE CITY OF MILWAUKIE DRAWING 208 AND OREGON STANDARD DRAWING RD 336, SHEET C208 AND OREGON STANDARD DRAWINGS RD 342, RD 344, AND RD 345 SHEET C209.
  3. CONNECT PIPE TO EXISTING STRUCTURE.
  4. INSTALL CG-3 CURB INLET. SEE OREGON STANDARD DRAWINGS RD 371 AND RD 372, SHEET C210.
  5. CONNECT EXISTING PIPE TO NEW STRUCTURE.
  - P. CONTRACTOR SHALL POTHOLE TO VERIFY LOCATION, SIZE, AND DEPTH OF EXISTING UTILITIES.

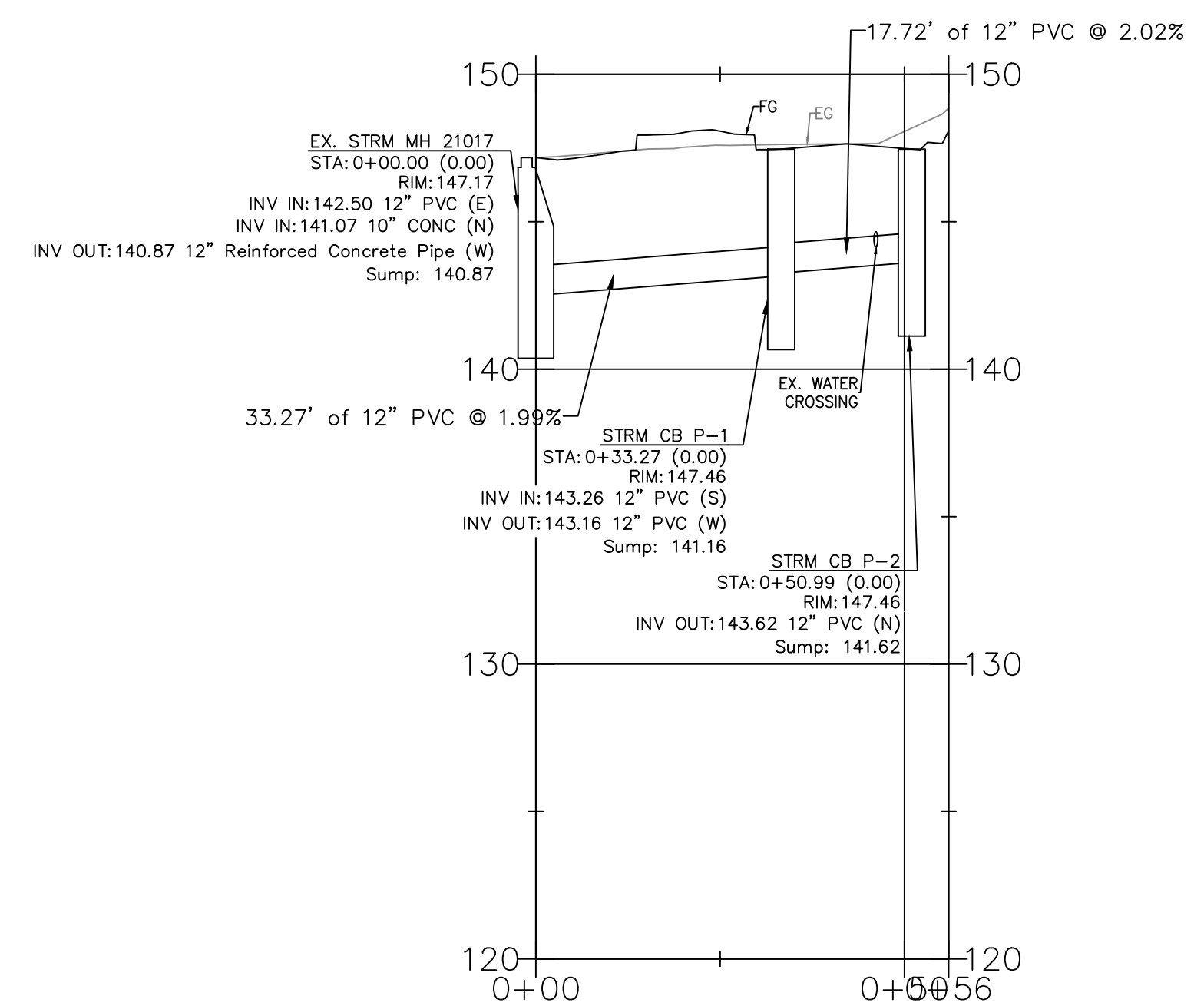
**STORMWATER NOTES:**

1. ALL HIGH-DENSITY POLYETHYLENE (HDPE) AND PVC PIPE SHALL BE DEFLECTION TESTED NO LESS THAN 30-DAYS AFTER THE TRENCH BACKFILL AND COMPACTION HAS BEEN COMPLETED. THE TEST SHALL BE CONDUCTED BY PULLING AN APPROVED SOLID POINTED 95% OF AN INSIDE DIAMETER MANDREL THROUGH THE PIPELINE. CITY INSPECTOR SHALL BE PRESENT DURING TESTING.
2. MANHOLES SHALL BE PRECAST CONCRETE SECTIONS WITH MINIMUM INSIDE DIAMETER OF 48-INCHES, CONFORMING TO THE REQUIREMENTS OF ASTM C-478, EXCEPT AS NOTED ON THE PLANS.

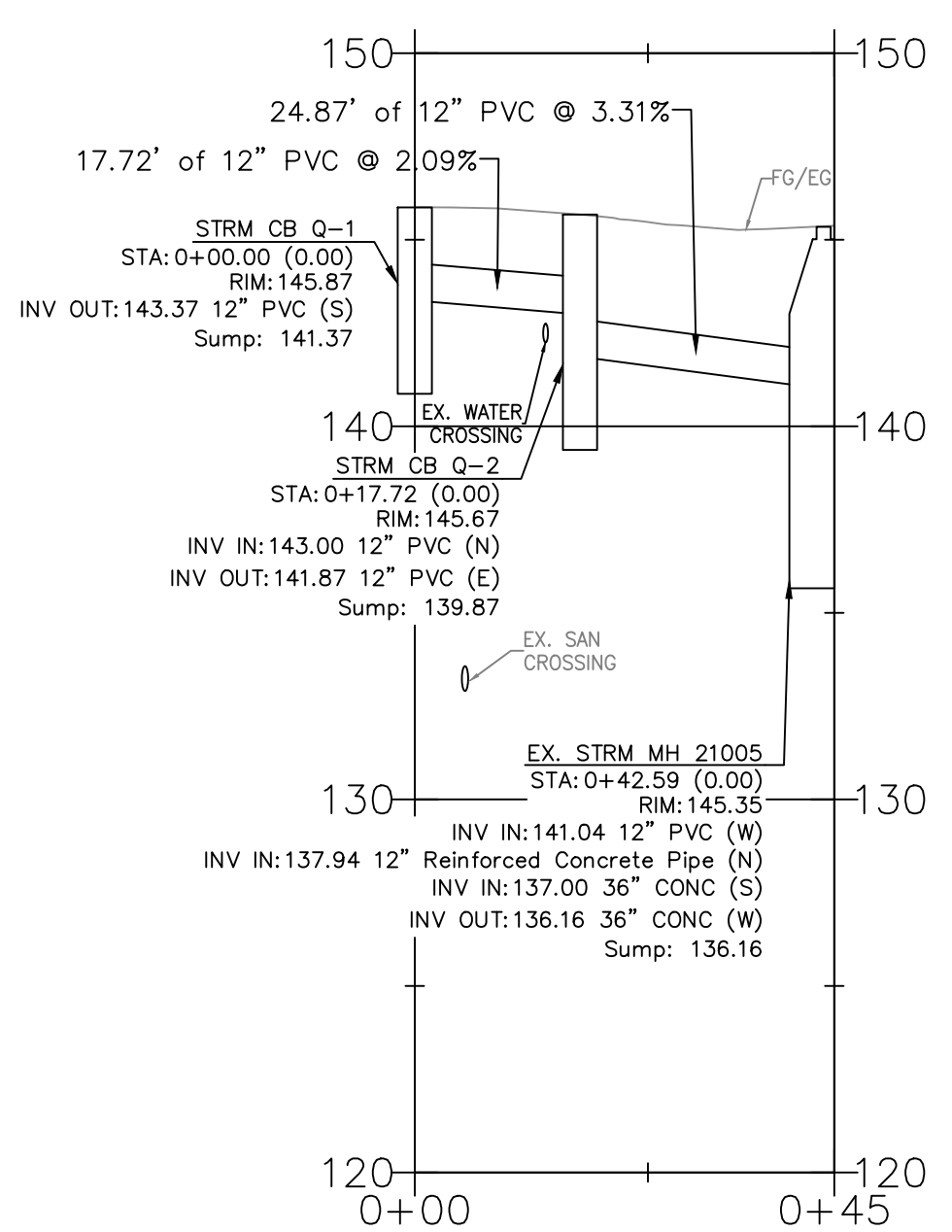
- UTILITY LEGEND**
- EXISTING SANITARY MANHOLE
  - SANITARY MANHOLE
  - EXISTING STORM MANHOLE
  - STORM MANHOLE
  - EXISTING SANITARY LINE
  - SANITARY LINE
  - EXISTING STORM LINE
  - STORM LINE
  - EXISTING WATER LINE
  - WATER LINE
  - CATCH BASIN
  - WATER VALVE

ROSWELL STREET  
STA 10+50 TO STA 14+50

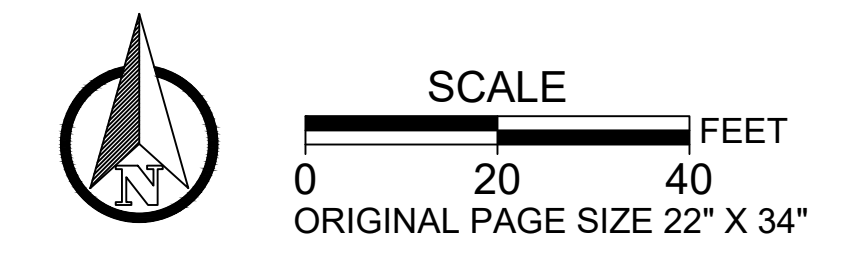
STRUCTURE TABLE								
STRUCTURE NAME:	TYPE	TOP OF CURB ELEV	IE OUT	PIPE	SUMP	LENGTH	STATION & OFFSET	ALIGNMENT
STRM CB Q-1	G-2 CB	145.87'	143.37	12" PVC	141.37	17.72 LF	0+00.00 0.00	SDLN-Q
STRM CB Q-2	G-2 CB	145.67'	141.87	12" PVC	139.87	24.87 LF	0+17.72 0.00	SDLN-Q
STRM CB P-2	G-2 CB	147.46'	143.62	12" PVC	141.62	17.72 LF	0+50.99 0.00	SDLN-P
STRM CB P-1	G-2 CB	147.46'	143.16	12" PVC	141.16	33.27 LF	0+33.27 0.00	SDLN-P



STRM CB P  
STA 0+00 TO STA 0+56  
HOR: 1" = 20' ; VERT: 1" = 5'



STRM CB Q  
STA 0+00 TO STA 0+45  
HOR: 1" = 20' ; VERT: 1" = 5'



NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
JRN DRAFTED	9/13/2024	DATE
JAG CHECKED	9/16/2024	DATE
APPROVED		DATE

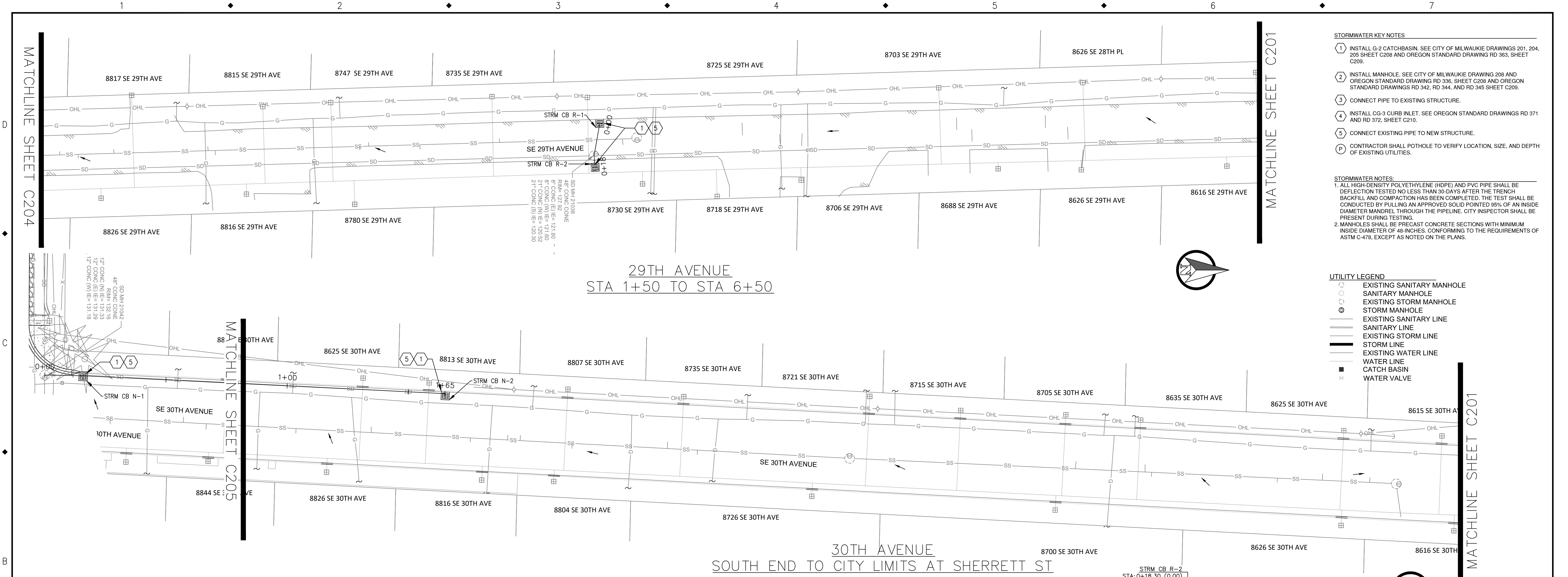


**CITY OF MILWAUKIE**  
10501 SE MAIN STREET  
MILWAUKIE, OR 97222  
PHONE: 503-786-7600  
FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**

STORMWATER CONSTRUCTION  
ROSWELL ST - STA 10+50 TO STA 14+50

PROJECT NO.:	W61	SHEET NO.:	57 OF 93	DATE:	9/13/2024	SHEET:	C205
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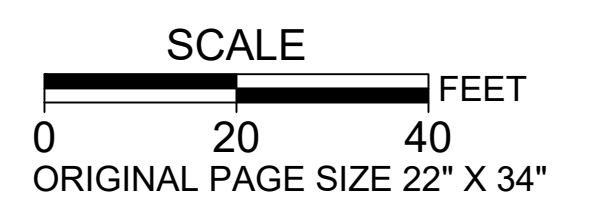
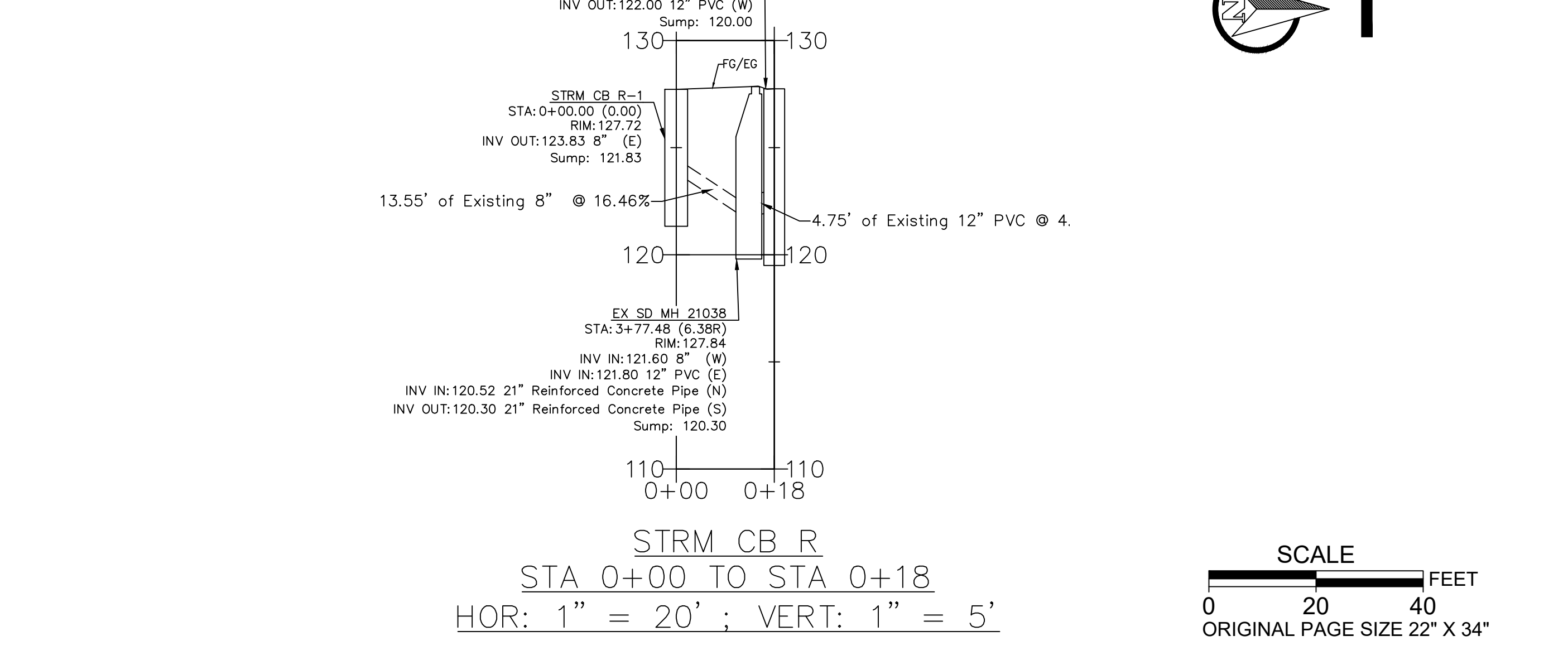
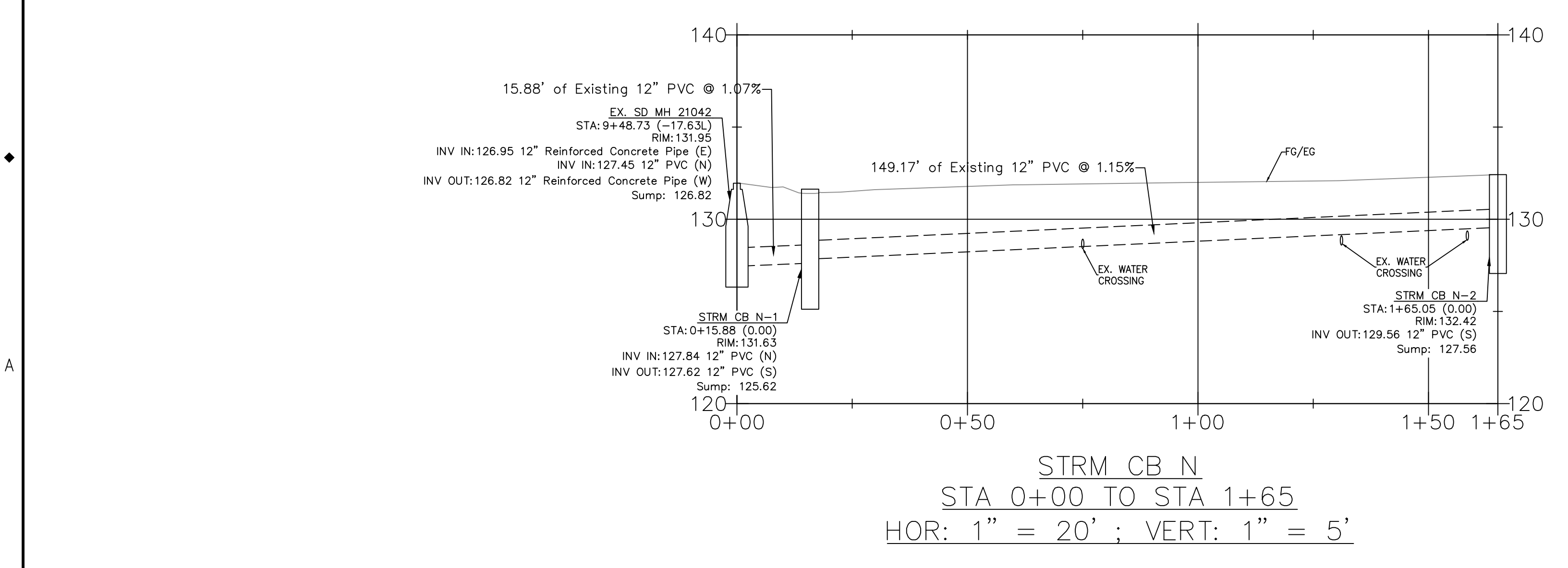


- STORMWATER KEY NOTES**
1. INSTALL G-2 CATCHBASIN. SEE CITY OF MILWAUKIE DRAWINGS 201, 204, 205 SHEET C208 AND OREGON STANDARD DRAWING RD 363, SHEET C209.
  2. INSTALL MANHOLE. SEE CITY OF MILWAUKIE DRAWING 208 AND OREGON STANDARD DRAWING RD 336, SHEET C208 AND OREGON STANDARD DRAWINGS RD 342, RD 344, AND RD 345 SHEET C209.
  3. CONNECT PIPE TO EXISTING STRUCTURE.
  4. INSTALL CG-3 CURB INLET. SEE OREGON STANDARD DRAWINGS RD 371 AND RD 372, SHEET C210.
  5. CONNECT EXISTING PIPE TO NEW STRUCTURE.
  6. CONTRACTOR SHALL POPTHOLE TO VERIFY LOCATION, SIZE, AND DEPTH OF EXISTING UTILITIES.

**STORMWATER NOTES:**

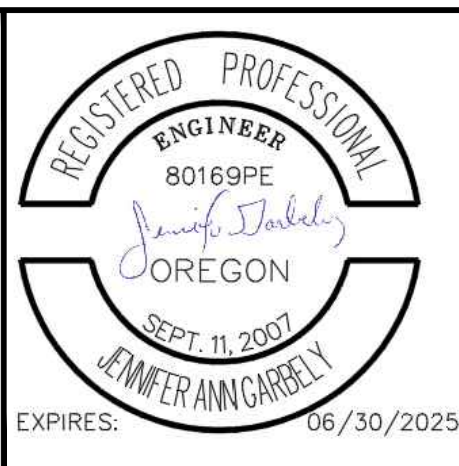
1. ALL HIGH-DENSITY POLYETHYLENE (HDPE) AND PVC PIPE SHALL BE DEFLECTION TESTED NO LESS THAN 30-DAYS AFTER THE TRENCH BACKFILL AND COMPACTION HAS BEEN COMPLETED. THE TEST SHALL BE CONDUCTED BY PULLING AN APPROVED SOLID POINTED 95% OF AN INSIDE DIAMETER MANDREL THROUGH THE PIPELINE. CITY INSPECTOR SHALL BE PRESENT DURING TESTING.
2. MANHOLES SHALL BE PRECAST CONCRETE SECTIONS WITH MINIMUM INSIDE DIAMETER OF 48-INCHES, CONFORMING TO THE REQUIREMENTS OF ASTM C-478, EXCEPT AS NOTED ON THE PLANS.

- UTILITY LEGEND**
- EXISTING SANITARY MANHOLE
  - SANITARY MANHOLE
  - EXISTING STORM MANHOLE
  - STORM MANHOLE
  - EXISTING SANITARY LINE
  - SANITARY LINE
  - EXISTING STORM LINE
  - STORM LINE
  - EXISTING WATER LINE
  - WATER LINE
  - CATCH BASIN
  - ⊗ WATER VALVE



NO.	DATE	BY	REVISIONS

TAP	3/11/2022	DESIGNED	DATE
JRN	9/13/2024	DRAFTED	DATE
JAG	9/16/2024	CHECKED	DATE
		APPROVED	DATE



**CITY OF MILWAUKIE**

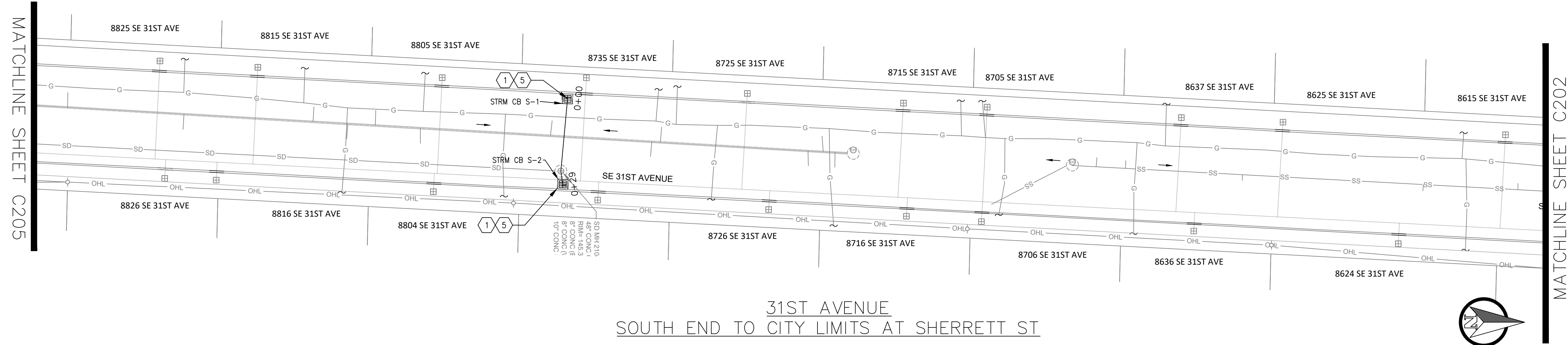
10501 SE MAIN STREET  
 MILWAUKIE, OR 97222

PHONE: 503-786-7600  
 FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**

STORMWATER CONSTRUCTION  
 29TH AVE & 30TH AVE

PROJECT NO.: W61    SHEET NO.: 58 OF 93    DATE: 9/13/2024    SHEET: C206



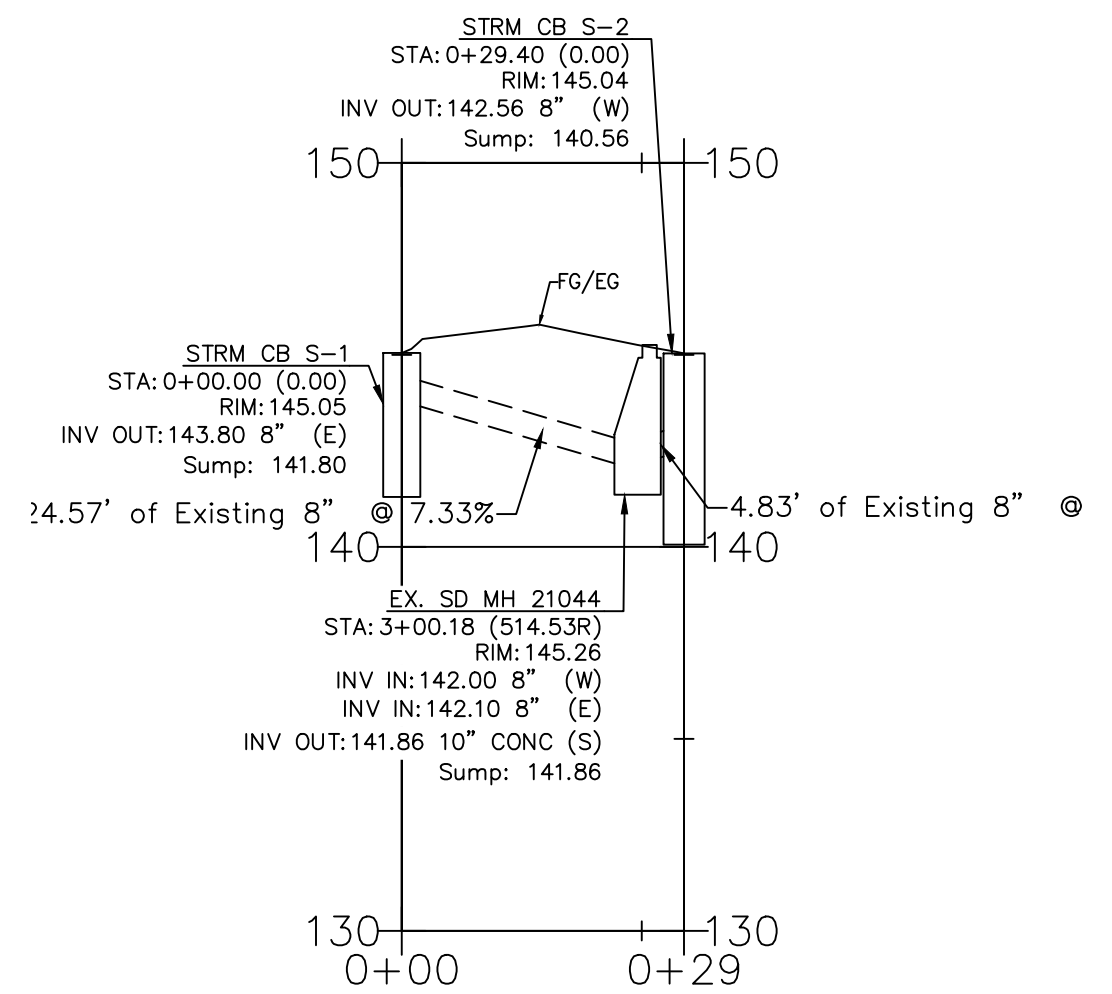
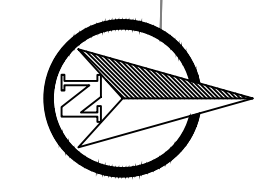
- STORMWATER KEY NOTES**
- ① INSTALL G-2 CATCHBASIN. SEE CITY OF MILWAUKIE DRAWINGS 201, 204, 205 SHEET C208 AND OREGON STANDARD DRAWING RD 363, SHEET C209.
  - ② INSTALL MANHOLE. SEE CITY OF MILWAUKIE DRAWING 208 AND OREGON STANDARD DRAWING RD 336, SHEET C208 AND OREGON STANDARD DRAWINGS RD 342, RD 344, AND RD 345 SHEET C209.
  - ③ CONNECT PIPE TO EXISTING STRUCTURE.
  - ④ INSTALL CG-3 CURB INLET. SEE OREGON STANDARD DRAWINGS RD 371 AND RD 372, SHEET C210.
  - ⑤ CONNECT EXISTING PIPE TO NEW STRUCTURE.
  - Ⓟ CONTRACTOR SHALL POTHOLE TO VERIFY LOCATION, SIZE, AND DEPTH OF EXISTING UTILITIES.

**STORMWATER NOTES:**

1. ALL HIGH-DENSITY POLYETHYLENE (HDPE) AND PVC PIPE SHALL BE DEFLECTION TESTED NO LESS THAN 30-DAYS AFTER THE TRENCH BACKFILL AND COMPACTION HAS BEEN COMPLETED. THE TEST SHALL BE CONDUCTED BY PULLING AN APPROVED SOLID POINTED 95% OF AN INSIDE DIAMETER MANDREL THROUGH THE PIPELINE. CITY INSPECTOR SHALL BE PRESENT DURING TESTING.
2. MANHOLES SHALL BE PRECAST CONCRETE SECTIONS WITH MINIMUM INSIDE DIAMETER OF 48-INCHES, CONFORMING TO THE REQUIREMENTS OF ASTM C-478, EXCEPT AS NOTED ON THE PLANS.

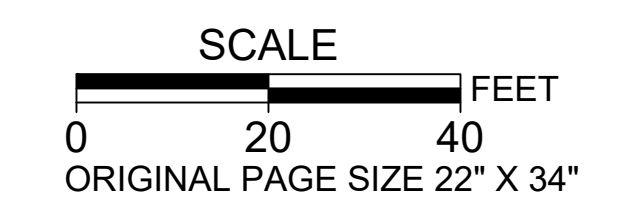
- UTILITY LEGEND**
- EXISTING SANITARY MANHOLE
  - SANITARY MANHOLE
  - EXISTING STORM MANHOLE
  - ⊙ STORM MANHOLE
  - EXISTING SANITARY LINE
  - SANITARY LINE
  - EXISTING STORM LINE
  - STORM LINE
  - EXISTING WATER LINE
  - WATER LINE
  - CATCH BASIN
  - ⊗ WATER VALVE

**31ST AVENUE  
SOUTH END TO CITY LIMITS AT SHERRETT ST**



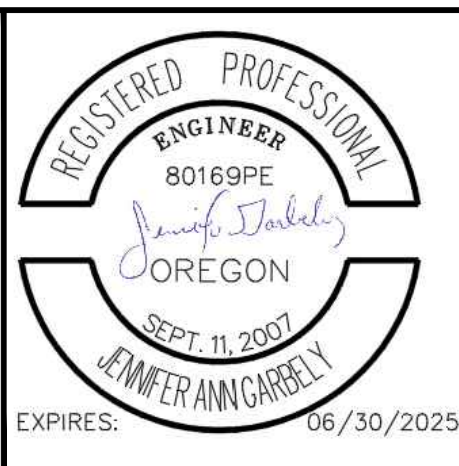
**STRM CB S**  
STA 0+00 TO STA 0+29  
HOR: 1" = 20' ; VERT: 1" = 5'

STRUCTURE TABLE									
STRUCTURE NAME:	TYPE	TOP OF CURB ELEV	IE OUT	PIPE	SUMP	LENGTH	STATION & OFFSET	ALIGNMENT	
STRM CB R-1	G-2 CB	127.72'	123.83	8"	121.83	13.55 LF	0+00.00 0.00	SDLN-R	
STRM CB R-2	G-2 CB	127.75'	122.00	12" PVC	120.00	4.75 LF	0+18.30 0.00	SDLN-R	
STRM CB S-1	G-2 CB	145.05'	143.80	8"	141.80	24.57 LF	0+00.00 0.00	SDLN-S	
STRM CB S-2	G-2 CB	145.04'	142.56	8"	140.56	4.83 LF	0+29.40 0.00	SDLN-S	
STRM CB N-2	G-2 CB	132.42'	129.56	12" PVC	127.56	149.17 LF	1+65.05 0.00	SDLN-N	



NO.	DATE	BY	REVISIONS

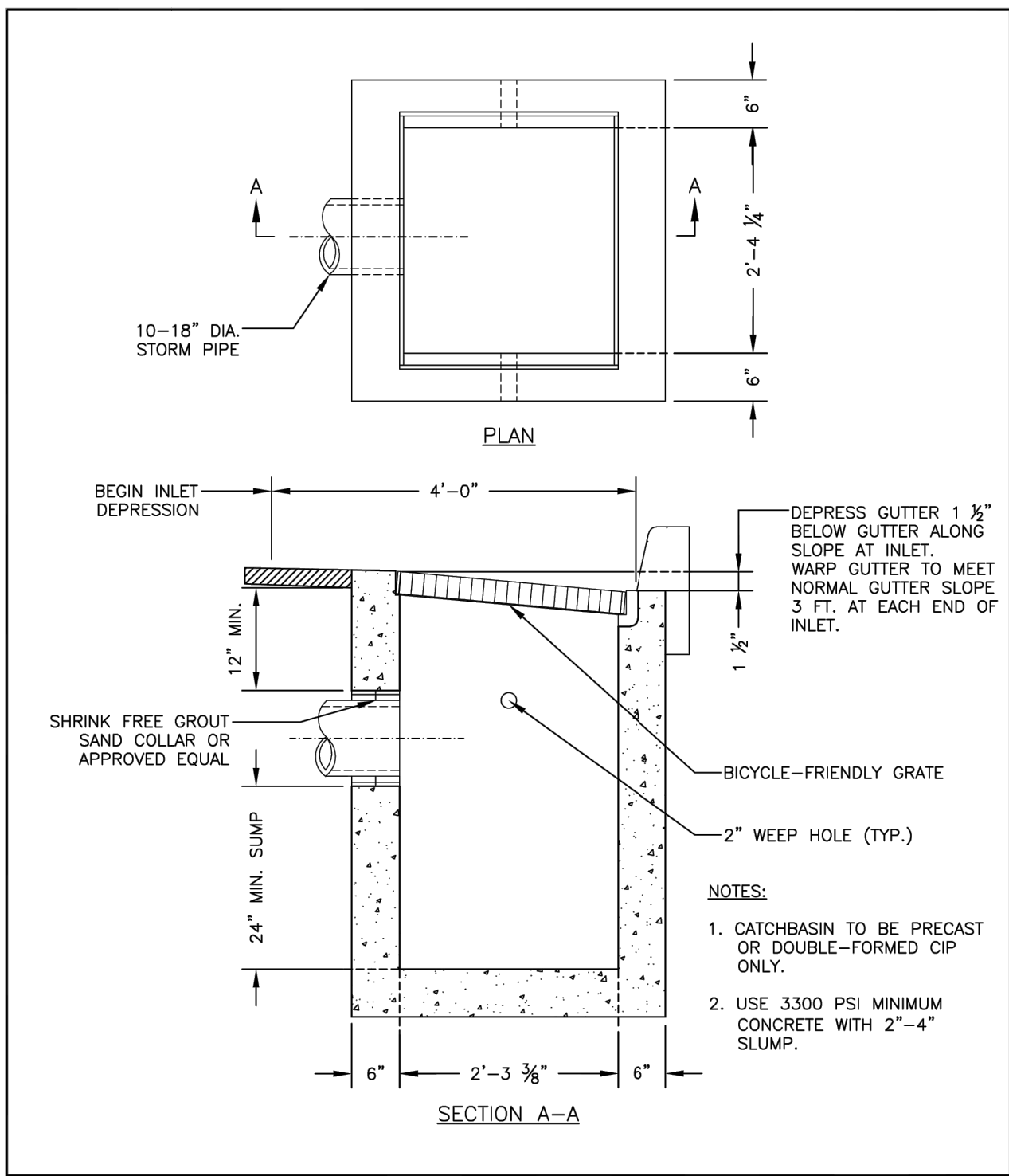
TAP DESIGNED	3/11/2022	DATE
JRN DRAFTED	9/13/2024	DATE
JAG CHECKED	9/16/2024	DATE
APPROVED		DATE



**CITY OF MILWAUKIE**  
 10501 SE MAIN STREET  
 MILWAUKIE, OR 97222  
 PHONE: 503-786-7600  
 FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**  
 STORMWATER CONSTRUCTION  
 31ST AVE

PROJECT NO.:	W61	SHEET NO.:	59 OF 93	DATE:	9/13/2024	SHEET:	C207
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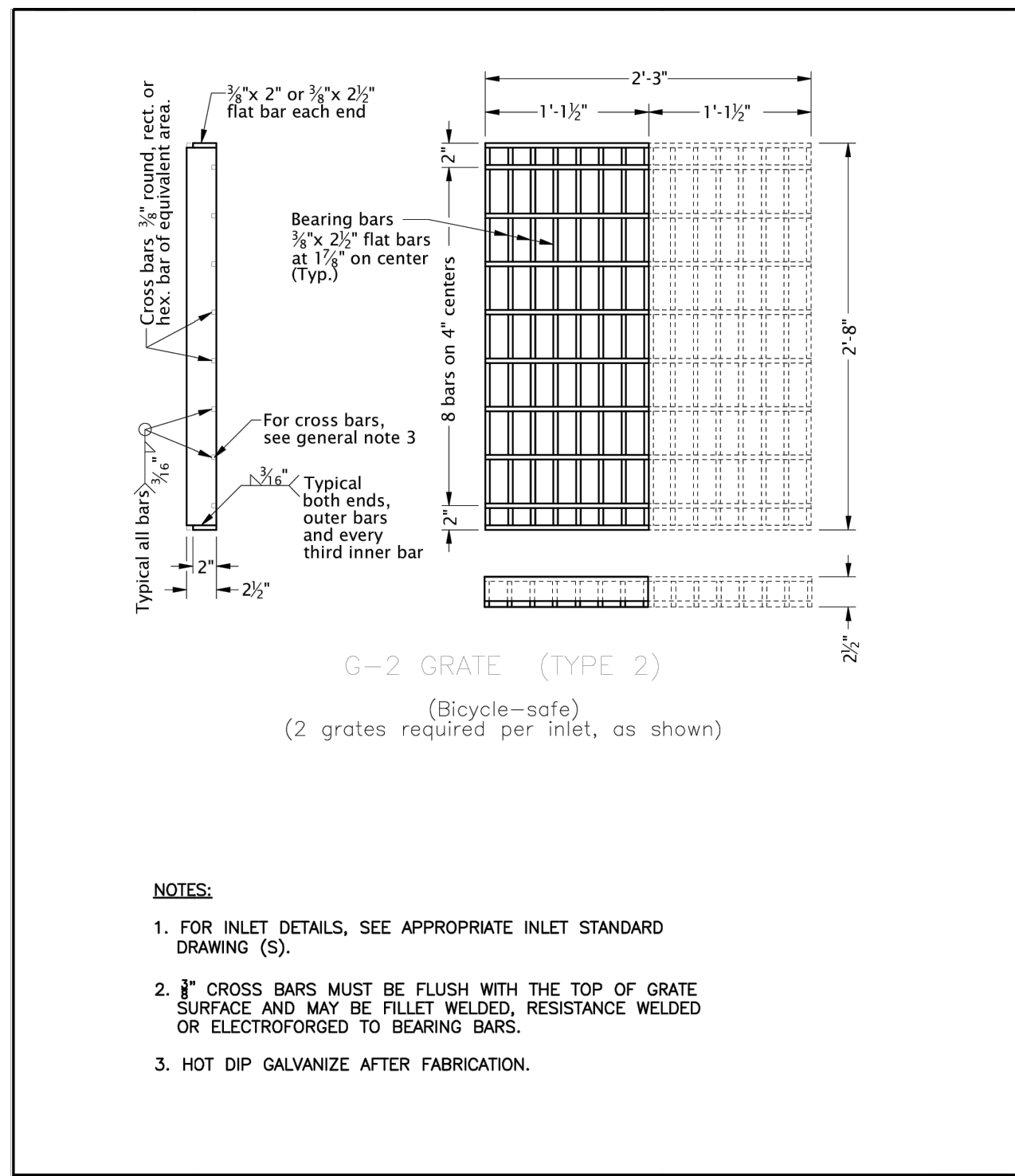
CITY OF MILWAUKIE, OREGON - PUBLIC WORKS DEPT.

**G-2 Catchbasin**

NO.	REVISIONS	DATE	BY
1	ADJUST MIN. PIPE SIZE, FORMATING	12/10	MCP
2	RENUMBERED DRAWING	11/18	TAP
3	RENUMBERED DRAWING	08/19	TAP

APPROVED: [Signature] 01/2021  
CITY ENGINEER

DRAWING NO. 201



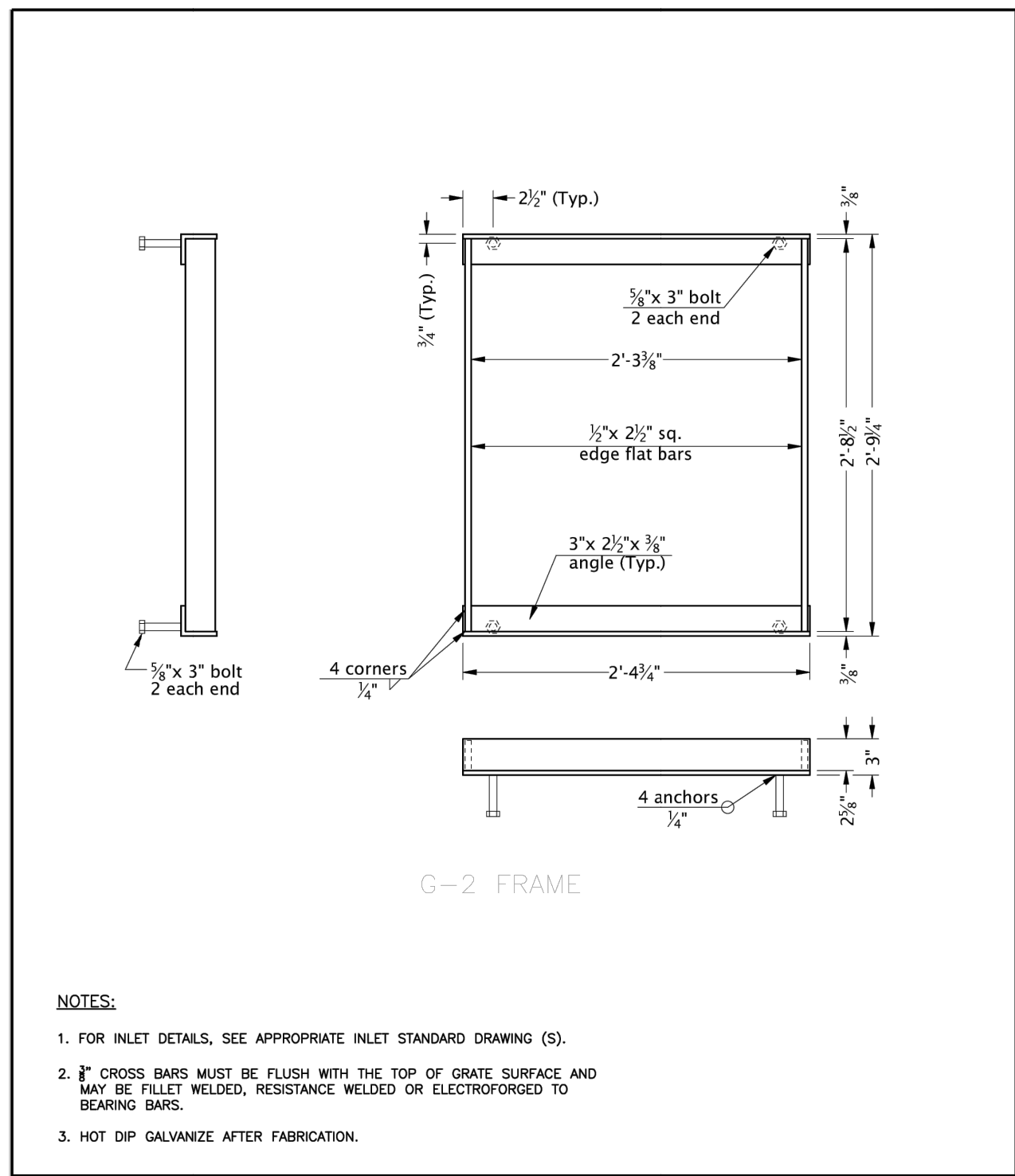
CITY OF MILWAUKIE, OREGON - PUBLIC WORKS DEPT.

**G-2 Catchbasin Grate**

NO.	REVISIONS	DATE	BY
1	RECREATED DRAWING	12/10	MCP
2	DRAWING RENAMERED	11/18	TAP
3	DRAWING RENAMERED, NOTE CHANGED	08/19	TAP

APPROVED: [Signature] 01/2021  
CITY ENGINEER

DRAWING NO. 204



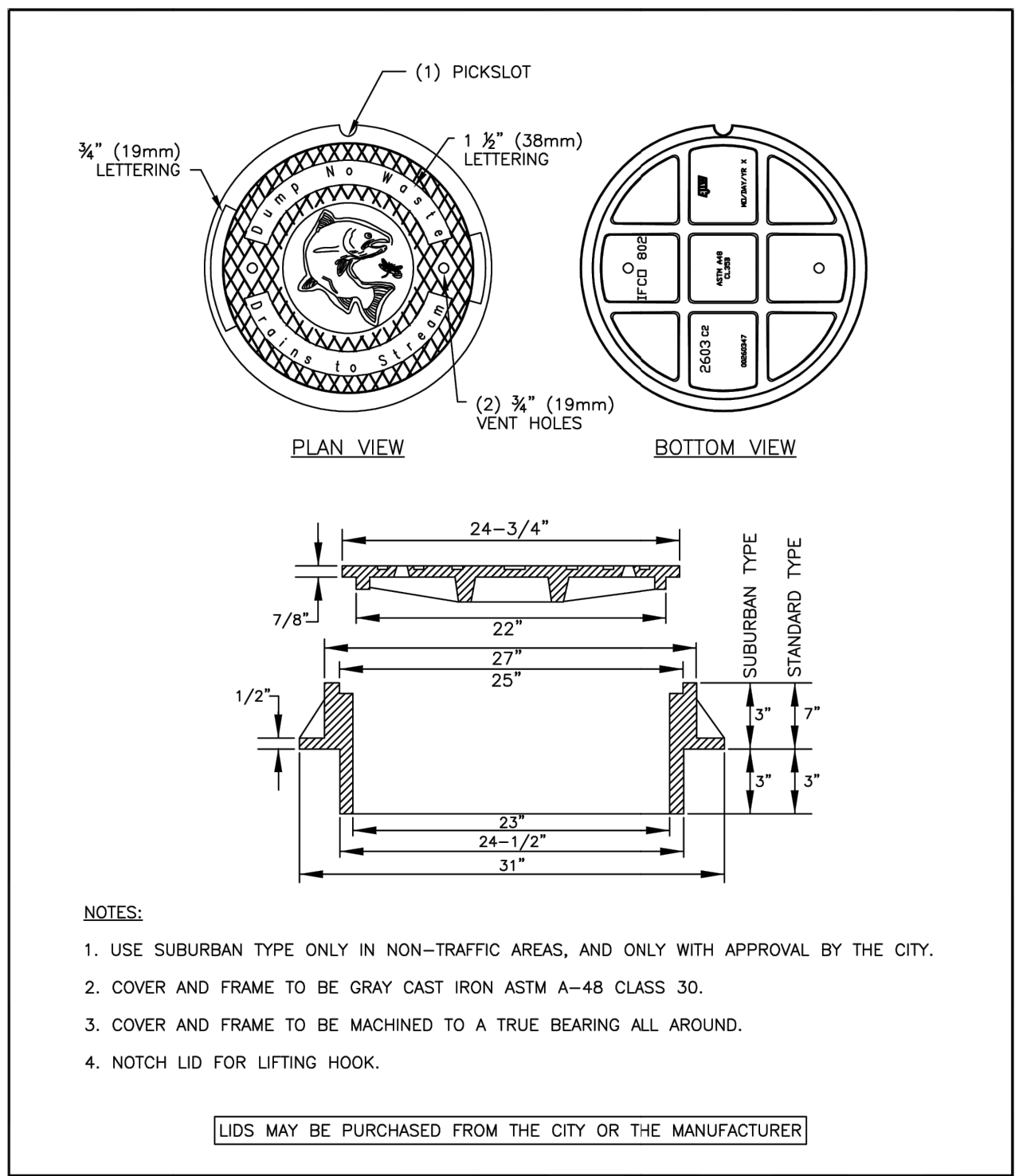
CITY OF MILWAUKIE, OREGON - PUBLIC WORKS DEPT.

**G-2 Catchbasin Frame**

NO.	REVISIONS	DATE	BY
1	RECREATED DRAWING	12/10	MCP
2	DRAWING RENAMERED	11/18	TAP
3	DRAWING RENAMERED, NOTE CHANGED	08/19	TAP

APPROVED: [Signature] 01/2021  
CITY ENGINEER

DRAWING NO. 205



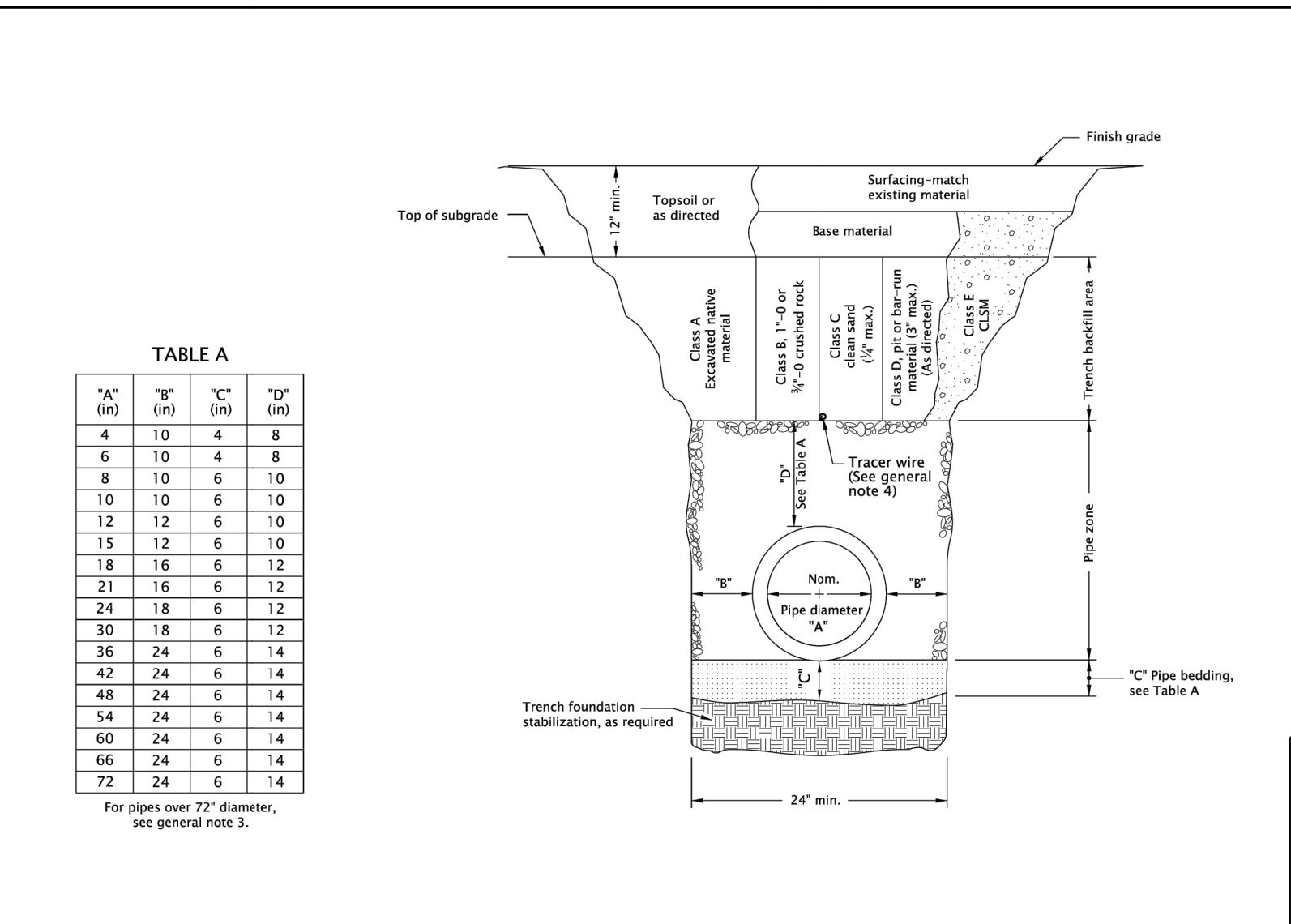
CITY OF MILWAUKIE, OREGON - PUBLIC WORKS DEPT.

**Storm Manhole Frame and Lid**

NO.	REVISIONS	DATE	BY
3	CHANGED LID DETAIL	12/10	MCP
4	CHANGED DRAWING NUMBER	11/18	TAP
5	RENUMBERED DRAWING, NOTE CHANGED	08/19	TAP

APPROVED: [Signature] 01/2021  
CITY ENGINEER

DRAWING NO. 208



MULTIPLE INSTALLATIONS

DIAMETER	MIN. SPACE BETWEEN PIPES
Up to 48"	24"
48" to 72"	One half (1/2) dia. of pipe

- GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:
- Surfacing of paved areas shall comply with street cut Std. Dwg. RD302.
  - For pipe installation in embankment areas where the trench method will not be used and the pipe is > 36" diameter, increase dimension "B" to nominal pipe diameter.
  - Pipes over 72" diameter are structures, and are not applicable to this drawing.
  - See Std. Dwg. RD336 for tracer wire details (When required).

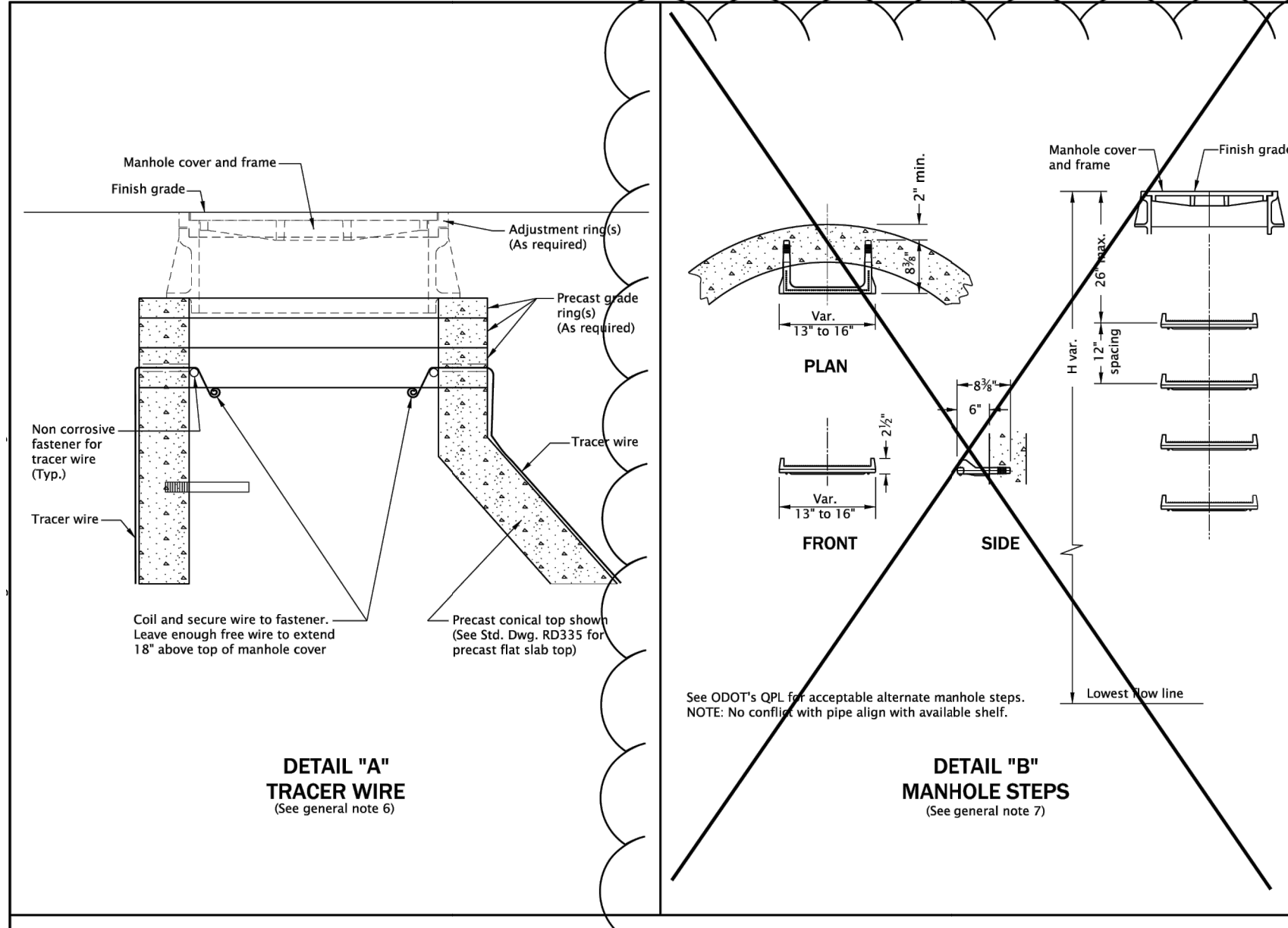
OREGON STANDARD DRAWINGS

**TRENCH BACKFILL, BEDDING, PIPE ZONE AND MULTIPLE INSTALLATIONS**

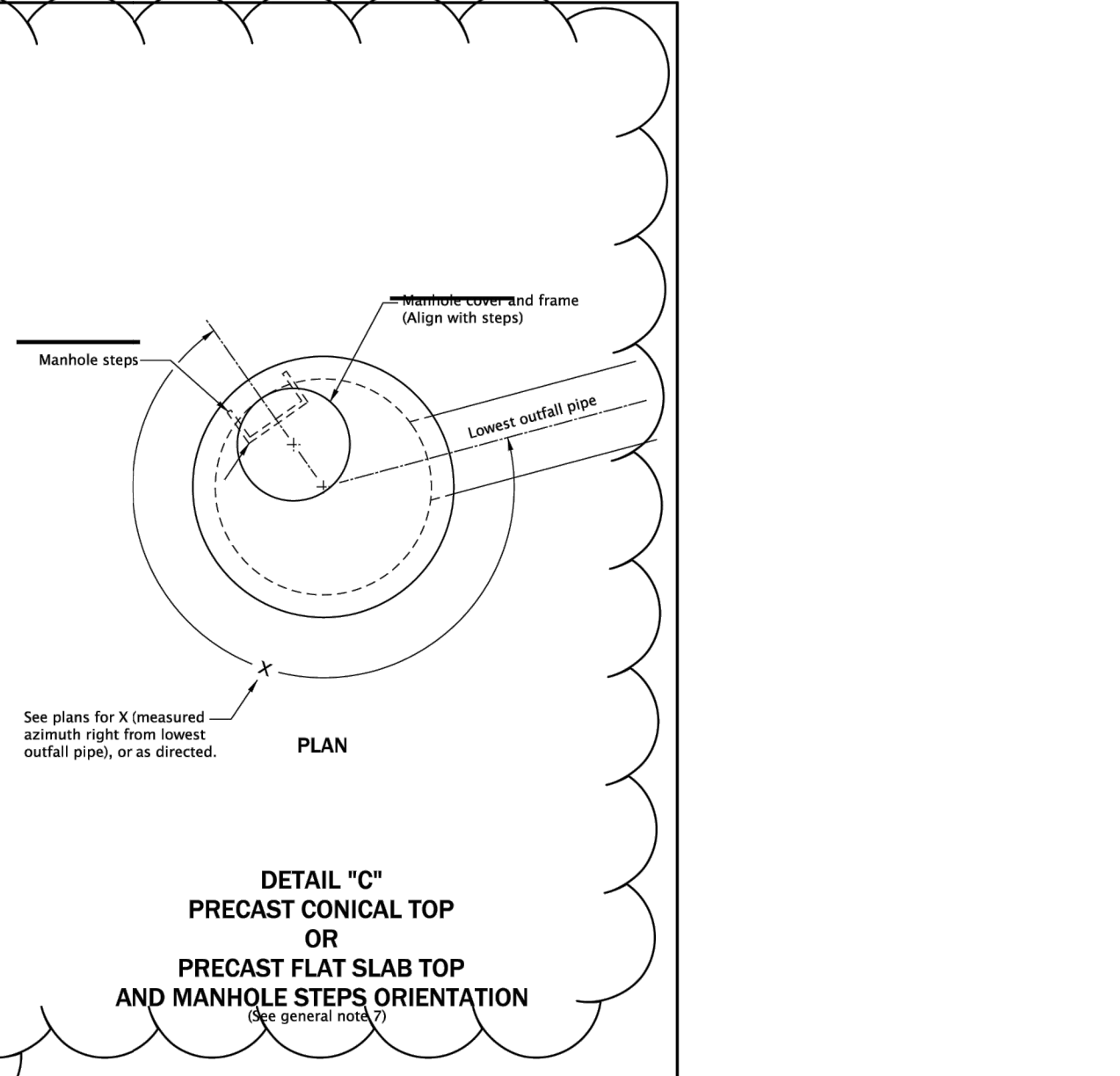
2024

RD300

Effective Date: December 1, 2023 - May 31, 2024



- GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:
- All precast products shall conform to requirements of ASTM C478.
  - Standard precast manhole section diameter shall be 48". Use 42" if specified by the Engineer.
  - See Std. Dwg. RD345 for pipe to manhole connections.
  - See Std. Dwg. RD344 for manhole base section.
  - Adjust 24" maximum.
  - All connecting pipes shall have a tracer wire, or approved alternate. Place tracer wire directly over pipe centerline and on top of the pipe zone material.
  - Steps shall conform to requirements of ASTM C478.
  - See Detail "C" for alignment of steps, and manhole cover and frame.
  - See Std. Dwg. RD335 for details not shown.
  - See Std. Dwg. RD335 for manhole covers and frames, manhole adjustment rings, etc.
  - Max. pipe diameter varies with pipe material.
  - See Std. Dwg. RD342 for shallow manholes.
  - See project plans for details not shown.



OREGON STANDARD DRAWINGS

**STANDARD MANHOLE DETAILS "AS MODIFIED BY CITY OF MILWAUKIE"**

2024

RD336

NO.	DATE	BY	REVISIONS
		TAP	DESIGNED 3/11/2022
		JRN	DRAFTED 9/13/2024
		JAG	CHECKED 9/16/2024
			APPROVED

REGISTERED PROFESSIONAL ENGINEER

90169PE

JENNIFER J. JAKELY

OREGON

SEPT. 11, 2007

JENNIFER ANN GAREELY

EXPIRES: 06/30/2025

CITY OF MILWAUKIE

10501 SE MAIN STREET  
MILWAUKIE, OR 97222

PHONE: 503-786-7600  
FAX: 503-774-8236

ARDENWALD NORTH IMPROVEMENTS

STORM STANDARD DRAWINGS

PROJECT NO.: W61

SHEET NO.: 60 OF 93

DATE: 9/13/2024

SHEET: C208

**LEGEND**  
 Cast-in-Place concrete  
 Precast concrete  
 1:2 cement mortar  
 Sewer pipe

**GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:**  
 1. Minimum length for laterals or connections are inserted: outside diameter of pipe + 17".  
 2. Use Section B-B when length of riser becomes less than minimum shown.  
 3. Base may be precast or cast-in-place.  
 4. All precast products shall conform to the requirements of ASTM C478.  
 5. See Std. Dwg. RD344 for details not shown.  
 6. See Std. Dwg. RD344 for manhole base section.  
 7. See Std. Dwg. RD345 for pipe to manhole connections.  
 8. See Std. Dwg. RD336 for manhole covers and frames.  
 9. All concrete shall be commercial grade concrete.  
 10. Max. pipe diameter varies with pipe material.  
 11. Location, elevation, diameter, slope, and number of pipe(s) varies, see project plans.

**Effective Date:** December 1, 2023 – May 31, 2024

**GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:**  
 1. All concrete shall be commercial grade concrete.  
 2. Channels shall be constructed to provide smooth slopes and radii to outlet pipe.  
 3. Bases may be precast or cast in place.  
 4. Max. pipe diameter varies with pipe material.  
 5. Use on 42" and 48" diameter manhole.  
 6. Extend pipe into manhole and grout smooth. Pipe(s) may extend 2" max. beyond the interior manhole wall.  
 7. Location, elevation, diameter, slope, and number of pipe(s) varies, see project plans.  
 8. All precast products shall conform to the requirements of ASTM C478.  
 9. See Std. Dwg. RD345 for pipe to manhole connections.  
 10. See Std. Dwg. RD336 for manhole steps details.  
 11. See Std. Dwg. RD336 for tracer wire details.  
 12. At spring line of pipe, extend channel up to crown line on 12:1 batter.

**Effective Date:** December 1, 2023 – May 31, 2024

**GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:**  
 1. All precast sections shall conform to requirements of ASTM C478.  
 2. Manhole base sections may be precast or cast-in-place.  
 3. All concrete shall be commercial grade concrete.  
 4. Location, elevation, diameter, slope, and number of pipe(s) varies, see project plans.  
 5. Maximum pipe diameter varies with pipe material.  
 6. All connecting pipes shall have a tracer wire, or approved alternate. See Std. Dwg. RD336 for tracer wire details.  
 7. Invert channels shall be constructed to provide smooth slopes and radii to outlet pipe.  
 8. When flexible pipe is used, install resilient connectors conforming to requirements of ASTM C922.  
 9. See Std. Dwg. RD335, RD336, and RD338 for details not shown.  
 10. See Std. Dwg. RD336 for manhole steps details.  
 11. See Std. Dwg. RD342 for shallow manholes.  
 12. See Std. Dwg. RD344 for manhole base section.  
 13. See Std. Dwg. RD356 for manhole covers and frames, manhole adjustment rings, etc.  
 14. Pipe zone varies, see Std. Dwg. RD300.

**Effective Date:** December 1, 2023 – May 31, 2024

**GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:**  
 1. For inlet details, see appropriate inlet standard drawings.  
 2. For frame and grate details, see Std. Dwg. RD365.  
 3. For curb details, see Std. Dwg. RD700 & RD701.  
 4. All concrete shall be commercial grade concrete.  
 5. Pay limit for inlet is expanded when curb and gutter are monolithic.

**Effective Date:** December 1, 2023 – May 31, 2024

NO.	DATE	BY	REVISIONS

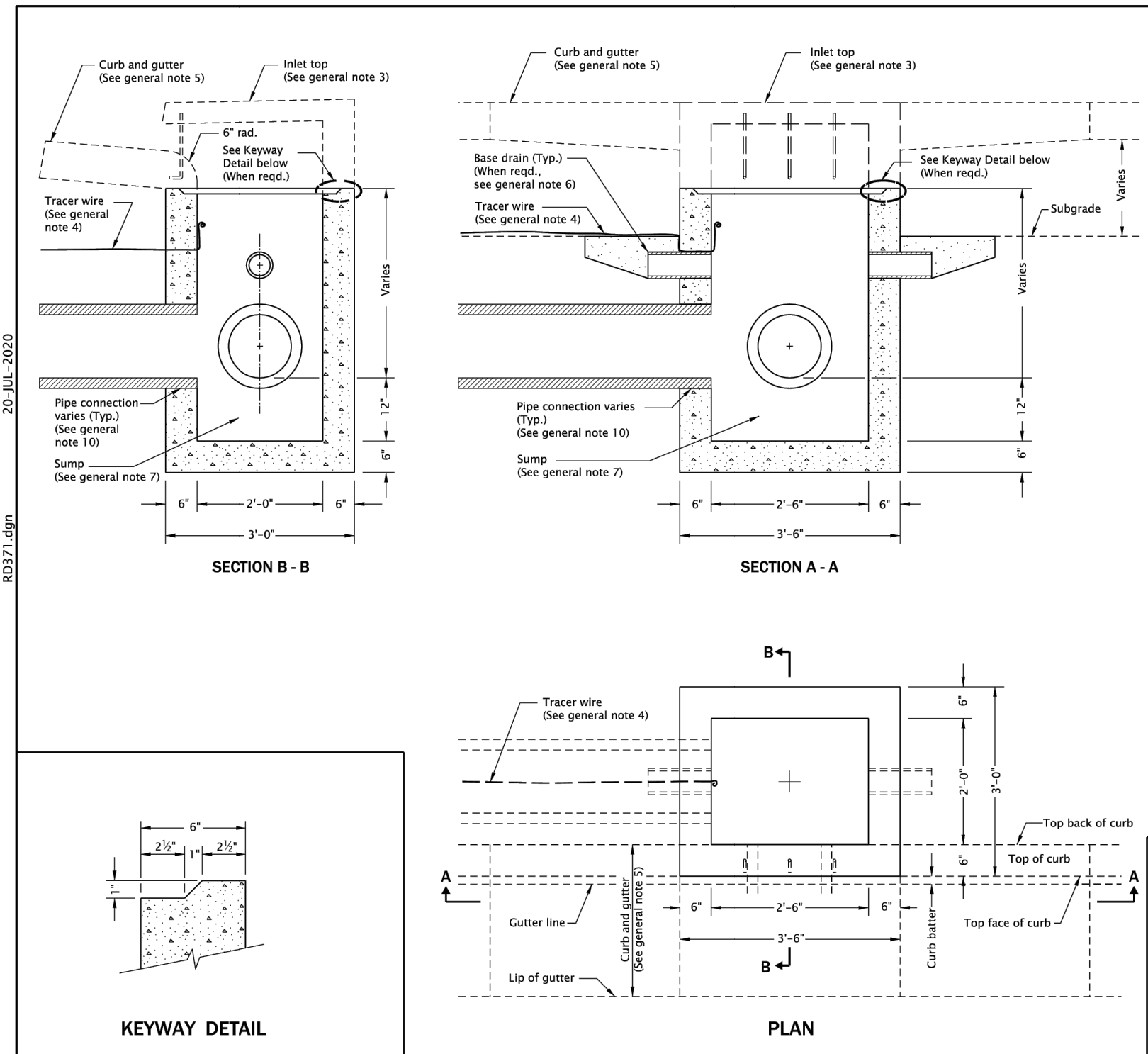
TAP DESIGNED 3/11/2022 DATE  
 JRN 9/13/2024 DATE  
 DRAFTED DATE  
 JAG 9/16/2024 DATE  
 CHECKED DATE  
 APPROVED DATE

**REGISTERED PROFESSIONAL ENGINEER**  
 90169PE  
 Jennifer J. Jankel  
 OREGON  
 SEPT. 11, 2007  
 KENNETH ANN GARRETT

**CITY OF MILWAUKIE**  
 10501 SE MAIN STREET  
 MILWAUKIE, OR 97222  
 PHONE: 503-786-7600  
 FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**  
**STORM STANDARD DRAWINGS**

PROJECT NO.: W61 SHEET NO.: 61 OF 93 DATE: 9/13/2024 SHEET: C209



**PLAN PAY LIMIT**

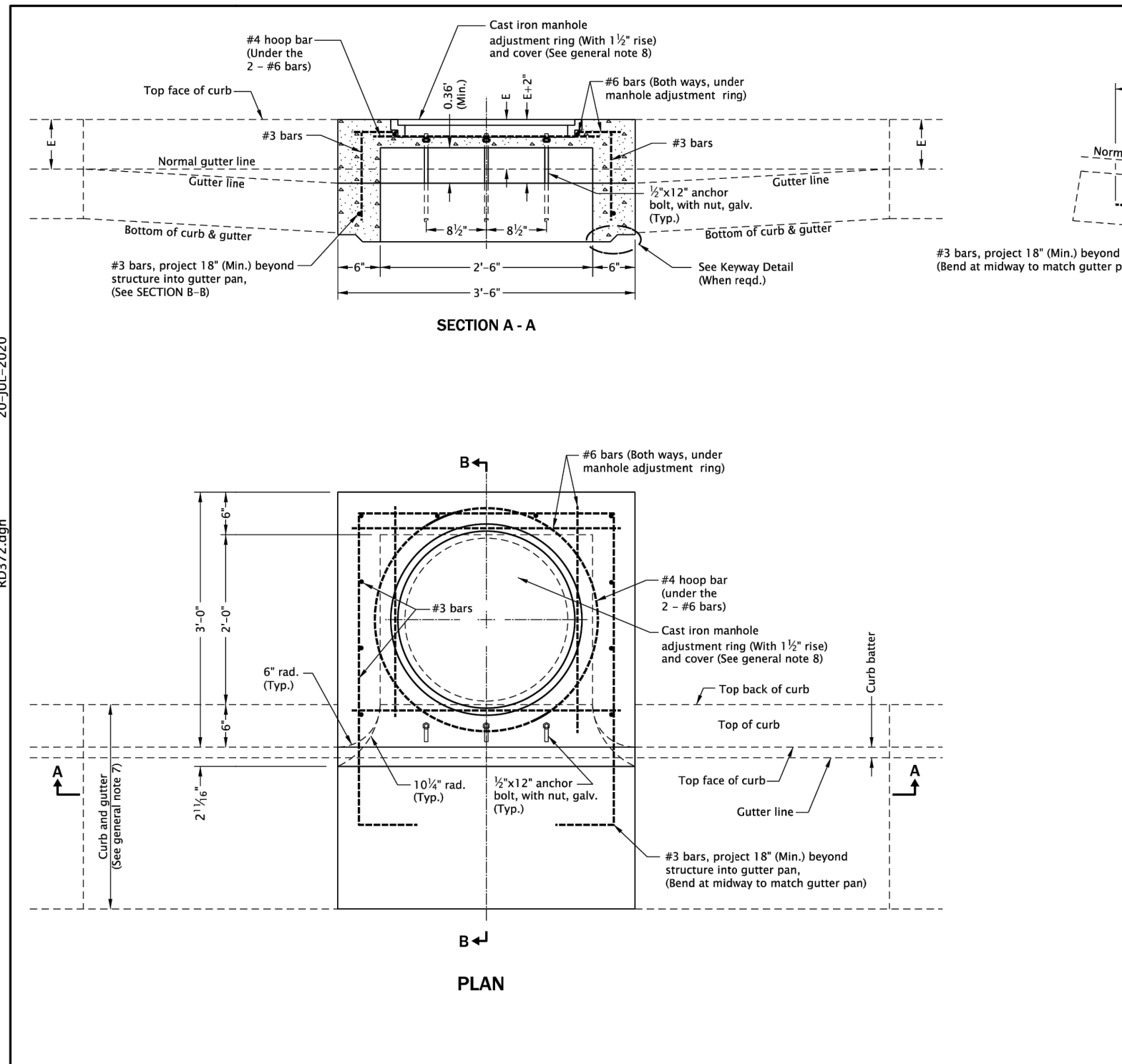
GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:

- All concrete shall be commercial grade concrete.
- Inlet base may be cast-in-place or precast. Where precast inlet base is used as an alternate, a 4" compacted leveling bed of sand or 1/2" crushed aggregate shall be provided. All precast inlets shall conform to requirements of ASTM C913.
- See Std. Dwg. RD372 & RD373 for inlet top details.
- See Std. Dwg. RD336 for tracer wire details, or approved alternate.
- See Std. Dwg. RD700 & RD701 for curb and gutter details.
- See Std. Dwg. RD364 for base drain details.
- Provide sump only where shown on plans, and allowed by jurisdiction. For sump details, see Std. Dwg. RD364.
- Location, elevation, diameter, slope, and number of pipe(s) varies, see project plans.
- Max. pipe diameter varies with pipe material.
- See Std. Dwg. RD339 for pipe to structure connections.

*The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.*

All materials shall be in accordance with the current Oregon Standard Specifications.			
<b>OREGON STANDARD DRAWINGS</b>			
<b>CONCRETE INLET BASE</b>			
<b>TYPE CG-3</b>			
2024			
DATE	REVISION DESCRIPTION		
SCALE	N/A	SR	24-JAN-2015
RD371			

Effective Date: December 1, 2023 – May 31, 2024



**KEYWAY DETAIL**

GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:

- All concrete shall be commercial grade concrete.
- Inlet top may be cast-in-place or precast. All precast inlets shall conform to requirements of ASTM C913.
- All reinforcement shall be 2" clear of nearest face of conc., unless otherwise shown.
- Vary anchor bolt length and reinforcing bar placement as required by curb exposure E (See note 7 below).
- See Std. Dwg. RD371 for inlet base details.
- See Std. Dwg. RD371 for inlet pay limit.
- See Std. Dwg. RD700 & RD701 for curb and gutter details.
- See Std. Dwg. RD356 for cast iron manhole adjustment ring and cover.

*The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.*

All materials shall be in accordance with the current Oregon Standard Specifications.			
<b>OREGON STANDARD DRAWINGS</b>			
<b>CONCRETE INLET TOP</b>			
<b>OPTION 1, TYPE CG-3</b>			
2024			
DATE	REVISION DESCRIPTION		
SCALE	N/A	SR	16-JAN-2015
RD372			

Effective Date: December 1, 2023 – May 31, 2024

NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
JRN DRAFTED	9/13/2024	DATE
JAG CHECKED	9/16/2024	DATE
APPROVED		DATE



**CITY OF MILWAUKIE**

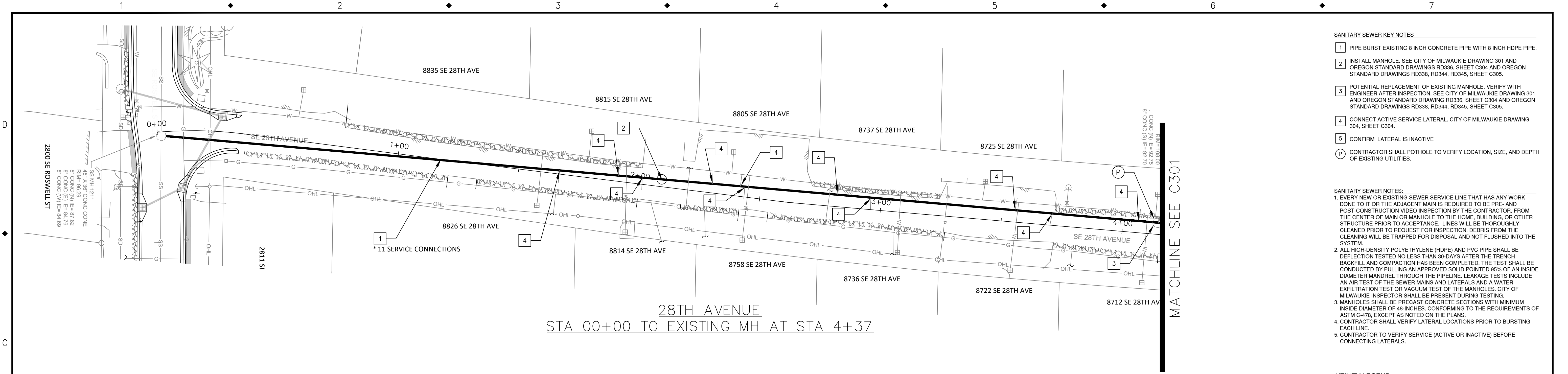
10501 SE MAIN STREET  
MILWAUKIE, OR 97222

PHONE: 503-786-7600  
FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**

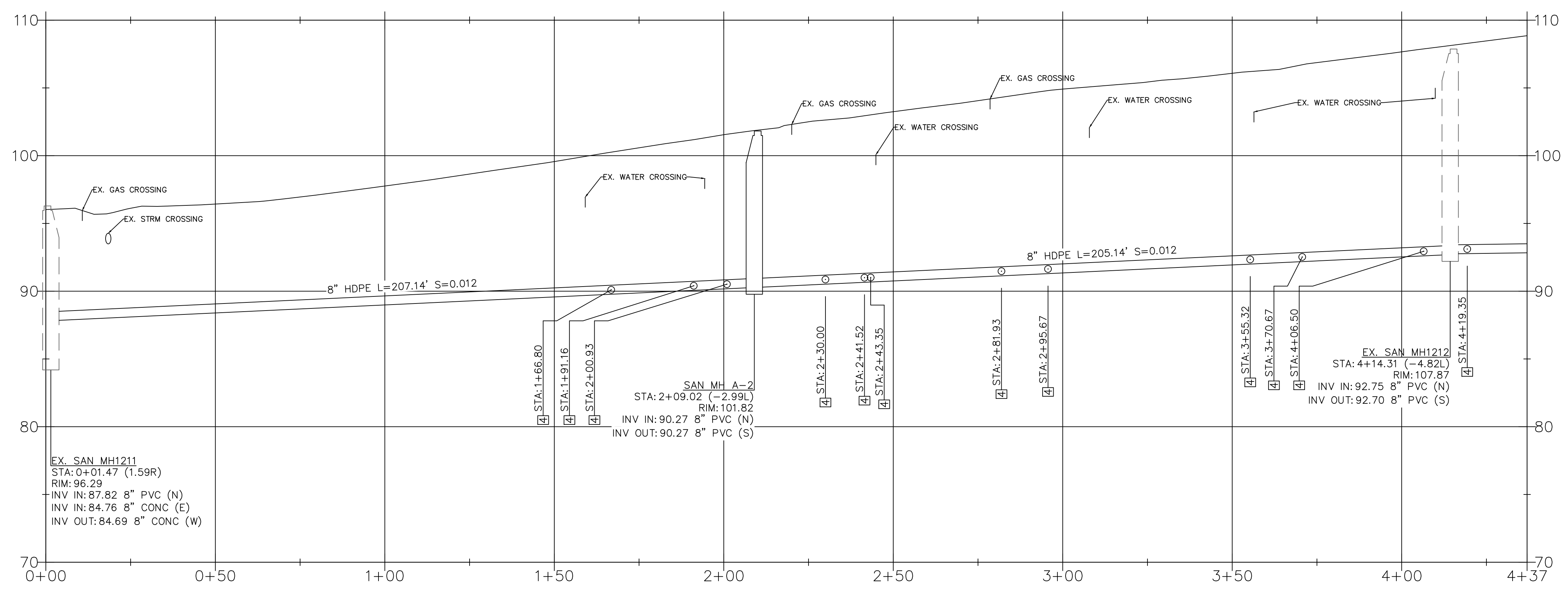
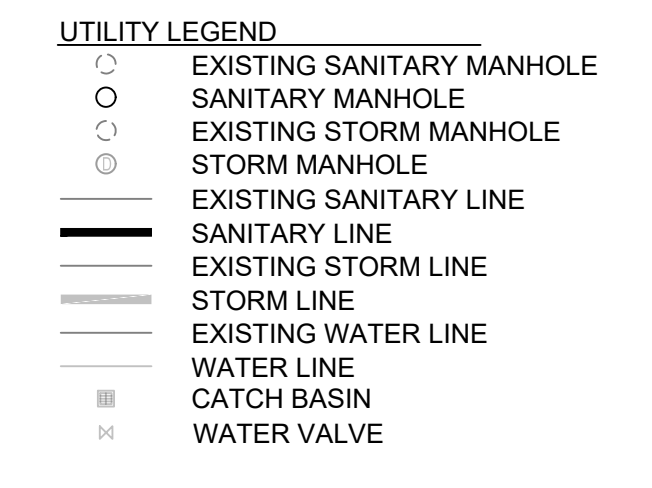
STORM STANDARD DRAWINGS

PROJECT NO.:	W61	SHEET NO.:	62 OF 93	DATE:	9/13/2024	SHEET:	C210
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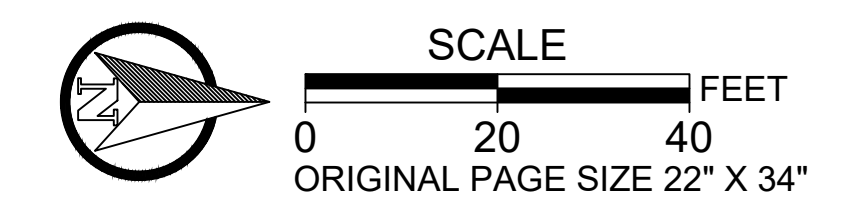


- SANITARY SEWER KEY NOTES**
- 1 PIPE BURST EXISTING 8 INCH CONCRETE PIPE WITH 8 INCH HDPE PIPE.
  - 2 INSTALL MANHOLE. SEE CITY OF MILWAUKIE DRAWING 301 AND OREGON STANDARD DRAWINGS RD338, RD344, RD345, SHEET C305.
  - 3 POTENTIAL REPLACEMENT OF EXISTING MANHOLE. VERIFY WITH ENGINEER AFTER INSPECTION. SEE CITY OF MILWAUKIE DRAWING 301 AND OREGON STANDARD DRAWINGS RD338, RD344, RD345, SHEET C305.
  - 4 CONNECT ACTIVE SERVICE LATERAL. CITY OF MILWAUKIE DRAWING 304, SHEET C304.
  - 5 CONFIRM LATERAL IS INACTIVE
  - P CONTRACTOR SHALL POTHOLE TO VERIFY LOCATION, SIZE, AND DEPTH OF EXISTING UTILITIES.

- SANITARY SEWER NOTES:**
1. EVERY NEW OR EXISTING SEWER SERVICE LINE THAT HAS ANY WORK DONE TO IT OR THE ADJACENT MAIN IS REQUIRED TO BE PRE- AND POST-CONSTRUCTION VIDEO INSPECTION BY THE CONTRACTOR, FROM THE CENTER OF MAIN OR MANHOLE TO THE HOME, BUILDING, OR OTHER STRUCTURE PRIOR TO ACCEPTANCE. LINES WILL BE THOROUGHLY CLEANED PRIOR TO REQUEST FOR INSPECTION. DEBRIS FROM THE CLEANING WILL BE TRAPPED FOR DISPOSAL AND NOT FLUSHED INTO THE SYSTEM.
  2. ALL HIGH-DENSITY POLYETHYLENE (HDPE) AND PVC PIPE SHALL BE DEFLECTION TESTED NO LESS THAN 30-DAYS AFTER THE TRENCH BACKFILL AND COMPACTION HAS BEEN COMPLETED. THE TEST SHALL BE CONDUCTED BY PULLING AN APPROVED SOLID POINTED 95% OF AN INSIDE DIAMETER MANDREL THROUGH THE PIPELINE. LEAKAGE TESTS INCLUDE AN AIR TEST OF THE SEWER MAINS AND LATERALS AND A WATER INFILTRATION TEST OR VACUUM TEST OF THE MANHOLES. CITY OF MILWAUKIE INSPECTOR SHALL BE PRESENT DURING TESTING.
  3. MANHOLES SHALL BE PRECAST CONCRETE SECTIONS WITH MINIMUM INSIDE DIAMETER OF 48-INCHES, CONFORMING TO THE REQUIREMENTS OF ASTM C-478, EXCEPT AS NOTED ON THE PLANS.
  4. CONTRACTOR SHALL VERIFY LATERAL LOCATIONS PRIOR TO BURSTING EACH LINE.
  5. CONTRACTOR TO VERIFY SERVICE (ACTIVE OR INACTIVE) BEFORE CONNECTING LATERALS.

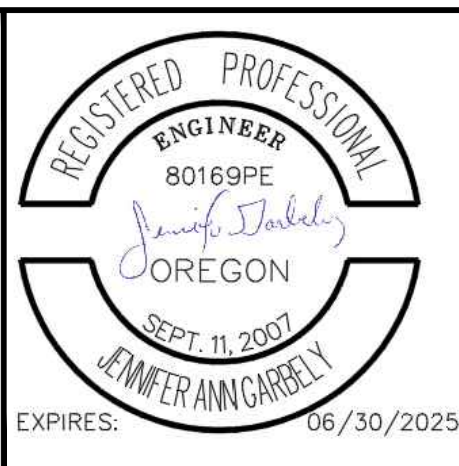


28TH AVENUE  
 STA 0+00 TO STA 4+37  
 HOR: 1" = 20' ; VERT: 1" = 5'



NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
JRN DRAFTED	9/13/2024	DATE
JAG CHECKED	9/16/2024	DATE
APPROVED		DATE



**CITY OF MILWAUKIE**

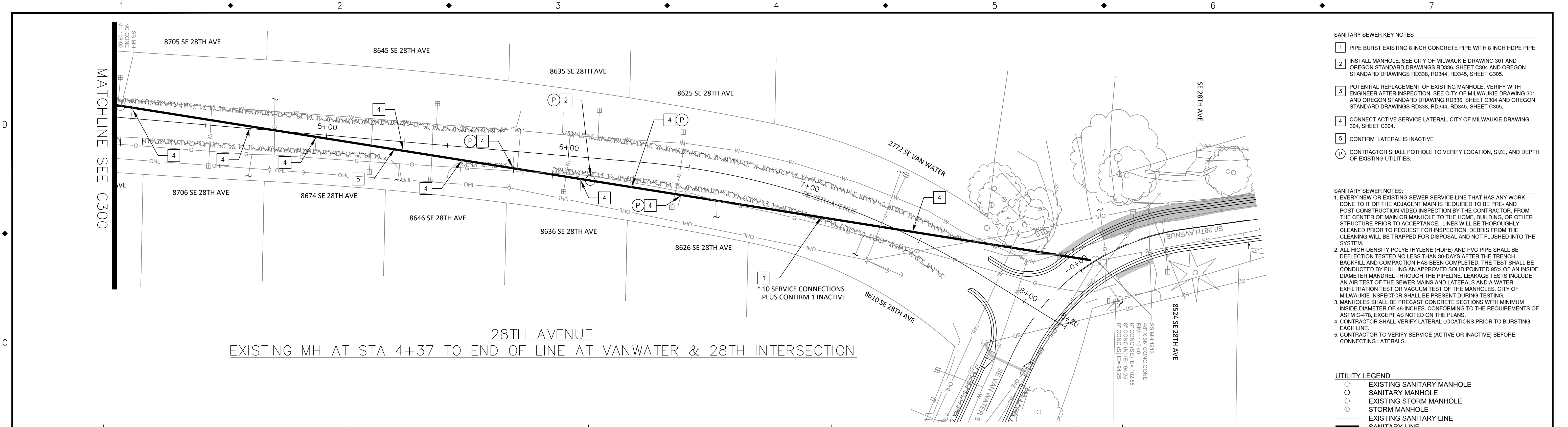
10501 SE MAIN STREET  
 MILWAUKIE, OR 97222

PHONE: 503-786-7600  
 FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**

SANITARY SEWER CONSTRUCTION  
 28TH AVE & ROSWELL ST

PROJECT NO.: W61    SHEET NO.: 63 OF 93    DATE: 9/13/2024    SHEET: C300

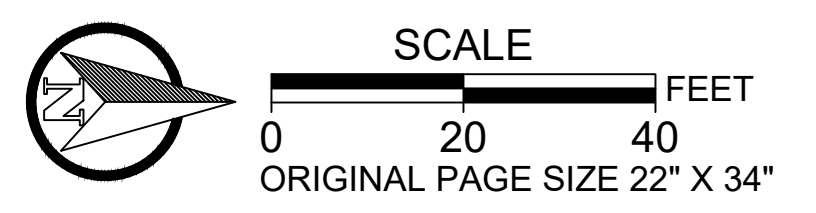
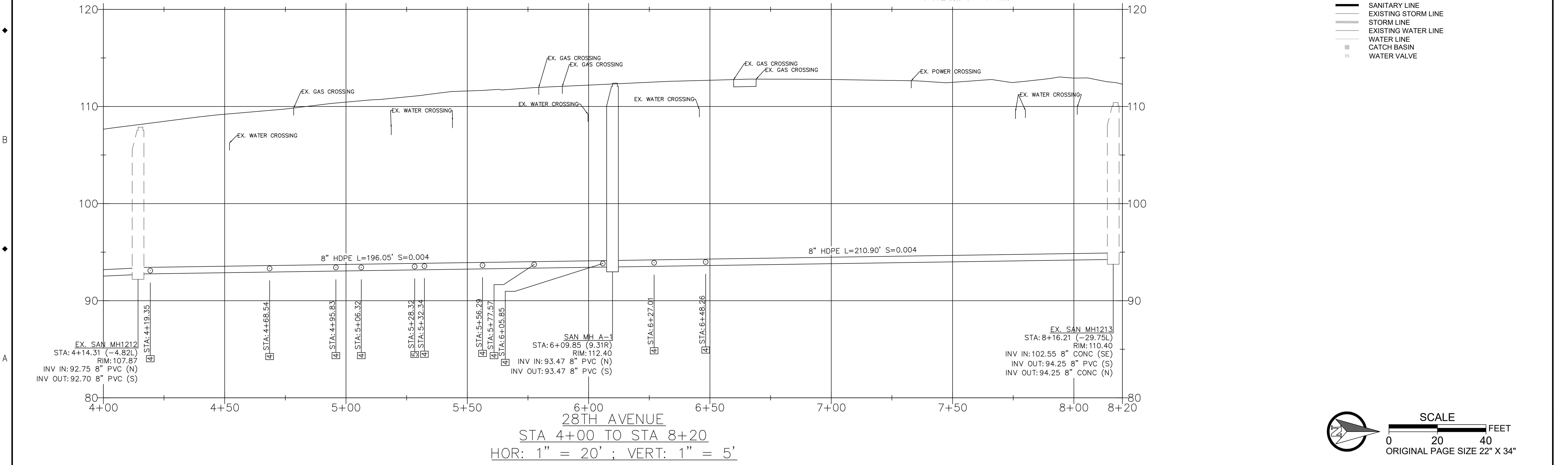


- SANITARY SEWER KEY NOTES**
- PIPE BURST EXISTING 8 INCH CONCRETE PIPE WITH 8 INCH HDPE PIPE.
  - INSTALL MANHOLE. SEE CITY OF MILWAUKIE DRAWING 301 AND OREGON STANDARD DRAWINGS RD338, RD344, RD345, SHEET C305.
  - POTENTIAL REPLACEMENT OF EXISTING MANHOLE. VERIFY WITH ENGINEER AFTER INSPECTION. SEE CITY OF MILWAUKIE DRAWING 301 AND OREGON STANDARD DRAWINGS RD338, RD344, RD345, SHEET C305.
  - CONNECT ACTIVE SERVICE LATERAL. CITY OF MILWAUKIE DRAWING 304, SHEET C304.
  - CONFIRM LATERAL IS INACTIVE
  - CONTRACTOR SHALL POTHOLE TO VERIFY LOCATION, SIZE, AND DEPTH OF EXISTING UTILITIES.

- SANITARY SEWER NOTES:**
- EVERY NEW OR EXISTING SEWER SERVICE LINE THAT HAS ANY WORK DONE TO IT OR THE ADJACENT MAIN IS REQUIRED TO BE PRE- AND POST-CONSTRUCTION VIDEO INSPECTION BY THE CONTRACTOR, FROM THE CENTER OF MAIN OR MANHOLE TO THE HOME, BUILDING, OR OTHER STRUCTURE PRIOR TO ACCEPTANCE. LINES WILL BE THOROUGHLY CLEANED PRIOR TO REQUEST FOR INSPECTION. DEBRIS FROM THE CLEANING WILL BE TRAPPED FOR DISPOSAL AND NOT FLUSHED INTO THE SYSTEM.
  - ALL HIGH-DENSITY POLYETHYLENE (HDPE) AND PVC PIPE SHALL BE DEFLECTION TESTED NO LESS THAN 30-DAYS AFTER THE TRENCH BACKFILL AND COMPACTION HAS BEEN COMPLETED. THE TEST SHALL BE CONDUCTED BY PULLING AN APPROVED SOLID POINTED 95% OF AN INSIDE DIAMETER MANDREL THROUGH THE PIPELINE. LEAKAGE TESTS INCLUDE AN AIR TEST OF THE SEWER MAINS AND LATERALS AND A WATER INFILTRATION TEST OR VACUUM TEST OF THE MANHOLES. CITY OF MILWAUKIE INSPECTOR SHALL BE PRESENT DURING TESTING.
  - MANHOLES SHALL BE PRECAST CONCRETE SECTIONS WITH MINIMUM INSIDE DIAMETER OF 48-INCHES, CONFORMING TO THE REQUIREMENTS OF ASTM C-478, EXCEPT AS NOTED ON THE PLANS.
  - CONTRACTOR SHALL VERIFY LATERAL LOCATIONS PRIOR TO BURSTING EACH LINE.
  - CONTRACTOR TO VERIFY SERVICE (ACTIVE OR INACTIVE) BEFORE CONNECTING LATERALS.

- UTILITY LEGEND**
- EXISTING SANITARY MANHOLE
  - SANITARY MANHOLE
  - EXISTING STORM MANHOLE
  - STORM MANHOLE
  - EXISTING SANITARY LINE
  - SANITARY LINE
  - EXISTING STORM LINE
  - STORM LINE
  - EXISTING WATER LINE
  - WATER LINE
  - CATCH BASIN
  - WATER VALVE

28TH AVENUE  
EXISTING MH AT STA 4+37 TO END OF LINE AT VANWATER & 28TH INTERSECTION



NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
JRN DRAFTED	9/13/2024	DATE
JAG CHECKED	9/16/2024	DATE
APPROVED		DATE



**CITY OF MILWAUKIE**

10501 SE MAIN STREET  
MILWAUKIE, OR 97222

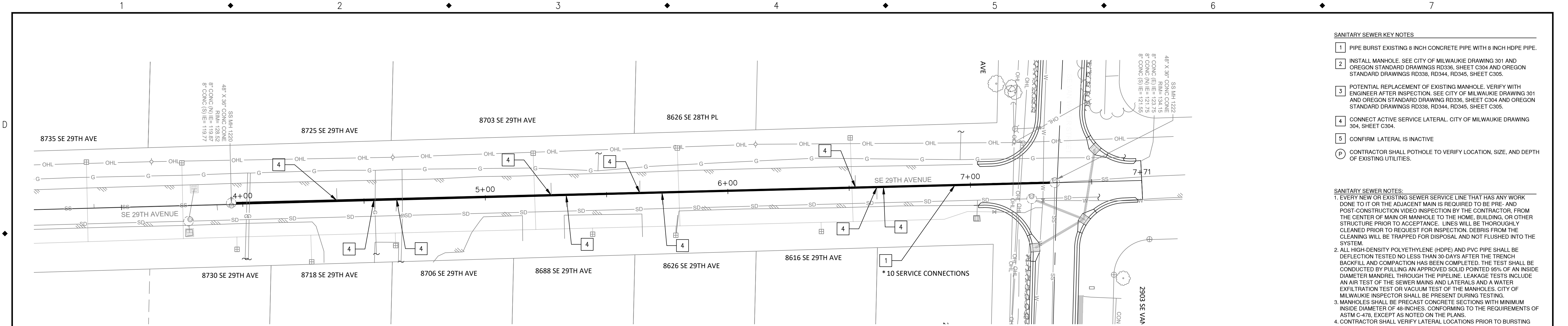
PHONE: 503-786-7600  
FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**

SANITARY SEWER CONSTRUCTION  
28TH AVE

PROJECT NO.: W61    SHEET NO.: 64 OF 93    DATE: 9/13/2024    SHEET: C301



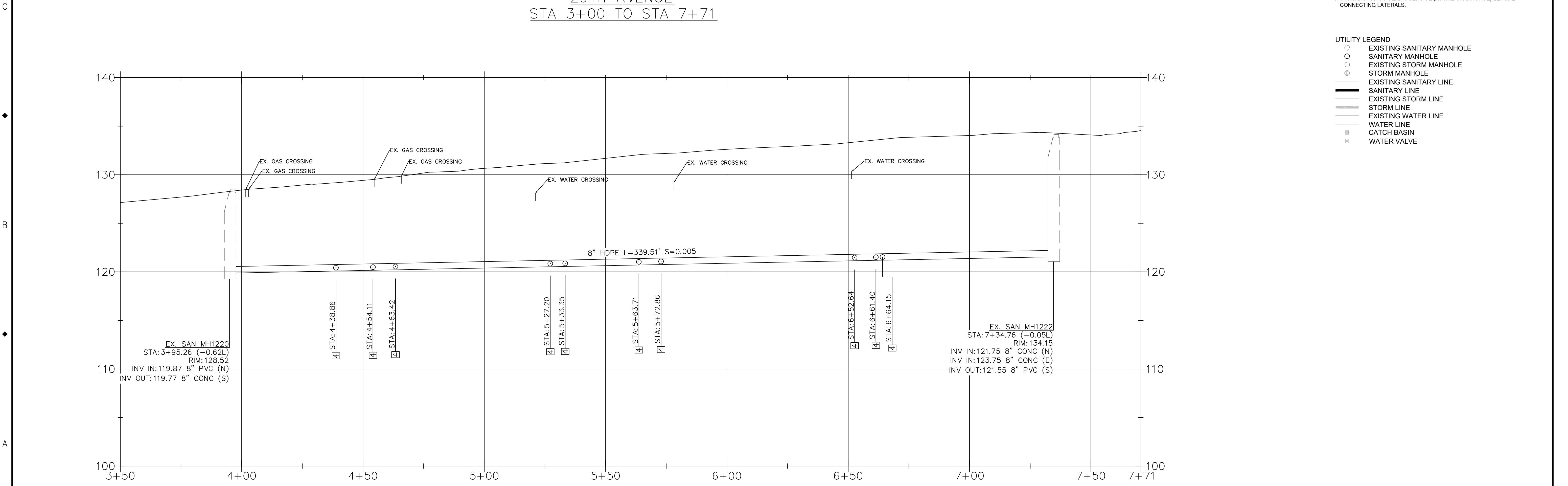


**29TH AVENUE**  
**STA 3+00 TO STA 7+71**

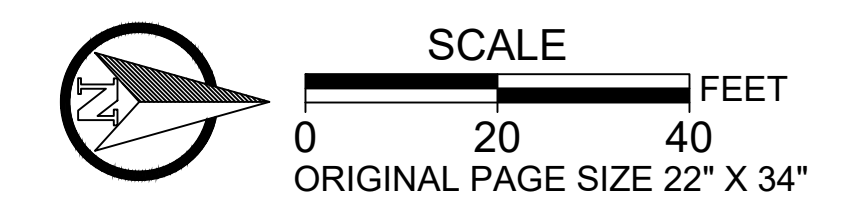
- SANITARY SEWER KEY NOTES**
- 1 PIPE BURST EXISTING 8 INCH CONCRETE PIPE WITH 8 INCH HDPE PIPE.
  - 2 INSTALL MANHOLE. SEE CITY OF MILWAUKIE DRAWING 301 AND OREGON STANDARD DRAWINGS RD338, RD344, RD345, SHEET C305.
  - 3 POTENTIAL REPLACEMENT OF EXISTING MANHOLE. VERIFY WITH ENGINEER AFTER INSPECTION. SEE CITY OF MILWAUKIE DRAWING 301 AND OREGON STANDARD DRAWING RD338, SHEET C304 AND OREGON STANDARD DRAWINGS RD338, RD344, RD345, SHEET C305.
  - 4 CONNECT ACTIVE SERVICE LATERAL. CITY OF MILWAUKIE DRAWING 304, SHEET C304.
  - 5 CONFIRM LATERAL IS INACTIVE
  - P CONTRACTOR SHALL POTHOLE TO VERIFY LOCATION, SIZE, AND DEPTH OF EXISTING UTILITIES.

- SANITARY SEWER NOTES:**
1. EVERY NEW OR EXISTING SEWER SERVICE LINE THAT HAS ANY WORK DONE TO IT OR THE ADJACENT MAIN IS REQUIRED TO BE PRE- AND POST-CONSTRUCTION VIDEO INSPECTION BY THE CONTRACTOR, FROM THE CENTER OF MAIN OR MANHOLE TO THE HOME, BUILDING, OR OTHER STRUCTURE PRIOR TO ACCEPTANCE. LINES WILL BE THOROUGHLY CLEANED PRIOR TO REQUEST FOR INSPECTION. DEBRIS FROM THE CLEANING WILL BE TRAPPED FOR DISPOSAL AND NOT FLUSHED INTO THE SYSTEM.
  2. ALL HIGH-DENSITY POLYETHYLENE (HDPE) AND PVC PIPE SHALL BE DEFLECTION TESTED NO LESS THAN 30-DAYS AFTER THE TRENCH BACKFILL AND COMPACTION HAS BEEN COMPLETED. THE TEST SHALL BE CONDUCTED BY PULLING AN APPROVED SOLID POINTED 95% OF AN INSIDE DIAMETER MANDREL THROUGH THE PIPELINE. LEAKAGE TESTS INCLUDE AN AIR TEST OF THE SEWER MAINS AND LATERALS AND A WATER INFILTRATION TEST OR VACUUM TEST OF THE MANHOLES. CITY OF MILWAUKIE INSPECTOR SHALL BE PRESENT DURING TESTING.
  3. MANHOLES SHALL BE PRECAST CONCRETE SECTIONS WITH MINIMUM INSIDE DIAMETER OF 48-INCHES, CONFORMING TO THE REQUIREMENTS OF ASTM C-478, EXCEPT AS NOTED ON THE PLANS.
  4. CONTRACTOR SHALL VERIFY LATERAL LOCATIONS PRIOR TO BURSTING EACH LINE.
  5. CONTRACTOR TO VERIFY SERVICE (ACTIVE OR INACTIVE) BEFORE CONNECTING LATERALS.

- UTILITY LEGEND**
- EXISTING SANITARY MANHOLE
  - SANITARY MANHOLE
  - EXISTING STORM MANHOLE
  - STORM MANHOLE
  - EXISTING SANITARY LINE
  - SANITARY LINE
  - EXISTING STORM LINE
  - STORM LINE
  - EXISTING WATER LINE
  - WATER LINE
  - CATCH BASIN
  - ⊗ WATER VALVE

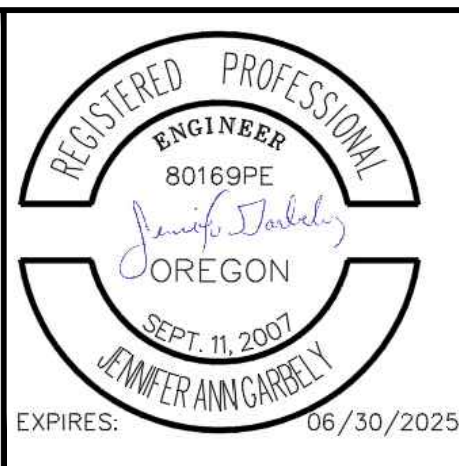


**29TH AVENUE**  
**STA 3+50 TO STA 7+71**  
**HOR: 1" = 20' ; VERT: 1" = 5'**



NO.	DATE	BY	REVISIONS

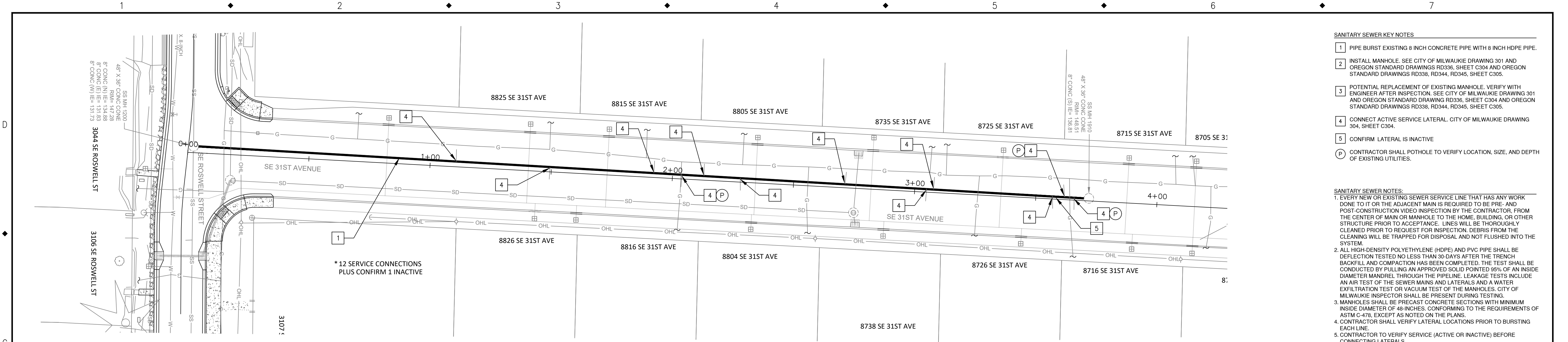
TAP DESIGNED	3/11/2022	DATE
JRN DRAFTED	9/13/2024	DATE
JAG CHECKED	9/16/2024	DATE
APPROVED		DATE




**CITY OF MILWAUKIE**  
 10501 SE MAIN STREET  
 MILWAUKIE, OR 97222  
 PHONE: 503-786-7600  
 FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**  
**SANITARY SEWER CONSTRUCTION**  
**29TH AVE**

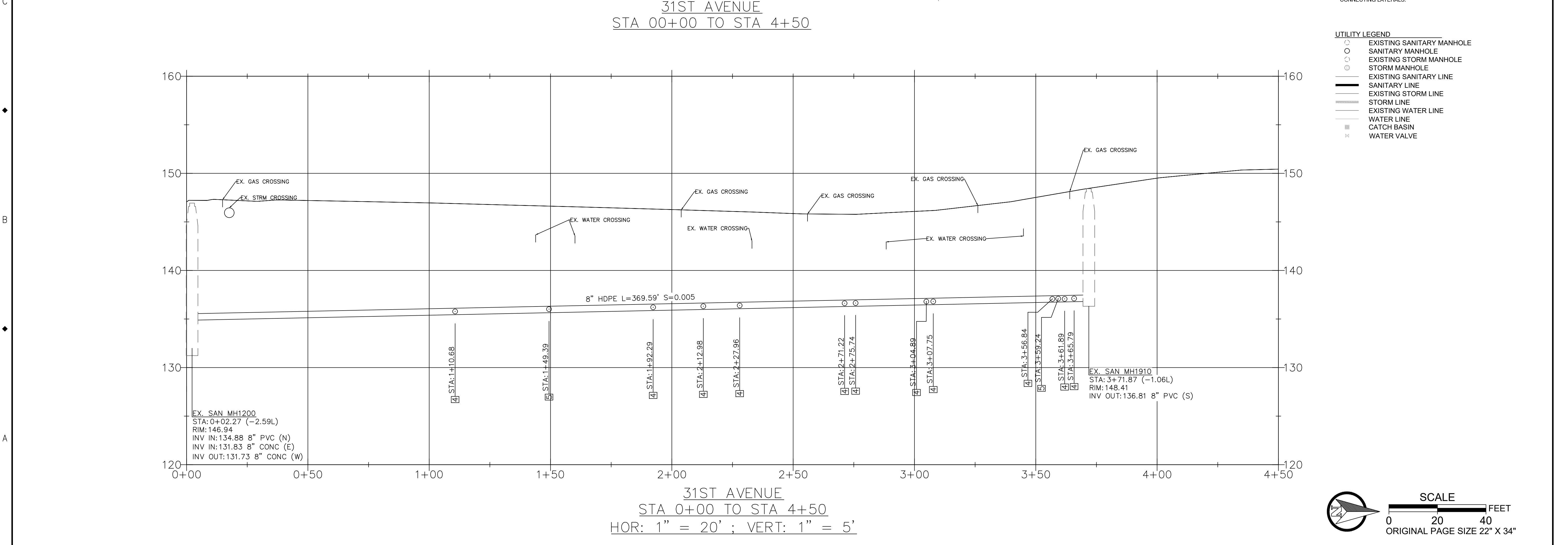
PROJECT NO.:	W61	SHEET NO.:	65 OF 93	DATE:	9/13/2024	SHEET:	C302
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- SANITARY SEWER KEY NOTES**
- 1 PIPE BURST EXISTING 8 INCH CONCRETE PIPE WITH 8 INCH HDPE PIPE.
  - 2 INSTALL MANHOLE. SEE CITY OF MILWAUKIE DRAWING 301 AND OREGON STANDARD DRAWINGS RD338, RD344, RD345, SHEET C305.
  - 3 POTENTIAL REPLACEMENT OF EXISTING MANHOLE. VERIFY WITH ENGINEER AFTER INSPECTION. SEE CITY OF MILWAUKIE DRAWING 301 AND OREGON STANDARD DRAWINGS RD338, RD344, RD345, SHEET C305.
  - 4 CONNECT ACTIVE SERVICE LATERAL. CITY OF MILWAUKIE DRAWING 304, SHEET C304.
  - 5 CONFIRM LATERAL IS INACTIVE
  - P CONTRACTOR SHALL POTHOLE TO VERIFY LOCATION, SIZE, AND DEPTH OF EXISTING UTILITIES.

- SANITARY SEWER NOTES:**
1. EVERY NEW OR EXISTING SEWER SERVICE LINE THAT HAS ANY WORK DONE TO IT OR THE ADJACENT MAIN IS REQUIRED TO BE PRE- AND POST-CONSTRUCTION VIDEO INSPECTION BY THE CONTRACTOR, FROM THE CENTER OF MAIN OR MANHOLE TO THE HOME, BUILDING, OR OTHER STRUCTURE PRIOR TO ACCEPTANCE. LINES WILL BE THOROUGHLY CLEANED PRIOR TO REQUEST FOR INSPECTION. DEBRIS FROM THE CLEANING WILL BE TRAPPED FOR DISPOSAL AND NOT FLUSHED INTO THE SYSTEM.
  2. ALL HIGH-DENSITY POLYETHYLENE (HDPE) AND PVC PIPE SHALL BE DEFLECTION TESTED NO LESS THAN 30-DAYS AFTER THE TRENCH BACKFILL AND COMPACTION HAS BEEN COMPLETED. THE TEST SHALL BE CONDUCTED BY PULLING AN APPROVED SOLID POINTED 35% OF AN INSIDE DIAMETER MANDREL THROUGH THE PIPELINE. LEAKAGE TESTS INCLUDE AN AIR TEST OF THE SEWER MAINS AND LATERALS AND A WATER FILTRATION TEST OR VACUUM TEST OF THE MANHOLES. CITY OF MILWAUKIE INSPECTOR SHALL BE PRESENT DURING TESTING.
  3. MANHOLES SHALL BE PRECAST CONCRETE SECTIONS WITH MINIMUM INSIDE DIAMETER OF 48-INCHES, CONFORMING TO THE REQUIREMENTS OF ASTM C-478, EXCEPT AS NOTED ON THE PLANS.
  4. CONTRACTOR SHALL VERIFY LATERAL LOCATIONS PRIOR TO BURSTING EACH LINE.
  5. CONTRACTOR TO VERIFY SERVICE (ACTIVE OR INACTIVE) BEFORE CONNECTING LATERALS.

- UTILITY LEGEND**
- EXISTING SANITARY MANHOLE
  - SANITARY MANHOLE
  - EXISTING STORM MANHOLE
  - STORM MANHOLE
  - EXISTING SANITARY LINE
  - SANITARY LINE
  - EXISTING STORM LINE
  - STORM LINE
  - EXISTING WATER LINE
  - WATER LINE
  - CATCH BASIN
  - WATER VALVE



NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
JRN DRAFTED	9/13/2024	DATE
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APPROVED		DATE

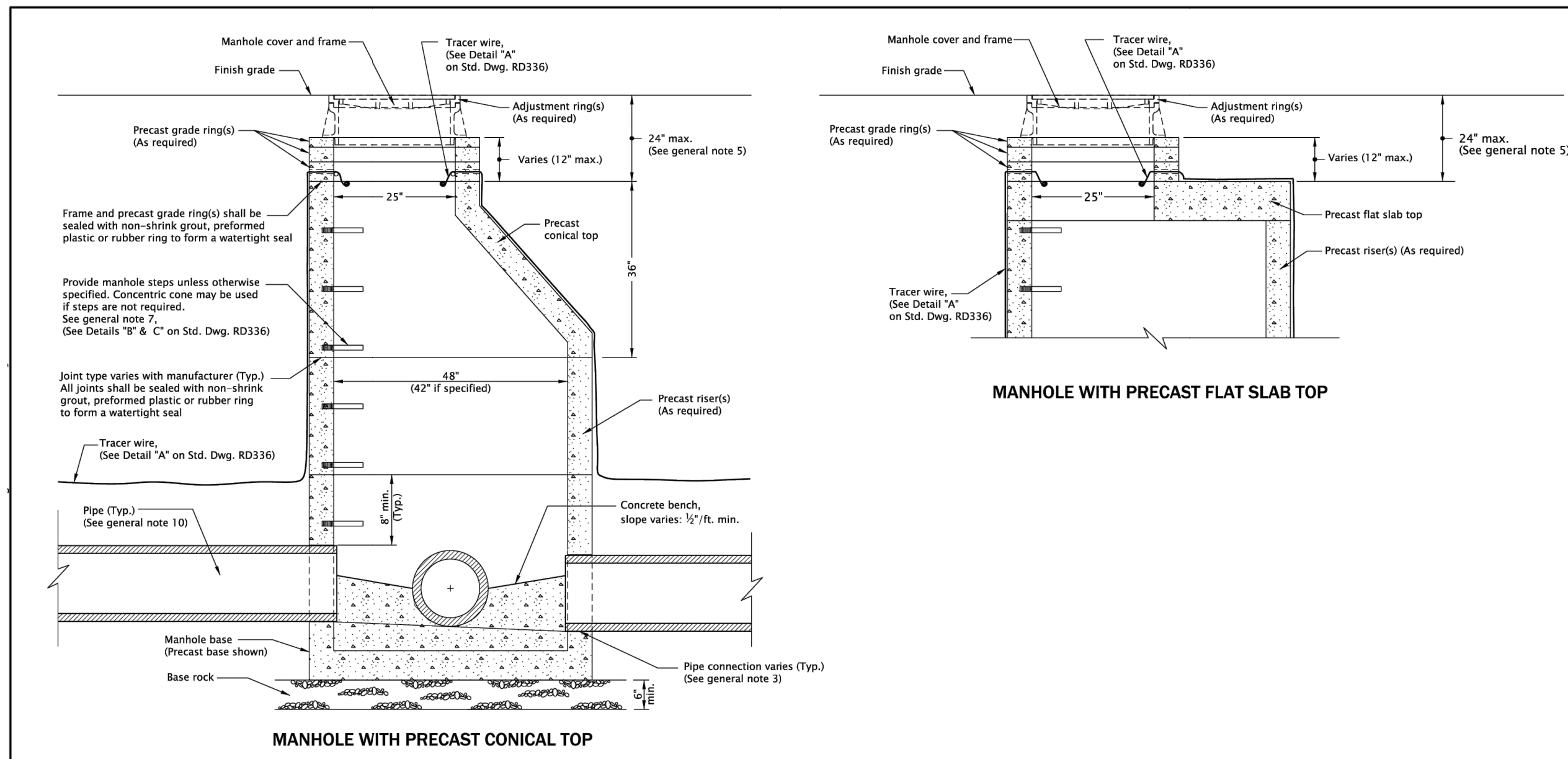



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 10501 SE MAIN STREET  
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**ARDENWALD NORTH IMPROVEMENTS**  
**SANITARY SEWER CONSTRUCTION**  
**31ST AVE**

PROJECT NO.:	W61	SHEET NO.:	66 OF 93	DATE:	9/13/2024	SHEET:	C303
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- GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:**
- All precast products shall conform to requirements of ASTM C478.
  - Standard precast manhole section diameter shall be 48". Use 42" if specified by the Engineer.
  - See Std. Dwg. RD345 for pipe to manhole connections.
  - See Std. Dwg. RD344 for manhole base section.
  - Adjust 24" maximum.
  - All connecting pipes shall have a tracer wire, or approved alternate. See Std. Dwg. RD336 for manhole steps. **NO STEPS**
  - See Std. Dwg. RD336 for details not shown.
  - See Std. Dwg. RD336 for manhole covers and frames, manhole adjustment rings, etc.
  - Max. pipe diameter varies with pipe material.
  - See Std. Dwg. RD342 for shallow manholes.
  - Location, elevation, diameter, slope, and number of pipe(s) varies, see project plans.
  - This detail limited to interior drops of 24". See Std. Dws. RD350 or RD352 for drop manhole details for drops in excess of 24".

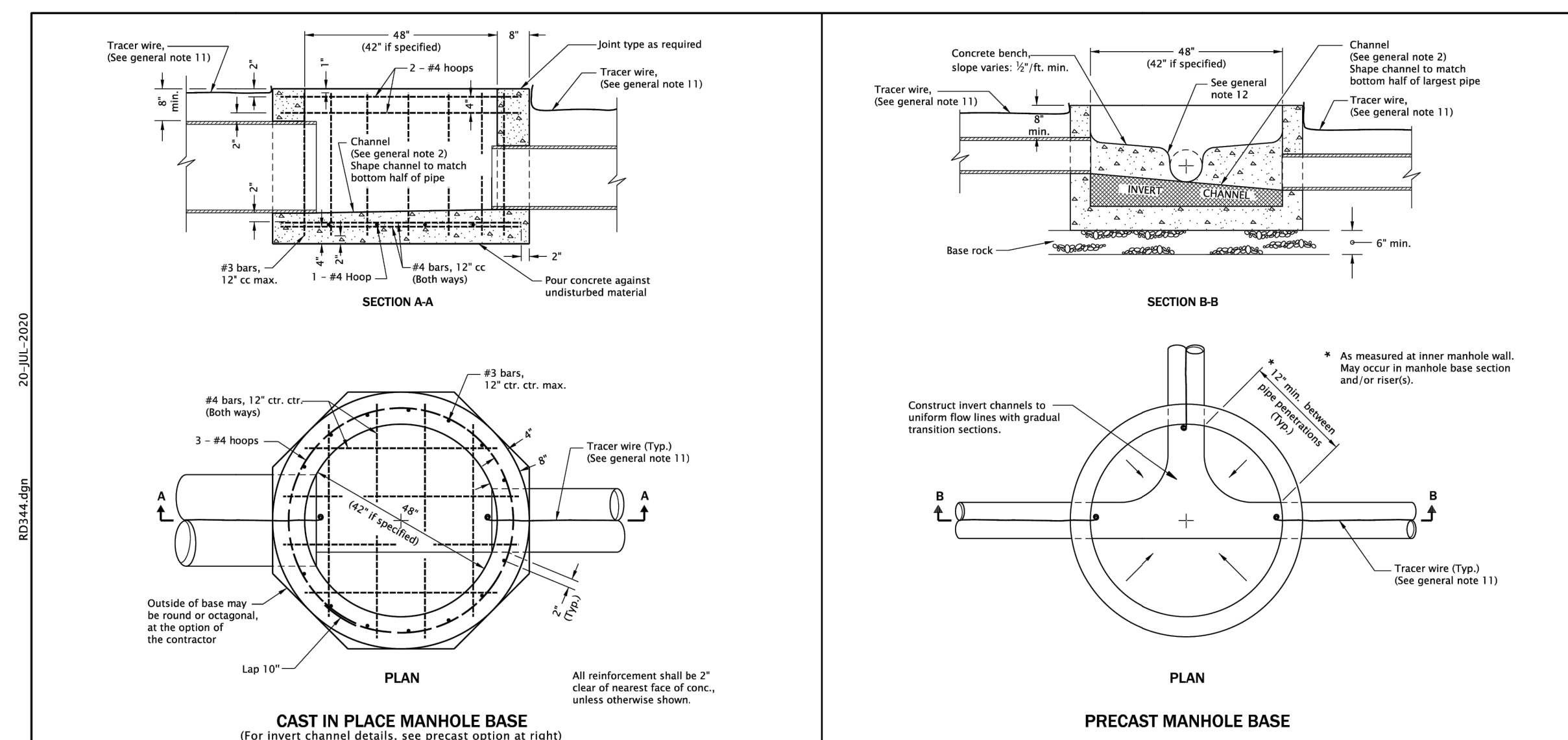
*The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.*

All materials shall be in accordance with the current Oregon Standard Specifications.

**OREGON STANDARD DRAWINGS**  
**STANDARD**  
**SANITARY SEWER MANHOLE**  
**AS MODIFIED BY CITY OF MILWAUKIE**  
 2024

DATE	REVISION DESCRIPTION

CALC. BOOK NO. N/A    DATE: 21-JAN-2024    **RD338**



- GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:**
- All concrete shall be commercial grade concrete.
  - Channels shall be constructed to provide smooth slopes and radii to outlet pipe.
  - Bases may be precast or cast in place.
  - Max. pipe diameter varies with pipe material.
  - Use on 42" and 48" diameter manhole.
  - Extend pipe into manhole and grout smooth. Pipe(s) may extend 2" max. beyond the interior manhole wall.
  - Location, elevation, diameter, slope, and number of pipe(s) varies, see project plans.
  - All precast products shall conform to the requirements of ASTM C478.
  - See Std. Dwg. RD345 for pipe to manhole connections.
  - See Std. Dwg. RD336 for manhole steps details.
  - See Std. Dwg. RD336 for tracer wire details.
  - At spring line of pipe, extend channel up to crown line on 12:1 batter.

*The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.*

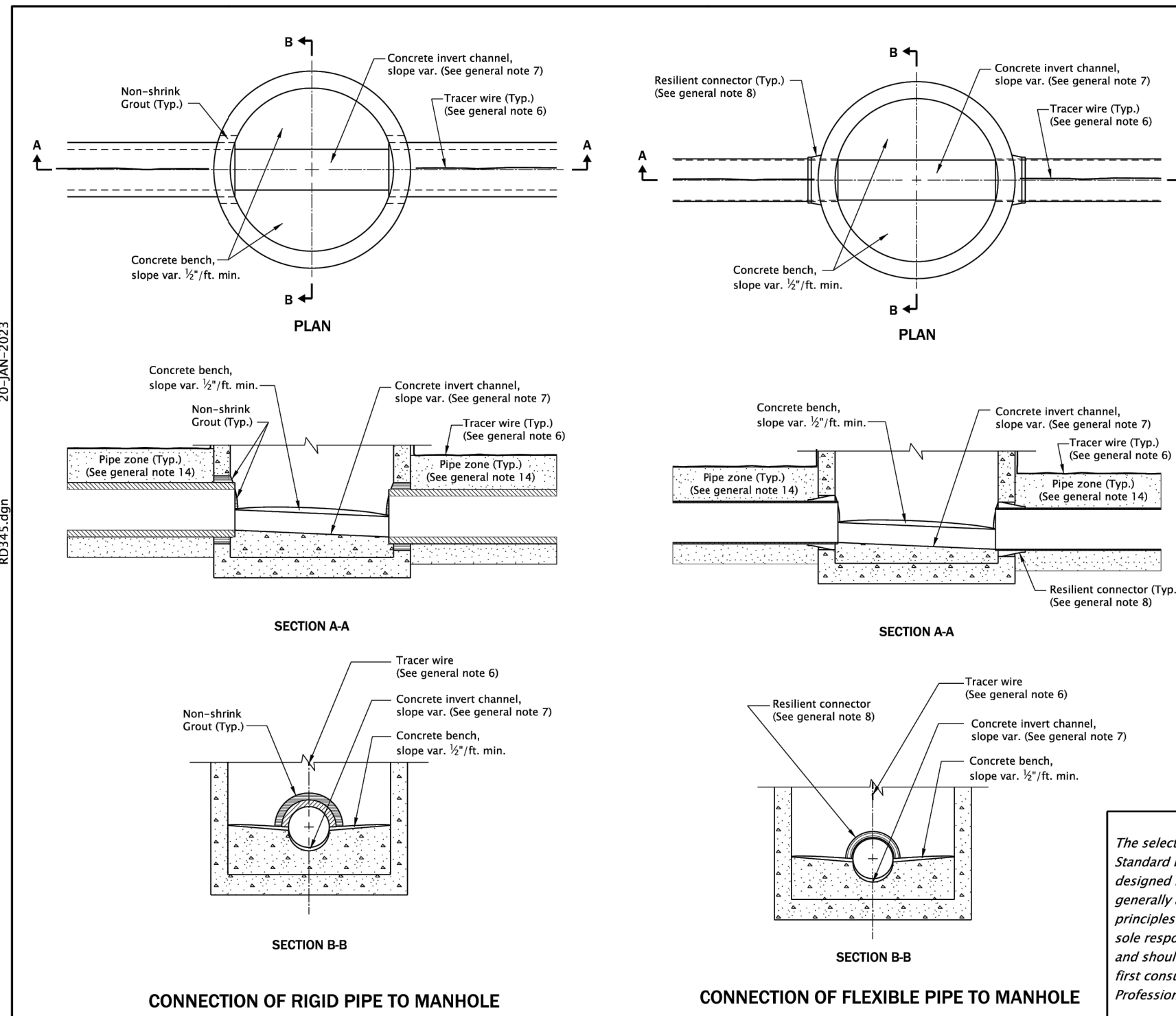
All materials shall be in accordance with the current Oregon Standard Specifications.

**OREGON STANDARD DRAWINGS**  
**STANDARD MANHOLE**  
**BASE SECTION**  
 2024

DATE	REVISION DESCRIPTION

CALC. BOOK NO. N/A    DATE: 14-JUN-2024    **RD344**

Effective Date: December 1, 2023 – May 31, 2024



- GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:**
- All precast sections shall conform to requirements of ASTM C478.
  - Manhole base sections may be precast or cast-in-place.
  - All concrete shall be commercial grade concrete.
  - Location, elevation, diameter, slope, and number of pipe(s) varies, see project plans.
  - Maximum pipe diameter varies with pipe material.
  - All connecting pipes shall have a tracer wire, or approved alternate. See Std. Dwg. RD336 for tracer wire details.
  - Invert channels shall be constructed to provide smooth slopes and radii to outlet pipe.
  - When flexible pipe is used, install resilient connectors conforming to requirements of ASTM C922.
  - See Std. Dws. RD335, RD336, and RD338 for details not shown.
  - See Std. Dwg. RD336 for manhole steps details.
  - See Std. Dwg. RD342 for shallow manholes.
  - See Std. Dwg. RD344 for manhole base section.
  - See Std. Dwg. RD356 for manhole covers and frames, manhole adjustment rings, etc.
  - Pipe zone varies, see Std. Dwg. RD300.

*The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.*

All materials shall be in accordance with the current Oregon Standard Specifications.

**OREGON STANDARD DRAWINGS**  
**PIPE TO MANHOLE**  
**CONNECTIONS**  
 2024

DATE	REVISION DESCRIPTION

CALC. BOOK NO. N/A    DATE: 20-JAN-2024    **RD345**

Effective Date: December 1, 2023 – May 31, 2024

NO.	DATE	BY	REVISIONS

TAP DESIGNED: 3/11/2022  
 DATE  
 JRN 9/13/2024  
 DATE  
 DRAFTED  
 JAG 9/16/2024  
 DATE  
 CHECKED  
 APPROVED  
 DATE

**REGISTERED PROFESSIONAL ENGINEER**  
 90169PE  
*Jennifer J. Jankley*  
 OREGON  
 SEPT. 11, 2007  
 JENNIFER ANN GAREELY  
 EXPIRES: 06/30/2025

**CITY OF MILWAUKIE**

10501 SE MAIN STREET  
 MILWAUKIE, OR 97222

PHONE: 503-786-7600  
 FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**

SANITARY STANDARD DRAWINGS

PROJECT NO.: W61    SHEET NO.: 68 OF 93    DATE: 9/13/2024    SHEET: C305

MATCHLINE SHEET C403

MATCHLINE SEE BELOW

MATCHLINE SEE ABOVE

29TH AVENUE  
STA 0+72 TO STA 4+71

29TH AVENUE  
STA 4+71 TO STA 7+71

WATER KEY NOTES

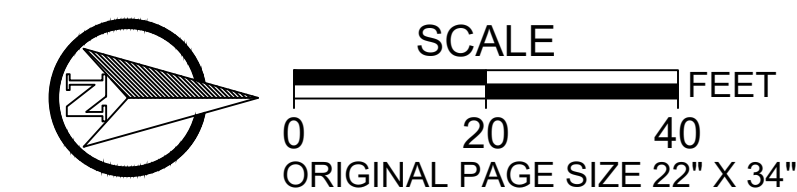
- 1 HOT TAP EXISTING 8" WATER MAIN PER CITY OF MILWAUKIE DRAWING 404, SHEET C404 AND INSTALL 8" FLG X MJ VALVE ASSEMBLY PER CITY OF MILWAUKIE DRAWING 405, SHEET C404.
- 2 CONNECT NEW MAIN TO EXISTING VALVE (SHUTDOWN TIE-IN) - SEE CONNECTION NOTE.
- 3 CONNECT NEW MAIN TO EXISTING 8"x4" REDUCER FITTING (SHUTDOWN TIE-IN) - SEE CONNECTION NOTE. INSTALL 8" MJ VALVE ASSEMBLY PER CITY OF MILWAUKIE DRAWING 405, SHEET C404.
- 4 INSTALL NEW 8-INCH DUCTILE IRON (DI) MAIN (FULLY RESTRAINED) WITH A MINIMUM OF 3 FEET OF COVER.
- 5 INSTALL 8" DI 22.5' MECHANICAL JOINT (MJ) BEND.
- 6 INSTALL NEW 1" WATER SERVICE. CONNECT FROM NEW 8" MAIN TO EXISTING METER. SEE CITY OF MILWAUKIE DRAWING 401, SHEET C404.
- 7 INSTALL NEW 1" WATER SERVICE. CONNECT FROM EXISTING 8" MAIN TO EXISTING METER. SEE CITY OF MILWAUKIE DRAWING 401, SHEET C404.
- 8 REPLACE HYDRANT ASSEMBLY PER CITY OF MILWAUKIE DRAWING 406, SHEET C404.
- P CONTRACTOR SHALL POTHOLE TO VERIFY LOCATION, SIZE, AND DEPTH OF EXISTING UTILITIES.

WATER NOTES:

- 1. OPERATION OF ALL EXISTING VALVES TO ISOLATE WATERLINES FOR THE REQUIRED WORK SHALL BE CONDUCTED BY CITY OF MILWAUKIE EMPLOYEES ONLY.
- 2. CONTRACTOR SHALL REQUEST WATER SYSTEM SHUT DOWNS AND PROVIDE NOTIFICATIONS PER OSSC 1140.47.
- 3. CONTRACTOR TO FURNISH AND INSTALL ALL FITTINGS, METER BOX, AND LID PER CITY OF MILWAUKIE STANDARDS. WATER METERS TO BE FURNISHED AND INSTALLED BY CITY, UNLESS OTHERWISE INDICATED ON PLANS.
- 4. RETAINER GLANDS ARE REQUIRED FOR ALL MECHANICAL JOINT CONNECTIONS. MEGALUG RETAINER GLANDS SHALL BE USED FOR DUCTILE IRON PIPE CONNECTIONS. GRIPPING RETAINER GLANDS SHALL BE USED FOR CAST IRON AND PVC PIPE CONNECTIONS.
- 5. THRUST BLOCKS SHALL NOT BE USED ON TEES, BENDS OR BLOW-OFFS, UNLESS OTHERWISE INDICATED ON PLANS.
- 6. ALL RESTRAINT FITTINGS SHALL BE INSTALLED WITH MANUFACTURER SPECIFIED TORQUE. CONTRACTOR IS RESPONSIBLE FOR HAVING A FUNCTIONAL TORQUE WRENCH ON-SITE.
- 7. CITY WATER CREWS HAVE THE RIGHT TO REMOVE OR KEEP ANY OR ALL OLD WATER INFRASTRUCTURE THAT IS EXPOSED BY CONTRACTOR.
- 8. WATER LINE FILLING AND FLUSHING SHALL BE PERFORMED IN ACCORDANCE WITH OSSC SECTION 01140.50. CONTRACTOR SHALL PROVIDE ALL HOOKUPS, PIPING, HOSES, AND ALL OTHER EQUIPMENT FOR FLUSHING. CONTRACTOR TO COORDINATE FLUSHING WITH CITY OF MILWAUKIE PROJECT MANAGER. CITY INSPECTOR TO BE ON SITE TO MEASURE VELOCITY PRODUCED.
- 9. PIPELINES SHALL BE FLUSHED AND DISINFECTED IN ACCORDANCE WITH OSSC SECTION 01140.52. OREGON STATE HEALTH DIVISION BACTERIOLOGICAL TESTS SHALL BE TAKEN BY THE CITY OF MILWAUKIE.
- 10. DUE TO THE AGE OF THE EXISTING WATERLINES AND VALVES, LEAKAGE OF EXISTING FACILITIES MAY OCCUR DURING CONSTRUCTION OF TIE-INS. CONTRACTOR SHALL HAVE ON-SITE PUMPS ADEQUATE TO KEEP TRENCHES DE-WATERED AND WILL FOLLOW ALL CITY STORMWATER REQUIREMENTS FOR DEWATERING.
- 11. "STICK BY STICK" CONSTRUCTION MAY BE REQUIRED IN AREAS WHERE PROPOSED WATERLINE IS CLOSE TO EXISTING WATER MAIN. IF TRENCH OF THE EXISTING WATERLINE IS FALLING INTO THE NEW CONSTRUCTION TRENCH, OR IF THE EXISTING WATERLINE IS EXPOSED, "STICK BY STICK" CONSTRUCTION WILL BE REQUIRED.
- 12. CITY SHALL PRE-APPROVE ANY SUB-CONTRACTOR DIRECT TAPPING LIVE CITY WATER MAINS.
- 13. IF CONNECTING TO CITY FIRE HYDRANT FOR TEMPORARY WATER, CONTRACTOR TO RENT HYDRANT METER THROUGH THE CITY. CITY PUBLIC WORKS WILL INSTRUCT CONTRACTOR ON USE. CONTRACTOR TO PROVIDE DEPOSIT AND COMPLETED HYDRANT METER APPLICATION TO CITY BUILDING DEPARTMENT AND PICK UP HYDRANT METER FROM THE JOHNSON CREEK BLVD. OFFICE BUILDING.
- 14. THE CONTRACTOR MUST MAINTAIN PIPE PLUGS IN NEW WATER MAIN DURING MAINLINE CONSTRUCTION.
- 15. ANY LEADED FITTINGS OR SERVICE LINES EXPOSED DURING WORK THAT WERE NOT PREVIOUSLY IDENTIFIED FOR REPLACEMENT NEED TO BE COMMUNICATED TO THE PROJECT MANAGER IMMEDIATELY.
- 16. WHEN A CORROSIVE POTENTIAL CONDITION IS ENCOUNTERED, ALL DUCTILE-IRON PIPE AND FITTINGS WILL BE POLYETHYLENE ENCASED WITH AN 8MIL TUBING MEETING MANUFACTURER AND AWWA STANDARDS. WHERE AN ACTIVE CATHODIC PROTECTION SYSTEM IS ENCOUNTERED AS A RESULT OF OTHER UTILITIES, A DEVIATION FROM NORMAL PIPE MATERIAL OR INSTALLATION MAY BE REQUIRED BY THE CITY ENGINEER.
- 17. FOR WATER SERVICE INSTALLATION, WHEN A CORROSIVE POTENTIAL CONDITION IS ENCOUNTERED AND THE COPPER SERVICE PASSES OVER OR UNDER AN ACTIVE CATHODIC PROTECTION SYSTEM, THE SERVICE SHALL BE INSTALLED IN A SCHEDULE 40 PVC CONDUIT FOR A DISTANCE OF TEN FEET ON EACH SIDE OF THE ACTIVE SYSTEM. ALL CONDUIT PLACEMENTS WILL BE AS-BUILT. PEX WATER SERVICE LINES ARE APPROVED TO BE USED IN AREAS WHERE COPPER SERVICE LINES FAIL PREMATURELY.
- 18. CONNECTION NOTE: CONTRACTOR SHALL VERIFY DEPTH OF EXISTING LINE PRIOR TO CONNECTION (POTHOLE AS NECESSARY). REPORT RESULTS TO CITY OF MILWAUKIE PM FOR REVIEW BEFORE PROCEEDING WITH CONSTRUCTION.

UTILITY LEGEND

- EXISTING SANITARY MANHOLE
- SANITARY MANHOLE
- EXISTING STORM MANHOLE
- STORM MANHOLE
- EXISTING SANITARY LINE
- SANITARY LINE
- EXISTING STORM LINE
- STORM LINE
- EXISTING WATER LINE
- WATER LINE
- CATCH BASIN
- x WATER VALVE



NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
JRN DRAFTED	9/13/2024	DATE
JAG CHECKED	9/16/2024	DATE
APPROVED		DATE



**CITY OF MILWAUKIE**

10501 SE MAIN STREET  
MILWAUKIE, OR 97222

PHONE: 503-786-7600  
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**ARDENWALD NORTH IMPROVEMENTS**

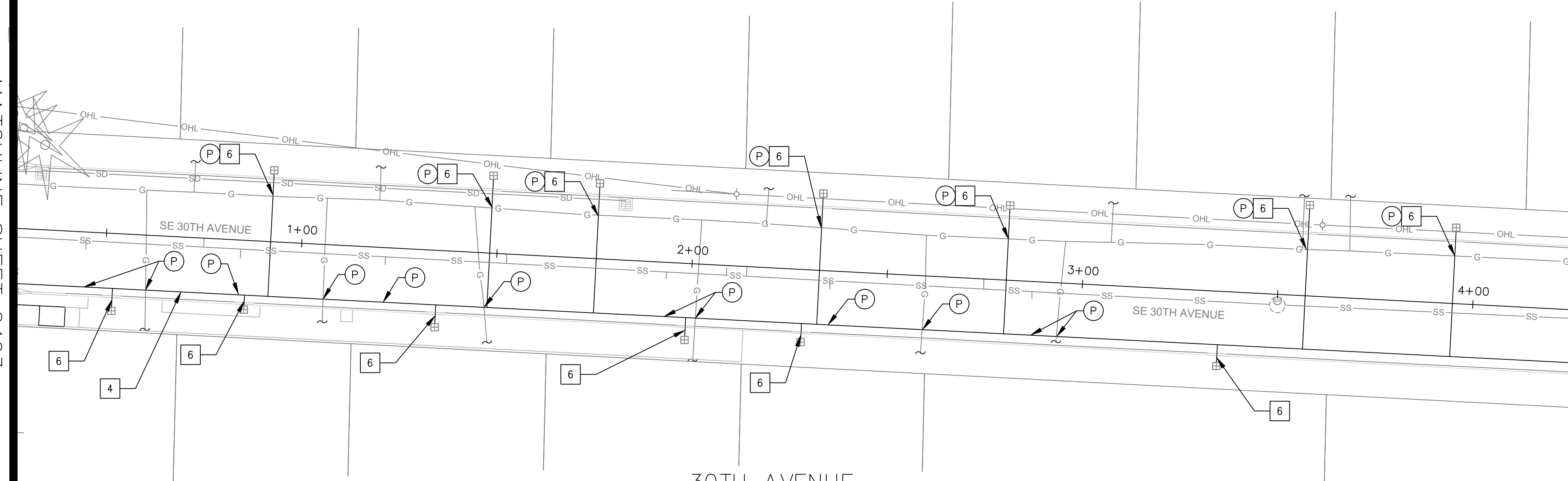
WATER CONSTRUCTION

29TH AVE

PROJECT NO.: W61    SHEET NO.: 69 OF 93    DATE: 9/13/2024    SHEET: C400

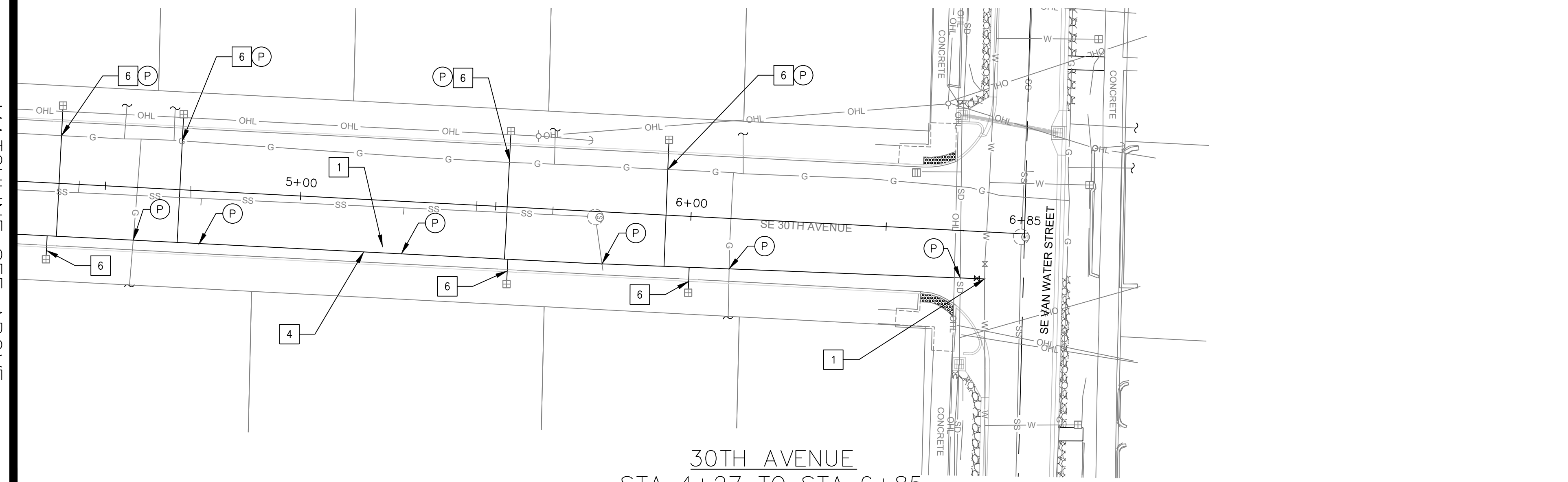
MATCHLINE SHEET C403

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30TH AVENUE  
STA 0+25 TO STA 4+27

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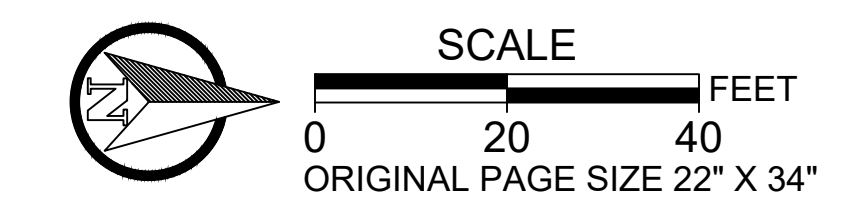


30TH AVENUE  
STA 4+27 TO STA 6+85

- WATER KEY NOTES**
- 1 HOT TAP EXISTING 8" WATER MAIN PER CITY OF MILWAUKIE DRAWING 404, SHEET C404 AND INSTALL 8" FLG X MJ VALVE ASSEMBLY PER CITY OF MILWAUKIE DRAWING 405, SHEET C404.
  - 2 CONNECT NEW MAIN TO EXISTING VALVE (SHUTDOWN TIE-IN) - SEE CONNECTION NOTE.
  - 3 CONNECT NEW MAIN TO EXISTING 8"x4" REDUCER FITTING (SHUTDOWN TIE-IN) - SEE CONNECTION NOTE. INSTALL 8" MJ VALVE ASSEMBLY PER CITY OF MILWAUKIE DRAWING 405, SHEET C404.
  - 4 INSTALL NEW 8-INCH DUCTILE IRON (DI) MAIN (FULLY RESTRAINED) WITH A MINIMUM OF 3 FOOT OF COVER.
  - 5 INSTALL 8" DI 22.5" MECHANICAL JOINT (MJ) BEND.
  - 6 INSTALL NEW 1" WATER SERVICE. CONNECT FROM NEW 8" MAIN TO EXISTING METER. SEE CITY OF MILWAUKIE DRAWING 401, SHEET C404.
  - 7 INSTALL NEW 1" WATER SERVICE. CONNECT FROM EXISTING 8" MAIN TO EXISTING METER. SEE CITY OF MILWAUKIE DRAWING 401, SHEET C404.
  - 8 REPLACE HYDRANT ASSEMBLY PER CITY OF MILWAUKIE DRAWING 406, SHEET C404.
  - P CONTRACTOR SHALL POTHOLE TO VERIFY LOCATION, SIZE, AND DEPTH OF EXISTING UTILITIES.

- WATER NOTES:**
1. OPERATION OF ALL EXISTING VALVES TO ISOLATE WATERLINES FOR THE REQUIRED WORK SHALL BE CONDUCTED BY CITY OF MILWAUKIE EMPLOYEES ONLY.
  2. CONTRACTOR SHALL REQUEST WATER SYSTEM SHUT DOWNS AND PROVIDE NOTIFICATIONS PER OSSC 01140.47.
  3. CONTRACTOR TO FURNISH AND INSTALL ALL FITTINGS, METER BOX, AND LID PER CITY OF MILWAUKIE STANDARDS. WATER METERS TO BE FURNISHED AND INSTALLED BY CITY, UNLESS OTHERWISE INDICATED ON PLANS.
  4. RETAINER GLANDS ARE REQUIRED FOR ALL MECHANICAL JOINT CONNECTIONS. MEGALUG RETAINER GLANDS SHALL BE USED FOR DUCTILE IRON PIPE CONNECTIONS. GRIPPING RETAINER GLANDS SHALL BE USED FOR CAST IRON AND PVC PIPE CONNECTIONS.
  5. THRUST BLOCKS SHALL NOT BE USED ON TEES, BENDS OR BLOW-OFFS, UNLESS OTHERWISE INDICATED ON PLANS.
  6. ALL RESTRAINT FITTINGS SHALL BE INSTALLED WITH MANUFACTURER SPECIFIED TORQUE. CONTRACTOR IS RESPONSIBLE FOR HAVING A FUNCTIONAL TORQUE WRENCH ON-SITE.
  7. CITY WATER CREWS HAVE THE RIGHT TO REMOVE OR KEEP ANY OR ALL OLD WATER INFRASTRUCTURE THAT IS EXPOSED BY CONTRACTOR.
  8. WATER LINE FILLING AND FLUSHING SHALL BE PERFORMED IN ACCORDANCE WITH OSSC SECTION 01140.50. CONTRACTOR SHALL PROVIDE ALL HOSE, PIPING, HOSES, AND ALL OTHER EQUIPMENT FOR FLUSHING. CONTRACTOR TO COORDINATE FLUSHING WITH CITY OF MILWAUKIE PROJECT MANAGER. CITY INSPECTOR TO BE ON SITE TO MEASURE VELOCITY PRODUCED.
  9. PIPELINES SHALL BE FLUSHED AND DISINFECTED IN ACCORDANCE WITH OSSC SECTION 01140.52. OREGON STATE HEALTH DIVISION BACTERIOLOGICAL TESTS SHALL BE TAKEN BY THE CITY OF MILWAUKIE.
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  16. WHEN A CORROSIVE POTENTIAL CONDITION IS ENCOUNTERED, ALL DUCTILE IRON PIPE AND FITTINGS WILL BE POLYETHYLENE ENCASED WITH AN 8MIL TUBING MEETING MANUFACTURER AND AWWA STANDARDS. WHERE AN ACTIVE CATHODIC PROTECTION SYSTEM IS ENCOUNTERED AS A RESULT OF OTHER UTILITIES, A DEVIATION FROM NORMAL PIPE MATERIAL OR INSTALLATION MAY BE REQUIRED BY THE CITY ENGINEER.
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- UTILITY LEGEND**
- EXISTING SANITARY MANHOLE
  - SANITARY MANHOLE
  - EXISTING STORM MANHOLE
  - STORM MANHOLE
  - EXISTING SANITARY LINE
  - SANITARY LINE
  - EXISTING STORM LINE
  - STORM LINE
  - EXISTING WATER LINE
  - WATER LINE
  - CATCH BASIN
  - x WATER VALVE



NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
JRN DRAFTED	9/13/2024	DATE
JAG CHECKED	9/16/2024	DATE
APPROVED		DATE



**CITY OF MILWAUKIE**

10501 SE MAIN STREET  
MILWAUKIE, OR 97222

PHONE: 503-786-7600  
FAX: 503-774-8236

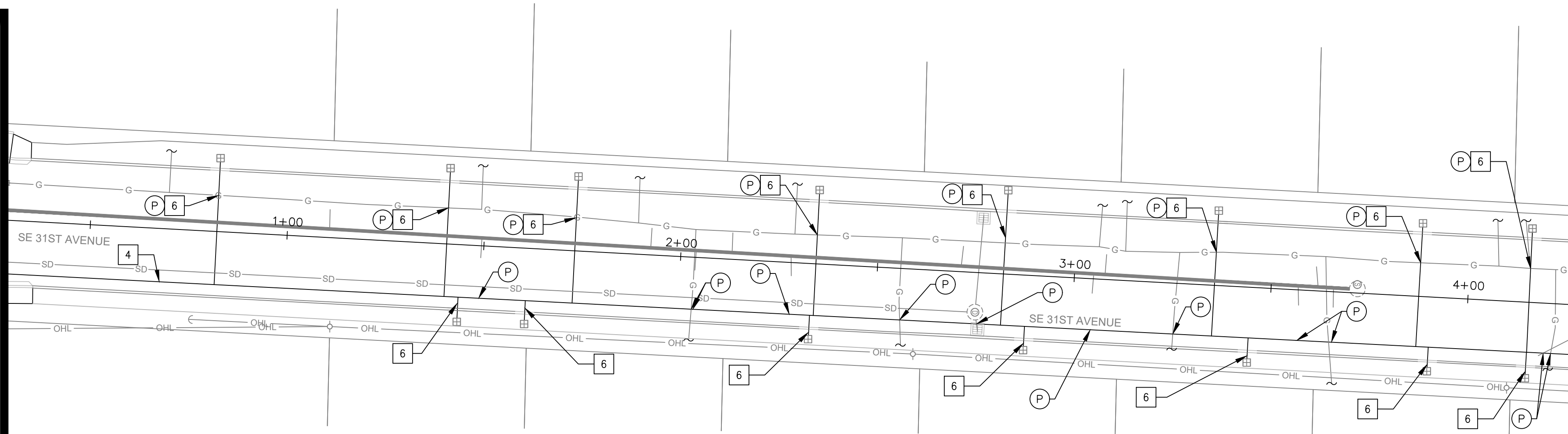
**ARDENWALD NORTH IMPROVEMENTS**

WATER CONSTRUCTION  
30TH AVE

PROJECT NO.: W61	SHEET NO.: 70 OF 93	DATE: 9/13/2024	SHEET: C401
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MATCHLINE SHEET C403

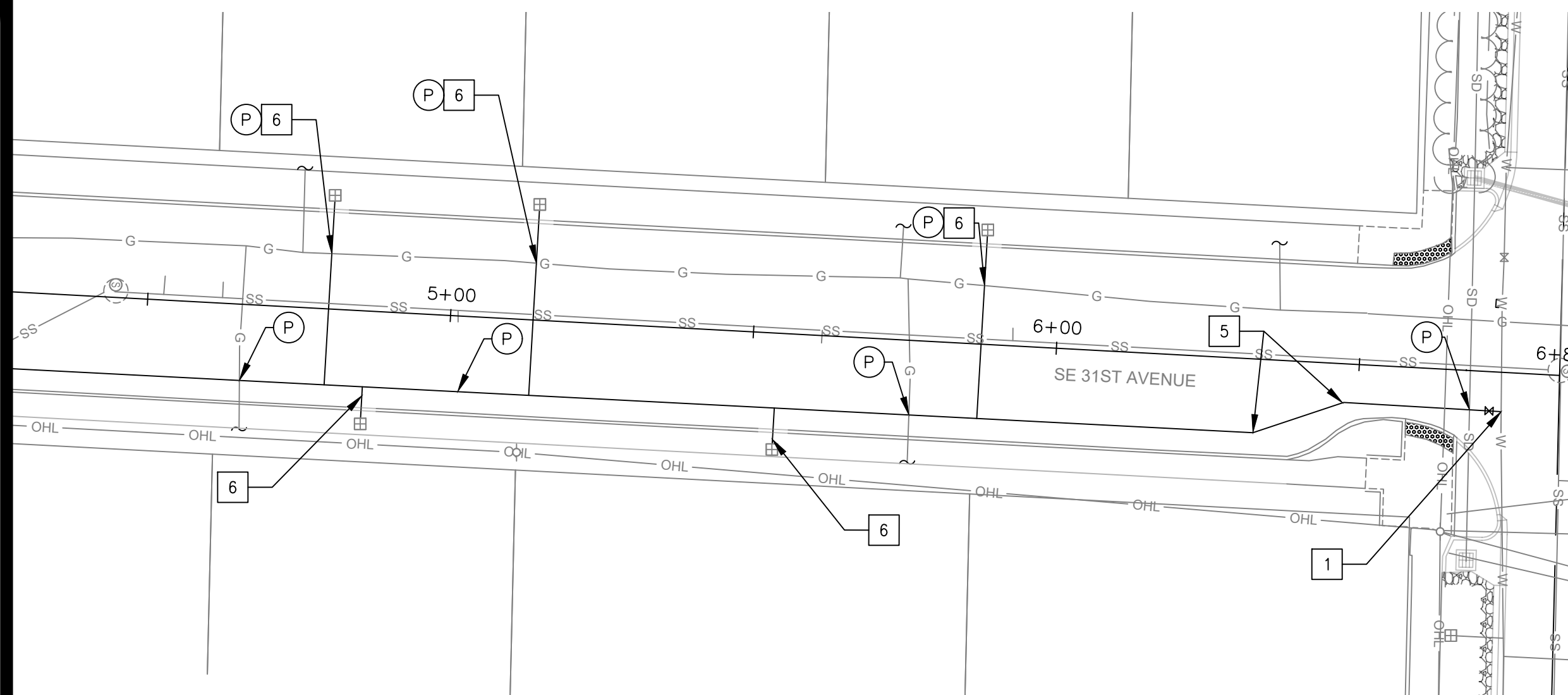
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31TH AVENUE  
STA 0+29 TO STA 4+27

MATCHLINE SEE ABOVE

MATCHLINE SEE BELOW

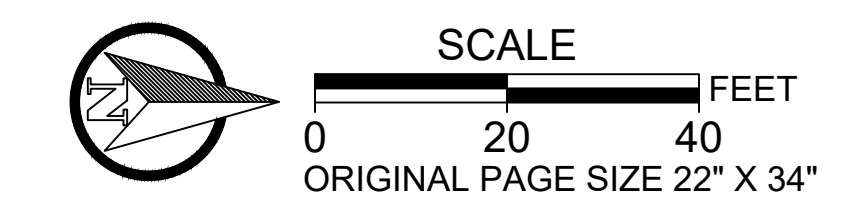


31TH AVENUE  
STA 4+27 TO STA 6+83

- WATER KEY NOTES**
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  - SANITARY LINE
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  - STORM LINE
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  - WATER LINE
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  - x WATER VALVE



NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
JRN DRAFTED	9/13/2024	DATE
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APPROVED		DATE



**CITY OF MILWAUKIE**

10501 SE MAIN STREET  
MILWAUKIE, OR 97222

PHONE: 503-786-7600  
FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**

WATER CONSTRUCTION  
31ST AVE

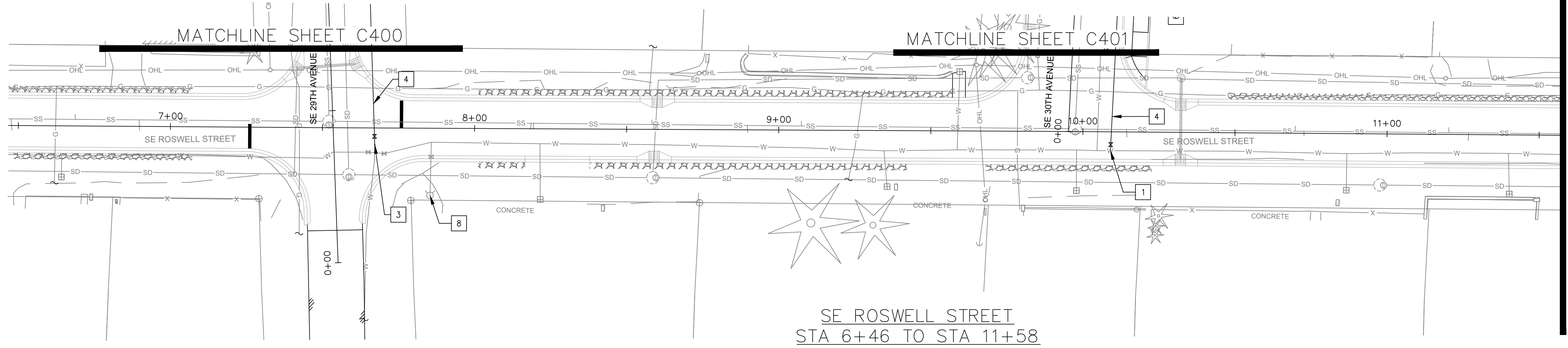
PROJECT NO.:	W61	SHEET NO.:	71 OF 93	DATE:	9/13/2024	SHEET:	C402
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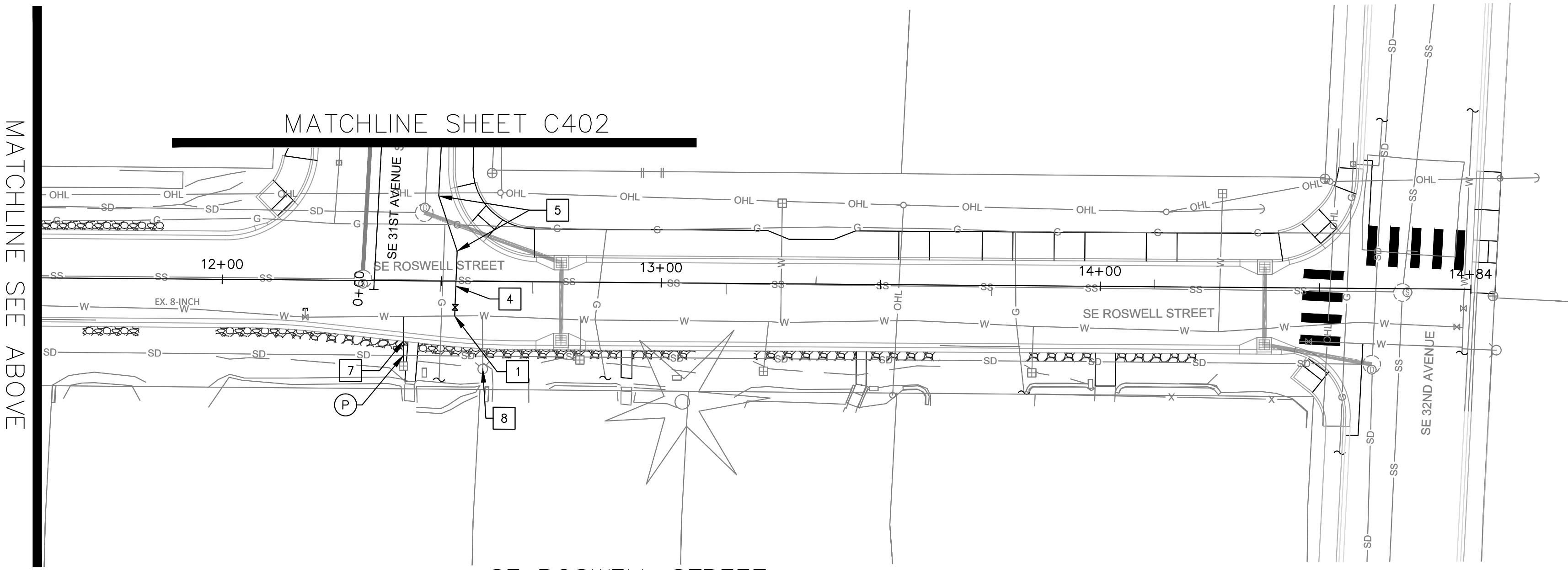
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SE ROSWELL STREET  
STA 6+46 TO STA 11+58

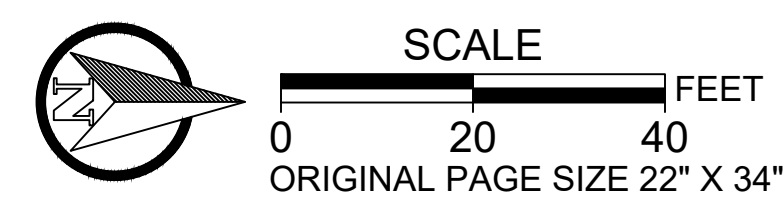


SE ROSWELL STREET  
STA 11+58 TO STA 14+84

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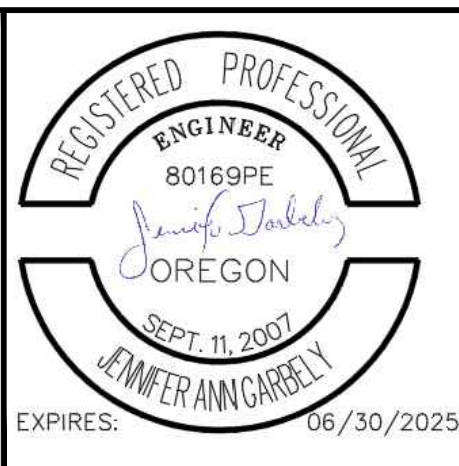
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  - SANITARY MANHOLE
  - EXISTING STORM MANHOLE
  - STORM MANHOLE
  - EXISTING SANITARY LINE
  - SANITARY LINE
  - EXISTING STORM LINE
  - STORM LINE
  - EXISTING WATER LINE
  - WATER LINE
  - CATCH BASIN
  - x WATER VALVE



NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
JRN DRAFTED	9/13/2024	DATE
JAG CHECKED	9/16/2024	DATE
APPROVED		DATE



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PHONE: 503-786-7600  
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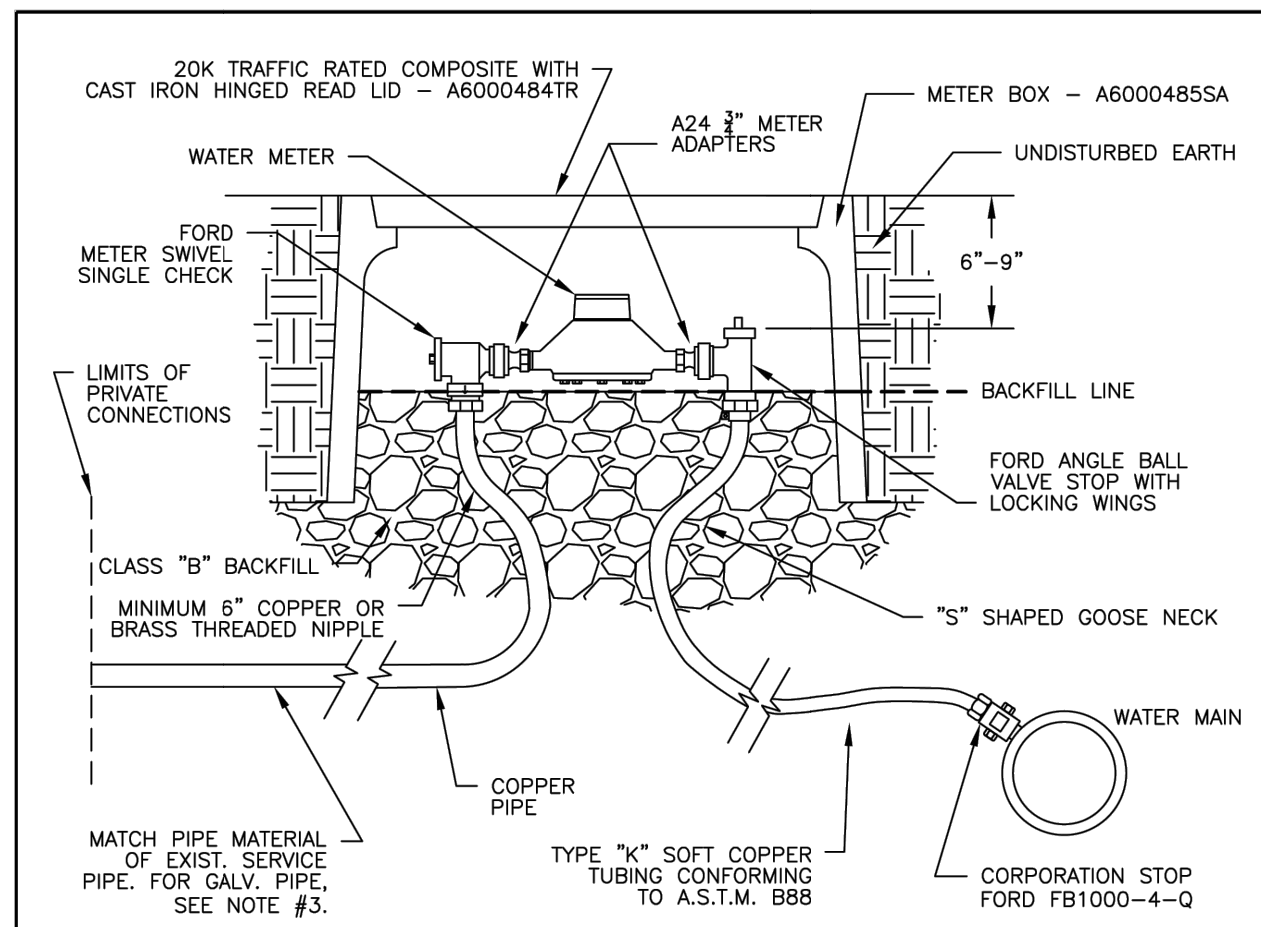
**ARDENWALD NORTH IMPROVEMENTS**

**WATER CONSTRUCTION**

**ROSWELL ST**

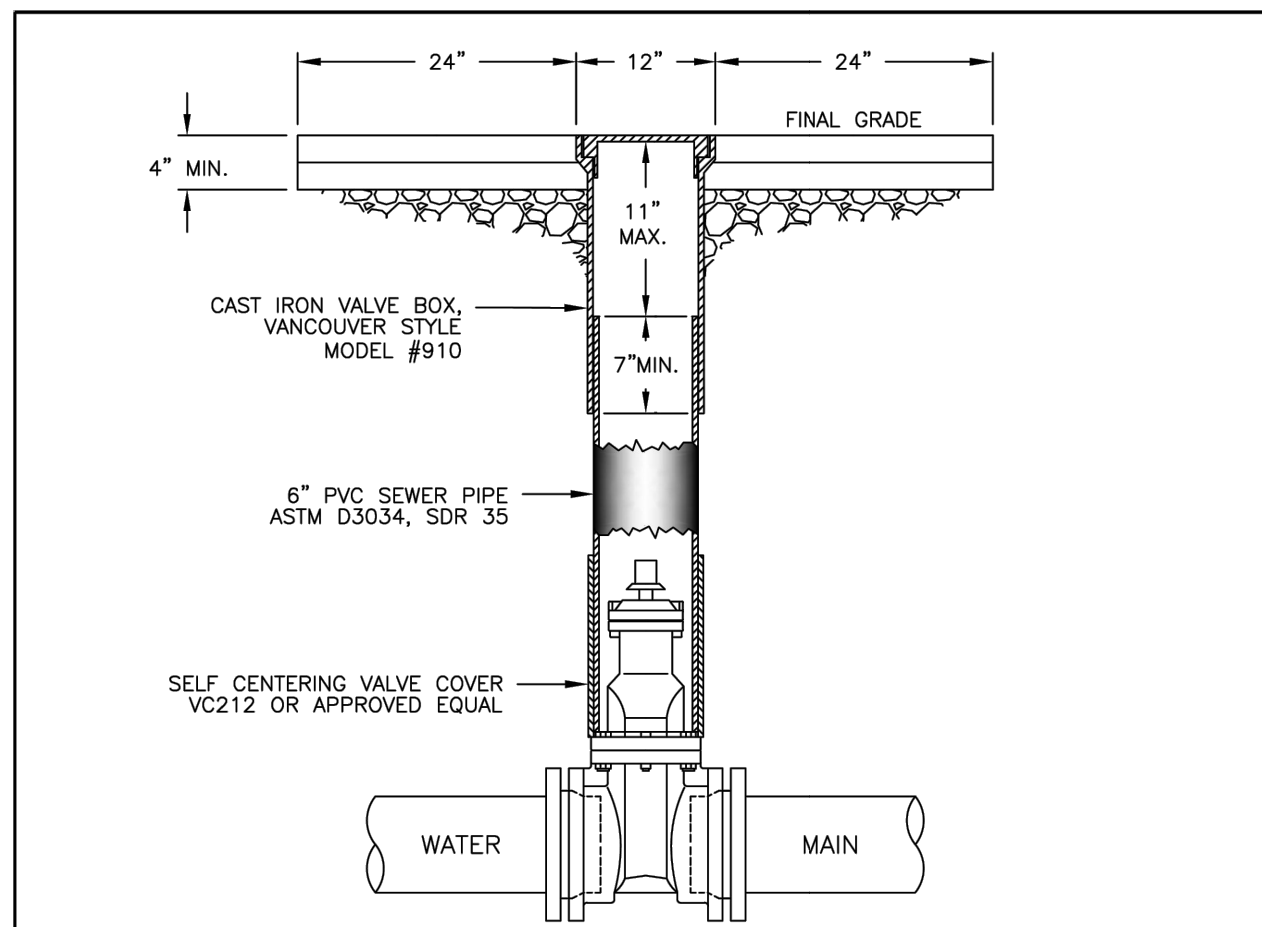
PROJECT NO.:	W61	SHEET NO.:	72 OF 93	DATE:	9/13/2024	SHEET:	C403
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- UNTHREADED GALVANIZED PIPE CONNECTION:**
- NOTES:**
- IF COPPER TUBING CROSSES CATHODICALLY PROTECTED LINE, ENCASE COPPER IN POLYETHYLENE TUBING FOR 24" (CENTERED AT THE CROSSING LINE) AND FASTEN WITH 2" WIDE ADHESIVE TAPE THAT IS COMPATIBLE WITH POLYETHYLENE.
  - PLACE METER BOXES (1) LOCATED BEHIND THE SIDEWALK WHERE THERE IS SUFFICIENT RIGHT-OF-WAY, (2) WITHIN THE PLANTER STRIP, EXCLUDING WATER QUALITY FACILITIES, (3) WITHIN THE SIDEWALK WITH THE BACK OF THE METER BOX AT THE BACK EDGE OF THE SIDEWALK.
  - CONNECT GALVANIZED SERVICE PIPE: (1) AT EXISTING THREADED FITTING WITHIN 5 FEET OF WATER METER; (2) RETREAD EXISTING GALVANIZED SERVICE PIPE; (3) IF EXISTING PIPE IS IN POOR CONDITION AND CANNOT BE RETHREADED, USE UNTHREADED GALVANIZED PIPE CONNECTION DETAIL.
  - IF METER BOX IS LOCATED IN THE SIDEWALK, DIELECTRIC UNION WILL BE INSTALLED (1) 6" FROM BACK OF METER INSIDE OF METER BOX, (2) BEHIND BACK OF SIDEWALK.

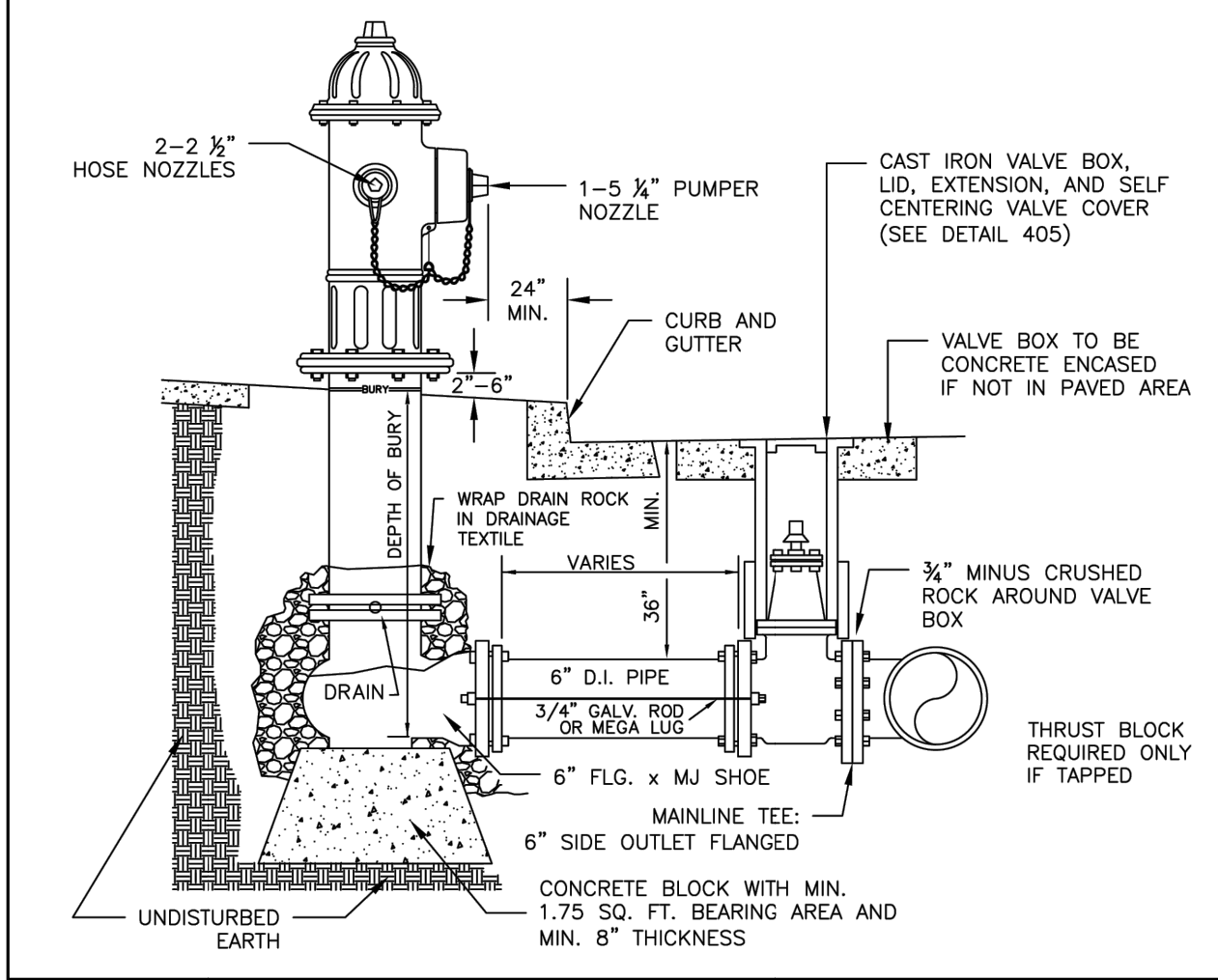
CITY OF MILWAUKIE, OREGON - PUBLIC WORKS DEPT.		DRAWING NO.
3/4 to 1 Inch Water Service		401
APPROVED	NO. REVISIONS	DATE BY
CITY ENGINEER	5	12/14 AJR
	6	11/18 TAP
	7	08/19 TAP



- NOTES:**
- VALVE BOXES MUST BE CENTERED DIRECTLY OVER THE VALVE NUT IN A VERTICAL POSITION.
  - VALVE BOX TOP TO BE ADJUSTED TO MEET FINISHED GRADE.
  - PVC MUST BE ONE CONTINUOUS PIECE - NO BELLS OR COUPLERS.
  - VALVE NUT EXTENSIONS TO BE USED TO BRING VALVE NUT WITHIN 4 FEET OF FINAL GRADE.
  - VALVE CAN MUST BE ENCASED IN 2'x2' PAD IN UNIMPROVED AREAS. REPAIRS WITHIN PAVED STREET REQUIRE A MINIMUM 5'x5' ASPHALT PATCH.

CITY OF MILWAUKIE, OREGON - PUBLIC WORKS DEPT.		DRAWING NO.
Valve Box		405
APPROVED	NO. REVISIONS	DATE BY
CITY ENGINEER	2	12/13 AJR
	1	11/18 TAP
	3	08/19 TAP

- NOTES:**
- HYDRANTS TO BE WATEROUS W867, MUELLER CENTURION A423, M&H 929 RELIANT, OR CLOW MEDALLION F2545 WITH 1 1/2" OPERATING NUTS.
  - HYDRANT COLOR TO BE MILLER EQUIP. ENAMEL OE 40 (SAFETY YELLOW).
  - JOINTS TO BE RESTRAINED BY 3/4" DIA. GALVANIZED STEEL RODS OR MEGA LUGS.
  - ALL FITTINGS IN CONTACT W/ CONCRETE TO BE WRAPPED IN PLASTIC. HYDRANT DRAIN HOLES TO REMAIN OPEN TO DRAIN ROCK AND OPERATIONAL.
  - MIN. 4 CU. FT. OF 2"-1" CLEAN DRAIN ROCK MUST BE PLACED AROUND SHOE UP TO A MIN. OF 6" ABOVE DRAIN OUTLETS.
  - WHERE PLASTIC STRIP EXISTS, HYDRANT TO BE PLACED SO FRONT PORT IS A MINIMUM OF 24" BEHIND FACE OF CURB.
  - WHERE INTEGRAL SIDEWALK AND CURB EXISTS, HYDRANT TO BE PLACED AT BACK OF SIDEWALK, OR AS DIRECTED BY ENGINEER.
  - BURY OF HYDRANT TO BE MEASURED FROM FINISHED GRADE TO BOTTOM OF CONNECTING PIPE.
  - HYDRANT VALVE TO BE AMERICAN FLOW CONTROL SERIES 2500 OR APPROVED EQUAL.
  - WHERE NO SIDEWALK EXISTS, PLACE A 5'x5'x4" THICK CONCRETE APRON AROUND HYDRANT.
  - NO VERTICAL EXTENSIONS ALLOWED WITHOUT APPROVAL.



CITY OF MILWAUKIE, OREGON - PUBLIC WORKS DEPT.		DRAWING NO.
Fire Hydrant Installation		406
APPROVED	NO. REVISIONS	DATE BY
CITY ENGINEER	2	12/12 MFC
	3	12/14 AJR
	4	08/19 TAP
	1	11/18 TAP

NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
JRN DRAFTED	9/13/2024	DATE
JAG CHECKED	9/16/2024	DATE
APPROVED		DATE



**CITY OF MILWAUKIE**

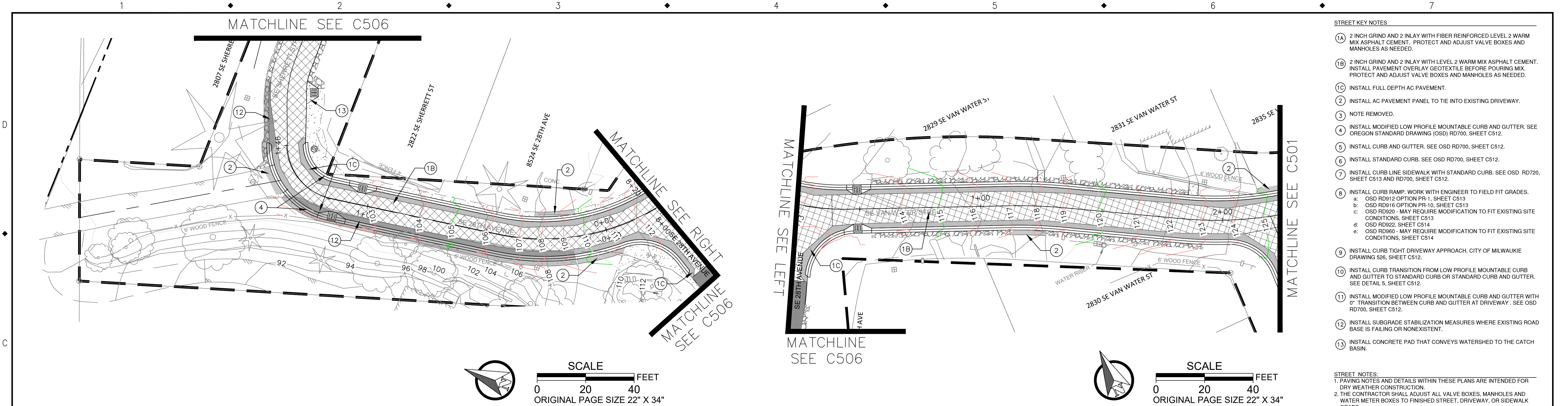
10501 SE MAIN STREET  
MILWAUKIE, OR 97222

PHONE: 503-786-7600  
FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**

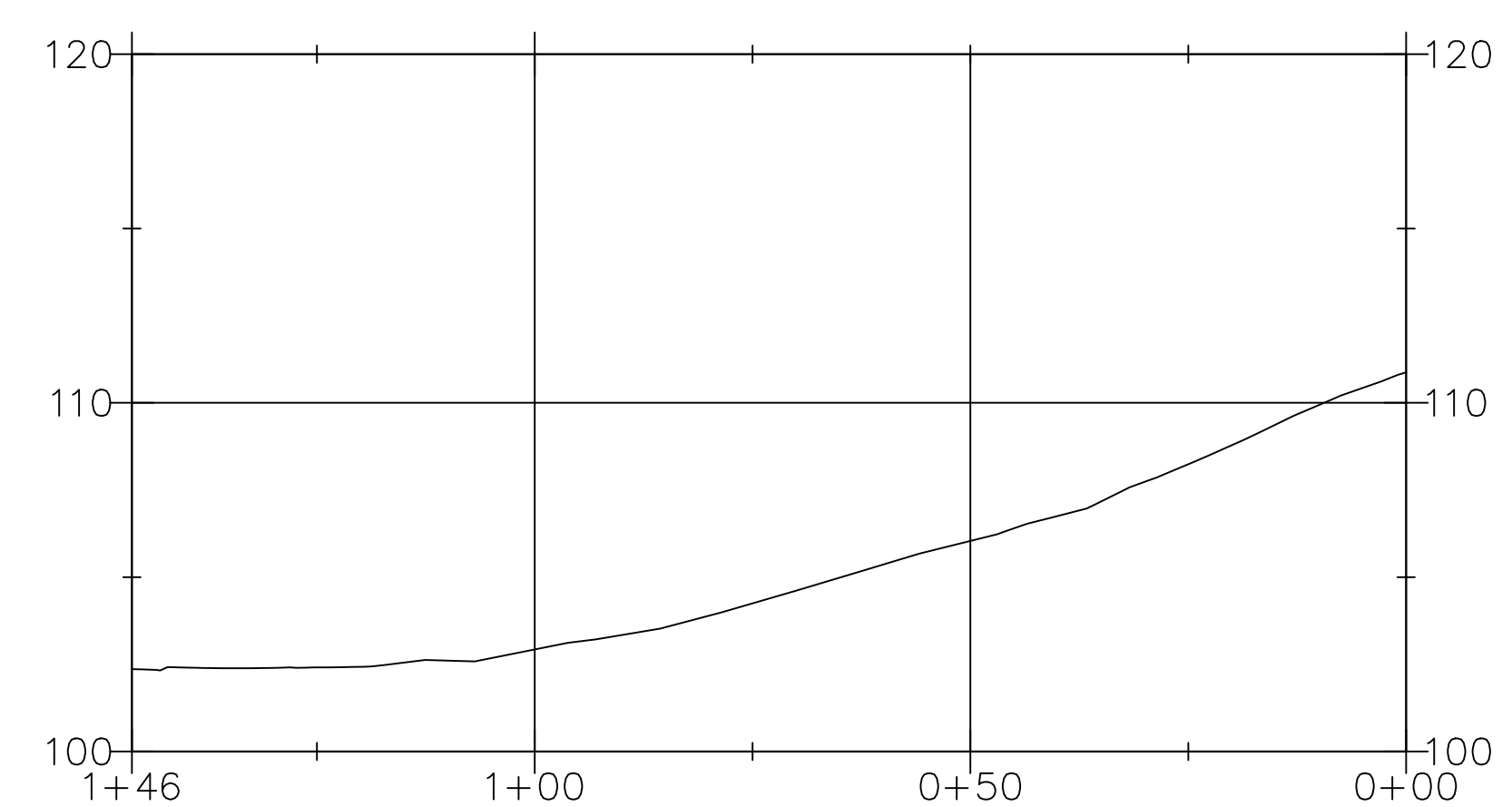
WATER STANDARD DRAWINGS

PROJECT NO.:	W61	SHEET NO.:	73 OF 93	DATE:	9/13/2024	SHEET:	C404
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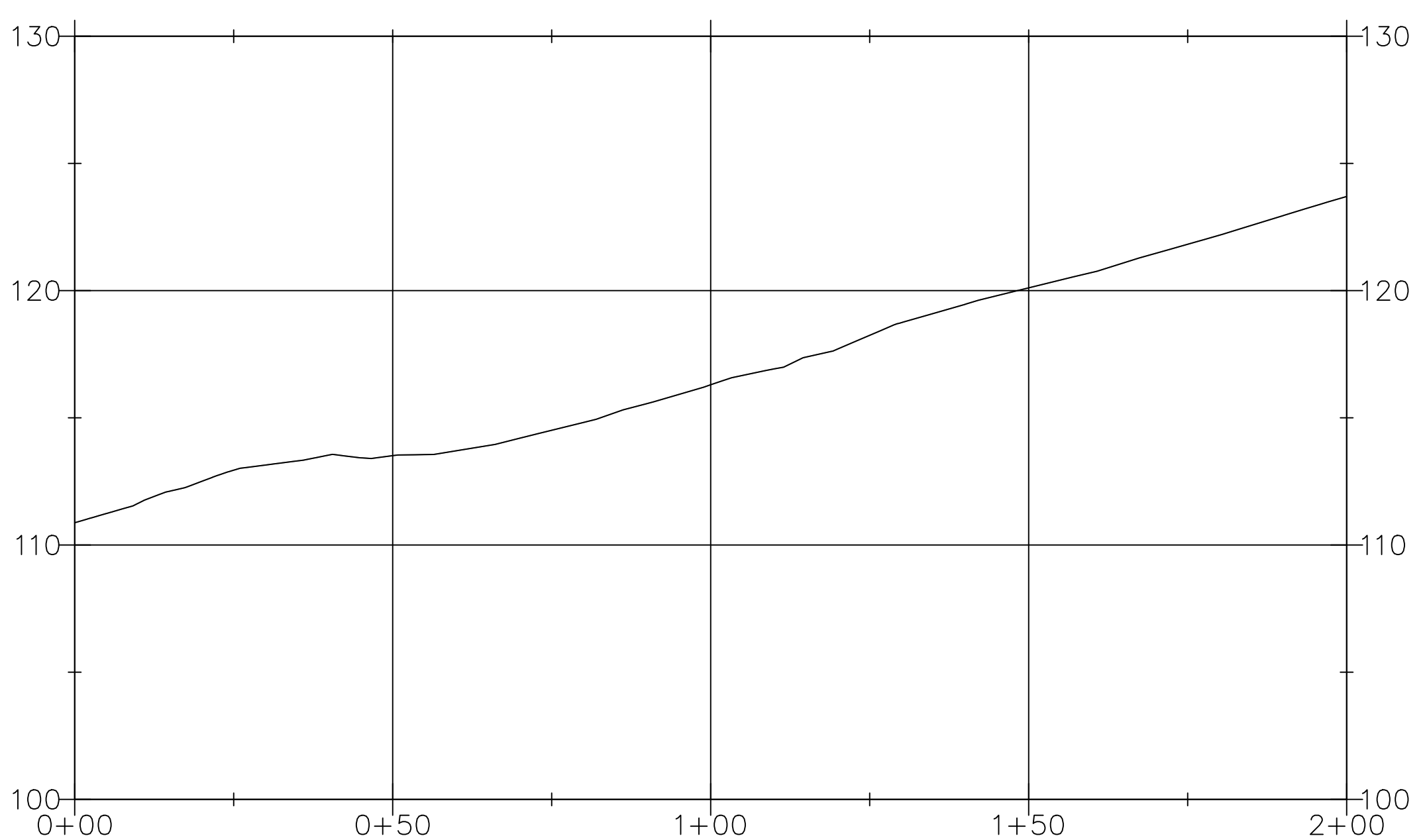


28TH AVENUE – NORTH PORTION  
STA 00+00 TO STA 1+46.2

VAN WATER STREET  
STA 00+00 TO STA 2+00



HOR. SCALE: 1"=20'  
VERT. SCALE: 1"=5'



HOR. SCALE: 1"=20'  
VERT. SCALE: 1"=5'

- STREET KEY NOTES**
- 1A) 2 INCH GRIND AND 2 INLAY WITH FIBER REINFORCED LEVEL 2 WARM MIX ASPHALT CEMENT. PROTECT AND ADJUST VALVE BOXES AND MANHOLES AS NEEDED.
  - 1B) 2 INCH GRIND AND 2 INLAY WITH LEVEL 2 WARM MIX ASPHALT CEMENT. INSTALL PAVEMENT OVERLAY GEOTEXTILE BEFORE POURING MIX. PROTECT AND ADJUST VALVE BOXES AND MANHOLES AS NEEDED.
  - 1C) INSTALL FULL DEPTH AC PAVEMENT.
  - 2) INSTALL AC PAVEMENT PANEL TO TIE INTO EXISTING DRIVEWAY.
  - 3) NOTE REMOVED.
  - 4) INSTALL MODIFIED LOW PROFILE MOUNTABLE CURB AND GUTTER. SEE OREGON STANDARD DRAWING (OSD) RD700, SHEET C512.
  - 5) INSTALL CURB AND GUTTER. SEE OSD RD700, SHEET C512.
  - 6) INSTALL STANDARD CURB. SEE OSD RD700, SHEET C512.
  - 7) INSTALL CURB LINE SIDEWALK WITH STANDARD CURB. SEE OSD RD720, SHEET C513 AND RD700, SHEET C512.
  - 8) INSTALL CURB RAMP. WORK WITH ENGINEER TO FIELD FIT GRADES.
    - a: OSD RD912 OPTION PR-1, SHEET C513
    - b: OSD RD916 OPTION PR-10, SHEET C513
    - c: OSD RD929 - MAY REQUIRE MODIFICATION TO FIT EXISTING SITE CONDITIONS, SHEET C513
    - d: OSD RD922, SHEET C514
    - e: OSD RD960 - MAY REQUIRE MODIFICATION TO FIT EXISTING SITE CONDITIONS, SHEET C514
  - 9) INSTALL CURB TIGHT DRIVEWAY APPROACH. CITY OF MILWAUKIE DRAWING S26, SHEET C512.
  - 10) INSTALL CURB TRANSITION FROM LOW PROFILE MOUNTABLE CURB AND GUTTER TO STANDARD CURB OR STANDARD CURB AND GUTTER. SEE DETAIL 5, SHEET C512.
  - 11) INSTALL MODIFIED LOW PROFILE MOUNTABLE CURB AND GUTTER WITH 0" TRANSITION BETWEEN CURB AND GUTTER AT DRIVEWAY. SEE OSD RD700, SHEET C512.
  - 12) INSTALL SUBGRADE STABILIZATION MEASURES WHERE EXISTING ROAD BASE IS FAILING OR NONEXISTENT.
  - 13) INSTALL CONCRETE PAD THAT CONVEYS WATERSHED TO THE CATCH BASIN.

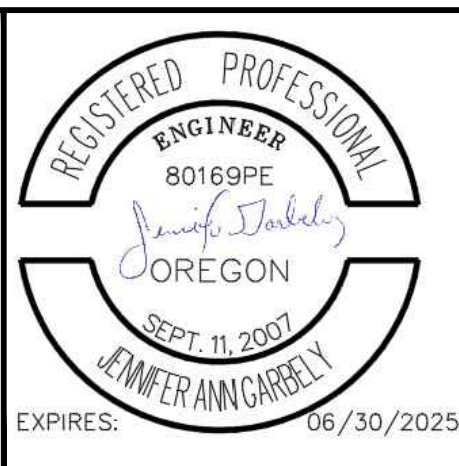
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1. PAVING NOTES AND DETAILS WITHIN THESE PLANS ARE INTENDED FOR DRY WEATHER CONSTRUCTION.
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  3. THE CONTRACTOR SHALL SAWCUT STRAIGHT MATCHLINES TO CREATE A BUTT JOINT BETWEEN THE EXISTING PAVEMENT AND NEW PAVEMENT. SAWCUT LINES SHOWN REPRESENT APPROXIMATE LOCATIONS. FINAL LOCATION SHALL BE APPROVED BY CITY. SEAL JOINTS WITH RUBBERIZED SEALANT IMMEDIATELY FOLLOWING PAVING.
  4. CONTRACTOR SHALL PROOF-ROLL SUBGRADE, SUBBASE OR BASE WITH 10 CUBIC YARD TRUCK LOADED FOR CITY INSPECTION.
  5. AGGREGATE BASE SHALL BE COMPACTED TO 95% MAX. DRY DENSITY AS DETERMINED BY AASHTO T-180.
  6. EACH LIFT OF ASPHALT CONCRETE SHALL BE COMPACTED TO 92% RICE DENSITY IN CONFORMANCE WITH AASHTO T-209.
  7. CONTRACTOR TO PROTECT NEW CONCRETE FINISH. CONTRACTOR RESPONSIBLE FOR REMOVING, REPLACING, AND DISPOSING OF MATERIAL IF FINISH DOES NOT MEET ENGINEERING STANDARDS.
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  9. SUBGRADE STABILIZATION WITH BASE ROCK AS NECESSARY PRIOR TO PLACEMENT OF ASPHALT.

**CONSTRUCTION LEGEND**

- FULL DEPTH AC PAVEMENT
- 2" GRIND & INLAY W/ FIBER ADDITIVE
- 2" GRIND & INLAY W/ GEOTEXTILE MAT
- GRAVEL SHOULDER
- SUBGRADE STABILIZATION AREA
- ASPHALT DRIVEWAY
- CONCRETE SIDEWALK/PAD

NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
JRN DRAFTED	9/13/2024	DATE
JAG CHECKED	9/16/2024	DATE
APPROVED		DATE



**CITY OF MILWAUKIE**

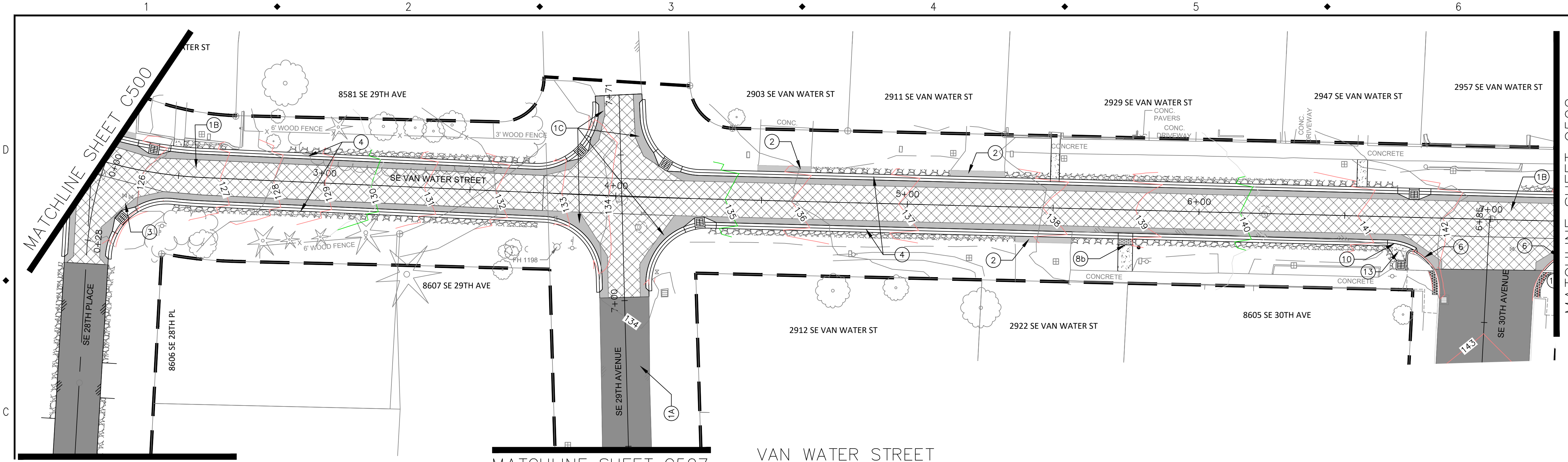
10501 SE MAIN STREET  
MILWAUKIE, OR 97222

PHONE: 503-786-7600  
FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**

ROADWAY CONSTRUCTION  
28TH AVE AND VAN WATER ST

PROJECT NO.: W61    SHEET NO.: 74 OF 93    DATE: 9/13/2024    SHEET: C500

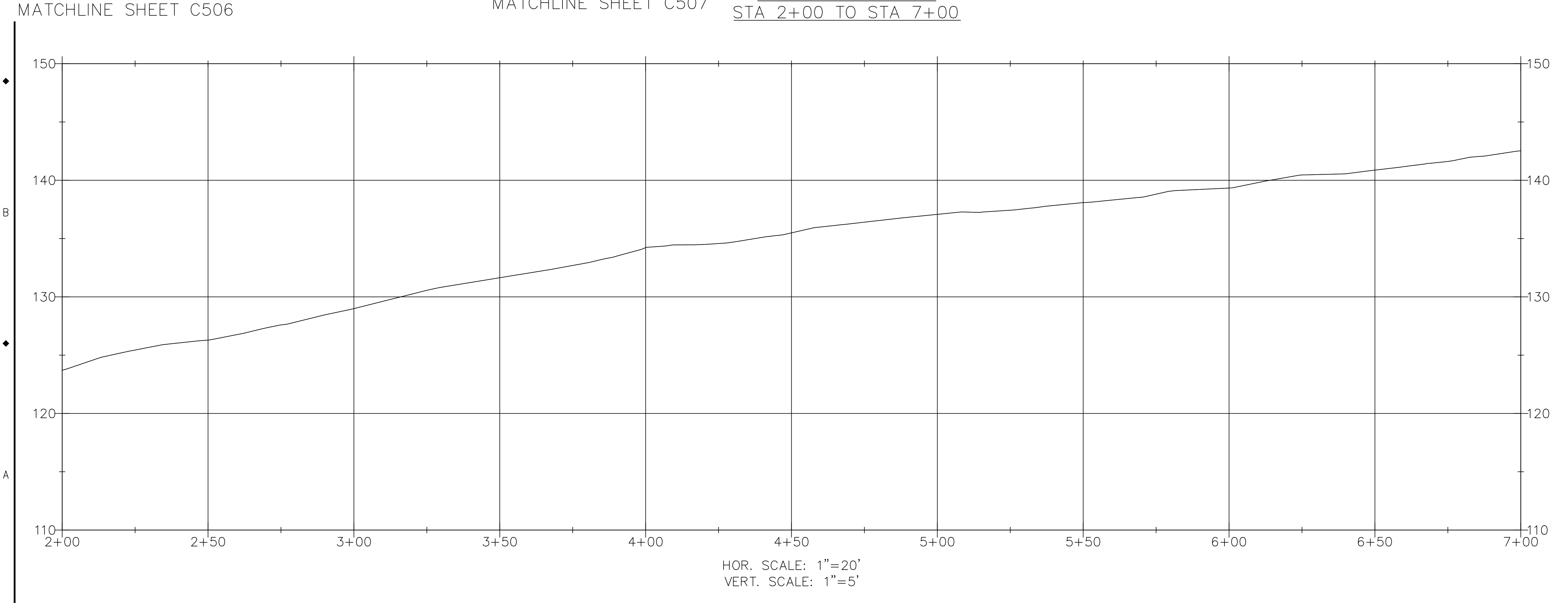


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  - 2 INSTALL AC PAVEMENT PANEL TO TIE INTO EXISTING DRIVEWAY.
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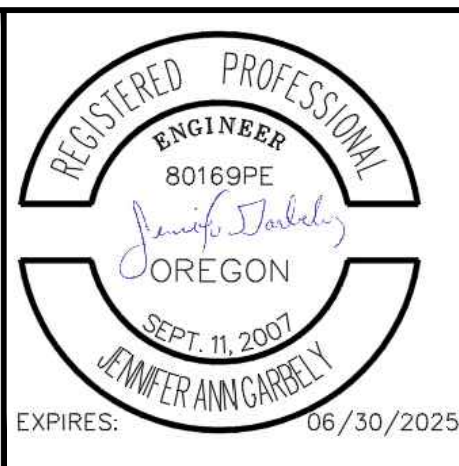
**CONSTRUCTION LEGEND**

- FULL DEPTH AC PAVEMENT
- 2" GRIND & INLAY W/ FIBER ADDITIVE
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- GRAVEL SHOULDER
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- ASPHALT DRIVEWAY
- CONCRETE SIDEWALK/PAD



NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
JRN DRAFTED	9/13/2024	DATE
JAG CHECKED	9/16/2024	DATE
APPROVED		DATE



**CITY OF MILWAUKIE**  
10501 SE MAIN STREET  
MILWAUKIE, OR 97222  
PHONE: 503-786-7600  
FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**

ROADWAY CONSTRUCTION  
VAN WATER ST - STA 2+00 TO STA 7+00

PROJECT NO.:	W61	SHEET NO.:	75 OF 93	DATE:	9/13/2024	SHEET:	C501
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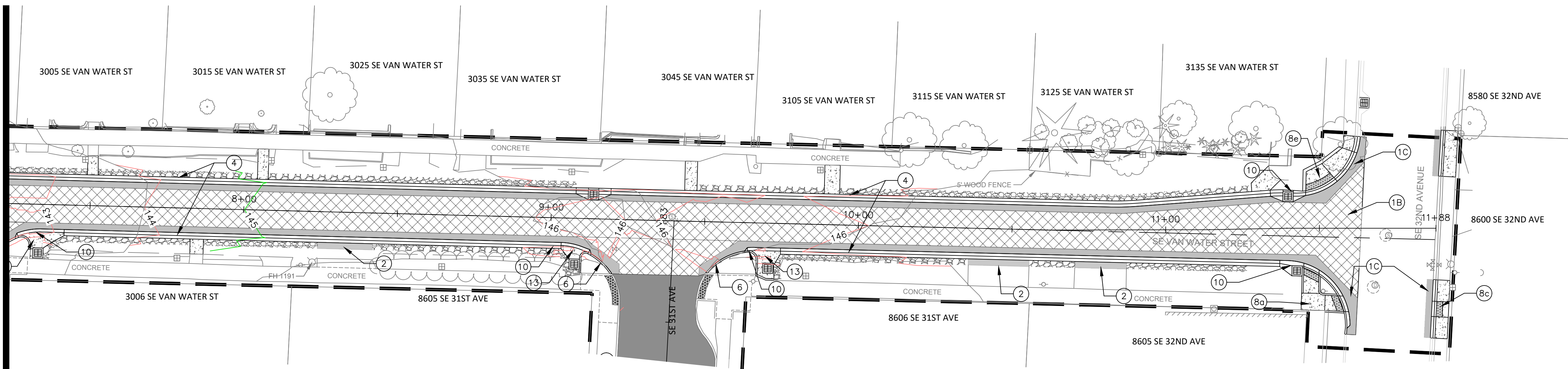
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C

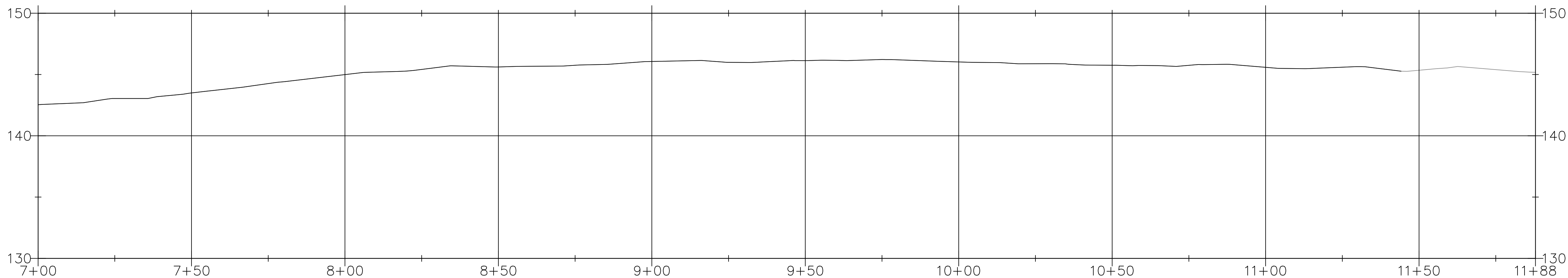
B

A

MATCHLINE SHEET C501



VAN WATER STREET  
STA 7+00 TO STA 11+65



HOR. SCALE: 1"=20'  
VERT. SCALE: 1"=5'

STREET KEY NOTES

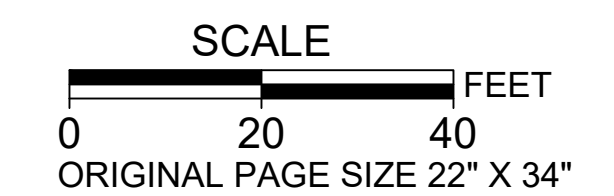
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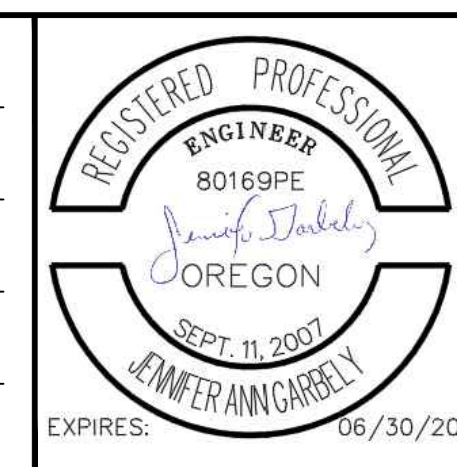
CONSTRUCTION LEGEND

- FULL DEPTH AC PAVEMENT
- 2" GRIND & INLAY W/ FIBER ADDITIVE
- 2" GRIND & INLAY W/ GEOTEXTILE MAT
- GRAVEL SHOULDER
- SUBGRADE STABILIZATION AREA
- ASPHALT DRIVEWAY
- CONCRETE SIDEWALK/PAD



NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
JRN DRAFTED	9/13/2024	DATE
JAG CHECKED	9/16/2024	DATE
APPROVED		DATE



CITY OF MILWAUKIE

10501 SE MAIN STREET  
MILWAUKIE, OR 97222

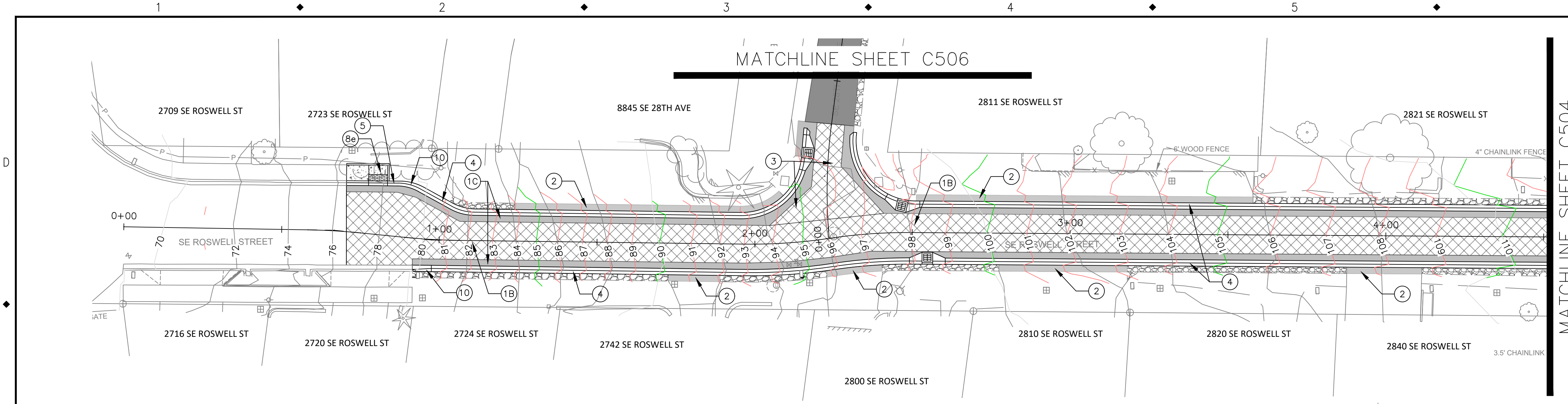
PHONE: 503-786-7600  
FAX: 503-774-8236

ARDENWALD NORTH IMPROVEMENTS

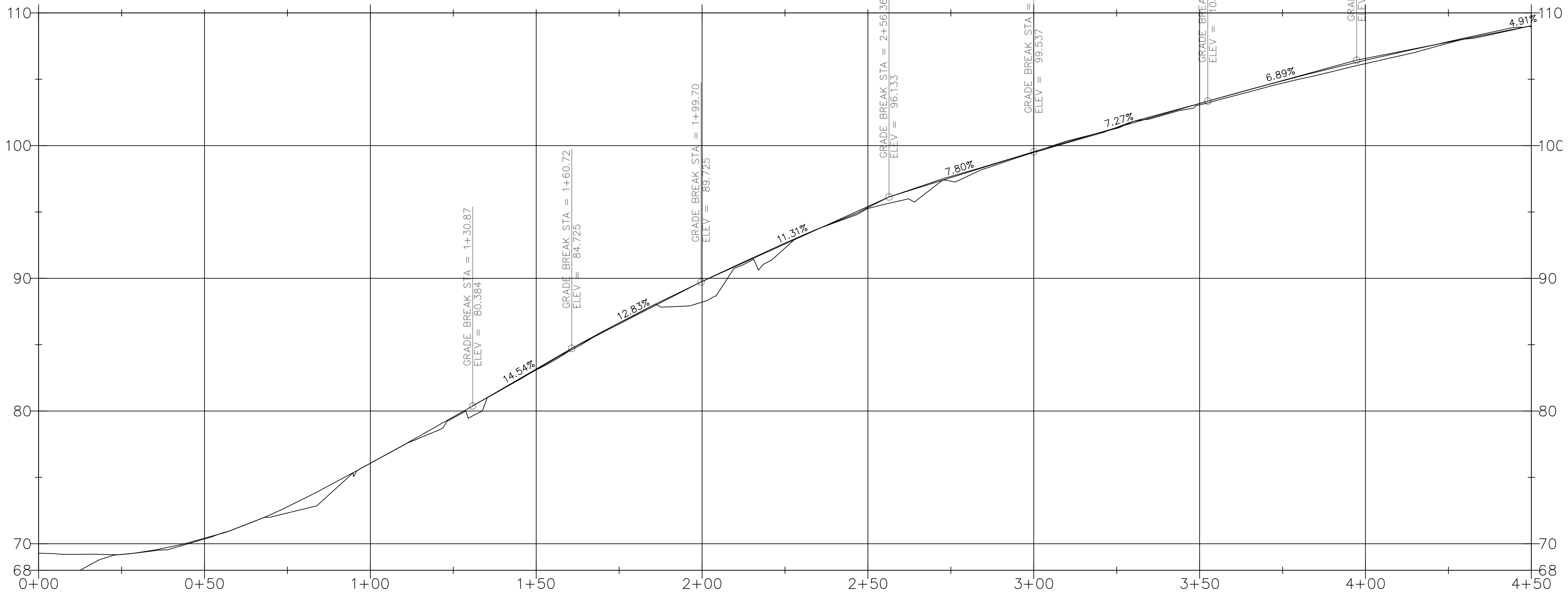
ROADWAY CONSTRUCTION

VAN WATER ST - STA 7+00 TO 11+65

PROJECT NO.:	W61	SHEET NO.:	76 OF 93	DATE:	9/13/2024	SHEET:	C502
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ROSWELL STREET  
STA 0+00 TO STA 4+50



HOR. SCALE: 1"=20'  
VERT. SCALE: 1"=5'

- STREET KEY NOTES**
- 1A 2 INCH GRIND AND 2 INLAY WITH FIBER REINFORCED LEVEL 2 WARM MIX ASPHALT CEMENT. PROTECT AND ADJUST VALVE BOXES AND MANHOLES AS NEEDED.
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**CONSTRUCTION LEGEND**

- FULL DEPTH AC PAVEMENT
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SCALE  
0 20 40 FEET  
ORIGINAL PAGE SIZE 22" X 34"

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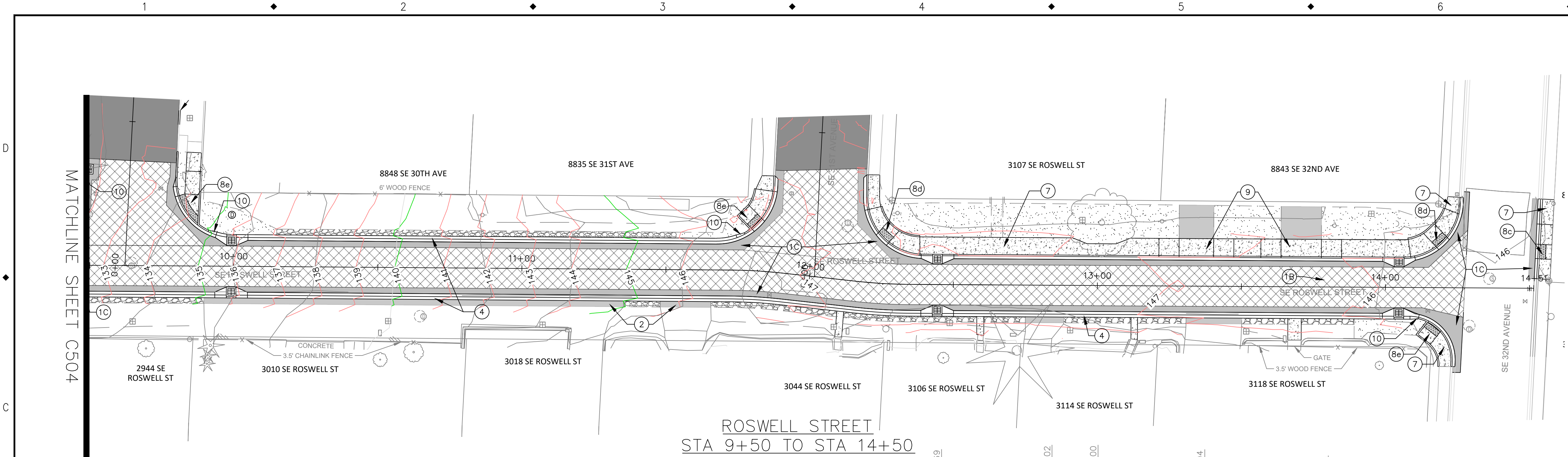
**CITY OF MILWAUKIE**  
10501 SE MAIN STREET  
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**ARDENWALD NORTH IMPROVEMENTS**

ROADWAY CONSTRUCTION  
ROSWELL ST - STA 0+00 TO STA 4+50

PROJECT NO.:	W61	SHEET NO.:	77 OF 93	DATE:	9/13/2024	SHEET:	C503
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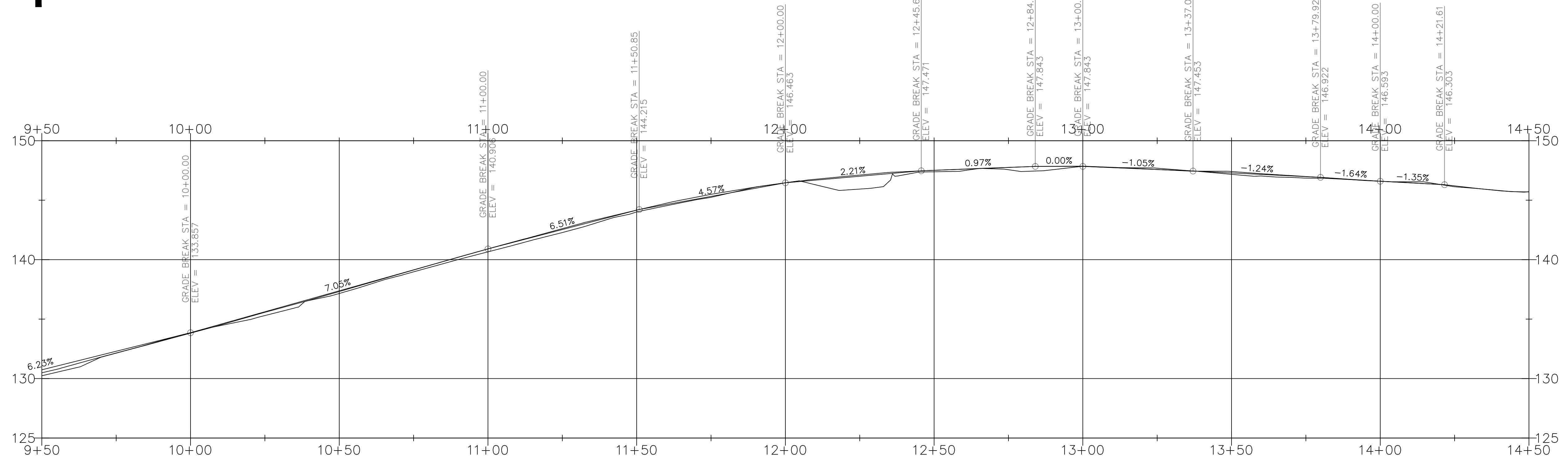


ROSWELL STREET  
STA 9+50 TO STA 14+50

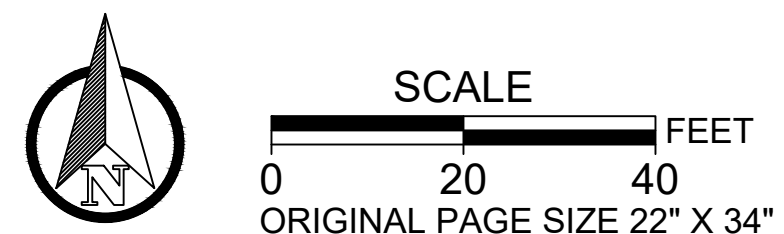
- STREET KEY NOTES**
- 1A 2 INCH GRIND AND 2 INLAY WITH FIBER REINFORCED LEVEL 2 WARM MIX ASPHALT CEMENT. PROTECT AND ADJUST VALVE BOXES AND MANHOLES AS NEEDED.
  - 1B 2 INCH GRIND AND 2 INLAY WITH LEVEL 2 WARM MIX ASPHALT CEMENT. INSTALL PAVEMENT OVERLAY GEOTEXTILE BEFORE POURING MIX. PROTECT AND ADJUST VALVE BOXES AND MANHOLES AS NEEDED.
  - 1C INSTALL FULL DEPTH AC PAVEMENT.
  - 2 INSTALL AC PAVEMENT PANEL TO TIE INTO EXISTING DRIVEWAY.
  - 3 NOTE REMOVED.
  - 4 INSTALL MODIFIED LOW PROFILE MOUNTABLE CURB AND GUTTER. SEE OREGON STANDARD DRAWING (OSD) RD700, SHEET C512.
  - 5 INSTALL CURB AND GUTTER. SEE OSD RD700, SHEET C512.
  - 6 INSTALL STANDARD CURB. SEE OSD RD700, SHEET C512.
  - 7 INSTALL CURB LINE SIDEWALK WITH STANDARD CURB. SEE OSD RD720, SHEET C513 AND RD700, SHEET C512.
  - 8 INSTALL CURB RAMP. WORK WITH ENGINEER TO FIELD FIT GRADES.
    - a: OSD RD912 OPTION PR-1, SHEET C513
    - b: OSD RD916 OPTION PR-10, SHEET C513
    - c: OSD RD920 - MAY REQUIRE MODIFICATION TO FIT EXISTING SITE CONDITIONS, SHEET C513
    - d: OSD RD922, SHEET C514
    - e: OSD RD960 - MAY REQUIRE MODIFICATION TO FIT EXISTING SITE CONDITIONS, SHEET C514
  - 9 INSTALL CURB TIGHT DRIVEWAY APPROACH. CITY OF MILWAUKIE DRAWING 526, SHEET C512.
  - 10 INSTALL CURB TRANSITION FROM LOW PROFILE MOUNTABLE CURB AND GUTTER TO STANDARD CURB OR STANDARD CURB AND GUTTER. SEE DETAIL 5, SHEET C512.
  - 11 INSTALL MODIFIED LOW PROFILE MOUNTABLE CURB AND GUTTER WITH 0" TRANSITION BETWEEN CURB AND GUTTER AT DRIVEWAY. SEE OSD RD700, SHEET C512.
  - 12 INSTALL SUBGRADE STABILIZATION MEASURES WHERE EXISTING ROAD BASE IS FAILING OR NONEXISTENT.
  - 13 INSTALL CONCRETE PAD THAT CONVEYS WATERSHED TO THE CATCH BASIN.

- STREET NOTES**
1. PAVING NOTES AND DETAILS WITHIN THESE PLANS ARE INTENDED FOR DRY WEATHER CONSTRUCTION.
  2. THE CONTRACTOR SHALL ADJUST ALL VALVE BOXES, MANHOLES AND WATER METER BOXES TO FINISHED STREET, DRIVEWAY, OR SIDEWALK GRADE.
  3. THE CONTRACTOR SHALL SAWCUT STRAIGHT MATCHLINES TO CREATE A BUTT JOINT BETWEEN THE EXISTING PAVEMENT AND NEW PAVEMENT. SAWCUT LINES SHOWN REPRESENT APPROXIMATE LOCATIONS. FINAL LOCATION SHALL BE APPROVED BY CITY. SEAL JOINTS WITH RUBBERIZED SEALANT IMMEDIATELY FOLLOWING PAVING.
  4. CONTRACTOR SHALL PROOF-ROLL SUBGRADE, SUBBASE OR BASE WITH 10 CUBIC YARD TRUCK LOADED FOR CITY INSPECTION.
  5. AGGREGATE BASE SHALL BE COMPACTED TO 95% MAX. DRY DENSITY AS DETERMINED BY AASHTO T-180.
  6. EACH LIFT OF ASPHALT CONCRETE SHALL BE COMPACTED TO 92% RICE DENSITY IN CONFORMANCE WITH AASHTO T-209.
  7. CONTRACTOR TO PROTECT NEW CONCRETE FINISH. CONTRACTOR RESPONSIBLE FOR REMOVING, REPLACING, AND DISPOSING OF MATERIAL IF FINISH DOES NOT MEET ENGINEERING STANDARDS.
  8. AC PAVEMENT PANEL AND CONCRETE ENTRY WALK DIMENSIONS ARE APPROXIMATE FOR ESTIMATING PURPOSES. FINAL DIMENSIONS WILL BE BASED ON ACTUAL FIELD CONDITIONS.
  9. SUBGRADE STABILIZATION WITH BASE ROCK AS NECESSARY PRIOR TO PLACEMENT OF ASPHALT.

- CONSTRUCTION LEGEND**
- FULL DEPTH AC PAVEMENT
  - 2" GRIND & INLAY W/ FIBER ADDITIVE
  - 2" GRIND & INLAY W/ GEOTEXTILE MAT
  - GRAVEL SHOULDER
  - SUBGRADE STABILIZATION AREA
  - ASPHALT DRIVEWAY
  - CONCRETE SIDEWALK/PAD

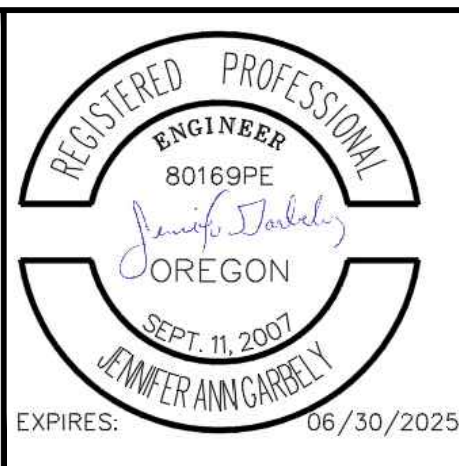


HOR. SCALE: 1"=20'  
VERT. SCALE: 1"=5'



NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
JRN DRAFTED	9/13/2024	DATE
JAG CHECKED	9/16/2024	DATE
APPROVED		DATE



**CITY OF MILWAUKIE**

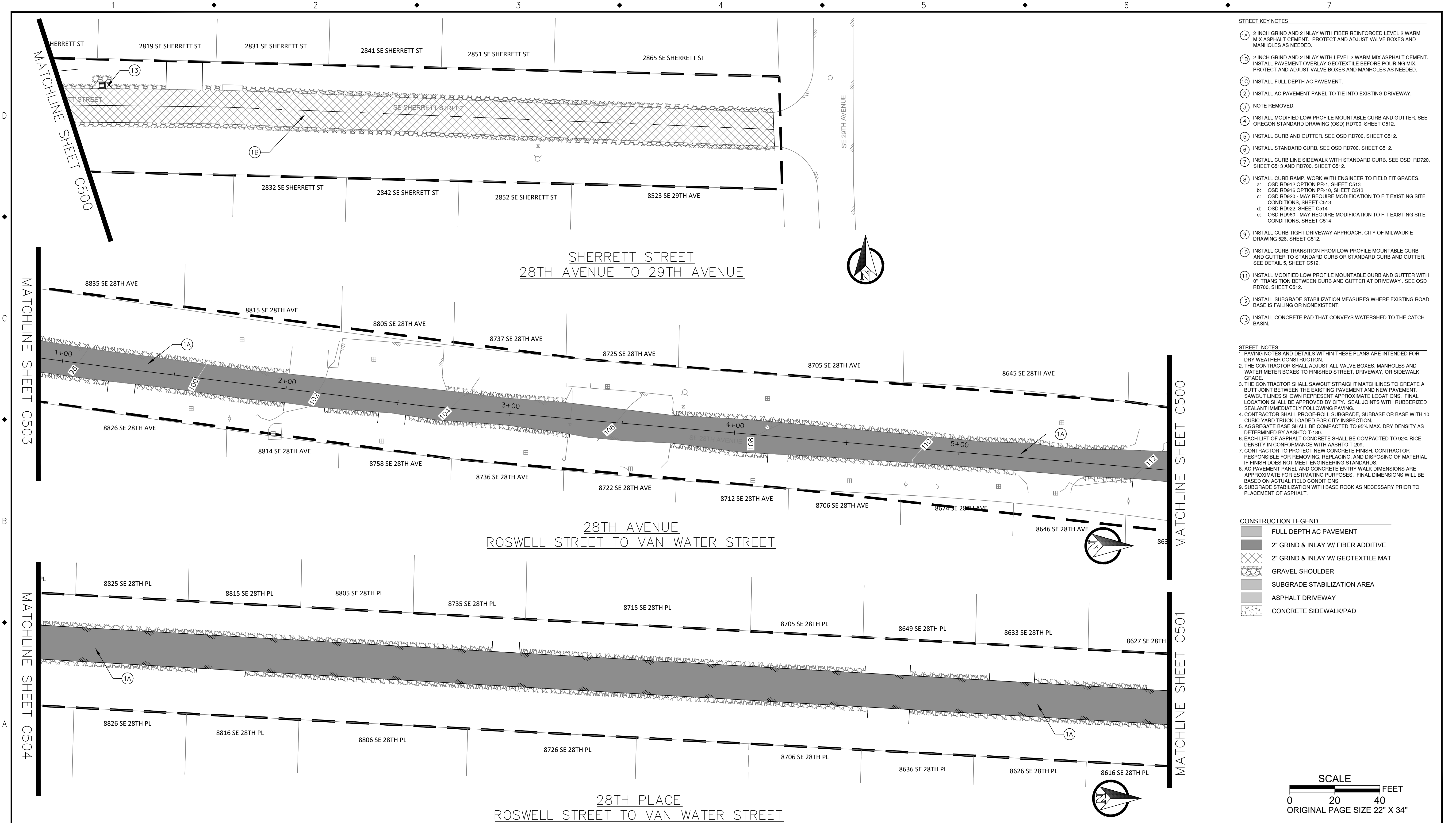
10501 SE MAIN STREET  
MILWAUKIE, OR 97222

PHONE: 503-786-7600  
FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**

ROADWAY CONSTRUCTION  
ROSWELL ST - STA 9+50 TO STA 14+50

PROJECT NO.: W61    SHEET NO.: 79 OF 93    DATE: 9/13/2024    SHEET: C505

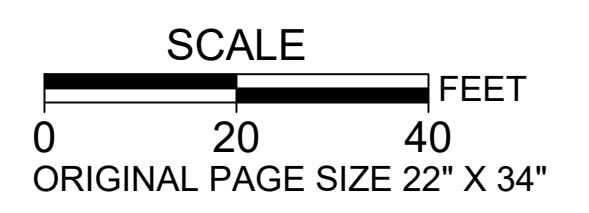


- STREET KEY NOTES**
- 1A) 2 INCH GRIND AND 2 INLAY WITH FIBER REINFORCED LEVEL 2 WARM MIX ASPHALT CEMENT. PROTECT AND ADJUST VALVE BOXES AND MANHOLES AS NEEDED.
  - 1B) 2 INCH GRIND AND 2 INLAY WITH LEVEL 2 WARM MIX ASPHALT CEMENT. INSTALL PAVEMENT OVERLAY GEOTEXTILE BEFORE POURING MIX. PROTECT AND ADJUST VALVE BOXES AND MANHOLES AS NEEDED.
  - 1C) INSTALL FULL DEPTH AC PAVEMENT.
  - 2) INSTALL AC PAVEMENT PANEL TO TIE INTO EXISTING DRIVEWAY.
  - 3) NOTE REMOVED.
  - 4) INSTALL MODIFIED LOW PROFILE MOUNTABLE CURB AND GUTTER. SEE OREGON STANDARD DRAWING (OSD) RD700, SHEET C512.
  - 5) INSTALL CURB AND GUTTER. SEE OSD RD700, SHEET C512.
  - 6) INSTALL STANDARD CURB. SEE OSD RD700, SHEET C512.
  - 7) INSTALL CURB LINE SIDEWALK WITH STANDARD CURB. SEE OSD RD720, SHEET C513 AND RD700, SHEET C512.
  - 8) INSTALL CURB RAMP. WORK WITH ENGINEER TO FIELD FIT GRADES.
    - a: OSD RD912 OPTION PR-1, SHEET C513
    - b: OSD RD916 OPTION PR-10, SHEET C513
    - c: OSD RD920 - MAY REQUIRE MODIFICATION TO FIT EXISTING SITE CONDITIONS, SHEET C513
    - d: OSD RD922, SHEET C514
    - e: OSD RD960 - MAY REQUIRE MODIFICATION TO FIT EXISTING SITE CONDITIONS, SHEET C514
  - 9) INSTALL CURB TIGHT DRIVEWAY APPROACH. CITY OF MILWAUKIE DRAWING 526, SHEET C512.
  - 10) INSTALL CURB TRANSITION FROM LOW PROFILE MOUNTABLE CURB AND GUTTER TO STANDARD CURB OR STANDARD CURB AND GUTTER. SEE DETAIL 5, SHEET C512.
  - 11) INSTALL MODIFIED LOW PROFILE MOUNTABLE CURB AND GUTTER WITH 0" TRANSITION BETWEEN CURB AND GUTTER AT DRIVEWAY. SEE OSD RD700, SHEET C512.
  - 12) INSTALL SUBGRADE STABILIZATION MEASURES WHERE EXISTING ROAD BASE IS FAILING OR NONEXISTENT.
  - 13) INSTALL CONCRETE PAD THAT CONVEYS WATERSHED TO THE CATCH BASIN.

- STREET NOTES**
1. PAVING NOTES AND DETAILS WITHIN THESE PLANS ARE INTENDED FOR DRY WEATHER CONSTRUCTION.
  2. THE CONTRACTOR SHALL ADJUST ALL VALVE BOXES, MANHOLES AND WATER METER BOXES TO FINISHED STREET, DRIVEWAY, OR SIDEWALK GRADE.
  3. THE CONTRACTOR SHALL SAWCUT STRAIGHT MATCHLINES TO CREATE A BUTT JOINT BETWEEN THE EXISTING PAVEMENT AND NEW PAVEMENT. SAWCUT LINES SHOWN REPRESENT APPROXIMATE LOCATIONS. FINAL LOCATION SHALL BE APPROVED BY CITY. SEAL JOINTS WITH RUBBERIZED SEALANT IMMEDIATELY FOLLOWING PAVING.
  4. CONTRACTOR SHALL PROOF-ROLL SUBGRADE, SUBBASE OR BASE WITH 10 CUBIC YARD TRUCK LOADED FOR CITY INSPECTION.
  5. AGGREGATE BASE SHALL BE COMPACTED TO 95% MAX. DRY DENSITY AS DETERMINED BY AASHTO T-180.
  6. EACH LIFT OF ASPHALT CONCRETE SHALL BE COMPACTED TO 92% RICE DENSITY IN CONFORMANCE WITH AASHTO T-209.
  7. CONTRACTOR TO PROTECT NEW CONCRETE FINISH. CONTRACTOR RESPONSIBLE FOR REMOVING, REPLACING, AND DISPOSING OF MATERIAL IF FINISH DOES NOT MEET ENGINEERING STANDARDS.
  8. AC PAVEMENT PANEL AND CONCRETE ENTRY WALK DIMENSIONS ARE APPROXIMATE FOR ESTIMATING PURPOSES. FINAL DIMENSIONS WILL BE BASED ON ACTUAL FIELD CONDITIONS.
  9. SUBGRADE STABILIZATION WITH BASE ROCK AS NECESSARY PRIOR TO PLACEMENT OF ASPHALT.

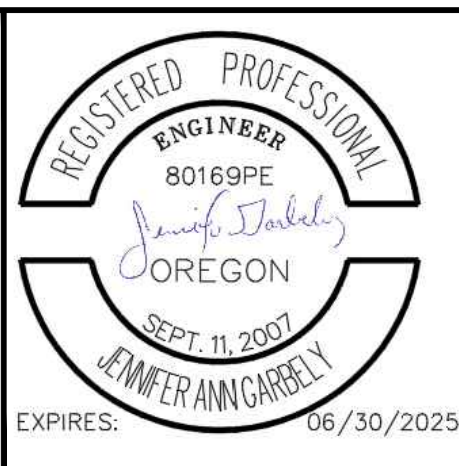
**CONSTRUCTION LEGEND**

- FULL DEPTH AC PAVEMENT
- 2" GRIND & INLAY W/ FIBER ADDITIVE
- 2" GRIND & INLAY W/ GEOTEXTILE MAT
- GRAVEL SHOULDER
- SUBGRADE STABILIZATION AREA
- ASPHALT DRIVEWAY
- CONCRETE SIDEWALK/PAD



NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
JRN DRAFTED	9/13/2024	DATE
JAG CHECKED	9/16/2024	DATE
APPROVED		DATE



**CITY OF MILWAUKIE**

10501 SE MAIN STREET  
MILWAUKIE, OR 97222

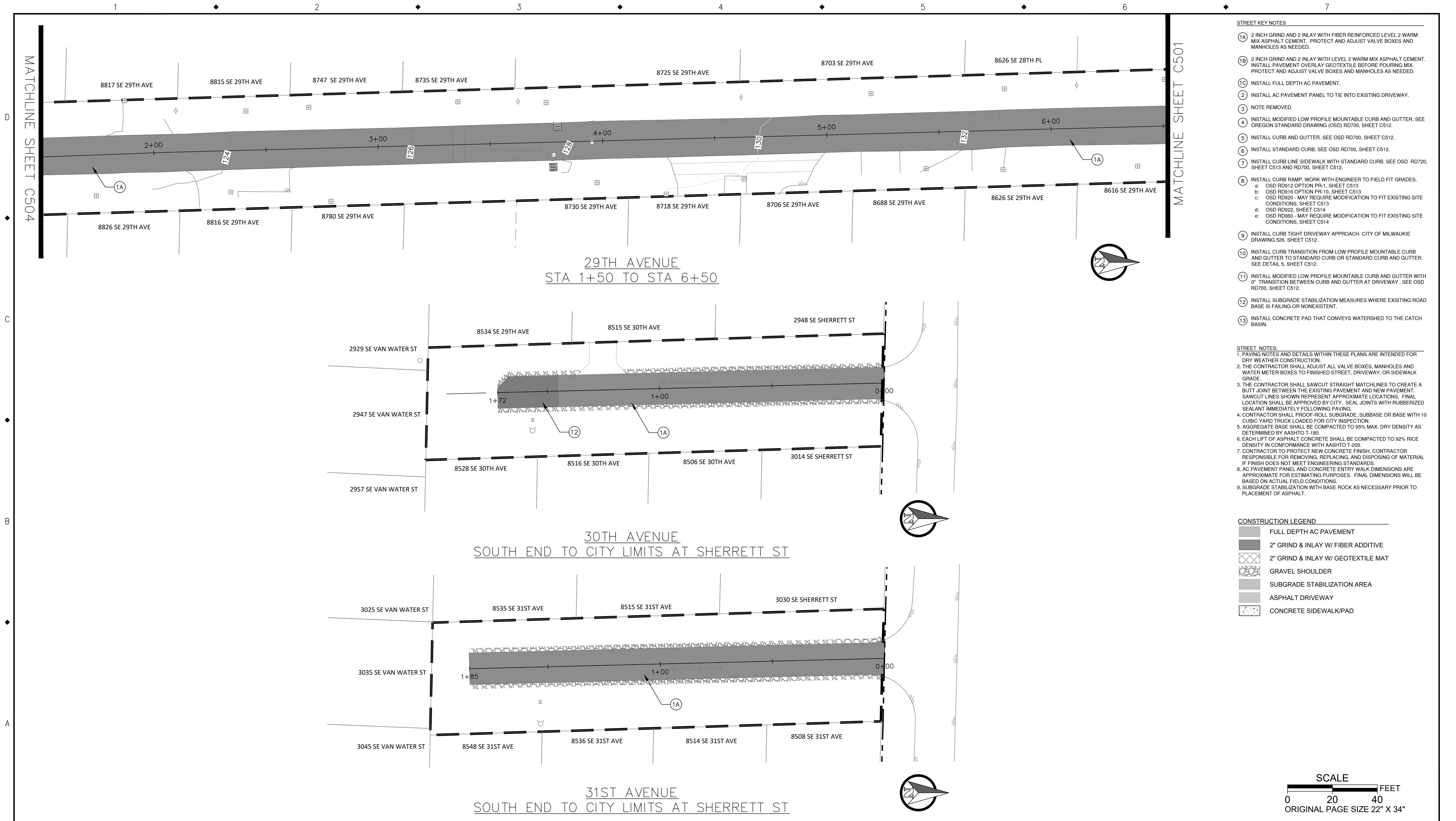
PHONE: 503-786-7600  
FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**

ROADWAY CONSTRUCTION  
SHERRETT ST, 28TH AVE & 28TH PL

PROJECT NO.: W61    SHEET NO.: 80 OF 93    DATE: 9/13/2024    SHEET: C506

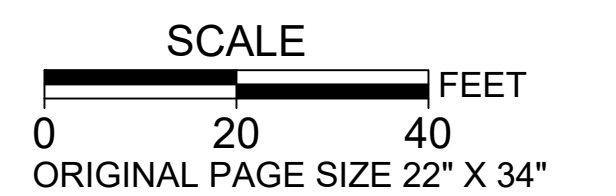




- STREET KEY NOTES**
- 1A 2 INCH GRIND AND 2 INLAY WITH FIBER REINFORCED LEVEL 2 WARM MIX ASPHALT CEMENT. PROTECT AND ADJUST VALVE BOXES AND MANHOLES AS NEEDED.
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  - 2 INSTALL AC PAVEMENT PANEL TO TIE INTO EXISTING DRIVEWAY.
  - 3 NOTE REMOVED.
  - 4 INSTALL MODIFIED LOW PROFILE MOUNTABLE CURB AND GUTTER. SEE OREGON STANDARD DRAWING (OSD) RD700, SHEET C512.
  - 5 INSTALL CURB AND GUTTER. SEE OSD RD700, SHEET C512.
  - 6 INSTALL STANDARD CURB. SEE OSD RD700, SHEET C512.
  - 7 INSTALL CURB LINE SIDEWALK WITH STANDARD CURB. SEE OSD RD720, SHEET C513 AND RD700, SHEET C512.
  - 8 INSTALL CURB RAMP. WORK WITH ENGINEER TO FIELD FIT GRADES.
    - a: OSD RD912 OPTION PR-1, SHEET C513
    - b: OSD RD916 OPTION PR-10, SHEET C513
    - c: OSD RD929 - MAY REQUIRE MODIFICATION TO FIT EXISTING SITE CONDITIONS, SHEET C513
    - d: OSD RD922, SHEET C514
    - e: OSD RD960 - MAY REQUIRE MODIFICATION TO FIT EXISTING SITE CONDITIONS, SHEET C514
  - 9 INSTALL CURB TIGHT DRIVEWAY APPROACH. CITY OF MILWAUKIE DRAWING 526, SHEET C512.
  - 10 INSTALL CURB TRANSITION FROM LOW PROFILE MOUNTABLE CURB AND GUTTER TO STANDARD CURB OR STANDARD CURB AND GUTTER. SEE DETAIL 5, SHEET C512.
  - 11 INSTALL MODIFIED LOW PROFILE MOUNTABLE CURB AND GUTTER WITH 0" TRANSITION BETWEEN CURB AND GUTTER AT DRIVEWAY. SEE OSD RD700, SHEET C512.
  - 12 INSTALL SUBGRADE STABILIZATION MEASURES WHERE EXISTING ROAD BASE IS FAILING OR NONEXISTENT.
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- STREET NOTES**
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  5. AGGREGATE BASE SHALL BE COMPACTED TO 95% MAX. DRY DENSITY AS DETERMINED BY AASHTO T-180.
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  8. AC PAVEMENT PANEL AND CONCRETE ENTRY WALK DIMENSIONS ARE APPROXIMATE FOR ESTIMATING PURPOSES. FINAL DIMENSIONS WILL BE BASED ON ACTUAL FIELD CONDITIONS.
  9. SUBGRADE STABILIZATION WITH BASE ROCK AS NECESSARY PRIOR TO PLACEMENT OF ASPHALT.

- CONSTRUCTION LEGEND**
- FULL DEPTH AC PAVEMENT
  - 2" GRIND & INLAY W/ FIBER ADDITIVE
  - 2" GRIND & INLAY W/ GEOTEXTILE MAT
  - GRAVEL SHOULDER
  - SUBGRADE STABILIZATION AREA
  - ASPHALT DRIVEWAY
  - CONCRETE SIDEWALK/PAD



NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
JRN DRAFTED	9/13/2024	DATE
JAG CHECKED	9/16/2024	DATE
APPROVED		DATE



**CITY OF MILWAUKIE**

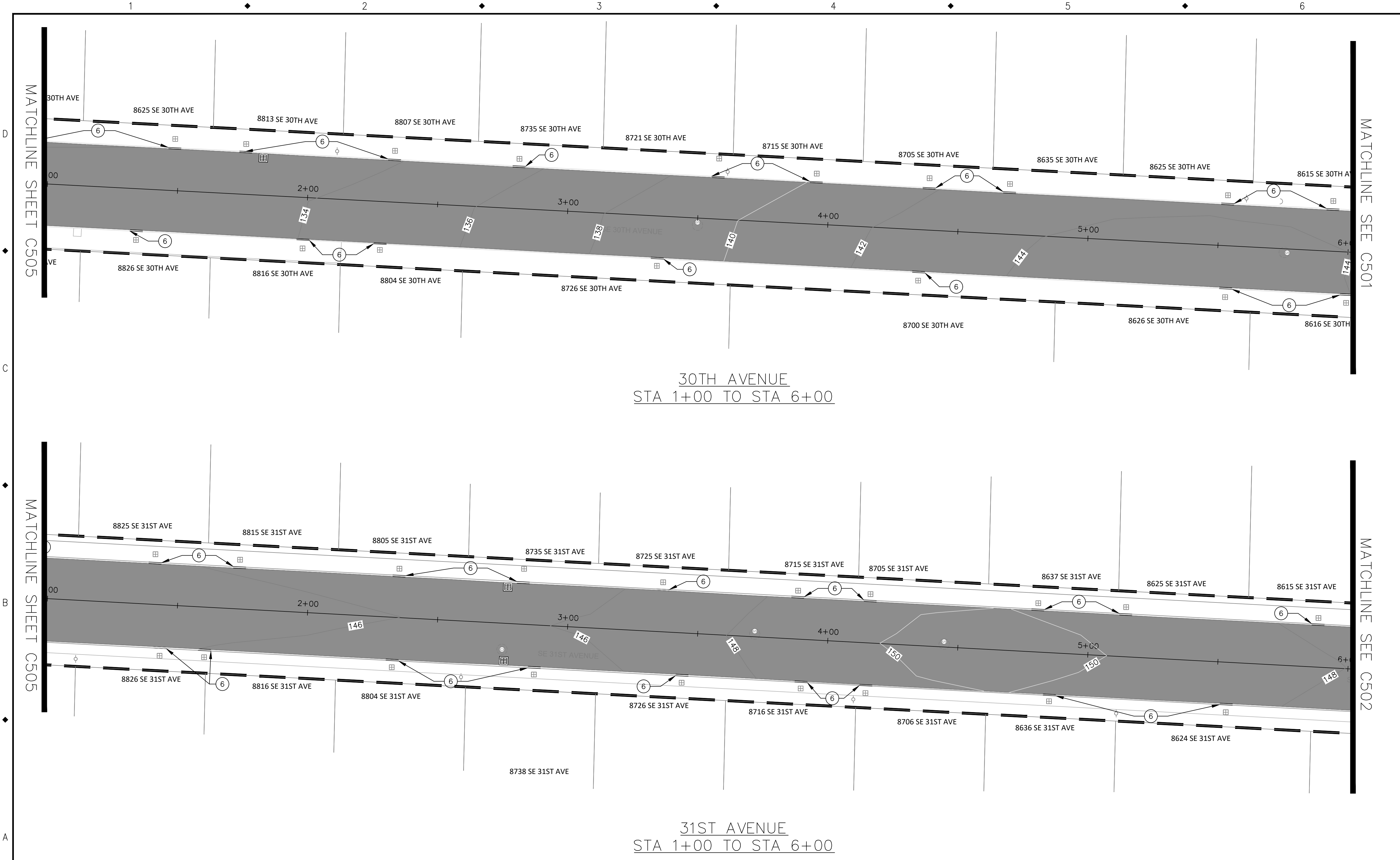
10501 SE MAIN STREET  
MILWAUKIE, OR 97222

PHONE: 503-786-7600  
FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**

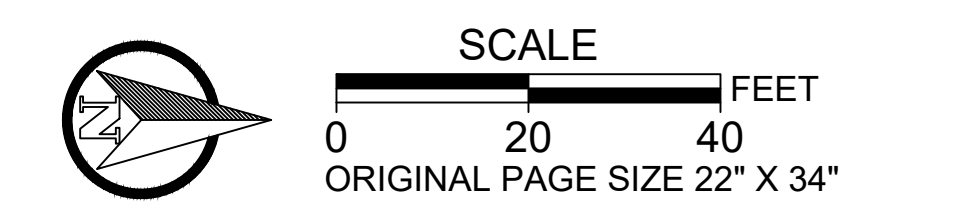
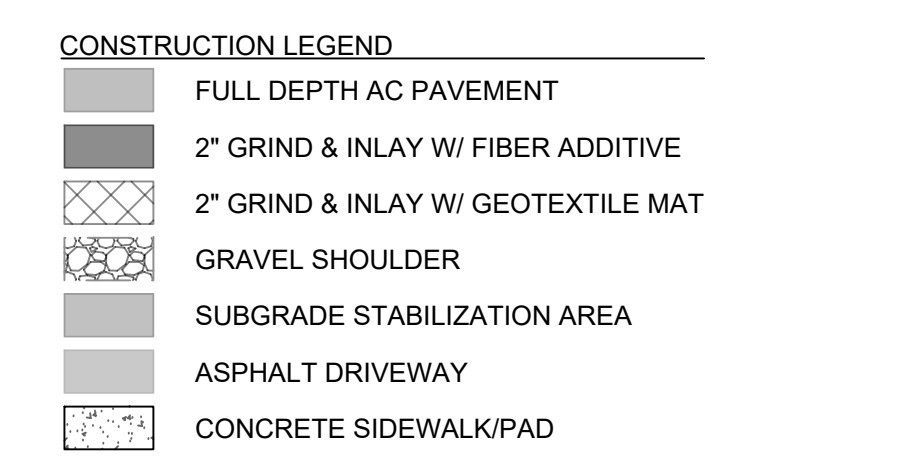
ROADWAY CONSTRUCTION  
29TH AVE, 30TH AVE & 31ST AVE

PROJECT NO.:	W61	SHEET NO.:	81 OF 93	DATE:	9/13/2024	SHEET:	C507
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- STREET KEY NOTES**
- 1A 2 INCH GRIND AND 2 INLAY WITH FIBER REINFORCED LEVEL 2 WARM MIX ASPHALT CEMENT. PROTECT AND ADJUST VALVE BOXES AND MANHOLES AS NEEDED.
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  - 6 INSTALL STANDARD CURB. SEE OSD RD700, SHEET C512.
  - 7 INSTALL CURB LINE SIDEWALK WITH STANDARD CURB. SEE OSD RD720, SHEET C513 AND RD700, SHEET C512.
  - 8 INSTALL CURB RAMP. WORK WITH ENGINEER TO FIELD FIT GRADES.
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    - b: OSD RD916 OPTION PR-10, SHEET C513
    - c: OSD RD920 - MAY REQUIRE MODIFICATION TO FIT EXISTING SITE CONDITIONS, SHEET C513
    - d: OSD RD922, SHEET C514
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  - 12 INSTALL SUBGRADE STABILIZATION MEASURES WHERE EXISTING ROAD BASE IS FAILING OR NONEXISTENT.
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TAP DESIGNED	3/11/2022	DATE
JRN DRAFTED	9/13/2024	DATE
JAG CHECKED	9/16/2024	DATE
APPROVED		DATE



**CITY OF MILWAUKIE**

10501 SE MAIN STREET  
MILWAUKIE, OR 97222

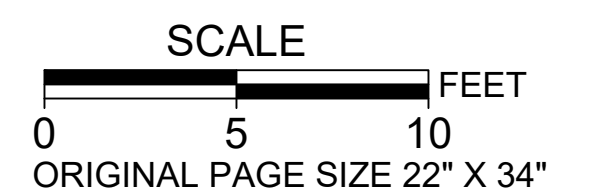
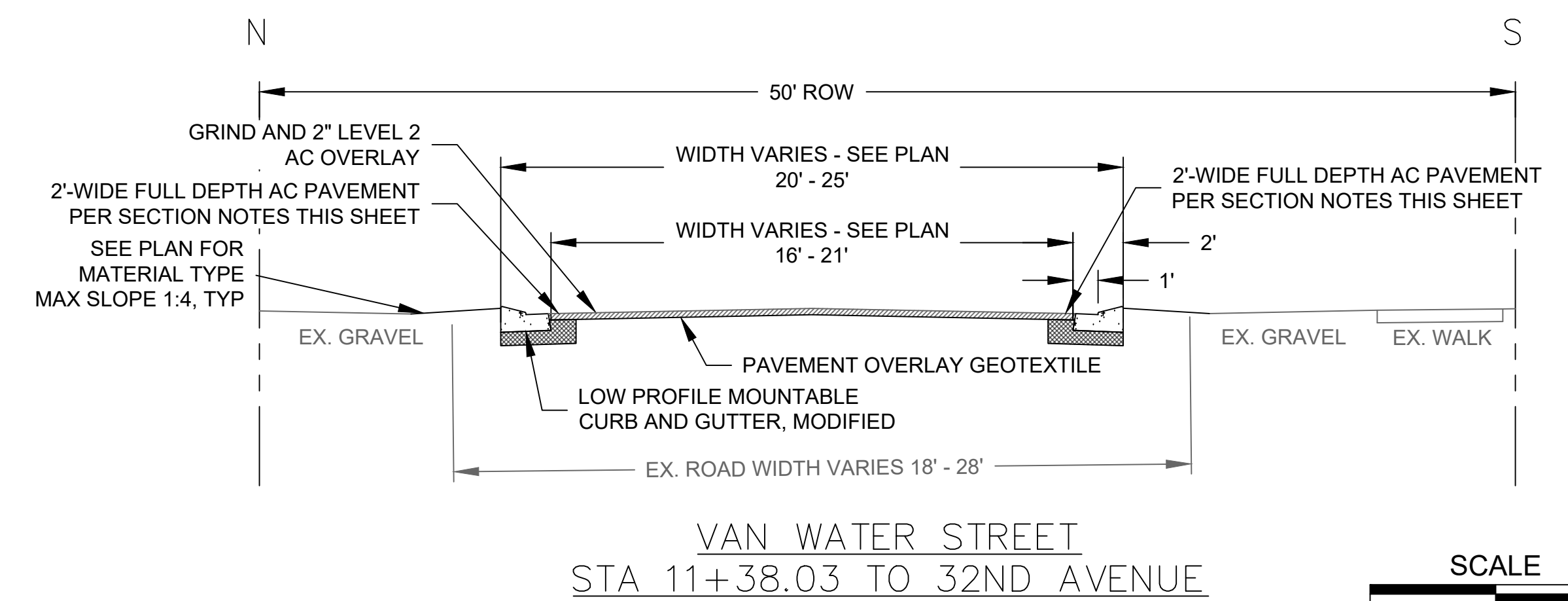
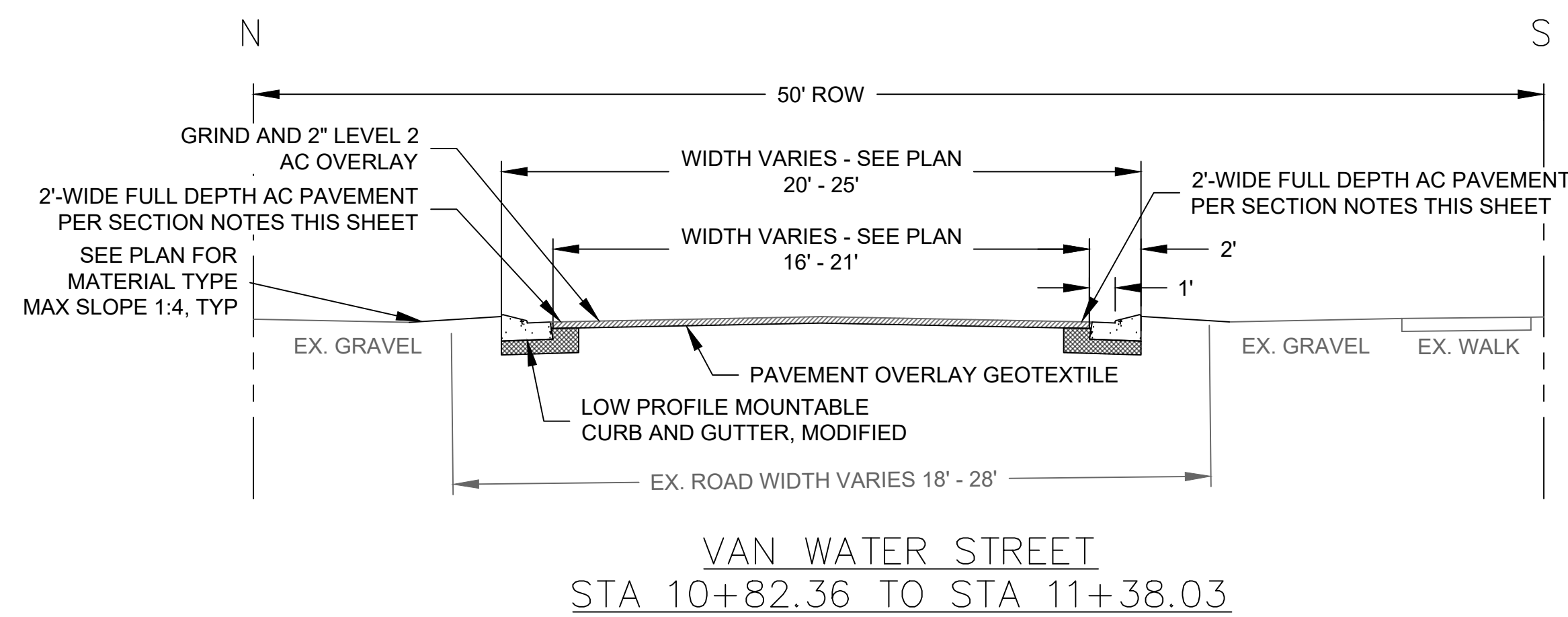
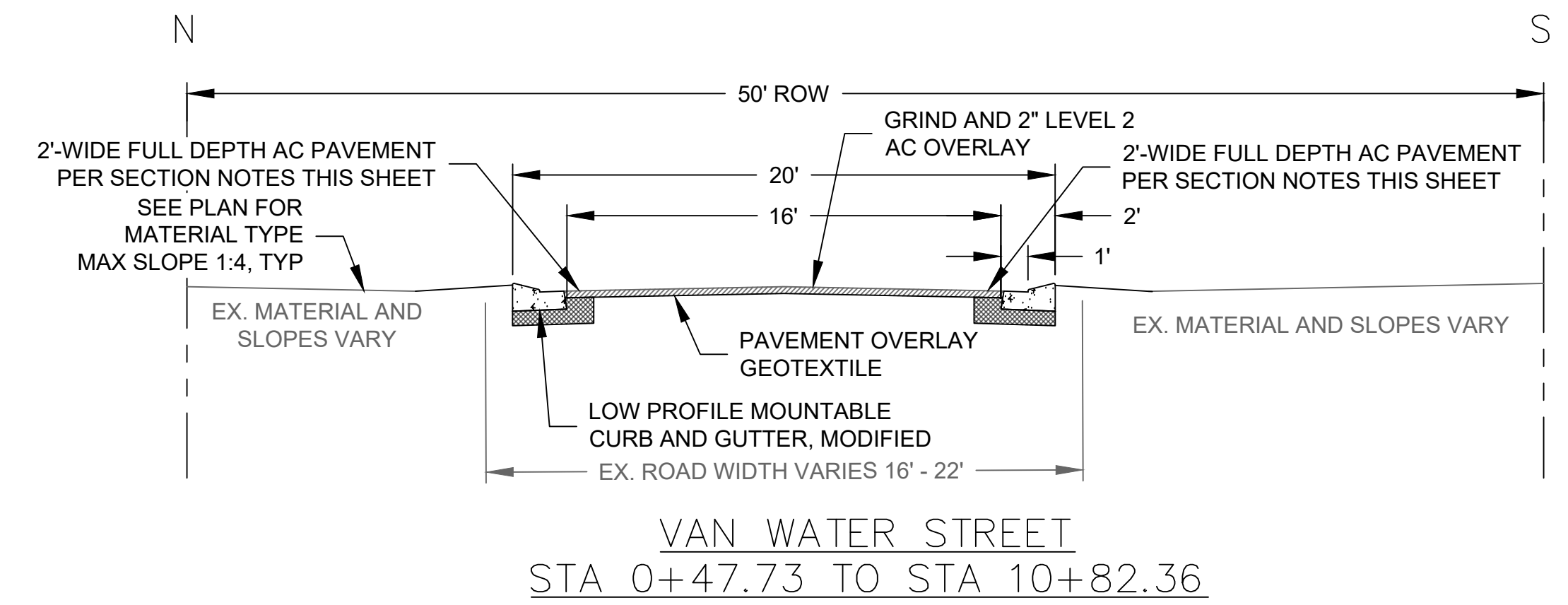
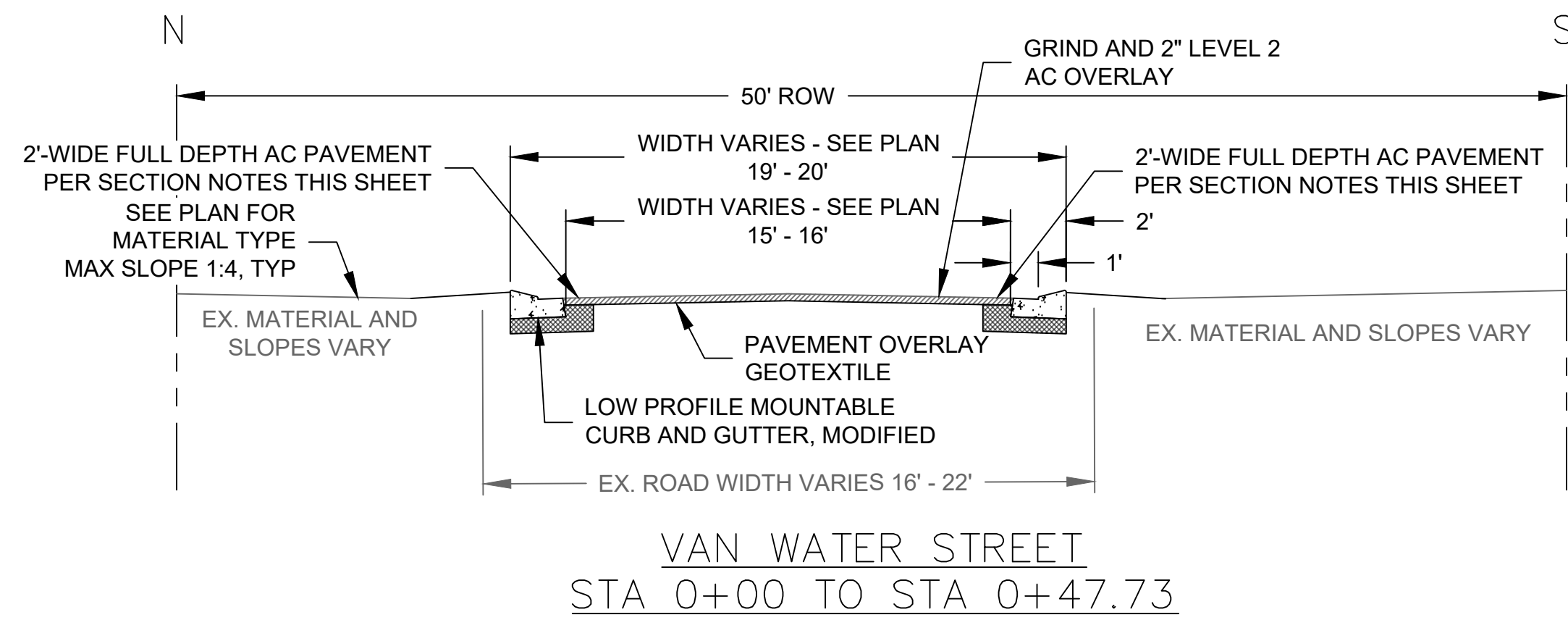
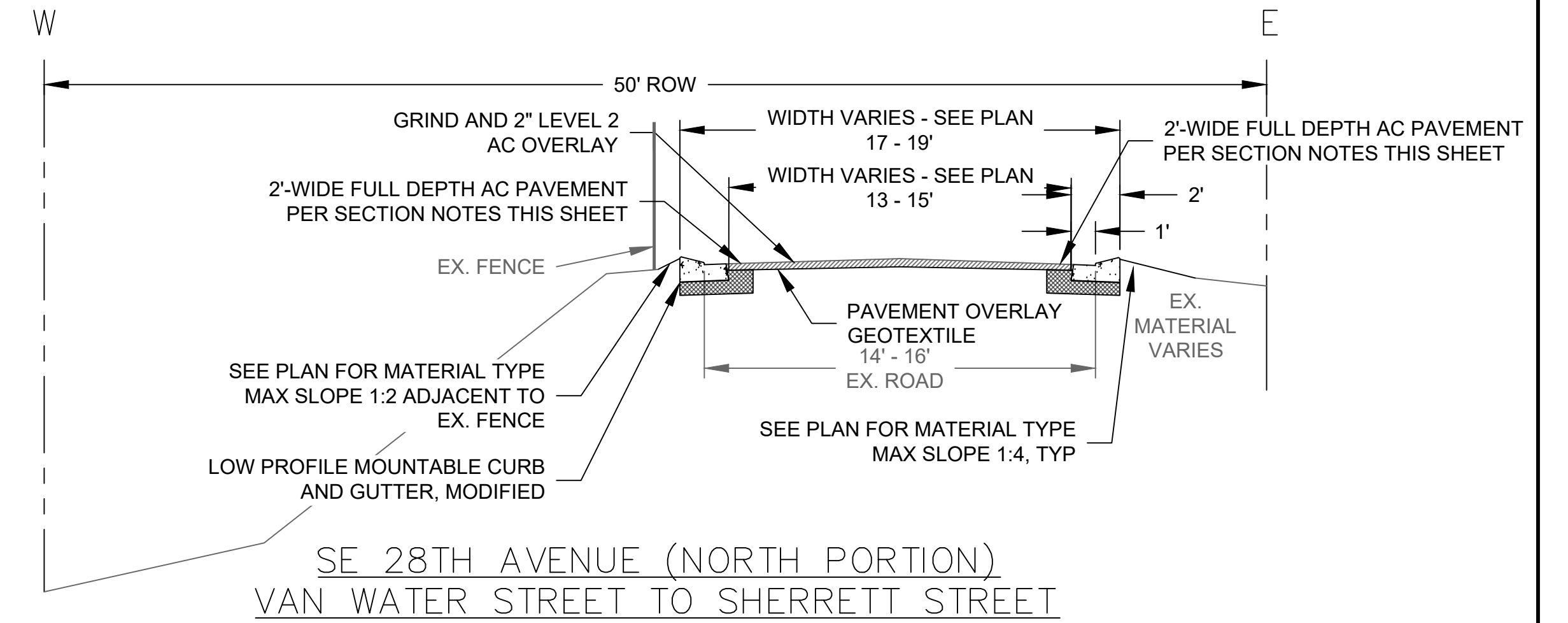
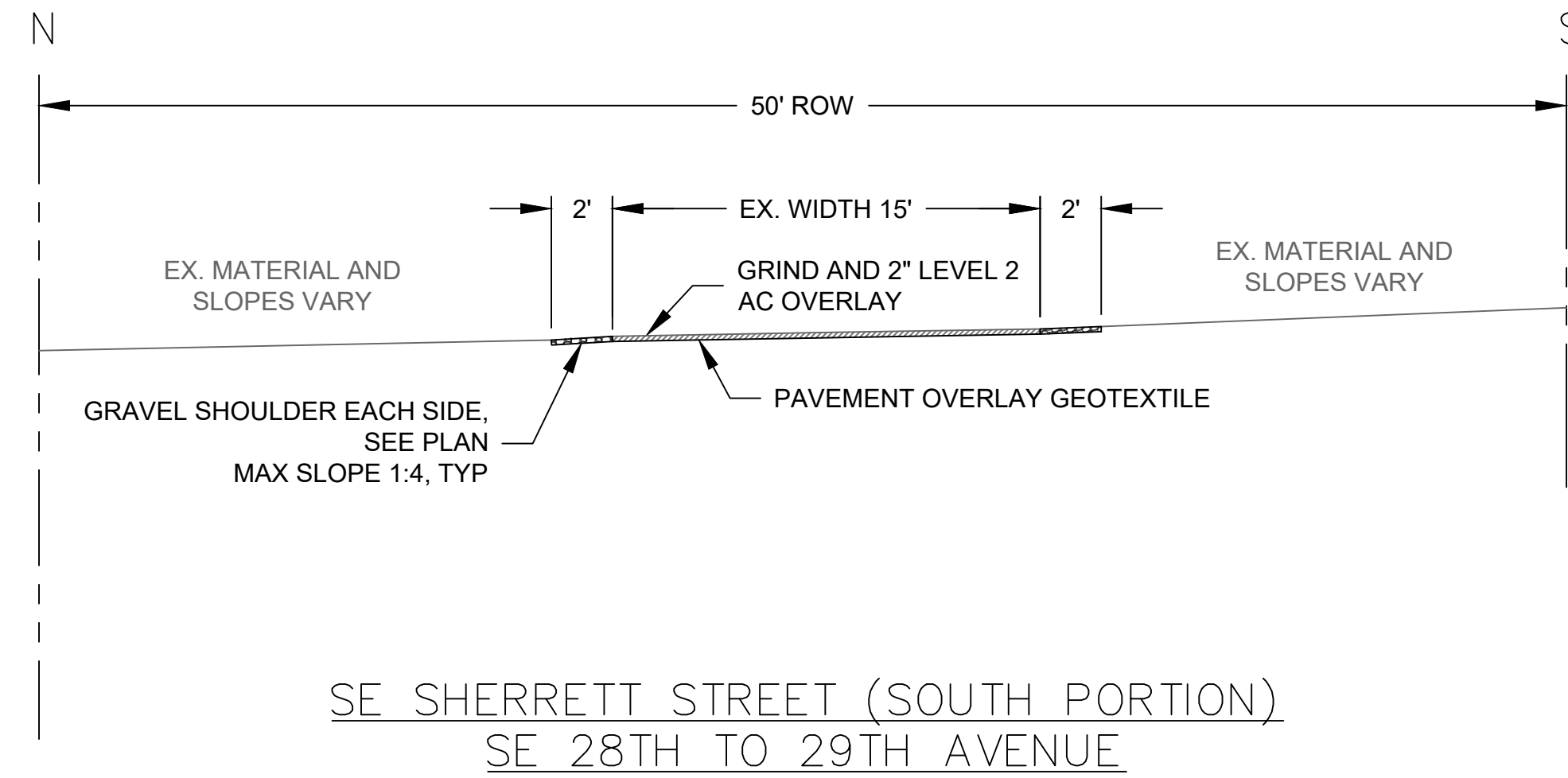
PHONE: 503-786-7600  
FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**

ROADWAY CONSTRUCTION  
30TH AVE & 31ST AVE

PROJECT NO.:	W61	SHEET NO.:	82 OF 93	DATE:	9/13/2024	SHEET:	C508
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- FULL DEPTH AC PAVEMENT SECTION:
- 4" LEVEL II AC PAVEMENT (WEARING COURSE)
  - 10" CRUSHED AGGREGATE ROCK



NO.	DATE	BY	REVISIONS

TAP	3/11/2022
DESIGNED	DATE
JRN	9/13/2024
DRAFTED	DATE
JAG	9/16/2024
CHECKED	DATE
APPROVED	DATE



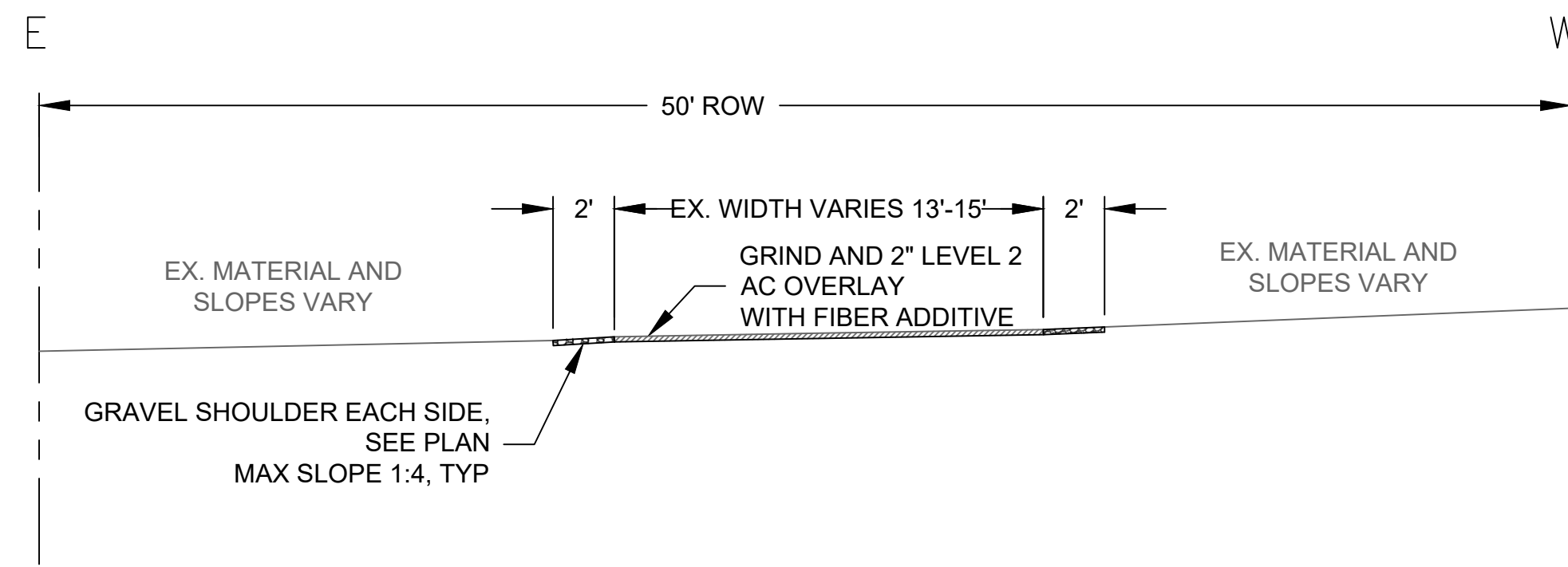
**CITY OF MILWAUKIE**  
10501 SE MAIN STREET  
MILWAUKIE, OR 97222  
PHONE: 503-786-7600  
FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**  
ROADWAY TYPICAL SECTIONS

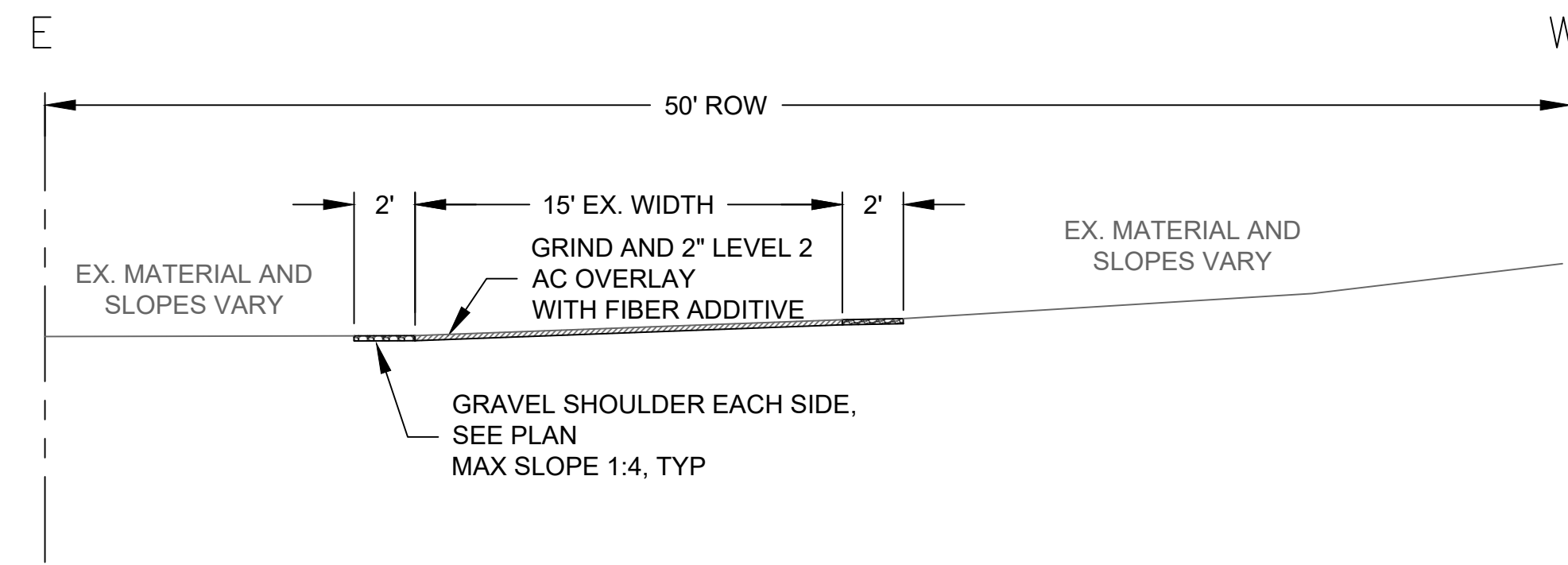
PROJECT NO.: W61    SHEET NO.: 83 OF 93    DATE: 9/13/2024    SHEET: C509

FULL DEPTH AC PAVEMENT SECTION:

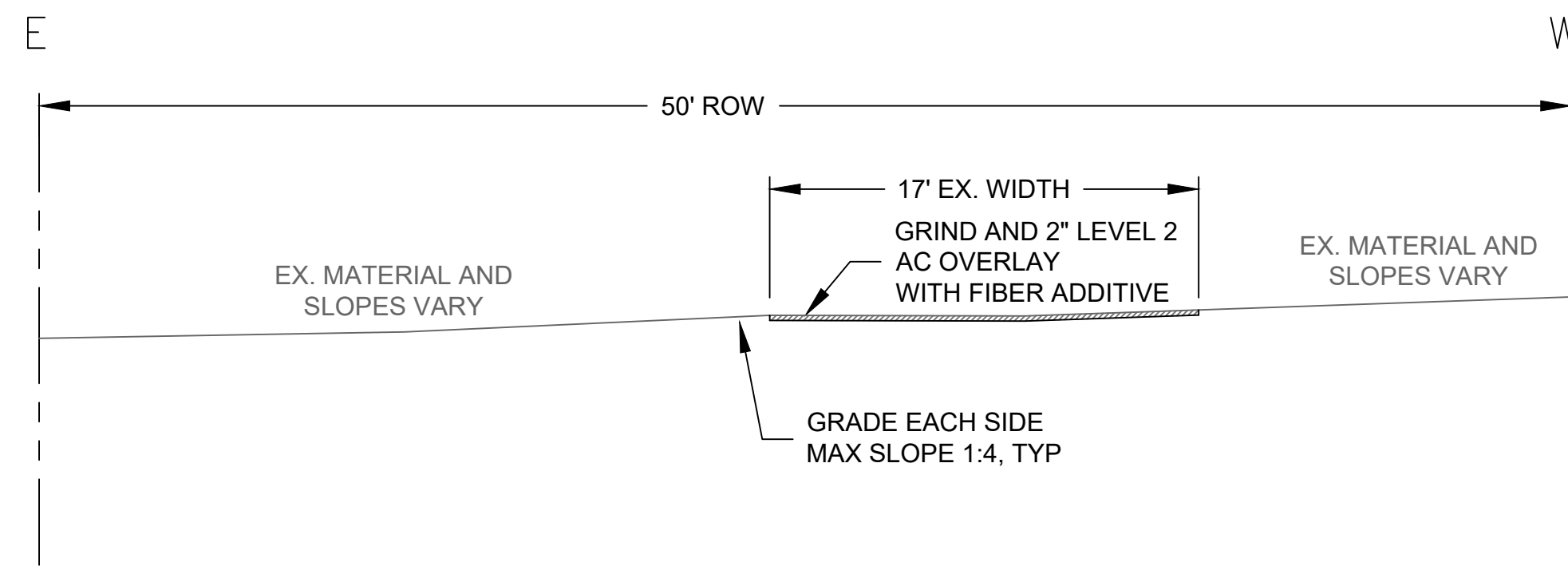
- 4" LEVEL II AC PAVEMENT (WEARING COURSE)
- 10" CRUSHED AGGREGATE ROCK



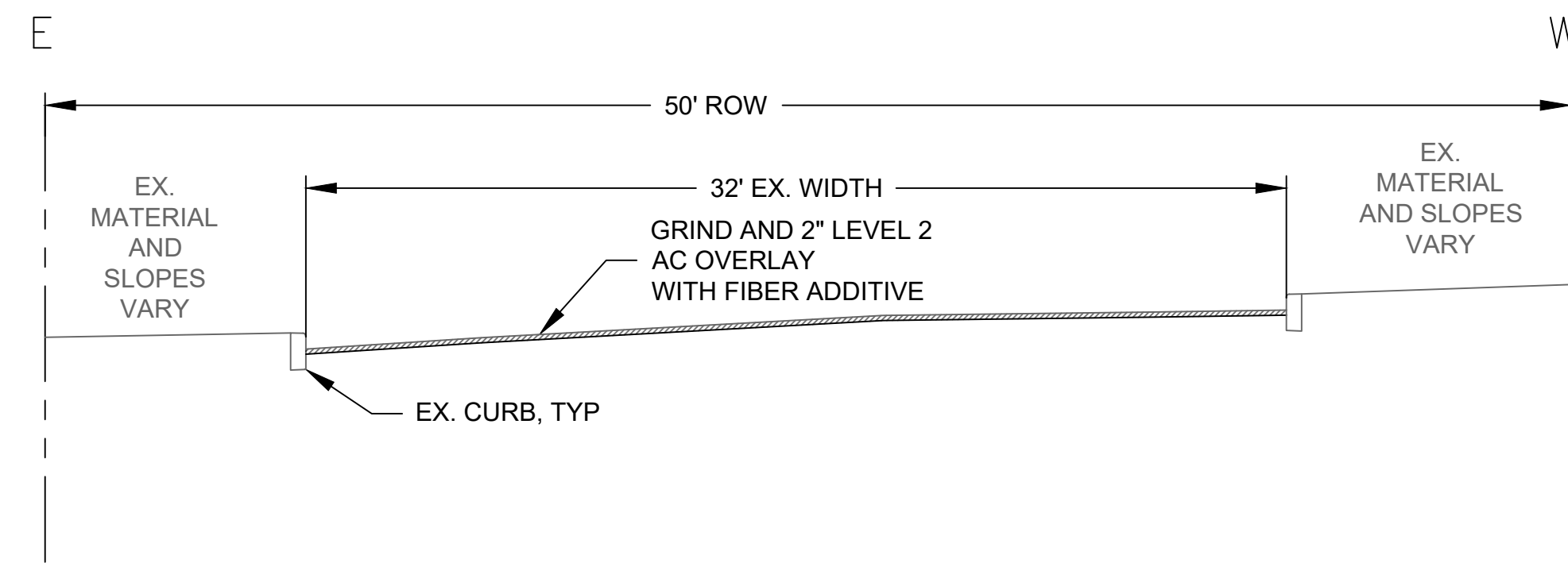
SE 28TH AVENUE  
VAN WATER STREET TO ROSWELL STREET



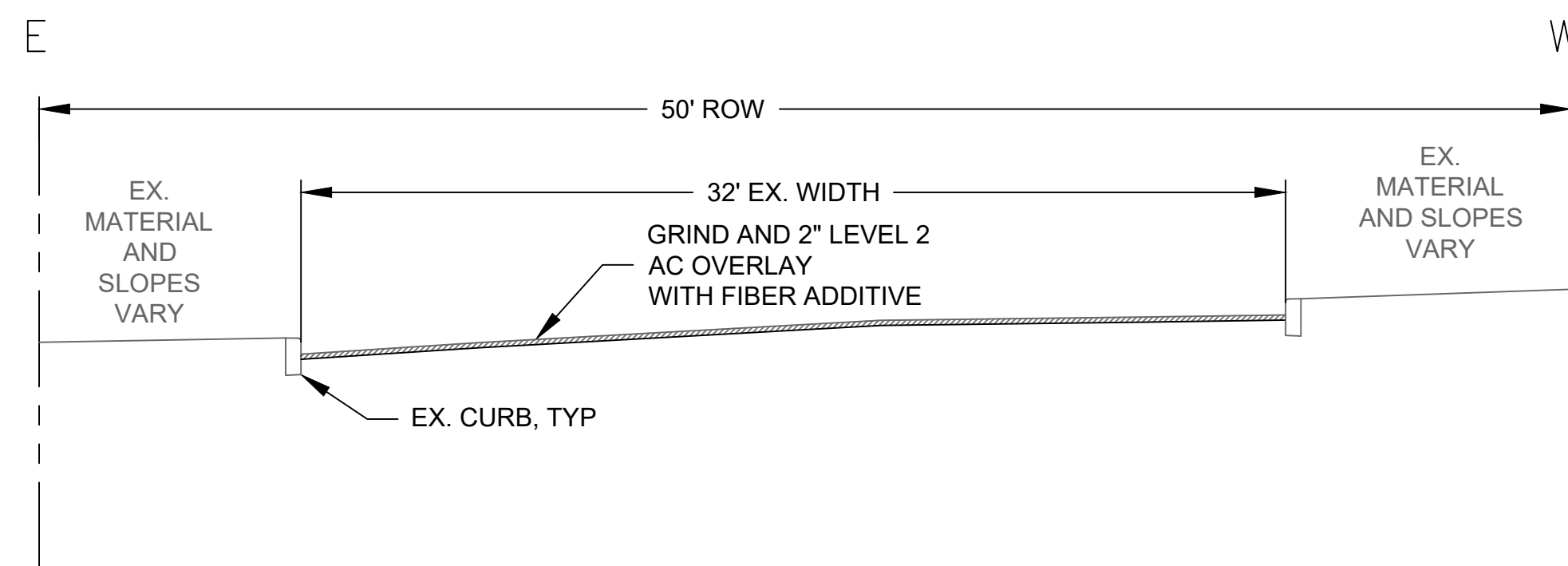
SE 28TH PLACE  
VAN WATER STREET TO ROSWELL STREET



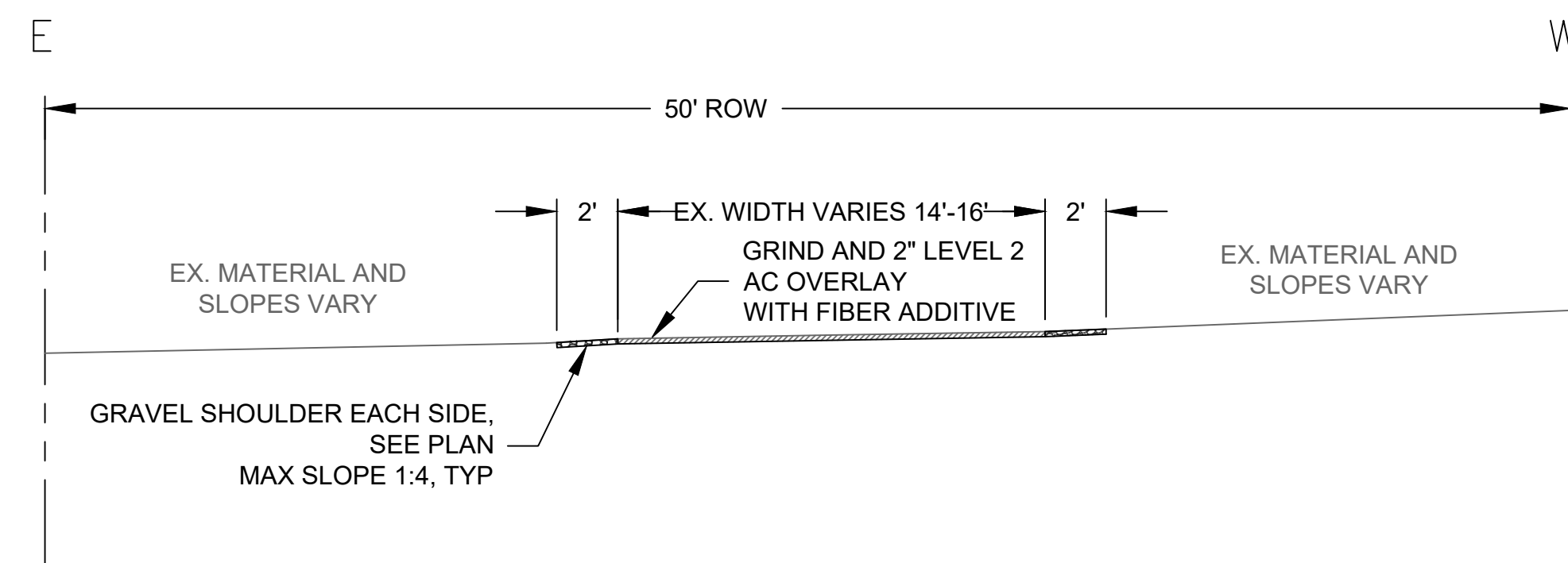
SE 29TH AVENUE  
VAN WATER STREET TO ROSWELL STREET



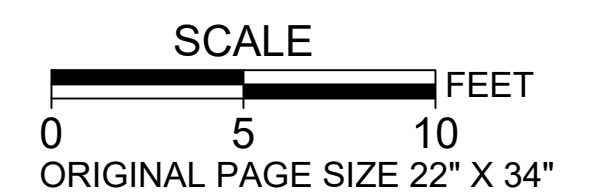
SE 30TH AVENUE  
VAN WATER STREET TO ROSWELL STREET



SE 31ST AVENUE  
VAN WATER STREET TO ROSWELL STREET



SE 30TH AVENUE  
SOUTH OF SHERRETT STREET



NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
JRN DRAFTED	9/13/2024	DATE
JAG CHECKED	9/16/2024	DATE
APPROVED		DATE



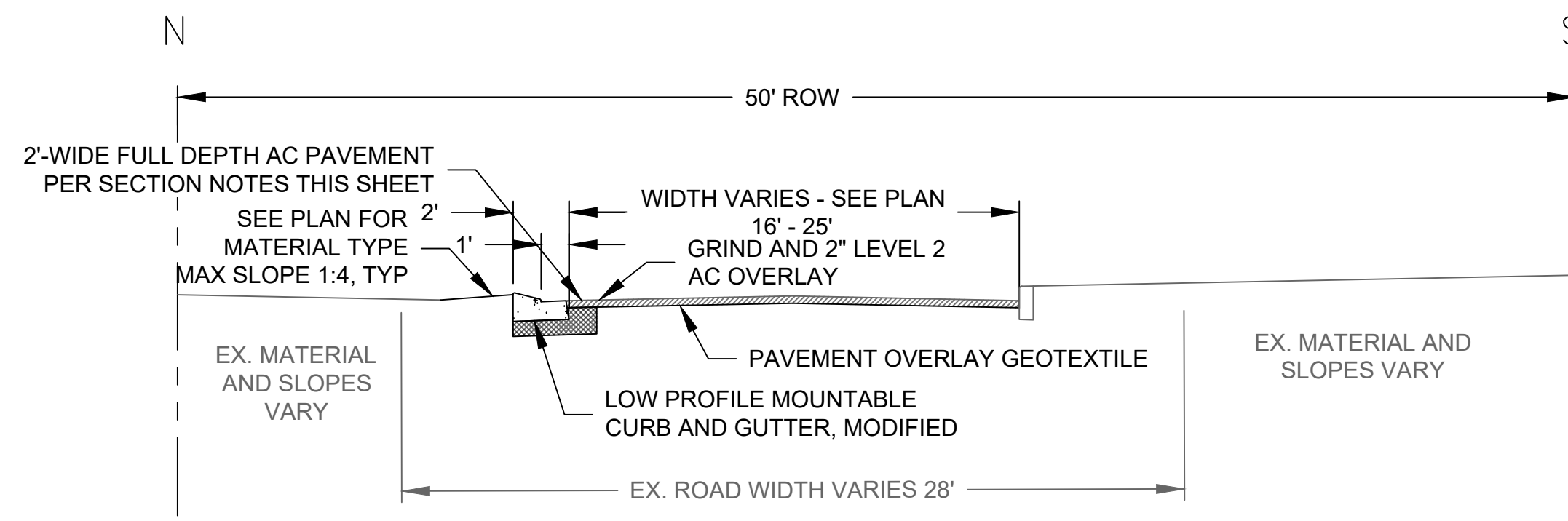
**CITY OF MILWAUKIE**  
10501 SE MAIN STREET  
MILWAUKIE, OR 97222  
PHONE: 503-786-7600  
FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**  
ROADWAY TYPICAL SECTIONS

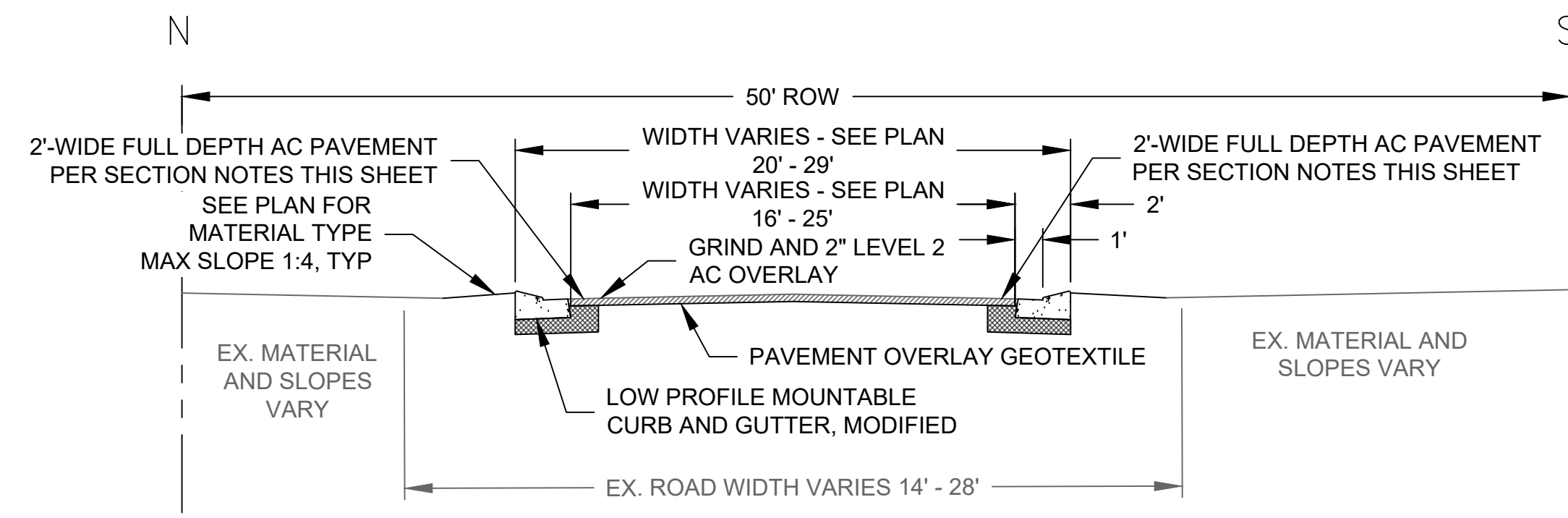
PROJECT NO.:	W61	SHEET NO.:	84 OF 93	DATE:	9/13/2024	SHEET:	C510
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FULL DEPTH AC PAVEMENT SECTION:

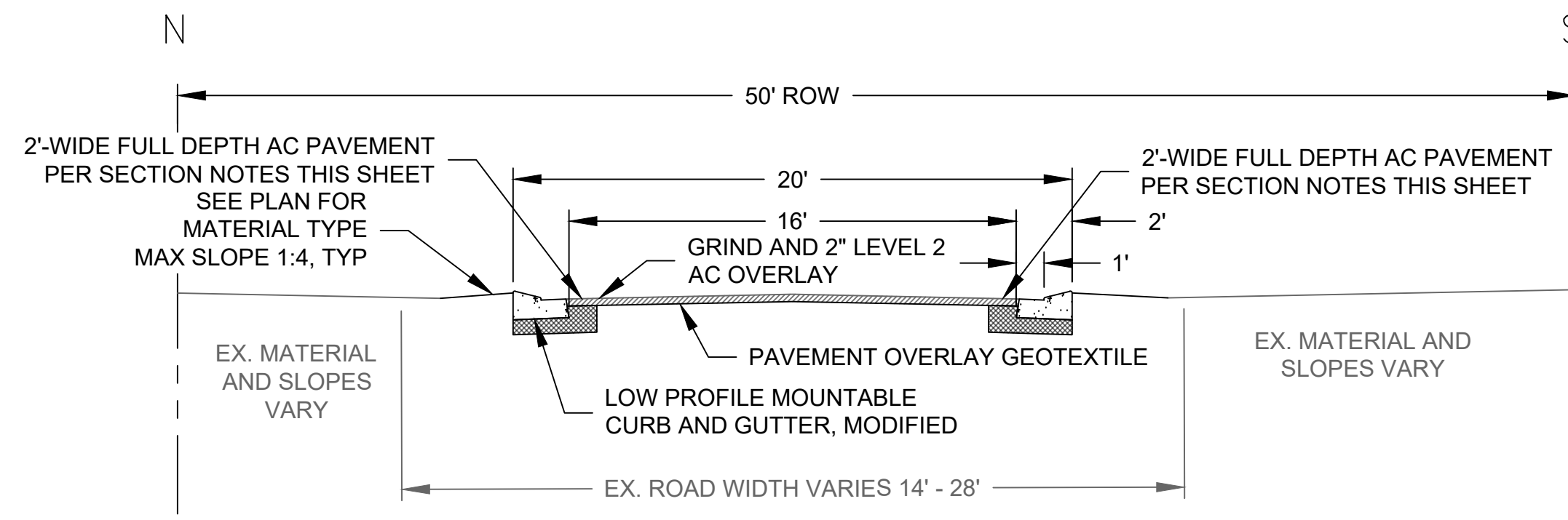
- 4" LEVEL II AC PAVEMENT (WEARING COURSE)
- 10" CRUSHED AGGREGATE ROCK



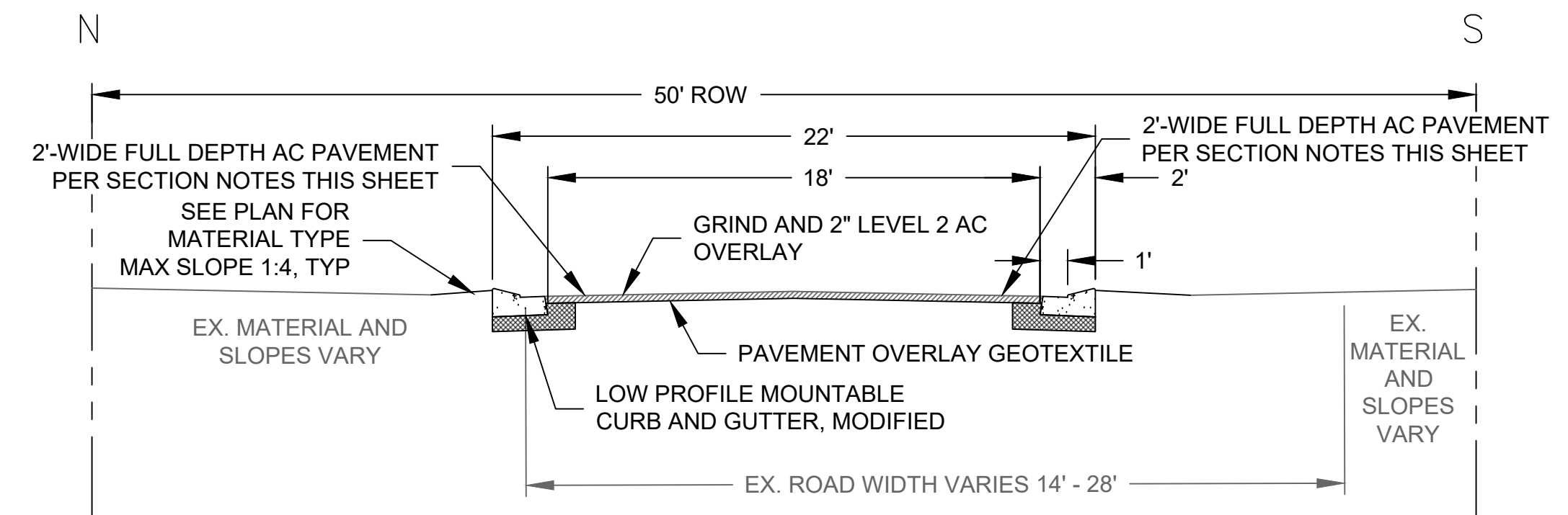
SE ROSWELL STREET  
STA 0+69.46 TO STA 0+85.20



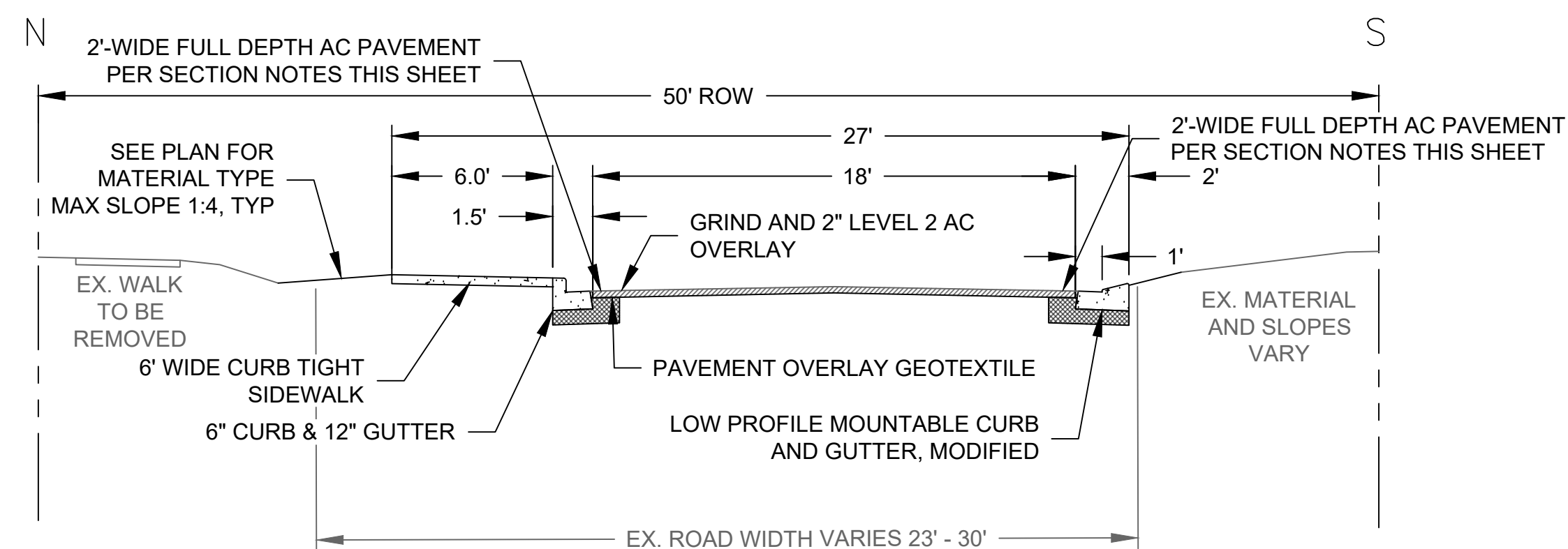
SE ROSWELL STREET  
STA 0+85.20 TO STA 1+10.92



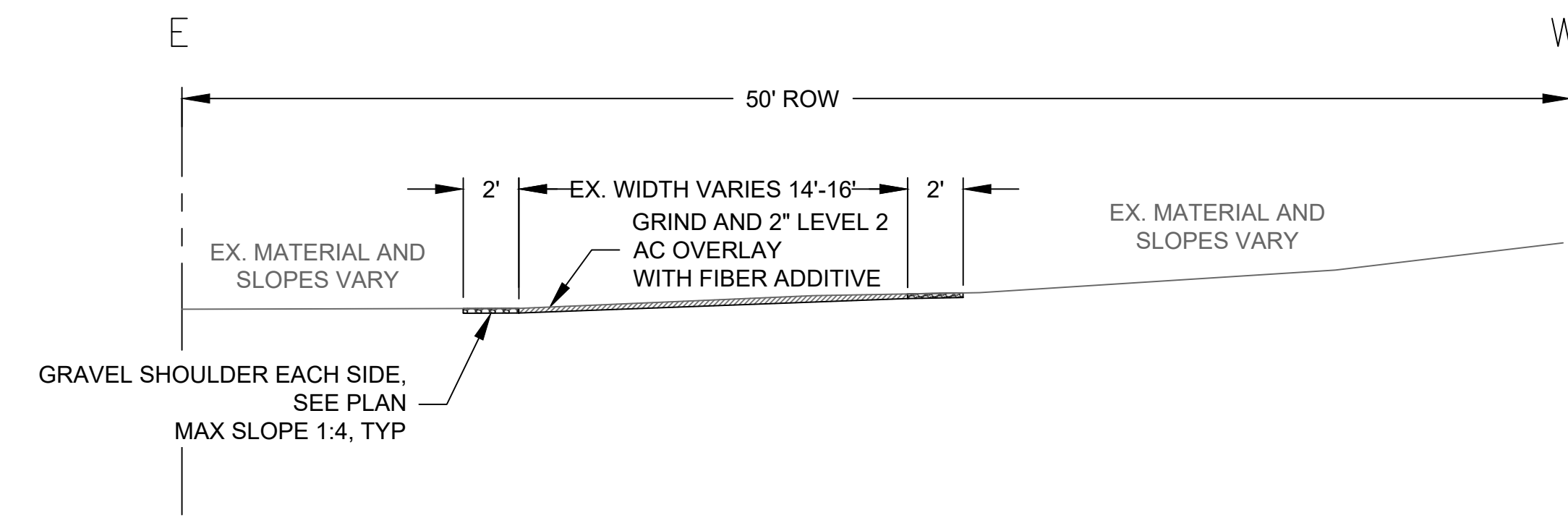
SE ROSWELL STREET  
STA 1+10.92 TO STA 7+20.43



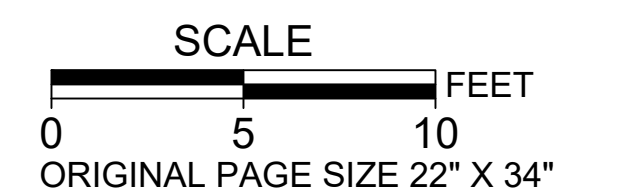
SE ROSWELL STREET  
STA 7+20.43 TO STA 12+01.63



SE ROSWELL STREET  
STA 12+01.63 TO 32ND AVENUE

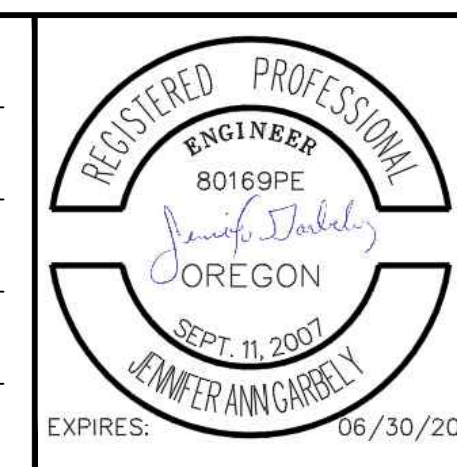


SE 31ST AVENUE  
SOUTH OF SHERRETT STREET



NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
JRN DRAFTED	9/13/2024	DATE
JAG CHECKED	9/16/2024	DATE
APPROVED		DATE



**CITY OF MILWAUKIE**

10501 SE MAIN STREET  
MILWAUKIE, OR 97222

PHONE: 503-786-7600  
FAX: 503-774-8236

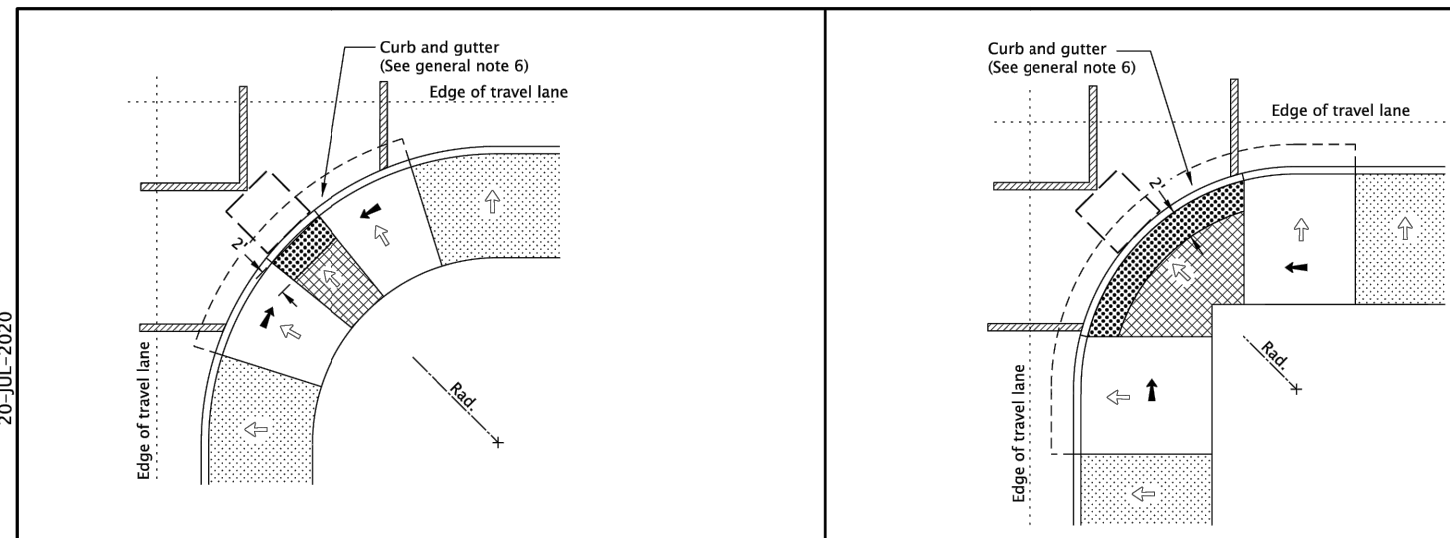
**ARDENWALD NORTH IMPROVEMENTS**

ROADWAY TYPICAL SECTIONS

PROJECT NO.: W61    SHEET NO.: 85 OF 93    DATE: 9/13/2024    SHEET: C511

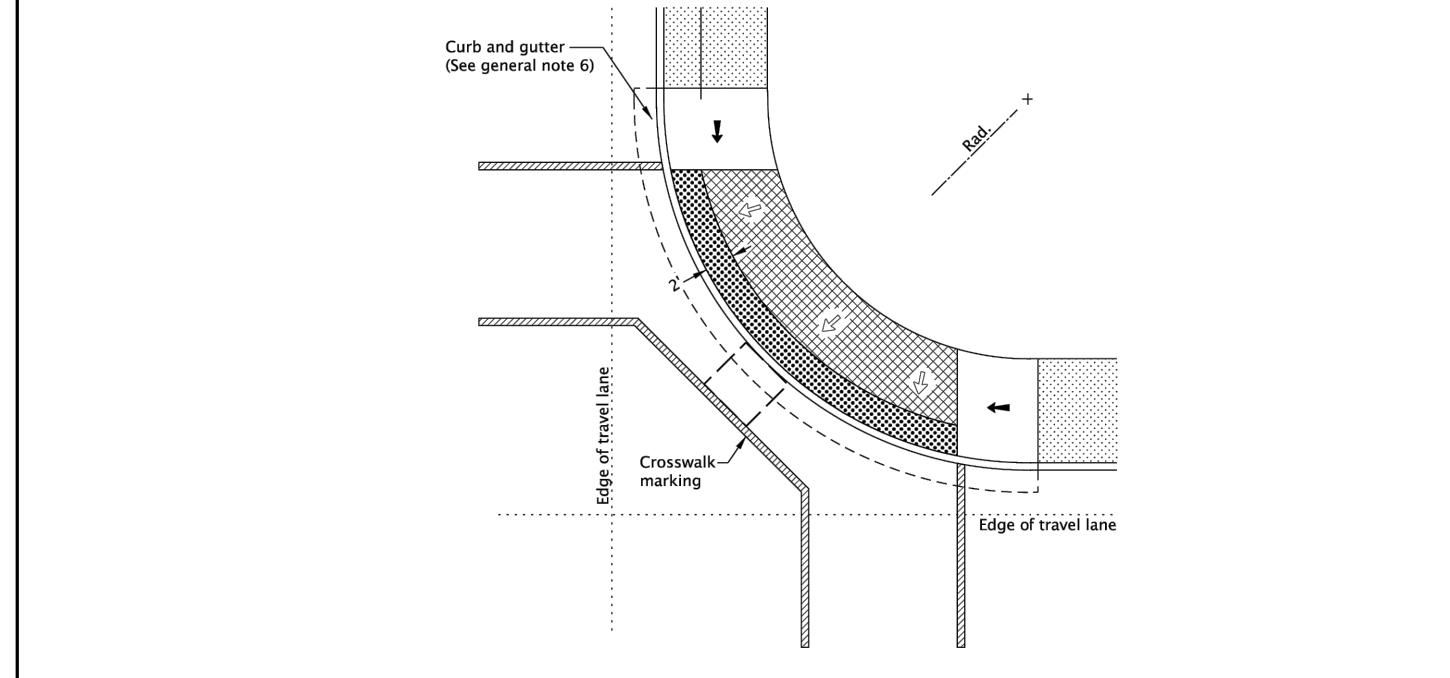






**DIAGONAL PARALLEL CURB RAMP OPTION "PL-3"**  
(Use only when site constraints prohibit installing two curb ramps)

**DEPRESSED CURB RAMP SMALL RADIUS OPTION "PL-4"**  
(Use only when site constraints prohibit installing two curb ramps)



**DEPRESSED CURB RAMP LARGE RADIUS OPTION "PL-5"**  
(Use only when site constraints prohibit installing two curb ramps)

**GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:**

- Curb ramp details are based on applicable ODOT Standards.
- See project plans for details not shown.
- See Std. Dwg. RD700 & RD701 for curbs.
- See Std. Dwg. RD720 & RD721 for sidewalks.
- See Std. Dwg. RD902 through RD908 for detectable warning surface installation details.
- See Std. Dwg. RD920 for parallel curb ramp details.
- Tooled dummy joints are required at all curb ramp slope break lines. (See Std. Dwg. RD722).
- Curb ramp slopes shown are relative to the true level horizon (zero bubble).
- Place an inlet at upstream side of curb ramp or perform other approved design mitigation. Check the gutter flow depth at curb ramp locations to assure that the design flood does not overtop the back of sidewalk.
- On or along state highways, curb and gutter is required at curb ramps.
- Grade breaks at the top and bottom of curb ramp runs shall be perpendicular to the direction of the ramp runs. Grade breaks shall not be permitted on the surface of ramp runs and turning spaces. Surface slopes that meet at grade breaks shall be flush.
- Only use curb ramp options allowed by jurisdiction. Single ramps require design exceptions on or along state highways.

**LEGEND:**

- Marked or intended crossing location
- Sidewalk
- Detectable warning surface
- Level area (Turning space/landing)  
Unobstructed 4.5' x 4.5'  
With obstruction 4.5' x 5.5' (Longer dimension in direction of pedestrian street crossing).  
For the purposes of this application, a max. 2.0% finished surface slope (for drainage) measured perpendicular in two directions is considered level.
- Cross slope 1.5% max.  
(Max. 2.0% finished surface slope)  
(Normal sidewalk cross slope)
- Running slope 7.5% max.  
(Max. 8.3% finished surface slope)
- 4'x4' clear space

All materials shall be in accordance with the current Oregon Standard Specifications.

**OREGON STANDARD DRAWINGS**

**PARALLEL CURB RAMP SINGLE RAMP**

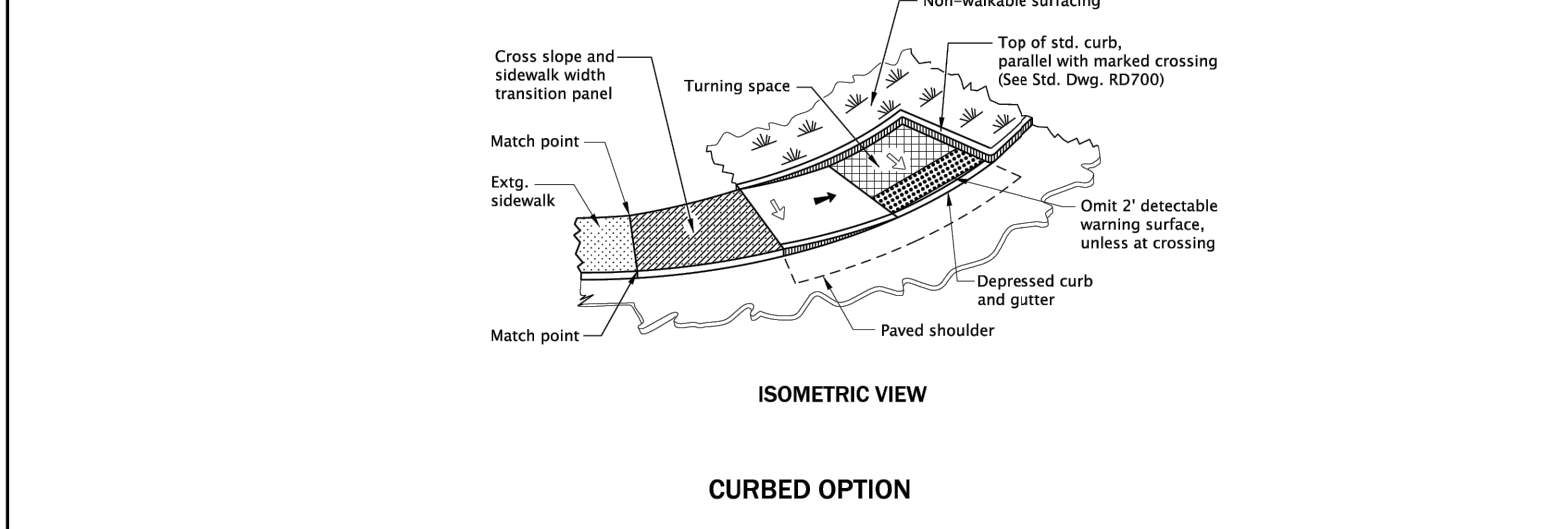
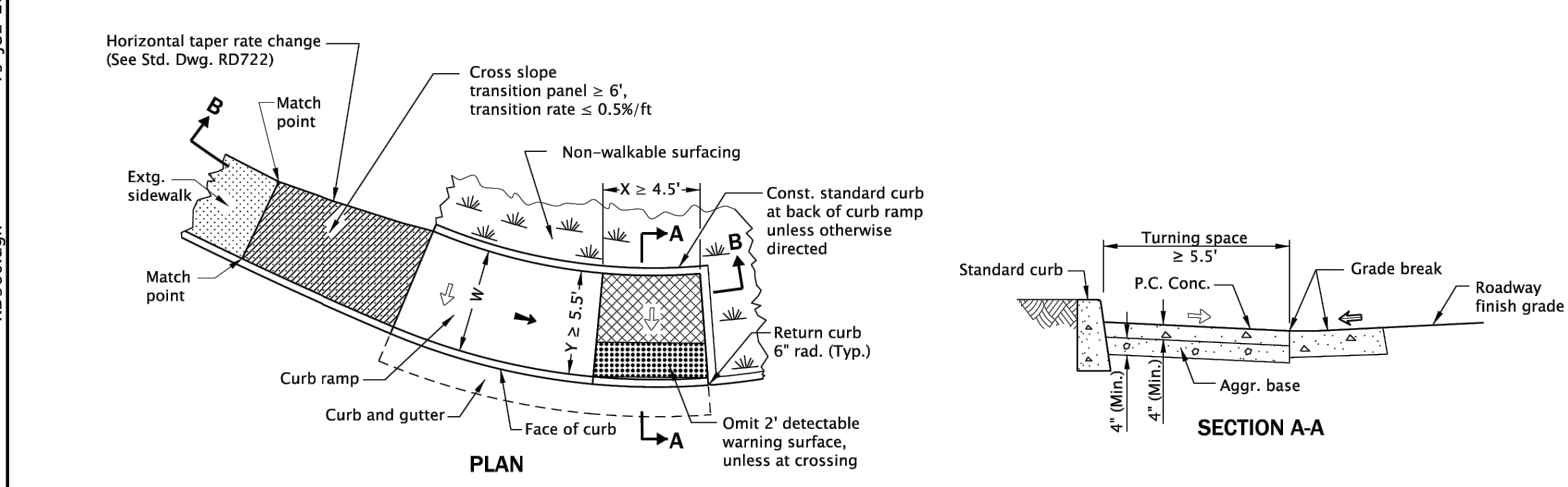
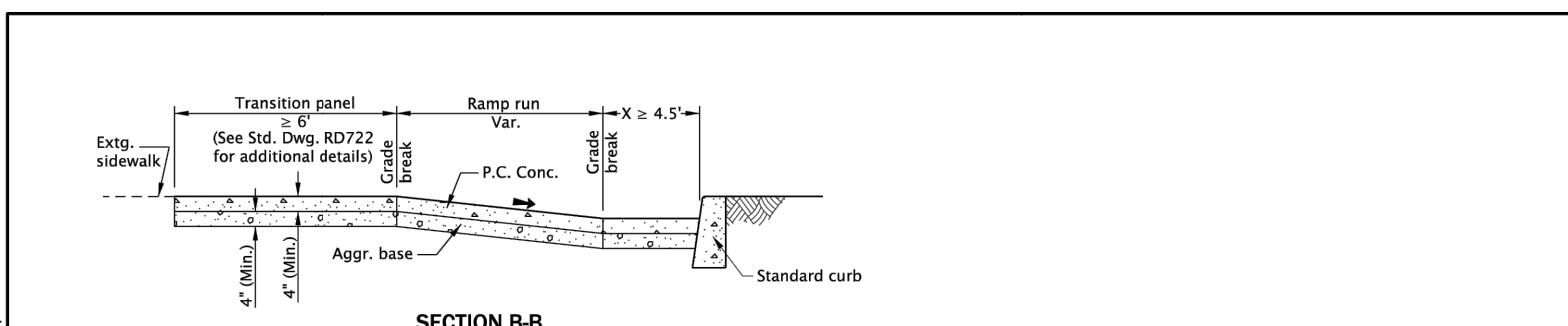
2024

DATE	REVISION DESCRIPTION
07-2020	NEW DRAWING CREATED

CALC. N/A N/A SR 25-JUL-2020 **RD922**

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.

Effective Date: December 1, 2023 – May 31, 2024



**SECTION B-B**

**PLAN**

**ISOMETRIC VIEW**

**CURBED OPTION**

**GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:**

- Curb ramp details are based on applicable ODOT applicable Standards.
- See project plans for details not shown.
- See Std. Dwg. RD700 & RD701 for curbs.
- See Std. Dwg. RD720 & RD721 for sidewalks.
- See Std. Dwg. RD722 for transition panel details.
- See Std. Dwg. RD902 through RD908 for detectable warning surface installation details.
- See Std. Dwg. RD920 for parallel curb ramp details.
- Site conditions normally require a project special design. See project plans for details not shown.
- Tooled dummy joints are required at all curb ramp grade break lines. (See Std. Dwg. RD722).
- Curb ramp slopes shown are relative to the true level horizon (zero bubble).
- Place detectable warning surface at the back of curb for a minimum depth of 2" in the direction of pedestrian travel full width of curb ramp opening that is adjacent to traffic.
- Place an inlet at upstream side of curb ramp or perform other approved design mitigation. Check the gutter flow depth at curb ramp locations to assure that the design flood does not overtop the back of sidewalk.
- When a shared use path terminates, the curb ramp shall be the full width of the path, the turning space Y-dimension should be minimum 8' wide to enable bicycles to ride from ramp to shoulder.
- Grade breaks at the top and bottom of curb ramp runs shall be perpendicular to the direction of the ramp runs. Grade breaks shall not be permitted on the surface of ramp runs and turning spaces. Surface slopes that meet at grade breaks shall be flush.
- On or along state highways, curb and gutter is required at curb ramps.
- Unique curb ramp option can be used for curved or tangent roadway sections. Super-elevated roadways require a site specific detail.

**LEGEND:**

- Sidewalk
- Transition panel
- Detectable warning surface
- Level area (Turning space/landing)  
Unobstructed 4.5' x 4.5'  
With obstruction 4.5' x 5.5' (Longer dimension in direction of pedestrian street crossing).  
For the purposes of this application, a max. 2.0% finished surface slope (for drainage) measured perpendicular in two directions is considered level.
- Cross slope 1.5% max.  
(Max. 2.0% finished surface slope)  
(Normal sidewalk cross slope)
- Running slope 7.5% max.  
(Max. 8.3% finished surface slope)
- Counter slope 4.0% max. ascending or descending.  
(Max. 5.0% finished surface slope)  
Slope as required for drainage
- New construction sidewalk width. See contract plans for dimension

All materials shall be in accordance with the current Oregon Standard Specifications.

**OREGON STANDARD DRAWINGS**

**UNIQUE CURB RAMP**

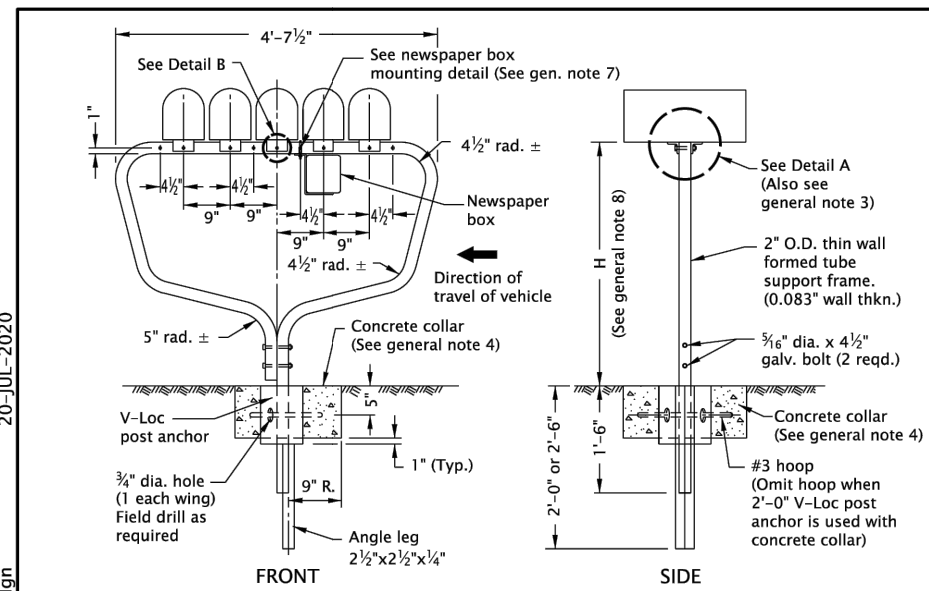
2024

DATE	REVISION DESCRIPTION
07-2020	NEW DRAWING CREATED

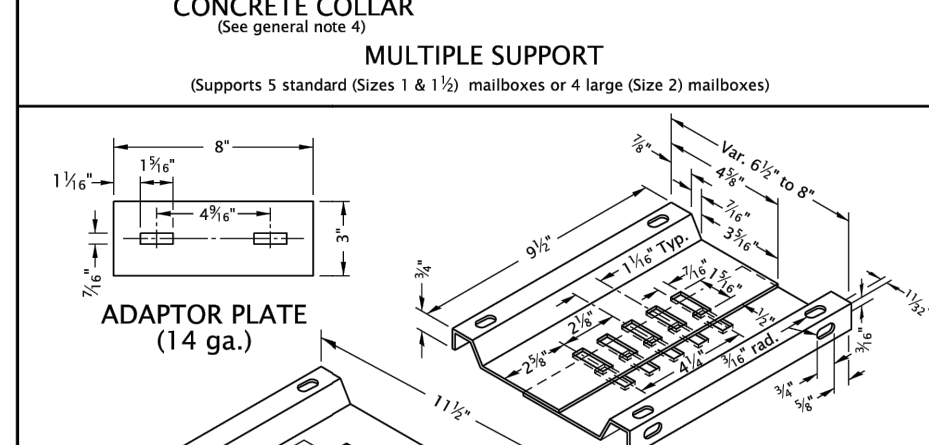
CALC. N/A N/A SR 19-JUL-2023 **RD960**

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.

Effective Date: December 1, 2023 – May 31, 2024



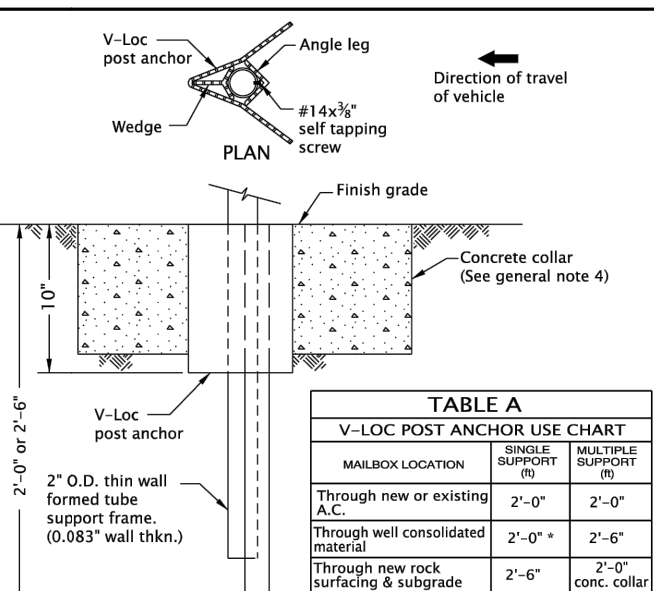
**CONCRETE COLLAR MULTIPLE SUPPORT**  
(Supports 5 standard (Sizes 1 & 1 1/2) mailboxes or 4 large (Size 2) mailboxes)



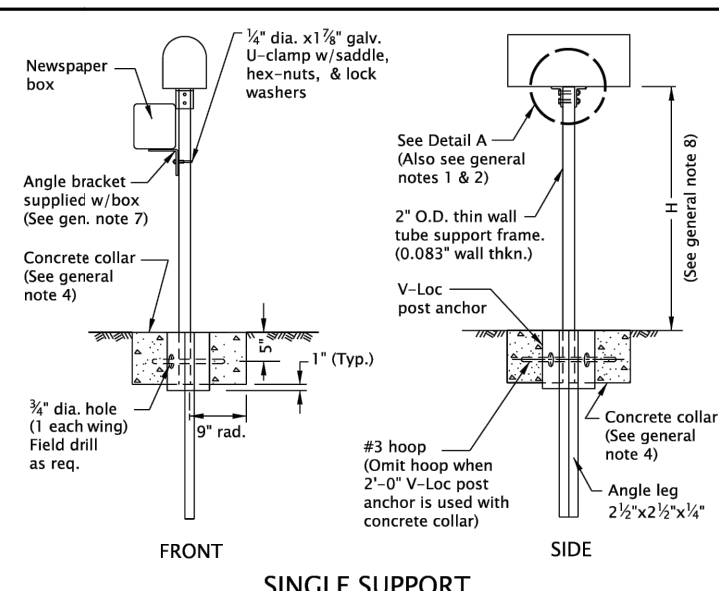
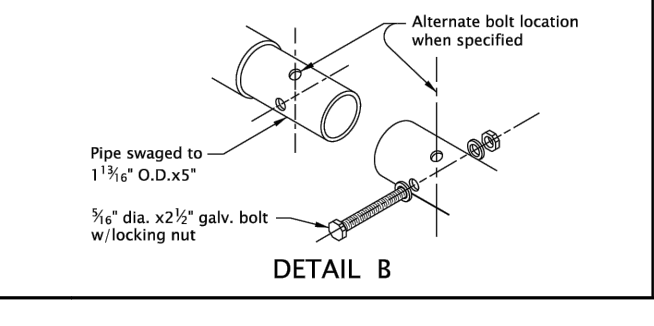
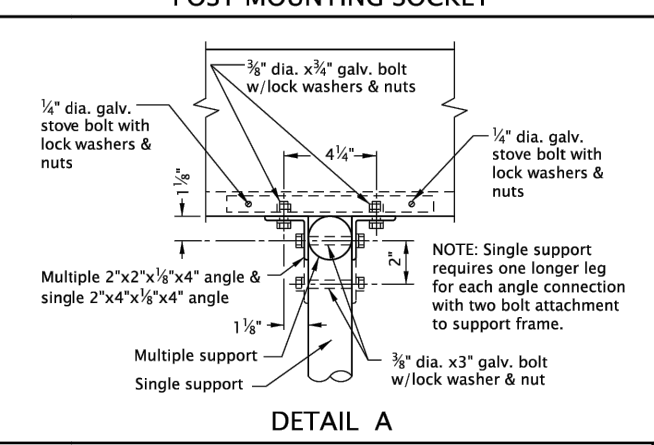
**ADAPTOR PLATE (14 ga.)**

**SIZE 1 & 1/2 MOUNTING BRACKET (16 ga.)**

**SIZE 2 MOUNTING BRACKET (16 ga.) WITH ADAPTOR PLATE (14 ga.)**



**POST MOUNTING SOCKET**



**SINGLE SUPPORT**

**GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:**

- Angle connections to be parallel to traffic flow for Size 2 mailbox mounted on single post.
- All holes in the tube support frame are to be predrilled by the manufacturer.
- Size 2 mailboxes mounted on a multiple support require 2 each 1/2" dia. x 1/2" galv. bolts with lock washers and nuts to attach the adaptor plate to the mounting bracket. The unit will then require 4 angle connections to attach to the formed tube support frame. See Detail A.
- Provide concrete collar when any of the following conditions exist:
  - when required in Table A
  - when required by project plans
  - as directed by the Engineer
 Concrete collar, when required, to be poured in place after V-loc post anchor has been installed, level and plumb. Do not excavate below bottom of V-loc post anchor. Care shall be taken that no concrete is placed within anchor.
- Other proprietary products available as listed in ODOT's OPL.
- For mailbox installation locations, see Std. Dwg. RD101 and project plans.
- For Newspaper Box Mounting Detail, see Std. Dwg. RD101.
- Mounting height (H) shall be 42" nominal, measured from vehicle driving surface.
- See project plans for detail not shown.

All materials shall be in accordance with the current Oregon Standard Specifications.

**OREGON STANDARD DRAWINGS**

**MAILBOX SUPPORT**

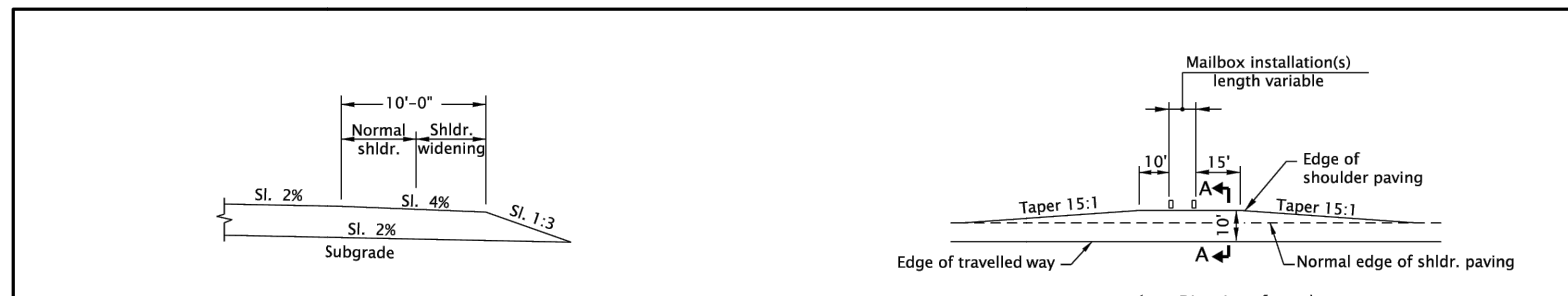
2024

DATE	REVISION DESCRIPTION
07-2020	NEW DRAWING CREATED

CALC. N/A N/A SR 25-JUL-2017 **RD100**

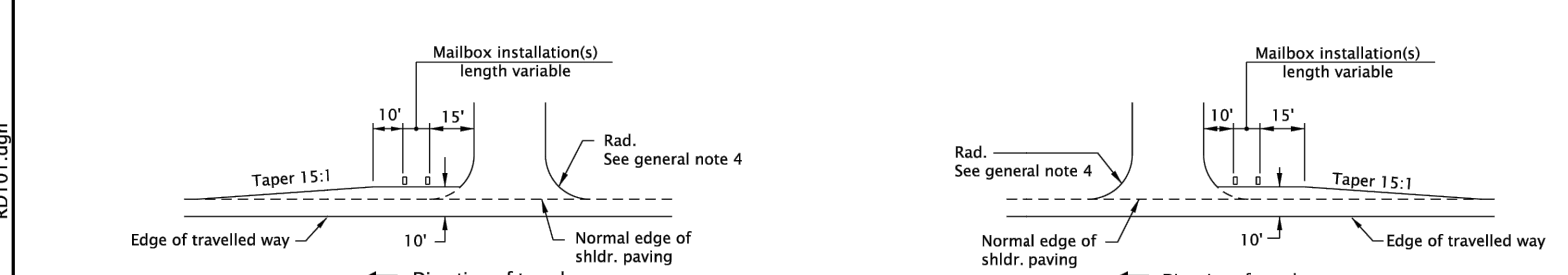
The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.

Effective Date: December 1, 2023 – May 31, 2024



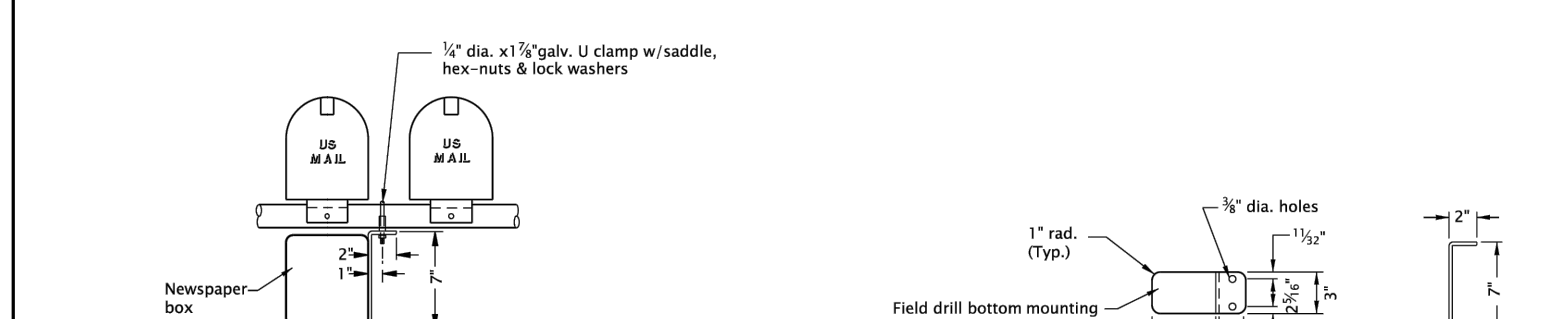
**SECTION A-A**

**MAILBOX SERVICE TURNOUT**



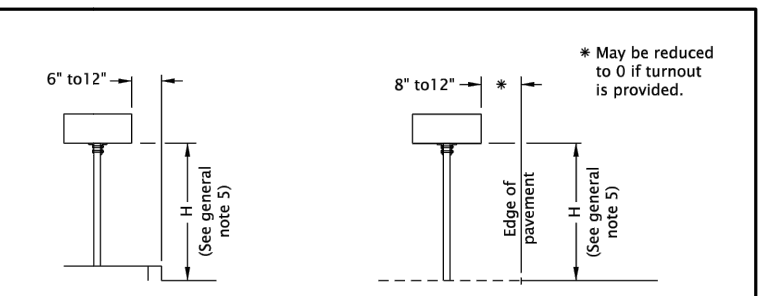
**MAILBOX SERVICE TURNOUT AFTER APPROACH**

**MAILBOX SERVICE TURNOUT BEFORE APPROACH**



**NEWSPAPER BOX MOUNTING DETAIL**

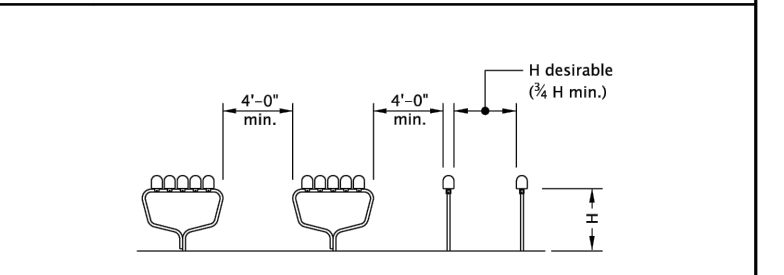
**NEWSPAPER BOX MOUNTING BRACKET DETAIL (14 ga.)**



**CURBED SECTION**

**NON-CURBED SECTION**

**PLACEMENT**



**SUPPORT SPACING**

**GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:**

- All holes in the tube support frame are to be predrilled by the manufacturer.
- Other proprietary products available as listed in ODOT's OPL.
- For mailbox support details, see Std. Dwg. RD100.
- For approach details, see Std. Dwg. RD715.
- Mounting height (H) shall be 42" nominal, measured from vehicle driving surface.
- See project plans for details not shown.

All materials shall be in accordance with the current Oregon Standard Specifications.

**OREGON STANDARD DRAWINGS**

**MAILBOX INSTALLATION**

2024

DATE	REVISION DESCRIPTION
07-2020	NEW DRAWING CREATED

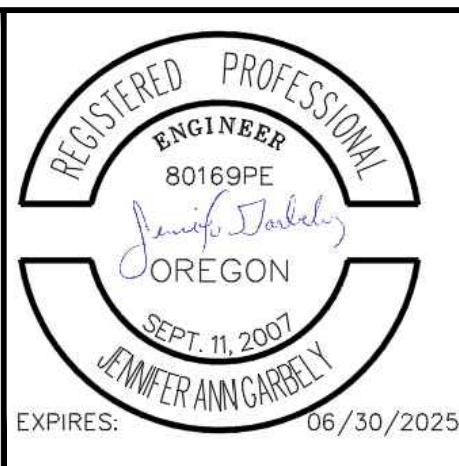
CALC. N/A N/A SR 25-JUL-2017 **RD101**

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.

Effective Date: December 1, 2023 – May 31, 2024

NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
JRN DRAFTED	9/13/2024	DATE
JAG CHECKED	9/16/2024	DATE
APPROVED		DATE



**CITY OF MILWAUKIE**

10501 SE MAIN STREET  
MILWAUKIE, OR 97222

PHONE: 503-786-7600  
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**ARDENWALD NORTH IMPROVEMENTS**

ROADWAY STANDARD DRAWINGS

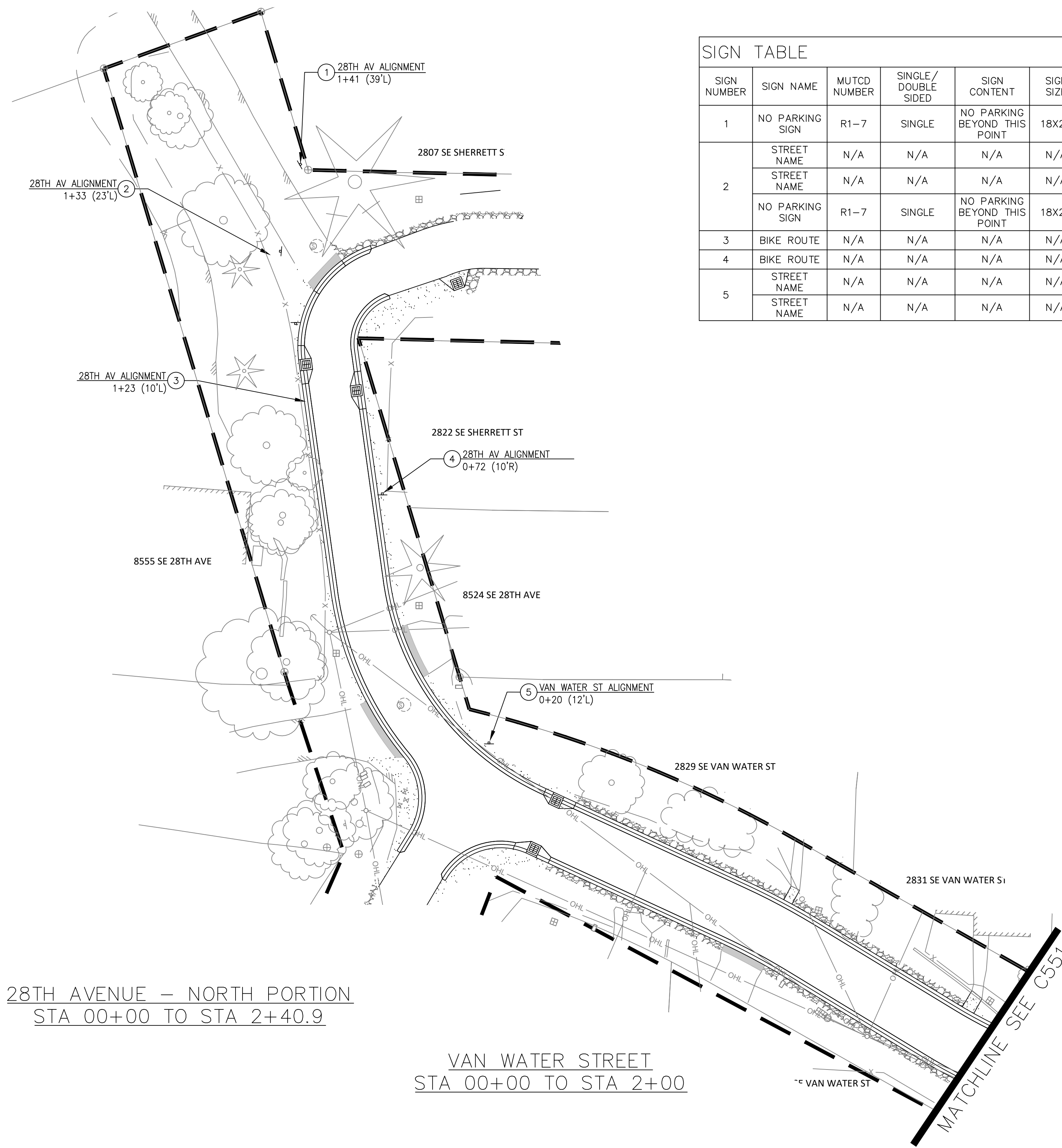
PROJECT NO.: W61

SHEET NO.: 88 OF 93

DATE: 9/13/2024

SHEET: C514



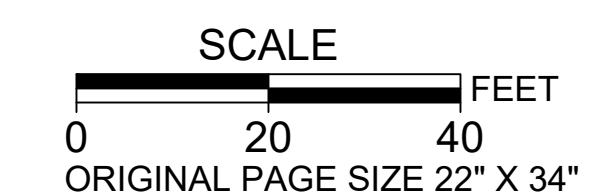
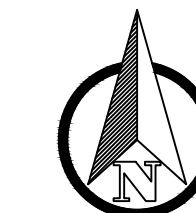


28TH AVENUE – NORTH PORTION  
 STA 00+00 TO STA 2+40.9

VAN WATER STREET  
 STA 00+00 TO STA 2+00

SIGN NUMBER	SIGN NAME	MUTCD NUMBER	SINGLE/DOUBLE SIDED	SIGN CONTENT	SIGN SIZE	POST TYPE	POST MOUNT TYPE	NEW/SALVAGED	NOTES
1	NO PARKING SIGN	R1-7	SINGLE	NO PARKING BEYOND THIS POINT	18X24	PSST	BURIED	NEW	
2	STREET NAME	N/A	N/A	N/A	N/A	PSST	BURIED	SALVAGED	
	STREET NAME	N/A	N/A	N/A	N/A			SALVAGED	
	NO PARKING SIGN	R1-7	SINGLE	NO PARKING BEYOND THIS POINT	18X24			NEW	
3	BIKE ROUTE	N/A	N/A	N/A	N/A	PSST	BURIED	SALVAGED	
4	BIKE ROUTE	N/A	N/A	N/A	N/A	PSST	BURIED	SALVAGED	
5	STREET NAME	N/A	N/A	N/A	N/A	PSST	BURIED	SALVAGED	
	STREET NAME	N/A	N/A	N/A	N/A			SALVAGED	

**SIGNAGE AND STRIPING NOTES:**  
 1. ALL PERMANENT LONGITUDINAL PAVEMENT MARKING TO BE DURABLE AND INSTALLED PER ODOT STANDARD SPECIFICATIONS SECTION 00865.  
 2. ALL PERMANENT STRIPING SHALL BE SURFACE INSTALLED PER THE APPLICABLE ODOT STANDARD DRAWINGS UNLESS OTHERWISE NOTED. SEE DETAILS TM500, TM501, TM502, TM503, AND TM504.  
 3. COORDINATE WITH CITY FOR LOCATION OF SIGNING AND STRIPING PRIOR TO INSTALLATION.  
 4. ALL SALVAGED SIGNS TO BE INSTALLED ON NEW POST AND MOUNT.  
 5. ALL SIGN POSTS AND MOUNTS TO BE INSTALLED PER STEEL STREET SIGN MOUNTING. DETAIL SHEET C091 UNLESS OTHERWISE NOTED IN SIGN TABLE.



NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
JRN DRAFTED	9/13/2024	DATE
JAG CHECKED	9/16/2024	DATE
APPROVED		DATE

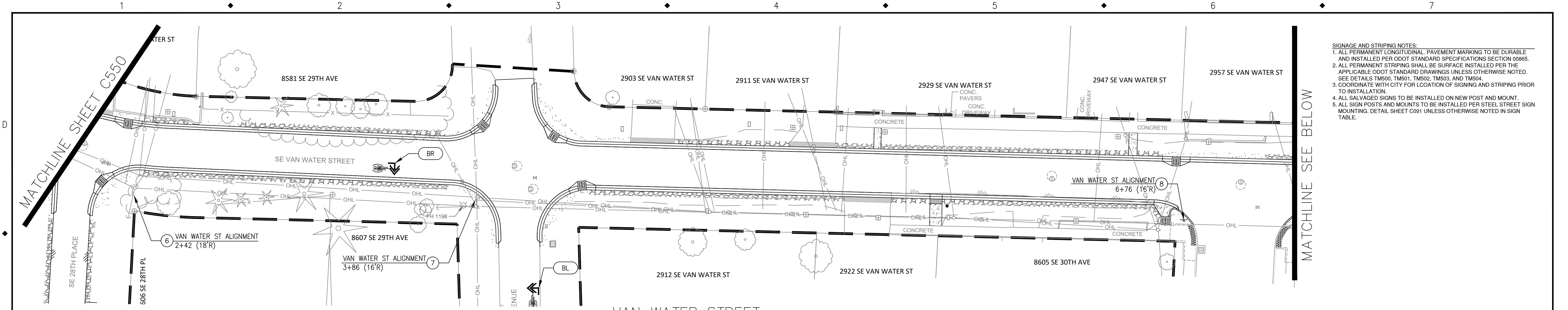


**CITY OF MILWAUKIE**  
 10501 SE MAIN STREET  
 MILWAUKIE, OR 97222  
 PHONE: 503-786-7600  
 FAX: 503-774-8236

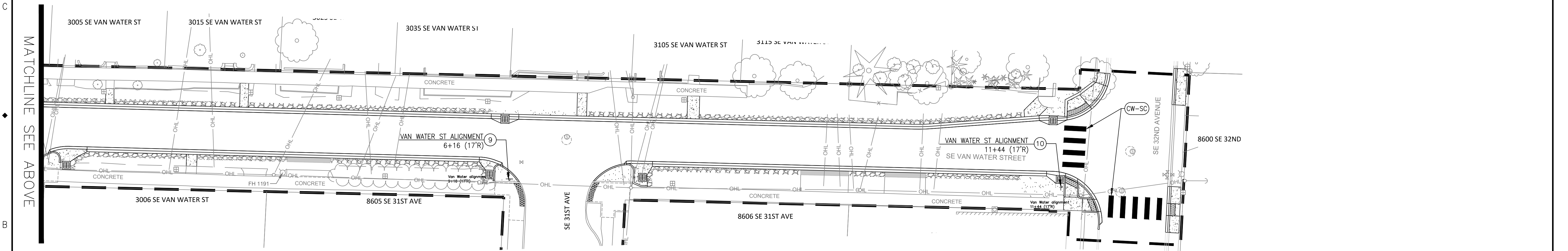
**ARDENWALD NORTH IMPROVEMENTS**

SIGN AND PAVEMENT MARKINGS  
 28TH AVE AND VAN WATER ST

PROJECT NO.:	W61	SHEET NO.:	89 OF 93	DATE:	9/13/2024	SHEET:	C550
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VAN WATER STREET  
STA 2+00 TO STA 7+00

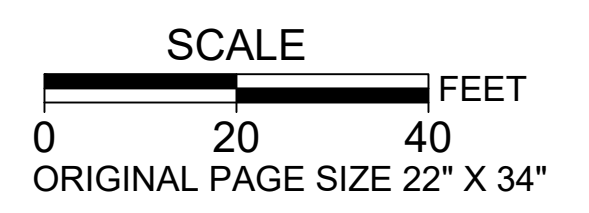
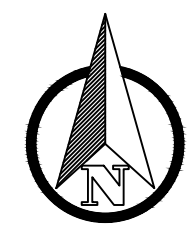


VAN WATER STREET  
STA 7+00 TO STA 11+65

- SIGNAGE AND STRIPING NOTES:**
1. ALL PERMANENT LONGITUDINAL PAVEMENT MARKING TO BE DURABLE AND INSTALLED PER ODOT STANDARD SPECIFICATIONS SECTION 00865.
  2. ALL PERMANENT STRIPING SHALL BE SURFACE INSTALLED PER THE APPLICABLE ODOT STANDARD DRAWINGS UNLESS OTHERWISE NOTED. SEE DETAILS TM500, TM501, TM502, TM503, AND TM504.
  3. COORDINATE WITH CITY FOR LOCATION OF SIGNING AND STRIPING PRIOR TO INSTALLATION.
  4. ALL SALVAGED SIGNS TO BE INSTALLED ON NEW POST AND MOUNT.
  5. ALL SIGN POSTS AND MOUNTS TO BE INSTALLED PER STEEL STREET SIGN MOUNTING. DETAIL SHEET C091 UNLESS OTHERWISE NOTED IN SIGN TABLE.

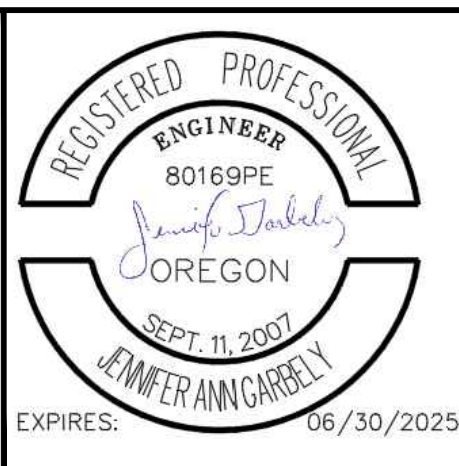
SIGN TABLE

SIGN NUMBER	SIGN NAME	MUTCD NUMBER	SINGLE/ DOUBLE SIDED	SIGN CONTENT	SIGN SIZE	POST TYPE	POST MOUNT TYPE	NEW/ SALVAGED	NOTES
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	STREET NAME	D3	DOUBLE	SE 28th Pl	24X8			NEW	OMIT OPTIONAL BORDER
7	STREET NAME	D3	DOUBLE	SE Van Water St	36X8	PSST	BURIED	NEW	OMIT OPTIONAL BORDER
	STREET NAME	D3	DOUBLE	SE 29th Av	24X8			NEW	OMIT OPTIONAL BORDER
	BIKE ROUTE	N/A	N/A	N/A	N/A			SALVAGED	
	ARROW	N/A	N/A	N/A	N/A			SALVAGED	
8	STREET NAME	D3	DOUBLE	SE Van Water St	36X8	PSST	BURIED	NEW	OMIT OPTIONAL BORDER
	STREET NAME	D3	DOUBLE	SE 30th Av	24X8			NEW	OMIT OPTIONAL BORDER
9	STREET NAME	D3	DOUBLE	SE Van Water St	36X8	PSST	BURIED	NEW	OMIT OPTIONAL BORDER
	STREET NAME	D3	DOUBLE	SE 31st Av	24X8			NEW	OMIT OPTIONAL BORDER
10	STREET NAME	N/A	N/A	N/A	N/A	PSST	BURIED	SALVAGED	
	STREET NAME	N/A	N/A	N/A	N/A			SALVAGED	
	STOP SIGN	R1-1	SINGLE	N/A	30X30			NEW	



NO.	DATE	BY	REVISIONS

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APPROVED		DATE

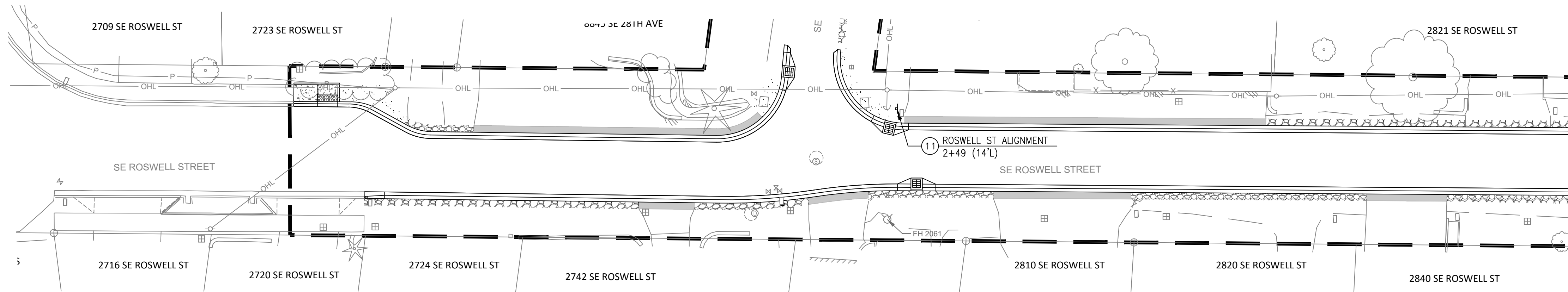


**CITY OF MILWAUKIE**  
10501 SE MAIN STREET  
MILWAUKIE, OR 97222  
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FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**

SIGN AND PAVEMENT MARKINGS  
VAN WATER ST

PROJECT NO.:	W61	SHEET NO.:	90 OF 93	DATE:	9/13/2024	SHEET:	C551
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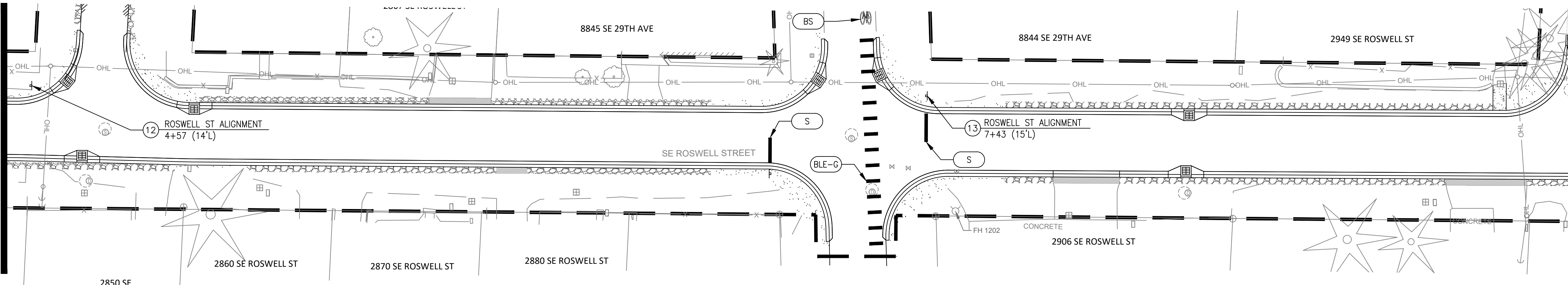


ROSWELL STREET  
STA 0+00 TO STA 4+50

MATCHLINE SEE BELOW

- SIGNAGE AND STRIPING NOTES:**
1. ALL PERMANENT LONGITUDINAL PAVEMENT MARKING TO BE DURABLE AND INSTALLED PER ODOT STANDARD SPECIFICATIONS SECTION 00865.
  2. ALL PERMANENT STRIPING SHALL BE SURFACE INSTALLED PER THE APPLICABLE ODOT STANDARD DRAWINGS UNLESS OTHERWISE NOTED. SEE DETAILS TM500, TM501, TM502, TM503, AND TM504.
  3. COORDINATE WITH CITY FOR LOCATION OF SIGNING AND STRIPING PRIOR TO INSTALLATION.
  4. ALL SALVAGED SIGNS TO BE INSTALLED ON NEW POST AND MOUNT.
  5. ALL SIGN POSTS AND MOUNTS TO BE INSTALLED PER STEEL STREET SIGN MOUNTING. DETAIL SHEET C091 UNLESS OTHERWISE NOTED IN SIGN TABLE.

MATCHLINE SEE ABOVE

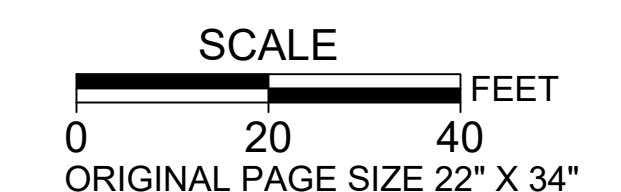
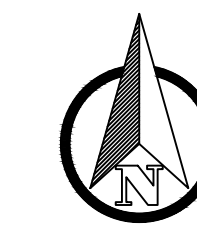


ROSWELL STREET  
STA 4+50 TO STA 9+50

MATCHLINE SEE C553

SIGN TABLE

SIGN NUMBER	SIGN NAME	MUTCD NUMBER	SINGLE/ DOUBLE SIDED	SIGN CONTENT	SIGN SIZE	POST TYPE	POST MOUNT TYPE	NEW/ SALVAGED	NOTES
11	NO OUTLET WITH ARROW	W14-2A	DOUBLE	N/A	30X8	PSST	BURIED	NEW	OMIT OPTIONAL BORDER
	STREET NAME	D3	DOUBLE	SE Roswell St	30X8			NEW	OMIT OPTIONAL BORDER
	STREET NAME	D3	DOUBLE	SE 28th Av	24X8			NEW	OMIT OPTIONAL BORDER
12	NO OUTLET	W14-2	SINGLE	N/A	30X30	PSST	BURIED	NEW	OMIT OPTIONAL BORDER
	STREET NAME	D3	DOUBLE	SE Roswell St	30X8			NEW	OMIT OPTIONAL BORDER
	STREET NAME	D3	DOUBLE	SE 28th Pl	24X8			NEW	OMIT OPTIONAL BORDER
13	STREET NAME	D3	DOUBLE	SE Roswell St	30X8	PSST	BURIED	NEW	OMIT OPTIONAL BORDER
	STREET NAME	D3	DOUBLE	SE 29th Av	24X8			NEW	OMIT OPTIONAL BORDER
	STOP SIGN	N/A	N/A	N/A	N/A			SALVAGED	



NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
JRN DRAFTED	9/13/2024	DATE
JAG CHECKED	9/16/2024	DATE
APPROVED		DATE

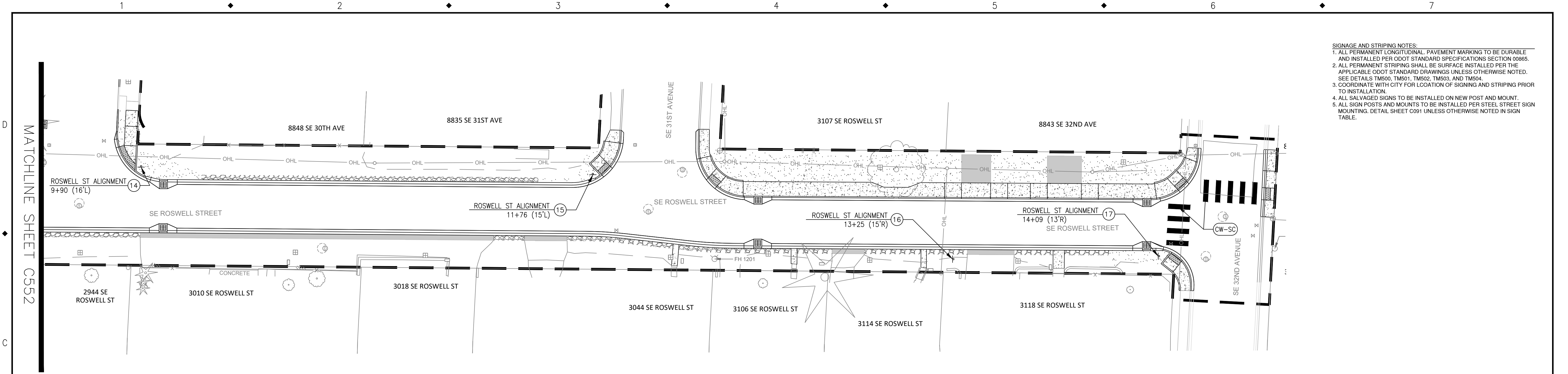


**CITY OF MILWAUKIE**  
10501 SE MAIN STREET  
MILWAUKIE, OR 97222  
PHONE: 503-786-7600  
FAX: 503-774-8236

**ARDENWALD NORTH IMPROVEMENTS**

SIGN AND PAVEMENT MARKINGS  
ROSWELL ST

PROJECT NO.:	W61	SHEET NO.:	91 OF 93	DATE:	9/13/2024	SHEET:	C552
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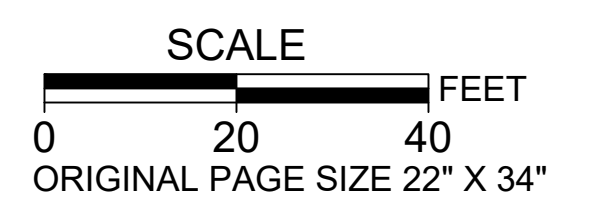
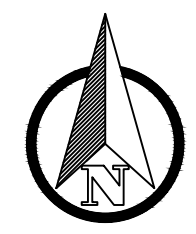


ROSWELL STREET  
STA 9+50 TO STA 14+50

- SIGNAGE AND STRIPING NOTES:**
1. ALL PERMANENT LONGITUDINAL PAVEMENT MARKING TO BE DURABLE AND INSTALLED PER ODOT STANDARD SPECIFICATIONS SECTION 00865.
  2. ALL PERMANENT STRIPING SHALL BE SURFACE INSTALLED PER THE APPLICABLE ODOT STANDARD DRAWINGS UNLESS OTHERWISE NOTED. SEE DETAILS TM500, TM501, TM502, TM503, AND TM504.
  3. COORDINATE WITH CITY FOR LOCATION OF SIGNING AND STRIPING PRIOR TO INSTALLATION.
  4. ALL SALVAGED SIGNS TO BE INSTALLED ON NEW POST AND MOUNT.
  5. ALL SIGN POSTS AND MOUNTS TO BE INSTALLED PER STEEL STREET SIGN MOUNTING. DETAIL SHEET C091 UNLESS OTHERWISE NOTED IN SIGN TABLE.

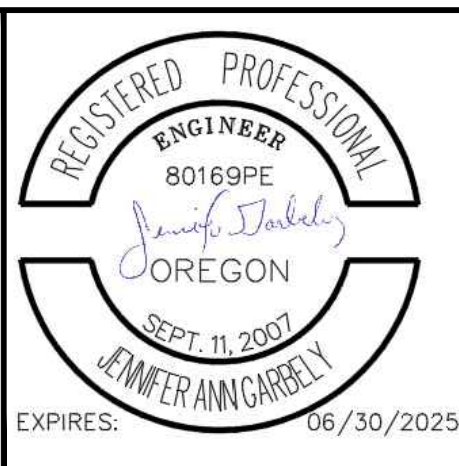
SIGN TABLE

SIGN NUMBER	SIGN NAME	MUTCD NUMBER	SINGLE/ DOUBLE SIDED	SIGN CONTENT	SIGN SIZE	POST TYPE	POST MOUNT TYPE	NEW/ SALVAGED	NOTES
14	STREET NAME	D3	DOUBLE	SE Roswell St	30X8	PSST	BURIED	NEW	OMIT OPTIONAL BORDER
	STREET NAME	D3	DOUBLE	SE 30th Av	24X8			NEW	OMIT OPTIONAL BORDER
15	STREET NAME	D3	DOUBLE	SE Roswell St	30X8	PSST	BURIED	NEW	OMIT OPTIONAL BORDER
	STREET NAME	D3	DOUBLE	SE 31st Av	24X8			NEW	OMIT OPTIONAL BORDER
16	SCHOOL SIGNS	N/A	N/A	N/A	N/A	PSST	BURIED	SALVAGED	
	STREET NAME	D3	DOUBLE	SE Roswell St	30X8			NEW	OMIT OPTIONAL BORDER
17	STREET NAME	D3	DOUBLE	SE 32nd Av	24X8	PSST	BURIED	NEW	OMIT OPTIONAL BORDER
	STOP SIGN	N/A	N/A	N/A	N/A			SALVAGED	



NO.	DATE	BY	REVISIONS

TAP DESIGNED	3/11/2022	DATE
JRN DRAFTED	9/13/2024	DATE
JAG CHECKED	9/16/2024	DATE
APPROVED		DATE



CITY OF MILWAUKIE

10501 SE MAIN STREET  
MILWAUKIE, OR 97222

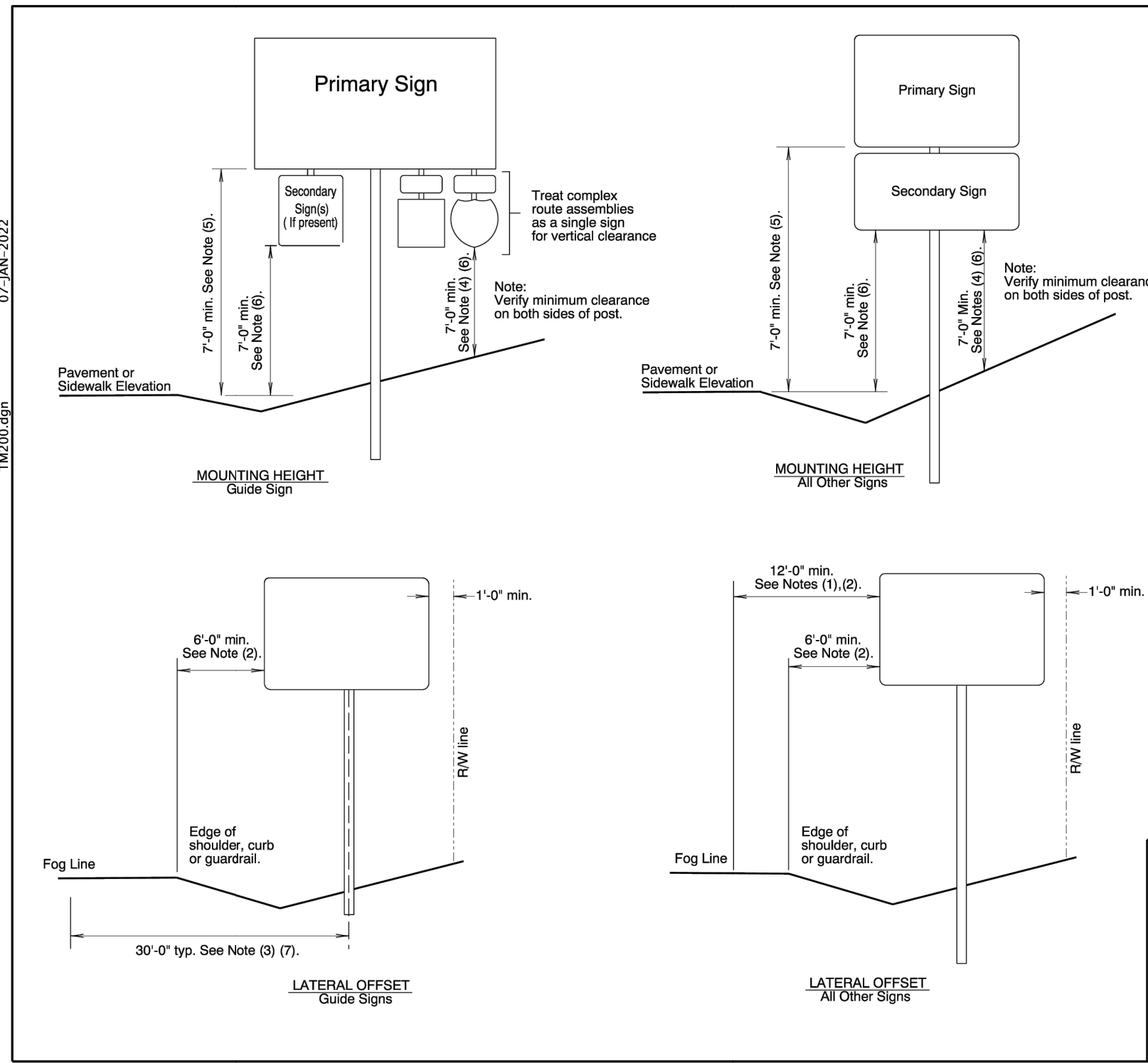
PHONE: 503-786-7600  
FAX: 503-774-8236

ARDENWALD NORTH IMPROVEMENTS

SIGN AND PAVEMENT MARKINGS

ROSWELL ST

PROJECT NO.:	W61	SHEET NO.:	92 OF 93	DATE:	9/13/2024	SHEET:	C553
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**General Installation Notes:**

- Signing details shown on this sheet are intended to convey "typical" conditions only. Individual locations may require installation different from those shown. For guidance regarding unique installations or exceptions call the Project Sign Designer or Region Traffic Section.
- Locate breakaway supports away from ditches to avoid problems with erosion, corrosion, debris, maintenance and breakaway performance. See Dwg. No. TM635 for more information.
- For wood post support details see Dwg. No. TM670.
- For perforated steelsquare tube support details see Dwg. No. TM681.
- For triangular base breakaway support details see Dwg. No. TM602.
- For multi-post breakaway support details see Dwg. No. TM650.
- Mounting heights should not be more than 3 inches more than the minimum heights shown, where practical.
- Vertical spacing between all signs.

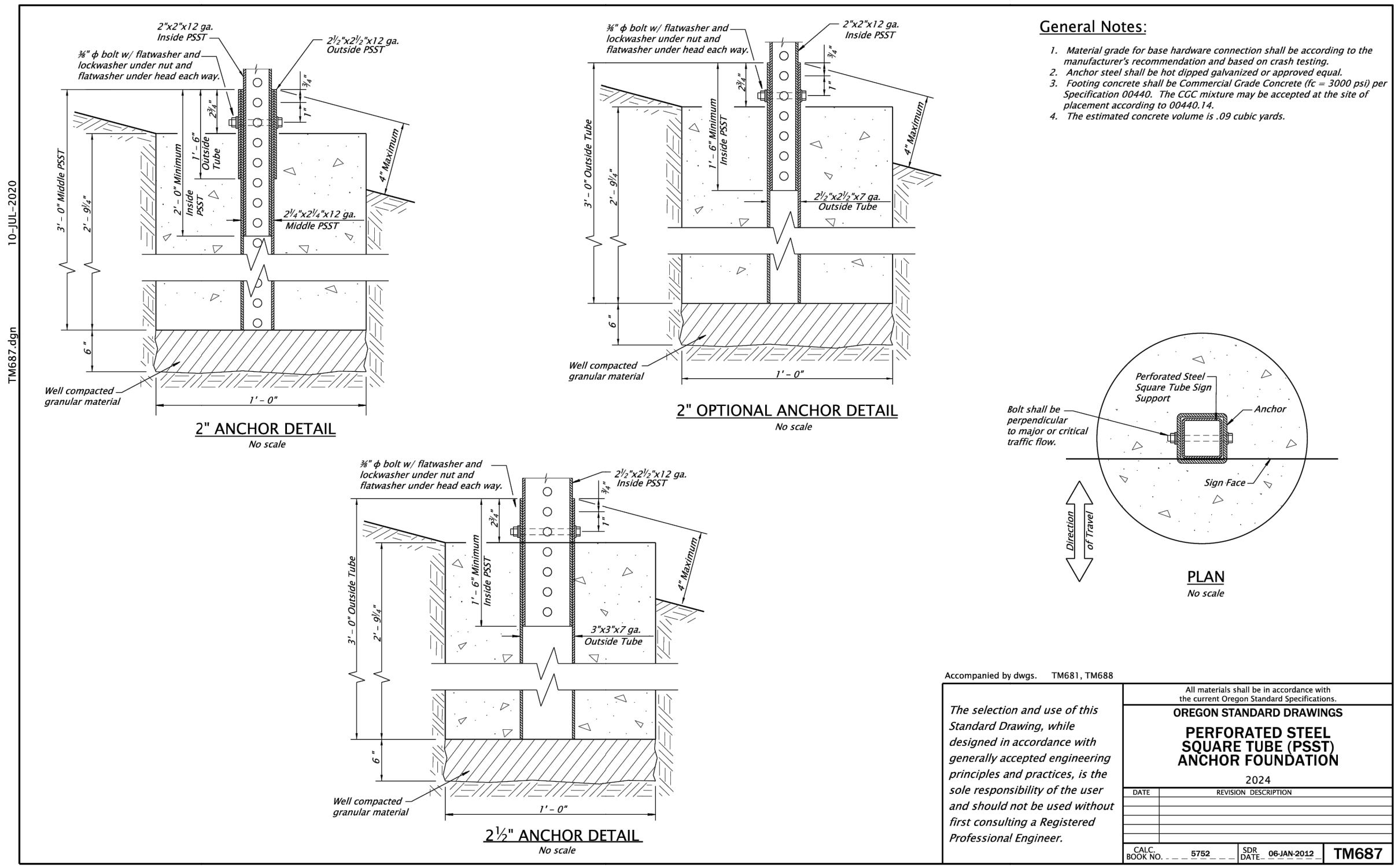
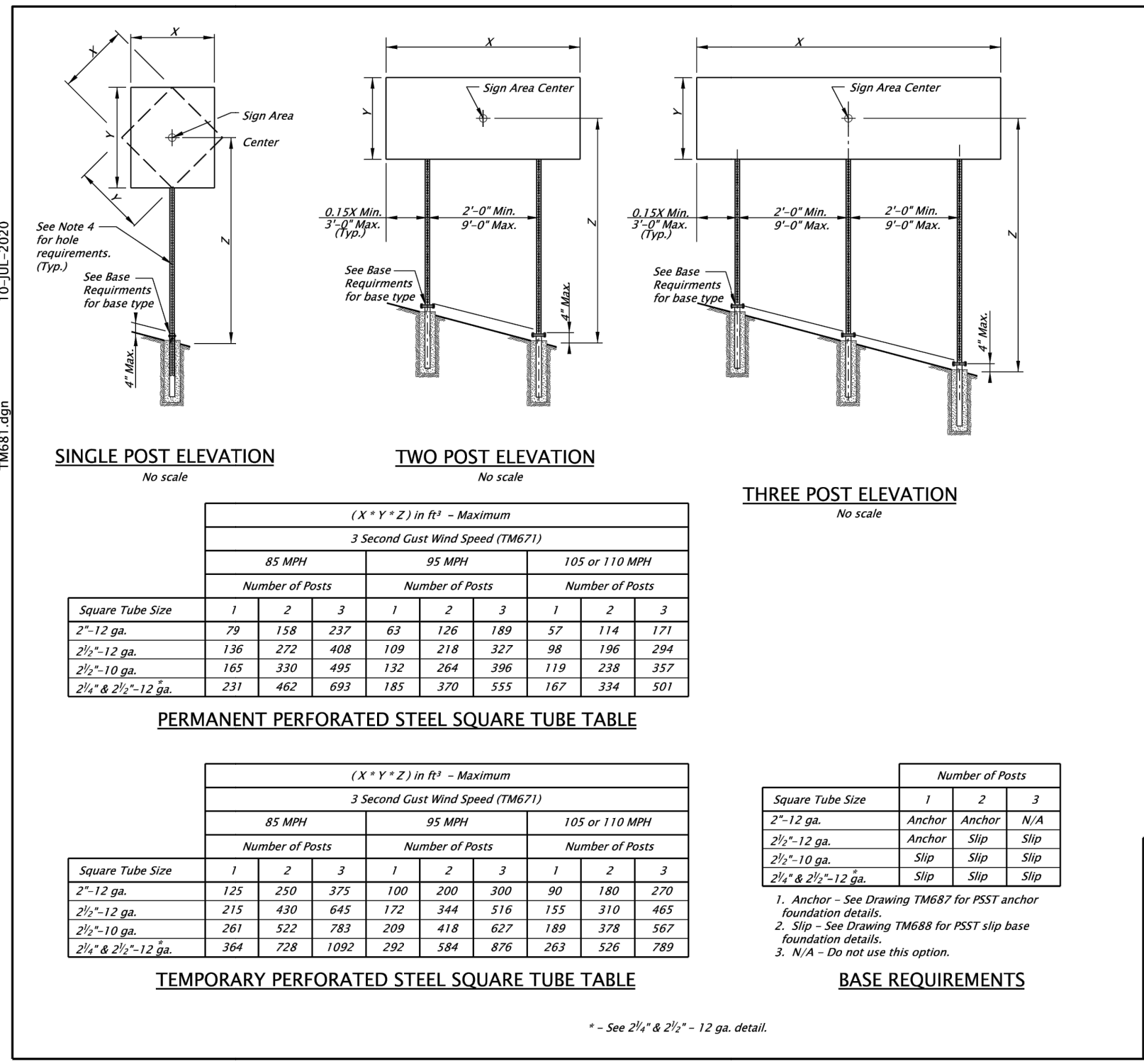
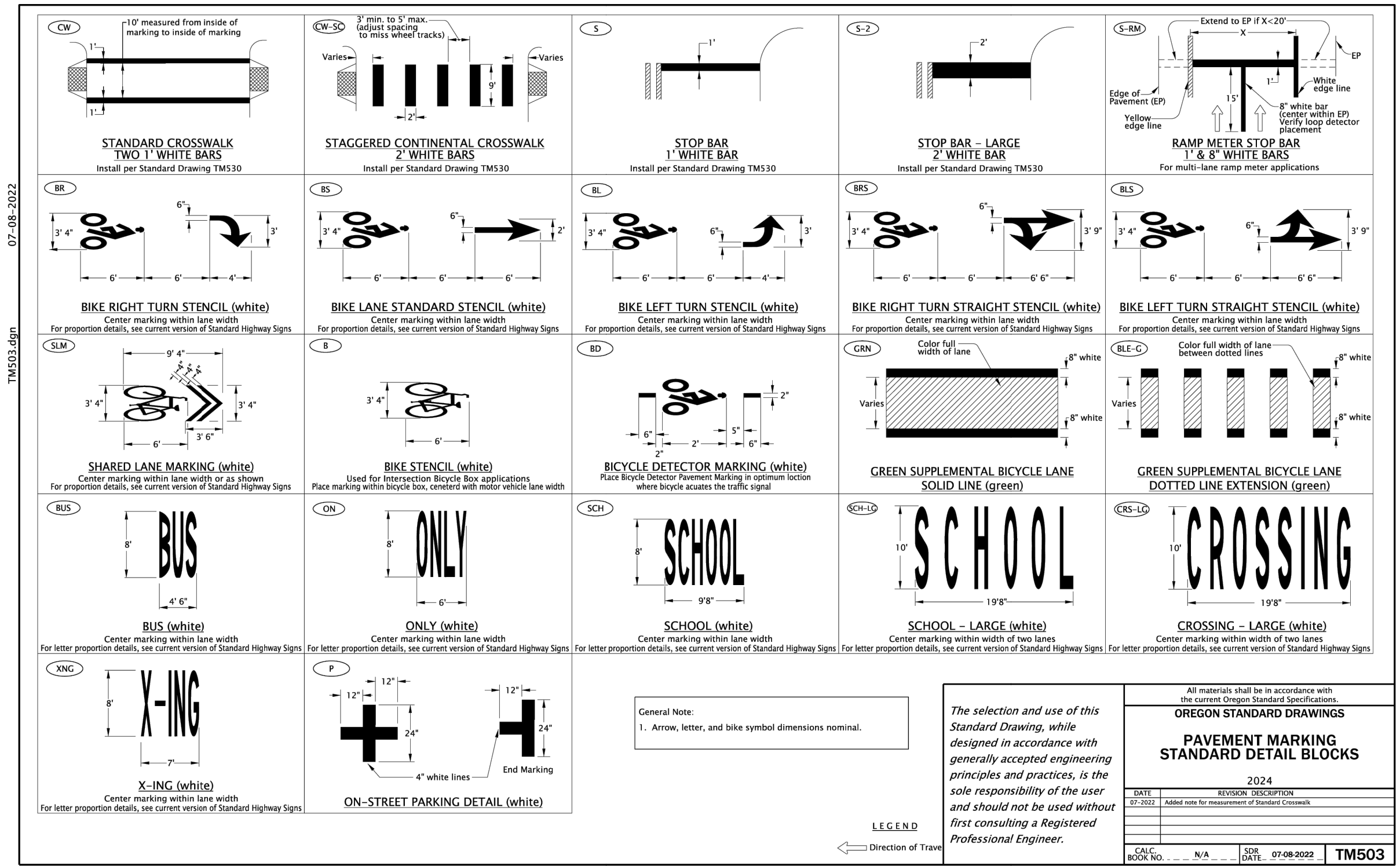
**Notes:**

- 6" minimum if behind barrier.
- 2' minimum if restricted RW.
- 20' for ramp terminals.
- 8" minimum if bicycle path underneath.
- 8" minimum if secondary signs attached.
- 5' minimum if outside clearance, in rural areas and no pedestrians underneath.
- For multi-post installations measure distance from post closest to roadway.

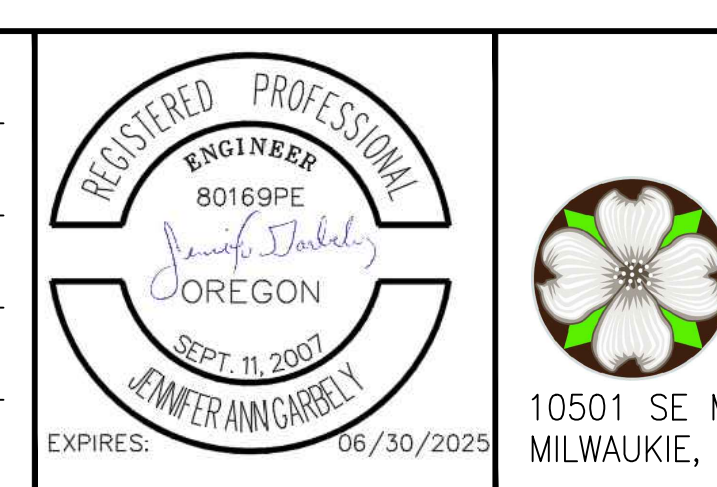
**The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.**

**OREGON STANDARD DRAWINGS**  
**SIGN INSTALLATION DETAILS**  
 2024  
 DATE: REVISION DESCRIPTION  
 01/23 Initial drawing  
 SCALE: N/A  
 DESIGNED BY: SRJ  
 CHECKED BY: SRJ  
 DATE: 07 JAN 2023  
 SHEET NO.: 1  
 TOTAL SHEETS: 1  
 PROJECT NO.: TM200

Effective Date: December 1, 2023 – May 31, 2024



NO.	DATE	BY	REVISIONS
		TAP	DESIGNED 3/11/2022
		JRN	DRAFTED 9/13/2024
		JAG	CHECKED 9/16/2024
			APPROVED _____ DATE _____



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**ARDENWALD NORTH IMPROVEMENTS**  
**SIGN AND PAVEMENT MARKING DETAILS**

PROJECT NO.: W61  
 SHEET NO.: 93 OF 93  
 DATE: 9/13/2024  
 SHEET: C554