



SOOS CREEK WATER & SEWER DISTRICT

14616 SE 192nd St. Renton, WA 98058 • www.sooscreek.com • (253) 630-9900

Landsburg Mine Site PLP Group
28301 SE Summit Landsburg Rd
Ravensdale, WA 98501

August 22, 2025

Re: Landsburg Mine Discharge Sewer Connection

Dear Vanessa,

Enclosed are the final approved sewer plans for the above-referenced project. We are returning two sets of approved and stamped plans for you to distribute to your contractor, city and/or county for permit applications. An approved set of plans must be available onsite during construction.

Please compile and provide the following documentation before requesting a preconstruction meeting with Soos Creek Water and Sewer District:

- ❖ King County Wastewater Treatment Approval Form
 - Attached, please complete and email to khogan@sooscreek.com for submittal to King County
- ❖ King County Right of Way Permit – (the District can help you apply for this if needed)
- ❖ Contractor Bid Sheet- attached
- ❖ Certificate of Insurance: The Developer or the Developer's contractor shall secure and maintain during the life of this contract Public Liability Insurance for bodily injury and property damage liability, including without limitation, coverage for explosion, collapse, blasting and destruction of underground utilities (X.C.U.) and contingent liability, including projects and completed operations and blanket contractual liability. The insurance certificate must specifically state **“Soos Creek Water and Sewer District’s officers, agents and employees, and specifically designated District consulting engineering firm, their representatives, or employees of any regulatory agency with personnel onsite, are named as additional insureds per the terms and conditions of this policy” at no cost to the District.**

Once you have gathered the above items, please forward them to me at KHogan@sooscreek.com . When we have received all documents, and verified that they meet the outlined requirements, a preconstruction meeting will be scheduled for your project. Preconstruction meetings should be scheduled within two weeks of the beginning of construction. Your onsite foreman must attend this meeting in person.

Please email me if you have any additional questions or concerns.

Sincerely,

Keely Hogan
Development Administration Lead
Soos Creek Water and Sewer District

Path: V:\corp\pdown\net\US\CentralData\US\XLC300\geomatica\Palmer\Coloring\Line\VA099_PROJECTS\23\23000007_EnvRem\5000_DischargePipeDesign\2_PRODUC\TOD\DWG1 | File Name: 9231000007_5000_011.dwg | Last Edited By: usd701463 | Printed By: USK0701463 | Date: 2025-05-23 Time: 3:04:58 PM | Printed By: USK0701463 | Date: 2025-07-17 Time: 2:17:21 PM

DATUM

- 1. HORIZONTAL DATUM: NAD83 WASHINGTON STATE PLANE, NORTH ZONE, US FOOT.
- 2. VERTICAL DATUM: NAVD88

REFERENCES

- 1. TOPOGRAPHIC SURVEY, DATED 10/19/2023, PROVIDED BY ENCOMPASS ENGINEERING AND SURVEYING, KEVIN M. REESE, (425) 961-2173, KREESE@ENCOMPASSES.NET.
- 2. PARCEL BOUNDARIES AND ROAD EXTENTS OUTSIDE OF PROJECT AREA ARE FROM KING COUNTY GIS PORTAL, ACCESSED 10/2/2024.
- 3. AERIAL IMAGE FROM 2024 MICROSOFT BING MAPS.

SCOPE

- 1. THESE SPECIFICATIONS INCLUDE RELEVANT SOOS CREEK WATER & SEWER DISTRICT STANDARD SPECIFICATIONS AS WELL AS ADDITIONAL REQUIREMENTS FOR THE FORCE MAIN PIPE AND ASSOCIATED MATERIALS AND INSTALLATION, INCLUDING CLEARING, FORCE MAIN PIPE, VALVE VAULT, VALVE, SUPPORTS, AND TIE-IN TO THE EXISTING SEWER SYSTEM.
- 2. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY MATERIALS FOR A COMPLETE AND FUNCTIONAL SYSTEM, WHETHER SHOWN ON THE DESIGN DRAWINGS OR NOT.
- 3. THE FORCE MAIN PIPE SHALL BE INSTALLED USING OPEN CUT TRENCH METHODS. TRENCHLESS METHODS HAVE BEEN DETERMINED TO BE INFEASIBLE DUE TO PROJECT CONDITIONS.

GENERAL NOTES (ADAPTED FROM SOOS CREEK WATER & SEWER DISTRICT NOTES)

- 1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE SOOS CREEK WATER & SEWER DISTRICT, ALSO REFERRED HEREINAFTER AS "DISTRICT".
- 2. NOT APPLICABLE FOR THIS PROJECT.
- 3. PRIOR TO CONSTRUCTION, THE PROJECT LIMITS SHALL BE CLEARED, GRADED, AND STAKED BY THE OWNER/CONTRACTOR AND ALL EXISTING UTILITIES SHALL BE LOCATED.
- 4. FOLLOWING CONSTRUCTION, ANY REVISION OF ROADWAY OR EASEMENT GRADES REQUIRING THE MAINS TO BE RECONSTRUCTED SHALL BE MADE AT THE OWNER'S/CONTRACTOR'S EXPENSE.
- 5. RECONSTRUCTION SHALL CONFORM TO THE SPECIFICATIONS OF THE DISTRICT. ALL COSTS FOR INSPECTING SUCH RECONSTRUCTION SHALL BE CHARGED TO THE OWNER/CONTRACTOR IN ADDITION TO THE STANDARD CHARGES, AND SHALL BE PAID BEFORE ACCEPTANCE BY THE DISTRICT.
- 6. NOT APPLICABLE FOR THIS PROJECT.
- 7. NOT APPLICABLE FOR THIS PROJECT.
- 8. NOT APPLICABLE FOR THIS PROJECT.
- 9. THE OWNER/CONTRACTOR SHALL NOTIFY THE DISTRICT AT (253) 630-9900 TO SCHEDULE A PRE-CONSTRUCTION MEETING AT THE DISTRICT OFFICE. AFTER THE PRE-CONSTRUCTION MEETING, THE OWNER/CONTRACTOR SHALL NOTIFY THE DISTRICT'S FIELD REPRESENTATIVE AT LEAST 48 HOURS (REGULAR WORKING DAYS) BEFORE STARTING WORK.
- 10. THE OWNER/CONTRACTOR SHALL OBTAIN ALL REQUIRED FINAL INSPECTIONS TO MEET PERMIT REQUIREMENTS. INSPECTIONS MUST BE SCHEDULED AT LEAST 48 HOURS IN ADVANCE.
- 11. CONNECTIONS TO EXISTING SEWER MAINS SHALL BE MADE ONLY WITH WRITTEN APPROVAL OF THE DISTRICT AND ONLY AFTER AT LEAST 48 HOURS (TWO REGULAR WORKING DAYS) ADVANCE NOTICE.
- 12. EXISTING SEWERS TO REMAIN IN SERVICE AT ALL TIMES.
- 13. ALL WATER AND/OR CONSTRUCTION DEBRIS SHALL BE REMOVED FROM NEW FORCE MAIN AND SHALL NOT BE PERMITTED TO ENTER THE EXISTING SYSTEM.
- 14. EXISTING MANHOLE NO. 820-7 SHALL BE CORE-DRILLED AND RE-CHANNELED AS REQUIRED TO RECEIVE INCOMING FLOW FROM THE NEW FORCE MAIN.

SOOS CREEK WATER & SEWER DISTRICT CONSTRUCTION PROVISIONS

- 1. STANDARD SPECIFICATIONS
- 2. TRENCH EXCAVATION, BEDDING AND BACKFILL

ALL WORK, MATERIALS AND TESTING SHALL CONFORM TO THE STANDARDS OF SOOS CREEK WATER & SEWER DISTRICT AND THE "STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION", CURRENT EDITION, AS PREPARED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION, AND HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS," EXCEPT AS HEREIN MODIFIED.

ALL WORK WITHIN THE RIGHT-OF-WAY SHALL COMPLY WITH ALL PERTINENT PERMITS, THE GOVERNING AGENCY'S CURRENT ROAD STANDARDS, AND THE STANDARD SPECIFICATIONS. ALL MATERIAL FROM CLEARING AND GRUBBING SHALL BE HAULED TO AN APPROVED WASTE DISPOSAL SITE PROVIDED BY THE OWNER/CONTRACTOR.

WHEN TRENCHING THROUGH EXISTING PAVEMENT, THE PAVEMENT SHALL BE CUT ON A NEAT-LINE BY SAW CUTTING. TRENCH SIDES SHALL BE KEPT AS VERTICAL AS POSSIBLE GIVEN THE SOIL CONDITIONS. COMPACTION AND RESTORATION SHALL BE DONE AS DETAILED BELOW AND IMMEDIATELY AFTER THE TRENCH BACKFILL IS PLACED, SO AS TO CAUSE THE LEAST DISRUPTION TO TRAFFIC. ALL PAVEMENT SHALL BE CUT 1 FOOT OUTSIDE THE EDGE OF THE TRENCH ON EACH SIDE.

ANY TRENCH EXCEEDING FOUR FEET IN DEPTH SHALL BE PROVIDED WITH ADEQUATE SAFETY SYSTEMS MEETING THE REQUIREMENTS OF THE WASHINGTON STATE INDUSTRIAL SAFETY AND HEALTH ACT (WISHA), CHAPTER 49.17 RCW, AND ALL REGULATIONS ADOPTED PURSUANT THERETO. THE CONTRACTOR SHALL HAVE A STRUCTURAL ENGINEER REVIEW AND STAMP ANY AND ALL SHORING PLANS AND CALCULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WORKER SAFETY AND THE DISTRICT AND THE DISTRICT'S ENGINEER ASSUME NO RESPONSIBILITY. WHEN NATIVE MATERIAL AT THE TRENCH BOTTOM IS SUITABLE FOR PIPE BEDDING, THE BOTTOM SHALL BE HAND FINISHED TO GRADE SO THAT THE PIPE WILL HAVE UNIFORM SUPPORT ALONG THE BARREL AND BELL. AFTER THE PIPE IS IN PLACE, ADDITIONAL HAND SELECTED NATIVE MATERIAL MEETING THE REQUIREMENTS FOR BEDDING MATERIAL SHALL BE PLACED AND TAMPED AROUND THE PIPE FOR A MINIMUM OF 4 INCHES ABOVE THE CROWN OF THE PIPE.

WHEN NATIVE MATERIAL AT THE TRENCH BOTTOM IS STONY OR OTHERWISE NON-UNIFORM, THE TRENCH SHALL BE OVER-EXCAVATED A MINIMUM OF 6 INCHES BELOW THE SPECIFIED GRADE AND A LAYER OF PIPE BEDDING MATERIAL SHALL BE FURNISHED AND PLACED TO THE SPECIFIED GRADE. AFTER THE PIPE IS IN PLACE, ADDITIONAL HAND SELECTED NATIVE MATERIAL MEETING THE REQUIREMENTS FOR BEDDING MATERIAL SHALL BE PLACED AND TAMPED AROUND THE PIPE FOR A MINIMUM OF 4 INCHES ABOVE THE CROWN OF THE PIPE.

IF THE NATIVE MATERIAL AT THE TRENCH BOTTOM IS UNSUITABLE FOR FOUNDATION PURPOSES OR WILL HAVE DIFFICULTY PROVIDING UNIFORM BEARING FOR THE PIPE, SUCH MATERIAL SHALL BE REMOVED AND REPLACED WITH A MINIMUM OF 6 INCHES OF COMPACTED FOUNDATION MATERIAL.

THE BEDDING MATERIAL SHALL BE CARRIED UP EVENLY ON BOTH SIDES OF THE PIPE SIMULTANEOUSLY IN APPROXIMATELY 6-INCH LAYERS AND EACH LAYER THOROUGHLY COMPACTED WITH APPROPRIATE TOOLS IN SUCH MANNER AS TO AVOID DAMAGING OR DISTURBING THE COMPLETED PIPELINE. ALL BEDDING AND NATIVE MATERIAL SHALL BE STORED AWAY FROM THE EDGES OF EXCAVATION AND OFF THE PAVED ROADWAY AND SHOULDER.

ALL TRENCH BACKFILL SHALL BE MECHANICALLY COMPACTED TO 95% OF THE MAXIMUM DENSITY WITHIN THE RIGHT-OF-WAY AND IN ALL AREAS (PAVED AND UNPAVED) WHERE STREETS, ROADWAY SHOULDERS, DRIVEWAYS, SIDEWALKS, OR PARKING LOTS WILL BE CONSTRUCTED OR RECONSTRUCTED OVER THE TRENCH EXCEPT FOR TRENCHES OVER 8 FEET IN DEPTH. WHEN THE TRENCH DEPTH EXCEEDS 8 FEET, TRENCH BACKFILL UP TO 4 FEET FROM THE TOP OF THE TRENCH SHALL BE MECHANICALLY COMPACTED TO 90% OF THE MAXIMUM DENSITY. THE REMAINING TOP 4 FEET OF THE TRENCH SHALL THEN BE MECHANICALLY COMPACTED TO 95% OF THE MAXIMUM DENSITY. IN UNPAVED AREAS AND OTHER AREAS NOT SUBJECT TO VEHICULAR TRAFFIC, TRENCH BACKFILL FROM THE PIPE TO WITHIN 3 FEET OF THE SURFACE SHALL BE COMPACTED TO 90% OF THE MAXIMUM DENSITY. THE UPPER 3 FEET SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY.

ALL DENSITIES SHALL BE DETERMINED BY TESTING PER THE MODIFIED PROCTOR METHOD, ASTM D1557. THE OWNER/CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING DENSITY TEST REPORTS CERTIFIED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF WASHINGTON. A MINIMUM OF ONE TEST SHALL BE TAKEN WITHIN EVERY 500 FEET OF TRENCH LENGTH AND AT DEPTHS UP TO 50% OF TRENCH DEPTH, OR AS DIRECTED BY THE DISTRICT'S FIELD REPRESENTATIVE OR THE GOVERNING ROAD AGENCY. COMPACTION OF LATERALS OR SERVICE LINE TRENCHES SHALL BE TESTED WHERE DIRECTED BY THE DISTRICT'S FIELD REPRESENTATIVE OR THE GOVERNING ROAD AGENCY. TESTING OF CDF, WHEN USED AS REQUIRED BY THE GOVERNING ROAD AGENCY, SHALL BE IN ACCORDANCE WITH ASTM 04832.

TRENCH BACKFILL SHALL BE PLACED IN UNIFORM LOOSE LAYERS NO MORE THAN 12 INCHES THICK AND MECHANICALLY COMPACTED AS SPECIFIED. IN ANY TRENCH WHERE THE SPECIFIED COMPACTION CANNOT BE ACHIEVED WITH NATIVE BACKFILL, THE TOP 4 FEET SHALL BE REPLACED AND COMPACTED TO 95% OF THE MAXIMUM DENSITY WITH IMPORTED BANK RUN GRAVEL. THE DISTRICT'S FIELD REPRESENTATIVE RESERVES THE RIGHT TO REQUEST A COMPACTION TEST AT ANY TIME ON THE BACKFILL MATERIAL.

IN CUTS TRANSVERSE TO THE ROAD ALIGNMENT AND AT ALL UTILITY CROSSINGS, THE ENTIRE TRENCH SHALL BE BACKFILLED WITH CRUSHED SURFACING. BACKFILL SHALL BE PLACED AND MECHANICALLY COMPACTED IN 12-INCH MAXIMUM LIFTS.

AFTER BACKFILL AND COMPACTION, AN IMMEDIATE COLD MIX PATCH SHALL BE PLACED AND MAINTAINED IN A MANNER ACCEPTABLE TO THE GOVERNING ROAD AGENCY UNTIL REPLACED WITH PERMANENT SURFACING.

THE DEWATERING PLAN TO THE DISTRICT FOR REVIEW AT LEAST 10 DAYS PRIOR TO COMMENCING ANY DEWATERING WORK. ALL DEWATERING EFFLUENT SHALL BE ROUTED THROUGH A DEWATERING POND PRIOR TO RELEASE.

GROUNDWATER SHALL BE CONTROLLED SUCH THAT SOFTENING OF THE BOTTOM OF EXCAVATIONS OR FORMATION OF "QUICK" CONDITIONS OR "BOILS" DURING EXCAVATION SHALL BE PREVENTED, AND NO SOIL SHALL BE ERODED INTO THE EXCAVATION FROM THE SIDES OF EXCAVATION. DEWATERING SYSTEMS SHALL BE DESIGNED AND OPERATED SO AS TO PREVENT REMOVAL OF THE NATURAL SOILS. THE OWNER/CONTRACTOR SHALL AT ALL TIMES HAVE ON HAND SUFFICIENT PUMPING EQUIPMENT AND MACHINERY IN GOOD WORKING CONDITION FOR ALL ORDINARY EMERGENCIES, INCLUDING POWER OUTAGES, AND SHALL HAVE AVAILABLE AT ALL TIMES COMPETENT WORKERS FOR THE OPERATION OF SAID EQUIPMENT.

OWNER/CONTRACTOR SHALL CONTROL SURFACE RUNOFF SO AS TO PREVENT ENTRY OR COLLECTION OF WATER IN EXCAVATIONS AND SHALL MAINTAIN THE UNDISTURBED STATE OF THE FOUNDATION SOILS AND ALLOW THE PLACEMENT OF ANY BACKFILL TO THE REQUIRED DENSITY. THE RELEASE OF GROUNDWATER TO ITS STATIC LEVEL SHALL BE PERFORMED IN SUCH A MANNER AS TO MAINTAIN THE UNDISTURBED STATE OF THE NATURAL FOUNDATION SOILS, PREVENT DISTURBANCE OF COMPACTED BACKFILL, AND PREVENT FLOTATION OR MOVEMENT OF STRUCTURES AND PIPELINES.

OWNER/CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL PERMIT REQUIREMENTS AND PROVISIONS FOR MONITORING AND MANAGING WATER DISCHARGED FROM THE EXCAVATION.

CONNECTIONS TO EXISTING SEWER SYSTEM

CONNECTIONS TO EXISTING LINES SHALL BE MADE ONLY WITH THE WRITTEN APPROVAL OF SOOS CREEK WATER & SEWER DISTRICT. THE OWNER/CONTRACTOR SHALL NOTIFY THE DISTRICT'S FIELD REPRESENTATIVE AND OTHER UTILITIES AT LEAST 48 HOURS IN ADVANCE OF ANY CONSTRUCTION AND MAKE THE NECESSARY ARRANGEMENTS WITH THE DISTRICT'S FIELD REPRESENTATIVE FOR THE CONNECTION TO THE EXISTING SEWER SYSTEM. THE OWNER/CONTRACTOR SHALL FURNISH ALL MATERIAL, EQUIPMENT, AND LABOR NECESSARY FOR MAKING THE CONNECTION UNDER THE SUPERVISION OF THE DISTRICT. THE 48-HOUR NOTICE REQUIREMENT SHALL NOT COUNT SATURDAYS, SUNDAYS, AND HOLIDAYS.

WORK SHALL NOT BE STARTED UNTIL ALL OF THE MATERIAL, EQUIPMENT, AND LABOR NECESSARY TO PROPERLY COMPLETE WORK IS ASSEMBLED ON THE SITE. ONCE WORK IS STARTED ON A CONNECTION, IT SHALL PROCEED CONTINUOUSLY WITHOUT INTERRUPTION AND AS RAPIDLY AS POSSIBLE UNTIL THE CONNECTION IS COMPLETED. BEFORE ORDERING MATERIALS FOR ANY CONNECTION TO AN EXISTING MANHOLE, OWNER/CONTRACTOR SHALL EXCAVATE THE MANHOLE AND VERIFY OUTSIDE DIAMETER OF ALL PIPES FOR DETERMINING TYPES OF FITTINGS TO BE USED. ALL WORK SHALL BE COORDINATED WITH THE DISTRICT'S FIELD REPRESENTATIVE. THE EXISTING SEWERS SHALL REMAIN IN SERVICE AT ALL TIMES.

CONNECTIONS TO SANITARY SEWER MANHOLES SHALL BE MADE USING A SAND COLLAR, A CONCRETE COUPLING OR A KOR-N-SEAL BOOT. THE PIPE TO MANHOLE CONNECTION SHALL BE WATERTIGHT. ANY LEAKS IN THE COUPLINGS OR OTHER AREAS CREATED WHILE CONNECTING TO THE EXISTING MANHOLE SHALL BE SEALED WITH STRATA TECH ST-520 INJECTION RESIN OR APPROVED EQUAL.

OWNER/CONTRACTOR SHALL RE-CHANNEL EXISTING MANHOLES AS NECESSARY TO SMOOTHLY DIRECT THE FLOW INTO THE EXISTING SYSTEM.

ALL WATER AND/OR CONSTRUCTION DEBRIS SHALL BE REMOVED FROM NEW SEWERS AND NOT BE PERMITTED TO ENTER THE EXISTING SYSTEM. THE OWNER/CONTRACTOR SHALL BE RESPONSIBLE FOR FLUSHING OUT AND CLEANING ANY EXISTING SEWERS INTO WHICH GRAVEL, ROCKS, OR OTHER DEBRIS HAS ENTERED AS A RESULT OF THE OWNER'S/CONTRACTOR'S OPERATIONS, AND SHALL PAY FOR REPAIR TO LIFT STATIONS OR OTHER FACILITIES DAMAGED BY SUCH DEBRIS. ALL FLUSHING WATER SHALL BE PUMPED FROM UPSTREAM MANHOLES OR SEWER LINES AND SHALL NOT BE ALLOWED TO ENTER THE EXISTING SEWER.

MINIMUM SEPARATION BETWEEN SEWER AND WATER MAINS SHALL CONFORM TO SECTION C1-9.1 OF THE "CRITERIA FOR SEWAGE WORKS DESIGN", CURRENT EDITION, AS PUBLISHED BY THE DEPARTMENT OF ECOLOGY. MINIMUM SEPARATION BETWEEN OTHER UTILITIES SHALL BE 6 INCHES WITH A SAND CUSHION.

PUGET SOUND ENERGY VAULTS, HAND HOLES, AND LIGHT STANDARDS SHALL BE LOCATED NO CLOSER THAN 10 FEET FROM ANY SEWER MAINS AND STUB SERVICES. OWNER/CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF VAULTS, HAND HOLES, AND LIGHT STANDARDS WITH THE SEWER STUB SERVICES. NO CONSTRUCTION SHALL START UNTIL THE OWNER/CONTRACTOR HAS FURNISHED THE DISTRICT WITH A WORK SKETCH FROM PUGET SOUND ENERGY OR A SIGNED HOLD HARMLESS AGREEMENT (FORM SUPPLIED BY THE DISTRICT) IS PROVIDED.

WHEN DIGGING NEAR FITTINGS ON EXISTING PIPELINES, TEMPORARY BLOCKING SHALL BE INSTALLED TO PREVENT BLOWOUTS. BLOCKING SHALL ALLOW FOR ANY CONNECTIONS TO THE FITTING TO BE REMOVED WITHOUT DAMAGING THE FITTING. THRUST BLOCKING SHALL CONFORM TO THE STANDARD DETAILS, WHERE UNFAVORABLE GROUND CONDITIONS ARE ENCOUNTERED, SPECIAL BLOCKING MAY BE REQUIRED AS DIRECTED BY THE DISTRICT IN THE FIELD.

GRAVITY SEWERS AND APPURTENANCES SHALL BE TESTED AFTER BACKFILLING BY THE LOW-PRESSURE AIR METHOD IN ACCORDANCE WITH SECTION 7-17.3(2) OF THE STANDARD SPECIFICATIONS, EXCEPT WHERE THE GROUND WATER TABLE IS SUCH THAT THE DISTRICT MAY REQUIRE THE INFILTRATION TEST. FINAL ACCEPTANCE OF THE SEWER MAIN INSTALLATION WILL BE SUBJECT TO THE DISTRICT'S RESOLUTION NO. 1904-S, WHICH ALLOWS A MAXIMUM PONDING DEPTH OF 3/4-INCH. IN THE EVENT OF CONFLICTS BETWEEN THE STANDARDS ESTABLISHED IN RESOLUTION NO. 1904-S AND THE STANDARDS SPECIFIED IN SECTION 7-17.3(2) OF THE STANDARD SPECIFICATIONS, THE STANDARDS OF THE RESOLUTION WILL TAKE PRECEDENCE.

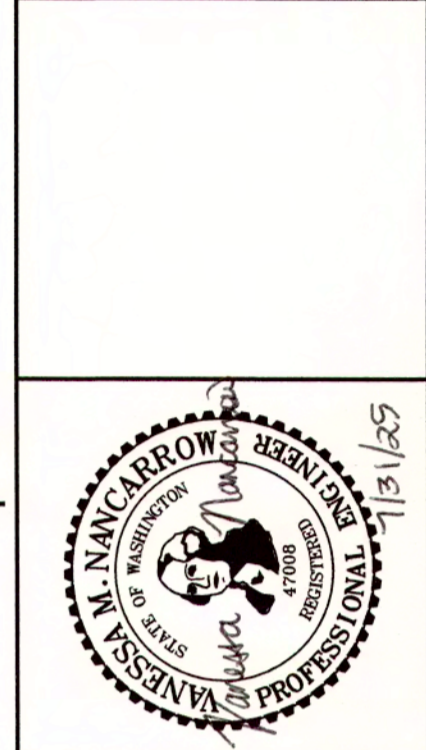
BROKEN OR OTHERWISE DEFECTIVE PIPE SHALL BE REMOVED AND REPLACED.

- REPAIR BANDS OR CLAMPS SHALL NOT BE USED TO REPAIR BROKEN PIPE.
- 8. JACKED CROSSING - NOT APPLICABLE FOR THIS PROJECT
- 10. EXISTING UTILITIES
- EXISTING UTILITIES SHOWN ON ANY REFERENCE DRAWINGS PROVIDED BY THE DISTRICT HAVE BEEN PLOTTED FROM THE BEST INFORMATION AVAILABLE TO THE DISTRICT. THE OWNER/CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES WELL ENOUGH IN ADVANCE OF THE EXCAVATION TO PREVENT DAMAGE DURING CONSTRUCTION. THE OWNER/CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE RESULTING FROM HIS OPERATIONS ON THE PROJECT.
- 11. WARRANTY PERIOD - NOT APPLICABLE FOR THIS PROJECT

ADDITIONAL CONSTRUCTION PROVISIONS

- 1. GENERAL
 - A. PIPING DIMENSIONS SHOWN ON THE DRAWINGS MAY VARY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FURNISH AND INSTALL PIPING OF THE PROPER DIMENSIONS, WHICH WILL PROPERLY FIT WITH THE CONNECTING ELEMENTS, PIPES, FITTINGS, VALVES, ETC.
 - B. PIPE SHALL BE HANDLED AND STORED IN SUCH A MANNER AS TO ENSURE A SOUND, UNDAMAGED CONDITION.
- 2. TRENCH EXCAVATION
 - A. EXCAVATE TRENCHES IN ACCORDANCE WITH APPLICABLE OSHA, WASHINGTON STATE, AND OTHER REGULATIONS. PROVIDE SHORING AND OTHER SUPPORT AS REQUIRED BY THE REGULATIONS, INDUSTRY PRACTICE, AND SITE-SPECIFIC CONDITIONS. SAFE EXCAVATIONS AND TEMPORARY CONSTRUCTION SLOPES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
 - B. PROTECT EXCAVATIONS FROM CAVING, FLOODING, OR OTHER CAUSES OF DAMAGE. DAMAGE TO EXCAVATIONS SHALL BE REPAIRED BY CONTRACTOR AT HIS OWN EXPENSE.
- 3. CUTTING AND JOINING OF FORCE MAIN PIPE
 - A. PIPE SHALL BE CUT IN A NEAT, WORKMANLIKE MANNER USING AN APPROVED MECHANICAL CUTTER THAT WILL NOT DAMAGE THE PIPE.
 - B. JOINING OF HDPE PIPE TO HDPE PIPE SHALL BE ACCOMPLISHED BY THERMAL BUTT FUSION JOINTS; NO SOLVENT WELDING OR ADHESIVE WELDING SHALL BE ALLOWED. ELECTROFUSION COUPLINGS MAY BE USED IF APPROVED IN ADVANCE IN WRITING BY THE ENGINEER.
 - C. PIPE SHALL BE JOINED IN ACCORDANCE WITH ASTM D2657 AND MANUFACTURER'S RECOMMENDATIONS. INSTALLATION PERSONNEL WHO JOIN HDPE PIPE SHALL BE EXPERIENCED AND CERTIFIED IN ACCORDANCE WITH 49 CFR 192.285. THE CONTRACTOR SHALL SUBMIT A LIST OF PROPOSED JOINING PERSONNEL AND THEIR QUALIFICATIONS.
 - D. SINGLE BUTT FUSION WELDS SHALL BE USED TO CREATE PIPE SECTIONS AS LONG AS PRACTICABLE. FABRICATED PIPE JOINTS AND FITTINGS MAY BE JOINED BY THE DOUBLE BUTT FUSION PROCESS.
 - E. JOINT DEFLECTION: MAXIMUM OF 75 PERCENT OF MANUFACTURER'S RECOMMENDATION.
 - F. WHERE FLANGED JOINTS ARE USED, THE BOLTS SHALL BE EVENLY TORQUED USING A CROSSING PATTERN TO GRADUALLY TIGHTEN THE LUG NUTS. TORQUE VALUES SHALL BE AS RECOMMENDED BY THE FLANGE MANUFACTURER. FLANGED JOINTS SHALL BE RETORQUED AFTER ONE HOUR OR MORE HAS PASSED.
 - G. ALL VALVES AND EQUIPMENT SHALL BE SUPPORTED INDEPENDENTLY FROM PIPE. ANCHOR VALVES SUCH THAT TURNING MOMENT RESULTING FROM THEIR OPERATION WILL NOT BE TRANSMITTED TO PIPE.
 - H. SPECIAL PRECAUTIONS AT FLANGES: POLYETHYLENE PIPE CONNECTED TO HEAVY FITTINGS, MANHOLES, AND RIGID STRUCTURES SHALL BE SUPPORTED IN SUCH A MANNER THAT NO SUBSEQUENT RELATIVE MOVEMENT BETWEEN POLYETHYLENE PIPE AT FLANGED JOINT AND RIGID STRUCTURES IS POSSIBLE.

H	CJC	25.07.17	ISSUED FOR BID
G	CJC	25.07.02	DRAFT DESIGN FOR AGENCY REVIEW
F	KMD	25.05.22	DRAFT DESIGN FOR AGENCY REVIEW
E	THR	24.12.20	DRAFT DESIGN FOR AGENCY REVIEW
D	THR	24.10.04	DRAFT DESIGN ISSUED FOR CONTRACTOR BIDDING
NO.	BY	DATE	DESCRIPTION
REVISIONS			



DATE APPROVED	25.07.17
PRINCIPAL APPROVAL	GZ
DESIGN	VMIN
DRAWN	CJC
CHECKED	FSS
JOB NO.	9231000007
SCALE	N.T.S.
HORIZ. VERT.	1:1
DES. FLD. BK. NO.	
CST. FLD. BK. NO.	
P.C.	

SOOS CREEK WATER & SEWER DISTRICT

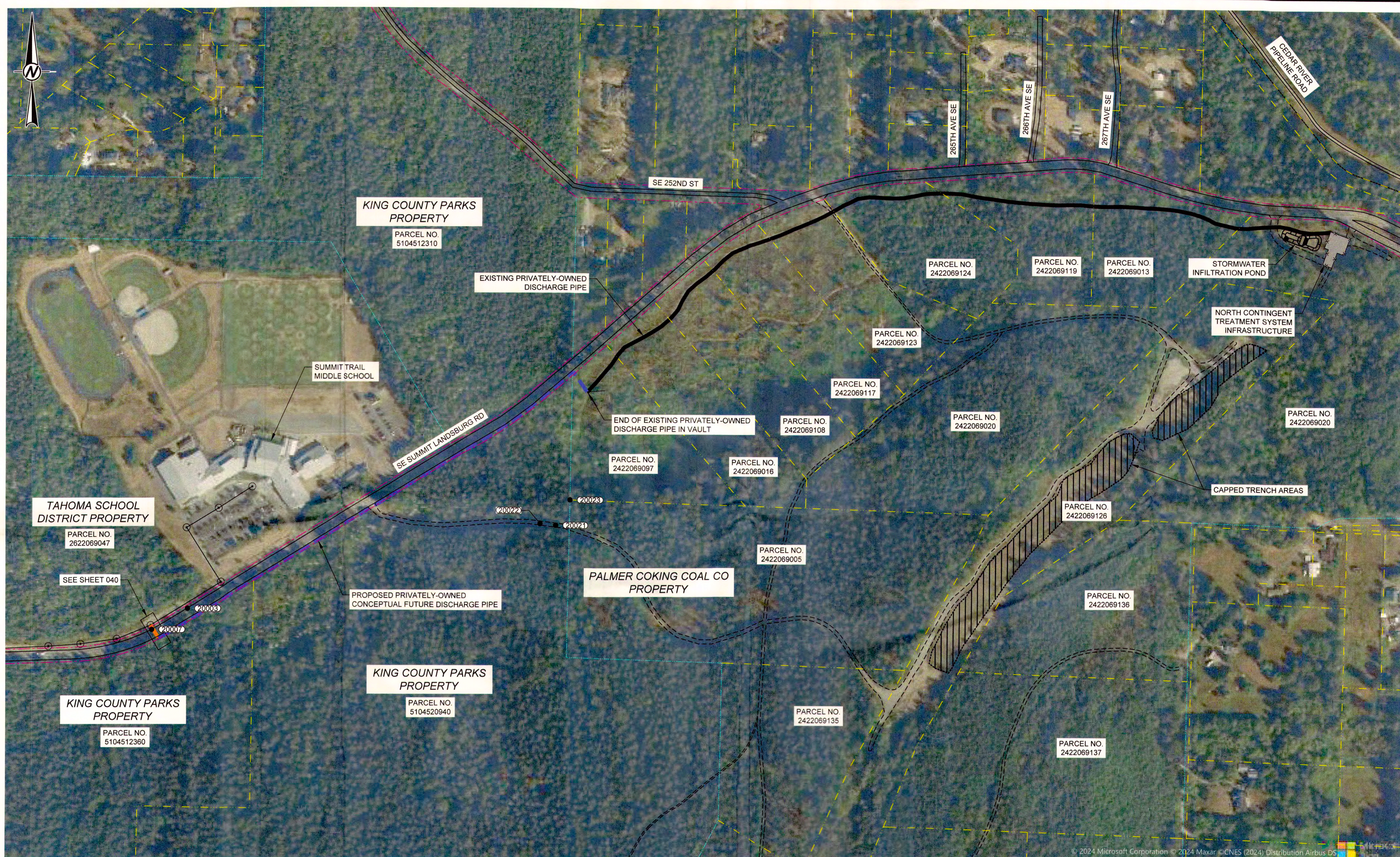
18300 REDMOND WAY, SUITE 200
REDMOND, WA 98052
F+1 (425) 883 0777 / WSP.COM

LANDSBURG MINE SITE - MTCA REMEDIAL ACTION
KING COUNTY, WASHINGTON
DISCHARGE PIPE CONNECTION TO SEWER SYSTEM
GENERAL NOTES AND SPECIFICATIONS (1 OF 2)

BASE MAP	
SHEET	2 OF 8
DRAWING	020

PLAN REVIEW 04-1488
BASIN MAP P-21

Path: V:\proj\pham\enr\US\Central\US\1300\geomatica\Printer\Color\Coal\Landfill\Map\KING_PARKS\PROJECTS\2021\000007_Enr\Rev\5000_Direct\p\p\Design\02_PROD\PRODUCTION\DWG_1 File Name: 021000007_5000_005.dwg | Last Edited By: uavm70209 Date: 2025-07-02 Time: 7:17:40 PM | Printed By: USK0701463 Date: 2025-07-17 Time: 2:17:53 PM

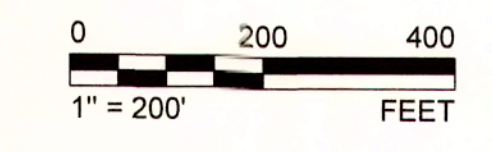



LEGEND	
	PROPOSED PRIVATELY-OWNED CONCEPTUAL FUTURE DISCHARGE PIPE (SEE NOTE 1)
	PROPOSED DISTRICT-OWNED FORCE MAIN
	EXISTING PRIVATELY-OWNED DISCHARGE PIPE
	SOOS CREEK SEWER SYSTEM
	SURVEY MONUMENTS AND CONTROL POINTS
	PROPERTY BOUNDARY
	PARCEL BOUNDARY
	KING COUNTY ROAD RIGHT-OF-WAY
	EXISTING PAVED ROAD
	EXISTING UNPAVED ROAD

NOTE(S)
 1. ROUTE SHOWN FOR THE PROPOSED FUTURE DISCHARGE PIPE IS CONCEPTUAL. IF THE CONTINGENT TREATMENT SYSTEM IS REQUIRED IN THE FUTURE, THE ACTUAL ROUTE WILL BE DETERMINED AT THAT TIME.

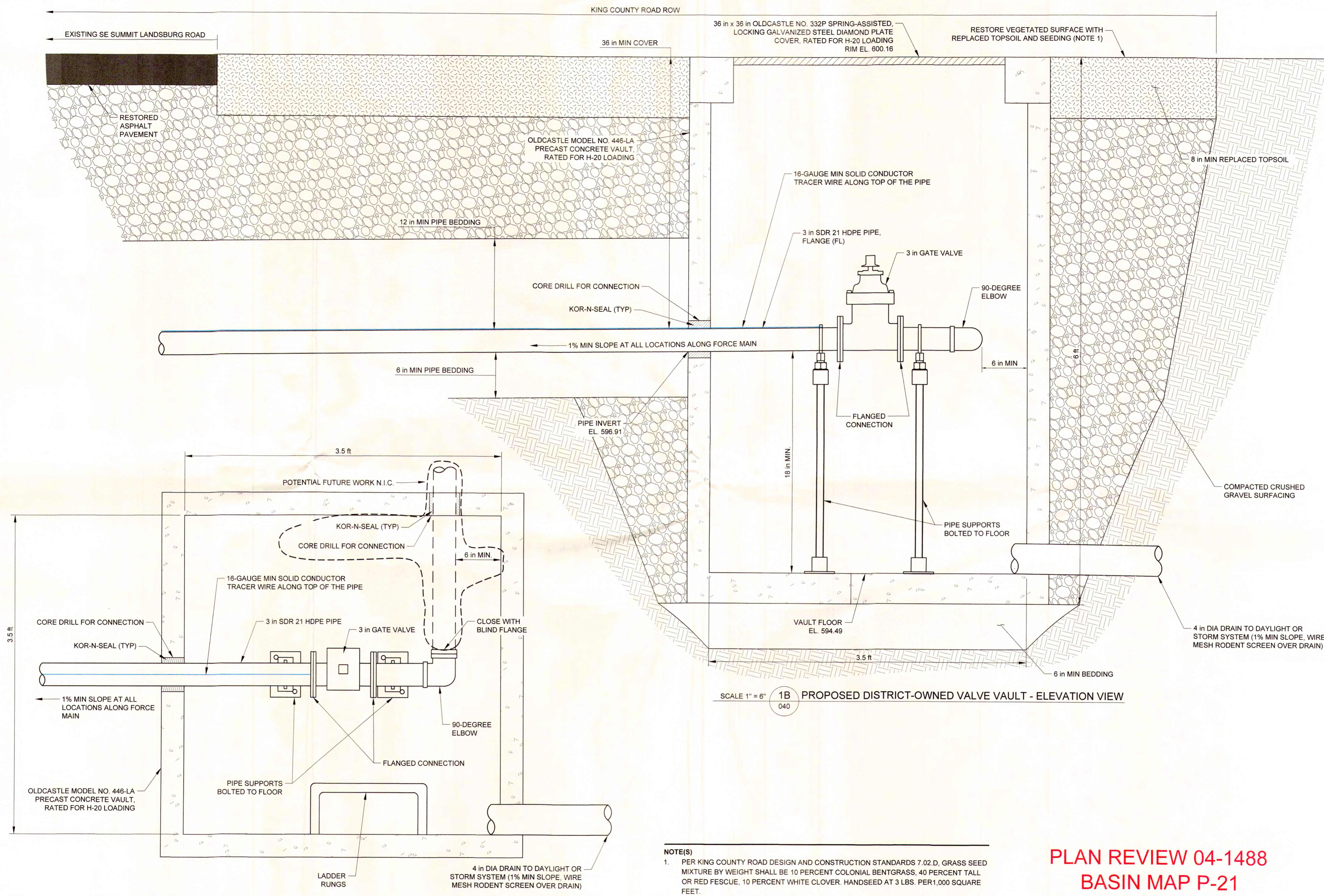
SURVEY CONTROL POINT TABLE				
POINT NO.	NORTHING (FT)	EASTING (FT)	ELEVATION (FT)	POINT DESCRIPTION
20003	137576.45	1350966.25	599.89	SMAG
20007	137488.96	1350816.58	599.22	SMAG
20021	137919.72	1352512.94	670.04	SET X
20022	137926.94	1352447.32	662.42	SET X
20023	138026.14	1352572.46	639.80	FND 14 3" BRASS

**PLAN REVIEW 04-1488
 BASIN MAP P-21**



																									
<p>WSP WSP 18300 REDMOND WAY, SUITE 200 REDMOND, WA 98062 [+1] (425) 883-0777 / WSP.COM <small>CST.FLD.BK. NO. PG.</small> <small>DES.FLD.BK. NO. PG.</small> <small>SCALE: HORIZ: 1" = 200' VERT: 1" = 10'</small></p>	<p>DATE APPROVED: 25.07.17 PRINCIPAL APPROVAL: GZ DESIGN: VMN DRAWN: CJC CHECKED: FSS JOB NO.: 9231000007</p>																								
<p>SOOS CREEK WATER & SEWER DISTRICT LANDSBERG MINE SITE - MTCA REMEDIAL ACTION KING COUNTY, WASHINGTON DISCHARGE PIPE CONNECTION TO SEWER SYSTEM PROJECT AREA OVERVIEW</p>																									
<p>BASE MAP: SHEET 4 OF 8 DRAWING: 030</p>																									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>BY</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>H</td> <td>C/C</td> <td>25.07.17</td> <td>ISSUED FOR BID</td> </tr> <tr> <td>G</td> <td>C/C</td> <td>25.07.02</td> <td>DRAFT DESIGN FOR AGENCY REVIEW</td> </tr> <tr> <td>F</td> <td>KMD</td> <td>25.05.22</td> <td>DRAFT DESIGN FOR AGENCY REVIEW</td> </tr> <tr> <td>E</td> <td>THR</td> <td>24.12.20</td> <td>DRAFT DESIGN FOR AGENCY REVIEW</td> </tr> <tr> <td>D</td> <td>THR</td> <td>24.10.04</td> <td>DRAFT DESIGN ISSUED FOR CONTRACTOR BIDDING</td> </tr> </tbody> </table>		NO.	BY	DATE	DESCRIPTION	H	C/C	25.07.17	ISSUED FOR BID	G	C/C	25.07.02	DRAFT DESIGN FOR AGENCY REVIEW	F	KMD	25.05.22	DRAFT DESIGN FOR AGENCY REVIEW	E	THR	24.12.20	DRAFT DESIGN FOR AGENCY REVIEW	D	THR	24.10.04	DRAFT DESIGN ISSUED FOR CONTRACTOR BIDDING
NO.	BY	DATE	DESCRIPTION																						
H	C/C	25.07.17	ISSUED FOR BID																						
G	C/C	25.07.02	DRAFT DESIGN FOR AGENCY REVIEW																						
F	KMD	25.05.22	DRAFT DESIGN FOR AGENCY REVIEW																						
E	THR	24.12.20	DRAFT DESIGN FOR AGENCY REVIEW																						
D	THR	24.10.04	DRAFT DESIGN ISSUED FOR CONTRACTOR BIDDING																						

Path: \\corp.pblwin.net\US\CentralData\US\XLC300\geomatics\Palmer\King\Col\Landburg\VA99_PROJECTS\923100007_EnvRem\5000_Discharge\PipeDesign\02_PROD\CON\DWG | File Name: 923100007_5000_008.dwg | Last Edited By: usm701209 Date: 2025-07-02 Time: 9:42:24 PM | Printed By: USK0701483 Date: 2025-07-17 Time: 2:16:51 PM

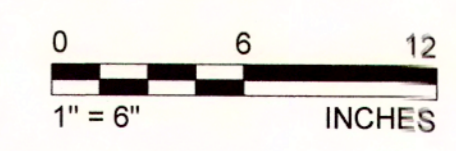


SCALE 1" = 6" **1A** PROPOSED DISTRICT-OWNED VALVE VAULT - PLAN VIEW
040

SCALE 1" = 6" **1B** PROPOSED DISTRICT-OWNED VALVE VAULT - ELEVATION VIEW
040

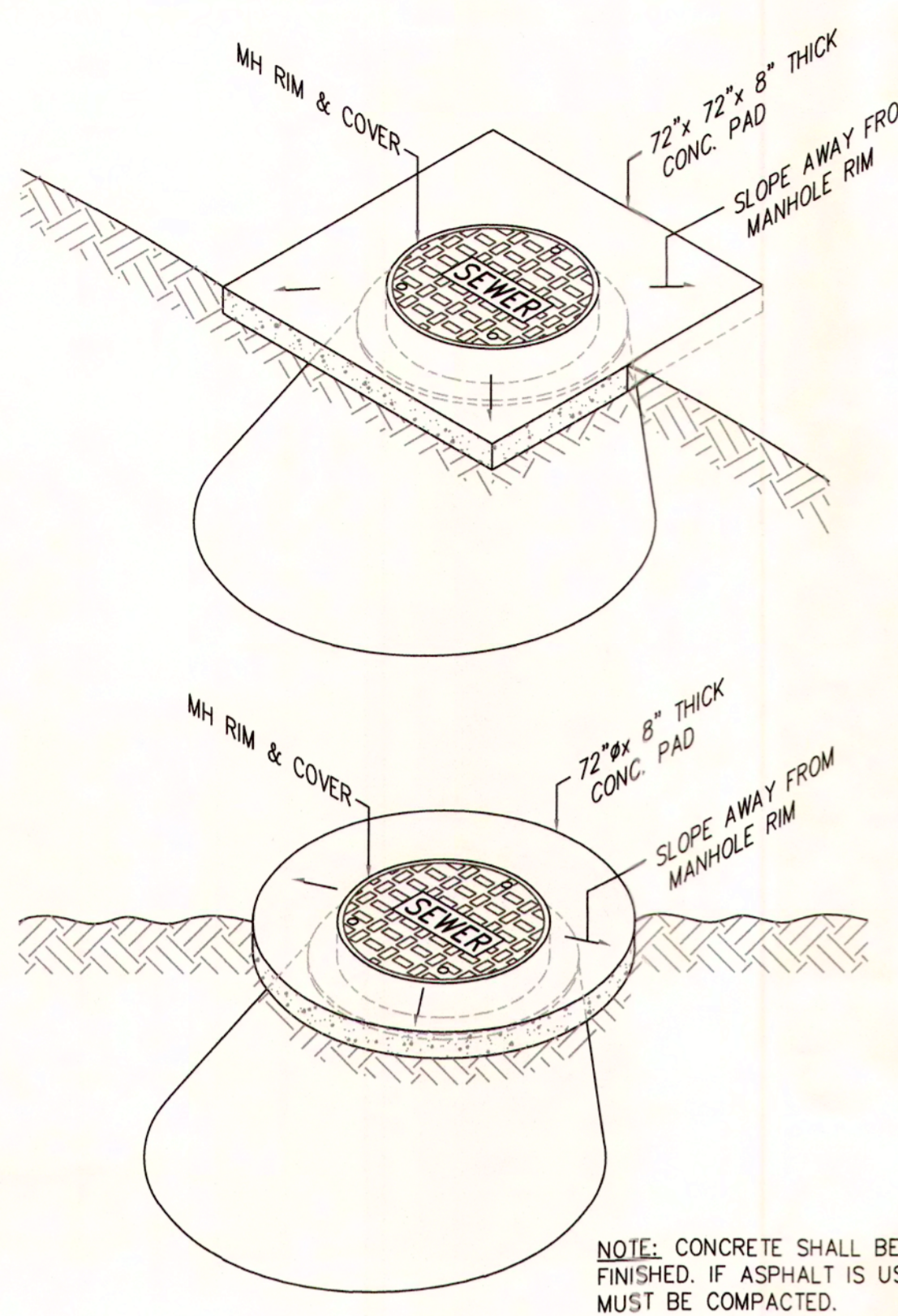
NOTE(S)
 1. PER KING COUNTY ROAD DESIGN AND CONSTRUCTION STANDARDS 7.02.D, GRASS SEED MIXTURE BY WEIGHT SHALL BE 10 PERCENT COLONIAL BENTGRASS, 40 PERCENT TALL OR RED FESCUE, 10 PERCENT WHITE CLOVER. HANDSEED AT 3 LBS. PER 1,000 SQUARE FEET.

**PLAN REVIEW 04-1488
 BASIN MAP P-21**



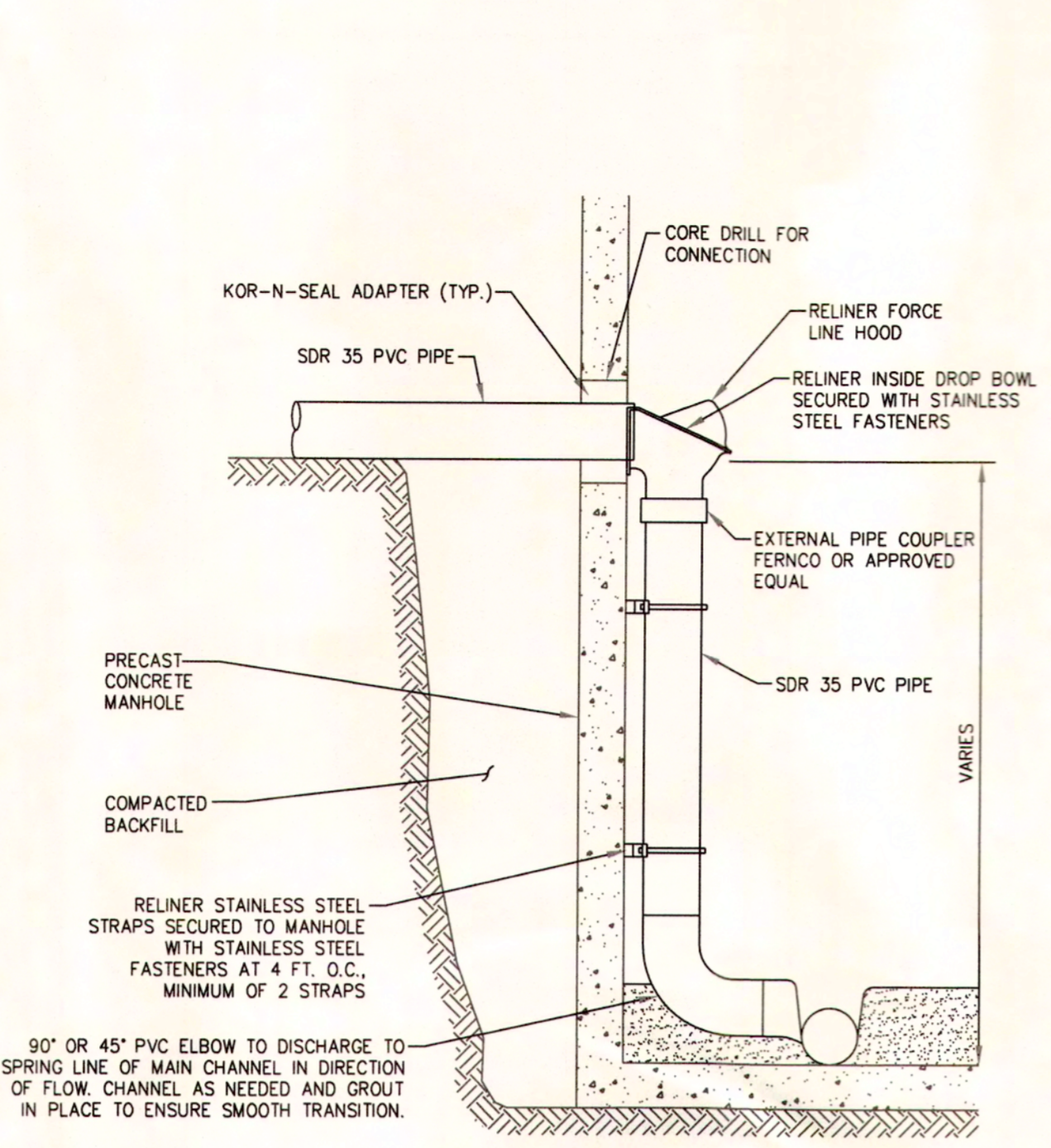
DATE APPROVED	25.07.17
PRINCIPAL APPROVAL	GZ
DESIGN	VMN
DRAWN	CJC
CHECKED	FSS
JOB NO.	9231000007
WSP 18300 REDMOND WAY, SUITE 200 REDMOND, WA 98052 [+1] (425) 883.0777 / WSP.COM	
DESIGNER	NO. / PC.
DRAWN	NO. / PC.
CHECKED	NO. / PC.
DATE	NO. / PC.
SOOS CREEK WATER & SEWER DISTRICT LANDSBURG MINE SITE - MTCA REMEDIAL ACTION KING COUNTY, WASHINGTON DISCHARGE PIPE CONNECTION TO SEWER SYSTEM PROPOSED FORCE MAIN DETAILS (1 OF 2)	
BASE MAP	
SHEET	6 OF 8
DRAWING	050

Path: \\corp.bwan.net\US\CentralData\US\CLC300\geomatics\PalmerCokingCoal\Coal\Coal\Production\Design\02_PROD\000007_5000_009.dwg | File Name: 9231000007_5000_009.dwg | Last Edited By: usk8701463 | Date: 2025-04-30 | Time: 9:28:52 AM | Printed By: usk8701463 | Date: 2025-07-17 | Time: 2:19:22 PM



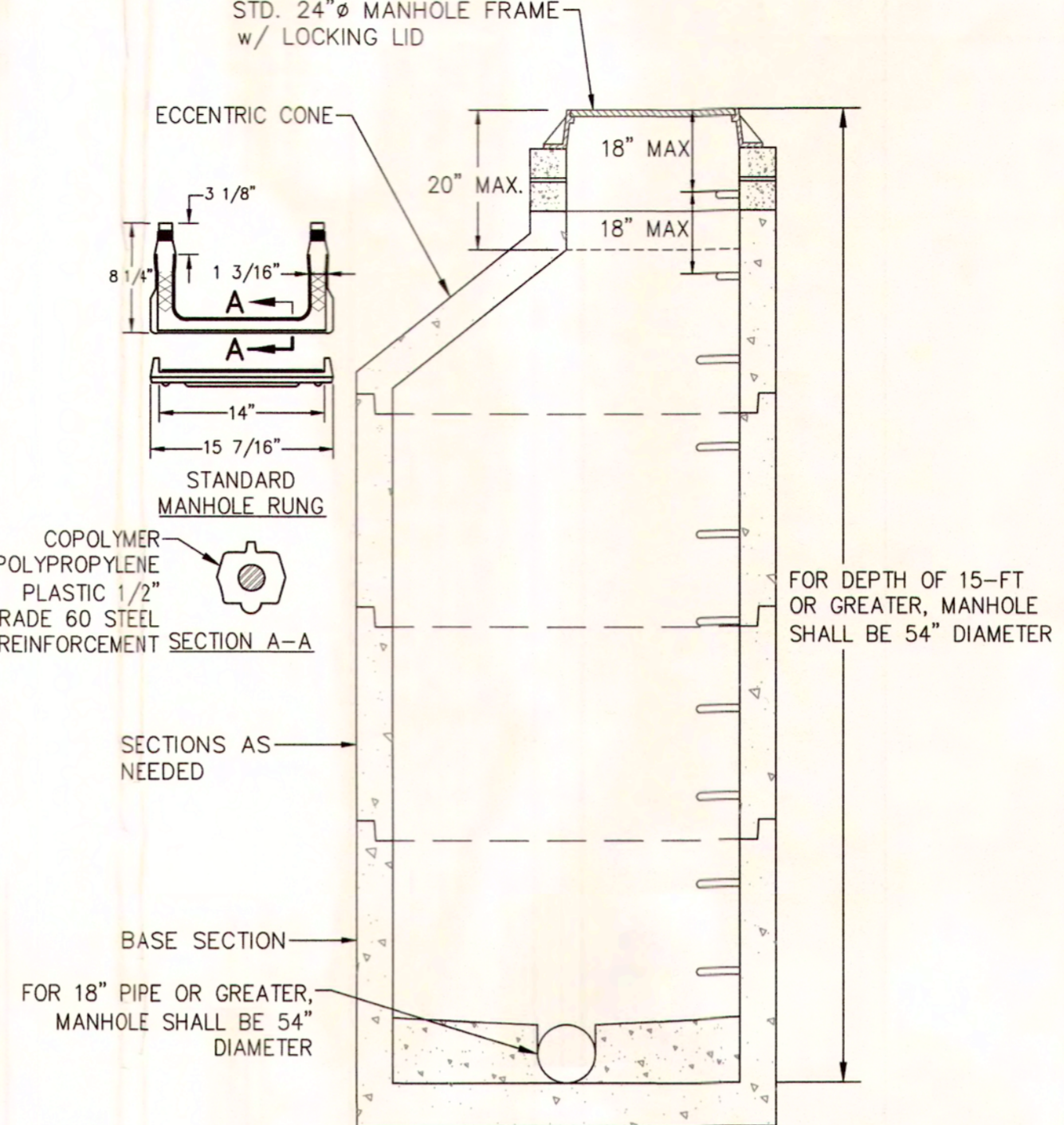
MANHOLE RIM AND COVER OFF PAVEMENT

REVISION DATE: MAY 17, 2011 | SCALE: NTS | DISTRICT APPROVAL: Gregory G. Hill P.E. | DATE APPROVED: APRIL 18, 2023
 FILE NAME: S-23.DWG | DWG. NO.: S-23



DROP MANHOLE DETAIL

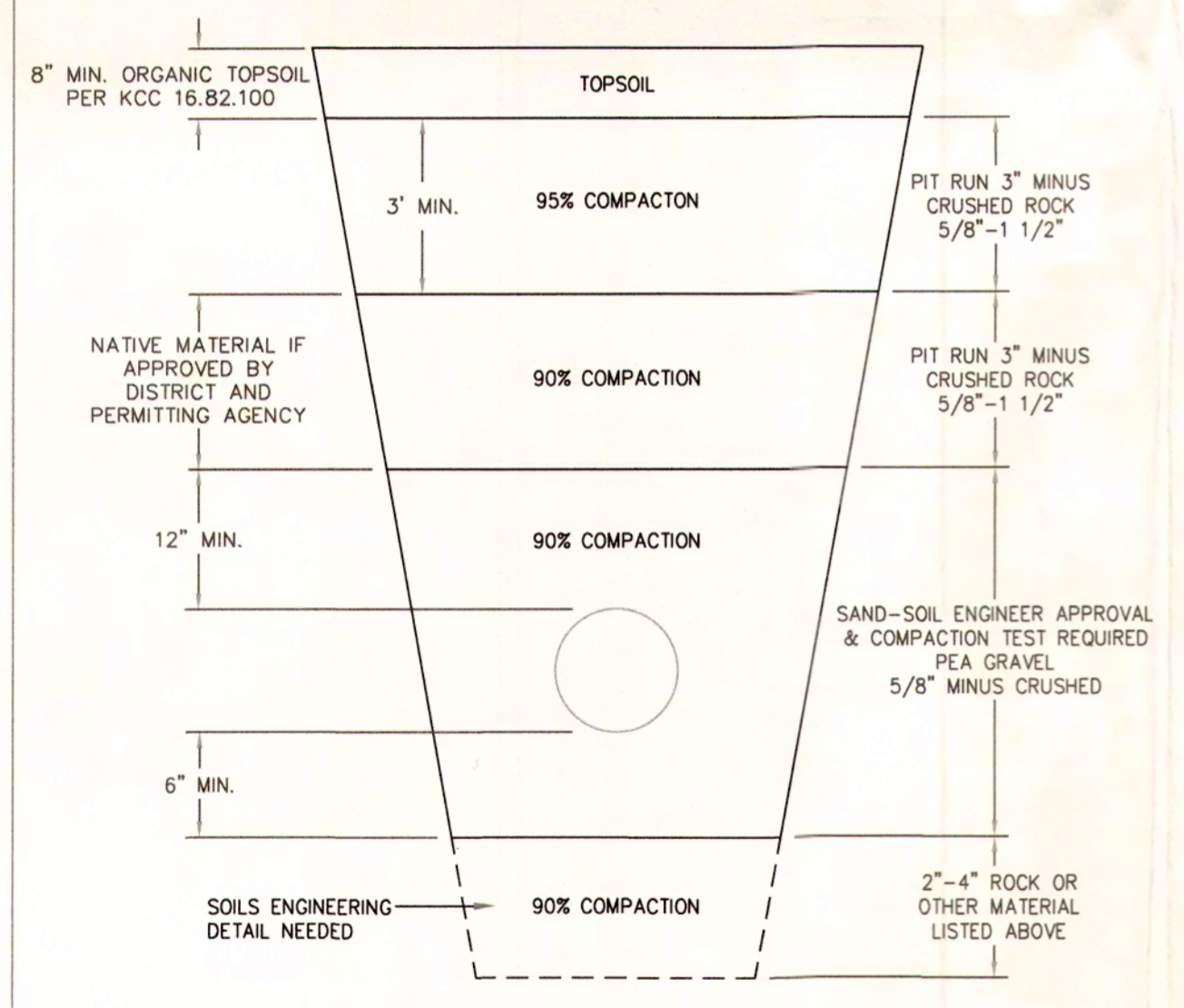
REVISION DATE: FEBRUARY 1, 2023 | SCALE: NTS | DISTRICT APPROVAL: Gregory G. Hill P.E. | DATE APPROVED: APRIL 18, 2023
 FILE NAME: S-25.DWG | DWG. NO.: S-25



STANDARD MANHOLE DETAIL

REVISION DATE: JANUARY 2, 2025 | SCALE: NTS | DISTRICT APPROVAL: Gregory G. Hill P.E. | DATE APPROVED: JANUARY 2, 2025
 FILE NAME: S-27.DWG | DWG. NO.: S-27

- NOTES:**
- A MINIMUM OF ONE ADJUSTMENT RING SHALL BE INSTALLED BETWEEN THE BREAK OF THE CONE AND THE MANHOLE COVER.
 - SAFETY HAND HOLD RUNG SHALL BE NO GREATER THAN 18" FROM TOP OF CASTING. IF GREATER THAN 18" INSTALL ADDITIONAL HAND HOLD RUNG. SPACE EQUALLY. USE CORROSION RESISTANT EPOXY FOR ALL MANHOLE RUNG INSTALLATIONS AND FINISH WITH EQUAL PARTS PORTLAND CEMENT AND SAND MIXTURE.
 - ALL EXTERIOR AND INTERIOR JOINTS AND PICK HOLES SHALL BE GROUTED WITH EQUAL PARTS PORTLAND CEMENT AND SAND ONLY. CALCIUM MAY BE USED.



TRENCH WIDTHS (IN INCHES)

NOMINAL PIPE DIAMETER	MINIMUM EARTH	MINIMUM ROCK	MAXIMUM
2	18	24	36
3	18	24	36
4	18	24	36
6	21	24	36
8	24	24	36
12	28	28	40

- NOTES:**
- BEDDING REQUIRED IN RIGHT-OF-WAYS, DRIVEWAYS, PARKING LOTS, PAVED AREAS, AND NON-PAVED AREAS.
 - BEDDING FOR RIGID PIPE SHALL BE NATIVE MATERIAL UNLESS JUDGED UNSUITABLE BY THE DISTRICT AND PERMITTING AGENCY.
 - TRENCH BACKFILL, BEDDING AND MATERIAL TO CONFORM TO PERMITTING AGENCY SPECIFICATIONS AND DISTRICT STANDARDS.

TYPICAL TRENCH DETAIL (OUTSIDE ROADWAY)

REVISION DATE: MAY 17, 2011 | SCALE: NTS | DISTRICT APPROVAL: Gregory G. Hill P.E. | DATE APPROVED: APRIL 18, 2023
 FILE NAME: S-29.DWG | DWG. NO.: S-29



DATE APPROVED: 25.07.17	DESIGN: VMN	CHECKED: FSS	JOB NO.: 9231000007
PRINCIPAL APPROVAL: GZ	DRAWN: CJC		

WSP
 18300 REDMOND WAY, SUITE 200
 REDMOND, WA 98052
 (+1) (425) 883.0777 / WSP.COM
 DES.FLD.BK. NO. PG.
 C.SI.FLD.BK. NO. PG.

SOOS CREEK WATER & SEWER DISTRICT
 LANDSBURG MINE SITE - MTCA REMEDIAL ACTION
 KING COUNTY, WASHINGTON
 DISCHARGE PIPE CONNECTION TO SEWER SYSTEM
 STANDARD DETAILS

BASE MAP	
SHEET	8 OF 8
DRAWING	060

**PLAN REVIEW 04-1488
 BASIN MAP P-21**