GENERAL NOTES
UNLESS OTHERWISE NOTED:
1. WORK SHALL PROGRESS IN FOUR PHASES AS DETAILED BELOW (SEE SPEC).
PHASE 1 – 1st TO 2nd AV NE, NORTH OF NE 115th ST;
PHASE 2 – 20th AV NE, NORTH OF NE 115th ST AND 22nd AV NE, SOUTH OF NE 115th ST;
PHASE 3 – 22nd AV NE SOUTH OF NE 115th ST AND 23rd AV NE;
PHASE 4 – NE 117th ST BETWEEN 23rd AV NE AND 22nd AV NE

SEWER AND DRAINAGE NOTES
UNLESS OTHERWISE NOTED:
1. PIPE LESS THAN 12 INCH DIAMETER SHALL BE CONCRETE PER ASTM C141 CLASS 3.
2. DUCTILE IRON PIPE SHALL BE PER AND A25.51 CLASS 30 WITH PUSH ON JOINTS. FITTINGS FOR DUCTILE IRON PIPE SHALL BE DUCTILE PER AND A25.10 OR A25.33 WITH PUSH ON JOINTS.
3. BOXING SHALL BE CLASS B FOR ALL PIPE EXCEPT DUCTILE FROM PIPE (DSP, DSP) SHALL USE CLASS C CASTINGS WHEN CROSSING UNDERWAY PAVEMENT AND SHOULDER AREA. ALL OTHER 30' PIPE SHALL USE CLASS B CASTINGS.
4. WHERE A NEW PIPE CLEANER EXISTS ON NEW UTILITY BY 6" OR LESS, POLYVINYL CHLORIDE PLASTIC PIPE FORM SHALL BE PLACED AS A DUSHAN BETWEEN DUCTS.
5. SIDE SEWER CONNECTIONS SHALL BE PLACED AT A MINIMUM SLOPE OF 2% AND A MAXIMUM SLOPE OF 3% (40"/24") BACK CONNECTIONS AND SEWER TAPS SHALL BE PLACED AT A MINIMUM SLOPE OF 2% AND A MAXIMUM SLOPE OF 6% INLET CONNECTIONS SHALL BE PLACED AT A MINIMUM SLOPE OF 2% AND A MAXIMUM SLOPE OF 6%
6. DRAINAGE DITCHES IN THE CENTER POINT OF THE TEE SHALL BE INSTALLED NO LOWER THAN 20" AND NOT HIGHER THAN 4" ABOVE LOWEST POINT.
7. SERVICE DRAINS AND SIDE SEWERS SHALL BE CONNECTED/RECONNECTED AS APPROVED BY THE ENGINEER.
8. FOR ALL SIDE SEWERS BETWEEN DITCH LOCATIONS, SEE SPEC, PROVISIONS.
9. RELAY EXISTING SERVICE DRAIN/SIDE SEWERS TO CLEAR OR UNDER THE NEW UTILITY AS APPROVED BY THE ENGINEER. SERVICE DRAINS AND SIDE SEWERS SHALL NOT BE BACKFILLED UNTIL THE TEEs HAVE BEEN INSPECTED AND APPROVED AND THE LOCATION AND SLOPE ARE IN ACCORDANCE WITH THE COMPETENT PARTS OF THE DRAINAGE WORK.
10. SEE Adapter DRAIN on LANDSCAPING PLANS FOR ADAPTATION LINES.

EROSION CONTROL NOTES
UNLESS OTHERWISE NOTED:
1. TEMPORARY EROSION CONTROL, & STORM DRAIN BYPASS PLAN SHALL BE SUBMITTED BY CONTRACTOR FOR REVIEW AND APPROVAL. PRECONSTRUCTION MEETING.

LANDSCAPING NOTES
UNLESS OTHERWISE NOTED:
1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO REQUEST FIELD MARKING OF PLANT MATERIALS TO BE REMOVED (48 HOUR NOTICE). ALL PLANT MATERIALS NOT DESIGNATED TO BE REMOVED SHALL BE RETAINED AND PROTECTED. PLANT MATERIAL DESTROYED AND/OR IMPERMANENTLY DAMAGED DUE TO LACK OF DIRECTION AND/OR LACK OF MAINTENANCE CARE BY THE CONTRACTOR SHALL BE REPLACED IN KIND AND EVALUATED TO ASSESS DAMAGE WITH VALUE DEDUCTED FROM THE CONTRACT.
2. SIDE LOADING/channels on LANDSCAPING PLANS ARE FOR INFORMATION ONLY. CONTRACTOR SHALL REFER TO DRAINAGE PLANS FOR SIDE LOCATIONS.

SURVEY NOTES
UNLESS OTHERWISE NOTED:
1. SETTING OUT AND OFFSETS ON DRAINAGE PLAN AND PROFILES ARE RELATIVE TO SURVEY MONUMENT ALIGNMENT.
2. STATIONING AND OFFSETS ON PAVING PLAN AND PROFILES ARE RELATIVE TO Proposed ROADWAY CONSTRUCTION CENTERLINE.
3. ALL PROPERTY CONRADS WITHIN THE PROJECT AREA SHALL BE REFERENCE OUT FROM A SURVEY LAND SURVEY.

PAVING NOTES
UNLESS OTHERWISE NOTED:
2. EXISTING ASPHALT PAVING SHALL BE REMOVED ON A "NEED LINE" BASIS TO AREA NEAR NEW CONSTRUCTION.
3. IF SUBGRADE SOFT SPOTS ARE ENCOUNTERED THE CONTRACTOR SHALL OBTAIN REQUIRED COMPLIANCE IN ACCORDANCE WITH SECTIONS 2-083.22 AND 2-083.3 (OF THE STANDARD SPECIFICATIONS).
4. PRECAST REINFORCED CONCRETE SIDEWALKS AND CONCRETE WALKS WHICH ARE NOT SHOWN ON THE PLANS SHALL BE IN ACCORDANCE WITH THE "STREET AND SIDEWALK PAVEMENT DESIGN AND RECONSTRUCTION" EDITION 2003 EDITION.
5. REPIECALMENT OF CASTINGS AND COVERS WILL BE PROVIDED BY THE OWNERs OF THE UTILITIES. THE CONTRACTOR SHALL ADJUST ALL UTILITY CASTINGS AND WIRE BOXES TO ALIGNMENT TO THE FINAL PASSING/LOADING COURSE; CASTINGS AND WIRE BOXES DAMAGED DUE TO THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
6. CONTRACTOR SHALL NOTIFY NEIGHBORING BURIALS AT 206-684-5570 FOR EUAS (48) WORKING DAYS PRIOR TO NO TION REMOVAL, REPLACEMENT INSTALL, STAINS IN ACCORDANCE WITH THE STANDARD PLANS.
7. CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT (SHANE FORWARD AT 206-684-8483) FOUR (4) WORKING DAYS PRIOR TO REMOVE MONUMENT CASTINGS TO ENSURE THAT THE MONUMENTS ARE "FREE" PRIOR TO REMOVAL.
8. FOR CONCRETE STREETS WITH LESS THAN 4 RIVERS, SEE STANDARD PLAN 441.
9. CONTRACTOR SHALL NOTIFY ENGINEER AT LEAST 48 HOURS IN ADVANCE FOR SOIL COMPACTION. ALL MATERIALS TO BE CORRECTED TO MEET TEST PERIODS AND RESULTS ARE TO BE SUBMITTED TO CITY OF SEATTLE PLAN 5811.

DRRAINAGE, GRADING, PAVING, GAS SURVEY, WATER & T.E.S.C. NOTES
PINEHURST GREEN GRID
NATURAL DRAINAGE SYSTEM
C333202
APPROVED FOR ADVERTISING BY THE DEPARTMENT OF SEATTLE PARKS & RECREATION
SOCKET, WASHINGTON
20

City of Seattle
Chuca Feller, Director

DRAINAGE, GRADING, PAVING, GAS SURVEY, WATER & T.E.S.C. NOTES

C333202

APPROVED FOR ADVERTISING BY THE DEPARTMENT OF SEATTLE PARKS & RECREATION

SOCKET, WASHINGTON

20
SOIL INVESTIGATION LOCATIONS

LEGEND

- TEST PITS AND INFILTRATION TEST PITS
- SOIL BORDERS

NOTE:
SOIL BORING LOGS ARE INCLUDED IN THE APPENDIX OF THE PROJECT MANUAL. A GEOTECHNICAL REPORT IS AVAILABLE FOR REVIEW IN THE SPU RECORDS VAULT.
TESC NOTES

UNLESS OTHERWISE NOTED:

1. THE CONTRACTOR SHALL BE RESPONSIBLE TO PREVENT EROSION, CONTROL SEGMENTATION, AND SHALL PROVIDE PROTECTION FROM EXCESSIVE SEDIMENT—BEGINNING AT OR BEYOND THE CONSTRUCTION LIMITS OF THIS PROJECT TO CONDUCT RESPONSIBILITIES, INCLUDING DESIGN AND IMPLEMENTATION OF MEASURES TO PROTECT THESE LIMITS. SUCH MEASURES TO BE SPECIFIED IN THE STORMWATER POLLUTION PREVENTION PLAN (SPPP) AND INCLUDE AS A MINIMUM:
   a. Scheduling and Staging of All Construction Activities for Minimum Exposure and Optimum Compatibility With Seasonal and Site Conditions.
   b. Probationary Installation of Measures to Prevent Erosion and/or Migration of Sediments Prior to Commencement of the Work Activity Within Any Designated Area.
   c. Design and Implementation of Measures to Maximize Reuse of Materials and Compatibility With Permanent Site Improvements. Recycled Wood Chips and/or Composted Mulch Shall be Used As Temporary Erosion and Sediment Control to Cover Soil Surfaces Exposed and Left Uncovered in Excess of Two Days (48 Hours).
   d. Wood Chips Generated From Tree Removal and Site Clearing and Grubbing Activity. Shall be Inspected by the Engineer (To Glare Against Spreading of Irradiation) Prior to Reuse as Mulch for Erosion Control.
   e. Methods of Collection and Treatment of Construction Runoff That Does Not Meet State Water Quality Standards. If Discharging to a Storm Drain or King County Industrial Waste Standard, If Discharging to the Sanitary Sewer. Methods May Include, But Are Not Limited to the Use of Temporary Sedimentation Cells, As Specified in This Drawings, or a Sedimentation Tank Gathered onsite.

2. AS A PROVISION OF THE STORMWATER NOTES PERMIT FOR THIS PROJECT, THE CONTRACTOR SHALL SUMMARIZE AT THE PRE-CONSTRUCTION MEETING IN ACCORDANCE WITH ECOLOGY’S SUGGESTIONS. THE CONTRACTOR SHALL ALLOW A MINIMUM OF 10 WORKING DAYS FOR REVIEW AND APPROVAL. ANY CHANGES OR MODIFICATIONS TO THE PLAN SHALL BE REQUIRED PRIOR TO ANY CONSTRUCTION ACTIVITY.
   a. The Contractor Shall Submit 1-4 SD Plans to Be Provided by the Engineer for ALL Street Provisions to Serve as the Baseline for Submittals of SDN/SD.
   b. Plans Shall Indicate Geographical Staging for Work and Shall Identify Measures for Stabilization and Maintenance (Clean-Up) of Newly Constructed Diked Areas if Proposed for Use to Protect Sediment Baselines Used As a Temporary Sediment Control. Shall Be Excavated From 2M Ground Up to 1.5' Stump.
   c. Plans Shall Identify Construction Limits and Limits Otherwise Required to Protect Existing Trees, Understory Vegetation, or Other Existing Site Features of Benefit to Prevent Erosion and/or Control Sedimentation.
   d. The Contractor’s Submittal Shall Include Details for Erosion Prevention and Sedimentation Control Measures Identified by Number.
   e. The Plans Shall Include Temporary Bypass Measures to Minimize Exposure of Newly Constructed Dikes to Erosion and Sedimentation. See Specifications for Restoration Measures If Sediment Enters Streams.
   f. Plans Shall Include Measures to Protect Water Quality by Preventing Stormwater Runoff From Entering The Site.

III. GENERAL SPECIAL PROVISIONS APPLICABLE TO ALL PROJECT CORRIDORS SHALL BE LISTED IN NOTES ON THE CONTRACTOR’S SUBMITAL EXCLUDING BUT NOT LIMITED TO:
   b. Surface Clearing For All Tiled Areas Impact by the Contract Work Outside the Contract Limits Before the End of the Workday.
   c. The Contractor Shall Have a Water Truck Available to Clean Out the Segmentation Structures After Rain Storms and As Needed to Prevent the Movement of Accumulated Sediment Downstream.

LEGEND

INLET SEGMENTATION TRAP
CORR POLY OR TEMP EARTH BERM
TEMPORARY SEGMENTATION CELLS
CONSTRUCTION ORANGE FENCE
INLET PROTECTION
TEMPORARY DEPRESSION
GRASS AND CRUSHED GRAVEL

INFORMATION ONLY

TESC PLAN (TYP)
**PROPOSED ROADWAY CONSTRUCTION CENTERLINE PROFILE "PV19SCL"**

**CROSS SLOPE PERCENTAGES AND TRANSITION. SEE ROADWAY SECTIONS ON SHEET 50**

**PROJECT: C333202-LDT_19TH_CD, ALIGNMENT: PV19SCL**

<table>
<thead>
<tr>
<th>WEST SIDE</th>
<th>EAST SIDE</th>
<th>SIDEWALK</th>
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<tbody>
<tr>
<td>% SLOPE FROM $\phi$</td>
<td>START STATION</td>
<td>END STATION</td>
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<td>ELEVATIONS</td>
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<tr>
<td>MATCH TANGENT 0+00.00</td>
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<td>2. TOWARDS WEST SMALL 0+20</td>
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<td>2. TOWARDS WEST SMALL 0+60</td>
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<td>3. Transition from 2R to SMALL 0+80</td>
<td>0+100</td>
<td>3. Transition from 2R to SMALL 0+100</td>
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<td>4. SMALL TO EAST SIDEWALK, SEE CROWN SECTION ON SHEET NO. 0+110</td>
<td>0+120</td>
<td>4. SMALL TO EAST SIDEWALK, SEE CROWN SECTION ON SHEET NO. 0+110</td>
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<td>5. TOWARDS EAST SIDEWALK 0+120</td>
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<td>5. TOWARDS EAST SIDEWALK 0+120</td>
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**19TH AVE NE PAVING PROFILE**

**PINEHURST GREEN GRID NATURAL DRAINAGE SYSTEM**
PAVING CONSTRUCTION ITEMS:

1. Construct curb ramp per COS Standard Plan No 422A as revised, see Appendix A of the Contract Documents.
2. Construct sidewalk per COS Standard Plan No 420, except width as shown on plans.
3. Construct curb and gutter (410D) per COS Standard Plan No 410. Gutter portion grade shall be at least 1.5%.
4. Construct curb and gutter (410E) through intersection. Curb returns and gutter returns per COS Standard Plan No 410E. Gutter returns through curb returns per COS Standard Plan No 422A as revised, see Appendix A.
5. Construct type 430D sidewalk per COS Standard Plan No 430.
6. Construct concrete band, per paving cross section.
7. Construct concrete pad for locking mailbox per detail.
8. Not used.
9. Concrete driveway placed beyond sidewalk construction per COS Standard Plan No 431.
10. Center of future curb ramp depress curb to provide low point and transitions per SIDOT Standard Plan.
11. Construct new, unaltered concrete curb a patch to match existing grade.
12. Non-locking mailbox per detail.
14. Gravel and wood chip walk.
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PROFILE 117TH AVE NE (22ND AVE NE-23RD AVE NE)

SCALE: 1" = 100 ft.

LOT ALIGNMENT: PROGRESS.

NOTES:
1. PROFILE DRAWN TO SCALE AND SHOULD NOT BE USED FOR SCALING.
2. PROFILE PROVIDED TO SHOW CALL OUT ELEVATIONS WHICH ARE CRITICAL.
3. ENGINEER A MINIMUM OF 30 DAYS PRIOR TO STARTING CONSTRUCTION ON NE 117TH ST.

PROFILE CROSSING NE 117TH

@ W SIDE OF 17TH AVE NE

SCALE: 1" = 100 ft.

LOT ALIGNMENT: PROGRESS.

PROFILE CROSSING NE 117TH

@ E SIDE OF 17TH AVE NE

SCALE: 1" = 100 ft.

LOT ALIGNMENT: PROGRESS.

PROFILE CROSSING NE 117TH

@ BETWEEN 17TH & 19TH AVE NE

SCALE: 1" = 100 ft.

LOT ALIGNMENT: PROGRESS.

PROFILE CROSSING NE 117TH

@ 20TH AVE NE (N)

SCALE: 1" = 100 ft.

LOT ALIGNMENT: PROGRESS.

NE 117TH ST

DRAINAGE PROFILE 2/2

PINEHURST GREEN GRID

NATURAL DRAINAGE SYSTEM

City of Seattle

Chuck Olseth, Director

APPROVED FOR ADVERTISING

APPROVED: 4/25/2022

DEPARTMENT OF CITY ADMINISTRATION

PUBLIC UTILITIES

SEATTLE, WASHINGTON

777-506

Sheet 54 of 56
NOTES:
1. STREAM BED COBBLES SHALL BE PLACED SUCH THAT IT AMOUNTS 1 FOOT MINIMUM DRAWS AS MEASURED FROM OUTSIDE PIPE DIAMETER FOR DIAMETER 3/4 OF PIPE.
2. STREAM BED COBBLES SHALL BE PLACED SUCH THAT IT AMOUNTS 1 FOOT MINIMUM DRAWS AS MEASURED FROM OUTSIDE PIPE DIAMETER OR BERM GRADE. ROCK AT BERM GRADE SHALL BE PLACED UP TO EXPOSED CONCRETE.
3. STEEP SLOPE BEYOND SMALL TRANSITION TO COVER CURVETệp BERM TO COVER CURVET surged MIN. IF MIN TOP SMALL ELEV IS LOWER THAN TOP OF PIPE, MOUND SIZE OVER PETS 3 FEET LOWER.
4. CEMENTARY SHOULDER 2 FEET MINIMUM. WALKWAY SHOULDERS ARE 1 FOOT.
5. ALL BERM DRAWING IS BEING WITH STREET R/W UNTIL ADJUSTMENTS TO PRIVATE PROPERTY ARE IDENTIFIED ON PLAN.
TYPICAL SECTION
23RD AVE NE
NE 117TH ST TO NE 115TH ST
APPROXIMATE STATION LIMITS
(STA. 1+30 TO 5+10)
SCALE 1" = 5'

WEST

EXISTING GROUND VARIES AT LOCATIONS
EXISTING GROUND IS ABOVE FINISH GRADE
(SEE PROFILE).

EXISTING GROUND VARIES AT LOCATIONS
EXISTING GROUND IS BELOW FINISH GRADE
(SEE PROFILE).

2'-0" CONCRETE BAND

ENGINEERED SOIL

CRUSHED ROCK

8'-0"

1'-0"

1'-0"

6" ASPHALT CLASS A

1'-0"

5'-0"

SAME ELEVATION

TYPICAL SECTION
20TH AVE NE
NE 113TH ST TO 23RD AVE NE
APPROXIMATE STATION LIMITS
(STA. 118+30 TO 119+25)
(STA. 120+30 TO 122+35)
SCALE 1" = 5'

WEST

EXISTING GROUND VARIES AT LOCATIONS
EXISTING GROUND IS ABOVE FINISH GRADE
(SEE PROFILE).

EXISTING GROUND VARIES AT LOCATIONS
EXISTING GROUND IS BELOW FINISH GRADE
(SEE PROFILE).

2'-0" CONCRETE BAND

ENGINEERED SOIL

CRUSHED ROCK

8'-0"

1'-0"

1'-0"

6" ASPHALT CLASS A

1'-0"

5'-0"

SAME ELEVATION

PINEHURST GREEN GRID
NATURAL DRAINAGE SYSTEM

TETRA TECH/KCM
APPROVED FOR ADVERTISING
05/01/2020

CLIMATE DRIVEN ENGINEERING
500 TAYLOR PLACE
AUBURN, WASHINGTON 98002

City of Seattle
Chuck Olseth, Director

Seattle Public Utilities
APPROVED
IMPERVIOUS AREA

PUBLIC WORKS
SUMMARY CTRL
SCALE AS NOTED

C333202
1/5

777-606

MARY 53 OF 56
### STAIRWAY & HANDRAIL

(Std Plan #4404 & #4406 MWD)

**Handrail Items List**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Top Railing</td>
</tr>
<tr>
<td>2</td>
<td>Horizontals</td>
</tr>
<tr>
<td>3</td>
<td>Posts</td>
</tr>
<tr>
<td>4</td>
<td>Under Coat</td>
</tr>
<tr>
<td>5</td>
<td>Finish</td>
</tr>
</tbody>
</table>

**Note:**
1. Install per Std Plan 4404
2. Unless shown on this sheet, otherwise see dimensions, notes, and callouts on Std Plan #4404 and 4406.
CONVEYANCE DITCH TYPE 2

CONVEYANCE DITCH TYPE 3

NOTE:

1. TURF REINFORCEMENT MAT SHALL BE 6'-0" - 6'-6"
   BY CALIBER OR APPROVED EQUAL (SEE SPEC)

LEGEND

- REMOVE ASPHALT PAVINGS
- CLEAR AND GRUB LIMITS

NOTES

UNLESS OTHERWISE NOTED:

1. FOR WATER METER AND HYDRANT ADJUSTMENT OR RELOCATION
   SEE NOTE 1, WATER NOTES ON SHEET 3
2. TREE PROTECTION FOR STS PLAN #133 & #134,
   DO NOT PLACE FENCING ON PRIVATE PROPERTY.
3. ANY GRADING WITHIN CRITICAL ROOT ZONE
   SHALL BE UNDER THE DIRECTION OF ENGINEER.
4. ALL VEGETATION AND IMPROVEMENTS ON PRIVATE
   PROPERTY SHALL BE PROTECTED
   IF DAMAGED BY CONTRACTOR, CONTRACTOR SHALL
   RESTORE TO EQUAL OR BETTER CONDITION, AND
   AS DIRECTED BY ENGINEER.

25TH AVE NE

REMOVAL & PROTECTION PLAN, DRAINAGE DETAILS

PINEHURST GREEN GRID
NATURAL DRAINAGE SYSTEM

1:200 SCALE