East Link Extension: Systems Structures Light Rail Review Panel – 60% Design

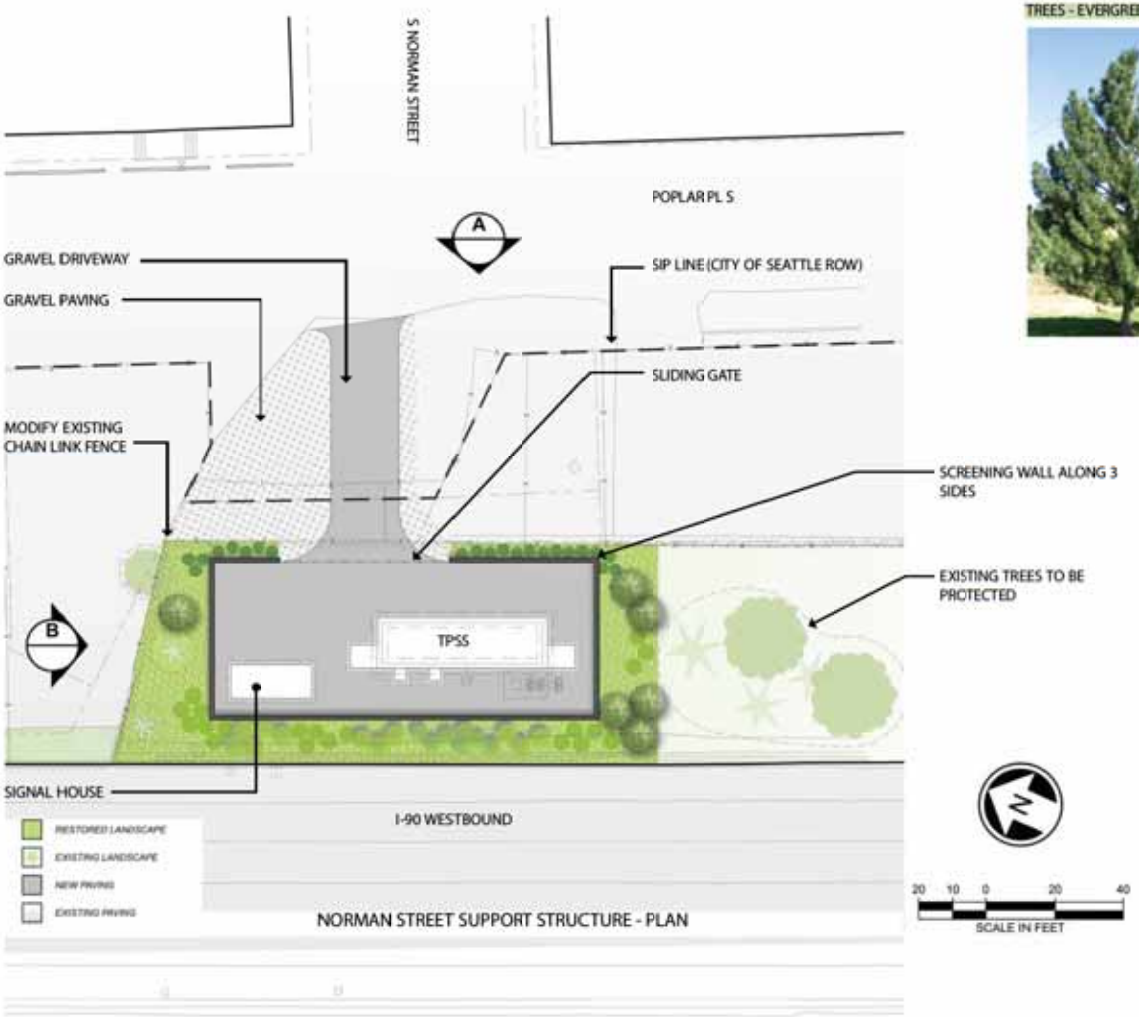
September 4, 2014

Agenda

- Introduction, *Cynthia Padilla, ST*
- East Link Systems Structures – Seattle
  - Systems Structures — *Paul Bennett, ST*; *Audrey West, NAKANO/PB*
  - STart — *Barbara Luecke, ST*
- Questions and Comments
- Conclusions and Next Steps

Systems Structures

Support Structures and Screening



TREES - EVERGREEN

AUSTRIAN PINE
Pinus nigra

SHRUBS

DARWIN BARBERRY
Berberis darwinii

PACIFIC WAX MYRTLE
Myrica californica

SALAL
Gaultheria shallon

WILD LILAC
Ceanothus thyrsiflorus 'Skylark'

GROUNDCOVERS

CREEPING MAHONIA
Mahonia repens

BRAMBLE
Rubus calcinoides

KINNIKINNICK
Arctostaphylos uva-ursi

WINTERCREEPER
Euonymus fortunei coloratus

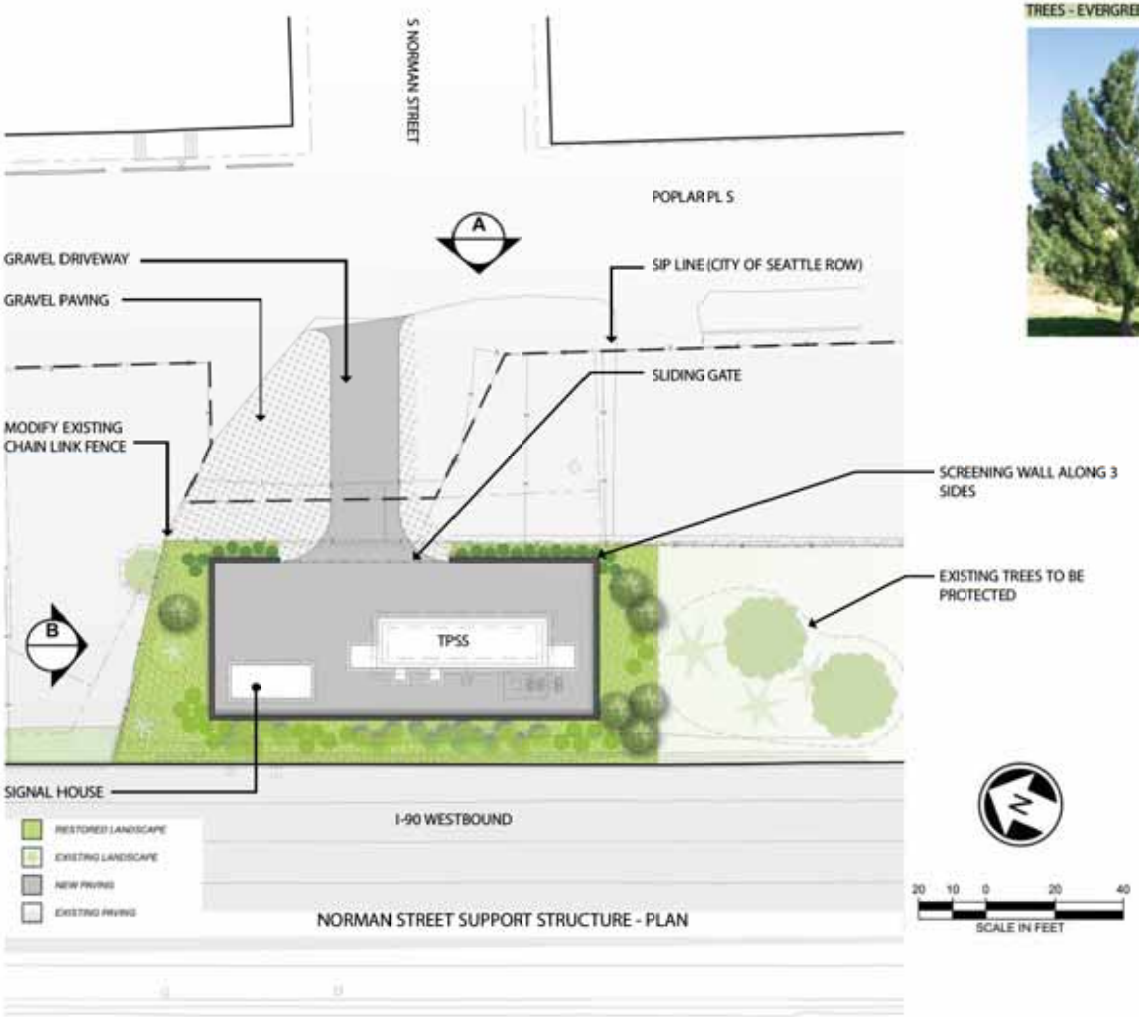
NORMAN STREET SUPPORT STRUCTURE - AERIAL VIEW

NORMAN STREET SUPPORT STRUCTURE - LOOKING WEST

NORMAN STREET SUPPORT STRUCTURE - EXISTING CONDITIONS

NORMAN STREET SUPPORT STRUCTURE - LOOKING WEST

NORMAN STREET SUPPORT STRUCTURE - EXISTING CONDITIONS



TREES - EVERGREEN

AUSTRIAN PINE
Pinus nigra

SHRUBS

DARWIN BARBERRY
Berberis darwinii

PACIFIC WAX MYRTLE
Myrica californica

SALAL
Gaultheria shallon

WILD LILAC
Ceanothus thyrsiflorus 'Skylark'

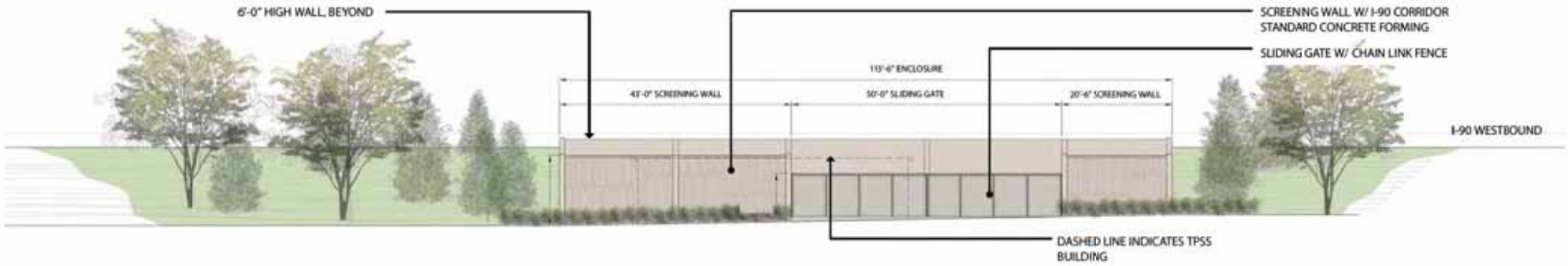
GROUNDCOVERS

CREEPING MAHONIA
Mahonia repens

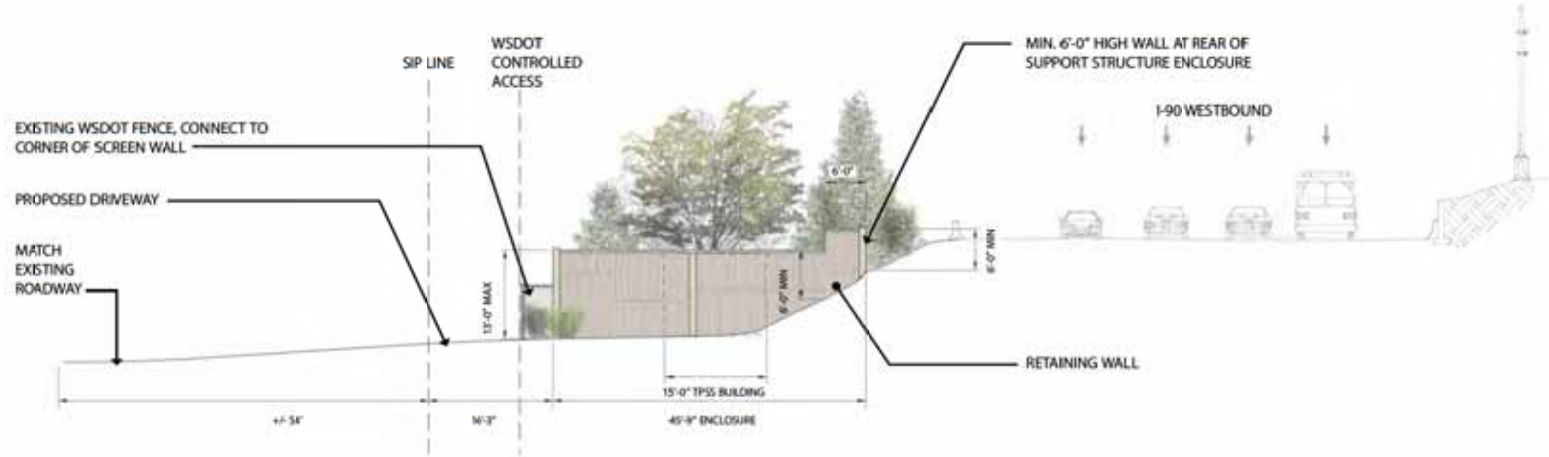
BRAMBLE
Rubus calcinoides

KINNIKINNICK
Arctostaphylos uva-ursi

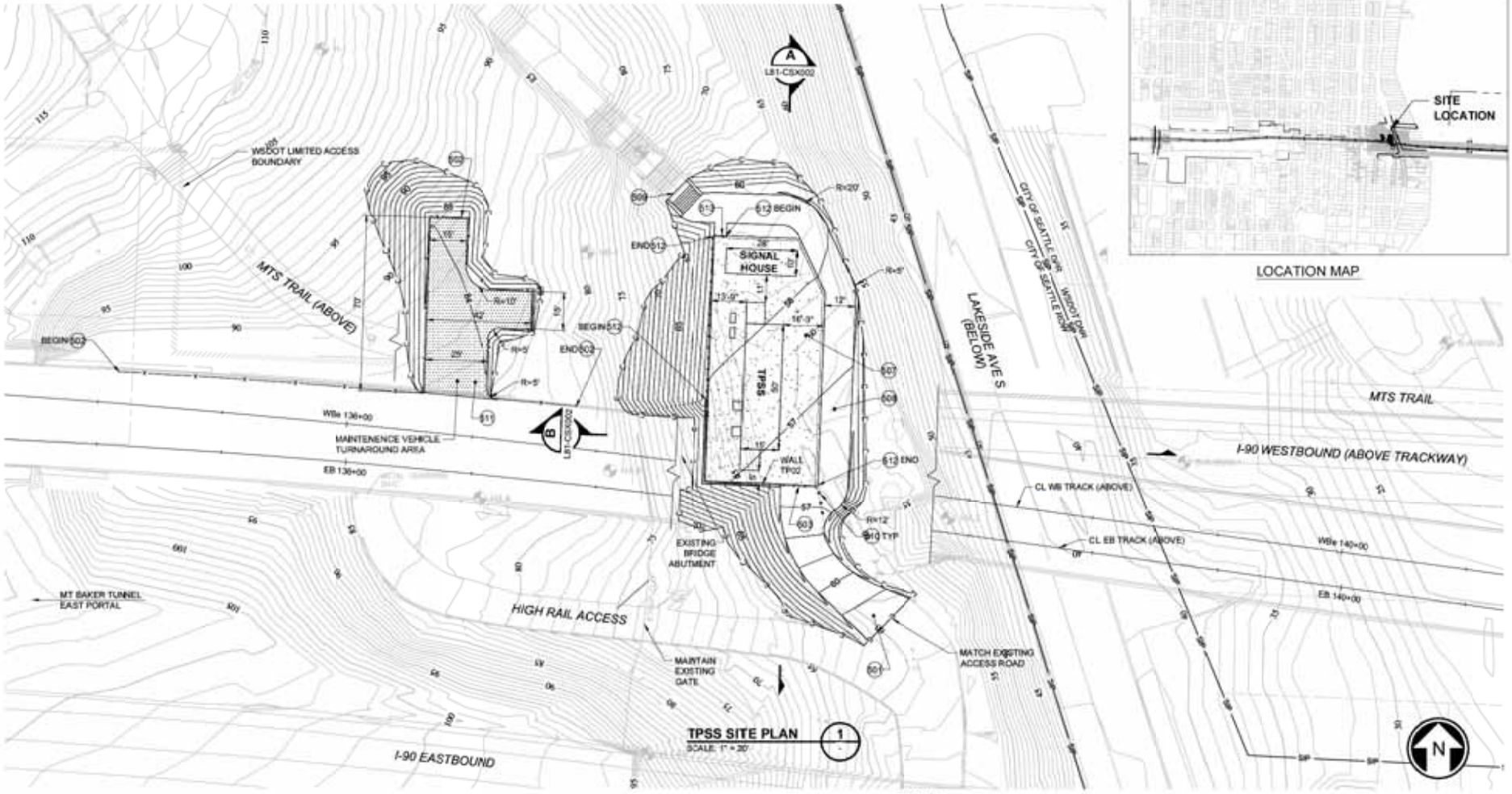
WINTERCREEPER
Euonymus fortunei coloratus



(A) NORMAN STREET SUPPORT STRUCTURE - EAST ELEVATION



(B) NORMAN STREET SUPPORT STRUCTURE - NORTH ELEVATION



TPSS SITE PLAN 1
SCALE: 1" = 20'

CONSTRUCTION NOTES:

501 CONSTRUCT HMA DRIVEWAY PER SECTION ON SHEET CTD004 AND PLAN AND PROFILE ON SHEET CGP402

502 INSTALL 6' FENCING PER DETAIL ON SHEET CTD019

503 INSTALL 14' AUTO GATE PER DETAIL ON SHEET LSD003

507 CONSTRUCT 6" GRAVEL SURFACING PER DETAIL ON SHEET CTD004

508 CONSTRUCT 12' HMA PATH PER SECTION ON SHEET CTD004

CONSTRUCTION NOTES (CONTINUED):

509 CONSTRUCT STAIRWAY EXTENSION PER DETAILS ON SHEETS CTD027 AND CTD028

510 CONSTRUCT FIXED BOLLARDS (3) PER DETAILS ON SHEET CTD028

511 CONSTRUCT HMA TURNAROUND PER SECTION ON SHEET CTD004

512 CONSTRUCT SCREENING FENCE PER DETAIL ON SHEET LSD003

513 CONSTRUCT PEDESTRIAN GATE PER DETAIL ON SHEET LSD003

NOTES:

1. SEE SYSTEMS AND STRUCTURAL DRAWINGS FOR TPSS AND SIGNAL HOUSE DETAILS
2. SEE SYSTEMS DRAWINGS FOR CONDUIT ROUTING AND GROUNDING GRID LOCATIONS
3. SEE LANDSCAPE DRAWINGS FOR SITE RESTORATION AND ADDITIONAL SCREENING
4. SEE STRUCTURAL DRAWINGS FOR TPSS FOUNDATION DETAILS
5. SEE SHEET CSD002 FOR UTILITY / DRAINAGE RELOCATIONS AND ADDITIONS
6. SEE SHEET CGP302 FOR WALL TP02 PLAN AND PROFILE

20 10 0 20 40
SCALE IN FEET

SOUNDTRANSIT

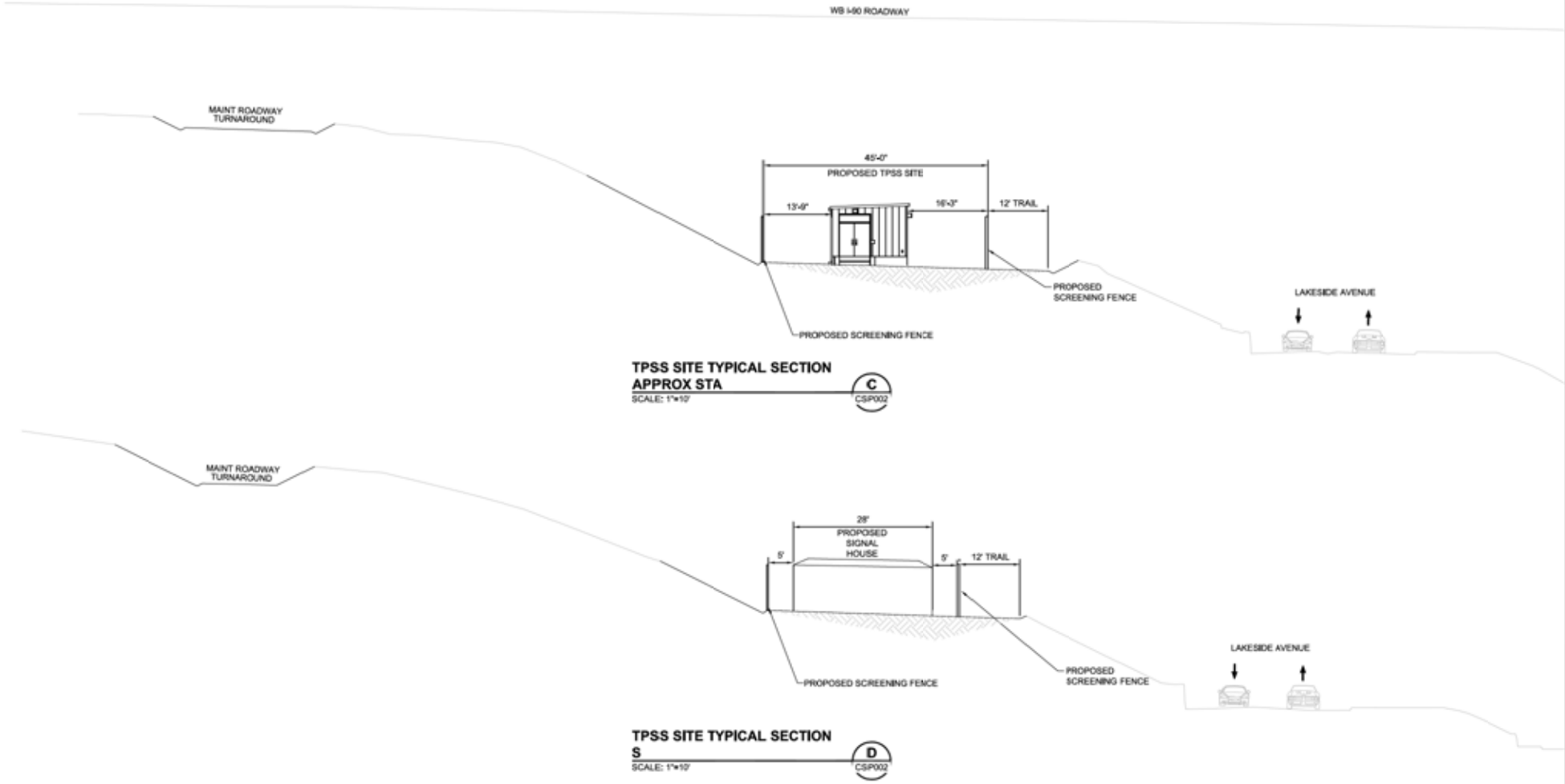
ST DRAWING NO.	REVIEWED BY SPU/WATER ENGINEERING 20	NAME OR INITIALS AND DATE	INITIALS AND DATE
ST CONTRACT NAME	REVIEWED BY SPU/DRAINAGE 20	DESIGNED PB 1/10	REVIEWED
DPD PROJECT NO.	APPROVED BY SDOT STREET IMPROVEMENT PERMITTING 20	CHECKED PB 10/05	PROJECT MANAGER
		DRAWN A. BYERS	
		CHECKED PB	
		DESIGN REVIEW K. XXXXXX	REVISED AS-BUILT

City of Seattle
Seattle Department of Transportation

SCALE: NTS INSPECTOR'S BOOK

TPSS#2 SITE PLAN

SDOT PROJECT NO.
WALL PLAN NO.
WALL SERIAL NO.
SHEET NO.



TPSS SITE TYPICAL SECTION
APPROX STA
SCALE: 1"=10'

C
CSP002

TPSS SITE TYPICAL SECTION
S
SCALE: 1"=10'

D
CSP002

60% SUBMITTAL

No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY: J. GUERRERO
DRAWN BY: M. SANCHEZ
CHECKED BY: Y. JIANG
APPROVED BY: T. MUDAYANKAVIL

PARSONS BRINCKERHOFF

SUBMITTED BY:
DATE: 07/11/14

DAVID EVANS AND ASSOCIATES INC.
BOLIMA DRAFTING & DESIGN INC

REVIEWED BY:
DATE: 07/11/14

LINE IS 1" AT FULL SCALE

SOUNDTRANSIT

SCALE: AS NOTED
FILENAME:
CONTRACT ID#: E130
DATE: 07/11/2014

LINK LIGHT RAIL
CONTRACT E130
SEATTLE/I-90 to SOUTH BELLEVUE

CIVIL
TPSS SITE SECTIONS

DRAWING No.: L81-CSX002
LOCATION No.: L81
SHEET No.: 455
REV#:

MT. BAKER SUPPORT STRUCTURE - EXISTING CONDITIONS

MT. BAKER SUPPORT STRUCTURE - AERIAL VIEW

(A) MT. BAKER SUPPORT STRUCTURE - VIEW LOOKING SOUTH

(B) MT. BAKER SUPPORT STRUCTURE - VIEW LOOKING SOUTH

(C) MT. BAKER SUPPORT STRUCTURE - VIEW LOOKING NORTH

(D) MT. BAKER SUPPORT STRUCTURE - VIEW LOOKING NORTH

(E) MT. BAKER SUPPORT STRUCTURE - VIEW LOOKING NORTH

MT BAKER SUPPORT STRUCTURE - PLAN

TREES - EVERGREEN

AUSTRIAN PINE
Pinus nigra

EXCELSA CEDAR
Thuja plicata 'Excelsa'

TREES - DECIDUOUS

VINE MAPLE
Acer circinatum

VENUS DOGWOOD
Cornus kousa x nuttallii 'Venus'

SHRUBS

EVERGREEN HUCKLEBERRY
Vaccinium ovatum

RED FLOWERING CURRANT
Ribes sanguineum

SERVICEBERRY
Amelanchier alnifolia

OREGON GRAPE
Mahonia aquifolium

PACIFIC WAX MYRTLE
Myrica californica

NORTH UMPQUA KALMIOPSIS
Kalmiopsis leachiana 'lepiniec form

GROUNDCOVERS

CREEPING MAHONIA
Mahonia repens

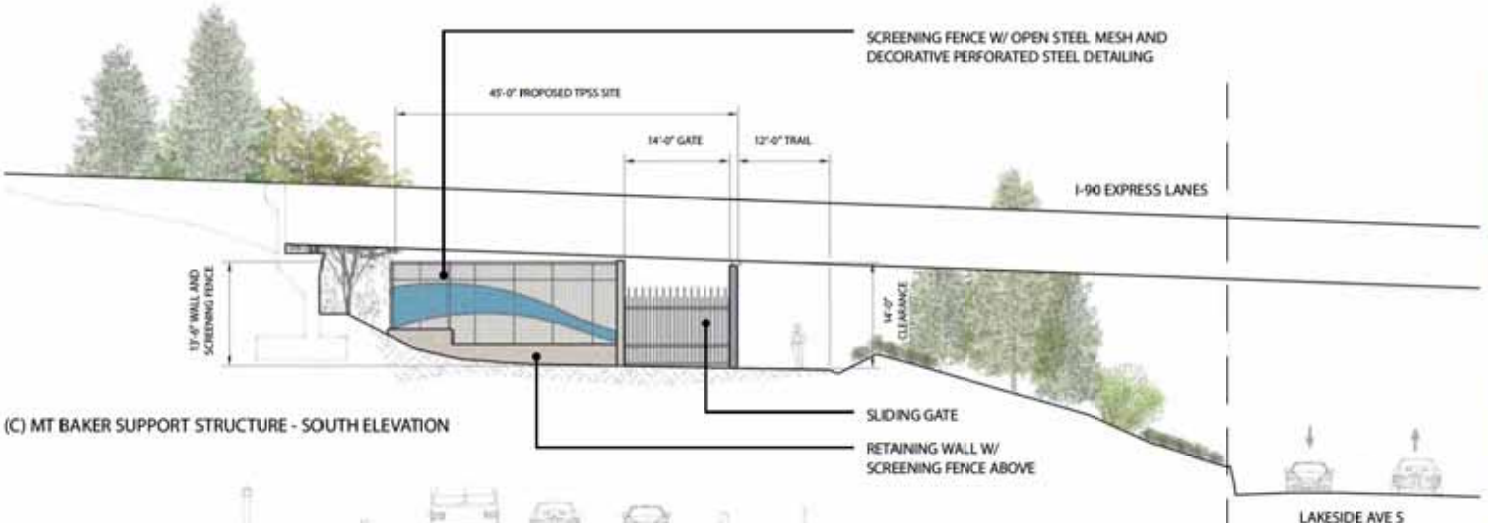
OREGON FALSEBOX
Paxistima myrsinites

SALAL
Gaultheria shallon

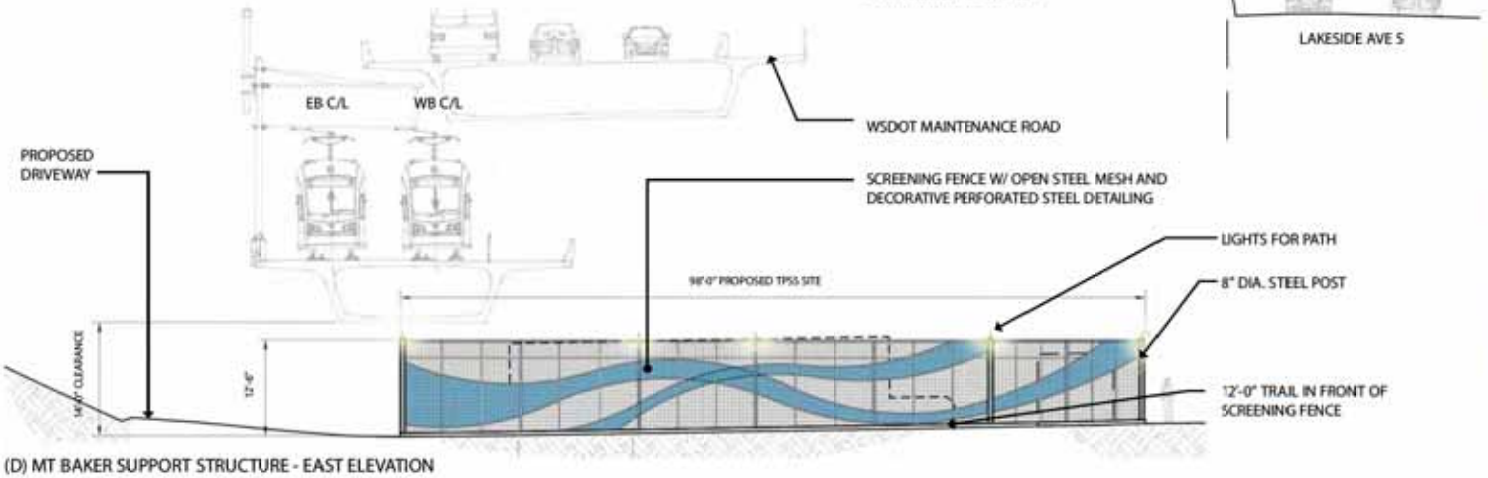
KINNIKINNICK
Arctostaphylos uva-ursi

WESTERN WILD GINGER
Asarum caudatum

SWORD FERN
Polystichum munitum



(C) MT BAKER SUPPORT STRUCTURE - SOUTH ELEVATION



(D) MT BAKER SUPPORT STRUCTURE - EAST ELEVATION

MT BAKER SUPPORT STRUCTURE - VIEW LOOKING NORTH

MT BAKER SUPPORT STRUCTURE - VIEW @ CORNER

MT BAKER SUPPORT STRUCTURE - VIEW LOOKING SOUTH

Questions and Comments: Systems Structures

Rainier Station – 60% Design