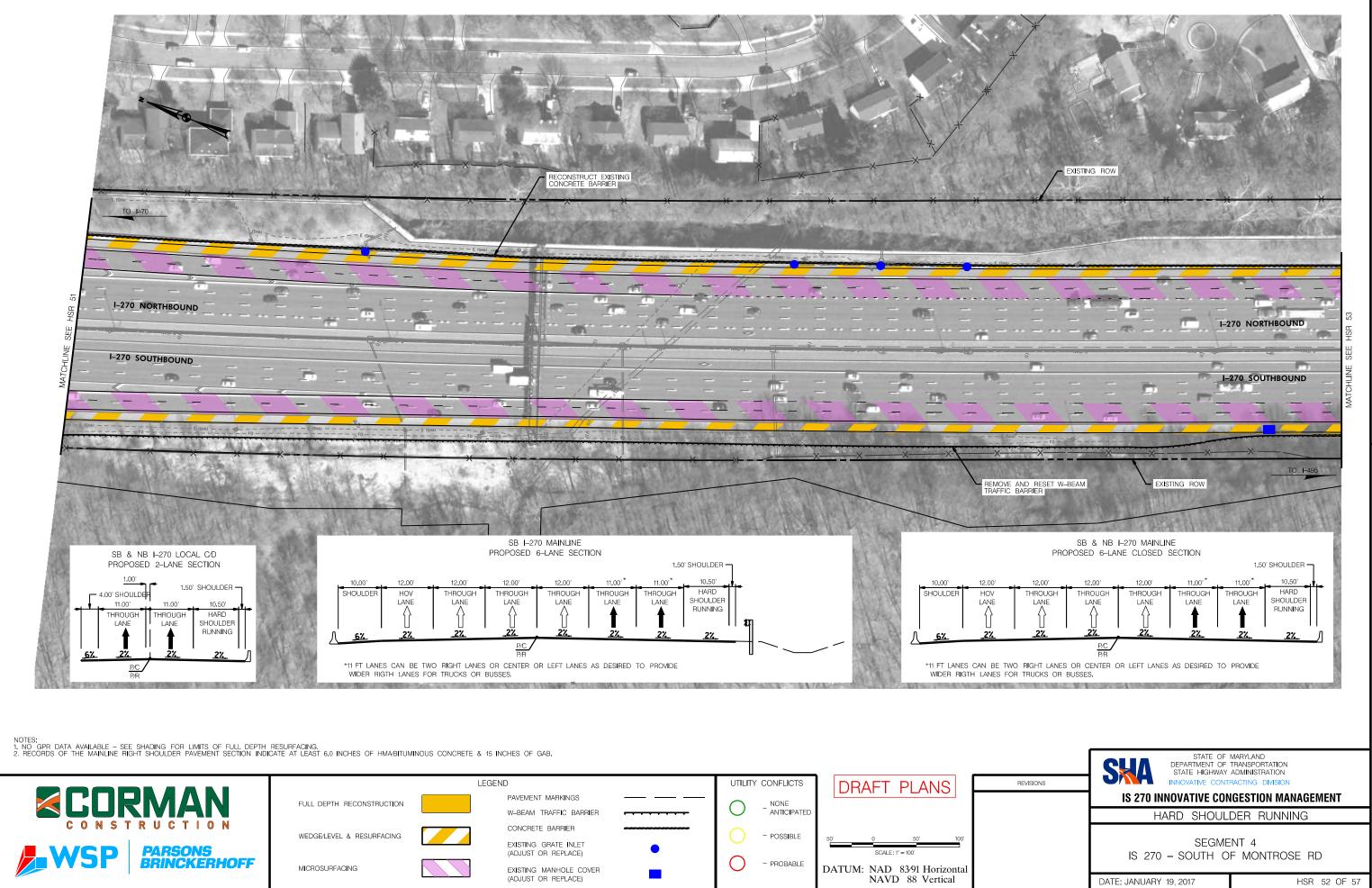




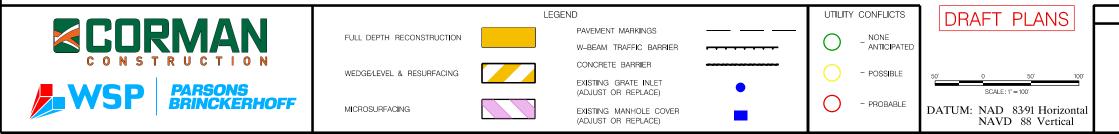
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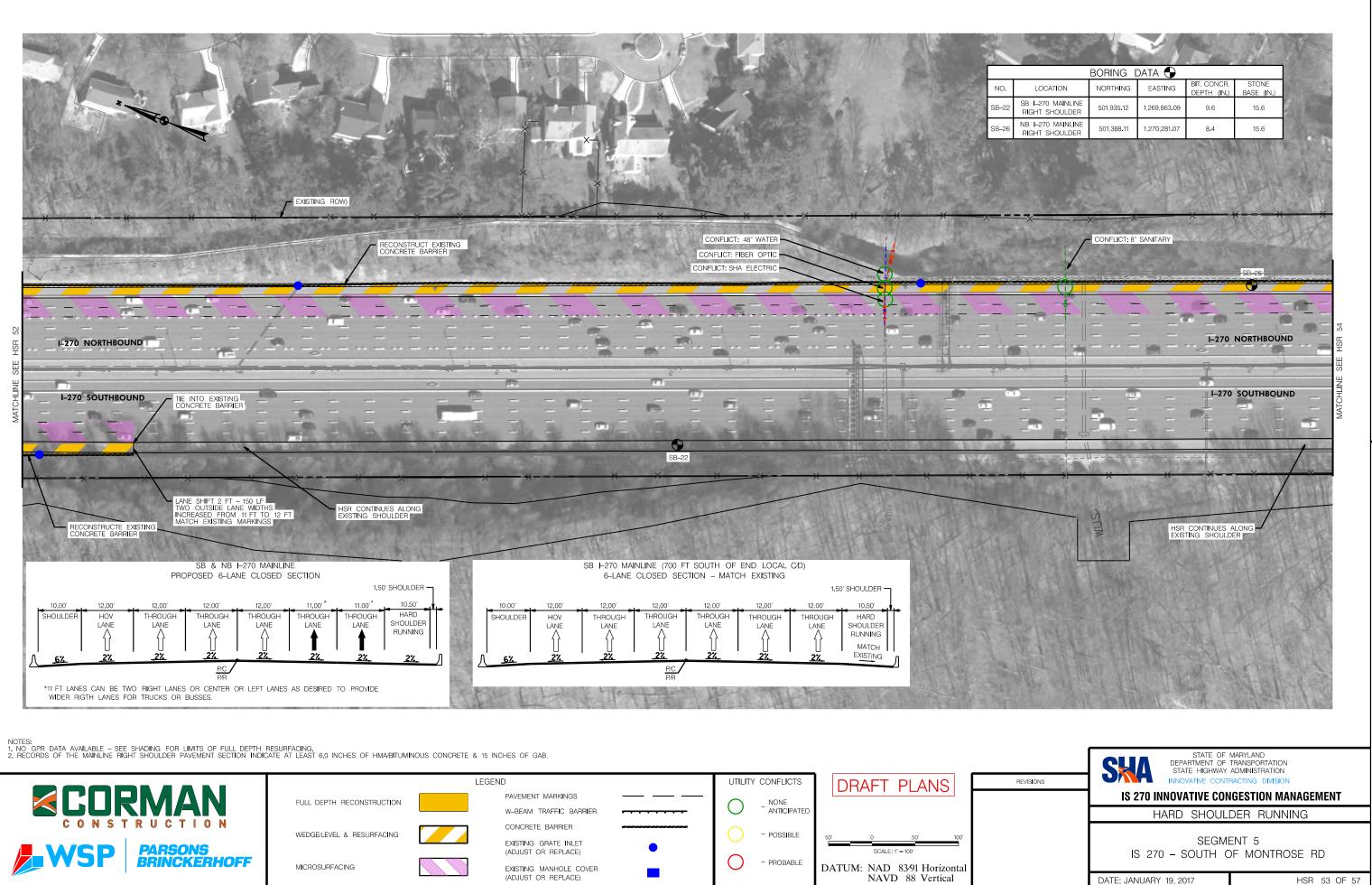
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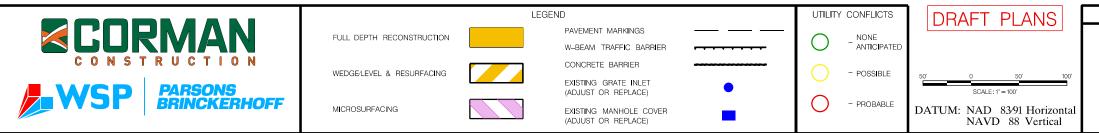
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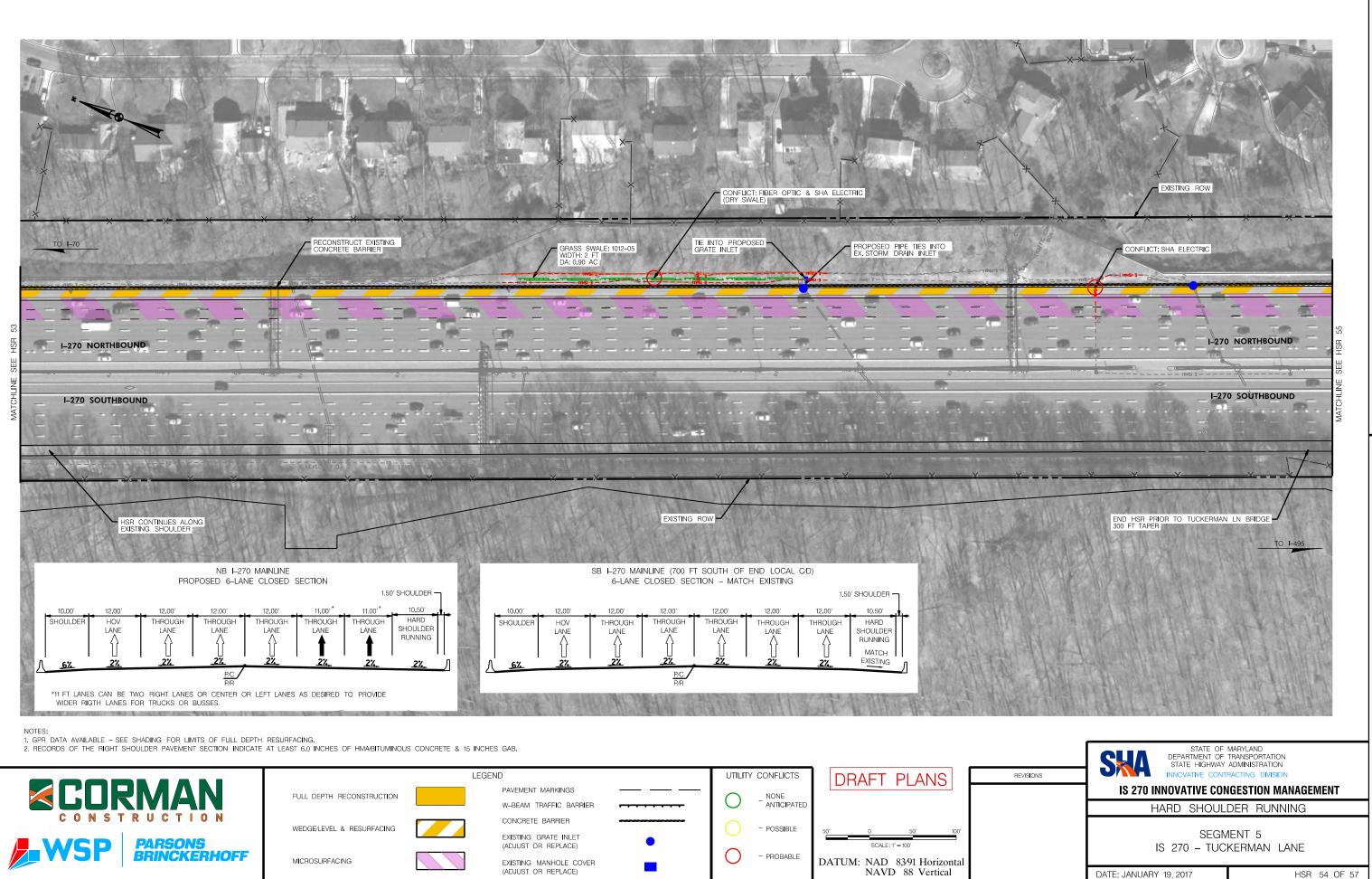
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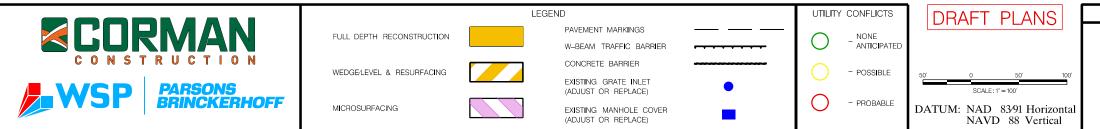




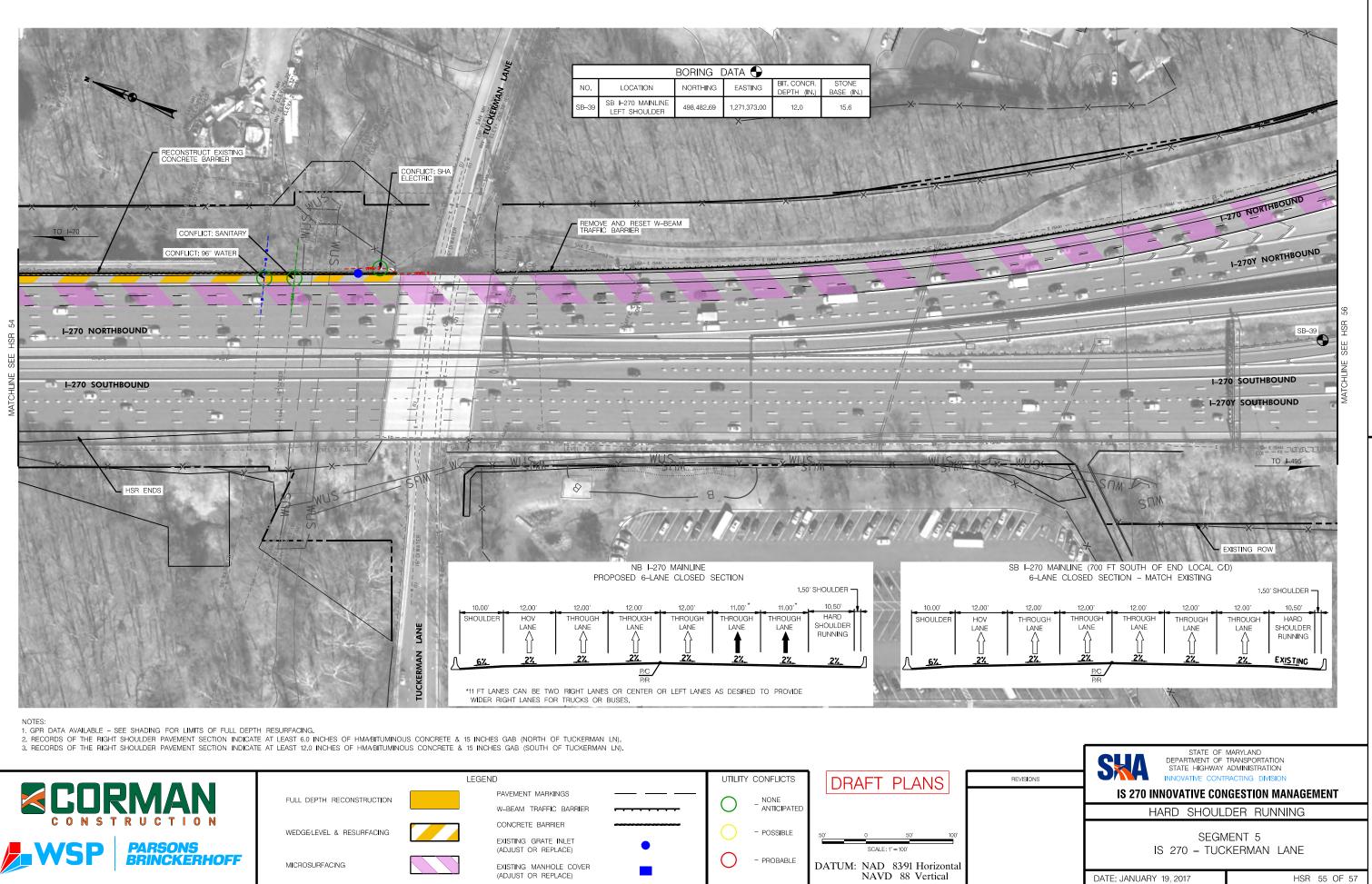
HSR 53 OF 57

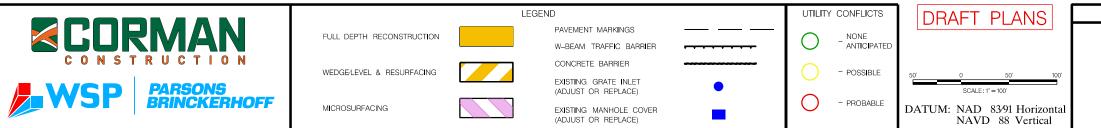
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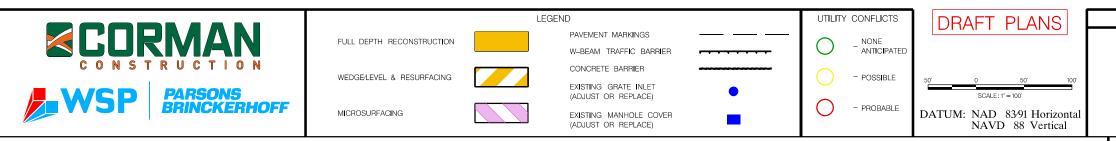
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NOTES:

1. GPR DATA AVAILABLE - SEE SHADING FOR LIMITS OF FULL DEPTH RESURFACING.

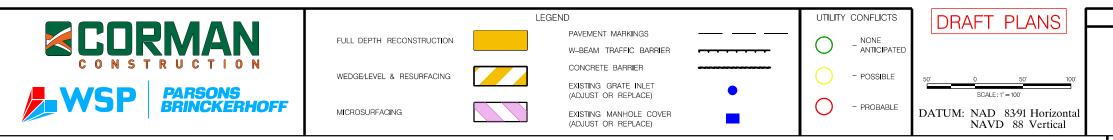
2. RECORDS OF THE RIGHT SHOULDER PAVEMENT SECTION INDICATE AT LEAST 12.0 INCHES OF HMA/BITUMINOUS CONCRETE & 15 INCHES GAB (IS 270).



|   | 1/6  |                          | and the second               | 102232                     | -/                  | 10.100   |
|---|--|--------------------------|------------------------------|----------------------------|---------------------|--|
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| AND |  |                          |                              |                            | C. A.               |  |
| 11-1                                    |  | 1                        | - <u>x</u> -                 |                            | 2 March             |  |
|   |  | In The                   | 1 - y                        |                            | X                   |  |
| And and                                 |  |                          |                              | Contral V                  |                     |  |
|   | E (SHL@  | E (SHA)                  |                              | Ε (S)                      |                     | 2.1  |
| 700                                     |  |                          | - 49                         | 4                          |                     | (VHS) 3 - 1  |
|   |  | 140                      |                              | 1-270Y NO                  | RTHBOUNT            |  |
|   |  |                          |                              | and the second second      |                     |  |
|   | 3  |                          | 1-270Y SOU                   | THBOUND HO                 |                     | 1000 market  |
|   |  |                          |                              | .5 H                       | OV LANE             |  |
|   |  | Later 1                  |                              |                            |                     |  |
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| 1334                                    | 12.2   |                          |                              | 2 . Jo                     |                     |  |
|   | 12   | a filipa                 |                              |                            | a State             | and the second s |
| - 11                                    |  |                          |                              |                            |                     | 29.02  |
| -6-                                     |  |                          | En Ster                      | - 1.070                    |                     |  |
|   | E (SMA)  |                          | (\$HA)                       | 1-270Y                     | SOUTHBO             | UND  |
|   |  | 11                       |                              |                            | NA-N                |  |
|   | <u>- x</u>   | Sedi:                    | et sale                      |                            | TO 1-495            | -  |
| and the                                 | CARLER VILLE   | BORING                   |                              |                            | 8                   |  |
| NO.<br>SB-16                            | LOCATION   | NORTHING                 | EASTING                      | BIT. CONCR.<br>DEPTH (IN.) | STONE<br>BASE (IN.) |  |
| SB-16<br>SB-20                          | RIGHT SHOULDER<br>SB I–270 MAINLINE<br>LEFT SHOULDER | 498,217.14<br>497,978.18 | 1,271,685.08<br>1,271,656.16 | 10.8<br>12.0               | 15.6                | C. S.C.  |
| 120                                     | LEFT SHOULDER  | All Carl                 | 15.64                        | 1.00                       |                     | THE ST   |
|   |  |                          |                              |                            |                     |  |
|   |  |                          | STATE<br>DEPARTMEN           | OF MARYLANE                |                     |  |
| REVISION                                | s  |                          |                              | OF TRANSPOF                | DIVISION            |  |
|   |  |                          |                              | CONGESTIC                  |                     | EMENT  |
|   |  |                          |                              |                            |                     |  |
|   |  |                          |                              | GMENT 5<br>IS 270 S        | PURS                |  |
|   | DA   | TE: JANUARY              | 19, 2017                     |                            | HS                  | R 56 OF 57   |



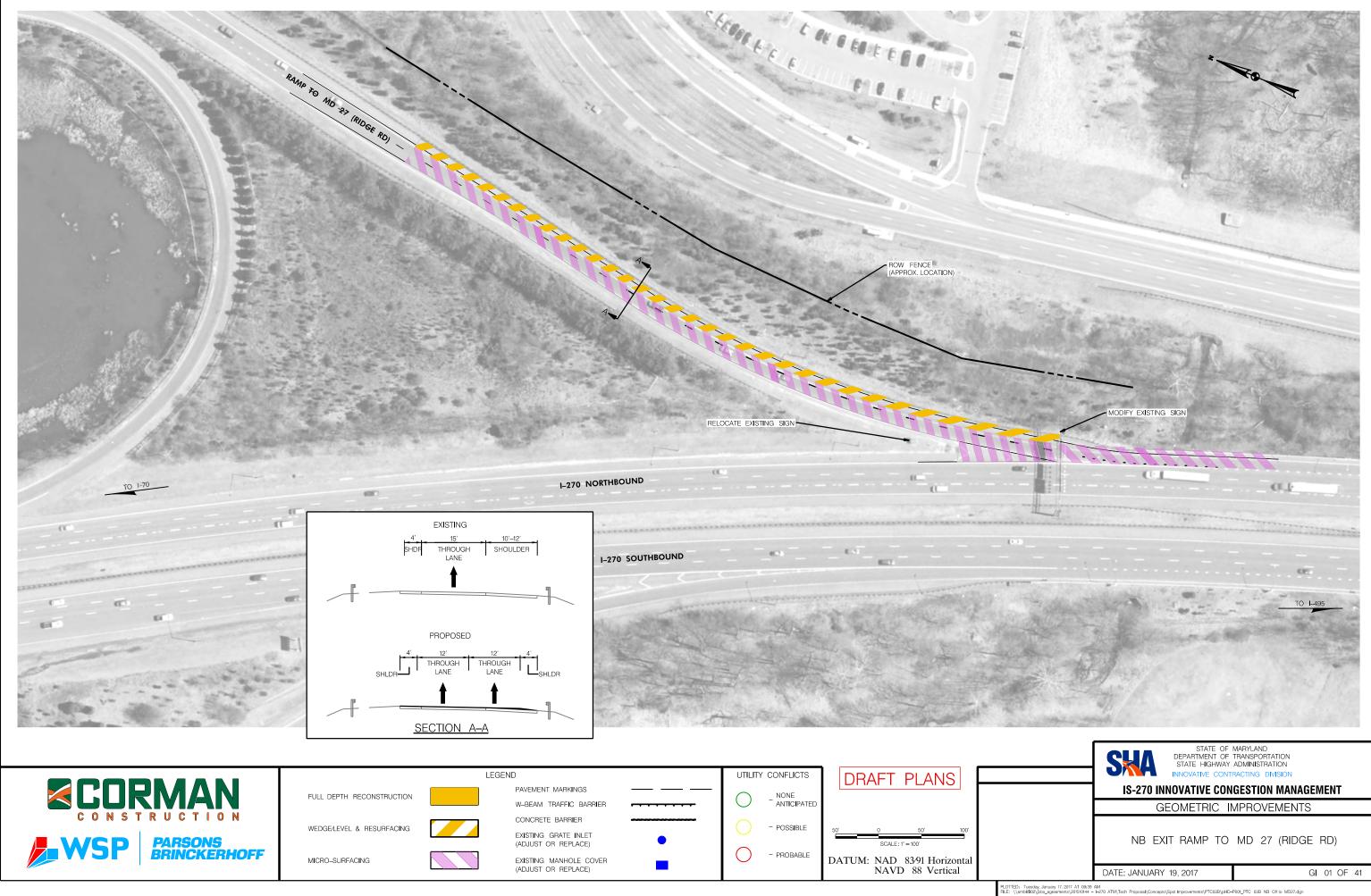
NOTES: 1. NO GPR DATA AVAILABE (LIMITS BEGIN AT MIDDLEBROOK RD) 2. RECORDS OF THE RIGHT SHOULDER PAVEMENT SECTION INDICATE AT LEAST 12.0 INCHES OF HMA/BITUMINOUS CONCRETE & 15 INCHES OF GAB.

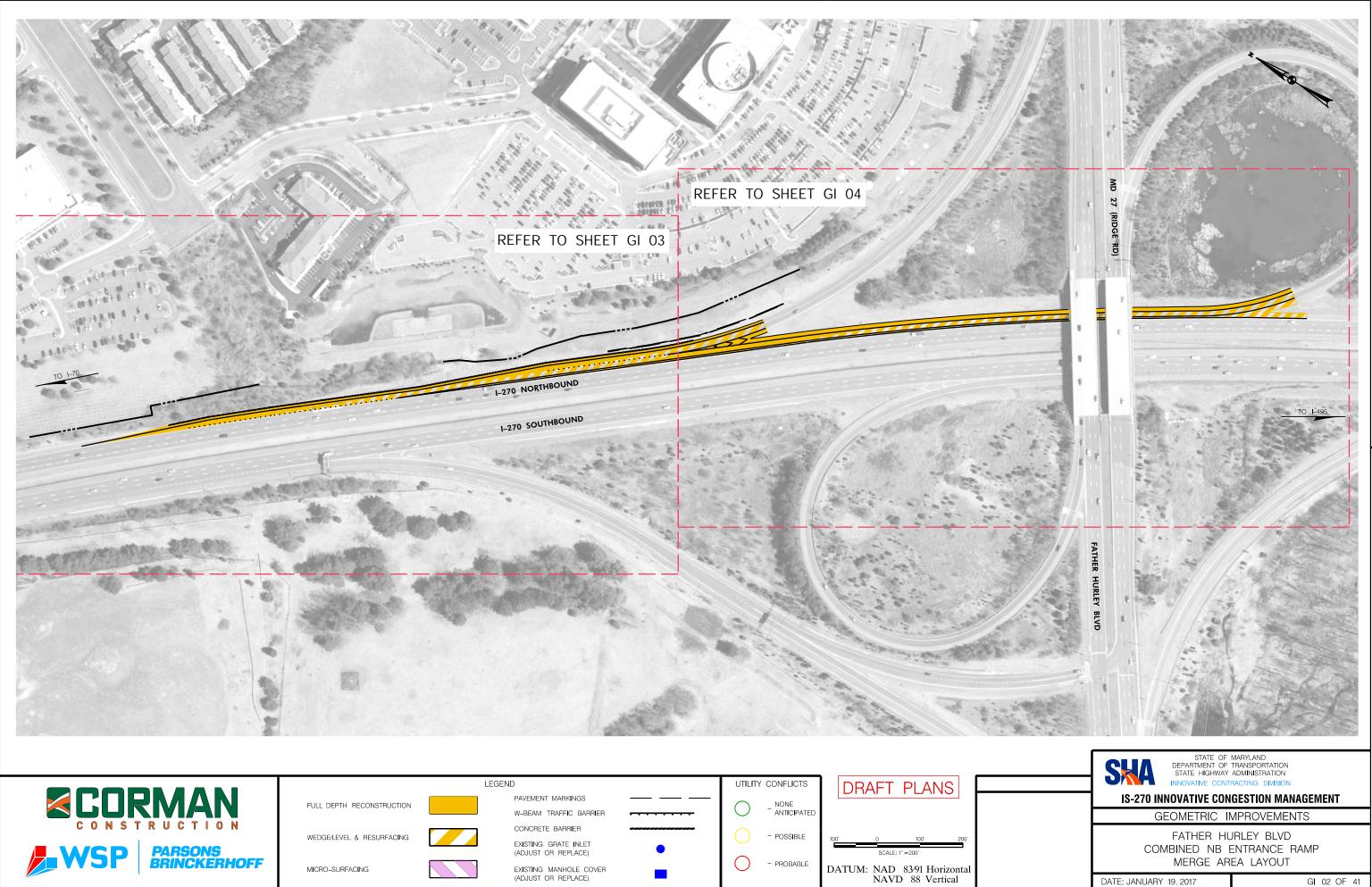


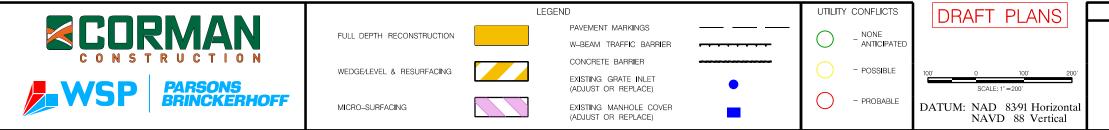
|                        |                   |            |   | 24        |
|------------------------|-------------------|------------|---|-----------|
| BIT CONCR STONE        | DATA 🕁<br>Easting | BORING [   | LOCATION  | NO.       |
| DEPTH (IN.) BASE (IN.) | 1,272,593.28      | 497,705.81 | NB I-270 MAINLINE                                     | SB-19     |
|                        | 1,272,962.12      | 497,392.87 | RIGHT SHOULDER<br>SB I-270 MAINLINE<br>RIGHT SHOULDER | SB21      |
|                        |                   |            | *   | STING     |
| L-270 NORTHBOUND       |                   |            | n   |           |
| I-270 SOUTHBOUND       | Wetter .          |            | •<br>   |           |
| TO 1-495               |                   |            |   |           |
| FETTO SOUTHBOUND       |                   | 0          | *   | 10- E 150 |

| REVISIONS | STATE OF<br>DEPARTMENT OF<br>STATE HIGHWAY<br>INNOVATIVE CONTI | TRANSPORTATION<br>ADMINISTRATION |  |  |  |  |  |
|-----------|--|----------------------------------|--|--|--|--|--|
|           | IS 270 INNOVATIVE CONGESTION MANAGEMENT                        |                                  |  |  |  |  |  |
|           | HARD SHOULDER RUNNING  |                                  |  |  |  |  |  |
|           | SEGMENT 5<br>IS 270 – IS 270 SPURS                             |                                  |  |  |  |  |  |
|           | DATE: JANUARY 19, 2017 HSR 57 OF 57                            |                                  |  |  |  |  |  |

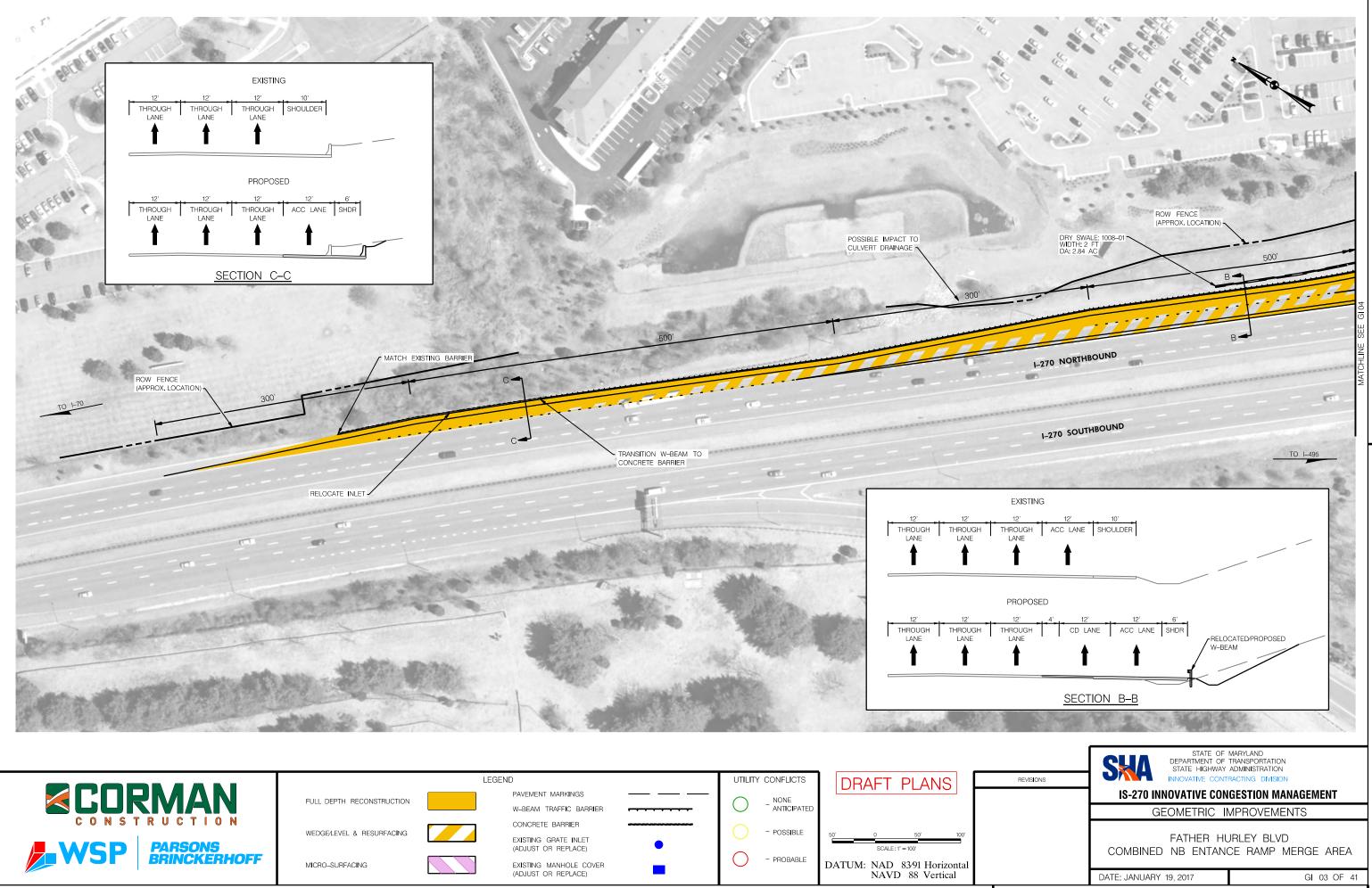
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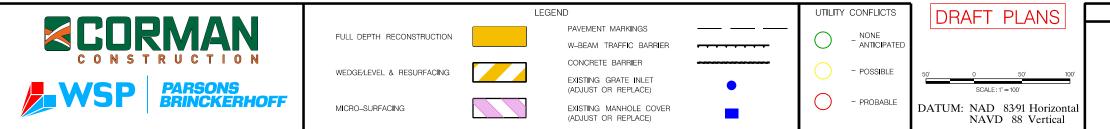




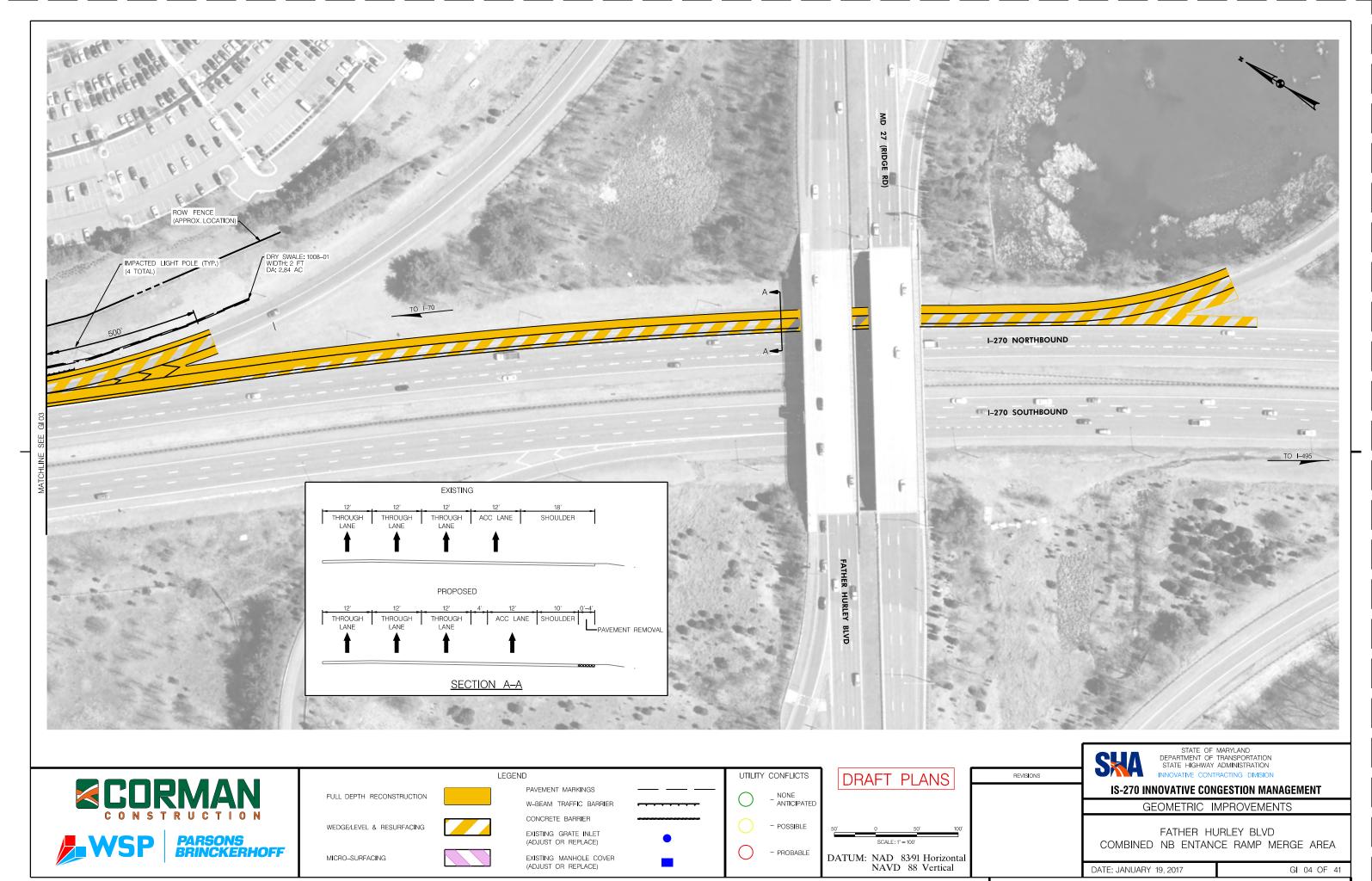


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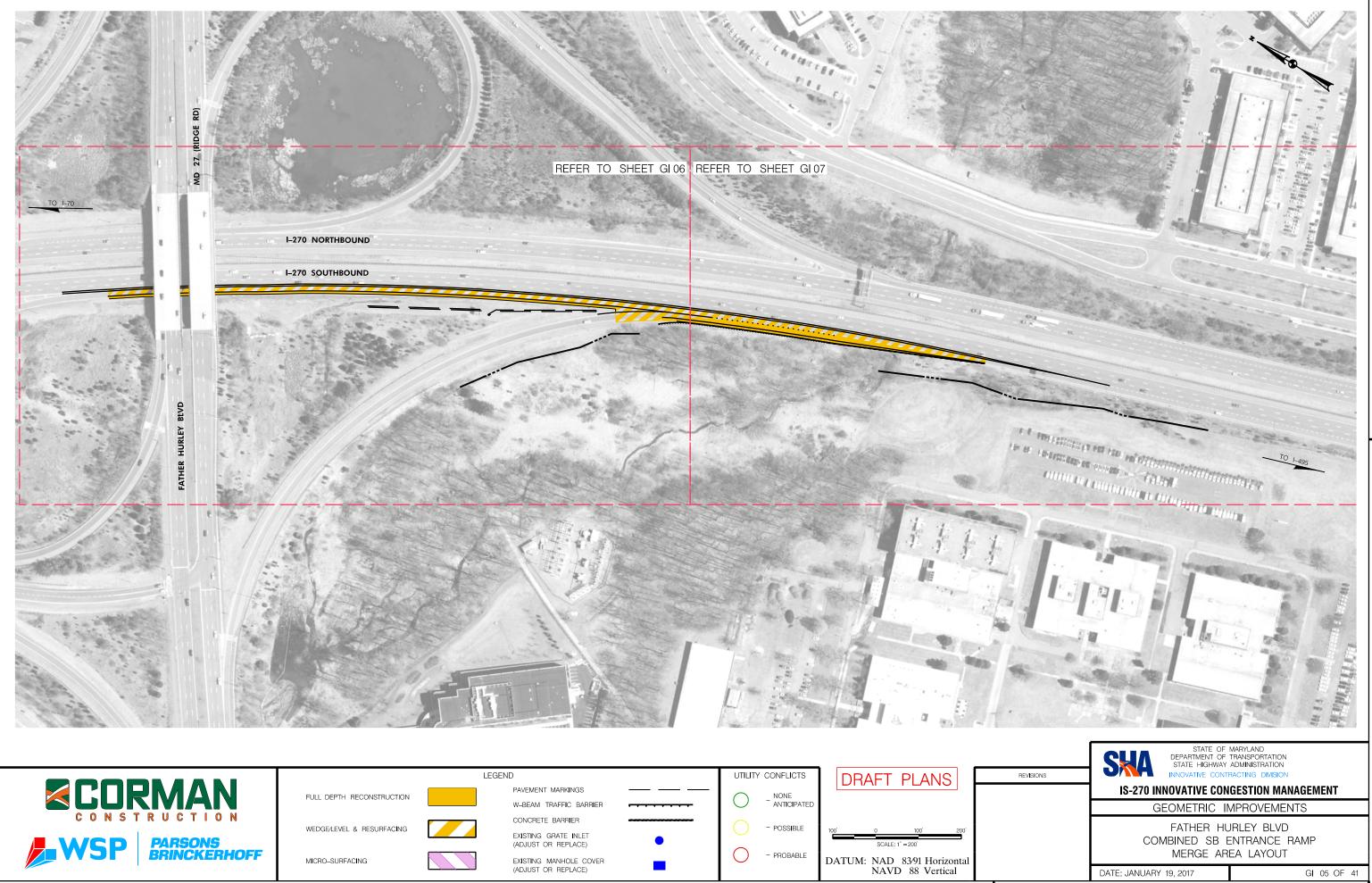




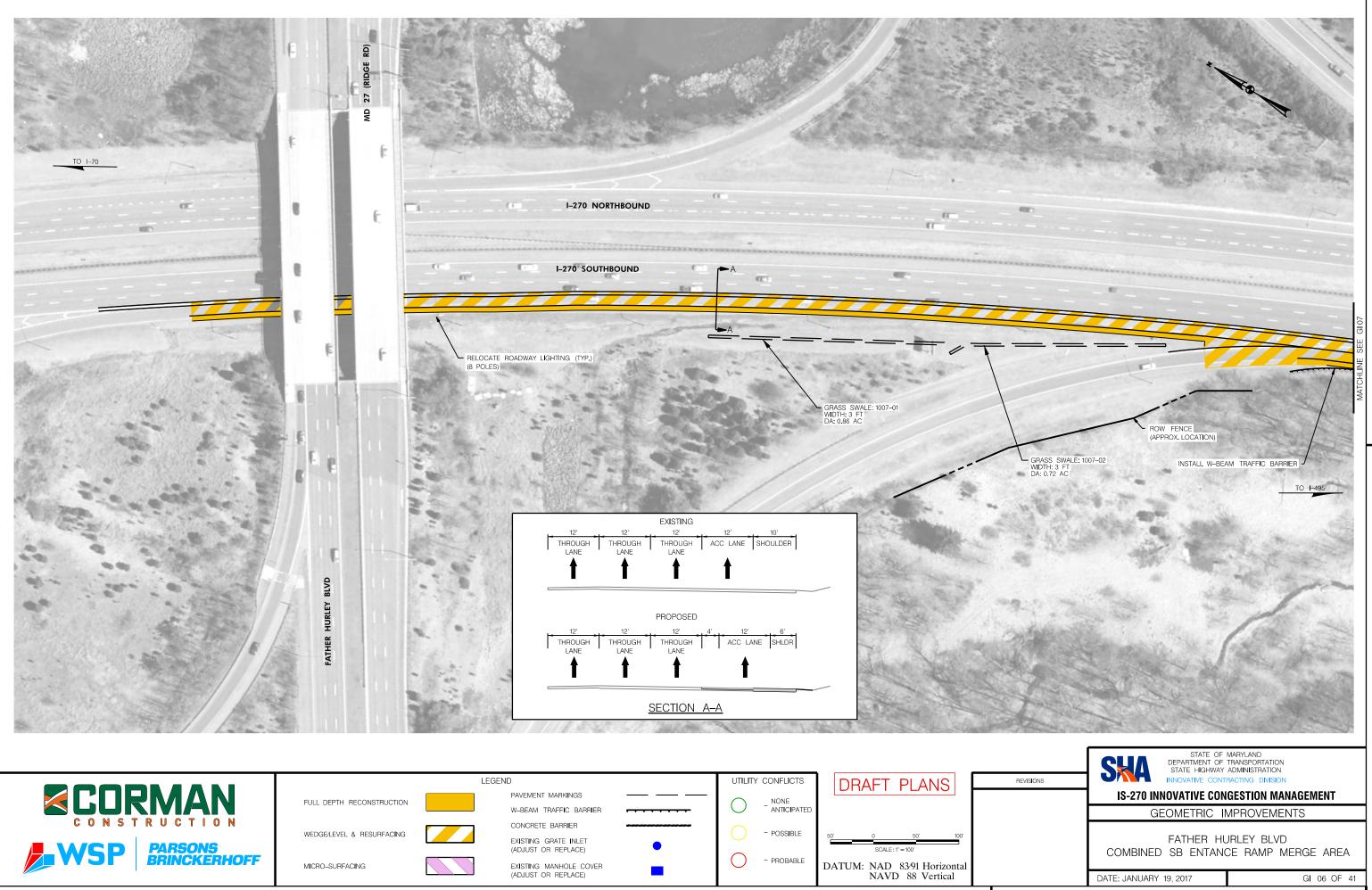
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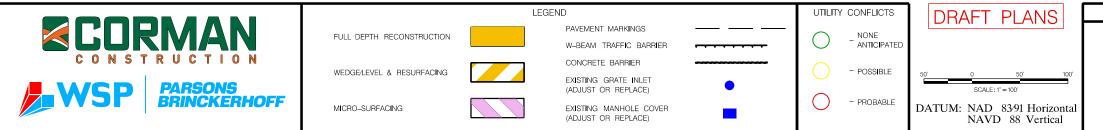


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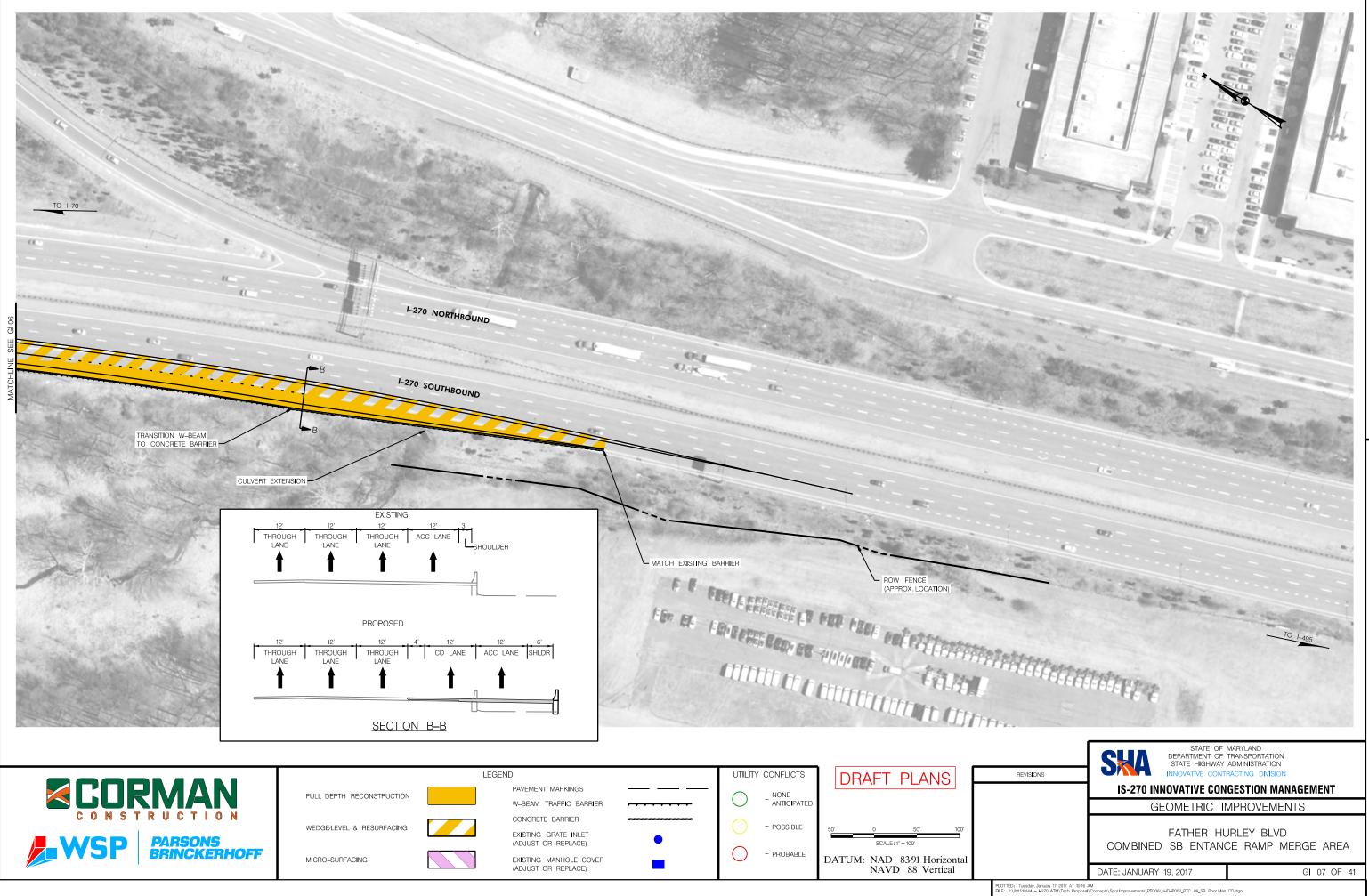


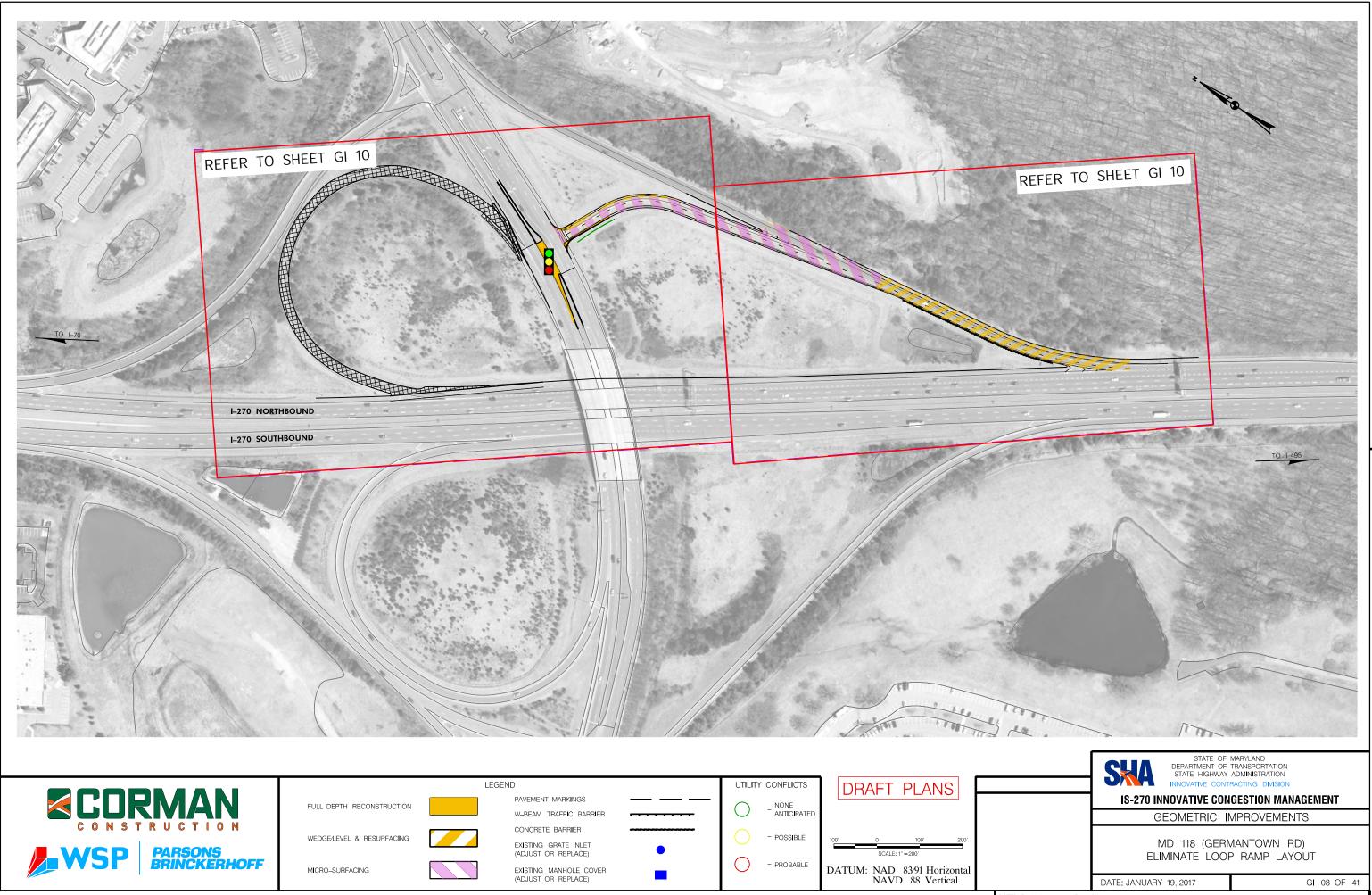
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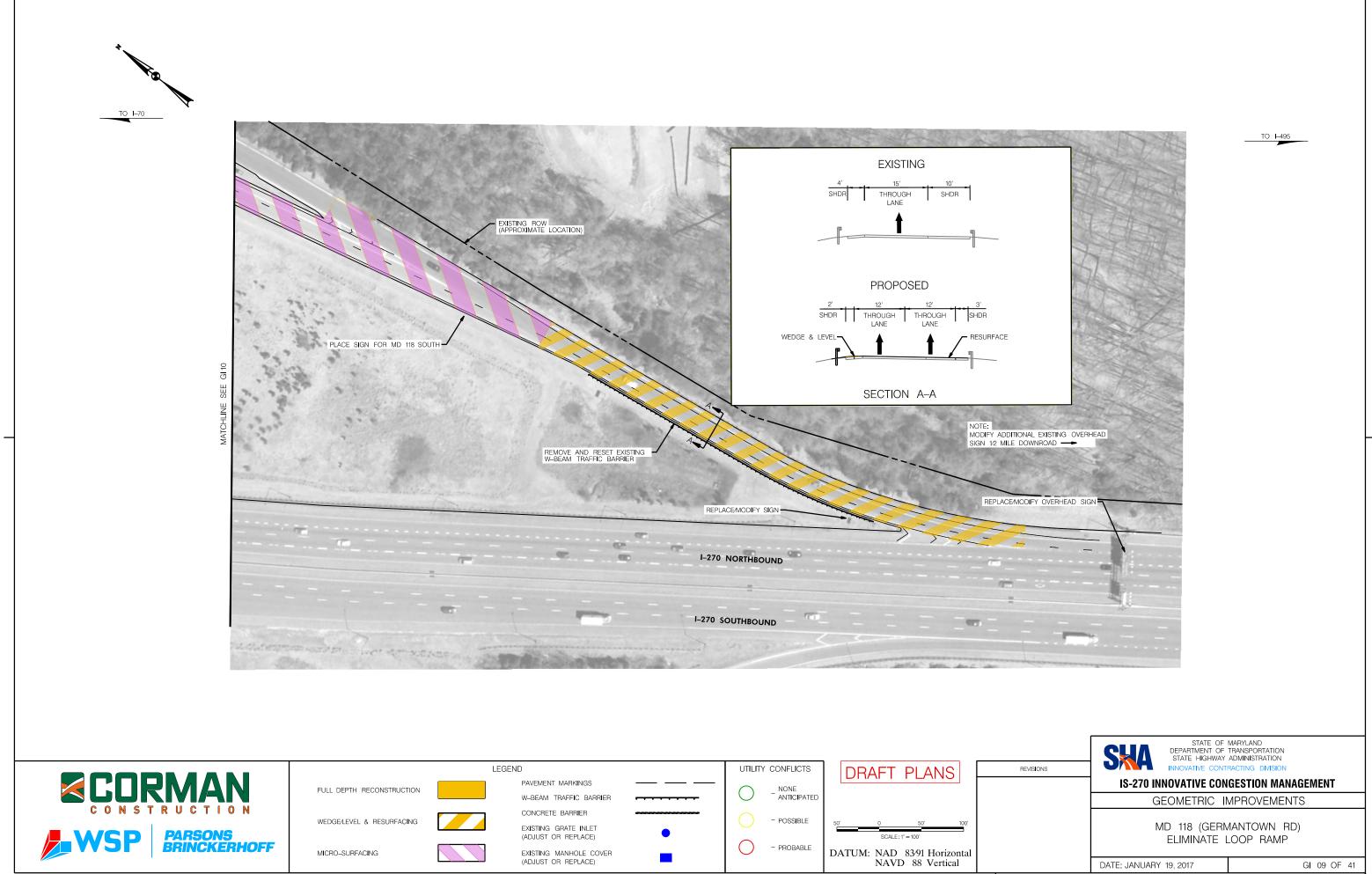




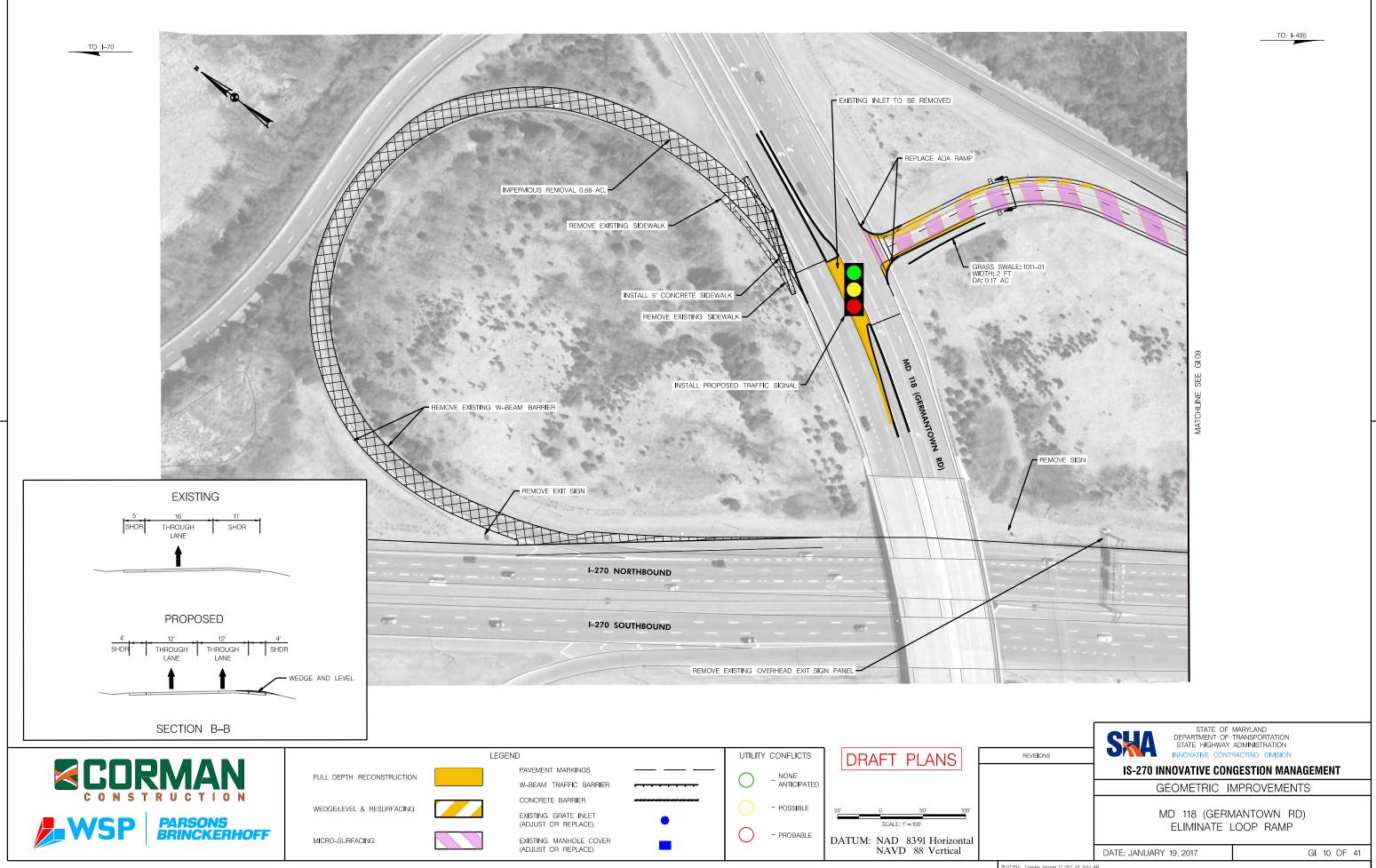
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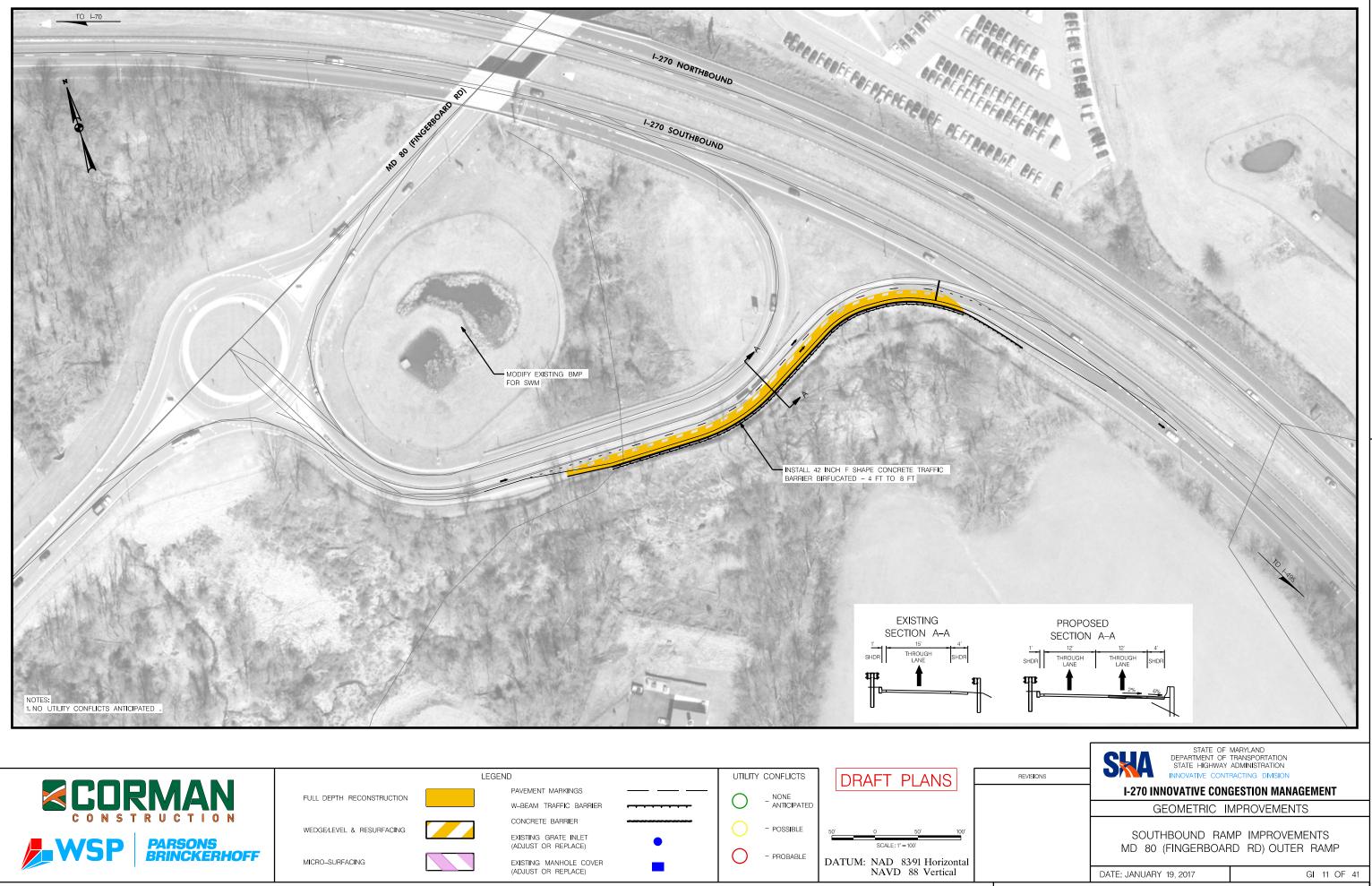


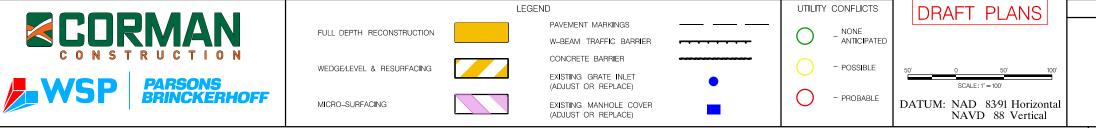


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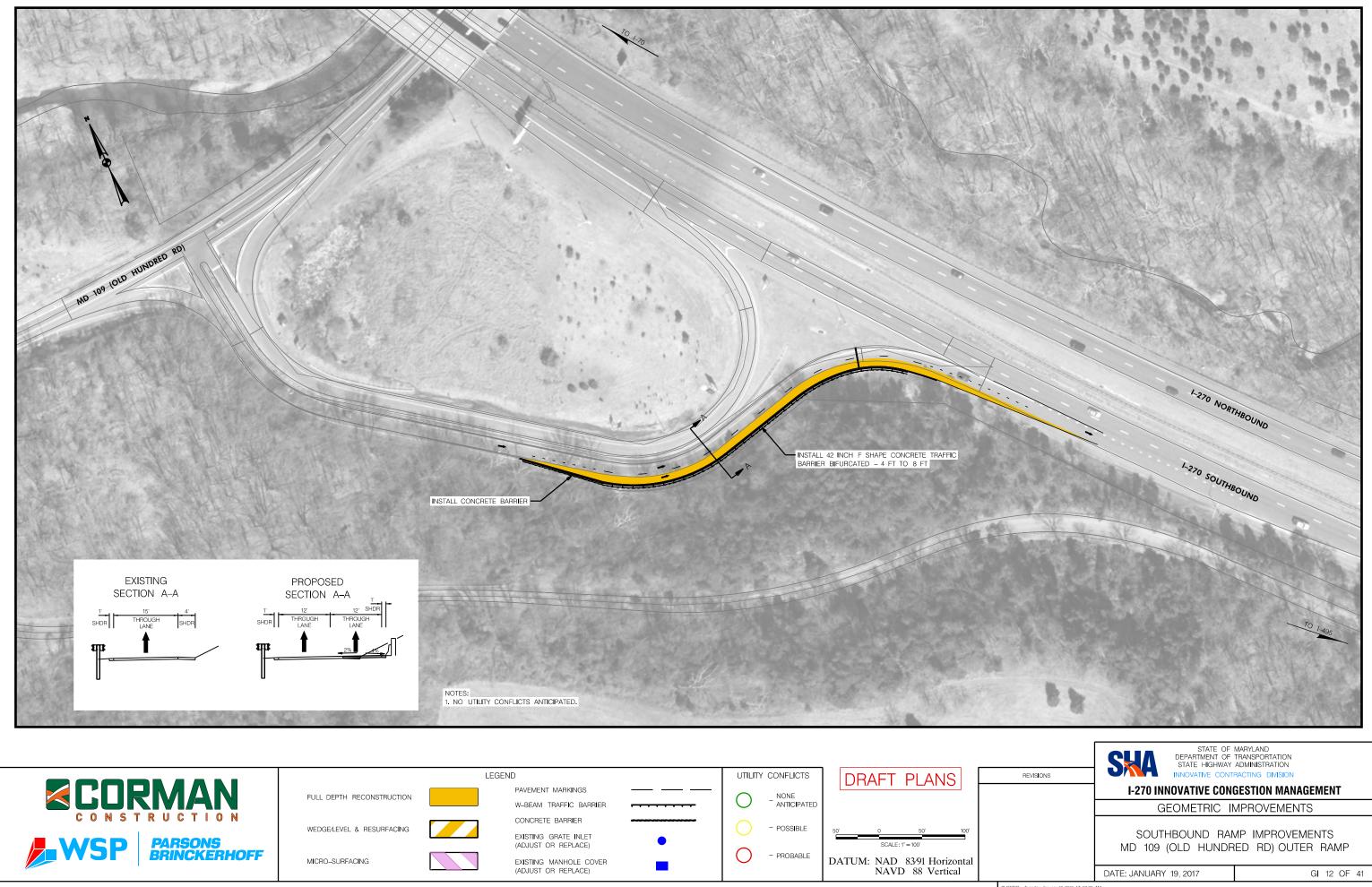


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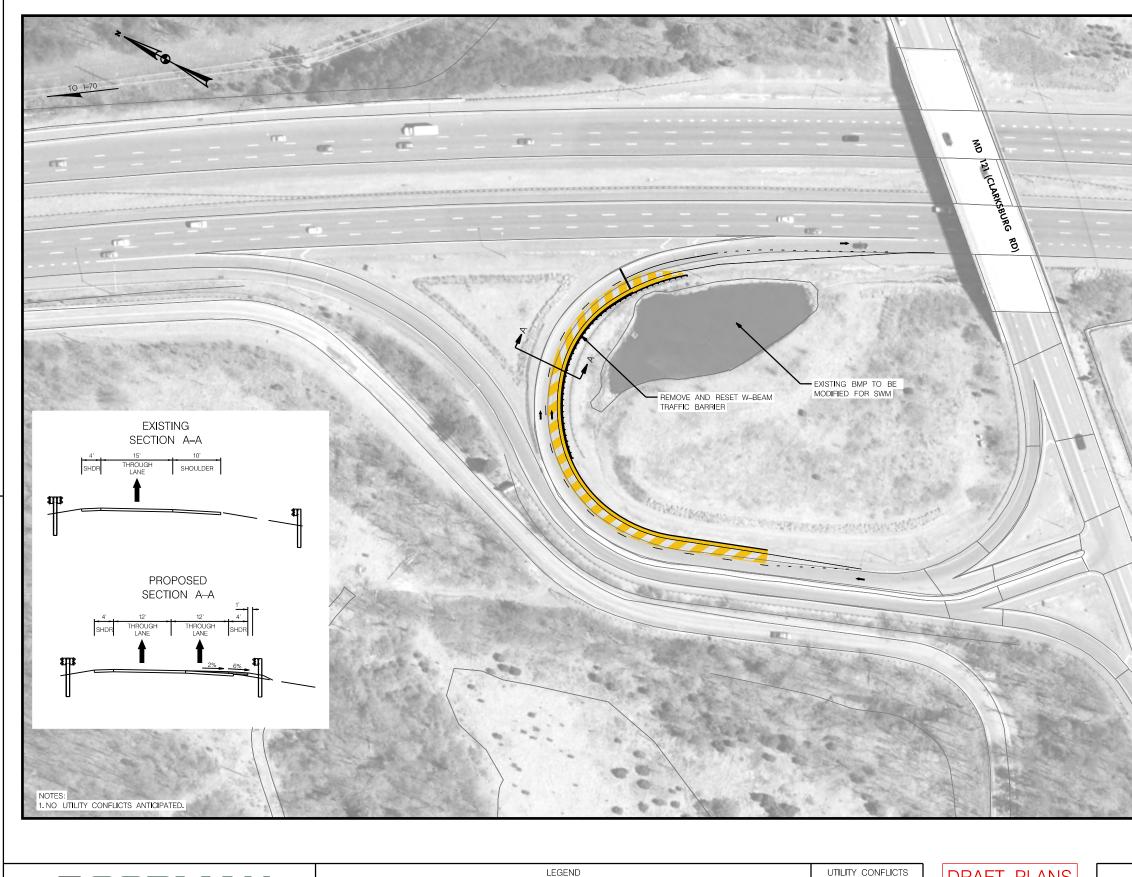


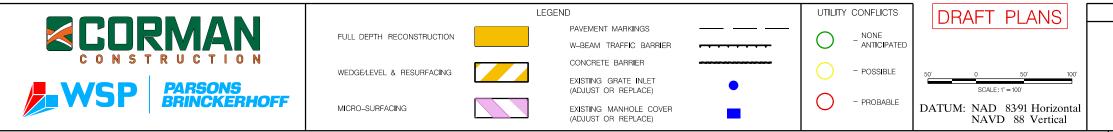
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| S  | OUT | HBOU | ND | RAMP  | IMPF | ROVEMEN | <b>NTS</b> |
|----|-----|------|----|-------|------|---------|------------|
| MD | 109 | (OLD | ΗU | NDRED | RD)  | OUTER   | RAMP       |

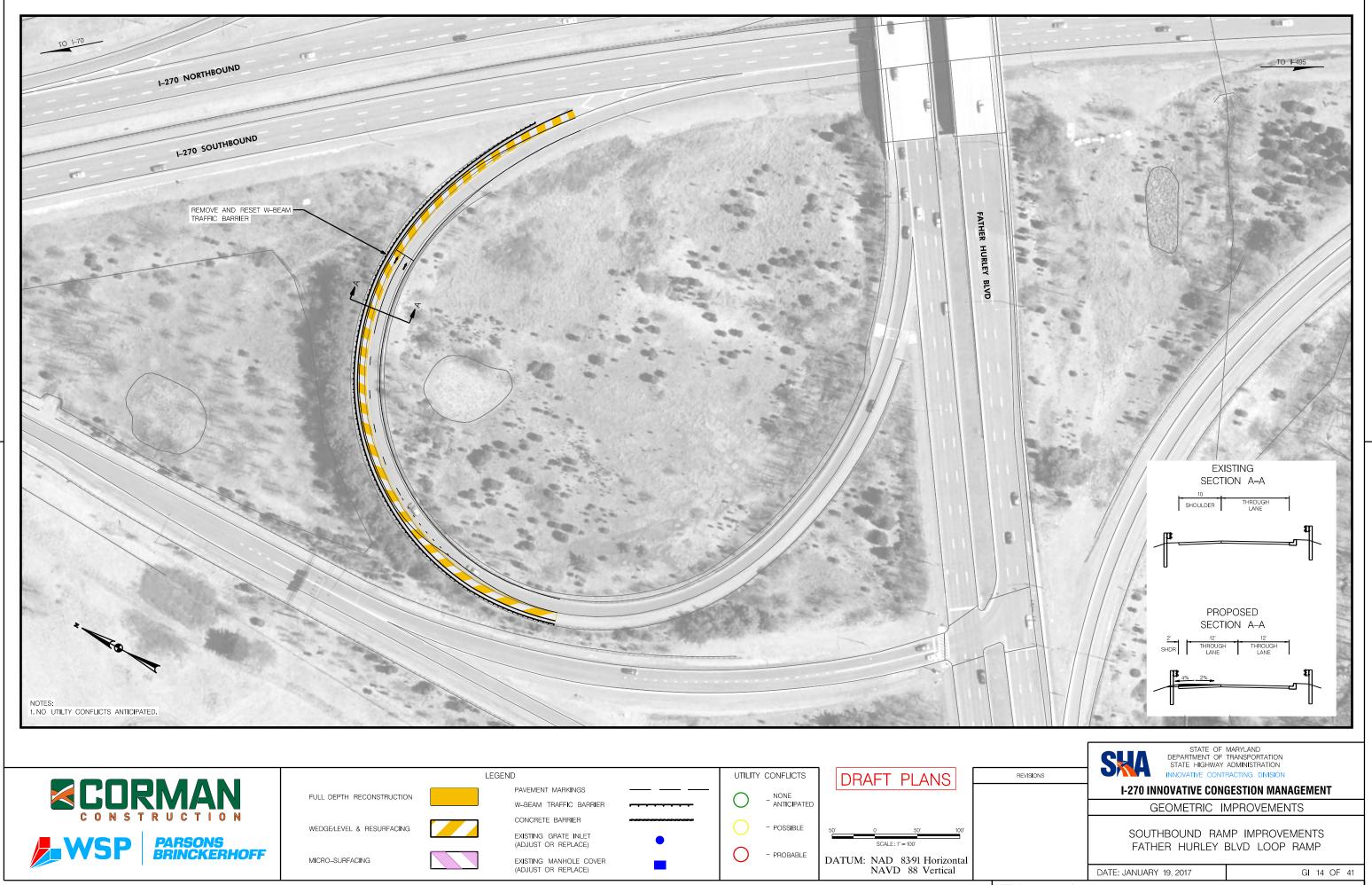
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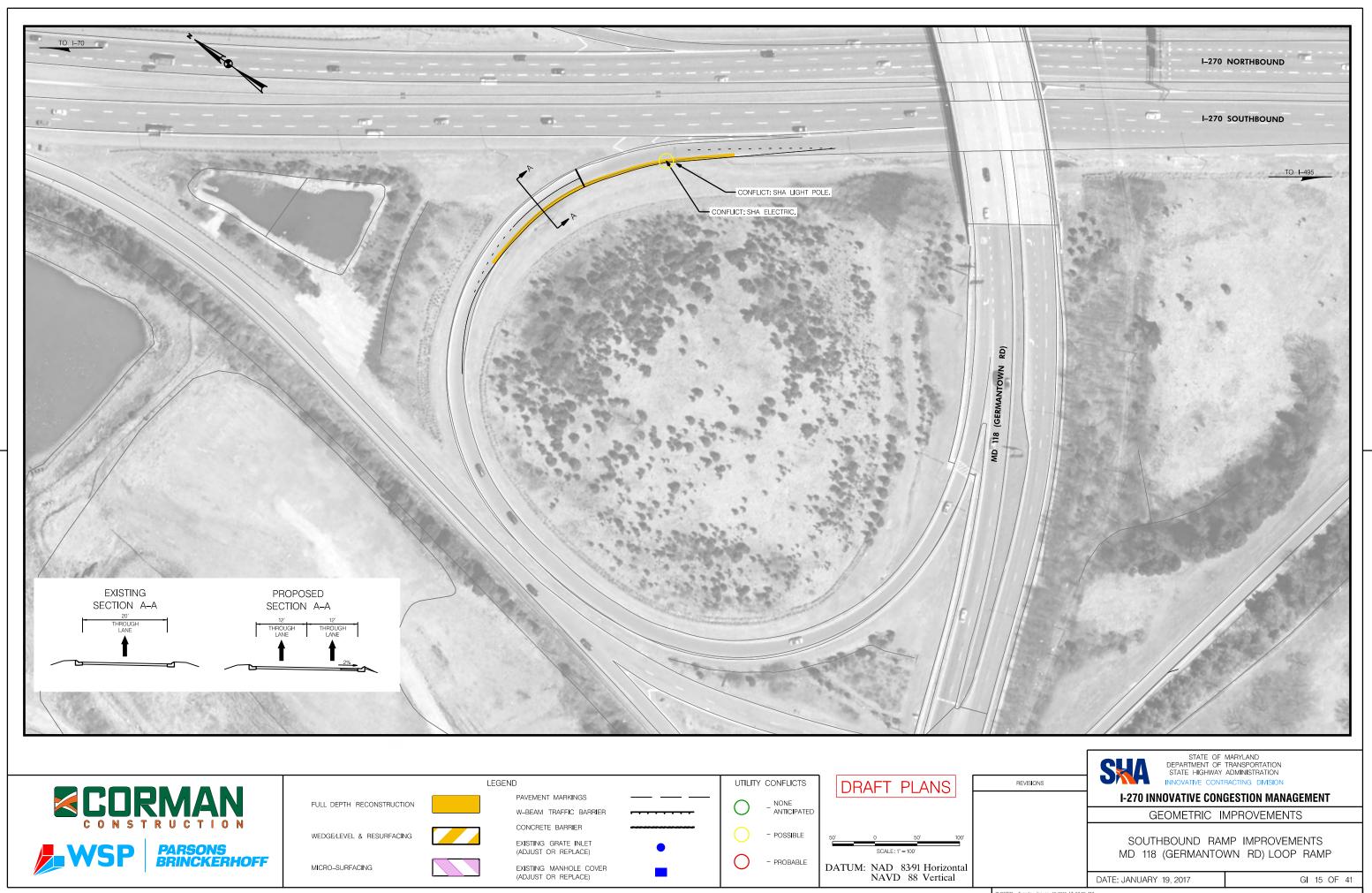


| Alter and the second second |  |
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|                             |  |
|                             | I-270 NORTHBOUND   |
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|                             | I-270 SOUTHBOUND   |
| 1000                        | A PART & MARKEN  |
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| -                           |  |
|                             |  |
|                             | STATE OF MARYLAND  |
| REVISIONS                   | STATE OF MARYLAND<br>DEPARTMENT OF TRANSPORTATION<br>STATE HIGHWAY ADMINISTRATION<br>INNOVATIVE CONTRACTING DIVISION<br>I-270 INNOVATIVE CONGESTION MANAGEMENT |
|                             | GEOMETRIC IMPROVEMENTS   |
|                             | SOUTHBOUND RAMP IMPROVEMENTS<br>MD 121 (CLARKSBURG RD) LOOP RAMP   |
|                             | DATE: JANUARY 19, 2017 GI 13 OF 41   |

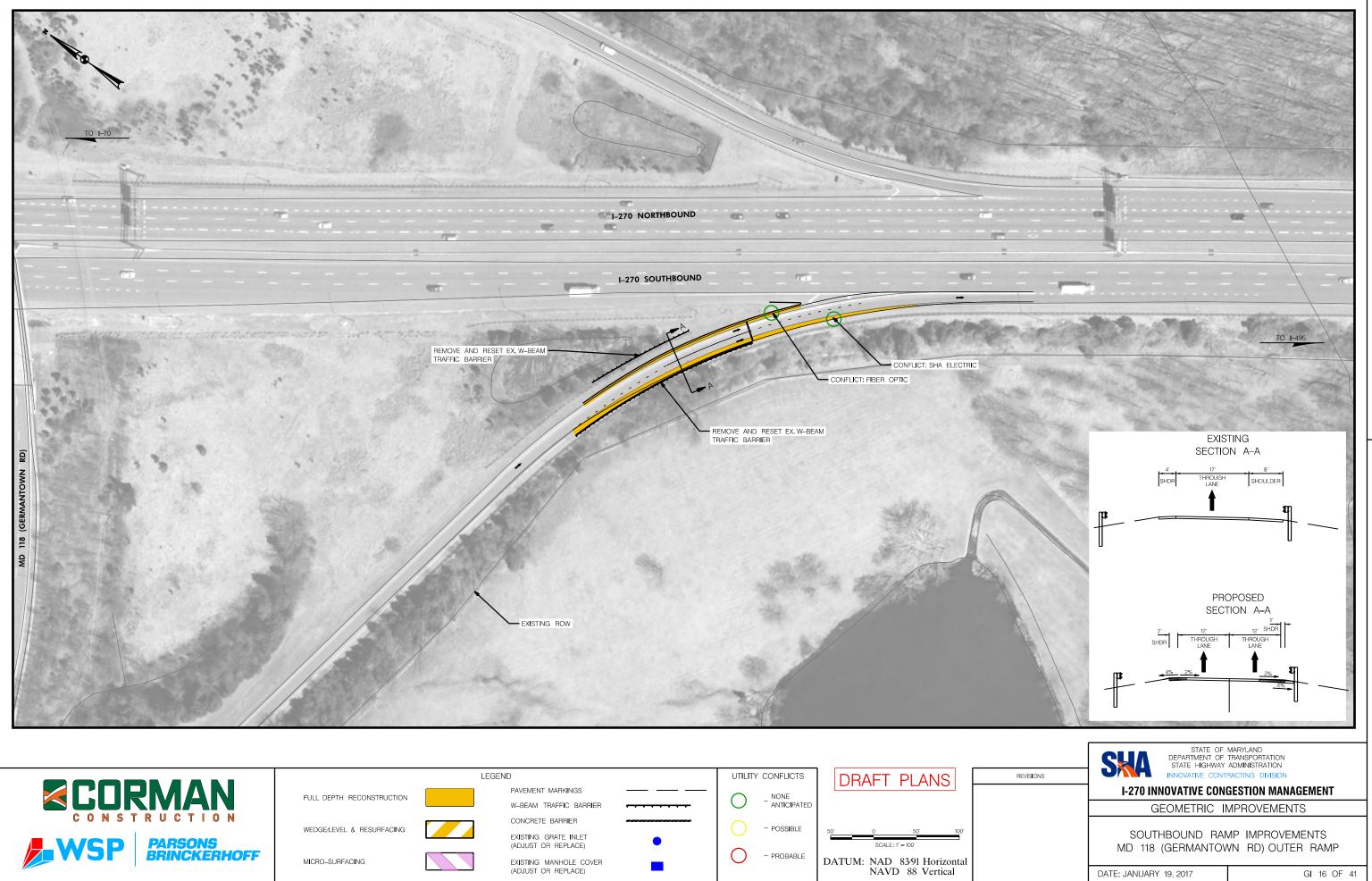
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PLOTTED: Tuesday, January 17, 2017 AT 07:31 AM FILE: \\ambititili02\jobs\_agreements\2015/0144 - I-270 ATM\Tech Proposal(Concepts\Ramp Metering\Geometric Improvements\Southbound\pHD-0004\_SB\_Father\_Hutey\_Blid.dgn

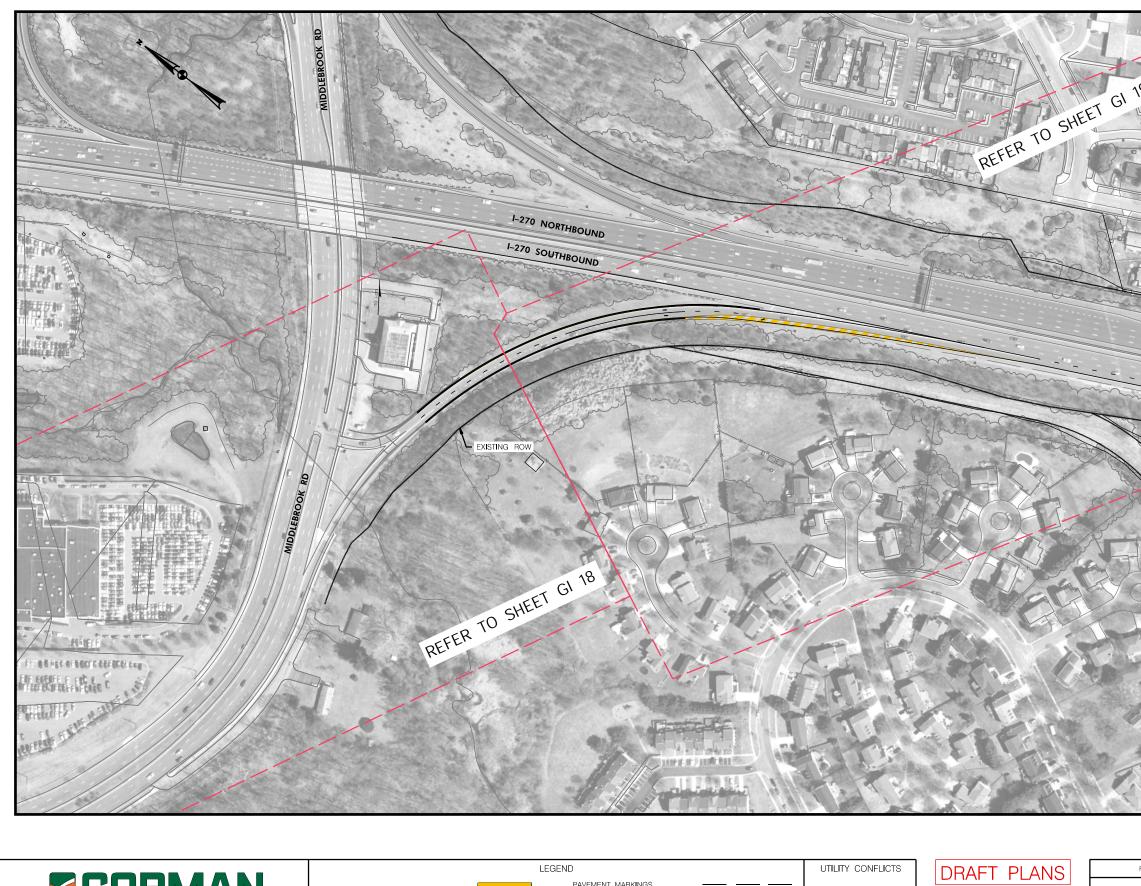


PLOTTED: Tuesday, January 17, 2017 AT 07:32 AM FILE: \\ambilitili02\\obs\_agreements\2015/0144 - I-270 ATM\Tech Proposal\Concepts\Ramp Metering\Geometric Improvements\Southbound\pHD-0005\_SB\_MD118\_Loop.dgn





PLOTTED: Tuesday, January 17, 2017 AT 07:35 AM FILE: \\ambiblik02\obs\_agreements\201510144 - I-270 ATM\Tech Proposal\Concepts\Ramp Metering\Geometric Improvements\Southbound\pHD-0006\_SB\_MD118\_Outer.dgn



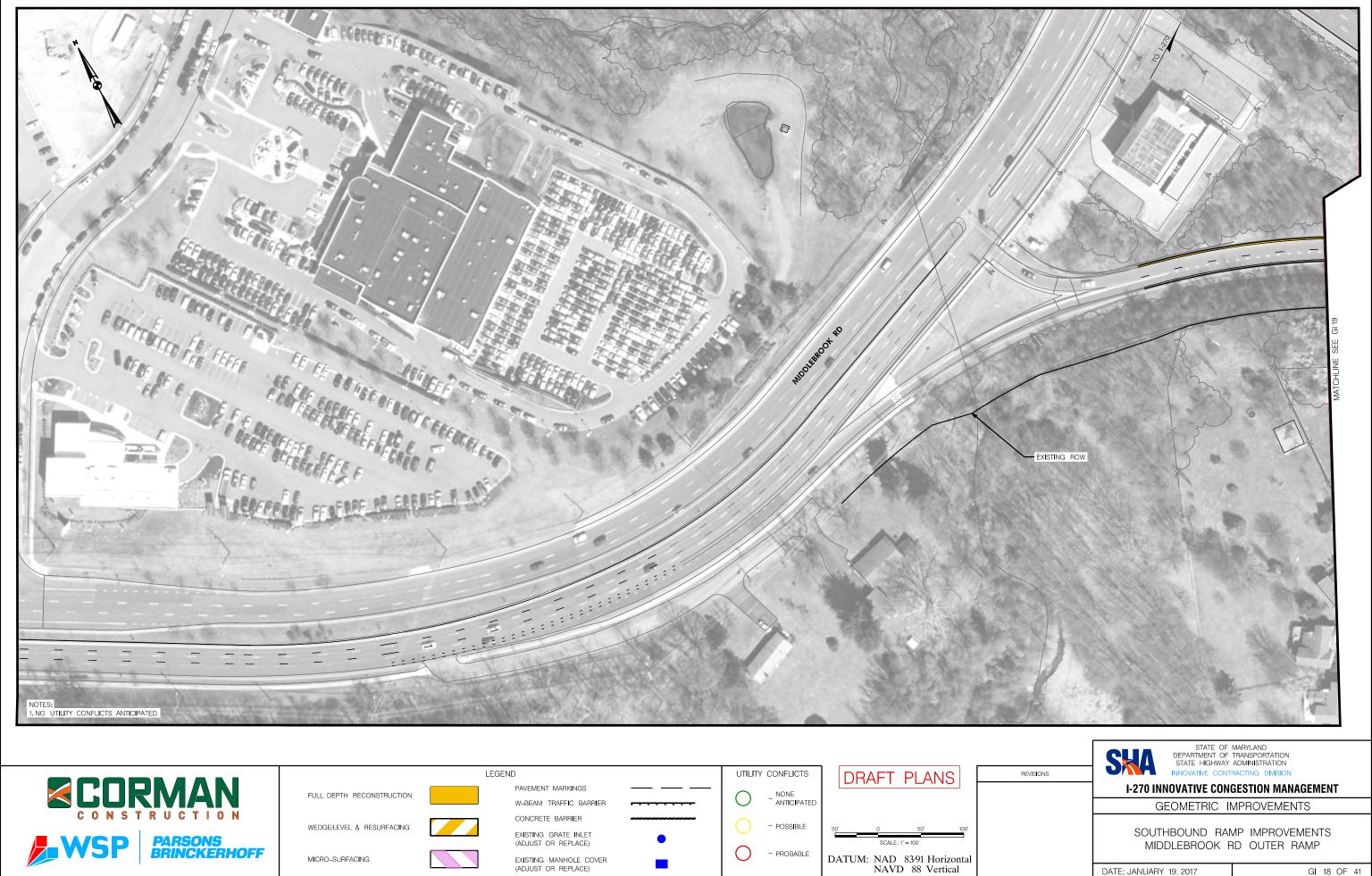


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|-----------|---|
| REVISIONS | INNOVATIVE CONTRACTING DIVISION<br>I-270 INNOVATIVE CONGESTION MANAGEMENT<br>GEOMETRIC IMPROVEMENTS |
|           | SOUTHBOUND RAMP IMPROVEMENTS  |

| SOUTHBOUN   | D R | amp imf | ROVEN | <i>i</i> ents |
|-------------|-----|---------|-------|---------------|
| MIDDLEBROOK | RD  | OUTER   | RAMP  | LAYOUT        |

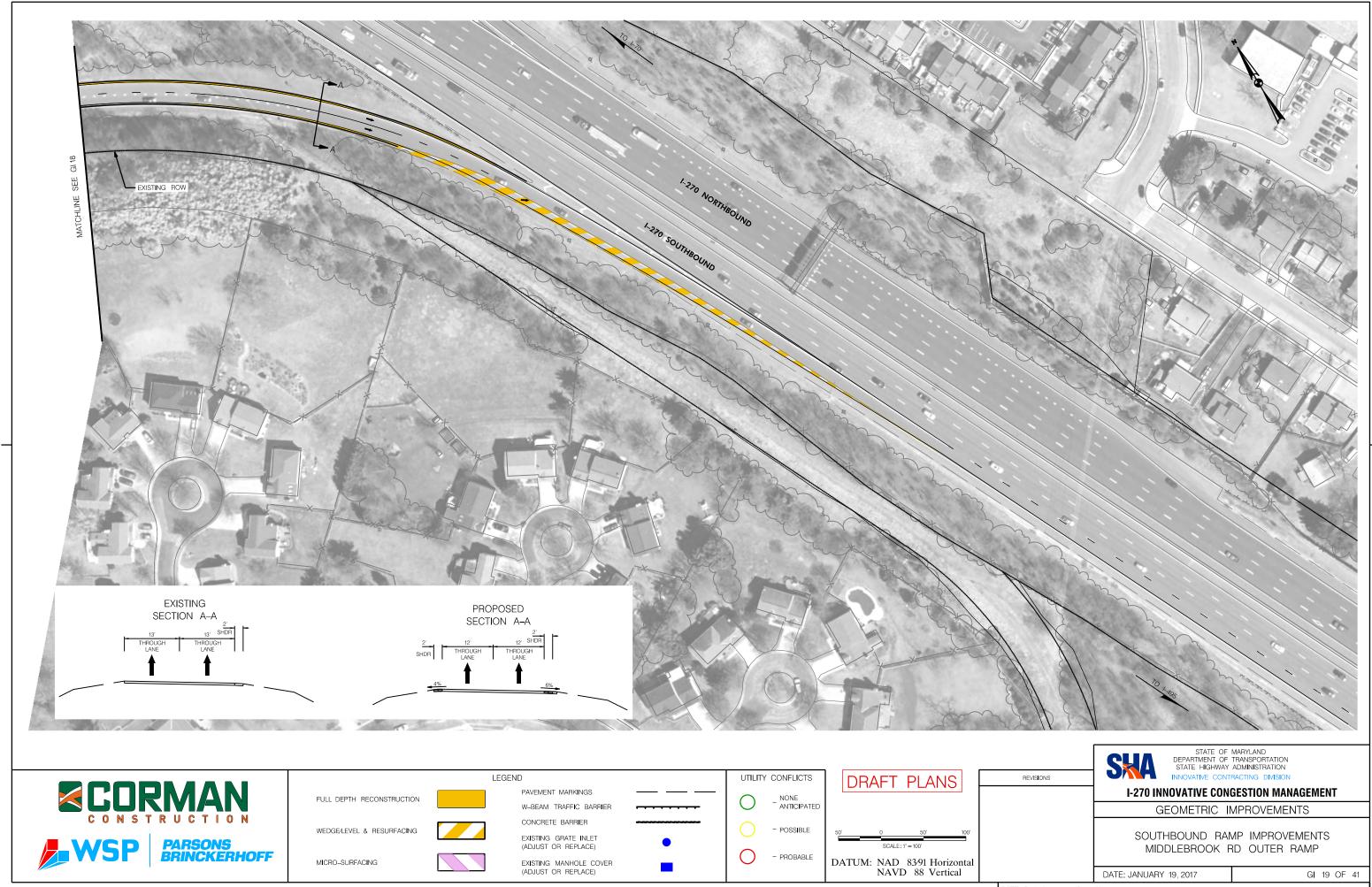
DATE: JANUARY 19, 2017

PLOTTED: Tuesday, January 17, 2017 AT 02:47 PM FILE: J:\201510144 - E270 ATM\Tech Proposal\Concepts\Ramp Metering\Geometric Improvements\Southbound\pHD-0007\_08\_SB\_Middlebrook\_Rd\_200\_Scale.dgn

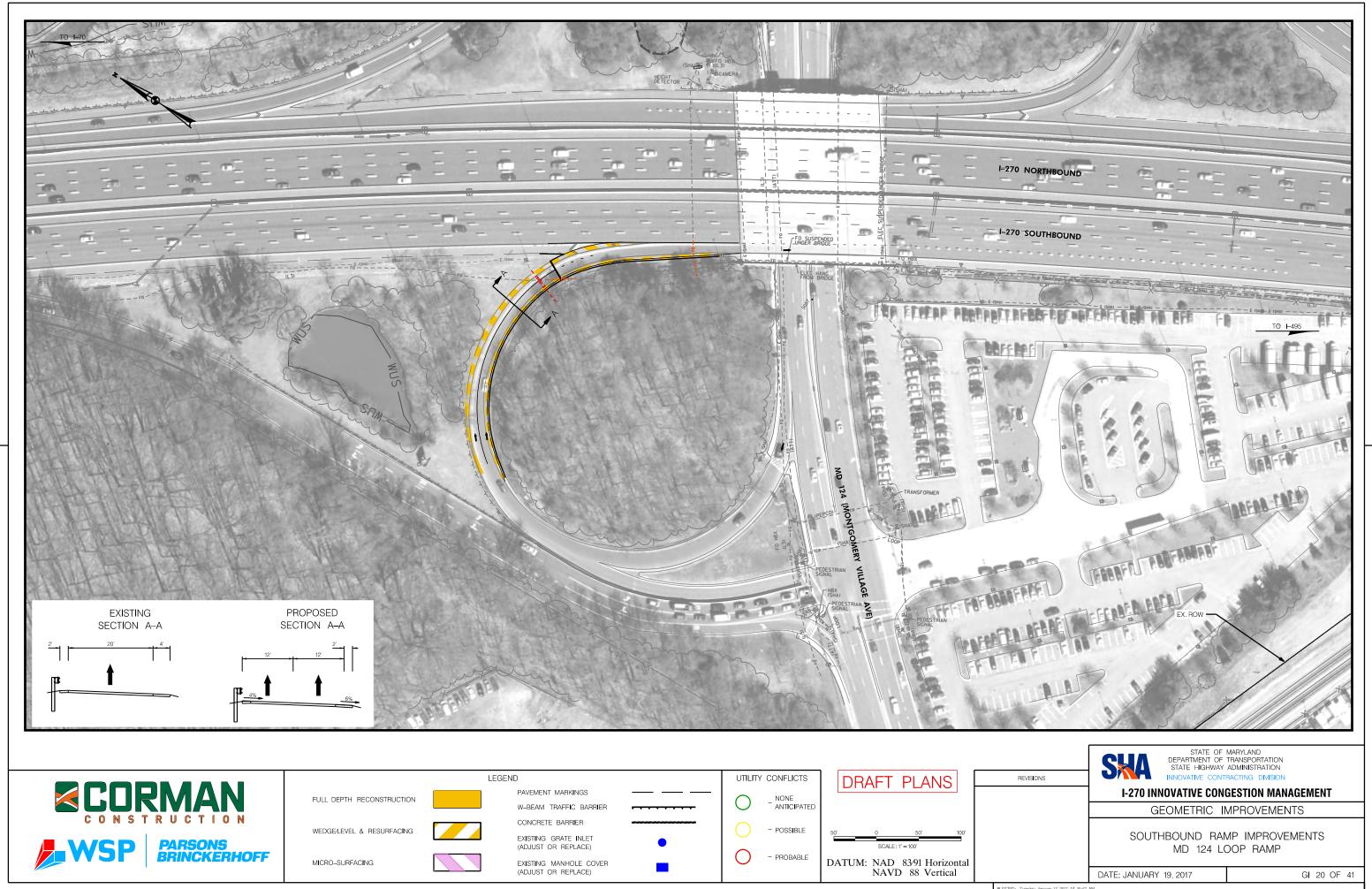




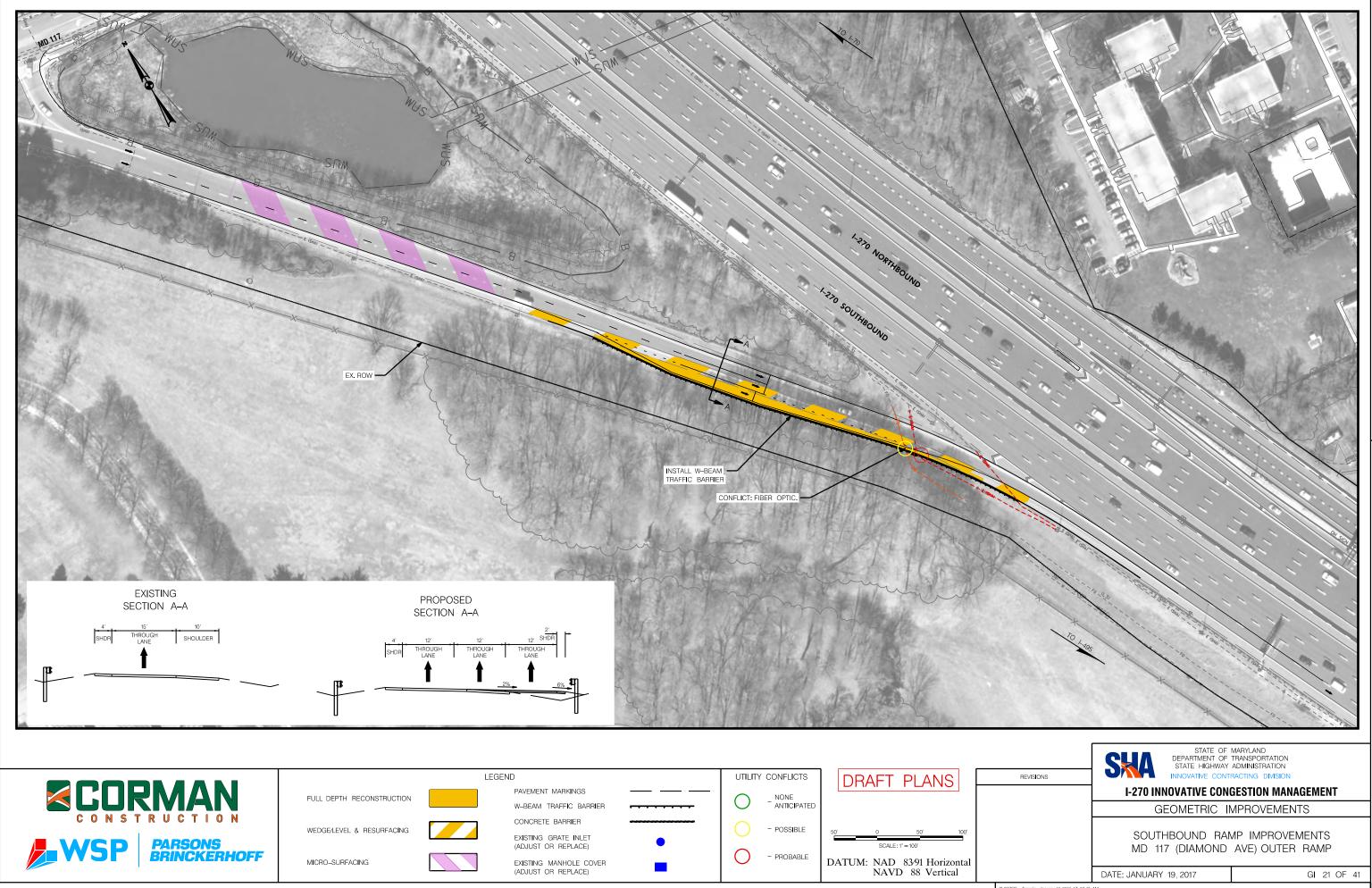
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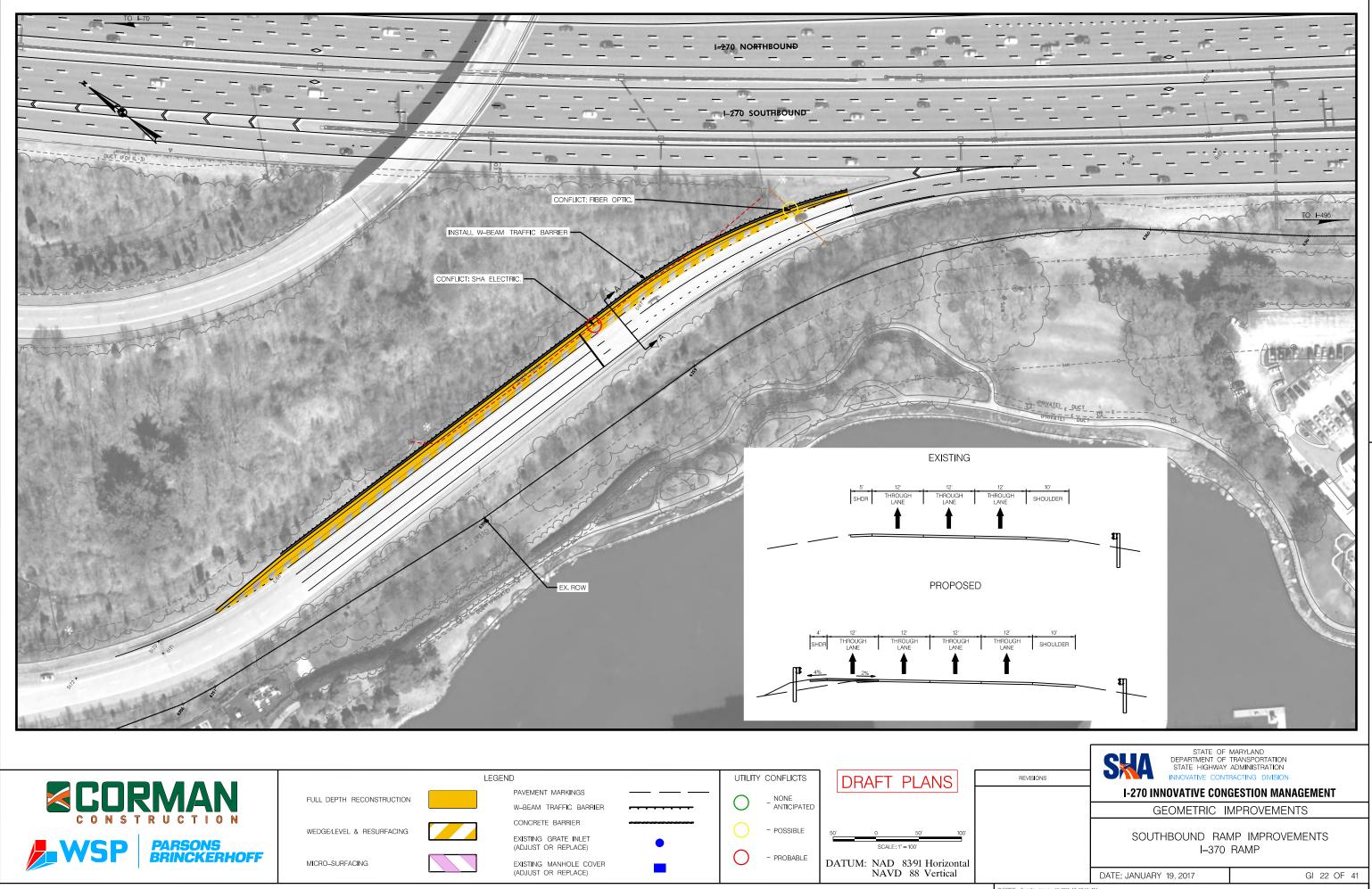
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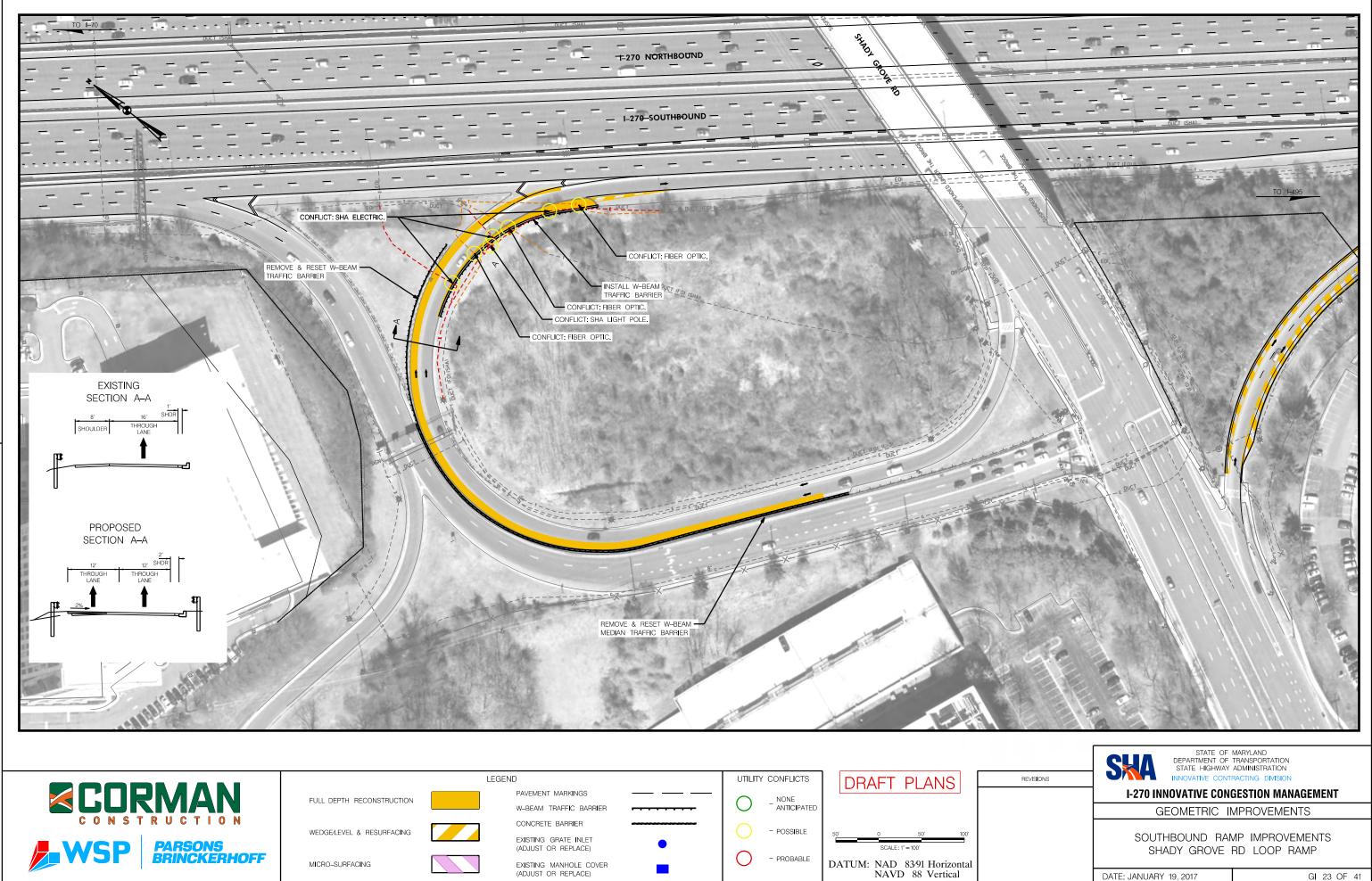
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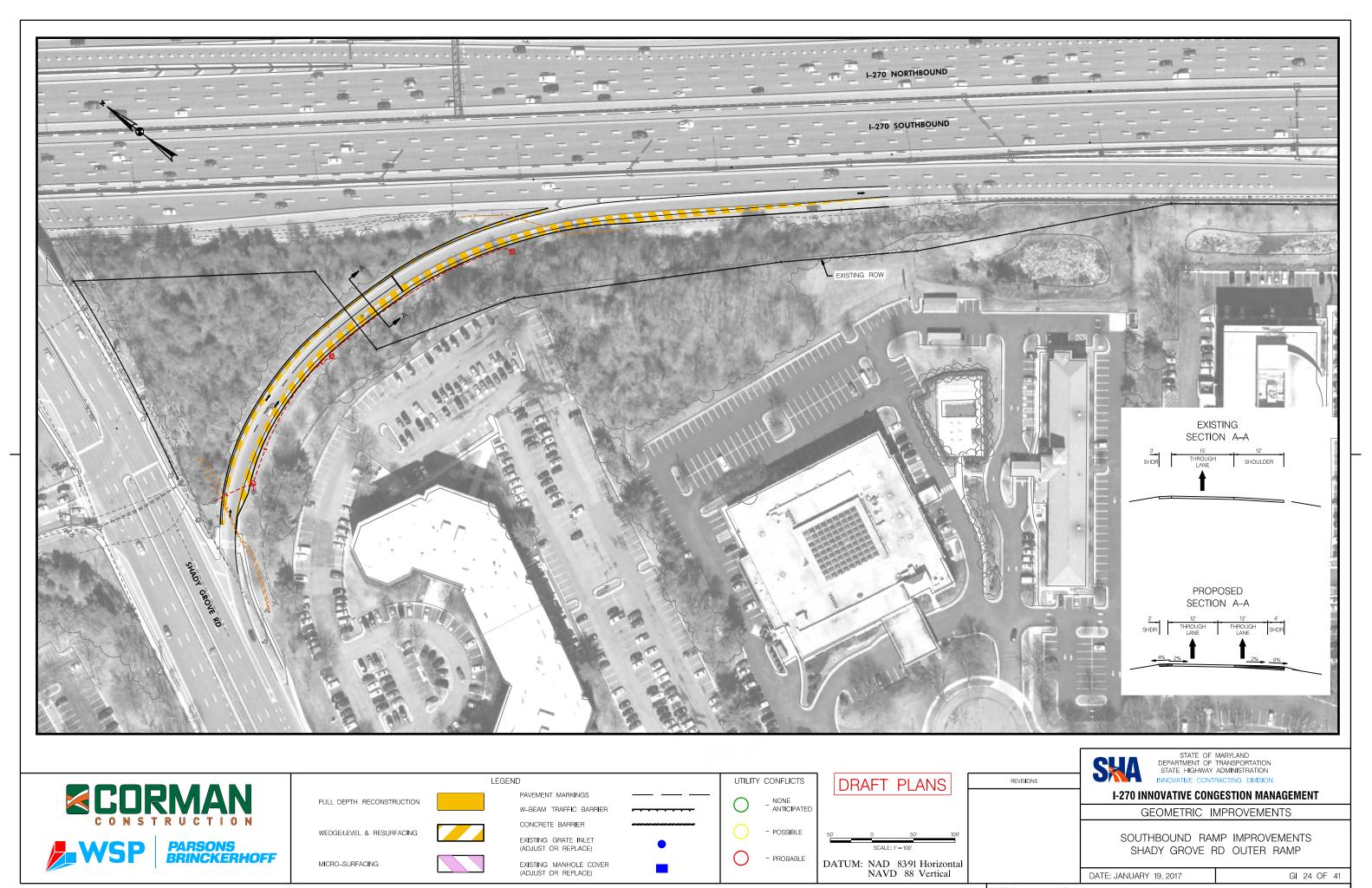
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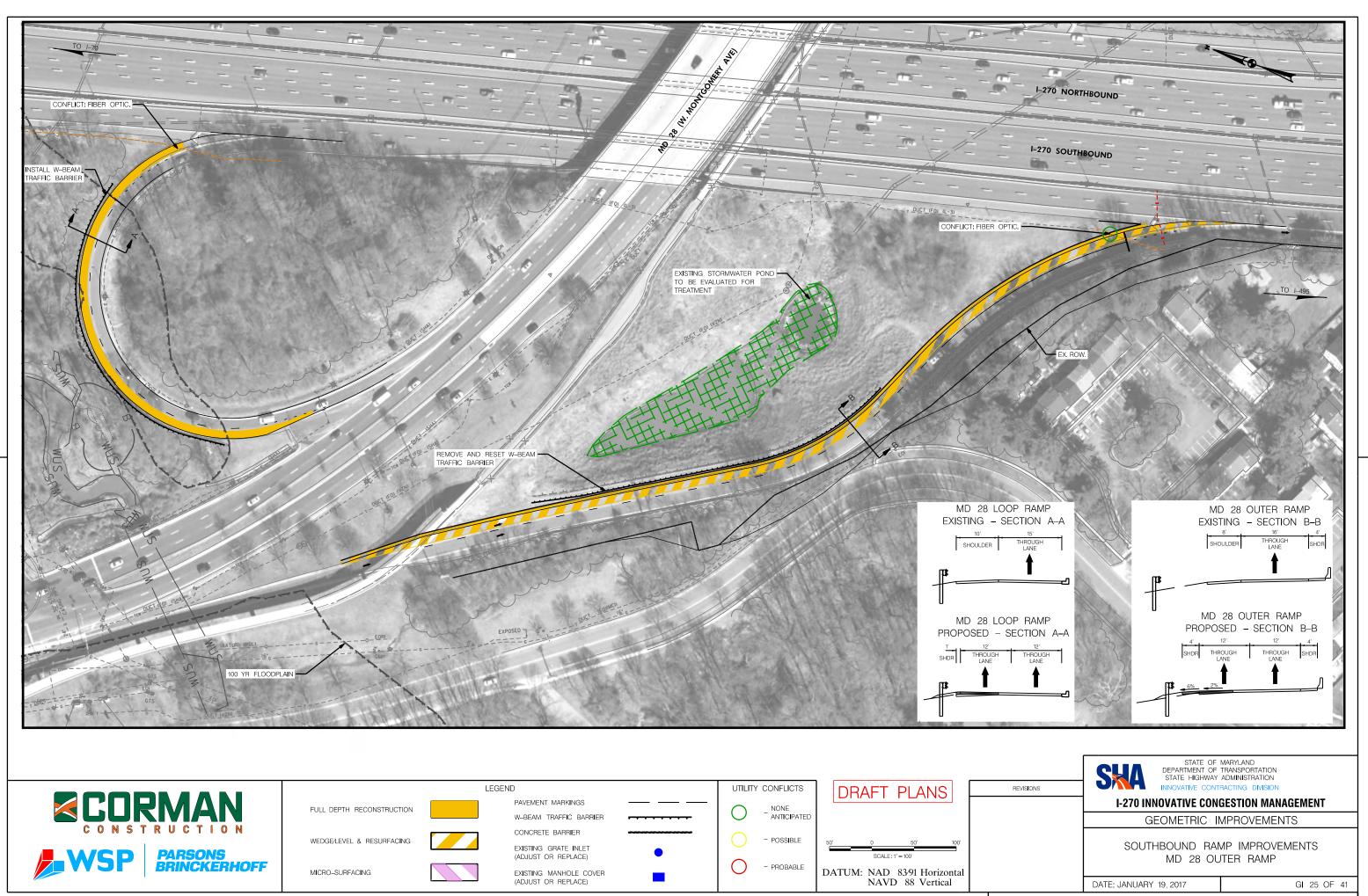
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PLOTTED: Tuesday, January 17, 2017 AT 07:52 AM FILE: \\ambilitilio2\dos\_agreements\2015/0144 - I-270 ATM\Tech Proposal,Concepts\Ramp Metering\Geometric Improvements\Southbound\pHD-0013\_SB\_Shady\_Grove\_Loop.dgn

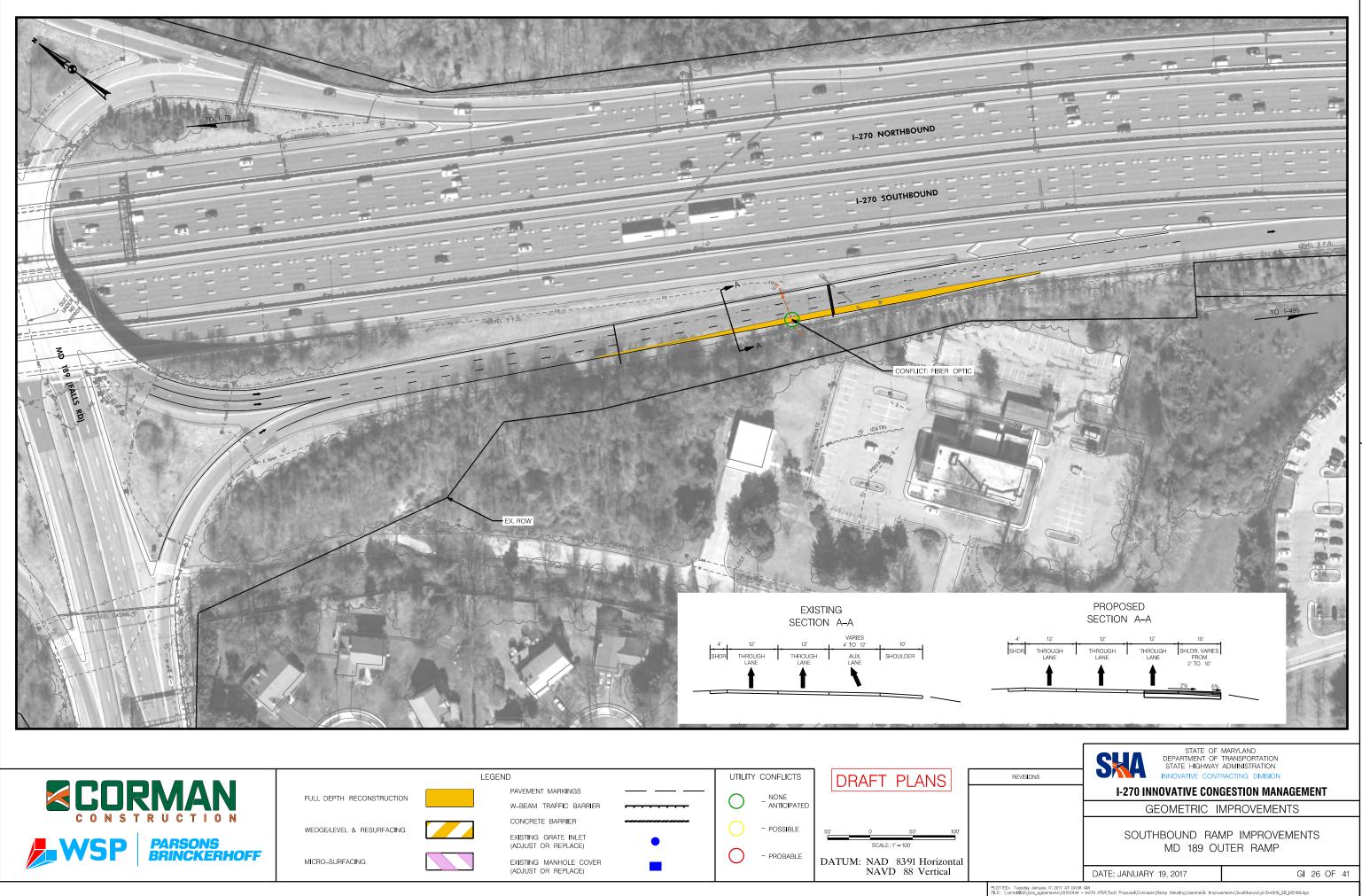


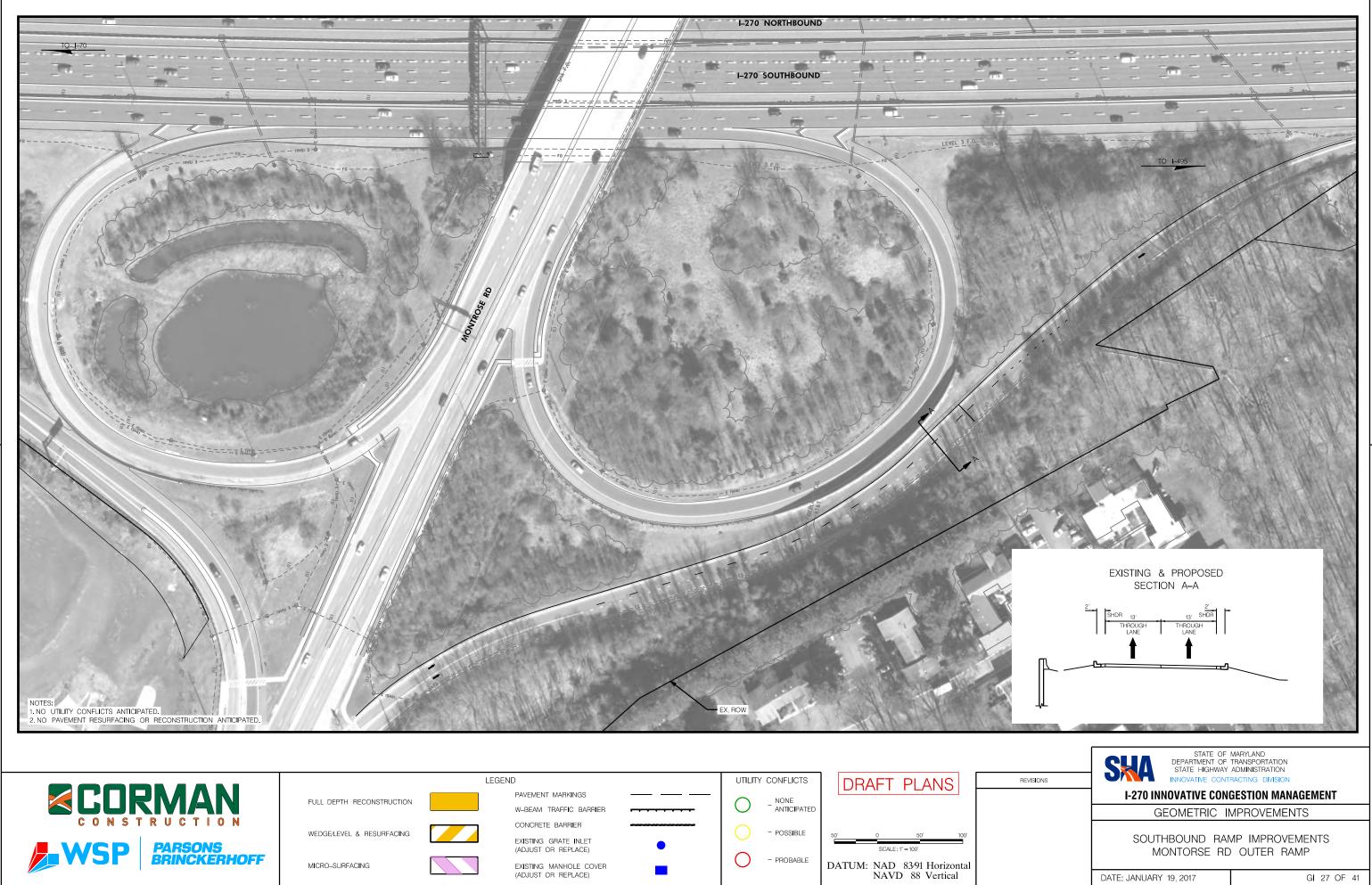
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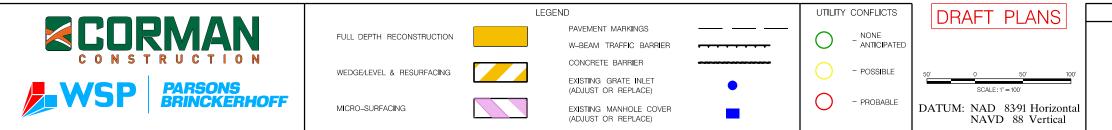


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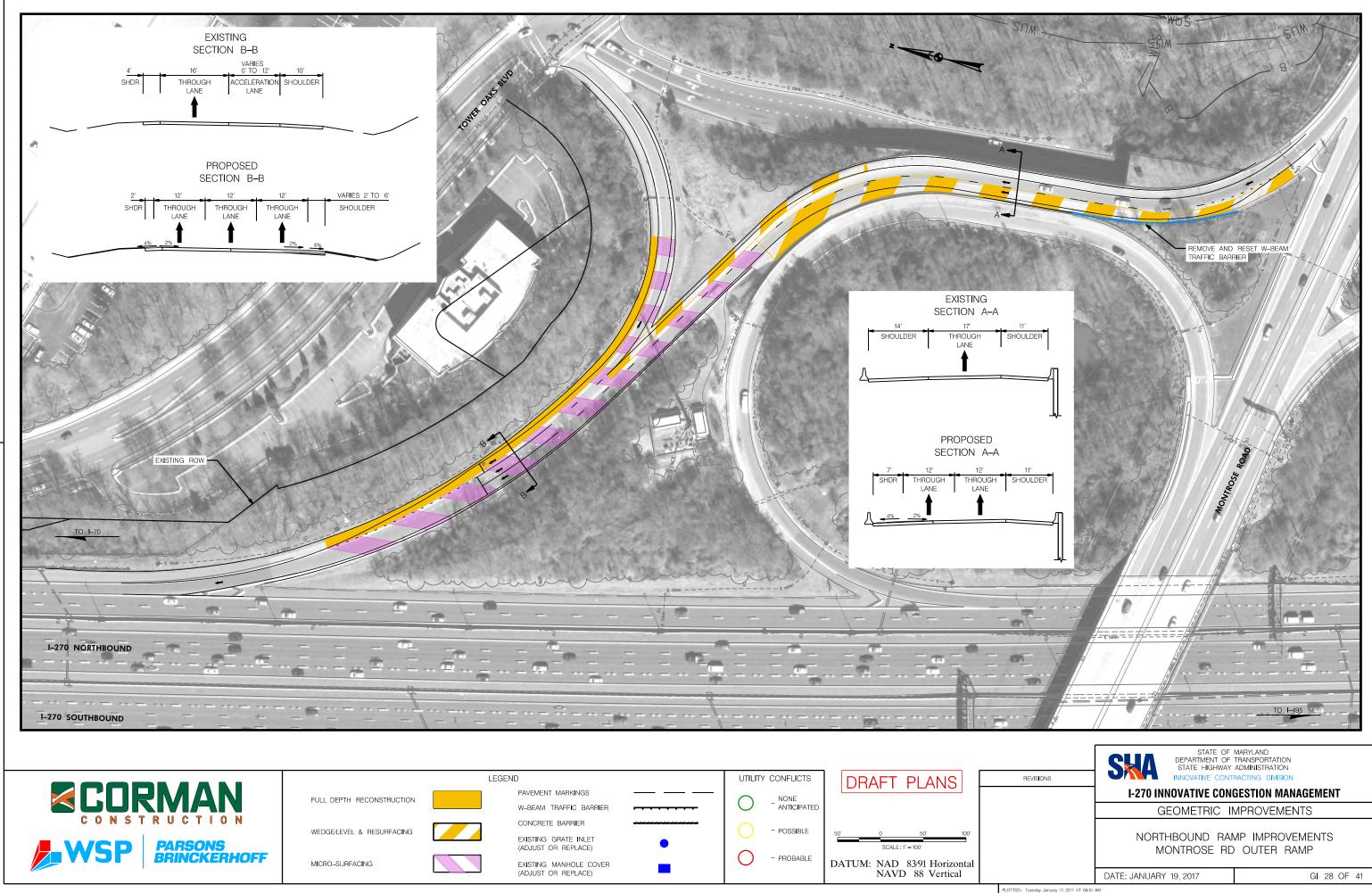
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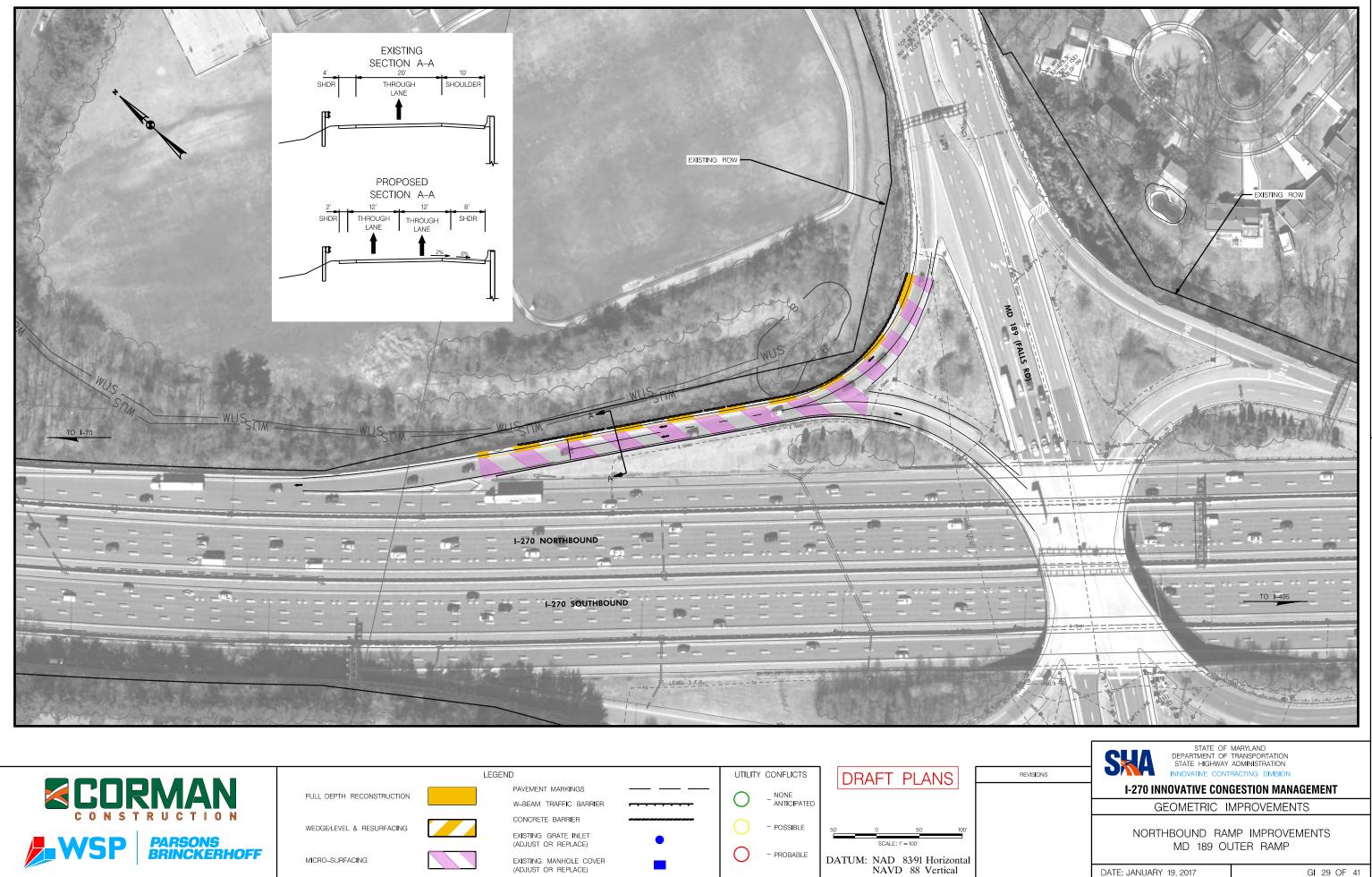




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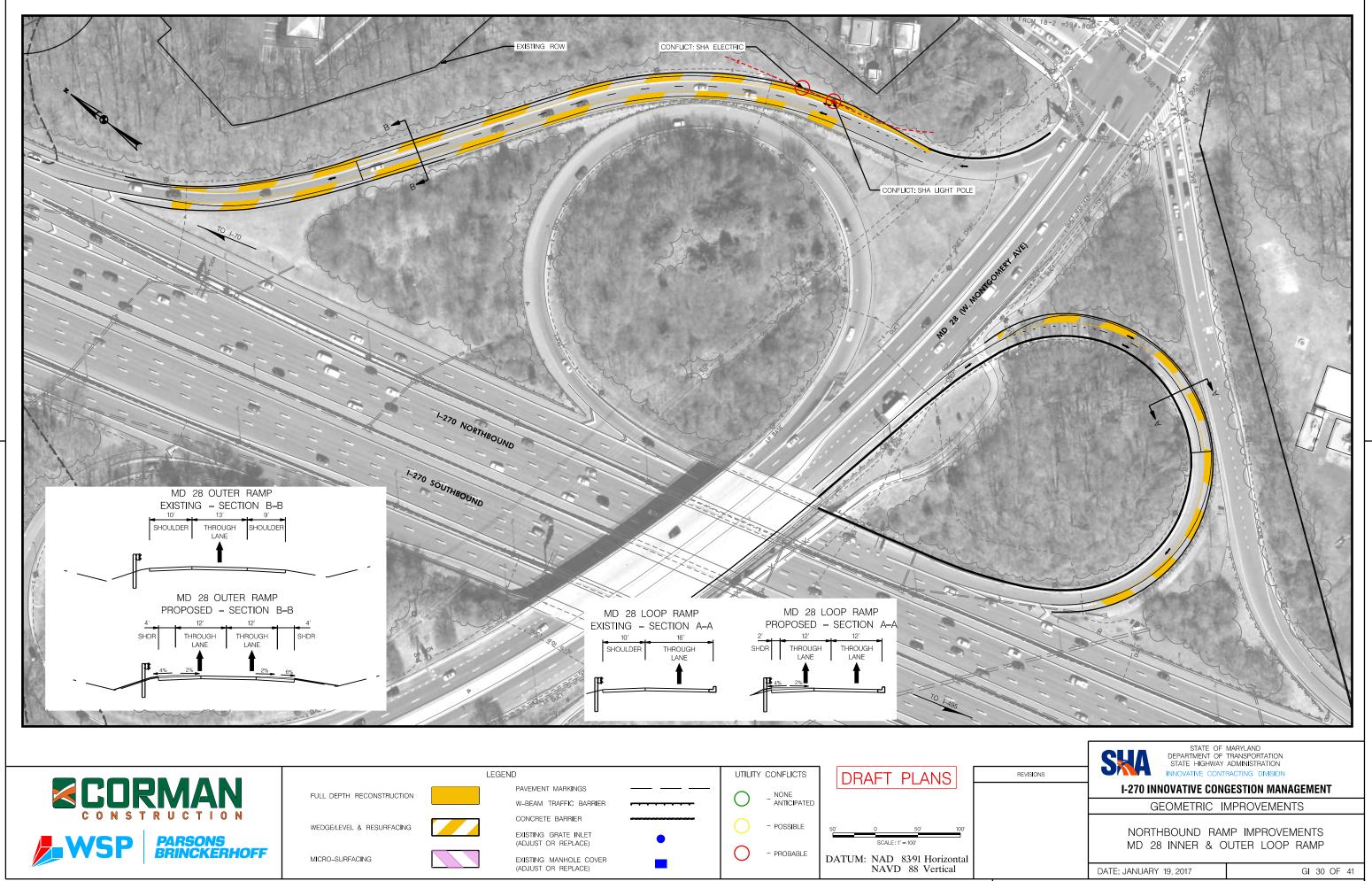


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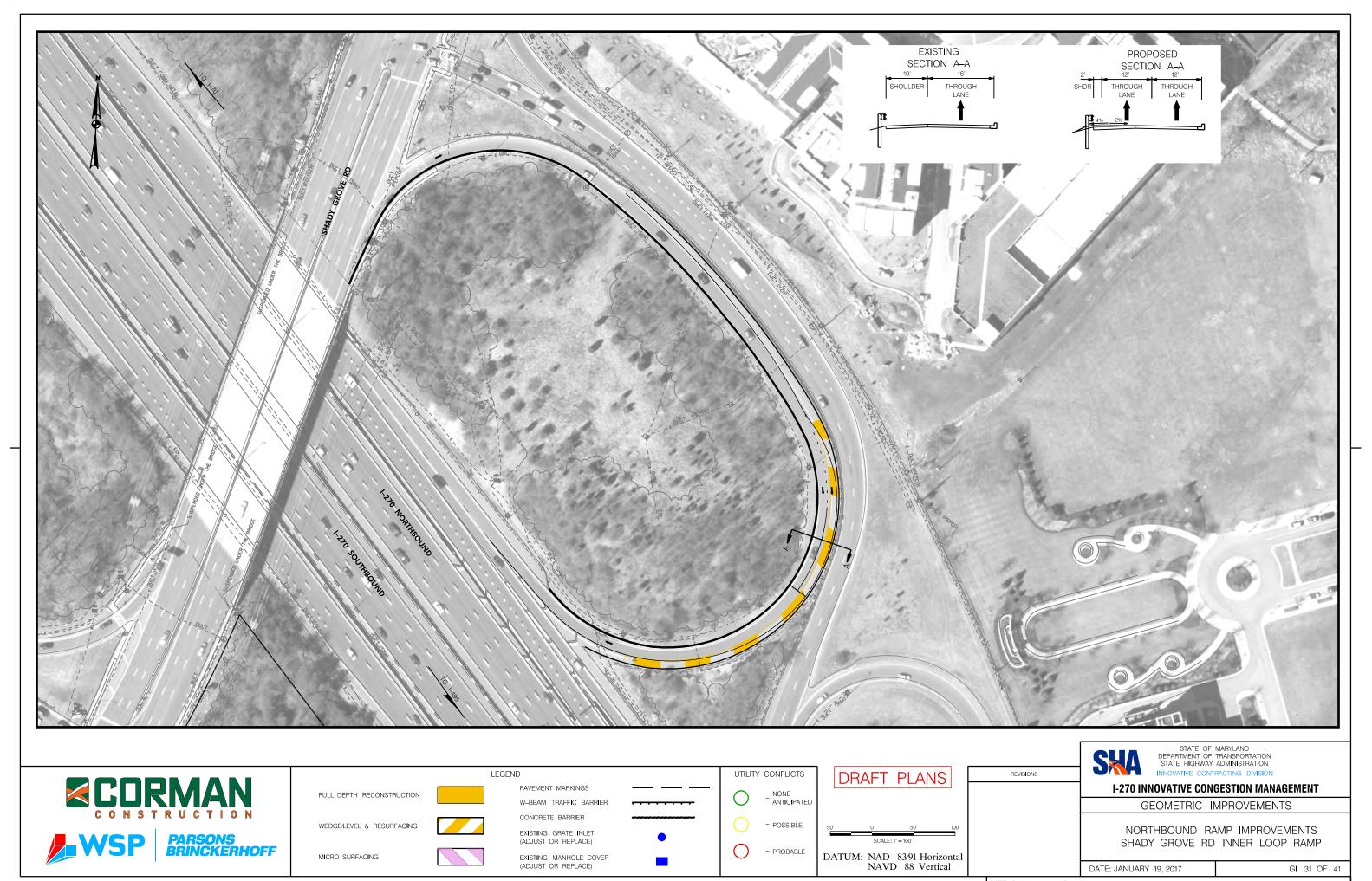




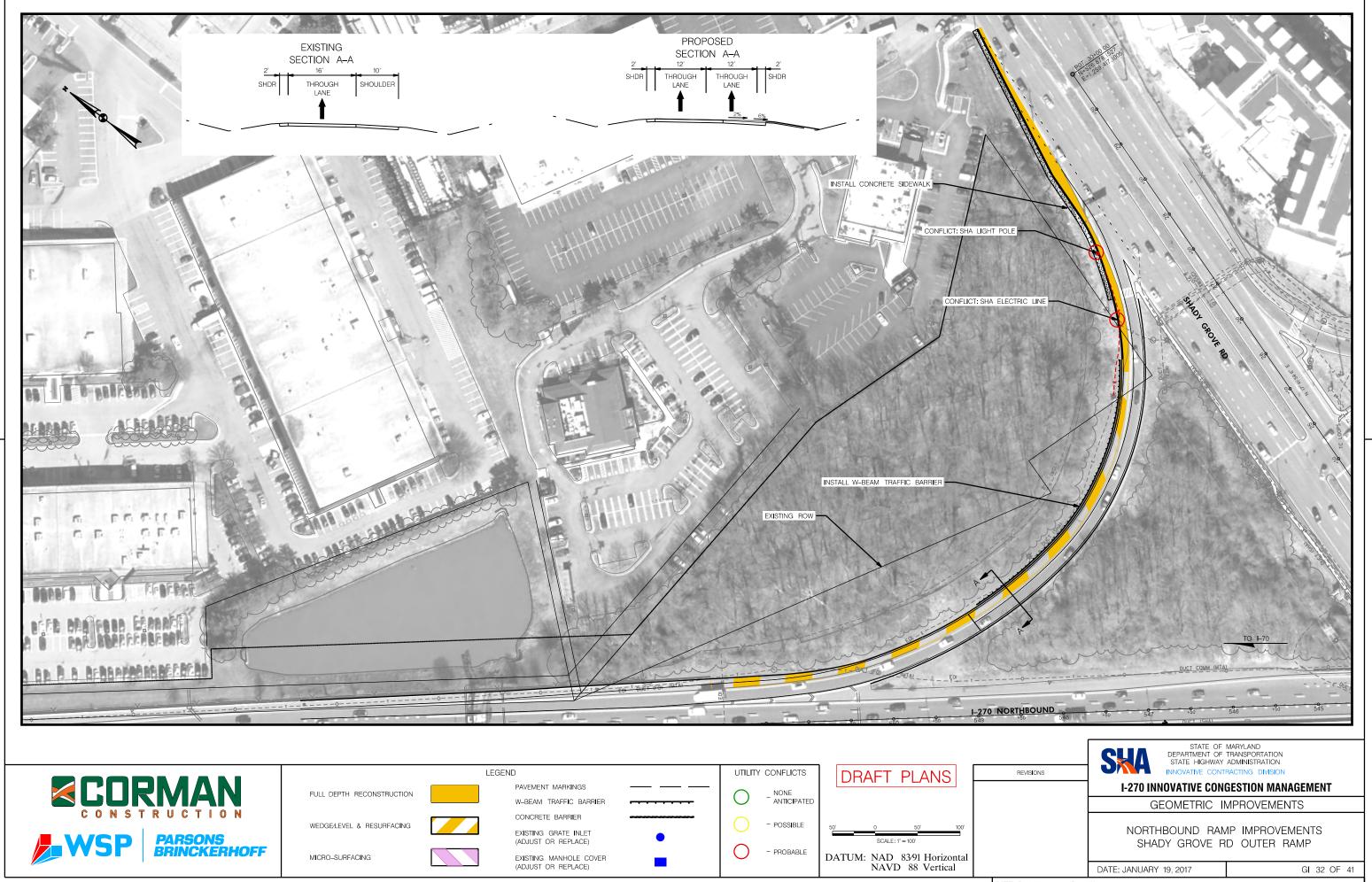
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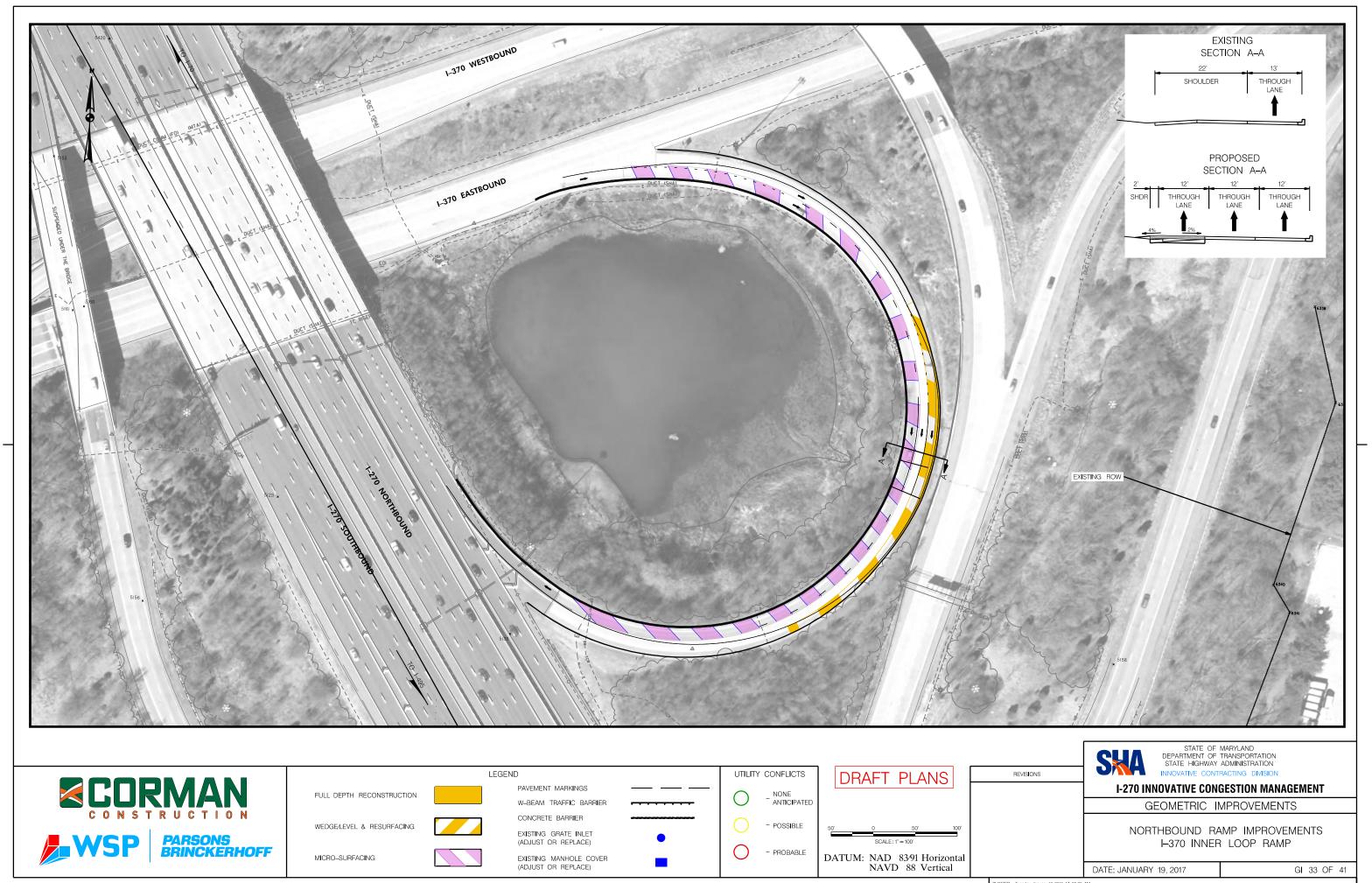
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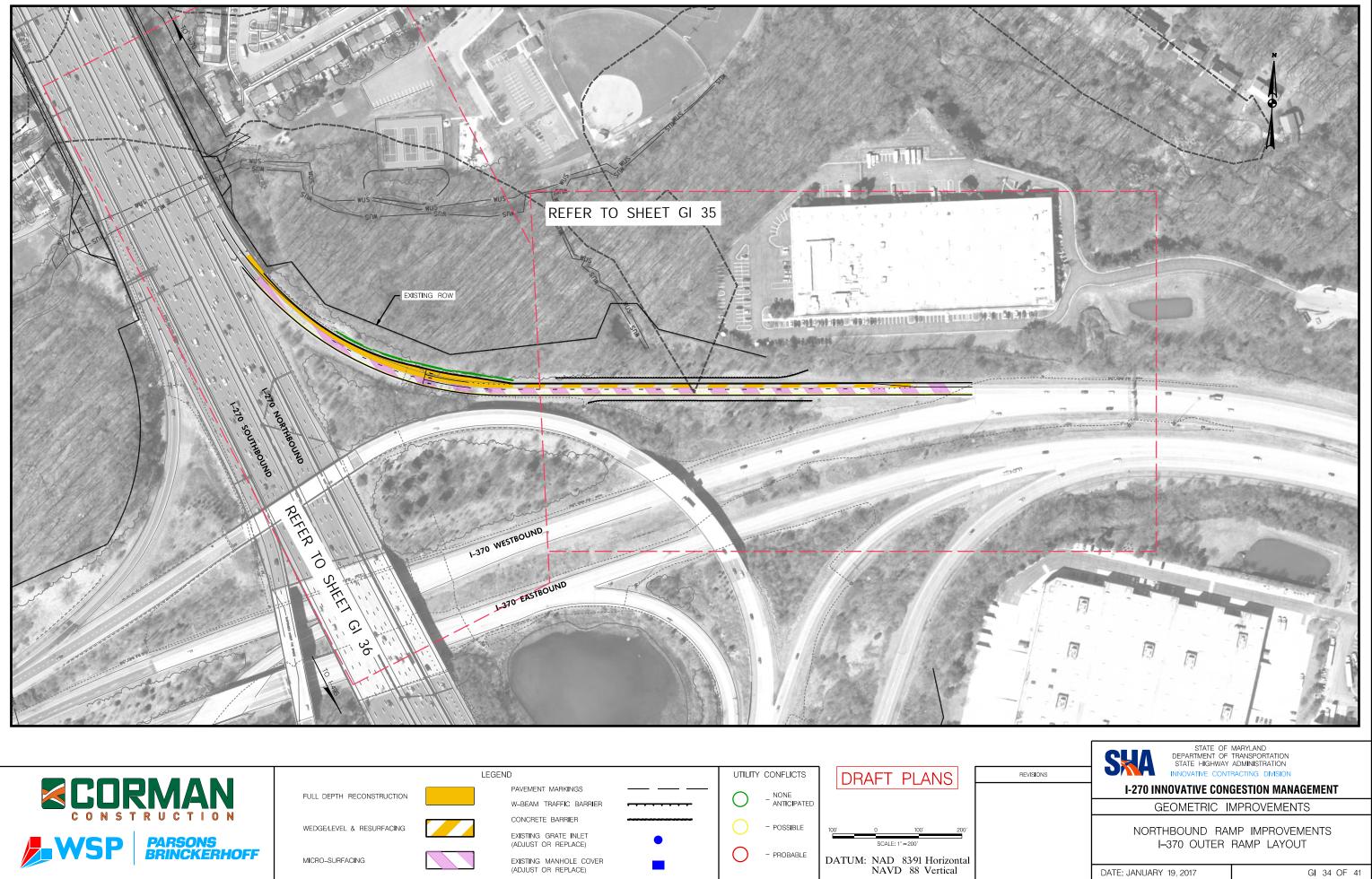
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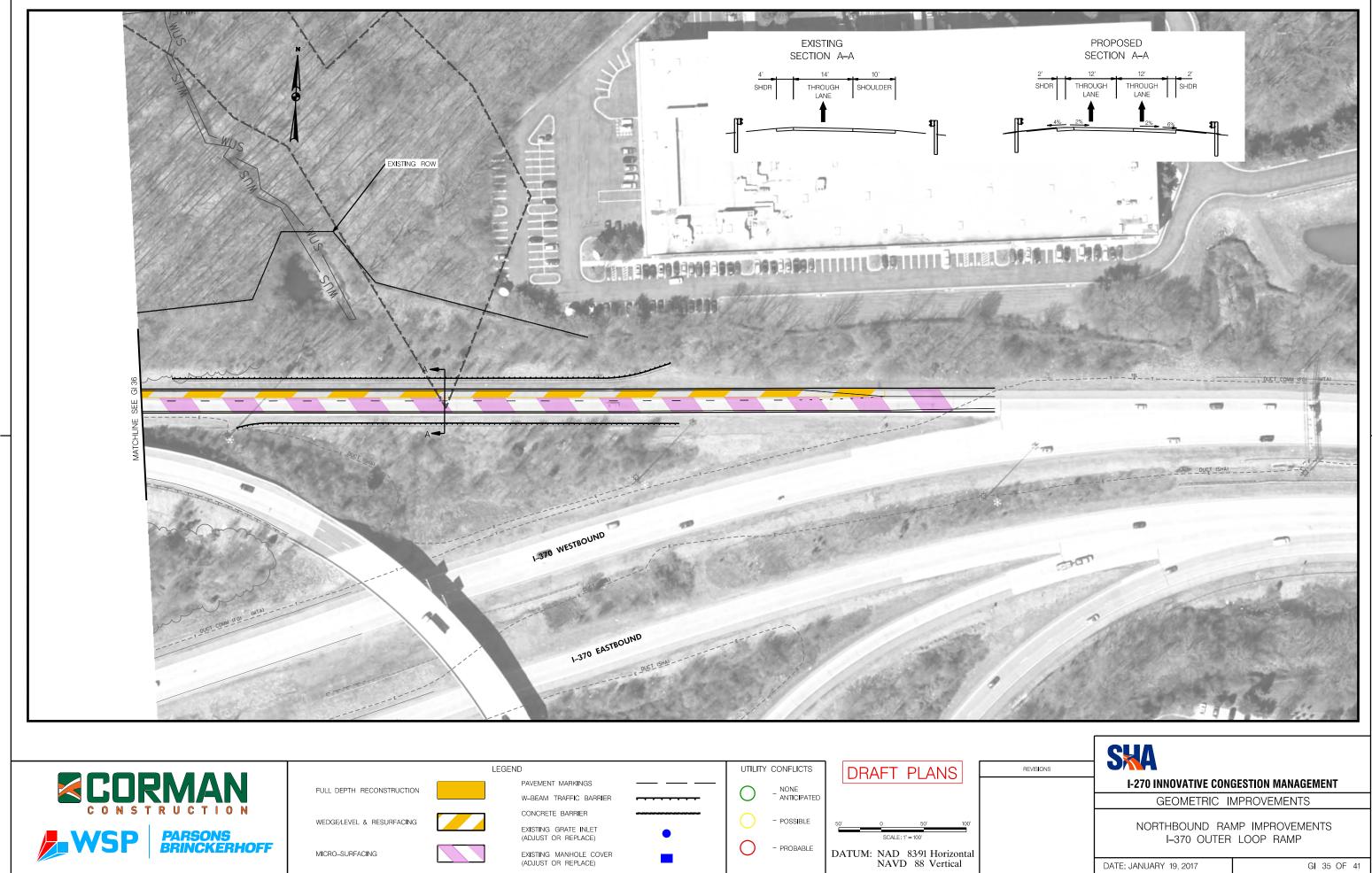




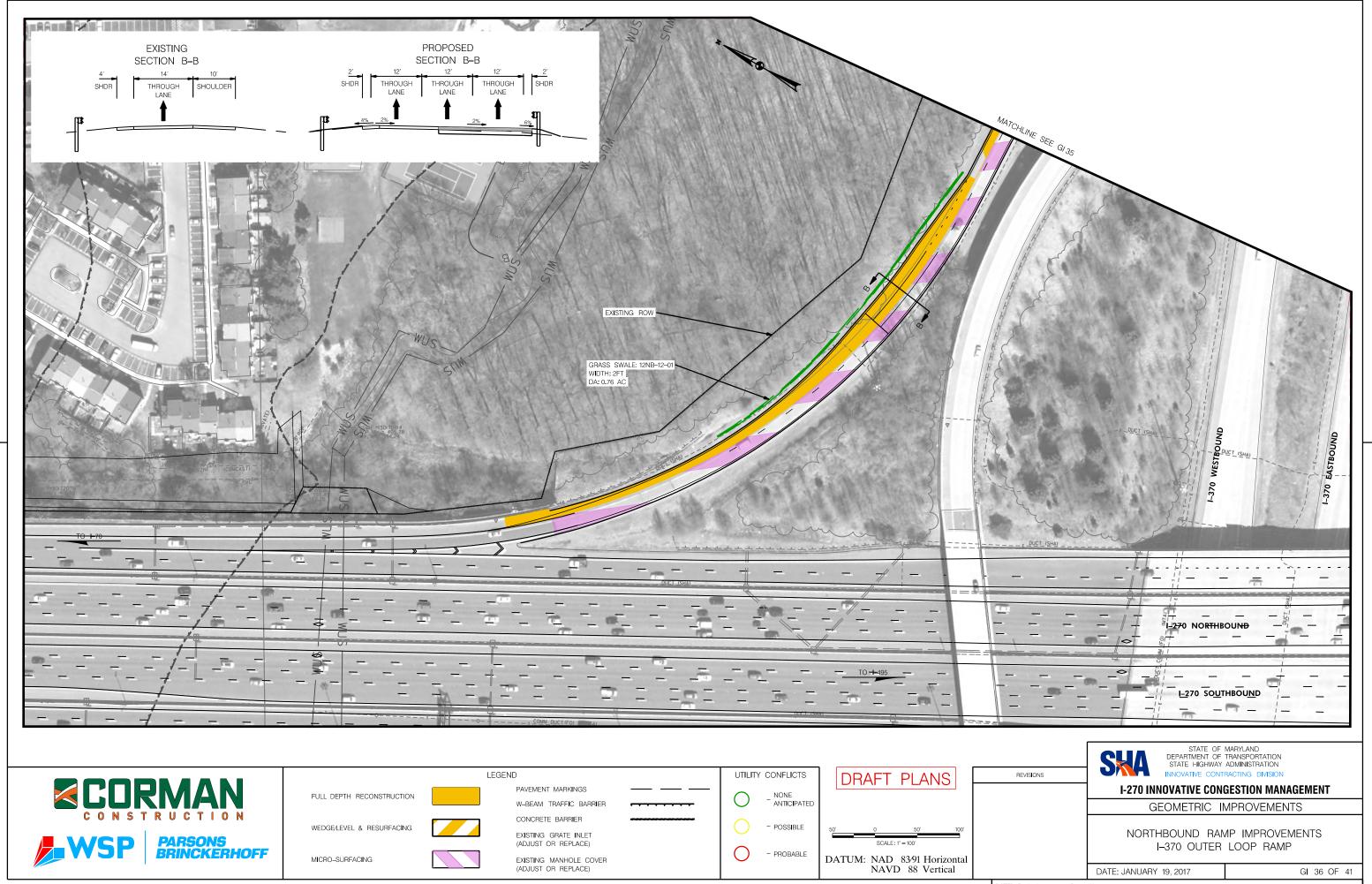
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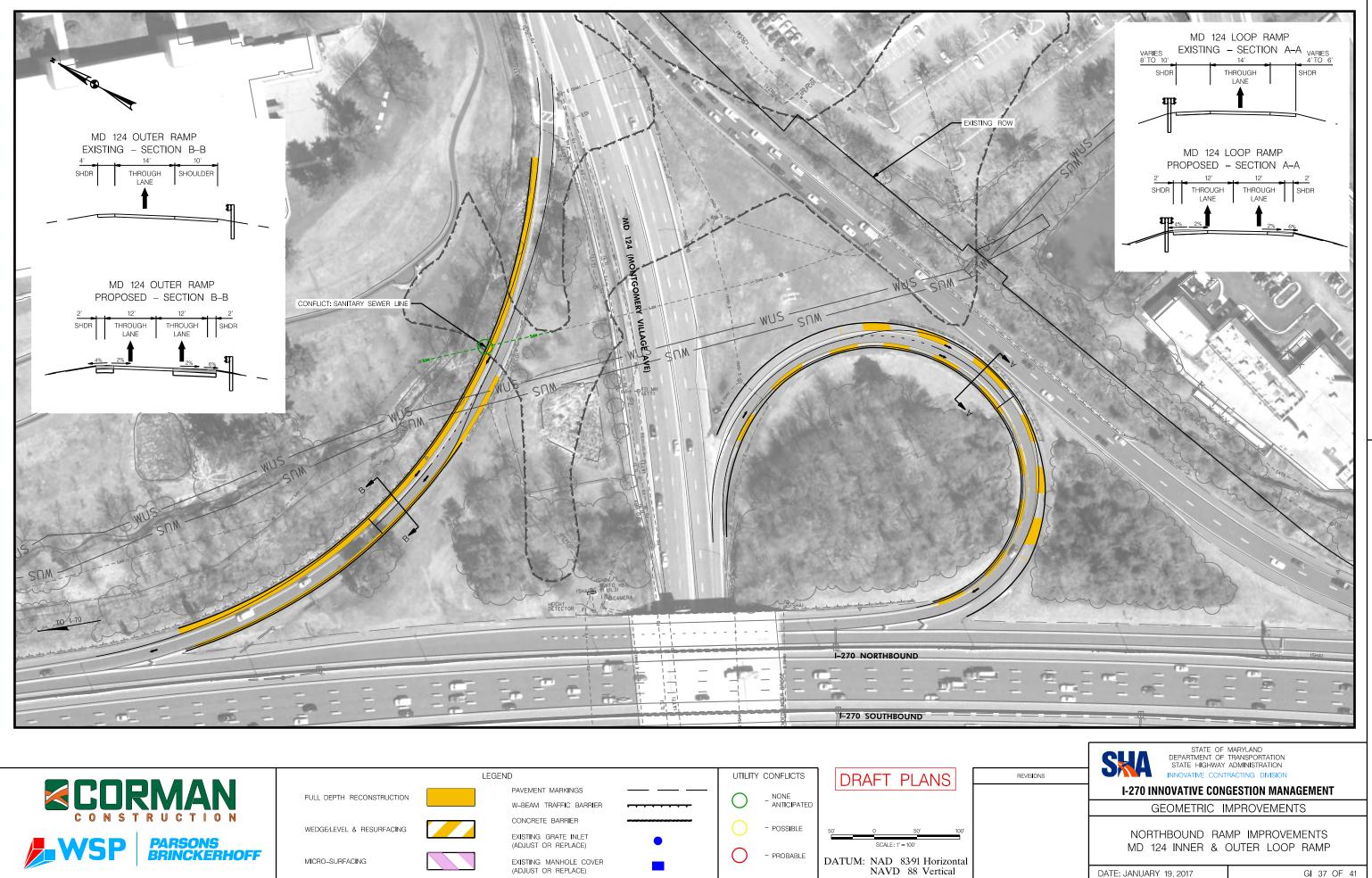
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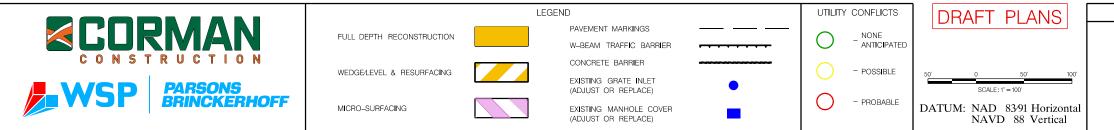


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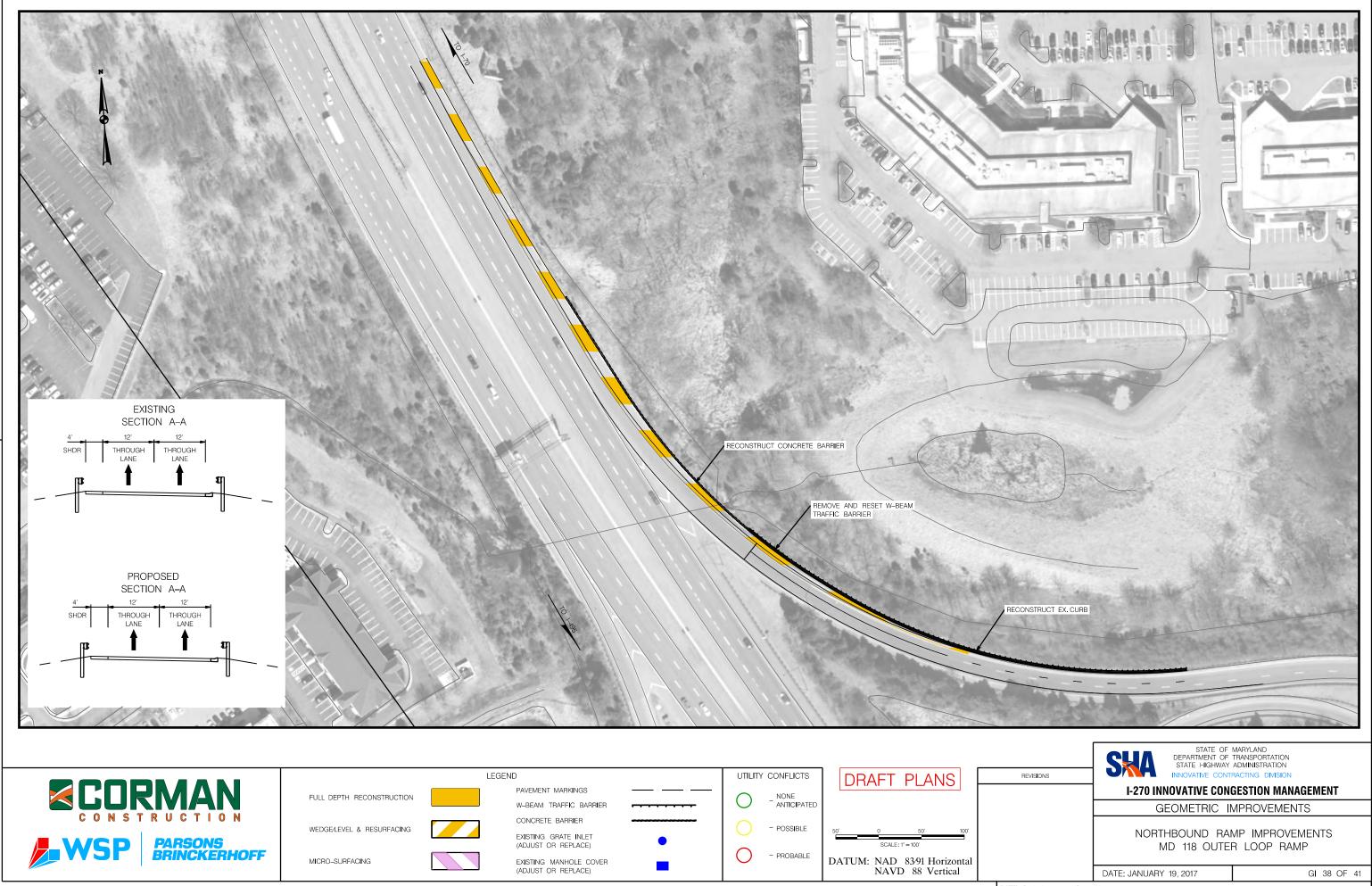


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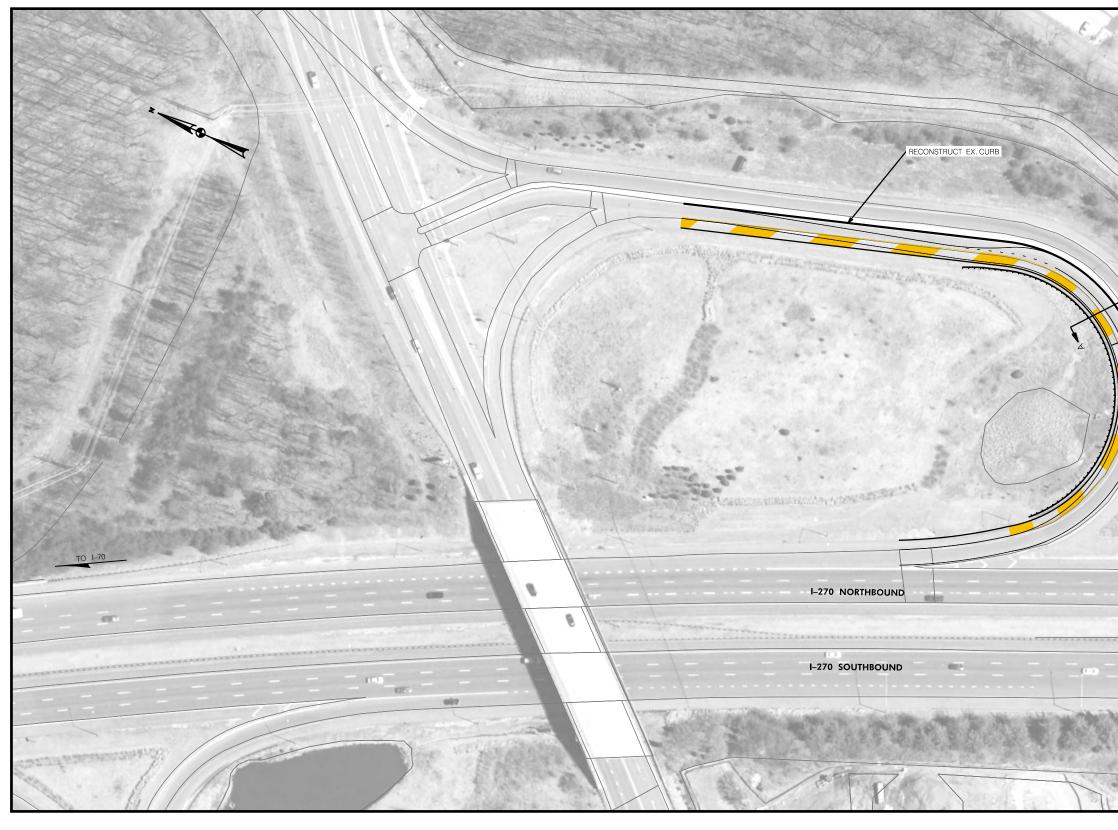


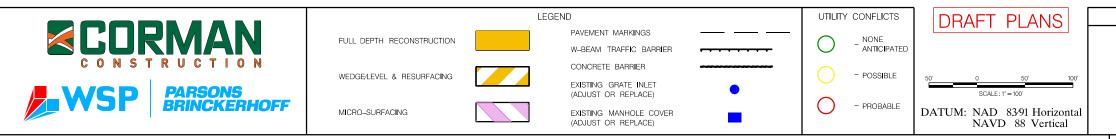


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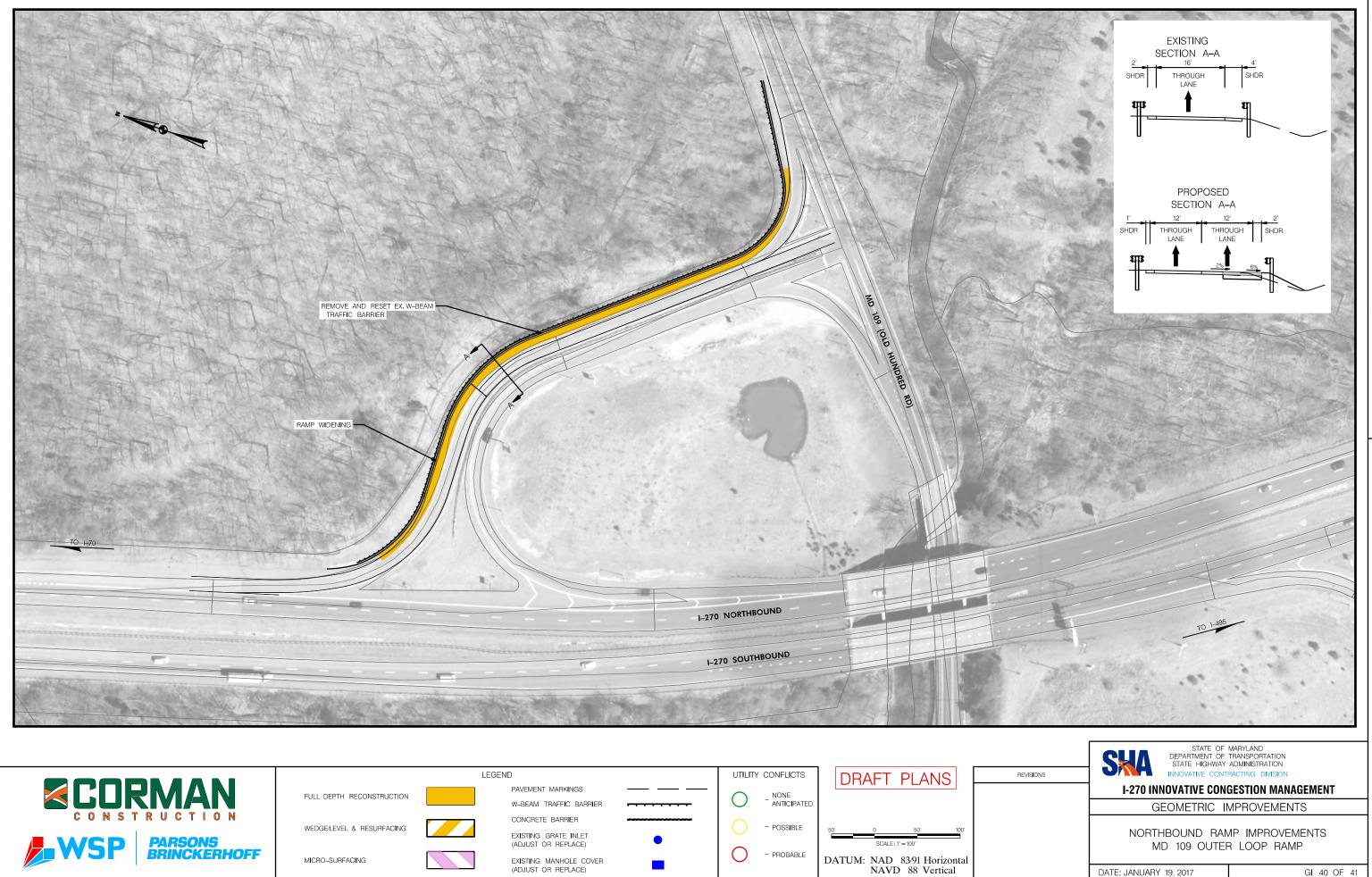
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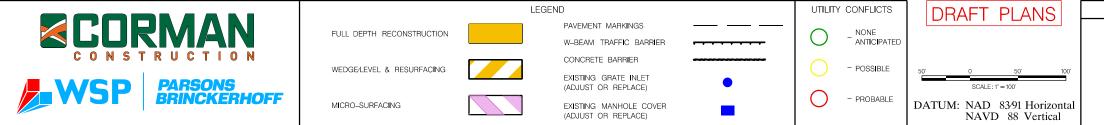




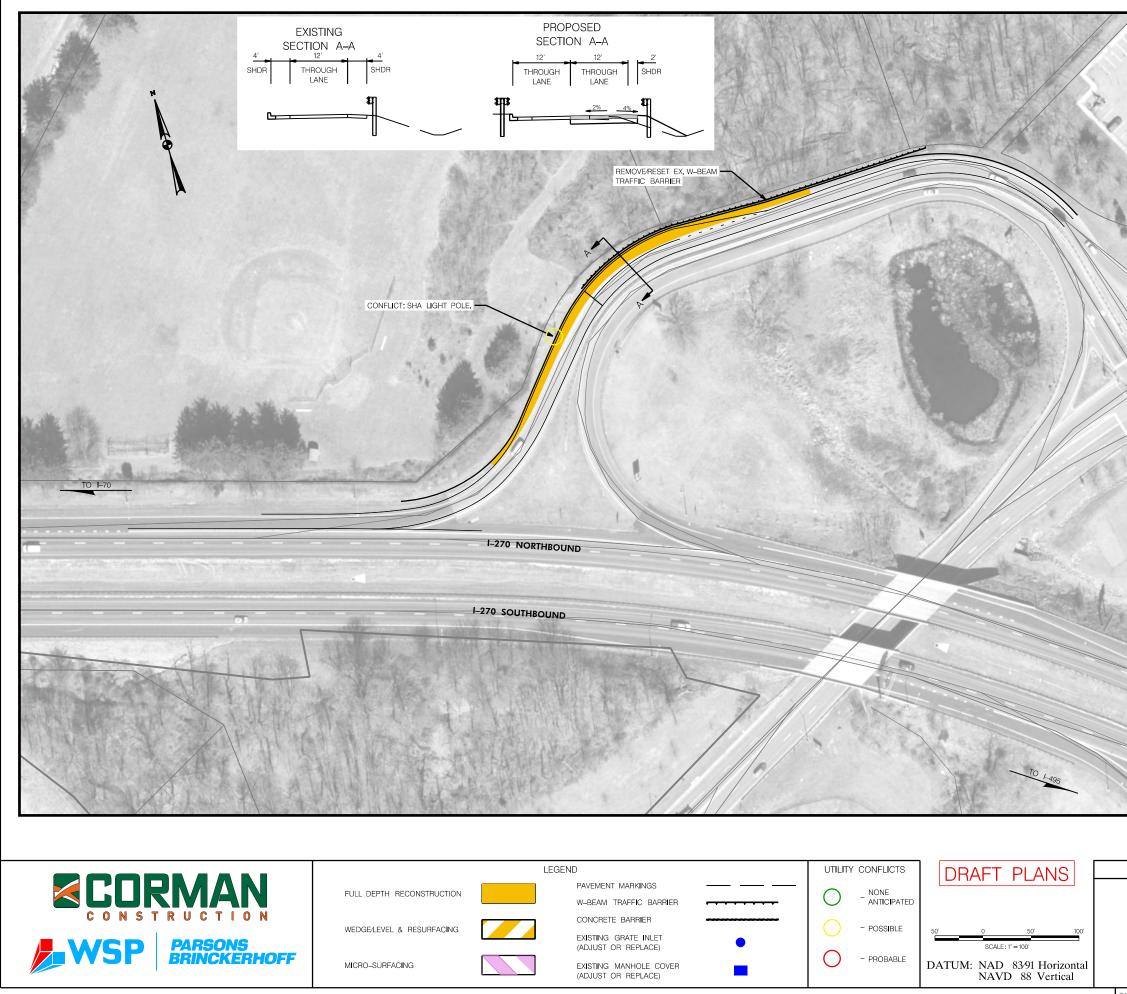
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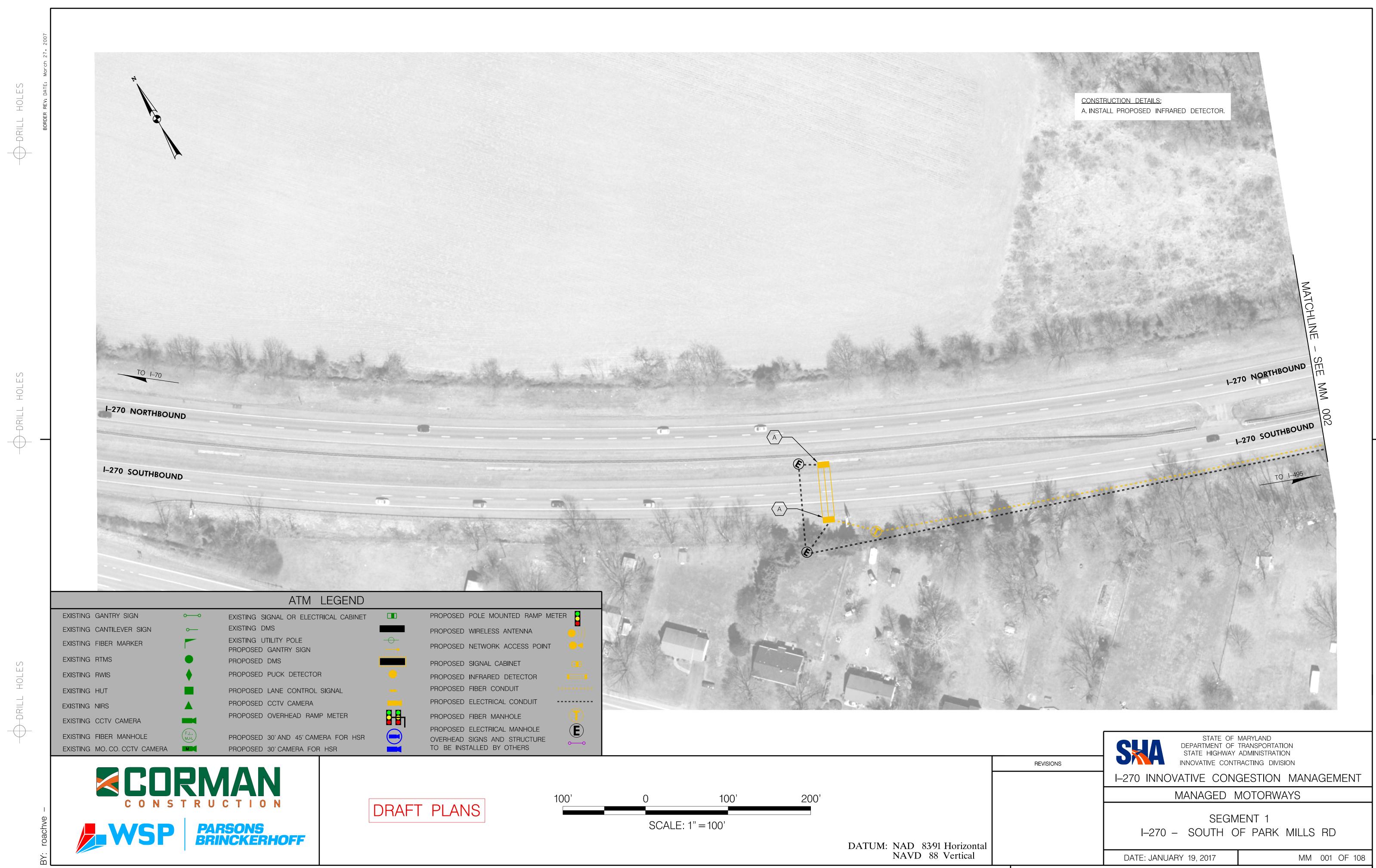


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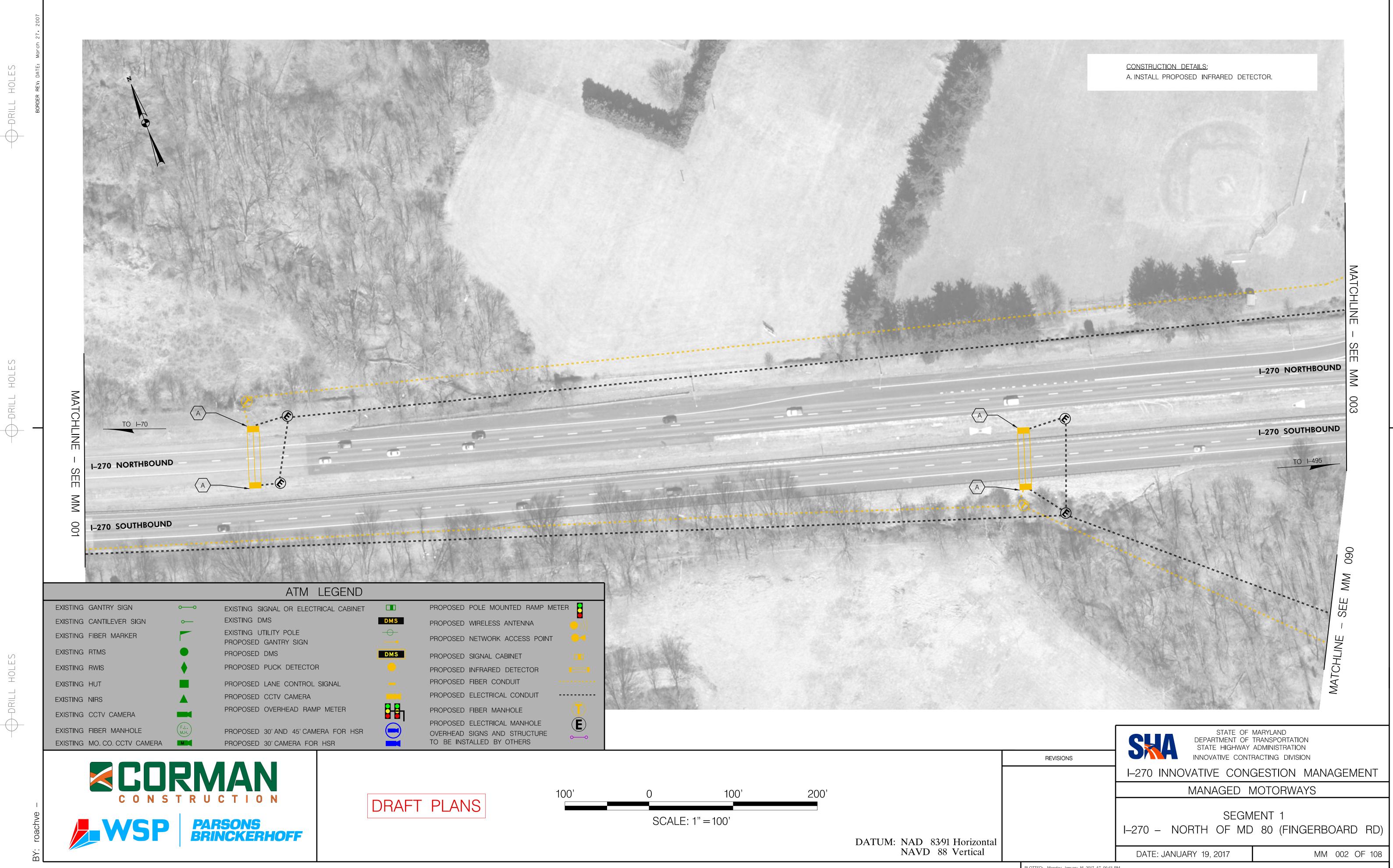


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