

PHASING DIAGRAM

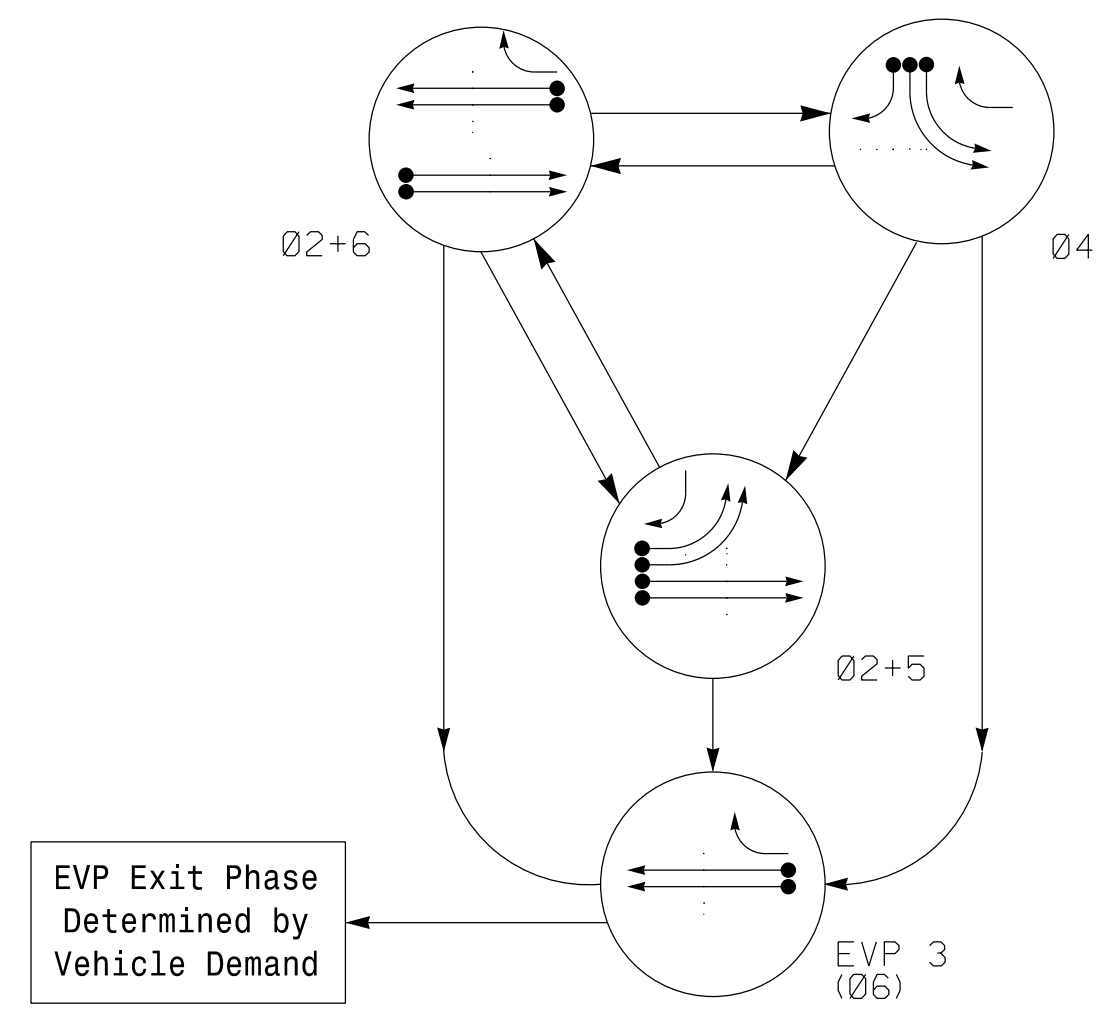
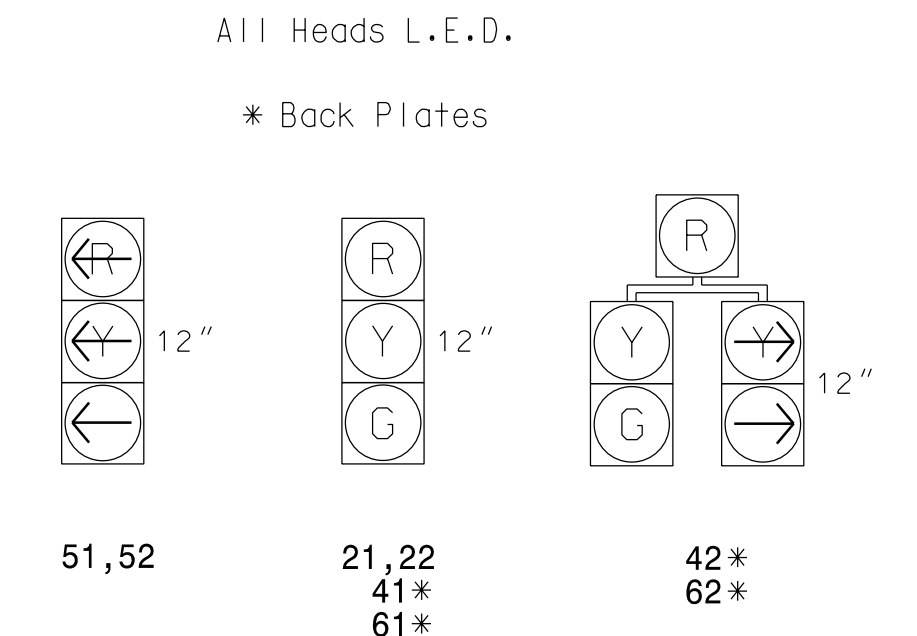


TABLE OF OPERATION

| SIGNAL FACE | PHASE | | | | |
|-------------|-------|-------|-----|-------|-------|
| | Ø 2+5 | Ø 2+6 | Ø 4 | EVP 3 | FLASH |
| 21, 22 | G | G | R | R | Y |
| 41 | R | R | G | R | R |
| 42 | R | R | G | R | R |
| 51, 52 | ← | ← | ← | ← | ← |
| 61 | R | G | R | G | Y |
| 62 | R | G | R | G | Y |

SIGNAL FACE I.D.



OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

| LOOP | SIZE (FT) | DISTANCE FROM STOPBAR (FT) | TURNS | DETECTOR PROGRAMMING | | | | | | | | |
|-------|-----------|----------------------------|-------|----------------------|-------|---------|-----------|-----------------|--------------|------------|-------------|----------|
| | | | | NEW LOOP | PHASE | CALLING | EXTENSION | FULL TIME DELAY | STRETCH TIME | DELAY TIME | SYSTEM LOOP | NEW CARD |
| 2A | 6x6 | 300 | * | Y | 2 | Y | Y | - | - | - | - | * |
| 2B | 6x6 | 300 | * | Y | 2 | Y | Y | - | - | - | - | * |
| 2C | 6x40 | 0 | * | Y | 2 | Y | Y | Y | 2 | 5 | - | * |
| 2D | 6x40 | 0 | * | Y | 2 | Y | Y | Y | 2 | 5 | - | * |
| 4A | 6x60 | 0 | 2-4-2 | - | 4 | Y | Y | - | - | 3 | - | - |
| 4B | 6x60 | 0 | 2-4-2 | - | 4 | Y | Y | - | - | - | - | - |
| 4C | 6x60 | 0 | 2-4-2 | - | 4 | Y | Y | - | - | 15 | - | - |
| 5A | 6x40 | 0 | * | Y | 5 | Y | Y | - | - | - | - | * |
| 5B | 6x40 | 0 | * | Y | 5 | Y | Y | - | - | - | - | * |
| 6A,6B | 6x6 | 300 | EXIST | - | 6 | Y | Y | - | - | - | - | - |

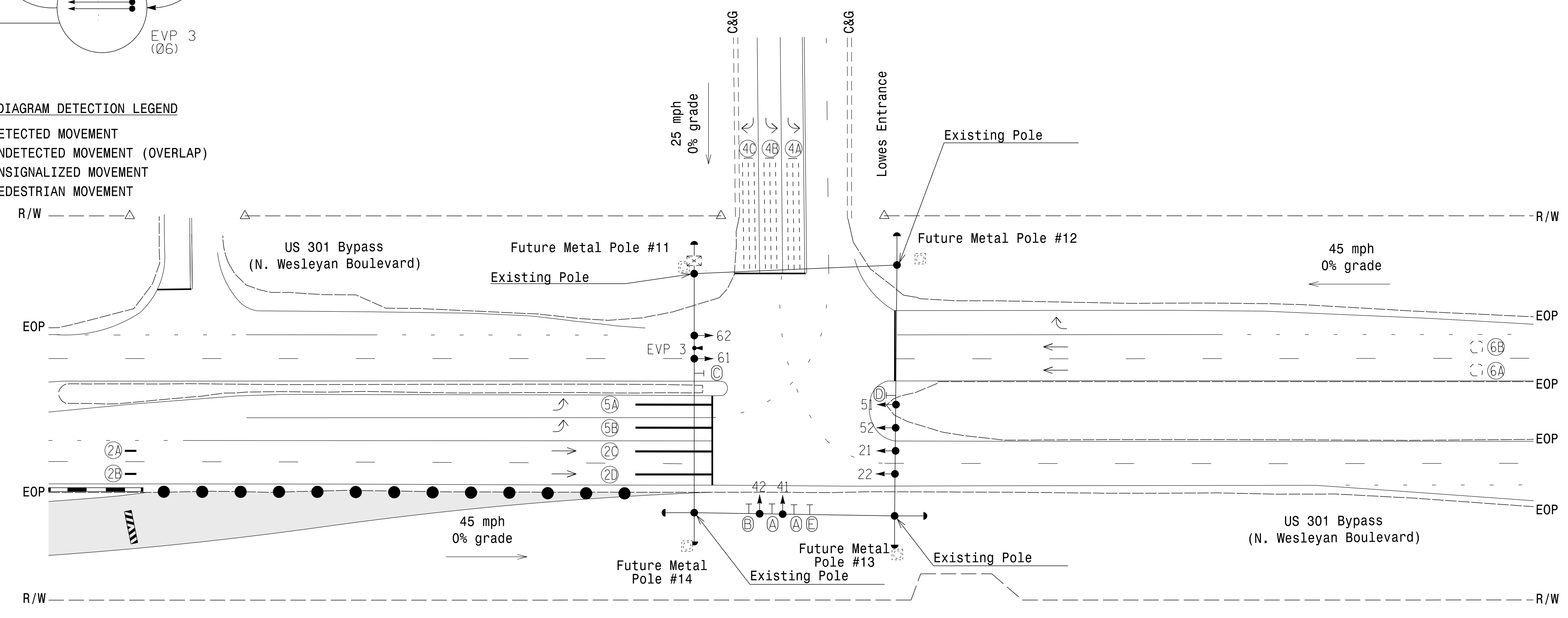
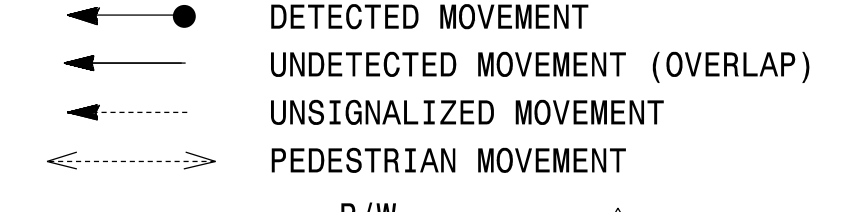
* Video Detection Area

3 Phase W/ EV Preempt Fully Actuated Rocky Mount Signal System

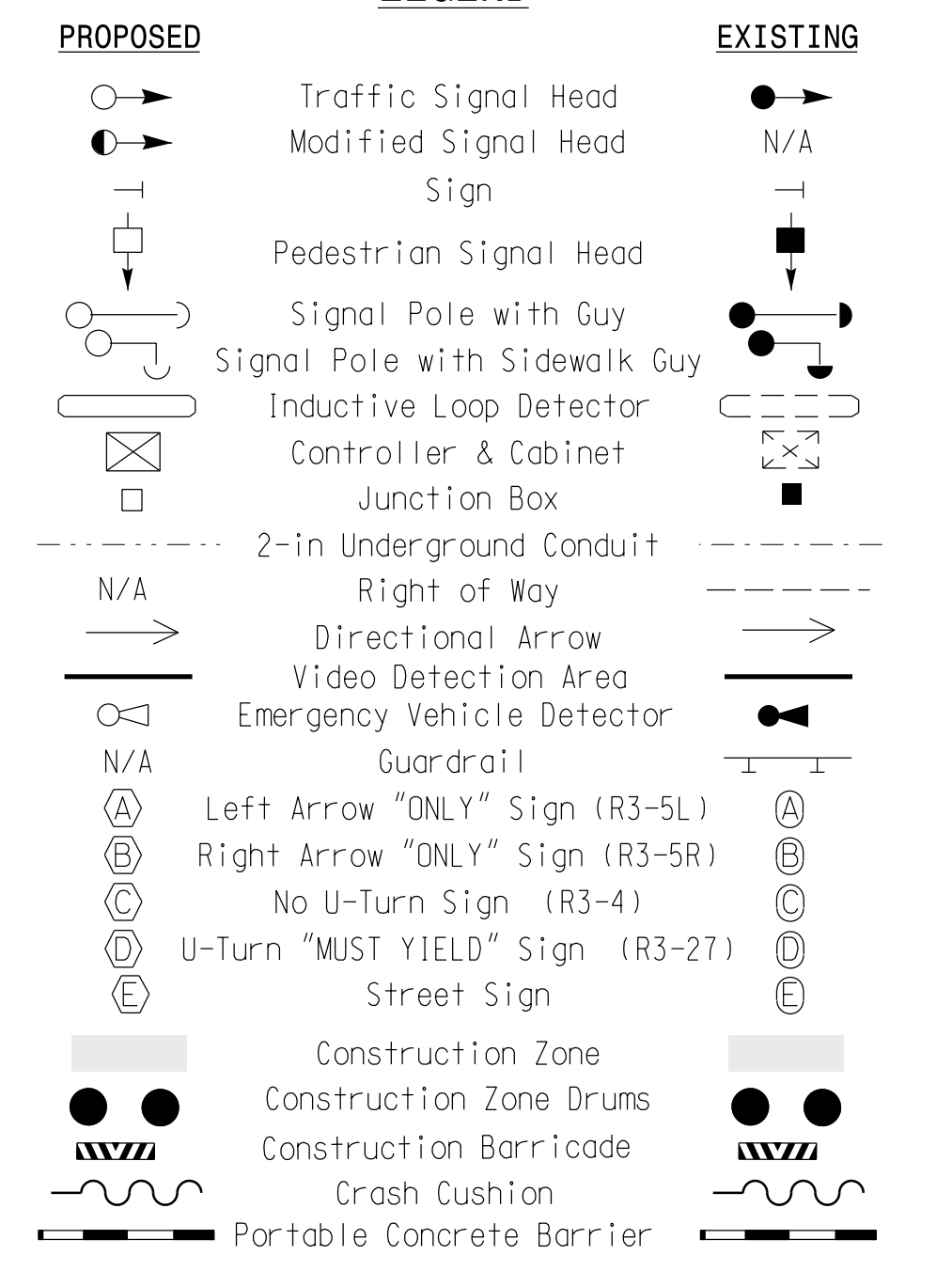
NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Set all detector units and loop emulators to presence mode.
4. Phase 5 may be lagged.
5. This intersection features an optical preemption system. Shown locations of optical detectors are conceptual only.
6. EVP 3 detector is existing. Reuse Phase Selector. See Project Special Provisions.
7. Maximum times shown in timing charts are for free-run operation only. Coordinated signal timing values supersede these values.

PHASING DIAGRAM DETECTION LEGEND



LEGEND



OASIS 2070 TIMING CHART

| FEATURE | PHASE | | | |
|-------------------------|------------|-----|-----|------------|
| | 2 | 4 | 5 | 6 |
| Min Green 1 * | 12 | 7 | 7 | 12 |
| Extension 1 * | 6.0 | 2.0 | 2.0 | 6.0 |
| Max Green 1 * | 90 | 25 | 20 | 90 |
| Yellow Clearance | 4.5 | 3.0 | 3.0 | 4.5 |
| Red Clearance | 1.2 | 3.4 | 3.2 | 1.3 |
| Red Revert | 2.0 | 2.0 | 2.0 | 2.0 |
| Walk 1 * | - | - | - | - |
| Don't Walk 1 | - | - | - | - |
| Seconds Per Actuation * | - | - | - | 1.5 |
| Max Variable Initial * | - | - | - | 34 |
| Time Before Reduction * | 15 | - | - | 15 |
| Time To Reduce * | 30 | - | - | 30 |
| Minimum Gap | 3.0 | - | - | 3.0 |
| Recall Mode | MIN RECALL | - | - | MIN RECALL |
| Vehicle Call Memory | - | - | - | YELLOW |
| Dual Entry | - | - | - | - |
| Simultaneous Gap | ON | ON | ON | ON |

* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

2070 EV PREEMPT

| FUNCTION | PRE 3 |
|---------------------------|-------|
| Interval 1 - Dwell Green | 255 |
| Interval 1 - Dwell Yellow | 0.0* |
| Interval 1 - Dwell Red | 0.0* |
| Interval 5 - Exit Green | 0 |
| Interval 5 - Yellow | 0.0 |
| Interval 5 - Red | 0.0 |
| Exit Phase(s) | - |
| Priority | MED |
| Delay Time | 0.0 |
| Min Green Before Pre | 1 |
| Ped Clear Before Pre | 0 |
| Yellow Clear Before Pre | 0.0* |
| Red Clear Before Pre | 0.0* |
| Dwell Min Time | 12 |
| Enable Backup Protection | N |
| Ped Clear Through Yellow | N |
| Omit Overlaps | - |
| Preempt Extend** | 5 |

* Time defaults to time used for phase during normal operation
** Program Timing on Optical Detection Unit

Signal Upgrade - Temporary Design 1 (Area 2 TMP Phase I)

1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-8888 NOBEE'S #F-0326

US 301 Byp. (N. Wesleyan Blvd) at Lowe's Entrance

Division 04 Nash County Rocky Mount

PLAN DATE: November 2016 REVIEWED BY: MB Toth

PREPARED BY: AM Encarnacion REVIEWED BY:

SEAL

ENGINEER
MELISSA B. TOTH

REVISIONS

| NO. | INIT. | DATE |
|-----|-------|------|
| | | |

Scale: 1"=40'

Signature: Melissa B. Toth, 1/30/2017

SIG. INVENTORY NO. 04-115811

30-JAN-2017 17:35 D:\Projects\2017\01\U-3330\Signal\02-Signal\04-115811.dgn ENG4586 - AT 1059021