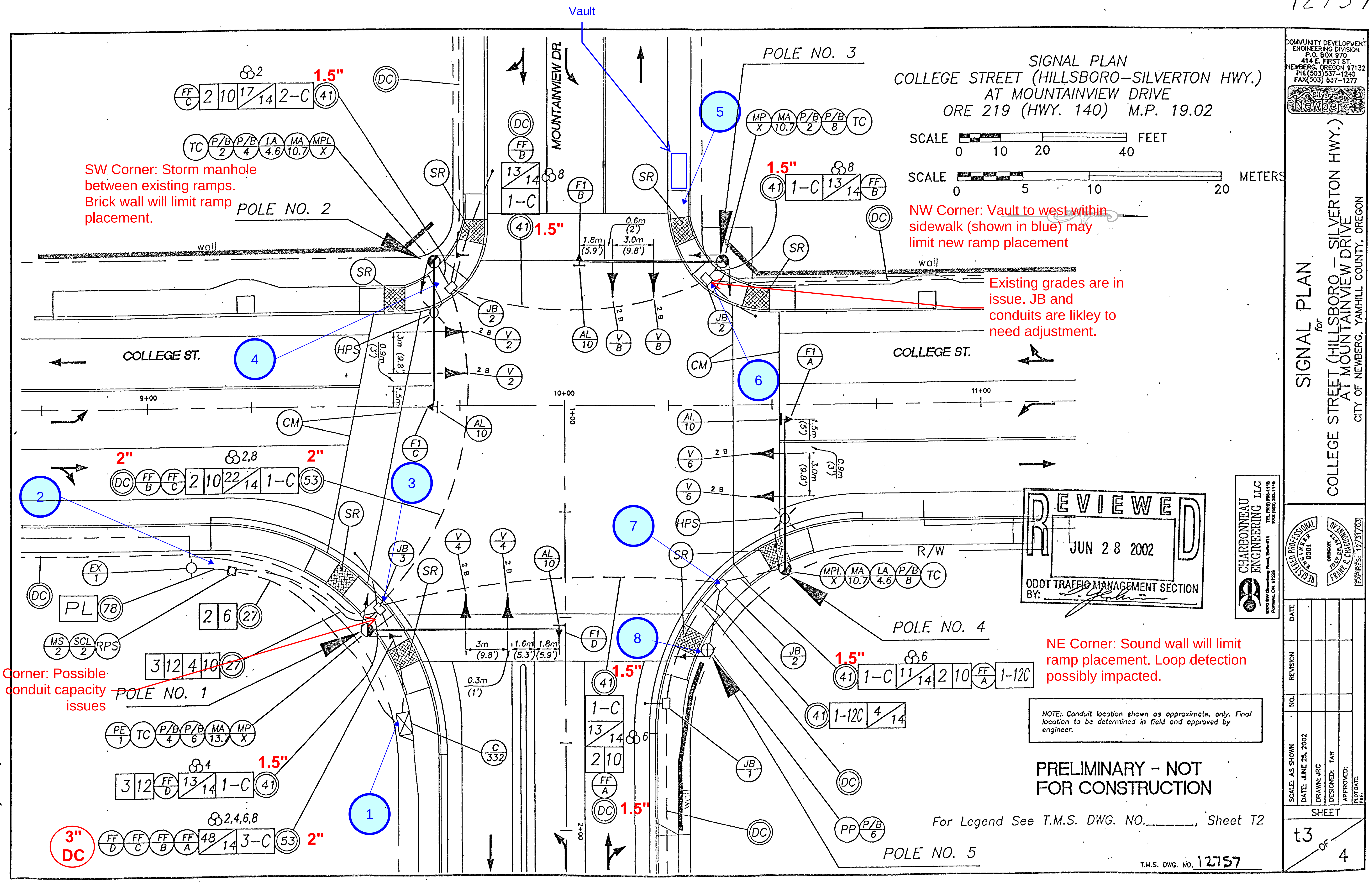
12757



SIGNAL PLAN
COLLEGE STREET (HILLSBORO–SILVERTON HWY.)
AT MOUNTAINVIEW DRIVE
ORE 219 (HWY. 140) M.P. 19.02
SCALE 0 10 20 40 FEET
SCALE 0 5 10 20 METERS
Vault
POLE NO. 3
POLE NO. 2
POLE NO. 1
POLE NO. 4
POLE NO. 5
MOUNTAINVIEW DR.
COLLEGE ST.
COLLEGE ST.
wall
wall
R/W
SW Corner: Storm manhole between existing ramps. Brick wall will limit ramp placement.
NW Corner: Vault to west within sidewalk (shown in blue) may limit new ramp placement
Existing grades are in issue. JB and conduits are likley to need adjustment.
NE Corner: Sound wall will limit ramp placement. Loop detection possibly impacted.
SE Corner: Possible conduit capacity issues
1.5"
2"
3" DC
REVIEWED
JUN 28 2002
ODOT TRAFFIC MANAGEMENT SECTION
BY:
NOTE: Conduit location shown as approximate, only. Final location to be determined in field and approved by engineer.
PRELIMINARY - NOT FOR CONSTRUCTION
For Legend See T.M.S. DWG. NO.______, Sheet T2
T.M.S. DWG. NO. 12757
COMMUNITY DEVELOPMENT ENGINEERING DIVISION
P.O. BOX 970
414 E. FIRST ST.
NEWBERG, OREGON 97132
PH.(503)537-1240
FAX(503) 537-1277
City of Newberg
SIGNAL PLAN for COLLEGE STREET (HILLSBORO – SILVERTON HWY.) AT MOUNTAINVIEW DRIVE
CITY OF NEWBERG, YAMHILL COUNTY, OREGON
CHARBONNEAU ENGINEERING LLC
REGISTERED PROFESSIONAL ENGINEER
OREGON
FRANK R. CHARBONNEAU
EXPIRES: 12/31/03
SCALE: AS SHOWN
DATE: JUNE 25, 2002
DRAWN: JRC
DESIGNED: TAR
APPROVED:
DATE
REVISION
NO.
SHEET
t3 OF 4

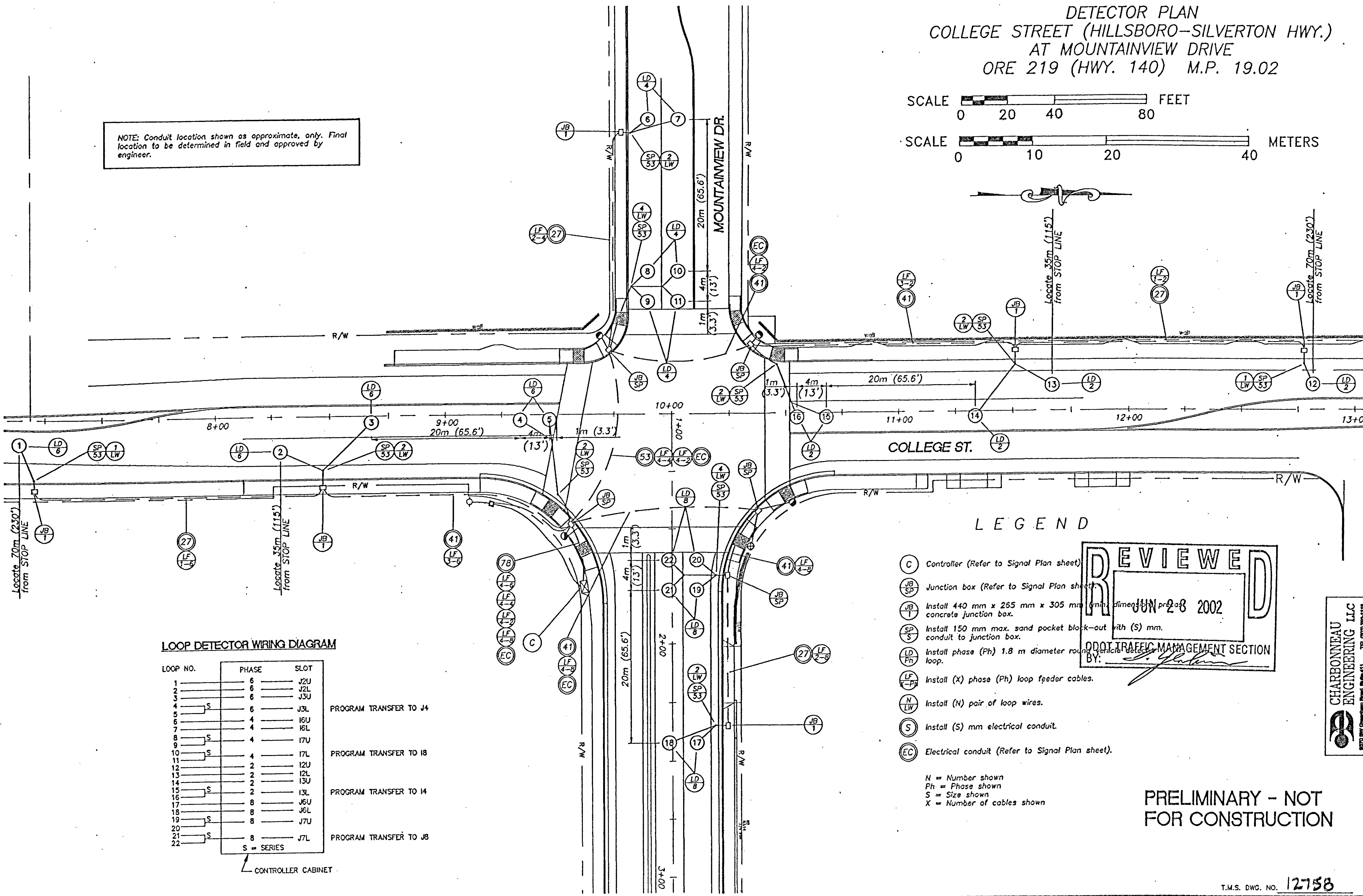
12758

DETECTOR PLAN
COLLEGE STREET (HILLSBORO–SILVERTON HWY.) AT MOUNTAINVIEW DRIVE
ORE 219 (HWY. 140) M.P. 19.02

SCALE 0 20 40 80 FEET

SCALE 0 10 20 40 METERS

NOTE: Conduit location shown as approximate, only. Final location to be determined in field and approved by engineer.



LOOP DETECTOR WIRING DIAGRAM

LOOP NO.	PHASE	SLOT	
1	6	J2U	
2	6	J2L	
3	6	J3U	
4, 5 (S)	6	J3L	PROGRAM TRANSFER TO J4
6	4	I6U	
7	4	I6L	
8, 9 (S)	4	I7U	
10, 11 (S)	4	I7L	PROGRAM TRANSFER TO I8
12	2	I2U	
13	2	I2L	
14	2	I3U	
15, 16 (S)	2	I3L	PROGRAM TRANSFER TO I4
17	8	J6U	
18	8	J6L	
19, 20 (S)	8	J7U	
21, 22 (S)	8	J7L	PROGRAM TRANSFER TO J8

S = SERIES

CONTROLLER CABINET

LEGEND

- C — Controller (Refer to Signal Plan sheet).
- JB/SP — Junction box (Refer to Signal Plan sheet).
- JB/1 — Install 440 mm x 265 mm x 305 mm (min. dimension) precast concrete junction box.
- SP/S — Install 150 mm max. sand pocket block-out with (S) mm. conduit to junction box.
- LD/Ph — Install phase (Ph) 1.8 m diameter round vehicle detector loop.
- LF/X–Ph — Install (X) phase (Ph) loop feeder cables.
- N/LW — Install (N) pair of loop wires.
- S — Install (S) mm electrical conduit.
- EC — Electrical conduit (Refer to Signal Plan sheet).

N = Number shown
Ph = Phase shown
S = Size shown
X = Number of cables shown

REVIEWED
JUN 28 2002
ODOT TRAFFIC MANAGEMENT SECTION
BY:

PRELIMINARY - NOT FOR CONSTRUCTION

T.M.S. DWG. NO. 12758

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City of Newberg

DETECTOR PLAN for COLLEGE STREET (HILLSBORO – SILVERTON HWY.) AT MOUNTAINVIEW DRIVE
CITY OF NEWBERG, YAMHILL COUNTY, OREGON

REGISTERED PROFESSIONAL ENGINEER 9301
OREGON JULY 22, 1977
FRANK R. CHARBONNEAU
EXPIRES: 12/31/03

NO.	REVISION	DATE

SCALE: AS SHOWN
DATE: JUNE 25, 2002
DRAWN: JRC
DESIGNED: TAR
APPROVED:
PLOT DATE:
FILE:

SHEET t4 OF 4

SIGNAL LEGEND AND DETAILS
COLLEGE STREET (HILLSBORO-SILVERTON HWY.) AT MOUNTAINVIEW DRIVE
ORE 219 (HWY. 140) M.P. 19.02

LEGEND

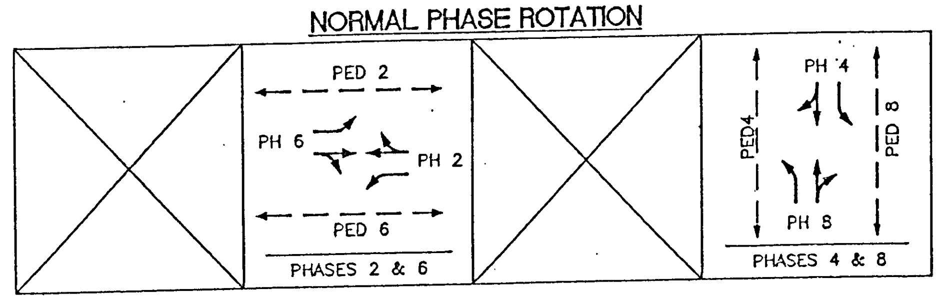
- (C/332) Install model 170 controller in model 332 cabinet with riser frame. Orient front (louvered) door as shown. Construct foundation as per Standard Dwg. No. TM423.
- (MP/X) Install special (non-standard) traffic signal mast arm pole.
- (MPL/X) Install special (non-standard) traffic signal mast arm pole with luminaire pole extension. Luminaire mounting height = 40 ft (12.2 M).
- (LA/L) Install (L) meter luminaire arm.
- (MA/L) Install (L) meter traffic signal mast arm.
- (V/Ph) Install phase (Ph) vehicle signal with LEDs.
- (P/B/Ph) Install phase (Ph) pedestrian signal with LEDs, pushbutton, and instruction decals.
- (TC) Install terminal cabinet.
- (JB/1) Install 440 mm x 265 mm x 305 mm (min. dimension) precast concrete junction box.
- (JB/2) Install 560 mm x 305 mm x 305 mm (min. dimension) precast concrete junction box.
- (JB/3) Install 760 mm x 430 mm x 305 mm (min. dimension) precast concrete junction box.
- (FN/Ch) Install channel (Ch), (N) barrel emergency vehicle pre-emption detector unit.
- (FF/Ch) Install channel (Ch) emergency vehicle pre-emption detector feeder cable.
- (PE/1) Install photocontrol electronic relay on pole between 6 m and 10 m above base.
- (S) Install (S) mm electrical conduit. Conduit location shown as approximate, only. Final location to be determined in fieldand approved by engineer.
- (DC) Detector conduit (Refer to Detector Plan).
- (HPS) Install 400 Watt high-pressure sodium luminaire, type M-S-III, 120/240 dual voltage mag-regulator ballast.
- (SCL/2) Install service cabinet, 120/240 Volt, for both signal and illumination circuits.
- (MS/2) Install 120/240 Volt meter base.
- (RPS) Install remote power service post.
- (EX/1) Retain and protect existing utility pole (Power source).
- (CM) Install white Thermoplastic crosswalk markings as per ODOT Standard Specifications Section 02840 and the ODOT Traffic Line Manual.
- PL Install poly pull line (1 kN min. strength)
- N-C Install (N) No. 8 type THWN wires (Signal system common).
- N/G Install (N) No. (G) type THWN wires.
- N G Install (N) No. (G) type XHHW wires.
- (PP) Install pedestrian signal pedestal with frangible base.
- (SR) Install sidewalk ramp (Refer to Std. Dwg. RD725, Option B).
- N-12C Install (N) No. 12 type THWN wire (Pedestrian pedestal common)
- (AL/10) Install aluminum (762 mm x 914 mm, type "W7") "LEFT TURN YIELD TO ONCOMING TRAFFIC" sign (OR 17-1)(diamond grade sheeting).
- Ph Includes 3 spare wires for phase (Ph) as per table.

N = Number shown
Ph = Phase shown
L = Length shown
Ch = Channel shown
S = Size shown
G = AWG size shown
T = Type shown

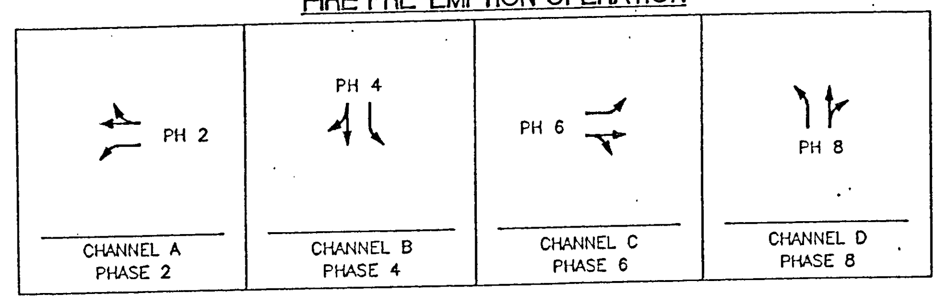
B = Adjustable signal bracket assembly w/ rain cap(s). (Install 25 mm smoth hole w/rubber grommet in lieu of tenon.)

2 = 305 mm R, 305 mm Y, 305 mm 305 mm G.

NORMAL PHASE ROTATION

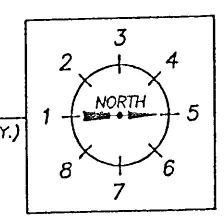


FIRE PRE-EMPTION OPERATION



POLE ENTRANCE CHART

POLE NO.	1	2	3	4	5
Luminaire Arm	–	7	–	3	–
Mast Arm	5	7	1	3	–
Terminal Cabinet	1	3	5	7	–
Ped. Signal Clam Shell	1/7	1/3	3/5	1	3



REVIEWED
JUN 28 2002
COLLEGE ST. (HILLSBORO - SILVERTON HWY.)
ODOT TRAFFIC MANAGEMENT SECTION
BY:

ACCOMPANIED BY DWGS. BR963, BR966 TM403, TM404, TM406, TM407 TM409, TM410, TM416 thru TM419, TM421 thru TM424 TM427, TM428, TMS12566 ? thru TMS12568, RD725

T.M.S. DWG. NO. 12756

CHARBONNEAU ENGINEERING LLC

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City of Newberg

SIGNAL LEGEND AND DETAILS for COLLEGE STREET (HILLSBORO - SILVERTON HWY.) AT MOUNTAINVIEW DRIVE
CITY OF NEWBERG, YAMHILL COUNTY, OREGON

REGISTERED PROFESSIONAL ENGINEER 9301 OREGON FRANK R. CHARBONNEAU
EXPIRES: 12/31/03

NO.	REVISION	DATE

SCALE: AS SHOWN
DATE: JUNE 25, 2002
DRAWN: JRC
DESIGNED: TAR
APPROVED:
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SHEET t2 OF 4