

CITY OF SHERWOOD

LANGER DRIVE GRIND AND INLAY

MARCH 2022

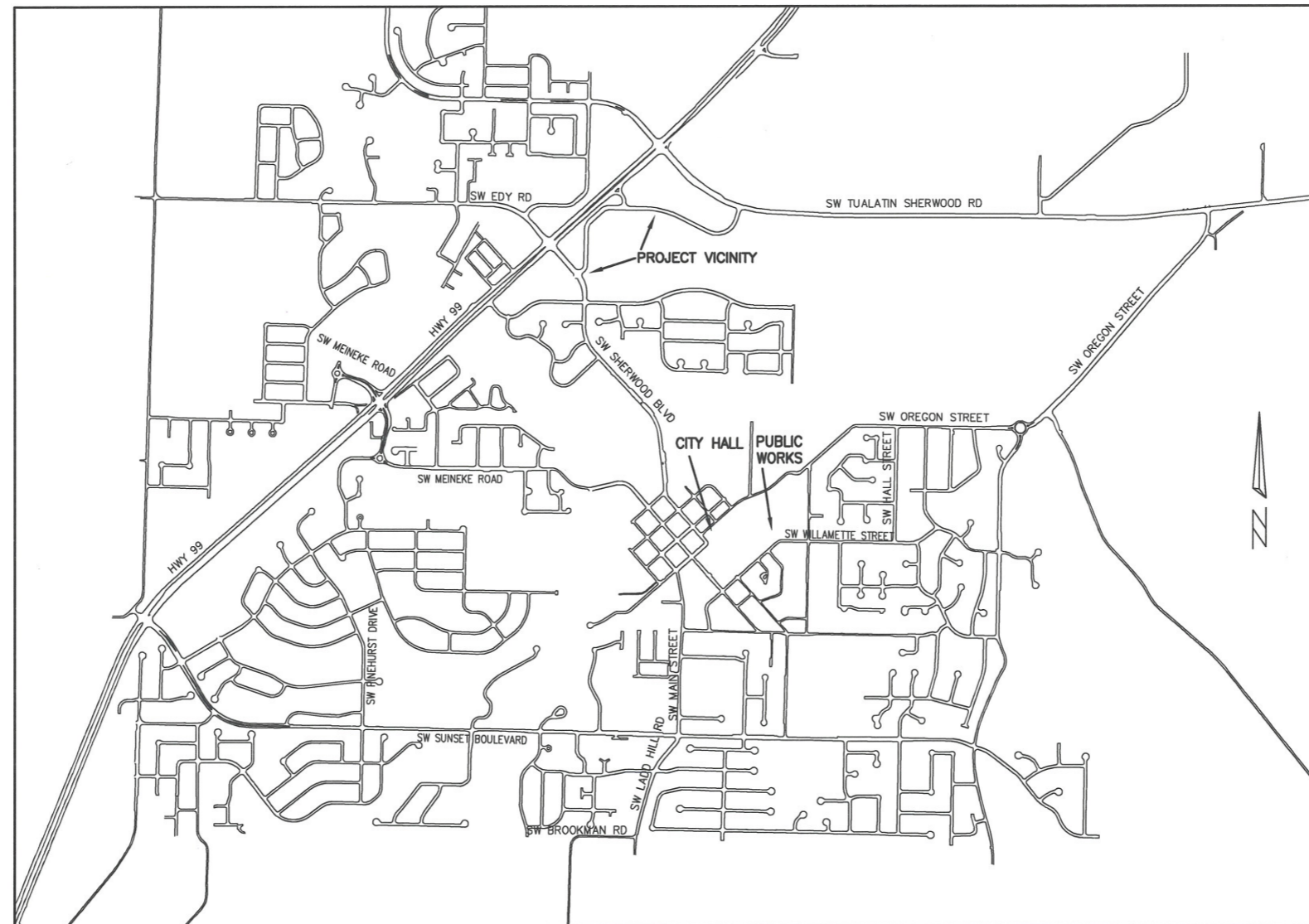
(BID DOCUMENT VOLUME 2 OF 2 - CONTRACT DRAWINGS)

PROJECT LOCATION:
SW LANGER DRIVE (SW SHERWOOD BOULEVARD TO
SW HOLLAND LANE)

DEVELOPER/OWNER:
CITY OF SHERWOOD
22560 SW PINE ST
SHERWOOD, OREGON 97140
CONTACT: CRAIG CHRISTENSEN, P.E.
PH. 503-925-2301
CHRISTENSENC@SHERWOODOREGON.GOV

SHEET INDEX:

1. COVER SHEET
2. GENERAL NOTES
3. EROSION CONTROL COVER SHEET
4. EROSION CONTROL PLAN VIEW
5. PLAN VIEW
6. PAVEMENT MARKING PLAN
7. DETAILS
8. DETAILS
9. EROSION CONTROL DETAILS



VICINITY MAP
NOT TO SCALE

THIS DESIGN COMPLIES WITH ORS 92.044 (7) IN THAT NO UTILITY INFRASTRUCTURE IS DESIGNED TO BE WITHIN ONE (1) FOOT OF A SURVEY MONUMENT LOCATION SHOWN ON A SUBDIVISION OR PARTITION PLAT. NO DESIGN EXCEPTIONS NOR FINAL FIELD LOCATION CHANGES SHALL BE PERMITTED IF THAT CHANGE WOULD CAUSE ANY UTILITY INFRASTRUCTURE TO BE PLACED WITHIN THE PROHIBITED AREA.

ATTENTION EXCAVATORS: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-011-0010 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 2 BUSINESS DAYS, BEFORE COMMENCING ANY EXCAVATION. CALL (503) 246-6699.

INSPECTOR INFORMATION:

CITY OF SHERWOOD: ANDY STIRLING (503) 925-2307
CONTACT INSPECTOR 48 HOURS PRIOR TO CONSTRUCTION.

SURVEY INFORMATION:

HORIZONTAL
AERIAL TOPOGRAPHIC MAP (2004) AND VISUAL OBSERVATION.

VERTICAL
AERIAL TOPOGRAPHIC MAP (2004) WITH ADDITIONAL LEVEL INFORMATION PERFORMED FOR STORM SEWER DESIGN.

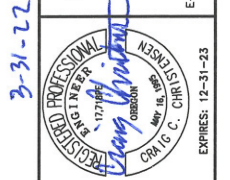
COVER SHEET

LANGER DRIVE GRIND AND INLAY

LOCATED IN SECTION 29C, T2S, R1W, W.M. IN THE CITY OF SHERWOOD, WASHINGTON COUNTY, STATE OF OREGON

CITY OF SHERWOOD
ENGINEERING DEPARTMENT
SHERWOOD, OREGON 97140

PHONE: (503) 925-2309
FAX: (503) 925-0029
E-MAIL: engineering@sherwoodoregon.gov



2-31-22

DESIGNED BY:	CCC	CCC	RS/AS	N/A	MARCH, 2022	REVISIONS
DRAWN BY:						
CHECKED BY:						
FULL SIZE SCALE:						
DATE:						

JOB NO.	
SHEET NO.	1
	of 9

CITY OF SHERWOOD LANGER DRIVE GRIND AND INLAY

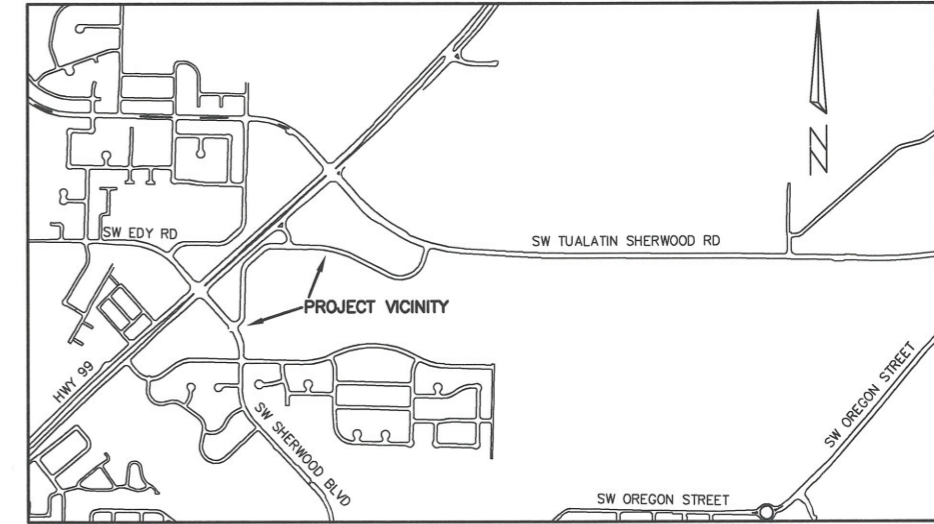
PROJECT LOCATION:
SW LANGER DRIVE (SW SHERWOOD BOULEVARD TO SW HOLLAND LANE)

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 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 conducted and runoff is unlikely during frozen conditions.	Visual monitoring inspections may be reduced to once a month. Immediately resume monitoring upon thawing, or when weather conditions make discharges likely.

BMP MATRIX FOR CONSTRUCTION PHASE

PHASE/BMP	CLEARING	MASS GRADING	UTILITY CONSTRUCTION	VERTICAL CONSTRUCTION	FINAL STABILIZATION
EROSION PREVENTION					
GROUND COVER					X
PLASTIC SHEETING					
DUST CONTROL					
TEMPORARY STABILIZATION (STRAW MULCH/HYDROSEED)					
PERMANENT STABILIZATION					X
BUFFER ZONE (FROM RAVINE)					
SEDIMENT CONTROL					
SEDIMENT FENCE (PERIMETER)					
SEDIMENT FENCE (INERIOR)					
STRAW WATTLES					
INLET PROTECTION	X	X	X		
DEWATERING			X		
RUN OFF CONTROL					
CONSTRUCTION ENTRANCE					
EXISTING OUTLET PROTECTION					
NEW OUTLET PROTECTION					
EXISTING CURB INLET CHECK DAMS					
RUN OFF CONTROL					
HAZARDOUS WASTE MANAGEMENT	X	X	X		X
SPILL KIT ONSITE	X	X	X		X
CONCRETE WASHOUT AREA		X	X		

- 1.Once known, include a list of all contractors that will engage in construction activities on site, and the areas of these where the contractor(s) will engage in construction activities. Revise the list as appropriate until permit coverage is terminated (Section 4.4.c.). 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.i)
- 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 6.5.4)
- 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-foot 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 Rev. 12/15/20 Page 8 of 9 By: Blair Edwards 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)
- 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)



VICINITY MAP

DEVELOPER/OWNER:

CITY OF SHERWOOD
22560 SW PINE ST
SHERWOOD, OREGON 97140
CONTACT: CRAIG CHRISTENSEN, P.E.
PH. 503-925-2301
CHRISTENSENC@SHERWOODOREGON.GOV

ENGINEER/ESCP PREPARER:

CRAIG CHRISTENSEN, P.E.
CITY OF SHERWOOD
ENGINEERING DEPARTMENT
PH. 503-925-2301
CHRISTENSENC@SHERWOODOREGON.GOV

CONTRACTOR:

NOT YET SELECTED

BMP INSTALLER/MAINTAINER:

BY CONTRACTOR

CESCL:

TO BE SUPPLIED BY CONTRACTOR

SITE INFORMATION:

1. TYPE OF DEVELOPMENT: STREET MAINTENANCE
2. CONSTRUCTION ACTIVITY WILL CONSIST OF:
 - A) CATCH BASIN REPLACEMENT
 - B) SIDEWALK RAMP REPLACEMENT
 - C) PAVEMENT GRIND
 - D) ASPHALT PLACEMENT
 - E) PAVEMENT MARKING
3. PROJECT TIMELINE:
MAY, 2022 - JULY, 2022
4. PROJECT AREA:
APPROXIMATELY 1.95 ACRES OF DISTURBED AREA
5. OFFSITE IMPROVEMENT AREA:
NONE
6. SITE SOIL CHARACTERISTICS:
VEGETATION/TOPSOIL.
7. CUT AND FILL DATA:
NEGLECTIBLE - SLIGHT CUT AND RESTORE AROUND SIDEWALK RAMPS

SHEET INDEX:

- SHEET 3/8 - EROSION CONTROL COVER SHEET
SHEET 4/8 - EROSION CONTROL PLAN VIEW
SHEET 8/8 - EROSION CONTROL DETAILS

LEGEND

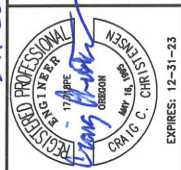
- = EXISTING CURB AND GUTTER
- ⊙ = EXISTING WATER VALVE
- W — = EXISTING WATER LINE
- ST — = EXISTING STORM LINE
- SAN — = EXISTING STORM LINE
- G — = EXISTING GAS LINE
- T — = EXISTING TELECOMMUNICATION LINE
- = CENTER LINE
- = EXISTING MANHOLE
- ▣ = EXISTING CATCH BASIN
- ▬ = PROPOSED CURB AND GUTTER
- = PROPOSED MANHOLE
- ▣ = PROPOSED CATCH BASIN
- EX = EXISTING
- S/W = SIDEWALK
- R/W = RIGHT-OF-WAY
- D/W = DRIVEWAY
- R = RADIUS
- ⊙ = CENTER LINE
- TOC = TOP OF CURB
- FG = FINISH GRADE
- G = GUTTER
- RT = RIGHT
- LT = LEFT
- T = TOP FACE OF CURB
- PH = POT HOLED
- EST = ESTIMATED

EROSION CONTROL COVER SHEET

LANGER DRIVE GRIND AND INLAY

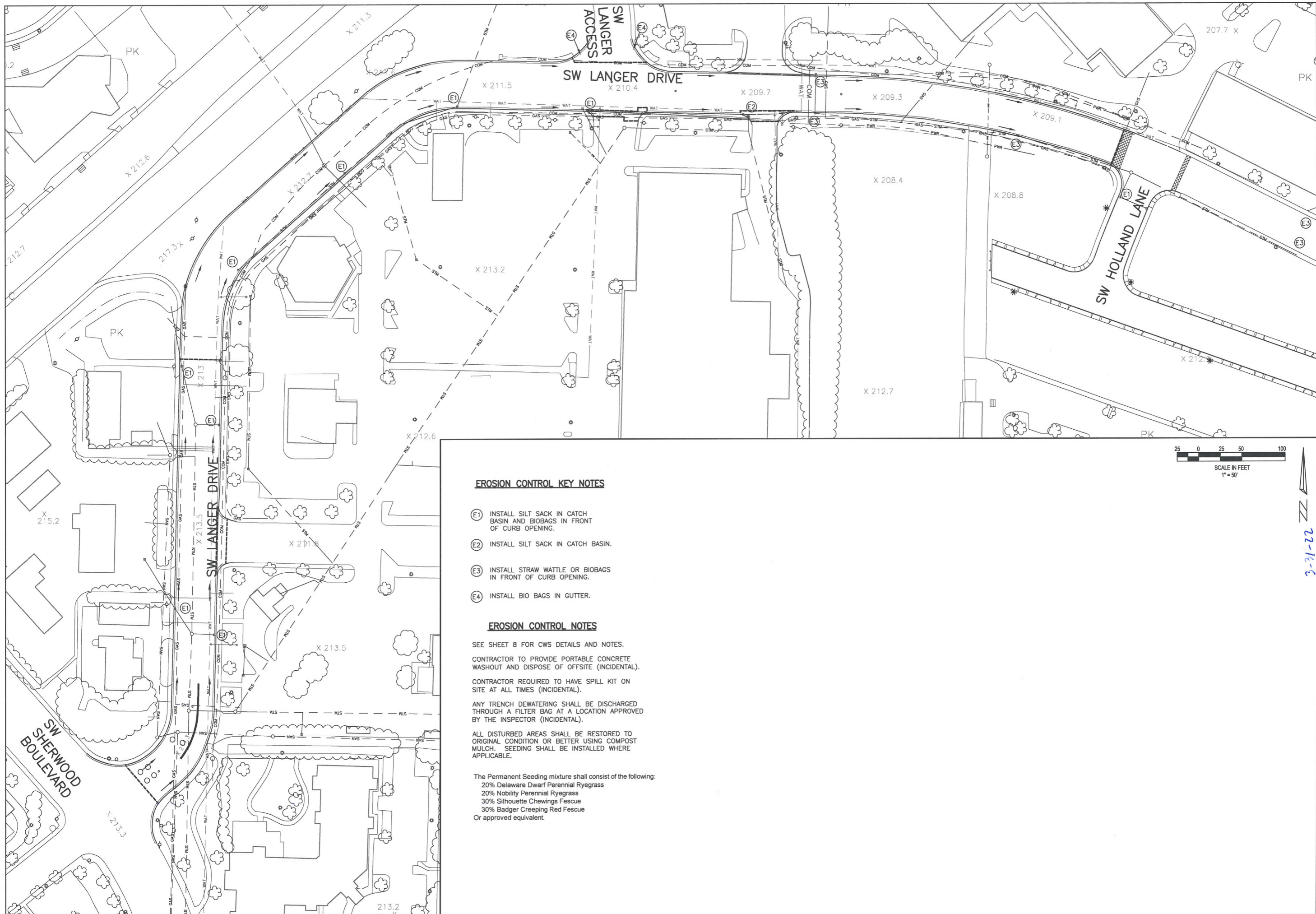
LOCATED IN SECTIONS 29C, T2S, R1W, W.M. IN THE CITY OF SHERWOOD, WASHINGTON COUNTY, STATE OF OREGON

CITY OF SHERWOOD
ENGINEERING DEPARTMENT
22560 SW PINE STREET
SHERWOOD, OREGON 97140
PHONE: (503) 925-2309
FAX: (503) 625-0529
E-MAIL: engineering@sherwoodoregon.gov



DESIGNED BY:	CCC
DRAWN BY:	CCC
CHECKED BY:	RS/AS
FULL SIZE SCALE:	N/A
DATE:	MARCH, 2022
LANGER DRIVE OVERLAY SHEETS	

REVISIONS	



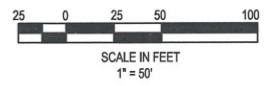
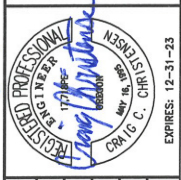
**EROSION CONTROL -
UTILITY CONSTRUCTION
AND FINAL STABILIZATION**

LANGER DRIVE GRIND AND INLAY

LOCATED IN SECTION 29C, T2S, R1W, W.M.
IN THE CITY OF SHERWOOD, WASHINGTON COUNTY,
STATE OF OREGON

CITY OF SHERWOOD
ENGINEERING DEPARTMENT
22560 SW PINE STREET
SHERWOOD, OREGON 97140

PHONE: (503) 925-3309
FAX: (503) 625-0620
E-MAIL: engineering@sherwoodoregon.gov



EROSION CONTROL KEY NOTES

- (E1) INSTALL SILT SACK IN CATCH BASIN AND BIOBAGS IN FRONT OF CURB OPENING.
- (E2) INSTALL SILT SACK IN CATCH BASIN.
- (E3) INSTALL STRAW WATTLE OR BIOBAGS IN FRONT OF CURB OPENING.
- (E4) INSTALL BIO BAGS IN GUTTER.

EROSION CONTROL NOTES

SEE SHEET 8 FOR CWS DETAILS AND NOTES.

CONTRACTOR TO PROVIDE PORTABLE CONCRETE WASHOUT AND DISPOSE OF OFFSITE (INCIDENTAL).

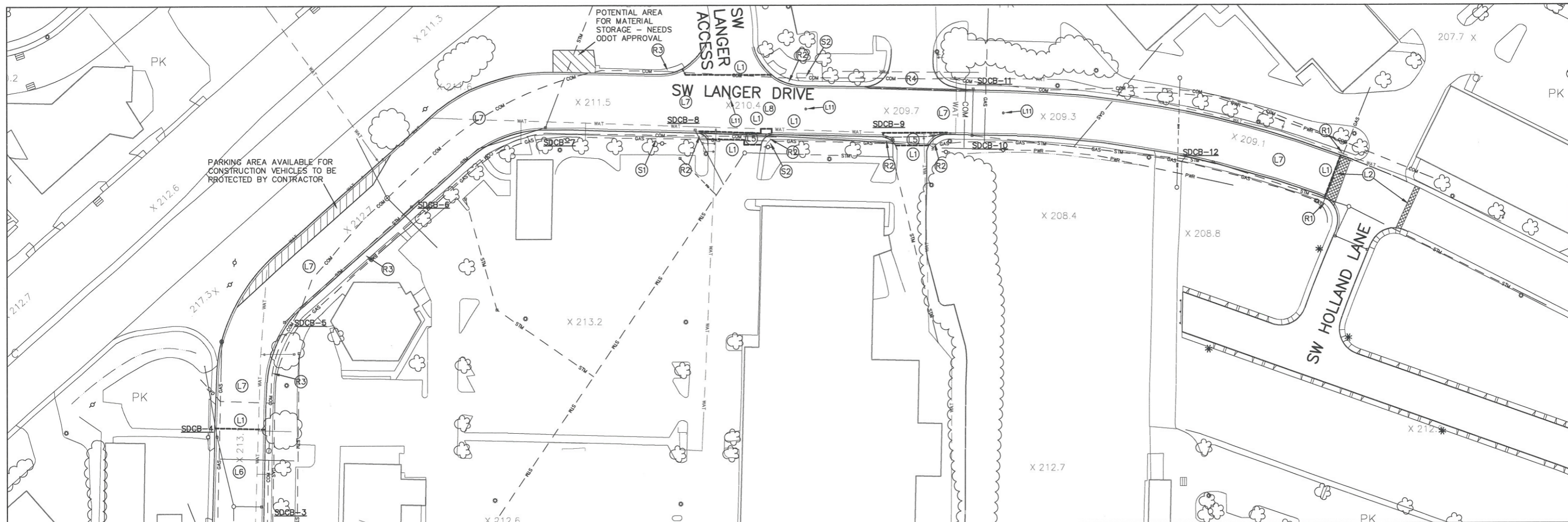
CONTRACTOR REQUIRED TO HAVE SPILL KIT ON SITE AT ALL TIMES (INCIDENTAL).

ANY TRENCH DEWATERING SHALL BE DISCHARGED THROUGH A FILTER BAG AT A LOCATION APPROVED BY THE INSPECTOR (INCIDENTAL).

ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER USING COMPOST MULCH. SEEDING SHALL BE INSTALLED WHERE APPLICABLE.

The Permanent Seeding mixture shall consist of the following:
 20% Delaware Dwarf Perennial Ryegrass
 20% Nobility Perennial Ryegrass
 30% Silhouette Chewings Fescue
 30% Badger Creeping Red Fescue
 Or approved equivalent.

DESIGNED BY:	CCC
DRAWN BY:	CCC
CHECKED BY:	RS/AS
FULL SIZE SCALE:	1"=30'
DATE:	MARCH, 2022
LANGER DRIVE OVERLAY_SHEETS.DWG	
REVISIONS	
JOB NO.	
SHEET NO.	4
	of 9



PARKING AREA AVAILABLE FOR CONSTRUCTION VEHICLES TO BE PROTECTED BY CONTRACTOR

POTENTIAL AREA FOR MATERIAL STORAGE - NEEDS ODOT APPROVAL

STREET KEY NOTES

- (L1) SAWCUT FOR GRIND AND INLAY (PARTIAL DEPTH). CONFIRM LOCATION WITH INSPECTOR. (INCIDENTAL)
- (L2) EXISTING STAMPED CONCRETE CROSSWALK - DO NOT DAMAGE - CLEAN OFF TACK COAT AFTER PAVING
- (L3) SAWCUT TO STOP ON PROJECT SIDE OF SIDEWALK CROSSING.
- (L4) SAWCUT FOR FULL DEPTH ASPHALT REMOVAL.
- (L5) REMOVE FULL DEPTH OF ASPHALT AND BASE ROCK TO ALLOW FOR PLACEMENT OF A NEW 3-1/2" ASPHALT BASE LIFT (2 LIFTS) PRIOR TO 1-1/2" OVERLAY. (HATCHED AREA)
- (L6) GRIND EXISTING ASPHALT (1-1/2" THICKNESS) AND INSTALL ASPHALT OVERLAY. MAINTAIN EXISTING PAVEMENT SLOPES AND MATCH FRONT EDGE OF CONCRETE GUTTER. WORK DONE VIA NIGHT TIME CLOSURE.
- (L7) GRIND EXISTING ASPHALT (1-1/2" THICKNESS) AND INSTALL ASPHALT OVERLAY. MAINTAIN EXISTING PAVEMENT SLOPES AND MATCH FRONT EDGE OF CONCRETE GUTTER. WORK DONE VIA NIGHT TIME CLOSURE. WORK DURING DAYTIME WITH 2 LANES REMAINING OPEN FOR TRAFFIC AND FLAGGERS AS NEEDED.
- (L8) EXISTING CONCRETE CROSSWALK TO BE REMOVED (UNKNOWN THICKNESS) - INSTALL AGGREGATE BASE UP TO 5 INCHES BELOW ASPHALT SURFACE AND COMPACT - INSTALL 3-1/2" OF ASPHALT BASE LIFT PRIOR TO 1-1/2" OVERLAY.
- (L9) INSTALL TRAFFIC LOOPS AT ORIGINAL LOCATIONS.
- (L10) RAISED CONCRETE MEDIAN TO REMAIN. DO NOT DAMAGE.
- (L11) PROTECT EXISTING MONUMENT.

REMOVE REMAINING DEPTH OF EXISTING ASPHALT AT LOCATIONS APPROVED BY THE ENGINEER. REMOVE BASE ROCK TO 6" BELOW EXISTING SUBGRADE - ENGINEER TO PROBE TO DETERMINE IF ADDITIONAL EXCAVATION IS REQUIRED - INSTALL GEOGRID ON BOTTOM AND ADDITIONAL LAYER OF GEOGRID IF ROCK SECTION IS GREATER THAN 16" IN DEPTH. CONTRACTOR TO CUT AND INSTALL GEOGRID (INCIDENTAL) CITY OF SHERWOOD WILL DELIVER GEOGRID TO SITE. LEFT OVER GEOGRID TO BE GIVEN BACK TO CITY OF SHERWOOD. INSTALL 3/4"-0" AGGREGATE BASE UP TO 5" BELOW GRINDING ASPHALT SURFACE (COMPACT TO 95% DENSITY OF AASHTO T-180 TEST METHOD) - INSTALL 5" THICKNESS OF LEVEL 2, 1/2-INCH, FORTI-FI TREATED ACP OR APPROVED EQUIVALENT (COMPACT TO 92% OF MAMD PER AASHTO T209) TO MATCH GRINDING ASPHALT SURFACE - CONFIRM LIMITS WITH ENGINEER

SIDEWALK RAMP KEY NOTES

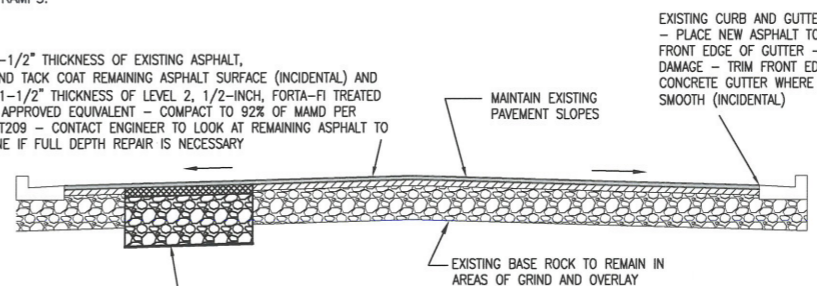
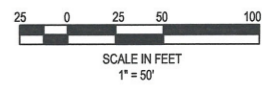
- (R1) EXISTING SIDEWALK RAMP TO REMAIN - DO NOT DAMAGE.
- (R2) CONTRACTOR TO CONTACT ENGINEER TO MEET ON SITE TO GO OVER CONCRETE REMOVAL LIMITS AND RAMP CONFIGURATION. CONTRACTOR TO CONTACT ENGINEER/INSPECTOR TO REVIEW FORMS BEFORE POURING CONCRETE. CONCRETE POURED WITHOUT FORM APPROVAL IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- (R3) CONTRACTOR TO CONTACT ENGINEER TO MEET ON SITE TO GO OVER CONCRETE REMOVAL LIMITS. EXISTING RAMP TO BE REMOVED AND REPLACE WITH FULL EXPOSURE CURB AND GUTTER WITH SIDEWALK MATCHING ADJOINING SIDEWALK.
- (R4) CONTRACTOR TO CONTACT ENGINEER TO MEET ON SITE TO GO OVER CONCRETE REMOVAL LIMITS AND RAMP/DRIVEWAY CONFIGURATION. CONTRACTOR TO CONTACT ENGINEER/INSPECTOR TO REVIEW FORMS BEFORE POURING CONCRETE. CONCRETE POURED WITHOUT FORM APPROVAL IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.

NOTE: NEW ASPHALT TO BE FLUSH WITH SIDEWALK RAMP.

GRIND 1-1/2" THICKNESS OF EXISTING ASPHALT, CLEAN AND TACK COAT REMAINING ASPHALT SURFACE (INCIDENTAL) AND INSTALL 1-1/2" THICKNESS OF LEVEL 2, 1/2-INCH, FORTI-FI TREATED ACP OR APPROVED EQUIVALENT - COMPACT TO 92% OF MAMD PER AASHTO T209 - CONTACT ENGINEER TO LOOK AT REMAINING ASPHALT TO DETERMINE IF FULL DEPTH REPAIR IS NECESSARY

CATCH BASIN KEY NOTES

- SDCB-1 REMOVE EXISTING CATCH BASIN. REPLACE WITH NEW CG-2 CATCH BASIN AND RECONNECT TO EXISTING STORM PIPE IE DEPTH = 2.8'±
- SDCB-2 REMOVE EXISTING CATCH BASIN. REPLACE WITH NEW CG-2 CATCH BASIN AND RECONNECT TO EXISTING STORM PIPES IE DEPTH = 2.3'±
- SDCB-3 REMOVE EXISTING CATCH BASIN. REPLACE WITH NEW CG-2 CATCH BASIN AND RECONNECT TO EXISTING STORM PIPE IE DEPTH = 3.8'±
- SDCB-4 REMOVE EXISTING CATCH BASIN. REPLACE WITH NEW CG-2 CATCH BASIN AND RECONNECT TO EXISTING STORM PIPES IE DEPTH = 5.3'±
- SDCB-5 REMOVE EXISTING CATCH BASIN. REPLACE WITH NEW CG-2 CATCH BASIN AND RECONNECT TO EXISTING STORM PIPE IE DEPTH = 1.8'±
- SDCB-6 REMOVE EXISTING CATCH BASIN. REPLACE WITH NEW CG-2 CATCH BASIN AND RECONNECT TO EXISTING STORM PIPES IE DEPTH = 2.9'±
- SDCB-7 REMOVE EXISTING CATCH BASIN. REPLACE WITH NEW CG-2 CATCH BASIN AND RECONNECT TO EXISTING STORM PIPES IE DEPTH = 3.0'±
- SDCB-8 REMOVE EXISTING CATCH BASIN. REPLACE WITH NEW CG-2 CATCH BASIN AND RECONNECT TO EXISTING STORM PIPE IE DEPTH = 3.2'±
- SDCB-9 REMOVE EXISTING CATCH BASIN. REPLACE WITH NEW FIELD INLET AND RECONNECT TO EXISTING STORM PIPE IE DEPTH = 2.5'±
- SDCB-10 EXISTING CG-30 TO REMAIN DO NOT DAMAGE IE DEPTH = 4.0'±
- SDCB-11 REMOVE EXISTING CATCH BASIN. REPLACE WITH NEW CG-30 CATCH BASIN AND RECONNECT TO EXISTING STORM PIPE IE DEPTH = 4.0'±
- SDCB-12 EXISTING CG-30 TO REMAIN DO NOT DAMAGE IE DEPTH = 5.7'±
- SDCB-13 REMOVE EXISTING CATCH BASIN. REPLACE WITH NEW CG-2 CATCH BASIN AND RECONNECT TO EXISTING STORM PIPE IE DEPTH = 1.8'±



NOTE: CONTACT ENGINEER AFTER ASPHALT GRINDING TO DETERMINE IF THERE ARE AREAS THAT NEED FULL DEPTH RECONSTRUCTION. ALLOW FOR TIME FOR RECONSTRUCTION PRIOR TO ASPHALT OVERLAY.

TYPICAL STREET SECTION WITH RECONSTRUCTION AREA
NOT TO SCALE

STREET SIGNS

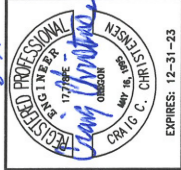
- (S1) PUBLIC WORKS TO INSTALL "BIKE LANE ENDS" SIGN
- (S2) PUBLIC WORKS TO INSTALL PEDESTRIAN CROSSING SIGN WITH DIAGONAL ARROW.

PLAN VIEW

LANGER DRIVE GRIND AND INLAY

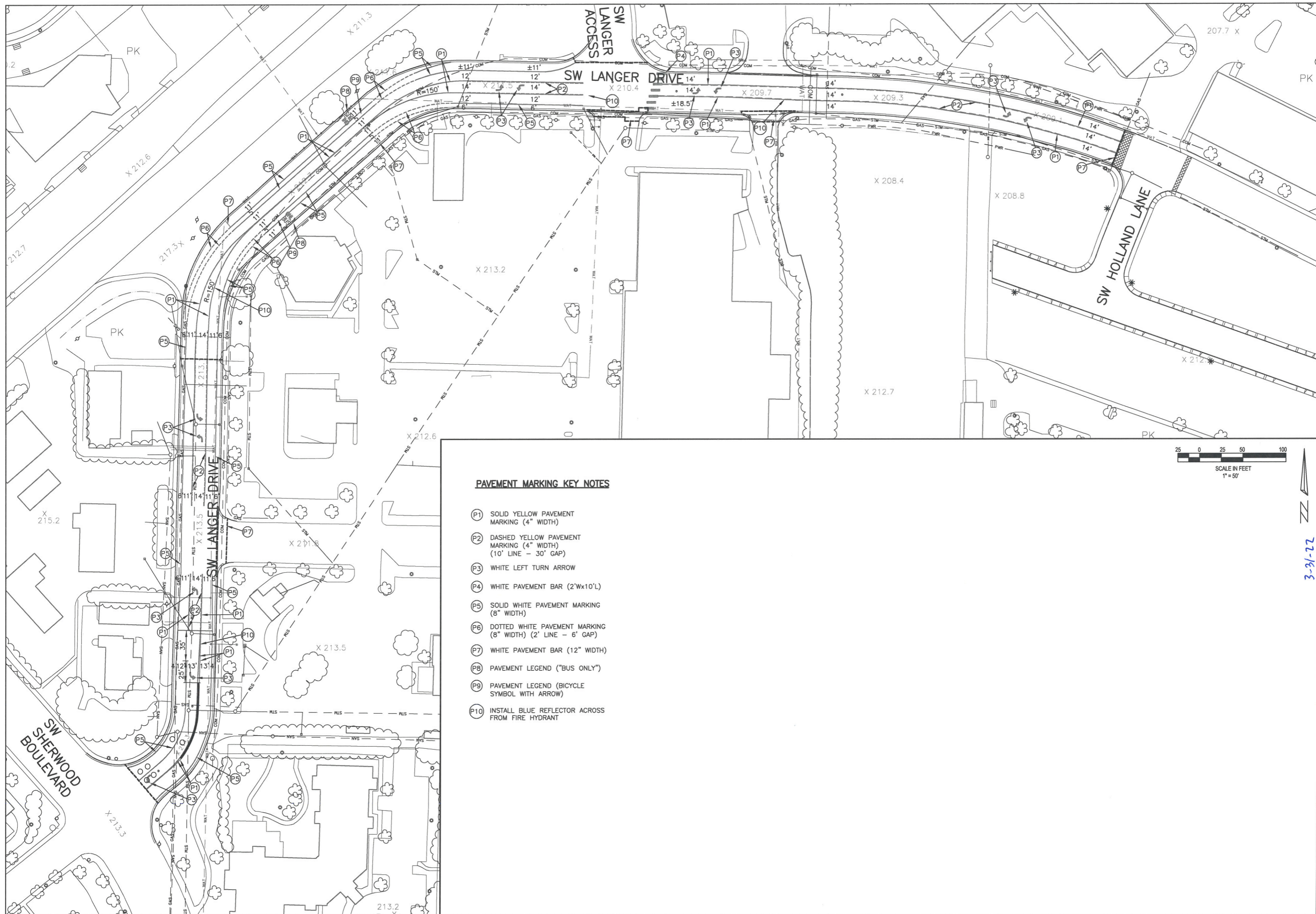
LOCATED IN SECTION 29C, T2S, R1W, W.M. IN THE CITY OF SHERWOOD, WASHINGTON COUNTY, OREGON

CITY OF SHERWOOD
ENGINEERING DEPARTMENT
SHERWOOD, OREGON 97140
PHONE: (503) 825-2309
E-MAIL: engineering@sherwoodoregon.gov



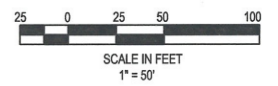
DESIGNED BY:	CCC
DRAWN BY:	CCC
CHECKED BY:	RS/AS
FULL SIZE SCALE:	1"=30'
DATE:	MARCH, 2022
LANGER DRIVE OVERLAY SHEETS.DWG	

NO.	DESCRIPTION



PAVEMENT MARKING KEY NOTES

- (P1) SOLID YELLOW PAVEMENT MARKING (4" WIDTH)
- (P2) DASHED YELLOW PAVEMENT MARKING (4" WIDTH) (10' LINE - 30' GAP)
- (P3) WHITE LEFT TURN ARROW
- (P4) WHITE PAVEMENT BAR (2'Wx10'L)
- (P5) SOLID WHITE PAVEMENT MARKING (8" WIDTH)
- (P6) DOTTED WHITE PAVEMENT MARKING (8" WIDTH) (2' LINE - 6' GAP)
- (P7) WHITE PAVEMENT BAR (12" WIDTH)
- (P8) PAVEMENT LEGEND ("BUS ONLY")
- (P9) PAVEMENT LEGEND (BICYCLE SYMBOL WITH ARROW)
- (P10) INSTALL BLUE REFLECTOR ACROSS FROM FIRE HYDRANT



PAVEMENT MARKING PLAN

LANGER DRIVE GRIND AND INLAY

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IN THE CITY OF SHERWOOD, WASHINGTON COUNTY,
STATE OF OREGON

CITY OF SHERWOOD
ENGINEERING DEPARTMENT
SHERWOOD, OREGON 97140

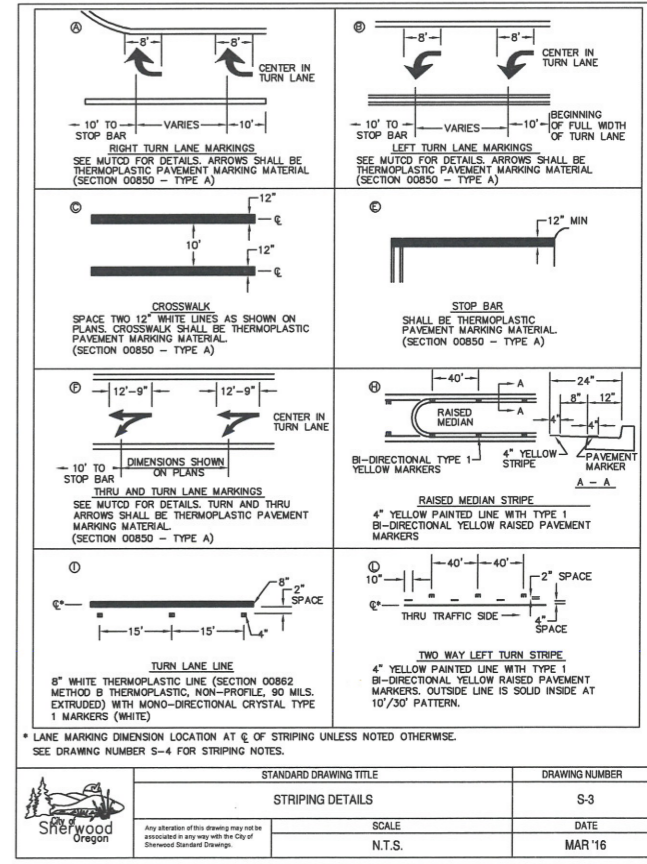
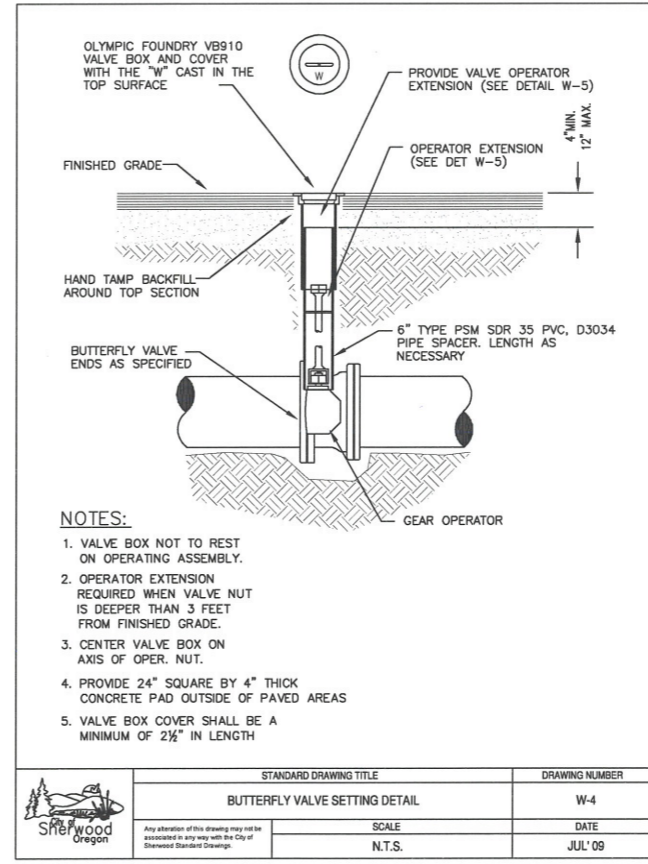
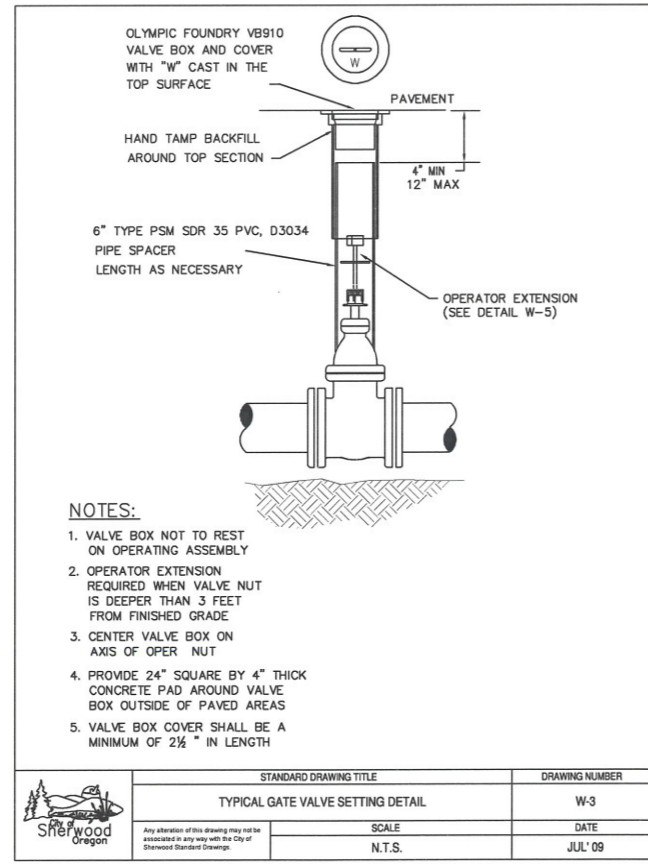
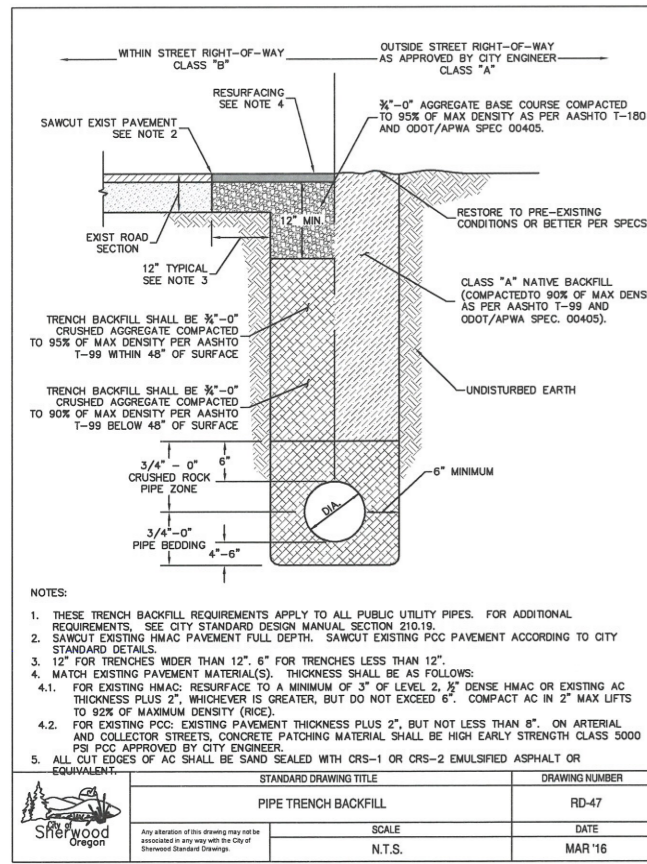
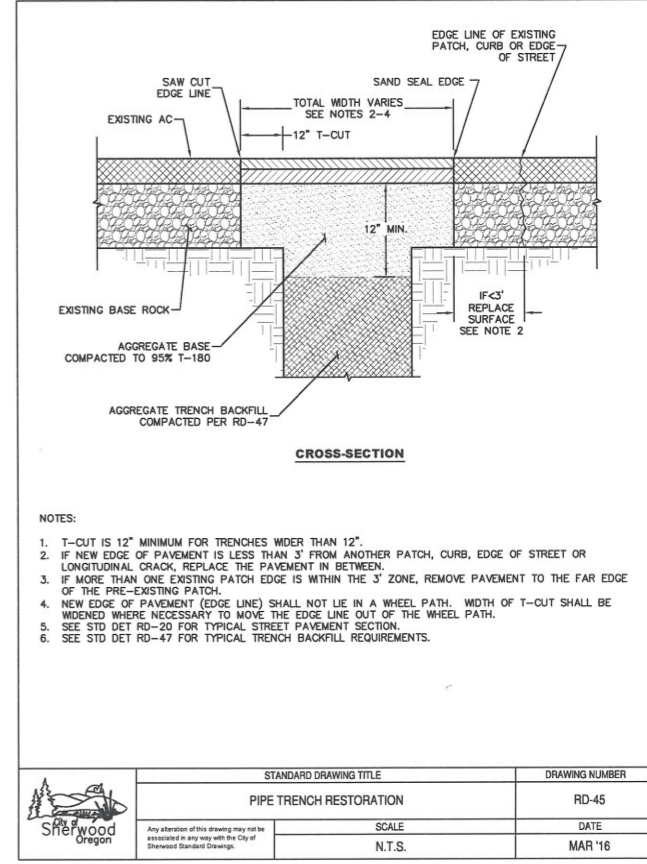
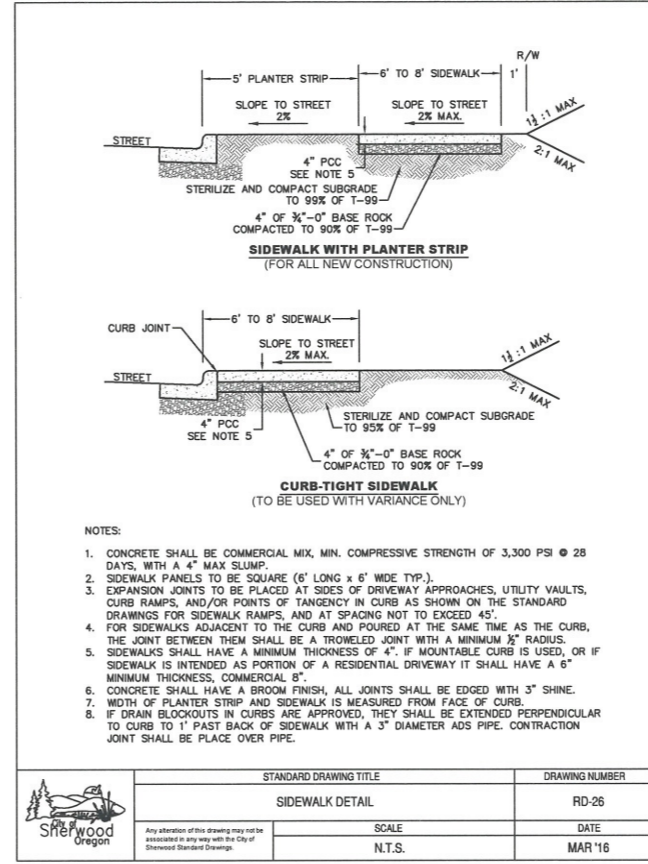
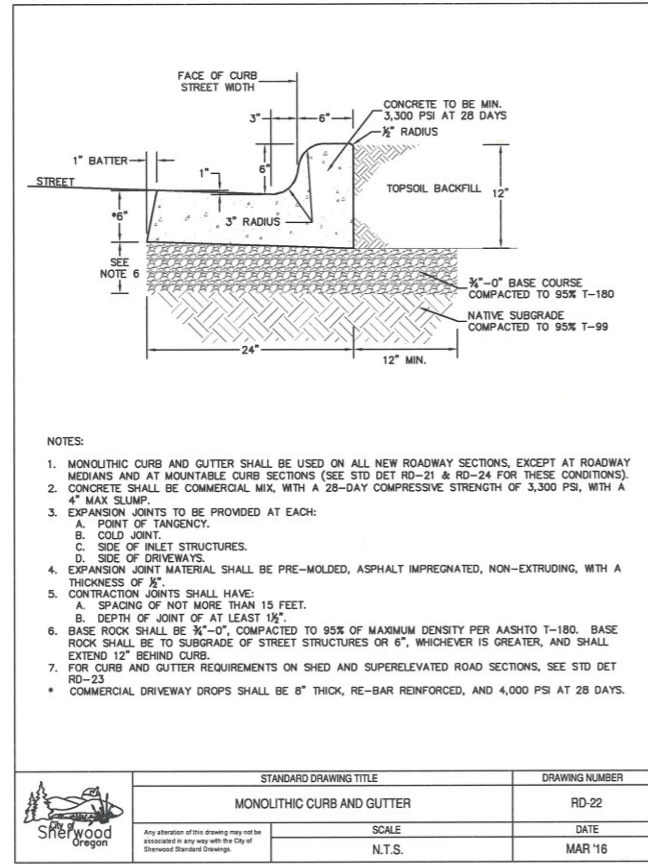
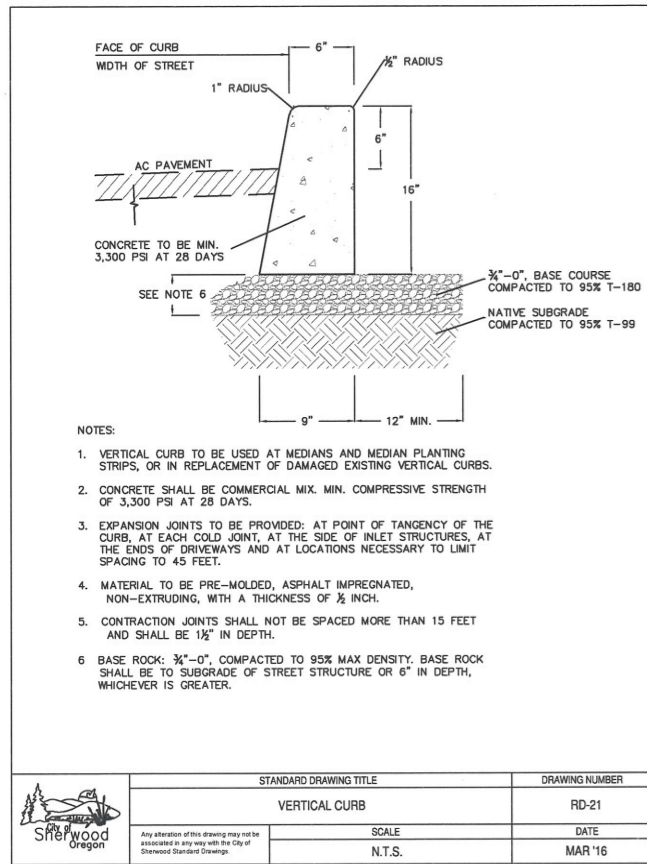
PHONE: (503) 925-2309
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3-31-22

EXPIRES: 12-31-23

DESIGNED BY:	CCC	DRAWN BY:	CCC	CHECKED BY:	RS/AS	FULL SIZE SCALE:	1"=30"
DATE:	MARCH, 2022	LANGER DRIVE OVERLAY_SHEETS.DWG					

REVISIONS	SHEET
	6
	9



DETAILS

LANGER DRIVE GRIND AND INLAY

LOCATED IN SECTIONS 29C, T2S, R1W, W4M, IN
THE CITY OF SHERWOOD, WASHINGTON COUNTY,
STATE OF OREGON

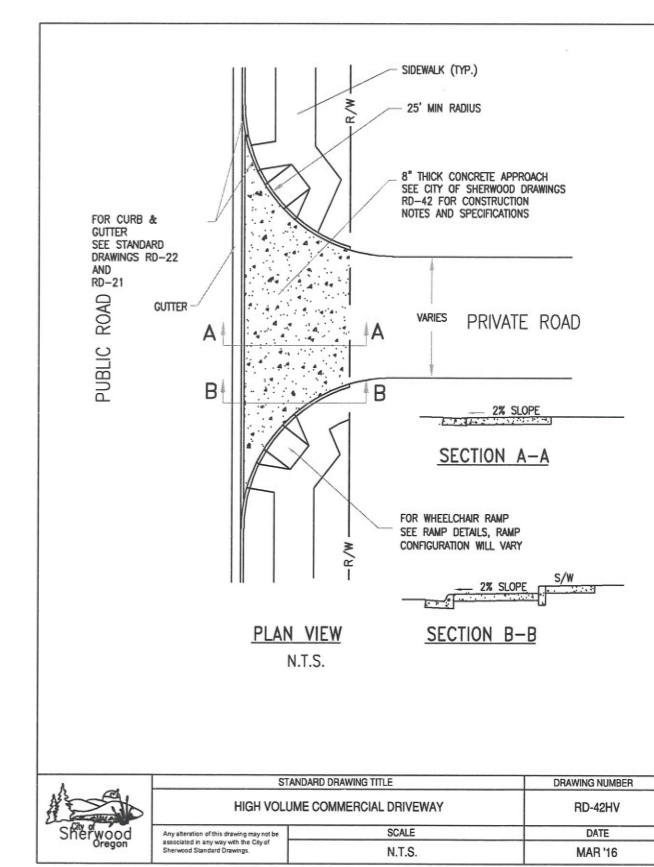
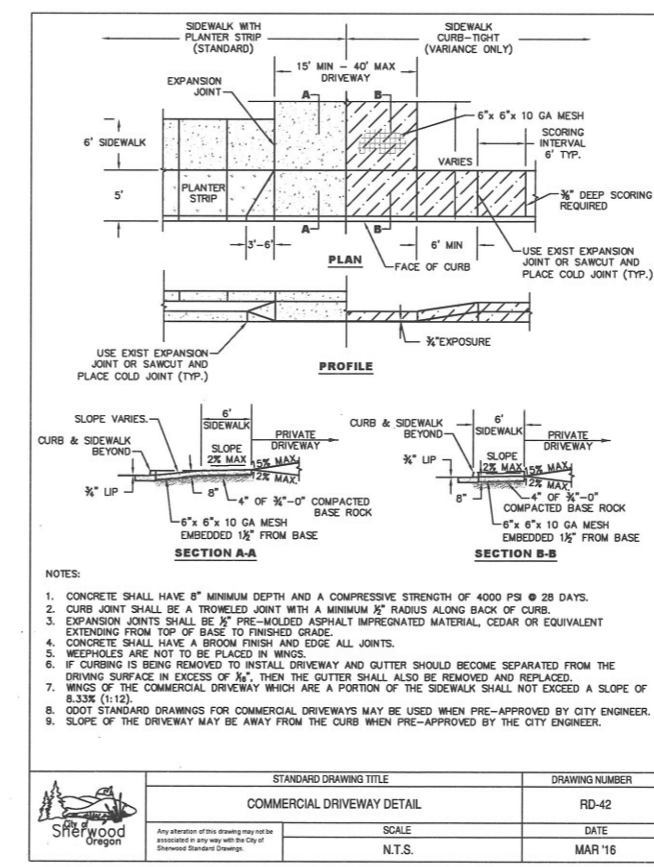
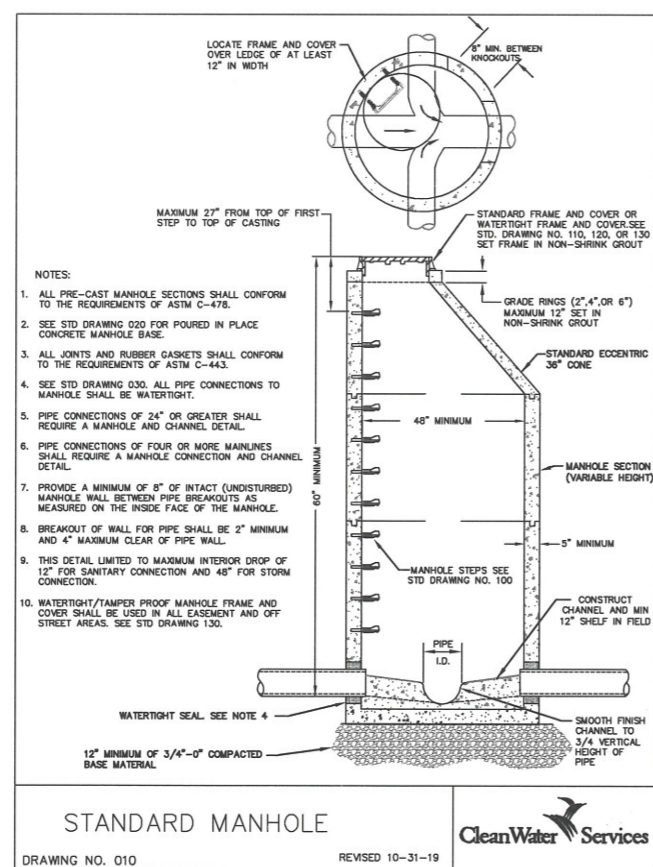
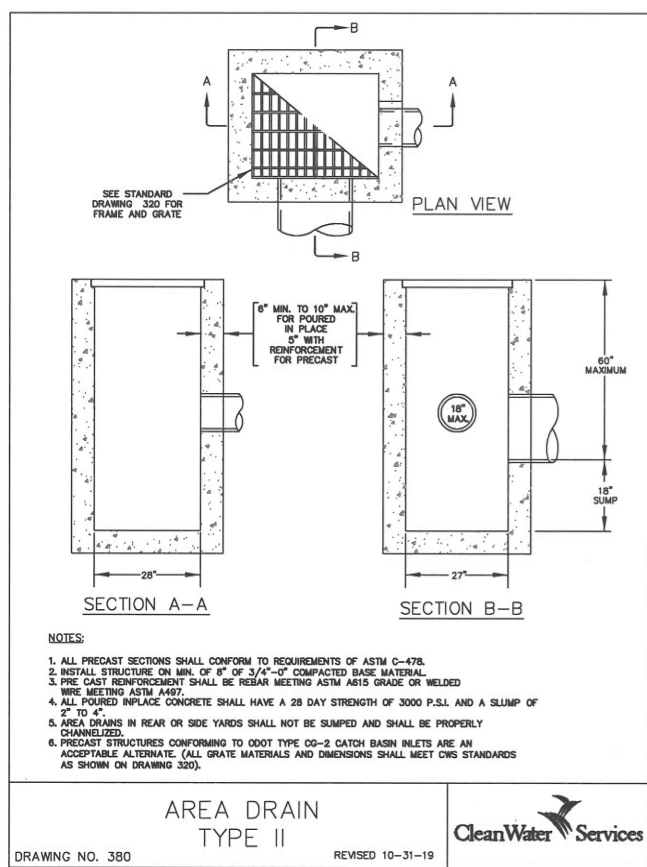
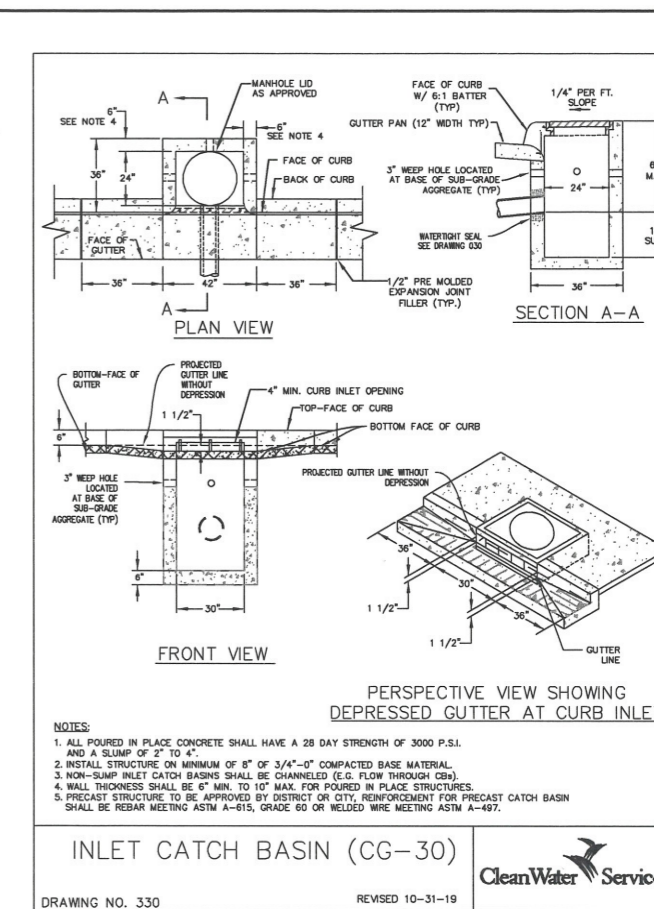
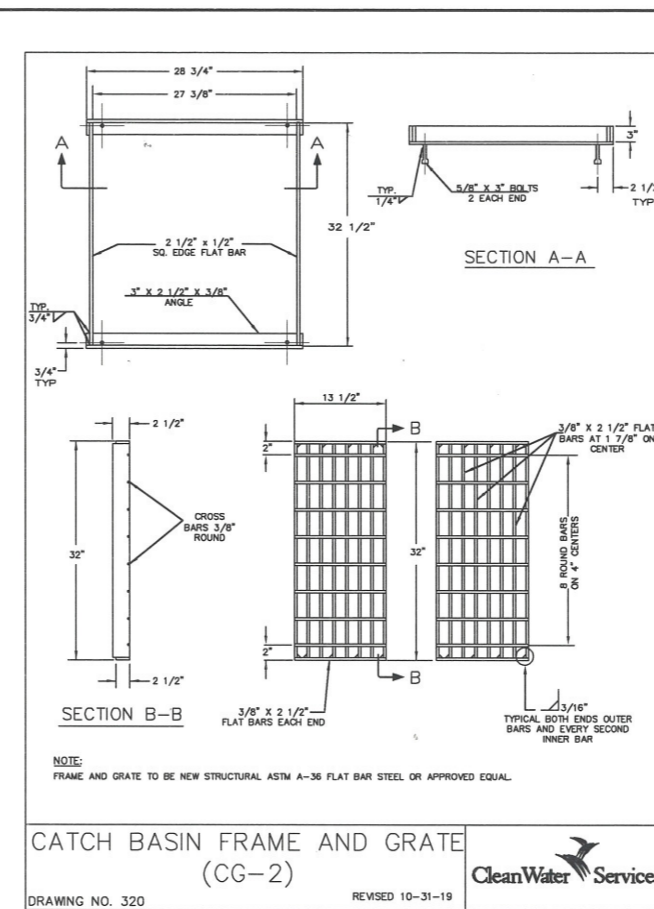
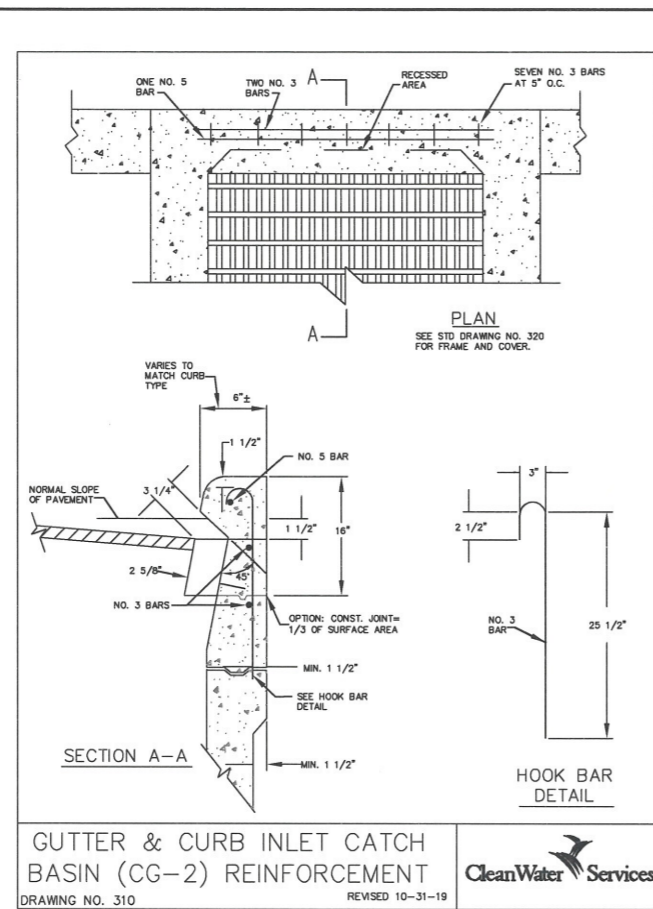
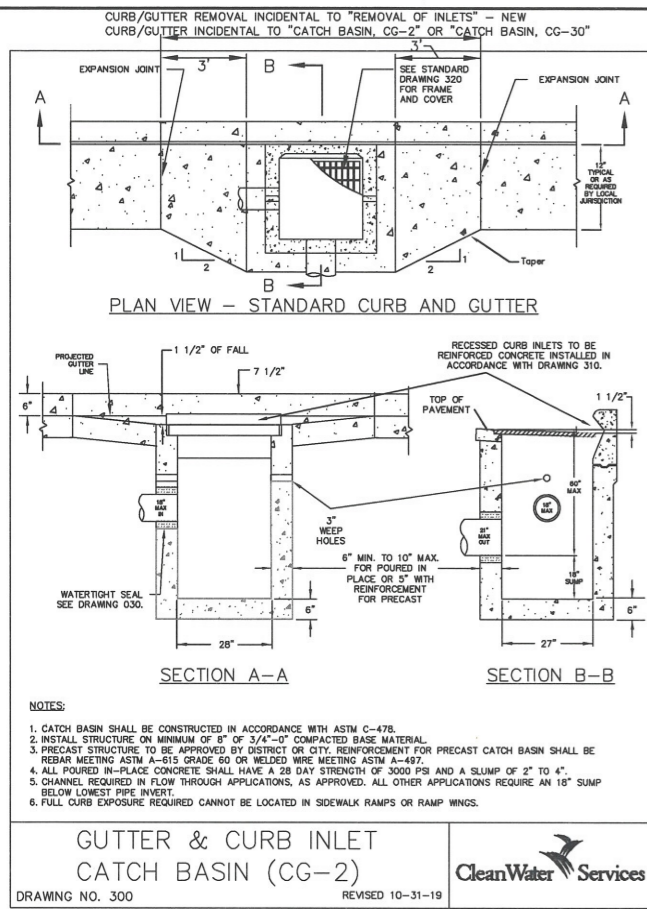
CITY OF SHERWOOD
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SHERWOOD, OREGON 97140
PHONE: (503) 925-2309
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E-MAIL: engineering@ci.sherwood.or.us

REGISTERED PROFESSIONAL ENGINEER
No. 17,104
Exp. 12/31/22
L. J. ORLANDO
P.E.
CRE 116 C. CHINA
EXPIRES: 12-31-23

DESIGNED BY:	CCC
DRAWN BY:	CCC
CHECKED BY:	RS/AS
FULL SIZE SCALE:	AS NOTED
DATE:	MARCH, 2022
LANGER DRIVE OVERLAY - SHEETS	

REVISIONS

JOB NO.	
SHEET NO.	7
of	9



LANGER DRIVE GRIND AND INLAY

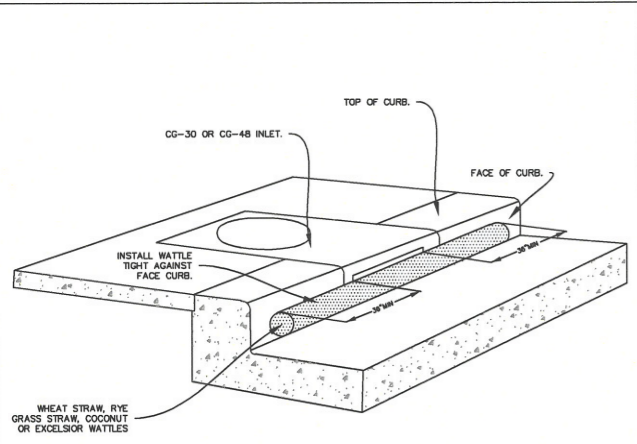
LOCATED IN SECTIONS 29C, T2S, R1W, W.M. IN THE CITY OF SHERWOOD, WASHINGTON COUNTY, STATE OF OREGON

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ENGINEERING DEPARTMENT
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DESIGNED BY:	CCC
DRAWN BY:	CCC
CHECKED BY:	RS/AS
FULL SIZE SCALE:	AS NOTED
DATE:	MARCH, 2021
LANGER DRIVE OVERLAY SHEETS	
JOB NO.	
SHEET NO.	8
	9

REVISIONS



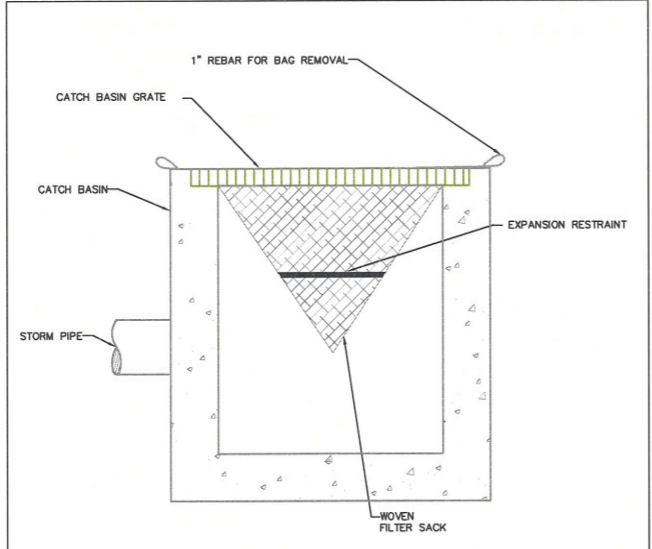
PERSPECTIVE VIEW SHOWING WATTLE ALONG GUTTER AT CURB INLET

- NOTES:**
- ONLY ALLOWED USE OF APPLICATION IS ON CURB AND GUTTER INLETS.
 - INSTALL WATTLE ALONG INLET WITH WATTLE EXTENDING A MIN OF 36" BEYOND INLET OPENINGS IN EACH DIRECTION.
 - WATTLE MUST BE INSTALLED TIGHTLY AGAINST CURB. MAY REQUIRE ADDITIONAL MEASURES TO ENSURE WATTLE REMAINS TIGHT AGAINST CURB, SUCH AS USING ZIP TIES TO SECURE WATTLE TO INLET'S TRASH BARS OR USING SANDBAGS TO WEIGHT DOWN WATTLE.
 - REPLACE WATTLE AS NECESSARY TO PREVENT SEDIMENT FROM ENTERING THE STORM SYSTEM.

CURB AND GUTTER INLET PROTECTION



DRAWING NO. 905 REVISED 10-31-19



CATCH BASIN INSERT

- NOTE:**
- RECESSED CURB INLET CATCH BASINS MUST BE BLOCKED WHEN USING FILTER FABRIC INLET SACKS. SIZE OF FILTER FABRIC INLET SACKS TO BE DETERMINED BY MANUFACTURER.
- FOR FURTHER INFORMATION ON DESIGN CRITERIA SEE CHAPTER 4 OF CLEAN WATER SERVICES EROSION PREVENTION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.

INLET PROTECTION TYPE 5



DRAWING NO. 920 REVISED 10-31-19

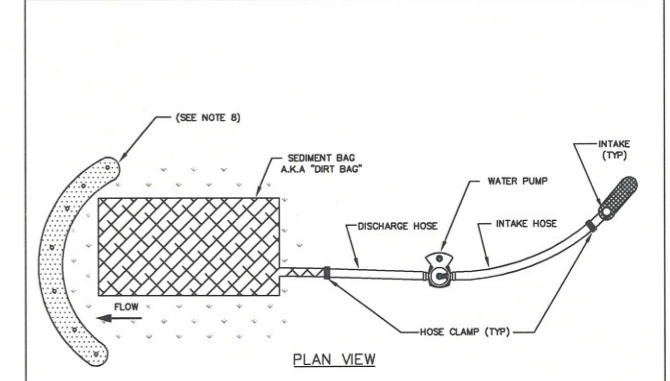
- GENERAL EROSION CONTROL NOTES:**
- COMPLY WITH ALL APPLICABLE PROVISIONS IN CHAPTER 6 OF THE DESIGN AND CONSTRUCTION STANDARDS (CURRENT); R&O 19-5 AS AMENDED BY R&O 19-22, ADOPTED NOVEMBER 12, 2019.
 - ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE DISCHARGED OVER AN UNDISTURBED, PREFERABLY VEGETATED AREA, AND THROUGH A SEDIMENT CONTROL BMP LIKE A FILTER BAG.
 - ALL EXPOSED SOILS MUST BE COVERED DURING WET WEATHER PERIOD, OCTOBER 1, - MAY 31.
 - HOLD A PRECONSTRUCTION MEETING WITH PROJECT CONSTRUCTION PERSONAL THAT INCLUDES THE INSPECTOR TO DISCUSS EROSION AND SEDIMENT CONTROL MEASURES AND CONSTRUCTION LIMITS.
- PRE-CONSTRUCTION, CLEARING, AND DEMOLITION NOTES:**
- SEDIMENT BARRIERS APPROVED FOR USE INCLUDE SEDIMENT FENCE, BERMS CONSTRUCTED OUT OF MULCH, CHIPPINGS, STRAW WATTLES OR OTHER APPROVED MATERIALS.
 - ALL BASE ESC MEASURES (INLET PROTECTION, PERIMETER SEDIMENT CONTROL, GRAVEL CONSTRUCTION ENTRANCES, ETC.) MUST BE IN PLACE, FUNCTIONAL AND APPROVED IN AN INITIAL INSPECTION PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
 - RUN-ON AND RUN-OFF SHALL BE IN PLACE AND FUNCTIONING PRIOR TO BEGINNING SUBSTANTIAL CONSTRUCTION ACTIVITIES.
 - RUN-ON AND RUN-OFF CONTROL MEASURES INCLUDE: SLOPE DRAINS (WITH OUTLET PROTECTION), CHECK DAMS, SURFACE ROUGHENING, AND BANK STABILIZATION.
- GRADING, STREET AND UTILITY EROSION AND SEDIMENT CONSTRUCTION NOTES:**
- IF VEGETATED SEED MIXES ARE SPECIFIED, SEEDING MUST TAKE PLACE NO LATER THAN SEPTEMBER 1ST. VEGETATED CORRIDOR AREAS REQUIRE NATIVE SEED MIXES. SEE RESTORATION PLAN FOR APPROPRIATE SEED MIX IN THOSE AREAS. SEED USED FOR TEMPORARY OR PERMANENT SEEDING OUTSIDE VEGETATED CORRIDORS SHALL BE COMPOSED OF ONE OF THE FOLLOWING MIXTURES, UNLESS OTHERWISE AUTHORIZED:

A. DWARF GRASS MIX (MIN. 100 LB./AC.)	B. STANDARD HEIGHT GRASS MIX (MIN. 100LB.AC)
1. DWARF PERENNIAL RYEGRASS (80% BY WEIGHT)	1. ANNUAL RYEGRASS (40% BY WEIGHT)
2. CREEPING RED FESCUE (20% BY WEIGHT)	2. TURF-TYPE FESCUE (60% BY WEIGHT)
 - SLOPE TO RECEIVE TEMPORARY OR PERMANENT SEEDING 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.
 - LONG TERM SLOPE STABILIZATION MEASURES SHALL INCLUDE THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER VIA SEEDING WITH APPROVED MIX AND APPLICATION RATE.
 - TEMPORARY SLOPE STABILIZATION MEASURES SHALL INCLUDE: COVERING EXPOSED SOIL WITH PLASTIC SHEETING, STRAW MULCHING, WOOD CHIPS, OR OTHER APPROVED MEASURES.
 - STOCKPILED SOIL OR STRIPPINGS SHALL BE PLACED IN A STABLE LOCATION AND CONFIGURATION. DURING "WET WEATHER" PERIODS, STOCKPILES SHALL BE COVERED WITH PLASTIC SHEETING OR STRAW MULCH. SEDIMENT FENCE IS REQUIRED AROUND THE PERIMETER OF THE STOCKPILE.
 - 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.
 - 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.
 - 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 ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
 - USE BMPs SUCH AS CHECK-DAMS, BERMS, AND INLET PROTECTION TO PREVENT RUN-OFF FROM REACHING DISCHARGE POINTS.
 - COVER CATCH BASINS, MANHOLES AND OTHER DISCHARGE POINTS WHEN APPLYING SEAL COAT, TACT COAT ETC. TO PREVENT PRODUCTS FROM ENTERING THE STORM SYSTEM.
- EROSION AND SEDIMENT CONTROL BMP IMPLEMENTATION:**
- ALL SEDIMENT BARRIERS TO BE INSTALLED AFTER GRADING SHALL BE INSTALLED IMMEDIATELY FOLLOWING ESTABLISHMENT OF FINISHED GRADE AS SHOWN ON THESE PLANS.
 - LONG TERM SLOPE STABILIZATION MEASURES "INCLUDING MATTING" SHALL BE IN PLACE OVER ALL EXPOSED SOILS BY OCTOBER 1.
 - THE STORM WATER FACILITY SHALL BE CONSTRUCTED AND LANDSCAPED PRIOR TO THE STORM WATER SYSTEM FUNCTIONING AND SITE PAVING.
 - INLET PROTECTION SHALL BE IN-PLACE IMMEDIATELY FOLLOWING PAVING ACTIVITIES.

STANDARD EROSION CONTROL NOTES FOR SITES 1 ACRE AND GREATER



DRAWING NO. 946 REVISED 6-30-21



- NOTES:**
- THE SEDIMENT BAG SHALL BE MANUFACTURED USING A POLYPROPYLENE 8 OZ. NON-WOVEN GEOTEXTILE SEWN INTO A BAG WITH A DOUBLE NEEDLE, USING A HIGH STRENGTH THREAD.
 - EACH STANDARD SEDIMENT BAG MUST HAVE A FILL SPOUT LARGE ENOUGH TO ACCOMMODATE A 4" DISCHARGE HOSE. STRAPS ARE ATTACHED TO SECURE THE HOSE AND PREVENT PUMPED WATER FROM ESCAPING WITHOUT BEING FILTERED.
 - THE SEDIMENT BAG SHALL MEET OR EXCEED OVERALL BAG REMOVAL EFFICIENCY RATE OF 97.55%.
 - WATER BEING DISCHARGED FROM THE SEDIMENT BAG MUST BE FREE OF ALL SEDIMENT PRIOR TO LEAVING THE SITE OR ENTERING INTO THE STORM SYSTEM.
 - SEDIMENT BAG IS FULL WHEN IT NO LONGER CAN EFFICIENTLY FILTER SEDIMENT OR ALLOW WATER TO PASS AT A RATE LESS THAN 50% OF MANUFACTURER'S DESIGNED FLOW RATE.
 - DURING USE, THE SEDIMENT BAG MUST BE MONITORED.
 - DISPOSE OF USED SEDIMENT BAG OFF SITE OR AS APPROVED BY CWS.
 - WHEN APPROPRIATE, INSTALL DOWNSTREAM SEDIMENT CONTROL MEASURES PER CWS STANDARDS.
 - FOR BEST RESULTS, PLACE SEDIMENT BAG ON FLAT SURFACE.
 - SEDIMENT BAG SHOULD BE PLACED ON EXISTING VEGETATION, ROCK, OR BED OF STRAW. SEDIMENT BAG SHOULD NOT BE PLACED ON BARE GROUND.

SEDIMENT BAG



DRAWING NO. 950 REVISED 10-31-19

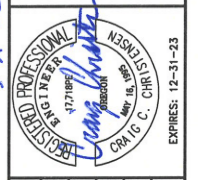
EROSION CONTROL DETAILS

LANGER DRIVE GRIND AND INLAY

 LOCATED IN SECTIONS 29G, T2S, R1W, W.M. IN SHERWOOD, WASHINGTON COUNTY, THE CITY OF OREGON

CITY OF SHERWOOD
 ENGINEERING DEPARTMENT
 22560 SW PINE STREET
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of	9

3-31-22