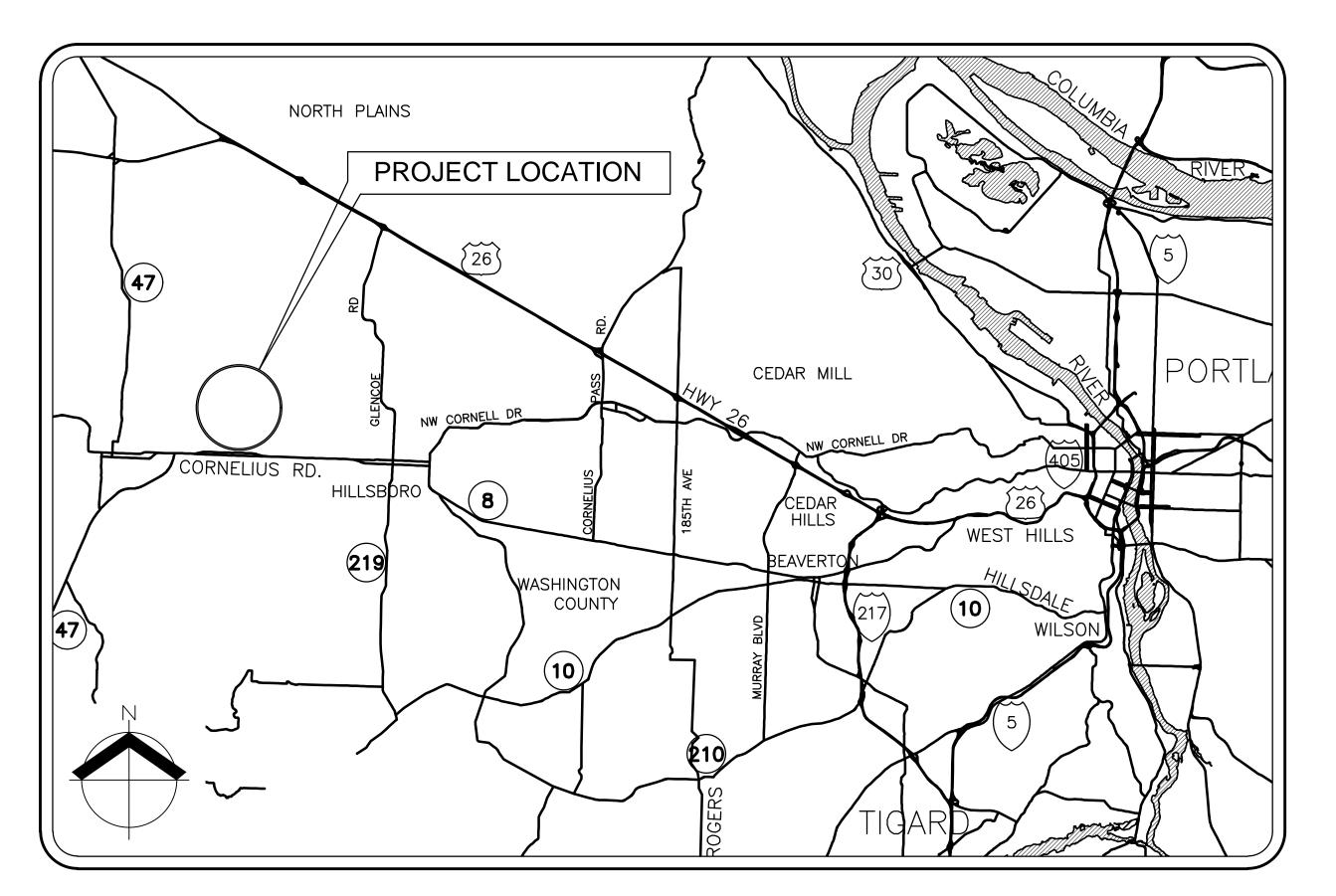
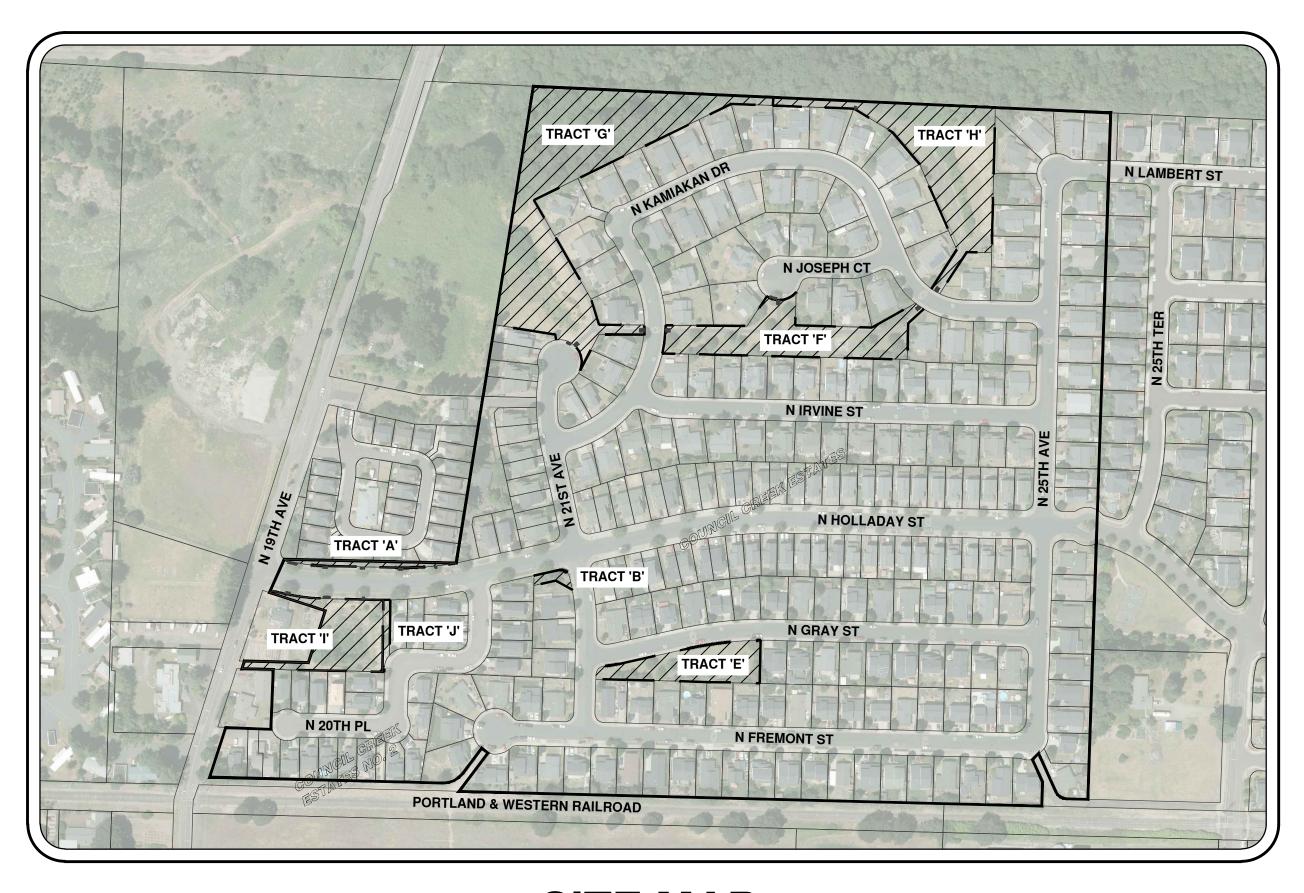
# COUNCIL CREEK LID PROJECT

## CIVIL ENGINEERING CONSTRUCTION PLANS





## SITE MAP

SCALE: 1" = 200'

## VICINITY MAP

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## **PROJECT CONTACTS**

#### **POWER**

PORTLAND GENERAL ELECTRIC 2079 PROGRESS WAY WOODBURN OR, 97071 503-464-7777

## SANITARY SEWER CITY OF CORNELIUS, OREGON

1300 S KODIAK CIRCLE
CORNELIUS, OREGON 97113
PHONE: 503.357.3011

#### **OWNER**

CITY OF CORNELIUS, OREGON CONTACT: MARK CROWELL PUBLIC WORKS DIRECTOR 1300 S KODIAK CIRCLE CORNELIUS, OREGON 97113 PHONE: 503.357.3011

#### **COMMUNICATION**

COMCAST CABLE 4025 NIMBUS LOOP MCMINNVILLE OR, 97128 800-934-6489

FRONTIER COMMUNICATIONS 115 N 20TH AVE CORNELIUS OR, 97113 877-462-8188

# STREETS/ STORMWATER WATER SERVICE/

CITY OF CORNELIUS, OREGON 1300 S KODIAK CIRCLE CORNELIUS, OREGON 97113 PHONE: 503.357.3011

#### **VERTICAL DATUM:**

NO TOPOGRAPHIC SURVEY WAS COMPILED FOR THIS PROJECT

#### **ENGINEERING/SURVEYING FIRM**

AKS ENGINEERING & FORESTRY, LLC CONTACT: JASON WUERTZ, P.E. 12965 SW HERMAN ROAD, SUITE 100 TUALATIN, OR 97062 PH: (503) 563-6151 FAX: (503) 563-6152

#### **ATTENTION EXCAVATORS:**

OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THESE RULES FROM THE CENTER BY CALLING 503-232-1987. IF YOU HAVE ANY QUESTIONS ABOUT THE RULES, YOU MAY CONTACT THE CENTER. YOU MUST NOTIFY THE CENTER AT LEAST TWO BUSINESS DAYS BUT NOT MORE THAN TEN BUSINESS DAYS, BEFORE COMMENCING AN EXCAVATION. CALL 503-246-6699.



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OR 97062
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COVER SHEET WITH VICINITY AND SITE MAP

DRAWN BY:

MANAGED BY:

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DATE: 05/06/2020

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RENEWAL DATE: 06/30/2020

REVISIONS

JOB NUMBER 6319-04

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### **GENERAL**

- CONTRACTOR SHALL ADHERE TO THE 2018 EDITION OF THE OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION, EXCEPT AS MODIFIED BY SPECIAL PROVISIONS PREPARED FOR THIS PROJECT. ACCEPTANCE BY THE CITY OF MATERIALS, CONSTRUCTION PROCEDURES, AND TESTING REQUIREMENTS ARE MANDATED FOR THIS PROJECT.
- CONTRACTOR SHALL SCHEDULE CONSTRUCTION IN A MANNER THAT ALLOWS THE CITY TIME TO WITNESS THE REQUIRED TESTING. CONTRACTOR SHALL NOTIFY THE CITY 48 HOURS PRIOR TO TESTING. CONTRACTOR MUST PROVIDE IN WRITING, PRIOR TO CONSTRUCTION, THE PROPER MATERIAL CERTIFICATIONS. THE CONTRACTOR SHALL PAY AN INDEPENDENT TESTING LABORATORY FOR DENSITY AND COMPACTION TESTING. REQUIRED AIR TESTING, MANDREL TESTING, TELEVISION INSPECTION, AND VACUUM TESTING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (800) 332-2344.
- CONTRACTOR TO NOTIFY CITY, COUNTY, ODOT AND ALL UTILITY COMPANIES A MINIMUM OF 48 BUSINESS HOURS PRIOR TO START OF CONSTRUCTION, AND COMPLY WITH ALL OTHER NOTIFICATION REQUIREMENTS OF AGENCIES WITH JURISDICTION OVER THE WORK.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DOCUMENTS AND PLANS ASSOCIATED WITH THE PROJECT WORK SCOPE PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS/PLANS RELATIVE TO THE SPECIFICATIONS OR THE APPLICABLE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER'S REPRESENTATIVE IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE OWNER'S REPRESENTATIVE SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF WORK AS DEFINED BY THE DOCUMENTS/PLANS IN FULL COMPLIANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS AND CODES.
- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE APPROVED PLANS AND THE APPLICABLE PROVISIONS OF THE MOST RECENT EDITION OF THE CITY OF CORNELIUS PUBLIC WORKS STANDARDS, CLEANWATER SERVICES DESIGN AND CONSTRUCTION STANDARDS, UNIFORM PLUMBING CODE (OPSC), INTERNATIONAL BUILDING CODE (IBC), APWA STANDARDS, OREGON HEALTH DIVISION (OHD), AND THE DEPARTMENT OF ENVIRONMENTAL QUALITY (DEQ) WHEREIN EACH HAS JURISDICTION.
- CONTRACTOR SHALL AT ALL TIMES ABIDE BY APPLICABLE SAFETY RULES OF OSHA, IN PARTICULAR THOSE REGULATIONS PERTAINING TO ADEQUATE SHORING AND TRENCH PROTECTION FOR WORKMEN.
- ). CONSTRUCTION OF ALL PUBLIC FACILITIES SHALL BE DONE WITHIN THE HOURS PERMITTED BY THE GOVERNING JURISDICTION.
- THE CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DRAWINGS INCLUDING SUCH INCIDENTALS AS MAY BE NECESSARY TO MEET APPLICABLE AGENCY REQUIREMENTS AND PROVIDE A COMPLETED PROJECT.
- MAINTENANCE OF THE WORK AREA AND APPROACH ROADS IS THE RESPONSIBILITY OF THE PERMIT HOLDER. THE WORK AREA AND APPROACH ROADS SHALL BE MAINTAINED IN A CLEAN CONDITION, FREE FROM OBSTRUCTIONS AND HAZARDS. A COPY OF THE PERMIT HOLDERS CERTIFICATE OF INSURANCE SHALL BE AVAILABLE AT THE WORK AREA.
- . ANY INSPECTION BY THE CITY, COUNTY, AKS, OWNER'S REPRESENTATIVE, OR OTHER AGENCIES SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN STRICT COMPLIANCE WITH THE CONTRACT DOCUMENTS, APPLICABLE CODES, AND AGENCY REQUIREMENTS.
- . IF THE CONTRACTOR DEVIATES FROM THE APPROVED PLANS, INCLUDING THESE NOTES, WITHOUT FIRST OBTAINING THE PRIOR WRITTEN AUTHORIZATION OF THE ENGINEER FOR SUCH DEVIATIONS, CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE PAYMENT OF ALL COSTS INCURRED IN CORRECTING ANY WORK DONE WHICH DEVIATES FROM
- THE ENGINEER HAS NOT BEEN RETAINED OR COMPENSATED TO PROVIDE DESIGN AND CONSTRUCTION REVIEW SERVICES RELATING TO THE CONTRACTOR'S SAFETY PRECAUTIONS OR TO MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED FOR THE CONTRACTOR TO PERFORM THEIR WORK.
- CONTRACTOR SHALL MAINTAIN ONE (1) COMPLETE SET OF APPROVED PLANS ON THE CONSTRUCTION SITE AT ALL TIMES WHEREON THEY WILL RECORD ALL APPROVED DEVIATIONS IN CONSTRUCTION FROM THE APPROVED DRAWINGS, AS WELL AS LOCATIONS AND DEPTHS OF ALL EXISTING UTILITIES ENCOUNTERED. THESE FIELD RECORD DRAWINGS SHALL BE KEPT UP TO DATE AT ALL TIMES AND SHALL BE AVAILABLE FOR INSPECTION BY THE CITY OR OWNER'S REPRESENTATIVE UPON REQUEST.
- 17. CONTRACTOR SHALL INSTALL AND MAINTAIN ALL REQUIRED EROSION CONTROL MEASURES IN ACCORDANCE WITH THE CURRENT EDITION OF THE CLEANWATER WATER SERVICES "EROSION PREVENTION AND SEDIMENT CONTROL" TECHNICAL GUIDANCE HANDBOOK. COORDINATE EROSION CONTROL MEASURES WITH THE CITY OF CORNELIUS INSPECTOR.
- 3. EFFECTIVE DRAINAGE CONTROL IS REQUIRED. DRAINAGE SHALL BE CONTROLLED WITHIN THE WORK SITE AND SHALL BE SO ROUTED THAT ADJACENT PRIVATE PROPERTY, PUBLIC PROPERTY AND THE RECEIVING SYSTEM IS NOT ADVERSELY IMPACTED. THE CITY AND CWS MAY AT ANY TIME ORDER CORRECTIVE ACTION AND STOPPAGE OF WORK TO ACCOMPLISH EFFECTIVE DRAINAGE CONTROL.
- 19. NO STOCKPILING OF MATERIALS AND/OR STORAGE OF EQUIPMENT IN THE RIGHT-OF-WAY SHALL BE PERMITTED.
- 20. ALL DAMAGE CAUSED BY CONTRACTOR SHALL BE RESTORED TO AN 'AS GOOD OR BETTER' CONDITION.
- 21. ALL LANDSCAPING AND/OR SOD SHALL BE REPLACED TO AN 'AS GOOD OR BETTER' CONDITION.
- 22. UPON COMPLETION OF CONSTRUCTION OF ALL NEW FACILITIES, CONTRACTOR SHALL SUBMIT A CLEAN SET OF FIELD RECORD DRAWINGS CONTAINING ALL AS-BUILT INFORMATION TO THE OWNER'S REPRESENTATIVE. ALL INFORMATION SHOWN ON THE CONTRACTOR'S FIELD RECORD DRAWINGS SHALL BE SUBJECT TO VERIFICATION. IF SIGNIFICANT ERRORS OR DEVIATIONS ARE NOTED, AN AS-BUILT SURVEY PREPARED AND STAMPED BY A REGISTERED PROFESSIONAL LAND SURVEYOR SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE.
- 23. PRIOR TO FINAL ACCEPTANCE AND PAYMENT, THE CONTRACTOR SHALL CLEAN THE PROJECT SITE AND ADJACENT AREAS OF ANY DEBRIS, DISCARDED MATERIAL, OR OTHER ITEMS DEPOSITED BY THE CONTRACTOR'S PERSONNEL DURING THE PERFORMANCE OF THE WORK.
- 24. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL REQUIRED OR NECESSARY INSPECTIONS ARE COMPLETED BY AUTHORIZED INSPECTORS PRIOR TO PROCEEDING WITH SUBSEQUENT WORK WHICH COVERS OR THAT IS DEPENDENT ON THE WORK TO BE INSPECTED. FAILURE TO OBTAIN NECESSARY INSPECTION(S) AND APPROVAL(S) SHALL RESULT IN THE CONTRACTOR BEING FULLY RESPONSIBLE FOR ALL PROBLEMS ARISING FROM UNINSPECTED
- 25. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY INSPECTIONS OR NECESSARY OBSERVATIONS FOR ALL WORK PERFORMED INCLUDING ANY RE-TESTING THAT MAY BE REQUIRED TO MEET SPECIFICATION. THE CONTRACTOR SHALL PERFORM PRE-TESTS PRIOR TO SCHEDULING TESTS THAT MUST BE WITNESSED. TESTING MUST BE PERFORMED BY AN APPROVED THIRD PARTY INDEPENDENT TESTING LABORATORY RETAINED BY THE CONTRACTOR. CONTRACTOR IS SOLELY RESPONSIBLE FOR SCHEDULING TESTING. ALL TESTING MUST BE COMPLETED PRIOR TO PERFORMING SUBSEQUENT WORK. A COPY OF ALL TESTING RESULTS MUST BE PROVIDED TO THE OWNER'S REPRESENTATIVE IMMEDIATELY UPON COMPLETION OF THE TEST.
- 16. ALL TESTING FOR THE PROJECT WILL BE PERFORMED IN ACCORDANCE WITH THE LATEST CITY OF CORNELIUS AND CLEANWATER SERVICES DESIGN AND CONSTRUCTION STANDARDS.
- 77. IN ADDITION TO IN-PLACE DENSITY TESTING, THE SUBGRADE AND BASEROCK SHALL BE PROOF-ROLLED WITH A LOADED 10-YARD DUMP TRUCK PROVIDED BY THE CONTRACTOR. BASEROCK PROOF-ROLL SHALL TAKE PLACE IMMEDIATELY PRIOR TO (WITHIN 24 HOURS OF) PAVING, AND SHALL BE WITNESSED BY THE OWNER'S REPRESENTATIVE. LOCATION AND PATTERN OF PROOF-ROLL TO BE AS DIRECTED BY OWNER'S REPRESENTATIVE OR APPROVING AGENCY.
- 8. ALL ENGINEERED FILLS REQUIRE AN APPROVED INDEPENDENT TESTING LABORATORY RETAINED BY THE CONTRACTOR, TO PROVIDE WRITTEN CERTIFICATION STAMPED BY AN OREGON REGISTERED PROFESSIONAL ENGINEER STATING THAT THE SUBGRADE WAS PREPARED AND ALL ENGINEERED FILLS WERE PLACED IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS AND CONTRACT DOCUMENTS.
- 29. THE LOCATION AND DESCRIPTIONS OF EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE COMPILED FROM AVAILABLE

- RECORDS. WE DO NOT GUARANTEE THE ACCURACY OR THE COMPLETENESS OF SUCH RECORDS. ADDITIONAL UTILITIES MAY EXIST WITHIN THE WORK AREA. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND SIZES OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- 30. ANY UTILITIES LOCATED IN THE FIELD THAT THE CONTRACTOR DISRUPTS OR DAMAGES SHALL BE PROMPTLY REPAIRED TO NEW CONDITION. IF REQUIRED, CONTRACTOR SHALL INSTALL SUITABLE TEMPORARY SERVICE UNTIL REPAIR CAN BE COMPLETED. THE COST OF THE REPAIR OR TEMPORARY SERVICE SHALL BE BORNE BY THE CONTRACTOR.
- 31. NOTIFY THE OWNER AND OWNER'S REPRESENTATIVE IMMEDIATELY OF ALL UTILITIES EXPOSED. UNIDENTIFIED UTILITIES SHALL NOT BE DISRUPTED OR CUT UNTIL OWNER OR OWNER'S REPRESENTATIVE HAS APPROVED THE CUT OR DISRUPTION.
- 32. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND MARKING ALL EXISTING SURVEY MONUMENTS OF RECORD (INCLUDING BUT NOT LIMITED TO PROPERTY AND STREET MONUMENTS) PRIOR TO CONSTRUCTION. IF ANY SURVEY MONUMENTS ARE REMOVED, DISTURBED OR DESTROYED DURING CONSTRUCTION OF THE PROJECT, THE CONTRACTOR SHALL RETAIN AND PAY FOR THE SERVICES OF A REGISTERED PROFESSIONAL SURVEYOR LICENSED IN THE STATE OF OREGON TO REFERENCE AND REPLACE ALL SUCH MONUMENTS PRIOR TO SUBSTANTIAL COMPLETION OF THE PROJECT. THE MONUMENTS SHALL BE REPLACED WITHIN A MAXIMUM OF 90 DAYS, AND THE COUNTY SURVEYOR SHALL BE NOTIFIED IN WRITING AS REQUIRED BY PER ORS 209.150.
- 33. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES WHERE NEW FACILITIES CROSS. ALL UTILITY CROSSINGS SHOWN ON THE DRAWINGS SHALL BE POTHOLED USING HAND TOOLS OR OTHER NON-INVASIVE METHODS PRIOR TO EXCAVATING OR BORING. CONTRACTOR SHALL BE RESPONSIBLE FOR EXPOSING POTENTIAL UTILITY CONFLICTS FAR ENOUGH AHEAD OF CONSTRUCTION TO MAKE NECESSARY GRADE OR ALIGNMENT MODIFICATIONS WITHOUT DELAYING THE WORK. IF GRADE OR ALIGNMENT MODIFICATION IS NECESSARY, CONTRACTOR SHALL NOTIFY THE ENGINEER, AND THE ENGINEER OR THE OWNER'S REPRESENTATIVE SHALL OBTAIN APPROVAL FROM THE CITY PRIOR TO CONSTRUCTION.
- 34. ALL FACILITIES SHALL BE MAINTAINED IN-PLACE BY THE CONTRACTOR UNLESS OTHERWISE SHOWN OR DIRECTED CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO SUPPORT, MAINTAIN, OR OTHERWISE PROTECT EXISTING UTILITIES AND OTHER FACILITIES AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR TO LEAVE EXISTING FACILITIES IN AN EQUAL OR BETTER-THAN-ORIGINAL CONDITION.
- 35. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MANAGING CONSTRUCTION ACTIVITIES TO ENSURE THAT PUBLIC STREETS AND RIGHT-OF-WAYS ARE KEPT CLEAN OF MUD, DUST OR DEBRIS. DUST ABATEMENT SHALL BE MAINTAINED BY ADEQUATE WATERING OF THE SITE BY THE CONTRACTOR.
- 36. CLEAR AND GRUB WITHIN WORK LIMITS ALL SURFACE VEGETATION, TREES, STUMPS, BRUSH, ROOTS, ETC. DO NOT DAMAGE OR REMOVE TREES EXCEPT AS APPROVED BY THE OWNER'S REPRESENTATIVE OR AS SHOWN ON THE DRAWINGS. PROTECT ALL ROOTS TWO INCHES IN DIAMETER OR LARGER.
- 37. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, STRAIGHT GRADES SHALL BE RUN BETWEEN ALL FINISH GRADE ELEVATIONS AND/OR FINISH CONTOUR LINES SHOWN.
- 38. ALL EXISTING OR CONSTRUCTED MANHOLES, CLEANOUTS, MONUMENT BOXES, GAS VALVES, WATER VALVES AND SIMILAR STRUCTURES SHALL BE ADJUSTED TO MATCH FINISH GRADE OF THE PAVEMENT, SIDEWALK, LANDSCAPED AREA OR MEDIAN STRIP WHEREIN THEY LIE. VERIFY THAT ALL VALVE BOXES AND RISERS ARE CLEAN AND CENTERED OVER THE OPERATING NUT.
- 39. NO CUT OR FILL SLOPES SHALL BE CONSTRUCTED STEEPER THAN 2 FT. HORIZONTAL TO 1 FT. VERTICAL (2H:1V) UNLESS OTHERWISE SHOWN ON THE DRAWINGS AND APPROVED BY THE GEOTECHNICAL ENGINEER FOR THE PROJECT.
- 40. THE CONTRACTOR IS RESPONSIBLE TO ENSURE 1.0% MINIMUM SLOPE ON ALL NEW CONCRETE AND ASPHALT SURFACES TO PREVENT PONDING. ANY DISCREPANCIES THAT MAY AFFECT ADA COMPLIANCE, PUBLIC SAFETY, OR PROJECT COST MUST BE IDENTIFIED IN WRITING TO THE OWNER'S REPRESENTATIVE IMMEDIATELY. PROCEEDING WITH CONSTRUCTION WITHOUT OWNER'S REPRESENTATIVE AUTHORIZATION AND REVIEW OF THE DISCREPANCY IS AT THE CONTRACTOR'S OWN COST RISK.
- 41. PRIOR TO INSTALLATION OF CURB, GUTTER, ADA RAMPS, OR SIDEWALK THE OWNER'S REPRESENTATIVE AND/OR CITY INSPECTOR SHALL BE CONTACTED TO INSPECT STRING LINE, BASEROCK, AND FORMWORK.

42. THE CONTRACTOR SHALL HAVE APPROPRIATE EQUIPMENT ON SITE TO PRODUCE A FIRM, SMOOTH, UNDISTURBED

FREE OF LOOSE MATERIALS OR TOOTH GROOVES FOR THE ENTIRE WIDTH OF THE TRENCH PRIOR TO PLACING THE GRANULAR BEDDING MATERIAL.

SUBGRADE AT THE TRENCH BOTTOM, TRUE TO GRADE. THE BOTTOM OF THE TRENCH EXCAVATION SHALL BE SMOOTH,

- 43. THE PROJECT ENGINEER RESERVES THE RIGHT TO ADJUST GRADES OR ALIGNMENT TO ACCOMMODATE OTHER UTILITIES AS REQUIRED.
- 44. THESE PLANS ASSUME THAT CONSTRUCTION STAKING WILL BE NECESSARY TO CONSTRUCT THE IMPROVEMENTS SHOWN AND THAT CONSTRUCTION STAKING ACTIVITIES WILL BE PERFORMED BY AKS ENGINEERING & FORESTRY LLC. AKS ENGINEERING & FORESTRY LLC. DOES NOT ACCEPT ANY RESPONSIBILITY FOR ITEMS CONSTRUCTED INCORRECTLY BASED ON MISINTERPRETATIONS OF ITEMS SHOWN ON THESE PLANS.
- 45. ALL EXCAVATED MATERIAL SHALL BE HAULED AND DISPOSED OF OFF SITE. THE CONTRACTOR IS RESPONSIBLE FOR SECURING NECESSARY PERMITS FOR DISPOSAL.
- 46. THERE WILL BE A PRE-CONSTRUCTION CONFERENCE AFTER CITY APPROVALS OF THE CONTRACT. THOSE WHO MAY ATTEND ARE: CITY, ENGINEER, AND THE CONTRACTOR.
- 47. CONTRACTOR SHALL TAKE REASONABLE EFFORT IN THE PRESERVATION OF EXISTING IMPROVEMENTS, LANDSCAPING, AND VEGETATION THROUGHOUT CONSTRUCTION.
- 48. CONSTRUCTION VEHICLES SHALL PARK AT THE LOCATION(S) DETERMINED AT THE PRE-CONSTRUCTION CONFERENCE.
- 49. THE CONTRACTOR SHALL KEEP AN APPROVED SET OF PLANS AND SPECIFICATIONS ON THE PROJECT SITE AT ALL
- 50. THE CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO COMPLETE THIS PROJECT IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS INCLUDING SUCH INCIDENTALS. AS MAY BE NECESSARY TO MEET THE INTENT OF THE PROJECT CONTRACT DOCUMENTS, APPLICABLE AGENCY REQUIREMENTS, AND OTHER WORK AS NECESSARY TO PROVIDE A COMPLETE PROJECT.
- 51. THERE SHALL BE NO ALTERATION OR VARIANCE FROM THE APPROVED PLANS WITHOUT APPROVAL OF THE CITY.
- 52. ANY INSPECTION BY THE CITY, COUNTY, STATE, FEDERAL AGENCY, OR ENGINEER SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN COMPLIANCE WITH THE APPLICABLE CODES, REGULATIONS, CITY STANDARDS, AND PROJECT CONTRACT DOCUMENTS.
- 53. THE CONTRACTOR SHALL MAINTAIN AND COORDINATE ACCESS TO ALL AFFECTED PROPERTIES.
- 54. THE CONTRACTOR SHALL ERECT AND MAINTAIN TRAFFIC CONTROL PER THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", PART IV. CONSTRUCTION AND MAINTENANCE, AS ADOPTED AND MODIFIED BY ODOT. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE CITY FOR APPROVAL PRIOR TO THE START OF WORK.
- 55. PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL PROVIDE THE FOLLOWING ITEMS: LIST OF SUBCONTRACTORS PROJECT SCHEDULE TRAFFIC CONTROL PLAN EMERGENCY CONTACT NAME AND PHONE NUMBER SUBMITTALS AS REQUIRED
- 56. PRIOR TO ORDERING ANY MATERIALS, THE CONTRACTOR SHALL PROVIDE MANUFACTURER'S SPECIFICATION SHEETS FOR ALL MATERIALS TO BE USED TO THE CITY.
- 57. THE CONTRACTOR SHALL ENSURE THEY HAVE ALL REQUIRED PERMITS AND LICENSES BEFORE STARTING CONSTRUCTION.
- 58. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT "CLEAN AS-BUILT DRAWINGS" TO THE ENGINEER. "CLEAN AS-BUILT DRAWINGS" DOCUMENT ALL DEVIATIONS AND REVISIONS TO THE APPROVED PLANS; THEY SHALL ALSO RECORD A DESCRIPTION OF CONSTRUCTION MATERIALS ACTUALLY USED (PIPE MATERIAL, ETC.).

- 59. PRIOR TO FINAL ACCEPTANCE AND PAYMENT. THE CONTRACTOR SHALL CLEAN THE WORK SITE AND ADJACENT AREAS OF ANY DEBRIS, DISCARDED ASPHALTIC CONCRETE MATERIAL, OR OTHER ITEMS DEPOSITED DURING THE PROJECT.
- 60. WORK PROVIDED FOR UNDER THE PERMIT SHALL INCLUDE REPAIR OF EXISTING FACILITIES (ROADS, DITCHES, ETC.) AS MAY BE NECESSARY, IN THE PROJECT ENGINEER'S OPINION, TO OVERCOME DETERIORATION OR DAMAGE WHICH OCCURRED IN CONJUNCTION WITH THE WORK AUTHORIZED BY THE PERMIT. CORRECTIVE WORK SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.
- 61. PROPERTY DISTURBED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED TO EXISTING OR BETTER CONDITION. GRASS, SHRUBS, PAVEMENT, ETC. DISTURBED BY CONSTRUCTION ACTIVITY SHALL BE RE-ESTABLISHED, REINSTALLED, OR REPLACED, WITH LIKE KIND AND MATERIAL TO EXISTING OR BETTER CONDITION.

### SURFACING CONSTRUCTION NOTES

- 62. ALL STREET WORK AND MATERIALS SHALL CONFORM WITH THESE PLANS AND THE APPLICABLE REQUIREMENTS OF THE CITY OF CORNELIUS PUBLIC WORKS STANDARDS (MARCH 2017) AND ALL APPLICABLE SECTIONS OF THE ODOT/APWA STANDARDS FOR CONSTRUCTION, 2018 EDITION.
- 63. ASPHALT TO BE COMPACTED TO 92% OF RICE DENSITY PER AASHTO T-209 (ASTM D2041). BASE ROCK SHALL BE COMPACTED TO 95% OF MODIFIED PROCTER PER ASTM D1557 (AASHTO T-180). SUBGRADE SHALL BE APPROVED NATIVE OR BE COMPACTED TO 95% OF STANDARD PROCTOR ASTM D698 (AASHTO T-99).
- 64. CYLINDER TESTS SHALL BE PROVIDED FOR CONCRETE CURB AND GUTTER, SIDEWALK, DRIVEWAYS, ETC. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI IN 28 DAYS, 2" TO 4" SLUMP.
- 65. NUMBER AND LOCATION OF COMPACTION TESTS SHALL BE DETERMINED BY THE PROJECT ENGINEER.
- 66. SAWCUT STRAIGHT LINES TO MEET EXISTING PAVEMENT WITH NEW PAVEMENT. SAND AND SEAL JOINTS.
- 67. THE CONTRACTOR SHALL KEEP RECORDS OF ALL CONSTRUCTION THAT DIFFERS FROM THE APPROVED PLANS AND SHALL MAINTAIN "RECORD DRAWINGS" DURING THE CONSTRUCTION PERIOD. "RECORD DRAWINGS" SHALL BE SUBMITTED TO THE PROJECT ENGINEER AT THE END OF THE PROJECT.
- 68. CONTRACTOR SHALL CONTACT PROJECT ENGINEER, SURVEYOR AND CITY AFTER STRING LINE IS IN PLACE AND BEFORE CURB IS POURED TO CHECK CURB GRADE.
- 69. FINISH PAVEMENT GRADES AT TRANSITION TO EXISTING PAVEMENT SHALL MATCH EXISTING PAVEMENT GRADES OR BE FEATHERED PAST JOINTS WITH EXISTING PAVEMENT AS REQUIRED TO PROVIDE A SMOOTH, FREE DRAINING SURFACE.

#### **ENVIRONMENTAL & EROSION CONTROL:**

- 70. THE CONTRACTOR SHALL PROVIDE EFFECTIVE EROSION PROTECTION TO INCLUDE, BUT NOT LIMITED TO HAY BALES, SEDIMENT BARRIERS, AND INLET PROTECTION TO MINIMIZE EROSION IMPACT TO ADJACENT PROPERTIES AND THE STORM DRAIN SYSTEM.
- 71. EFFECTIVE DRAINAGE CONTROL IS REQUIRED.
- 72. IF GROUND WATER SPRINGS ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE PROJECT ENGINEER. THE PROJECT ENGINEER SHALL DIRECT THE CONTRACTOR TO TAKE MEASURES TO ENSURE THAT THE WATER IS NOT CONVEYED THROUGH UTILITY TRENCHES AND THE NATURAL FLOW PATH OF THE SPRING IS ALTERED AS LITTLE AS PRACTICABLE.

- 73. CONTRACTOR SHALL FOLLOW OSHA REQUIREMENTS
- 74. ALL TRENCHES SHALL BE PROPERLY SHORED AND BRACED TO PREVENT CAVING.
- 75. NO TRENCH SHALL BE LEFT AT ANY TIME IN AN UNSAFE CONDITION. THE CONTRACTOR IS RESPONSIBLE AND LIABLE FOR HAZARDS OR DAMAGE RESULTING FROM THE PROSECUTION OF THE WORK.
- 76. NO TRENCHES WILL BE ALLOWED TO REMAIN OPEN OVERNIGHT. ALL TRENCHES SHALL BE COVERED WITH STEEL PLATES OR BACK FILLED AT THE END OF EACH SHIFT.

#### **STREETS:**

- 77. THE SPREADING OF MUD OR DEBRIS OR STORAGE OF MATERIAL OR EQUIPMENT OF ANY KIND UPON ANY ROADWAY WITHOUT CITY PERMISSION IS STRICTLY PROHIBITED.
- 78. ALL EXISTING ASPHALT AT MATCH POINTS SHALL BE SAW CUT TO CLEAN LINES & GRADES. FINAL LOCATION SHALL BE APPROVED BY CITY.
- 79. THE CONTRACTOR SHALL VACUUM SAW CUT SLURRY AS SAW CUTTING IS BEING PERFORMED.
- 80. SAW CUT STRAIGHT MATCH LINES WHERE EXISTING PAVEMENT MEETS NEW PAVEMENT. SAND AND SEAL JOINT IMMEDIATELY FOLLOWING PAVING (TYPICAL). SAW CUT LINES SHOWN REPRESENT APPROXIMATE FINAL LOCATION PRIOR TO AC PAVEMENT PATCHING. FINAL SAWCUT LOCATIONS SHALL BE APPROVED BY THE CITY PRIOR TO FINAL SAW
- 81. STREET CONSTRUCTION REQUIRES MOISTURE-DENSITY TESTING OF THE SUBGRADE MATERIAL AND BASE ROCK. ASPHALT PAVEMENT SHALL BE TESTED FOR ACCEPTABLE COMPACTION. SPECIFIC DATA SHALL BE PROVIDED BY CONTRACTOR PRIOR TO CONSTRUCTION, INCLUDING BUT NOT LIMITED TO: 1) PROCTORS FOR IN PLACE MATERIALS AND 2) DATA ON TRENCH AND BASE ROCK. ASPHALT CONCRETE MUST BE A CURRENT MIX DESIGN, APPROVED BY THE CITY ENGINEER. REFER TO 00330.43, 00641.12, 00641.15, 00641.44, 00745.13, AND 00745.49 OF THE STANDARD SPECIFICATIONS.
- 82. THE PROJECT ENGINEER AND CITY RESERVE THE RIGHT TO ADJUST GRADES OR ALIGNMENT TO ACCOMMODATE OTHER UTILITIES AS REQUIRED.
- 83. ALL CONCRETE SHALL HAVE A 28-DAY ULTIMATE COMPRESSIVE STRENGTH OF 3,300 PSI.

#### STORMWATER FACILITY VEGETATION REMOVAL AND CLEANUP:

- 84. PROJECT HAS NOT BEEN SURVEYED. PHOTO AND SITE DATA AS SHOWN HAVE NOT BEEN FIELD VERIFIED. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH SITE CONDITIONS PRIOR TO BEGINNING
- 85. PESTICIDE USE SHALL BE LIMITED WHERE FEASIBLE FOR THE CONTROL OF NON-NATIVE, INVASIVE SPECIES. WHERE POSSIBLE. MECHANICAL REMOVAL IS PREFERRED.
  - 85.1. PESTICIDE APPLICATORS MUST BE LICENSED AS REQUIRED BY THE OREGON DEPARTMENT OF AGRICULTURE'S PESTICIDE LICENSING IN OREGON AND HAVE A COMMERCIAL OPERATOR LICENSE AND THE APPROPRIATE COMMERCIAL APPLICATOR OR TRAINEE LICENSES FOR EACH APPLICATOR. CONTRACTOR SHALL CONFORM TO FEDERAL WORKER PROTECTION STANDARDS (WPS), INCLUDING THE USE OF PERSONAL PROTECTIVE EQUIPMENT AND RESTRICTIONS ON ENTRY TO TREATED AREAS. PERSONNEL WHO HAVE ANY CONTACT WITH PESTICIDES SHALL FOLLOW ALL PERSONAL PROTECTIVE EQUIPMENT REQUIREMENTS.
  - 85.2. ONLY PESTICIDES APPROVED FOR USE BY CLEAN WATER SERVICES SHALL BE PERMITTED. USE SPOT OR AREA APPLICATION ABOVE THE WATER LINE WHEN SUCH A LINE IS APPARENT OR AT A TIME WHEN THE FACILITY IS DRY AND RAINFALL IS NOT ANTICIPATED TO MOVE PESTICIDE BEFORE IT IS INERT ACCORDING TO LABEL RECOMMENDATIONS. PRE-EMERGENT PESTICIDES SHALL NOT BE ALLOWED IN STORMWATER FACILITIES.
  - 85.3. CONTRACTOR SHALL NOTIFY THE PUBLIC OF PESTICIDE APPLICATION BY POSTING APPROVED SIGNS IN CLEARLY VISIBLE LOCATIONS NEAR THE TREATED AREA. THE SIGNS MUST INCLUDE THE NAME OF THE

- PESTICIDE(S) APPLIED AND A PHONE NUMBER FOR ADDITIONAL INFORMATION. SIGNS MAY BE REMOVED AFTER THE RE-ENTRY REQUIREMENTS ON THE LABEL HAVE BEEN MET. IF THE LABEL DOES NOT SPECIFY A RE-ENTRY INTERVAL, APPLICATORS MAY REMOVE THE SIGNS AFTER THE LIQUID PESTICIDE HAS DRIED. 85.4. PESTICIDES SHOULD BE APPLIED BY DIRECTED, LOW VOLUME, SINGLE WAND SPRAYERS, WPING, DAUBING,
- 85.5.PESTICIDES OR PESTICIDE CONTAINERS SHALL BE KEPT IN SECURE AND SAFE LOCATIONS AND SAFEGUARDED FROM VANDALISM OR ENVIRONMENTAL DAMAGE (FREEZING, VAPORIZING,
- 85.6. CONTRACTOR SHALL MAINTAIN WRITTEN RECORD OF PESTICIDE APPLICATION AS REQUIRED BY STATE LAW. 85.7. CONTRACTOR SHALL LEGALLY DISPOSE OF ANY EMPTY CONTAINERS AND UNUSABLE PESTICIDE IN ACCORDANCE WITH STATE AND FEDERAL REQUIREMENTS (INCLUDING THE OREGON STATE DEPARTMENT OF AGRICULTURE, DEQ, ENVIRONMENTAL PROTECTION AGENCY, AND STATE AND FEDERAL OSHA PROGRAMS) AND LABEL RECOMMENDATIONS.
- 86. CONTRACTOR SHALL MAKE EVERY EFFORT TO MINIMIZE DISTURBANCE TO EXISTING GROUND SURFACE. INVASIVE PLANT REMOVAL AND NEW PLANTING ACTIVITIES SHALL NOT ALTER SITE DRAINAGE PATTERNS OR CAUSE DISPLACEMENT OF SOILS WHICH MAY LEAD TO EROSION. PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS AND OTHER FACILITIES. REPAIR AND MAKE GOOD ANY DAMAGE TO SERVICE LINES OR IMPROVEMENTS CAUSED BY PLANTING OPERATIONS AT NOT ADDITIONAL COST TO THE CITY.
- 87. PROTECT ALL WORK AREAS AND PLANTS AGAINST TRESPASSING AND DAMAGE AT ALL TIMES UNTIL DATE OF FINAL ACCEPTANCE TO THE GREATEST EXTENT PRACTICABLE.

#### **EROSION CONTROL:**

- 88. WHEN RAINFALL AND RUNOFF OCCURS, A KNOWLEDGEABLE AND EXPERIENCED PERSON IN THE PRINCIPLES, PRACTICES, INSTALLATION, AND MAINTENANCE OF EROSION AND SEDIMENT CONTROLS WHO WORKS FOR THE
- 89. CONSTRUCTION ACTIVITIES MUST AVOID OR MINIMIZE EXCAVATION AND CREATION OF BARE GROUND FROM OCTOBER
- 90. DURING WET WEATHER PERIOD, TEMPORARY STABILIZATION OF THE SITE MUST OCCUR AT THE END OF EACH WORK
- 91. 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.
- 92. ALL ACTIVE INLETS MUST HAVE SEDIMENT CONTROLS INSTALLED AND MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
- 93. SIGNIFICANT AMOUNTS OF SEDIMENT THAT 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 PREFORMED ACCORDING TO THE OREGON DEPARTMENT OF STATE

- 96. CLEANING OF ALL STRUCTURES WITH SUMPS MUST OCCUR WHEN THE SEDIMENT RETENTION CAPACITY HAS BEEN REDUCED BY 50% AND AT COMPLETION OF PROJECT.
- 98. 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.
- 99. THE APPLICATION RATE OF FERTILIZERS USED TO REESTABLISH VEGETATION MUST FOLLOW MANUFACTURER'S FERTILIZERS SHOULD BE USED AND CARE SHOULD BE MADE IN APPLICATION OF FERTILIZERS WITHIN ANY WATER WAY
- 100. 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.
- 101. 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.
- 102. 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.
- AND PERCENTAGES OF SEED IN THE MIX ARE AS IDENTIFIED ON THE PLANS OR AS SPECIFIED BY THE DESIGN
- MUST BE DRAINED SUFFICIENTLY FOR MINIMAL SPILLAGE.
- 106. 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
- 107. 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
- 108. WRITTEN ESC LOGS ARE SUGGESTED TO BE MAINTAINED ONSITE AND AVAILABLE TO DISTRICT INSPECTORS UPON
- 109. 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.
- 110. ALL EXPOSED SOILS MUST BE COVERED, AT END OF BUSINESS DAY, DURING WET WEATHER PERIOD, FROM OCTOBER
- DOWNSTREAM DRAINAGE FACILITIES.

AND PAINTING EQUIPMENT, OR INJECTION SYSTEMS. CONTROL NOZZLE SIZE. PRESSURE, AND DROPLET SIZE

PHOTODECOMPOSITION, MOISTURE, ETC.). CONTRACTOR SHALL NOT STORE PESTICIDES ON SITE OVERNIGHT UNLESS APPROVED BY THE CITY.

RIPARIAN ZONE.

- PERMITTEE MUST PROVIDE DAILY INSPECTIONS OF THE EROSION AND SEDIMENT CONTROLS AND DISCHARGE OUTFALLS.
- THROUGH MAY 31ST EACH YEAR.

- LANDS REQUIRED TIME FRAME.
- 94. SEDIMENT MUST NOT BE INTENTIONALLY WASHED INTO STORM SEWERS, DRAINAGE WAYS, OR WATER BODIES.
- 95. SEDIMENT MUST BE REMOVED FROM BEHIND ALL SEDIMENT CONTROL MEASURES WHEN IT HAS REACHED A HEIGHT OF 1/3-RD THE BARRIER HEIGHT AND PRIOR TO THE CONTROL MEASURES REMOVAL.
- 97. ANY USE OF TOXIC OR OTHER HAZARDOUS MATERIALS MUST INCLUDE PROPER STORAGE, APPLICATION, AND DISPOSAL.
- RECOMMENDATIONS. NUTRIENT RELEASES FROM FERTILIZERS TO SURFACE WATERS MUST BE MINIMIZED. TIME RELEASE

- 103. IF VEGETATIVE SEED MIXES ARE SPECIFIED, SEEDING MUST TAKE PLACE NO LATER THAN SEPTEMBER 1ST; THE TYPE
- 104. WATERTIGHT 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
- 105. 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).
- WITH ALL REGULATIONS.
- 111. CONTRACTOR SHALL USE EROSION CONTROL MEASURES AS REQUIRED TO PREVENT SEDIMENT FROM ENTERING

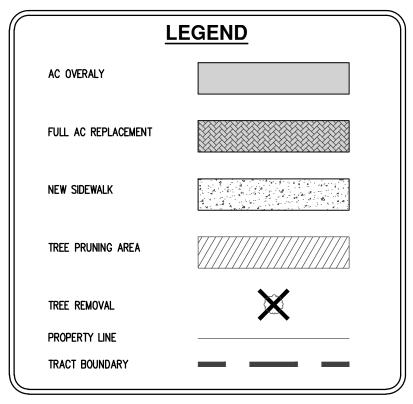
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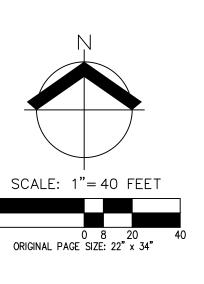
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SHEET



#### # KEYED NOTES:

- 1. REMOVE AND REPLACE SIDEWALK PANELS AS MARKED IN FIELD BY CITY PER DETAILS CITY OF CORNELIUS STANDARD DETAIL S-2 & S-25 PROTECT EXISTING ADJACENT CURB AND SIDEWALK PANELS NOT MARKED FOR REMOVAL
- 2. REMOVE EXISTING TREE(S), GRIND STUMP(S) (TYP)
- REMOVE EXISTING WALNUT TREE AS DIRECTED IN FIELD BY CITY, CUT STUMP FLUSH WITH EXISTING GROUND (NOT USED)
- 4. PRUNE TREES AS REQUIRED FOR CONSTRUCTION UNDER DIRECTION OF THE CITY
- 5. REMOVE EXISTING BOLLARDS
- 6. INSTALL TWO (2) REMOVABLE BOLLARDS PER CITY OF CORNELIUS STANDARD DETAIL S-51. EXACT LOCATION TO BE STAKED BY CITY
- REMOVE 10' OF EXISTING AC PATH
  INSTALL NEW AC PATH AND CONNECT TO EXISTING SIDEWALK
  SEE AC PATH TAPER/REPLACEMENT SECTION
- 8. REMOVE 15' OF EXISTING AC PATH INSTALL NEW AC PATH AND CONNECT TO EXISTING SIDEWALK SEE AC PATH TAPER/REPLACEMENT SECTION
- 9. INSTALL 2" AC OVERLAY OVER EXISTING AC PATH PER 2" AC OVERLAY SECTION
- 10. SAWCUT AND REMOVE EXISTING CONCRETE PATH BETWEEN AC PATH AND FENCE.
  INSTALL NEW CONCRETE WALK TO CONNECT TO OVERLAYED AC PER CITY OF CORNELIUS
  STANDARD DETAIL S-2 & S-25





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CORNELIUS

CT IMPROVEMENTS (NORTH)

DESIGNED BY:

DRAWN BY:

GME

MANAGED BY:

CHECKED BY:

DATE: 05/06/2020

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REVISIONS

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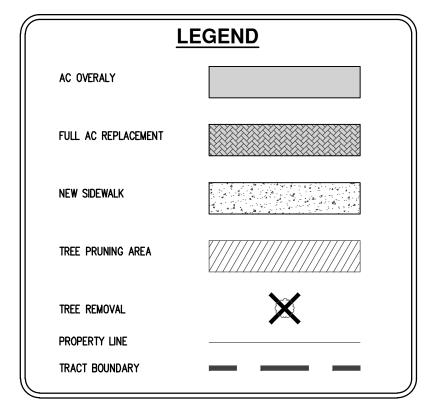
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RENEWAL DATE: 06/30/2020

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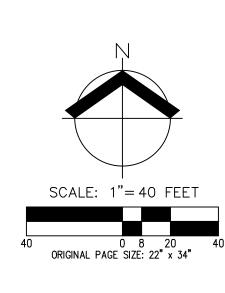
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### # KEYED NOTES:

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COUNCIL

PROJEC

CT IMPROVEMENTS (SOUTH)

DESIGNED BY:

DRAWN BY:

GMB

MANAGED BY:

CHECKED BY:

AKH

DATE: 05/06/2020

PROFIT

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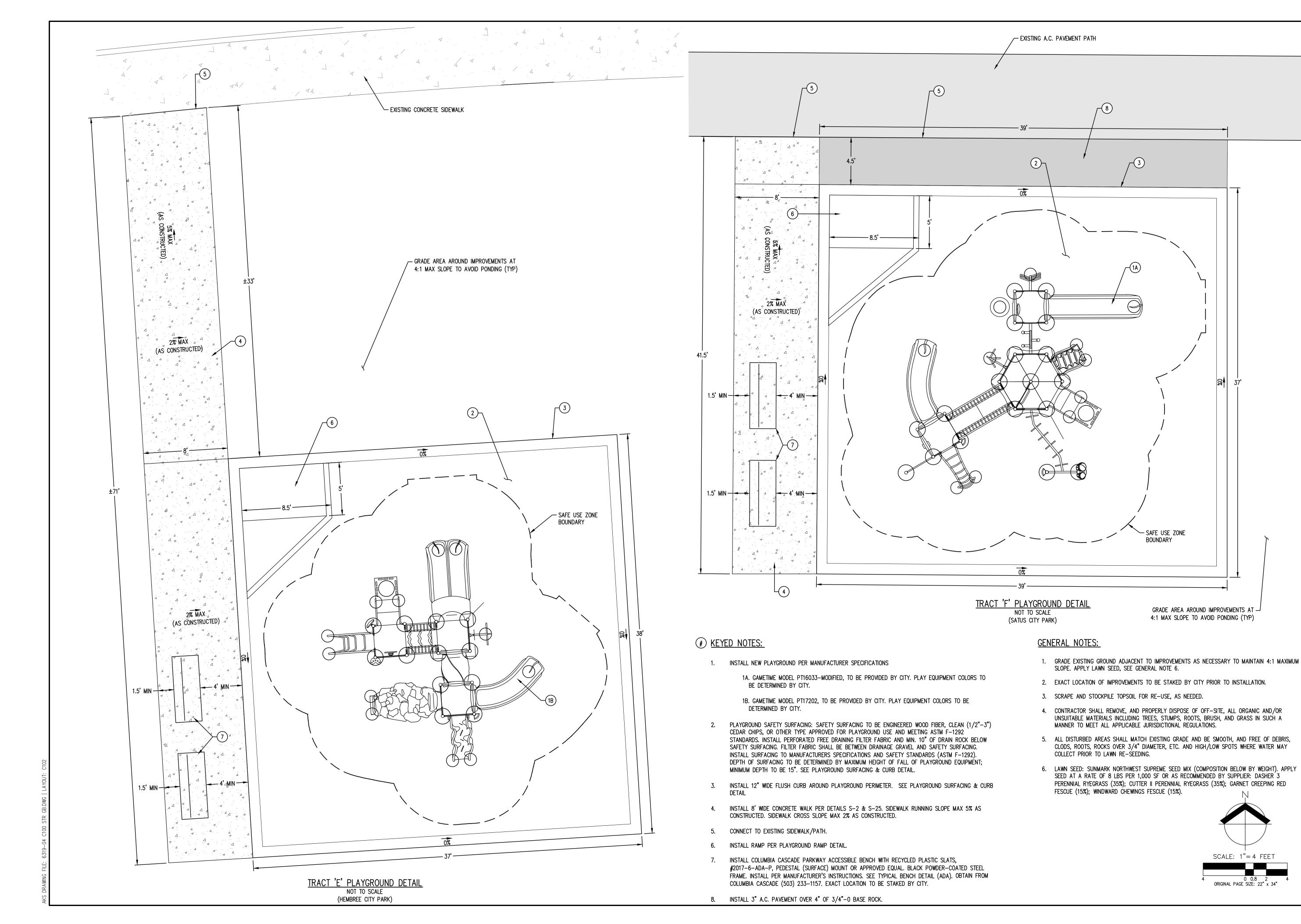
AND BY:

RENEWAL DATE: 06/30/2020

REVISIONS

JOB NUMBER 6319-04

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NKP/JAW NKP/GME KAH/AKH DATE: 05/06/2020

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RENEWAL DATE: 06/30/202

JOB NUMBER 6319-04

SHEET C102

PLAYGROUND RAMP DETAIL

C103

CONCRETE SHALL BE 3000 PSI MIN. (CLASS B) 31/2" SLUMP (MAX). COMPACTED SUBGRADE & AGGREGATE TO 95% OF MAXIMUM DRY DENSITY PER T-99.

PLAYGROUND AREA SHALL MEET ASTM F-1487 STANDARDS FOR PLAY EQUIPMENT AND ASTM F-1292 FOR IMPACT SURFACING. COORDINATE WITH MANUFACTURER FOR

PLACE PLAY EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED SAFE USE ZONES. CONFIRM WITH MANUFACTURER PRIOR TO SETTING EQUIPMENT.

SAFETY SURFACING SHALL BE ENGINEERED WOOD FIBER OF A TYPE RECOMMENDED BY THE PLAYGROUND EQUIPMENT MANUFACTURER.

PLAY EQUIPMENT HEIGHTS, FALL AREA, AND IMPACT SURFACE THICKNESS.

5. FILTER FABRIC TO BE NON-WOVEN, FREE DRAINING, AND FLOW THROUGH.

#### PLAYGROUND EQUIPMENT GENERAL NOTES:

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING FURNISHING AND MATERIAL QUANTITIES PRIOR TO BIDDING AND INSTALLATION. VERIFY SAFE USE ZONES FOR PLAY EQUIPMENT WITH MANUFACTURER TO FIT CONDITIONS IN THE FIELD PRIOR TO PURCHASING EQUIPMENT. PLAY EQUIPMENT SHALL CONFORM TO ASTM F1487-17 STANDARD CONSUMER SAFETY PERFORMANCE SPECIFICATION FOR PLAYGROUND EQUIPMENT FOR PUBLIC USE, CURRENT EDITION.
- 2. FURNISHINGS SHOWN ARE INTENDED TO SHOW DESIGN INTENT. PRODUCTS OF EQUAL QUALITY AND FUNCTION MAY BE PERMITTED. SUBMIT ALL SUBSTITUTION REQUESTS AND PRODUCT INFORMATION TO OWNER FOR APPROVAL PRIOR TO PURCHASE.
- 3. JOB CONDITIONS: LOCATE ALL UNDERGROUND UTILITIES AND DRAINAGE SYSTEMS PRIOR TO EXCAVATION. NOTIFY OWNER OF ANY CONFLICTS.
- 4. QUALITY ASSURANCE:
  - ALL STRUCTURES SHALL BE LEVEL AND SECURE. ALL CORNERS SHALL MEET EXACTLY, LEAVING NO PINCH OR CRUSH POINTS TO BE EXPOSED BY THE UNPLANNED MOVEMENT OF ANY PIECE OF THE STRUCTURE AGAINST ANY OTHER SOLID OBJECT.
  - THERE SHALL BE NO SHARP EDGES OR PROTRUSIONS ON ANY EXPOSED SURFACE. ALL EDGES SHALL BE HEMMED, ROLLED, CURLED, EASED, OR CAPPED.
  - ALL ACCESSIBLE, EXPOSED HARDWARE SHALL REQUIRE THE USE OF SPECIALIZED TOOLS NOT GENERALLY USED IN THE PUBLIC DOMAIN.
  - THE PLAYGROUND IMPACT MATERIALS SHALL MEET THE STANDARDS SET BY THE U.S. CONSUMER PRODUCT SAFETY COMMISSION
  - ASTM 1487 STANDARDS FOR IMPACT SAFETY SURFACING (ASTM F-1292).

     STRUCTURES SHALL BE TO MANUFACTURER'S STANDARDS AND THE SAFETY STANDARDS OF THE MAJOR SAFETY ORGANIZATIONS
- (ASTM, CPSC, AND TUV (EUROPEAN STANDARD)).
- 5. PLAY EQUIPMENT INSTALLERS SHALL BE EXPERIENCED IN INSTALLATION OF SIMILAR PLAY EQUIPMENT, HAVE A MINIMUM OF 2-YEARS' EXPERIENCE, AND PROVIDE PROOF OF AT LEAST ONE OF THE FOLLOWING CERTIFICATIONS:
  - IPSI/CPSI CERTIFICATE NUMBER
  - NPCAI PLAYGROUND CONSTRUCTION SCHOOL
  - PLAYGROUND MANUFACTURER TRAINED
     CCB GOOD-STANDING AND SUCCESSFUL TRACT RECORD OF PLAYGROUND INSTALLS WITH REFERENCES

COORDINATE PLAYGROUND EQUIPMENT INSTALLATION REVIEW BEFORE, DURING, AND AFTER INSTALLATION WITH CITY OF CORNELIUS APPROVED PLAYGROUND INSPECTOR. PLAY EQUIPMENT SHALL BE INSPECTED BY A CERTIFIED PLAYGROUND SAFETY INSPECTOR (CPSI) WITH NPRA CERTIFICATION. CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY DEFICIENCIES AS IDENTIFIED BY THE CPSI RESULTING FROM IMPROPER INSTALLATION OR HANDLING OF PLAY EQUIPMENT.

- 6. LAY OUT PLAY AREA ACCURATELY IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION DRAWINGS AND SPECIFICATIONS, MAINTAINING REQUIRED SAFE USE FALL ZONES. REPORT DISCREPANCIES TO THE OWNER AND RECEIVE APPROVAL FROM OWNER PRIOR TO BEGINNING CONSTRUCTION.
- 7. DRILL HOLES FOR FOOTINGS WITH POWER AUGER INTO FIRM, UNDISTURBED, OR WELL COMPACTED SOIL. EXCAVATE HOLES FOR FOOTING AT LEAST 3—INCHES DEEPER THAN THE BOTTOM OF THE POSTS. PROVIDE CYLINDRICAL REMOVABLE OR PERMANENT FORMS FOR EACH POST TO A DEPTH OF NOT LESS THAN 2—INCHES BELOW SUBGRADE UNDER PLAYGROUND CUSHION MATERIAL, TAKING INTO ACCOUNT THE REQUIRED DEPTH OF SAFETY SURFACING. EXTEND POSTS TO DEPTHS INDICATED ON THE MANUFACTURER'S APPROVED SHOP DRAWINGS AS RECOMMENDED BY MANUFACTURER TO PROVIDE RIGID SUPPORT FOR EQUIPMENT SUPPORTED BY EACH FOOTING.
- 8. SET POSTS IN EXCAVATION TO REQUIRED DEPTHS AS SUGGESTED BY MANUFACTURER AND ACCOUNTING FOR SAFETY SURFACING INSTALLATION. CENTER PIPES IN FORMS AND ALIGN AND LEVEL AS REQUIRED TO CONFORM WITH MANUFACTURER'S SHOP DRAWINGS AND INSTALLATION REQUIREMENTS. BRACE AND SHORE UP PIPE TO SECURE THEM FIRMLY IN PLACE DURING CONCRETE PLACEMENT.
- 9. PLACE ANCHOR RODS IN PIPES PRIOR TO PLACEMENT OF CONCRETE. FASTEN ANCHORS SECURELY TO PREVENT DISLODGEMENT DURING CONCRETE PLACEMENT.
- 10. AFTER POSTS ARE SET, INCREASE FOOTING EXCAVATION AS REQUIRED TO PROVIDE MINIMUM CONCRETE COVER TO CONFORM TO MANUFACTURER'S SHOP DRAWINGS. MAINTAIN MINIMUM SAFETY SURFACING IMPACT DEPTHS.
- 11. DO NOT POUR FOOTING WITHOUT APPROVAL FROM CITY OF CORNELIUS. CONTRACTOR SHALL CALL FOR CITY INSPECTION. FOOTINGS SHALL ACCOUNT FOR DEPTH OF SAFETY SURFACING INSTALLATION. TOP OF FOOTING TO BE BELOW SAFETY SURFACING.
- 12. WET FORMS AND HOLES THOROUGHLY WITH WATER PRIOR TO DEPOSITING CONCRETE THEREIN. DO NOT ALLOW WATER TO PUDDLE IN FOOTING EXCAVATION. PLACE CONCRETE AROUND POSTS IN ONE CONTINUOUS OPERATION. CONTINUOUSLY ROD AND TAMP TO CONSOLIDATE MATERIAL AND TO REMOVE AIR POCKETS DURING PLACEMENT OPERATIONS. TROWEL TOP OF SURFACE OF FOOTINGS TO FORM SLOPE OR DOME CONFIGURATIONS TO DIRECT WATER AWAY FROM PIPES.
- 13. CONCRETE CURING AND BACKFILLING: THOROUGHLY DAMPEN CONCRETE WITH CONTINUOUS APPLICATION OF CLEAN WATER OR COAT WITH A MEMBRANE-FORMING CURING COMPOUND. BACKFILL AROUND FOOTINGS WITH APPROVED MOIST MATERIALS. THOROUGHLY COMPACT BACKFILL TO WITHIN 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT AS DETERMINED BY AASHTO STANDARD T-99. MAINTAIN CONCRETE FOUNDATIONS IN A MOIST CONDITION FOR AT LEAST 5-DAYS.
- 14. PLAYGROUND AREA SHALL MEET ASTM F-1487 STANDARDS FOR PLAY EQUIPMENT AND ASTM F-1292 STANDARDS FOR SAFETY SURFACING. PLACE PLAY EQUIPMENT IN ACCORDANCE WITH SAFE USE ZONES. CONTRACTOR SHALL CONFIRM AND COORDINATE PLAY EQUIPMENT HEIGHTS, FALL AREA, FOOTINGS, AND SAFETY SURFACE THICKNESS AND SAFE USE ZONES WITH MANUFACTURER PRIOR TO ORDERING AND PLACING EQUIPMENT. REFER TO PLAYGROUND EQUIPMENT GENERAL NOTES.
- 15. EQUIPMENT INSTALLATION: DO NOT INSTALL EQUIPMENT UNTIL CONCRETE FOOTINGS SUPPORTING SUCH EQUIPMENT HAVE CURED FOR AT LEAST 7—DAYS. DO NOT INSTALL DECKS AND ACCESSORIES UNTIL CUSHION MATERIAL IS IN PLACE. ATTACH DECKS AND ACCESSORIES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. DECK HEIGHTS AS INDICATED ON THE PRODUCT DATA SHEETS SHALL BE MEASURED FROM TOP OF CUSHION MATERIAL TO DECK SURFACE WITH TOLERANCES OF PLUS OR MINUS ONE—INCH, OR AS RECOMMENDED BY MANUFACTURER.
- 16. PLAYGROUND IMPACT SAFETY SURFACES TO BE ENGINEERED WOOD FIBER, CLEAN (1/2"-3") CEDAR CHIPS, OR OTHER TYPE APPROVED FOR PLAYGROUND USE, MEETING ASTM F-1292 STANDARDS, AND ALLOWED BY THE CITY OF CORNELIUS. GRADE ENTIRE AREA TO GRADES SHOWN ON ENGINEERING PLANS FOR DRAINAGE. INSTALL PERFORATED FREE DRAINING FILTER FABRIC AND MIN. 10" DRAIN ROCK BELOW IMPACT SAFETY SURFACING. FILTER FABRIC SHALL BE BETWEEN DRAINAGE GRAVEL AND IMPACT SAFETY SURFACING. INSTALL IMPACT SAFETY SURFACING TO MANUFACTURER'S SPECIFICATION AND SAFETY STANDARDS (ASTM F-1292). DEPTH OF IMPACT SAFETY SURFACING TO BE DETERMINED BY MAXIMUM HEIGHT OF FALL OF PLAYGROUND EQUIPMENT; MINIMUM DEPTH TO BE 15".
- 17. CONTRACTOR TO INSTALL PERMANENT STICKER ON PLAY STRUCTURE POSTS TO INDICATE LEVEL AT WHICH SAFETY SURFACING MUST BE MAINTAINED. REFER TO DETAIL (THIS SHEET).
- 18. PLAY EQUIPMENT SHALL BE INSPECTED AFTER INSTALLATION BY A CERTIFIED PLAYGROUND SAFETY INSPECTOR WITH NPRA CERTIFICATION. CERTIFIED PLAYGROUND SAFETY INSPECTOR SHALL BE HIRED BY CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING DEFICIENCIES IDENTIFIED DURING INSPECTION.

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12965 SW HERMAN RD, 3 TUALATIN, OR 97062 503.563.6151 WWW.AKS-ENG.COM

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PROJECT

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AYGROUND DETAILS

DESIGNED BY: NKP/JAW
DRAWN BY: NKP/GMB
MANAGED BY: JAW
CHECKED BY: KAH/AKH
DATE: 05/06/2020

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REVISIONS

REVISIONS

JOB NUMBER 6319-04

SHEET

C103

#### **THICKNESS**

	ON-STREET PARKING BAYS	ALLEYS AND WOONERFS	MAINTENANCE ACCESS ROADS	COMMERCIAL DRIVEWAYS	RESIDENTIAL DRIVEWAYS	SIDEWALK AND MULTI- USE PATHS
CONCRETE	6"	6"	6"	8"	6"	4"
REBAR	NO	NO	NO	YES	NO	NO
BASE COURSE	6"	8"	6"	4"	4"	4"

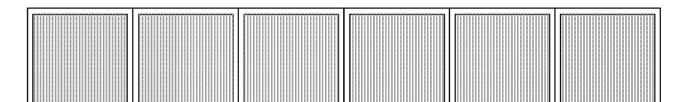
- 1. CONCRETE SHALL BE 4000 PSI, 28 DAY STRENGTH EXCEPT RESIDENTIAL DRIVEWAYS, SIDEWALKS AND MULTI-USE PATHS WHERE THE CONCRETE STRENGTH SHALL BE 3,300 PSI, 28-DAY.
- 2. SUBGRADE COMPACTED TO 95% AASHTO T-99 3. WHEREVER SIDEWALK CROSSES A ROADWAY, ALLEY, OR DRIVEWAY, THE ROADWAY CROSS—SECTION SHALL PREVAIL.



STREETS CONCRETE PAVEMENT S - 2 **THICKNESS** 3/17/17

#### FINISHING NOTES:

- 1. ALL SIDEWALKS SHALL HAVE A BROOMED SURFACE UNLESS OTHERWISE SPECIFIED. 2. FINISHED SURFACES SHALL BE FREE FROM HUMPS, SAGS, OR OTHER IRREGULARITIES.
- 3. ALL SURFACES SHALL BE BROOMED TRANSVERSE TO THE DIRECTION OF TRAFFIC. 4. THE EDGES SHALL BE FINISHED WITH A 3" SHINE ON ALL SIDES AS SHOWN BELOW.



#### **INSPECTION NOTES:**

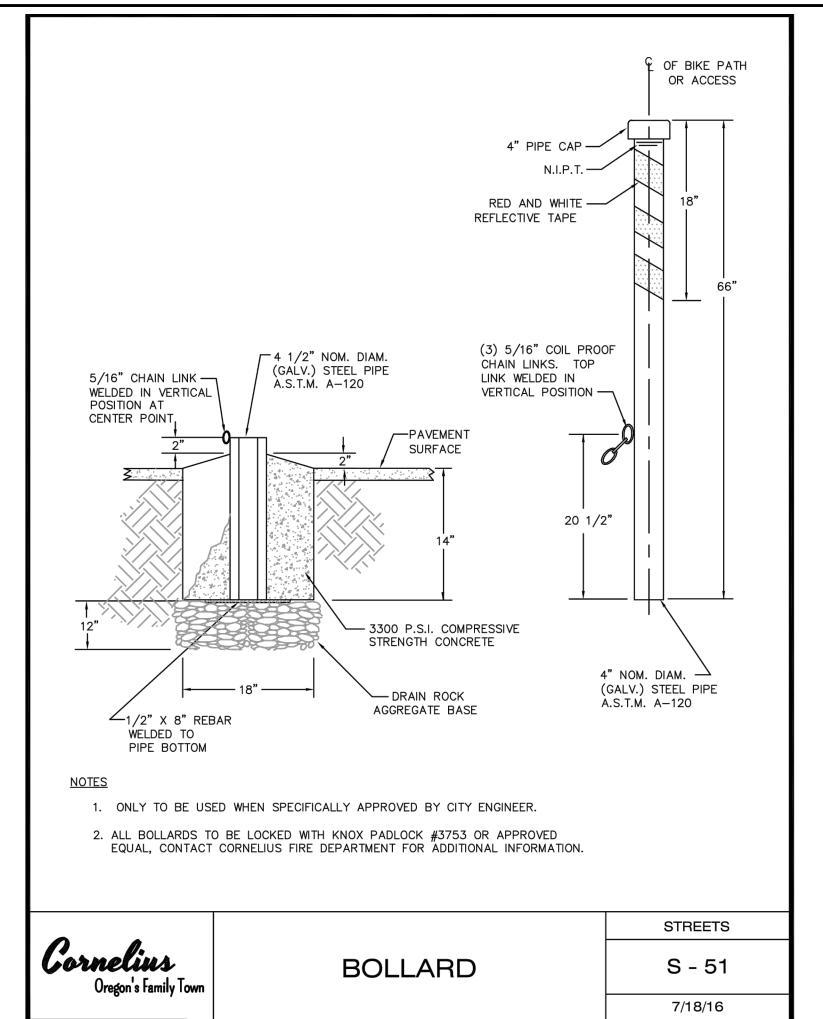
- 1. ALL SIDEWALK FORMS ARE TO BE INSPECTED BY THE PUBLIC WORKS INSPECTOR TWICE. ONCE PRIOR TO PLACING, TO CHECK FORMS, AND AGAIN AFTER POURING TO ENSURE
- CONFORMANCE TO FINISHING SPECIFICATIONS.
- 2. INSPECTION REQUESTS MUST BE MADE AT LEAST 24 HOURS IN ADVANCE BY CONTACTING PUBLIC WORKS. 3. IF FORMS ARE NOT INSPECTED AND APPROVED OR FINISH WORK IS SUBSTANDARD, THE INSPECTOR SHALL REQUIRE THE CONCRETE BE REMOVED AND REPLACED.

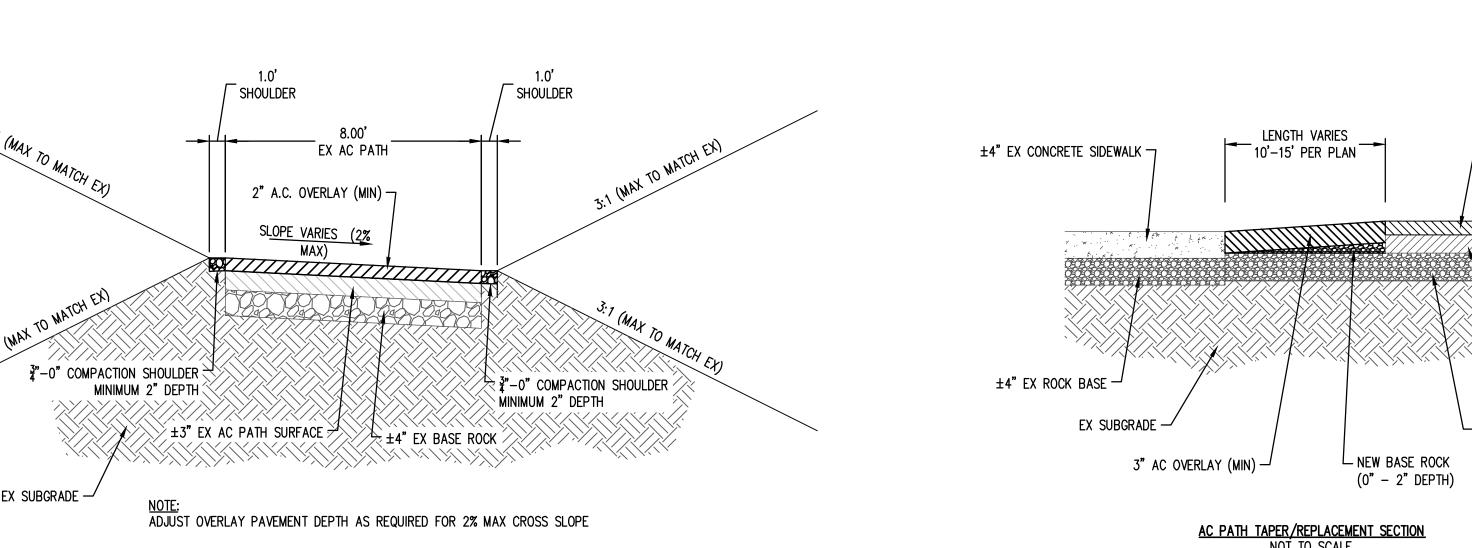
CMINA
Cornelius—Oregon's Family Town

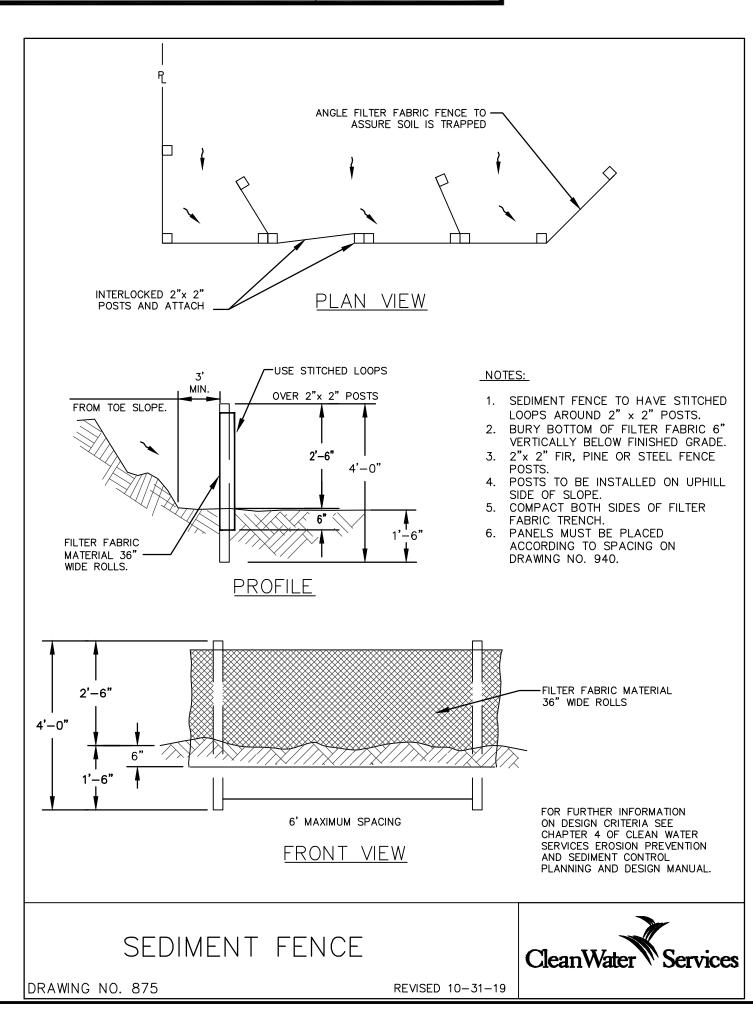
SIDEWALK FINISHING

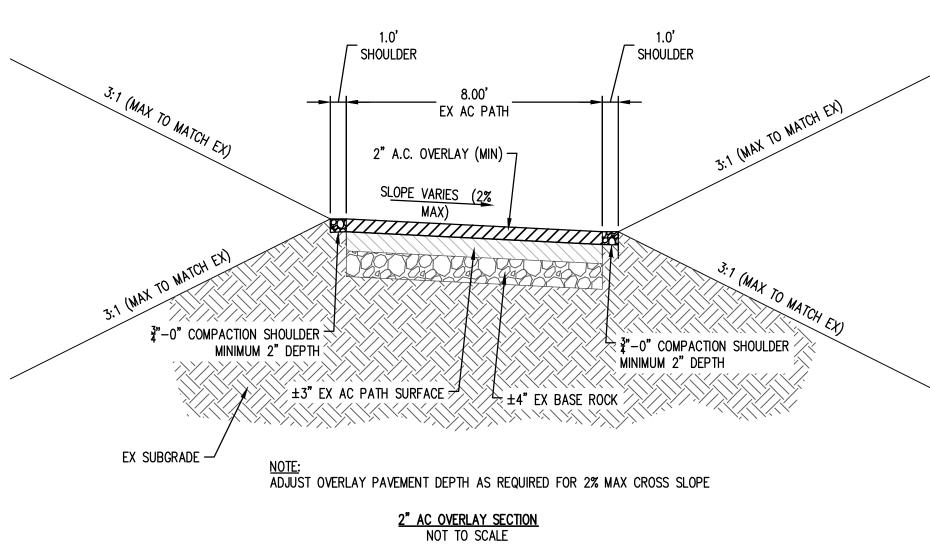
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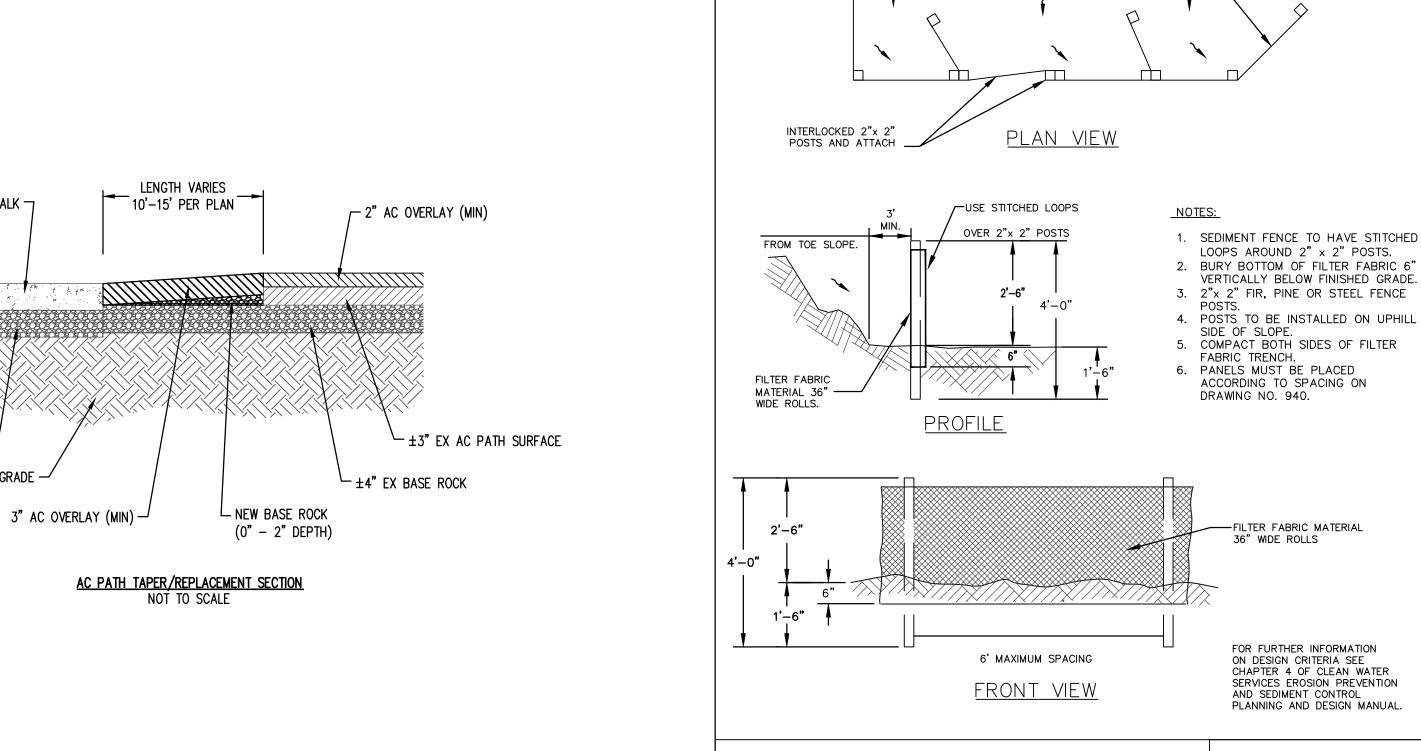
STREETS











RENEWAL DATE: 06/30/2020

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DATE: 05/06/2020

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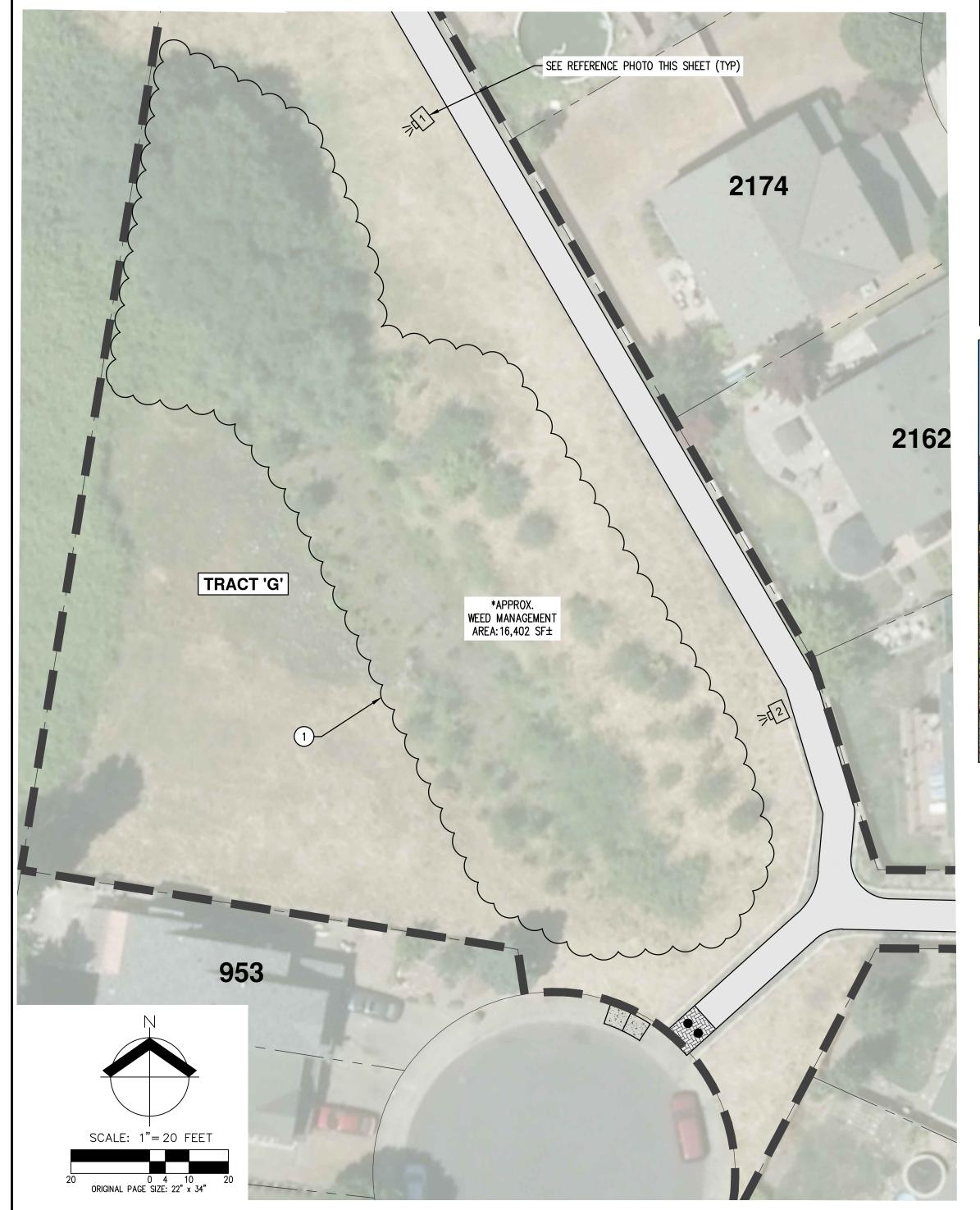
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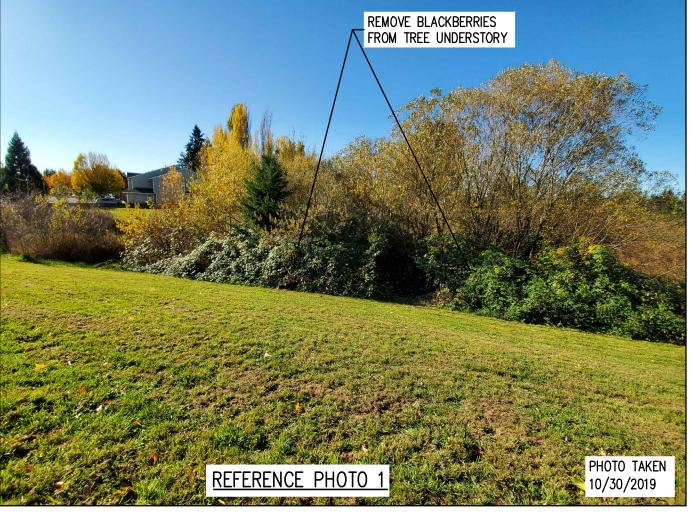
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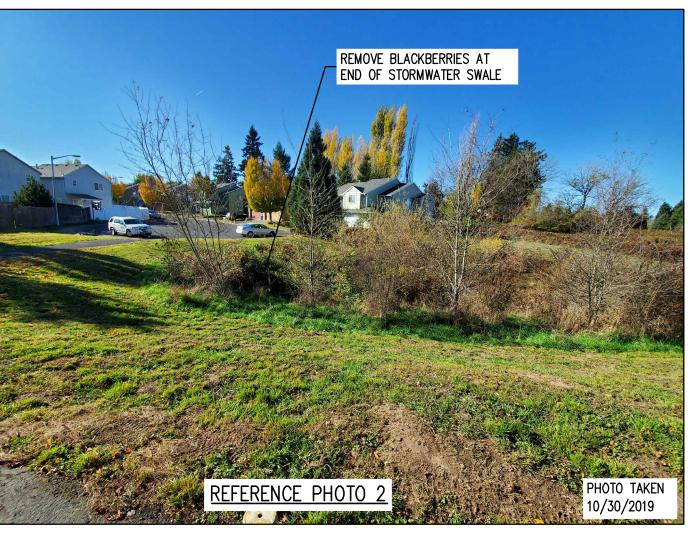
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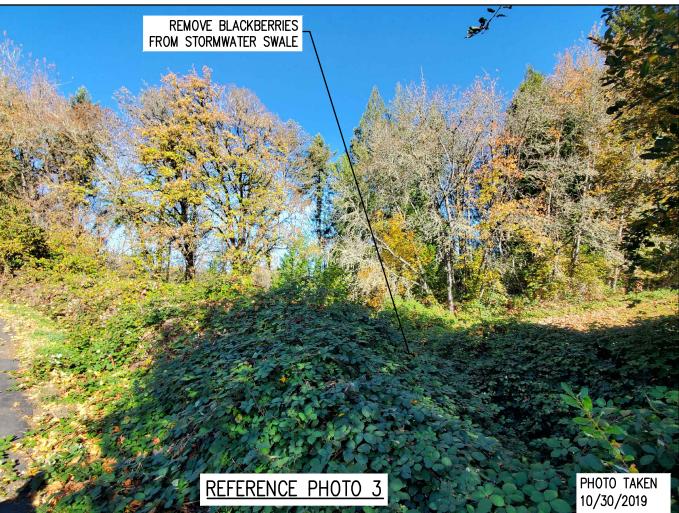
#### **#** KEYED NOTES:

1. CONTRACTOR SHALL REMOVE INVASIVE VEGETATION WHERE ENCOUNTERED WITHIN WEED MANAGEMENT AREA. SEE GENERAL NOTES FOR TREATMENT DETAILS.









# TRACT 'H' \*APPROX. WEED MANAGEMENT AREA: 12,104 SF± 2344 2358 2382 \*NOTE: APPROXIMATE AREAS NOTED ARE PROVIDED FOR CONVENIENCE ONLY. DIMENSIONS HAVE NOT BEEN SURVEYED AND ARE BASED ON AERIAL PHOTOGRAPHY

#### **GENERAL NOTES:**

- 1. INVASIVE SPECIES INCLUDE BUT ARE NOT LIMITED TO HIMALAYAN/ARMENIAN BLACKBERRY (RUBUS ARMEIACUS); REED CANARY GRASS (PHALARIS ARUNDINACEA); SCOTCH BROOM (CYTISUS SCOPARIS), CANADA THISTLE (CIRSIUM ARVENSE); COMMON TEASEL (DIPSACUS FULLONUM); AND CATTAIL (TYPHA LATIFOLIA, AND OTHER SPECIES LISTED IN CWS' IMP APPENDIX A: INVASIVES AND THE OREGON INVASIVE SPECIES COUNCIL.
- 2. TREATMENT SHALL COMPLY WITH CLEAN WATER SERVICES' INTEGRATED PEST MANAGEMENT (IPM) MANUAL AND CONSIST OF MECHANICAL REMOVAL (CUT, HAND DIG, MOW, ETC.) AND HERBICIDE APPLICATION WHERE PERMITTED. MOW GRASS TO A HEIGHT OF 4-INCHES, TAKING CARE NOT TO DAMAGE WOODY VEGETATION (TREES/SHRUBS) TO REMAIN. REFER ALSO TO GENERAL NOTE 1, THIS SHEET. TREAT BLACKBERRY STUMPS WITH HERBICIDE AND REMOVE CANES FROM TREES AND SHRUBS IN AREA. CONTROL AND REMOVAL OF INVASIVE SPECIES SHALL NOT DAMAGE NATIVE VEGETATION TO REMAIN. AVOID ANY CHEMICAL OVERSPRAY AND REMOVE VINES FROM TREES AND SHRUBS BY HAND WHERE ENCOUNTERED TO MINIMIZE DAMAGE. AFTER INVASIVE REMOVAL, PRUNE BROKEN AND DEAD TREE BRANCHES IN ACCORDANCE WITH ANSI A300 STANDARDS AND OVERSEED 5. PROTECT STRUCTURES, UTILITIES, PIPE OUTFALLS, AND OTHER INFRASTRUCTURE FROM DAMAGE BARE AREAS GREATER THAN 25-SQUARE FEET AS INDICATED IN GENERAL NOTES 3 & 4 THIS
- 3. FREEBOARD AREA RESEEDING: AFTER INVASIVE SPECIES REMOVAL, ALL BARE AREAS GREATER THAN 25-SQUARE FEET SHALL BE OVERSEEDED WITH CLEAN WATER SERVICES' FREEBOARD SEED MIX OR APPROVED EQUAL: 40% DWARF TALL FESCUE, 30% DWARF PERENNIAL RYE; 25% CREEPING

- RED FESCUE, 5% COLONIAL BENT GRASS. APPLICATION RATE FOR SEED MIX SHALL BE 120# PER 7. SUCCESSFUL COMPLETION AND ESTABLISHMENT AT THE END OF THE ESTABLISHMENT PERIOD ACRE OR AS RECOMMENDED BY SUPPLIER. ESTABLISHMENT OF THE SEED MIX SHALL BE DËFINED AS 100% AERIAL COVERAGE OR AS INDICATED IN THE SPECIAL PROVISIONS. CONTRACTOR SHALL COORDINATE RESEEDING WITH PROJECT ENGINEER AND CITY TO STAKE LIMITS OF BOTH SEEDING
- 4. WATER TREATMENT AREA RESEEDING: AFTER INVASIVE SPECIES REMOVAL, ALL BARE AREAS GREATER THAN 25-SQUARE FEET SHALL BE OVERSEEDED WITH SUNMARK SEEDS NATIVE SWALE SEED MIX OR APPROVED EQUAL: 50% BLUE WILDRYE; 15% NATIVE RED FESCUE; 10% MEADOW BARLEY; 10% NORTHWESTERN MANNAGRASS; 10% AMERICAN SLOUGHGRASS; 5% TUFTED HAIRGRASS. APPLICATION RATE FOR SEED MIX SHALL BE 44# PER ACRE OR AS RECOMMENDED BY SUPPLIER. ESTABLISHMENT OF THE SEED MIX SHALL BE DEFINED AS 100% AERIAL COVERAGE OR AS INDICATED IN THE SPECIAL PROVISIONS. CONTRACTOR SHALL COORDINATE RESEEDING WITH PROJECT ENGINEER AND CITY TO STAKE LIMITS OF BOTH SEEDING TYPES.
- WHERE ENCOUNTERED.
- 6. ALL DEBRIS GENERATED FROM INVASIVE SPECIES REMOVAL, MOWING, PLANTING, AND OTHER WORK RELATED TO COMPLETION OF THIS CONTRACT SHALL BE REMOVED AND DISPOSED OF LEGALLY OFF-SITE.

- SHALL BE AS DEFINED IN THE SPECIAL PROVISIONS.
- 8. SEEDING SHALL BE PERFORMED DURING OPTIMAL WEATHER CONDITIONS AND AT LOW FLOW LEVELS TO MINIMIZE SEDIMENT IMPACTS. SITE DISTURBANCE, INCLUDING FOOT TRAFFIC, SHALL BE MINIMIZED TO THE GREATEST EXTENT POSSIBLE DURING ADVERSE WEATHER CONDITIONS.
- 9. WATERING SHALL BE PROVIDED, BY WATER TRUCK OR OTHER MEANS, FOR RE-SEEDED AREAS ONLY, AT A MINIMUM RATE OF AT LEAST 1" PER WEEK (INCLUDING NATURAL RAINFALL TOTALS) FROM JUNE 15 THROUGH OCTOBER 15 FOR THE FIRST YEAR AFTER SEEDING. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND EVALUATING THE SITE IN COMPLIANCE WITH THE SPECIAL PROVISIONS.
- 10. MAINTENANCE DURING THE ESTABLISHMENT PERIOD SHALL INCLUDE, BUT NOT BE LIMITED TO, INVASIVE/NON-NATIVE PLANT MATERIAL REMOVAL CONSISTENT WITH CLEAN WATER SERVICES INTEGRATED PEST MANAGEMENT STANDARDS; DEAD PLANT REPLACEMENT; WATERING, ETC. REFER TO CLEAN WATER SERVICES INTEGRATED PEST MANAGEMENT (IPM) MANUAL
- 11. SITE EVALUATION IS REQUIRED TO ENSURE 100% AERIAL COVERAGE. RE-SEED AS NECESSARY.
- 12. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH THE SPECIAL PROVISIONS AND PROJECT SPECIFICATIONS.

DATE: 05/06/2020

RENEWAL DATE: 06/30/202

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SCALE: 1"= 20 FEET

ORIGINAL PAGE SIZE: 22" x 34"

WHICH MAY NOT REFLECT ACTUAL CURRENT

RESPONSIBLE FOR ATTENDING THE PRE-BID

SITE CONDITIONS. CONTRACTOR SHALL BE

MEETING AND FOR FAMILIARIZING

THEMSELVES WITH CURRENT SITE CONDITIONS AND SCOPE OF WORK. APPROX. LOCATION OF EXISTING

653

TRACT 'J'

WEED MANAGEMENT

AREA: 20,320 SF±

TRACT 'I'

STORMWATER FACILITY FENCE

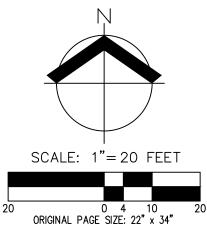
3. PROTECT EXISTING WESTERN RED CEDAR.

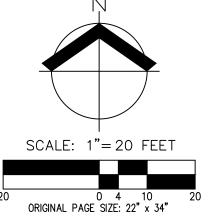
- 4. REMOVE TREES UNDER GUIDANCE OF PROJECT ENGINEER AND CITY. TREES TO BE REMOVED SHALL BE MARKED IN FIELD BY CITY REPRESENTATIVE PRIOR TO CONTRACTOR BEGINNING WORK. CUT TREES FLUSH WITH GROUND AND APPLY HERBICIDE TO RESULTING STUMPS USING CWS APPROVED TREATMENT METHOD, AVOIDING ANY CHEMICAL OVERSPRAY.
- 5. INSTALL LOCKING CHAINLINK GATE IN EXISTING FENCE, PER CLEAN WATER SERVICES DETAIL 792 (AS MODIFIED), THIS SHEET.
- 6. REMOVE EXISTING SHRUBS AND HERBACEOUS VEGETATION IN PLANTER BETWEEN SIDEWALK AND STORMWATER FACILITY FENCING. REPLACE WITH OREGON GRAPE (MAHONIA AQUIFOLIUM). 5-GALLON CONTAINERS, 36" O.C. (APPROX. 39 TOTAL).
- REMOVE APPROXIMATELY ONE-THIRD OF EXISTING WILLOW THICKET, AS DIRECTED BY CITY, AND TREAT STUMPS TO PREVENT RE-GROWTH IN ACCORDANCE WITH CLEAN WATER SERVICES' IPM PLAN. TREES TO BE REMOVED SHALL BE MARKED IN FIELD BY CITY REPRESENTATIVE PRIOR TO CONTRACTOR BEGINNING WORK.
- REMOVE EXISTING CURLY WILLOW TREE (SPRAY KILL RESULTING STUMP AND ANY OTHER VISIBLE, REMAINING GROWTH USING CWS APPROVED TREATMENT METHOD) AND REPLACE WITH (1) VINE MAPLE (ACER CIRCINATUM), 4'-5' HIGH, MULTI-STEM. ADD AN ADDITIONAL (4) MOUNTAIN FIRE PIERIS (PIERIS JAPONICA 'MOUNTAIN FIRE'), 5-GALLON CONTAINERS. SPREAD DARK HEMLOCK OR FIR BARK MULCH 3-INCHÉS DEEP THROUGHOUT PLANTER AREA UNDER AND ÁROUND NEW PLANTINGS. REFER TO REFERENCE PHOTO THIS SHEET.
- 9. PLACE BARK MULCH IN PLANTING BEDS BEHIND SIDEWALK. BARK MULCH SHALL BE DARK HEMLOCK OR FIR, MINIMUM 2" DEEP

#### **GENERAL NOTES\*\*:**

- 1. SHOULD SITE WORK AND INVASIVE REMOVAL DISTURB EXISTING GROUNDCOVER OR EXPOSE BARE SOIL, CONTRACTOR SHALL OVERSEED AREA WITH CLEAN WATER SERVICES' FREEBOARD SEED MIX OR APPROVED EQUAL, AND LIGHTLY TOPDRESS WITH MULCH TO HELP INSULATE AND PROTECT SEED UNTIL GERMINATED: APPLY AT A RATE OF 120#/ACRE IN ALL AREAS SHOWN AND DISTURBED AREAS ABOVE HIGH WATER MARK. 40% DWARF TALL FESCUE; 30% DWARF PERENNIAL RYE; 25% CREEPING RED FESCUE; 5% COLONIAL BENT GRASS
- CONTRACTOR SHALL MOW GRASSES IN THE FREEBOARD AREA (ABOVE WATERMARK) THROUGHOUT STORMWATER FACILITY TO 4" HEIGHT, TAKING CARE TO AVOID NATIVE TREES AND SHRUBS. DISPOSE OF ALL GENERATED DEBRIS LEGALLY OFF-SITE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH THE SPECIAL PROVISIONS AND PROJECT SPECIFICATIONS.

\*NOTE: APPROXIMATE AREAS NOTED ARE PROVIDED FOR CONVENIENCE ONLY. DIMENSIONS HAVE NOT BEEN SURVEYED AND ARE BASED ON AERIAL PHOTOGRAPHY WHICH MAY NOT REFLECT ACTUAL CURRENT SITE CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR ATTENDING THE PRE-BID MEETING AND FOR FAMILIARIZING THEMSELVES WITH CURRENT SITE CONDITIONS AND SCOPE OF WORK.





REMOVE BLACKBERRIES FROM FENCE AND PLANTING AREA ----

PLANT (4) MOUNTAIN FIRE PIERIS, 5-GALLON CONTAINERS. EVENLY SPACE TO FILL IN PLANTING BED. SPREAD NEW BARK MULCH 3" DEEP IN PLANTING BED

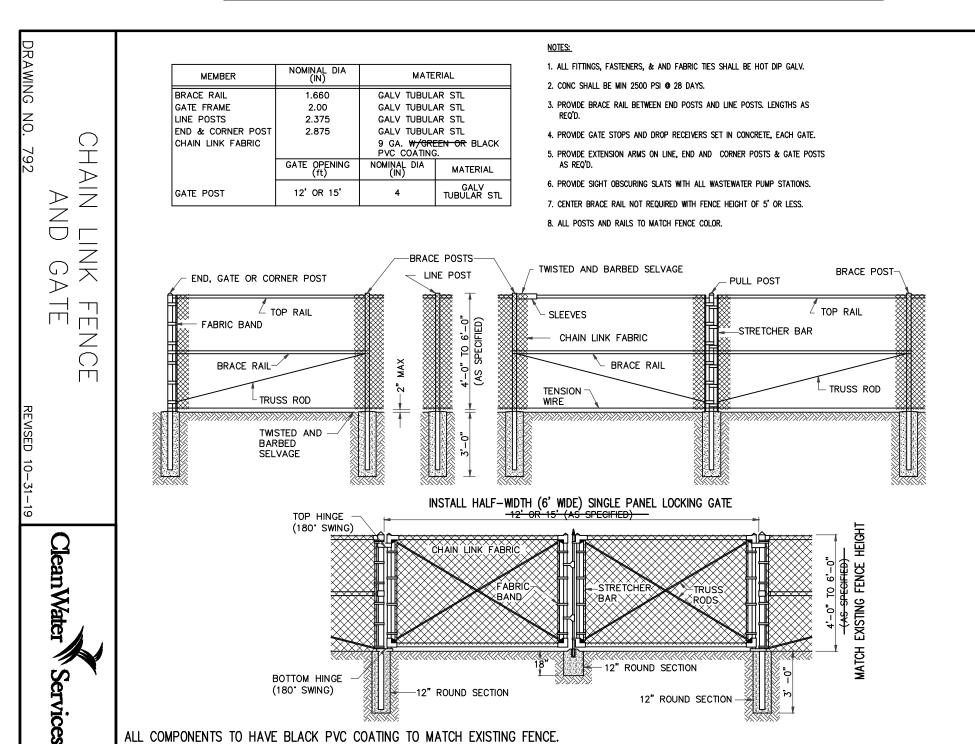




PLAN VIEW

N HOLLADAY ST

AERIAL PERSPECTIVE VIEW



DESIGNED BY: DATE: 05/06/2020

RENEWAL DATE: 06/30/20

JOB NUMBER 6319-04

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