



2702 South 42nd Street, Suite 201
Tacoma, Washington 98409-7322
(253) 798-7250 • Fax (253) 798-2740

August 24, 2012

Kathy Hunter, Deputy Assistant Director
Transportation Safety Washington Utilities
and Transportation Commission
1300 S. Evergreen Park Dr. SW
PO Box 47250
Olympia, WA 98504-7250

RECEIVED
RECORDS MANAGEMENT
2012 SEP -4 AM 11:40
STATE OF WASH
UTIL. AND TRAFFIC
COMMISSION

Re: Petition for Canyon Road East Traffic Signal Inter-tie with USDOT Crossing 397-135D

Dear Ms. Hunter:

Please find attached, a completed Petition form requesting a new traffic signal inter-tie with an existing rail crossing pre-emption system located on Canyon Road East in Pierce County. The existing rail crossing is currently fitted with overhead warning beacons and is owned by Tacoma Rail Mountain Division. Contact information for the rail company has been provided on the Petition.

Thank you for all of your help in this matter. If you have any questions or concerns regarding the enclosed Petition, please contact Steve Winter at (253) 798-2246 or me at (253) 798-2275.

Sincerely,

Rory D. Grindley, P.E., PTOE
County Traffic Engineer

RDG:SW
Enclosure

cc: Jeff Kidston, Pierce County Planning and Land Services
Traffic File



Section 2 – Respondent's Information

Tacoma Rail Mountain Division (TRMW)
Respondent

2601 SR 509 North Frontage Road
Street Address

Tacoma, Washington 98421
City, State and Zip Code

Mailing Address, if different than the street address

Alan Matheson
Contact Person Name

253-502-8934 alan.matheson@cityoftacoma.org
Contact Phone Number and E-mail Address

Section 3 – Crossing Location

1. Existing highway/roadway Canyon Road East

2. Existing railroad Tacoma Rail Mountain Division (TRMW)

3. USDOT Crossing No. 397-135D

4. Located in the SW 1/4 of the NW 1/4 of Sec. 31, Twp. 19N, Range 4E W.M.

5. GPS location, if known _____

7. Railroad mile post (nearest tenth) 0013.200

8. City Graham County Pierce

Section 4 – Vehicle Traffic

1. Type of public road at the crossing State County City
 Port State Park Other _____

2. Name of public road Canyon Road East

3. Road authority Pierce County

4. Average daily vehicle traffic over the crossing 18,500 Vehicle speed limit 45 MPH

5. Number of lanes each way Two (2)

6. Trucks (commercial vehicles) are what percent of average daily traffic 10.5

7. Number of school buses over the crossing each day not known

Section 5 – Railroad Traffic

1.. Name of railroad(s) operating at crossing
Tacoma Rail Mountain Division (TRMD)

9. Type of railroad at crossing Common Carrier Logging Industrial
 Passenger Excursion

10. Type of tracks at crossing Main Line Siding or Spur

11. Number of tracks at crossing One (1)

12. Average daily train traffic, freight One (1)
Authorized freight train speed 7-10 MPH Operated freight train speed 5-10 MPH

13. Average daily train traffic, passenger 0
Authorized passenger train speed _____ Operated passenger train speed _____

Section 6 – Current Warning Devices

1. Provide a complete description of the warning devices currently located at the crossing, including signs, gates, lights, train detection circuitry and any other warning devices.

Tacoma Rail currently provides cantilevered dual face flashing red warning beacons over the roadway (4 beacons per direction).

Pierce County currently provides stop lines, railroad crossing symbols (2 on each approach to the track crossing per the MUTCD), and 2 railroad warning disc signs per approach on Canyon Road East.

Railroad detection provides 28 seconds advanced detection for activation of overhead flashing red beacons.

Section 7 – Description of Proposed Changes

1. Describe in detail the proposed changes, including train detection circuitry, sequencing and advanced preemption time, justification for the changes and its effects on current warning devices and warning times for drivers.

The Petitioner proposes to construct a traffic signal system on Canyon Road East approximately 200 feet north of the rail crossing. The traffic signal controller will be wired with a relay switch directly to a dead load switch provided within the existing railroad detection control cabinet (located adjacent to the rail crossing on Tacoma Rail property). This powered 120 volt connection between controllers will provide fail safe assurance that train pre-emption will be activated within the traffic controller upon train advanced detection from the rail controller or if power is lost within the railroad detection control unit.

Currently, Tacoma rail provides 28 seconds of advanced detection for triggering the start of their flashing beacons. Pierce County will work with Tacoma Rail to increase advanced detection to 32 seconds per calculations attached. This timing will provide the time necessary for the traffic signal to operate in RR pre-emption phase for clearing rail crossing on Canyon Road for NB direction. SB Canyon Road traffic will be stopped with red indication immediately upon RR pre-emption activation.

Current Tacoma Rail warning beacon operation would remain unchanged from current activation sequencing (other than an increase in advanced train detection mentioned above).

Section 8 – Illustration of Current and Proposed Layout

Attach a detailed diagram, drawing, map or other illustration showing the current and proposed layout of the road, crossing surface and railway in the vicinity of the crossing, including shoulders, sidewalks, lanes of travel, bike lanes, warning devices and any other applicable crossing conditions.

Section 9 – Traffic Signal Preemption

Complete the attached Guide for Determining Time Requirements for Traffic Signal Preemption at Highway-Rail Grade Crossings.

1. Specify simultaneous or advance preemption requested.

Total advanced detection time requested is 32 seconds.

If advance preemption, what is the preemption time.

Current 28 seconds is provided w/ 4 additional seconds requested for the 32 second total.

Section 10 – Waiver of Hearing by Respondent

Waiver of Hearing

The undersigned represents the Respondent in the petition to install an inter-tie between the highway signal and the railroad crossing signal system at the following crossing.

USDOT Crossing No. 397-135 D

We have investigated the conditions at the crossing. We are satisfied the conditions are the same as described by the Petitioner in this docket. We agree the inter-tire should be installed and consent to a decision by the commission without a hearing.

Dated at Tacoma, Washington, on the 21ST day of
August, 20 12.

Alan Matheson, for Tacoma Rail Mountain Division

Printed name of Respondent

Alan Matheson

Signature of Respondent's Representative

Roadmaster

Title

(253) 502-8934 alan.matheson@cityoftacoma.org

Phone number and e-mail address

2601 SR 509 N. Frontage Road

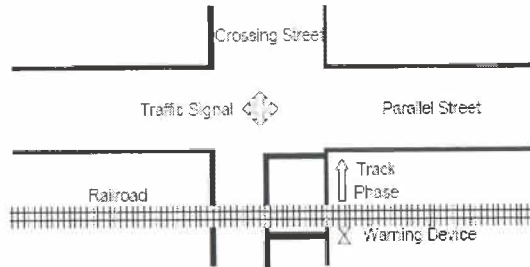
Tacoma, WA 98421

Mailing address

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

City Graham
County Pierce
District _____

Date 8/15/12
Completed by S. Moeller
District Approval _____



Parallel Street Name
Boeing Entrance Road
Crossing Street Name
Canyon Road East

Railroad Tacoma Rail Mountain Division
Crossing DOT# 396691E USDOT# 397-135D

Railroad Contact Alan Matheson
Phone (253) 502-8934

SECTION 1: RIGHT-OF-WAY TRANSFER TIME CALCULATION

Preempt verification and response time

- | | | | |
|--|----|--------------------------------|---------------------------------------|
| 1. Preempt delay time (seconds) | 1. | <input type="text" value="0"/> | Remarks |
| 2. Controller response time to preempt (seconds) | 2. | <input type="text" value="0"/> | Controller type: <u>Econlite ASC3</u> |
| 3. Preempt verification and response time (seconds): add lines 1 and 2 | 3. | <input type="text" value="0"/> | |

Worst-case conflicting vehicle time

- | | | | |
|---|----|----------------------------------|---------|
| 4. Worst-case conflicting vehicle phase number | 4. | <input type="text" value="5"/> | Remarks |
| 5. Minimum green time during right-of-way transfer (seconds) | 5. | <input type="text" value="0"/> | |
| 6. Other green time during right-of-way transfer (seconds) | 6. | <input type="text" value="0"/> | |
| 7. Yellow change time (seconds) | 7. | <input type="text" value="3.5"/> | |
| 8. Red clearance time (seconds) | 8. | <input type="text" value="1.0"/> | |
| 9. Worst-case conflicting vehicle time (seconds): add lines 5 through 8 | 9. | <input type="text" value="4.5"/> | |

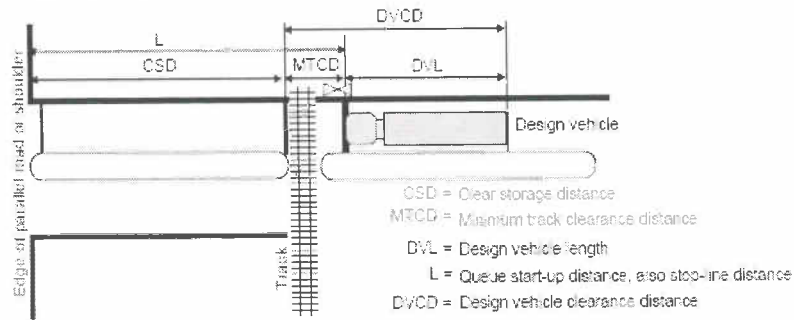
Worst-case conflicting pedestrian time

- | | | | |
|---|-----|----------------------------------|---------|
| 10. Worst-case conflicting pedestrian phase number | 10. | <input type="text" value=""/> | Remarks |
| 11. Minimum walk time during right-of-way transfer (seconds) | 11. | <input type="text" value="0"/> | |
| 12. Pedestrian clearance time during right-of-way transfer (seconds) | 12. | <input type="text" value="0"/> | |
| 13. Vehicle yellow change time, if not included on line 12 (seconds) | 13. | <input type="text" value="4.0"/> | |
| 14. Vehicle red clearance time, if not included on line 12 (seconds) | 14. | <input type="text" value="1.0"/> | |
| 15. Worst-case conflicting pedestrian time (seconds): add lines 11 through 14 | 15. | <input type="text" value="5.0"/> | |

Worst-case conflicting vehicle or pedestrian time

- | | | |
|--|-----|----------------------------------|
| 16. Worst-case conflicting vehicle or pedestrian time (seconds): maximum of lines 9 and 15 | 16. | <input type="text" value="5.0"/> |
| 17. Right-of-way transfer time (seconds): add lines 3 and 16 | 17. | <input type="text" value="5.0"/> |

SECTION 2: QUEUE CLEARANCE TIME CALCULATION



		Remarks
18. Clear storage distance (CSD, feet)	18. 80	_____
19. Minimum track clearance distance (MTCD, feet)	19. 35	_____
20. Design vehicle length (DVL, feet)	20. 65	Design vehicle type: <u>WB-60</u>
21. Queue start-up distance, L (feet); add lines 18 and 19	21. 115	
22. Time required for design vehicle to start moving (seconds); calculate as $2+(L+20)$	22. 7.8	Remarks
23. Design vehicle clearance distance, DVCD (feet); add lines 19 and 20	23. 100	
24. Time for design vehicle to accelerate through the DVCD (seconds)	24. 15.0	Read from Figure 2 in Instructions.
25. Queue clearance time (seconds); add lines 22 and 24	25. 22.8	

SECTION 3: MAXIMUM PREEMPTION TIME CALCULATION

		Remarks
26. Right-of-way transfer time (seconds); line 17	26. 5.0	_____
27. Queue clearance time (seconds); line 25	27. 22.8	_____
28. Desired minimum separation time (seconds)	28. 4.0	_____
29. Maximum preemption time (seconds); add lines 26 through 28	29. 31.8	

SECTION 4: SUFFICIENT WARNING TIME CHECK

		Remarks
30. Required minimum time, MT (seconds); per regulations	30. 15.0	_____
31. Clearance time, CT (seconds); get from railroad	31. 5.0	_____
32. Minimum warning time, MWT (seconds); add lines 30 and 31	32. 20.0	Excludes buffer time (BT)
33. Advance preemption time, APT, if provided (seconds); get from railroad	33. 0.0	_____
34. Warning time provided by the railroad (seconds); add lines 32 and 33	34. 20.0	
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. 12.0	








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 preemption time (line 29) may be decreased after performing an engineering study to investigate the possibility of reducing the values on lines 1, 5, 6, 7, 8, 11, 12, 13 and 14.

Remarks: _____

CountyView Web Map



Map Legend

- Roads**
-  Interstate
 -  Limited Access State Routes
 -  Other State Routes
 -  Ramps
 -  Major Arterial
 -  Collector
 -  Local Access
- County - 2011 - Ortho



Printed: 8/16/12 4:13 PM



The map features are approximate and are intended only to provide an indication of said feature. Additional areas that have not been mapped may be present. This is not a survey. Orthophotos and other data may not align. Pierce County assumes no liability for variations ascertained by actual survey. All data is expressly provided AS IS and WITH ALL FAULTS. Pierce County makes no warranty of fitness for a particular purpose.

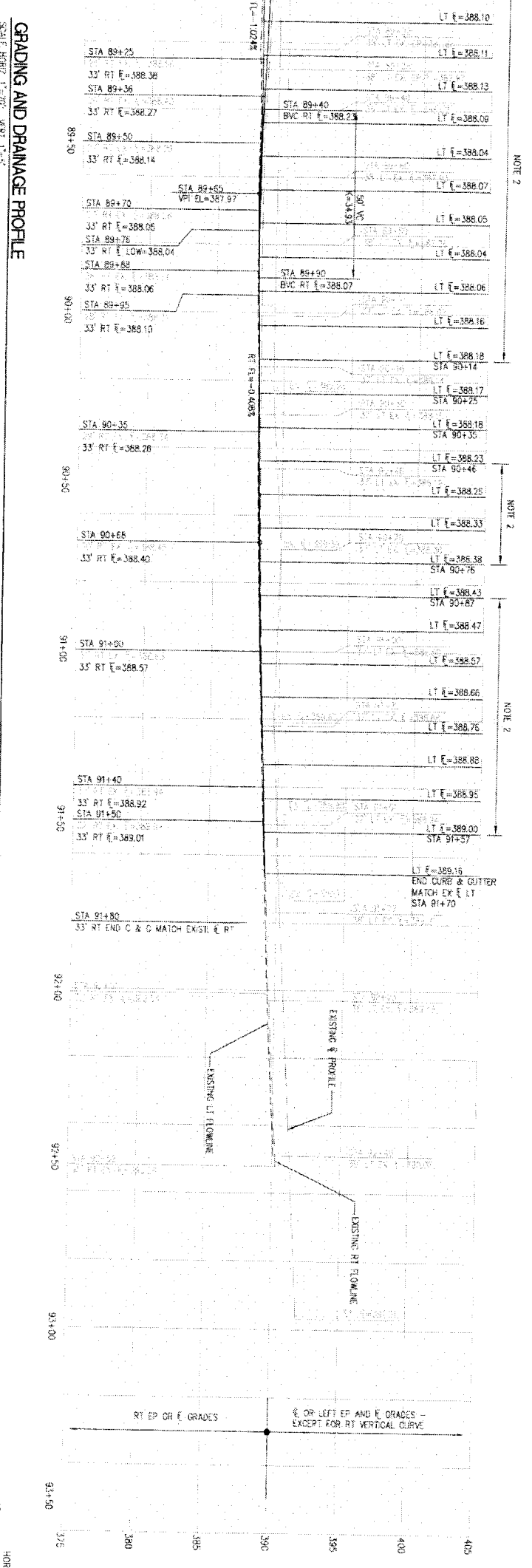
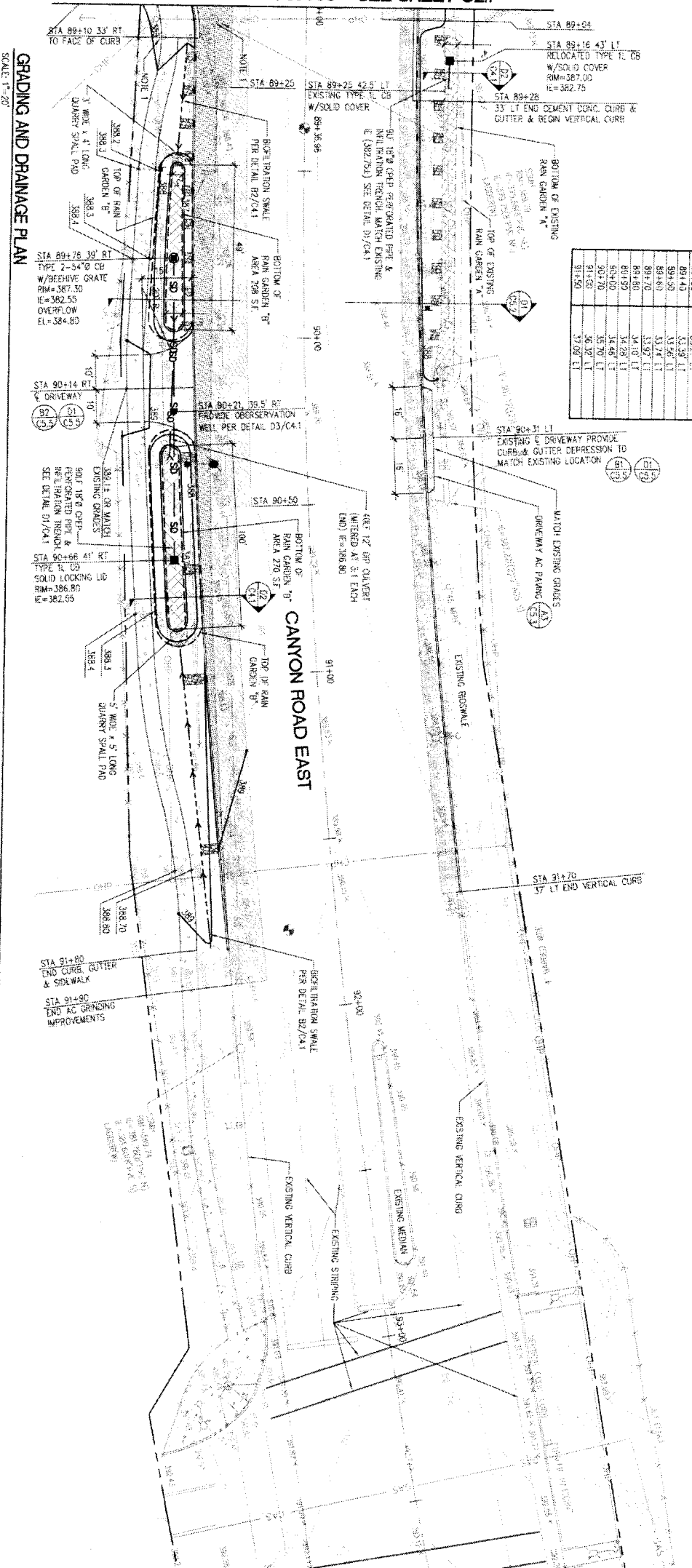
MATCHLINE STA. 89+00 - SEE SHEET C21

MATCHLINE STA. 89+00 - SEE SHEET C21

CANYON ROAD EAST IMPROVEMENTS AT FREDERICKSON INDUSTRIAL PARK ROAD EAST
 A PORTION OF THE NW 1/4 OF SECTION 31, TOWNSHIP 19 NORTH, RANGE 4 EAST, W.M. PIERCE COUNTY, WASHINGTON

CURB INLET LOCATIONS

STA	INLET TO FACE OF CURB
89+10	33.67' LT
89+20	33.67' LT
89+30	33.67' LT
89+40	33.59' LT
89+50	33.56' LT
89+60	33.74' LT
89+70	33.69' LT
89+80	34.10' LT
89+90	34.28' LT
90+00	34.46' LT
90+10	34.70' LT
90+20	34.92' LT
90+30	35.12' LT
90+40	35.29' LT
90+50	35.44' LT
90+60	35.57' LT
90+70	35.68' LT
90+80	35.77' LT
90+90	35.84' LT
91+00	35.89' LT
91+10	35.92' LT
91+20	35.93' LT
91+30	35.92' LT
91+40	35.88' LT
91+50	35.81' LT
91+60	35.71' LT
91+70	35.58' LT
91+80	35.42' LT
91+90	35.24' LT
92+00	35.04' LT



NOTES

1. ADJUST SIGN OF ALL EXISTING UTILITY STRUCTURES WHICH ARE APPROVED ASHALL PAYMENT GRANT SIGN. SANITARY, AND DRAINAGE SMALL LANTS TO MATCH PROPOSED FINISH GRADE.
2. LEFT HANDLINE ELEVATIONS ARE PROVIDED AT 10' INTERVALS UNLESS OTHERWISE NOTED.

CURB INLET LOCATIONS

STA	INLET TO FACE OF CURB
91+80	35.71' LT
91+90	35.68' LT
92+00	35.62' LT
92+10	35.53' LT
92+20	35.41' LT
92+30	35.27' LT
92+40	35.11' LT
92+50	34.93' LT
92+60	34.73' LT
92+70	34.51' LT
92+80	34.27' LT
92+90	34.01' LT
93+00	33.73' LT

CALL 2 WORKING DAYS BEFORE YOU BEGIN SIGNING IN THEIR RESPECTIVE JURISDICTIONS THE INTERSECTING LOCATION CENTER

1-800-424-5555

THE BOARD OF DIRECTORS OF THIS PROJECT ARE SIGNING IN THEIR RESPECTIVE JURISDICTIONS WHERE KNOWN, OTHER EXISTING DESIGN UTILITIES MAY NOT BE SHOWN ON THESE PLANS. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES AND HAVE THEM LOCATED AND MARKED ON THE GROUND PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND DAMAGED UTILITY THROUGHOUT THE PROJECT. PROJECT METHOD APPROVED. CONTACTS:

PUBLIC IMPROVEMENTS

THE WORKSHEET NUMBER IS 2008-595

DATE: 08/09/12

PROJECT: CANYON ROAD EAST IMPROVEMENTS AT FREDERICKSON INDUSTRIAL PARK ROAD EAST

DESIGNED BY: R.C.H.

DRAWN BY: J.M.W.

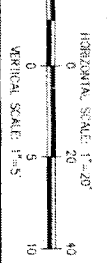
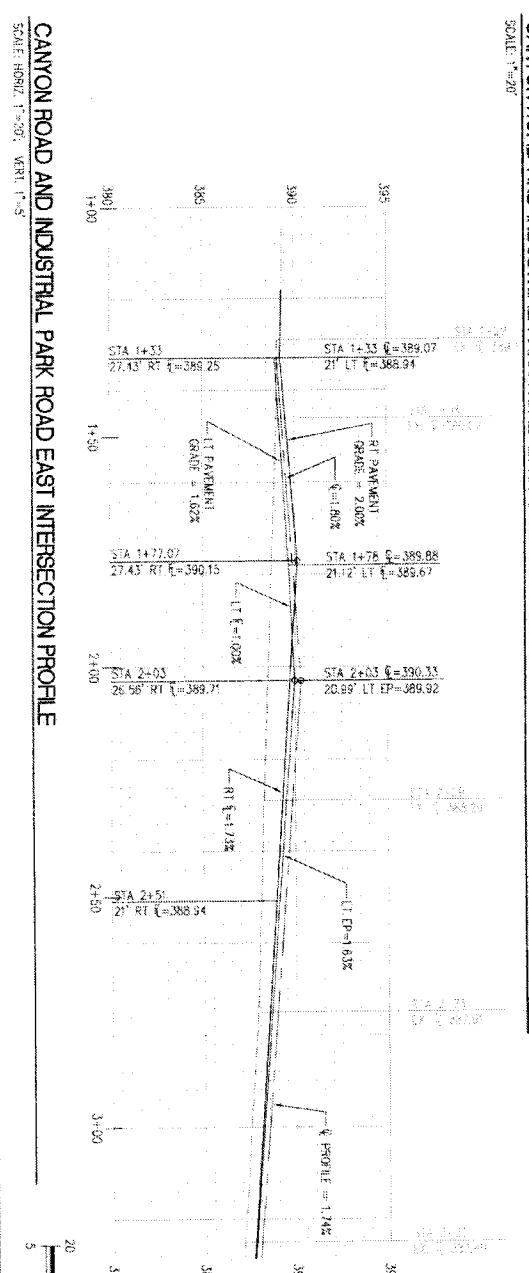
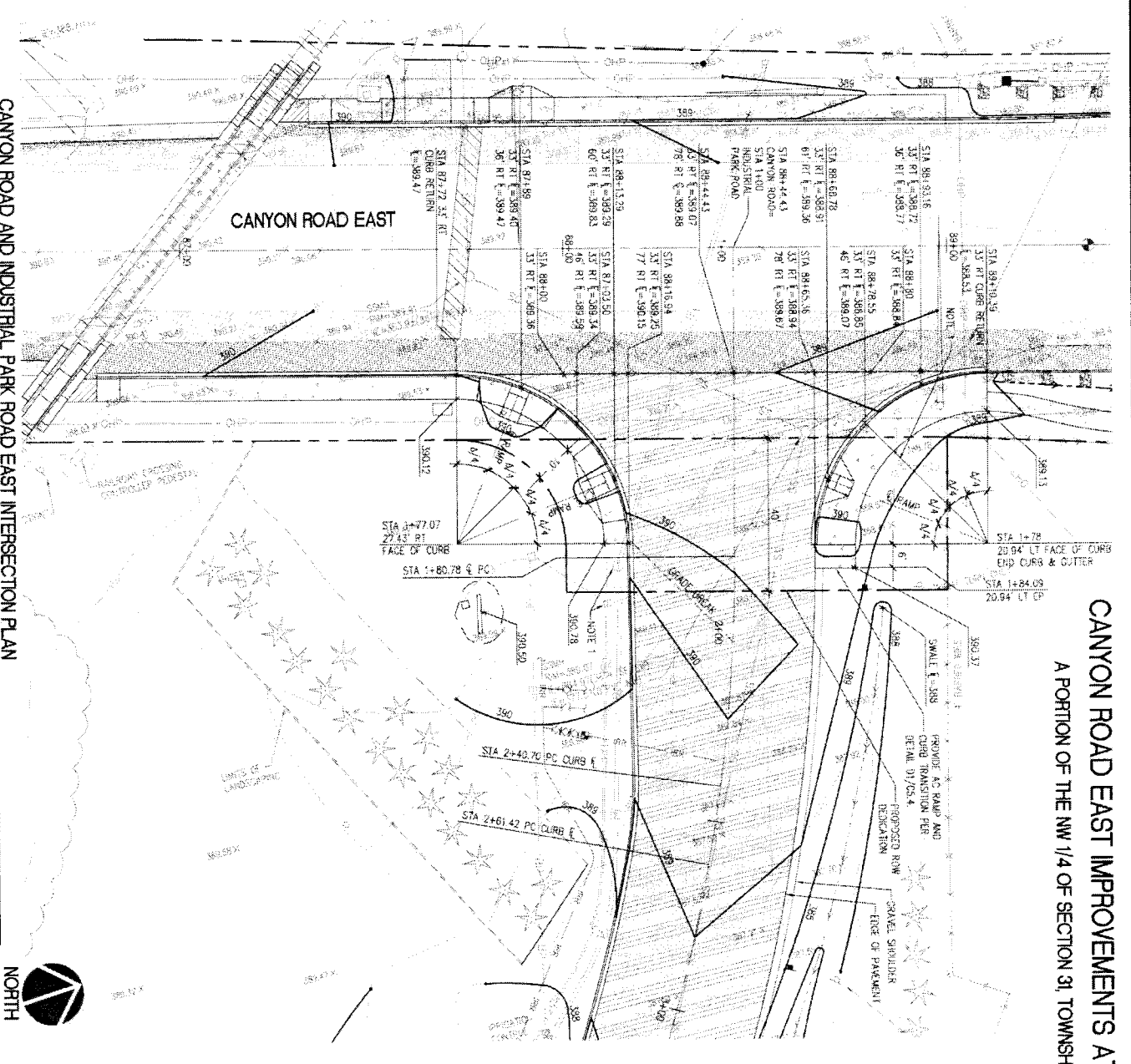
CHECKED BY: R.H.

DATE: 08-09-2012

SCALE: AS NOTED

<p>PROJECT: CANYON ROAD SIGNALIZATION AT FREDERICKSON INDUSTRIAL PARK</p> <p>SHEET NO: C2.2</p> <p>15280</p>	<p>PREPARED FOR: THE BOEING COMPANY</p> <p>P.O. BOX 3707</p> <p>SEATTLE WA 98124-2207</p>	<p>PREPARED BY: SITTS & HILL ENGINEERS, INC.</p> <p>CIVIL • STRUCTURAL • SURVEYING</p> <p>4815 CENTER STREET TACOMA, WA 98409</p> <p>PHONE: (253) 474-9449 FAX: (253) 474-0153</p> <p>http://www.sitts-hill-engineers.com/</p>	<p>APPROVALS:</p> <p>DESIGNED: R.C.H.</p> <p>DRAWN: J.M.W.</p> <p>CHECKED: R.H.</p> <p>DATE: 08-09-2012</p> <p>SCALE: AS NOTED</p>	<p>REVISIONS:</p>
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CANYON ROAD EAST IMPROVEMENTS AT FREDERICKSON INDUSTRIAL PARK ROAD EAST
 A PORTION OF THE NW 1/4 OF SECTION 31, TOWNSHIP 19 NORTH, RANGE 4 EAST, WA. PIERCE COUNTY, WASHINGTON



PUBLIC IMPROVEMENTS

DATE: 08/09/12

PROJECT NO: 27-921 B

APP(S) NO: 735030

2008-585

DESIGNED BY: BEL FREDERSON

DRAWN BY: J.M.W.

CHECKED BY: R.H.

DATE: 08-08-2012

SCALE: AS NOTED

LEGEND

- ASPHALT CLOSURE STRIP
- ASPHALT OVERLAY
- CONCRETE SURFACING
- INDUSTRIAL PARK ROAD PAVEMENT SECTION
- GRAVEL SHOULDER
- UTILITY PATCH
- THROUGH CURB INLET
- RELOCATED STREET LIGHT
- RELOCATED SIGN
- SIGNAL POLE WITH POST BOTTOM LOCATION
- PEDESTRIAN PUSH-BUTTON AND PILE
- TRAFFIC CONTROLLER

NOTES

1. ADJUST RWS OF ALL EXISTING UTILITY STRUCTURES WITH THE PROPOSED ASPHALT PAVEMENT, GRAVEL SHOULDER, HANGDOWN AND SIGNAL SIGN SWALE LIMITS TO MATCH PROPOSED FINISH GRADE.

PROJECT: CANYON ROAD SIGNALIZATION AT FREDERICKSON INDUSTRIAL PARK SHEET NO: C25 PROJECT NO: 15280	PREPARED FOR: THE BOEING COMPANY P.O. BOX 3707 SEATTLE WA 98124-2207	PREPARED BY: SITTS & HILL ENGINEERS, INC. CIVIL • STRUCTURAL • SURVEYING 4815 CENTER STREET TACOMA, WA, 98409 PHONE: (253) 474-9449 FAX: (253) 474-0153 http://www.sitts-hill-engineers.com	SEAL: [Professional Engineer Seal] DATE: 08/09/12	APPROVALS: DESIGNED: R.C.H., DRAWN: J.M.W., CHECKED: R.H., DATE: 08-08-2012, SCALE: AS NOTED	REVISIONS:
	PROJECT TITLE: CANYON ROAD AND INDUSTRIAL PARK ROAD EAST INTERSECTION PLAN AND PROFILE				

CANYON ROAD EAST IMPROVEMENTS AT FREDERICKSON INDUSTRIAL PARK ROAD EAST
 A PORTION OF THE NW 1/4 OF SECTION 31, TOWNSHIP 19 NORTH, RANGE 4 EAST, W.M. PIERCE COUNTY, WASHINGTON

PUBLIC IMPROVEMENTS

PROJECT NUMBER: 2008-595

DATE: 08/05/12

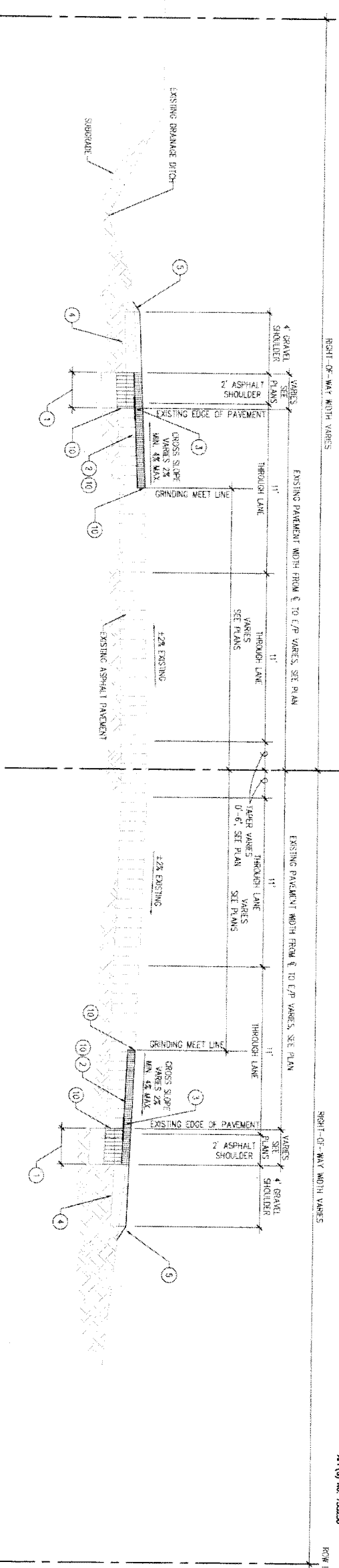
PROJECT LOCATION: FREDERICKSON INDUSTRIAL PARK, WASHINGTON

PROJECT DESCRIPTION: IMPROVEMENTS TO CANYON ROAD EAST

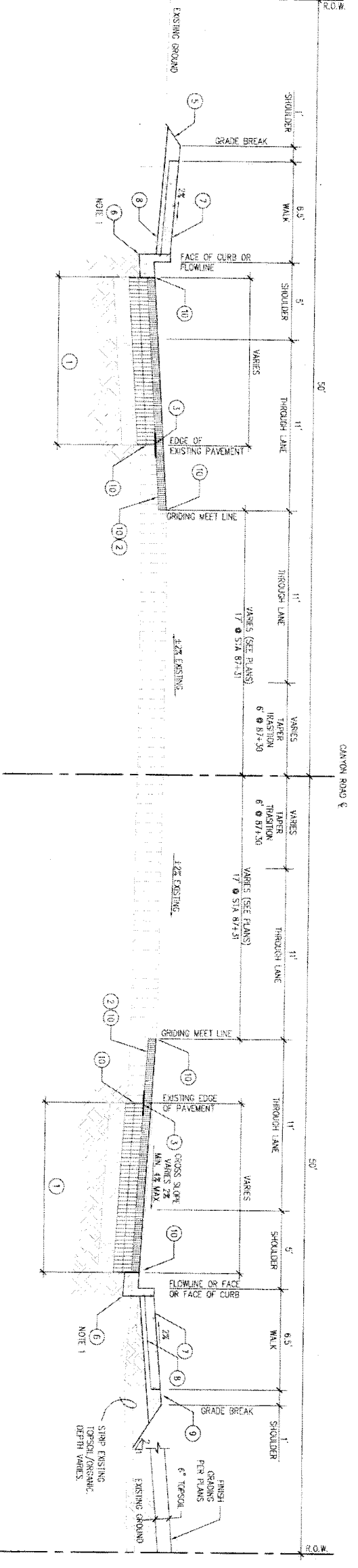
PROJECT OWNER: THE BOEING COMPANY

PROJECT ENGINEER: SITTS & HILL ENGINEERS, INC.

PROJECT NO.: 15280



B1 TYPICAL CANYON ROAD SECTION WITH OPEN DRAINAGE - STATION 84+61 TO STATION 87+116 LT / 86+66± RT
 SCALE: 1" = 4' HORIZONTAL, 1" = 2' VERTICAL



D1 TYPICAL CANYON ROAD SECTION WITH CURB AND GUTTER - STATION 87+27± LT TO STATION 89+28± LT AND STATIONS 86+78± RT TO STATION 89+10± RT
 SCALE: N.T.S.

LEGEND

1. PROPOSE ASPHALT PAVEMENT CLOSURE STRIP PER SECTION 07/05.3 TOP OF PROPOSED CLOSURE STRIP PAVEMENT SHALL BE 1" BELOW FINISH GRADE TO ACCOMMODATE 3" PROPOSED OVERLAY.
2. 3" NOMINAL THICKNESS ASPHALT OVERLAY. ASPHALT THICKNESS MAY VARY ACROSS SECTION. SEE PROFILES AND DETAIL 02/05.3.
3. REINFORCING SYSTEM OR APPROVED EQUAL. SEE DETAIL 01/05.3.
4. PROPOSE CURBED SURFACING SHOULDER PER SECTION 07/05.3.
5. FEATHER ADDITIONAL CURBED SURFACING AT 24:1V MAX TO MATCH INTO EXISTING GRADES.
6. PROPOSE CURBED CONCRETE TRAFFIC CURB AND GUTTER PER DETAIL 02/05.5.
7. PROPOSE CURBED CONCRETE SIDEWALK PER DETAIL 01/05.5.
8. PROPOSE 2" DEPTH CRUSHED SURFACING TOP COURSE.
9. PROPOSE 6" DEPTH CRUSHED SURFACING TOP COURSE.
10. ASPHALT TO THICK COAT JOINT BELT LINES/SEAMS FROM TO AC PLACEMENT PER DETAIL A1/05.3.
11. DISTRESSBAR PARR AC SECTION PER DETAIL A2/05.3.
12. VERTICAL CURBED CONCRETE TRAFFIC CURB PER DETAIL 04/05.5. CURB BELTS AT PLAN LOCATIONS PER DETAIL 02/05.3.

NOTES

1. PROPOSE CURB AND GUTTER AT PLAN LOCATIONS.
2. PROPOSE VERTICAL CURB AT PLAN LOCATIONS.
3. PROPOSE SAWCUT AND AC WEARING BETWEEN STATIONS 89+10 AND 89+25 PER PLANS. SAWCUT ENDS AT STATION 89+25 PER PLANS.

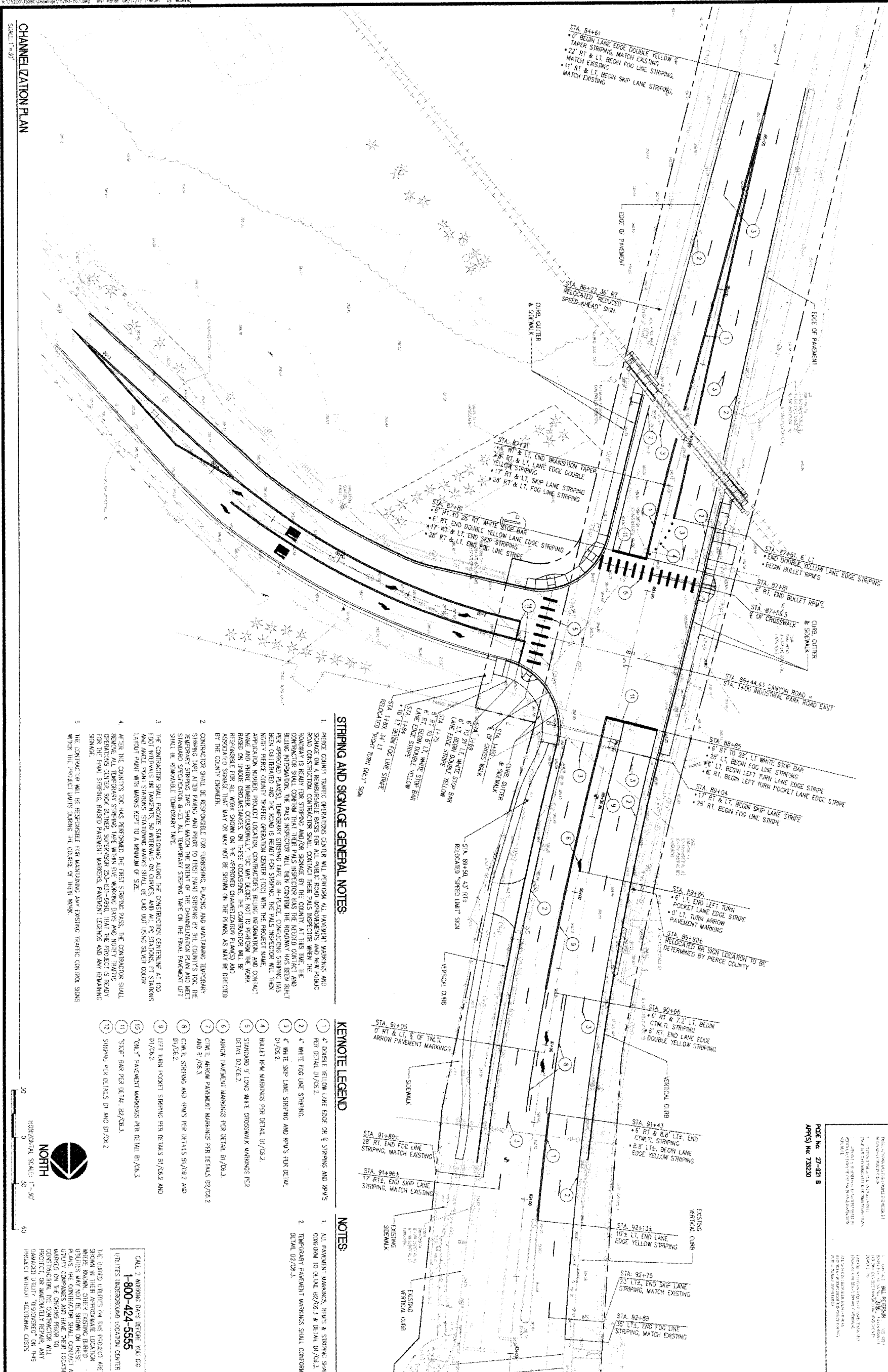
<p>PROJECT: CANYON ROAD SIGNALIZATION AT FREDERICKSON INDUSTRIAL PARK</p> <p>PREPARED FOR: THE BOEING COMPANY P.O. BOX 3707 SEATTLE WA 98124-2207</p>	<p>PREPARED BY: SITTS & HILL ENGINEERS, INC. CIVIL • STRUCTURAL • SURVEYING 4815 CENTER STREET TACOMA, WA 98409 PHONE: (253) 474-9449 FAX: (253) 474-0153 http://www.sitts-hill-engineers.com/</p>	<p>SCALE: AS NOTED</p>	<p>APPROVALS:</p> <p>DESIGNED: R.C.H. DRAWN: J.M.W. CHECKED: R.C.H. DATE: 08-05-2012 SCALE: AS NOTED</p>	<p>REVISIONS:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>NO.</th> <th>DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	NO.	DESCRIPTION				
NO.	DESCRIPTION									

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CANYON ROAD EAST IMPROVEMENTS AT FREDERICKSON INDUSTRIAL PARK ROAD EAST
 A PORTION OF THE NW 1/4 OF SECTION 31, TOWNSHIP 19 NORTH, RANGE 4 EAST, W.M. PIERCE COUNTY, WASHINGTON

PUBLIC IMPROVEMENTS	
DATE	BY
2008-595	SKILL PERCEC
<small>1. ALL WORK SHALL BE IN ACCORDANCE WITH THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS, LATEST EDITION, UNLESS OTHERWISE SPECIFIED. 2. ALL WORK SHALL BE IN ACCORDANCE WITH THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS, LATEST EDITION, UNLESS OTHERWISE SPECIFIED. 3. ALL WORK SHALL BE IN ACCORDANCE WITH THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS, LATEST EDITION, UNLESS OTHERWISE SPECIFIED. 4. ALL WORK SHALL BE IN ACCORDANCE WITH THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS, LATEST EDITION, UNLESS OTHERWISE SPECIFIED.</small>	

POE No. 27-821 B
 APP(S) No. 73330



STRIPING AND SIGNAGE GENERAL NOTES:

1. PIERCE COUNTY TRAFFIC OPERATIONS CENTER WILL PERFORM ALL PAVERS MARKINGS AND SIGNAGE ON A REMUNERABLE BASIS FOR ALL PUBLIC ROAD IMPROVEMENTS AND NEW PUBLIC ROAD CONSTRUCTION. CONTRACTOR SHALL CONTACT TRAFFIC OPERATIONS CENTER WHEN THE ROADWAY IS READY FOR STRIPING AND/OR SIGNAGE BY THE COUNTY AT THAT TIME. THE CONTRACTOR SHALL CONVEY THAT THERE HAS BEEN NO CHANGE IN THE ROADWAY AND THAT THE ROADWAY IS READY FOR STRIPING AND/OR SIGNAGE. THE CONTRACTOR SHALL PROVIDE A LIST OF ALL CHANGES TO THE ROADWAY AND THE LIST OF ALL CHANGES TO THE ROADWAY SHALL BE SUBMITTED TO THE COUNTY INSPECTOR WITH THE PROJECT NAME, APPLICATION NUMBER, PROJECT LOCATION, CONTRACTOR'S BELIEF IN PERMANENT AND CONTACT NAME AND PHONE NUMBER. OCCASIONALLY, THE COUNTY MAY DECIDE NOT TO PERFORM THE WORK BASED ON UNIQUE CIRCUMSTANCES. ON THESE OCCASIONS, THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL WORK SHOWN ON THE APPROVED CHANNELIZATION PLANS AND ASSOCIATED SIGNAGE THAT MAY OR MAY NOT BE SHOWN ON THE PLANS, AS MAY BE DIRECTED BY THE COUNTY ENGINEER.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR DIMENSIONING, PLACING AND MAINTAINING TEMPORARY STRIPING TAPE AFTER PAVERS AND PRIOR TO FIRST PAINT STRIPING BY THE COUNTY. THE TEMPORARY STRIPING TAPE SHALL MATCH THE INTENT OF THE CHANNELIZATION PLAN AND MEET STANDARD SPECIFICATION B-23. ALL TEMPORARY STRIPING TAPE ON THE FINAL PAVEMENT LIFT SHALL BE REMOVABLE TEMPORARY TAPE.
3. THE CONTRACTOR SHALL PROTECT STATIONING ALONG THE CONSTRUCTION EXTERMINATE AT 100 FOOT INTERVALS. THE CONTRACTOR SHALL PROTECT STATIONING AT ALL STATIONS AND ALL PAVEMENT STATIONS. STATIONING MARKS SHALL BE LAD OUT USING SILVER COLOR LAZY PAINT WITH MARKS KEPT TO A MINIMUM OF SIZE.
4. AFTER THE COUNTY TOP HAS PERFORMED THE FIRST STRIPING PASS, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY STRIPING TAPE WITHIN FIVE WORKING DAYS AND NOTIFY TRAFFIC OPERATIONS CENTER, ROAD ENGINEER, SUPERVISOR (253-531-5550), THAT THE PROJECT IS READY FOR THE FINAL STRIPING, PAVED PAVEMENT MARKINGS, PAVEMENT LEGENDS AND ANY REMAINING SIGNAGE.
5. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING ANY EXISTING TRAFFIC CONTROL SIGNS WHEN THE PROJECT LIMITS DURING THE COURSE OF THEIR WORK.

KEYNOTE LEGEND

1. DOUBLE YELLOW LANE EDGE OR S STRIPING AND SPWS PER DETAIL D7/05.2
2. WHITE STOP BAR PER DETAIL D7/05.2
3. WHITE STOP BAR PER DETAIL D7/05.2
4. WHITE STOP BAR PER DETAIL D7/05.2
5. BULLET PAVERS MARKINGS PER DETAIL D7/05.2
6. STANDARD 9' LONG WHITE CROSSWALK MARKINGS PER DETAIL D7/05.2
7. ARROW PAVEMENT MARKINGS PER DETAIL B7/05.3
8. CURB LINE PAVEMENT MARKINGS PER DETAIL B7/05.2
9. CURB LINE PAVEMENT MARKINGS PER DETAIL B7/05.2
10. CURB LINE PAVEMENT MARKINGS PER DETAIL B7/05.2
11. CURB LINE PAVEMENT MARKINGS PER DETAIL B7/05.2
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17. CURB LINE PAVEMENT MARKINGS PER DETAIL B7/05.2
18. CURB LINE PAVEMENT MARKINGS PER DETAIL B7/05.2
19. CURB LINE PAVEMENT MARKINGS PER DETAIL B7/05.2
20. CURB LINE PAVEMENT MARKINGS PER DETAIL B7/05.2

NOTES:

1. ALL PAVEMENT MARKINGS, SPWS & STRIPING SHALL CONFORM TO DETAIL D7/05.3 & DETAIL D7/05.3.
 2. TEMPORARY PAVEMENT MARKINGS SHALL CONFORM TO DETAIL D7/05.3.
- CALL 2 WORKING DAYS BEFORE YOU BEG
 1-800-424-5555
 VISITERS INFORMATION LOCATION CENTER
- THE ABOVE UTILITIES ON THIS PROJECT ARE SHOWN IN THEIR APPROXIMATE LOCATION. UTILITIES MAY NOT BE SHOWN ON THESE PLANS. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES AND HAVE THEIR LOCATION MARKED ON THE GROUND PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES OCCURRING ON THIS PROJECT. VERIFY ALL UTILITIES BEFORE ANY PROJECT WORK BEGINS.

CHANNELIZATION PLAN
 SCALE: 1"=40'



PROJECT: CANYON ROAD SIGNALIZATION AT FREDERICKSON INDUSTRIAL PARK SHEET NO: C6.1 PROJECT NO: 15280	PREPARED FOR: THE BOEING COMPANY P.O. BOX 3707 SEATTLE WA 98124-2207	PREPARED BY: SITTS & HILL ENGINEERS, INC. CIVIL • STRUCTURAL • SURVEYING 4815 CENTER STREET TACOMA, WA 98409 PHONE: (253) 474-9449 FAX: (253) 474-0153 http://www.sitts-hill-engineers.com/	REAL: [Signature] APPROVALS: [Signature] DESIGNED: D.D. DRAWN: K.L.C. CHECKED: R.H. DATE: 08-15-2012 SCALE: AS NOTED	REVISIONS: