

TR-143170.

**Hunter, Kathy (UTC)**

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**From:** Moore, Chuck A <Chuck.Moore@bnsf.com>  
**Sent:** Friday, October 10, 2014 11:32 AM  
**To:** Hunter, Kathy (UTC)  
**Cc:** Wagner, Richard W  
**Subject:** FW: Spruce street drawing  
**Attachments:** Spruce St Burlington.pdf

Kathy

Attached are the signalization drawings for Spruce St.

*Chuck Moore*  
206-625-6211



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**From:** Cruttenden, William E  
**Sent:** Friday, October 10, 2014 11:12 AM  
**To:** Moore, Chuck A  
**Subject:** Spruce street drawing

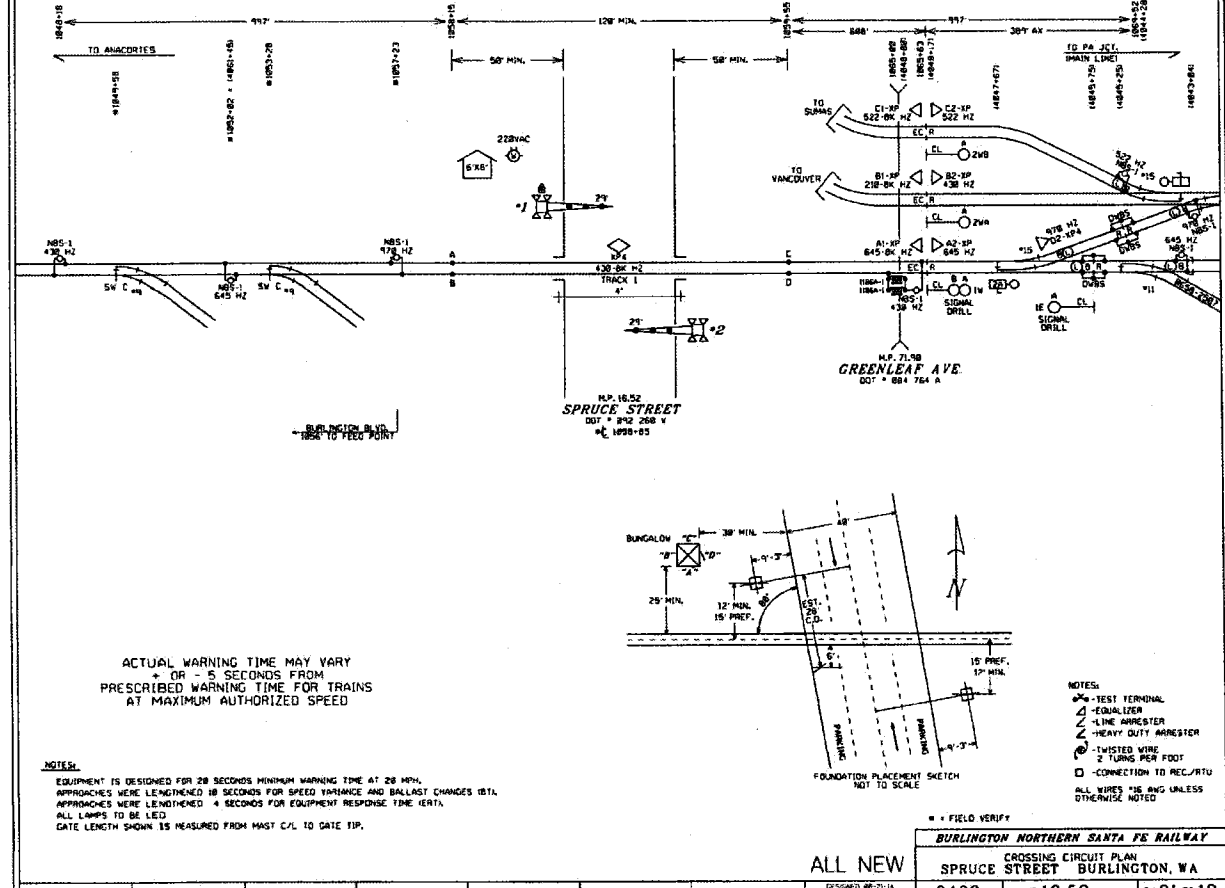
Here is the drawing you requested

*William E Cruttenden*

Manager Signals Seattle  
Northwest Division

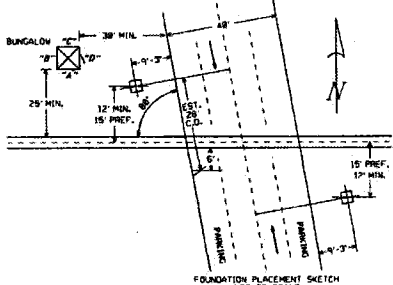
**BNSF Railway** – 2454 Occidental Ave South Seattle Wa 98134 |  Office: 206-625-6231 |  Cell: 425-212-8002 | Fax: 206-625-6237 | Email: [William.Cruttenden@bnsf.com](mailto:William.Cruttenden@bnsf.com)

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ACTUAL WARNING TIME MAY VARY  
 + OR - 5 SECONDS FROM  
 PRESCRIBED WARNING TIME FOR TRAINS  
 AT MAXIMUM AUTHORIZED SPEED

**NOTES:**  
 EQUIPMENT IS DESIGNED FOR 20 SECONDS MINIMUM WARNING TIME AT 28 MPH.  
 APPROACHES WERE LENGTHENED 10 SECONDS FOR SPEED VARIANCE AND BALLAST CHANGES (BTL).  
 APPROACHES WERE LENGTHENED 4 SECONDS FOR EQUIPMENT RESPONSE TIME (ERT).  
 ALL LAMPS TO BE LED.  
 GATE LENGTH SHOWN IS MEASURED FROM MAST C/L TO GATE TIP.



- NOTES:**
- - TEST TERMINAL
  - △ - EQUALIZER
  - ∠ - LINE ARRESTER
  - ⌋ - HEAVY DUTY ARRESTER
  - ⊗ - TWISTED WIRE 2 TURNS PER FOOT
  - - CONNECTION TO REC./RTU
  - ALL WIRES #16 AWG UNLESS OTHERWISE NOTED

BURLINGTON NORTHERN SANTA FE RAILWAY  
 CROSSING CIRCUIT PLAN  
 SPRUCE STREET BURLINGTON, WA

ALL NEW

LS 0409 MP 16.52 SW 01 OF 12  
 PRELIMINARY