

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

Washington State Department of Transportation) DOCKET NO. TR-)) PETITION TO MODIFY A
vs. Central Puget Sound Regional Transportation Authority and the City of Lakewood) HIGHWAY-RAIL GRADE) CROSSING) 100 th Street SW) USDOT CROSSING # 085402S) UTC CROSSING # 1J 8.40)
Respondent	
Γhe Petitioner asks the Washington Utilities and Tr modification of a highway-rail grade crossing.	ransportation Commission to approve

Section 1 – Petitioner's Information

Petitioner			
310 North Maple Park Ave SE			•
Street Address			
Olympia, WA 98504			
City, State and Zip Code			
PO Box 47387, Olympia, WA 98504-7387		(
Mailing Address, if different than the street address			
Kevin Jeffers	•		
Contact Person Name			
360-705-7982; JefferK@wsdot.wa.gov			

Section 2 – Respondent's Information

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 tracks1_ (a second track is still in the pavement, although it's a disconnected stub) ☐ 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, passenger0
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.: This is currently a single active track crossing with cantilever-mounted flashing lights (no gates). There is the disconnected stub of a second track still in the pavement at this location, over which no trains can operate.
The existing detection circuitry is either motion sensors or constant warning time.
There are no existing medians or crossing gates.

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 tracks2 ☐ Siding or Spur, number of tracks
3. Average daily train traffic, freight2
Authorized freight train speed 40 mph Operated freight train speed 40 mph
4. Average daily train traffic, passenger36 (includes low-speed trains to/from layover)
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 100 th Street SW
2. Roadway classification Secondary Arterial City of Lakewood 3. Road authority
4. Average annual daily traffic (AADT) 23,050 (in year 2006)
5. Number of lanes 2 WB lanes, 2 EB lanes, plus Left Turn pocket for westbound traffic
6. Roadway speed 35mph X
7. Is the crossing part of an established truck route? Yes No
8. If so, trucks are what percent of total daily traffic? 4.6% (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?
11. Describe any changes to the information in 1 through 7, above, expected within ten years: AADT estimated to grow to 31,580 (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 X
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 X No 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 a building in the southwest quadrant and fenced areas in the southeast quadrant. Eventually, the northeast quadrant will also have fenced areas.
It is infeasible to relocate the buildings, and the existing street grid cannot accommodate a crossing at another location. The barriers to sight lines will be addressed with active warning devices (relocated or new cantilever-mounted flashing lights, and new crossing gates), as well as revised advance pre-emption timing at the intersection of 100 th Street SW and Lakeview Ave. Also, medians will be installed east of the crossing while west of the crossing a short median, with a C-curb extension, will be installed to discourage risky/illegal motorist behavior.
The curb return in the northeast quadrant of the 100 th Street SW/Lakeview Ave SW intersection will be significantly modified to allow truck turning movements for nearly all WB-50 vehicles (the City's design vehicle), as well as turns for WB-67 vehicles (with some difficulty). The curb modifications will include shifting the curb "inward" nearly 12 feet. This will encourage smoother traffic flow at the intersection which, in turn, should help vehicles clear the tracks more quickly.
Finally, the tracks are being shifted eastward approximately 30', which moves the tracks away from an existing building and results in a marginal increase in motorist visibility down the tracks.
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 _X_
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.

or tre	bes the railway line, at any point in the vicinity of the modified crossing, pass over a fill area estle or through a cut where it is feasible to construct an over-crossing or an under-crossing, though it may be necessary to relocate a portion of the roadway to reach that point? Yes No _X_
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.
,	
	So there an existing public or private crossing in the vicinity of the proposed modified crossing? Yes No _X 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.

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 crossing gate 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. The sightlines are restricted by the skew of the crossing. Because this is a skewed crossing, the table is based on sight distances available beginning at the crossing gate, and within a 90-degree range of vision either side of the roadway centerline. Significantly longer sight distances are available in the field if the range of vision is increased beyond 90-degrees.

a. Approaching the crossing from <u>WEST</u>, 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	30
Right	200	35
Right	100	45
Right	50	230
Right	25	470
Left	300	30
Left	200	60.
Left	100	730
Left	50	630
Left	25	630

b. Approaching the crossing from <u>EAST</u>, 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	570
Right	200	505
Right	100	235
Right	50	120
Right	25	65
Left	300	230
Left	200	495
Left	100	495
Left	50	495
Left	25	495

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

3. If not, state in feet the length of level grade from the center of the railway on both approaches to the crossing. From the west, the grade is nearly level within 55' of the crossing.

From the east, the roadway slopes down from the crossing at approximately 1%. The 1%

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level grade? Yes	X	lo	e an approach g			
						
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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 medications include adding or modifying preemption, contact UTC for the additional worksheets.

Modifications to the existing warning devices include relocating the existing cantilever on the east side of the tracks. The cantilever will be relocated approximately 40' 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 is in good condition, and will receive new LED flashing light units.

A new cantilever and gate will be installed on the west side of the tracks. A new gate will be installed on the east side of the tracks.

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.

An activated blank-out sign with the message or symbol "No Right Turn" is proposed at the intersection of 100th Street 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 100th Street SW.

After the railroad advance pre-emption is in effect, and after the crossing gates have had sufficient time to descend, the green phase on east/westbound 100th Street will end. At this time, northbound and southbound traffic on Lakeview Ave will be given green lights in order to minimize effects on traffic. However, during this phase, southbound left turns off Lakeview onto eastbound 100th will be prevented by a "No Left Turn" activated blank-out sign.

The approximate cost for crossing improvements at 100th Street SW is \$514,000.

Section 11 – Justification of Installation of Wayside Horn (if applicable)

. Describe in detail why this crossing should have escription of where the wayside horns and indica	tor lights wil	l be ins	talled	at the	crossing.	
Vith higher speed operations, wayside horns a oise for residents adjacent to the track. With legin sounding farther from the crossing, near ghts will be installed on top of the cantilever nee them from a distance. Wayside horns will buadrants of the crossing.	nigher speed residential : nasts, mount	l trains, areas a ted higl	the to d scl so t	rain ho hools. I hat eng	orn would The indictineers ca	d ator in
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Section 12 – Additi	onal Inform	ation		 		

public benefits that would be derived from modifying the crossing as proposed.

The tracks will be shifted approximately 30' eastward from their current location.

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

ill be widen	ed to accomm	iffic turning rig odate truck tu Please see secti	rning mov	ements. N	SW onto Lakevi New sidewalks w information).	ew Ave SW fill be added
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Section 13 - Waiver of Hearing by Respondent

Waiver of Hearing		
The undersigned represents crossing.	the Respondent in the petition to m	odify a highway-railroad grade
the conditions are the same	nditions at the crossing proposed for as described by the Petitioner in this a decision by the commission without	is docket. We agree the crossing
Dated at	_ , Washington, on the	day of
,	20	
	Printed name of Respondent	
		·
	Signature of Respondent's Repre	esentative
	Title	
	Phone number and e-mail addres	SS .
·.		
	Mailing address	
	•	

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

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17.	Right-of-way transfer time (se	ben f. andi bha :[abaoo	16	~	17. 17.5

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23.	Design valvicle character distance, DVCD (set); add lines 19 and 20 23
24.	Time for cesign which in accelerate flybugh the DVCD (seconds)
25.	Queue clearance time (seconds); add lines 22 and 24
FC	TION 3: MAXIMUM PREEMPTION TIME CALCULATION Remarks
26.	Right-nf-way transfer time (seconds): line 17 20
27.	Queue clearants find (consude), ine 25
	Liegized minimum separation ture (excepted)
29.	Maximum preemption time (seconds): add lines 26 through 28
FC	TION 4: SUFFICIENT WARNING TIME CHECK Remarks
	Required minimum time, M1 (seconds) par regulations
	Clastrance lines, CT. (seconds): gestron: relicand
	Minimum warring fina, MWT (seconds), add intes 30 and 31
	Advance precription time, APT, if provided (seconds); get from rathoad 10. 22.6
	Warning Line provided by the retrieved (seconds), add lines 32 and 33
35.	Additional warning than required from railroad (seconds): subtract line 34 from time 29, round up to neurost full second, error 6 if less than 0
	If the additionst varying time required (line 35) is greater than zero, additional warning time has to be requested from the militaria. Alternatively, the maximum precomption time (time 28) may be decreased after performing an engineering study to investigate the possibility of reducing the values on times 1, 5, 6, 7, 6, 11, 72, 13 and 14.
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ROADWAY CHANNELIZATION NOTES

- PANTED TWO WAY LETT TURN STRIP WITH RAISED PAYEMENT MARKERS PER C.O.T. CHANNELIZATION DETAILS, KAISED PAYEMENT MARKERS AND PAINT STRIPING STD. PLAN.
- PANTED 4" LANE STRIPE WITH RAISED PAYIBAENT MARKERS PER C.O.T. CHANNELIZATION DETAILS, RAISED PAYEMENT MARKERS AND PAYEMENT STRIPING STO. PLAN.
- PLASTIC PAVEMENT "ONLY" PER C.O.T. PLASTIC PAVEMENT "ONLY" STD. PLAN
- THERMOPLASTIC TRAFFIC ARROW PER C.O.T. TYPICAL THERMOPLASTIC TRAFFIC ARROW STD. PLAN. 25.
- PLASTIC TYPE D STOP BAR PER WSDOT STD. PLAN M-11.10-01.

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- PLASTIC TYPE D RALFOAD GROSSIKG SYMBOL PER WSDOT STD. PLAN 14-11.10-01, WITH EXCEPTIONS TO STANDARD LAYOUT DIMENSIONS AS NOTED IN PLAN VIEW.
- PLASTIC TYPE D EDGE LINE YELLOW PER WSDOT STD. SPECIFICATIONS.
- PLASTIC TYPE D EDGE LINE WHITE PER WSDOT STD. SPECIFICATIONS. (NOT USED)
- CITY OF LAKEWOOD DURABLE MARKING TRAFFIC ARROW TYPE 2SR PER WSDOT STD. PLAN M-24.40-01.
- PLASTIC TYPE D CROSSWALK LINE PER WSDOT STD. PLAN M-15.10-01. (NOT USED)
- PLASTIC TYPE D WIDE LINE PER WSDOT STD. SPECIFICATIONS. (NOT USED)
- PLASTIC TYPE D DOUBLE YELLOW CENTER LINE PER WSDOT STD. SPECIFICATIONS. (NOT USED) 47.
- PLASTIC TYPE D LANE LINE PER WSDOT STD. SPECIFICATIONS. (NOT USED)
- CITY OF LAKEWOOD DURABLE MARKING RALROAD CROSSING STABOL PER WSDOT STD. PLAN M-11.10-01, WITH EXCEPTIONS TO STANDARD LAYOUT DIMENSIONS AS NOTED IN PLAN VIEW. 49.
 - CITY OF LAKEWOOD DURABLE MARKING STOP BAR PER WSDOT STD. PLAN M-11.10-00. 20.
- CITY OF LAKEWOOD DURABLE MARKING TRAFFIC ARROW TYPE 2SL PER WSDOT STD. PLAN M-24.40-01. 5
- CITY OF LAKEWOOD DURABLE MARKING TRAFFIC LETTTERS "ONLY", DIMENSIONS PER WSDOT STD. SPECIFICATIONS. 25.
 - CITY OF LAKEWOOD DURABLE MARKING EDGE LINE YELLOW, DIMENSIONS PER WSDOT STD. SPECIFICATIONS. CITY OF LAKEWOOD DURABLE MARKING 24" STOP BAR PER CITY OF LAKEWOOD STD. PLAN CH-1. 53 \$
 - 55
 - PLASTIC TYPE D TRAFFIC ARROW TYPE 25L PER WSDOT STD. PLAN IA-24.40-01. (NDT USED)
 - PLASTIC TYPE D TRAFFIC LETTERS "ONLY" PER WSDOT STD. SPECIFICATIONS. (NOT USED) 56.
- CITY OF LAKEWOOD DURABLE MARKING BICYCLE LANE SYMBOL PER WSDOT STD. PLAN M-9.50-01. 57.
- CITY OF LAKEWOOD DURABLE MARKING EDGE LINE WHITE, DIMENSIONS PER WSDOT STD. SPECIFICATIONS. 58
- CITY OF LAKEWOOD DURABLE MARKING WIDE LINE, DIMENSIONS PER WSDOT STD. SPECIFICATIONS. 29
- CITY OF LAKEWOOD DURABLE MARKING DOUBLE YELLOW CENTER LINE, DIMENSIONS PER WSDOT STD. SPECIFICATIONS. 90.
 - TYPE 1 AND 2 RPM DOUBLE YELLOW CENTER LINE PER WSDOT STD. PLAN M-20.50.01. (NOT USED) 61.
- RAISED PAVEMENT MARKER TYPE 1Y DOUBLE YELLOW CENTER LINE PER WSDOT STD. PLAN N-20.50-01. (NOT USED) 62.
- 63. RAISED PAVEMENT MARKER TYPE 11 AND LANE LINE PER DETAIL SHEET RODET112A.
- RAISED PAVEMENT MARKER TYPE 1Y AND TWO WAY LEFT TURN LINE PER DETAL SHEET RODET112A. 64.
- PLASTIC TIPE O TRAFTIC ABROW TYPE 681. DIMENSIONS PER WSDOT STD. PLAN N-24.40.01. LAYOUT PER LANE REDUCTION DETAIL ON SHEET RODETY18A (NOT USED) 65
- PLASTIC TYPE D TRAFFIC ARROW TYPE 2SR PER WISDOT STD. PLAN M-24.40-01. (NOT USED) 99
- CITY OF LAKEWOOD DURABLE MARKING CROSSWALK PER CITY OF LAKEWOOD STD. PLAN CH-1.
- CITY OF LAKEWOOD DURABLE MARKING LANE LINE PER SPECIFICATION SECTION 01900. REVISIONS TO WSDOT STD. SPECIFICATION 8-22 AND 9-34. DIMENSIONS PER WSDOT STD. SPECIFICATIONS.
 - PLASTIC TYPE D STOP LINE PER WSDOT STD. PLAN M-15.10-01. (NOT USED)
- 70. PAINT TOP AND EXPOSED SIDES OF CURB YELLOW, WITH GLASS BEADS, PER SPECIFICATION SECTION 01900.

GENERAL NOTES - ROADWAY CHANNELIZATION

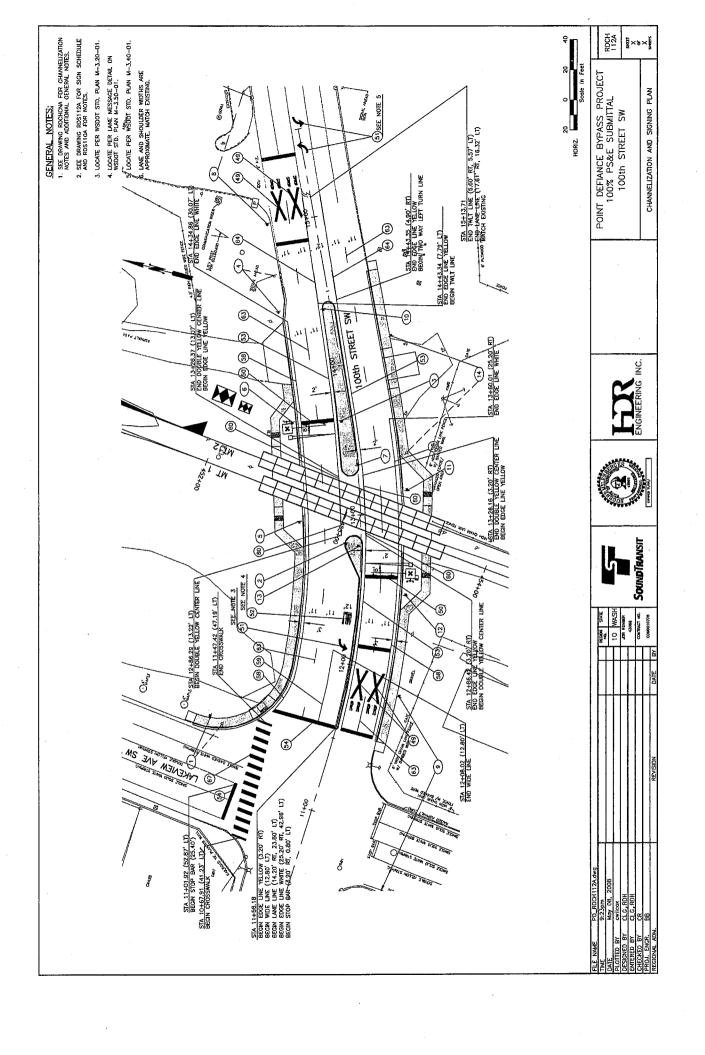
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POINT DEFANCE BYPASS PROJECT 100% PS&E SUBMITTAL ROADWAY CHANNELIZATION NOTES	C		ES	
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NOTES	
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GENERAL NOTES: 1. SEE DRAWING ROSTION FOR SIGNING LEGEND AND ADDITIONAL GENERAL NOTES.

Shoet Number	Shoet Number Sign Number Sign Code	Sign Code	Location	Size		Sheeting Type	Sheeting Type Letter Size or Code Post Material	Post Material	Post Size	Post Size Post Length	Clearance	ance.	Remarks	Action
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RDCH112A	3	F-68-B	13+64.15	24	R	III or IV	STANDARD	WOOD	4 ×4.	12.5	7	2	DO NOT STOP ON TRACKS	NEW
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RDCH112A	. 5	6-89-8	12+96.83	24	R	# or ₹	STANDARD	WOOD	4_x4_	13.0	7	.9	DO NOT STOP ON TRACKS	NEW
RDCH112A	6	R8-10L	13+69.05	24	8	III or IV	STANDARD	doow	4,k4	13.5	7.	.9	STOP HERE WHEN FLASHING	NEW
RDCH112A	7	W12-401L	13+33.05	12	98	∥ or N	N/A	WOOD	4.×4.	10.0	4.	.5'E	LATERAL CLEARANCE MARKER (LEFT)	NEW
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RDCH112A	9	WID-1	11+85.43	DIA	8			goow.	4.x4-	13.0'	.2.	11.	RAILROAD ADVANCE SIGN	RELOCATE
RDCH112A	10	W12-401L	14+39.27	12	8	⊞ or IV	NA	WOOD	4"x4"	9.5.	4.	3.5	LATERAL CLEARANCE MARKER (LEFT)	NEW
RDCH112A	- 11	8-8-8	13+14.05	75	8	∥ or N	STANDARD	doow	_\$X_P	12.5	1.	.2'9	DO NOT STOP ON TRACKS	WEW
RDCH112A	12	R8-10L	12+48.34	74	98	⊞ or IV	STANDARD	WOOD	4"x4"	13.0"	7.	.9	STOP HERE WHEN FLASHING	NEW
RDCH112A	13	8-98	12+78.78	74	æ	≡ ar R	STANDARD	000M	4-x4-	13.0		ŝ	DO NOT STOP ON TRACKS	NEW
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RDS112A POINT DEFIANCE BYPASS PROJECT 100% PS&E SUBMITTAL 100th STREET SW

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SIGN SCHEDULE





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STATE	MASH	ROB WUMBER	43084	CONTRACT NO.	COND010778
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