

# CITY OF SHERWOOD

## TUALATIN STREET AND HIGHLAND DRIVE STORM SEWER AND PAVEMENT REHABILITATION

MARCH 2016

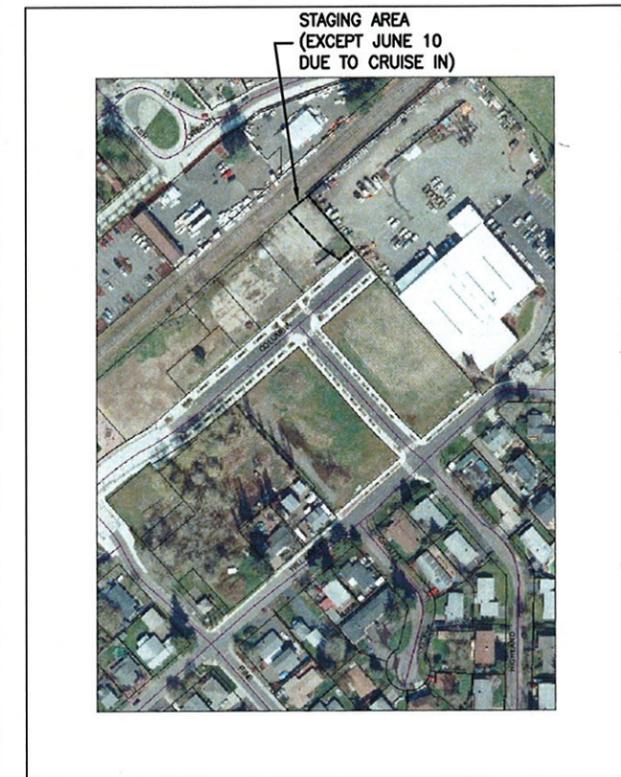
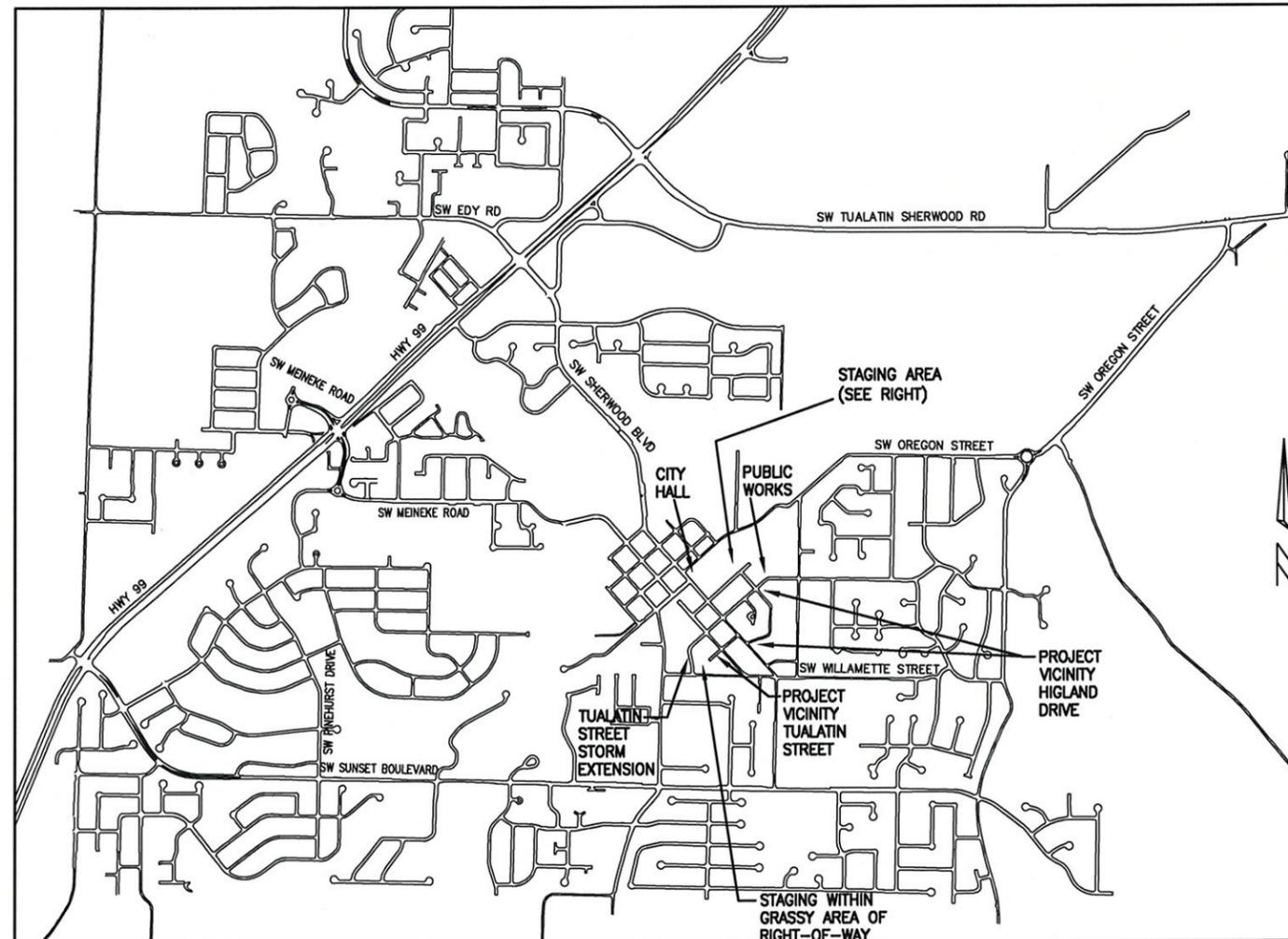
(BID DOCUMENT VOLUME 2 OF 2 - CONTRACT DRAWINGS)

**PROJECT LOCATION:**  
 SW HIGHLAND DRIVE BETWEEN  
 SW WILLAMETTE STREET AND SW PINE STREET  
 AND SW TUALATIN STREET  
 SOUTHWEST OF SW WASHINGTON STREET

**DEVELOPER/OWNER:**  
 CITY OF SHERWOOD  
 22560 SW PINE ST  
 SHERWOOD, OREGON 97140  
 CONTACT: CRAIG CHRISTENSEN  
 PH. 503-925-2311  
 CHRISTENSENC@SHERWOODOREGON.GOV

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- EXISTING CONDITIONS MAP (TUALATIN STREET)  
 EXISTING CONDITIONS MAP (HIGHLAND DRIVE)



**HIGHLAND DRIVE STAGING AREA**  
 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.



**VICINITY MAP**  
 NOT TO SCALE

**INSPECTOR INFORMATION:**

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

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.

COVER SHEET

TUALATIN STREET AND HIGHLAND DRIVE  
 STORM SEWER AND PAVEMENT REHABILITATION  
 LOCATED IN SECTION 32BD, T2S, R1W, W.M.  
 IN THE CITY OF SHERWOOD,  
 WASHINGTON COUNTY, STATE OF OREGON

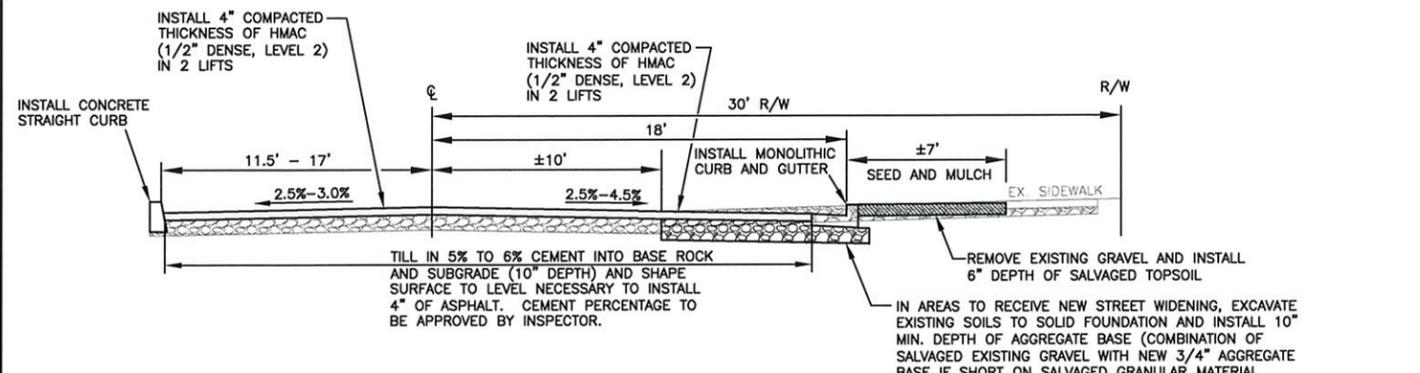
CITY OF SHERWOOD  
 ENGINEERING DEPARTMENT  
 22560 SW PINE STREET  
 SHERWOOD, OREGON 97140  
 PHONE: (503) 925-2309  
 FAX: (503) 625-0629  
 E-MAIL: engineering@sherwoodoregon.gov



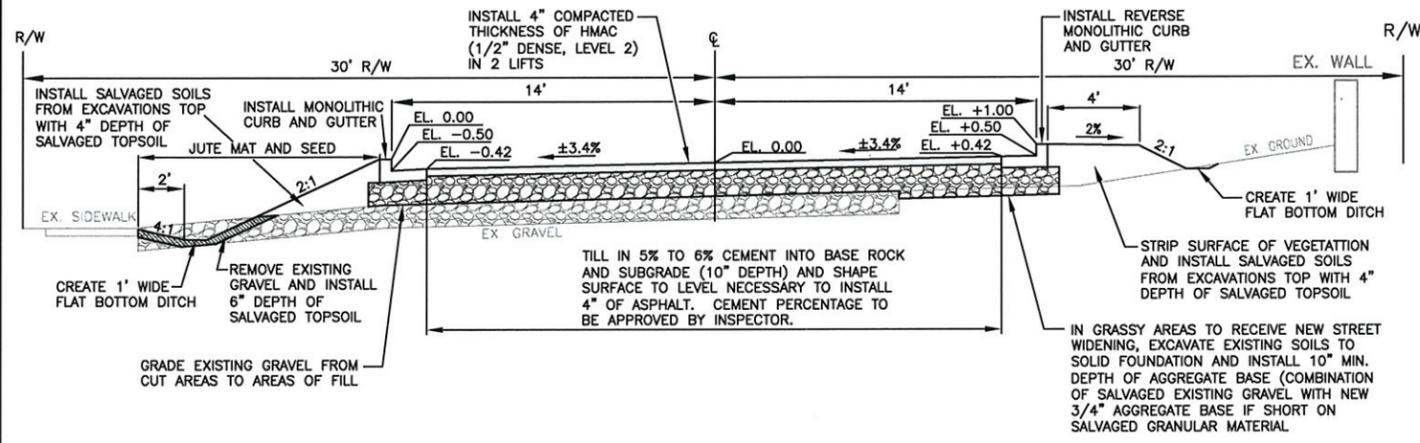
DESIGNED BY:	CCC
DRAWN BY:	CCC
CHECKED BY:	RS
FULL SIZE SCALE:	AS NOTED
DATE:	MARCH, 2016
HIGHLAND DRIVE_SHEETS.DWG	

NO.	DATE	DESCRIPTION

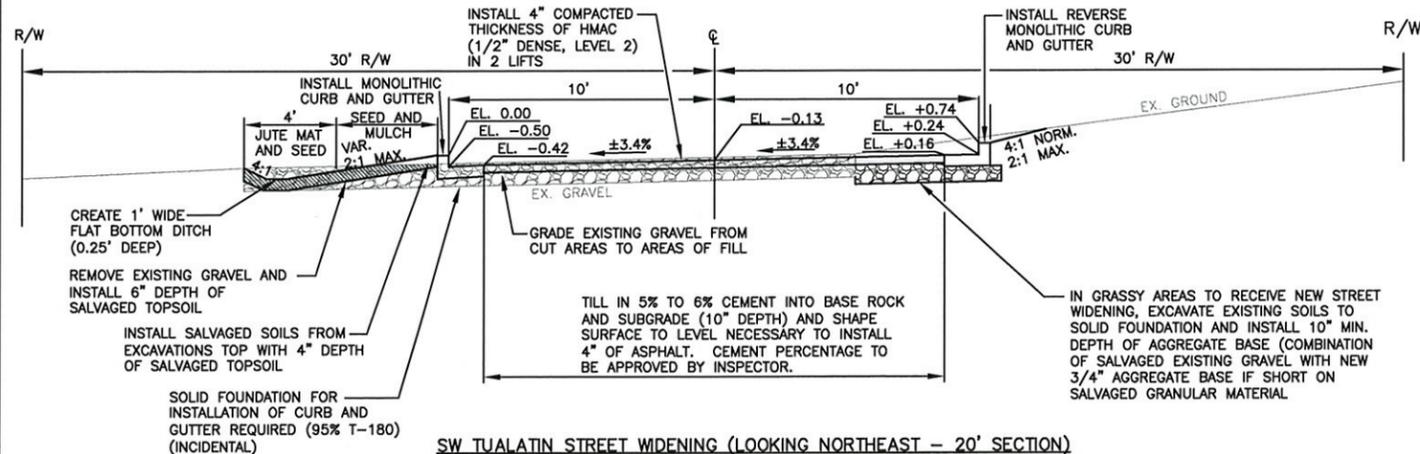




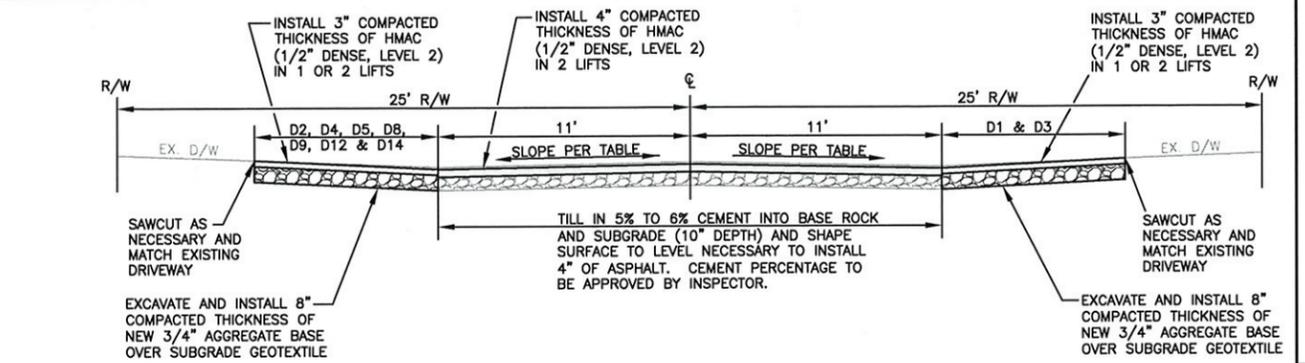
SW WASHINGTON STREET (LOOKING SOUTHEAST)



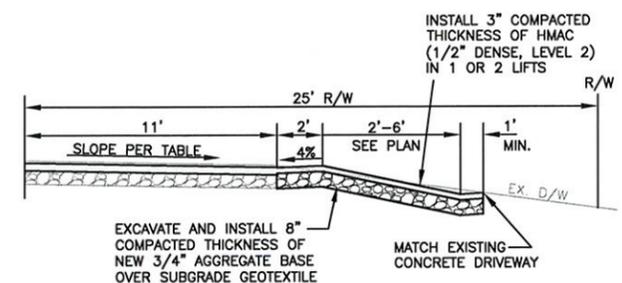
SW TUALATIN STREET WIDENING (LOOKING NORTHEAST - 28' SECTION)



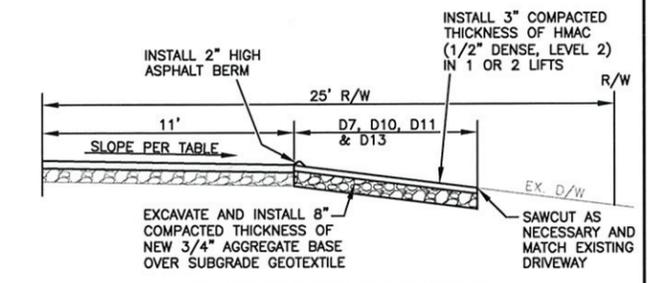
SW TUALATIN STREET WIDENING (LOOKING NORTHEAST - 20' SECTION)



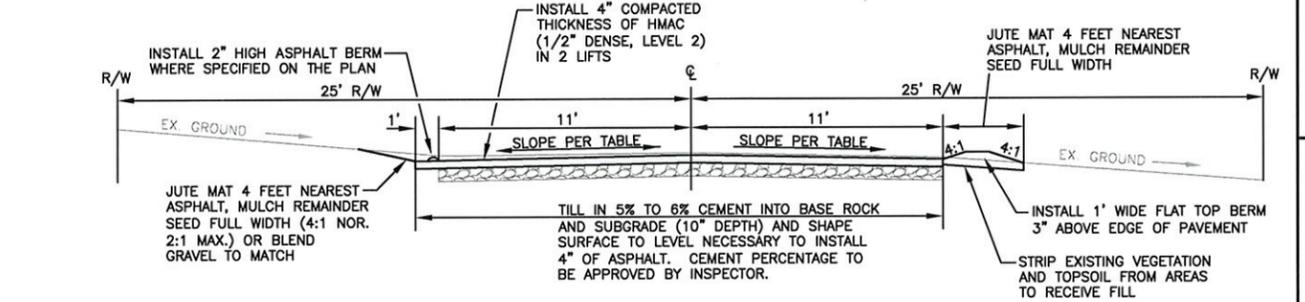
SW HIGHLAND DRIVE STREET SECTION WITH ADJACENT ASPHALT



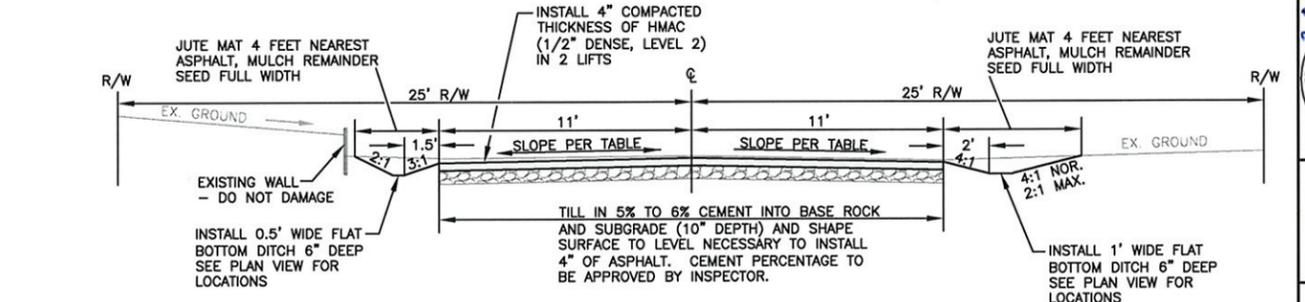
SW HIGHLAND DRIVE DRIVEWAY SECTION AT D6



SW HIGHLAND DRIVE DRIVEWAY WITH ASPHALT BERM



SW HIGHLAND DRIVE STREET SECTION WITHOUT DITCH



SW HIGHLAND DRIVE STREET SECTION WITH DITCH

**STREET SECTION NOTES**  
 COMPACT SUBGRADE TO 95% DENSITY OF AASHTO T-99 TEST METHOD.  
 COMPACT ALL BASE ROCK TO 95% DENSITY OF AASHTO T-180 TEST METHOD.  
 COMPACT ALL ASPHALT TO 92% RICE METHOD.  
 FILL OUTSIDE OF CURBS TO BE COMPACTED TO 90% DENSITY OF AASHTO T-180 TEST METHOD.  
 REMOVE EXISTING ASPHALT AND BASE ROCK AS NECESSARY FOR CEMENT TREATMENT AND NEW ASPHALT TO ACHIEVE FINAL GRADES SHOWN IN THE PLANS.  
 IF THERE IS NOT ENOUGH EXISTING AGGREGATE TO ACHIEVE THE FINISH GRADE SHOWN ON THE PLANS, THEN ADDITIONAL 3/4"-0" BASE AGGREGATE SHALL BE ADDED TO ACHIEVE NECESSARY GRADES FOR CEMENT TREATMENT.

SW HIGHLAND DRIVE CROSS SLOPE TABLE			
STATIONS	CROSS SLOPE LEFT	STATIONS	CROSS SLOPE RIGHT
10+31.00	MATCH EXISTING	10+31.00	MATCH EXISTING
10+31.00 TO 10+45.00	EX. TO 2%	10+31.00 TO 10+45.00	EX. TO 2%
10+45.00 TO 14+95.86	2%	10+45.00 TO 10+70.00	2% TO 3%
14+95.86 TO 15+39.86	2% TO 2%	10+70.00 TO 15+06.00	3%
15+39.86 TO 15+61.86	2% TO 4%	15+06.00 - 15+28.00	3% TO 4%
15+61.86 TO 16+15.21	4%	15+28.00 - 16+15.21	4%
16+15.21 TO 16+37.21	4% TO 2%	16+15.21 - 16+37.21	4% TO 3%
16+37.21 TO 16+81.21	2% TO 2%	16+37.21 - 17+70.00	3%
16+81.21 TO 17+40.00	2%	17+70.00 - 17+90.00	3% TO EX.
17+40.00 TO 17+90.00	2% TO EX.	17+90.00	MATCH EXISTING
17+90.00	MATCH EXISTING		

TUALATIN STREET AND HIGHLAND DRIVE  
 STORM SEWER AND PAVEMENT REHABILITATION

CITY OF SHERWOOD  
 ENGINEERING DEPARTMENT  
 SHERWOOD, OREGON 97140

PHONE: (503) 925-2309  
 FAX: (503) 625-0629  
 E-MAIL: engineering@sherwoodoregon.gov

DESIGNED BY: CC  
 DRAWN BY: AS  
 CHECKED BY: RS  
 FULL SIZE SCALE: AS NOTED  
 DATE: MARCH, 2016

REVISIONS

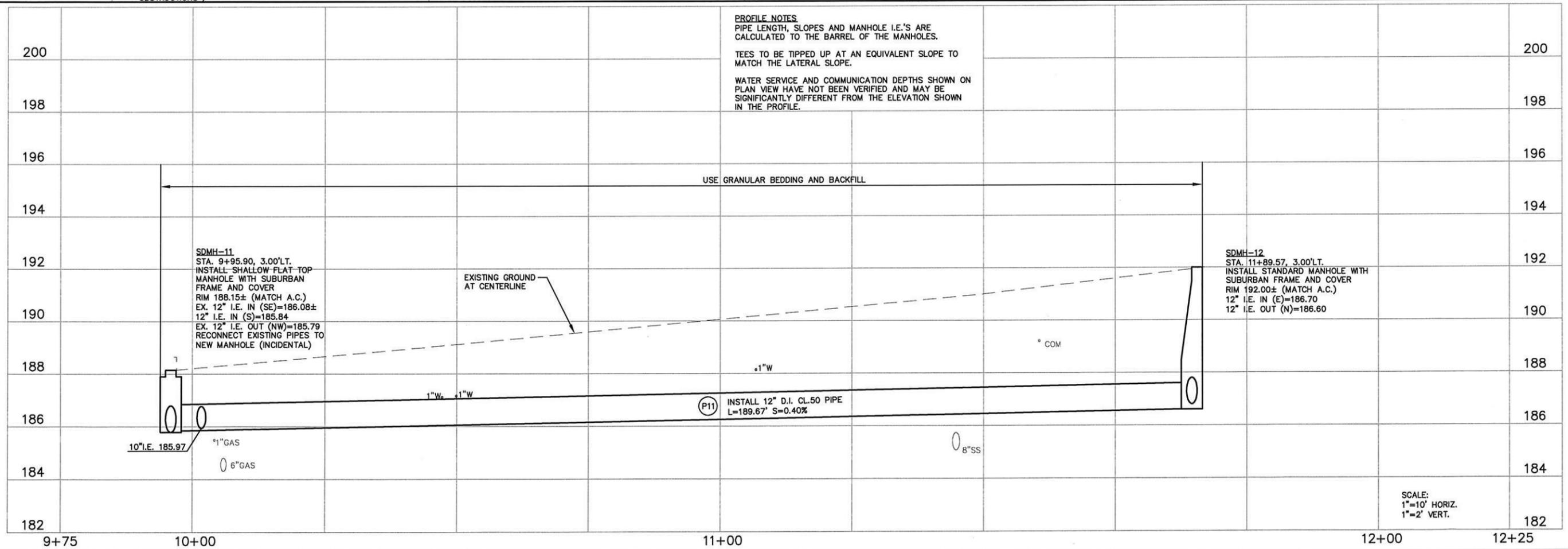
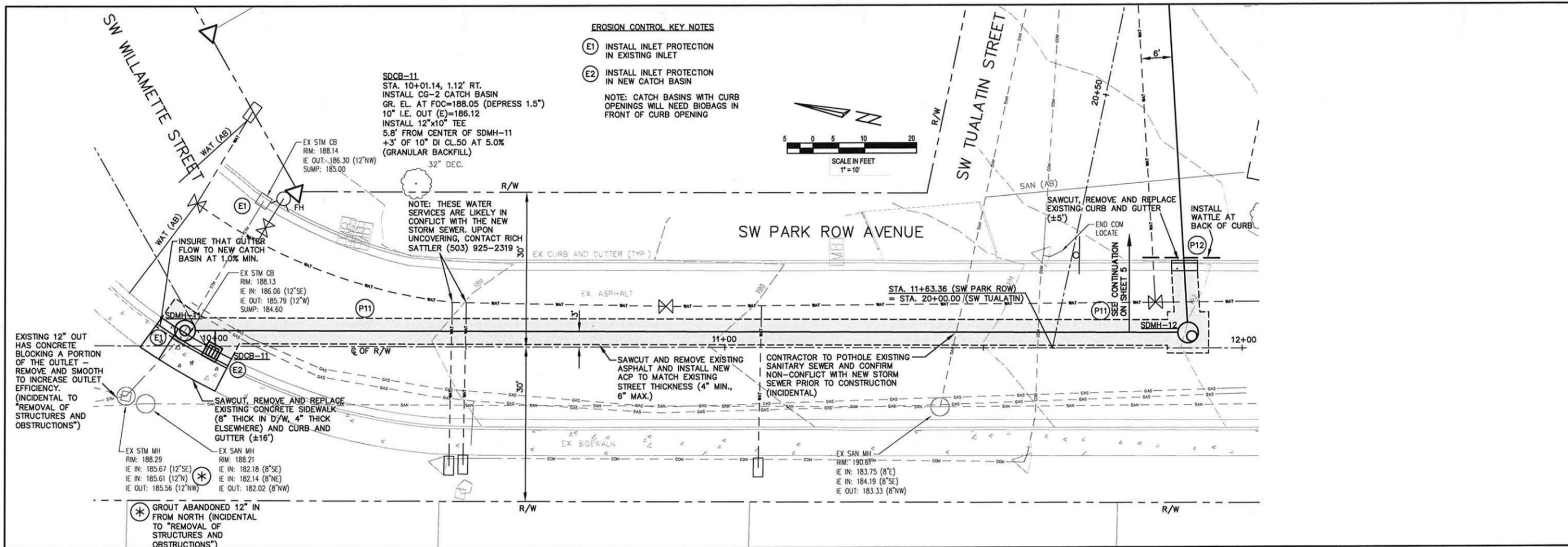
NO.	DATE	DESCRIPTION

JOB NO. \_\_\_\_\_  
 SHEET NO. **3**  
 OF 14

TYPICAL SECTIONS

LOCATED IN SECTION 32BD, T2S, R1W, W.M.  
 IN THE CITY OF SHERWOOD,  
 WASHINGTON COUNTY, STATE OF OREGON

APPROVED FOR CONSTRUCTION



**SW PARK ROW STORM PLAN AND PROFILE**

**TUALATIN STREET AND HIGHLAND DRIVE STORM SEWER AND PAVEMENT REHABILITATION**

LOCATED IN SECTION 32B0, 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) 925-0629  
 E-MAIL: engineering@ci.sherwood.or.us

**PROFESSIONAL ENGINEER**  
 REGISTERED PROFESSIONAL ENGINEER  
 STATE OF OREGON  
 No. 17777  
 EXP. 12-31-17

DESIGNED BY:	DCC
DRAWN BY:	DCC
CHECKED BY:	RS
FULL SIZE SCALE:	1"=10'
DATE:	MARCH, 2016

HIGHLAND DRIVE-SHEETS.DWG

REVISIONS

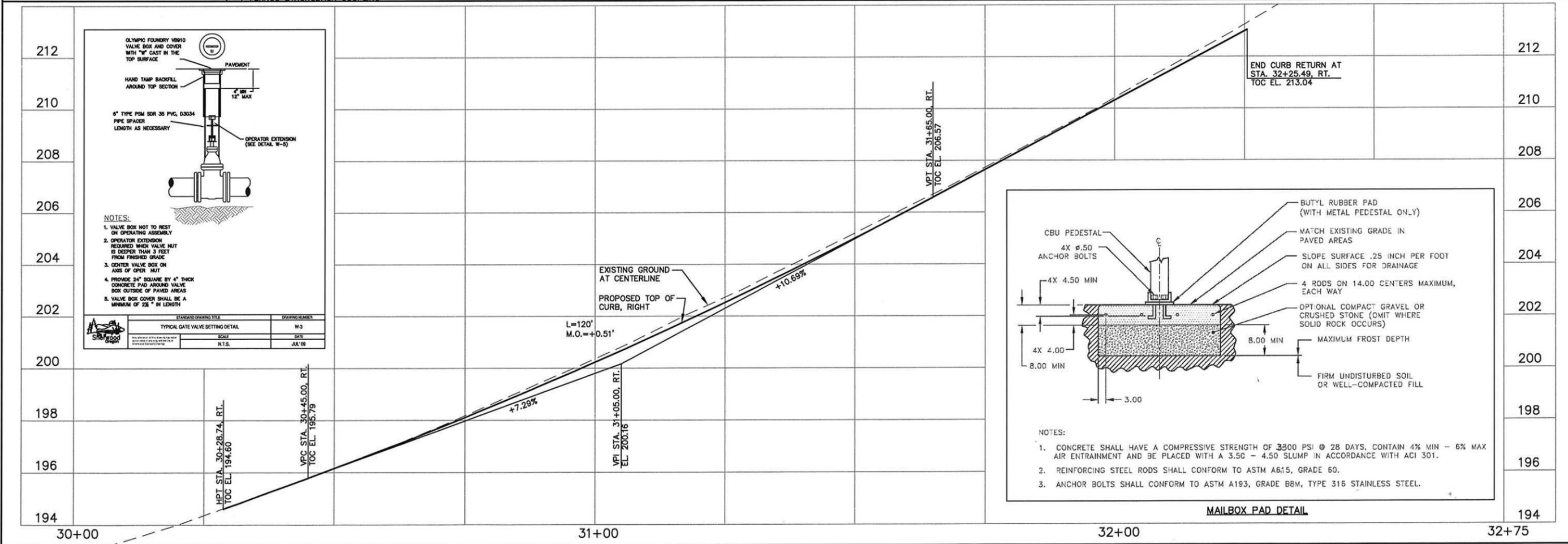
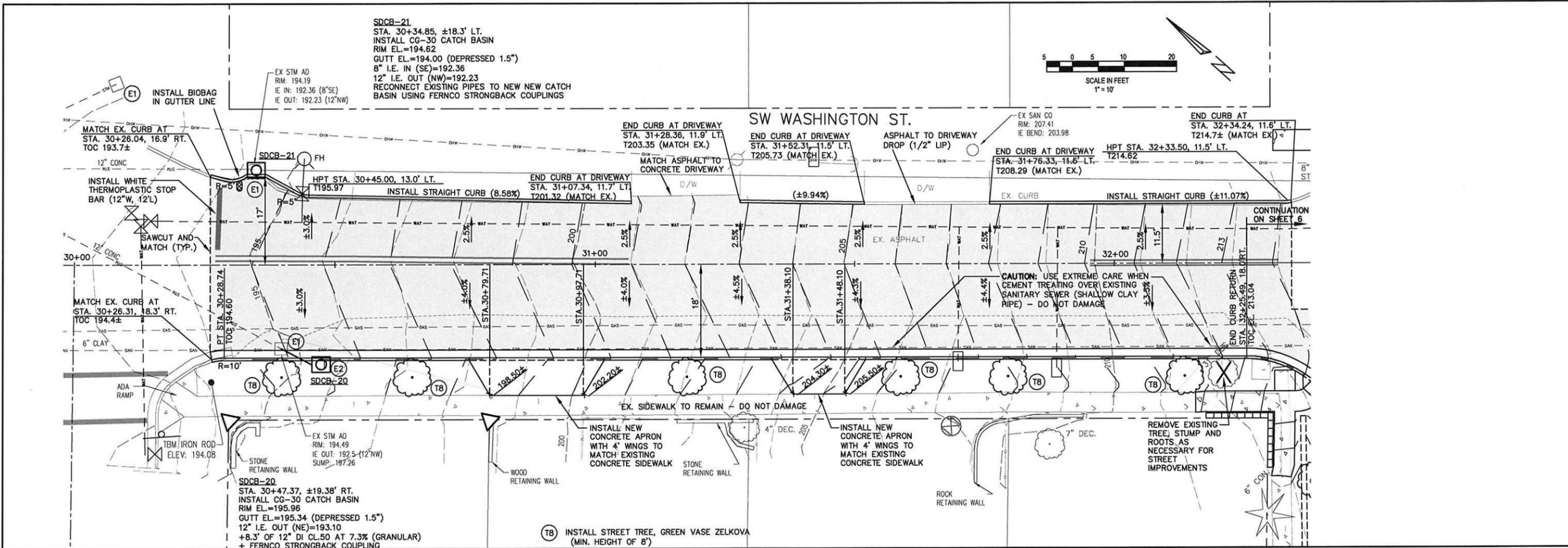
NO.	DATE	DESCRIPTION
1		
2		
3		
4		

JOB NO. \_\_\_\_\_

SHEET NO. **4** OF **14**







**SW HIGHLAND DRIVE STREET PLAN AND PROFILE**

**TUALATIN STREET AND HIGHLAND DRIVE STORM SEWER AND PAVEMENT REHABILITATION**

LOCATED IN SECTION 32BD, T2S, R1W, W.M. IN THE CITY OF SHERWOOD, WASHINGTON COUNTY, STATE OF OREGON

**CITY OF SHERWOOD**  
 ENGINEERING DEPARTMENT  
 22550 SW PINE STREET  
 SHERWOOD, OREGON 97140  
 PHONE: (503) 925-2309  
 FAX: (503) 625-0629  
 E-MAIL: engineering@shermoregon.gov

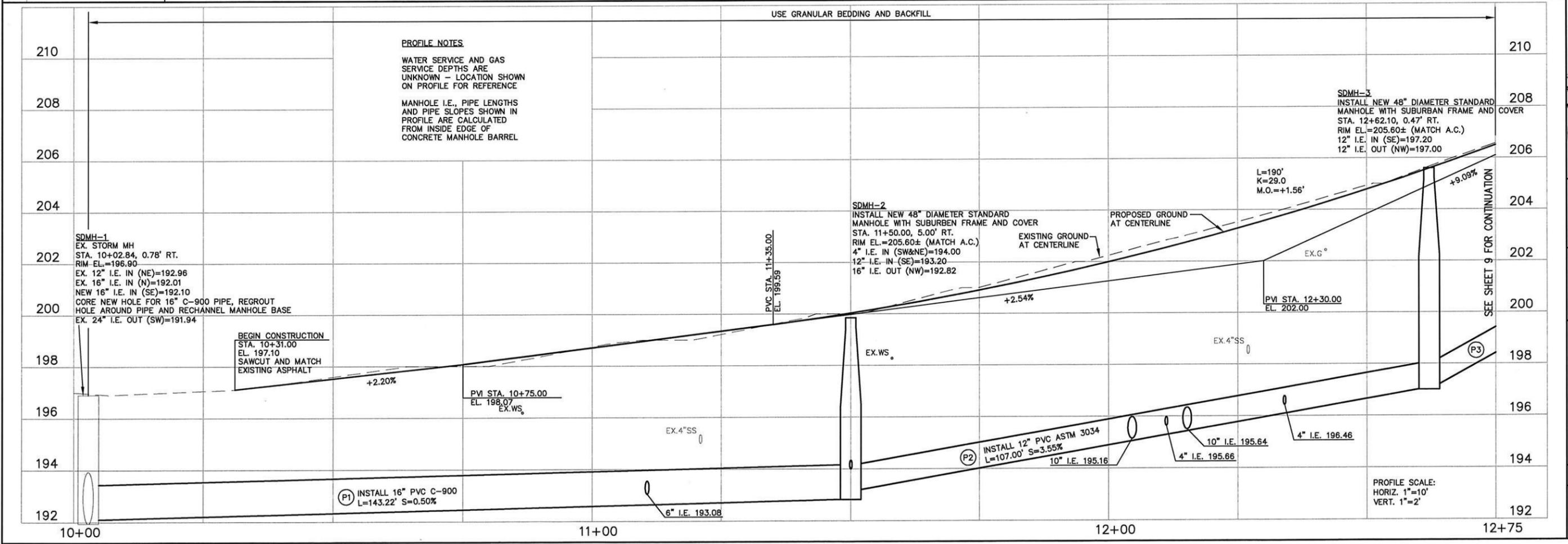
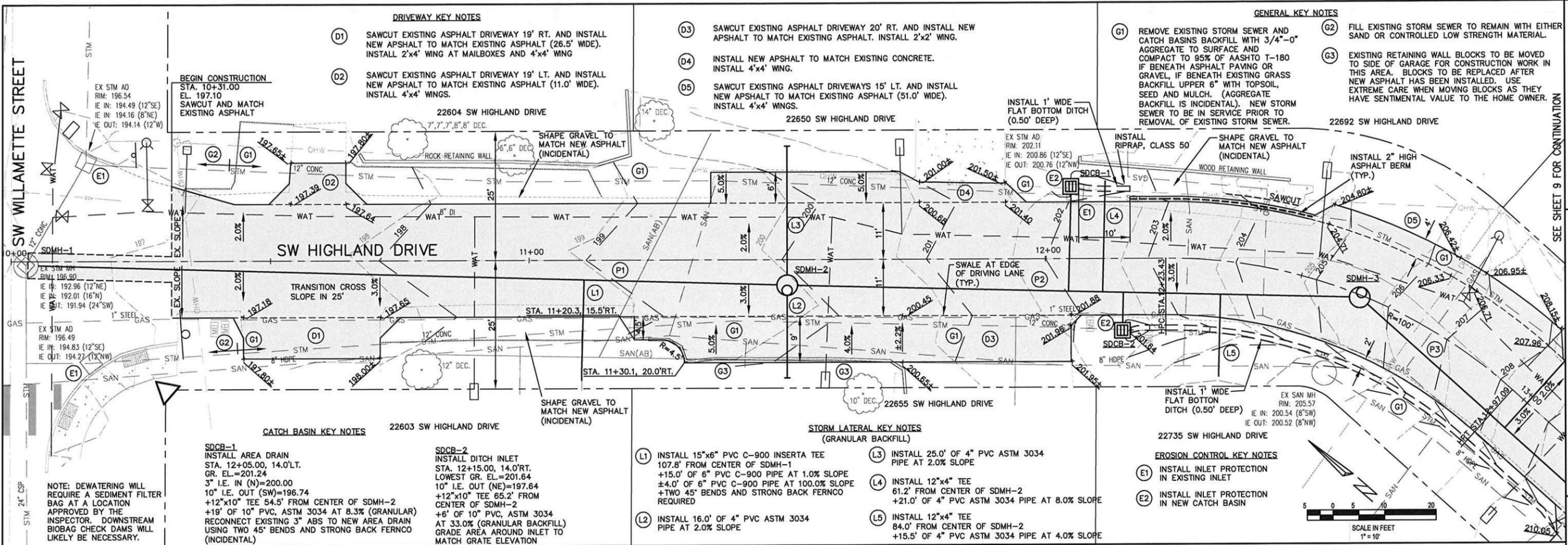
**PROFESSIONAL ENGINEER**  
 STATE OF OREGON  
 No. 1774  
 Date: 03/16/16  
 C. C. ORR

EXPRES: 12-31-17

DESIGNED BY:	CC
DRAWN BY:	CC
CHECKED BY:	RS
FULL SIZE SCALE:	1" = 10'
DATE:	MARCH, 2016
HIGHLAND SHEETS	

**REVISIONS**

JOB NO.	
SHEET NO.	7
OF	14



**SW HIGHLAND DRIVE - NORTH**

**TUALATIN STREET AND HIGHLAND DRIVE**  
**STORM SEWER AND PAVEMENT REHABILITATION**

LOCATED IN SECTION 32B2, T2S, R1W, W4M,  
 IN THE CITY OF SHERWOOD,  
 WASHINGTON COUNTY, STATE OF OREGON

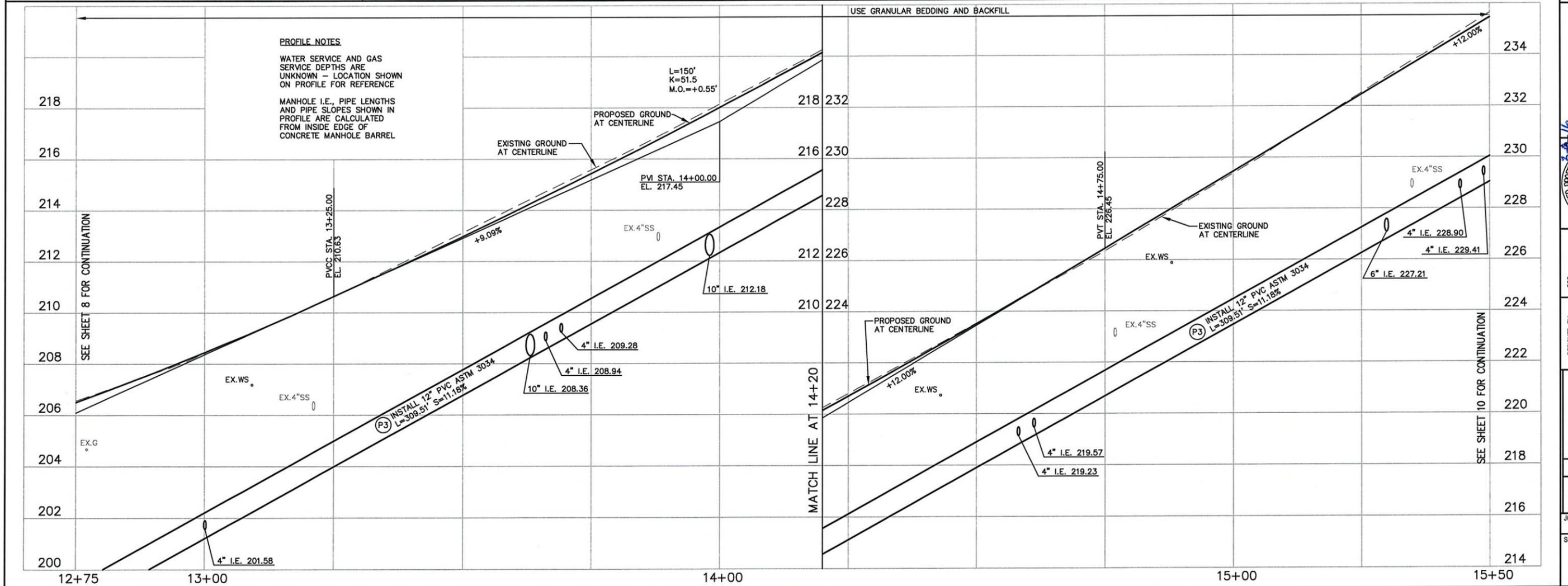
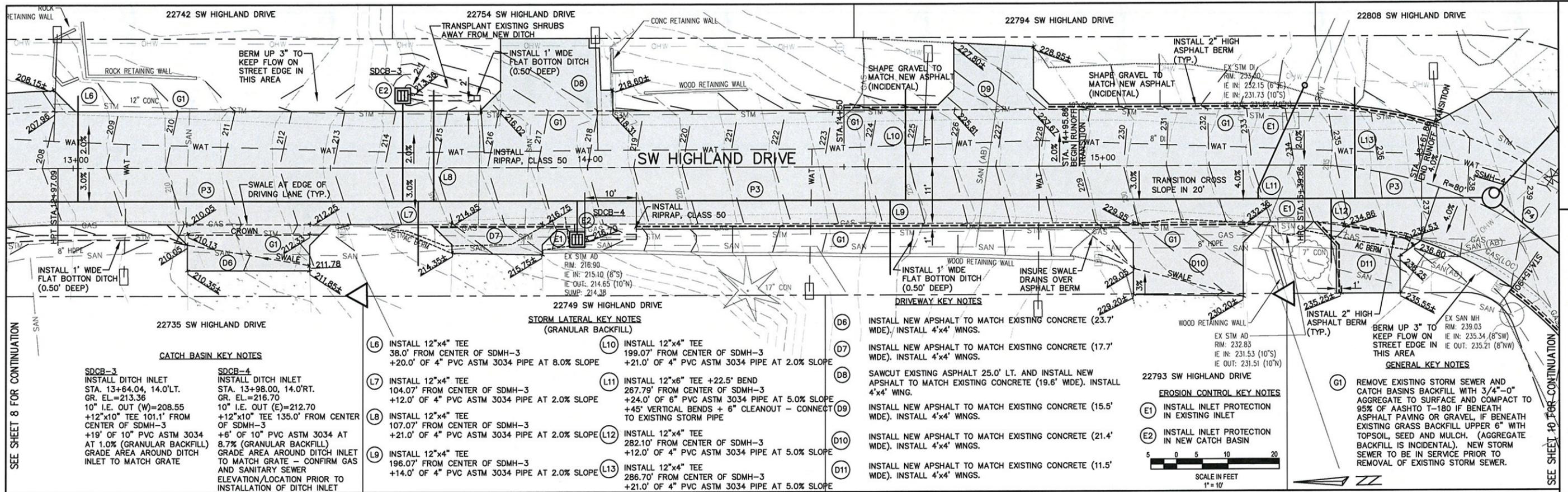
**CITY OF SHERWOOD**  
 ENGINEERING DEPARTMENT  
 22560 SW PINE STREET  
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 E-MAIL: engineering@sherwoodoregon.gov

DESIGNED BY: CCC  
 DRAWN BY: CCC  
 CHECKED BY: RS  
 FULL SIZE SCALE: 1"=10'  
 DATE: MARCH, 2016  
 HIGHLAND DRIVE\_SHEETS.DWG

REVISIONS	
NO.	DESCRIPTION

JOB NO. \_\_\_\_\_ SHEET NO. **8** OF **14**

SEE SHEET 9 FOR CONTINUATION



**SW HIGHLAND DRIVE  
PLAN AND PROFILE - MIDDLE**

**TUALATIN STREET AND HIGHLAND DRIVE  
STORM SEWER AND PAVEMENT REHABILITATION**

LOCATED IN SECTION 32BD, T2S, R1W, W4M,  
IN THE CITY OF SHERWOOD,  
WASHINGTON COUNTY, STATE OF OREGON

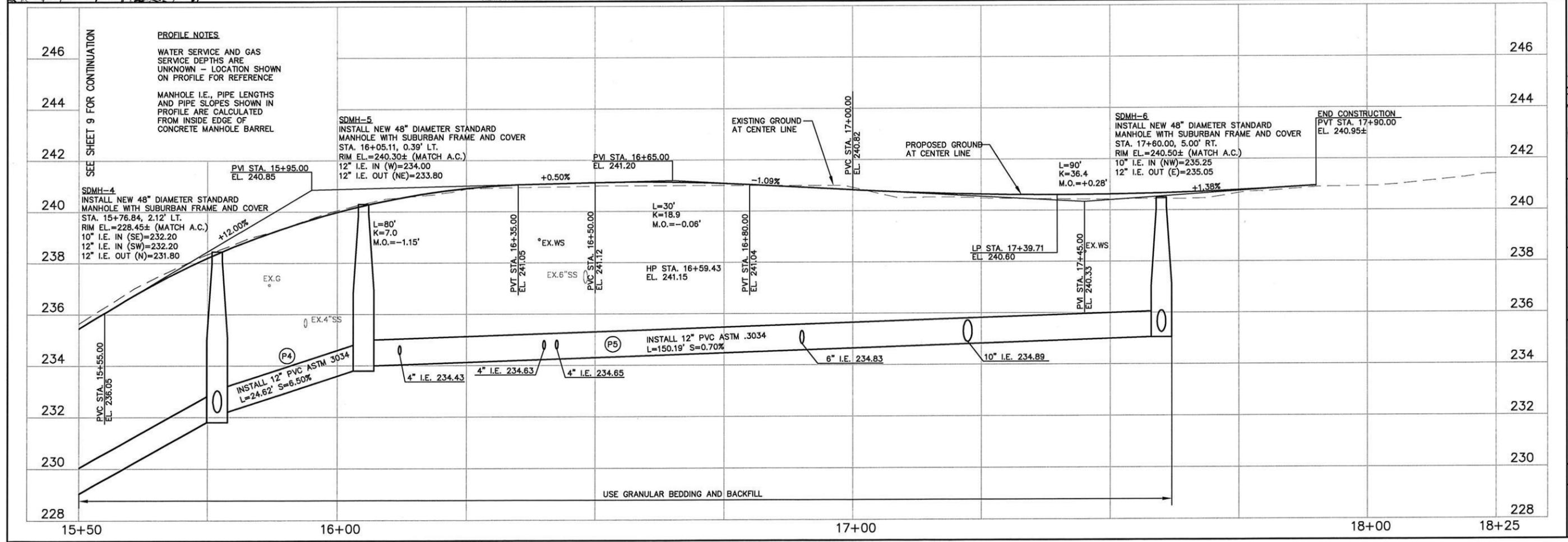
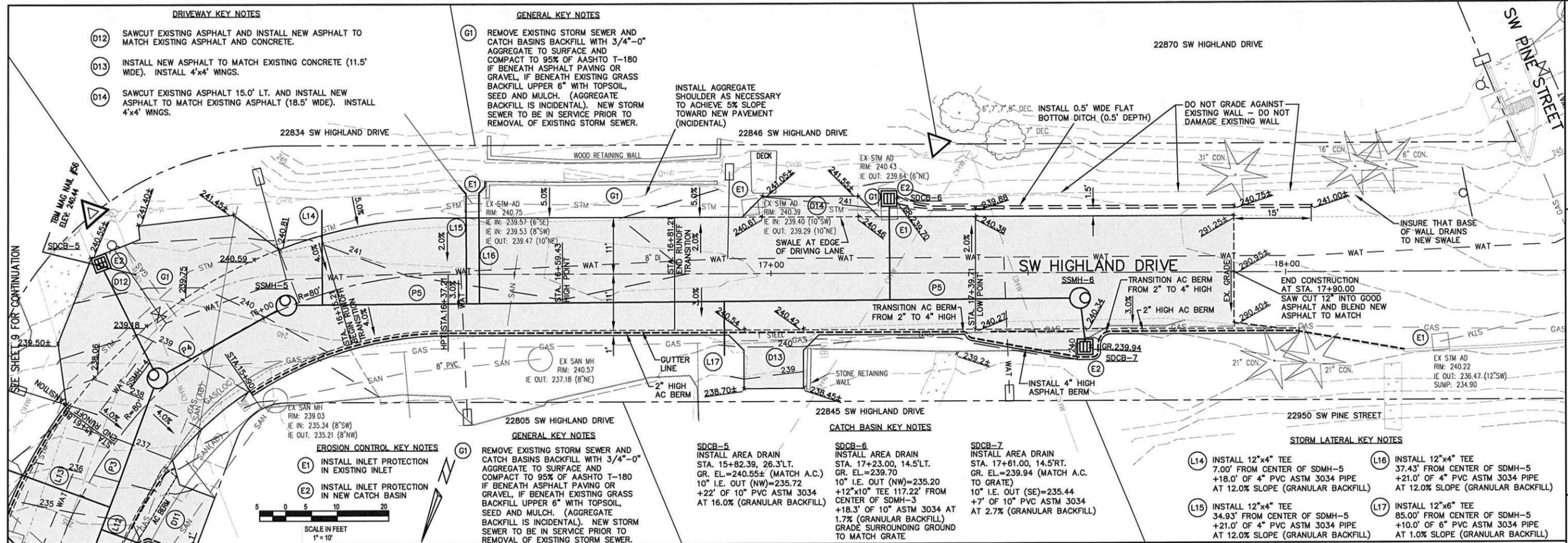
**CITY OF SHERWOOD**  
ENGINEERING DEPARTMENT  
22560 SW PINE STREET  
SHERWOOD, OREGON 97140  
PHONE: (503) 925-2309  
FAX: (503) 625-0629  
E-MAIL: engineering@ci.sherwood.oregon.gov

**PROFESSIONAL ENGINEER**  
JERRY CHAPMAN  
No. 11515  
OREGON  
C. CHRIS  
EXP. 12-31-17

DESIGNED BY:	CCC
DRAWN BY:	CCC
CHECKED BY:	RS
FULL SIZE SCALE:	1"=10'
DATE:	MARCH, 2016
HIGHLAND DRIVE_SHEETS.DWG	

REVISIONS

JOB NO.	
SHEET NO.	9
	14



**SW HIGHLAND DRIVE  
PLAN AND PROFILE SOUTH**

**TUALATIN STREET AND HIGHLAND DRIVE  
STORM SEWER AND PAVEMENT REHABILITATION**

LOCATED IN SECTION 32BD, T2S, R1W, W.M.  
IN THE CITY OF SHERWOOD,  
WASHINGTON COUNTY, STATE OF OREGON

**CITY OF SHERWOOD  
ENGINEERING DEPARTMENT  
22850 SW PINE STREET  
SHERWOOD, OREGON 97140**

PHONE: (503) 925-2309  
FAX: (503) 625-0629  
E-MAIL: engineering@ci.sherwood.oregon.gov

DESIGNED BY: [Signature]  
DRAWN BY: [Signature]  
CHECKED BY: [Signature]  
FULL SIZE SCALE: 1"=10'  
DATE: MARCH, 2016  
HIGHLAND\_DRIVE\_SHEETS

JOB NO. [Blank]  
SHEET NO. **10**  
OF **14**

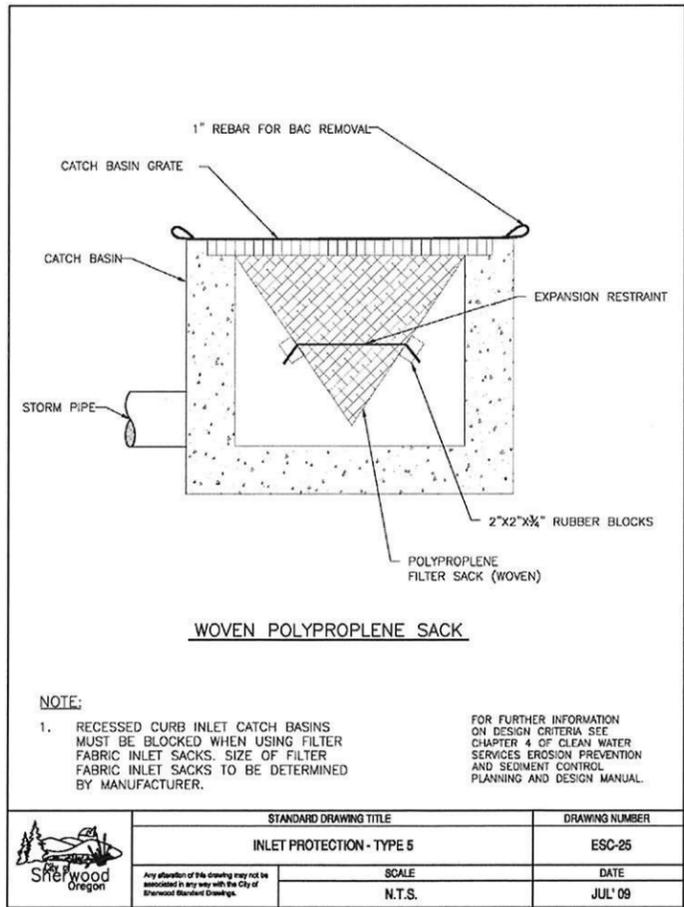
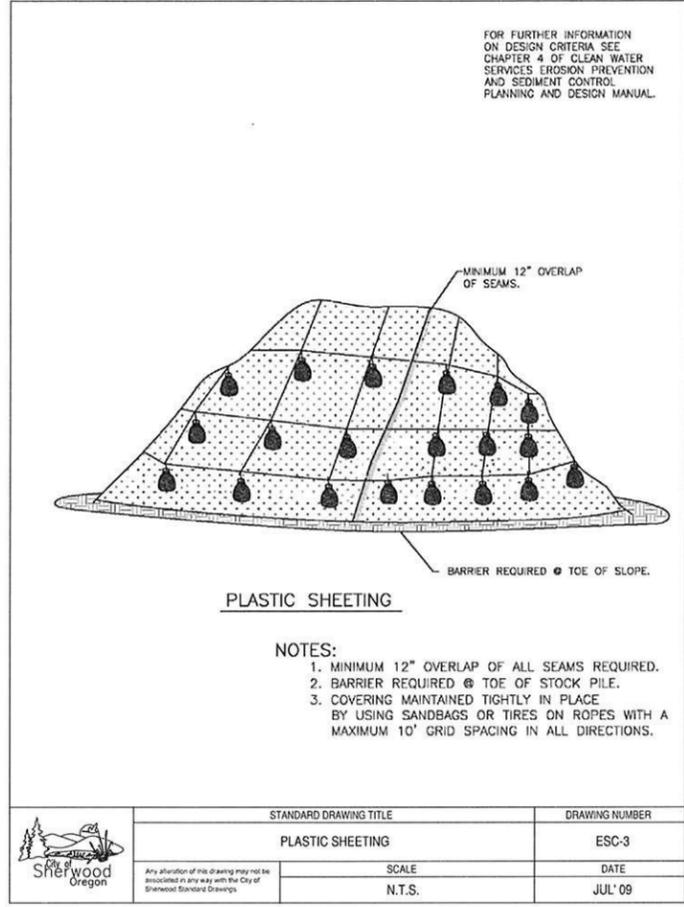
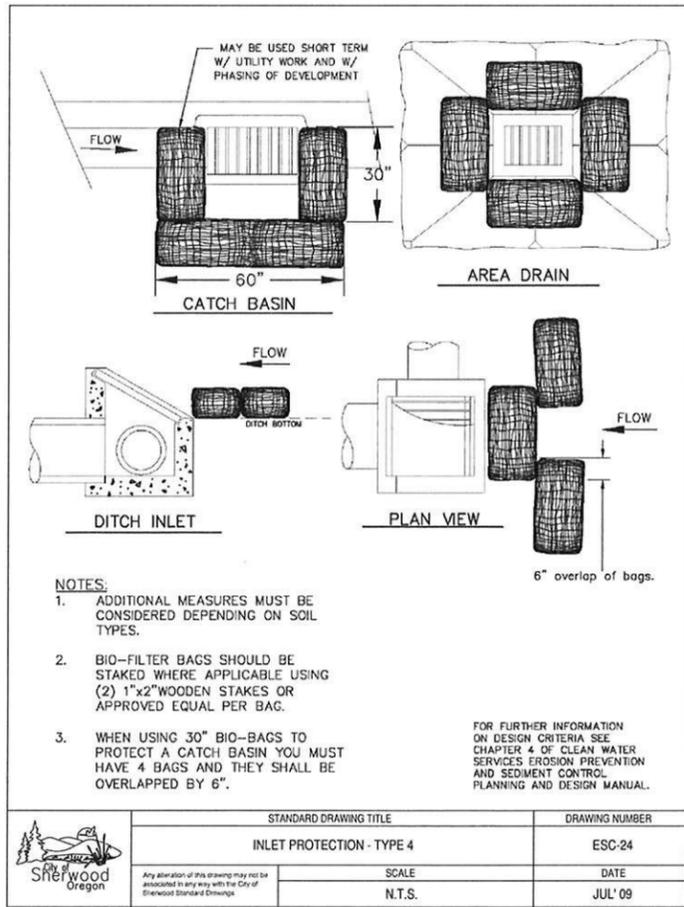
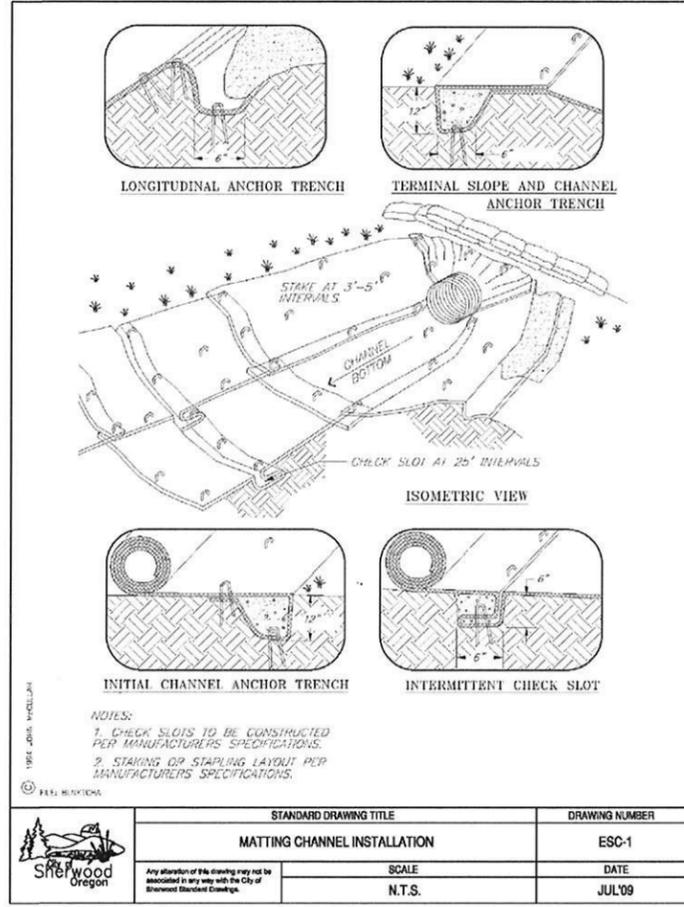
REVISIONS

**NOTES:**

- WHEN RAINFALL AND RUNOFF OCCURS DAILY INSPECTIONS OF THE EROSION AND SEDIMENT CONTROLS AND DISCHARGE OUTFALLS MUST BE PROVIDED BY SOME ONE KNOWLEDGEABLE AND EXPERIENCED IN THE PRINCIPLES, PRACTICES, INSTALLATION, AND MAINTENANCE OF EROSION AND SEDIMENT CONTROLS WHO WORKS FOR THE PERMITTEE.
- CONSTRUCTION ACTIVITIES MUST AVOID OR MINIMIZE EXCAVATION AND CREATION OF BARE GROUND FROM OCTOBER 1 THROUGH MAY 31 EACH YEAR.
- DURING WET WEATHER PERIOD, TEMPORARY STABILIZATION OF THE SITE MUST OCCUR AT THE END OF EACH WORK DAY.
- SEDIMENT CONTROLS MUST BE INSTALLED AND MAINTAINED ON ALL DOWN GRADIENT SIDES OF THE CONSTRUCTION SITE AT ALL TIMES DURING CONSTRUCTION. THEY MUST REMAIN IN PLACE UNTIL PERMANENT VEGETATION OR OTHER PERMANENT COVERING OF EXPOSED SOIL IS ESTABLISHED.
- ALL ACTIVE INLETS MUST HAVE SEDIMENT CONTROLS INSTALLED AND MAINTAINED AT ALL TIMES DURING CONSTRUCTION, UNLESS OTHERWISE APPROVED, A SURFACE MOUNTED AND ATTACHABLE, U-SHAPED FILTER BAG IS REQUIRED FOR ALL CURB INLET CATCH BASINS.
- SIGNIFICANT AMOUNTS OF SEDIMENT WHICH LEAVES THE SITE MUST BE CLEANED UP WITHIN 24 HOURS AND PLACED BACK ON THE SITE AND STABILIZED OR PROPERLY DISPOSED. THE CAUSE OF THE SEDIMENT RELEASE MUST BE FOUND AND PREVENTED FROM CAUSING 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 TIME FRAME.
- SEDIMENT MUST NOT BE INTENTIONALLY WASHED INTO STORM SEWERS, DRAINAGE WAYS, OR WATER BODIES.
- SEDIMENT MUST BE REMOVED FROM BEHIND ALL SEDIMENT CONTROL MEASURES WHEN IT HAS REACHED A HEIGHT OF 1/3RD THE BARRIER HEIGHT, AND PRIOR TO THE CONTROL MEASURES REMOVAL.
- CLEANING OF ALL STRUCTURES WITH SUMPS MUST OCCUR WHEN THE SEDIMENT RETENTION CAPACITY HAS BEEN REDUCED BY 50% AND AT COMPLETION OF PROJECT.
- ANY USE OF TOXIC OR OTHER HAZARDOUS MATERIALS MUST INCLUDE PROPER STORAGE, APPLICATION, AND DISPOSAL.
- THE PERMITTEE MUST PROPERLY MANAGE HAZARDOUS WASTES, USED OILS, CONTAMINATED SOILS, CONCRETE WASTE, SANITARY WASTE, LIQUID WASTE, OR OTHER TOXIC SUBSTANCES DISCOVERED OR GENERATED DURING CONSTRUCTION.
- THE APPLICATION RATE OF FERTILIZERS USED TO REESTABLISH VEGETATION MUST FOLLOW MANUFACTURER'S RECOMMENDATIONS. NUTRIENT RELEASES FROM FERTILIZERS TO SURFACE WATERS MUST BE MINIMIZED. TIME RELEASE FERTILIZERS SHOULD BE USED AND CARE SHOULD BE MADE IN APPLICATION OF FERTILIZERS WITHIN ANY WATER WAY RIPARIAN ZONE.
- OWNER OR DESIGNATED PERSON SHALL BE RESPONSIBLE FOR PROPER INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES, IN ACCORDANCE WITH CURRENT CLEAN WATER SERVICES STANDARDS AND STATE, AND FEDERAL REGULATIONS.
- 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. UNLESS OTHERWISE APPROVED, NO DISTURBANCE IS PERMITTED BEYOND THE CLEARING LIMITS. THE OWNER/PERMITTEE MUST MAINTAIN THE DELINEATION FOR THE DURATION OF THE PROJECT.  
NOTE: VEGETATED CORRIDORS TO BE DELINEATED WITH ORANGE CONSTRUCTION FENCE OR APPROVED EQUAL.
- PRIOR TO ANY LAND DISTURBING ACTIVITIES, THE BMPs THAT MUST BE INSTALLED ARE GRAVEL CONSTRUCTION ENTRANCE, PERIMETER SEDIMENT CONTROL, AND INLET PROTECTION. THESE BMPs MUST BE MAINTAINED FOR THE DURATION OF THE PROJECT.
- IF VEGETATIVE SEED MIXES ARE SPECIFIED, SEEDING MUST TAKE PLACE NO LATER THAN SEPTEMBER 1ST; THE TYPE AND PERCENTAGES OF SEED IN THE MIX ARE AS IDENTIFIED ON THE PLANS OR AS SPECIFIED BY THE DESIGN ENGINEER.
- WATER-TIGHT TRUCKS MUST BE USED TO TRANSPORT SATURATED SOILS FROM THE CONSTRUCTION SITE. AN APPROVED EQUIVALENT IS TO DRAIN THE SOIL ON SITE AT A DESIGNATED LOCATION USING APPROPRIATE BMPs; SOIL MUST BE DRAINED SUFFICIENTLY FOR MINIMAL SPILLAGE.
- ALL PUMPING OF SEDIMENT LADEN WATER MUST BE DISCHARGED OVER AN UNDISTURBED, PREFERABLY VEGETATED AREA, AND THROUGH A SEDIMENT CONTROL BMP (I.E. FILTER BAG).
- THE ESC PLAN MUST BE KEPT ONSITE. ALL MEASURES SHOWN ON THE PLAN MUST BE INSTALLED PROPERLY TO ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER A SURFACE WATER SYSTEM, ROADWAY, OR OTHER PROPERTIES.
- THE ESC MEASURES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE MEASURES SHALL BE UPGRADED AS NEEDED TO MAINTAIN COMPLIANCE WITH ALL REGULATIONS.
- WRITTEN ESC LOGS ARE SUGGESTED TO BE MAINTAINED ONSITE AND AVAILABLE TO DISTRICT INSPECTORS UPON REQUEST.
- IN AREAS SUBJECT TO WIND EROSION, APPROPRIATE BMPs MUST BE USED WHICH MAY INCLUDE THE APPLICATION OF FINE WATER SPRAYING, PLASTIC SHEETING, MULCHING, OR OTHER APPROVED MEASURES.
- ALL EXPOSED SOILS MUST BE COVERED DURING WET WEATHER PERIOD.



STANDARD DRAWING TITLE		DRAWING NUMBER
STANDARD EROSION CONTROL NOTES FOR SITES LESS THAN 1 ACRE		ESC-30
Any alteration of this drawing may not be associated in any way with the City of Sherwood Standard Drawings.	SCALE	DATE
	N.T.S.	JUL' 09



**CITY OF SHERWOOD DETAILS**

**TUALATIN STREET AND HIGHLAND DRIVE STORM SEWER AND PAVEMENT REHABILITATION**

LOCATED IN SECTION 32BD, T2S, R1W, W.M. IN THE CITY OF SHERWOOD, WASHINGTON COUNTY, STATE OF OREGON

**CITY OF SHERWOOD ENGINEERING DEPARTMENT**  
 22456 SW PINE STREET  
 SHERWOOD, OREGON 97140

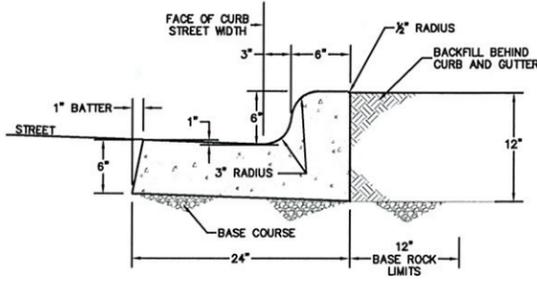
PHONE: (503) 925-2309  
 FAX: (503) 625-0629  
 E-MAIL: [engineering@ci.sherwood.or.us](mailto:engineering@ci.sherwood.or.us)

DESIGNED BY: CCC  
 DRAWN BY: CCC  
 CHECKED BY: IRS  
 FULL SIZE SCALE: AS NOTED  
 DATE: MARCH, 2016

REVISIONS

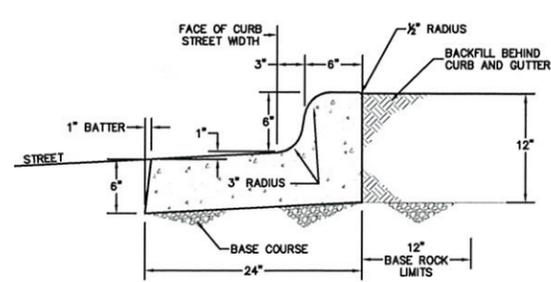
JOB NO.	
SHEET NO.	11
	14

EXPIRES: 12-31-15



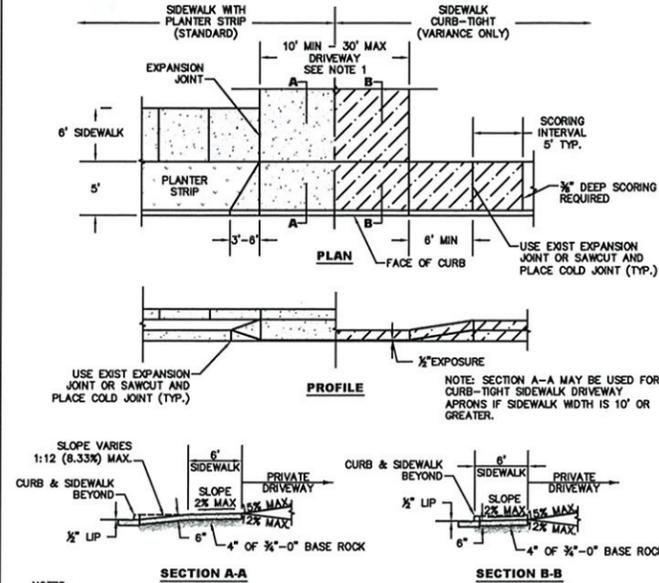
- NOTES:
- MONOLITHIC CURB AND GUTTER SHALL BE USED ON ALL NEW ROADWAY SECTIONS, EXCEPT AT ROADWAY MEDIANS AND AT MOUNTABLE CURB SECTIONS (SEE STD DET RD-21 & RD-24 FOR THESE CONDITIONS).
  - CONCRETE SHALL BE COMMERCIAL MIX, WITH A 28-DAY COMPRESSIVE STRENGTH OF 3300 PSI, WITH A SLUMP RANGE OF 1 1/2" TO 3" MAX.
  - EXPANSION JOINTS TO BE PROVIDED AT EACH:
    - POINT OF TANGENCY.
    - COLD JOINT.
    - SIDE OF INLET STRUCTURES.
    - SIDE OF DRIVEWAYS.
  - EXPANSION JOINT MATERIAL SHALL BE PRE-MOLDED, ASPHALT IMPREGNATED, NON-EXTRUDING, WITH A THICKNESS OF 1/2".
  - CONTRACTION JOINTS SHALL HAVE:
    - SPACING OF NOT MORE THAN 15 FEET.
    - DEPTH OF JOINT OF AT LEAST 1 1/2".
  - BASE ROCK SHALL BE 3/4"-0", COMPACTED TO 95% OF MAXIMUM DENSITY PER AASHTO T-180. BASE ROCK SHALL BE TO SUBGRADE OF STREET STRUCTURES OR 4", WHICHEVER IS GREATER, AND SHALL EXTEND 12" BEHIND CURB.
  - FOR CURB AND GUTTER REQUIREMENTS ON SHED AND SUPERELEVATED ROAD SECTIONS, SEE STD DET RD-23.

STANDARD DRAWING TITLE	DRAWING NUMBER
STANDARD MONOLITHIC CURB AND GUTTER	RD-22
SCALE	DATE
N.T.S.	JUL'09



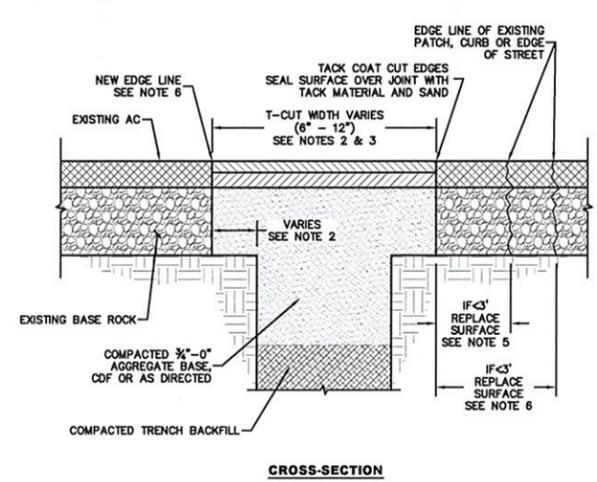
- NOTES:
- REVERSE MONOLITHIC CURB AND GUTTER SHALL BE USED ON ALL NEW SHED AND SUPERELEVATED ROADWAY SECTIONS WHERE ROAD CROSS-SLOPE IS AWAY FROM THE GUTTER. AT ROADWAY MEDIANS AND AT MOUNTABLE CURB SECTIONS (SEE STD DET RD-21 & RD-24 FOR THESE CONDITIONS).
  - CONCRETE SHALL BE COMMERCIAL MIX, WITH A 28-DAY COMPRESSIVE STRENGTH OF 3300 PSI, WITH A SLUMP RANGE OF 1 1/2" TO 3" MAX.
  - EXPANSION JOINTS TO BE PROVIDED AT EACH:
    - POINT OF TANGENCY.
    - COLD JOINT.
    - SIDE OF INLET STRUCTURES.
    - SIDE OF DRIVEWAYS.
  - EXPANSION JOINT MATERIAL SHALL BE PRE-MOLDED, ASPHALT IMPREGNATED, NON-EXTRUDING, WITH A THICKNESS OF 1/2".
  - CONTRACTION JOINTS SHALL HAVE:
    - SPACING OF NOT MORE THAN 15 FEET.
    - DEPTH OF JOINT OF AT LEAST 1 1/2".
  - BASE ROCK SHALL BE 3/4"-0", COMPACTED TO 95% OF MAXIMUM DENSITY PER AASHTO T-180. BASE ROCK SHALL BE TO SUBGRADE OF STREET STRUCTURES OR 4", WHICHEVER IS GREATER, AND SHALL EXTEND 12" BEHIND CURB.

STANDARD DRAWING TITLE	DRAWING NUMBER
STANDARD REVERSE MONOLITHIC CURB AND GUTTER	RD-23
SCALE	DATE
N.T.S.	JUL'09



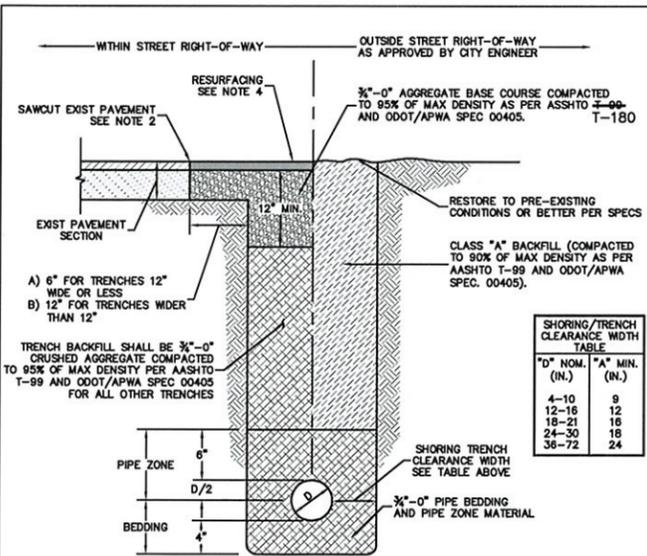
- NOTES:
- DRIVEWAY WIDTHS:
    - LOT FRONTAGE UP TO 60'; MAX DRIVEWAY WIDTH - 24'
    - LOT FRONTAGE OF GREATER THAN 60'; MAX DRIVEWAY WIDTH - 30'
  - DRIVEWAY CONCRETE SHALL HAVE A MINIMUM THICKNESS OF 6".
  - 3/4"-0" BASE ROCK SHALL BE COMPACTED TO 90% OF MAXIMUM DENSITY.
  - CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3300 PSI @ 28 DAYS.
  - CURB JOINT SHALL BE A TROWELED JOINT WITH A MINIMUM 1/2" RADIUS ALONG BACK OF CURB.
  - EXPANSION JOINTS SHALL BE 1/2" PRE-MOLDED ASPHALT IMPREGNATED MATERIAL, CEDAR OR EQUIVALENT EXTENDING FROM TOP OF FINISHED GRADE.
  - FOR DRIVEWAYS GREATER THAN 24', CONCRETE SHALL BE INCREASED TO A 7" DEPTH.
  - CONCRETE SHALL HAVE A BROOM FINISH AND EDGE ALL JOINTS.
  - WEEPHOLES ARE NOT TO BE PLACED IN WINGS.
  - IF CURBING IS BEING REMOVED TO INSTALL DRIVEWAY AND GUTTER SHOULD BECOME SEPERATED FROM THE DRIVING SURFACE IN EXCESS OF 1/4". THEN THE CUTTER SHALL ALSO BE REMOVED AND REPLACED.
  - SLOPE OF THE DRIVEWAY MAY BE AWAY FROM THE CURB WHEN PRE-APPROVED BY THE CITY ENGINEER.

STANDARD DRAWING TITLE	DRAWING NUMBER
STANDARD RESIDENTIAL DRIVEWAY DETAIL	RD-41
SCALE	DATE
N.T.S.	JUL'09



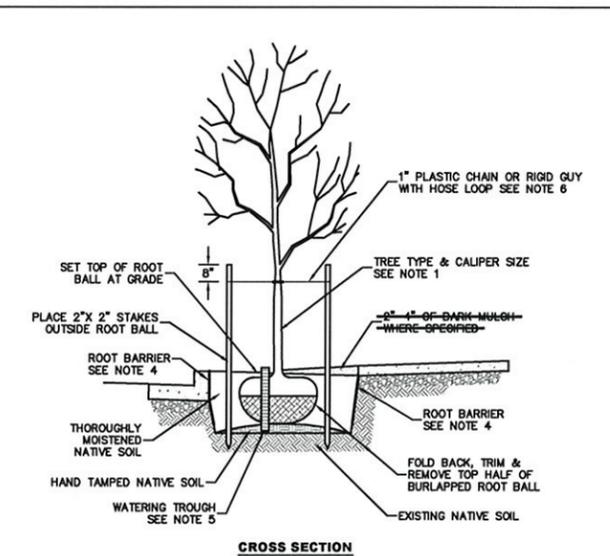
- NOTES:
- THIS DRAWING APPLIES TO TRENCH CUTS AND OTHER KINDS OF STREET CUTS.
  - SEE STD DET RD-20 FOR TYPICAL STREET PAVEMENT SECTION.
  - T-CUT ASPHALT 6" FOR TRENCHES 12" WIDE OR LESS, ELSE T-CUT IS 12" MINIMUM FOR TRENCHES WIDER THAN 12".
  - ON ALL NON-LOCAL STREETS, WIDTH OF T-CUT SHALL BE A MINIMUM OF 3'. ON ALL LOCAL STREETS, WIDTH OF T-CUT SHALL BE A MINIMUM OF 12" PLUS THE TRENCH WIDTH.
  - IF NEW EDGE OF PAVEMENT IS LESS THAN 3' FROM ANOTHER PATCH, CURB OR EDGE OF STREET, REPLACE THE PAVEMENT IN BETWEEN.
  - IF MORE THAN ONE EXISTING PATCH EDGE IS WITHIN THE 3' ZONE, REMOVE PAVEMENT TO THE FAR EDGE OF THE PRE-EXISTING PATCH.
  - NEW EDGE OF PAVEMENT (EDGE LINE) SHALL NOT LIE IN A WHEEL PATH. WIDTH OF T-CUT SHALL BE WIDENED WHERE NECESSARY TO MOVE THE EDGE LINE OUT OF THE WHEEL PATH AND EITHER: (A) TO LOCATION THAT IS 6" FROM THE NEAREST LINE OR (B) TO THE LOCATION REQUIRED BY NOTE 3 OR 4 ABOVE AS APPLICABLE, WHICHEVER IS NEAREST OF (A) OR (B).

STANDARD DRAWING TITLE	DRAWING NUMBER
ASPHALT PAVEMENT TRENCH RESTORATION	RD-45
SCALE	DATE
N.T.S.	JUL'09



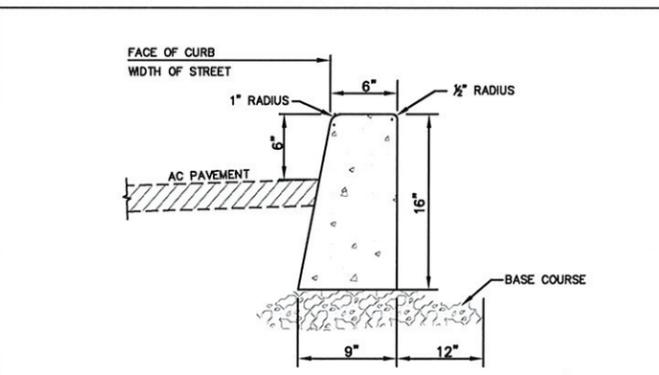
- NOTES:
- THESE TRENCH BACKFILL REQUIREMENTS APPLY TO ALL PUBLIC UTILITY PIPES. FOR ADDITIONAL REQUIREMENTS, SEE CITY STANDARD DESIGN MANUAL SECTION 210.1B.
  - SAWCUT EXISTING AC PAVEMENT FULL DEPTH. SAWCUT EXISTING PCC PAVEMENT ACCORDING TO CITY STANDARD DETAILS.
  - FOR PCC PAVEMENT REQUIRED WIDTH OF CUT, SEE CITY STANDARD DETAILS.
  - MATCH EXISTING PAVEMENT MATERIALS. THICKNESS SHALL BE AS FOLLOWS:
    - FOR EXISTING PCC: EXISTING PAVEMENT THICKNESS PLUS 2", BUT NOT LESS THAN 8". ON ARTERIAL AND COLLECTOR STREETS, CONCRETE PATCHING MATERIAL SHALL BE HIGH EARLY STRENGTH CLASS 5000 PSI PCC APPROVED BY CITY ENGINEER.
    - FOR EXISTING AC PAVEMENT: RESURFACE TO A MINIMUM OF 3/4" OF LEVEL 2, 1/2" DENSE HMAC OR EXISTING AC THICKNESS PLUS 2", WHICHEVER IS GREATER, BUT DO NOT EXCEED 6". COMPACT AC IN 2" MAX LIFTS TO 91% OF MAXIMUM DENSITY (RICE).
  - ALL CUT EDGES OF AC SHALL BE SAND SEALED WITH CRS-1 OR CRS-2 EMULSIFIED ASPHALT OR EQUIVALENT.
  - FOR CONDUIT TRENCH REQUIREMENTS SEE CITY STANDARD DETAIL RD-46.

STANDARD DRAWING TITLE	DRAWING NUMBER
STANDARD PIPE TRENCH BACKFILL AND SURFACE RESTORATION	RD-47
SCALE	DATE
N.T.S.	JUL'09



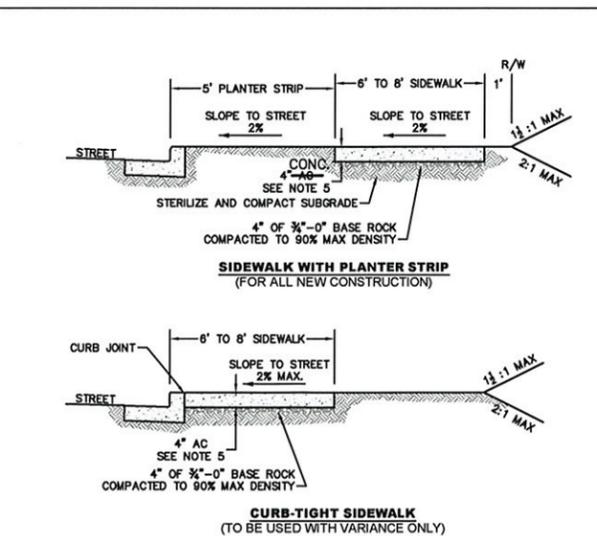
- NOTES:
- TREE SPECIES AND CALIPER SIZE ARE TO BE APPROVED BY THE CITY PLANNING.
  - ADJUST PLANTING LOCATIONS SO THAT TREE CROWN OR ROOT BALL DOES NOT CONFLICT WITH ABOVE OR BELOW - GROUND UTILITIES.
  - DO NOT UNDERMINE CURB OR SIDEWALK WHEN EXCAVATING.
  - AN 18" DEEP ROOT BARRIER SHALL BE ADDED WHERE REQUIRED BY CITY ENGINEER.
  - OPPOSITE TREE STAKES, PROVIDE TWO, 3" DIAMETER ADS PERFORATED PIPE WATERING TROUGHS, FILLED WITH PEA GRAVEL.
  - PROVIDE A LOOP IN CHAIN LOCK OR GUY HOSE LARGE ENOUGH TO ALLOW FOR TRUNK GROWTH.
  - TREE STAKES ARE TO BE REMOVED FOLLOWING THE REQUIRED ESTABLISHMENT PERIOD.
  - CONTRACTOR TO WATER TREES UNTIL FINAL ACCEPTANCE.

STANDARD DRAWING TITLE	DRAWING NUMBER
STANDARD SIDEWALK TREEWELL DETAIL	RD-80
SCALE	DATE
N.T.S.	JUL'09



- NOTES:
- VERTICAL CURB TO BE USED AT MEDIANS AND MEDIAN PLANTING STRIPS, OR IN REPLACEMENT OF DAMAGED EXISTING VERTICAL CURBS AND GUTTER (SEE STD DET RD-22).
  - CONCRETE SHALL BE COMMERCIAL MIX, MIN. COMPRESSIVE STRENGTH OF 3300 PSI AT 28 DAYS.
  - EXPANSION JOINTS:
    - TO BE PROVIDED:
      - AT EACH POINT OF TANGENCY OF THE CURB.
      - AT EACH COLD JOINT.
      - AT EACH SIDE OF INLET STRUCTURES.
      - AT EACH END OF DRIVEWAYS.
      - AT LOCATIONS NECESSARY TO LIMIT SPACING TO 45 FEET.
    - MATERIAL TO BE PRE-MOLDED, ASPHALT IMPREGNATED, NON-EXTRUDING, WITH A THICKNESS OF 1/2" INCH.
  - CONTRACTION JOINTS:
    - SPACING TO BE NOT MORE THAN 15 FEET.
    - THE DEPTH OF THE JOINT SHALL BE AT LEAST 1 1/2".
  - BASE ROCK: 3/4"-0", COMPACTED TO 95% MAX DENSITY. BASE ROCK SHALL BE TO SUBGRADE OF STREET STRUCTURE OR 4" IN DEPTH, WHICHEVER IS GREATER.

STANDARD DRAWING TITLE	DRAWING NUMBER
STANDARD VERTICAL CURB	RD-21
SCALE	DATE
N.T.S.	JUL'09



- NOTES:
- CONCRETE SHALL BE COMMERCIAL MIX, MIN. COMPRESSIVE STRENGTH OF 3300 PSI @ 28 DAYS, WITH A SLUMP RANGE OF 1 1/2" MIN. TO 3" MAX.
  - SIDEWALK PANELS TO BE SQUARE (6' LONG x 5' WIDE TYP.).
  - EXPANSION JOINTS TO BE PLACED AT SIDES OF DRIVEWAY APPROACHES, UTILITY VAULTS, CURB RAMPS, AND/OR POINTS OF TANGENCY IN CURB AS SHOWN ON THE STANDARD DRAWINGS FOR SIDEWALK RAMPS, AND AT SPACING NOT TO EXCEED 45'.
  - FOR SIDEWALKS ADJACENT TO THE CURB AND POURED AT THE SAME TIME AS THE CURB, THE JOINT BETWEEN THEM SHALL BE A TROWELED JOINT WITH A MINIMUM 1/2" RADIUS.
  - SIDEWALKS SHALL HAVE A MINIMUM THICKNESS OF 4". IF MOUNTABLE CURB IS USED, OR IF SIDEWALK IS INTENDED AS PORTION OF A RESIDENTIAL DRIVEWAY IT SHALL HAVE A 6" MINIMUM THICKNESS, COMMERCIAL 8".
  - CONCRETE SHALL HAVE A BROOM FINISH, ALL JOINTS SHALL BE EDGED WITH 3" SHINE.
  - WIDTH OF PLANTER STRIP AND SIDEWALK IS MEASURED FROM FACE OF CURB.
  - IF DRAIN BLOCKOUTS IN CURBS ARE APPROVED, THEY SHALL BE EXTENDED PERPENDICULAR TO CURB TO 1" PAST BACK OF SIDEWALK WITH A 3" DIAMETER ADS PIPE. CONTRACTION JOINT SHALL BE PLACE OVER PIPE.

STANDARD DRAWING TITLE	DRAWING NUMBER
STANDARD SIDEWALK DETAIL	RD-26
SCALE	DATE
N.T.S.	JUL'09

**CITY OF SHERWOOD DETAILS**

**TUALATIN STREET AND HIGHLAND DRIVE  
STORM SEWER AND PAVEMENT REHABILITATION**

LOCATED IN SECTION 32B2, T2S, R1W, W.M.  
IN THE CITY OF SHERWOOD,  
WASHINGTON COUNTY, STATE OF OREGON

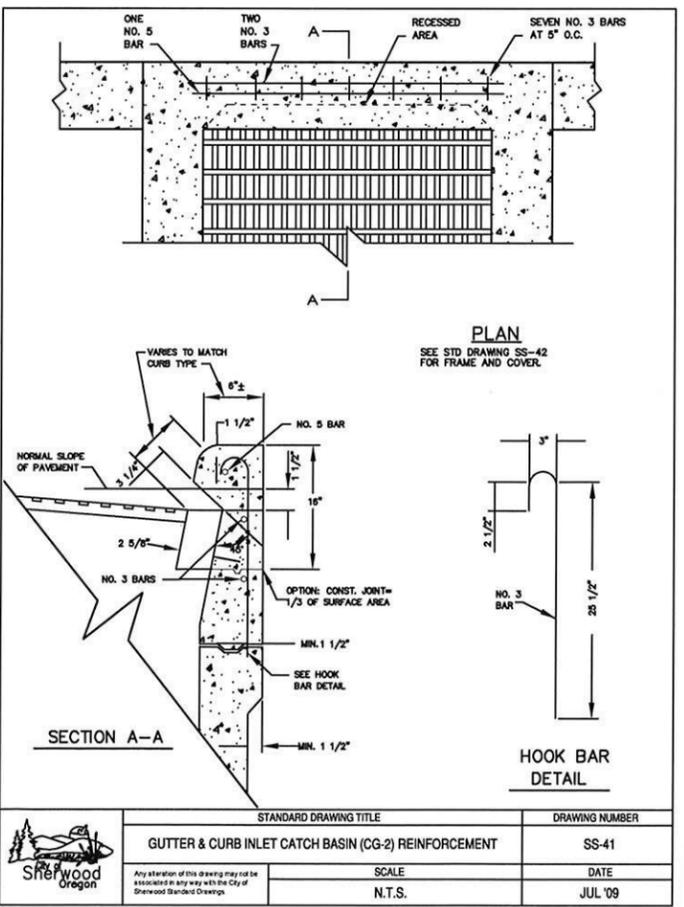
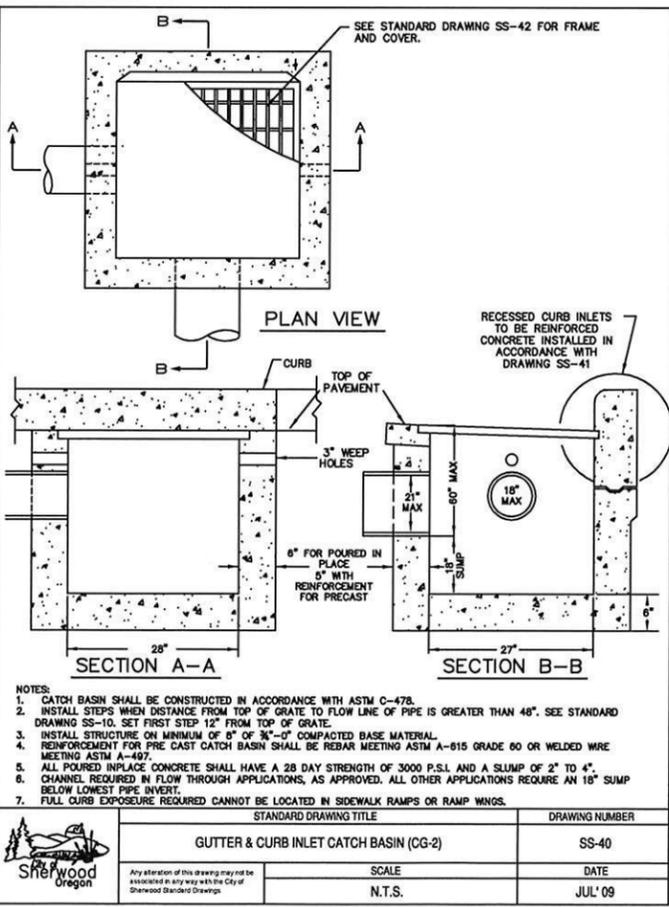
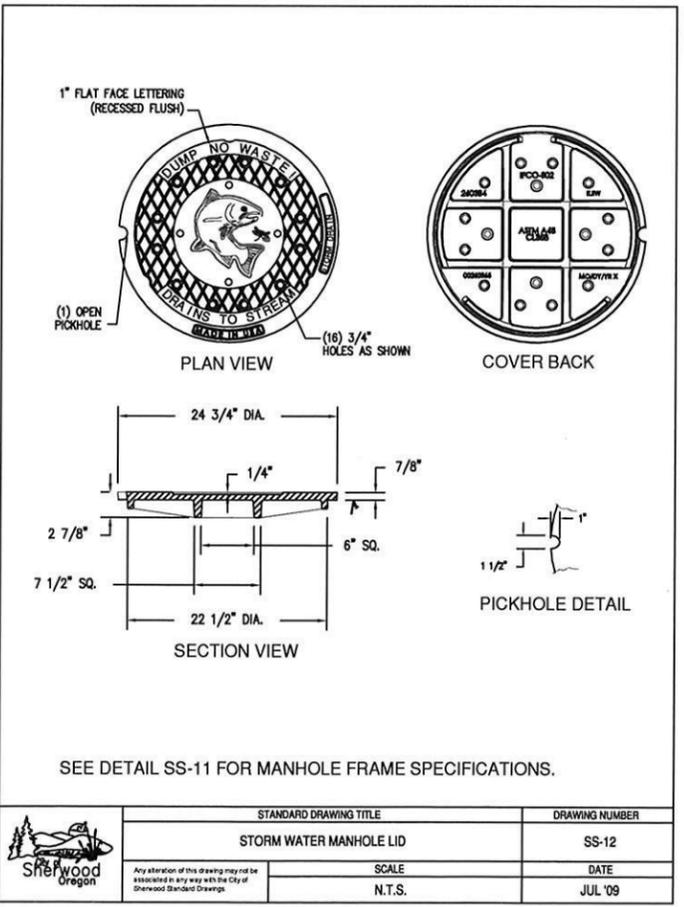
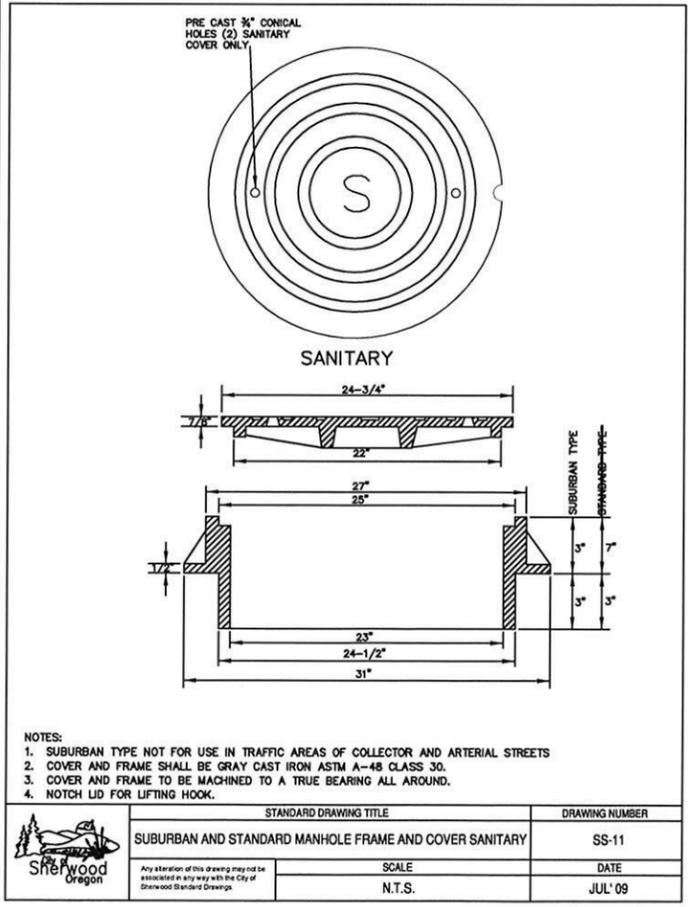
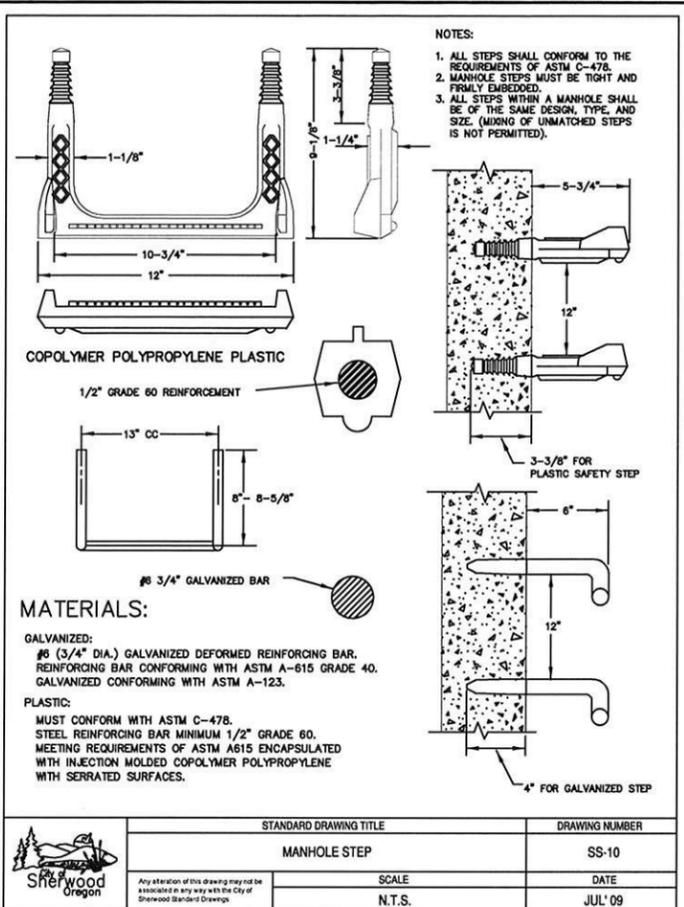
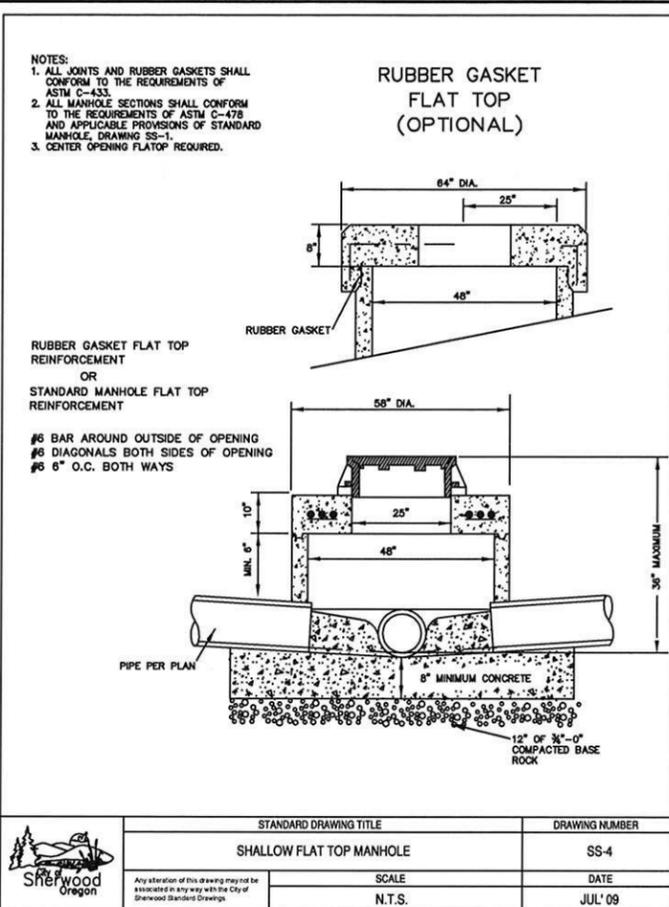
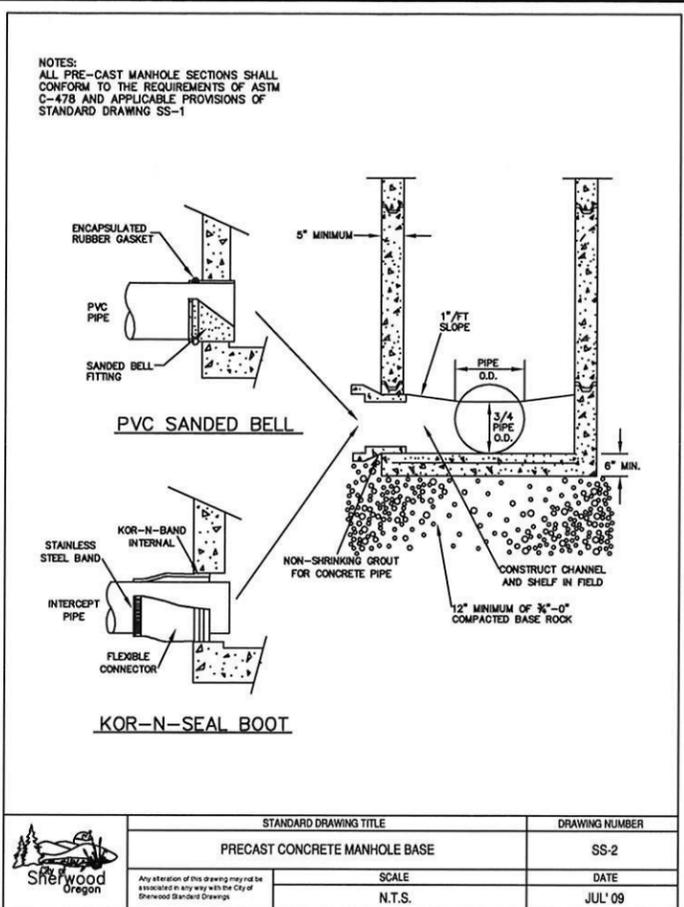
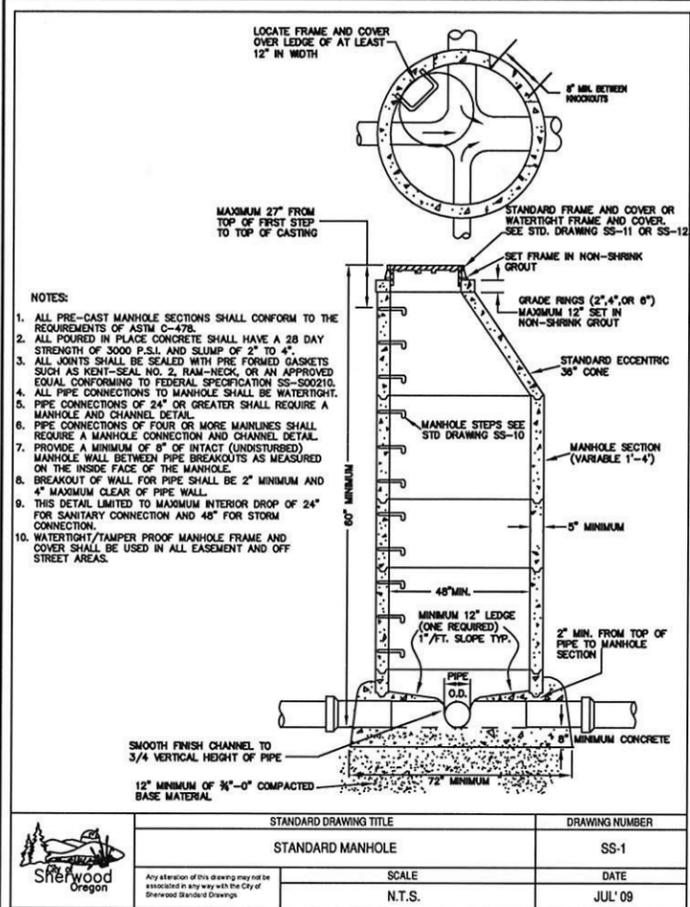
**CITY OF SHERWOOD  
ENGINEERING DEPARTMENT  
22560 SW PINE STREET  
SHERWOOD, OREGON 97140**

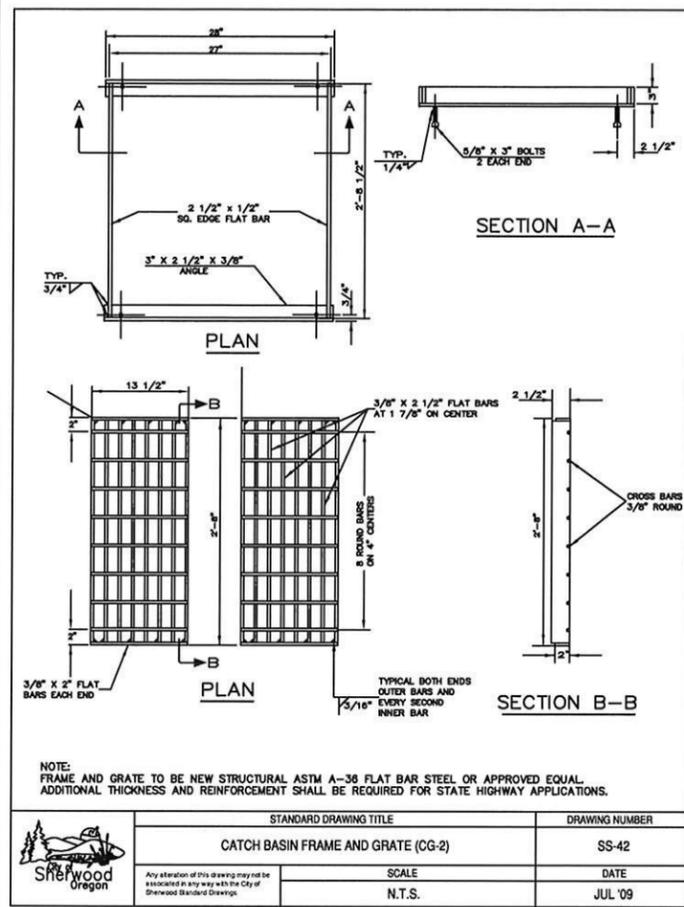
PHONE: (503) 925-2309  
FAX: (503) 625-0629  
E-MAIL: [engineering@ci.sherwood.or.us](mailto:engineering@ci.sherwood.or.us)

DESIGNED BY:	CCC
DRAWN BY:	CCC
CHECKED BY:	RS
FULL SIZE SCALE:	AS NOTED
DATE:	MARCH, 2016

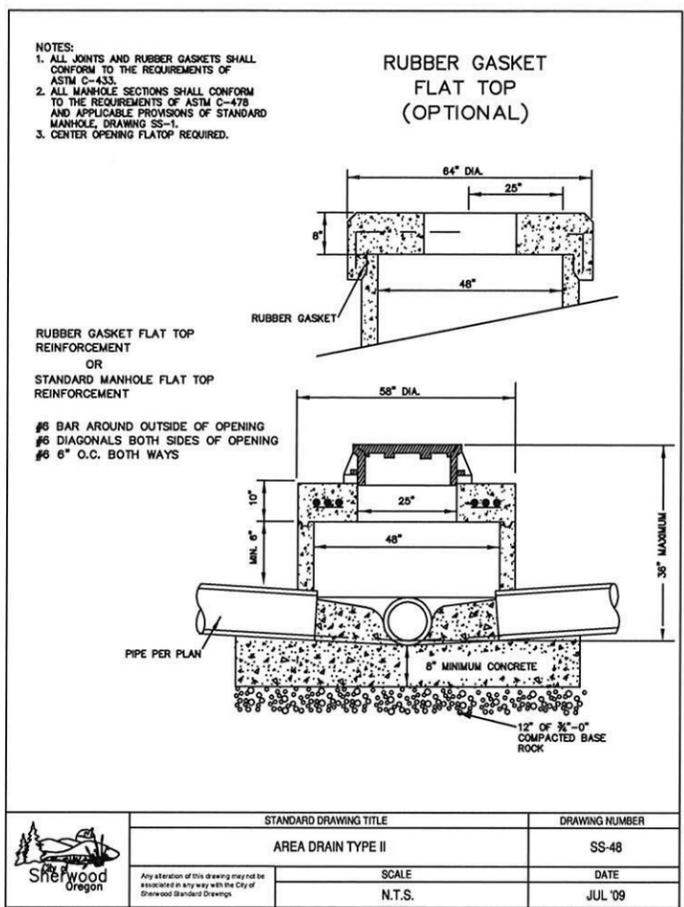
HIGHLAND DRIVE SHEETS

JOB NO.	
SHEET NO.	<b>12</b>
	14

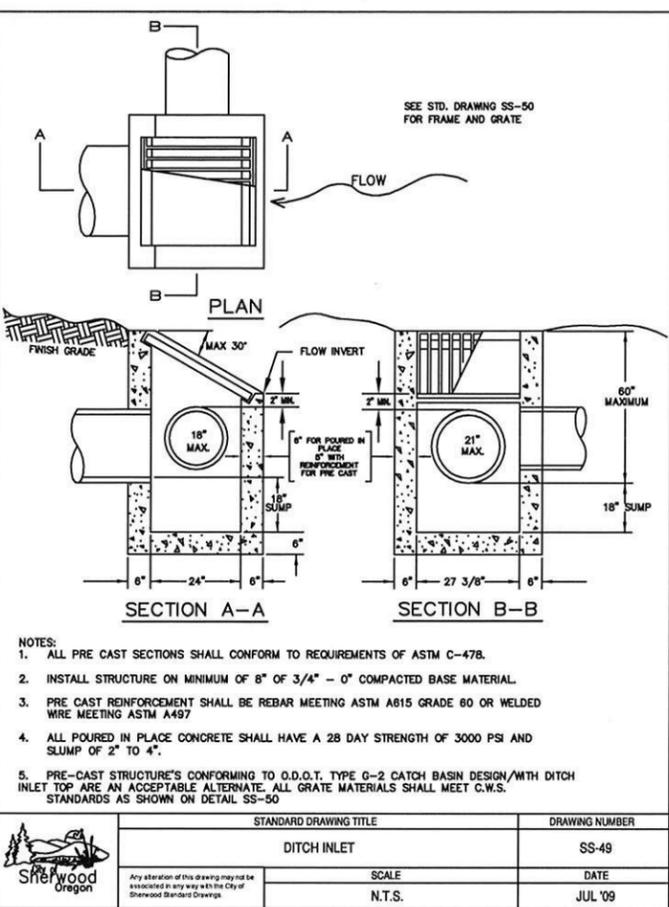




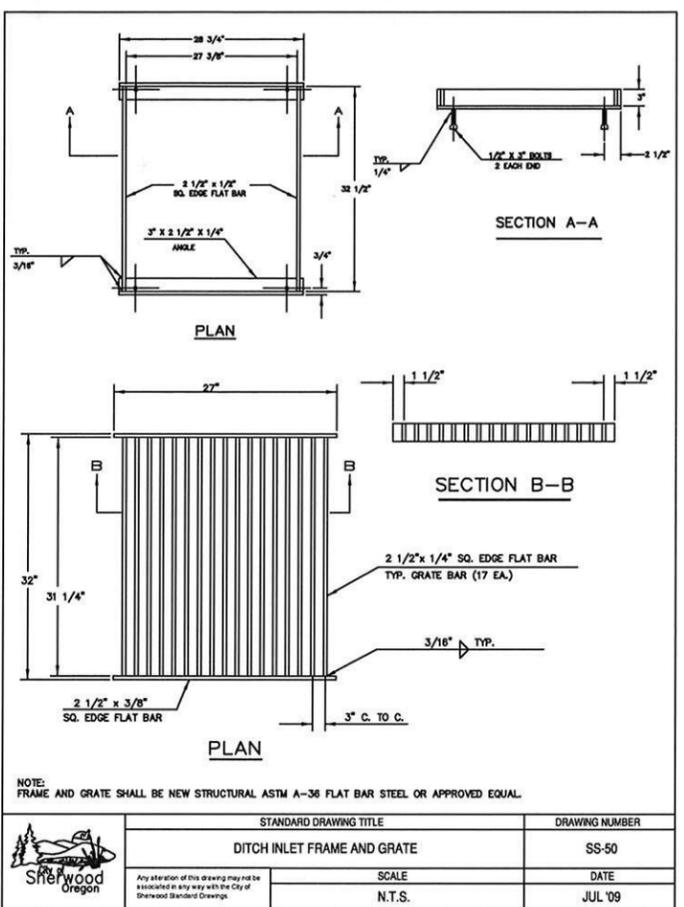
STANDARD DRAWING TITLE	DRAWING NUMBER
CATCH BASIN FRAME AND GRATE (CG-2)	SS-42
SCALE	DATE
N.T.S.	JUL '09



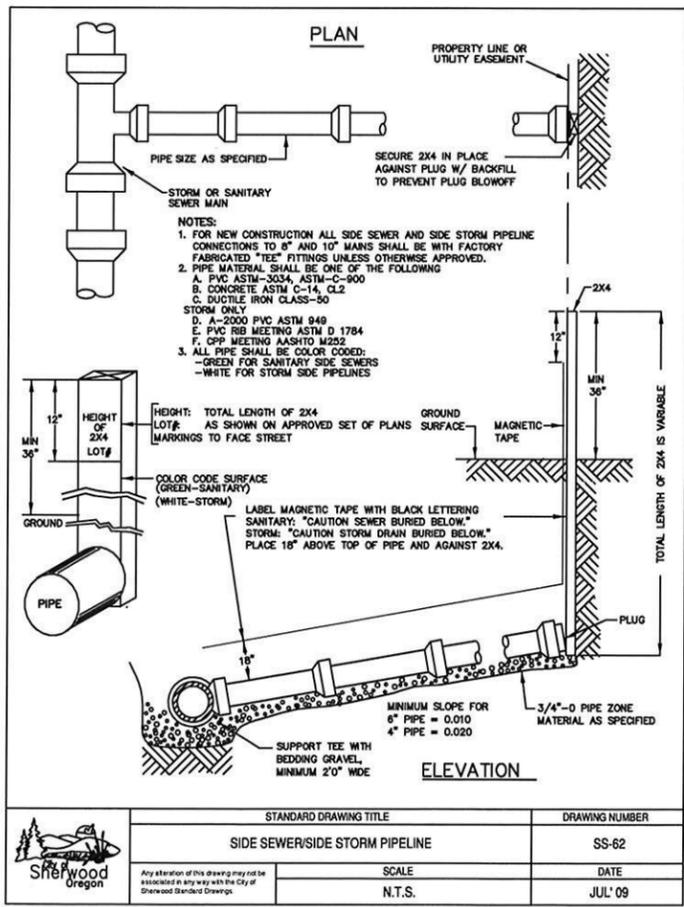
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AREA DRAIN TYPE II	SS-48
SCALE	DATE
N.T.S.	JUL '09



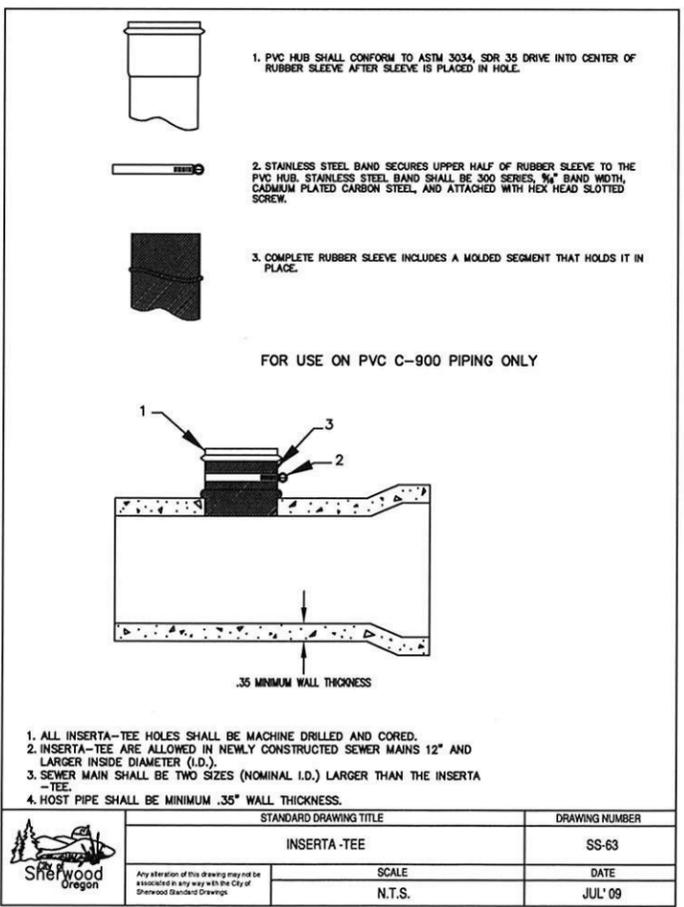
STANDARD DRAWING TITLE	DRAWING NUMBER
DITCH INLET	SS-49
SCALE	DATE
N.T.S.	JUL '09



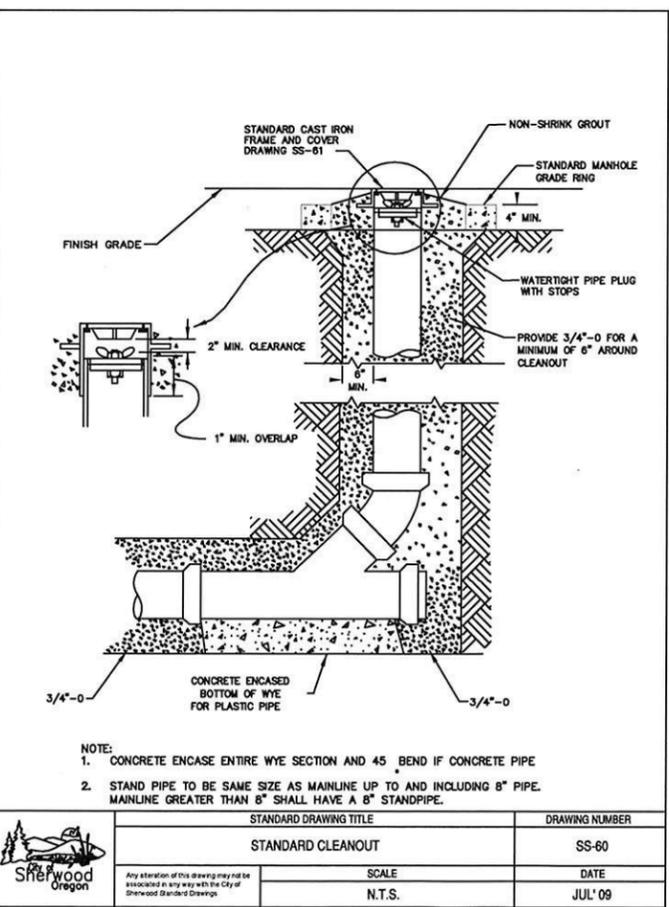
STANDARD DRAWING TITLE	DRAWING NUMBER
DITCH INLET FRAME AND GRATE	SS-50
SCALE	DATE
N.T.S.	JUL '09



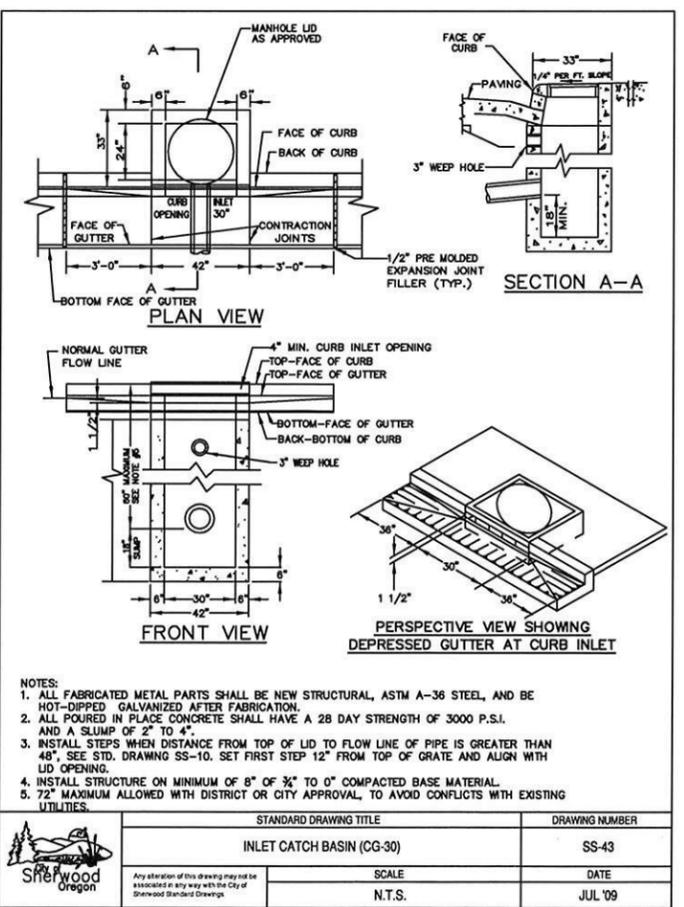
STANDARD DRAWING TITLE	DRAWING NUMBER
SIDE SEWER/SIDE STORM PIPELINE	SS-62
SCALE	DATE
N.T.S.	JUL '09



STANDARD DRAWING TITLE	DRAWING NUMBER
INSERTA-TEE	SS-63
SCALE	DATE
N.T.S.	JUL '09



STANDARD DRAWING TITLE	DRAWING NUMBER
STANDARD CLEANOUT	SS-60
SCALE	DATE
N.T.S.	JUL '09



STANDARD DRAWING TITLE	DRAWING NUMBER
INLET CATCH BASIN (CG-30)	SS-43
SCALE	DATE
N.T.S.	JUL '09

**CITY OF SHERWOOD DETAILS**

**TUALATIN STREET AND HIGHLAND DRIVE  
STORM SEWER AND PAVEMENT REHABILITATION**

LOCATED IN SECTION 32BD, 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) 625-0629  
E-MAIL: [engineering@sherwoodoregon.gov](mailto:engineering@sherwoodoregon.gov)

DESIGNED BY: CCC  
DRAWN BY: CCC  
CHECKED BY: RS  
FULL SIZE SCALE: AS NOTED  
DATE: MARCH, 2016

HIGHLAND DRIVE SHEETS

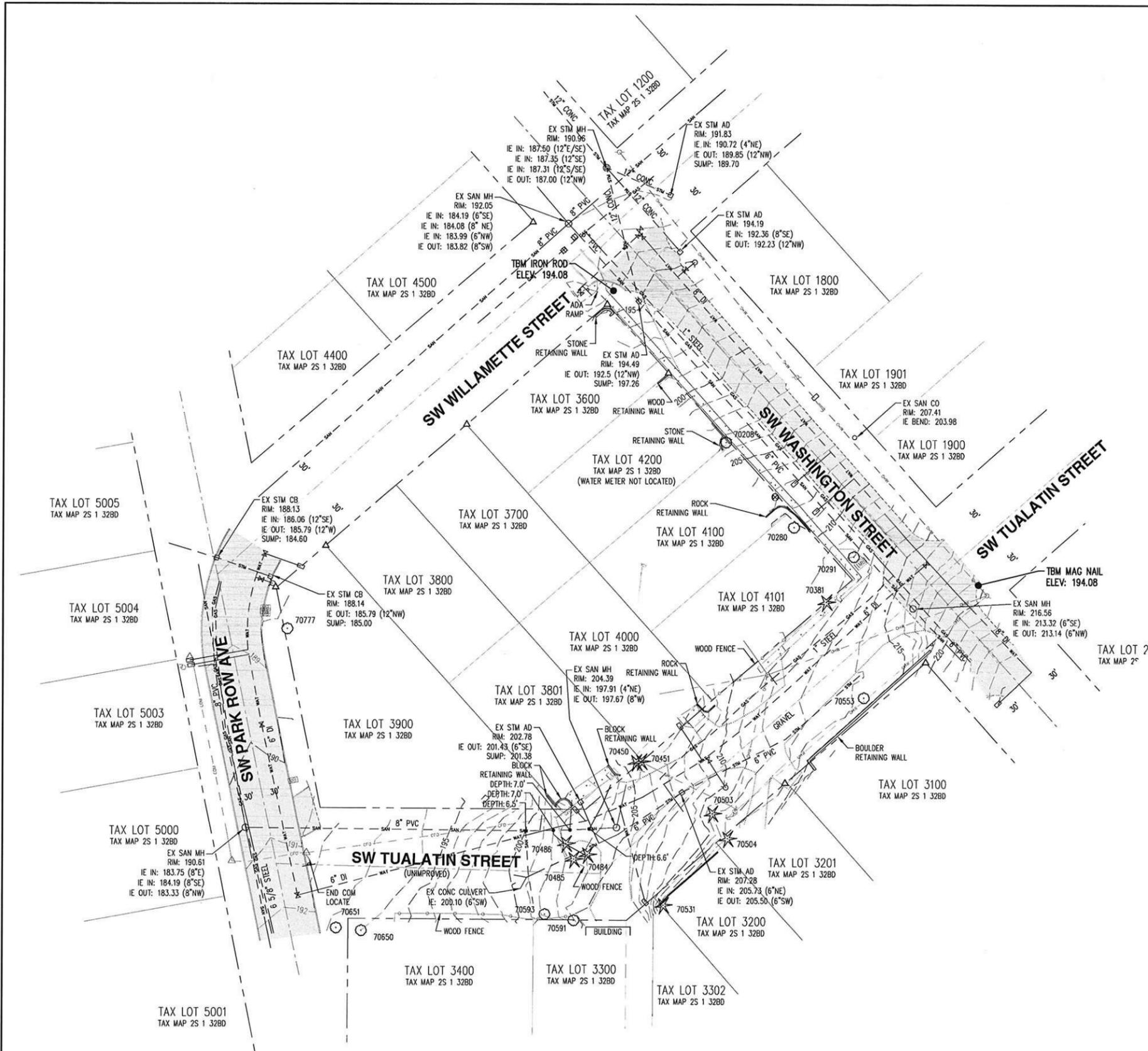
REVISIONS

NO.	DESCRIPTION

JOB NO. \_\_\_\_\_

SHEET NO. **14**

OF 14



### LEGEND

<b>EXISTING</b>		<b>EXISTING</b>	
		<b>EXISTING</b>	

### MONUMENTS

**EXISTING**

	FOUND SURVEY MONUMENT
	RIGHT-OF-WAY LINE
	BOUNDARY LINE
	PROPERTY LINE
	CENTERLINE
	DITCH
	CURB
	EDGE OF PAVEMENT
	EASEMENT
	FENCE LINE
	GRAVEL EDGE
	POWER LINE
	OVERHEAD WIRE
	COMMUNICATIONS LINE
	FIBER OPTIC LINE
	GAS LINE
	STORM SEWER LINE
	SANITARY SEWER LINE
	WATER LINE



**TREE TABLE:**

NUMBER	SPECIES	DIAMETER (INCH)
70208	DECIDUOUS	4
70280	DECIDUOUS	7
70291	DECIDUOUS	31
70381	CONIFEROUS	8
70450	CONIFEROUS	32
70451	CONIFEROUS	16
70484	CONIFEROUS	6, 14
70485	CONIFEROUS	9, 10
70486	CONIFEROUS	9
70503	CONIFEROUS	38
70504	CONIFEROUS	35
70531	CONIFEROUS	33
70553	DECIDUOUS	6
70591	DECIDUOUS	12, 14, 18
70593	DECIDUOUS	12
70650	DECIDUOUS	20
70651	DECIDUOUS	11
70777	DECIDUOUS	32

- NOTES:**
- UTILITIES SHOWN ARE BASED ON UNDERGROUND UTILITY LOCATE MARKINGS AS PROVIDED BY OTHERS, PROVIDED PER UTILITY LOCATE TICKET NUMBER 15218455 AND 15222568. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND LOCATES REPRESENT THE ONLY UTILITIES IN THE AREA. CONTRACTORS ARE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS PRIOR TO BEGINNING CONSTRUCTION.
  - FIELD WORK WAS CONDUCTED SEPTEMBER 14-15 AND NOVEMBER 4, 2015.
  - VERTICAL DATUM: 3. VERTICAL DATUM: ELEVATIONS ARE BASED ON A 2" DIAMETER BRASS CAP MARKED "NO. 1, 1988", IN A MONUMENT BOX NEAR THE SOUTH EDGE OF PAVEMENT OF HIGHWAY 99 WEST, 300 FEET SOUTHWEST OF SIX CORNERS, WITH AN NGVD 29 ELEVATION OF 210.10 FEET.
  - THIS MAP DOES NOT CONSTITUTE A PROPERTY BOUNDARY SURVEY.
  - SURVEY IS ONLY VALID WITH SURVEYOR'S STAMP AND SIGNATURE.
  - BUILDING FOOTPRINTS ARE MEASURED TO SIDING UNLESS NOTED OTHERWISE. CONTACT SURVEYOR WITH QUESTIONS REGARDING BUILDING TIES.
  - CONTOUR INTERVAL IS 1 FOOT.
  - TREES WITH DIAMETER OF 6" AND GREATER ARE SHOWN. TREE DIAMETERS WERE MEASURED UTILIZING A DIAMETER TAPE AT BREAST HEIGHT. TREE INFORMATION IS SUBJECT TO CHANGE UPON ARBORIST INSPECTION.
  - HORIZONTAL DATUM A LOCAL DATUM PLANE SCALED FROM OREGON STATE PLANE NORTH 3601 NAD83(1991) BY HOLDING A PROJECT MEAN GROUND COMBINED SCALE FACTOR OF 1.0001057061 AT A CALCULATED CENTRAL PROJECT POINT WITH INTERNATIONAL FOOT GRID VALUES OF (N 625072.855, E 7600461.855). THE CONVERGENCE ANGLE BETWEEN GRID NORTH AND GEODETIC NORTH AT THE CALCULATED CENTRAL POINT IS -1'39"37". THE STATE PLANE COORDINATES WERE ESTABLISHED BY GPS OBSERVATIONS AND HOLDING THE NAD83(1991) CONTROL VALUES PER WASHINGTON COUNTY HORIZONTAL CONTROL DATA SHEETS GC31-119A AND GC31-115A.

**AKS**  
AKS ENGINEERING & FORESTRY, LLC  
12865 SW HERMAN RD STE 100  
TUALATIN, OR 97062  
P: 503.563.6151  
F: 503.563.6152  
aks-eng.com

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

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**TUALATIN STORM AND PAVING**

**SHERWOOD OREGON**

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**EXISTING CONDITIONS PLAN**

**DESIGNED BY:**  
BRH  
**CHECKED BY:**  
NSW  
**SCALE:**  
AS NOTED  
**DATE:** 11/13/2015

REGISTERED PROFESSIONAL LAND SURVEYOR

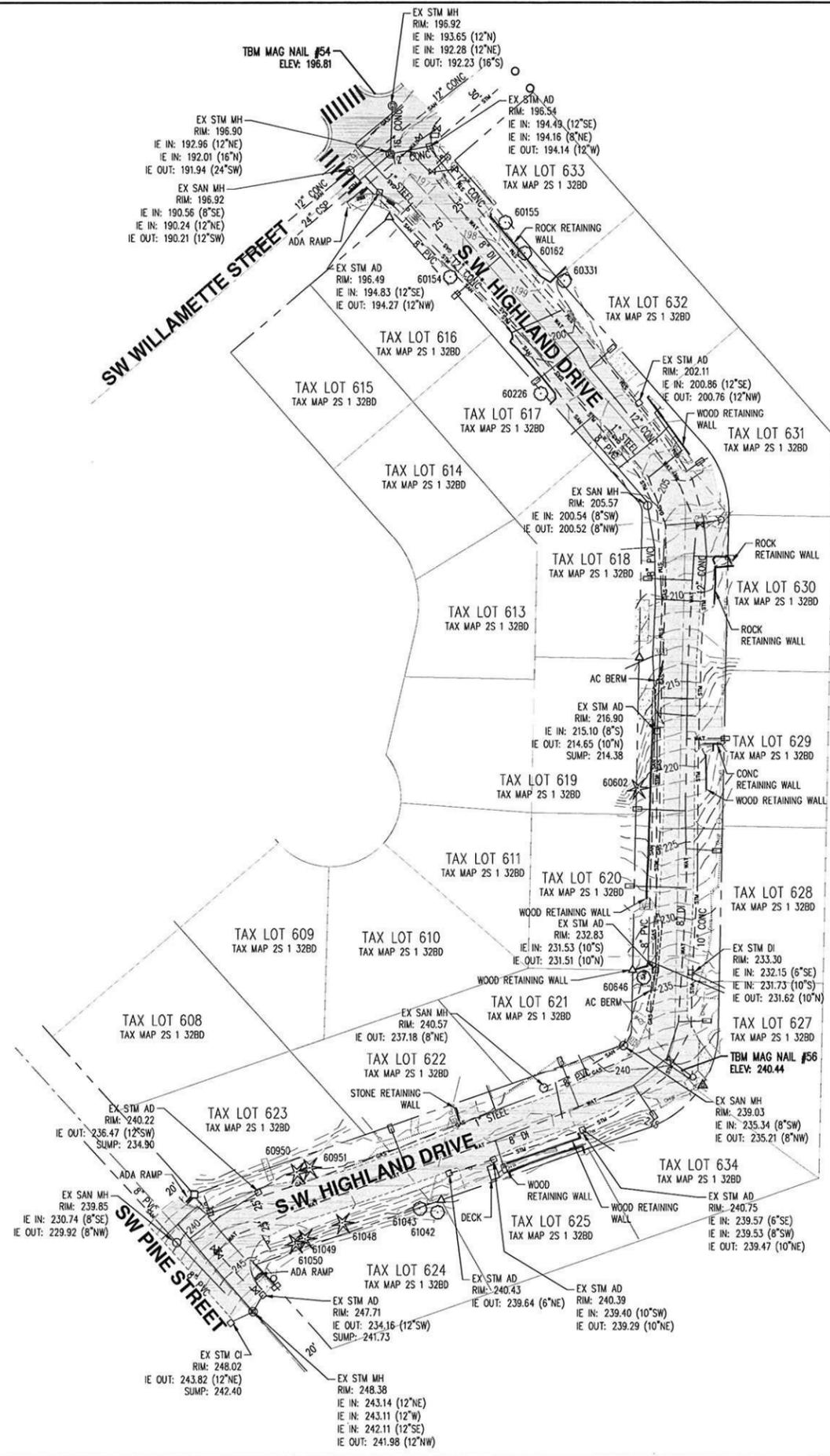
*Nick White*

OREGON  
JANUARY 9, 2007  
NICK WHITE  
70652LS  
RENEWED: 6/30/16

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JOB NUMBER  
**4814**

SHEET  
**01**



### LEGEND

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

### MONUMENTS

FOUND IRON ROD; PER PLAT OF "SHERWOOD HIGHLANDS NO. 1"	FOUND 5/8" IRON ROD W/IPC INSCRIBED "COMPASS ENGINEERING"; PER SH 31219
FOUND 5/8" IRON ROD W/IPC INSCRIBED "W.B. WELLS & ASSOC., INC."; PER PP. NO. 2004-014	FOUND 1/2" IRON ROD; ORIGIN UNKNOWN

### EXISTING

RIGHT-OF-WAY LINE	---
BOUNDARY LINE	---
PROPERTY LINE	---
CENTERLINE	---
DITCH	---
CURB	---
EDGE OF PAVEMENT	---
EASEMENT	---
FENCE LINE	---
GRAVEL EDGE	---
POWER LINE	---
OVERHEAD WIRE	---
COMMUNICATIONS LINE	---
FIBER OPTIC LINE	---
GAS LINE	---
STORM SEWER LINE	---
SANITARY SEWER LINE	---
WATER LINE	---



### TREE TABLE

NUMBER	SPECIES	DIAMETER (INCH)
60154	DECIDUOUS	12
60155	DECIDUOUS	7, 7, 7, 8, 8
60162	DECIDUOUS	6, 6
60226	DECIDUOUS	10
60331	DECIDUOUS	14
60602	CONIFEROUS	17
60646	DECIDUOUS	7
60950	CONIFEROUS	21
60951	CONIFEROUS	21
61042	DECIDUOUS	6, 7, 7, 8
61043	DECIDUOUS	7
61048	CONIFEROUS	31
61049	CONIFEROUS	16
61050	CONIFEROUS	6

- ### NOTES:
- UTILITIES SHOWN ARE BASED ON UNDERGROUND UTILITY LOCATE MARKINGS AS PROVIDED BY OTHERS, PROVIDED PER UTILITY LOCATE TICKET NUMBER 15209673. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND LOCATES REPRESENT THE ONLY UTILITIES IN THE AREA. CONTRACTORS ARE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS PRIOR TO BEGINNING CONSTRUCTION.
  - FIELD WORK WAS CONDUCTED SEPTEMBER 17, 2015.
  - VERTICAL DATUM: 3. VERTICAL DATUM: ELEVATIONS ARE BASED ON A 2" DIAMETER BRASS CAP MARKED "NO. 1, 1988", IN A MONUMENT BOX NEAR THE SOUTH EDGE OF PAVEMENT OF HIGHWAY 99 WEST, 300 FEET± SOUTHWEST OF SIX CORNERS, WITH AN NGVD 29 ELEVATION OF 210.10 FEET.
  - THIS MAP DOES NOT CONSTITUTE A PROPERTY BOUNDARY SURVEY.
  - SURVEY IS ONLY VALID WITH SURVEYOR'S STAMP AND SIGNATURE.
  - CONTOUR INTERVAL IS 1 FOOT.
  - TREES WITH DIAMETER OF 6" AND GREATER ARE SHOWN. TREE DIAMETERS WERE MEASURED UTILIZING A DIAMETER TAPE AT BREAST HEIGHT. TREE INFORMATION IS SUBJECT TO CHANGE UPON ARBORIST INSPECTION.
  - HORIZONTAL DATUM: A LOCAL DATUM PLANE SCALED FROM OREGON STATE PLANE NORTH 3601 NAD83(1991) BY HOLDING A PROJECT MEAN GROUND COMBINED SCALE FACTOR OF 1.0001057061 AT A CALCULATED CENTRAL PROJECT POINT WITH INTERNATIONAL FOOT GRID VALUES OF (N 625072.855, E 7600461.855). THE CONVERGENCE ANGLE BETWEEN GRID NORTH AND GEODETIC NORTH AT THE CALCULATED CENTRAL POINT IS -1'39"37". THE STATE PLANE COORDINATES WERE ESTABLISHED BY GPS OBSERVATIONS AND HOLDING THE NAD83(1991) CONTROL VALUES PER WASHINGTON COUNTY HORIZONTAL CONTROL DATA SHEETS GC31-119A AND GC31-115A.

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**HIGHLAND DRIVE  
 STORM AND PAVING  
 SHERWOOD**

**OREGON**

**EXISTING CONDITIONS  
 PLAN**

DESIGNED BY: \_\_\_\_\_  
 DRAWN BY: BRH  
 CHECKED BY: NSW  
 SCALE: AS NOTED  
 DATE: 09/22/2015

REGISTERED PROFESSIONAL LAND SURVEYOR  
*Nick White*  
 OREGON  
 JANUARY 9, 2007  
 NICK WHITE  
 7085215  
 RENEWS: 6/30/16

REVISIONS: \_\_\_\_\_

JOB NUMBER  
**4815**

SHEET  
**01**