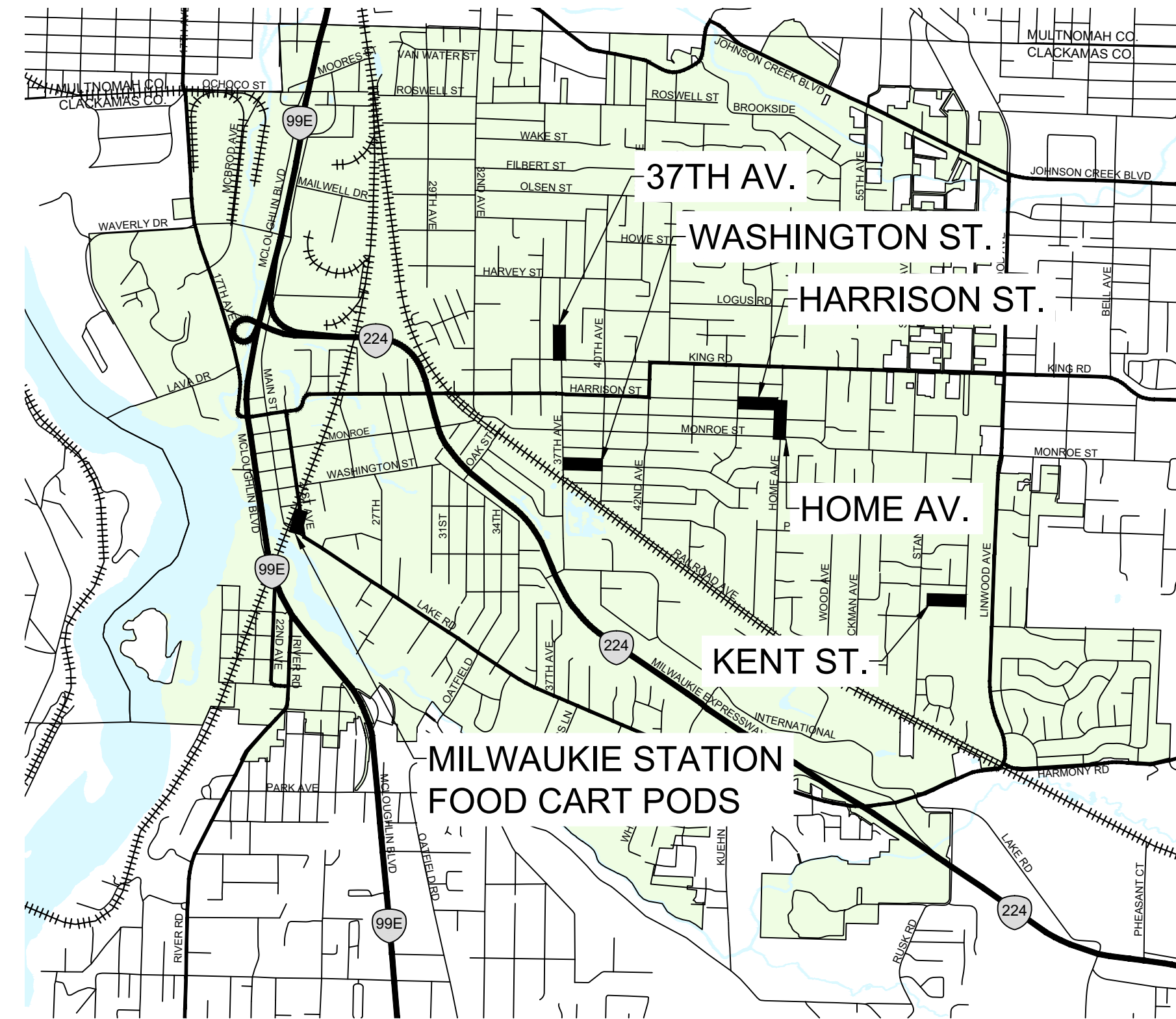


CITY OF MILWAUKIE, OREGON

WASTEWATER SYSTEM IMPROVEMENTS

37TH AVENUE, KENT STREET, WASHINGTON STREET, HARRISON STREET, HOME AVENUE, & MILWAUKIE STATION FOOD CART POD

CIP 2021-X39



LOCATION MAP

Scale: N.T.S.

ABBREVIATIONS

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



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 APPROXIMATELY 1363 LF OF 8-INCH SANITARY SEWER PIPE REPLACEMENT WITH CORRESPONDING TRENCH RESURFACING, ACTIVE LATERAL RECONNECTIONS, AND INACTIVE LATERAL ABANDONMENT ON KENT STREET, WASHINGTON STREET, AND 37TH AVENUE. THE PROJECT ALSO INCLUDES TWO NEW MID-RUN 48-INCH MANHOLE INSTALLATIONS ON WASHINGTON STREET AND 37TH AVENUE. THERE IS APPROXIMATELY 1179 LF OF CURE-IN-PLACE-PIPE LINING ON HOME AVENUE AND HARRISON STREET. THERE WILL ALSO BE APPROXIMATELY 310LF OF 4 AND 6-INCH SANITARY SEWER PIPE, DUMP STATIONS, AND A GREASE INTERCEPTOR INSTALLED FOR SANITARY CONNECTIONS TO THE FOOD TRUCKS AND PUBLIC SINK AT THE MILWAUKIE STATION FOOD CART POD.

PROJECT MANAGER

NAME: BRANDON BOUTROS
PHONE NUMBER: (971) 754-5750
EMAIL ADDRESS: BOUTROS@MILWAUKIEOREGON.GOV

INSPECTIONS

NAME: BUILDINGPERMITS.OREGON.GOV
PHONE NUMBER: 1-888-299-2821

UTILITY CONTACTS

CITY OF MILWAUKIE:
EMERGENCY ON-CALL: 503-348-8833
EROSION CONTROL: GALLEN HOSHOVSKY 503-786-7660
STORMWATER/WASTEWATER: SHANE HART 503-786-7679
STREETS/WATER: RONELLE SEARS 503-786-7615

PORTLAND GENERAL ELECTRIC:
EMERGENCY: 503-464-7777
DANIEL SAPP: 971-533-6526
EMAIL: DANIEL.SAPP@PGN.COM

NORTHWEST NATURAL:
JERRY VAUGHN JR.: 503-226-4211 X6746
EMAIL: JDV@NWNATURAL.COM

LUMEN (FORMERLY CENTURYLINK):
DONAL SHEERAN: 503-422-0483
EMAIL: DONAL.SHEERAN@LUMEN.COM
RELOCATIONS: RELOCATIONS@LUMEN.COM

COMCAST CABLE:
CHAD VAUGHN: 503-813-0484 (O), 971-801-5813 (C)
MATTHEW BRAVO: 503-813-0576 (O), 503-351-9311 (C)
EMAIL: MATTHEW_BRAVO@COMCAST.COM

SHEET INDEX

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EROSION AND SEDIMENT CONTROL PLAN		
4	C10	EROSION AND SEDIMENT CONTROL COVER SHEET
5	C11	EROSION AND SEDIMENT CONTROL NOTES
6-8	C12-C14	EROSION AND SEDIMENT CONTROL PLANS
9	C15	EROSION AND SEDIMENT CONTROL DETAILS
SANITARY SEWER PLAN & PROFILES		
10	SS21	KENT STREET - STA 0+00 TO STA 4+30
11	SS22	WASHINGTON STREET - STA 0+00 TO 5+60
12	SS23	37TH AVENUE - STA 0+00 TO 5+50
13	SS24	HARRISON STREET - STA 0+00 TO 4+00
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15	SS26	HOME AVE - STA 0+00 TO 6+00
16	SS27	MILWAUKIE STATION
17-19	SS28-SS30	CONSTRUCTION DETAILS
TEMPORARY TRAFFIC CONTROL		
20	TC31	TEMPORARY TRAFFIC CONTROL DETAILS

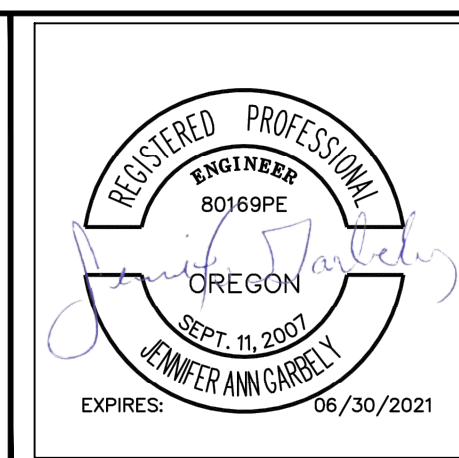
NOTE: UNDERGROUND AND OVERHEAD POWER, GAS, AND TELECOMMUNICATION UTILITIES ARE LOCATED WITHIN THE RIGHT OF WAY. PROJECT HAS NOT BEEN SURVEYED & CITY UTILITY LOCATIONS ARE NOT FROM FIELD LOCATES. ALL DATA WAS COLLECTED FROM GIS AND INVERT MEASUREMENTS.



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

BB	01/2023	DESIGNED	DATE
BB	01/2023	DRAFTED	DATE
		CHECKED	DATE
		APPROVED	DATE



6101 SE JOHNSON CREEK BLVD.
MILWAUKIE, OR 97206

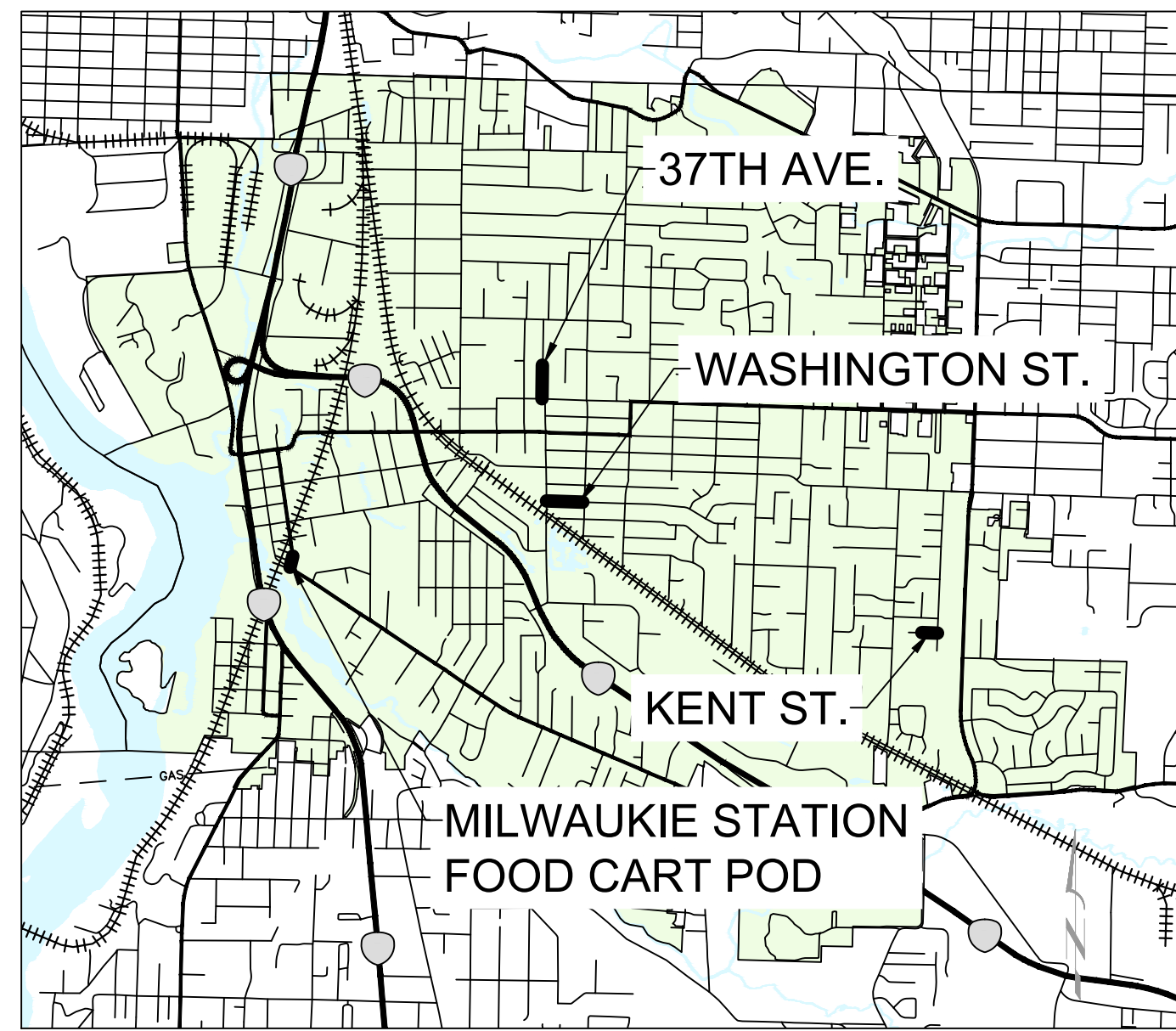
PHONE: 503-786-7600
FAX: 503-774-8236

WASTEWATER SYSTEM IMPROVEMENTS

COVER SHEET

PROJECT NO.: CIP 2021-X39	CONTRACT NO.: G01	DATE: 01/2023	SHEET NO.: 1 OF 20
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WASTEWATER SYSTEM IMPROVEMENTS EROSION AND SEDIMENT CONTROL PLAN



VICINITY MAP
1" = 2,500'

DESIGNER:

NAME: Brandon Boutros
ADDRESS: 10722 SE MAIN STREET, MILWAUKIE OR 97222
PHONE: 503-786-7541
EMAIL: BOUTROS@MILWAUKIE.OREGON.GOV

CONTRACTOR: TBD

NAME:
ADDRESS:
PHONE:
EMAIL:

BMP INSTALLER/MAINTAINER: TBD

NAME:
ADDRESS:
PHONE:
EMAIL:

CESCL SITE INSPECTOR: TBD

NAME:
ADDRESS:
PHONE:
EMAIL:
CERTIFICATE PROGRAM AND NUMBER:
EXPIRATION DATE:

SITE DESCRIPTION:

LATITUDE AND LONGITUDE:
45.444, -122.619

SIC CODE: 1623
NAICS CODE: 237110

CONSTRUCTION ACTIVITIES:
EXISTING SITE CONDITIONS:

THREE UNIFORM TWO-LANE PAVED RESIDENTIAL ROADWAYS AND ONE FOOD CART POD
DEVELOPED CONDITIONS:
TWO SANITARY SEWER MANHOLE INSTALLATIONS, 2 NEW MANHOLES, 1360 FEET OF SANITARY MAIN REPLACEMENT, 309 FEET OF SANITARY LATERAL INSTALLATION AND TRENCH PATCHING.
TOTAL SITE AREA: 16,800 SQFT
TOTAL DISTURBED AREA: 8,400 SQFT
MAXIMUM AREA TO BE DISTURBED AT ONE TIME: 2800 SQFT

NEAREST RAIN GAUGE:

Station 64 - Harney Rain Gage
2033 Harney St.
Portland, OR 97202
https://or.water.usgs.gov/non-usgs/bes/harney_pump.rain

RECEIVING WATERBODIES:

NEAREST RECEIVING BODY: JOHNSON CREEK, MT SCOTT CREEK (KELLOGG CREEK), WILLAMETTE RIVER
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

MOUNT SCOTT CREEK CATEGORY 5: DISSOLVED OXYGEN- SPAWNING; ENDRIN ALDEHYDE- HUMAN HEALTH. CATEGORY 4A: E. COLI

WILLAMETTE RIVER SOUTH OF JOHNSON CREEK CATEGORY 5: CYANIDE- AQUATIC LIFE; ALDRIN- HUMAN HEALTH; DIELDRIN- HUMAN HEALTH; ETHYLBENZENE- HUMAN HEALTH; HEXACHLOROBENZENE- HUMAN HEALTH; DDE 4,4'- HUMAN HEALTH; DDT 4,4'- HUMAN HEALTH; POLYCHLORINATED BIPHENYLS (PCBS)- HUMAN HEALTH; BIOCRITERIA; POLYCYCLIC AROMATIC HYDROCARBONS (PAHS)- HUMAN HEALTH; TEMPERATURE- YEAR ROUND. CATEGORY 4(B,C): ,PENTACHLOROPHENOL- HUMAN HEALTH

WILLAMETTE RIVER NORTH OF JOHNSON CREEK CATEGORY 5: TEMPERATURE- YEAR ROUND; CHLOROPHYLL-A; IRON (TOTAL)- AQUATIC LIFE; ALDRIN- HUMAN HEALTH; DIELDRIN- HUMAN HEALTH; ETHYLBENZENE- HUMAN HEALTH; HEXACHLOROBENZENE- HUMAN HEALTH; DDE 4,4'- HUMAN HEALTH; DDT 4,4'- HUMAN HEALTH; POLYCHLORINATED BIPHENYLS (PCBS)- HUMAN HEALTH; CHLORDANE- HUMAN HEALTH; DISSOLVED OXYGEN- YEAR ROUND; BIOCRITERIA; HARMFUL ALGAL BLOOMS; CYANIDE- AQUATIC LIFE; POLYCYCLIC AROMATIC HYDROCARBONS (PAHS)- HUMAN HEALTH. CATEGORY 4(B,C): ,PENTACHLOROPHENOL- HUMAN HEALTH

PROJECTED SCHEDULE

UTILITY CONSTRUCTION: March-July 2023
REMOVAL OF STORMWATER CONTROLS AND CONSTRUCTION EQUIPMENT: July 30, 2023
FINAL DATE OF CONSTRUCTION POLLUTANT-GENERATING ACTIVITIES: July 31, 2023

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

SITE SOIL CLASSIFICATION:

Latourell loam, 0 to 3 percent slopes
Woodburn silt loam, 3 to 8 percent slopes

TYPE OF FILL MATERIAL TO BE USED: 3/4-INCH AGGREGATE

ENGINEERED SOILS: NONE

AUTHORIZED NON-STORMWATER DISCHARGES: DEWATERING TRENCHES TO SANITARY SEWER

SHEET INDEX

SHEET NO.	DESCRIPTION
C10	EROSION AND SEDIMENT CONTROL COVER SHEET
C11	EROSION AND SEDIMENT CONTROL NOTES
C12	EROSION AND SEDIMENT CONTROL PLANS
C13	EROSION AND SEDIMENT CONTROL PLANS
C14	EROSION AND SEDIMENT CONTROL PLANS
C15	EROSION AND SEDIMENT CONTROL DETAILS

BMP MATRIX FOR CONSTRUCTION PHASES

	BMP MATRIX	
	PRECONSTRUCTION	UTILITY CONSTRUCTION
EROSION PREVENTION		
PRESERVE NATURAL VEGETATION	X	X
PLASTIC SHEETING		X
DUST CONTROL		X
SEDIMENT CONTROL		
INLET PROTECTION	X	X
DEWATERING		X

INSPECTION FREQUENCY:

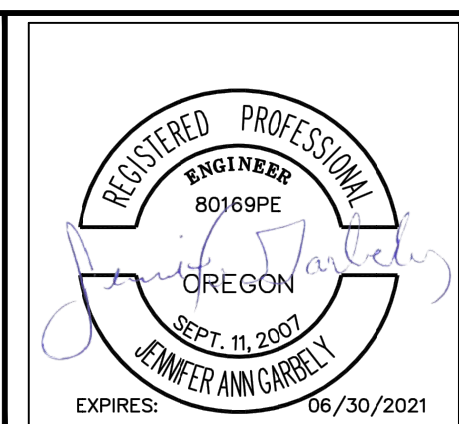
SITE CONDITION	MINIMUM FREQUENCY
1. ACTIVE PERIOD	ON INITIAL DATE THAT LAND DISTURBANCE ACTIVITIES COMMENCE. WITHIN 24 HOURS OF ANY STORM EVENT, INCLUDING RUNOFF FROM SNOW MELT, THAT RESULTS IN DISCHARGE FROM THE SITE. AT LEAST ONCE EVERY 14 DAYS, REGARDLESS OF WHETHER STORMWATER RUNOFF IS OCCURRING.
2. INACTIVE PERIODS GREATER THAN SEVEN (7) CONSECUTIVE CALENDAR DAYS.	THE INSPECTOR MAY REDUCE THE FREQUENCY OF INSPECTIONS IN ANY AREA OF THE SITE WHERE THE STABILIZATION STEPS IN SECTION 2.2.20 HAVE BEEN COMPLETED TO TWICE PER MONTH FOR THE FIRST MONTH, NO LESS THAN 14 CALENDAR DAYS APART, THEN ONCE PER MONTH.
3. PERIODS 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 SUSPENDED 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.

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.



DESIGNED	BB	01/2023
DRAFTED	BB	01/2023
CHECKED		DATE
APPROVED		DATE



CITY OF MILWAUKIE
6101 SE JOHNSON CREEK BLVD.
MILWAUKIE, OR 97206
PHONE: 503-786-7600
FAX: 503-774-8236

WASTEWATER SYSTEM IMPROVEMENTS
EROSION AND SEDIMENT CONTROL COVER SHEET

PROJECT NO.:	CIP 2021-X39	CONTRACT NO.:	C10	DATE:	01/2023	SHEET NO.:	4 OF 20
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NO.	DATE	BY	REVISIONS

DEQ EROSION AND SEDIMENT CONTROL PLAN DRAWING NOTES REV. 12/15/20

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.q)
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 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)
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 require 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. 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.
3. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
4. RUN-ON AND RUN-OFF CONTROLS SHALL BE IN PLACE AND FUNCTIONING PRIOR TO BEGINNING SUBSTANTIAL CONSTRUCTION ACTIVITIES.
5. ITEMS NOTED FOR REMOVAL OR DEMOLITION TO BE DISPOSED OF IN A MANNER THAT MEETS APPLICABLE STATE AND FEDERAL REGULATIONS.
6. INSTALLATION AND APPROVAL OF ALL TREE PROTECTION AND ESC MEASURES ARE NEEDED BEFORE CONSTRUCTION BEGINS.
7. 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.

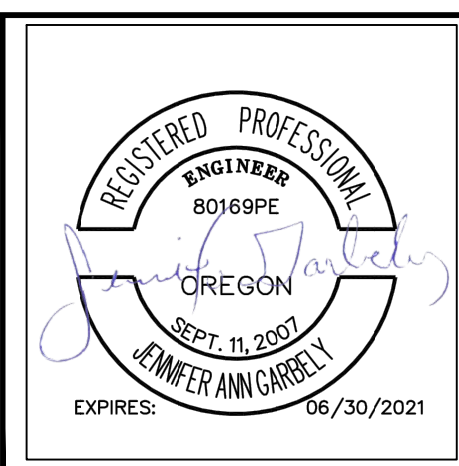
GRADING, STREET, AND UTILITY ESC CONSTRUCTION NOTES:

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 WATTLES, 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 WASHERS, 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 BMP'S 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.

- * 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.

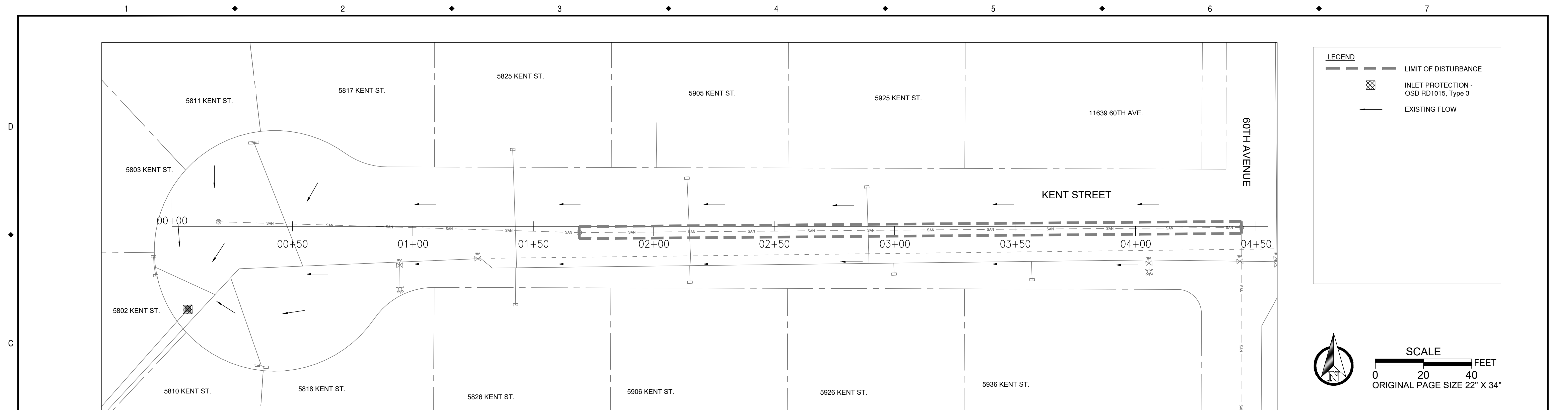
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APPROVED	DATE

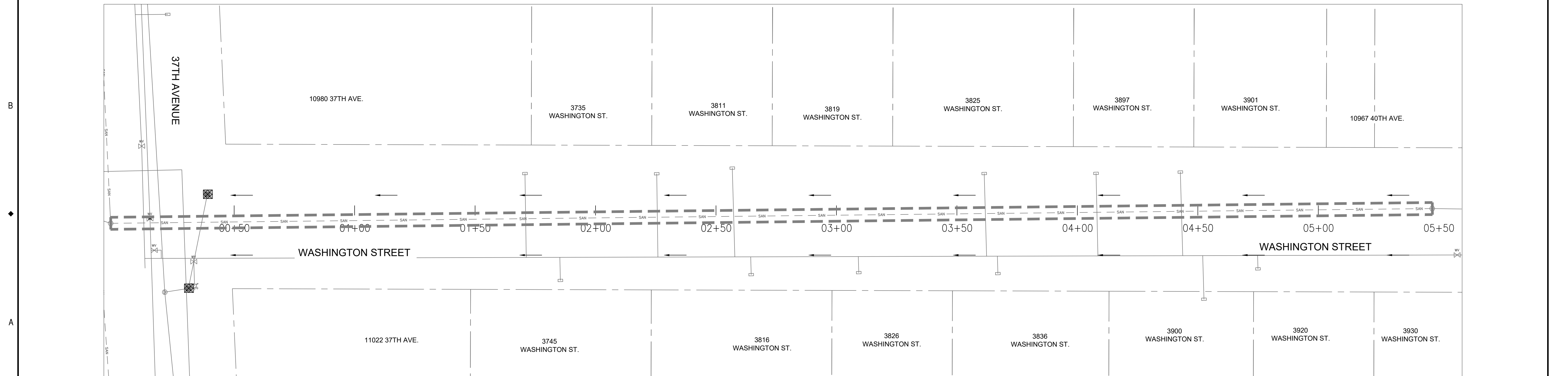


CITY OF MILWAUKIE
 6101 SE JOHNSON CREEK BLVD.
 MILWAUKIE, OR 97206
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 FAX: 503-774-8236

WASTEWATER SYSTEM IMPROVEMENTS			
EROSION CONTROL NOTES			
PROJECT NO.:	CIP 2021-X39	CONTRACT NO.:	C11
DATE:	01/2023	SHEET NO.:	5 OF 20



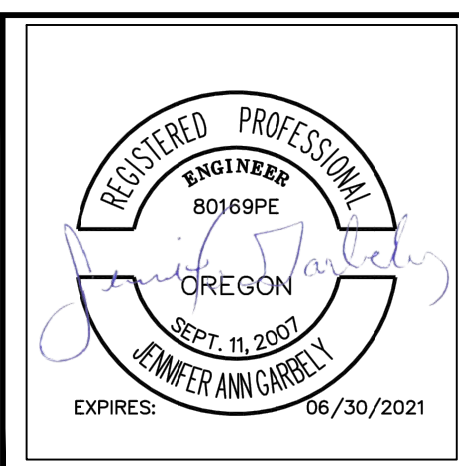
PLAN - KENT STREET
STA 00+00 TO STA 4+30



PLAN - WASHINGTON STREET
STA -0+10 TO 5+60

NO.	DATE	BY	REVISIONS

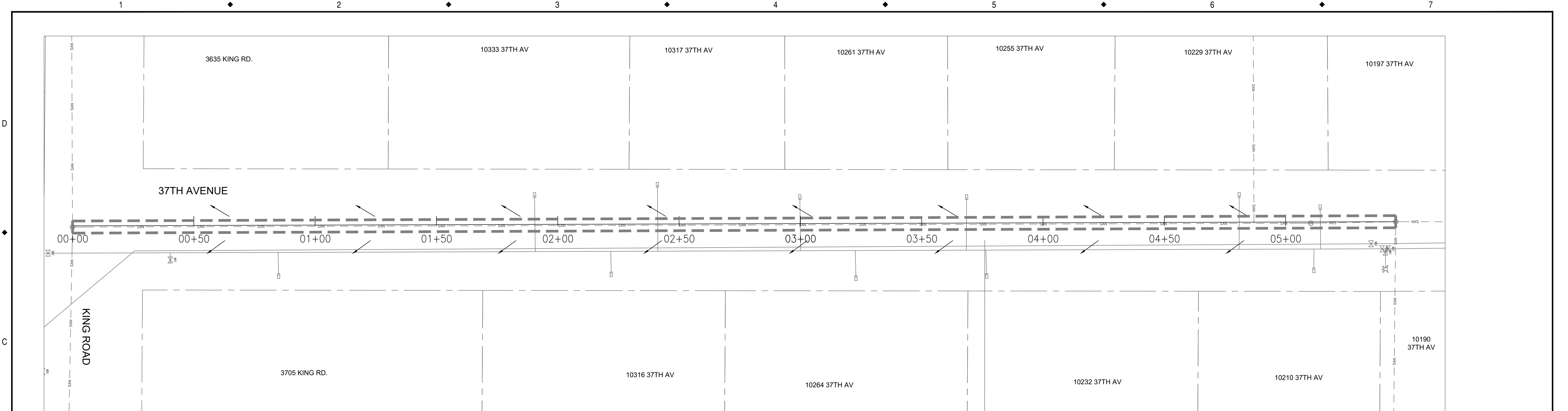
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WASTEWATER SYSTEM IMPROVEMENTS
EROSION CONTROL PLAN

PROJECT NO.: CIP 2021-X39	CONTRACT NO.: C12	DATE: 01/2023	SHEET NO.: 6 OF 20
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PLAN - 37TH AVENUE
STA 0+00 TO 5+50

LEGEND

- LIMIT OF DISTURBANCE
- INLET PROTECTION - OSD RD1015, Type 3
- EXISTING FLOW

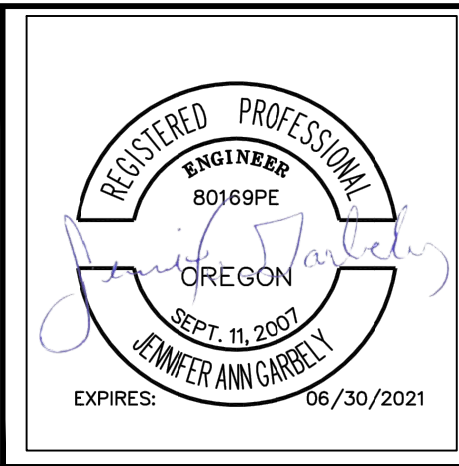
SCALE

0 20 40 FEET

ORIGINAL PAGE SIZE 22" X 34"

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CITY OF MILWAUKIE

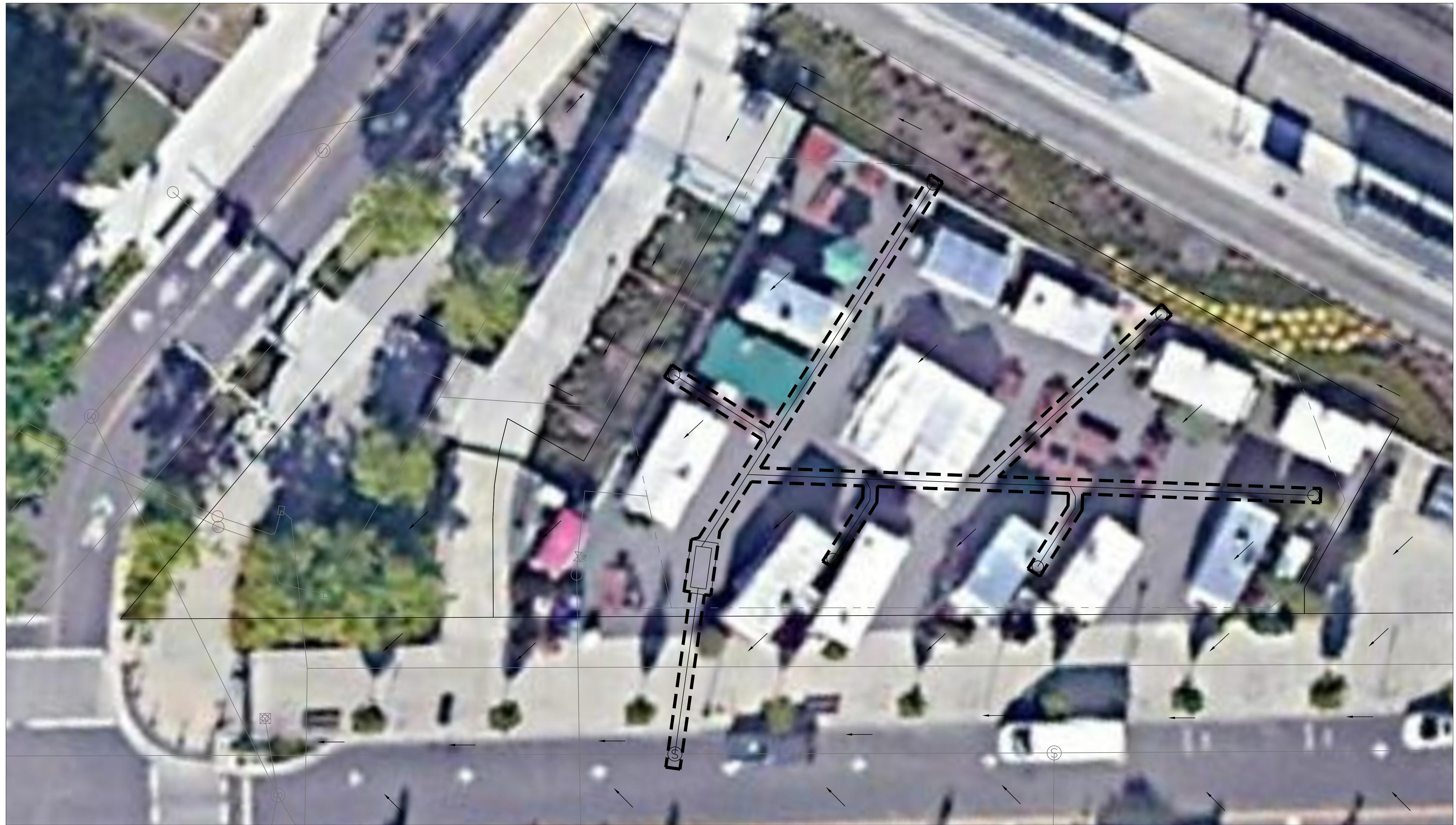
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WASTEWATER SYSTEM IMPROVEMENTS

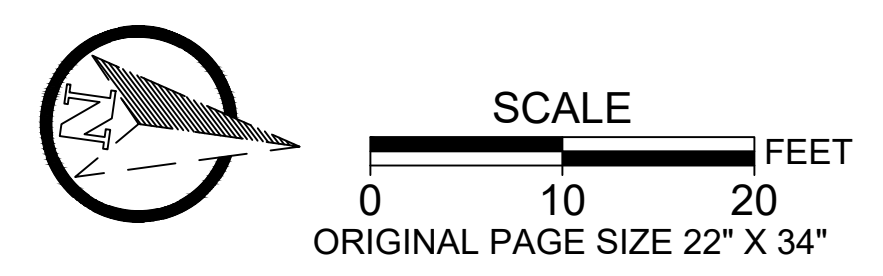
EROSION CONTROL PLAN

PROJECT NO.: CIP 2021-X39	CONTRACT NO.: C13	DATE: 01/2023	SHEET NO.: 7 OF 20
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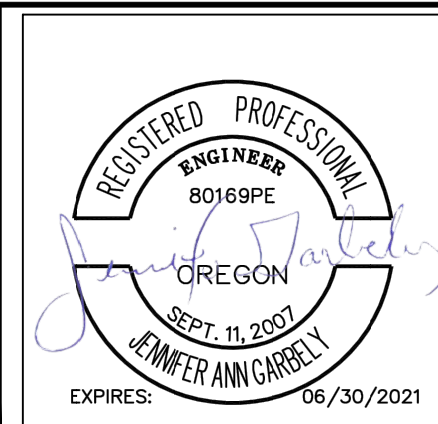
PLAN - Milwaukie Station
11301 SE 21st Av

- LEGEND**
- LIMIT OF DISTURBANCE
 - ⊠ INLET PROTECTION - OSD RD1015, Type 3
 - EXISTING FLOW
 - EXISTING CANOPY COVER



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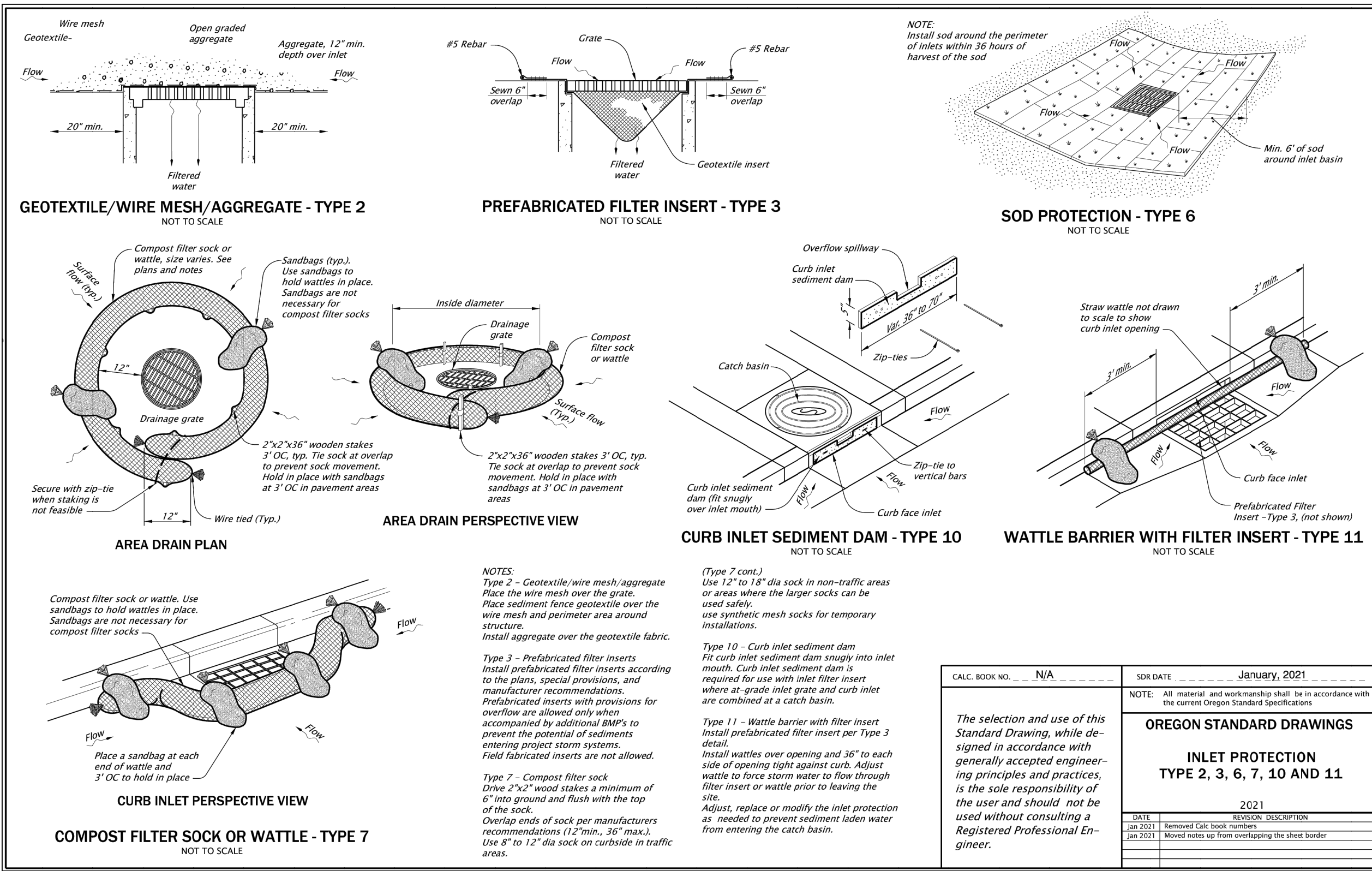


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WASTEWATER SYSTEM IMPROVEMENTS

EROSION CONTROL PLAN
Milwaukie Station Food Cart Pod

PROJECT NO.:	CIP 2021-X39	CONTRACT NO.:	C14	DATE:	01/2023	SHEET NO.:	8 OF 20
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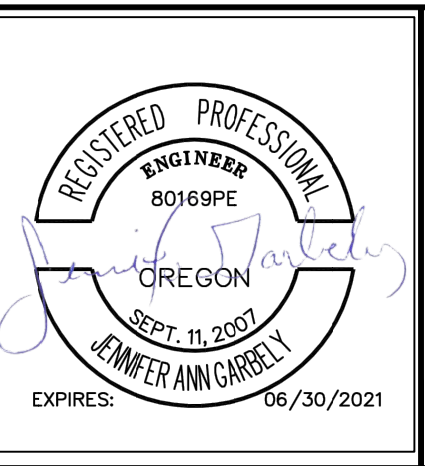
CALC. BOOK NO.	N/A	SDR DATE	January, 2021
NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications.			
OREGON STANDARD DRAWINGS			
INLET PROTECTION			
TYPE 2, 3, 6, 7, 10 AND 11			
2021			
DATE	REVISION	DESCRIPTION	
Jan 2021		Removed Calc. book number.	
Jan 2021		Moved notes up from overlapping the sheet border.	

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 consulting a Registered Professional Engineer.

RD1010

NO.	DATE	BY	REVISIONS

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CITY OF MILWAUKIE

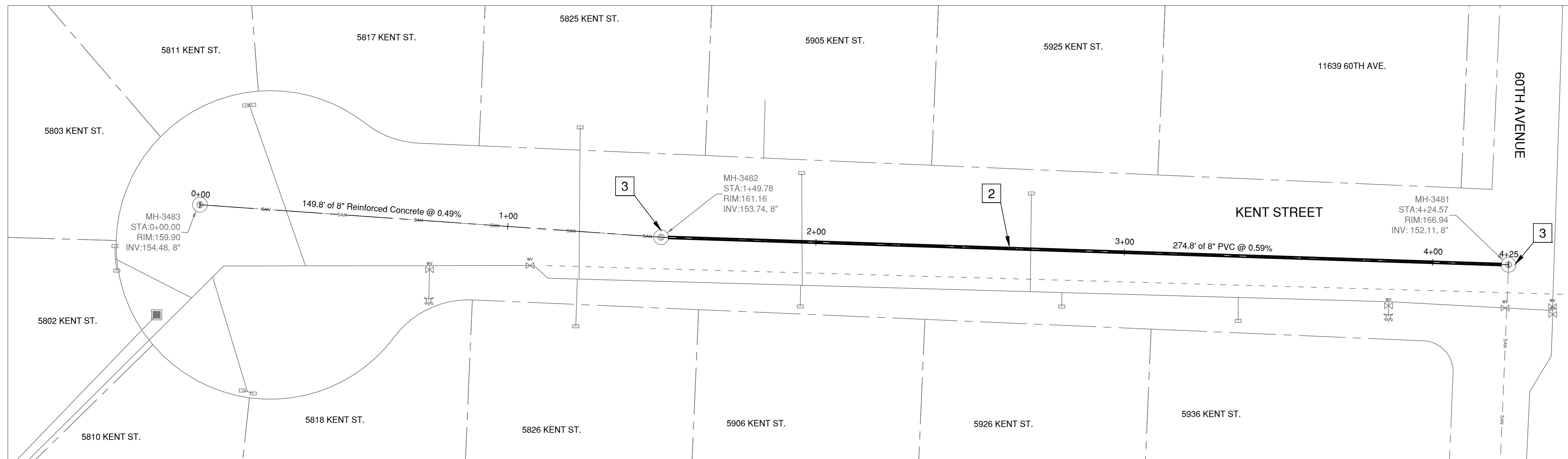
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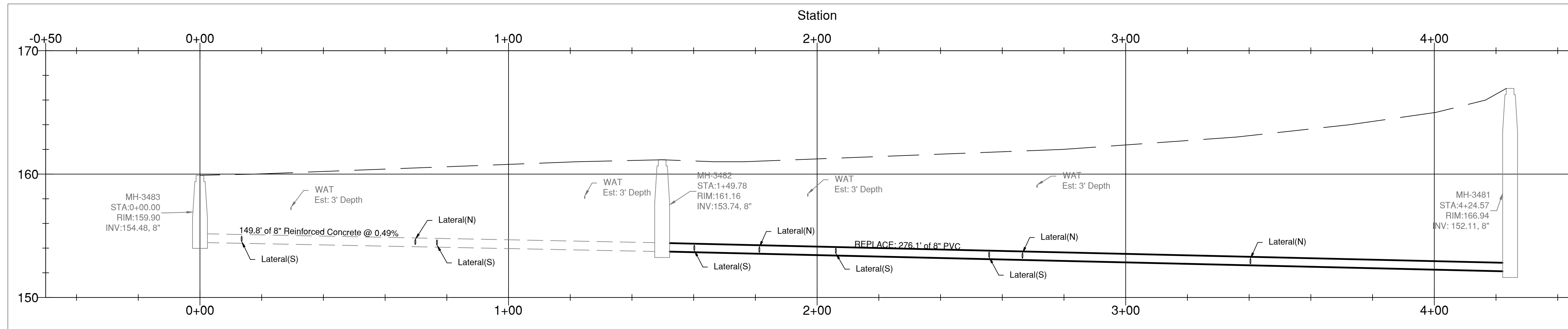
WASTEWATER SYSTEM IMPROVEMENTS

EROSION CONTROL DETAILS

PROJECT NO.:	CIP 2021-X39	CONTRACT NO.:	C15	DATE:	01/2023	SHEET NO.:	9 OF 20
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PLAN - KENT STREET
STA 00+00 TO STA 4+30



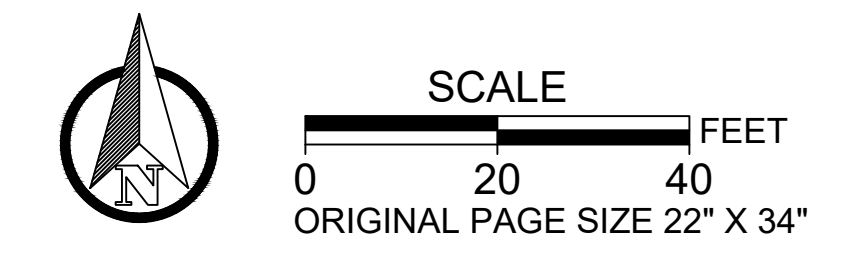
PROFILE - KENT STREET
STA 00+00 TO STA 4+30
HORIZONTAL SCALE 1" = 20'
VERTICAL SCALE 1" = 5'

- KEYED NOTES:**
- 1 - INSTALL AND CONNECT SANITARY MANHOLE PER OSD RD336, RD338, RD344, RD345 AND RIMRISER DETAILS WITH COM DWG. 301 LID
 - 2 - INSTALL AND CONNECT 8" SANITARY MAIN PER OSSC 00445, COM DWG. 304, 305, AND 510
 - 3 - CONNECT TO EXISTING MANHOLE PER OSD RD 345
 - 4 - INSTALL NEW STOP BAR PER OSD TM503
 - 5 - DECOMMISSION MANHOLE PER OSSC 00490
 - 6 - LINE SANITARY SEWER PIPE PER OSSC 00412
- *** CONSTRUCTION NOTE: SEE BID DOCUMENT FOR SUBGRADE SOIL TYPES ON KENT STREET.

- SANITARY SEWER NOTES:**
- 1. 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.
 - 2. MANHOLES SHALL BE ADJUSTED TO GRADE FOLLOWING PAVING. ADJUST TO GRADE USING AN APPROVED FOUR-POINT ADJUSTMENT SYSTEM SUCH AS THE RIMRISER SHIMLESS ADJUSTMENT SYSTEM, OR APPROVED EQUAL.

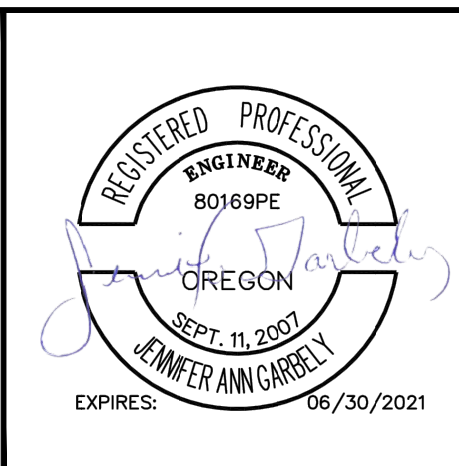
- STREET NOTES:**
- 1. THE CONTRACTOR SHALL SAWCUT STRAIGHT MATCHLINES TO CREATE A BUTT JOINT BETWEEN THE EXISTING PAVEMENT AND NEW PAVEMENT. SAWCUT LINES SHOWN REPRESENT APPROXIMATE LOCATIONS. FINAL LOCATION SHALL BE APPROVED BY CITY. SEAL JOINTS WITH RUBBERIZED SEALANT IMMEDIATELY FOLLOWING PAVING.
 - 2. CONTRACTOR SHALL PROOF-ROLL SUBGRADE, SUBBASE OR BASE WITH 10 CUBIC YARD TRUCK LOADED FOR CITY INSPECTION.

- SIGNS AND MARKING NOTES:**
- 1. CONTRACTOR SHALL NOT REMOVE ANY STREET SIGNAGE NOT INDICATED IN THE PLANS WITHOUT PRIOR CITY APPROVAL.
 - 2. CONTRACTOR SHALL REPLACE SIGNS, SIGN POLES, AND PAVEMENT MARKINGS DAMAGED DURING CONSTRUCTION. REPLACE SIGNAGE PER LATEST EDITION OF MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
 - 3. LOCATIONS ARE APPROXIMATE. FINAL LOCATION SHALL BE DETERMINED BY PROJECT MANAGER IN THE FIELD.
 - 4. STRIPING AND MARKING SHOULD BE APPLIED A MINIMUM OF 14 DAYS AFTER TOP LIFT ASPHALT IS PLACED.



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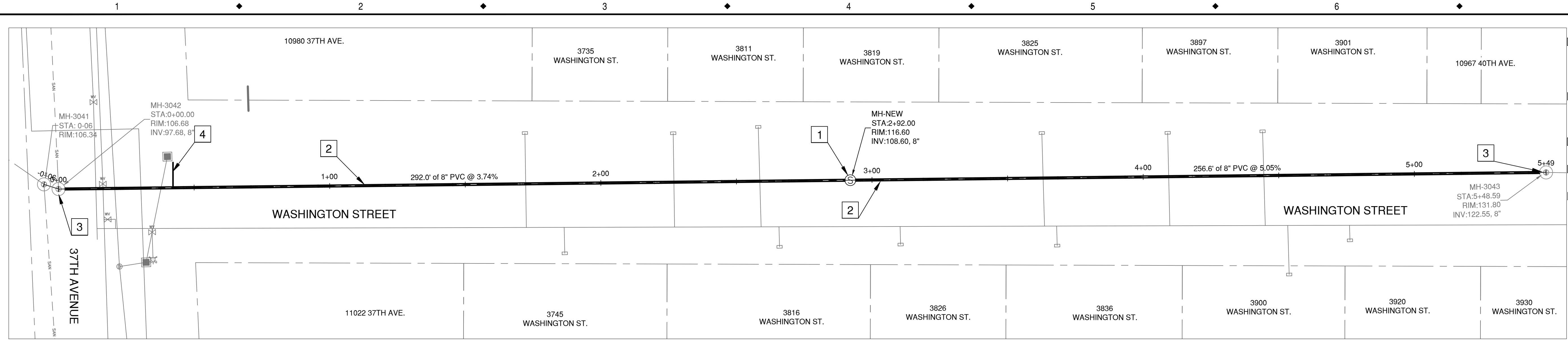



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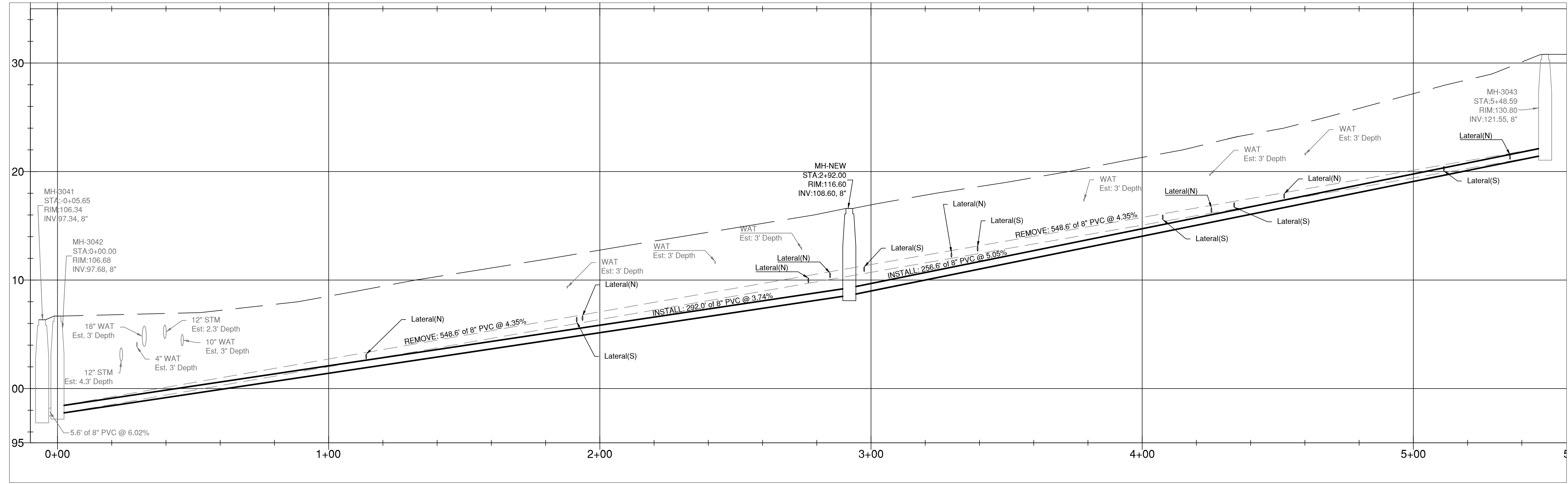
WASTEWATER SYSTEM IMPROVEMENTS

CONSTRUCTION PLAN
KENT STREET

PROJECT NO.: CIP 2021-X39	CONTRACT NO.: SS21	DATE: 01/2023	SHEET NO.: 10 OF 20
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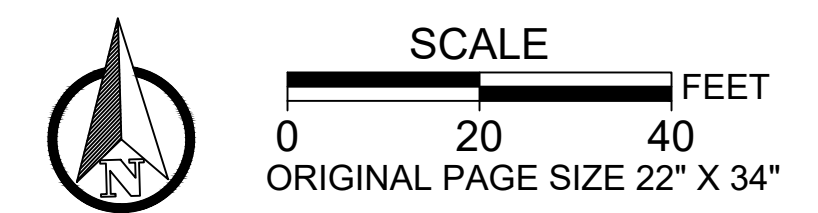


**PLAN - WASHINGTON STREET
STA -0+10 TO 5+60**



**PROFILE - WASHINGTON STREET
STA -00+10 TO STA 05+60**

HORIZONTAL SCALE 1" = 20'
VERTICAL SCALE 1" = 5'



- KEYED NOTES:**
- 1 - INSTALL AND CONNECT SANITARY MANHOLE PER OSD RD336, RD338, RD344, RD345, AND RIMRISER DETAILS WITH COM DWG. 301 LID
 - 2 - INSTALL AND CONNECT 8" SANITARY MAIN PER OSSC 00445, COM DWG. 304, 305, AND 510
 - 3 - CONNECT TO EXISTING MANHOLE PER OSD RD 345
 - 4 - INSTALL NEW STOP BAR PER OSD TM503
 - 5 - DECOMMISSION MANHOLE PER OSSC 00490

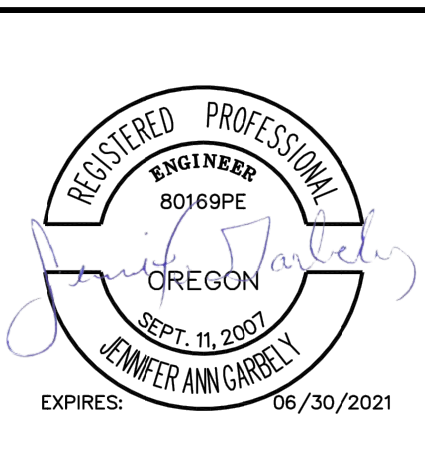
- SANITARY SEWER NOTES:**
1. MANHOLES SHALL BE PRECAST CONCRETE SECTIONS WITH MINIMUM INSIDE DIAMETER OF 48-INCHES, CONFORMING TO THE REQUIREMENTS OF ASTM C-478, EXCEPT AS NOTED ON THE PLANS.
 2. MANHOLES SHALL BE ADJUSTED TO GRADE FOLLOWING PAVING. ADJUST TO GRADE USING AN APPROVED FOUR-POINT ADJUSTMENT SYSTEM SUCH AS THE RIMRISER SHIMLESS ADJUSTMENT SYSTEM, OR APPROVED EQUAL.

- STREET NOTES:**
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 3. LOCATIONS ARE APPROXIMATE. FINAL LOCATION SHALL BE DETERMINED BY PROJECT MANAGER IN THE FIELD.
 4. STRIPING AND MARKING SHOULD BE APPLIED A MINIMUM OF 14 DAYS AFTER TOP LIFT ASPHALT IS PLACED.

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APPROVED		DATE



CITY OF MILWAUKIE

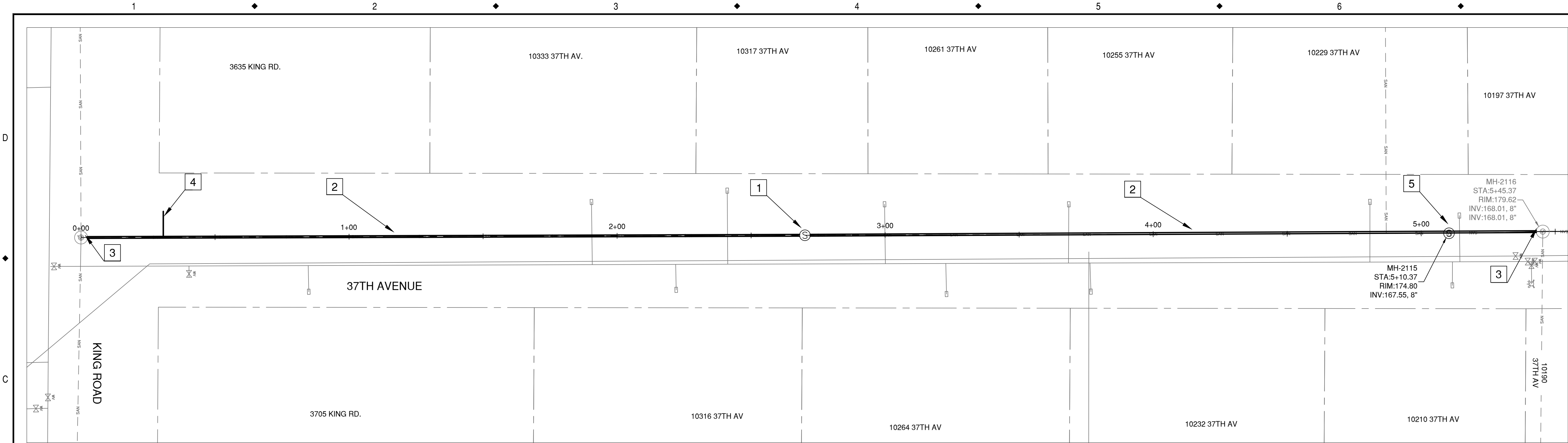
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MILWAUKIE, OR 97206

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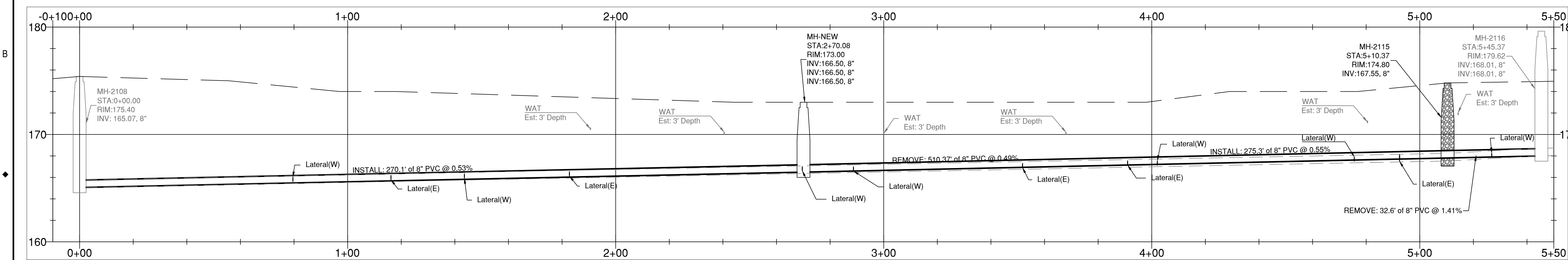
WASTEWATER SYSTEM IMPROVEMENTS

CONSTRUCTION PLAN
Washington Street

PROJECT NO.:	CIP 2021-X39	CONTRACT NO.:	SS22	DATE:	01/2023	SHEET NO.:	11 OF 20
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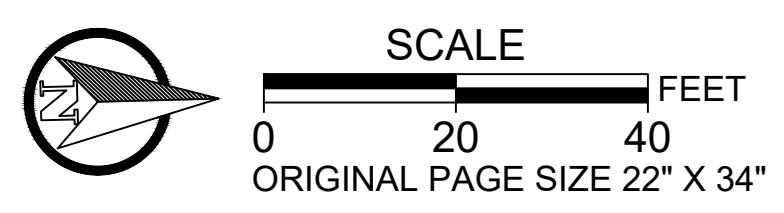


PLAN - 37TH AVENUE
STA 00+00 TO STA 05+50



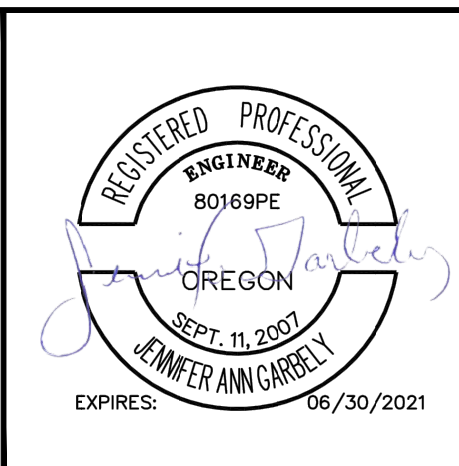
PROFILE - 37TH AVENUE
STA 00+00 TO STA 05+50
 HORIZONTAL SCALE 1" = 20'
 VERTICAL SCALE 1" = 5'

- KEYED NOTES:**
- 1 - INSTALL AND CONNECT SANITARY MANHOLE PER OSD RD336, RD338, RD344, RD345, AND RIMRISER DETAILS WITH COM DWG. 301 LID
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 - 5 - DECOMMISSION MANHOLE PER OSSC 00490
- SANITARY SEWER NOTES:**
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 - 2. MANHOLES SHALL BE ADJUSTED TO GRADE FOLLOWING PAVING. ADJUST TO GRADE USING AN APPROVED FOUR-POINT ADJUSTMENT SYSTEM SUCH AS THE RIMRISER SHIMLESS ADJUSTMENT SYSTEM, OR APPROVED EQUAL.
- STREET NOTES:**
- 1. 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.
 - 2. CONTRACTOR SHALL PROOF-ROLL SUBGRADE, SUBBASE OR BASE WITH 10 CUBIC YARD TRUCK LOADED FOR CITY INSPECTION.
- SIGNS AND MARKING NOTES:**
- 1. CONTRACTOR SHALL NOT REMOVE ANY STREET SIGNAGE NOT INDICATED IN THE PLANS WITHOUT PRIOR CITY APPROVAL.
 - 2. CONTRACTOR SHALL REPLACE SIGNS, SIGN POLES, AND PAVEMENT MARKINGS DAMAGED DURING CONSTRUCTION. REPLACE SIGNAGE PER LATEST EDITION OF MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
 - 3. LOCATIONS ARE APPROXIMATE. FINAL LOCATION SHALL BE DETERMINED BY PROJECT MANAGER IN THE FIELD.
 - 4. STRIPING AND MARKING SHOULD BE APPLIED A MINIMUM OF 14 DAYS AFTER TOP LIFT ASPHALT IS PLACED.



NO.	DATE	BY	REVISIONS

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DRAFTED	BB	01/2023
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APPROVED		



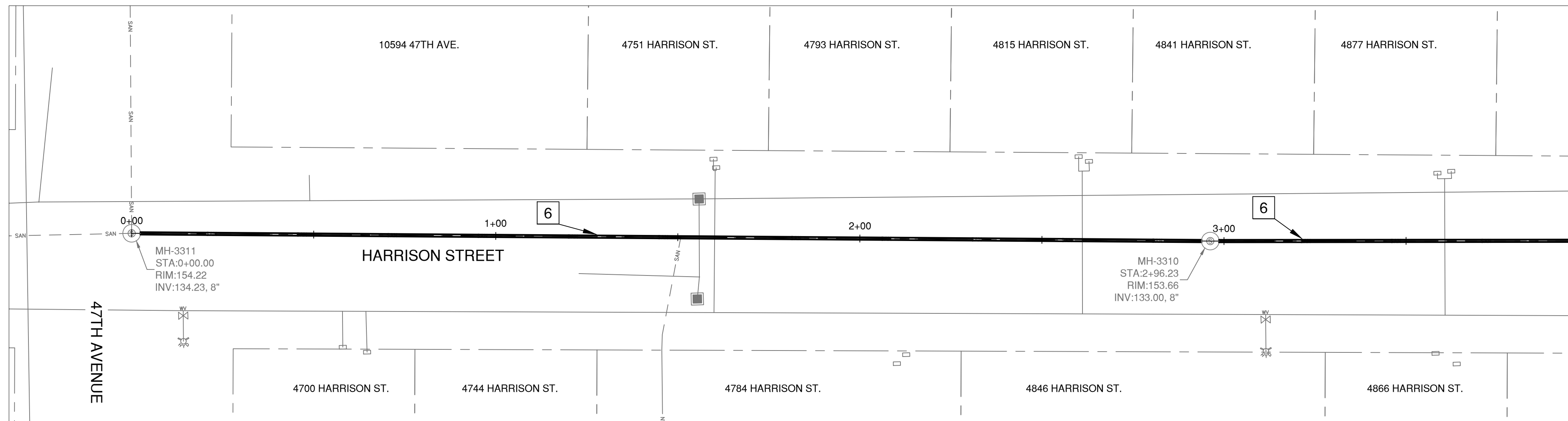

CITY OF MILWAUKIE
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 MILWAUKIE, OR 97206
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 FAX: 503-774-8236

WASTEWATER SYSTEM IMPROVEMENTS

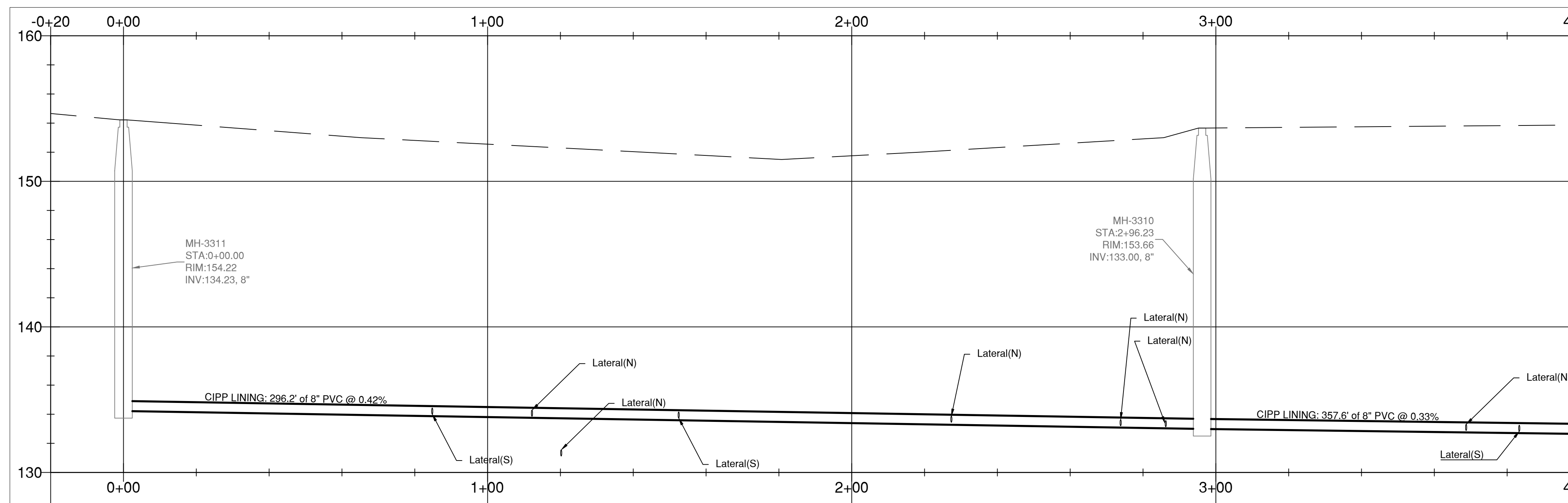
CONSTRUCTION PLAN

37th Avenue

PROJECT NO.: CIP 2021-X39	CONTRACT NO.: SS23	DATE: 01/2023	SHEET NO.: 12 OF 20
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PLAN - HARRISON STREET
STA 0+00 TO 4+00



PROFILE - HARRISON STREET
STA 00+00 TO STA 04+00
 HORIZONTAL SCALE 1" = 20'
 VERTICAL SCALE 1" = 5'

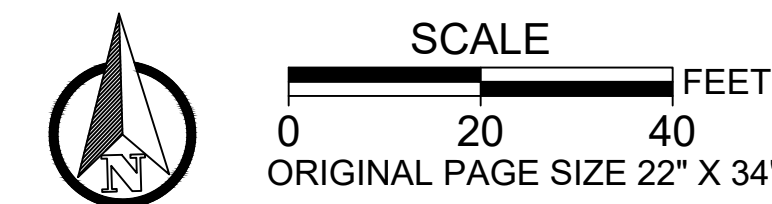
- KEYED NOTES:**
- 1 - INSTALL AND CONNECT SANITARY MANHOLE PER OSD RD336, RD338, RD344, RD345 AND RIMRISER DETAILS WITH COM DWG. 301 LID
 - 2 - INSTALL AND CONNECT 8" SANITARY MAIN PER OSSC 00445, COM DWG. 304, 305, AND 510
 - 3 - CONNECT TO EXISTING MANHOLE PER OSD RD 345
 - 4 - INSTALL NEW STOP BAR PER OSD TM503
 - 5 - DECOMMISSION MANHOLE PER OSSC 00490
 - 6 - LINE SANITARY SEWER PIPE PER OSSC 00412

*** CONSTRUCTION NOTE: SEE BID DOCUMENT FOR SUBGRADE SOIL TYPES ON KENT STREET.

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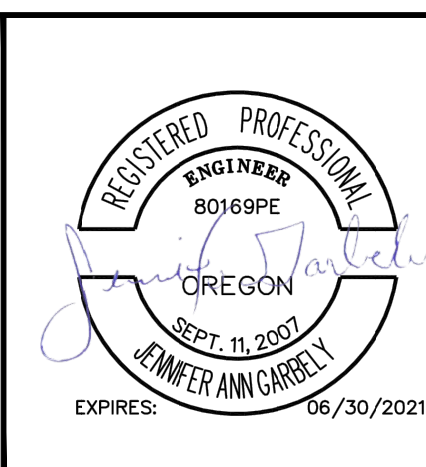
- STREET NOTES:**
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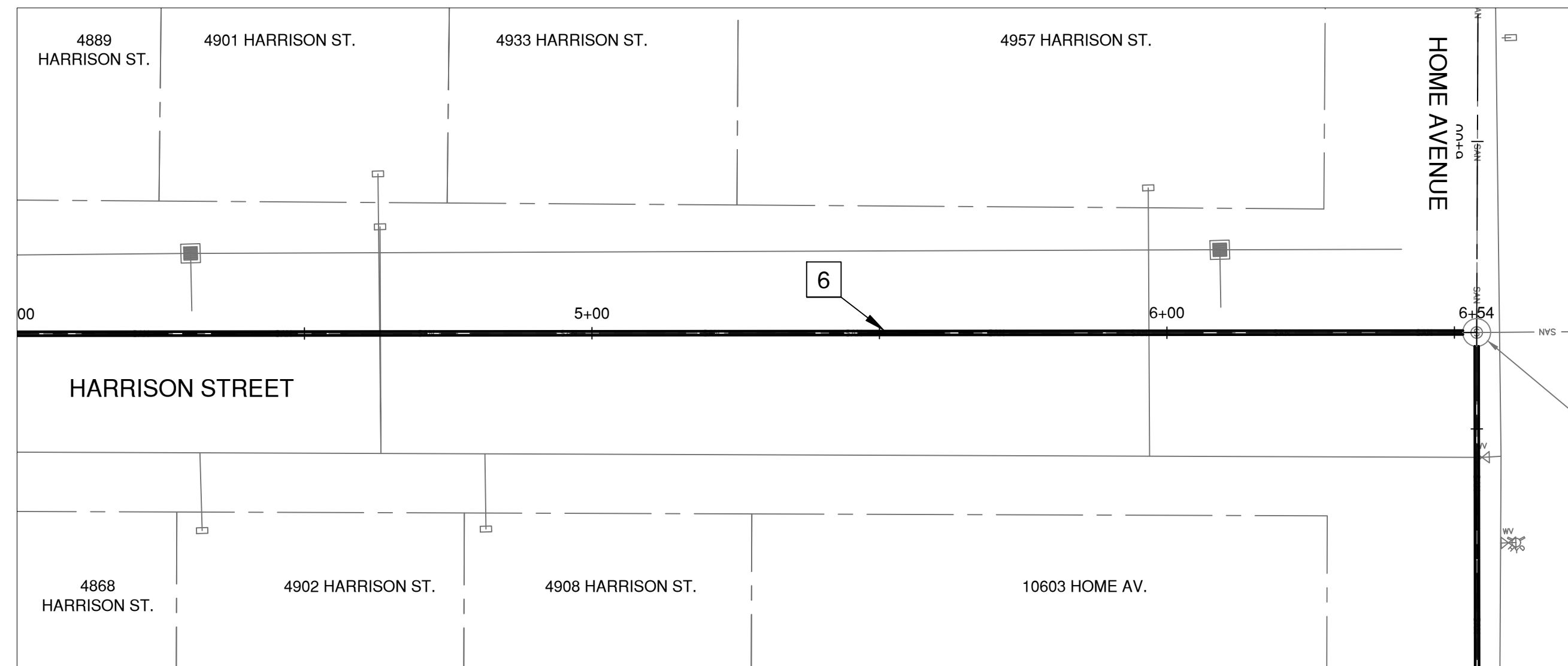
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DRAFTED	BB	01/2023
CHECKED		
APPROVED		



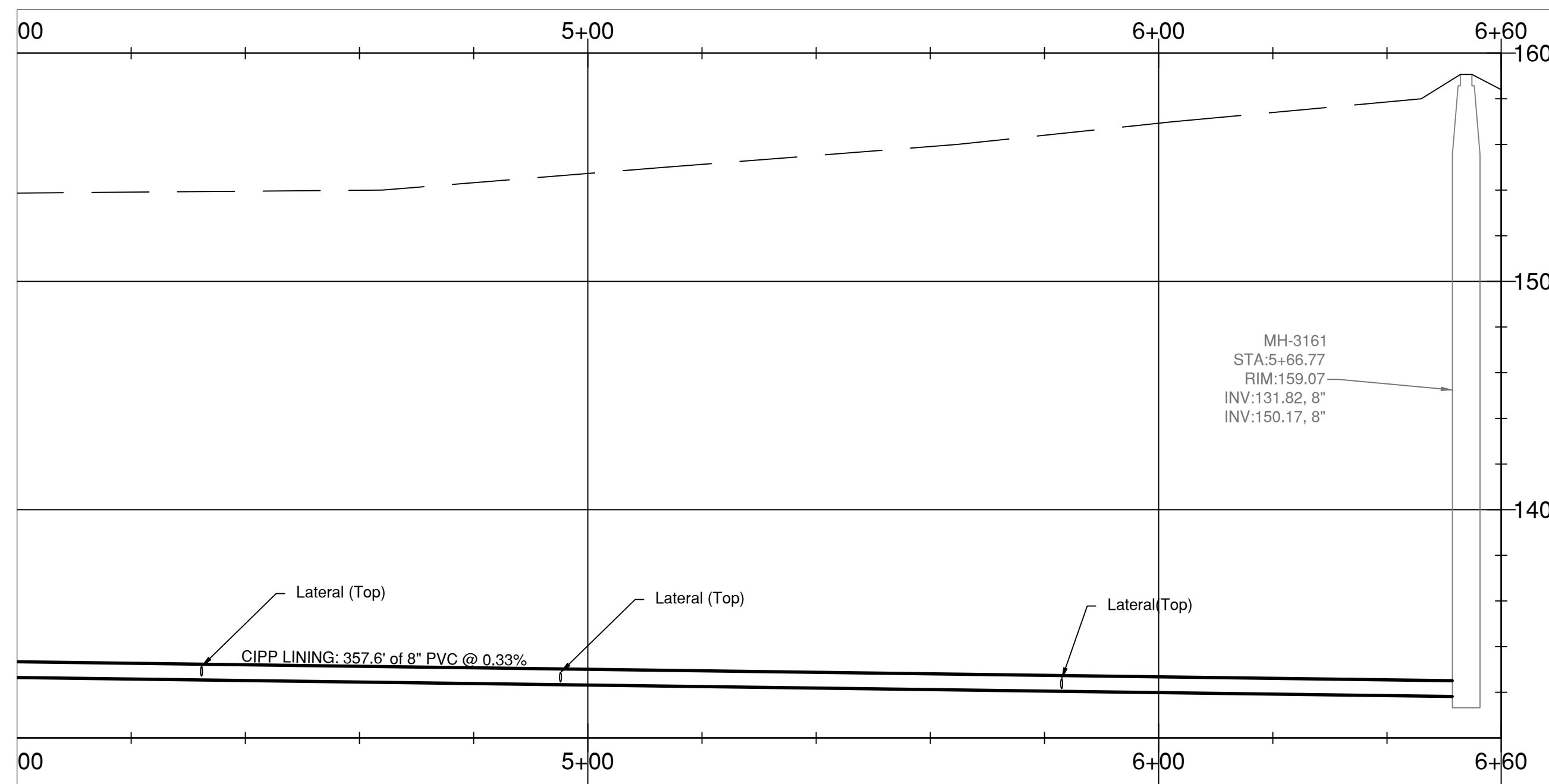

CITY OF MILWAUKIE
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 MILWAUKIE, OR 97206
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WASTEWATER SYSTEM IMPROVEMENTS
 CONSTRUCTION PLAN
 Harrison Street

PROJECT NO.:	CIP 2021-X39	CONTRACT NO.:	SS24	DATE:	01/2023	SHEET NO.:	13 OF 20
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PLAN - HARRISON STREET
STA 04+00 TO 06+60



PROFILE - HARRISON STREET
STA 04+00 TO 06+60
 HORIZONTAL SCALE 1" = 20'
 VERTICAL SCALE 1" = 5'

KEYED NOTES:

- ① - INSTALL AND CONNECT SANITARY MANHOLE PER OSD RD336, RD338, RD344, RD345 AND RIMRISER DETAILS WITH COM DWG. 301 LID
- ② - INSTALL AND CONNECT 8" SANITARY MAIN PER OSSC 00445, COM DWG. 304, 305, AND 510
- ③ - CONNECT TO EXISTING MANHOLE PER OSD RD 345
- ④ - INSTALL NEW STOP BAR PER OSD TM503
- ⑤ - DECOMMISSION MANHOLE PER OSSC 00490
- ⑥ - LINE SANITARY SEWER PIPE PER OSSC 00412

*** CONSTRUCTION NOTE: SEE BID DOCUMENT FOR SUBGRADE SOIL TYPES ON KENT STREET.

SANITARY SEWER NOTES:

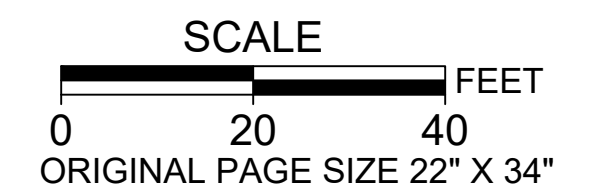
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STREET NOTES:

- 1. 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.
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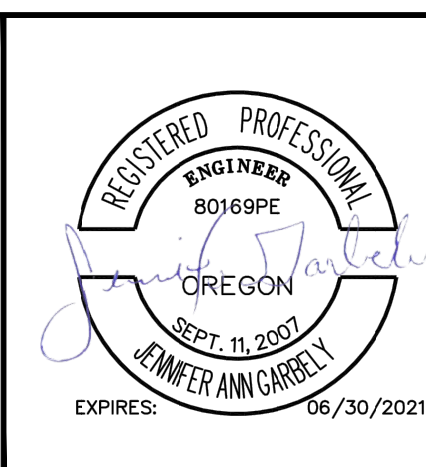
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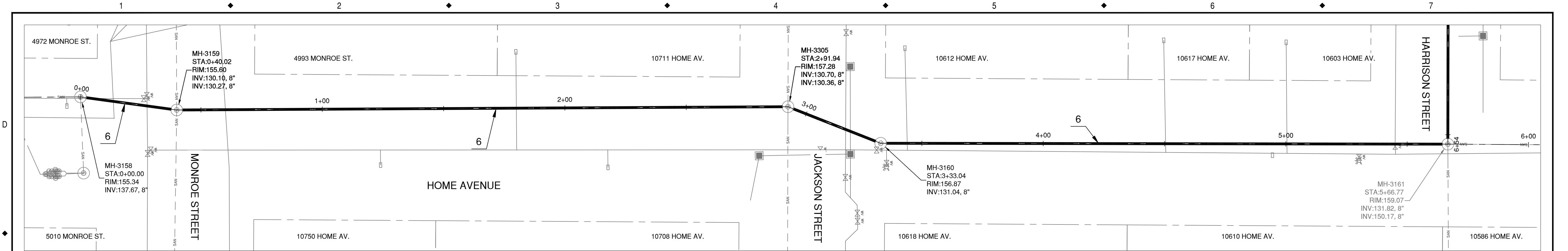
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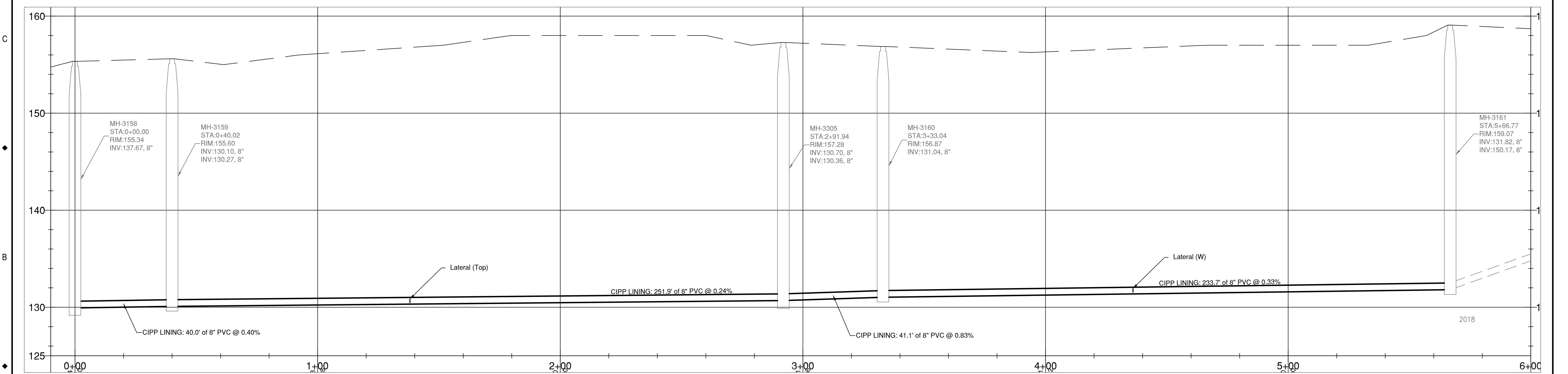

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WASTEWATER SYSTEM IMPROVEMENTS
 CONSTRUCTION PLAN
 Harrison Street

PROJECT NO.:	CIP 2021-X39	CONTRACT NO.:	SS25	DATE:	01/2023	SHEET NO.:	14 OF 20
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PLAN - HOME AVENUE
STA 00+00 TO STA 06+00



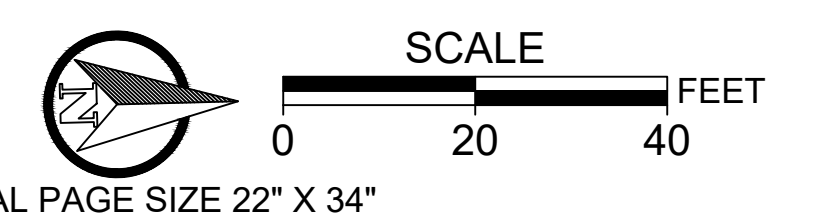
PROFILE - HOME AVENUE
STA 00+00 TO STA 06+00
HORIZONTAL SCALE 1" = 20'
VERTICAL SCALE 1" = 5'

- KEYED NOTES:**
- [1] - INSTALL AND CONNECT SANITARY MANHOLE PER OSD RD336, RD338, RD344, RD345 AND RIMRISER DETAILS WITH COM DWG. 301 LID
 - [2] - INSTALL AND CONNECT 8" SANITARY MAIN PER OSSC 00445, COM DWG. 304, 305, AND 510
 - [3] - CONNECT TO EXISTING MANHOLE PER OSD RD 345
 - [4] - INSTALL NEW STOP BAR PER OSD TM503
 - [5] - DECOMMISSION MANHOLE PER OSSC 00490.45
 - [6] - LINE SANITARY SEWER PIPE PER OSSC 00412

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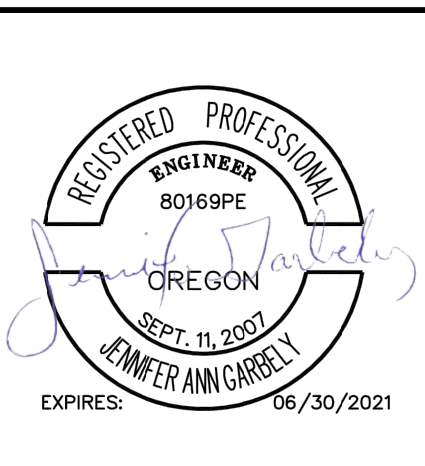
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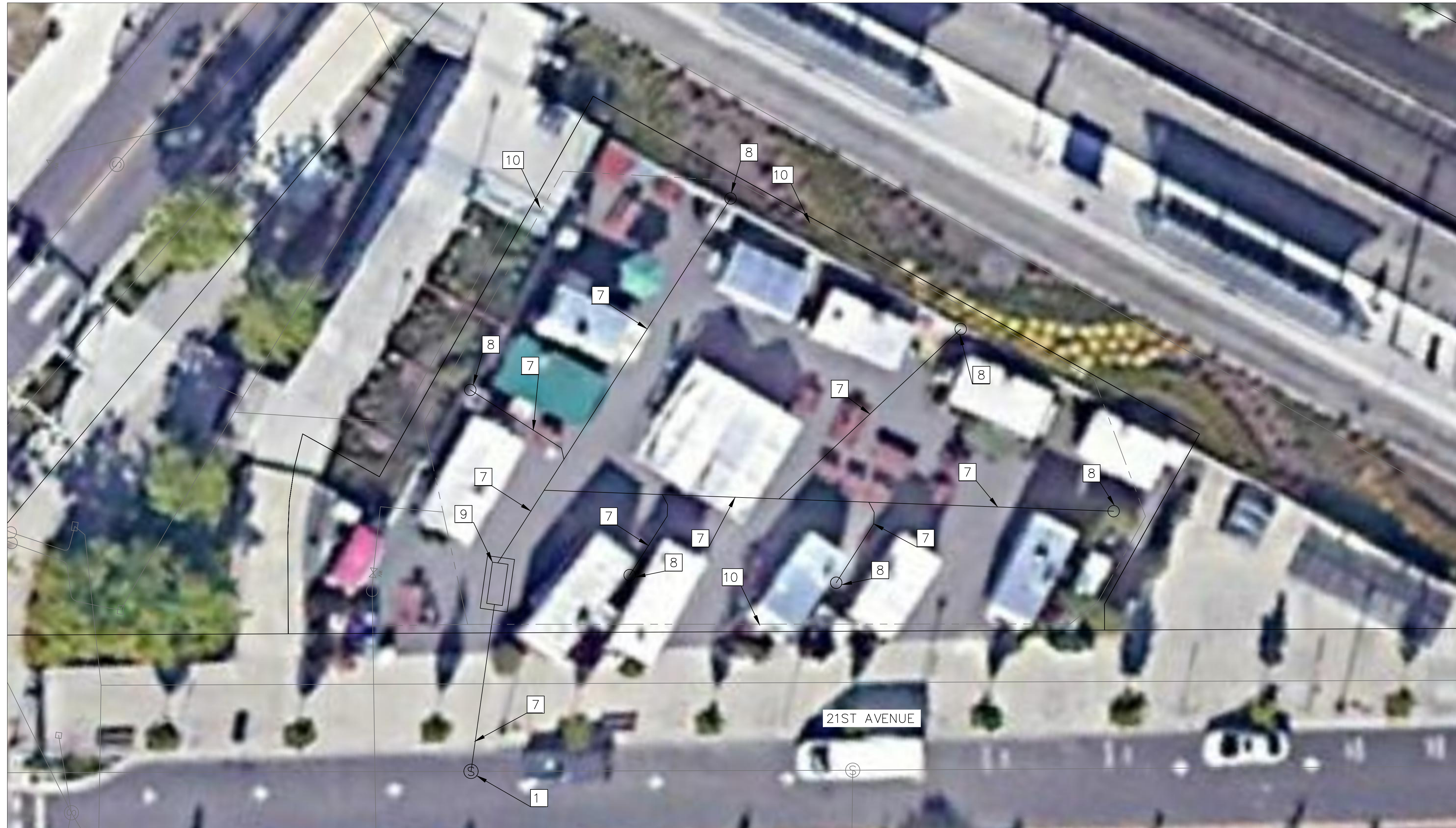
DESIGNED	BB	01/2023
DRAFTED	BB	01/2023
CHECKED		
APPROVED		




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 6101 SE JOHNSON CREEK BLVD.
 MILWAUKIE, OR 97206
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WASTEWATER SYSTEM IMPROVEMENTS
 CONSTRUCTION PLAN
 Home Avenue

PROJECT NO.:	CIP 2021-X39	CONTRACT NO.:	SS26	DATE:	01/2023	SHEET NO.:	15 OF 20
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PLAN - Milwaukie Station Food Cart Pod
 11301 SE 21st Av

- KEYED NOTES:**
- 1 - INSTALL AND CONNECT SANITARY MANHOLE PER OSD RD336, RD338, RD344, RD345 AND RIMRISER DETAILS WITH COM DWG. 301 LID
 - 2 - INSTALL AND CONNECT 8" SANITARY MAIN PER OSSC 00445, COM DWG. 304, 305, AND 510
 - 3 - CONNECT TO EXISTING MANHOLE PER OSD RD 345
 - 4 - INSTALL NEW STOP BAR PER OSD TM503
 - 5 - DECOMMISSION MANHOLE PER OSSC 00490
 - 6 - LINE SANITARY SEWER PIPE PER OSSC 00412
 - 7 - INSTALL AND CONNECT 4" PVC SANITARY LINE PER OSSC 00445, COM DWG. 304, 305, AND 510
 - 8 - INSTALL 4" PVC SANITARY CLEANOUT WITH A HATCH LID APPROVED BY ENGINEER PER OSD RD362 AS MODIFIED IN THESE PLANS.
 - 9 - INSTALL SCHIER GB-250 GREASE INTERCEPTOR OR APPROVED EQUAL WITH TRAFFIC RATED LIDS IN A 5'X9' CONCRETE PAD
 - 10 - PROTECT EXISTING 2' DEEP X 2' SPACED WATER & ELECTRIC LINES

- MILWAUKIE STATION FOOD CART POD NOTES:**
1. BUSINESSES ARE EXPECTED TO BE OPEN AND OPERATING AS USUAL. PROVIDE PUBLIC ACCESS.
 2. IF A TEMPORARY CLOSURE IS NECESSARY, COORDINATE THROUGH THE ENGINEER A MINIMUM OF 7 CALENDAR DAYS IN ADVANCE.
 3. THE ENGINEER MAY PERMIT NIGHT WORK TO EASE THE IMPACT ON THE BUSINESSES ONSITE.
 4. FOOD CARTS ARE NOT EXPECTED TO BE MOVED FOR CONSTRUCTION
 5. TRENCH RESURFACING WILL INCLUDE RETURNING ASPHALT, SIDEWALK, AND GRAVEL TO PREEXISTING CONDITIONS.
 6. IF COVERS FOR SEATING AREAS ARE TO BE DISASSEMBLED IN PART OR IN FULL SO WORK MAY PROCEED, THEY WILL BE REASSEMBLED INCIDENTAL TO OTHER BID ITEMS.

- SANITARY SEWER NOTES:**
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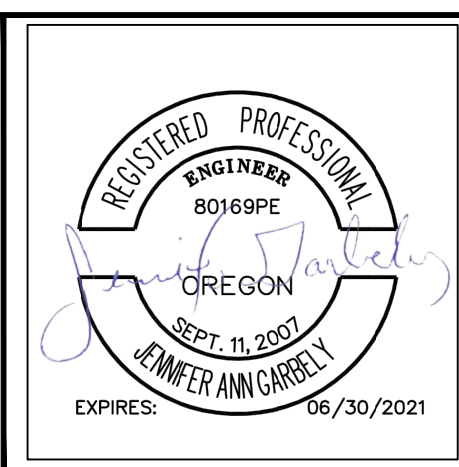
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APPROVED		DATE

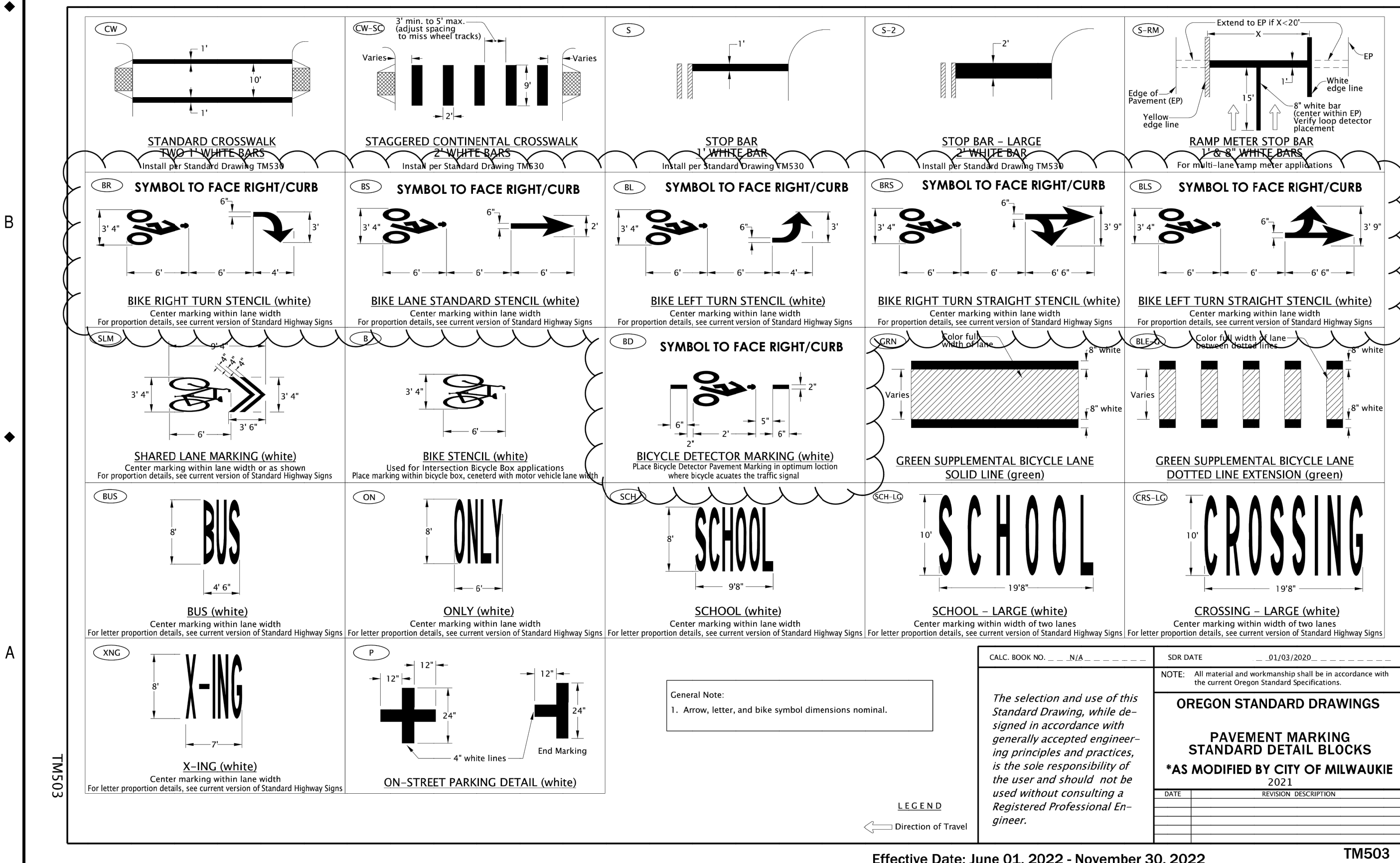
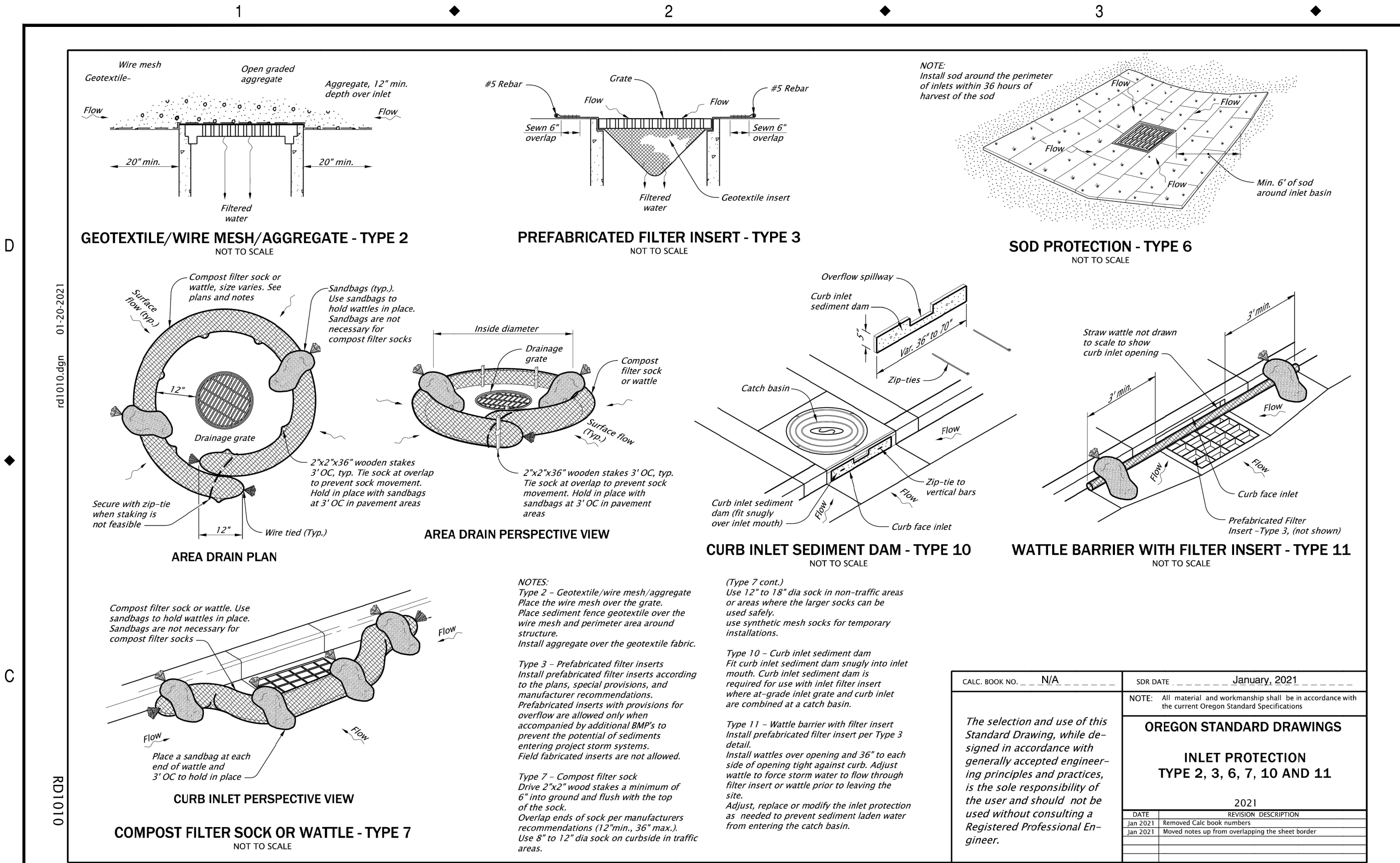


CITY OF MILWAUKIE
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WASTEWATER SYSTEM IMPROVEMENTS

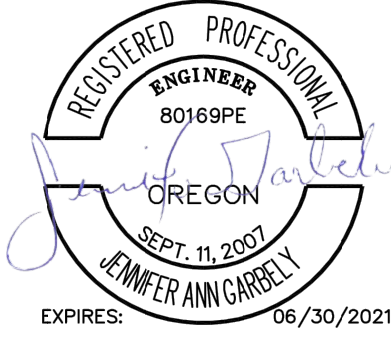
CONSTRUCTION PLAN
 Milwaukie Station Food Cart Pod

PROJECT NO.: CIP 2021-X39	CONTRACT NO.: SS27	DATE: 01/2023	SHEET NO.: 16 OF 20
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NO.	DATE	BY	REVISIONS

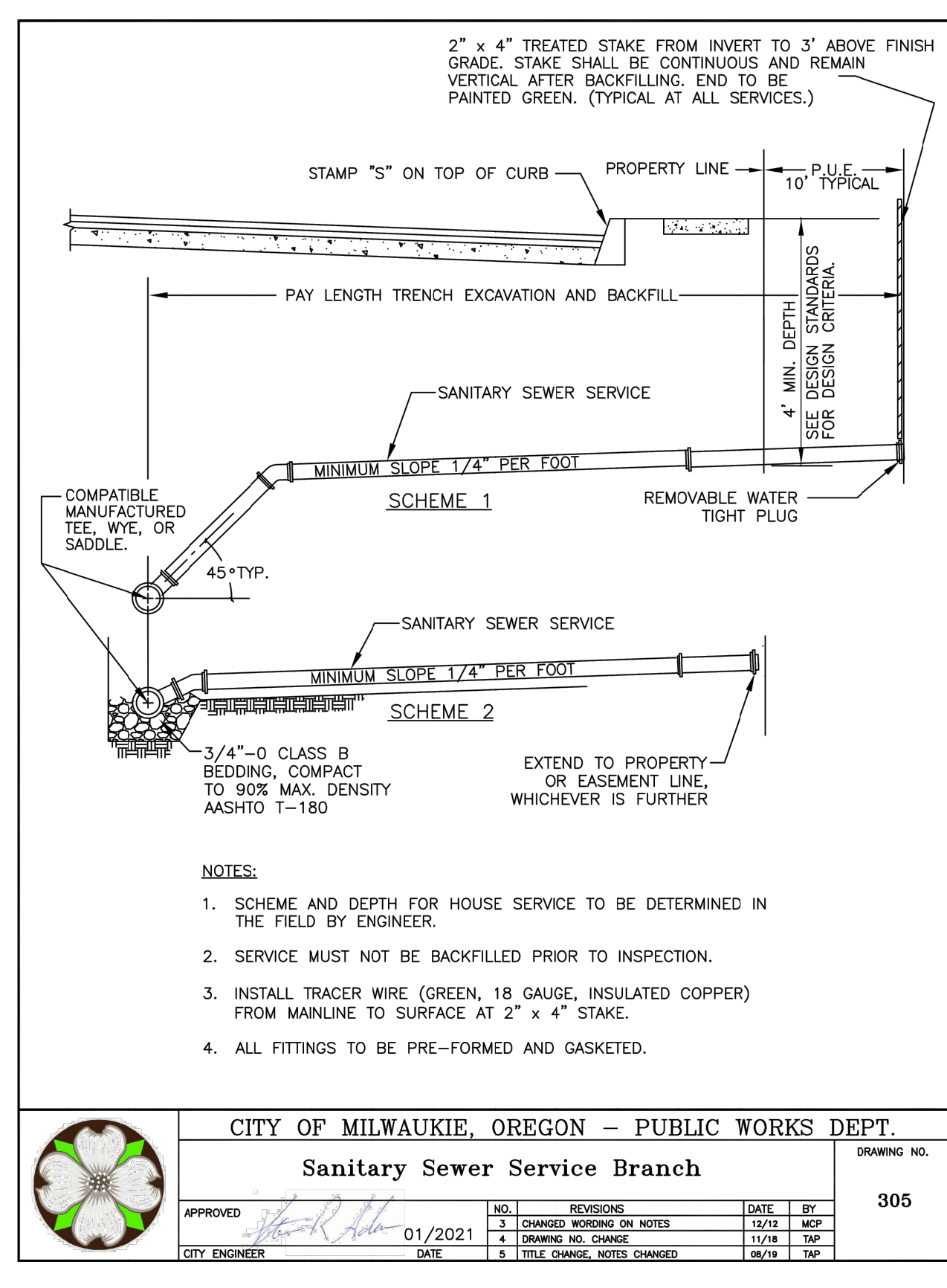
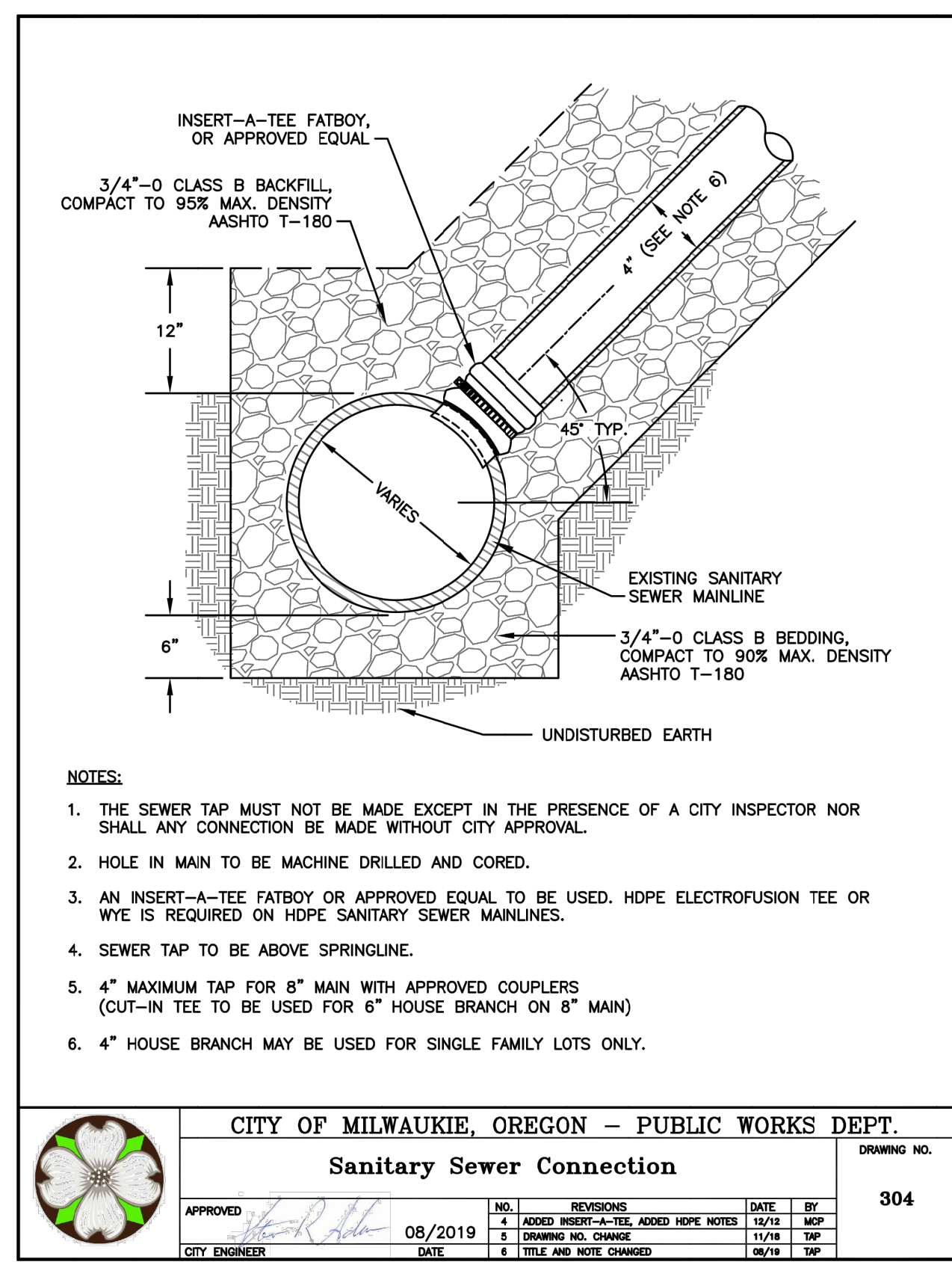
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BB	DRAFTED	01/2023	DATE
	CHECKED		DATE
	APPROVED		DATE



CITY OF MILWAUKIE

6101 SE JOHNSON CREEK BLVD.
MILWAUKIE, OR 97206

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NO.	DATE	BY	REVISIONS

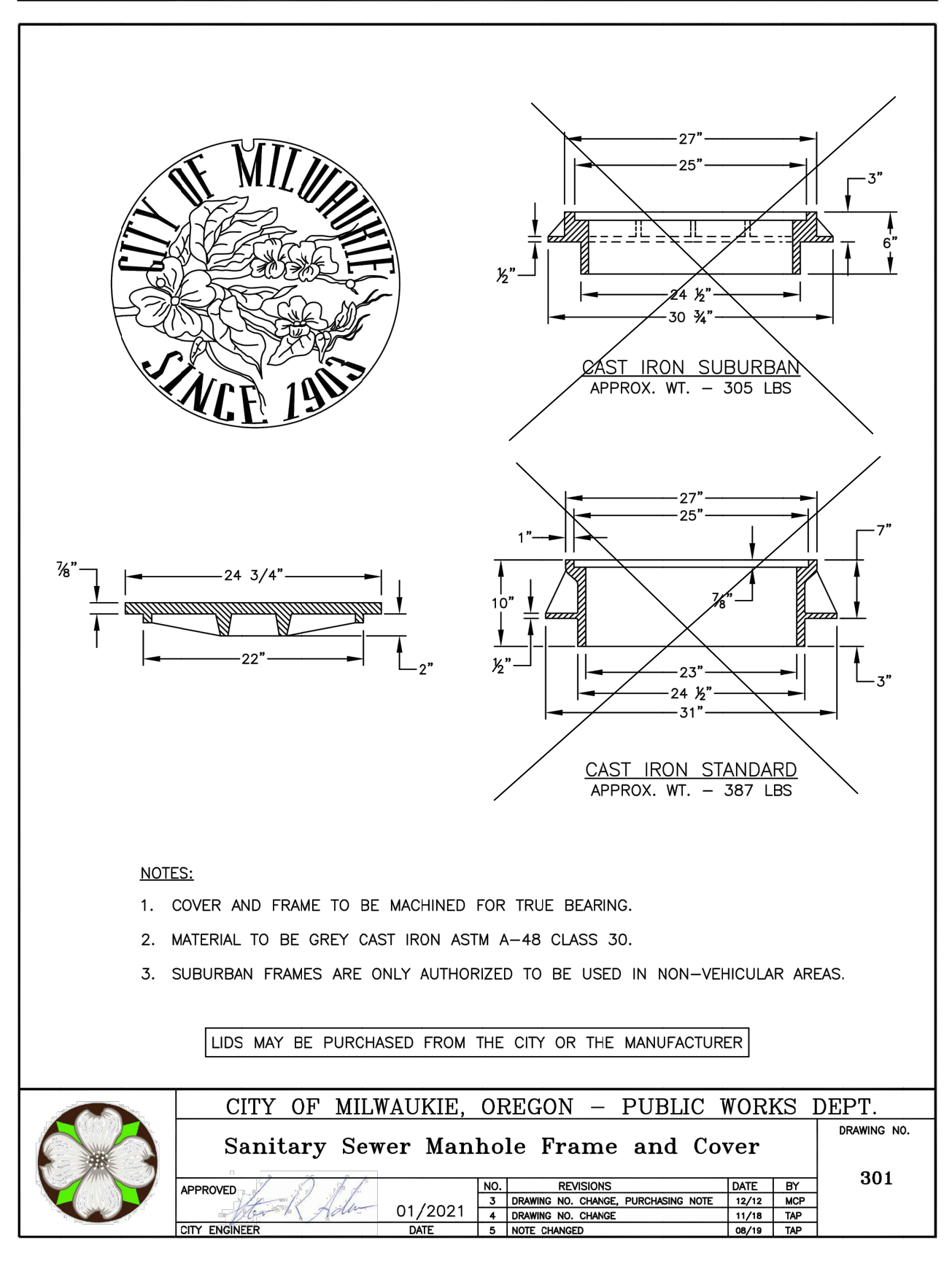
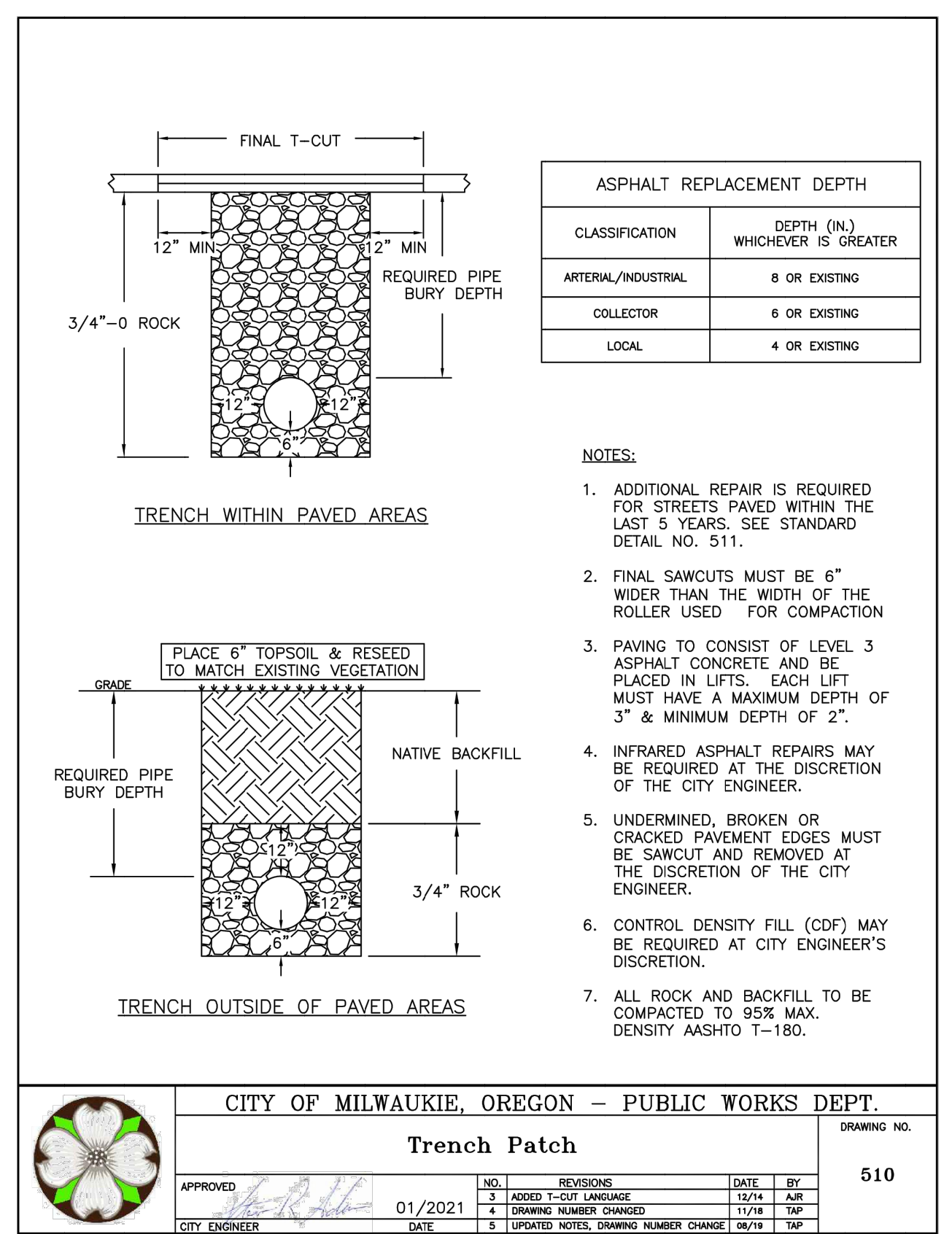
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BB	DRAFTED	01/2023	DATE
	CHECKED		DATE
	APPROVED		DATE



CITY OF MILWAUKIE

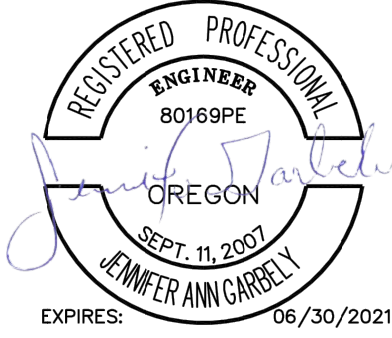
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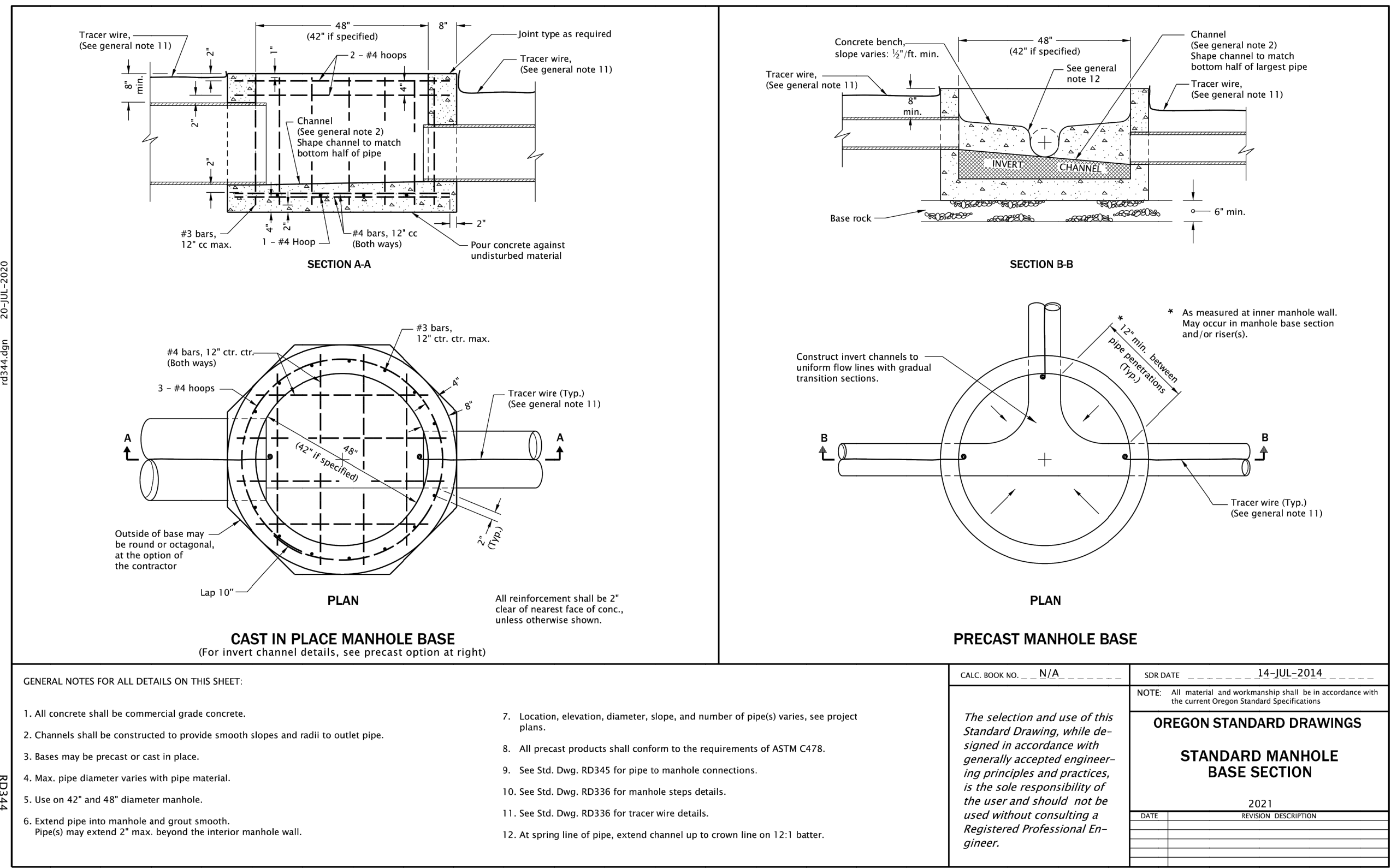


CITY OF MILWAUKIE

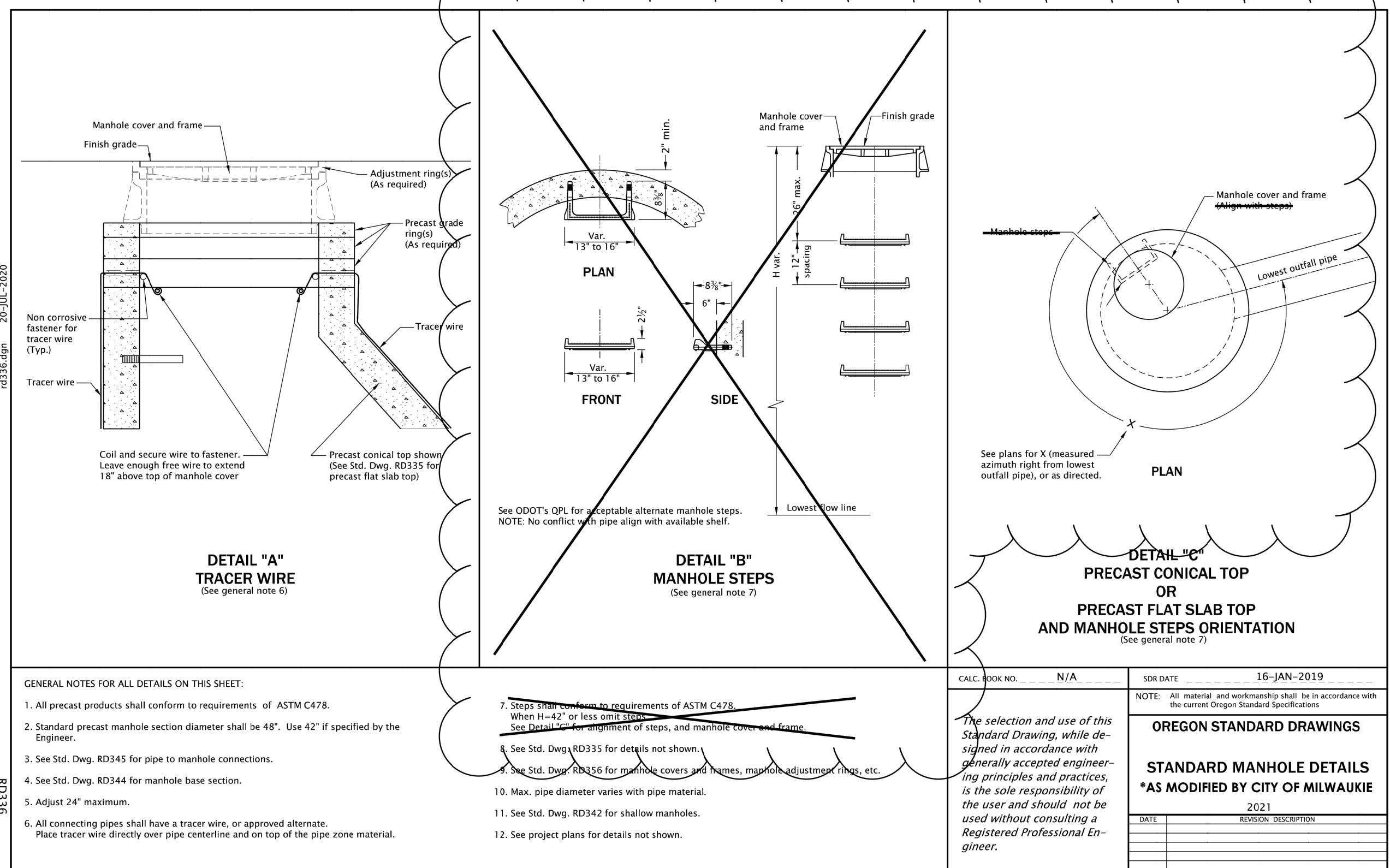
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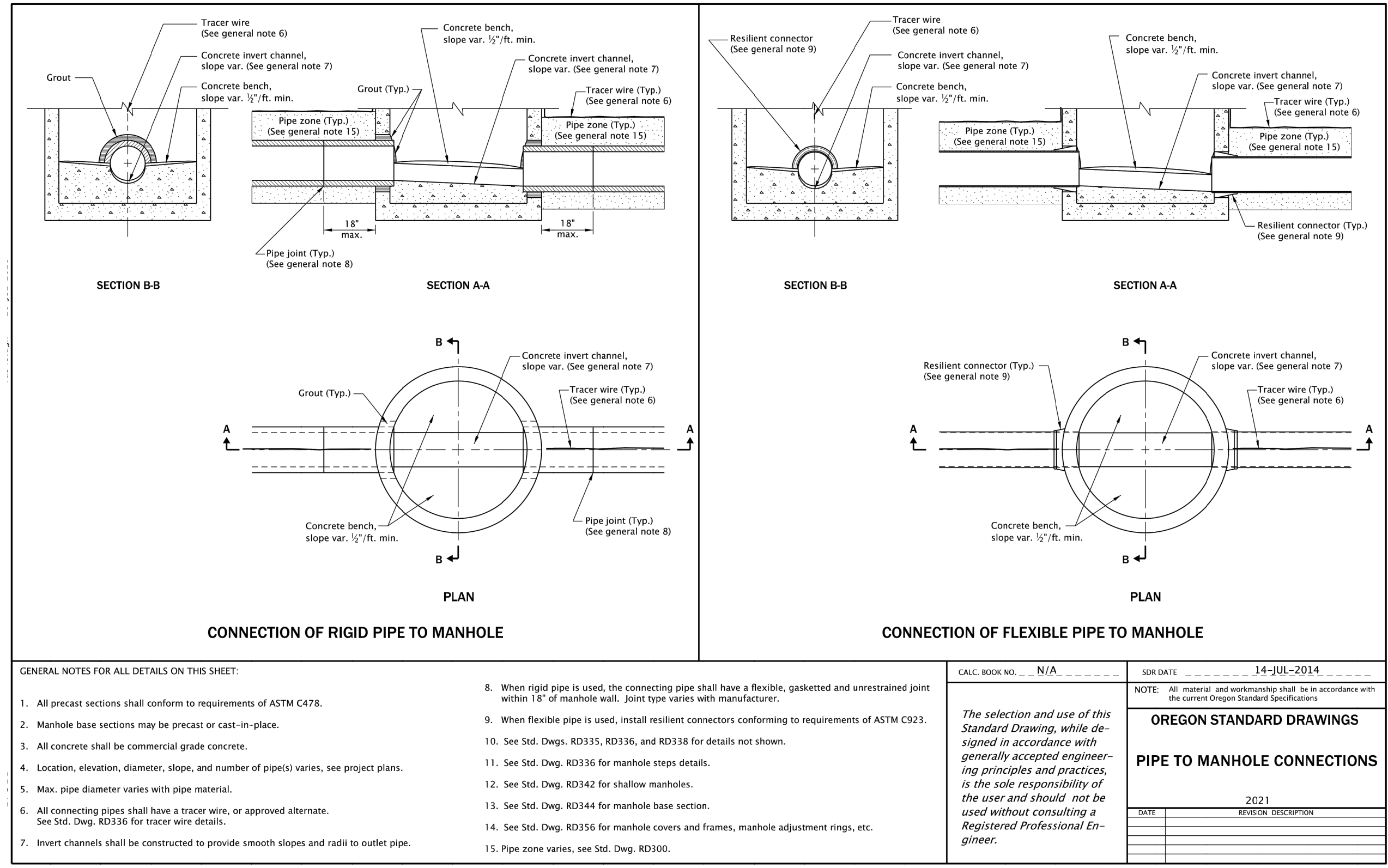
WASTEWATER SYSTEM IMPROVEMENTS
CONSTRUCTION DETAILS



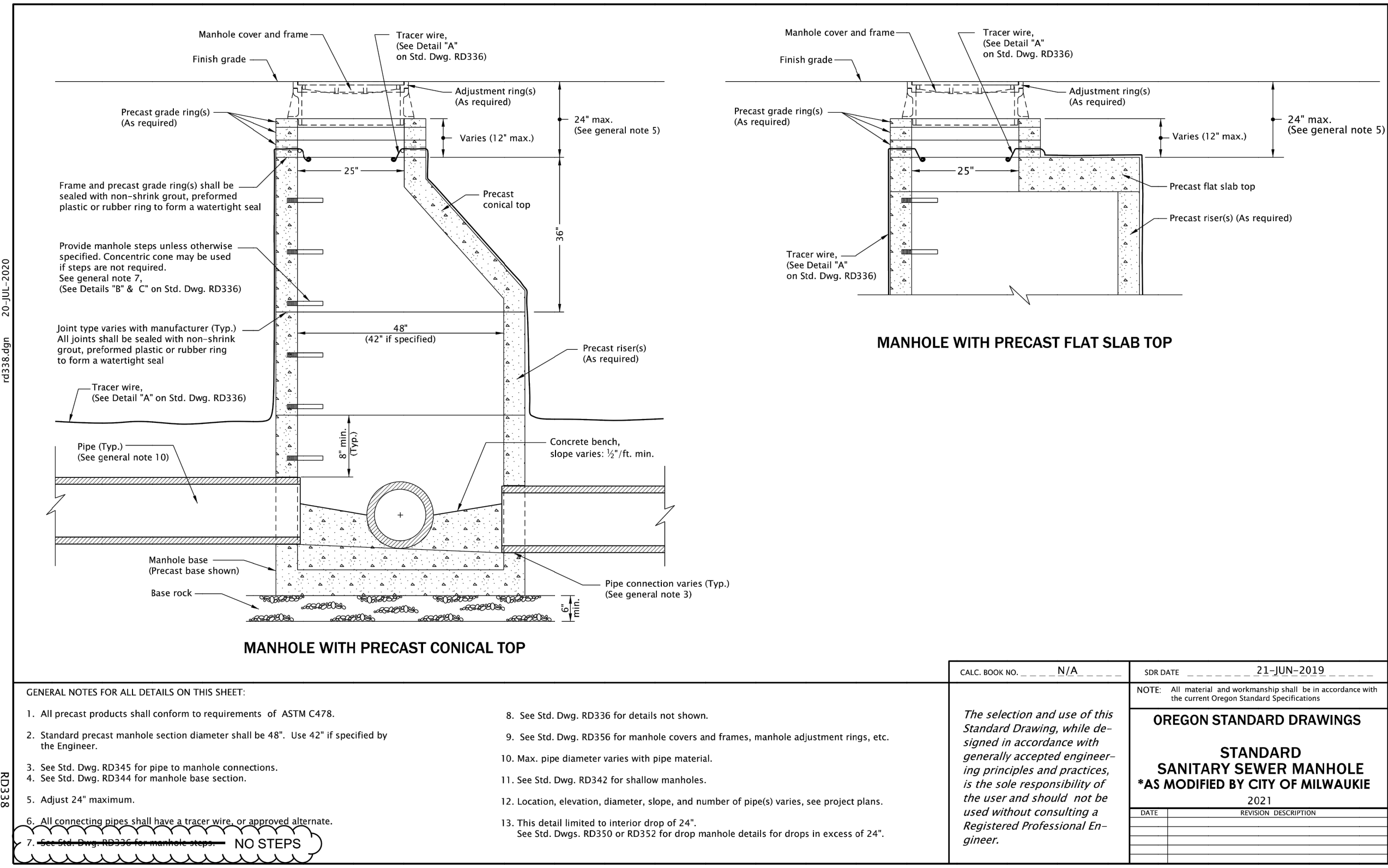
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Effective Date: June 1, 2022 - November 30, 2022 RD336



Effective Date: December 1, 2021 - May 31, 2022 RD345



Effective Date: June 1, 2022 - November 30, 2022 RD338

NO.	DATE	BY	REVISIONS

BB DESIGNED 01/2023
 BB DRAFTED 01/2023
 CHECKED DATE
 APPROVED DATE

REGISTERED PROFESSIONAL ENGINEER
 80189PE
 JENNIFER ANN CARROLL
 SEPT. 11, 2007
 EXPIRES: 06/30/2021

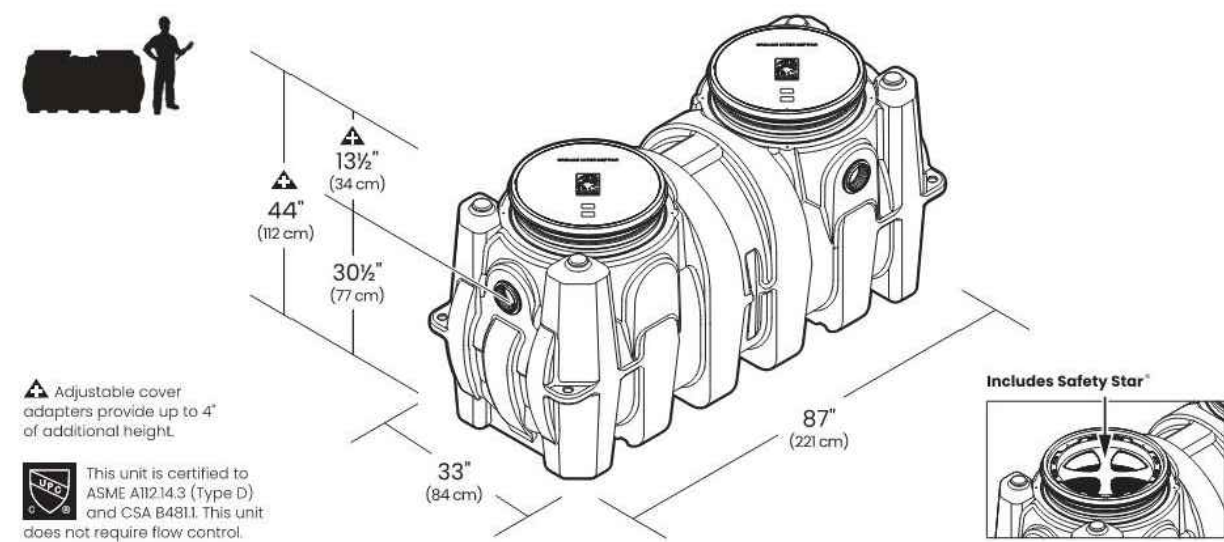
CITY OF MILWAUKIE
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WASTEWATER SYSTEM IMPROVEMENTS

CONSTRUCTION DETAILS

PROJECT NO.: CIP 2021-X39 CONTRACT NO.: SS29 DATE: 01/2023 SHEET NO.: 18 OF 20

Attachment 3
SPECIFICATION AND SUBMITTAL
GB-250 100/200 GPM Great Basin™ Indoor/Outdoor Grease Interceptor



SUBMITTAL

Standard
 Location: indoor/outdoor
 Installation: Above/below grade
Flow Rates / Grease Capacities:
 100 GPM (6.3 L/s) / 1895 lbs. (860 kg) 280 gal. (884 L)
 200 GPM (12.6 L/s) / 3789 lbs. (1720 kg) 560 gal. (1771 L)
Removal Efficiency at the Rated Capacity: 99.7%
Solids Capacity: 69 gal. (261 L)
Liquid Capacity: 277 gal. (1048 L)
Weight: 376 lbs. (171 kg)
Connections: 1" FPT with 4" plain end adapters, single inlet and triple outlet.
Covers: Cast iron covers, pickable 24" gas/water tight, 1" x 20" raised, proof-load tested to 46,000 lbs.
Access Restrictor: Safety Star™ (450 lb. rating) built into each cover adapter.
CA2 Integral membrane clamping collar kit

Options

- 6" plain end/inlet/outlet (straight-through)
- 6" MP1 inlet/outlet (seamless steel, straight-through)
- FO (fixed outlet)
- CA2H2 Composite covers, tested 24" gas/water tight, traffic load rated for 18,000 lbs.

Accessories

- FC2 (x2) 1/4" - 3/4" field cut riser
- FC2 (x4) 3/4" - 64" field cut risers with dual pumpout port connections
- CA2 adapter for 24" corrugated pipe riser
- PP3 Pumpout port
- AK1 High water anchor kit
- ATD Cover adapter tie-down kit
- AGS1 Above grade support kit
- PLAIN-EA-24 2" plain and fitting
- PLAIN-EA-34 3" plain and fitting
- FPT-EA-24 4" x 3" FPT fitting
- FPT-EA-28 3" x 2" FPT fitting
- CA2 Integral membrane clamping collar kit

Approval

Signature: _____ Date: _____ Company: _____
 Specifying Engineer: _____ Engineering Firm: _____

SCHIER MODEL NUMBER: **GB-250** DESCRIPTION: 100/200 GPM Polyethylene Grease Interceptor
 PART #: 4055-001-02 DWG BY: B. Korner DATE: 8/28/2020 REV: ICD
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SPECIAL PRECAUTIONS
 For Schier Grease Interceptor Installations - Failure to follow this guidance voids your warranty.
WARNING! DO NOT AIR TEST UNIT OR RISER SYSTEM! Doing so may result in property damage, personal injury or death.
CAUTION! Do not install this unit in any manner except as described in these instructions.

Installation Instructions
 Installation instructions and additional components are included with the interceptor. Read all instructions prior to installation. This interceptor is intended to be installed by a licensed plumber in conformance with all local codes.

Install interceptor as close as possible to fixtures being served
 Provide at least 16" clearance above unit for routine maintenance.

High Temperature Kitchen Water
 If water is entering the interceptor at excessive temperature (over 150°F), a drain water tempering valve (DWT) and approved backflow prevention assembly must be installed. Most state and local plumbing codes prohibit water above 150°F being discharged into the sanitary sewer. Water above 150°F will weaken or deform PVC Schedule 40 pipe, poly drainage fixtures like interceptors and erode the coating of cast iron (leading to eventual failure).

ODOR ALERT!
 Interceptor is not a sewer gas trap. All upstream fixtures must be trapped.

ODOR ALERT!
 Interceptor is not a sewer gas trap. All upstream fixtures must be trapped.

DO NOT USE CAST IRON COVERS IN ABOVE GRADE OR INDOOR INSTALLATIONS
 Use composite cover, CA2H2 for above grade installations.

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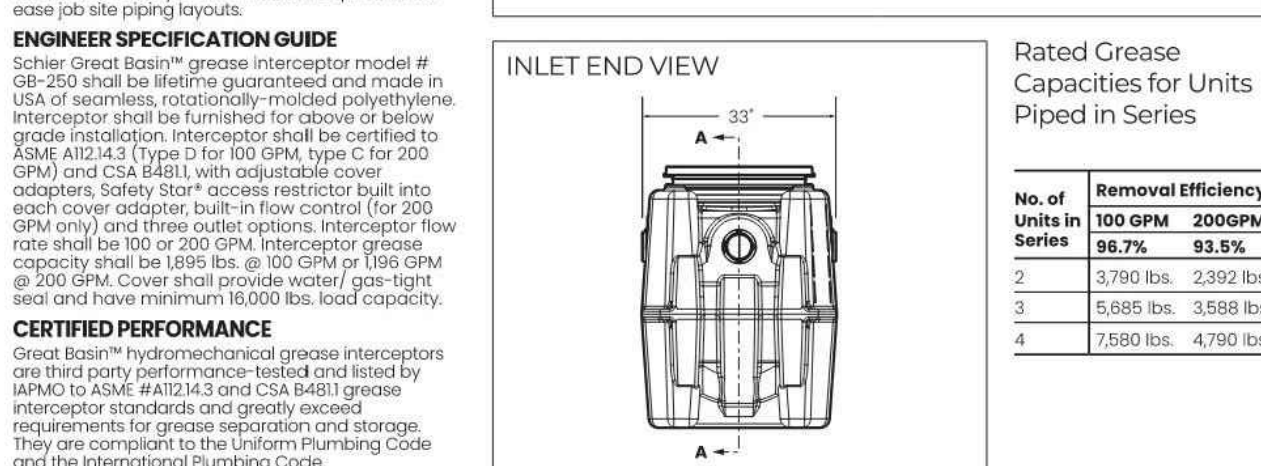
SPECIFICATIONS

NOTES
 1. 4" FPT with 4" plain end adapters, single inlet and triple outlet.
 2. Unit weight - w/ cast iron covers: 376 lbs.; w/composite covers: 268 lbs. (For wet weight add 230 lbs.)
 3. Maximum operating temperature: 150°F continuous
 4. Capacities - Liquid: 277 gal.; @100 GPM - Grease: 1895 lbs.; @200 GPM - Grease: 3789 lbs.; Solids: 69 gal.
 5. This unit does not require flow control for 100 GPM applications. Built-in flow control is provided for 200 GPM applications. For series installations, only install flow control on the first unit in the series if necessary.
 6. For gravity drainage applications only.
 7. Do not use for pressure applications.
 8. Cover placement allows full access to tank for proper maintenance.
 9. Vent not required unless per local code.
 10. Engineered inlet and outlet diffusers are removable to inspect / clean piping.
 11. Integral air relief / anti-siphon / sampling access.
 12. Adjustable cover adapters provide up to 4" of additional height.
 13. Fixed outlet models (-FO) have inlet and outlet permanently welded at the factory in the straight-through (6") position.
 14. Flow rates are based on 2-minute drain time.
 15. Safety Star™ access restrictor built into each cover adapter, prevents accidental entry to tanks (450 lb. rating).

DIFFUSION FLOW TECHNOLOGY
 The inlet diffuser reduces turbulence, creates laminar flow and allows the entire tank volume to be utilized for efficient grease separation and minimal disturbance to existing grease and sediment layers. The inlet diffuser can be attached to any of the three inlets provided to ease job site piping layouts. The integral air relief / anti-siphon at the diffuser top allows pressure stabilization within the unit during operation. The outlet diffuser can be easily attached to any of the three outlets provided to ease job site piping layouts.

ENGINEER SPECIFICATION GUIDE
 Schier Great Basin™ grease interceptor model # GB-250 shall be meeting guaranteed and made in USA of seamless, rotationally-molded polyethylene. Interceptor shall be furnished for above or below grade installation. Interceptor shall be certified to ASME A12.14.3 (Type D for 100 GPM, Type C for 200 GPM) and CSA B481 with adjustable cover adapters. Safety Star™ access restrictor built into each cover adapter built-in flow control (for 200 GPM only) and three outlet options. Interceptor flow rate shall be 100 or 200 GPM. Interceptor grease capacity shall be 1895 lbs. @ 100 GPM or 3789 lbs. @ 200 GPM. Cover shall provide water / gas-tight seal and have minimum 18,000 lbs. load capability.

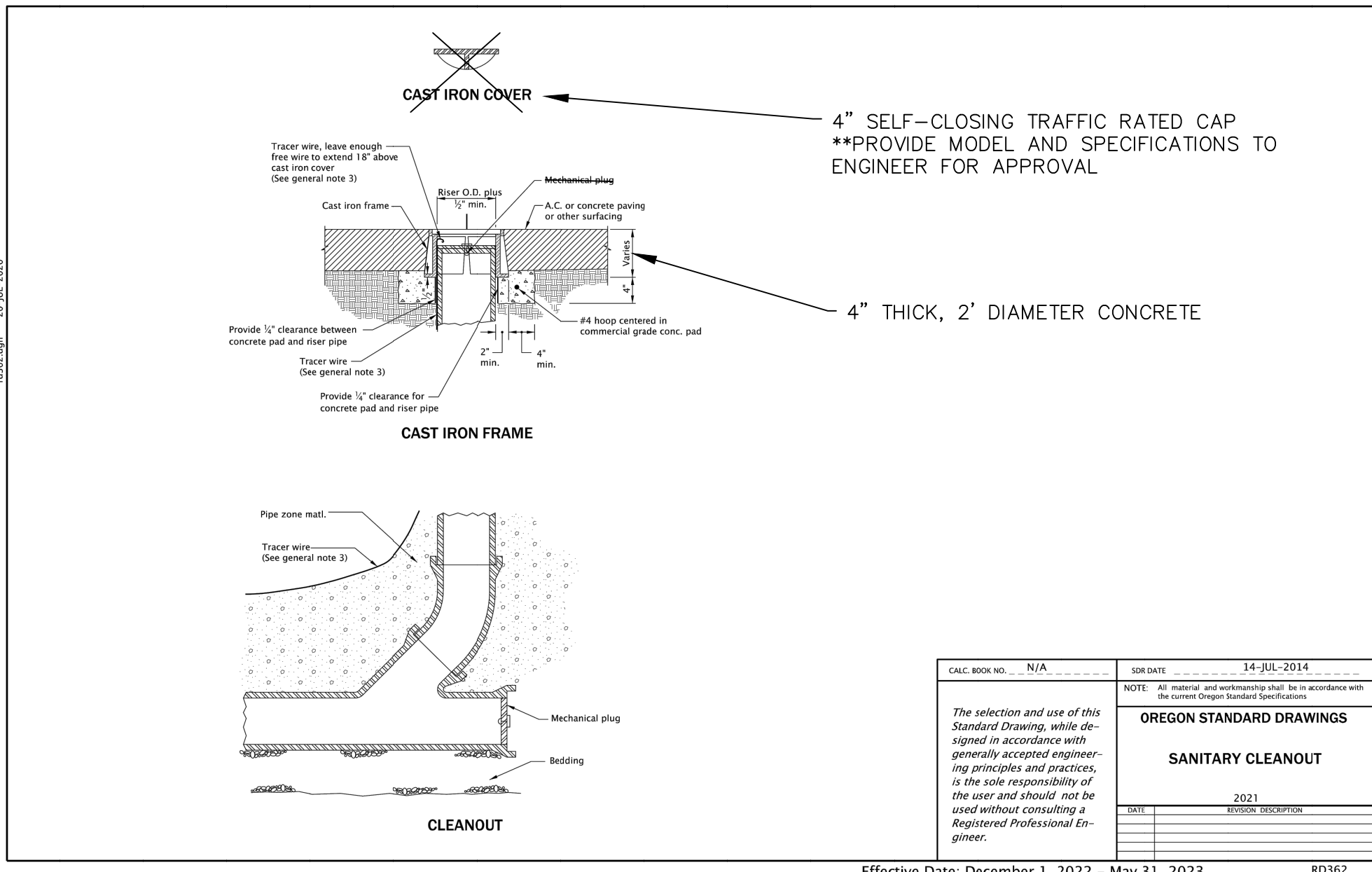
CERTIFIED PERFORMANCE
 Great Basin™ hydromechanical grease interceptors are third party performance tested and listed by IAPMO to ASME #A12.14.3 and CSA B481 grease interceptor standards and greatly exceed requirements for grease separation and storage. They are compliant to the Uniform Plumbing Code and the International Plumbing Code.



Rated Grease Capacities for Units Piped in Series

No. of Units in Series	100 GPM	200 GPM
1	1895 lbs. 860 kg	3789 lbs. 1720 kg
2	3790 lbs. 1720 kg	7578 lbs. 3440 kg
3	5685 lbs. 2580 kg	11367 lbs. 5160 kg
4	7580 lbs. 3440 kg	15156 lbs. 6880 kg

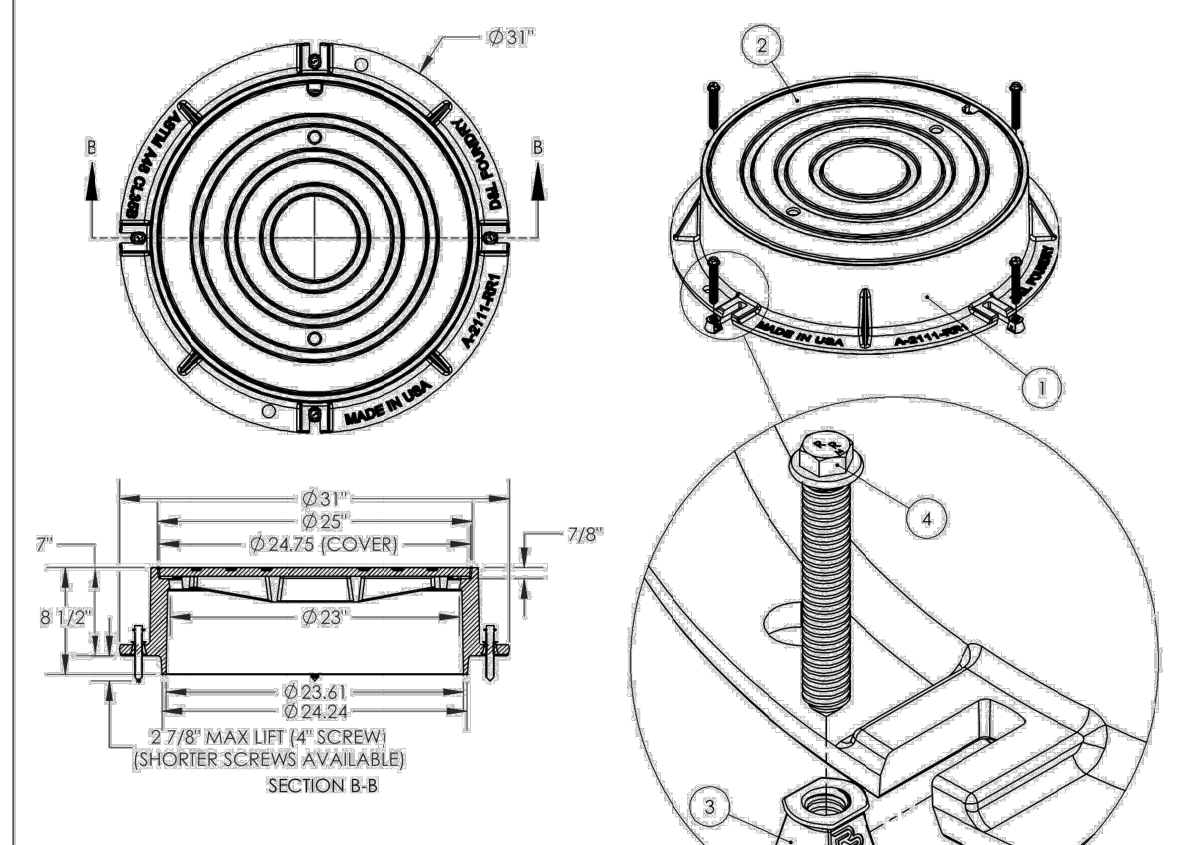
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CALC BOOK NO.: N/A DATE: 14-JUL-2014
 NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Drawings.
OREGON STANDARD DRAWINGS
SANITARY CLEANOUT
 DATE: 2021
 SCALE: 3/8"=1'-0"
 Effective Date: December 1, 2022 - May 31, 2023 R0362

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	A-2111-RR1	RIMRISER 7" RING	1
2	COW_DWC_301	25" COVER	1
3	RR-0001	5/8" SLOT NUT INSERT	4
4	RR-0058-4	5/8" X 4" JACK SCREW / 5/8" HEX HEAD	4

CONTACT SUPPLIER FOR COVER OPTIONS (EX: BOLT DOWN WATER TIGHT)



NOTES:
 1. NO BRIMS REQUIRED. ADJUST SCREWS TO MEET FINISHED GRADE (8 TURNS = 1" ADJUSTMENT).
 2. CASTING ASSEMBLY-AASHIO M-300 CERTIFIED-H-20 OR "TRAFFIC-RATED"
 3. CASTINGS: GRAY IRON CONFORMS TO ASTM A48 C15.8
 4. SCREWS: ZINC-PLATED, WILD STEEL CONFORMS TO ASTM A1018
 5. NUTS: ZINC ALLOY CONFORMS TO ASTM A194
 6. GENERALLY, FILL AND PACK GAP BETWEEN FRAME AND SUPPORTING BASE WITH NON-SHRINK GROUT AND FINISH SMOOTH/FLUSH WITH INTERIOR AND EXTERIOR OF ADJOINING SURFACES. REFER TO LOCAL SPECIFICATIONS.
 7. U.S. AND FOREIGN PATENTS PENDING. ALL PARTS MADE IN USA.
 8. USE ONLY GENUINE RIMRISER PARTS.

STANDARD DETAIL
RIMRISER ADJUSTABLE 7" STANDARD MANHOLE RING & 25" COVER
 DRAWN BY: DAP DATE: 07/21/2020
 APPROVED BY: AMB DATE: 07/21/2020
 CHECKED BY: AMB DATE: 07/21/2020
 SCALE: SD-A-2111-RR1
 NOT TO SCALE

SPECIAL PRECAUTIONS
 For Schier Grease Interceptor Installations - Failure to follow this guidance voids your warranty.

Secure Cover Adapters
 Cover adapters must be secured to base units in above grade installations with increased head pressure conditions. Use cover adapter tie-down kit model ATD.

High Water Table Installations
 Interceptors and risers are not designed to withstand water table height in excess of the top of the unit when buried (see figure). If it is possible for this to occur, install the interceptor and riser in a water-tight concrete vault or backfill with concrete or flowable fill (wet concrete and flowable backfill should be poured in stages to avoid crushing the interceptor). At risk areas include, but are not limited to tidal surge areas, floodplains and areas that receive storm water. Great Basin™ models that are direct buried in high water table scenarios must be installed with an anchor kit. Model GB-250 uses model AK anchor kit.

Hydrostatic/Pressure Slabs
 When installed under a hydrostatic slab (slab designed to withstand upward lift, usually caused by hydrostatic pressure) interceptor must be enclosed in a watertight concrete vault.

DO NOT COMPACT BACKFILL MECHANICALLY
 Compact by hand only.

Below Grade Installation Slab Requirements
 A concrete slab to finished grade with rebar is required when installing interceptor below grade.

Installations with Risers
 3 FC2 Risers Max
 Max Water Level
 Corrugated Riser Pipe Requirements

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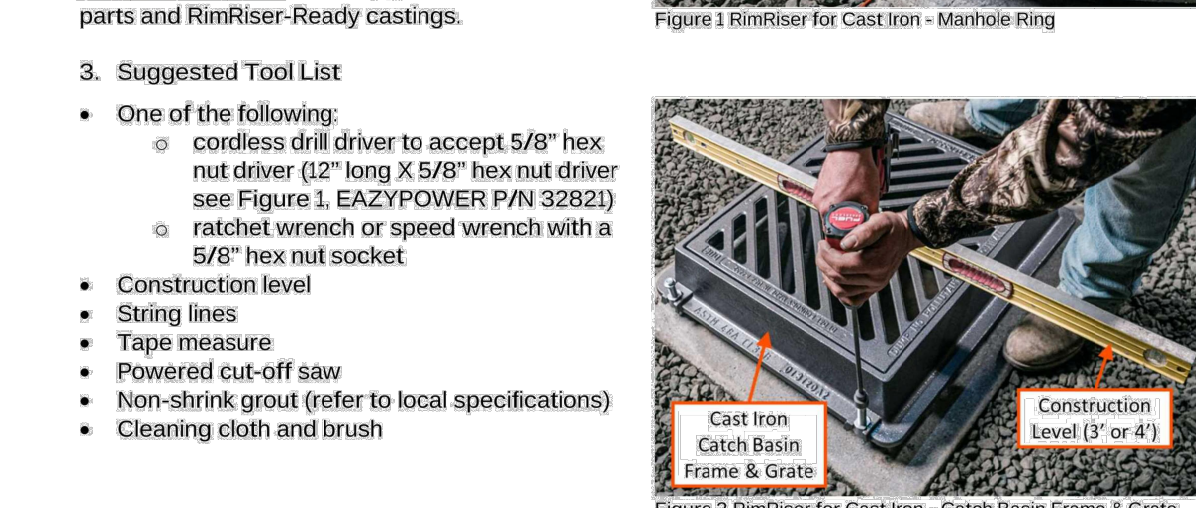
RIMRISER Adjustable Municipal Casting Installation Guide

1. Introduction
 1.1 RIMRISER™ hardware is intended for use with RIMRISER-Ready municipal castings and RIMRISER-Ready precast concrete tops.
 1.2 The following information is intended as a guide for installing municipal castings such as cast iron manhole rings (Figure 1) and cast iron catch basin frames (Figure 2) using RIMRISER installation products.
 1.3 The user's field experience and modifications to these recommended procedures may yield slightly different, although acceptable, results.
 1.4 Refer to local standard specifications for additional installation details.

2. Note to Installer
 If you experience any issues with the installation of RIMRISER™ products, please don't hesitate to contact our team at (360) 833-2277 or help@rimriser.com. Use only genuine RIMRISER parts and RIMRISER-Ready castings.

3. Suggested Tool List

- One of the following:
 - cordless drill driver to accept 5/8" hex nut driver (12" long X 5/8" hex nut driver see Figure 1, EAZYPOWER P/N 32821)
 - ratchet wrench or speed wrench with a 5/8" hex nut socket
- Construction level
- String lines
- Tape measure
- Powered cut-off saw
- Non-shrink grout (refer to local specifications)
- Cleaning cloth and brush



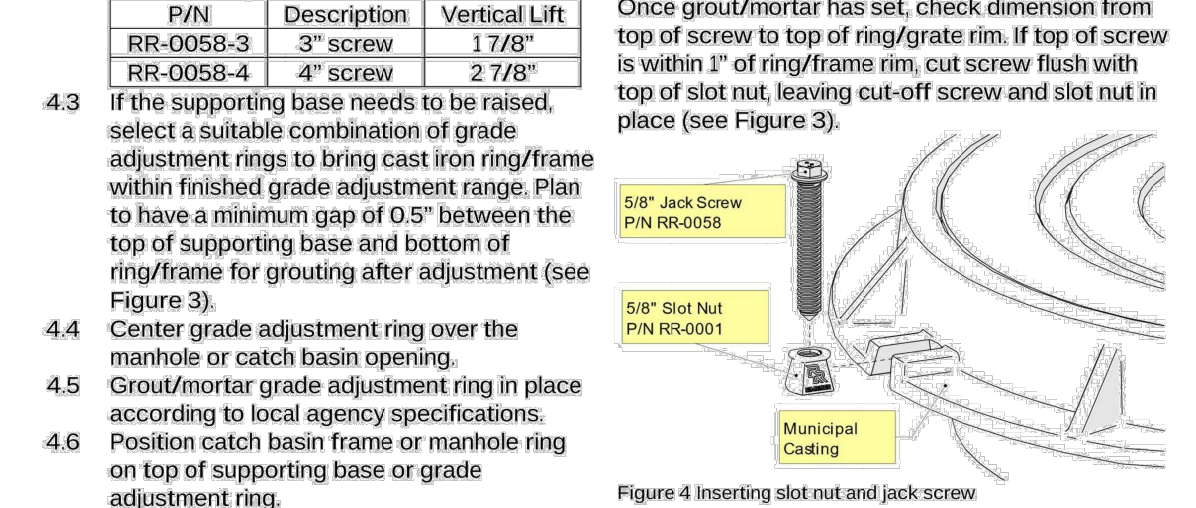
RIMRISER Adjustable Municipal Casting Installation Guide

4. Adjust Ring/Frame to Grade
 4.1 Determine and/or mark finished grade according to appropriate standard methods (for example, marking with string lines or evaluating with a construction level).
 4.2 Refer to the table below for RIMRISER screw vertical lift capability. Eight (8) turns equal 1" of vertical adjustment.

P/N	Description	Vertical Lift
RR-0058-3	3" screw	1 7/8"
RR-0058-4	4" screw	2 7/8"

4.3 If the supporting base needs to be raised, select a suitable combination of grade adjustment rings to bring cast iron ring/frame within finished grade adjustment range. Plan to have a minimum gap of 0.5" between the top of supporting base and bottom of ring/frame for grouting after adjustment (see Figure 3).

4.4 Center grade adjustment ring over the manhole or catch basin opening.
 4.5 Grout/mortar grade adjustment ring in place according to local agency specifications.
 4.6 Position catch basin frame or manhole ring on top of supporting base or grade adjustment ring.
 4.7 Thread the four (4) RIMRISER screws (P/N RR-0058) into slot nuts (P/N RR-0001) and slide into casting (see Figure 4).



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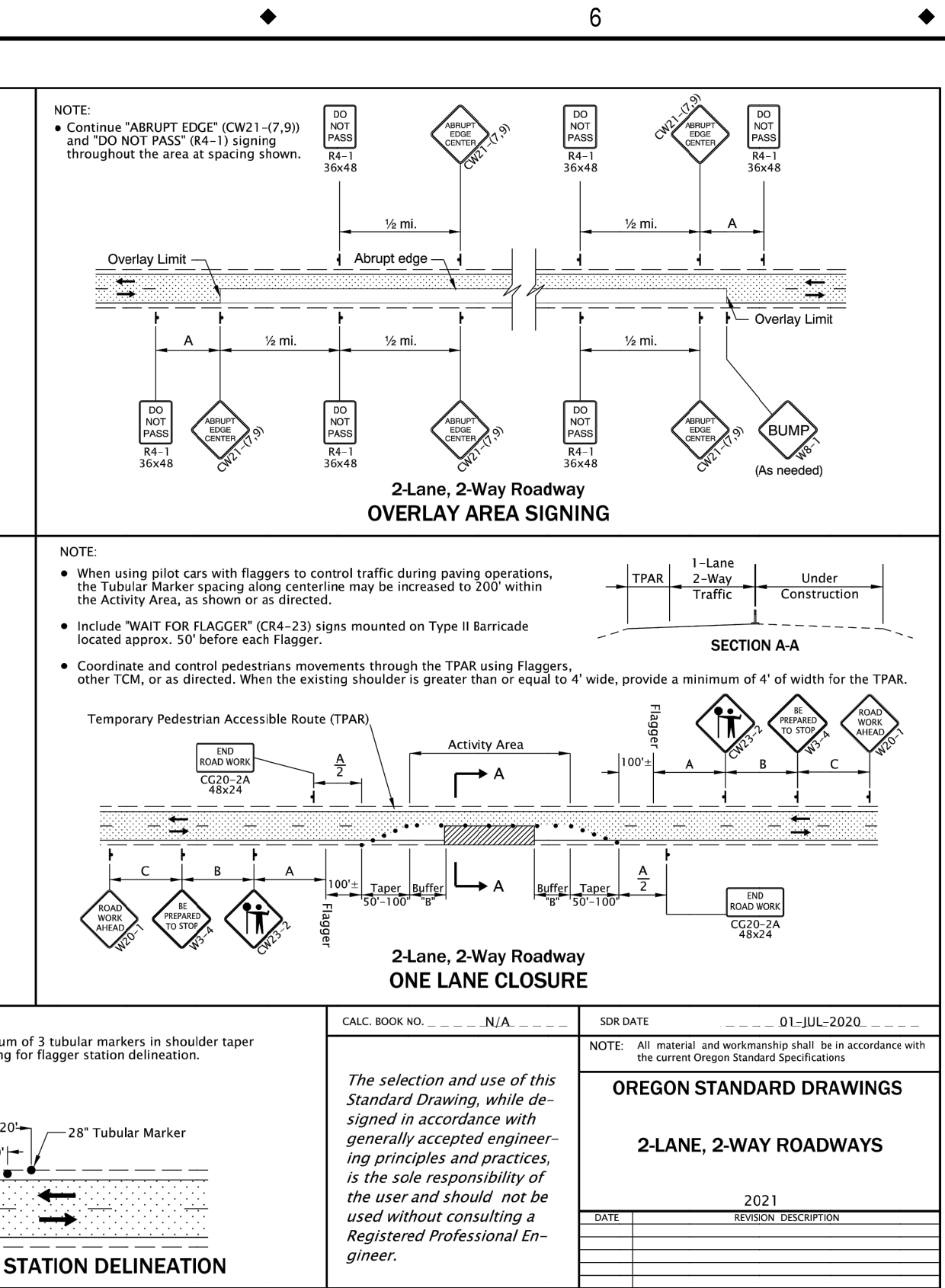
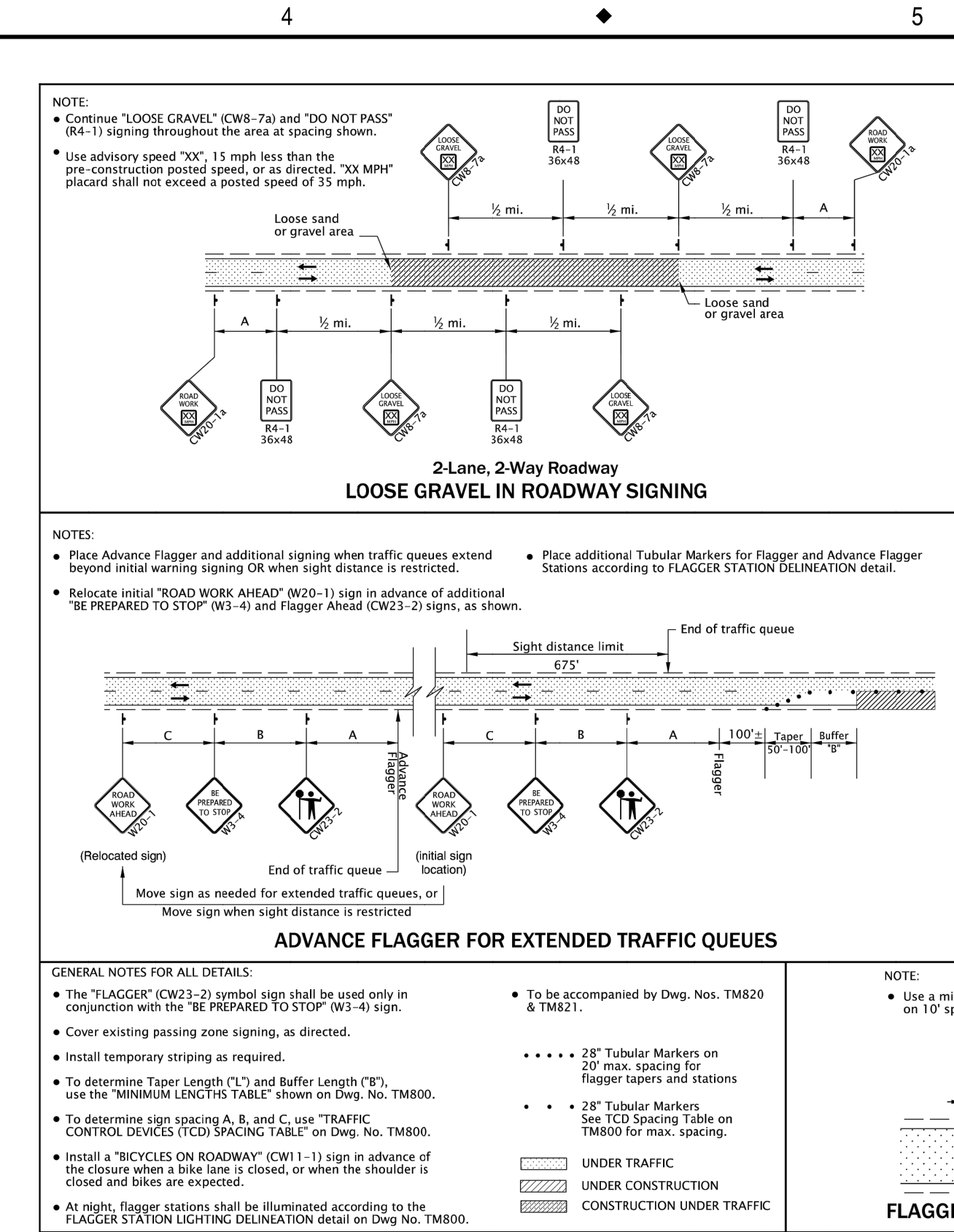
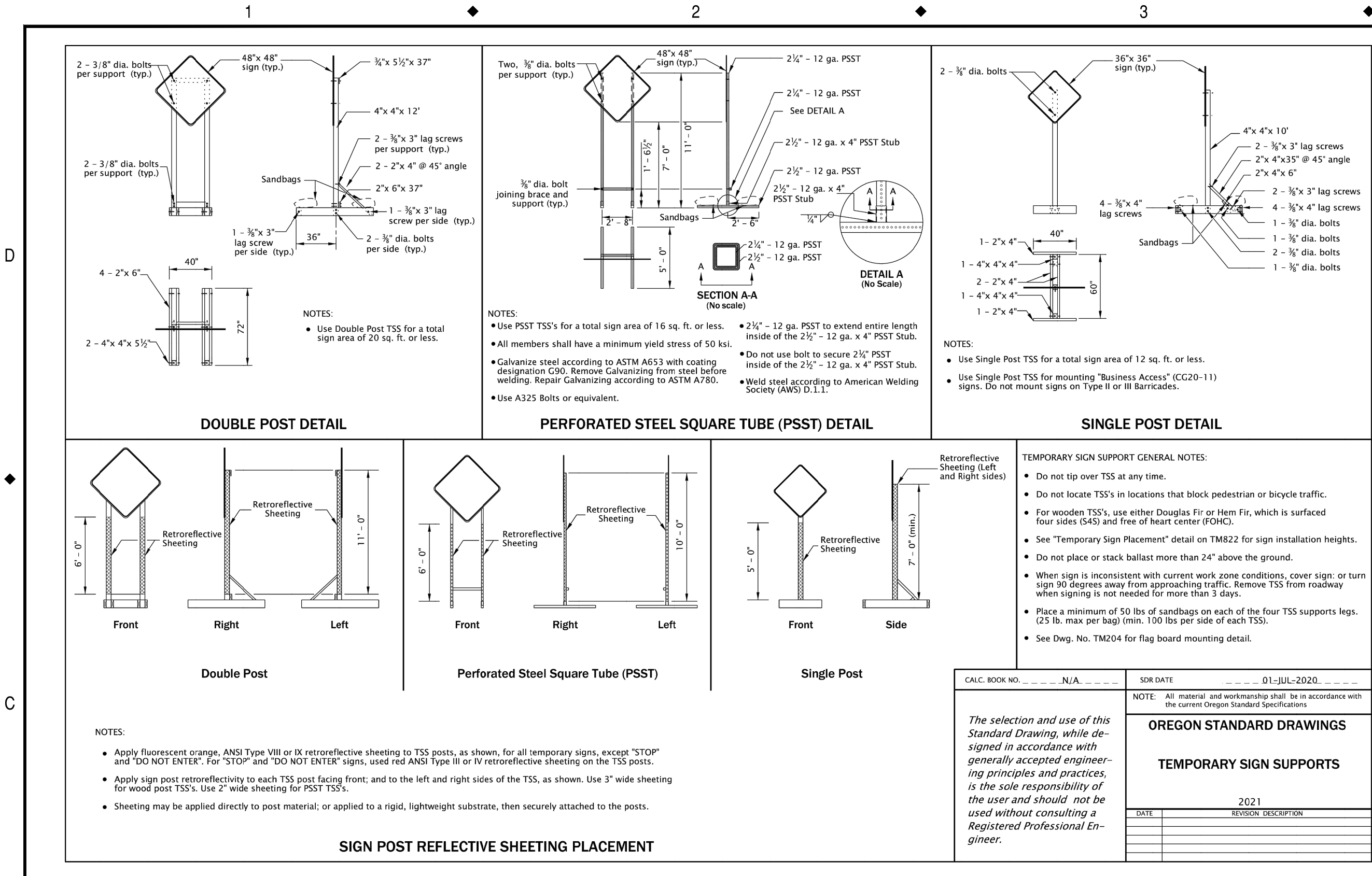
BB 01/2023
 DESIGNED DATE
 BB 01/2023
 DRAFTED DATE
 CHECKED DATE
 APPROVED DATE

REGISTERED PROFESSIONAL ENGINEER
 80169PE
OREGON
 SEPT. 11, 2007
 JENNIFER ANN CARROLL
 EXPIRES: 06/30/2021

CITY OF MILWAUKIE
 6101 SE JOHNSON CREEK BLVD.
 MILWAUKIE, OR 97206
 PHONE: 503-786-7600
 FAX: 503-774-8236

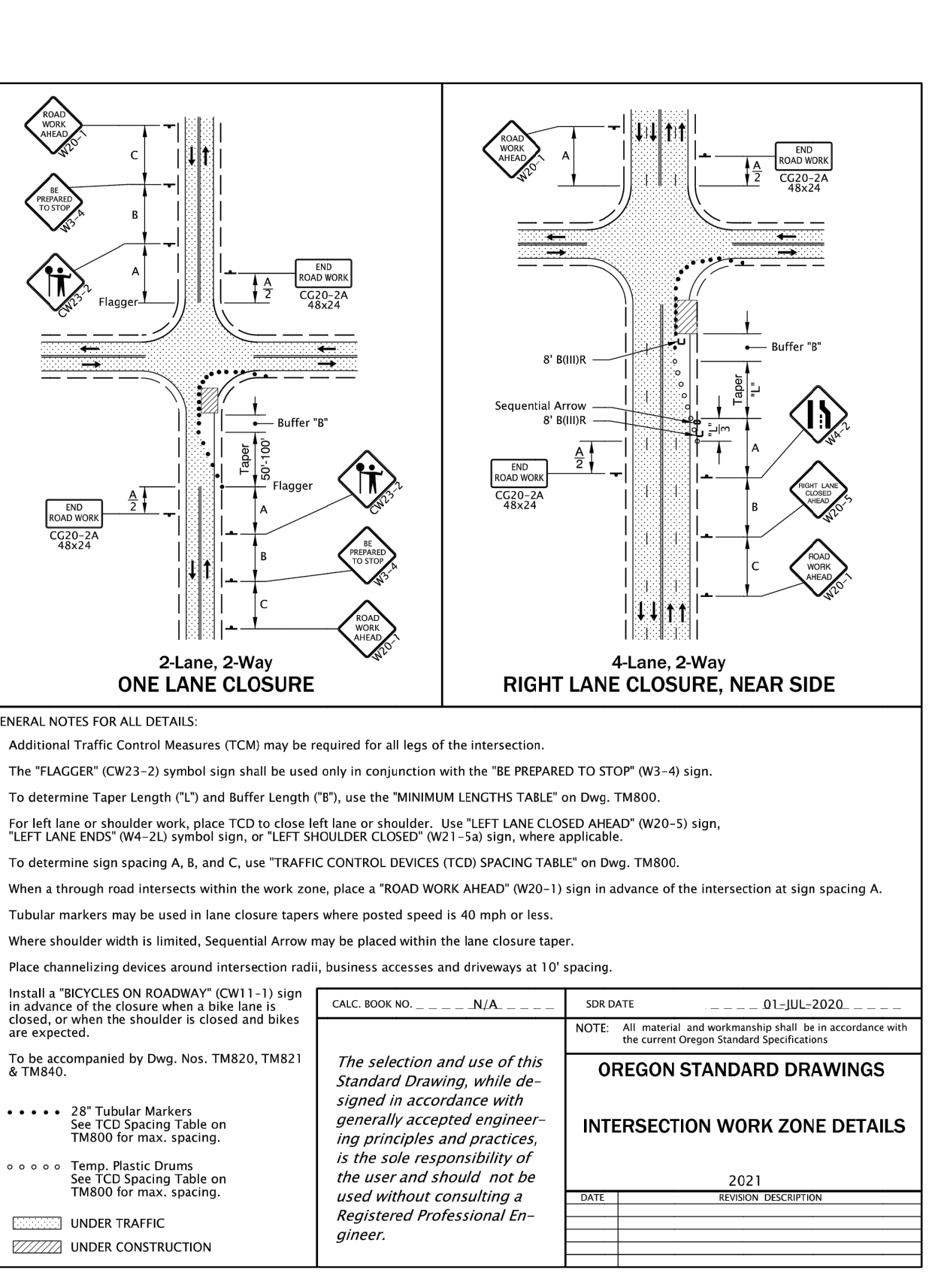
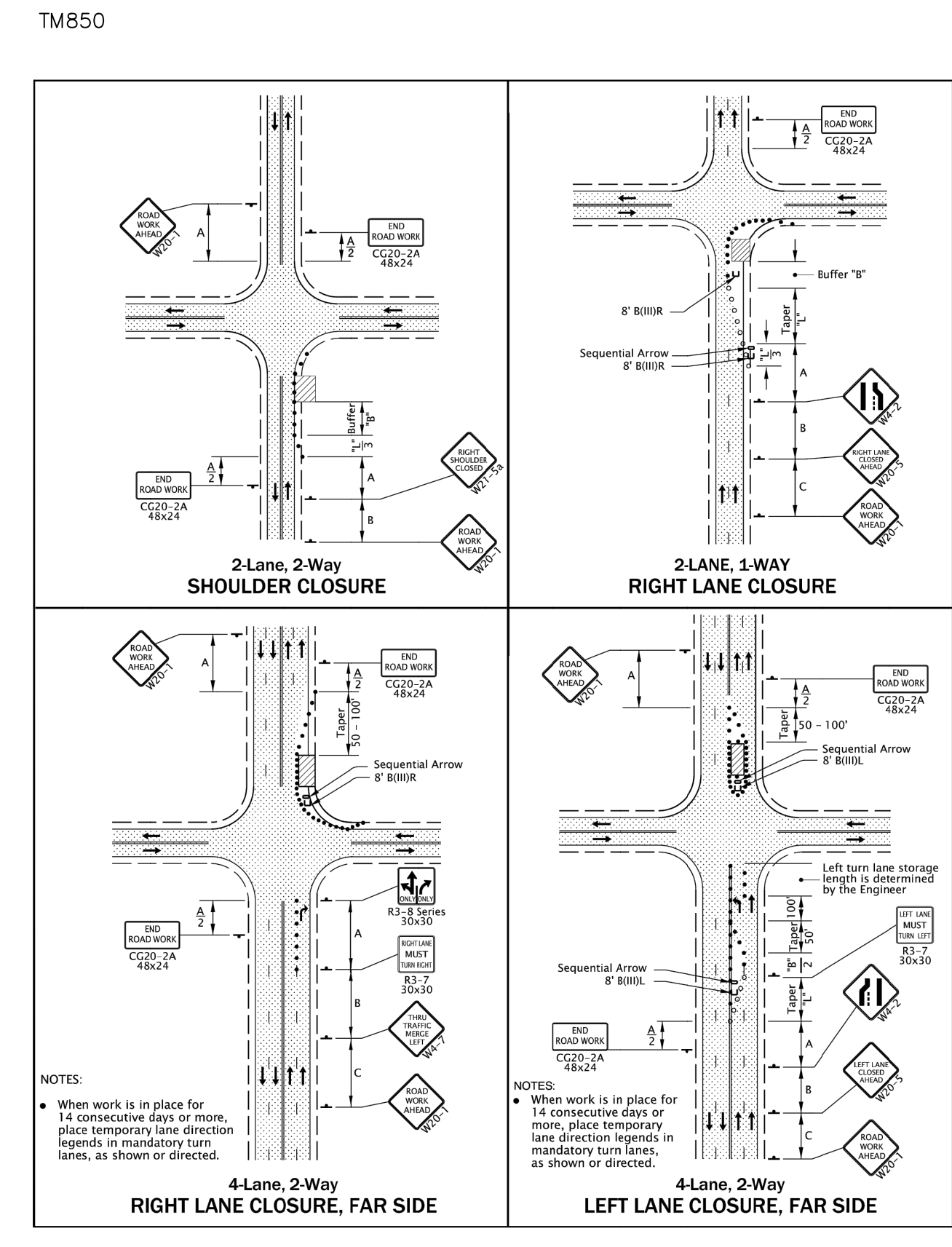
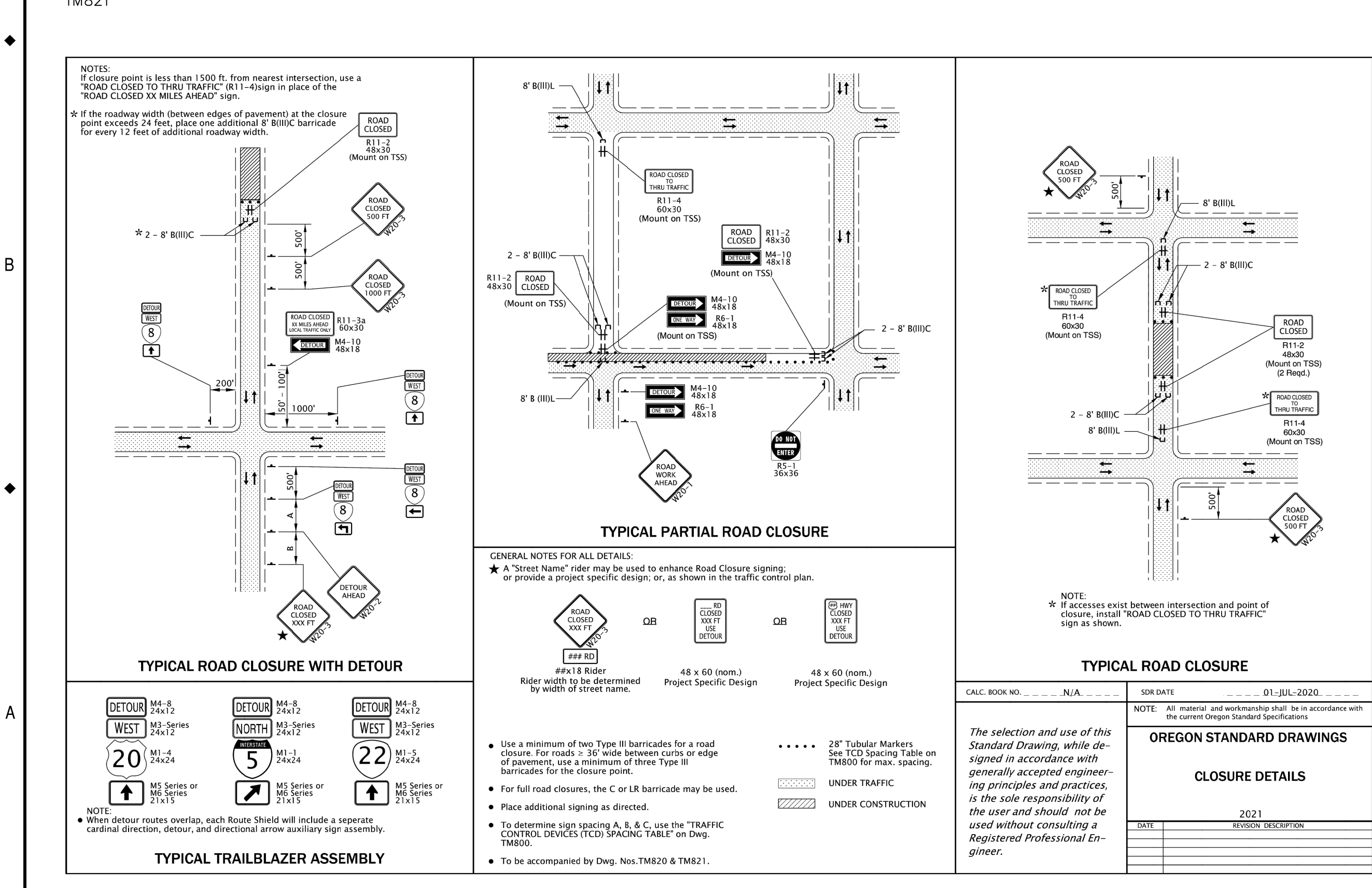
WASTEWATER SYSTEM IMPROVEMENTS
CONSTRUCTION DETAILS

PROJECT NO.: CIP 2021-X39 CONTRACT NO.: SS30 DATE: 01/2023 SHEET NO.: 19 OF 20



TRAFFIC CONTROL NOTES:

- 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 (OTTCB).
- CONTRACTOR SHALL INSTALL AND MAINTAIN ALL TEMPORARY TRAFFIC CONTROL DEVICES THROUGHOUT THE DURATION OF CONSTRUCTION.
- ALL TRAVEL LANES, STREETS, DRIVEWAYS, AND POINTS OF ACCESS SHALL BE OPENED TO VEHICULAR TRAFFIC AT THE END OF EACH WORK DAY.
- CONTRACTOR SHALL NOTIFY THE AFFECTED BUSINESS / PROPERTY OWNER OF DATE AND DURATION OF INTERRUPTION, 14 DAYS IN ADVANCE OF THE CLOSURE.
- 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.
- 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.



NO.	DATE	BY	REVISIONS

BB	01/2023	DESIGNED	DATE
BB	01/2023	DRAFTED	DATE
		CHECKED	DATE
		APPROVED	DATE

REGISTERED PROFESSIONAL ENGINEER
OREGON
SEP 11, 2007
RENEWED ANNULARY

EXPIRES: 06/30/2021

CITY OF MILWAUKIE

6101 SE JOHNSON CREEK BLVD.
MILWAUKIE, OR 97206

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

WASTEWATER SYSTEM IMPROVEMENTS

TRAFFIC CONTROL DETAILS

PROJECT NO.: CIP 2021-X39 CONTRACT NO.: TC31 DATE: 01/2023 SHEET NO.: 20 of 20