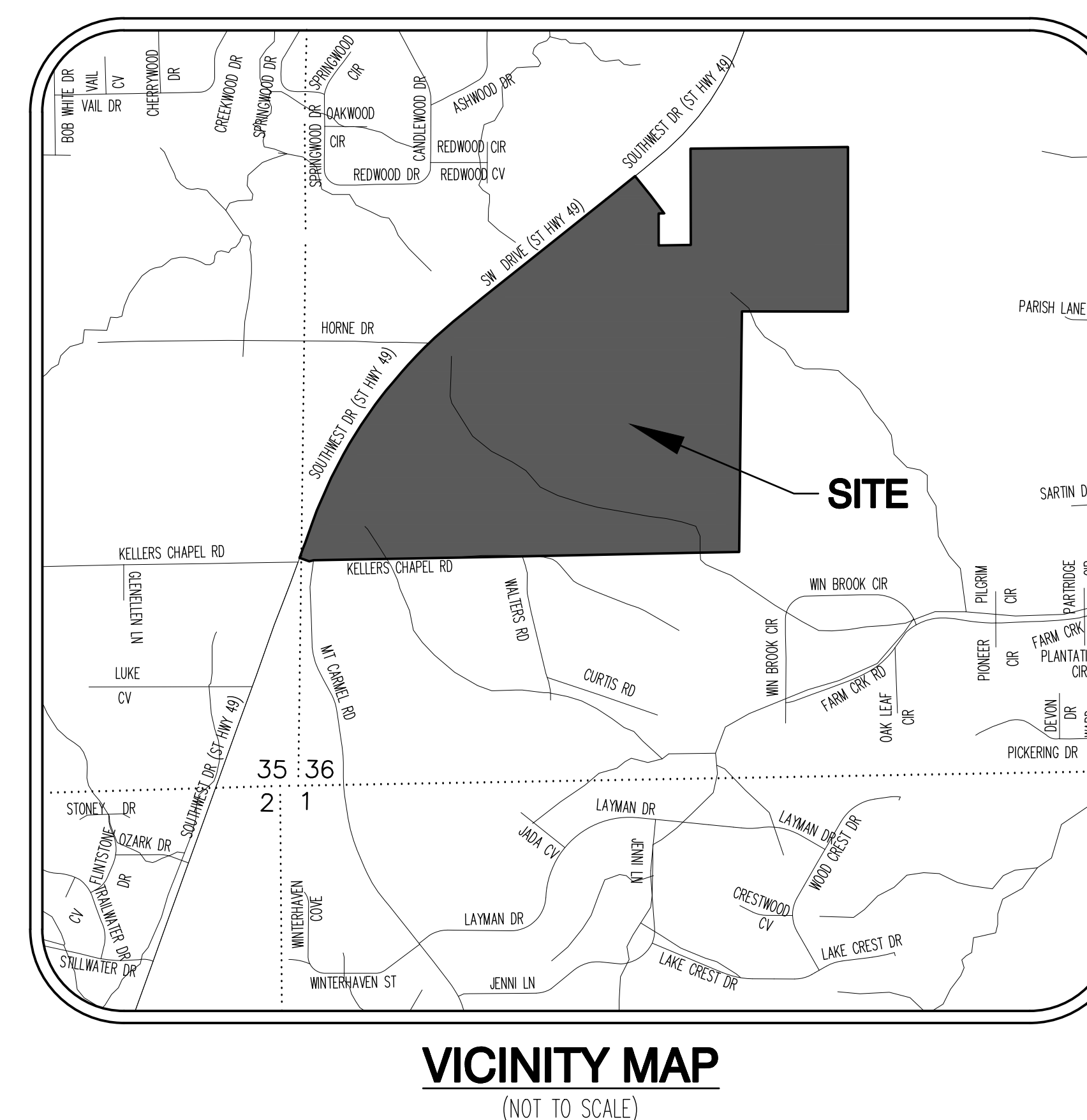
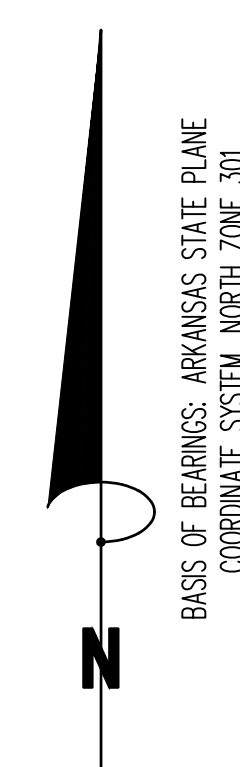


**SOUTHERN HILLS**  
**SUBDIVISION PLANS**  
**SOUTHWEST DR. & KELLERS CHAPEL RD.**  
**JONESBORO, CRAIGHEAD COUNTY, ARKANSAS**



| SHEET INDEX |                         |           |
|-------------|-------------------------|-----------|
| PAGE        | DESCRIPTION             | DATE      |
| C1          | COVER SHEET             | 6/30/2020 |
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| C3          | EROSION CONTROL         | 6/30/2020 |
| C4          | GRADING & DRAINAGE PLAN | 6/30/2020 |
| C5-C8       | STREET PLAN & PROFILE   | 6/30/2020 |
| C9          | WATER PLAN              | 6/30/2020 |
| C10         | SEWER PLAN              | 6/30/2020 |
| C11-C18     | SEWER PLAN & PROFILE    | 6/30/2020 |
| C19         | CONSTRUCTION DETAILS    | 6/29/2020 |
| C20         | SEWER DETAILS           | 6/30/2020 |
| C21         | WATER DETAILS           | 6/30/2020 |

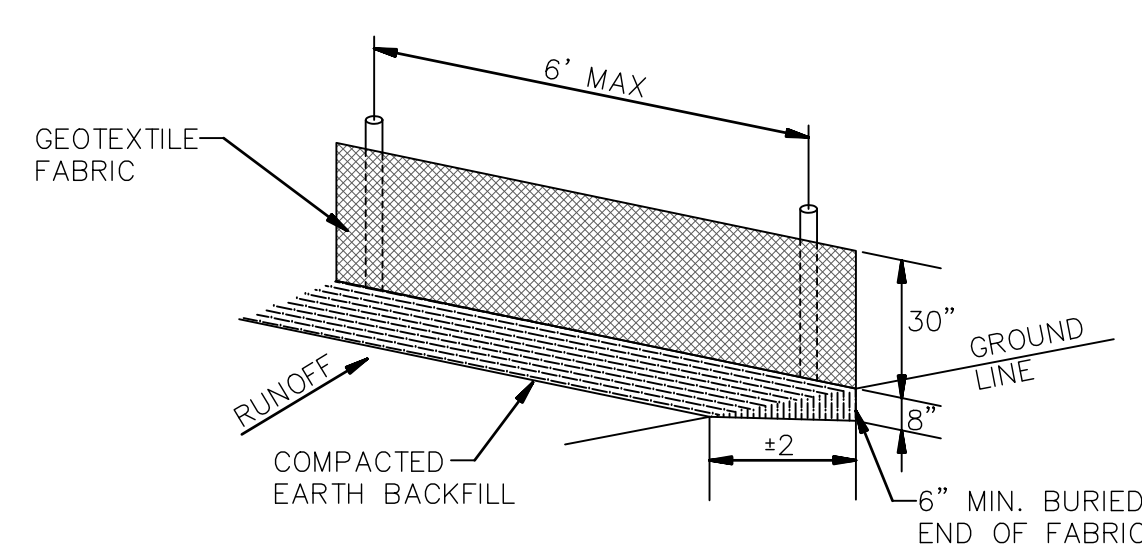
| LOCAL CONTACT INFORMATION                   |                                                    |                |
|---------------------------------------------|----------------------------------------------------|----------------|
| CONTACT                                     | ADDRESS                                            | PHONE NUMBER   |
| CITY OF JONESBORO<br>ENGINEERING DEPARTMENT | 307 VINE STREET<br>JONESBORO, AR 72401             | 870-932-2438   |
| CITY OF JONESBORO<br>PLANNING AND ZONING    | 307 VINE STREET<br>JONESBORO, AR 72401             | 870-932-0406   |
| CITY, WATER & LIGHT                         | 400 EAST MONROE<br>JONESBORO, AR 72401             | 870-935-5581   |
| A&T                                         | 723 SOUTH CHURCH<br>STREET JONESBORO, AR<br>72401  | 1-800-464-7928 |
| BITTER COMMUNICATIONS                       | 2109 FOWLER AVENUE<br>JONESBORO, AR 72401          | 870-336-3400   |
| SUDDENLINK<br>COMMUNICATIONS                | 1520 SOUTH CARAWAY<br>ROAD JONESBORO, AR<br>72401  | 870-935-3615   |
| CENTER POINT ENERGY GAS                     | 3013 OLD FEED HOUSE<br>ROAD JONESBORO, AR<br>72401 | 870-972-6682   |



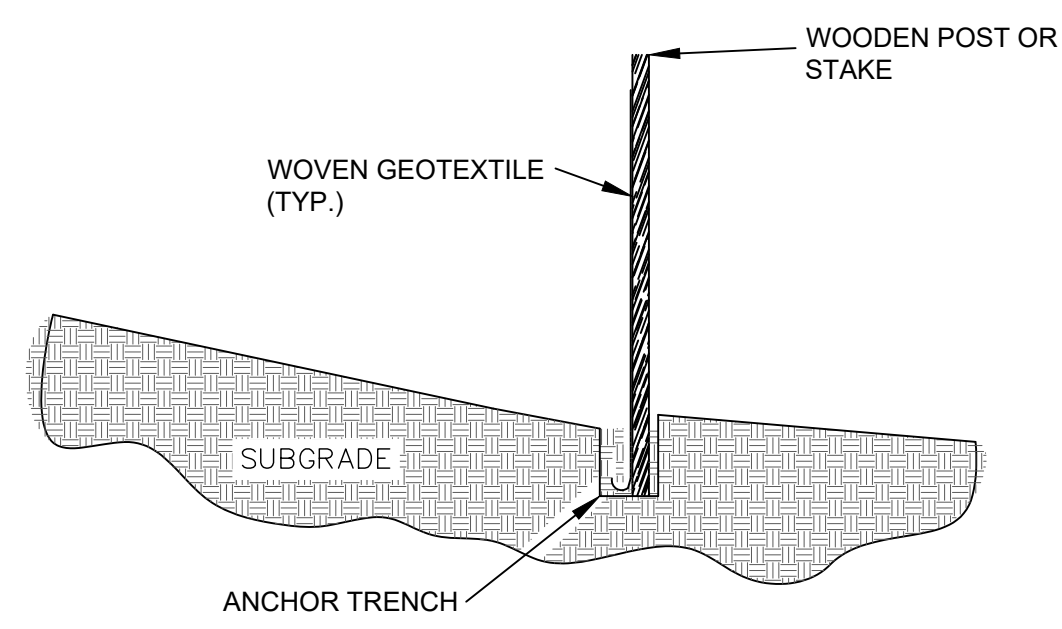
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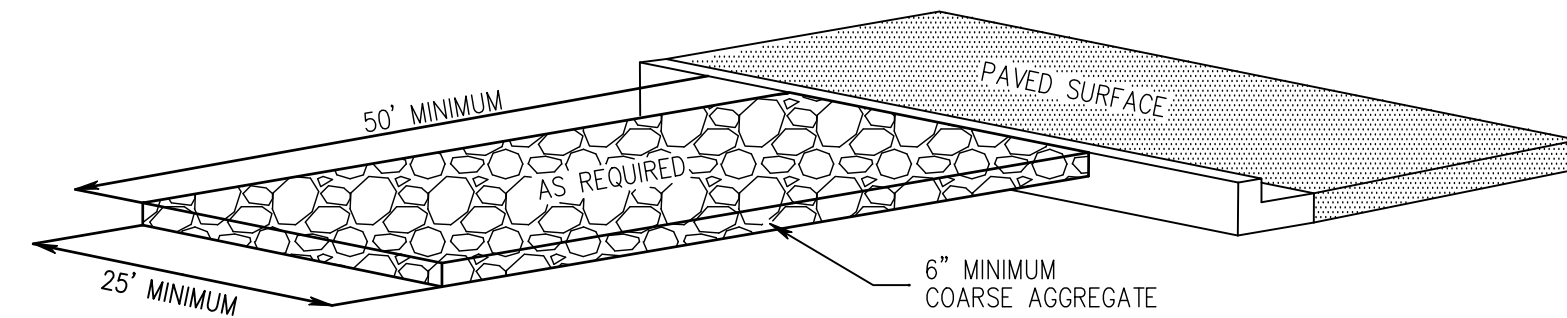


GEOTEXTILE FABRIC SHALL BE SPliced TOGETHER WITH A SEW SEAM ONLY AT A SUPPORT POST. TWO SECTIONS OF FENCE MAY BE OVERLAPPED INSTEAD. PAYMENT OF ADDITIONAL MATERIAL FOR OVERLAP WILL NOT BE MADE.

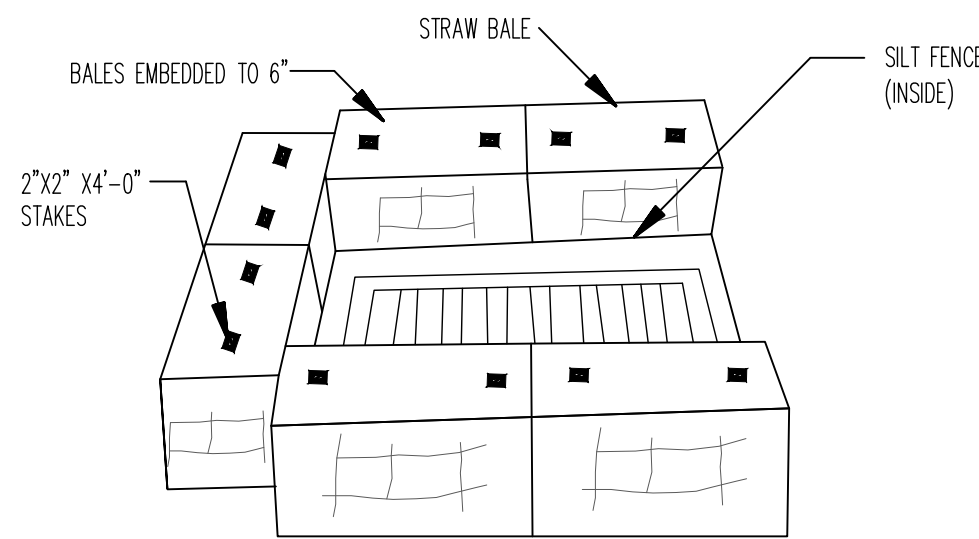


NOTES:  
1. GEOTEXTILE ANCHORED IN TRENCH A MINIMUM OF 15 CM (6 IN).  
2. TRENCH BACKFILLED WITH TAMPED NATURAL SOIL.  
3. DEPENDING UPON CONFIGURATION, ATTACH GEOTEXTILE TO STEEL POST WITH RE WIRES OR WOOD POSTS WITH STAPLES.

**SILT FENCE DETAIL**  
N.T.S.

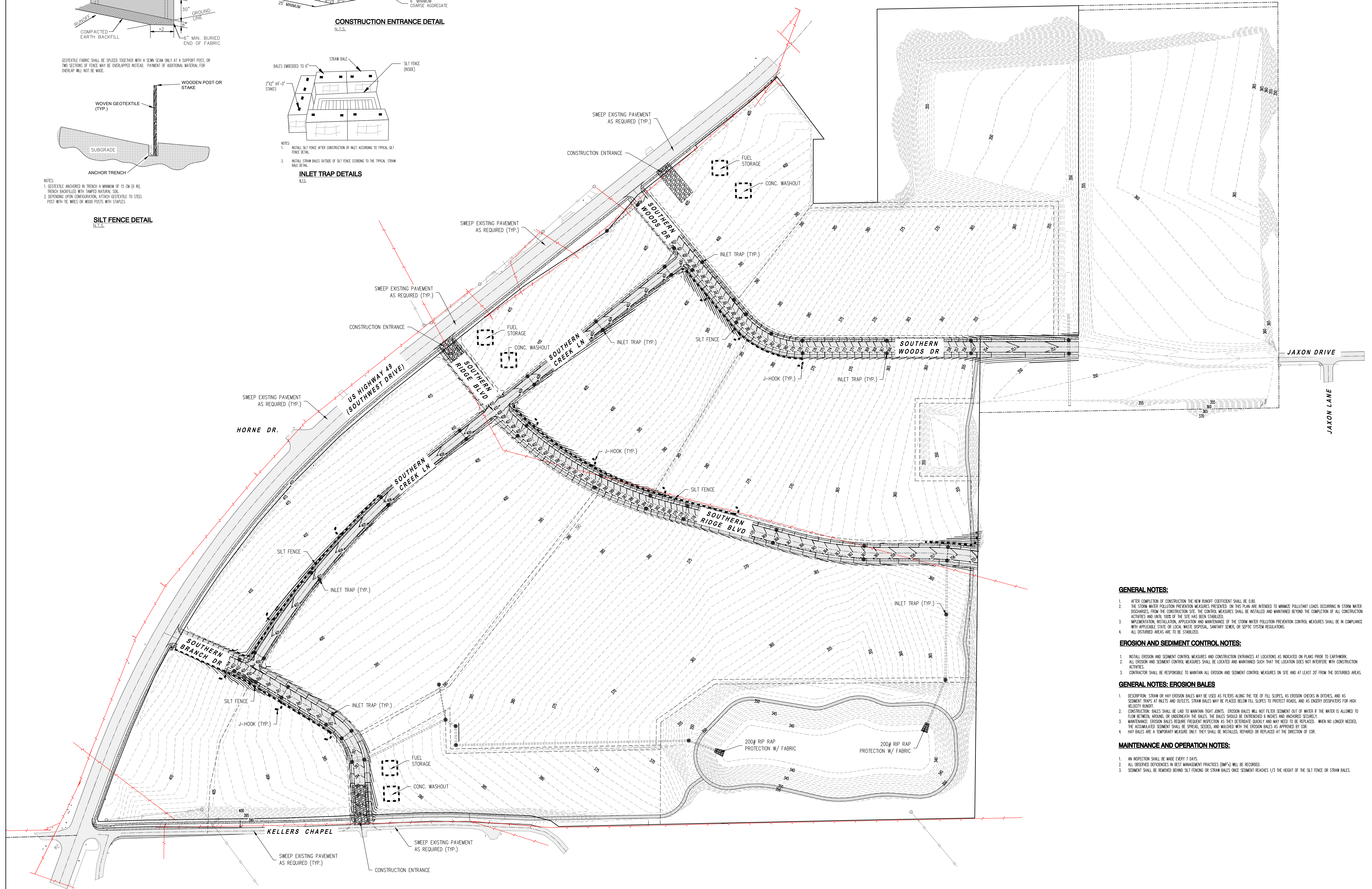


**CONSTRUCTION ENTRANCE DETAIL**  
N.T.S.



NOTES:  
1. INSTALL SILT FENCE AFTER CONSTRUCTION OF INLET ACCORDING TO TYPICAL SILT FENCE DETAIL.  
2. INSTALL STRAW BALES OUTSIDE OF SILT FENCE ACCORDING TO THE TYPICAL STRAW BALE DETAIL.

**INLET TRAP DETAILS**  
N.T.S.



**GENERAL NOTES:**

- AFTER COMPLETION OF CONSTRUCTION THE NEW RUNOFF COEFFICIENT SHALL BE 0.80.
- THE STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THIS PLAN ARE INTENDED TO MINIMIZE POLLUTANT LOADS OCCURRING IN STORM WATER DISCHARGES FROM THE CONSTRUCTION SITE. THE CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED BEYOND THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND UNTIL 100% OF THE SITE HAS BEEN STABILIZED.
- IMPLEMENTATION, INSTALLATION, APPLICATION AND MAINTENANCE OF THE STORM WATER POLLUTION PREVENTION CONTROL MEASURES SHALL BE IN COMPLIANCE WITH APPLICABLE STATE OR LOCAL WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC SYSTEM REGULATIONS.
- ALL DISTURBED AREAS ARE TO BE STABILIZED.

**EROSION AND SEDIMENT CONTROL NOTES:**

- INSTALL EROSION AND SEDIMENT CONTROL MEASURES AND CONSTRUCTION ENTRANCES AT LOCATIONS AS INDICATED ON PLANS PRIOR TO EARTHWORK.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE LOCATED AND MAINTAINED SUCH THAT THE LOCATION DOES NOT INTERFERE WITH CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES ON SITE AND AT LEAST 20' FROM THE DISTURBED AREAS.

**GENERAL NOTES: EROSION BALES**

- DESCRIPTION: STRAW OR HAY EROSION BALES MAY BE USED AS FILTERS ALONG THE TOE OF FULL SLOPES, AS EROSION CHECKS IN DITCHES, AND AS SEDIMENT TRAPS AT INLETS AND OUTLETS. STRAW BALES MAY BE PLACED BELOW FULL SLOPES TO PROTECT ROADS, AND AS ENERGY DISSIPATORS FOR HIGH VELOCITY RUNOFF.
- CONSTRUCTION: BALES SHALL BE LAD TO MAINTAIN TIGHT JOINTS. EROSION BALES WILL NOT FILTER SEDIMENT OUT OF WATER IF THE WATER IS ALLOWED TO FLOW BETWEEN, AROUND, OR UNDERNEATH THE BALES. THE BALES SHOULD BE ENTRENCHED 6 INCHES AND ANCHORED SECURELY.
- MAINTENANCE: EROSION BALES REQUIRE FREQUENT INSPECTION AS THEY DEGRADE QUICKLY AND MAY NEED TO BE REPLACED. WHEN NO LONGER NEEDED, THE ACCUMULATED SEDIMENT SHALL BE SPREAD, SECTED, AND MULCHED WITH THE EROSION BALES AS APPROVED BY COR.
- HAY BALES ARE A TEMPORARY MEASURE ONLY. THEY SHALL BE INSTALLED, REPAIRED OR REPLACED AT THE DIRECTION OF COR.

**MAINTENANCE AND OPERATION NOTES:**

- AN INSPECTION SHALL BE MADE EVERY 7 DAYS.
- ALL OBSERVED DEFICIENCIES IN BEST MANAGEMENT PRACTICES (BMPs) WILL BE RECORDED.
- SEDIMENT SHALL BE REMOVED BEHIND SILT FENCING OR STRAW BALES ONCE SEDIMENT REACHES 1/3 THE HEIGHT OF THE SILT FENCE OR STRAW BALES.



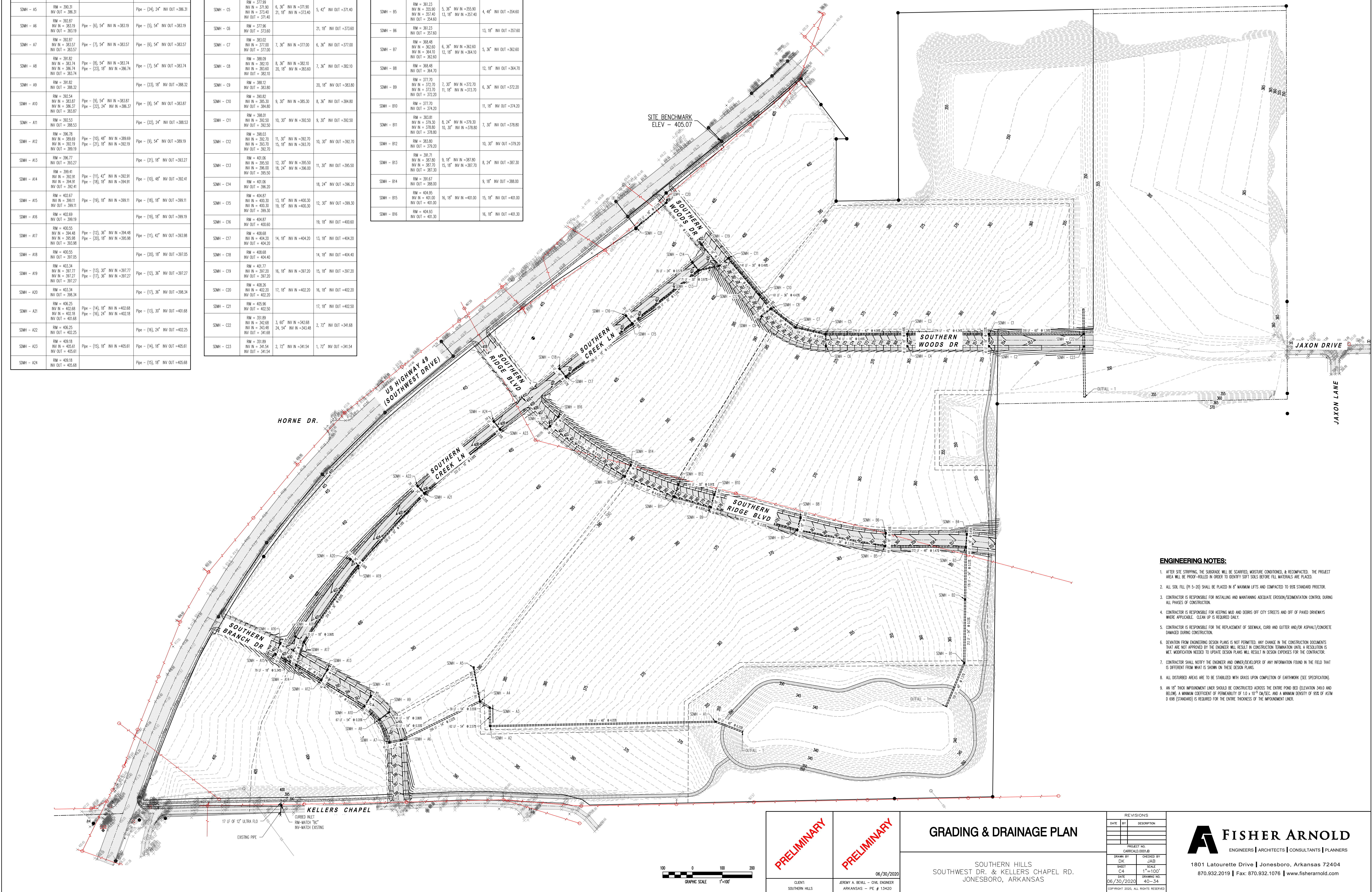
|                           |                                                           |                                                                             |                                                                                                                                                     |             |
|---------------------------|-----------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| <b>PRELIMINARY</b>        | <b>PRELIMINARY</b>                                        | <b>EROSION CONTROL PLAN</b>                                                 | REVISIONS                                                                                                                                           |             |
|                           |                                                           |                                                                             | DATE                                                                                                                                                | DESCRIPTION |
| CLIENT:<br>SOUTHERN HILLS | JEREMY A. BEALL - CIVIL ENGINEER<br>ARKANSAS - PE # 13420 | SOUTHERN HILLS<br>SOUTHWEST DR. & KELLERS CHAPEL RD.<br>JONESBORO, ARKANSAS | PROJECT NO.<br>C3001001-01                                                                                                                          |             |
|                           |                                                           |                                                                             | DRAWN BY: DK<br>CHECKED BY: JAB<br>SCALE: 1"=100'<br>DATE: 06/30/2020<br>SHEET: 40-34<br>DRAWING NO.: 40-34<br>COPYRIGHT 2020. ALL RIGHTS RESERVED. |             |

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| STRUCTURE TABLE |                                                                       |                                                                      |                                   |
|-----------------|-----------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------|
| STRUCTURE NAME: | DETAILS:                                                              | PIPES IN:                                                            | PIPES OUT:                        |
| Outfall - 1     | RM = 343.21<br>INV IN = 338.00                                        | Pipe - (1), 48" INV IN = 338.00                                      |                                   |
| SDMH - A1       | RM = 351.51<br>INV IN = 344.01<br>INV OUT = 344.01                    | Pipe - (2), 48" INV IN = 344.01                                      | Pipe - (1), 48" INV OUT = 344.01  |
| SDMH - A2       | RM = 361.87<br>INV IN = 374.67<br>INV OUT = 374.67                    | Pipe - (3), 54" INV IN = 374.67                                      | Pipe - (2), 48" INV OUT = 374.67  |
| SDMH - A3       | RM = 384.16<br>INV IN = 376.26<br>INV OUT = 376.26                    | Pipe - (4), 54" INV IN = 376.26                                      | Pipe - (3), 54" INV OUT = 376.26  |
| SDMH - A4       | RM = 385.32<br>INV IN = 377.25<br>INV OUT = 377.65                    | Pipe - (5), 54" INV IN = 377.25<br>Pipe - (24), 24" INV IN = 385.32  | Pipe - (4), 54" INV OUT = 377.65  |
| SDMH - A5       | RM = 390.31<br>INV IN = 386.51                                        |                                                                      | Pipe - (24), 24" INV OUT = 386.51 |
| SDMH - A6       | RM = 392.87<br>INV IN = 383.19<br>INV OUT = 383.19                    | Pipe - (6), 54" INV IN = 383.19                                      | Pipe - (5), 54" INV OUT = 383.19  |
| SDMH - A7       | RM = 392.87<br>INV IN = 383.57<br>INV OUT = 383.57                    | Pipe - (7), 54" INV IN = 383.57                                      | Pipe - (6), 54" INV OUT = 383.57  |
| SDMH - A8       | RM = 391.82<br>INV IN = 383.74<br>INV OUT = 383.74                    | Pipe - (8), 54" INV IN = 383.74<br>Pipe - (23), 18" INV IN = 386.74  | Pipe - (7), 54" INV OUT = 383.74  |
| SDMH - A9       | RM = 391.82<br>INV OUT = 388.32                                       |                                                                      | Pipe - (23), 18" INV OUT = 388.32 |
| SDMH - A10      | RM = 392.54<br>INV IN = 383.87<br>INV IN = 386.37<br>INV OUT = 383.87 | Pipe - (9), 54" INV IN = 383.87<br>Pipe - (23), 24" INV IN = 386.37  | Pipe - (8), 54" INV OUT = 383.87  |
| SDMH - A11      | RM = 392.53<br>INV OUT = 388.53                                       |                                                                      | Pipe - (23), 24" INV OUT = 388.53 |
| SDMH - A12      | RM = 396.76<br>INV IN = 389.69<br>INV IN = 392.19<br>INV OUT = 389.19 | Pipe - (10), 48" INV IN = 389.69<br>Pipe - (21), 18" INV IN = 392.19 | Pipe - (9), 54" INV OUT = 389.19  |
| SDMH - A13      | RM = 396.77<br>INV OUT = 393.27                                       |                                                                      | Pipe - (21), 18" INV OUT = 393.27 |
| SDMH - A14      | RM = 396.41<br>INV IN = 392.91<br>INV IN = 394.91<br>INV OUT = 392.41 | Pipe - (11), 42" INV IN = 392.91<br>Pipe - (18), 18" INV IN = 394.91 | Pipe - (10), 48" INV OUT = 392.41 |
| SDMH - A15      | RM = 402.67<br>INV IN = 399.11<br>INV OUT = 399.11                    | Pipe - (19), 18" INV IN = 399.11                                     | Pipe - (18), 18" INV OUT = 399.11 |
| SDMH - A16      | RM = 402.69<br>INV OUT = 399.19                                       |                                                                      | Pipe - (18), 18" INV OUT = 399.19 |
| SDMH - A17      | RM = 400.55<br>INV IN = 394.48<br>INV IN = 395.98<br>INV OUT = 393.98 | Pipe - (12), 36" INV IN = 394.48<br>Pipe - (20), 18" INV IN = 395.98 | Pipe - (11), 42" INV OUT = 393.98 |
| SDMH - A18      | RM = 400.55<br>INV OUT = 397.05                                       |                                                                      | Pipe - (20), 18" INV OUT = 397.05 |
| SDMH - A19      | RM = 403.34<br>INV IN = 397.77<br>INV IN = 397.27<br>INV OUT = 397.27 | Pipe - (13), 30" INV IN = 397.77<br>Pipe - (17), 36" INV IN = 397.27 | Pipe - (12), 36" INV OUT = 397.27 |
| SDMH - A20      | RM = 403.34<br>INV OUT = 398.34                                       |                                                                      | Pipe - (17), 36" INV OUT = 398.34 |
| SDMH - A21      | RM = 406.25<br>INV IN = 402.68<br>INV IN = 402.18<br>INV OUT = 401.68 | Pipe - (14), 18" INV IN = 402.68<br>Pipe - (16), 24" INV IN = 402.18 | Pipe - (13), 30" INV OUT = 401.68 |
| SDMH - A22      | RM = 406.25<br>INV OUT = 402.25                                       |                                                                      | Pipe - (16), 24" INV OUT = 402.25 |
| SDMH - A23      | RM = 409.18<br>INV IN = 405.61<br>INV OUT = 405.61                    | Pipe - (15), 18" INV IN = 405.61                                     | Pipe - (14), 18" INV OUT = 405.61 |
| SDMH - A24      | RM = 409.18<br>INV OUT = 405.68                                       |                                                                      | Pipe - (15), 18" INV OUT = 405.68 |

| STRUCTURE TABLE |                                                                       |                                                    |                          |
|-----------------|-----------------------------------------------------------------------|----------------------------------------------------|--------------------------|
| STRUCTURE NAME: | DETAILS:                                                              | PIPES IN:                                          | PIPES OUT:               |
| Outfall - 1     | RM = 348.18<br>INV IN = 341.08                                        | 1, 72" INV IN = 341.08                             |                          |
| SDMH - C1       | RM = 355.56<br>INV IN = 346.30<br>INV IN = 350.30<br>INV OUT = 346.80 | 4, 42" INV IN = 346.30<br>23, 18" INV IN = 350.30  | 3, 60" INV OUT = 346.80  |
| SDMH - C2       | RM = 355.54<br>INV OUT = 350.80                                       |                                                    | 23, 18" INV OUT = 350.80 |
| SDMH - C3       | RM = 366.69<br>INV IN = 362.20<br>INV IN = 362.20<br>INV OUT = 362.20 | 5, 42" INV IN = 362.20<br>22, 18" INV IN = 362.20  | 4, 42" INV OUT = 362.20  |
| SDMH - C4       | RM = 366.68<br>INV OUT = 362.40                                       |                                                    | 22, 18" INV OUT = 362.40 |
| SDMH - C5       | RM = 377.99<br>INV IN = 371.90<br>INV IN = 373.40<br>INV OUT = 371.40 | 6, 36" INV IN = 371.90<br>21, 18" INV IN = 373.40  | 5, 42" INV OUT = 371.40  |
| SDMH - C6       | RM = 377.96<br>INV OUT = 373.60                                       |                                                    | 21, 18" INV OUT = 373.60 |
| SDMH - C7       | RM = 383.02<br>INV IN = 377.00<br>INV OUT = 377.00                    | 7, 36" INV IN = 377.00                             | 6, 36" INV OUT = 377.00  |
| SDMH - C8       | RM = 382.10<br>INV IN = 383.60<br>INV OUT = 382.10                    | 8, 36" INV IN = 382.10<br>20, 18" INV IN = 383.60  | 7, 36" INV OUT = 382.10  |
| SDMH - C9       | RM = 382.10<br>INV OUT = 383.80                                       |                                                    | 20, 18" INV OUT = 383.80 |
| SDMH - C10      | RM = 390.82<br>INV IN = 385.30<br>INV OUT = 384.80                    | 9, 30" INV IN = 385.30                             | 8, 36" INV OUT = 384.80  |
| SDMH - C11      | RM = 390.81<br>INV IN = 392.50<br>INV OUT = 392.50                    | 10, 30" INV IN = 392.50                            | 9, 30" INV OUT = 392.50  |
| SDMH - C12      | RM = 398.03<br>INV IN = 392.70<br>INV IN = 393.70<br>INV OUT = 392.70 | 11, 30" INV IN = 392.70<br>15, 18" INV IN = 393.70 | 10, 30" INV OUT = 392.70 |
| SDMH - C13      | RM = 401.00<br>INV IN = 395.50<br>INV IN = 396.00<br>INV OUT = 395.50 | 12, 30" INV IN = 395.50<br>16, 24" INV IN = 396.00 | 11, 30" INV OUT = 395.50 |
| SDMH - C14      | RM = 401.00<br>INV OUT = 396.20                                       |                                                    | 16, 24" INV OUT = 396.20 |
| SDMH - C15      | RM = 406.07<br>INV IN = 400.30<br>INV IN = 400.30<br>INV OUT = 399.30 | 13, 18" INV IN = 400.30<br>19, 18" INV IN = 400.30 | 12, 30" INV OUT = 399.30 |
| SDMH - C16      | RM = 406.07<br>INV OUT = 400.60                                       |                                                    | 19, 18" INV OUT = 400.60 |
| SDMH - C17      | RM = 406.68<br>INV IN = 404.20<br>INV OUT = 404.20                    | 14, 18" INV IN = 404.20                            | 13, 18" INV OUT = 404.20 |
| SDMH - C18      | RM = 406.68<br>INV OUT = 404.40                                       |                                                    | 14, 18" INV OUT = 404.40 |
| SDMH - C19      | RM = 403.77<br>INV IN = 397.20<br>INV OUT = 397.20                    | 16, 18" INV IN = 397.20                            | 15, 18" INV OUT = 397.20 |
| SDMH - C20      | RM = 408.26<br>INV IN = 402.20<br>INV OUT = 402.20                    | 17, 18" INV IN = 402.20                            | 16, 18" INV OUT = 402.20 |
| SDMH - C21      | RM = 405.96<br>INV OUT = 402.50                                       |                                                    | 17, 18" INV OUT = 402.50 |
| SDMH - C22      | RM = 351.89<br>INV IN = 342.68<br>INV IN = 343.48<br>INV OUT = 341.68 | 3, 40" INV IN = 342.68<br>24, 54" INV IN = 343.48  | 2, 72" INV OUT = 341.68  |
| SDMH - C23      | RM = 351.89<br>INV IN = 341.54<br>INV OUT = 341.54                    | 2, 72" INV IN = 341.54                             | 1, 72" INV OUT = 341.54  |

| STRUCTURE TABLE |                                                                       |                                                   |                          |
|-----------------|-----------------------------------------------------------------------|---------------------------------------------------|--------------------------|
| STRUCTURE NAME: | DETAILS:                                                              | PIPES IN:                                         | PIPES OUT:               |
| Outfall - 1     | RM = 340.15<br>INV IN = 337.50                                        | 1, 48" INV IN = 337.50                            |                          |
| SDMH - B1       | RM = 367.25<br>INV IN = 349.20<br>INV OUT = 349.20                    | 2, 54" INV IN = 349.20                            | 1, 48" INV OUT = 349.20  |
| SDMH - B2       | RM = 365.67<br>INV IN = 349.70<br>INV OUT = 349.70                    | 3, 54" INV IN = 349.70                            | 2, 54" INV OUT = 349.70  |
| SDMH - B3       | RM = 356.61<br>INV IN = 350.60<br>INV IN = 352.90<br>INV OUT = 350.10 | 4, 48" INV IN = 350.60<br>14, 18" INV IN = 352.90 | 3, 54" INV OUT = 350.10  |
| SDMH - B4       | RM = 356.61<br>INV OUT = 353.10                                       |                                                   | 14, 18" INV OUT = 353.10 |
| SDMH - B5       | RM = 361.23<br>INV IN = 355.90<br>INV IN = 357.40<br>INV OUT = 354.60 | 5, 36" INV IN = 355.90<br>13, 18" INV IN = 357.40 | 4, 48" INV OUT = 354.60  |
| SDMH - B6       | RM = 361.23<br>INV OUT = 352.60                                       |                                                   | 13, 18" INV OUT = 352.60 |
| SDMH - B7       | RM = 368.46<br>INV IN = 362.60<br>INV IN = 364.10<br>INV OUT = 362.60 | 6, 36" INV IN = 362.60<br>12, 18" INV IN = 364.10 | 5, 36" INV OUT = 362.60  |
| SDMH - B8       | RM = 368.46<br>INV OUT = 364.70                                       |                                                   | 12, 18" INV OUT = 364.70 |
| SDMH - B9       | RM = 377.70<br>INV IN = 372.70<br>INV IN = 373.70<br>INV OUT = 372.20 | 7, 30" INV IN = 372.70<br>11, 18" INV IN = 373.70 | 6, 36" INV OUT = 372.20  |
| SDMH - B10      | RM = 377.70<br>INV OUT = 374.20                                       |                                                   | 11, 18" INV OUT = 374.20 |
| SDMH - B11      | RM = 383.80<br>INV IN = 379.30<br>INV IN = 378.80<br>INV OUT = 378.80 | 8, 24" INV IN = 379.30<br>10, 30" INV IN = 378.80 | 7, 30" INV OUT = 378.80  |
| SDMH - B12      | RM = 383.80<br>INV OUT = 379.20                                       |                                                   | 10, 30" INV OUT = 379.20 |
| SDMH - B13      | RM = 391.71<br>INV IN = 387.80<br>INV IN = 387.70<br>INV OUT = 387.30 | 9, 18" INV IN = 387.80<br>15, 18" INV IN = 387.70 | 8, 24" INV OUT = 387.30  |
| SDMH - B14      | RM = 391.67<br>INV OUT = 388.00                                       |                                                   | 9, 18" INV OUT = 388.00  |
| SDMH - B15      | RM = 404.95<br>INV IN = 401.00<br>INV OUT = 401.00                    | 16, 18" INV IN = 401.00                           | 15, 18" INV OUT = 401.00 |
| SDMH - B16      | RM = 404.95<br>INV OUT = 401.30                                       |                                                   | 16, 18" INV OUT = 401.30 |



- ENGINEERING NOTES:**
- AFTER SITE STRIPPING, THE SURFACE WILL BE SCARIFIED, MOISTURE CONDITIONED, & RECOMPACTED. THE PROJECT AREA WILL BE PROOF-ROLLED IN ORDER TO IDENTIFY SOFT SPOTS BEFORE FILL MATERIALS ARE PLACED.
  - ALL SOIL FILL (P 1.5-20) SHALL BE PLACED IN 6" MAXIMUM LIFTS AND COMPACTED TO 95% STANDARD PROCTOR.
  - CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING ADEQUATE EROSION/SEDIMENTATION CONTROL DURING ALL PHASES OF CONSTRUCTION.
  - CONTRACTOR IS RESPONSIBLE FOR KEEPING MUD AND DEBRIS OFF CITY STREETS AND OFF OF PAVED DRIVEWAYS WHERE APPLICABLE. CLEAN UP IS REQUIRED DAILY.
  - CONTRACTOR IS RESPONSIBLE FOR THE REPLACEMENT OF SIDEWALK, CURB AND GUTTER AND/OR ASPHALT/CONCRETE DAMAGED DURING CONSTRUCTION.
  - DEVIATION FROM ENGINEERING DESIGN PLANS IS NOT PERMITTED. ANY CHANGE IN THE CONSTRUCTION DOCUMENTS THAT ARE NOT APPROVED BY THE ENGINEER WILL RESULT IN CONSTRUCTION TERMINATION UNTIL A RESOLUTION IS MET. MODIFICATION NEEDED TO UPDATE DESIGN PLANS WILL RESULT IN DESIGN EXPENSES FOR THE CONTRACTOR.
  - CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER/DEVELOPER OF ANY INFORMATION FOUND IN THE FIELD THAT IS DIFFERENT FROM WHAT IS SHOWN ON THESE DESIGN PLANS.
  - ALL DISTURBED AREAS ARE TO BE STABILIZED WITH GRASS UPON COMPLETION OF EARTHWORK (SEE SPECIFICATION).
  - AN 18" THICK IMPROVEMENT LINER SHOULD BE CONSTRUCTED ACROSS THE ENTIRE POND BED (ELEVATION 380.0 AND BELOW). A MINIMUM COEFFICIENT OF PERMEABILITY OF  $1.0 \times 10^{-4}$  CM/SEC. AND A MINIMUM DENSITY OF 95% OF ASTM D 690 (STANDARD) IS REQUIRED FOR THE ENTIRE THICKNESS OF THE IMPROVEMENT LINER.

PRELIMINARY

PRELIMINARY

06/30/2020

CLIENT:

SOUTHERN HILLS

DESIGNED BY:

JKB

CHECKED BY:

C4

DATE:

06/30/2020

DRAWING NO.:

40-34

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REVISIONS

| DATE | BY | DESCRIPTION |
|------|----|-------------|
|      |    |             |
|      |    |             |
|      |    |             |

PROJECT NO.

CAPITAL 0001-B

SCALE:

1"=100'

GRADING & DRAINAGE PLAN

SOUTHERN HILLS

SOUTHWEST DR. & KELLERS CHAPEL RD.

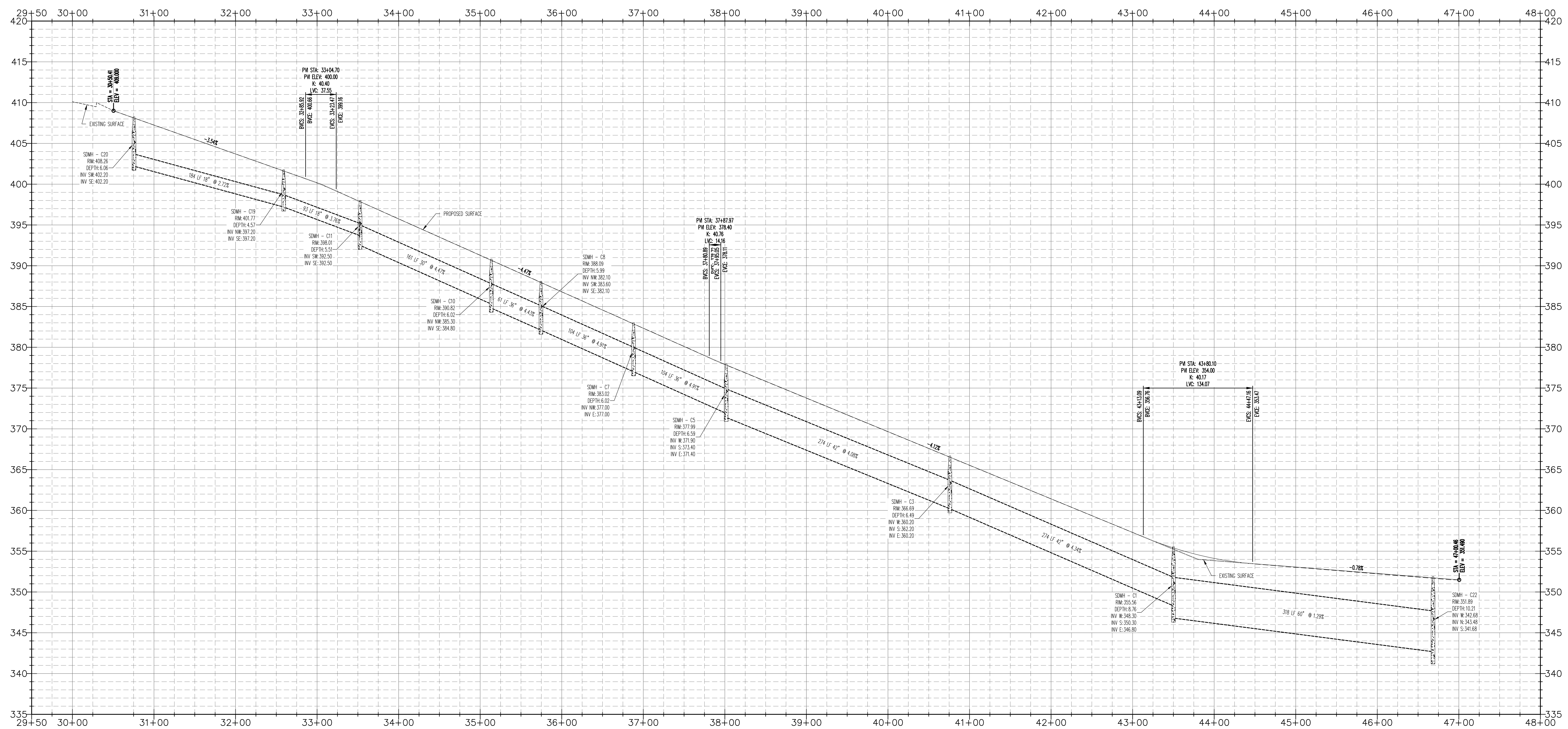
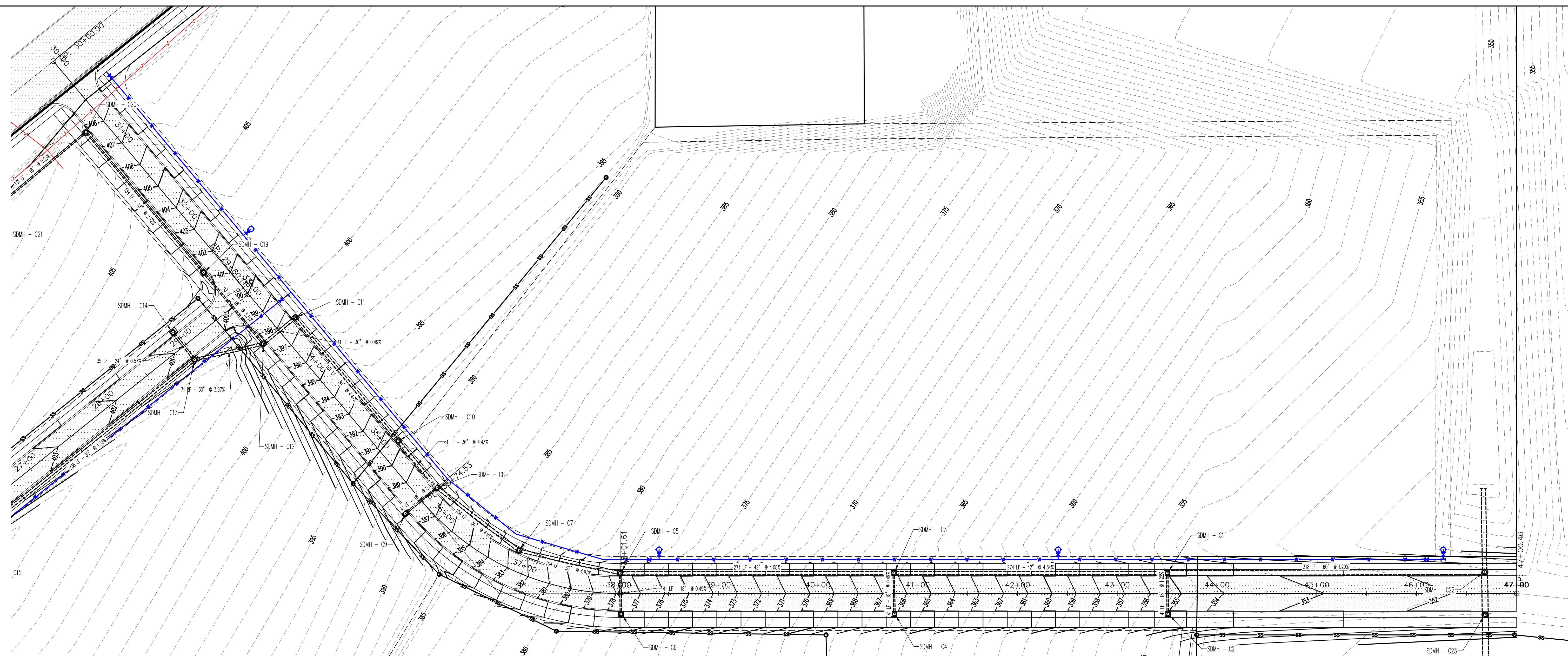
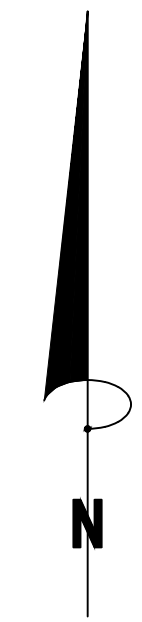
JONESBORO, ARKANSAS

FISHER ARNOLD

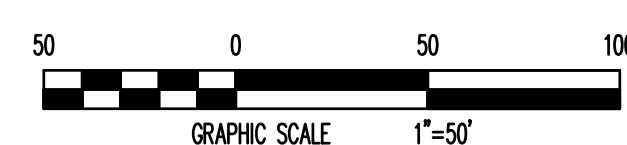
ENGINEERS | ARCHITECTS | CONSULTANTS | PLANNERS

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VERTICAL SCALE 1:10  
HORIZONTAL SCALE 1:50



**PRELIMINARY**

**PRELIMINARY**

06/30/2020

CLIENT:  
SOUTHERN HILLS

JEREMY A. BEALL - CIVIL ENGINEER  
ARKANSAS - PE # 13420

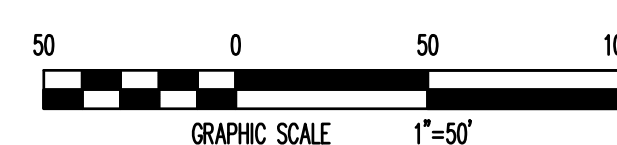
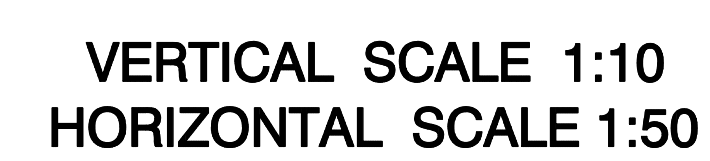
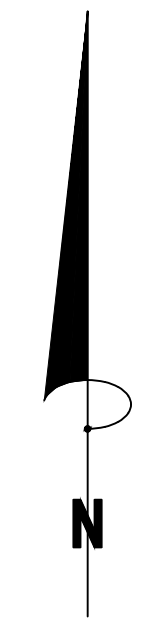
## STREET PLAN & PROFILE 74' ROW - NORTH

SOUTHERN HILLS  
SOUTHWEST DR. & KELLERS CHAPEL RD.  
JONESBORO, ARKANSAS

| REVISIONS                           |                    |
|-------------------------------------|--------------------|
| DATE                                | DESCRIPTION        |
|                                     |                    |
|                                     |                    |
|                                     |                    |
| PROJECT NO.<br>CIVIL-0001-00        |                    |
| DESIGNED BY<br>DK                   | JAB                |
| CHECKED BY<br>CS                    | CS                 |
| DATE<br>06/30/2020                  | DRAWN NO.<br>40-34 |
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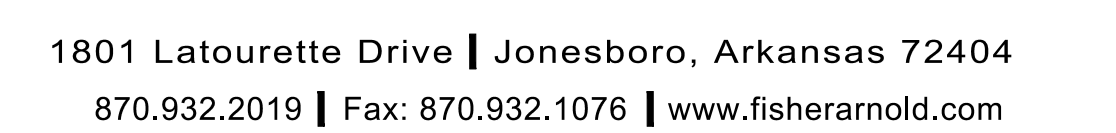


**PRELIMINARY**

06/30/2021  
— CIVIL ENGINEER  
PE # 13420

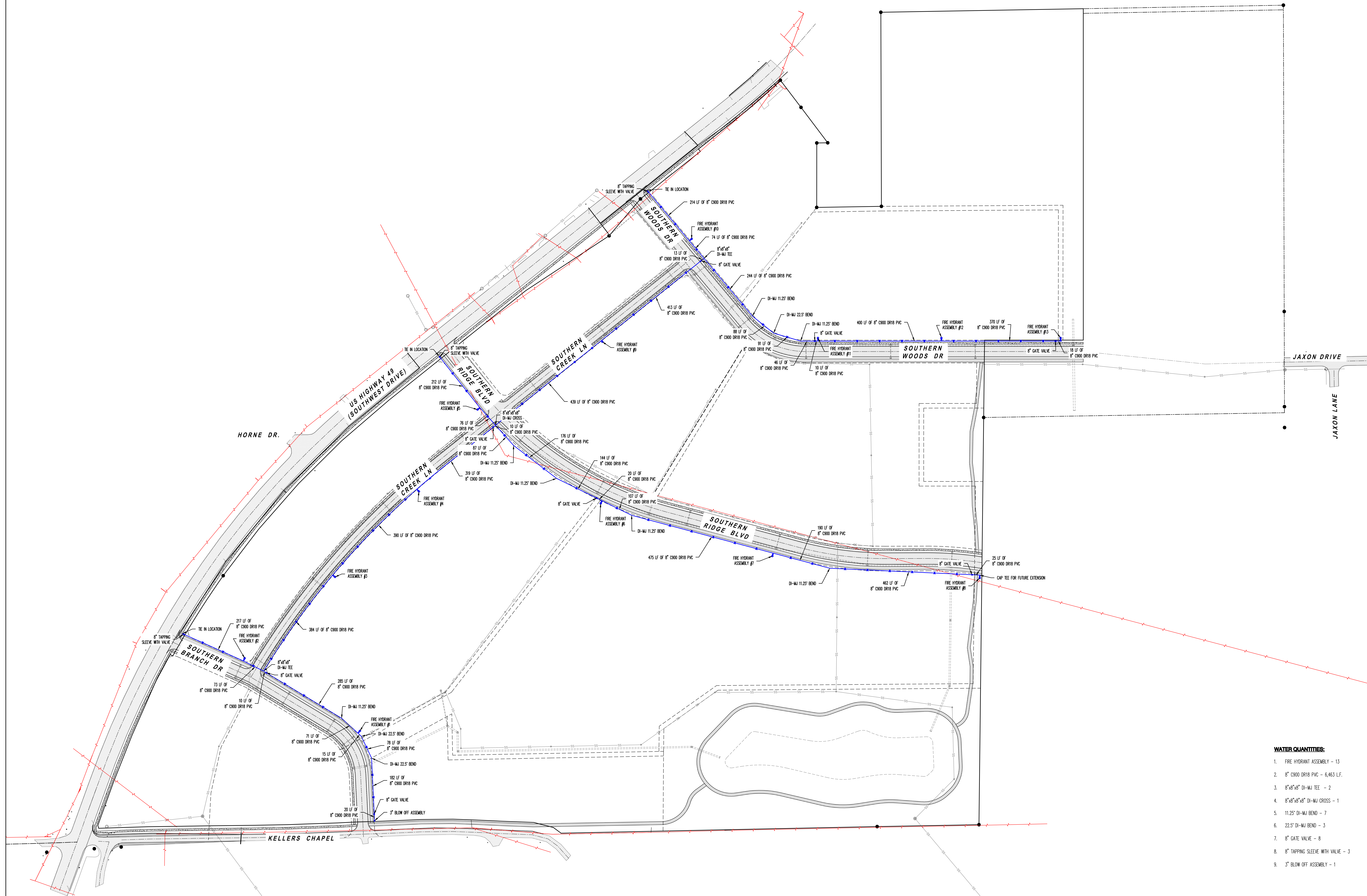
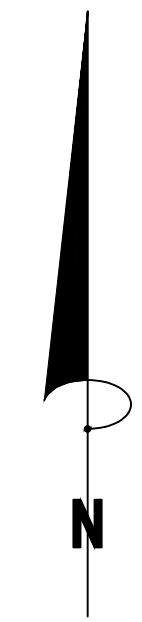
SOUTHERN HILLS  
SOUTHWEST DR. & KELLERS CHAPEL RD.  
JONESBORO, ARKANSAS

|                                     |                      |
|-------------------------------------|----------------------|
| PROJECT NO.<br>CARRCALD.0001JB      |                      |
| DRAWN BY<br>DK                      | CHECKED BY<br>JAB    |
| SHEET<br>C6                         | SCALE<br>1"=50'      |
| DATE<br>06/30/2020                  | DRAWING NO.<br>40-34 |
| COPYRIGHT 2010. ALL RIGHTS RESERVED |                      |









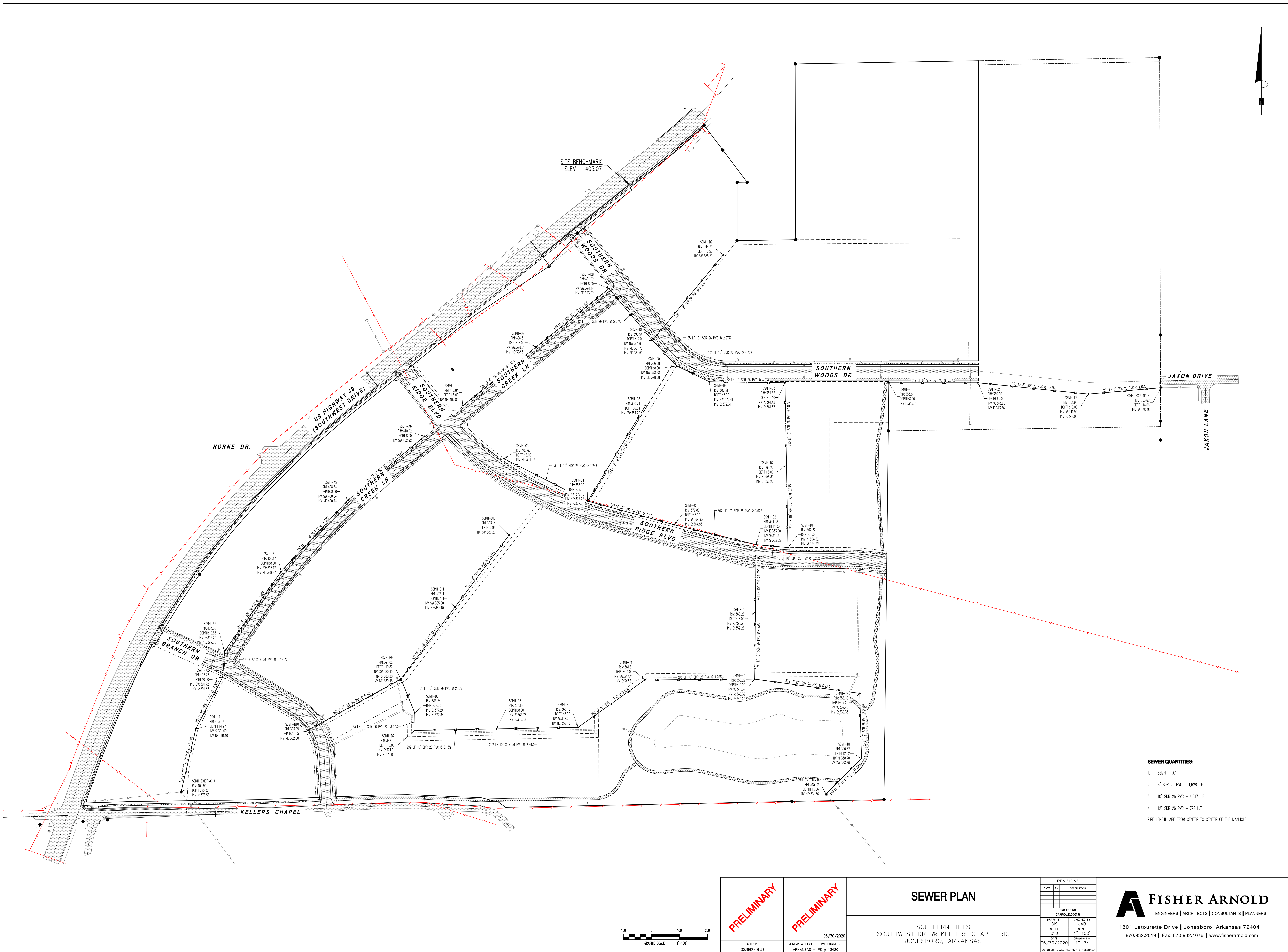
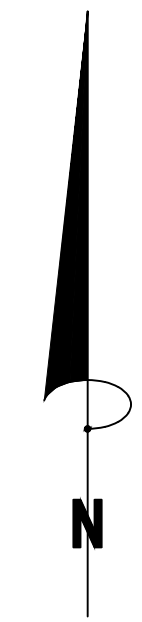
**WATER QUANTITIES:**

1. FIRE HYDRANT ASSEMBLY - 13
2. 8" C900 DR18 PVC - 6,463 LF.
3. 8"x8"x8" DI-MJ TEE - 2
4. 8"x8"x8"x8" DI-MJ CROSS - 1
5. 11.25" DI-MJ BEND - 7
6. 22.5" DI-MJ BEND - 3
7. 8" GATE VALVE - 8
8. 8" TAPPING SLEEVE WITH VALVE - 3
9. 3" BLOW OFF ASSEMBLY - 1



|                                     |                    |                           |           |             |
|-------------------------------------|--------------------|---------------------------|-----------|-------------|
| <b>PRELIMINARY</b>                  | <b>PRELIMINARY</b> | <b>WATER PLAN</b>         | REVISIONS |             |
|                                     |                    |                           | DATE      | DESCRIPTION |
| CLIENT: SOUTHERN HILLS              |                    | PROJECT NO. C91001.000-01 |           |             |
| DRAWN BY: JAB                       |                    | CHECKED BY: JAB           |           |             |
| DATE: 06/30/2020                    |                    | SCALE: 1"=100'            |           |             |
| SHEET: C9                           |                    | DRAWING NO. 40-34         |           |             |
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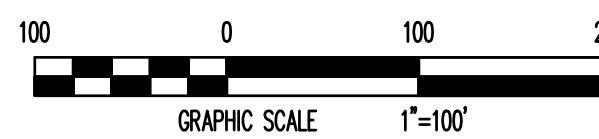
**FISHER ARNOLD**  
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**SEWER QUANTITIES:**

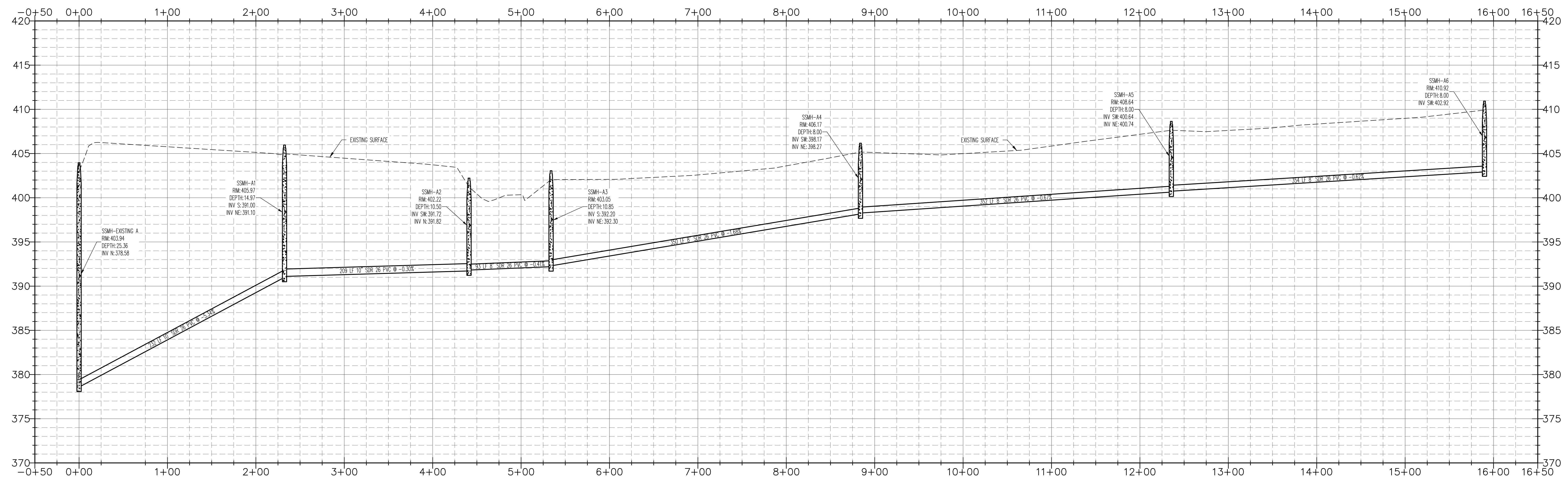
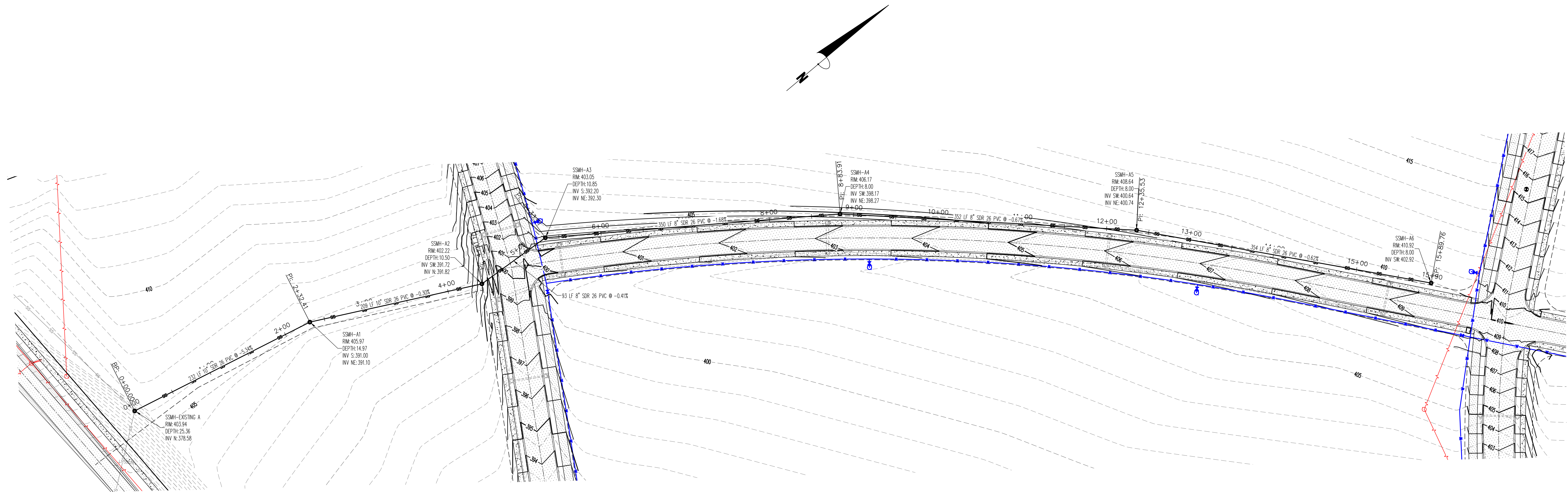
|    |                            |
|----|----------------------------|
| 1. | SSMH - 37                  |
| 2. | 8" SDR 26 PVC - 4,628 LF.  |
| 3. | 10" SDR 26 PVC - 4,817 LF. |
| 4. | 12" SDR 26 PVC - 792 LF.   |

PPE LENGTH ARE FROM CENTER TO CENTER OF THE MANHOLE



|                                            |                    |                                     |           |             |
|--------------------------------------------|--------------------|-------------------------------------|-----------|-------------|
| <b>PRELIMINARY</b>                         | <b>PRELIMINARY</b> | <b>SEWER PLAN</b>                   | REVISIONS |             |
|                                            |                    |                                     | DATE      | DESCRIPTION |
| CLIENT: SOUTHERN HILLS                     |                    | PROJECT NO: C01001-001-00           |           |             |
| ARCHITECT: JERRY A. BEALL - CIVIL ENGINEER |                    | DRAWN BY: DK                        |           |             |
| 06/30/2020                                 |                    | CHECKED BY: JAB                     |           |             |
|                                            |                    | SCALE: 1"=100'                      |           |             |
|                                            |                    | SHEET: C10                          |           |             |
|                                            |                    | DATE: 06/30/2020                    |           |             |
|                                            |                    | DRAWING NO: 40-34                   |           |             |
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VERTICAL SCALE 1:10  
HORIZONTAL SCALE 1:50



**PRELIMINARY**

CLIENT:  
SOUTHERN HILLS

**PRELIMINARY**

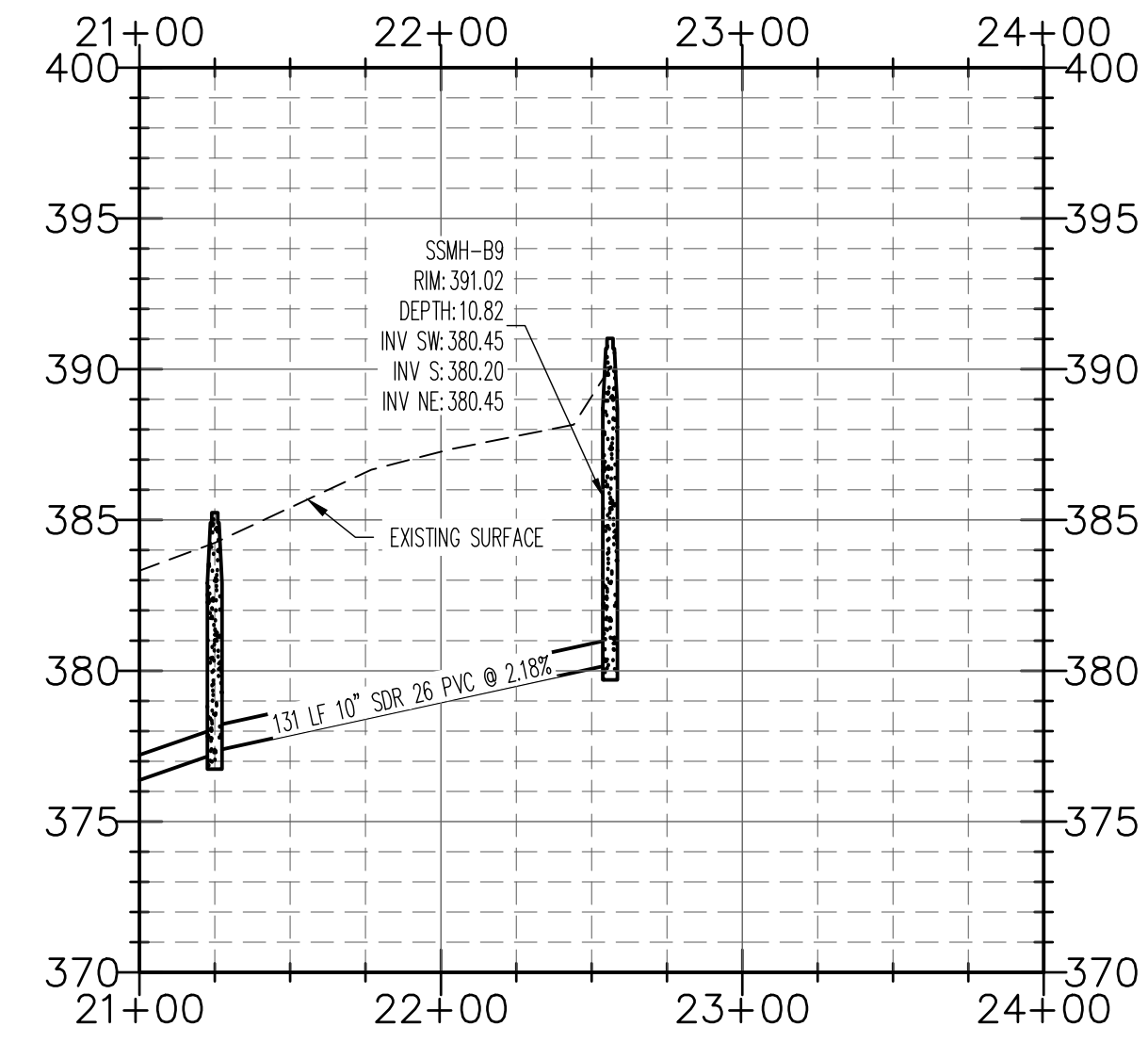
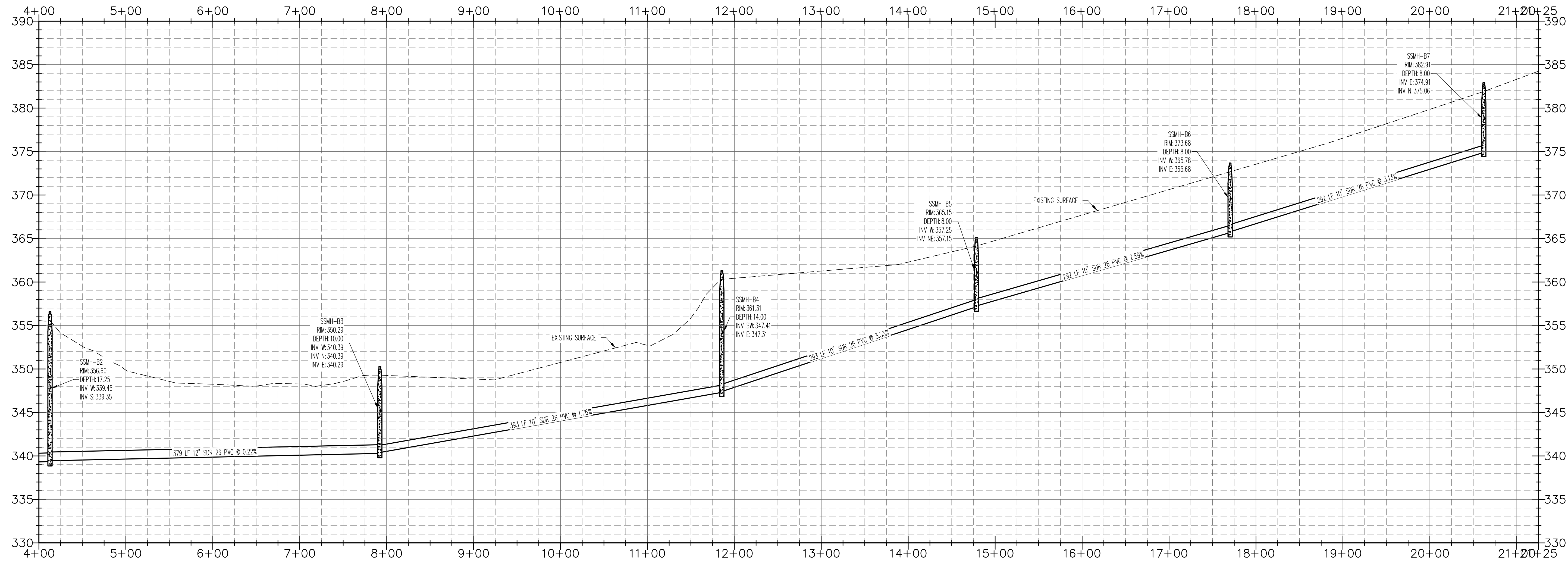
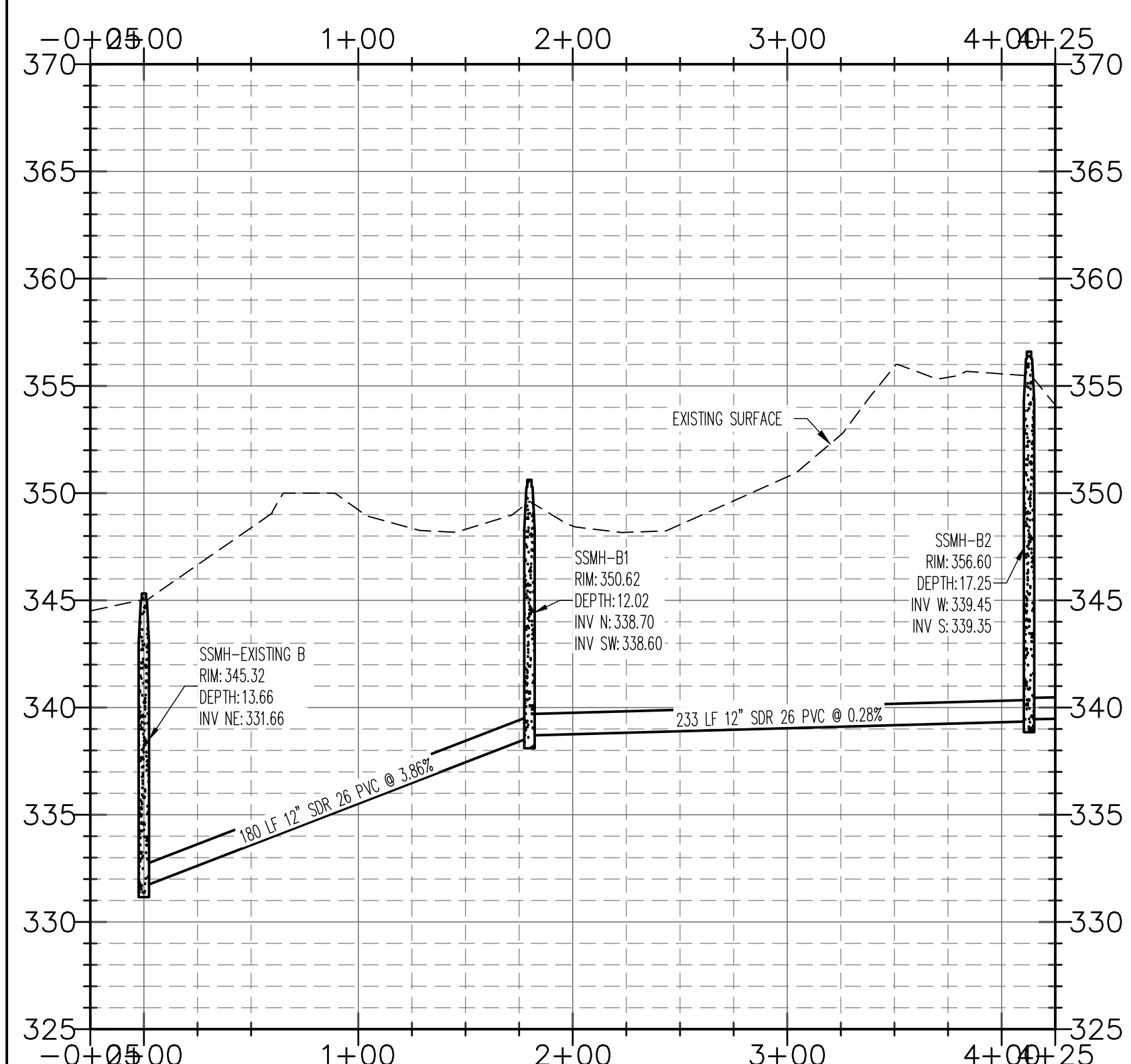
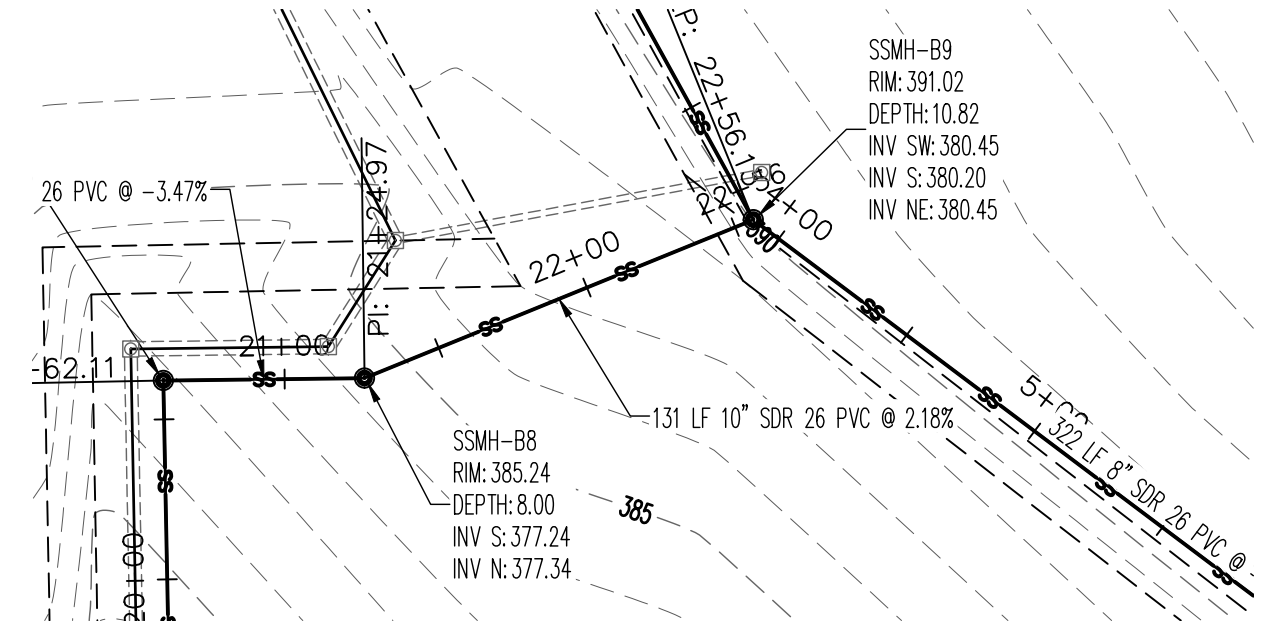
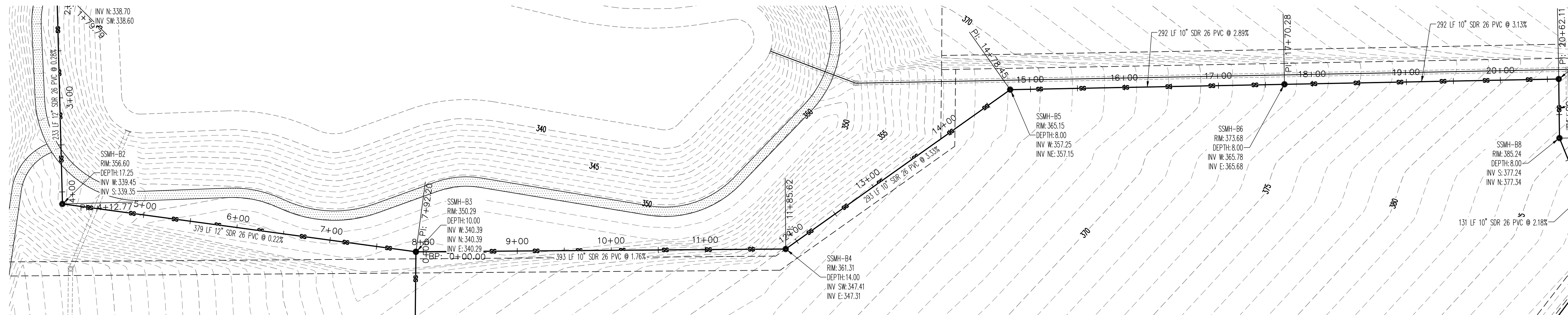
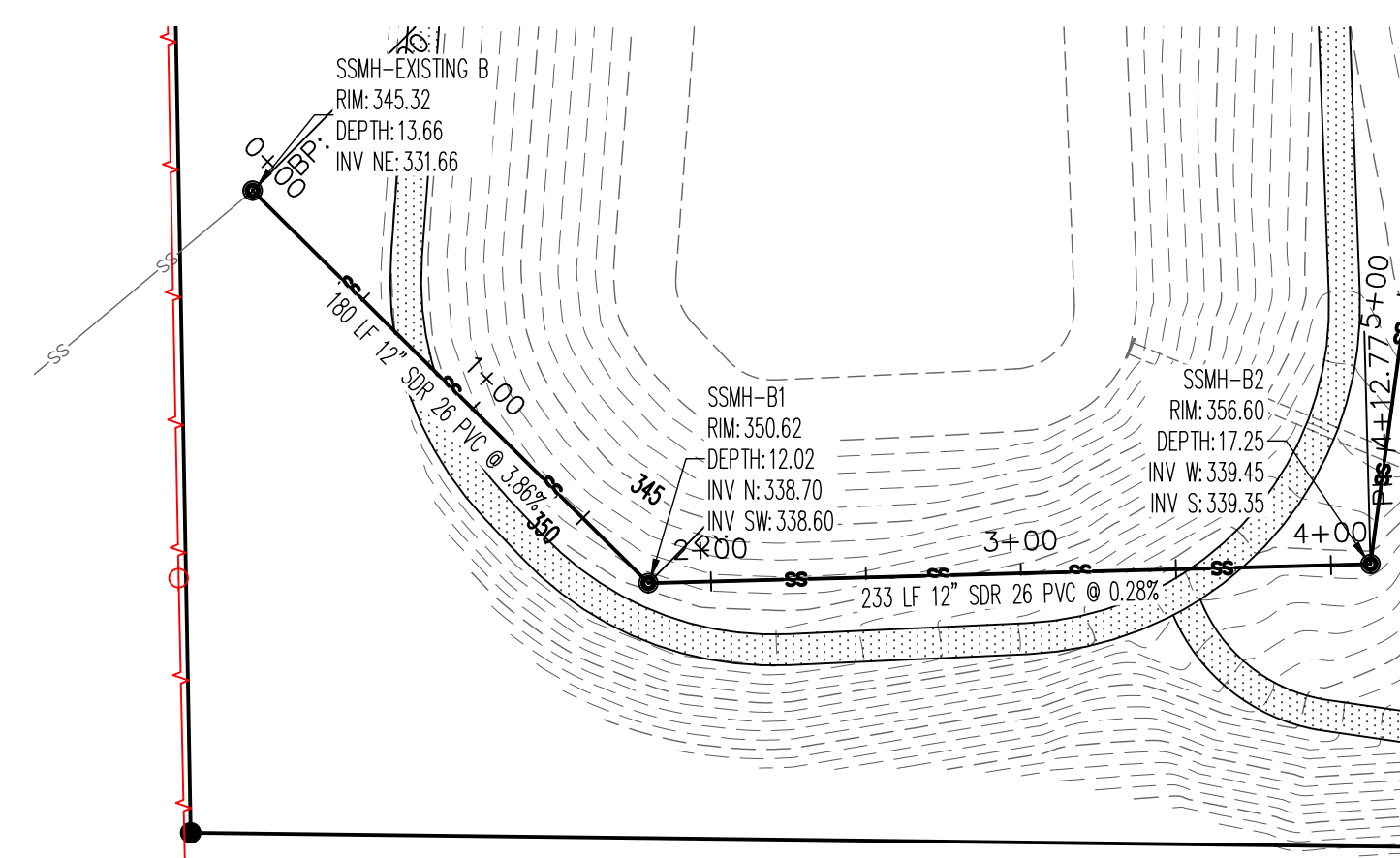
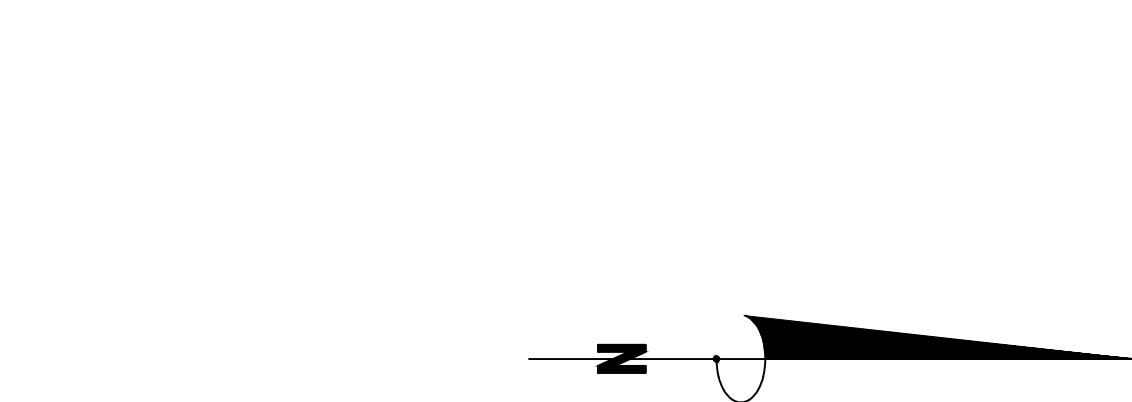
DATE: 06/30/2020  
DESIGNED BY: JEREMY A. BEVILL - CIVIL ENGINEER  
ARIZONA - PE # 13420

## SEWER PLAN & PROFILE

SOUTHERN HILLS  
SOUTHWEST DR. & KELLERS CHAPEL RD.  
JONESBORO, ARIZONA

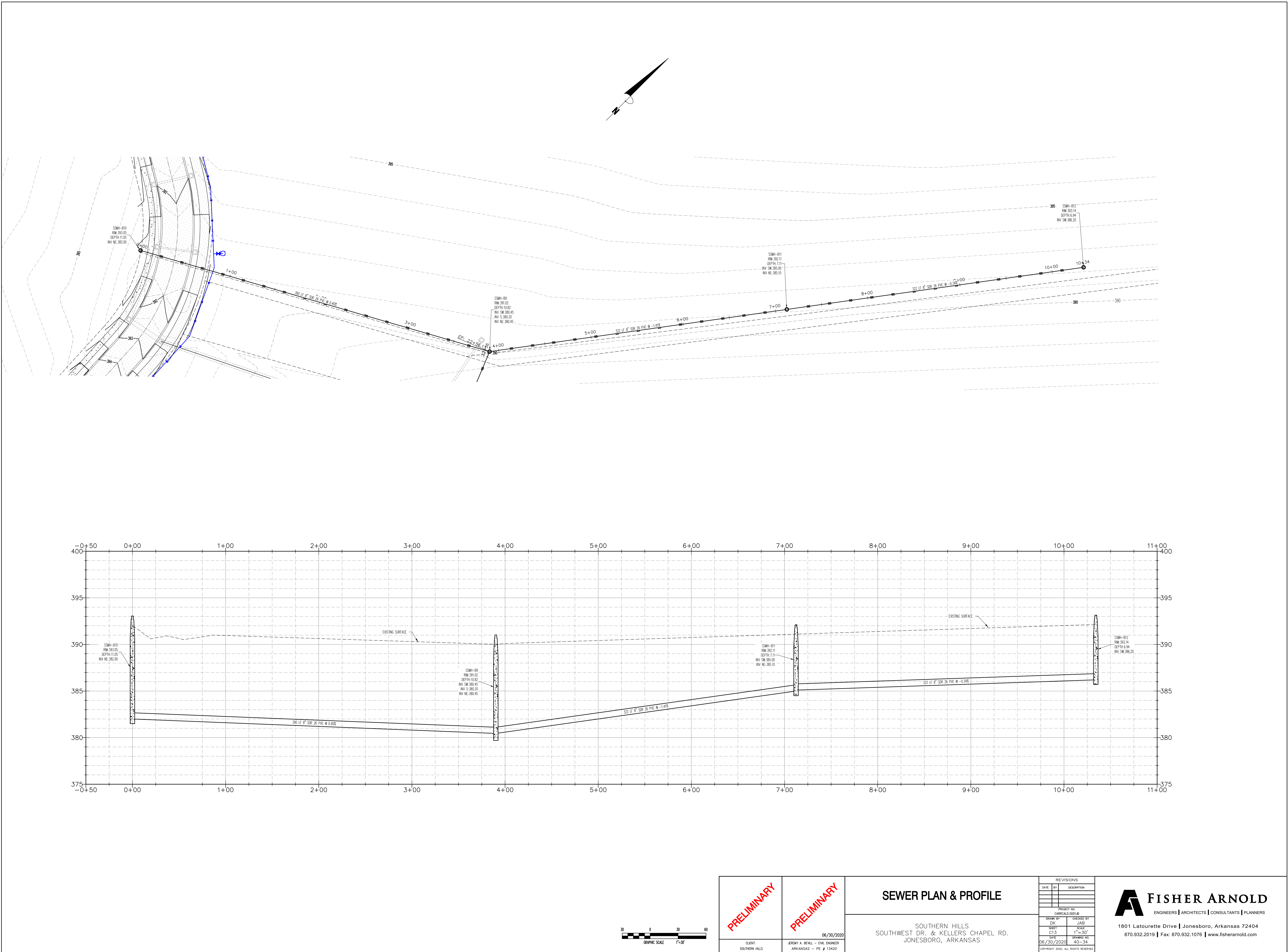
| REVISIONS                           |             |
|-------------------------------------|-------------|
| DATE                                | DESCRIPTION |
|                                     |             |
|                                     |             |
|                                     |             |
| PROJECT NO. CIP/001-001-B           |             |
| DESIGNED BY: JAB                    |             |
| CHECKED BY: C11                     |             |
| DATE: 06/30/2020                    |             |
| DRAWN BY: JAB                       |             |
| SCALE: 1"=50'                       |             |
| SHEET: 40-34                        |             |
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|                           |                                                           |                                      |                      |             |
|---------------------------|-----------------------------------------------------------|--------------------------------------|----------------------|-------------|
| <b>PRELIMINARY</b>        | <b>PRELIMINARY</b>                                        | <b>SEWER PLAN &amp; PROFILE</b>      | REVISIONS            |             |
|                           |                                                           |                                      | DATE                 | DESCRIPTION |
| CLIENT:<br>SOUTHERN HILLS | JEREMY A. BEYLL - CIVIL ENGINEER<br>ARKANSAS - PE # 13420 | PROJECT NO.<br>C12                   | DRAWN BY<br>JAB      |             |
|                           |                                                           |                                      | CHECKED BY<br>JAB    |             |
|                           |                                                           | SHEET<br>C12                         | SCALE<br>1"=60'      |             |
|                           |                                                           | DATE<br>06/30/2020                   | DRAWING NO.<br>40-34 |             |
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PRELIMINARY

CLIENT:  
SOUTHERN HILLS

PRELIMINARY

DATE:  
06/30/2020

DESIGNED BY:  
JAB

CHECKED BY:  
C13

DATE:  
06/30/2020

PROJECT NO:  
C000000000

DESIGNED BY:  
JAB

CHECKED BY:  
C13

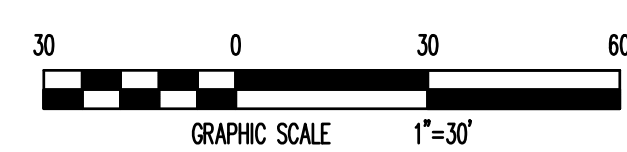
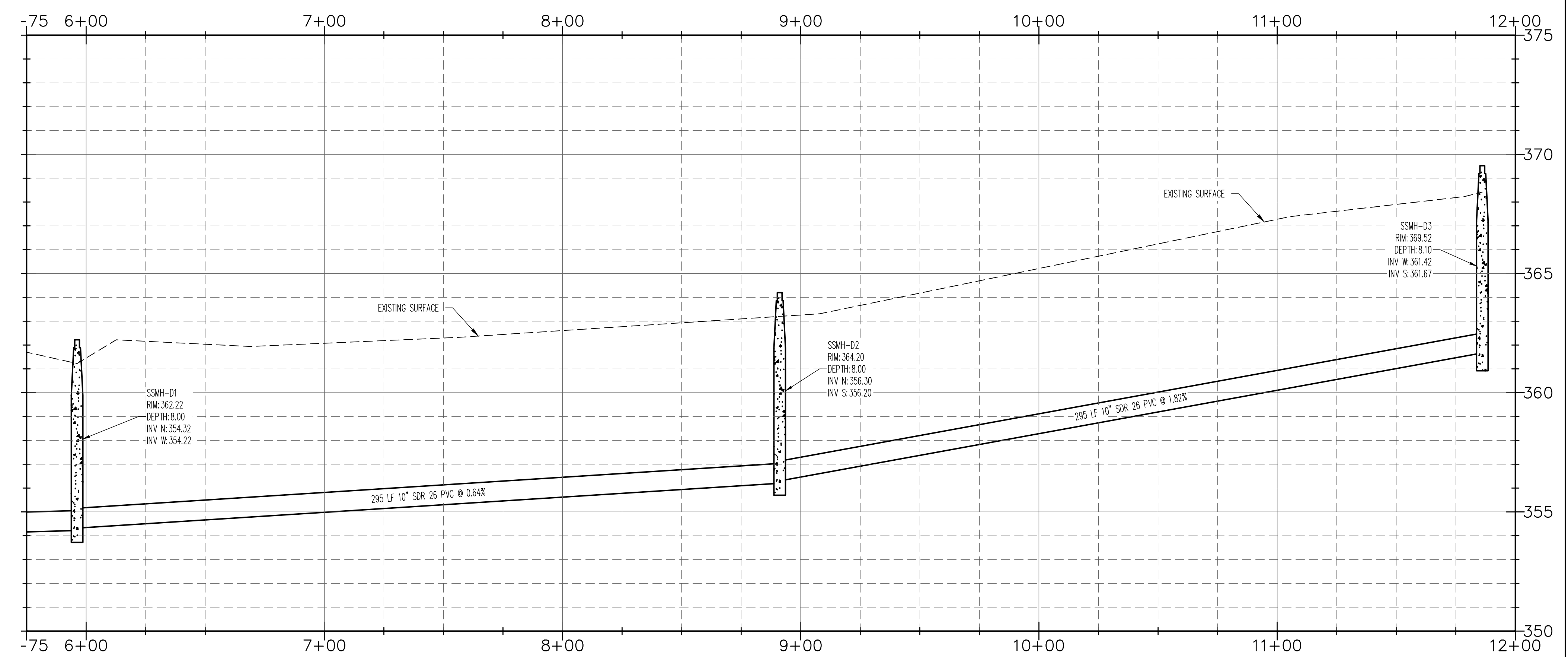
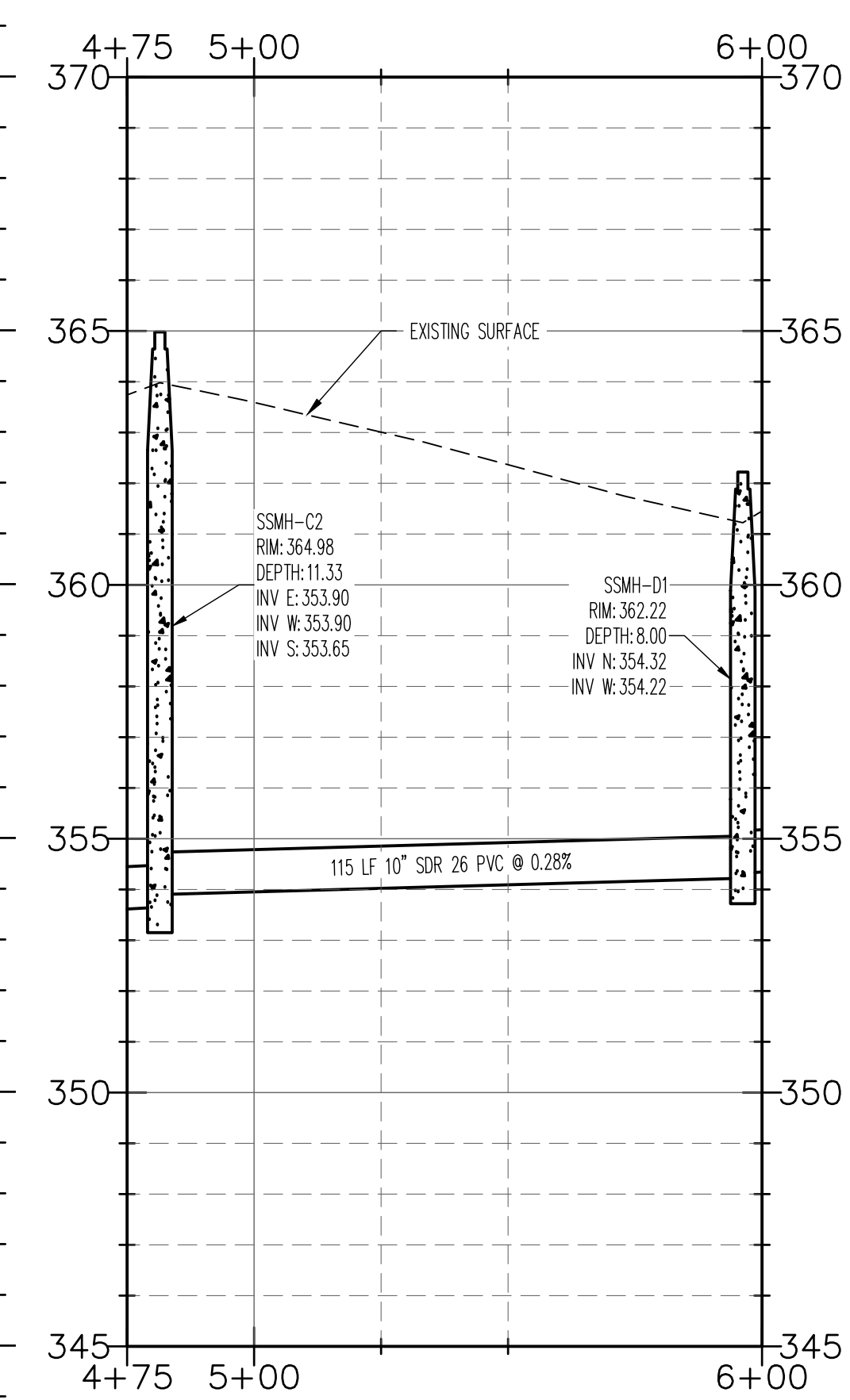
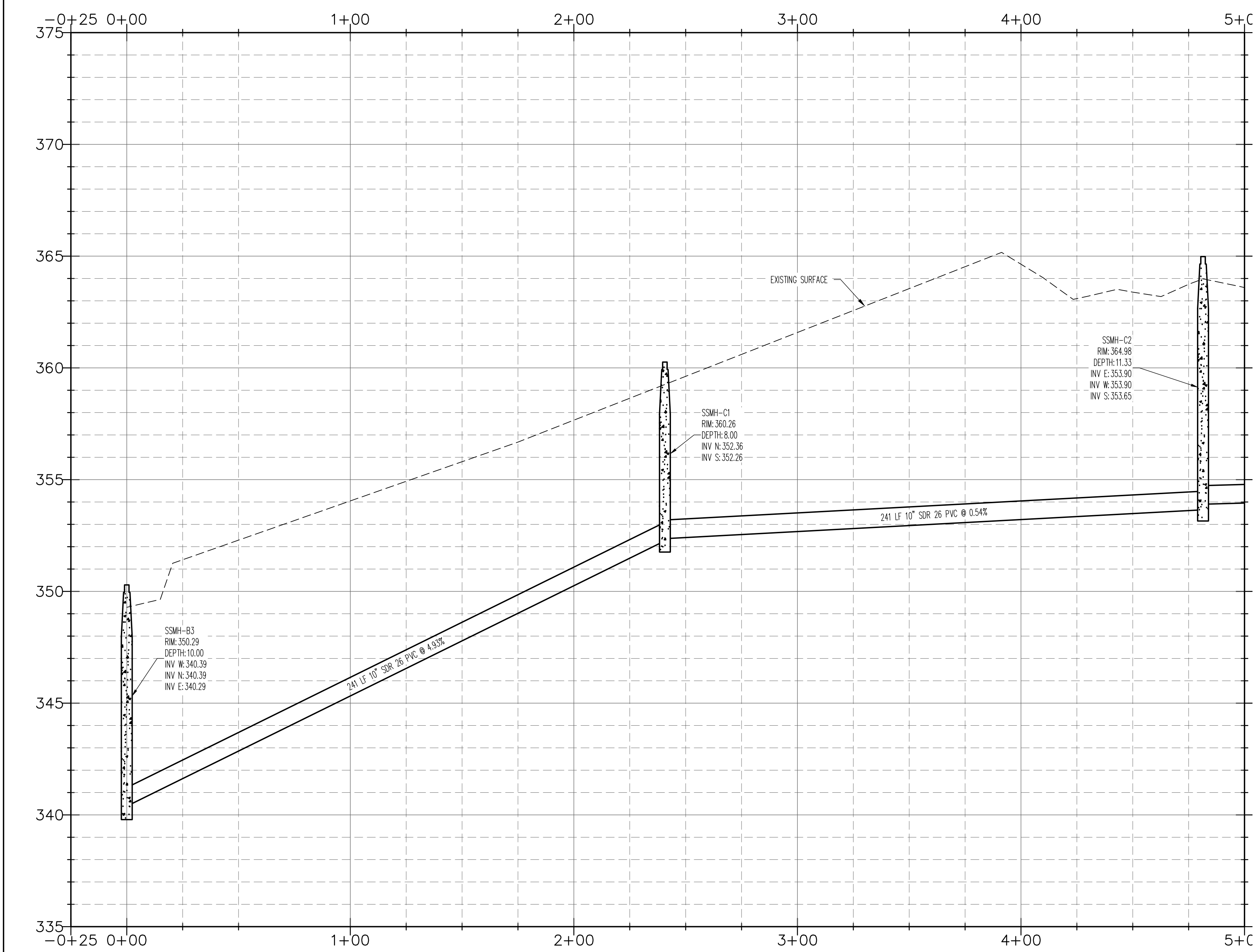
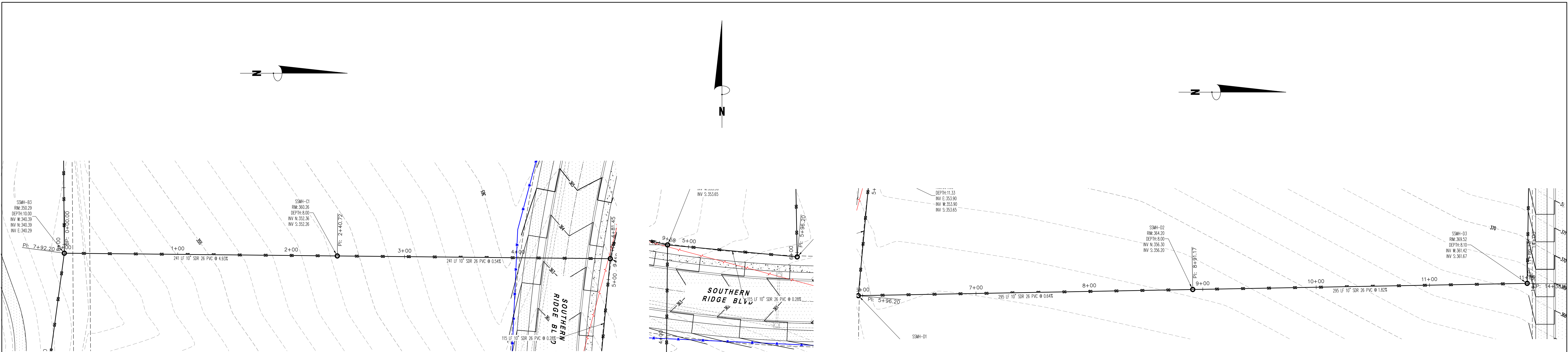
DATE:  
06/30/2020

SEWER PLAN & PROFILE

SOUTHERN HILLS  
SOUTHWEST DR. & KELLERS CHAPEL RD.  
JONESBORO, ARKANSAS

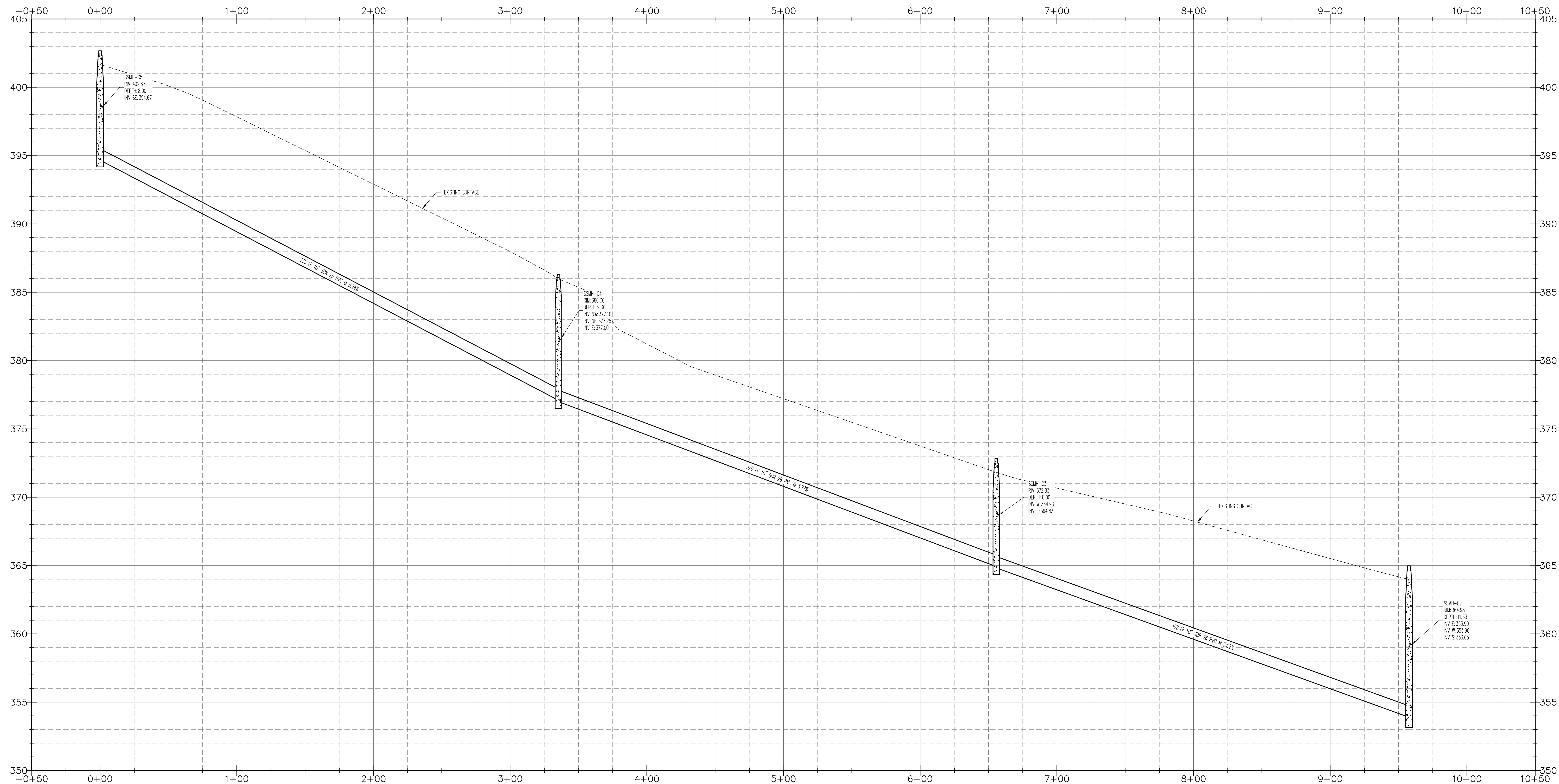
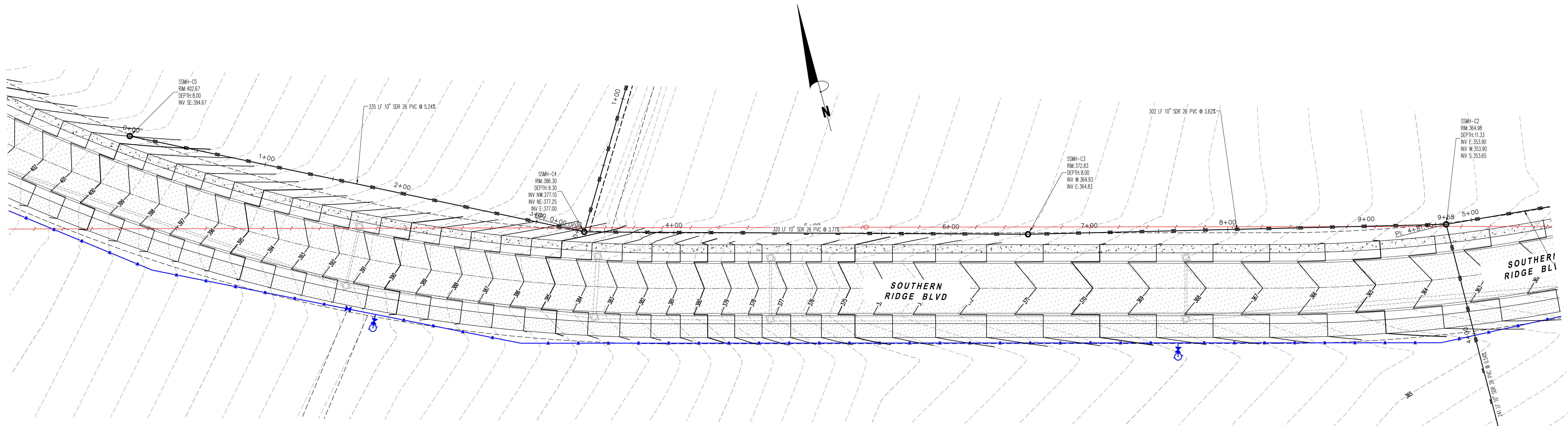
| REVISIONS |             |
|-----------|-------------|
| DATE      | DESCRIPTION |
|           |             |
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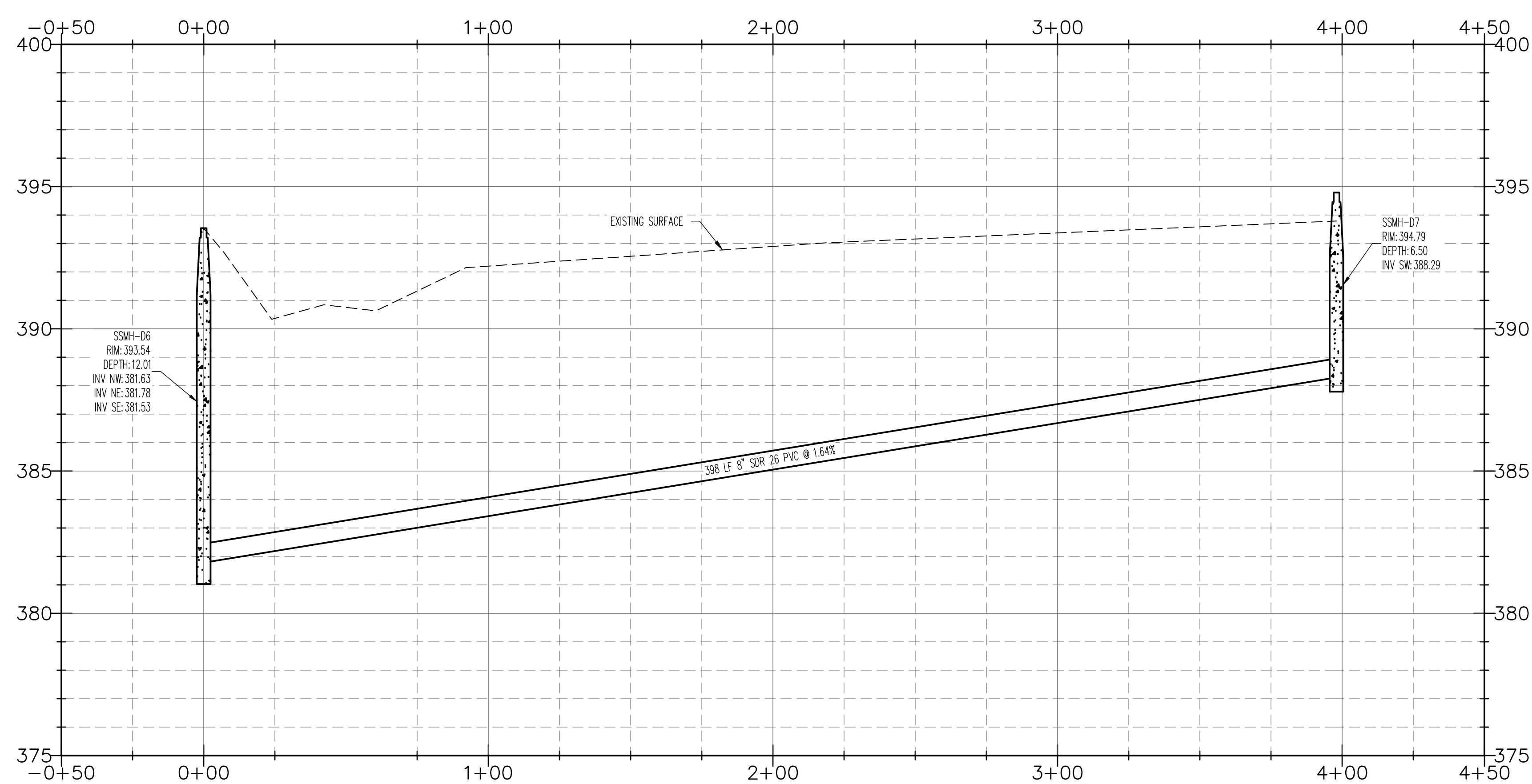
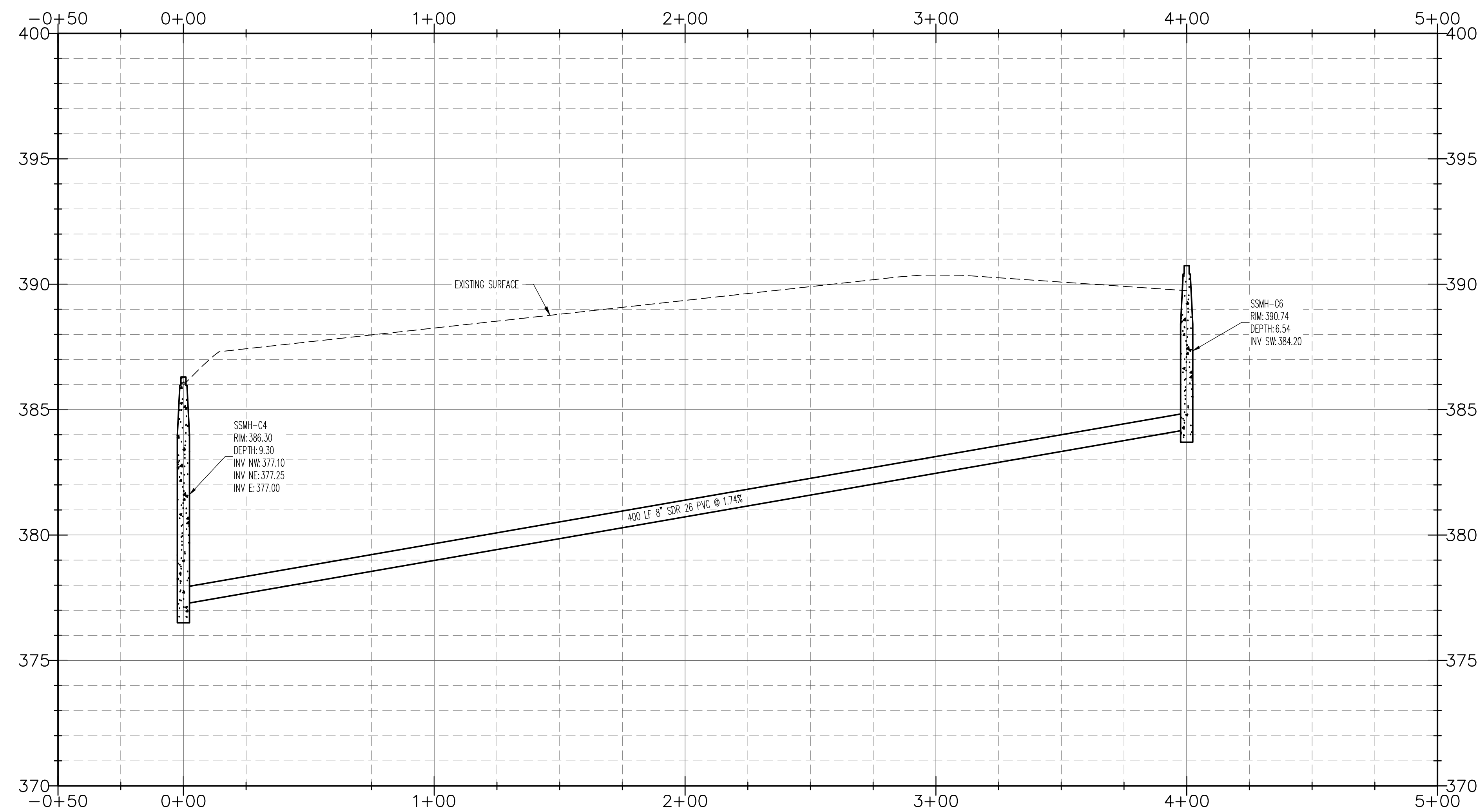
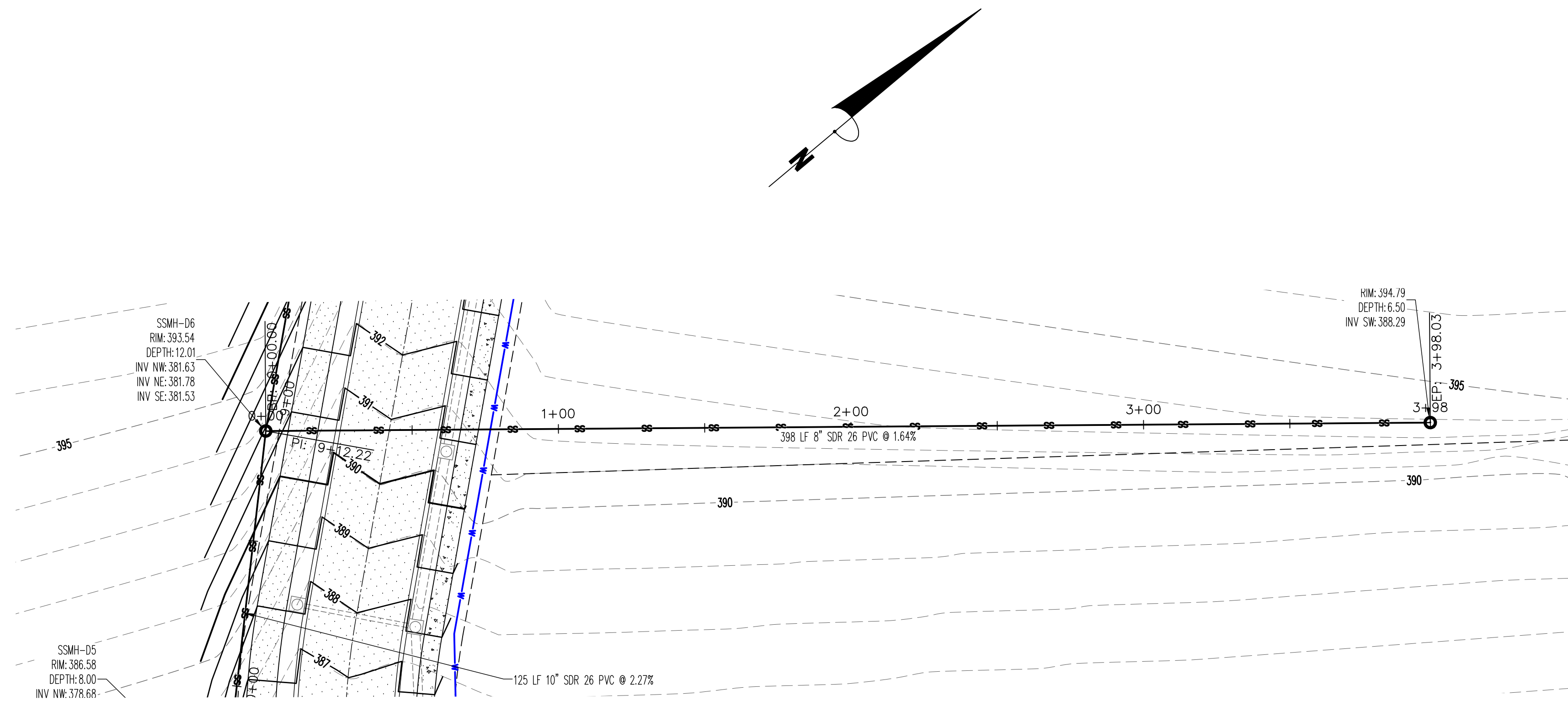
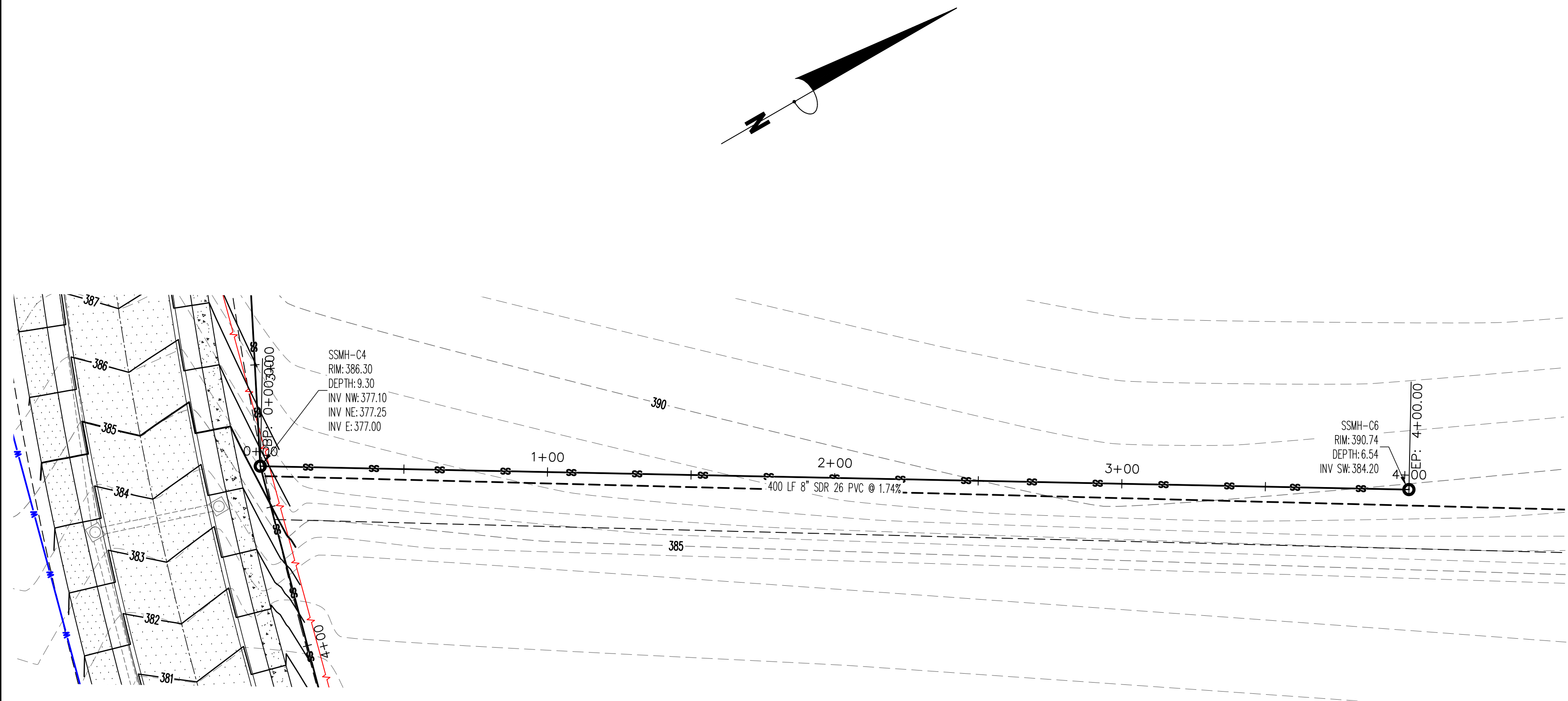
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| <b>PRELIMINARY</b>                          | <b>PRELIMINARY</b> | <b>SEWER PLAN &amp; PROFILE</b>     | REVISIONS |             |
|                                             |                    |                                     | DATE      | DESCRIPTION |
| CLIENT: SOUTHERN HILLS                      |                    | PROJECT NO. C14001-001-00           |           |             |
| DRAWN BY: JEREMY A. BEVELL - CIVIL ENGINEER |                    | DESIGNED BY: JAB                    |           |             |
| SHEET: 1 OF 1                               |                    | SCALE: 1"=30'                       |           |             |
| DATE: 06/30/2020                            |                    | DRAWING NO. 40-34                   |           |             |
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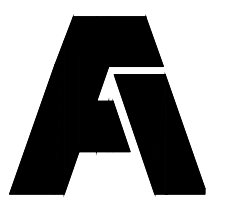


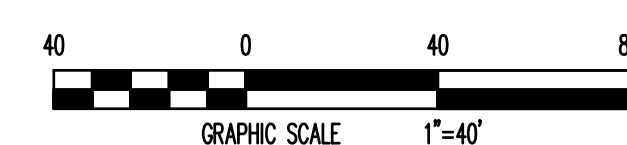
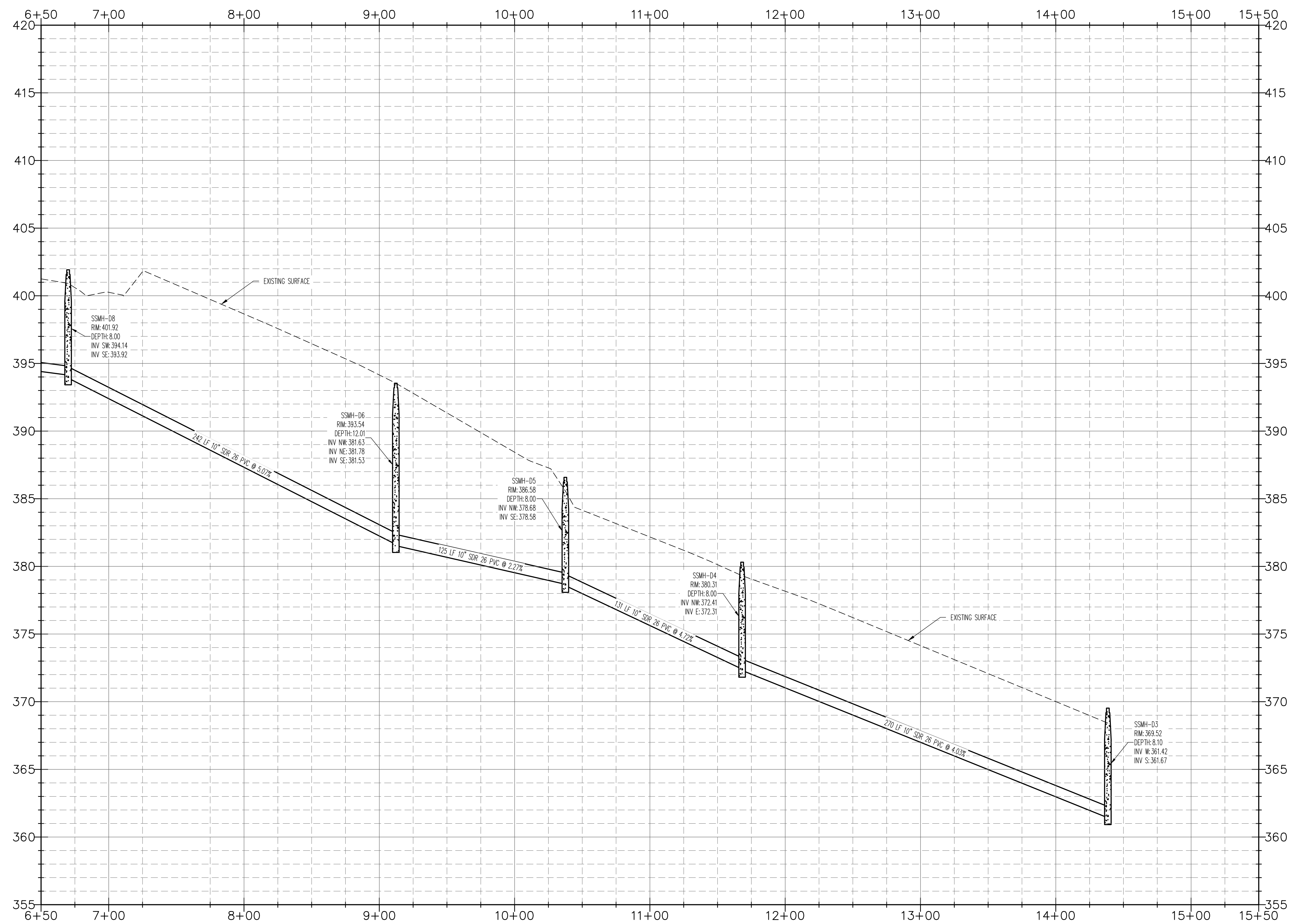
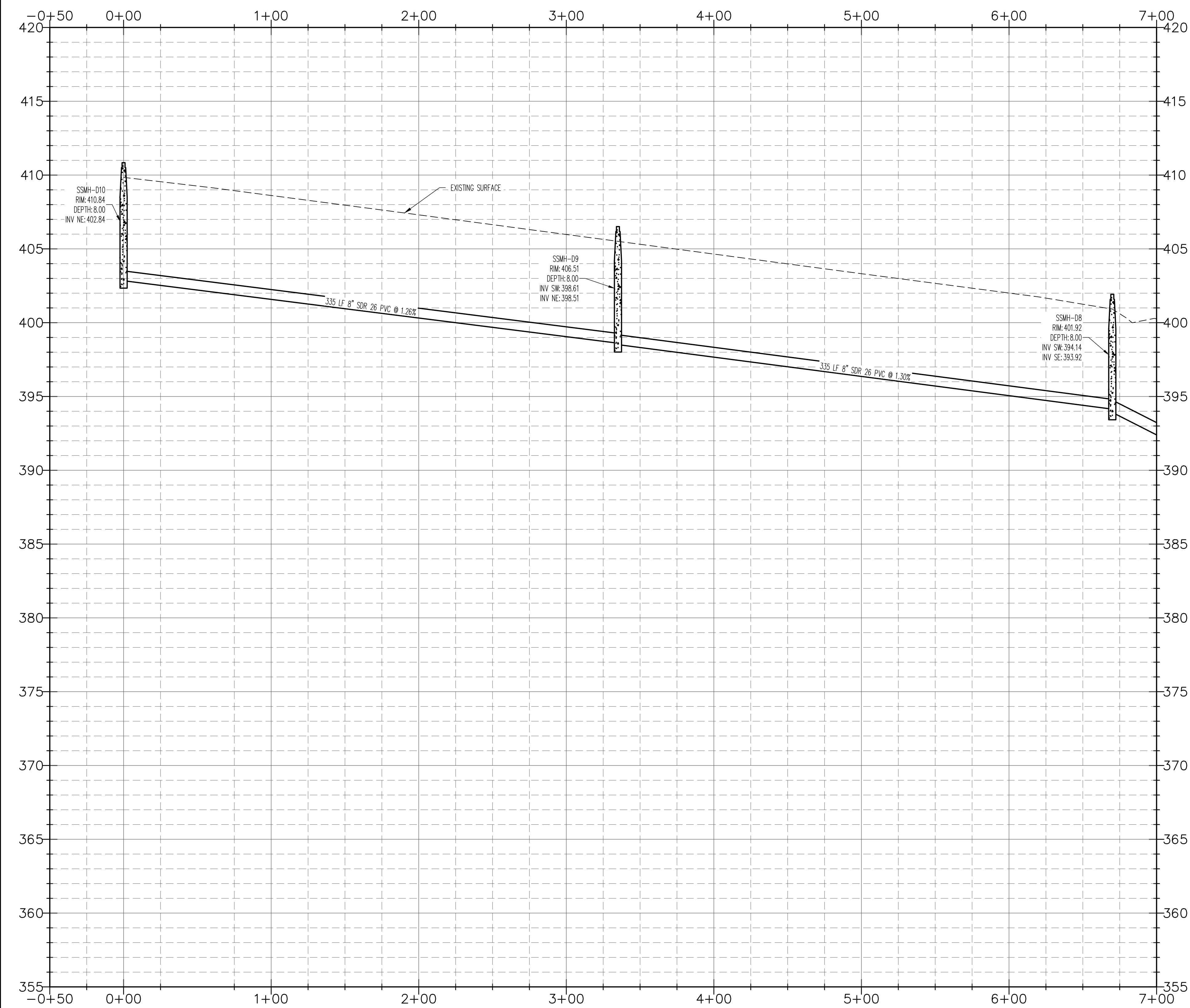
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| <b>PRELIMINARY</b>                   | <b>PRELIMINARY</b>  | <b>SEWER PLAN &amp; PROFILE</b>      | REVISIONS                                                                   |             |
|                                      |                     |                                      | DATE                                                                        | DESCRIPTION |
| CLIENT:<br>SOUTHERN HILLS            | DESIGNED BY:<br>JAB | PROJECT NO:<br>C15                   | SOUTHERN HILLS<br>SOUTHWEST DR. & KELLERS CHAPEL RD.<br>JONESBORO, ARKANSAS |             |
| DATE:<br>06/30/2020                  |                     | DRAWN BY:<br>C15                     |                                                                             |             |
| SHEET:<br>40-34                      |                     | SHEET:<br>40-34                      |                                                                             |             |
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|                           |                                                            |                                                                             |                                                                                                                                     |             |
|---------------------------|------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------|
| <b>PRELIMINARY</b>        | <b>PRELIMINARY</b>                                         | <b>SEWER PLAN &amp; PROFILE</b>                                             | REVISIONS                                                                                                                           |             |
|                           |                                                            |                                                                             | DATE                                                                                                                                | DESCRIPTION |
| CLIENT:<br>SOUTHERN HILLS | JEREMY A. BEVILL - CIVIL ENGINEER<br>ARKANSAS - PE # 13420 | SOUTHERN HILLS<br>SOUTHWEST DR. & KELLERS CHAPEL RD.<br>JONESBORO, ARKANSAS | PROJECT NO.<br>CAPITAL 0001-01                                                                                                      |             |
|                           |                                                            |                                                                             | DRAWN BY: JAB<br>CHECKED BY: JAB<br>SCALE: 1"=30'<br>DATE: 06/30/2020<br>DRAWING NO.: 40-34<br>COPYRIGHT 2020. ALL RIGHTS RESERVED. |             |

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**PRELIMINARY**

PRELIMINARY

06/30/2022  
CIVIL ENGINEER

CLIENT:  
SOUTHERN HILL

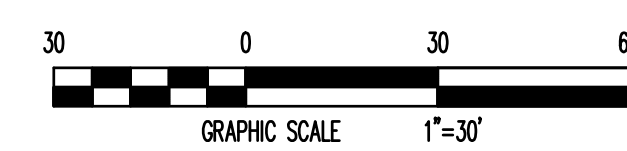
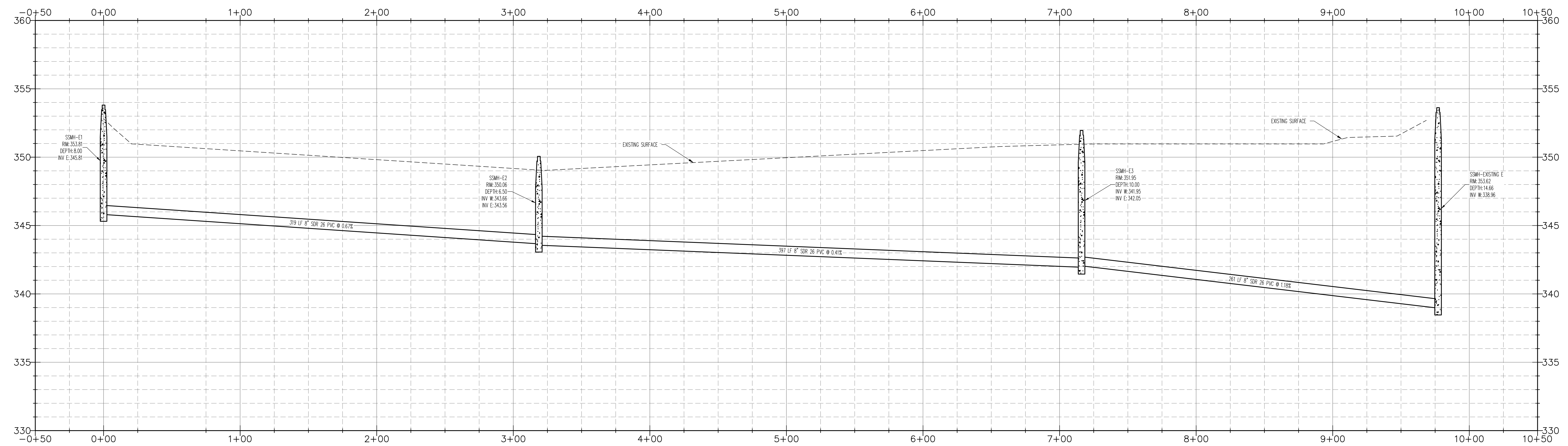
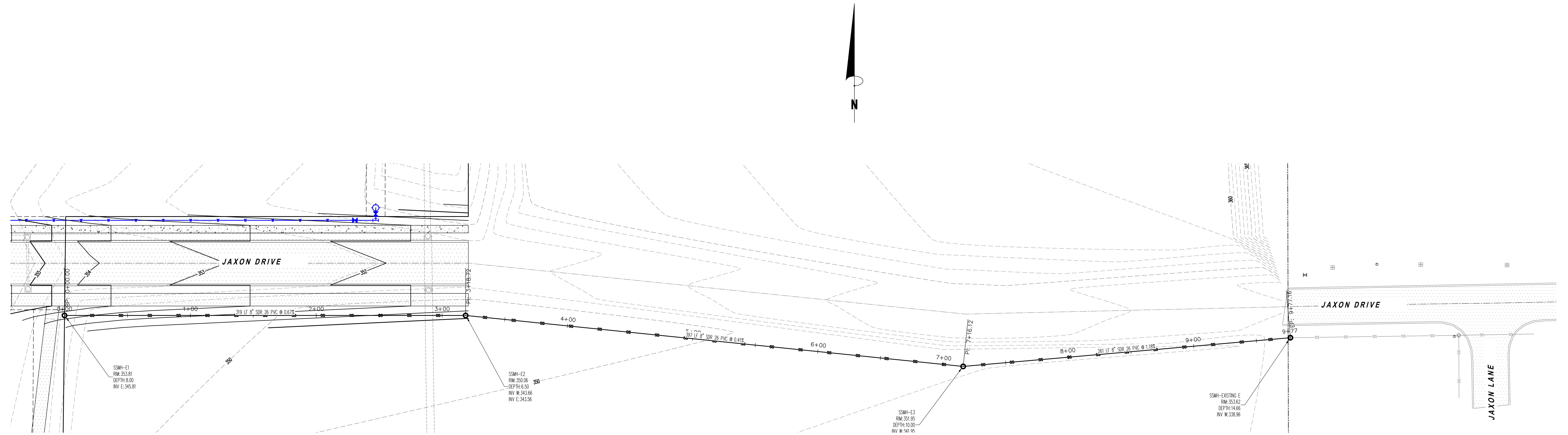
JEREMY A. BEVILL - CIVIL ENGINEER  
ARKANSAS - PE # 13420

SOUTHERN HILLS  
SOUTHWEST DR. & KELLERS CHAPEL RD.  
JONESBORO, ARKANSAS

|                                     |    |                      |
|-------------------------------------|----|----------------------|
| REVISIONS                           |    |                      |
| DATE                                | BY | DESCRIPTION          |
|                                     |    |                      |
|                                     |    |                      |
|                                     |    |                      |
| PROJECT NO.<br>CARRCALD.0001JB      |    |                      |
| DRAWN BY<br>DK                      |    | CHECKED BY<br>JAB    |
| SHEET<br>C17                        |    | SCALE<br>1" = 40'    |
| DATE<br>06/30/2020                  |    | DRAWING NO.<br>40-34 |
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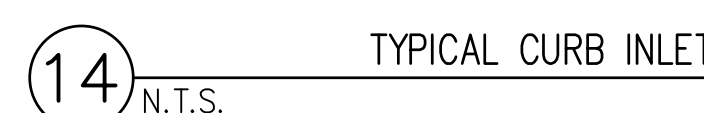
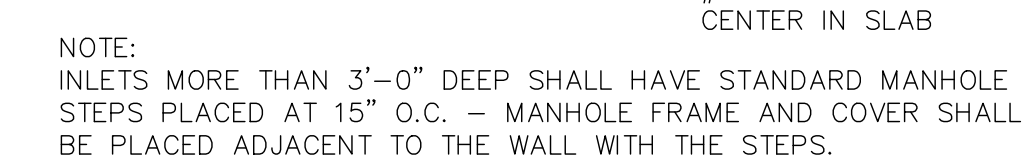
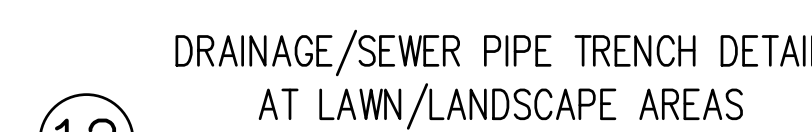
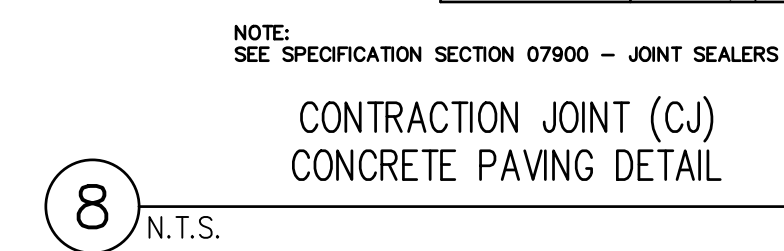
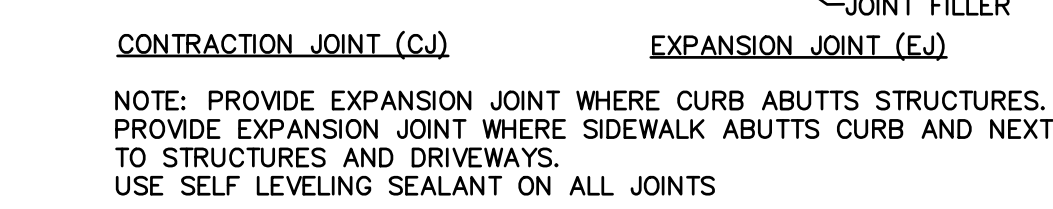
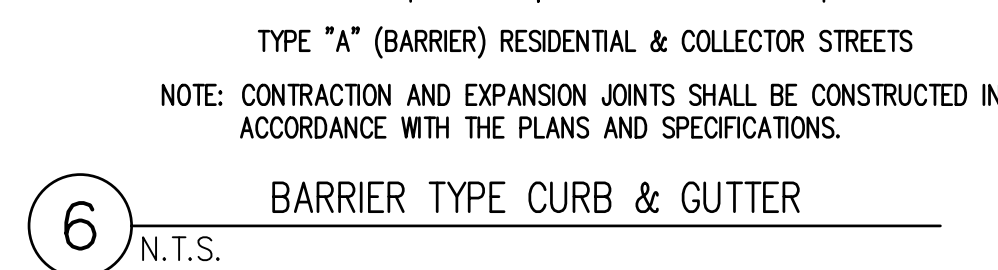
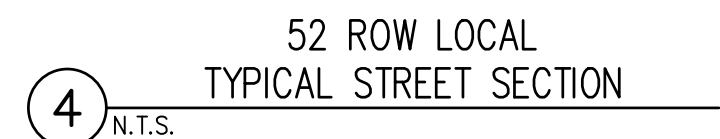


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|                           |                                                             |                                                                             |                                 |                                      |
|---------------------------|-------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------|--------------------------------------|
| <b>PRELIMINARY</b>        | <b>PRELIMINARY</b>                                          | <b>SEWER PLAN &amp; PROFILE</b>                                             | REVISIONS                       |                                      |
|                           |                                                             |                                                                             | DATE                            | DESCRIPTION                          |
| CLIENT:<br>SOUTHERN HILLS | JEREMY A. BEVELL - CIVIL ENGINEER<br>ARKANSAS - PE # 134429 | SOUTHERN HILLS<br>SOUTHWEST DR. & KELLERS CHAPEL RD.<br>JONESBORO, ARKANSAS | DATE                            | DESCRIPTION                          |
|                           |                                                             |                                                                             | DATE                            | DESCRIPTION                          |
|                           |                                                             |                                                                             | PROJECT NO.<br>CARRICALD.0001.B | DESIGNED BY<br>JAB                   |
|                           |                                                             |                                                                             | DRAWN BY<br>C18                 | CHECKED BY<br>JAB                    |
|                           |                                                             |                                                                             | DATE<br>06/30/2020              | SCALE<br>1"=30'                      |
|                           |                                                             |                                                                             | DRAWING NO.<br>40-34            | COPYRIGHT 2020. ALL RIGHTS RESERVED. |

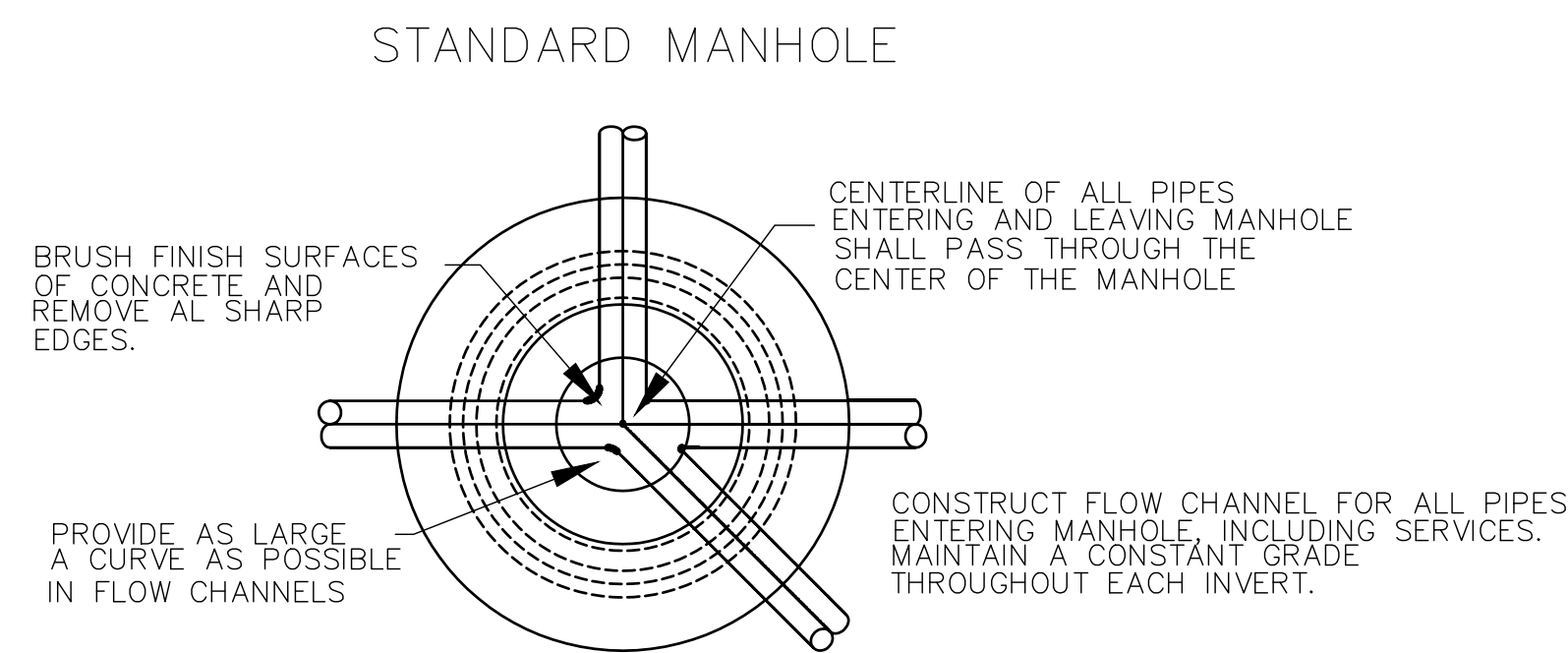
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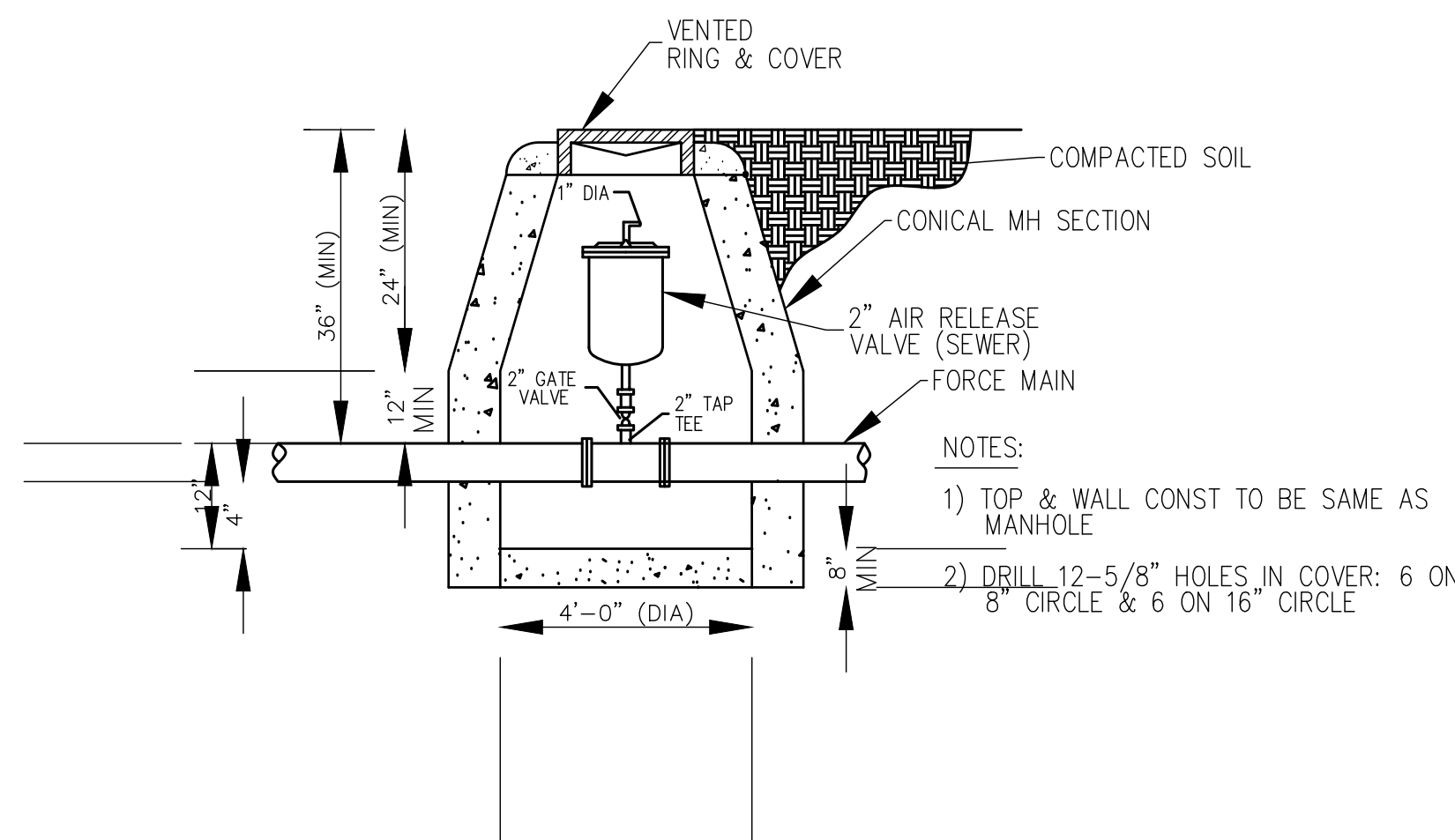
|                                       |                                                                      |                       |                                                                                              |                                                                                                                                                                                                                                                                                        |                                  |             |
|---------------------------------------|----------------------------------------------------------------------|-----------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------|
| <div>PRELIMINARY</div>                | <div>PRELIMINARY</div>                                               | <div>09/30/2020</div> | <div>SOUTHERN HILLS<br/>SOUTHWEST DR. &amp; KELLERS CHAPEL RD.<br/>JONESBORO, ARKANSAS</div> | <div>REVISIONS</div>                                                                                                                                                                                                                                                                   |                                  |             |
|                                       |                                                                      |                       |                                                                                              | DATE                                                                                                                                                                                                                                                                                   | BY                               | DESCRIPTION |
|                                       |                                                                      |                       |                                                                                              |                                                                                                                                                                                                                                                                                        |                                  |             |
|                                       |                                                                      |                       |                                                                                              |                                                                                                                                                                                                                                                                                        |                                  |             |
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|                                       |                                                                      |                       |                                                                                              |                                                                                                                                                                                                                                                                                        |                                  |             |
| <div>CLIENT:<br/>SOUTHERN HILLS</div> | <div>JEREMY A. BEAL - CIVIL ENGINEER<br/>ARKANSAS - PE # 13440</div> | <div>08/30/2020</div> | <div>SOUTHERN HILLS<br/>SOUTHWEST DR. &amp; KELLERS CHAPEL RD.<br/>JONESBORO, ARKANSAS</div> | <div>PROJECT NO.<br/>CARCALD 0001.B</div>                                                                                                                                                                                                                                              |                                  |             |
|                                       |                                                                      |                       |                                                                                              | <div>DRAWN BY<br/>SKB</div>                                                                                                                                                                                                                                                            | <div>CHECKED BY<br/>JAB</div>    |             |
|                                       |                                                                      |                       |                                                                                              | <div>SHEET<br/>C19</div>                                                                                                                                                                                                                                                               | <div>SCALE<br/>N.T.S.</div>      |             |
|                                       |                                                                      |                       |                                                                                              | <div>DATE<br/>08/30/2020</div>                                                                                                                                                                                                                                                         | <div>DRAWING NO.<br/>40-34</div> |             |
|                                       |                                                                      |                       |                                                                                              | <div>COPYRIGHT © 2020, ALL RIGHTS RESERVED</div>                                                                                                                                                                                                                                       |                                  |             |
|                                       |                                                                      |                       |                                                                                              | <div><div><div>A</div><div>FISHER ARNOLD</div><div>ENGINEERS   ARCHITECTS   CONSULTANTS   PLANNERS</div></div><div>1801 Latourette Drive   Jonesboro, Arkansas 72404<br/>870.932.2019   Fax: 870.932.1076   <a href="http://www.fisherarnold.com">www.fisherarnold.com</a></div></div> |                                  |             |

## ① MANHOLE DETAILS

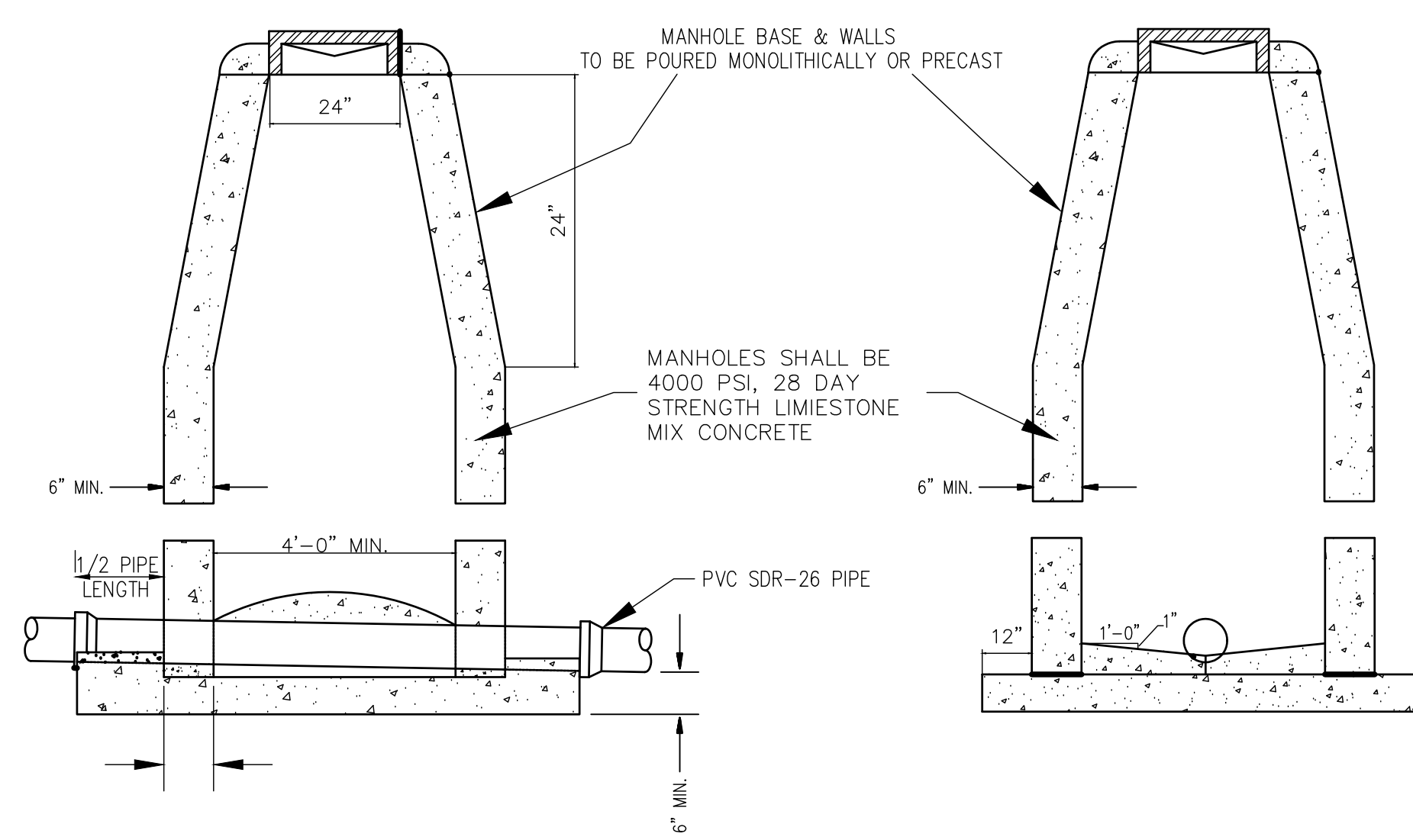
- MANHOLE BASES TO BE 4000 PSI, 28 DAY STRENGTH, LIMESTONE MIX CONCRETE ON UNDISTURBED SUB-GRADE OR ON COMPACTED SELECT FILL MATERIAL AS AUTHORIZED.
- MANHOLE SIDEWALL MATERIAL TO BE CONCRETE IN ACCORDANCE WITH PROPOSAL FORM REQUIREMENTS.
  - 4" I.D. FOR SEWER SIZES 6" THRU 24"
  - 5" I.D. FOR SEWER SIZES 24" THRU 30"
  - 6" I.D. FOR SEWER SIZES 36" THRU 42"
- SET MANHOLE TOPS AS FOLLOWS:
  - IN STREETS, ROADS, HIGHWAYS, AND OTHER PAVED AREAS: FLUSH WITH FINISHED PAVING GRADE
  - UNDEVELOPED AREAS, SUCH AS FIELDS, WOODS, ETC.: 12" ABOVE GROUND.
  - OTHER AREAS: 1" ABOVE GROUND.
- MANHOLE FRAMES SHALL HAVE MIN. OPENING OF 22" DIA.



## ⑤ AIR/VACUUM RELEASE VALVE DETAIL



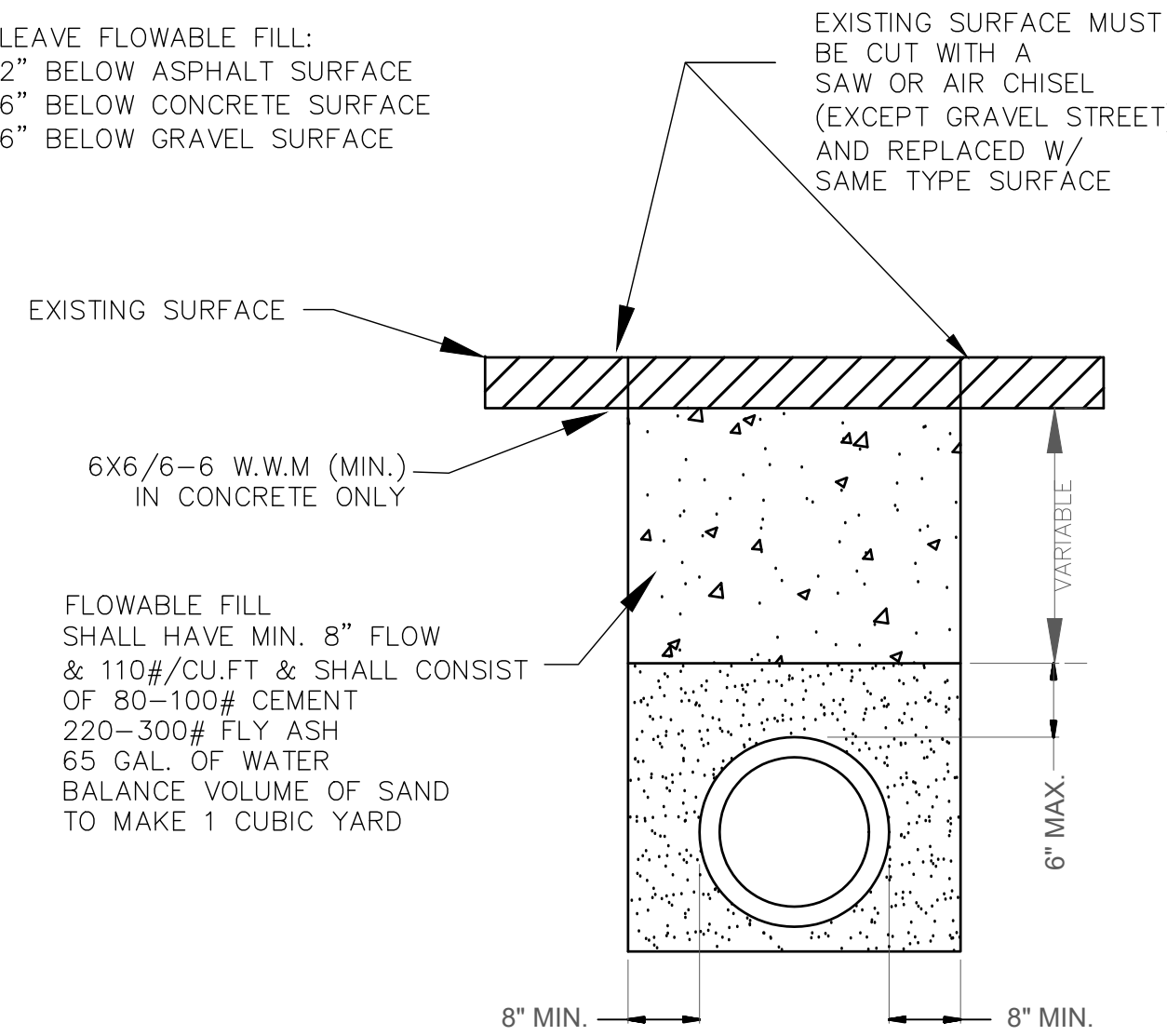
## ⑧ STANDARD MANHOLE



SIDE ELEVATION

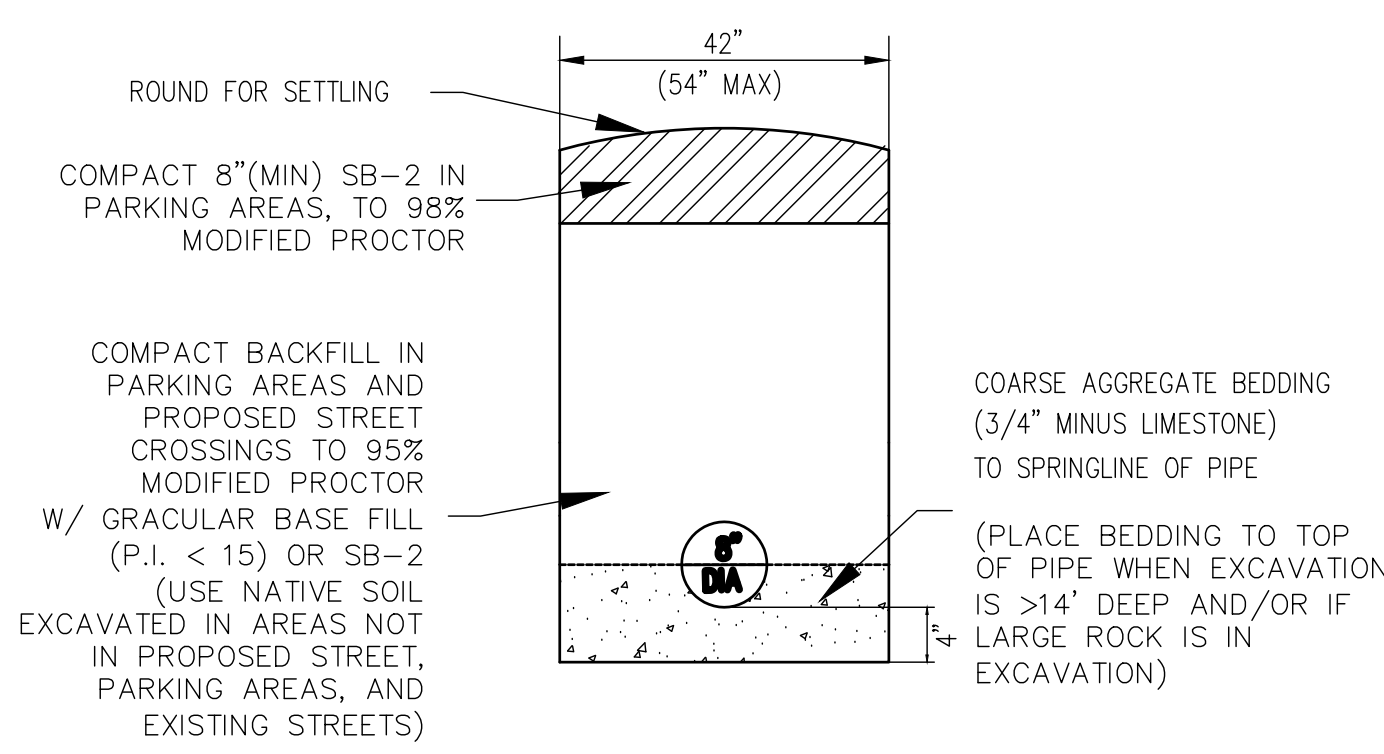
## ② EXISTING STREET LOCATIONS

- NOTE: (1) CONTRACTOR SHALL OBTAIN A STREET CROSSING PERMIT FROM THE CITY OF JONESBORO PRIOR TO CUTTING STREET.
- EXCAVATED MATERIAL SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR
  - THIS REPAIR DETAIL IS REQUIRED FOR ALL EXCAVATION WITHIN 5' OF PAVED EDGE AND ALL TRANSVERSE EXCAVATIONS TO EXTEND 3' BEYOND PAVED EDGE.



## ③ NON-EXISTING STREET LOCATIONS SDR-26 PVC TRENCH DETAIL

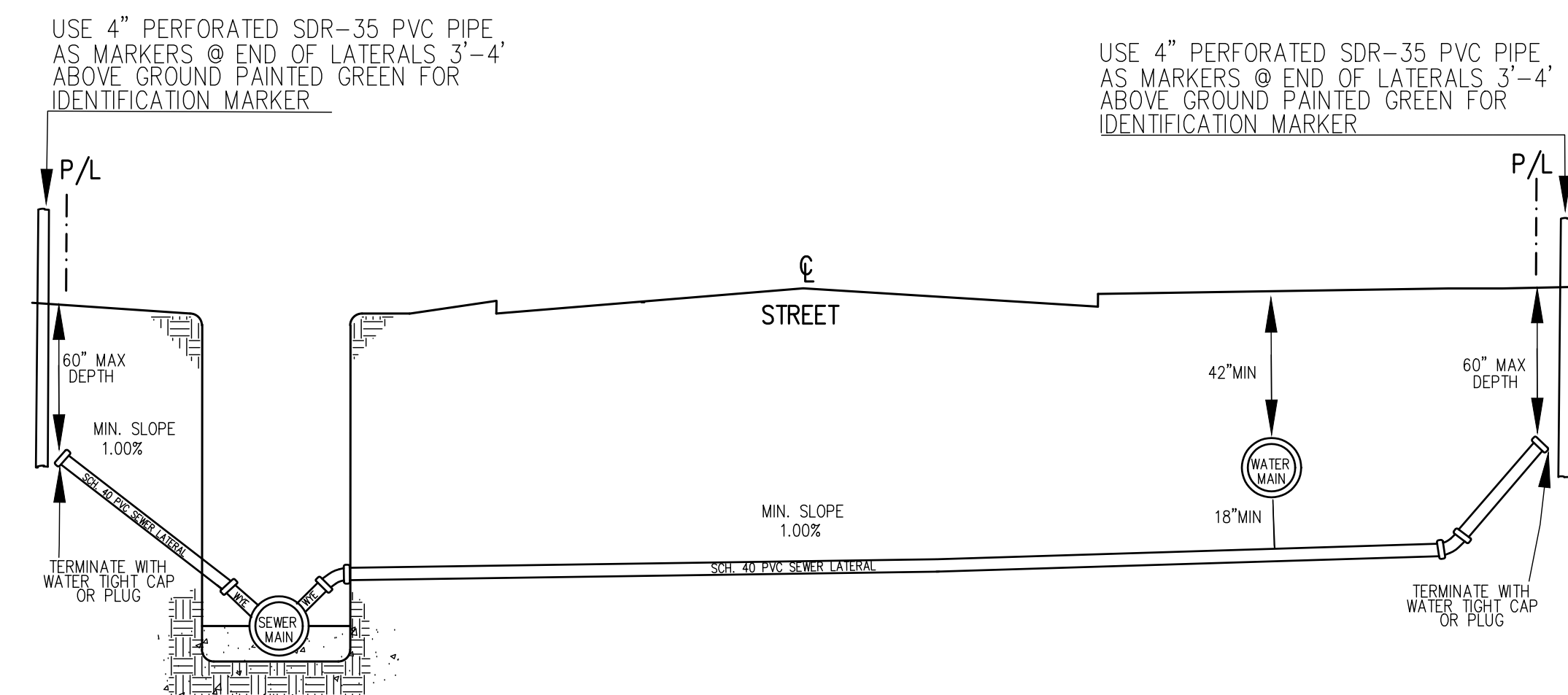
- NOTES:
- COARSE AGGREGATE SHALL BE MECHANICALLY TAMPED WHEN USED.
  - PIPE IN TRENCH SHALL BE PLACED ON NO LESS THAN 4\"/>
  - PVC PIPE SHALL BE SDR-26 AND INSTALLED IN ACCORDANCE WITH UNI-BELL PVC PIPE ASSOCIATION'S RECOMMENDATIONS FOR CONSTRUCTION.



## SEWER LATERAL STUBOUT

### ⑦ PERMITS REQUIRED BEFORE INSTALLATION

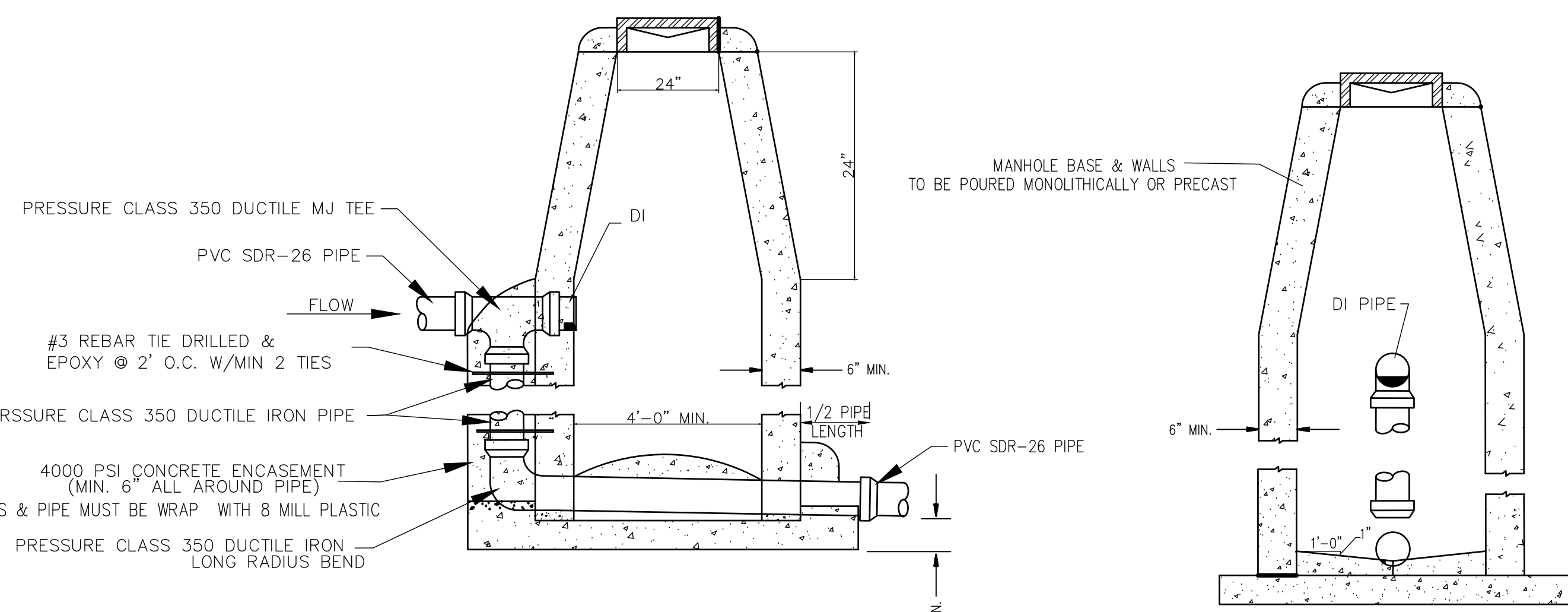
USE SAME CONFIGURATION FOR MANHOLE STUBOUTS



## ⑥ ENCASEMENT FOR SEWER MAINS AT WATER CROSSINGS

NOTE: WHEN 18\"/>

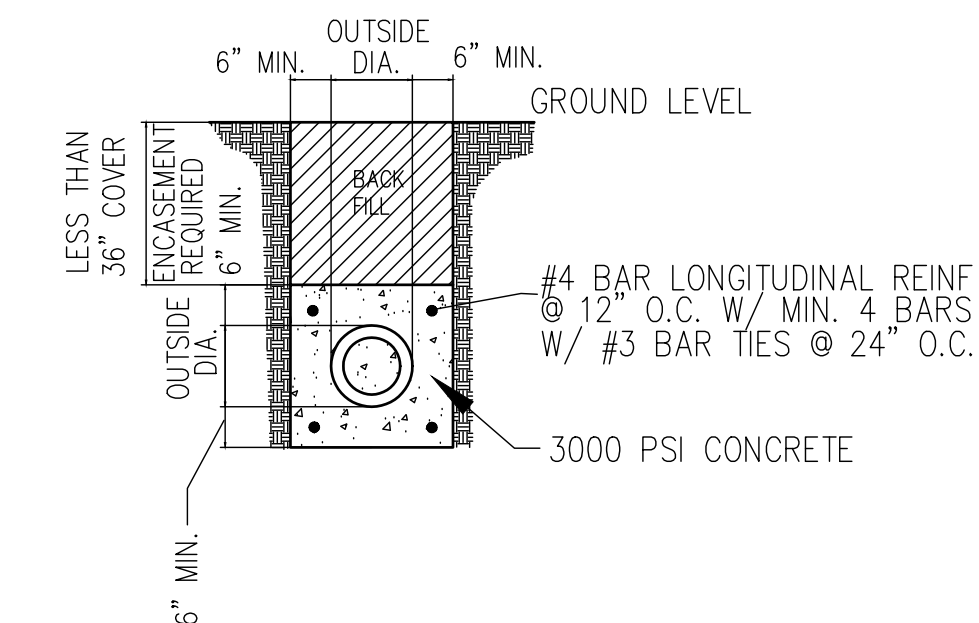
## ⑨ DROP MANHOLE



SIDE ELEVATION

SECTION A-A

## ⑩ CONCRETE ENCASEMENT FOR DITCH CROSSINGS



NOTE: ENCASEMENT PIPE MUST BE PRESSURE CLASS 350 DUCTILE IRON AND WRAP DUCTILE IRON PIPE WITH 8 MILL PLASTIC

|                           |                        |                                                           |                      |                                                                             |    |                                                                                                                      |  |
|---------------------------|------------------------|-----------------------------------------------------------|----------------------|-----------------------------------------------------------------------------|----|----------------------------------------------------------------------------------------------------------------------|--|
| <div>PRELIMINARY</div>    | <div>PRELIMINARY</div> | <div>SEWER DETAILS</div>                                  | <div>REVISIONS</div> |                                                                             |    |                                                                                                                      |  |
|                           |                        |                                                           | DATE                 |                                                                             | BY | DESCRIPTION                                                                                                          |  |
|                           |                        |                                                           |                      |                                                                             |    |                                                                                                                      |  |
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|                           |                        |                                                           |                      |                                                                             |    |                                                                                                                      |  |
|                           |                        | PROJECT NO.<br>CARRCALD.0001.B                            |                      |                                                                             |    |                                                                                                                      |  |
| DRAWN BY<br>DK            |                        | CHECKED BY<br>JAB                                         |                      |                                                                             |    |                                                                                                                      |  |
| SHEET<br>C20              |                        | SCALE<br>N.T.S.                                           |                      |                                                                             |    |                                                                                                                      |  |
| DATE<br>06/30/2020        |                        | DRAWING NO.<br>40-34                                      |                      |                                                                             |    |                                                                                                                      |  |
| CLIENT:<br>SOUTHERN HILLS |                        | JEREMY A. BEALL - CIVIL ENGINEER<br>ARKANSAS - PE # 13420 |                      | SOUTHERN HILLS<br>SOUTHWEST DR. & KELLERS CHAPEL RD.<br>JONESBORO, ARKANSAS |    | <div><div><div>A</div></div><div>FISHER ARNOLD</div><div>ENGINEERS   ARCHITECTS   CONSULTANTS   PLANNERS</div></div> |  |
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