

Section 2 – Respondent's Information

Central Puget Sound Regional Transportation Authority ("Sound Transit")

Respondent

401 South Jackson Street

Street Address

Seattle, WA 98104-2826

City, State and Zip Code

Mailing Address, if different than the street address

Jodi Mitchell

Contact Person Name

206-398-5080; Jodi.Mitchell@SoundTransit.org

Contact Phone Number and E-mail Address

Section 3 – Current Crossing Information

1. Railroad company(ies) _____
• Tracks owned by: Sound Transit
• Operating railroad: Tacoma Rail, BNSF
2. Type of railroad at crossing Common Carrier Logging Industrial
 Passenger Excursion
3. Type of tracks at crossing Main Line, number of tracks 1
 Siding or Spur, number of tracks _____
4. Average daily train traffic, freight 2 per day (trains typically operate 4-5 days/week, max.)
Authorized freight train speed 10 mph Operated freight train speed 10 mph
5. Average daily train traffic, passenger 0
Authorized passenger train speed N/A Operated passenger train speed N/A
6. Describe current crossing configuration including type of train detection, active warning devices, preemption, etc.:
There is currently a single track crossing with gates and cantilever-mounted flashing lights.

The existing detection circuitry is either motions sensors or constant warning time.

There are no existing medians.

Section 4 – Expected Crossing Characteristics After Modification

1. Type of railroad operations at crossing Common Carrier Logging Industrial

Passenger Excursion

2. Type of tracks at crossing Main Line, number of tracks 2

Siding or Spur, number of tracks _____

3. Average daily train traffic, freight 2

Authorized freight train speed 40 mph Operated freight train speed 40 mph

4. Average daily train traffic, passenger 24

Authorized passenger train speed 79 mph Operated passenger train speed 79 mph

5. Will the modified crossing eliminate the need for one or more existing crossings?

Yes _____ No X

6. If so, state the distance and direction from the modified crossing.

7. Does the petitioner propose to close any existing crossings and if yes, which crossings?

Yes _____ No X

Section 5 – Proposed Temporary Crossing

1. Will a temporary crossing be installed? Yes ____ No X

2. If so, describe the purpose of the crossing and the estimated time it will be needed

3. Will the petitioner remove the crossing at completion of the activity requiring the temporary crossing? Yes ____ No ____ N/A

Approximate date of removal _____

Section 6 – Current Highway Traffic Information

1. Name of roadway/highway Steilacoom Blvd SW

2. Roadway classification Secondary Arterial
 City of Lakewood

3. Road authority _____

4. Average annual daily traffic (AADT) 20,170 (in year 2006)

5. Number of lanes 2WB lanes, 2EB lanes, plus single Two Way Left Turn Lane

6. Roadway speed 35mph

7. Is the crossing part of an established truck route? Yes ____ No X

8. If so, trucks are what percent of total daily traffic? 2.3% (PM peak)

9. Is the crossing part of an established school bus route? Yes X No ____

10. If so, how many school buses travel over the crossing each day? 44

11. Describe any changes to the information in 1 through 7, above, expected within ten years:
AADT estimated to grow to 27,640 (in year 2020); as part of the project, a new median will be installed on east side of crossing, C-curb will be installed on west side of crossing. The median and C-curb will discourage motorists from evading the crossing gates.

Section 7 – Alternatives to the Proposed Modifications

1. Does a safer location for a crossing exist within a reasonable distance of the current or proposed location? Yes No

2. If a safer location exists, explain why the crossing should not be located at that site.

3. Are there any hillsides, embankments, buildings, trees, railroad loading platforms or other barriers in the vicinity which may obstruct a motorist's view of the crossing?

Yes No

4. If a barrier exists, describe:

- ◆ Whether petitioner can relocate the crossing to avoid the obstruction and if not, why not.
- ◆ How the barrier can be removed.
- ◆ How the petitioner or another party can mitigate the hazard caused by the barrier.

Views are obstructed by buildings in 2 quadrants and a cemetery in the third quadrant.

It is infeasible to relocate the buildings or structures, and the existing street grid cannot accommodate a crossing at another location. The barriers to sight lines will be addressed with active warning devices (gates and cantilever mounted flashing lights), as well as revised advance pre-emption timing at the intersection of Steilacoom Blvd and Lakeview Ave. Also, medians will be installed east of the crossing and C-curb installed west of the crossing to discourage risky/illegal motorist behavior.

5. Is it feasible to construct an over-crossing or under-crossing at the proposed location as an alternative to an at-grade crossing?

Yes No

6. If an over-crossing or under-crossing is not feasible, explain why.

The existing site has multiple businesses near the crossing, as well as nearby roadway intersections. The grades required for the roadway approaches would not meet AASHTO guidelines for vertical curvature unless the street grid in this area were significantly reconfigured.

7. Does the railway line, at any point in the vicinity of the modified crossing, pass over a fill area or trestle or through a cut where it is feasible to construct an over-crossing or an under-crossing, even though it may be necessary to relocate a portion of the roadway to reach that point?

Yes No

8. If such a location exists, state:

- ◆ The distance and direction from the proposed crossing.
- ◆ The approximate cost of construction.
- ◆ Any reasons that exist to prevent locating the crossing at this site.

9. Is there an existing public or private crossing in the vicinity of the proposed modified crossing?

Yes No

10. If a crossing exists, state:

- ◆ The distance and direction from the proposed crossing.
- ◆ Whether it is feasible to divert traffic from the proposed to the existing crossing.

Section 8 – Sight Distance

1. Complete the following table, describing the sight distance for motorists when approaching the tracks from either direction after modification. “Number of feet from proposed crossing” is measured from the centerline of track along the centerline of the outside lane. Sight distance is measured from the edge of traveled way (edge of fog line or curb line) along the CL of track at the crossing. NOTE - for “Left” sight distances, the edge of traveled way is on the opposite side of the roadway.

a. Approaching the crossing from WEST, the current approach provides an unobstructed view as follows: (North, South, East, West)

Direction of sight (left or right)	Number of feet from proposed crossing	Provides an unobstructed view for how many feet
Right	300	50
Right	200	50
Right	100	60
Right	50	100
Right	25	95
Left	300	20
Left	200	25
Left	100	35
Left	50	70
Left	25	285

b. Approaching the crossing from EAST, the current approach provides an unobstructed view as follows: (Opposite direction-North, South, East, West)

Direction of sight (left or right)	Number of feet from proposed crossing	Provides an unobstructed view for how many feet
Right	300	50
Right	200	55
Right	100	100
Right	50	205
Right	25	95
Left	300	65
Left	200	75
Left	100	100
Left	50	180
Left	25	435

2. Will the modified crossing provide a level approach measuring 25 feet from the center of the railway on both approaches to the crossing?

Yes No X (Revised grade approach from west will be approximately 0.48% upward toward the crossing; approaching from east will be nearly level: 0.19%)

3. If not, state in feet the length of level grade from the center of the railway on both approaches to the crossing. _____

4. Will the modified crossing provide an approach grade of not more than five percent prior to the level grade?

Yes X No

3. If not, state the percentage of grade prior to the level grade and explain why the grade exceeds five percent.

Section 9 – Illustration of Modified Crossing Configuration

Attach a detailed diagram, drawing, map or other illustration showing the following:

- ◆ The vicinity of the modified crossing.
- ◆ Layout of the railway and highway 500 feet adjacent to the crossing in all directions.
- ◆ Percent of grade.
- ◆ Obstructions of view as described in Section 7 or identified in Section 8.
- ◆ Traffic control layout showing the location of the existing and proposed signage.

Existing features (buildings, trees, etc) that are obstructions are shown on the accompanying plan in “screened” or “grayscale” lines.

Section 10 – Proposed Warning Signals or Devices

1. Explain in detail the number and type of proposed automatic signals or other warning devices planned at the crossing, including a cost estimate for each. If the proposed modifications include adding or modifying preemption, contact UTC for the additional worksheets.

Modifications to the existing warning devices include relocating the existing cantilever and gate on the east side of the tracks. The cantilever and gate will be relocated approximately 15' eastward to accommodate the construction of a new second main track. (The new second track will be located approximately 15' east of the existing single track). The existing cantilever and gate are in good condition, appear to have been installed relatively recently, and are suitable for the proposed lane and median configuration.

The cantilever and gate on the west side of the tracks will remain in place. They are in good condition and are suitable for the proposed lane configuration.

The control equipment for the railroad warning devices will be upgraded to modern constant warning time units, replacing the existing bungalow and hardware. The new circuitry will allow for additional advanced pre-emption time. The interconnection between the grade crossing control equipment and the roadway signal traffic controller will be upgraded to a 6-wire supervisory configuration. The roadway authority can use 2 or 6 of these wires, depending upon their interconnection wiring preferences.

There will be an activated blank-out sign with the message or symbol "No Right Turn" at the intersection of Steilacoom Blvd SW and Lakeview Ave SW, visible to northbound motorists on Lakeview Ave SW. During railroad pre-emption of the traffic signal at this intersection, the blank-out sign will illuminate, thus discouraging northbound motorists on Lakeview Avenue from turning right (eastbound) onto Steilacoom.

The approximate cost for crossing signal improvements at Steilacoom Blvd SW is \$350,000.

Section 12 – Additional Information

Provide any additional information supporting the proposal, including information such as the public benefits that would be derived from modifying the crossing as proposed.

New concrete crossing panels will be installed on both tracks, and the roadway repaved to match the elevation of the panels.

Of the two tracks to be constructed through the crossing (one on the current alignment, and one new track), only one of the tracks will be in service in the near future. The other track will be a “stub,” constructed at the same time as the first track in order to avoid multiple construction disruptions to the community. The ends of the stub will be connected with through tracks at a later date.

Section 13 – Waiver of Hearing by Respondent

Waiver of Hearing

The undersigned represents the Respondent in the petition to modify a highway-railroad grade crossing.

We have investigated the conditions at the crossing proposed for modification. We are satisfied the conditions are the same as described by the Petitioner in this docket. We agree the crossing be modified and consent to a decision by the commission without a hearing.

Dated at _____, Washington, on the _____ day of _____, 20 ____.

Printed name of Respondent

Signature of Respondent's Representative

Title

Phone number and e-mail address

Mailing address

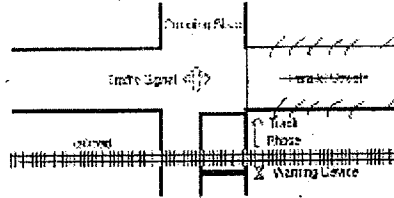
GUIDE FOR DETERMINING TIME REQUIREMENTS FOR TRAFFIC SIGNAL PREEMPTION AT HIGHWAY-RAIL GRADE CROSSINGS



GUIDE FOR DETERMINING TIME REQUIREMENTS FOR TRAFFIC SIGNAL PREEMPTION AT HIGHWAY-RAIL GRADE CROSSINGS

City Lakewood
 County Pierce
 District _____

Date 6/31/2008
 Completed by Tony Wipny
 District Approval _____



Parallel Street Name Lakewood Ave
 Crossing Street Name Steinlacon Blvd SW

Railroad SEASIDE TRANSPORT (owner)
 Crossing DOT# 085400D

Railroad Contact Don Morrison
 Phone 253-588-9300

SECTION 1: RIGHT-OF-WAY TRANSFER TIME CALCULATION

Preempt verification and response time

		Remarks
1. Preempt delay time (seconds)	1. 0	
2. Controller response time to preempt (seconds)	2. 0	Controller type: <u>Traconex Traps 40</u>
3. Preempt verification and response time (seconds); add lines 1 and 2	3. 0	

Worst-case conflicting vehicle time

		Remarks
4. Worst case conflicting vehicle phase number	4. 2	
5. Minimum green time during right-of-way transfer (seconds)	5. 6.0	
6. Other green time during right of way transfer (seconds)	6. 0	
7. Yellow change time (seconds)	7. 3.5	
8. Red clearance time (seconds)	8. 1	
9. Worst-case conflicting vehicle time (seconds); add lines 5 through 8	9. 10.5	

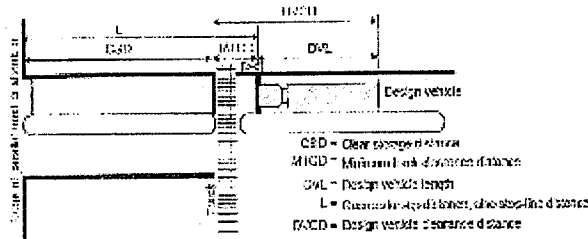
Worst-case conflicting pedestrian time

		Remarks
10. Worst-case conflicting pedestrian phase number	10. 2	
11. Minimum walk time during right-of-way transfer (seconds)	11. 0	<u>omitted</u>
12. Pedestrian clearance time during right of way transfer (seconds)	12. 0	
13. Vehicle yellow change time, if not included on line 12 (seconds)	13. 3.5	
14. Vehicle red clearance time, if not included on line 12 (seconds)	14. 1.0	
15. Worst-case conflicting pedestrian time (seconds); add lines 11 through 14	15. 4.5	

Worst-case conflicting vehicle or pedestrian time

16. Worst-case conflicting vehicle or pedestrian time (seconds); maximum of lines 9 and 15	16. 10.5	
17. Right-of-way transfer time (seconds); add lines 3 and 16	17. 10.5	

SECTION 2: QUEUE CLEARANCE TIME CALCULATION



		Remarks
18.	Clear storage distance (CRD), (feet)	18. 120
19.	Minimum truck clearance distance (MDCD), (feet)	19. 66
20.	Design vehicle length (DVL), (feet)	20. 67
21.	Queue stop-up distance, L (feet); add lines 18 and 19	21. 186
22.	Time required for design vehicle to start moving (seconds); calculate as 24/(L+23)	22. 11.3
23.	Design vehicle clearance distance, DVC (feet); add lines 19 and 20	23. 133
24.	Time for design vehicle to accelerate through the DVC (seconds)	24. 16
25.	Queue clearance time (seconds); add lines 22 and 24	25. 27.3

SECTION 3: MAXIMUM PROMPTION TIME CALCULATION

		Remarks
26.	Right-of-way transfer time (seconds); line 17	26. 10.5
27.	Queue clearance time (seconds); line 25	27. 27.3
28.	Desired minimum separation time (seconds)	28. 4.0
29.	Maximum promption time (seconds); add lines 26 through 28	29. 41.8

SECTION 4: SUFFICIENT WARNING TIME CHECK

		Remarks
30.	Required minimum time, M _r (seconds); per regulations	30. 20
31.	Circumference time, CT (seconds); get from railroad	31. 2.0
32.	Minimum warning time, MWT (seconds); add lines 30 and 31	32. 22
33.	Advance promption time, APT, T provided (seconds); get from railroad	33. 19.8
34.	Warning time provided by the railroad (seconds); add lines 32 and 33	34. 41.8
35.	Additional warning time required from railroad (seconds); subtract line 34 from line 29, round up to nearest full second, enter 0 if less than 0	35. 0

If the additional warning time required (line 35) is greater than zero, additional warning time has to be requested from the railroad. Alternatively, the maximum promption time (line 29) may be decreased after performing an engineering study to investigate the possibility of reducing the values on lines 1, 6, 8, 11, 12, 13 and 14.

Remarks: _____

ROADWAY CONSTRUCTION NOTES

1. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER C.O.T. STD. PLAN NO. SU-03.
2. MODIFIED WSDOT CEMENT CONC. SIDEWALK FOR MEDIAN (PER DETAIL DRAWING RODET113A).
3. CEMENT CONCRETE SIDEWALK (PER C.O.T. STD. PLAN SU-04).
4. CONCRETE CROSSING PANELS WITH ELASTOMERIC FLANGE FILLER. SEE TRACK PLAN AND PROFILE DRAWINGS.
5. CROSSING SIGNAL EQUIPMENT. SEE GRADE CROSSING SIGNAL PLANS.
6. CEMENT CONCRETE TRAFFIC BARRIER CURB PER CITY OF LAKEWOOD STD. PLAN S-2F.
7. CEMENT CONCRETE SIDEWALK (PER CITY OF LAKEWOOD STD. PLAN S-2A).
8. (NOT USED)
9. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 2 PER C.O.T. STD. PLAN SU-08 MODIFIED WITH CURB AT BACK OF S/W. (SEE TYPICAL SECTIONS).
10. CRUSHED SURFACING BASE COURSE (ACCESS PAD TO RAILROAD SIGNAL EQUIPMENT: 6" CSBC COMPACTED DEPTH OVER GRAVEL BORROW SUBGRADE).
11. (NOT USED)
12. (NOT USED)
13. TYPE C PRECAST TRAFFIC CURB (PER WSDOT STD. PLAN F-2).
14. CEMENT CONCRETE TRAFFIC CURB PER C.O.T. STD. PLAN NO. SU-03.
15. CHAINLINK FENCE TYPE 3 (PER WSDOT STD. PLAN L-20.10-00). (NOT USED)
16. BEAM GUARDRAIL TYPE 1 PER WSDOT STD. PLAN NO. C-1 (NOT USED)
17. (NOT USED)
18. (NOT USED)
19. (NOT USED)
20. CEMENT CONC. DRIVEWAY ENTRANCE--MODIFIED (PER DETAIL DRAWING RODET114A).
21. STATION/OFFSET LOCATION FOR DETECTABLE WARNING PATTERN. SEE DRAWINGS RODET110A AND RODET111A.
22. (NOT USED)
23. ADJUST UTILITY TO GRADE
24. TYPICAL CURB AND GUTTER/SIDEWALK TRANSITION AT RAIL CROSSING (PER DETAIL DRAWING RODET110A).
25. (NOT USED)
26. (NOT USED)
27. CEMENT CONC. TRAFFIC CURB AND GUTTER PER WSDOT STD. PLAN F-10.12-00. (NOT USED)
28. CEMENT CONC. SIDEWALK (PER WSDOT STD. PLAN F-30.10-00). (NOT USED)
29. (NOT USED)
30. (NOT USED)
31. CEMENT CONC. SIDEWALK (PER CITY OF LAKEWOOD STD. PLAN S-2B).
32. (NOT USED)
33. (NOT USED)
34. (NOT USED)
35. TYPICAL CURB AND GUTTER TRANSITION AT RAIL CROSSING (PER DETAIL DRAWING RODET110A). (NOT USED)
36. (NOT USED)
37. (NOT USED)
38. TYPICAL CURB AND GUTTER/PLANTER/SIDEWALK TRANSITION AT RAIL CROSSING (PER DETAIL DRAWING RODET111A).
39. (NOT USED)
40. TYPICAL DEPRESSED SIDEWALK AT RAIL CROSSING (PER DETAIL DRAWING RODET111A). (NOT USED)
41. CONCRETE PAD FOR BUS STOP (PER DETAIL DRAWING RODET112A).

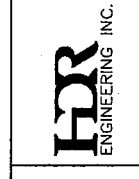
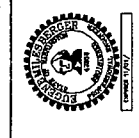
ROADWAY CONSTRUCTION NOTES (CONT.)

42. DUAL FACED CEMENT CONC. TRAFFIC CURB (PER WSDOT STD. PLAN F-10.12-00). (NOT USED)
43. (NOT USED)
44. (NOT USED)
45. (NOT USED)
46. HMA CURB (PER DETAIL DRAWING RODET113A).
47. (NOT USED)
48. SIDEWALK RAMP TYPE 2 PER CITY OF LAKEWOOD STD. PLAN S-3B.
49. (NOT USED)
50. HMA SIDEWALK RAMP (PER DETAIL DRAWING RODET113A).
51. CURB AND GUTTER TRANSITION TO HMA CURB (PER DETAIL DRAWING RODET113A).
52. CEMENT CONCRETE SIDEWALK RAMP TYPE 2 MODIFIED (PER DETAIL DRAWING RODET110A). (NOT USED)
53. (NOT USED)
54. MOUNTABLE CEMENT CONCRETE TRAFFIC CURB AND GUTTER (PER DETAIL DRAWING RODET114A).
55. (NOT USED)
56. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 1 (PER C.O.T. STD. PLAN NO. SU-07).
57. (NOT USED)
58. CEMENT CONC. SIDEWALK RAMP TYPE 3B PER WSDOT STD. PLAN F-40.15-00. (NOT USED)
59. STORMWATER CURB BREAK (PER DETAIL DRAWING RODET112A). (NOT USED)
60. (NOT USED)
61. CEMENT CONC. TRAFFIC CURB (PER WSDOT STD. PLAN F-10.12-00). (NOT USED)
62. PRECAST DUAL FACED SLOPED MOUNTABLE CURB (PER WSDOT STD. PLAN F-10.64-01). (NOT USED)
63. CEMENT CONC. SIDEWALK RAMP TYPE 5 PER WSDOT STD. PLAN F-42.10-00. (NOT USED)
64. BEAM GUARDRAIL ANCHOR TYPE 1 (PER WSDOT STD. PLAN C-6 WITH END SECTION DESIGN C PER WSDOT STD. PLAN C-7). (NOT USED)

GENERAL NOTES -- ROADWAY CONSTRUCTION

1. SEE UTILITY RELOCATION AND PROTECTION PLANS FOR STORM DRAINAGE, MISC. CONDUIT AND CISING INSTALLATION.
2. SEE SHEETS ROAD121A--ROAD125A FOR ROADWAY MEDIAN DETAILS.
3. SEE SHEETS ROTS110A--ROTS128A FOR PAVEMENT SECTIONS.
4. CURB AND GUTTER DETAINED BY FACE OF CURB UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE PROVIDED AT TOP OF CURB UNLESS OTHERWISE NOTED AND DO NOT REFLECT CURB CUTS ON SIDEWALK RAMPS.
5. ALL CURB RETURN ELEVATIONS ARE TO TOP OF CURB UNLESS OTHERWISE NOTED. AT CURB CUT RAMPS, CURB RETURN ELEVATIONS ARE INDICATED AT A POINT 6" ABOVE GUTTER FLOWLINE UNLESS OTHERWISE NOTED.
6. ALL UNITS ARE IN FEET UNLESS OTHERWISE SPECIFIED.
7. DRIVEWAYS ARE STATIONED AT CENTERLINE OF DRIVEWAY

FILE NAME	PD_BROWL.dwg	REGIONAL ADM.	DATE	BY
TITLE	10% PS&E	REVISION		
DATE	May 09, 2008			
PLOTTED BY	chris			
DESIGNED BY	ROH			
ENTERED BY	ROH			
CHECKED BY	.XXX			
PROJ. ENGR.				
REGIONAL ADM.				



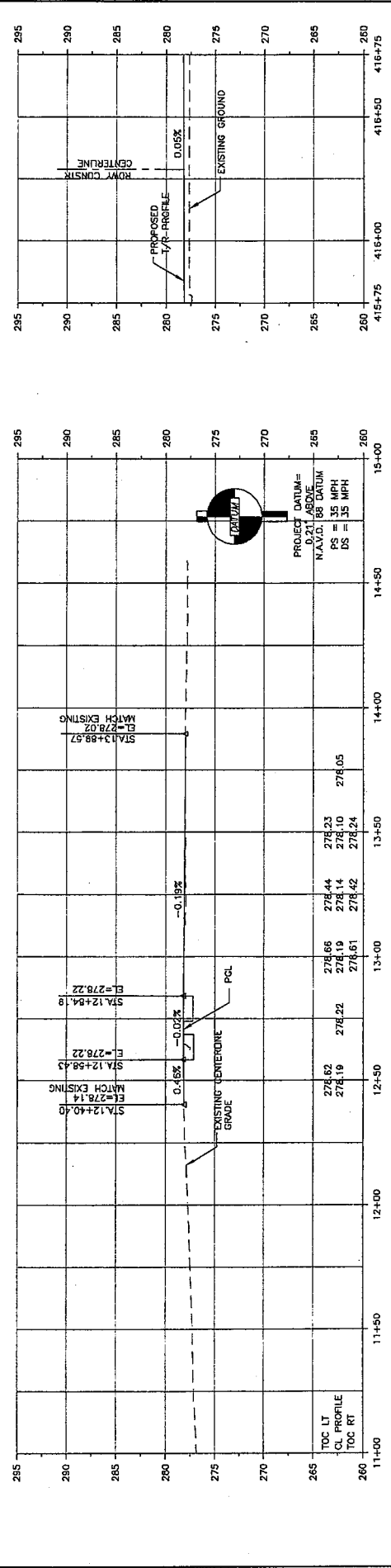
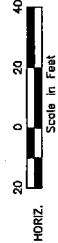
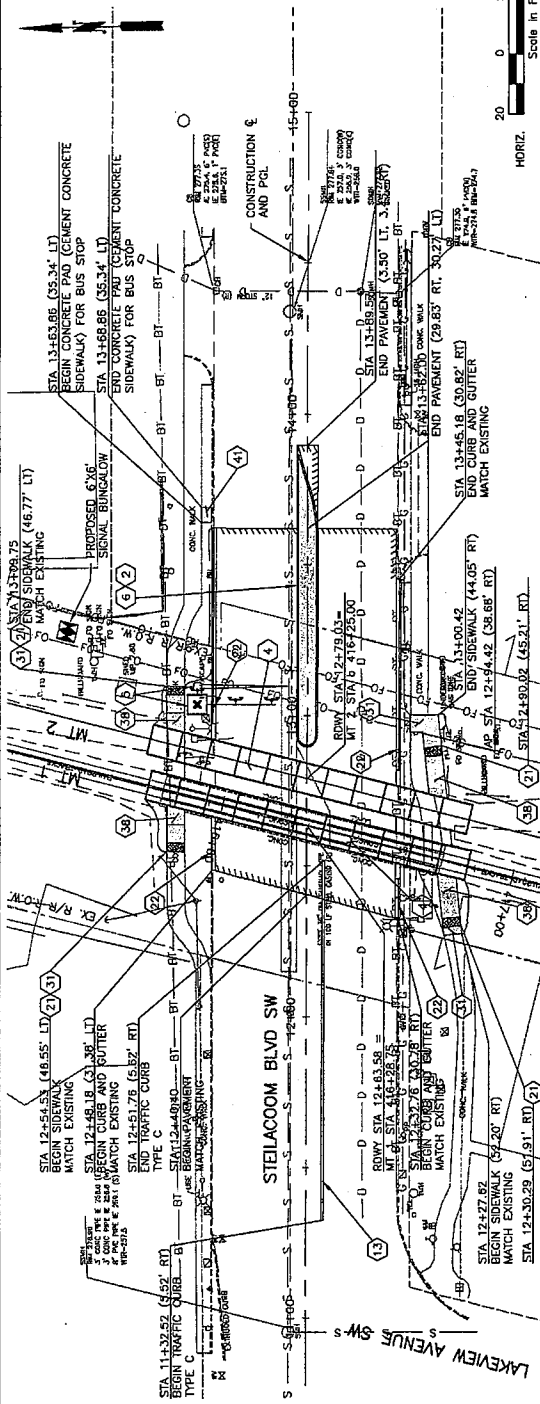
POINT DEFANCE BYPASS PROJECT
100% PS&E SUBMITTAL
ROADWAY CONSTRUCTION NOTES

RD/CNA	
SHEET	X
OF	X
SHEETS	X

ROADWAY CONSTRUCTION NOTES

GENERAL NOTES:

1. SEE DRAWING ROOMA FOR CONSTRUCTION NOTES AND ADDITIONAL GENERAL NOTES.
2. PROPOSED FIBER OPTIC TO BE WITHIN LIMITS OF PROPOSED PAVING. SEE UT AND FOD SHEETS FOR LOCATION OF FIBER OPTIC.



STEILACOOM BLVD SW
 SCALE (FULL SIZE): 1" = 20' HORIZ. 1" = 5' VERT.

FILE NAME	PD 80122A.dwg
TITLE	STEILACOOM BLVD SW
DATE	MAY 08, 2008
PLOTTED BY	CLG
DESIGNED BY	CLG
CHECKED BY	CR
PROJ. ENGR.	BB
REGIONAL ADM.	
REVISION	DATE BY
REQD. NO.	10 WASH
JOB NUMBER	40000
CONTRACT NO.	000010708

SD
SOUNDTRANSIT

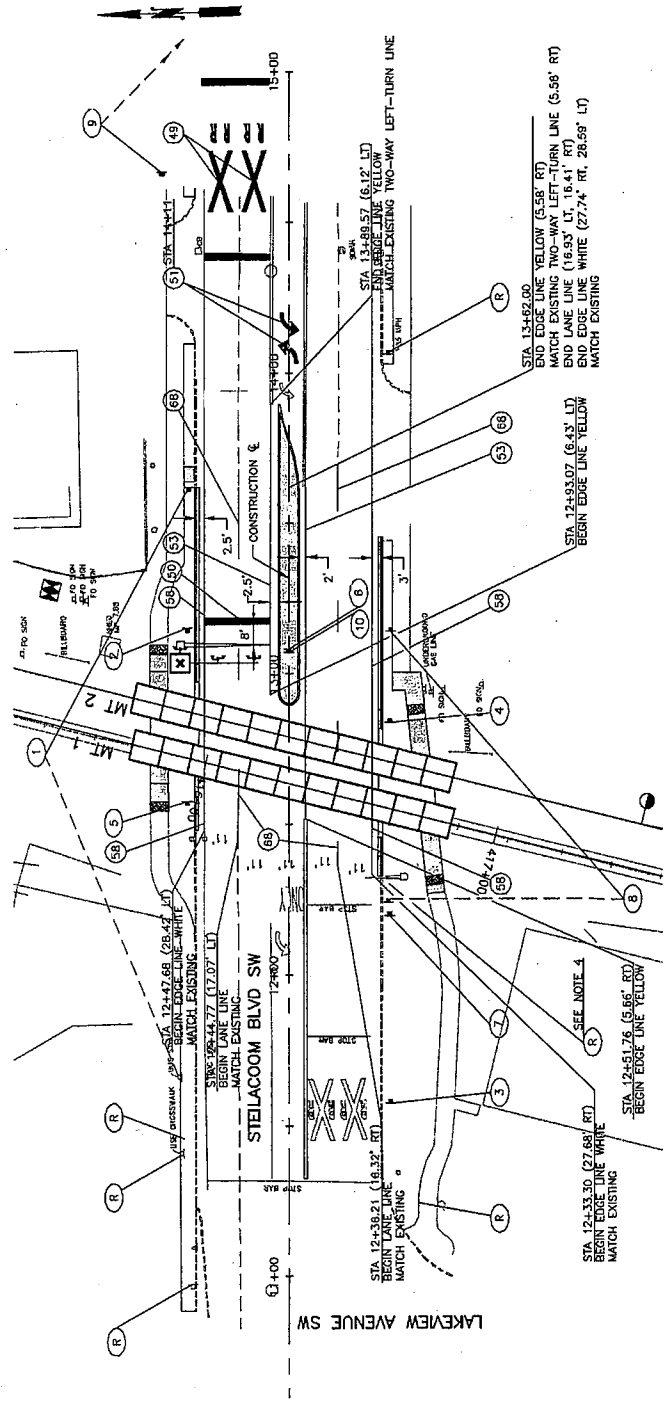
HDR
ENGINEERING INC.



RD122A
 SHEET
 OF
 X
 SHEETS

POINT DEFICANCE BYPASS PROJECT
 100% PS&E SUBMITTAL
 STEILACOOM BLVD SW

ROADWAY PLAN AND PROFILE

- GENERAL NOTES:**
1. SEE DRAWING ROCHENA FOR CHANNELIZATION NOTES AND ADDITIONAL GENERAL NOTES.
 2. SEE DRAWING ROS111A FOR SIGN SCHEDULE AND ROS110A FOR NOTES.
 3. LANE AND SHOULDER WIDTHS ARE APPROXIMATE. MATCH EXISTING.
 4. EXISTING R15-1 RR CROSSING (CROSS BUCK SIGN) MOUNTED ON LUMINAIRE TO REMAIN.



FILE NAME	RD_P01111A.dwg	REVISION	DATE	BY
DATE	02/25/08			
DESIGNED BY	CLG			
DESIGNED BY	CLG			
ENTERED BY	CLG			
CHECKED BY	CR			
PROJ. ENGR.	BR			
REGIONAL ADM.				
SECTION NO.	10 WASH			
JOB NUMBER	40000			
CONTRACT NO.	COM010776			
DATE				
BY				
 				
POINT DEFNANCE BYPASS PROJECT 100% PS&E SUBMITTAL STELACOOM BLVD SW				
CHANNELIZATION AND SIGNING PLAN				
ROCH	111A			
SHEET	X			
OF	X			
TOTAL SHEETS				

GENERAL NOTES:
1-SEE DRAWING R03110A FOR SIGNING LEGEND AND ADDITIONAL GENERAL NOTES.

Sheet Number	Sign Number	Sign Code	Location	Size	Sheeting Type	Letter Size or Code	Post Material	Post Size	Post Length	Clearance	Remarks	Action
R03111A	1	R7-107A W00	13+461.87	12 30	II or IV	STANDARD	STEEL	2.5" SQ	13.5'	7'	NO PARKING BUS STOP SYMBOL WITH TRANSIT LOGO LOCAL BUS ROUTE 3 TO LAKEWOOD	RELOCATE
R03111A	2	R8-10L	13+15.12	24 36	II or IV	STANDARD	WOOD	4"x4"	13.0'	7'	RAILROAD ADVANCE SIGN STOP HERE WHEN FLASHING	NEW
R03111A	3	W10-1	14+47.51	24 36	II or IV	STANDARD	WOOD	4"x4"	13.0'	7'	RAILROAD ADVANCE SIGN STOP HERE WHEN FLASHING	NEW
R03111A	4	R8-8	14+43.52	24 30	II or IV	STANDARD	WOOD	4"x4"	12.5'	7'	DO NOT STOP ON TRACKS	NEW
R03111A	5	R8-8	13+47.18	24 30	II or IV	STANDARD	WOOD	4"x4"	12.5'	7'	DO NOT STOP ON TRACKS	NEW
R03111A	6	R8-8	13+47.18	24 30	II or IV	STANDARD	WOOD	4"x4"	12.5'	7'	DO NOT STOP ON TRACKS	NEW
R03111A	7	R8-10L	12+19.70	24 36	II or IV	STANDARD	WOOD	4"x4"	13.0'	7'	STOP HERE WHEN FLASHING	NEW
R03111A	8	I-11MOD	13+14.06	30 48			WOOD	4"x4"	14.0'	7'	RECYCLING SIGN CODE REFERENCED IN FWHA 2004 STANDARD HIGHWAY	RELOCATE
R03111A	9	W10-1	14+46.51	24 36	II or IV	STANDARD	WOOD	4"x4"	13.0'	7'	RAILROAD ADVANCE SIGN LOCATE SIGN 1.5' FROM BACK OF EXISTING SIDEWALK	RELOCATE
R03111A	10	R8-8	13+47.18	24 30	II or IV	STANDARD	WOOD	4"x4"	13.0'	7'	NO STOPPING ON TRACKS MOUNT ON SAME POST AS SIGN #6	NEW

FILE NAME	RD-R03111A.dwg	REVISION	DATE	BY
DATE	12/03/2008			
DESIGNED BY	CLG			
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ROADWAY CONSTRUCTION NOTES

1. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER C.O.T. STD. PLAN NO. SU-03.
2. MODIFIED WSDOT CEMENT CONC. SIDEWALK FOR MEDIAN (PER DETAIL DRAWING RODET113A).
3. CEMENT CONCRETE SIDEWALK (PER C.O.T. STD. PLAN SU-04).
4. CONCRETE CROSSING PANELS WITH ELASTOMERIC FLANGE FILLER, SEE TRACK PLAN AND PROFILE DRAWINGS.
5. CROSSING SIGNAL EQUIPMENT, SEE GRADE CROSSING SIGNAL PLANS.
6. CEMENT CONCRETE TRAFFIC BARRIER CURB PER CITY OF LAKEWOOD STD. PLAN S-2F.
7. CEMENT CONCRETE SIDEWALK (PER CITY OF LAKEWOOD STD. PLAN S-2A).
8. (NOT USED)
9. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 2 PER C.O.T. STD. PLAN SU-08 MODIFIED WITH CURB AT BACK OF S/W. (SEE TYPICAL SECTIONS).
10. CRUSHED SURFACING BASE COURSE (ACCESS PAD TO RAILROAD SIGNAL EQUIPMENT: 8" CSBC COMPACTED DEPTH OVER GRAVEL BORROW SUBGRADE).
11. (NOT USED)
12. (NOT USED)
13. TYPE C PRECAST TRAFFIC CURB (PER WSDOT STD. PLAN F-2).
14. CEMENT CONCRETE TRAFFIC CURB PER C.O.T. STD. PLAN NO. SU-03.
15. CHAINLINK FENCE TYPE 3 (PER WSDOT STD. PLAN L-20.10-00), (NOT USED)
16. BEAM GUARDRAIL TYPE 1 PER WSDOT STD. PLAN NO. C-1 (NOT USED)
17. (NOT USED)
18. (NOT USED)
19. (NOT USED)
20. CEMENT CONC. DRIVEWAY ENTRANCE—MODIFIED (PER DETAIL DRAWING RODET114A).
21. STATION/OFFSET LOCATION FOR DETECTABLE WARNING PATTERN. SEE DRAWINGS RODET110A AND RODET111A.
22. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER CITY OF LAKEWOOD STD. PLAN S-2F.
23. ADJUST UTILITY TO GRADE.
24. TYPICAL CURB AND GUTTER/SIDEWALK TRANSITION AT RAIL CROSSING (PER DETAIL DRAWING RODET110A).
25. (NOT USED)
26. (NOT USED)
27. CEMENT CONC. TRAFFIC CURB AND GUTTER PER WSDOT STD. PLAN F-10.12-00, (NOT USED)
28. CEMENT CONC. SIDEWALK (PER WSDOT STD. PLAN F-30.10-00), (NOT USED)
29. (NOT USED)
30. (NOT USED)
31. CEMENT CONC. SIDEWALK (PER CITY OF LAKEWOOD STD PLAN S-2B).
32. (NOT USED)
33. (NOT USED)
34. (NOT USED)
35. TYPICAL CURB AND GUTTER TRANSITION AT RAIL CROSSING (PER DETAIL DRAWING RODET110A), (NOT USED)
36. (NOT USED)
37. (NOT USED)
38. TYPICAL CURB AND GUTTER/PLANTER/SIDEWALK TRANSITION AT RAIL CROSSING (PER DETAIL DRAWING RODET111A).
39. (NOT USED)
40. TYPICAL DEPRESSED SIDEWALK AT RAIL CROSSING (PER DETAIL DRAWING RODET111A), (NOT USED)
41. CONCRETE PAD FOR BUS STOP (PER DETAIL DRAWING RODET112A).

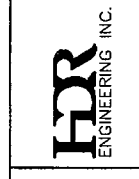
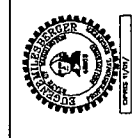
ROADWAY CONSTRUCTION NOTES (CONT.)

42. DUAL FACED CEMENT CONC. TRAFFIC CURB (PER WSDOT STD. PLAN F-10.12-00), (NOT USED)
43. (NOT USED)
44. (NOT USED)
45. (NOT USED)
46. HMA CURB (PER DETAIL DRAWING RODET113A).
47. (NOT USED)
48. SIDEWALK RAMP TYPE 2 PER CITY OF LAKEWOOD STD. PLAN S-3B.
49. (NOT USED)
50. HMA SIDEWALK RAMP (PER DETAIL DRAWING RODET113A).
51. CURB AND GUTTER TRANSITION TO HMA CURB (PER DETAIL DRAWING RODET113A).
52. CEMENT CONCRETE SIDEWALK RAMP TYPE 2 MODIFIED (PER DETAIL DRAWING RODET110A), (NOT USED)
53. (NOT USED)
54. MOUNTABLE CEMENT CONCRETE TRAFFIC CURB AND GUTTER (PER DETAIL DRAWING RODET114A).
55. (NOT USED)
56. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 1 (PER C.O.T. STD. PLAN NO. SU-07).
57. (NOT USED)
58. CEMENT CONC. SIDEWALK RAMP TYPE 3B PER WSDOT STD. PLAN F-40.15-00, (NOT USED)
59. STORMWATER CURB BREAK (PER DETAIL DRAWING RODET112A), (NOT USED)
60. (NOT USED)
61. CEMENT CONC. TRAFFIC CURBS (PER WSDOT STD. PLAN F-10.12-00), (NOT USED)
62. PRECAST DUAL FACED SLOPED MOUNTABLE CURB (PER WSDOT STD PLAN F-10.64-01), (NOT USED)
63. CEMENT CONC. SIDEWALK RAMP TYPE 5 PER WSDOT STD PLAN F-42.10-00, (NOT USED)
64. BEAM GUARDRAIL ANCHOR TYPE 1 (PER WSDOT STD PLAN C-6 WITH END SECTION DESIGN C PER WSDOT STD PLAN C-7), (NOT USED)

GENERAL NOTES — ROADWAY CONSTRUCTION

1. SEE UTILITY RELOCATION AND PROTECTION PLANS FOR STORM DRAINAGE, MISC. CONDUIT AND CASING INSTALLATION.
2. SEE SHEETS ROAD121A—ROAD125A FOR ROADWAY MEDIAN DETAILS.
3. SEE SHEETS ROTS110A—ROTS128A FOR PAVEMENT SECTIONS.
4. CURB AND CURB AND GUTTER DEFINED BY FACE OF CURB UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE PROVIDED AT TOP OF CURB UNLESS OTHERWISE NOTED AND DO NOT REFLECT CURB CUTS OR SIDEWALK RAMPS.
5. ALL CURB RETURN ELEVATIONS ARE TO TOP OF CURB UNLESS OTHERWISE NOTED. AT CURB CUT RAMPS, CURB RETURN ELEVATIONS ARE INDICATED AT A POINT 6" ABOVE GUTTER FLOWLINE UNLESS OTHERWISE NOTED.
6. ALL UNITS ARE IN FEET UNLESS OTHERWISE SPECIFIED.
7. DRIVEWAYS ARE STATIONED AT CENTERLINE OF DRIVEWAY

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DESIGNED BY	ceh/sox			
ENTERED BY	ROH			
CHECKED BY	XXX			
PROJ. ENGR.				
REGIONAL ADM.				



POINT DEFIANCE BYPASS PROJECT 100% PS&E SUBMITTAL ROADWAY CONSTRUCTION NOTES
ROADWAY CONSTRUCTION NOTES

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