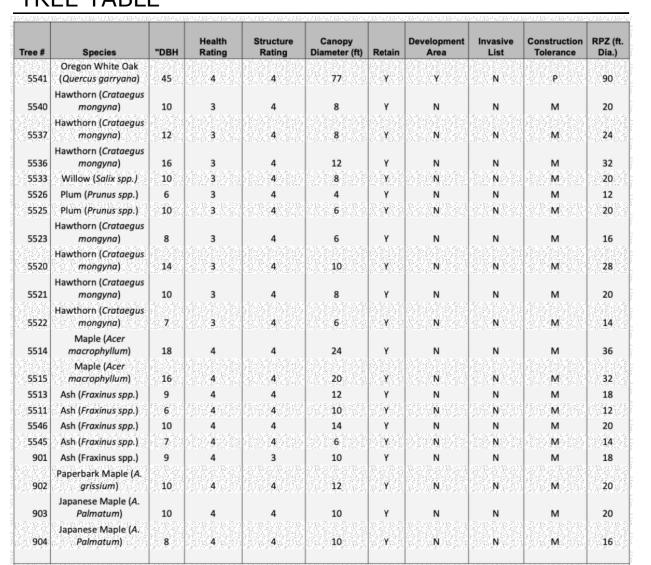
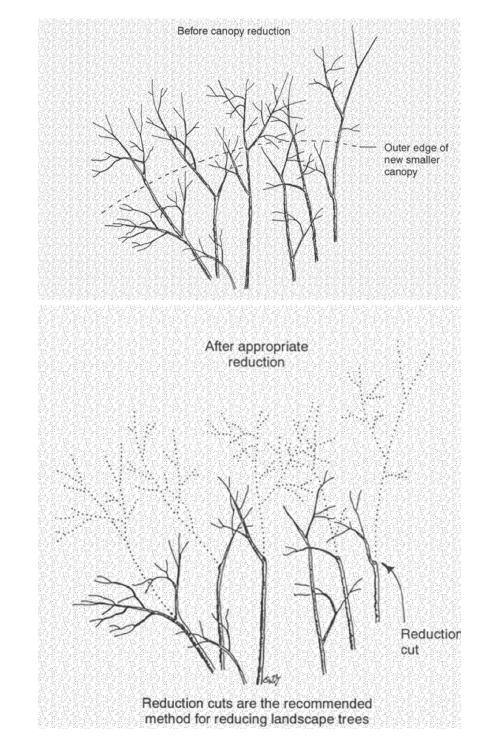


DESCRIPTION

DATE



TREE ASSESSMENTS PERFORMED AND TABLE PREPARED BY: CHRIS WHITMAN BCMA WE-10291BU, TRAQ, MEMBER ASCA INTEGRATED ARBORICULTURAL SOLUTIONS CHRIS@INTEGRATEDARBSOLUTIONS.COM



CROWN PRUNING

PIPE, 2" O.C.

SCALE: NTS

CROWN PRUNING FOR

- PERFORMANCE PATH TREES ONLY. SEE SHEET NOTES AND ARBORIST REPORT FOR MORE DETAILS. CONTACT PROJECT ARBORIST
- IF QUESTIONS ARISE ABOUT

CROWN PRUNING.

REMOVAL. NO PULLING OF ROOTS OR STUMPS SHALL OCCUR UNDER ANY CIRCUMSTANCES. 14 THE PROJECT ARBORIST **SHALL** MAKE AN ONSITE INSPECTION PRIOR TO COMMENCEMENT OF GRADING TO REVIEW TPP

SHEET NOTES

PROHIBITED.

ARBORIST.

PROJECT ARBORIST.

ARBORIST AND RECORDED.

ARBORIST, WHERE REQUIRED.

1 SEE CIVIL PLANS FOR GRADING AND STORMWATER AND EROSION

CONTROL. UTILITY AND FEEDER LINE PLANS FOR SUBGRADE

2 OVERHEAD POWERLINES WILL BE ADJUSTED TO NOT CONFLICT

5 TREE PROTECTION MUST BE INSTALLED AND APPROVED BY THE

CONSTRUCTION PERIOD. CONSTRUCTION ACTIVITIES AND

ARBORIST. ANY CHANGES TO OR DISASSEMBLY OF TREE PROTECTION FENCING WITHOUT PRIOR APPROVAL IS

6 ROOT PROTECTION ZONE INCLUDES ALL AREAS INSIDE THE TREE

APPENDIX B SHOULD BE GIVEN SPECIAL CARE AND ATTENTION

DESIGNATED AS PROTECTION ZONES, OUTSIDE OF FENCING, IN

PROTECTION AREAS UNLESS OTHERWISE APPROVED BY THE

10 ALL ROOTS OVER 2" IN DIAMETER THAT NEED TO BE CUT MUST

FIRST BE INSPECTED AND APPROVED BY THE PROJECT

11 POST HOLES SHALL BE ADJUSTED IF THEY COME IN CONTACT

12 ANY EXCAVATION WITHIN THE PROTECTION ZONE **SHALL** BE

13 ROOTS AND STUMPS OF TREES REMOVED FOR DEVELOPMENT

MONITORED AND REPORTED TO AND MANAGED BY THE PROJECT

PURPOSES **SHALL** BE REMOVED BY USE OF A STUMP GRINDER

AND THE PROJECT ARBORIST **SHALL** BE ONSITE TO MONITOR

WITH ROOTS 2" IN DIAMETER OR GREATER.

REQUIREMENTS WITH THE CONTRACTOR.

PROTECTION FENCING. ADDITIONALLY, AREAS SHOWN IN

FOR POTENTIAL ROOT INVOLVEMENT AND IMPACT. 7 ENTRANCE INTO THE FENCED ROOT PROTECTION ZONE IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE PROJECT

8 WHEN POSSIBLE HAND TOOLS **SHOULD** BE USED IN AREAS

ORDER TO REDUCE ROOT DAMAGE AND COMPACTION.

9 HAND TOOLS SHALL BE USED WITHIN ALL FENCED ROOT

CITY OF WILSONVILLE O PRIOR TO ANY SITE WORK AND MUST REMAIN IN GOOD CONDITION THROUGHOUT THE ENTIRE

NEEDED ACCESS THAT OCCUR INSIDE THE ROOT PROTECTION ZONE MUST BE APPROVED IN ADVANCE BY THE PROJECT

WITH CROWN OF HERITAGE OAK, TREE NUMBER 5541. 3 UNDERGROUND FEEDER LINES WILL BE BORED OR ADJUSTED TO NOT CONFLICT WITH ROOTS OF HERITAGE OAK, TREE NUMBER

WORK. SEE PLANTING AND IRRIGATION PLANS.

4 CONTRACTOR MUST ADHERE TO ALL CODES AND

REQUIREMENTS OF THE TREE PLAN.

KEYED NOTES

(1) OVERHEAD POWER LINES

(2) CRUSHED ROCK SUBSTATION YARD

(3) FACILITY FENCING

4 LOCATION OF PLANNED DETENTION POND.

5 UNDERGROUND FEEDER LINES.

6 SCREENING PLANTING, STREET TREES, IRRIGATION WILL NOT BE

7 TREE IMPACTS TO 5520 AND 5521, SEE PROTECTION DIRECTIVES IN

WITHIN ROOT PROTECTION ZONE, A NO-DIG AREA.

REMAIN.

LEGEND

+ + + + + + + + + + EXISTING GRAVEL SURFACE

(持法院本作品表現基金) CONCRETE

EXISTING TREE ——— — PROPERTY LINE

EXISTING TREE FOR REMOVAL

—— OHP —— OVERHEAD POWER

UTLITY LINE WITH TYPE CODE TREE PROTECTION FENCING

— — — — CANOPY DIAMETER

1 TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO ANY DEVELOPMENT ACTIVITIES, INCLUDING, BUT NOT LIMITED TO CLEARING, TREE PROTECTION SIGNAGE GRADING, EXCAVATION OR DEMOLITION WORK, AND SHALL BE REMOVED ONLY AFTER COMPLETION OF ALL CONSTRUCTION ACTIVITY, INCLUDING LANDSCAPING AND IRRIGATION INSTALLATION.

CHAIN LINK OR SIMILAR FENCING, A MINIMUM OF 6' _____ ROOT PROTECTION ZONE TALL, WITH STEEL POSTS PLACED NO FARTHER THAN EIGHT FEET APART SHALL BE INSTALLED AT THE EDGE OF THE TREE PROTECTION ZONE AND AT THE BOUNDARY OF ANY OPEN SPACE TRACTS OR CONSERVATION EASEMENTS THAT ABUT THE PARCEL BEING DEVELOPED.

THE FENCING SHALL BE FLUSH WITH THE INITIAL UNDISTURBED GRADE. 4 ATTACH APPROVED SIGNS, INCLUDED IN APPENDIX

C, TO THE CHAIN LINK FENCING. NO AUXILIARY CONSTRUCTION ACTIVITY SHALL OCCUR WITHIN THE ROOT PROTECTION ZONE. INCLUDING BUT NOT LIMITED TO: DUMPING OR STORAGE OF MATERIALS SUCH AS BUILDING SUPPLIES, SOIL, WASTE ITEMS, OR PARKED VEHICLES OR EQUIPMENT.

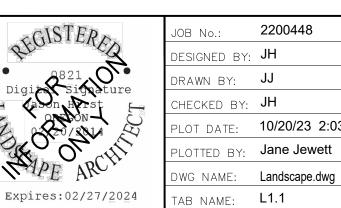
THE TREE PROTECTION ZONE SHALL REMAIN FREE OF CHEMICAL OR HAZARDOUS MATERIALS AND LIQUIDS SUCH AS PAINTS, THINNERS, CLEANING SOLUTIONS, PETROLEUM PRODUCTS AND CONCRETE OR DRYWALL EXCESS, CONSTRUCTION DEBRIS, OR RUN-OFF. WITHOUT EXCEPTION; NO EXCAVATION,

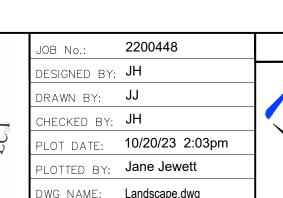
TRENCHING, GRADING, ROOT PRUNING OR SIMILAR ACTIVITY SHALL OCCUR WITHIN THE ROOT PROTECTION ZONE UNLESS DIRECTED BY AN ARBORIST PRESENT ON SITE OR APPROVED BY THE PROJECT ARBORIST.

TREE PROTECTION FENCING

Architecture

CHAINLINK-





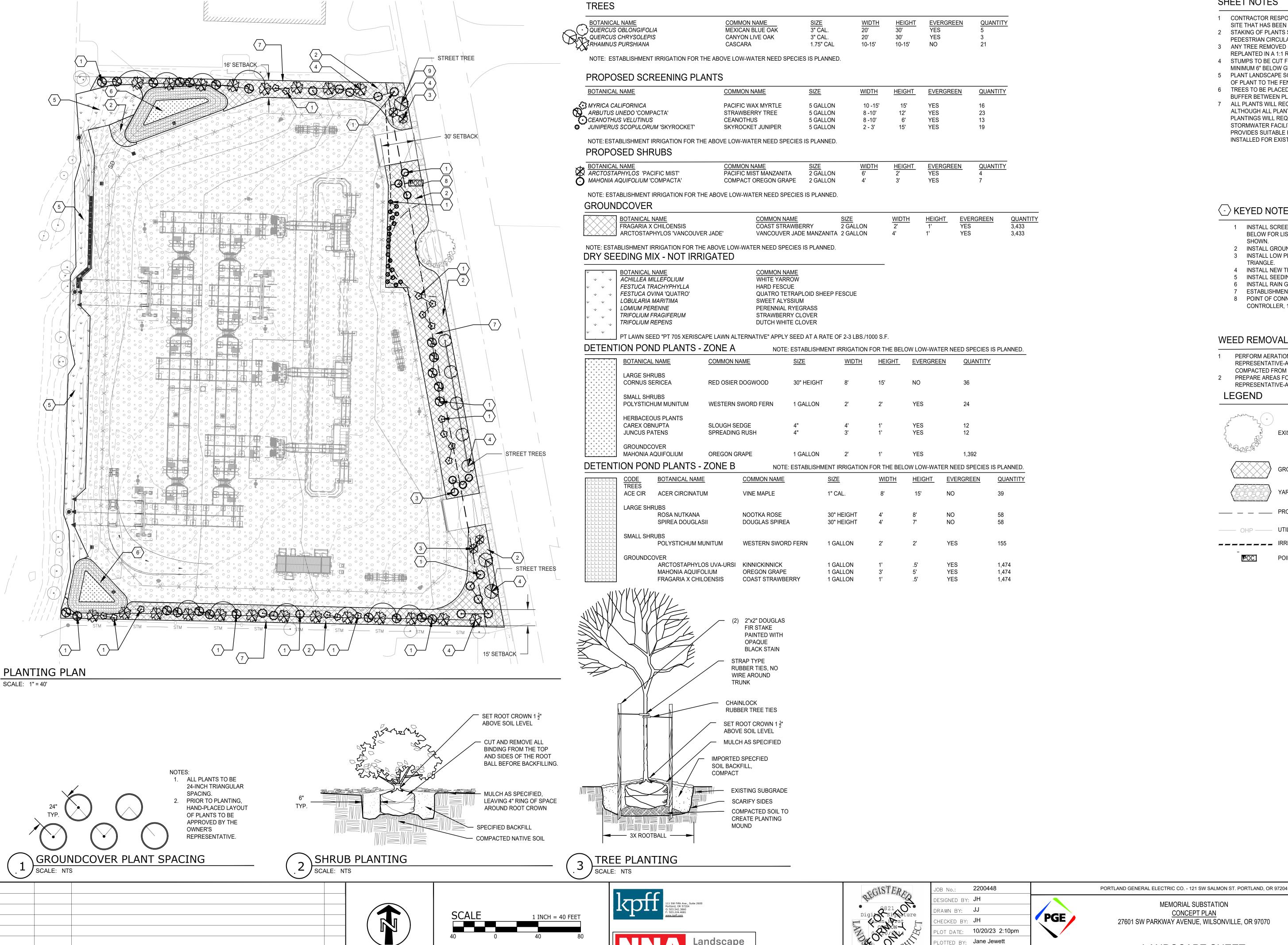
PGE

PORTLAND GENERAL ELECTRIC CO. - 121 SW SALMON ST. PORTLAND, OR 97204 MEMORIAL SUBSTATION CONCEPT PLAN 27601 SW PARKWAY AVENUE, WILSONVILLE, OR 97070

TREE SHEET

SHEET N

SHEET COUNT



DATE

DESCRIPTION

Architecture

SHEET NOTES

- 1 CONTRACTOR RESPONSIBLE TO RESEED AND ESTABLISH ANY AREA ON SITE THAT HAS BEEN IMPACTED BY CONSTRUCTION ACTIVITY.
- 2 STAKING OF PLANTS SHALL NOT INTERFERE WITH VEHICLE OR PEDESTRIAN CIRCULATION ROUTES.
- 3 ANY TREE REMOVED DURING THE COURSE OF CONSTRUCTION SHALL BE REPLANTED IN A 1:1 RATIO.
 - 4 STUMPS TO BE CUT FLUSH WITH GRADE AND TO BE GROUND TO A MINIMUM 6" BELOW GRADE. 5 PLANT LANDSCAPE SCREENING PLANTS A MINIMUM OF 10' FROM CENTER
 - OF PLANT TO THE FENCE, WHERE SPACE ALLOWS.
 - 6 TREES TO BE PLACED WHERE MATURE WIDTH WILL LEAVE AT LEAST 3' OF BUFFER BETWEEN PLANT AND FENCE.
 - 7 ALL PLANTS WILL REQUIRE TEMPORARY ESTABLISHMENT IRRIGATION, ALTHOUGH ALL PLANTS ARE LOW-WATER NEED. SCREENING AND ROW PLANTINGS WILL REQUIRE DIFFERENT IRRIGATION METHODS THAN THE STORMWATER FACILITY AND A SYSTEM WILL BE DESIGNED THAT PROVIDES SUITABLE RESOURCES FOR BOTH. NO NEW IRRIGATION WILL B

INSTALLED FOR EXISTING PLANTINGS, INCLUDING THE HERITAGE OAK.

⟨-⟩ KEYED NOTES

- 1 INSTALL SCREENING PLANTS. SEE PROPOSED SCREENING PLANTS BELOW FOR LIST OF PLANT MATERIAL TO BE USED. SPACE AS
- INSTALL GROUNDCOVER PLANTS.
- INSTALL LOW PLANTS TO INFILL SCREENING AREA IN SIGHT TRIANGLE.
- INSTALL NEW TREE.
- INSTALL SEEDING.
- INSTALL RAIN GARDEN PLANTING.
- ESTABLISHMENT IRRIGATION FOR NEW PLANTINGS 8 POINT OF CONNECTION FOR IRRIGATION SYSTEM, VALVE,
- CONTROLLER, 1" MAINLINE.

WEED REMOVAL NOTES

1 PERFORM AERATION AND/OR OTHER OWNER'S REPRESENTATIVE-APPROVED SOIL IMPROVEMENT WHERE SOIL IS COMPACTED FROM CONSTRUCTION. 2 PREPARE AREAS FOR WEED REMOVAL WITH AN OWNER'S

REPRESENTATIVE-APPROVED HERBICIDE.

LEGEND



EXISTING TREE



GROUNDCOVER - SEE GROUNDCOVER PLANT LIST

YARD SURFACING

____ PROPERTY LINE UTILITY LINE WITH TYPE CODE

____ IRRIGATION MAIN LINE

POINT OF CONNECTION

MEMORIAL SUBSTATION CONCEPT PLAN 27601 SW PARKWAY AVENUE, WILSONVILLE, OR 97070

LANDSCAPE SHEET

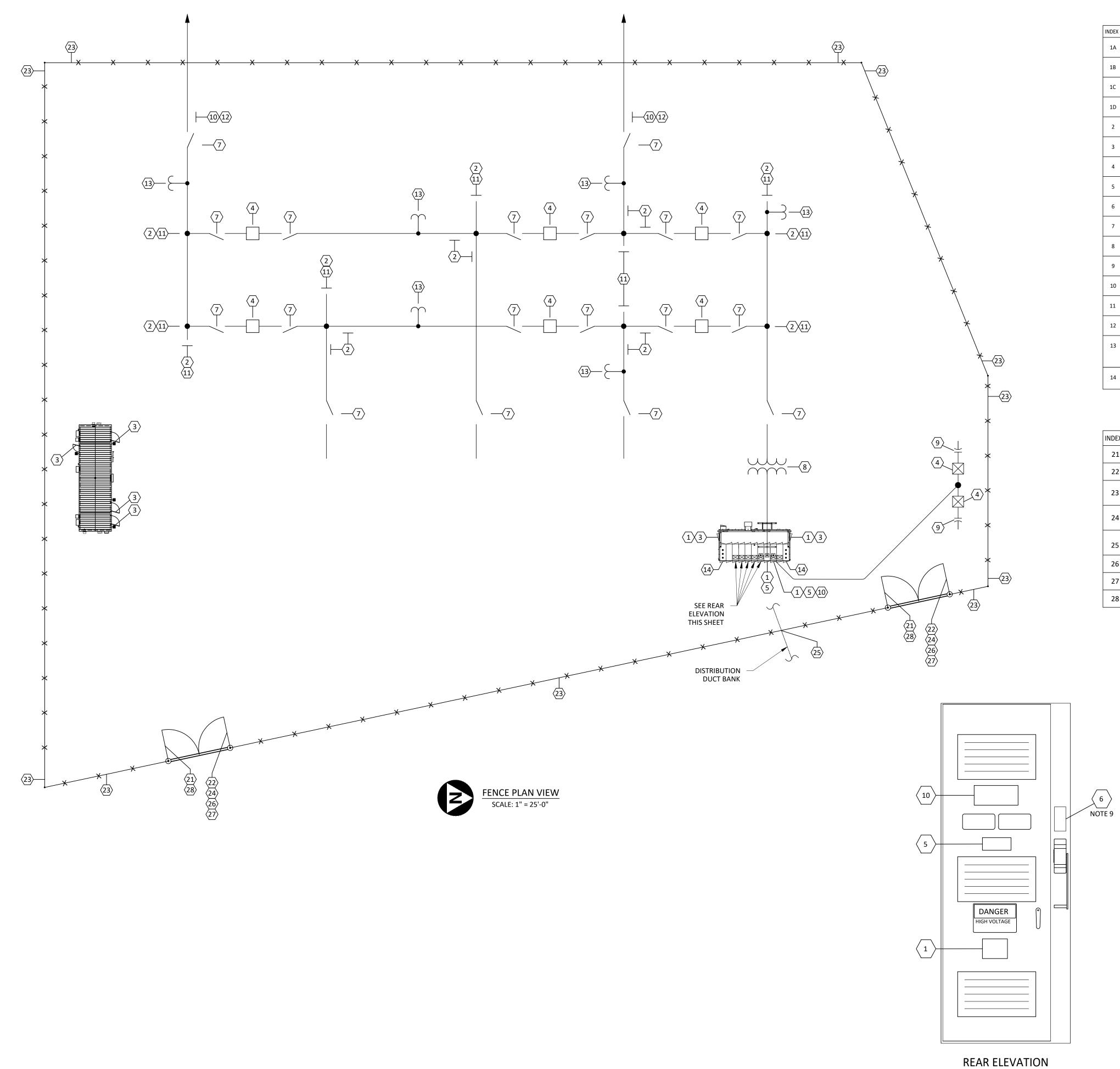
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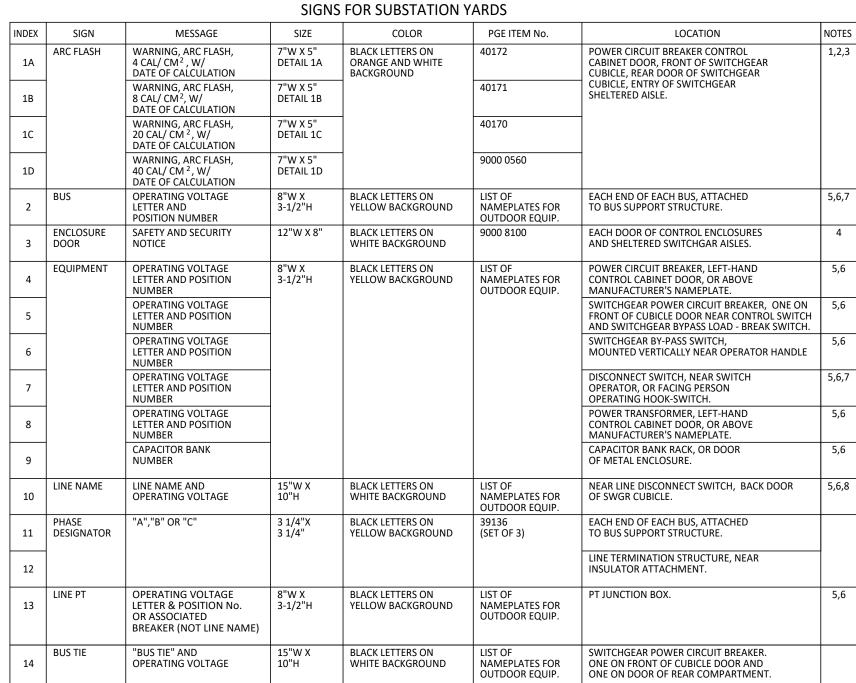
AB NAME: L1.2

Expires: 02/27/2024

SHEET N

SHEET COUNT





SIGNS FOR FENCE AND GATES

| SIGNS FOR FERGE AND GATES | | | | | |
|---------------------------|--------------------------|---------------------------|--------------|---|-------|
| INDEX | SIGN | SIZE | PGE ITEM No. | LOCATION | NOTES |
| 21 | SUBSTATION
NAME | 24"W X 12"H
DETAIL 1 | 9000 6787 | MAIN GATE, LEFT HAND PANEL WHEN FACING SUBSTATION. | 10,11 |
| 22 | HAZARDOUS
VOLTAGE, | 20"W X 32"H
DETAIL 2,3 | 9000 6481 | ALL GATES, RIGHT HAND PANEL WHEN FACING SUBSTATION. | 10,11 |
| 23 | DUAL
LANGUAGE | | | PERIMETER FENCE AT 40' INTERVALS, NOT MORE THAN 20' FROM ANY FENCE CORNER, AT LEAST ONE SIGN PER STRAIGHT SEGMENT OF FENCE. | 10,11 |
| 24 | ARC FLASH
HAZARD | 10"W X 10"H
DETAIL 4 | 40173 | MAIN GATE, RIGHT HAND PANEL WHEN FACING SUBSTATION, TO RIGHT OF HAZARDOUS VOLTAGE SIGN. | 10,11 |
| 25 | BURIED
CABLE,
13KV | 12"W X 8"H
DETAIL 5 | 40158 | PERIMETER FENCE WHERE BURIED DISTRIBUTION CABLES CROSS SUBSTATION FENCE. | 10,11 |
| 26 | NO PARKING | 18"W X 12"H
DETAIL 6 | 9000 6786 | ALL DRIVE GATES, RIGHT HAND PANEL WHEN FACING SUBSTATION. | 10,11 |
| 27 | FIRE
MARSHAL | 18"W X 12"H
DETAIL 7 | 9000 8098 | ALL DRIVE GATES, RIGHT HAND PANEL. | 10,11 |
| 28 | ADDRESS
NUMBERS | 24"W X 8"H
DETAIL 8 | | MAIN GATE. LEFT HAND PANEL. | 10,11 |

NOTES

SCALE: NONE

- ARC FLASH RATINGS TO BE DETERMINED FROM SUBSTATION OPERATING ONE-LINE DIAGRAM. FOR EQUIPMENT WITH ARC FLASH RATING OF 1.2 CAL/CM², USE 4 CAL/CM² SIGN.
- 2. SEE DRAWING MSTR-9800.02 FOR ARC FLASH SIGNAGE ON SUBSTATION GATE.
- 3. REFERENCE STANDARD S-139-10 FOR ARC FLASH LABELS.
- 4. 90 MIL FIBERGLASS.
- 5. ALL CAPITAL LETTERS, CENTER JUSTIFIED.
- 6. ENGRAVED LAMINATE.
- 7. INSTALL USING BACKING PLATE TYPE II. SEE DETAIL 13 ON 9800.02.
- 8. INSTALL USING BACKING PLATE TYPE I. SEE DETAIL 12 ON 9800.02.
- 9. NAMEPLATE TO BE MOUNTED ABOVE BY-PASS SWITCH AT A 90 DEGREE ANGLE.

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- 10. INSTALL APPROXIMATELY 5 FEET ABOVE FINISHED GRADE.
- 11. INSTALL USING HOG RING STAPLES (MALCO HRA5 OR EQUAL).

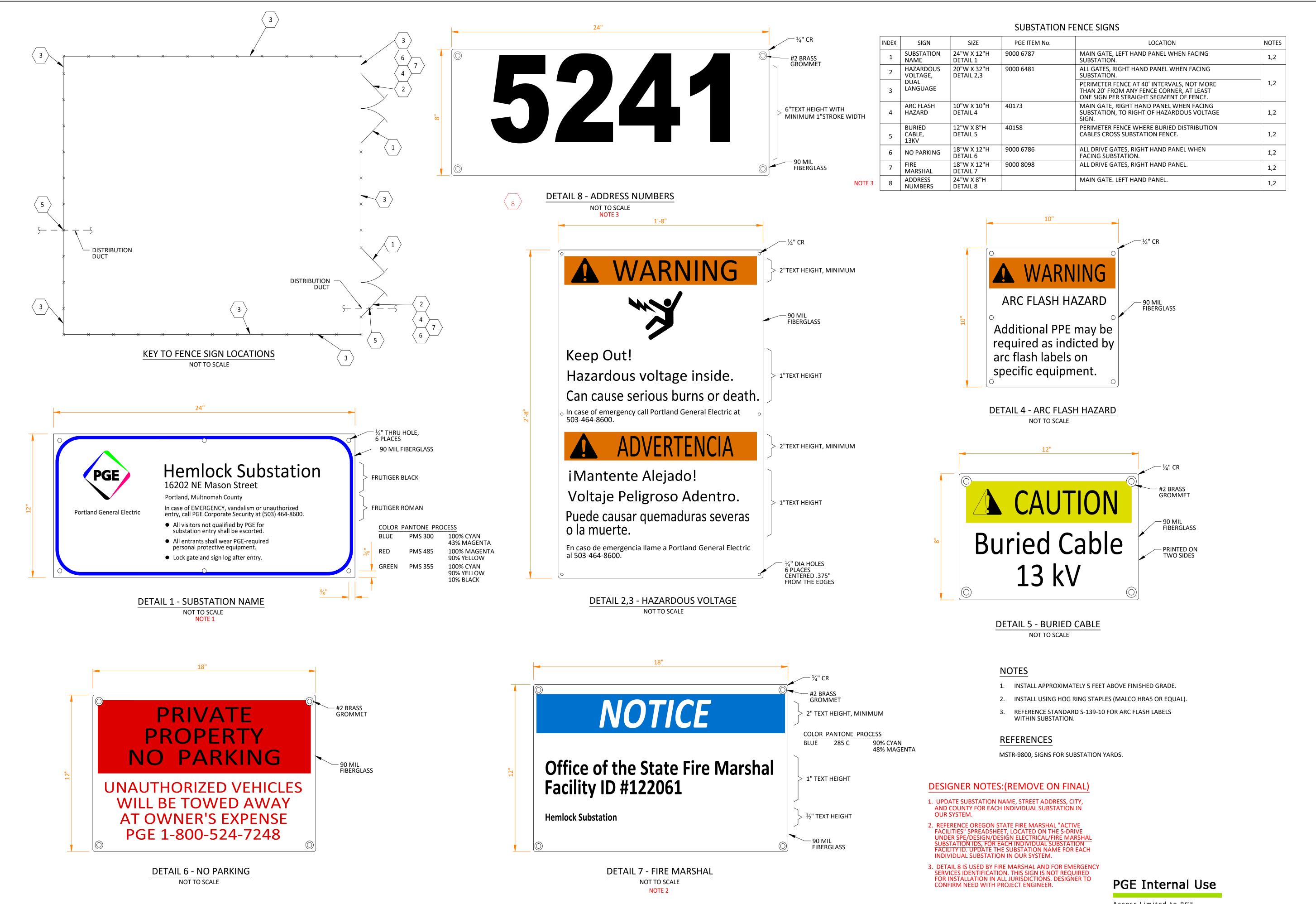
PGE Internal Use

30% II
NOT F

05/10/2023
30% IFCR
NOT FOR
CONSTRUCTION

TMRL-16C

EMORIAL SUBSTATION SUBSTATION SIGNS



CLARIFIED ADDRESS FORMAT & ADDED MESSAGE TO DETAIL 1, REPLACED ADDED DESIGNER NOTES & FIXED PHONE NUMBERS ON DETAIL 2, 3.
ADDED DETAIL 8 & ASSOCIATED DESIGNER NOTE.

DESIGN MASTER SUBSTATION SIGNS SIGNS FOR FENCES

STR-

S

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