

THE METROPOLITAN SEWER DISTRICT  
OF GREATER CINCINNATI  
HAMILTON COUNTY

CONTRACT  
DRAWING  
PRINTS NOT BEARING THIS STAMP WERE  
MADE PRIOR TO ADVERTISING FOR BIDS  
AND ARE TO BE CONSIDERED OBSOLETE  
FOR CONTRACT PURPOSES.

PROPOSED PROJECT NO. 10370025  
KENWOOD HILLS  
LOCAL SEWER

NOTES:

**MANHOLES:** ALL PROPOSED MANHOLES AND DROP MANHOLES SHALL BE TYPE "S". ALL MANHOLES LOCATED OUTSIDE OF ROAD RIGHT-OF-WAY AND OUTSIDE OF MAINTAINED RESIDENTIAL YARDS SHALL HAVE MANHOLE TOPS 18" ABOVE GROUND. THE STANDARD PRECAST MANHOLE BASE WITH FLEXIBLE MANHOLE JOINTS SHALL BE USED WITH P.V.C. PIPE. IF THE CONTRACTOR PROVIDES PRECAST MANHOLES, THE CONTRACTOR SHALL ASSUME ANY RISK OF MAKING FIELD MODIFICATIONS TO THE PRECAST MANHOLES, DUE TO FIELD CONDITIONS

**PIPE JOINTS:** ALL PROPOSED CONDUIT SHALL HAVE RESILIENT AND FLEXIBLE JOINTS.

**HOUSE CONNECTIONS:** ALL HOUSE CONNECTIONS SHALL BE TYPE "I" CONDUIT WITH RESILIENT AND FLEXIBLE JOINTS, EITHER P.V.C. OR ABS CONDUIT, SDR35 WITH ASTM D-3212 FLEXIBLE ELASTOMERIC SEALS.

**UNDERGROUND STRUCTURES:** LOCATION OF UNDERGROUND STRUCTURES ARE NOT GUARANTEED. APPROXIMATE LOCATION OF GAS, WATER & ELECTRIC SERVICE LATERALS ARE SHOWN IN PLAN VIEW ONLY.

**OVERHEAD UTILITY LINES:** LOCATION OF ABOVEGROUND UTILITY LINES ARE NOT SHOWN ON THE DRAWINGS. CONTRACTOR SHALL VISIT PROJECT SITE PRIOR TO BIDDING TO VERIFY OVERHEAD UTILITIES.

ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEMS ARE PROHIBITED.

THE CONTRACTOR SHALL FURNISH ALL MANHOLE FRAMES AND COVERS.

ALL FENCING DAMAGED BY SEWER CONSTRUCTION SHALL BE REPLACED IN KIND BY THE CONTRACTOR AND ALL ASSOCIATED COSTS SHOULD BE INCLUDED WITH VARIOUS CONTRACT ITEMS.

ALL ATU AND COLLECTOR/STORM TO REMAIN IN SERVICE.

BENCH MARKS:

BM #1:  
HAMILTON COUNTY/CITY OF CINCINNATI MONUMENTS  
HAMILTON COUNTY 2009, 2012, 2420, 4086, 8031, 8405  
CITY OF CINCINNATI MONUMENT 6913

DESIGN EXCEPTION

SLOPE OF 0.40% IS EXCEPTION TO THE MSDGC STANDARD OF 0.70%  
0.40% MEETS THE MINIMUM SLOPE FOR THE 10 STATE STANDARDS.

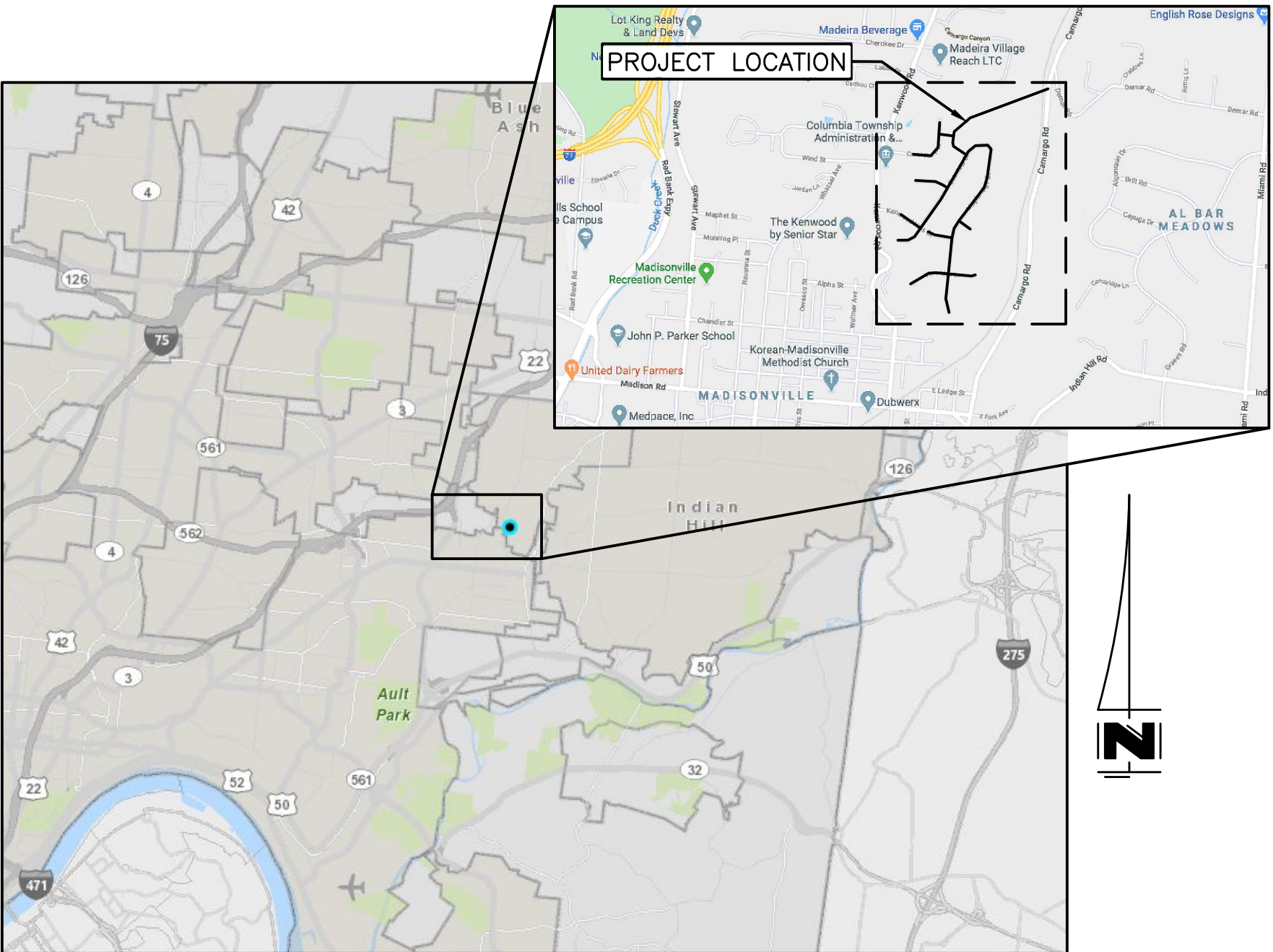
FOR A SERVICE CONNECTION TO A LOW PRESSURE FORCE MAIN THE CONTRACTOR FOLLOW STANDARD DRAWING ACCESSION # 49069 STANDARD BUILDING CONNECTION TO A LOW PRESSURE FORCE MAIN EXCEPT THE CONTRACTOR SHALL DISREGARD THE "5'0" MAX." COVER DIMENSION.

DATUM:

HORIZONTAL: NAD 83  
VERTICAL: NGVD 29



ENGINEERS SEAL



VICINITY MAP

NO SCALE

SUBJECT TO REVISION

STANDARDS:  
(SEE MSDGC STANDARD DRAWINGS)

DESCRIPTION

|                                                           |                |
|-----------------------------------------------------------|----------------|
| STANDARD DROP MANHOLE                                     | 49003          |
| TYPICAL INVERTS                                           | 49004          |
| STANDARD CASTINGS FOR MANHOLES                            | 49005          |
| STANDARD CONCRETE COLLARS ON CONDUITS                     | 49031          |
| CONTROL DIMENSIONS FOR TYPICAL TRENCHES FOR CONDUITS      | 49032          |
| TYPICAL BUILDING SEWERS AND STACKS                        | 49033          |
| STANDARD, (TYPE "S") MANHOLE                              | 49037          |
| STANDARD CONCRETE CRADLE AND ENCASEMENT                   | 49044          |
| STANDARD MANHOLE FOR SANITARY CONDUITS ON STEEP SLOPE     | 49046          |
| MODIFIED, (TYPE "S") MANHOLE                              | 49049          |
| WATERTIGHT MANHOLE                                        | 49051          |
| STANDARD PRECAST CONCRETE MANHOLE BASE                    | 49056          |
| TYPICAL INSTALLATION OF BUILDING SEWER LATERAL            | 49060          |
| LOW PRESSURE FORCE MAIN TYPICAL RECEIVING MANHOLE         | 49063          |
| STANDARD BUILDING CONNECTION TO A LOW PRESSURE FORCE MAIN | 49069          |
| STANDARD SYMBOLS                                          | 49072 TO 49076 |
| STANDARD TWO WAY CLEANOUT FOR BUILDING SEWERS             | 61979          |
| STANDARD CASTINGS OVER TWO WAY CLEANOUT                   | 61979-A        |
| 1" TO 2-1/2" LPFM TERMINAL FLUSHING CHAMBER DETAIL        | LPFM24         |
| 1" TO 2-1/2" LPFM AIR RELIEF CHAMBER                      | LPFM30         |

ACCESSION NO.

CONTENTS:

SHEET NO.

|       |                              |
|-------|------------------------------|
| 1     | TITLE SHEET                  |
| 2     | SHEET INDEX                  |
| 3-31  | PLAN AND PROFILES            |
| 32-33 | PROJECT DETAILS AND CONTACTS |
| 34    | RAILROAD EASEMENT            |

DESCRIPTION



SUBMITTED: *Reese P. Johnson*  
CHIEF ENGINEER  
APPROVED: *Diana Christy*  
DIRECTOR OF SEWERS  
DATE: 4/1/2025

DESIGNED BY:GEW  
DRAWN BY:GAU

ACAD DRAWING NAME:MSD-TITLE.DWG

ACC. NO. 78230

SHEET 1 OF 34

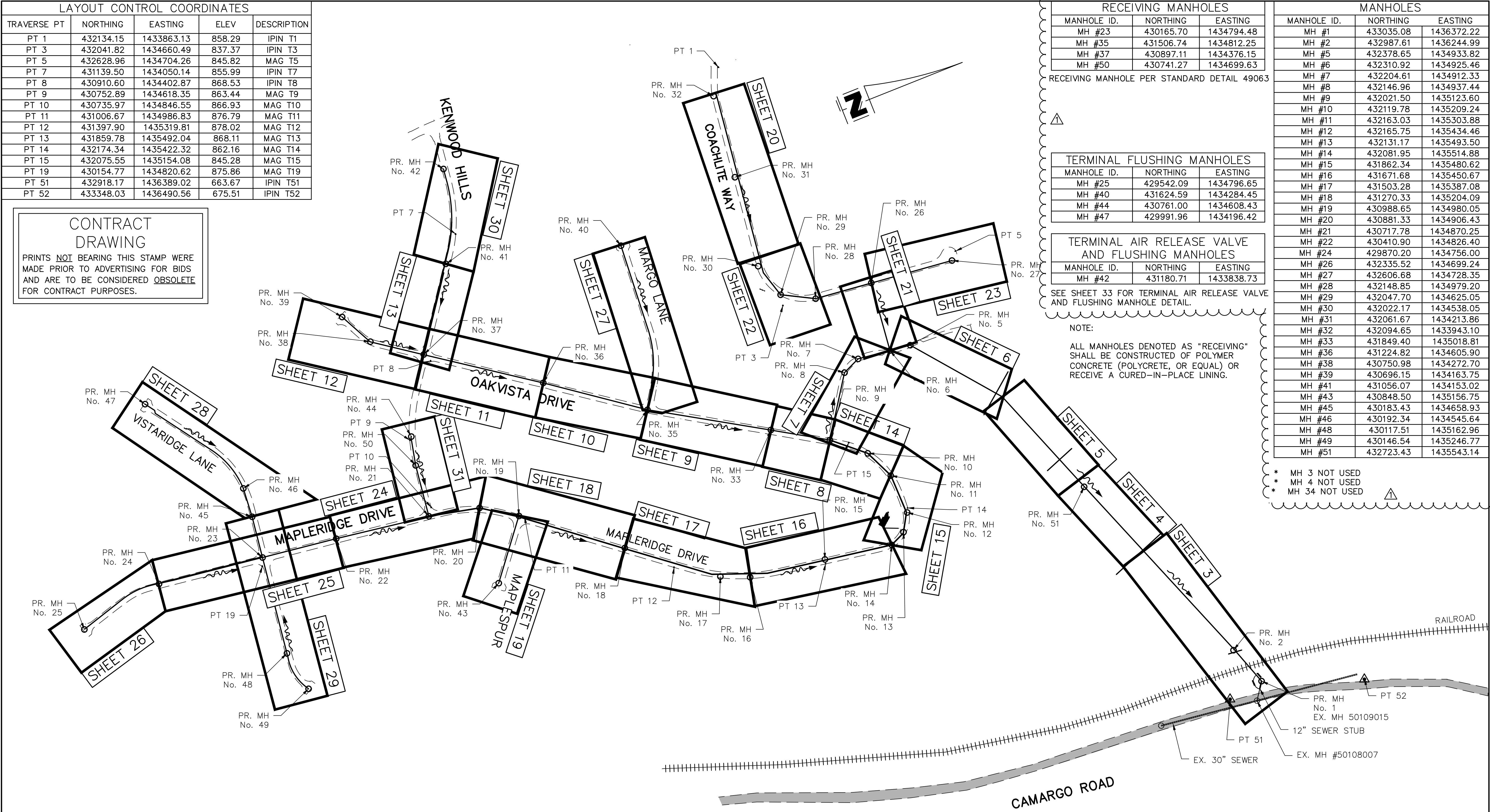
SS# 5933



| LAYOUT CONTROL COORDINATES |           |            |        |             |
|----------------------------|-----------|------------|--------|-------------|
| TRAVERSE PT                | NORTHING  | EASTING    | ELEV   | DESCRIPTION |
| PT 1                       | 432134.15 | 1433863.13 | 858.29 | IPIN T1     |
| PT 3                       | 432041.82 | 1434660.49 | 837.37 | IPIN T3     |
| PT 5                       | 432628.96 | 1434704.26 | 845.82 | MAG T5      |
| PT 7                       | 431139.50 | 1434050.14 | 855.99 | IPIN T7     |
| PT 8                       | 430910.60 | 1434402.87 | 868.53 | IPIN T8     |
| PT 9                       | 430752.89 | 1434618.35 | 863.44 | MAG T9      |
| PT 10                      | 430735.97 | 1434846.55 | 866.93 | MAG T10     |
| PT 11                      | 431006.67 | 1434986.83 | 876.79 | MAG T11     |
| PT 12                      | 431397.90 | 1435319.81 | 878.02 | MAG T12     |
| PT 13                      | 431859.78 | 1435492.04 | 868.11 | MAG T13     |
| PT 14                      | 432174.34 | 1435422.32 | 862.16 | MAG T14     |
| PT 15                      | 432075.55 | 1435154.08 | 845.28 | MAG T15     |
| PT 19                      | 430154.77 | 1434820.62 | 875.86 | MAG T19     |
| PT 51                      | 432918.17 | 1436389.02 | 663.67 | IPIN T51    |
| PT 52                      | 433348.03 | 1436490.56 | 675.51 | IPIN T52    |

CONTRACT  
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| RECEIVING MANHOLES |           |            |
|--------------------|-----------|------------|
| MANHOLE ID.        | NORTHING  | EASTING    |
| MH #23             | 430165.70 | 1434794.48 |
| MH #35             | 431506.74 | 1434812.25 |
| MH #37             | 430897.11 | 1434376.15 |
| MH #50             | 430741.27 | 1434699.63 |

RECEIVING MANHOLE PER STANDARD DETAIL 49063

| TERMINAL FLUSHING MANHOLES |           |            |
|----------------------------|-----------|------------|
| MANHOLE ID.                | NORTHING  | EASTING    |
| MH #25                     | 429542.09 | 1434796.65 |
| MH #40                     | 431624.59 | 1434284.45 |
| MH #44                     | 430761.00 | 1434608.43 |
| MH #47                     | 429991.96 | 1434196.42 |

| TERMINAL AIR RELEASE VALVE<br>AND FLUSHING MANHOLES |           |            |
|-----------------------------------------------------|-----------|------------|
| MANHOLE ID.                                         | NORTHING  | EASTING    |
| MH #42                                              | 431180.71 | 1433838.73 |

SEE SHEET 33 FOR TERMINAL AIR RELEASE VALVE  
AND FLUSHING MANHOLE DETAIL.

NOTE:

ALL MANHOLES DENOTED AS "RECEIVING"  
SHALL BE CONSTRUCTED OF POLYMER  
CONCRETE (POLYCRETE, OR EQUAL) OR  
RECEIVE A CURED-IN-PLACE LINING.

| MANHOLES    |           |            |
|-------------|-----------|------------|
| MANHOLE ID. | NORTHING  | EASTING    |
| MH #1       | 433035.08 | 1436372.22 |
| MH #2       | 432987.61 | 1436244.99 |
| MH #5       | 432378.65 | 1434933.82 |
| MH #6       | 432310.92 | 1434925.46 |
| MH #7       | 432204.61 | 1434912.33 |
| MH #8       | 432146.96 | 1434937.44 |
| MH #9       | 432021.50 | 1435123.60 |
| MH #10      | 432119.78 | 1435209.24 |
| MH #11      | 432163.03 | 1435303.88 |
| MH #12      | 432165.75 | 1435434.46 |
| MH #13      | 432131.17 | 1435493.50 |
| MH #14      | 432081.95 | 1435514.88 |
| MH #15      | 431862.34 | 1435480.62 |
| MH #16      | 431671.68 | 1435450.67 |
| MH #17      | 431503.28 | 1435387.08 |
| MH #18      | 431270.33 | 1435204.09 |
| MH #19      | 430988.65 | 1434980.05 |
| MH #20      | 430881.33 | 1434906.43 |
| MH #21      | 430717.78 | 1434870.25 |
| MH #22      | 430410.90 | 1434826.40 |
| MH #24      | 429870.20 | 1434756.00 |
| MH #26      | 432335.52 | 1434699.24 |
| MH #27      | 432606.68 | 1434728.35 |
| MH #28      | 432148.85 | 1434979.20 |
| MH #29      | 432047.70 | 1434625.05 |
| MH #30      | 432022.17 | 1434538.05 |
| MH #31      | 432061.67 | 1434213.86 |
| MH #32      | 432094.65 | 1433943.10 |
| MH #33      | 431849.40 | 1435018.81 |
| MH #36      | 431224.82 | 1434605.90 |
| MH #38      | 430750.98 | 1434272.70 |
| MH #39      | 430696.15 | 1434163.75 |
| MH #41      | 431056.07 | 1434153.02 |
| MH #43      | 430848.50 | 1435156.75 |
| MH #45      | 430183.43 | 1434658.93 |
| MH #46      | 430192.34 | 1434545.64 |
| MH #48      | 430117.51 | 1435162.96 |
| MH #49      | 430146.54 | 1435246.77 |
| MH #51      | 432723.43 | 1435543.14 |

- \* MH 3 NOT USED
- \* MH 4 NOT USED
- \* MH 34 NOT USED

| REVISIONS |            |              |  |
|-----------|------------|--------------|--|
| BY:       | DATE:      | DESCRIPTION: |  |
| RRM       | 11-11-2025 | RFI UPDATES  |  |
|           |            |              |  |
|           |            |              |  |
|           |            |              |  |
|           |            |              |  |



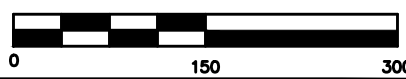
THE METROPOLITAN SEWER DISTRICT  
OF GREATER CINCINNATI  
HAMILTON COUNTY, OHIO



PROPOSED PROJECT NO. 10370025

FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM  
THE CUL-DE-SAC OF MAPLE RIDGE DR AND VISTA RIDGE DR TO THE CABANA CLUB DR ALONG  
COACHLITE

SCALE: HORIZ. 1"=150'



SHEET INDEX

SHEET INDEX

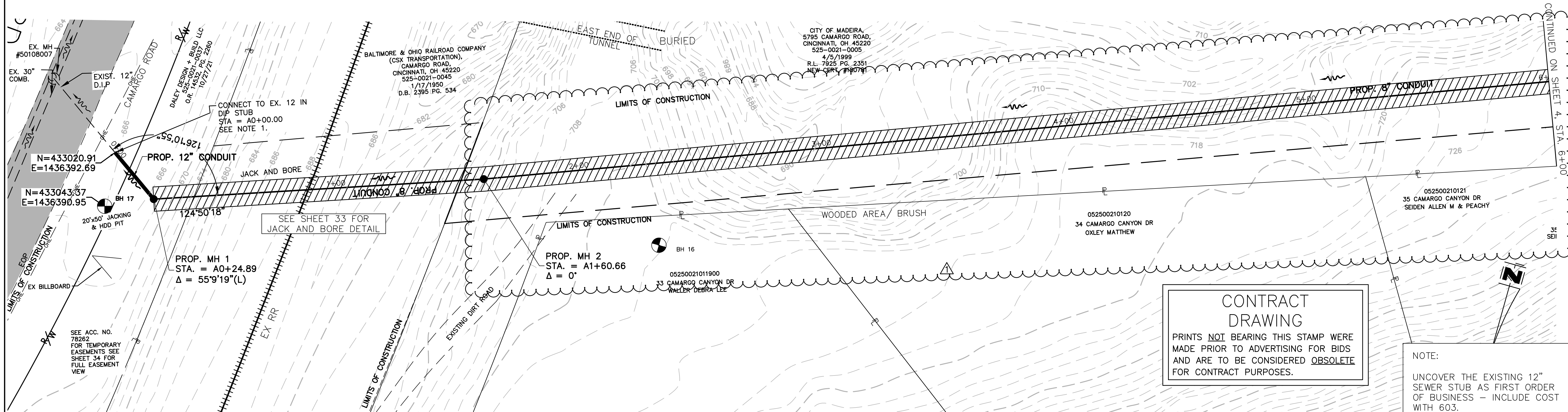
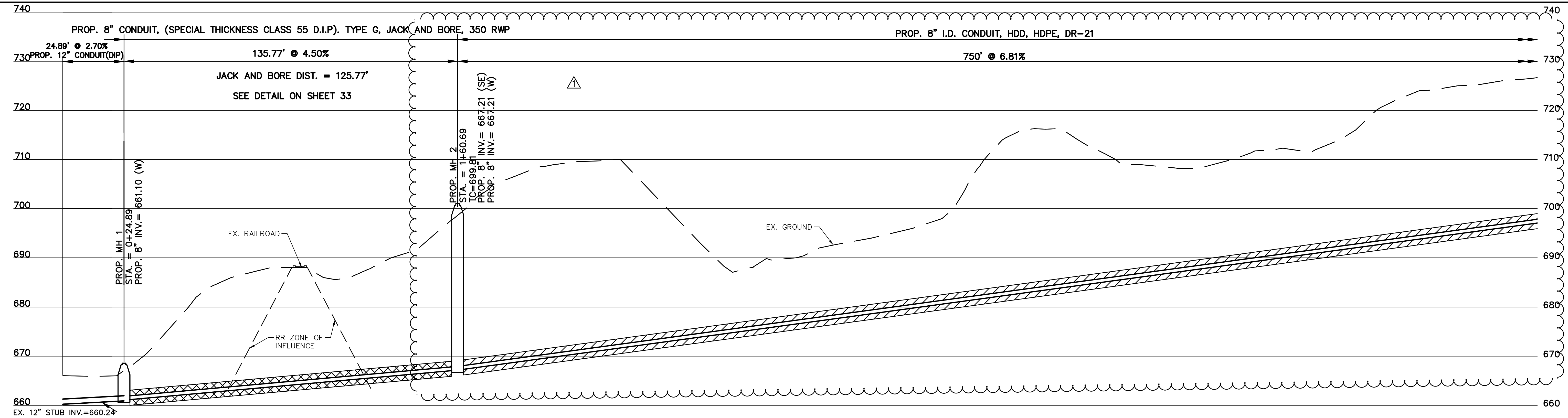
ACC. NO. 78231

SHEET 2 OF 34

SS# 5933



PATH: N:\JOBS\2018\18926 - KENWOOD HILLS LOCAL SEWER - JUNETO\WATER\_WASTEWATER\600 CAD\SSA\BASE\AS BUILT\KENWOOD HILLS BASEMAP\_AS BUILT.DWG  
DATE: Nov 13, 2025 - 09:38 AM  
PLOTTED BY: RMCLEAN



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DRAWING**  
PRINTS NOT BEARING THIS STAMP WERE  
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NOTE:  
UNCOVER THE EXISTING 12"  
SEWER STUB AS FIRST ORDER  
OF BUSINESS - INCLUDE COST  
WITH 603.

| REVISIONS |            |                                |  |
|-----------|------------|--------------------------------|--|
| BY:       | DATE:      | DESCRIPTION:                   |  |
| RRM       | 11-11-2025 | RFI UPDATES RFI#1-Deleted MH#3 |  |
|           |            |                                |  |
|           |            |                                |  |
|           |            |                                |  |
|           |            |                                |  |
|           |            |                                |  |

|                  |       |
|------------------|-------|
| DESIGNED BY: GEW | BY:   |
| DRAWN BY: GAU    | DATE: |
|                  |       |
|                  |       |
|                  |       |
|                  |       |
|                  |       |
|                  |       |



THE METROPOLITAN SEWER DISTRICT  
OF GREATER CINCINNATI  
HAMILTON COUNTY, OHIO



MSD  
WASTEWATER  
ENGINEERING

**PROPOSED PROJECT NO. 10370025**  
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COACHLITE

SCALE: HORIZ. 1"=20'  
VERT. 1"=10'

**MH 1 TO MH 2**

**PLAN AND PROFILE**

ACC. NO. **78232**

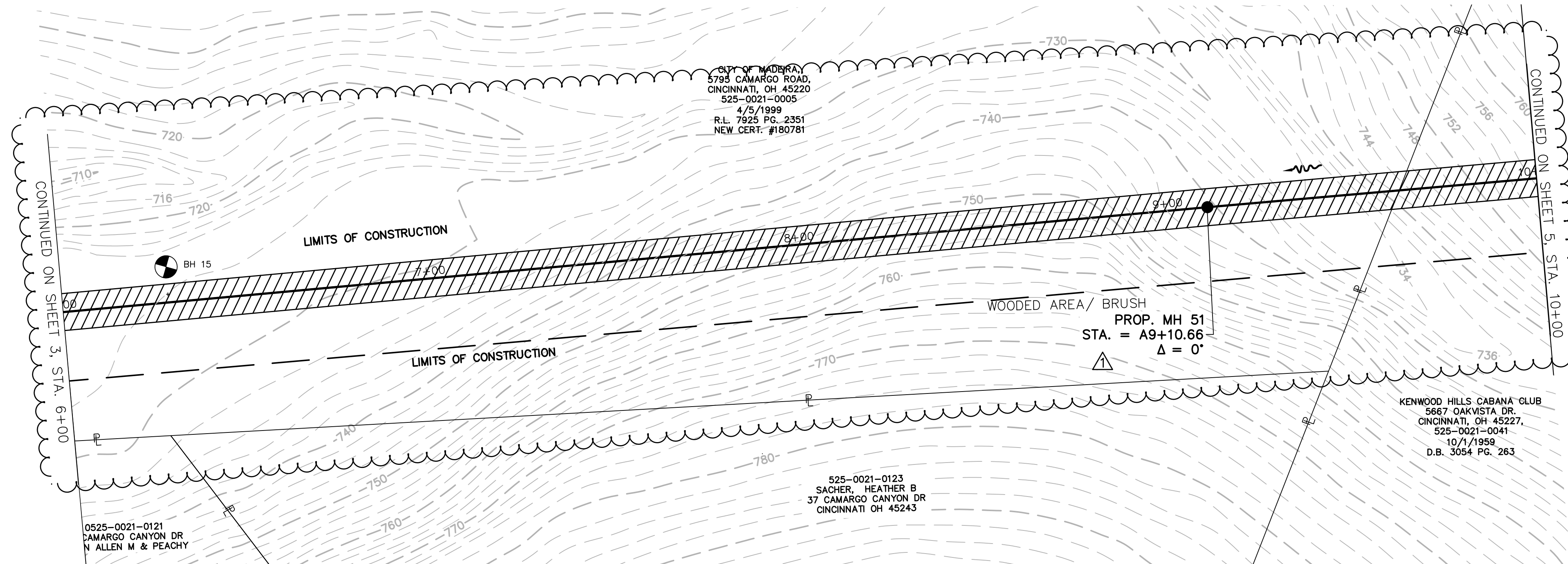
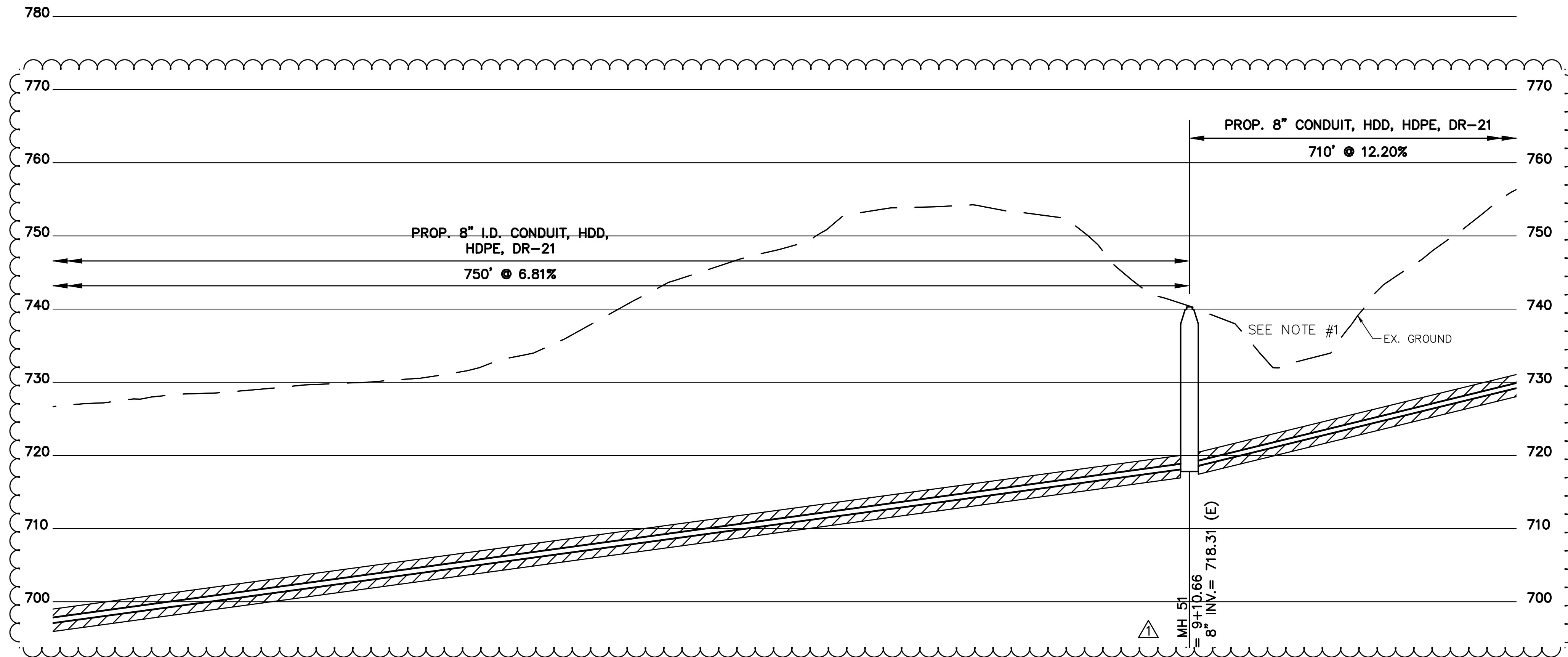
SHEET **3** OF **34**

SS# 5933



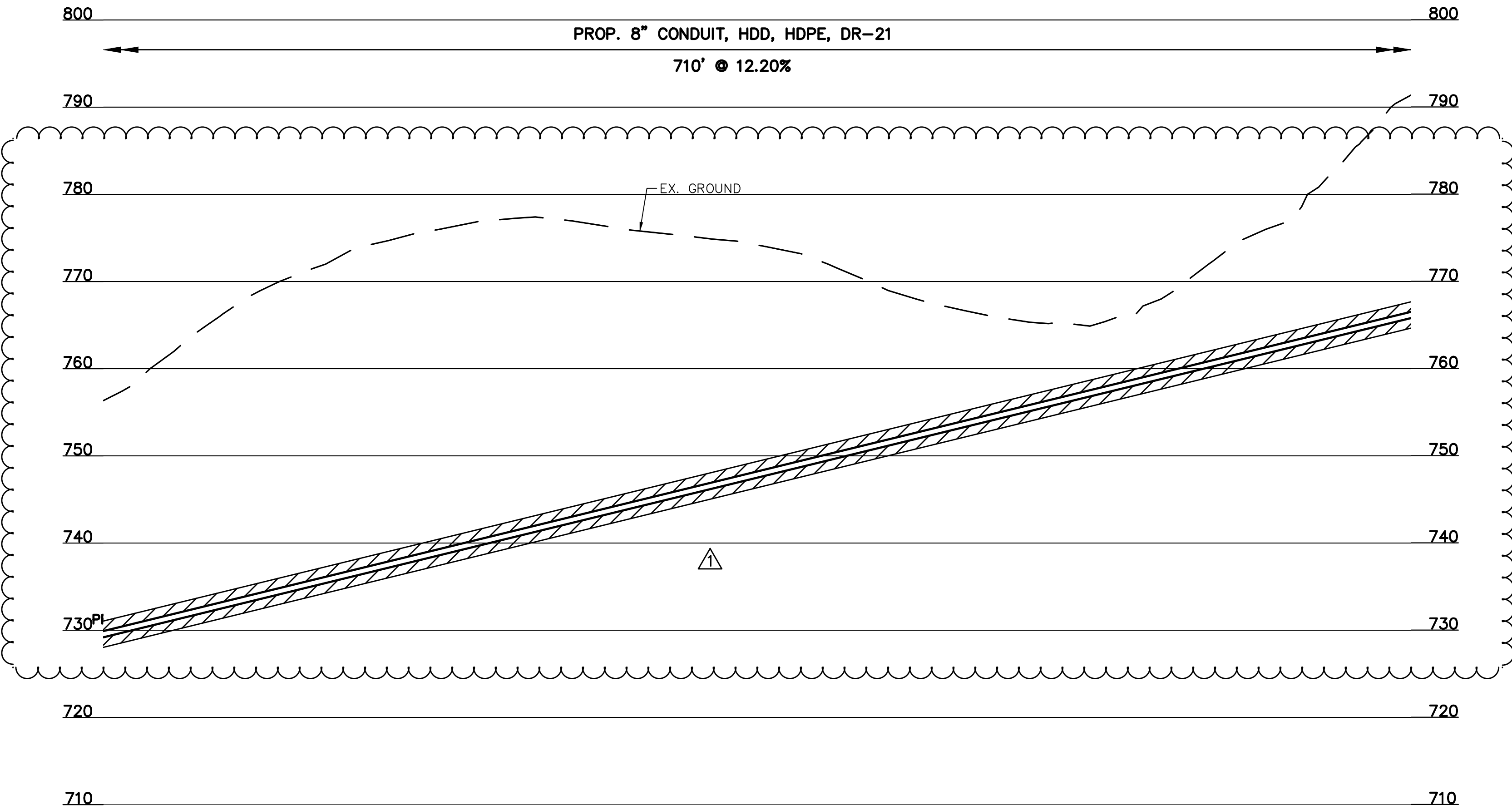
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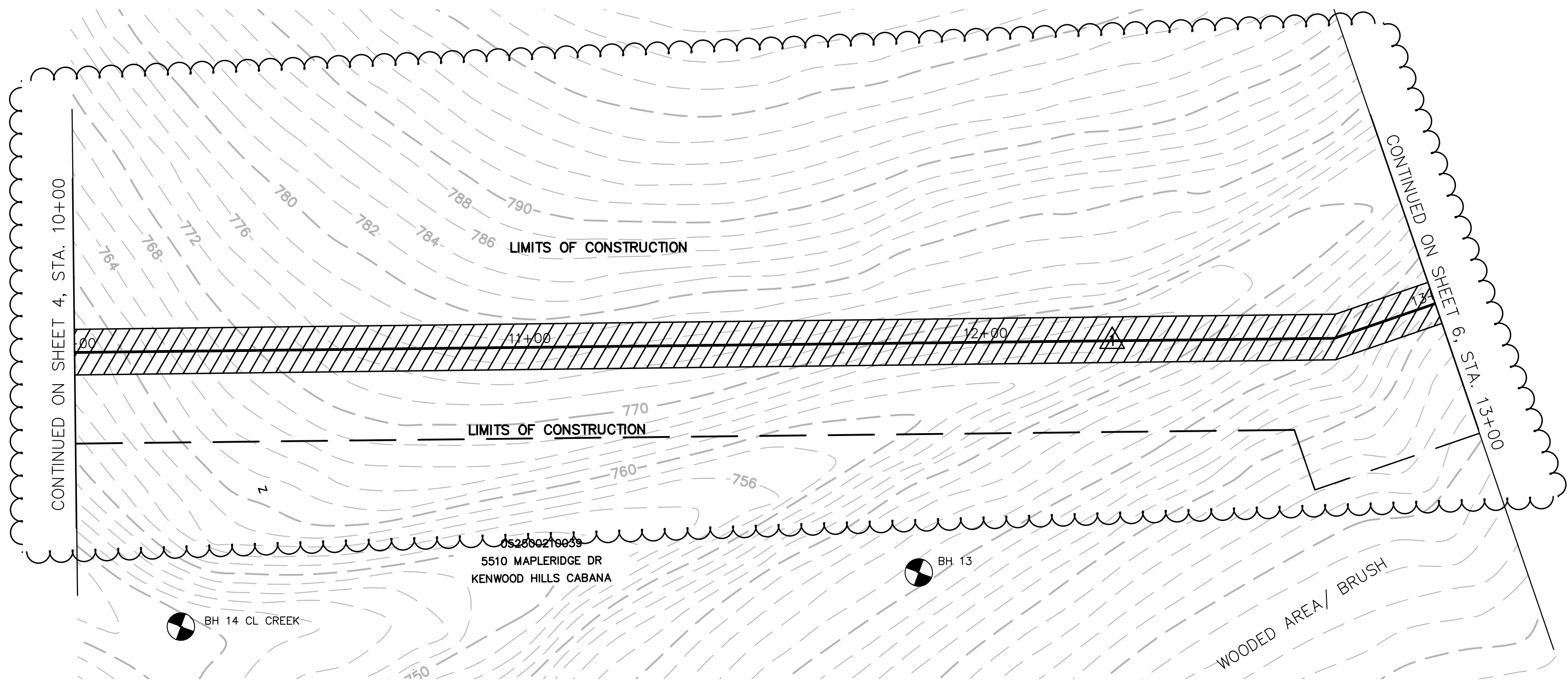


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DATE: Nov 13, 2025 - 09:38 AM  
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| REVISIONS |            |                                        |  |
|-----------|------------|----------------------------------------|--|
| BY:       | DATE:      | DESCRIPTION:                           |  |
| RRM       | 11-11-2025 | RFI UPDATES                            |  |
|           |            | RFI#1-Deleted MH#4 and Relocated MH#51 |  |
|           |            |                                        |  |
|           |            |                                        |  |
|           |            |                                        |  |
|           |            |                                        |  |



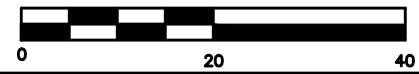
THE METROPOLITAN SEWER DISTRICT  
OF GREATER CINCINNATI  
HAMILTON COUNTY, OHIO



PROPOSED PROJECT NO. 10370025

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COACHLITE

SCALE: HORIZ. 1"=20'  
VERT. 1"=10'



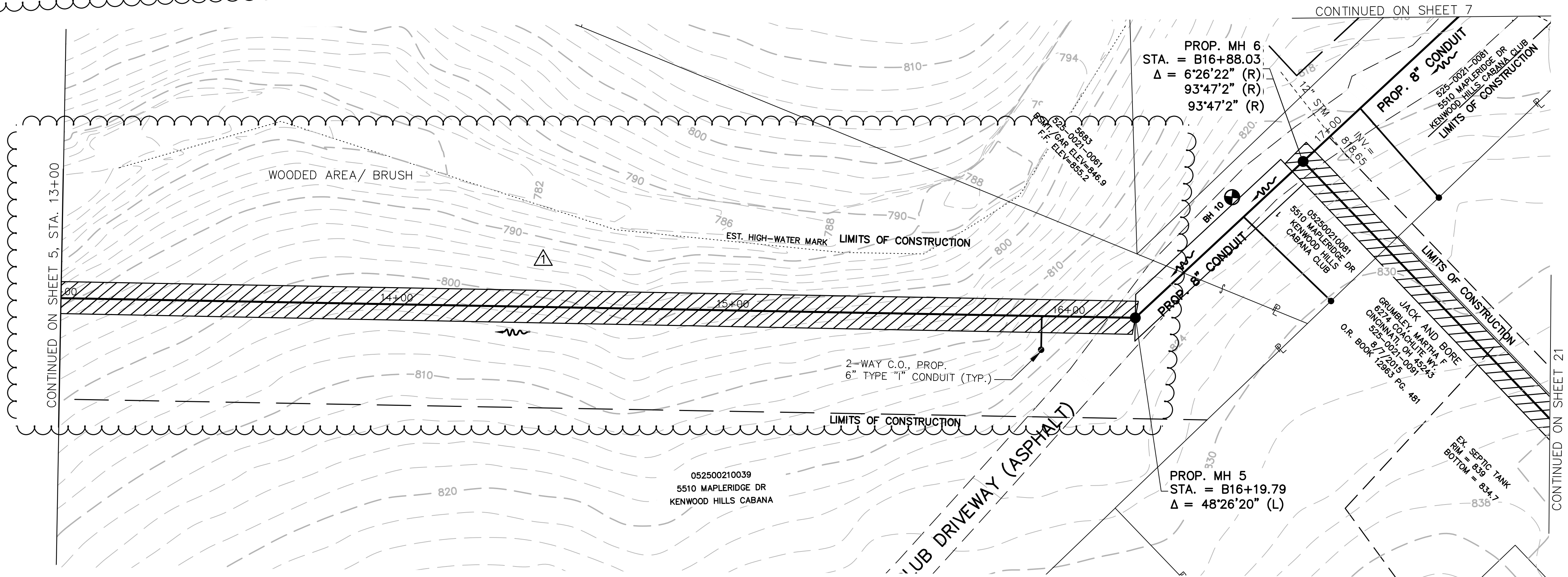
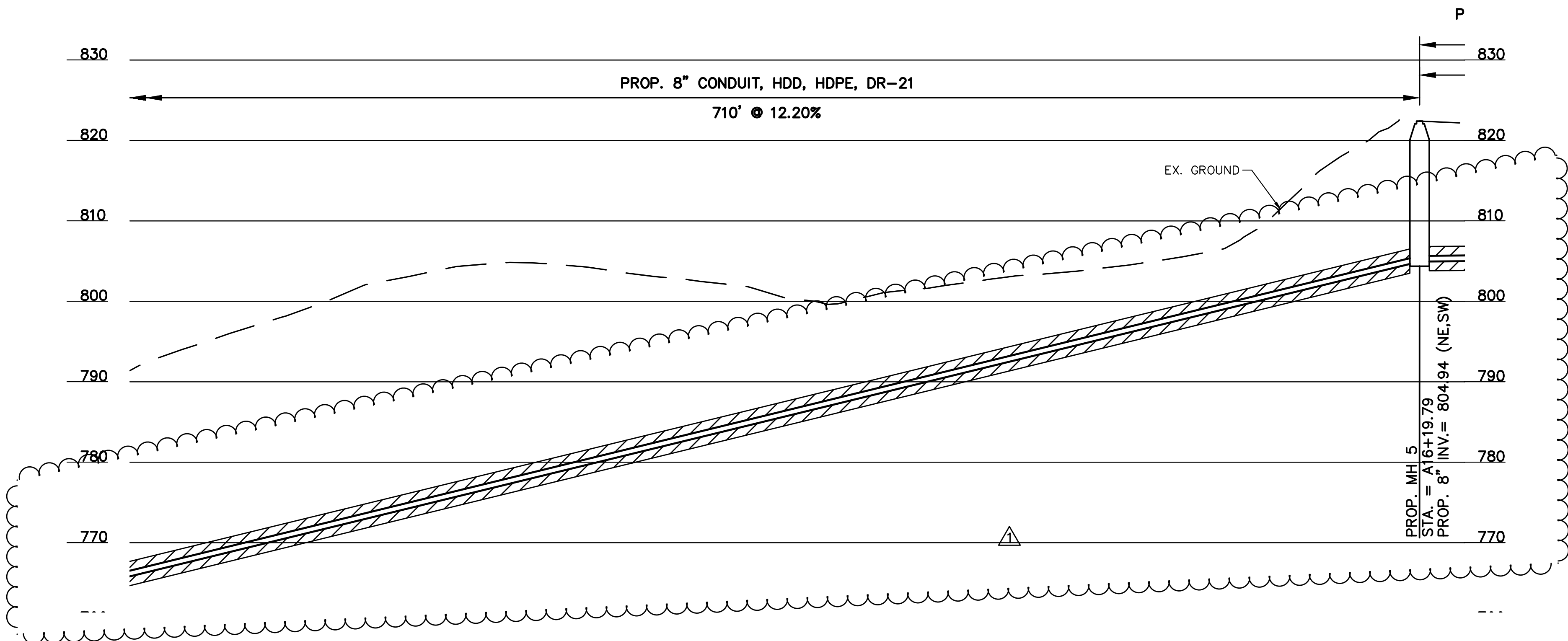
MH 51 TO MH 5

PLAN AND PROFILE



CONTRACT  
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| DESIGNED BY: GEW |            |                                             |  |
|------------------|------------|---------------------------------------------|--|
| DRAWN BY: GAU    |            |                                             |  |
| BY:              | DATE:      | REVISIONS                                   |  |
| RRM              | 11-11-2025 | RFI UPDATES                                 |  |
|                  |            | RFI#1-Deleted MH#4 and MH#5 inverts changed |  |
|                  |            |                                             |  |
|                  |            |                                             |  |
|                  |            |                                             |  |
|                  |            |                                             |  |



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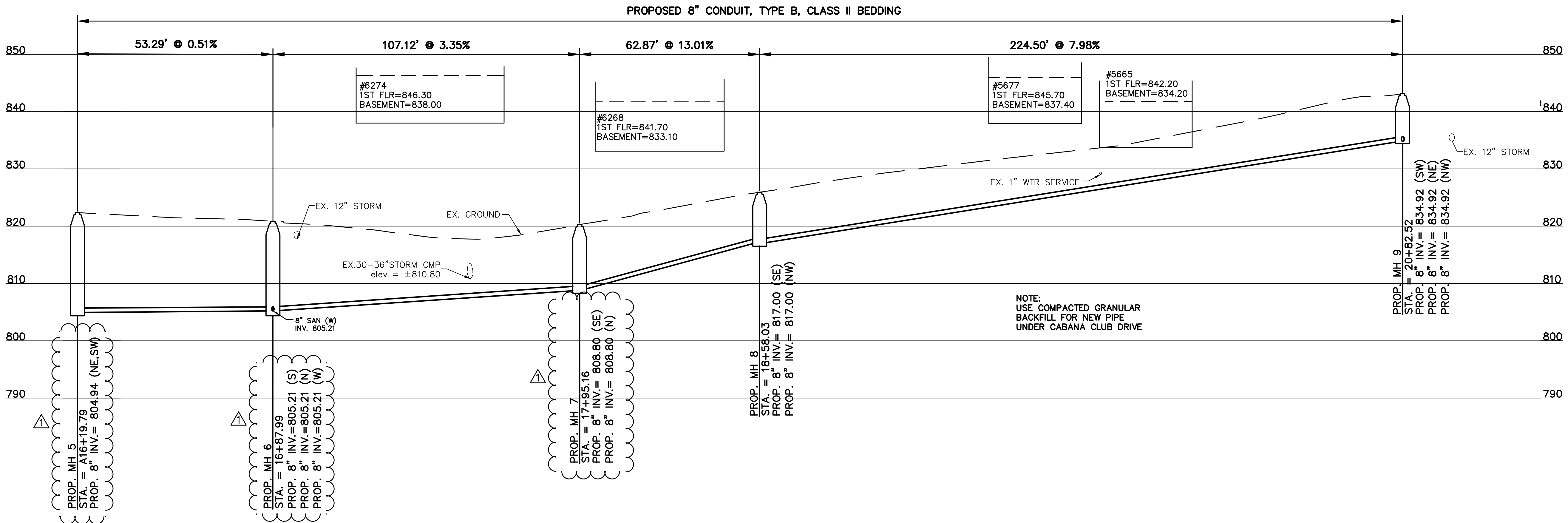
SCALE: HORIZ. 1"=20'  
VERT. 1"=10'



CABANA CLUB DRIVE

PLAN AND PROFILE

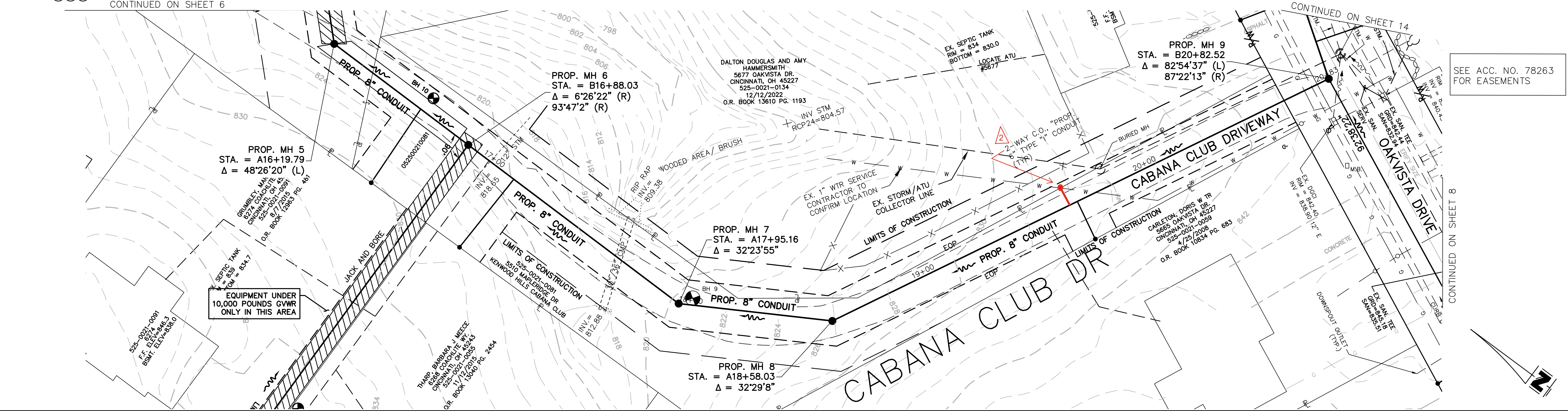




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NOTE:  
FULL DEPTH PAVEMENT REPAIR ON  
CABANA DRIVE.



| REVISIONS     |     |            |                                             |
|---------------|-----|------------|---------------------------------------------|
| DESIGNED BY:  | BY: | DATE:      | DESCRIPTION:                                |
| GEW           | RRM | 11-11-2025 | RFI UPDATES RFI#1, MH5-MH#7 changed inverts |
| DRAWN BY: GAU | DEA | 11-14-2025 | 2 Relocated 5677 Oakvista C.O.              |
|               |     |            |                                             |
|               |     |            |                                             |
|               |     |            |                                             |
|               |     |            |                                             |



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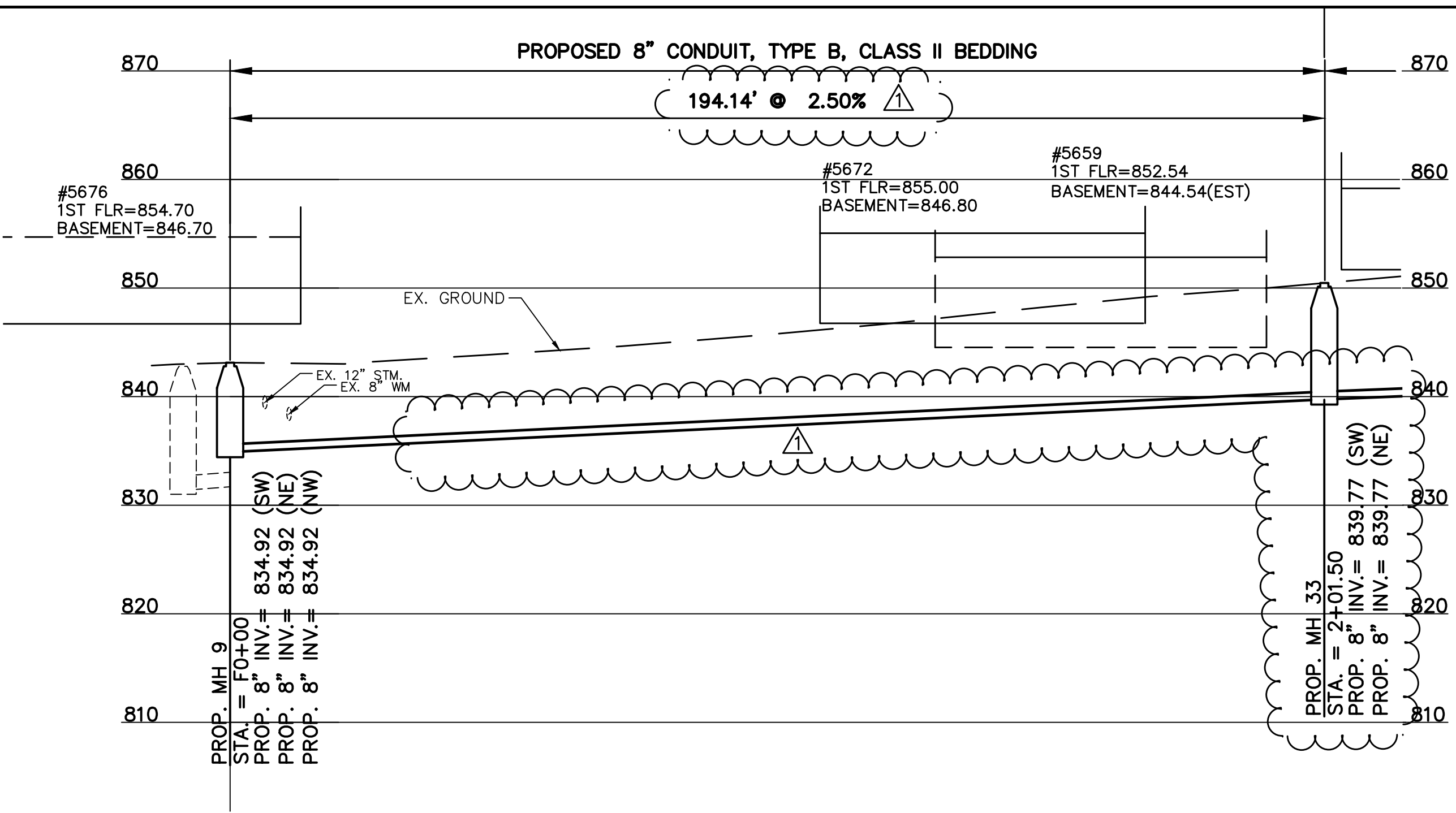
SCALE: HORIZ. 1"=20'  
VERT. 1"=10'

CABANA CLUB DRIVE

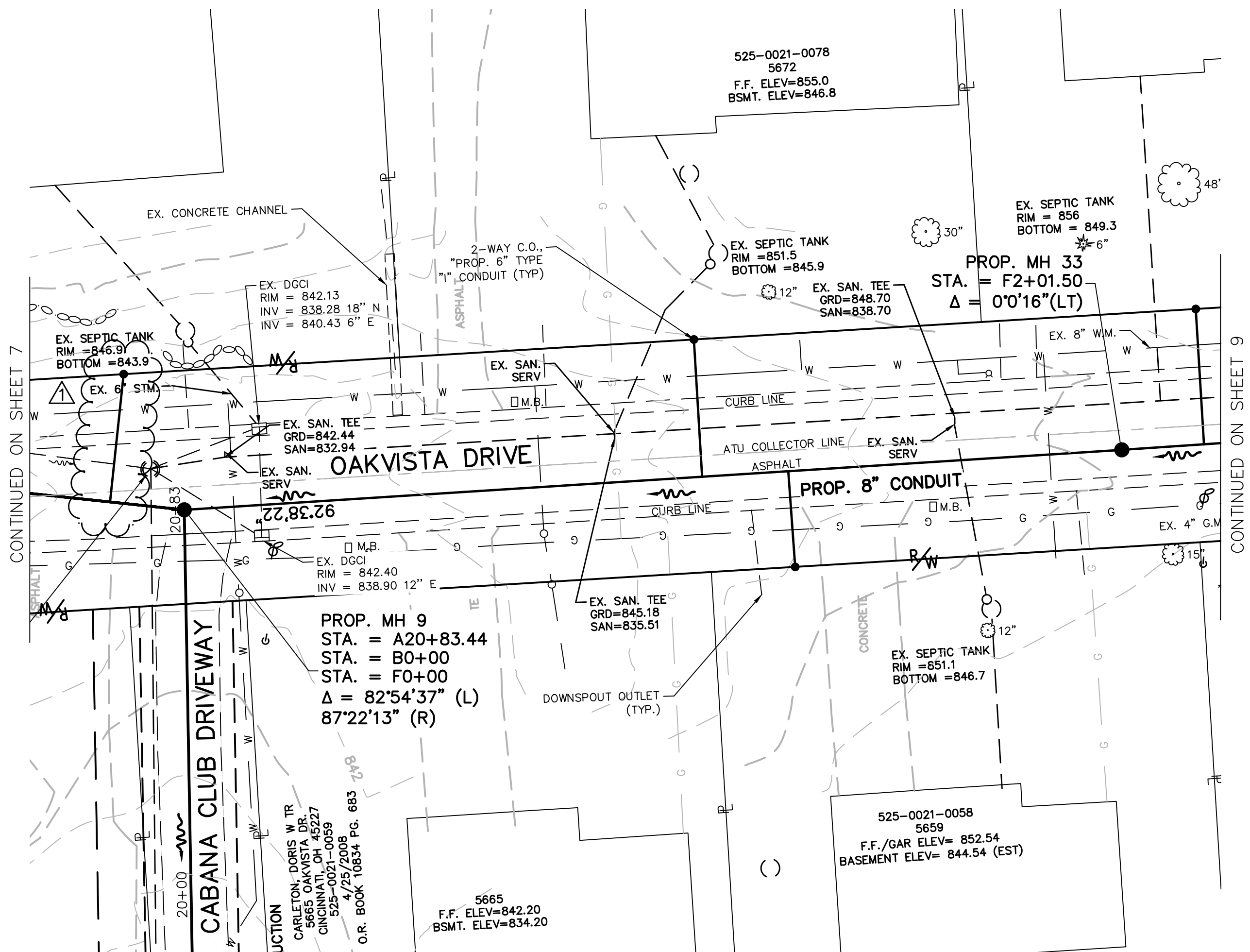
PLAN AND PROFILE



PATH: N:\JOBS\2018\18926 - KENWOOD HILLS LOCAL SEWER - JUNETO\WATER\_WASTEWATER\600 CAD\SSA\BASE\AS BUILT\KENWOOD HILLS BASEMAP\_AS BUILT.DWG  
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NOTE:  
OAKVISTA DRIVE REQUIRES  
FULL WIDTH MILL AND PAVE.

| DESIGNED BY: GEW |            |                                                            |  |
|------------------|------------|------------------------------------------------------------|--|
| BY:              | DATE:      | REVISIONS                                                  |  |
| RRM              | 11-11-2025 | RFI UPDATES                                                |  |
|                  |            | RFI#7- MH#33 inverts changed, relocated 5676 Oakvista C.D. |  |
|                  |            |                                                            |  |
|                  |            |                                                            |  |
|                  |            |                                                            |  |
|                  |            |                                                            |  |
|                  |            |                                                            |  |



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OAKVIST DRIVE

PLAN AND PROFILE

ACC. NO. 78236

SHEET 8 OF 34

SS# 5933



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**DYNOTEC**



**MSD**  
**WASTEWATER  
ENGINEERING**

SHEET 9 OF 34

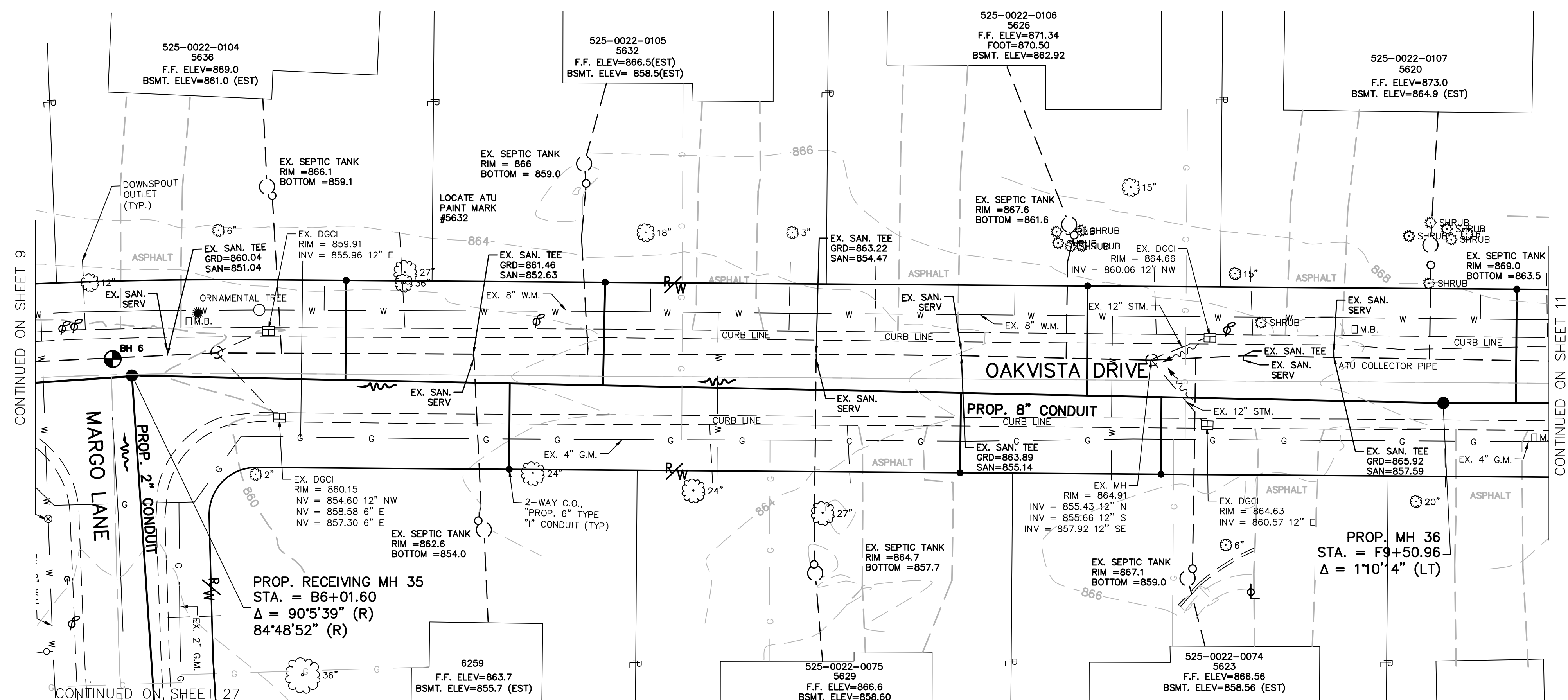
SS# 5933

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PATH: N:\JOBS\2018\18926 - KENWOOD HILLS LOCAL SEWER - JUNE\10 WATER\_WASTE\WATER\600 CAD\SSM\BASE\AS BUILT\KENWOOD HILLS BASEMAP\_AS BUILT.DWG  
DATE: Nov 13, 2025 - 09:38 AM  
PLOTTED BY: RM/CLEAN



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**DYNOTEC**



MSD  
WASTEWATER  
ENGINEERING

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VERT. 1"=10'



SHEET 10 OF 34

SS# 5933



PATH: N:\085\2018\18926 - KENWOOD HILLS LOCAL SEWER - JUNE10\WATER\_WASTEWATER\600 CAD\SSA\BASE\AS BUILT\KENWOOD HILLS BASEMAP\_AS BUILT.DWG  
DATE: Nov 13, 2025 - 09:38 AM  
PLOTTED BY: RMCLEAN

DESIGNED BY: GEW  
DRAWN BY: GAU

| REVISIONS |            |                                          |  |
|-----------|------------|------------------------------------------|--|
| BY:       | DATE:      | DESCRIPTION:                             |  |
| RRM       | 11-11-2025 | RFI UPDATES relocated 5605 Oakvista C.O. |  |
|           |            |                                          |  |
|           |            |                                          |  |
|           |            |                                          |  |
|           |            |                                          |  |



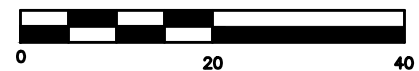
THE METROPOLITAN SEWER DISTRICT  
OF GREATER CINCINNATI  
HAMILTON COUNTY, OHIO



## PROPOSED PROJECT NO. 10370025

FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM  
THE CUL-DE-SAC OF MAPLE RIDGE DR AND VISTA RIDGE DR TO THE CABANA CLUB DR ALONG  
COACHLITE

SCALE: HORIZ. 1"=20'  
VERT. 1"=10'



OAKVISTA DR AT MARGO LANE

PLAN AND PROFILE

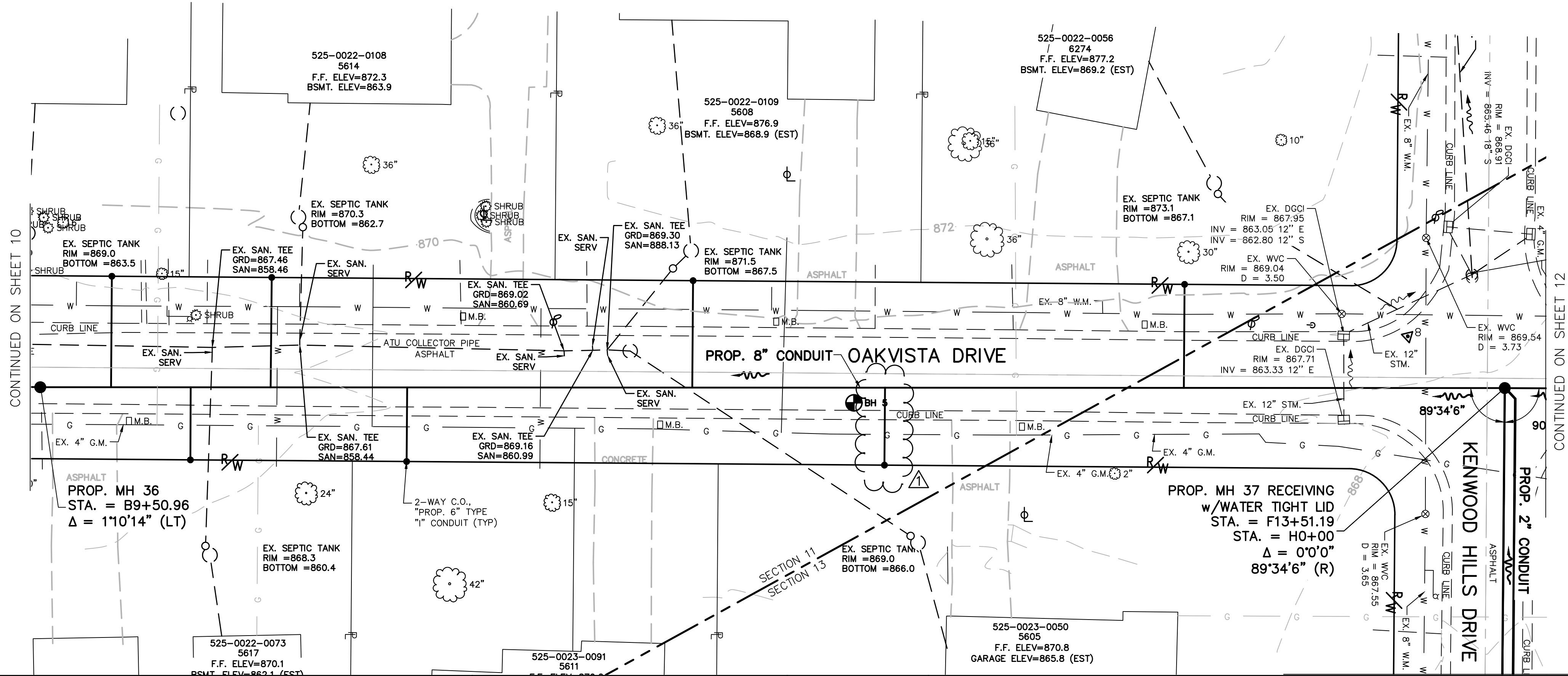
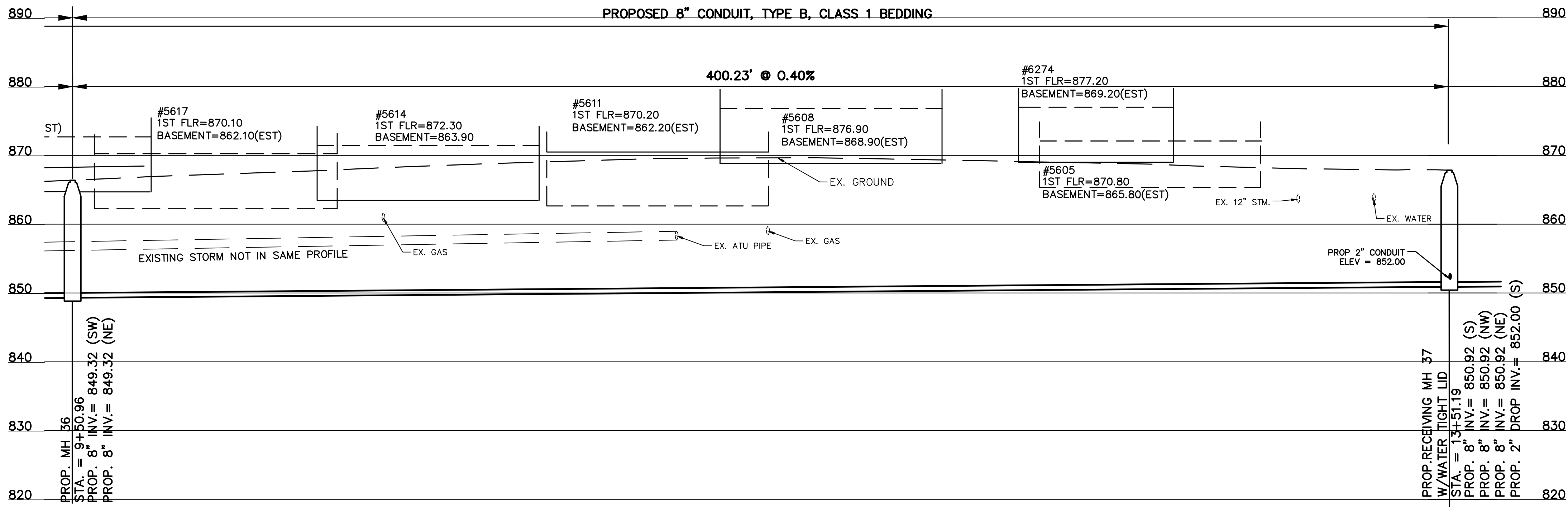
ACC. NO. 78238a

SHEET 11 OF 34

SS# 5933

CONTRACT  
DRAWING

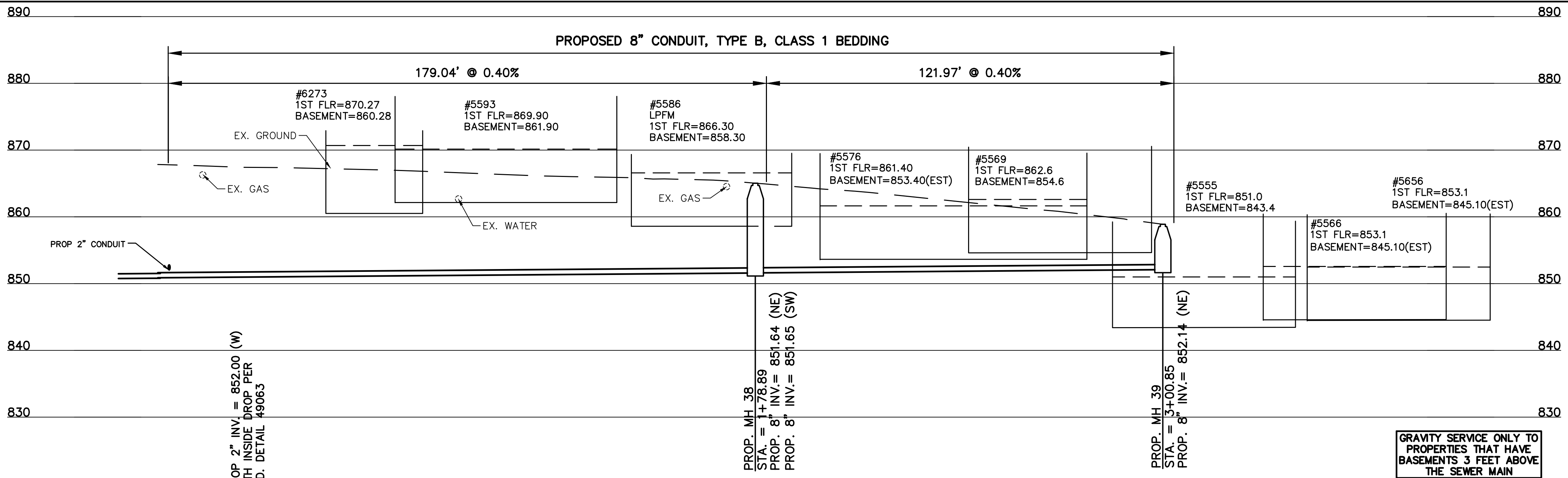
PRINTS NOT BEARING THIS STAMP WERE  
MADE PRIOR TO ADVERTISING FOR BIDS  
AND ARE TO BE CONSIDERED OBSOLETE  
FOR CONTRACT PURPOSES.



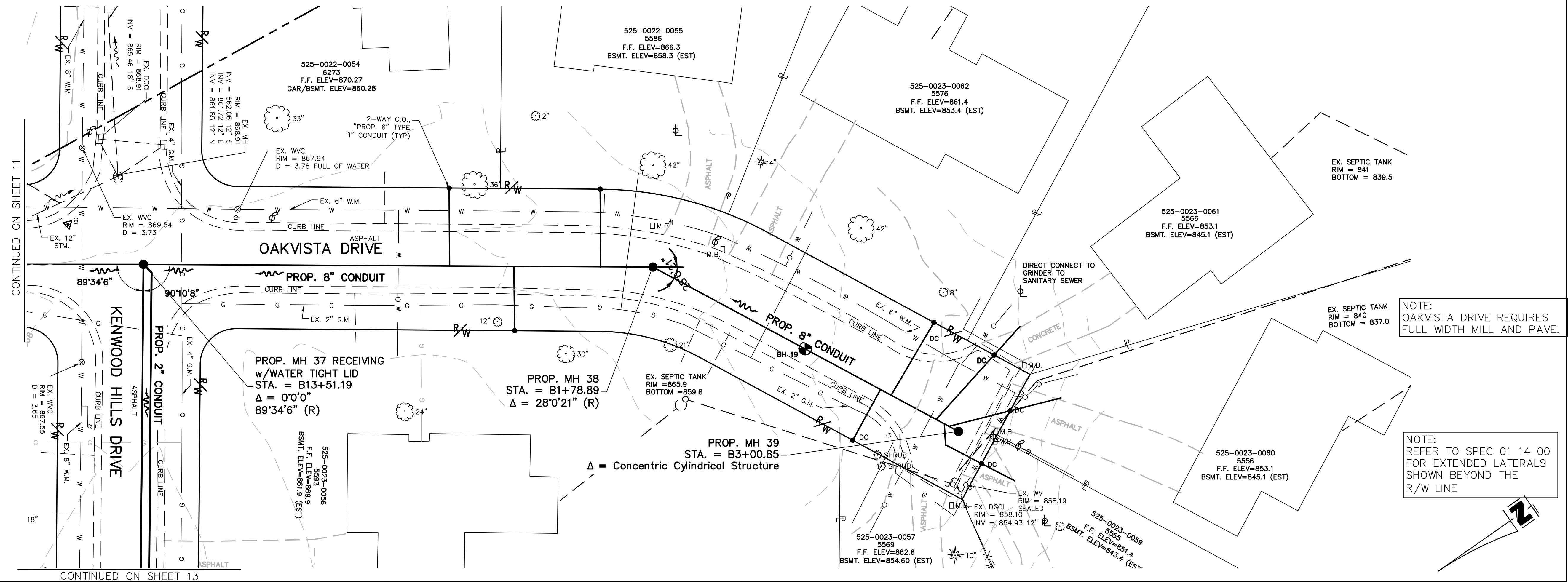
NOTE:  
OAKVISTA DRIVE REQUIRES  
FULL WIDTH MILL AND PAVE.



PATH: N:\085\2018\18926 - KENWOOD HILLS LOCAL SEWER - JUNE10\WATER\_WASTEWATER\600 CAD\SSA\BASE\AS BUILT\KENWOOD HILLS BASEMAP\_AS BUILT.DWG  
DATE: Nov 13, 2025 - 09:38 AM  
PLOT BY: RMCLEAN



**CONTRACT  
DRAWING**  
PRINTS NOT BEARING THIS STAMP WERE  
MADE PRIOR TO ADVERTISING FOR BIDS  
AND ARE TO BE CONSIDERED **OBSOLETE**  
FOR CONTRACT PURPOSES.



| REVISIONS |       |              |  |
|-----------|-------|--------------|--|
| BY:       | DATE: | DESCRIPTION: |  |
|           |       |              |  |
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|           |       |              |  |
|           |       |              |  |

|                  |       |
|------------------|-------|
| DESIGNED BY: GEW | BY:   |
| DRAWN BY: GAU    | DATE: |
|                  |       |
|                  |       |
|                  |       |
|                  |       |
|                  |       |
|                  |       |

THE METROPOLITAN SEWER DISTRICT  
OF GREATER CINCINNATI  
HAMILTON COUNTY, OHIO

WASTEWATER  
ENGINEERING

**PROPOSED PROJECT NO. 10370025**

FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM  
THE CUL-DE-SAC OF MAPLE RIDGE DR AND VISTA RIDGE DR TO THE CABANA CLUB DR ALONG  
COACHLITE

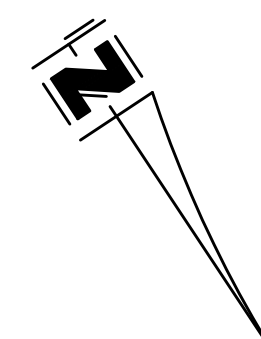
SCALE: HORIZ. 1"=20'  
VERT. 1"=10'

**OAKVISTA DRIVE**

**PLAN AND PROFILE**



PRINTS NOT BEARING THIS STAMP WERE  
MADE PRIOR TO ADVERTISING FOR BIDS  
AND ARE TO BE CONSIDERED OBSOLETE  
FOR CONTRACT PURPOSES.



**DYNOTEC**



**MSD**  
**WASTEWATER  
ENGINEERING**

SHEET 13 OF 34

SS# 5933

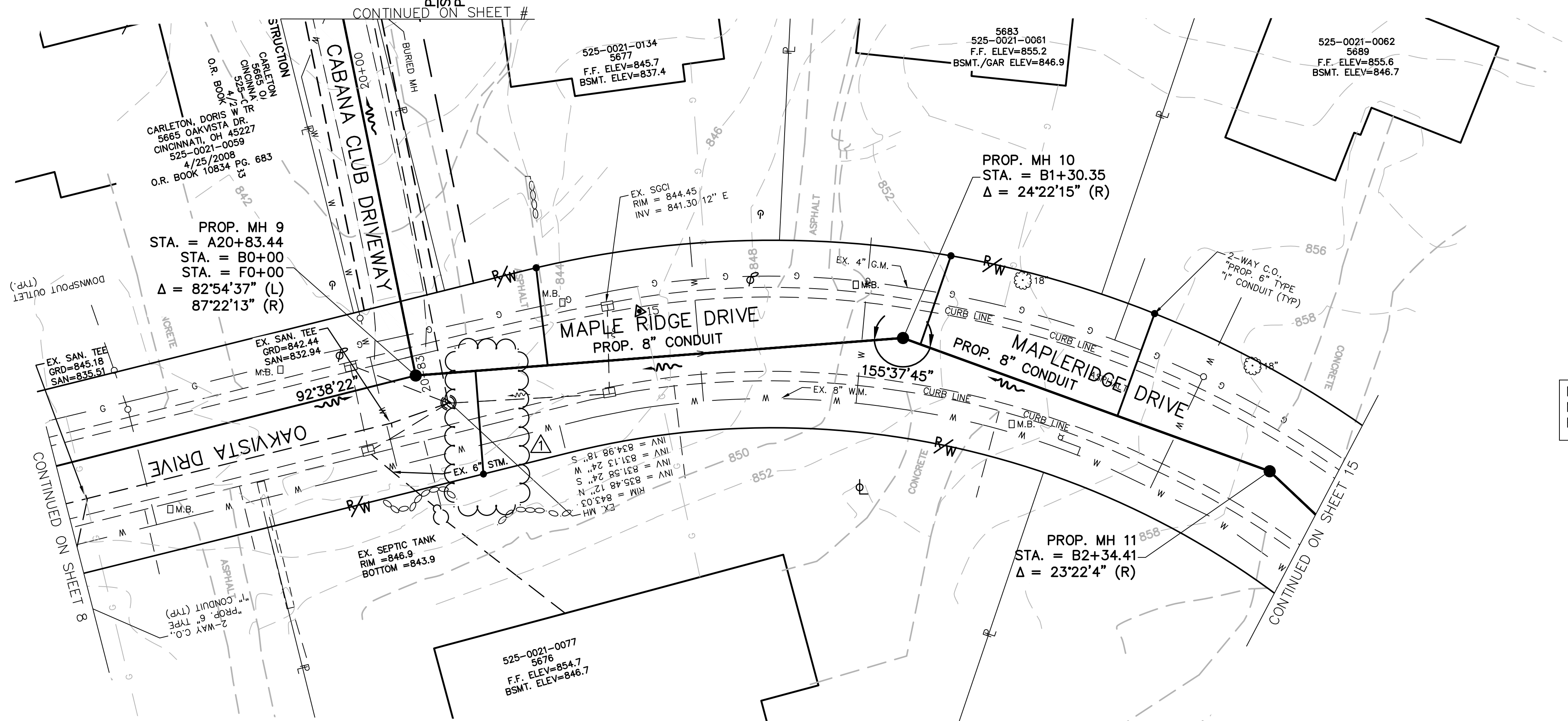
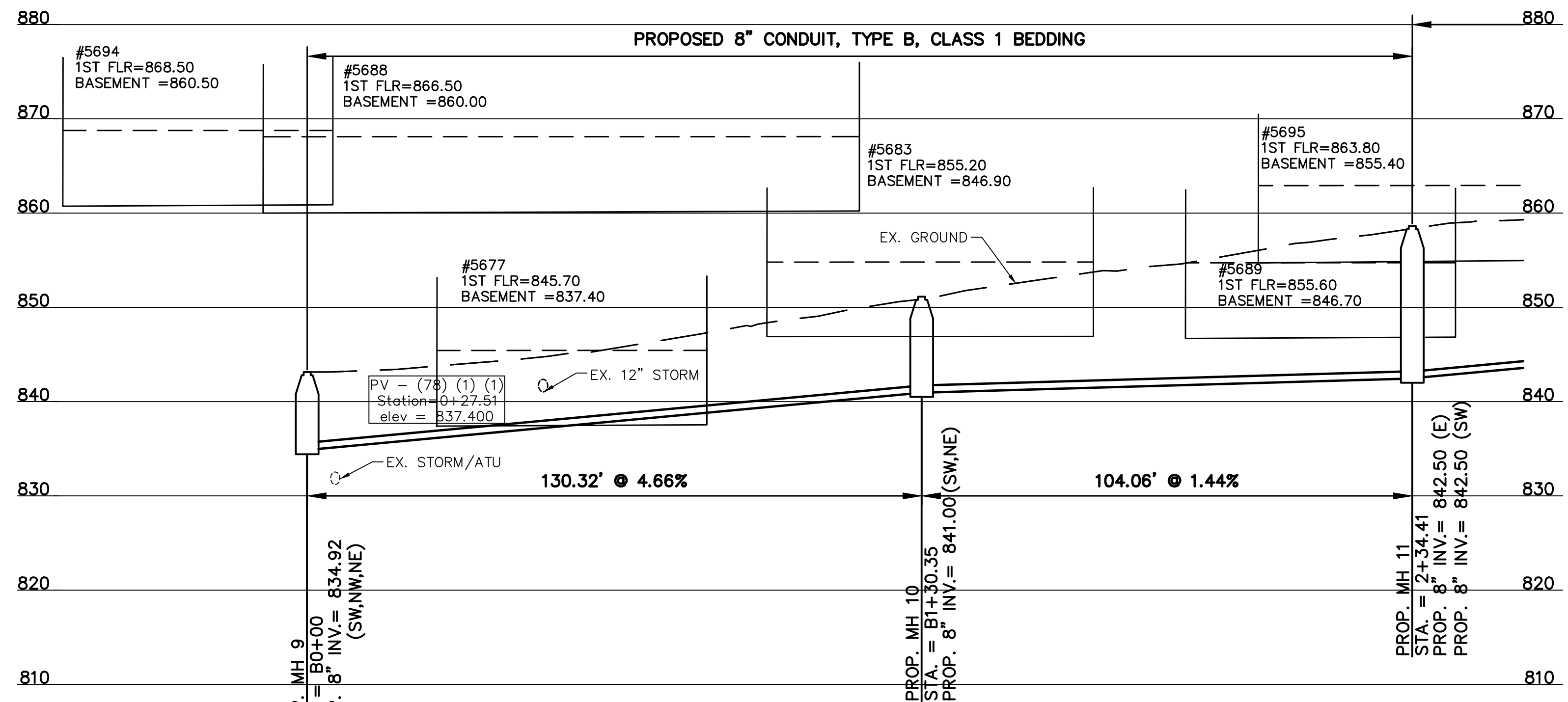
ACAD DRAWING NAME: KENWOOD HILLS BASEMAP\_AS BUILT.DWG

DEATH: N. JONES 2018 / 8926 - NEWWOOD HILLS LOCAL SEWER - JUNE 10 WATER WASTE WATER BUILT 1950 CAD 155M BASE VS BUILT NEWWOOD HILLS BASEMAP 155M BUILDING  
DATE: Nov 13, 2025 - 09:38 AM

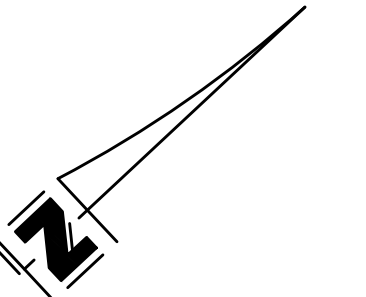


CONTRACT  
DRAWING

PRINTS NOT BEARING THIS STAMP WERE  
MADE PRIOR TO ADVERTISING FOR BIDS  
AND ARE TO BE CONSIDERED OBSOLETE  
FOR CONTRACT PURPOSES.



NOTE:  
MAPLE RIDGE DRIVE REQUIRES  
FULL WIDTH MILL AND PAVE.



| REVISIONS |            |                                          |  |
|-----------|------------|------------------------------------------|--|
| BY:       | DATE:      | DESCRIPTION:                             |  |
| RRM       | 11-11-2025 | RFI UPDATES                              |  |
|           |            | Relocated MH#41, MH#37 changed FM invert |  |
|           |            |                                          |  |
|           |            |                                          |  |
|           |            |                                          |  |
|           |            |                                          |  |



THE METROPOLITAN SEWER DISTRICT  
OF GREATER CINCINNATI  
HAMILTON COUNTY, OHIO



**PROPOSED PROJECT NO. 10370025**  
FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM  
THE CUL-DE-SAC OF MAPLE RIDGE DR AND VISTA RIDGE DR TO THE CABANA CLUB DR ALONG  
COACHLITE  
SCALE: HORIZ. 1"=20'  
VERT. 1"=10'

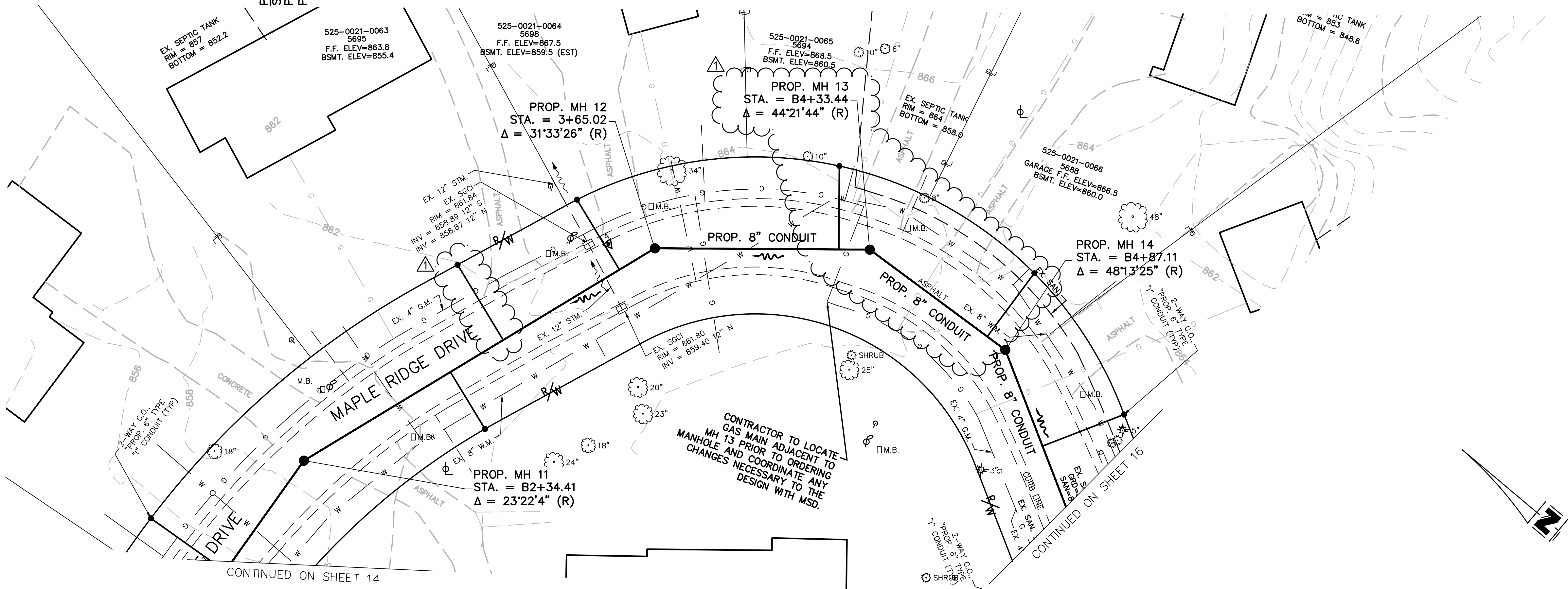
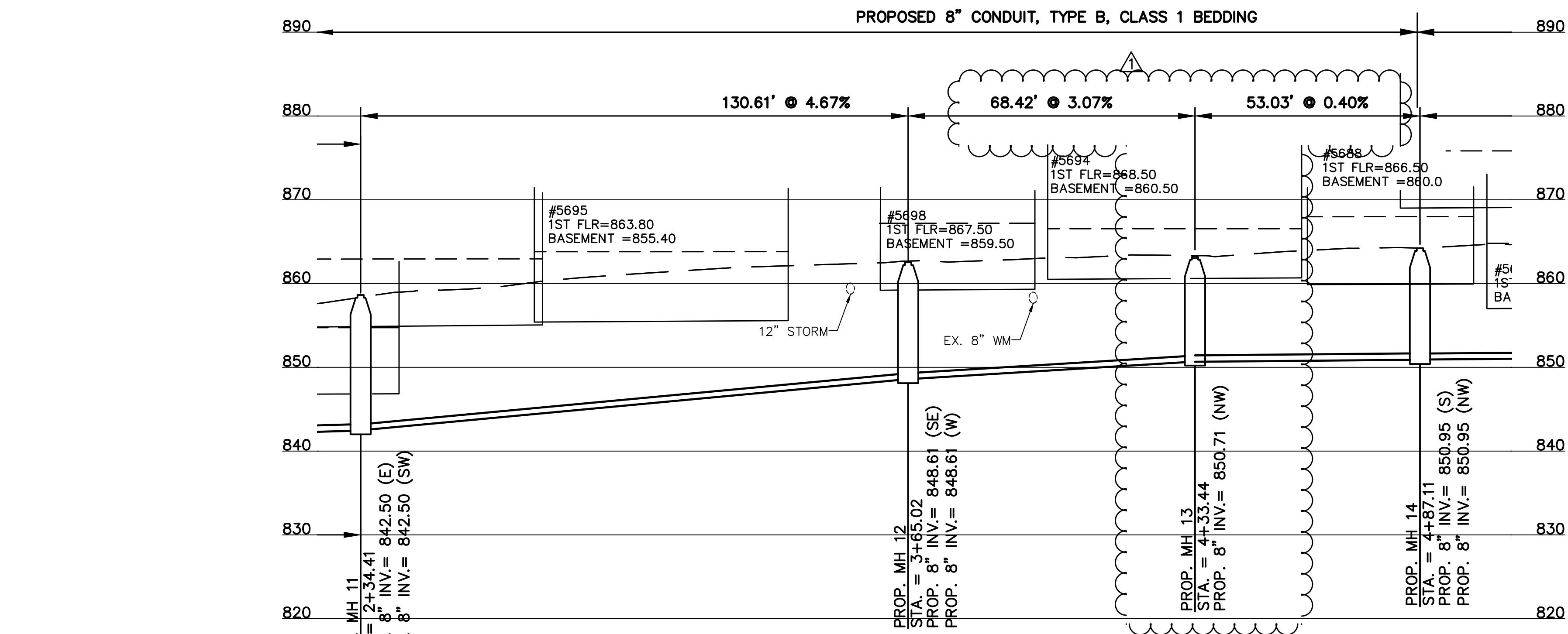
**MAPLERIDGE DRIVE AT NORTH END**  
**PLAN AND PROFILE**



CONTRACT  
DRAWING

PRINTS NOT BEARING THIS STAMP WERE  
MADE PRIOR TO ADVERTISING FOR BIDS  
AND ARE TO BE CONSIDERED OBSOLETE  
FOR CONTRACT PURPOSES.

NOTE:  
MAPLE RIDGE DRIVE REQUIRES  
FULL WIDTH MILL AND PAVE.



| DESIGNED BY: GEW |            |                                         |  |
|------------------|------------|-----------------------------------------|--|
| DRAWN BY: GAU    |            |                                         |  |
| BY:              | DATE:      | REVISIONS                               |  |
| RRM              | 11-11-2025 | DESCRIPTION:                            |  |
|                  |            | Δ RFI UPDATES                           |  |
|                  |            | RFI#5 - Relocated MH#14, relocated 5695 |  |
|                  |            | Mapleridge & 5688 Mapleridge C.O.       |  |
|                  |            |                                         |  |
|                  |            |                                         |  |
|                  |            |                                         |  |



THE METROPOLITAN SEWER DISTRICT  
OF GREATER CINCINNATI  
HAMILTON COUNTY, OHIO

MSD  
WASTEWATER  
ENGINEERING

PROPOSED PROJECT NO. 10370025

FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM  
THE CUL-DE-SAC OF MAPLE RIDGE DR AND VISTA RIDGE DR TO THE CABANA CLUB DR ALONG  
COACHLITE

SCALE: HORIZ. 1"=20'  
VERT. 1"=10'

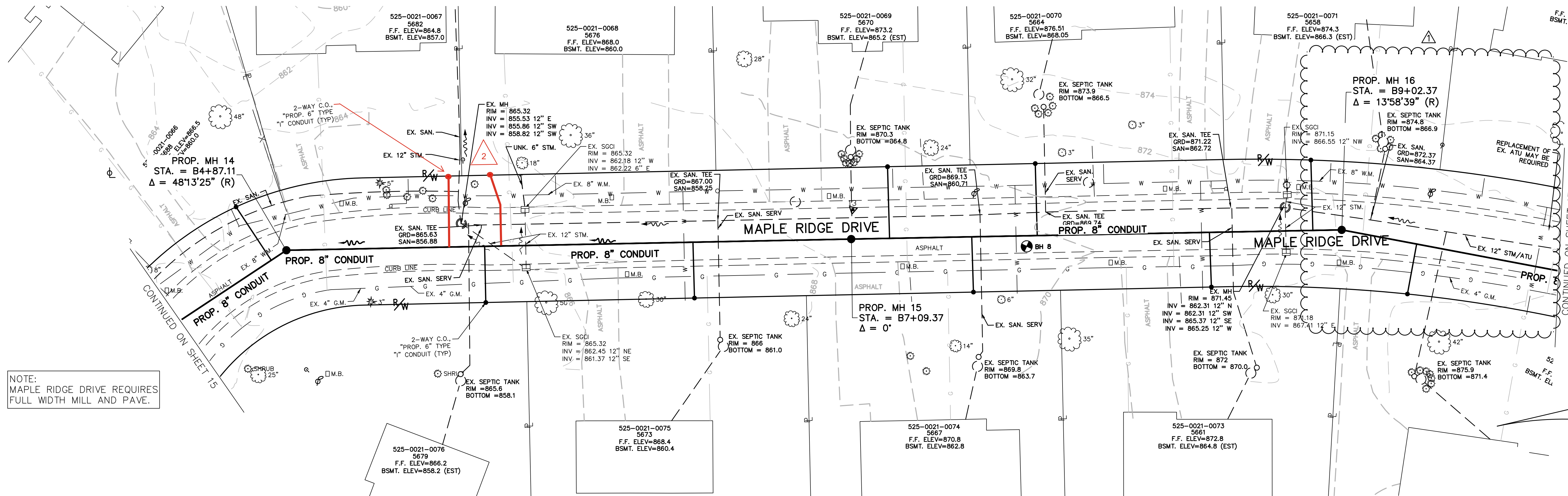
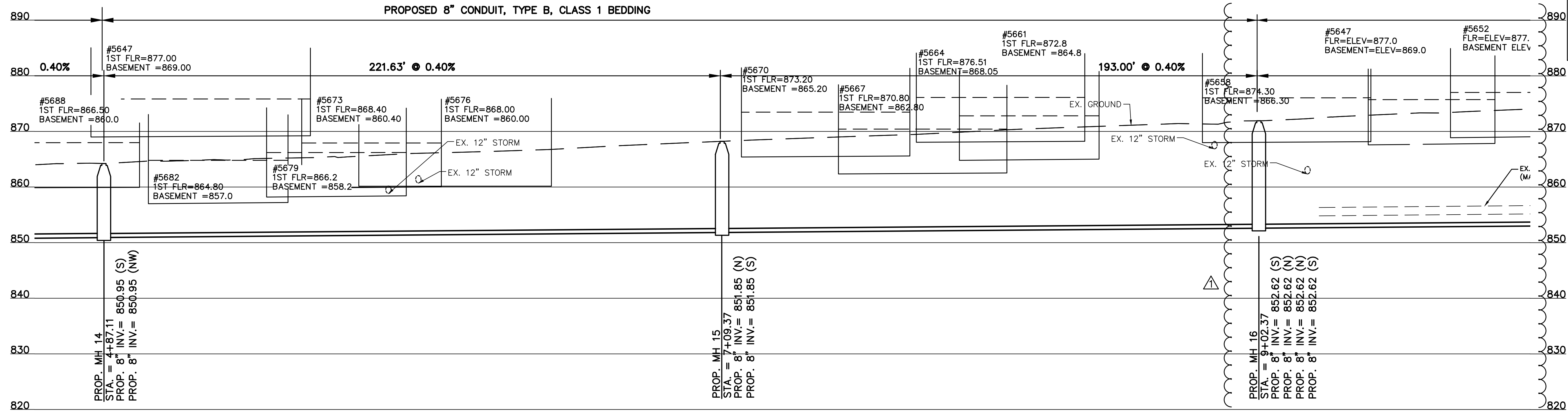
MAPLERIDGE DRIVE AT NORTH END

PLAN AND PROFILE



# CONTRACT DRAWING

PRINTS NOT BEARING THIS STAMP WERE  
MADE PRIOR TO ADVERTISING FOR BIDS  
AND ARE TO BE CONSIDERED OBSOLETE  
FOR CONTRACT PURPOSES.



NOTE:  
MAPLE RIDGE DRIVE REQUIRES  
FULL WIDTH MILL AND PAVE.

| REVISIONS |            |                                         |  |
|-----------|------------|-----------------------------------------|--|
| BY:       | DATE:      | DESCRIPTION:                            |  |
| RRM       | 11-11-2025 | RFI UPDATES RFI#3 - Relocated MH#16     |  |
| DEA       | 11/21/2025 | 2 RELOCATED 5682 & 5676 Mapleridge C.O. |  |
|           |            |                                         |  |
|           |            |                                         |  |
|           |            |                                         |  |
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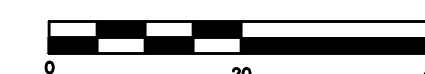
THE METROPOLITAN SEWER DISTRICT  
OF GREATER CINCINNATI  
HAMILTON COUNTY, OHIO



## PROPOSED PROJECT NO. 10370025

FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM  
THE CUL-DE-SAC OF MAPLE RIDGE DR AND VISTA RIDGE DR TO THE CABANA CLUB DR ALONG  
COACHLITE

SCALE: HORIZ. 1"=20'  
VERT. 1"=10'



MAPLERIDGE DRIVE

PLAN AND PROFILE

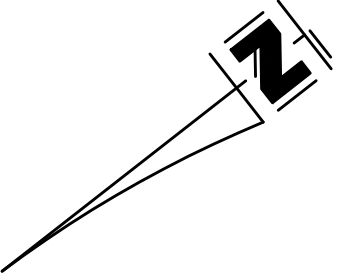
ACC. NO. 78243

SHEET 16 OF 34

SS# 5933



PRINTS NOT BEARING THIS STAMP WERE  
MADE PRIOR TO ADVERTISING FOR BIDS  
AND ARE TO BE CONSIDERED OBSOLETE  
FOR CONTRACT PURPOSES.

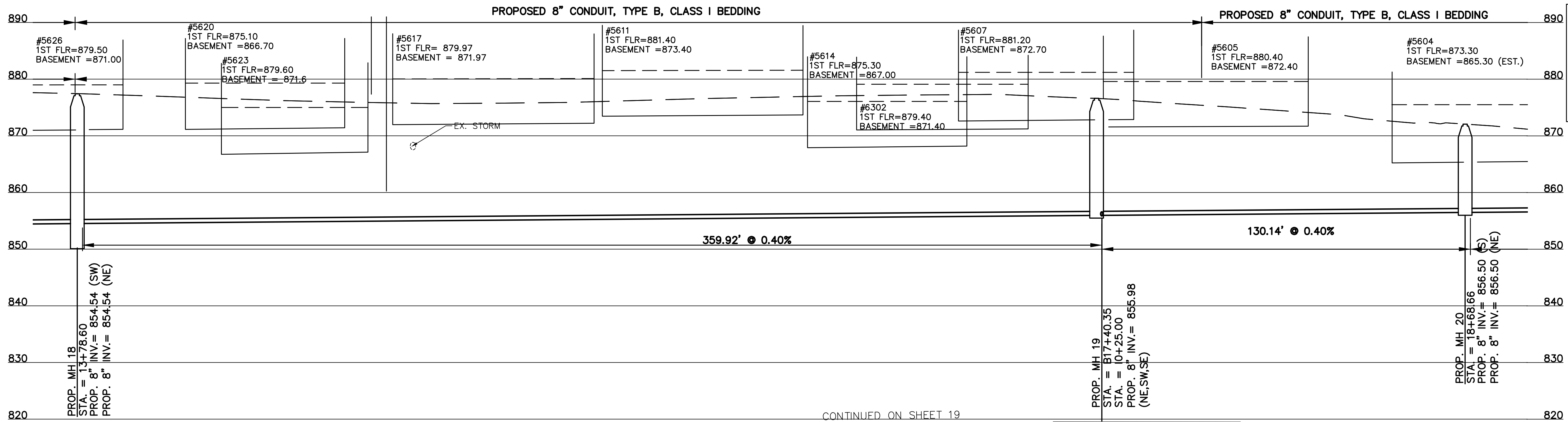


|                                    |
|------------------------------------|
| MAPLERIDGE DRIVE N of<br>MAPLESPUR |
| PLAN AND PROFILE                   |

SS# 5933



PATH: N:\JOBS\2018\18926 - KENWOOD HILLS LOCAL SEWER - JUNE10\WATER\_WASTEWATER\600 CAD\SSA\BASE\AS BUILT\KENWOOD HILLS BASEMAP\_AS BUILT.DWG  
DATE: Nov 13, 2025 - 09:39 AM  
PLOTTED BY: RMCLEAN

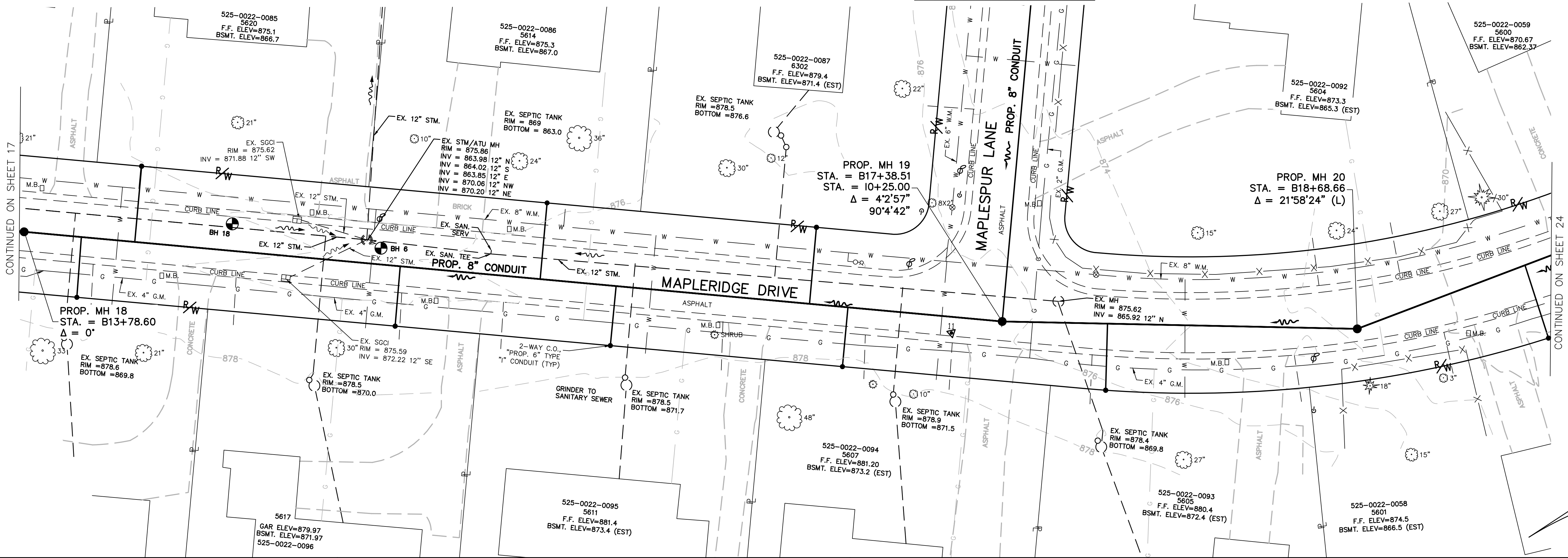


CONTRACT  
DRAWING

PRINTS NOT BEARING THIS STAMP WERE  
MADE PRIOR TO ADVERTISING FOR BIDS  
AND ARE TO BE CONSIDERED OBSOLETE  
FOR CONTRACT PURPOSES.

NOTE:  
MAPLE RIDGE DRIVE REQUIRES  
FULL WIDTH MILL AND PAVE.

CONTINUED ON SHEET 19



CONTINUED ON SHEET 24

| REVISIONS |            |                              |  |
|-----------|------------|------------------------------|--|
| BY:       | DATE:      | DESCRIPTION:                 |  |
| DEA       | 11/21/2025 | Relocated 5632 C.O. location |  |
|           |            |                              |  |
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|           |            |                              |  |
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THE METROPOLITAN DISTRICT  
OF GREATER CINCINNATI  
HAMILTON COUNTY, OHIO



PROPOSED PROJECT NO. 10370025

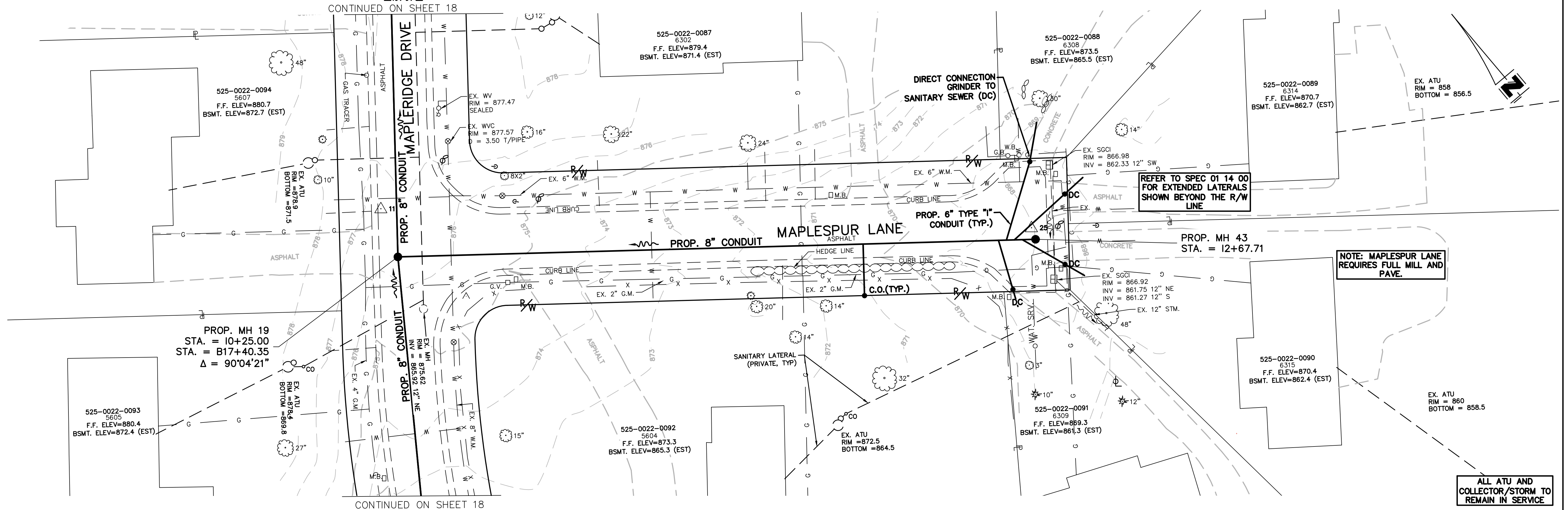
FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM  
THE CUL-DE-SAC OF MAPLE RIDGE DR AND VISTA RIDGE DR TO THE CABANA CLUB DR ALONG  
COACHLITE

SCALE: HORIZ. 1"=20'  
VERT. 1"=10'

MAPLERIDGE & MAPLESPUR

PLAN AND PROFILE



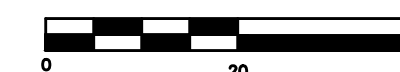


|                                   |           |       |              |
|-----------------------------------|-----------|-------|--------------|
| DESIGNED BY: GEW<br>DRAWN BY: DAJ | REVISIONS |       |              |
|                                   | BY:       | DATE: | DESCRIPTION: |
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**MSD**  
**WASTEWATER  
ENGINEERING**

SCALE: HORIZ. 1"=20'  
VERT. 1"=10'



SHEET19 OF 34

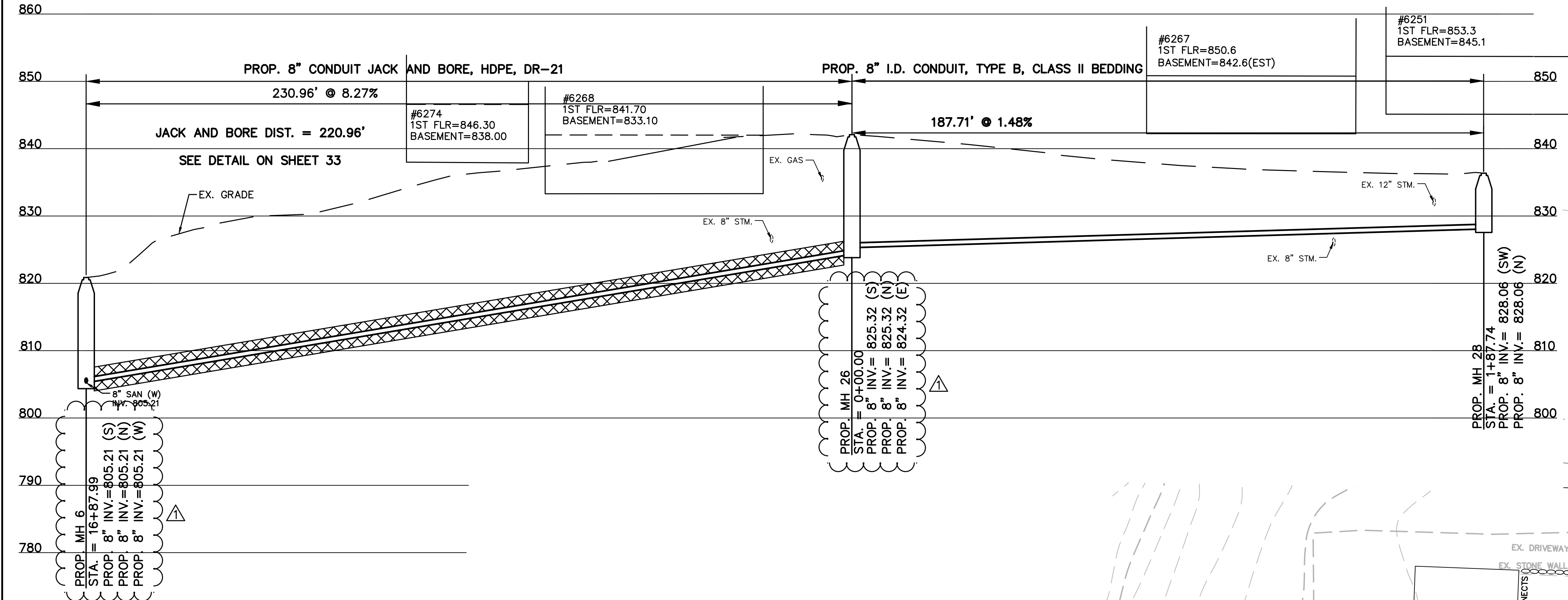
SS# 5933







PATH: N:\JOBS\2018\18026 - KENWOOD HILLS LOCAL SEWER - JUNETO\WATER\_WASTEWATER\600 CAD\SSA\BASE\AS BUILT\KENWOOD HILLS BASEMAP\_AS BUILT.DWG  
DATE: Nov 13, 2025 - 09:39 AM  
PLOT: Nov 13, 2025 - 09:39 AM  
PLOTTER: RMCLEAN



NOTE:  
COACHLITE WAY REQUIRES  
FULL WIDTH MILL AND PAVE.

CONTRACTOR TO VERIFY STORM  
LOCATION AND DEPTH PRIOR TO  
ORDERING MATERIALS AND COORDINATE  
ANY CHANGES WITH MSD.

**CONTRACT  
DRAWING**  
PRINTS NOT BEARING THIS STAMP WERE  
MADE PRIOR TO ADVERTISING FOR BIDS  
AND ARE TO BE CONSIDERED OBSOLETE  
FOR CONTRACT PURPOSES.

| DESIGNED BY: GEW |            |                                   |  |
|------------------|------------|-----------------------------------|--|
| DRAWN BY: GAU    |            |                                   |  |
| REVISIONS        |            |                                   |  |
| BY:              | DATE:      | DESCRIPTION:                      |  |
| RRM              | 11-11-2025 | RFI UPDATES                       |  |
|                  |            | RFI#1, MH6& MH#26 changed inverts |  |
|                  |            |                                   |  |
|                  |            |                                   |  |
|                  |            |                                   |  |
|                  |            |                                   |  |



THE METROPOLITAN SEWER DISTRICT  
OF GREATER CINCINNATI  
HAMILTON COUNTY, OHIO

**PROPOSED PROJECT NO. 10370025**  
FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM  
THE CUL-DE-SAC OF MAPLE RIDGE DR AND VISTA RIDGE DR TO THE CABANA CLUB DR ALONG  
COACHLITE

SCALE: HORIZ. 1"=20'  
VERT. 1"=10'



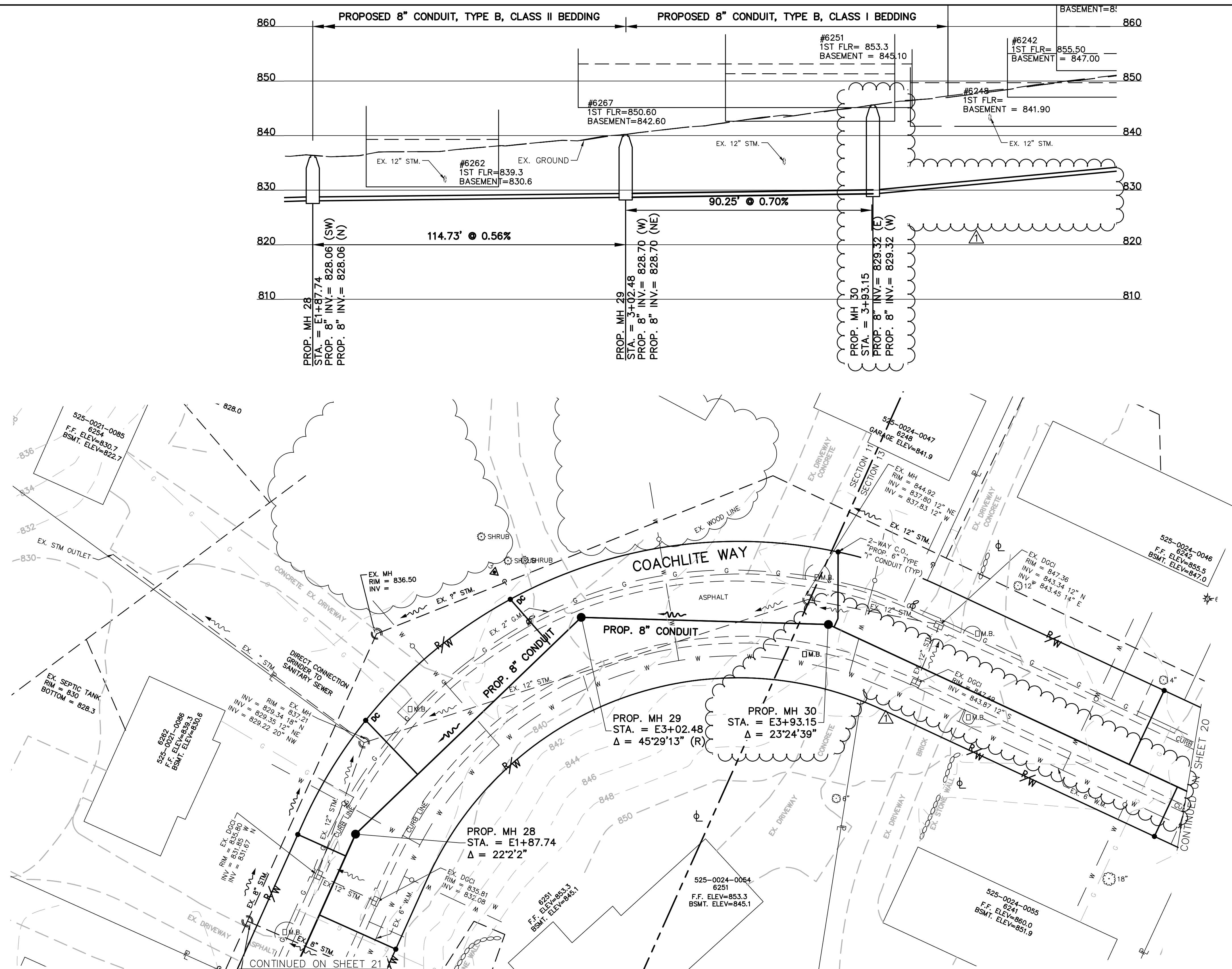
**COACHLITE WAY to CABANA  
CLUB DRIVE**

**PLAN AND PROFILE**

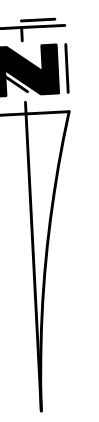


CONTRACT  
DRAWING

PRINTS NOT BEARING THIS STAMP WERE  
MADE PRIOR TO ADVERTISING FOR BIDS  
AND ARE TO BE CONSIDERED OBSOLETE  
FOR CONTRACT PURPOSES.



NOTE:  
COACHLITE WAY REQUIRES  
FULL WIDTH MILL AND PAVE.



| REVISIONS |            |                                           |  |
|-----------|------------|-------------------------------------------|--|
| BY:       | DATE:      | DESCRIPTION:                              |  |
| RRM       | 11-11-2025 | RFI UPDATES                               |  |
|           |            | RFI#2 - Relocated MH#30 & changed inverts |  |
|           |            |                                           |  |
|           |            |                                           |  |
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THE METROPOLITAN SEWER DISTRICT  
OF GREATER CINCINNATI  
HAMILTON COUNTY, OHIO

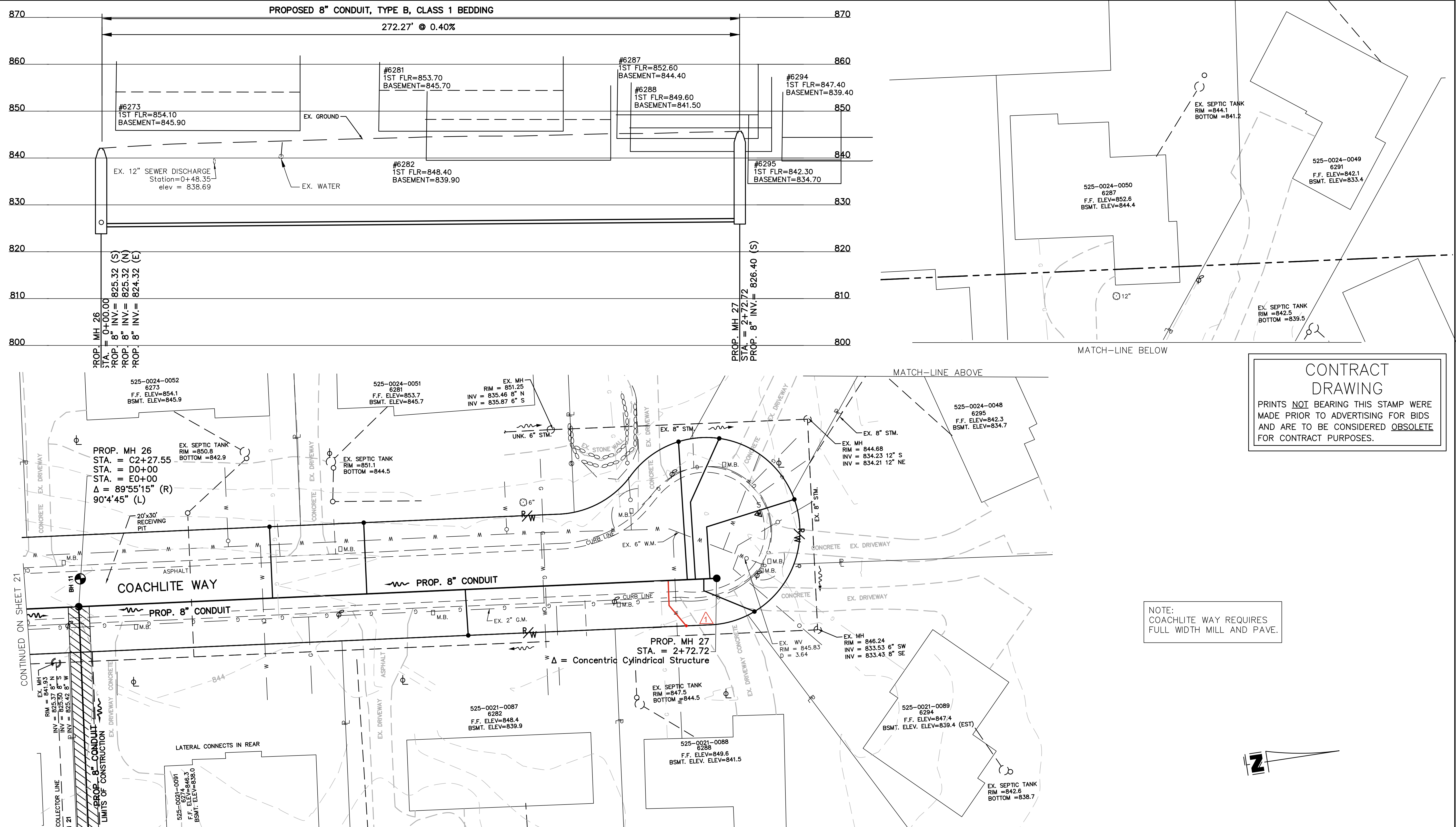


PROPOSED PROJECT NO. 10370025  
FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM  
THE CUL-DE-SAC OF MAPLE RIDGE DR AND VISTA RIDGE DR TO THE CABANA CLUB DR ALONG  
COACHLITE  
SCALE: HORIZ. 1"=20'  
VERT. 1"=10'

COACHLITE WAY  
PLAN AND PROFILE



PATH: N:\JOBS\2018\18926 - KENWOOD HILLS LOCAL SEWER - JUNE10\WATER\_WASTEWATER\600 CAD\SSA\BASE\AS BUILT\KENWOOD HILLS BASEMAP\_AS BUILT.DWG  
DATE: Nov 13, 2025 - 09:39 AM  
PLOT BY: RMCLEAN



CONTRACT  
DRAWING

PRINTS NOT BEARING THIS STAMP WERE  
MADE PRIOR TO ADVERTISING FOR BIDS  
AND ARE TO BE CONSIDERED OBsolete  
FOR CONTRACT PURPOSES.

NOTE:  
COACHLITE WAY REQUIRES  
FULL WIDTH MILL AND PAVE.



| REVISIONS |            |                                 |  |
|-----------|------------|---------------------------------|--|
| BY:       | DATE:      | DESCRIPTION:                    |  |
| DEA       | 11/21/2025 | 1 Relocated 6288 Coachlite C.O. |  |
|           |            |                                 |  |
|           |            |                                 |  |
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|                  |               |
|------------------|---------------|
| DESIGNED BY: GEW | DRAWN BY: GAU |
|------------------|---------------|



THE METROPOLITAN SEWER DISTRICT  
OF GREATER CINCINNATI  
HAMILTON COUNTY, OHIO

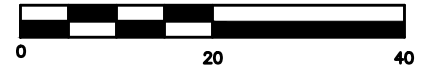


MSD  
WASTEWATER  
ENGINEERING

**PROPOSED PROJECT NO. 10370025**

FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM  
THE CUL-DE-SAC OF MAPLE RIDGE DR AND VISTA RIDGE DR TO THE CABANA CLUB DR ALONG  
COACHLITE

SCALE: HORIZ. 1"=20'  
VERT. 1"=10'



**COACHLITE WAY**

**PLAN AND PROFILE**

ACC. NO. **78250**

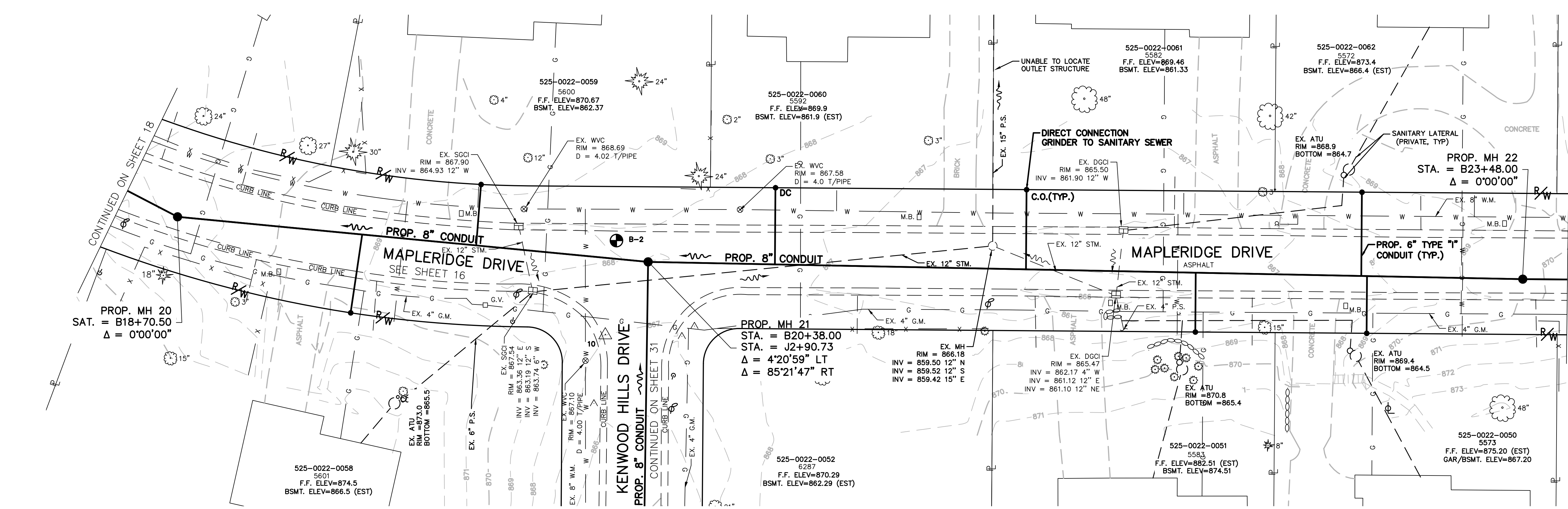
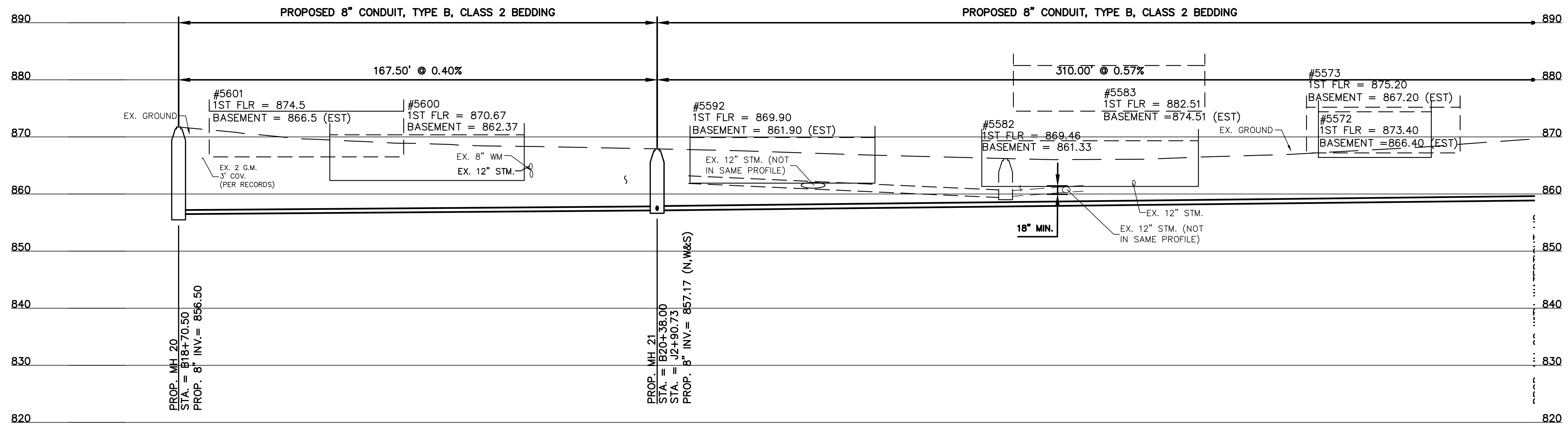
SHEET **23** OF **34**

SS# 5933



CONTRACT  
DRAWING

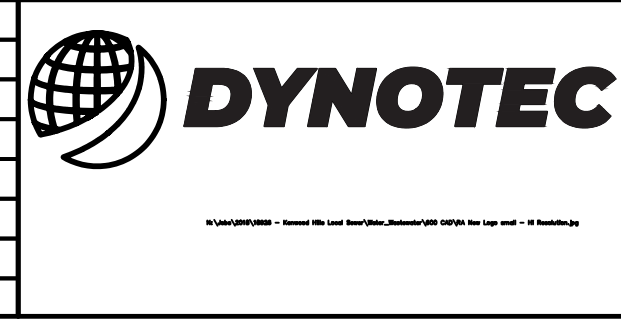
PRINTS NOT BEARING THIS STAMP WERE  
MADE PRIOR TO ADVERTISING FOR BIDS  
AND ARE TO BE CONSIDERED OBSOLETE  
FOR CONTRACT PURPOSES.



NOTE:  
MAPLERIDGE DRIVE REQUIRES  
FULL MILL AND PAVE.

ALL ATU AND  
COLLECTOR/STORM TO  
REMAIN IN SERVICE

| REVISIONS |       |              |  |
|-----------|-------|--------------|--|
| BY:       | DATE: | DESCRIPTION: |  |
|           |       |              |  |
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|           |       |              |  |
|           |       |              |  |



THE METROPOLITAN SEWER DISTRICT  
OF GREATER CINCINNATI  
HAMILTON COUNTY, OHIO



PROPOSED SANITARY SEWER NO. SS 5933

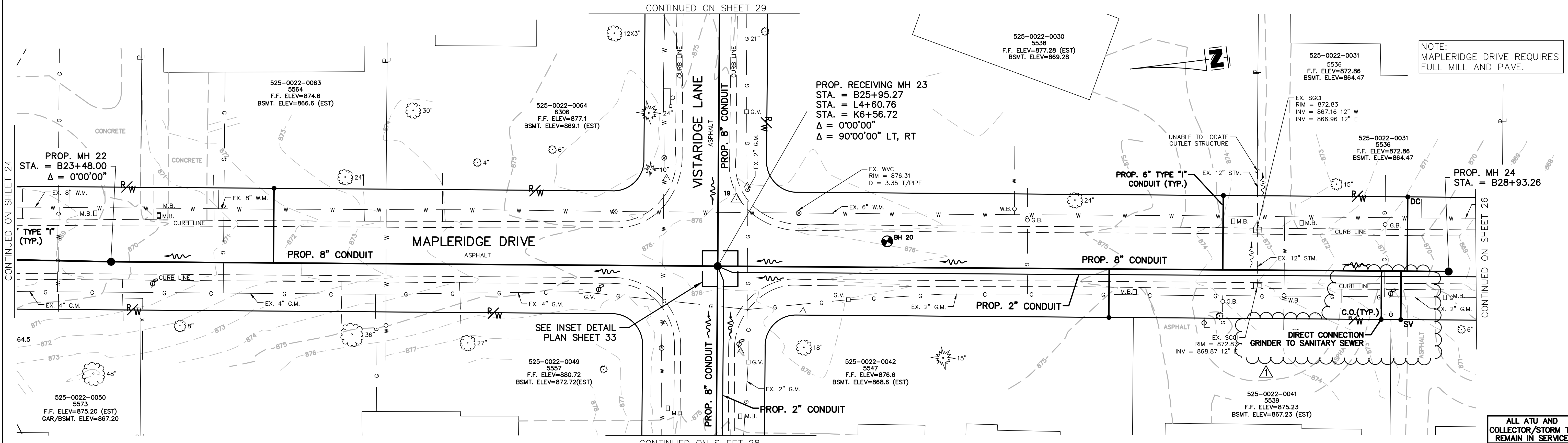
FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM THE  
CUL-DE-SAC OF MAPLE RIDGEDR AND VISTARIDGE DR TO THE CABANA CLUB DR ALONG COACHLITE

SCALE: HORIZ. 1"=20'  
VERT. 1"=10'

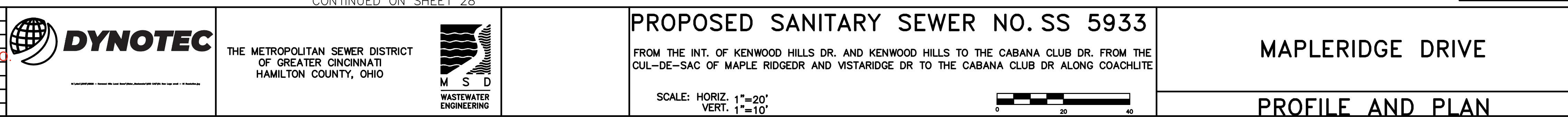
MAPLERIDGE PI & Pr

PROFILE AND PLAN



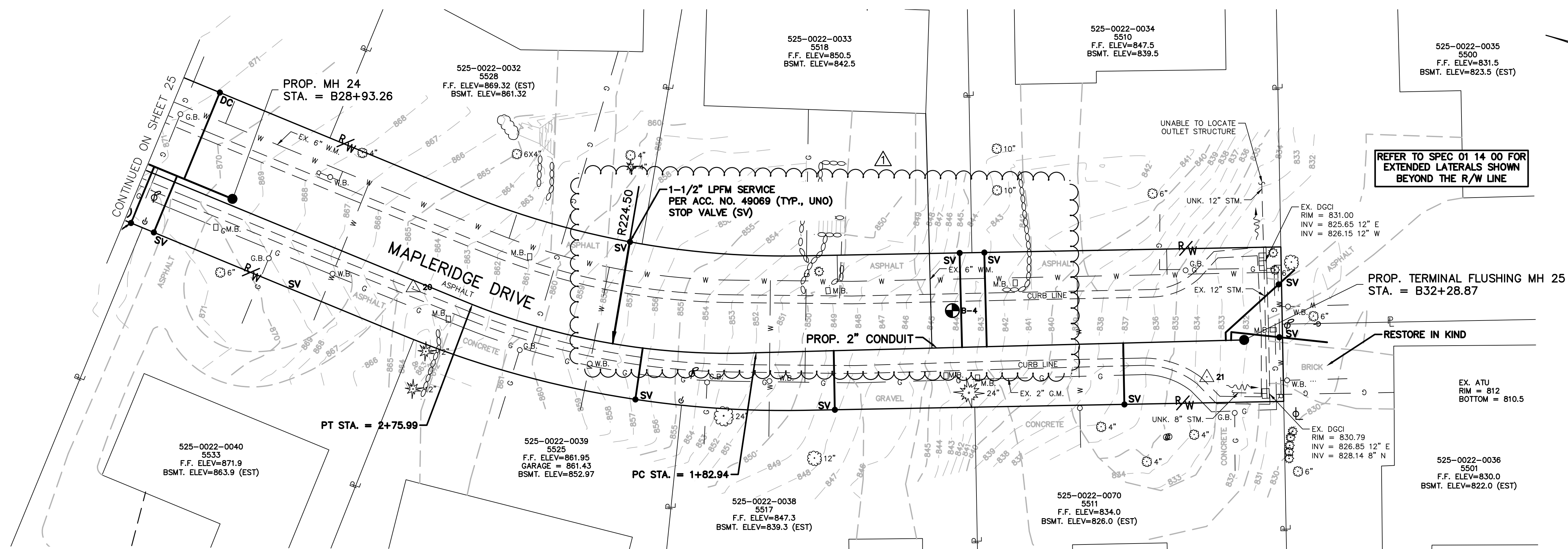
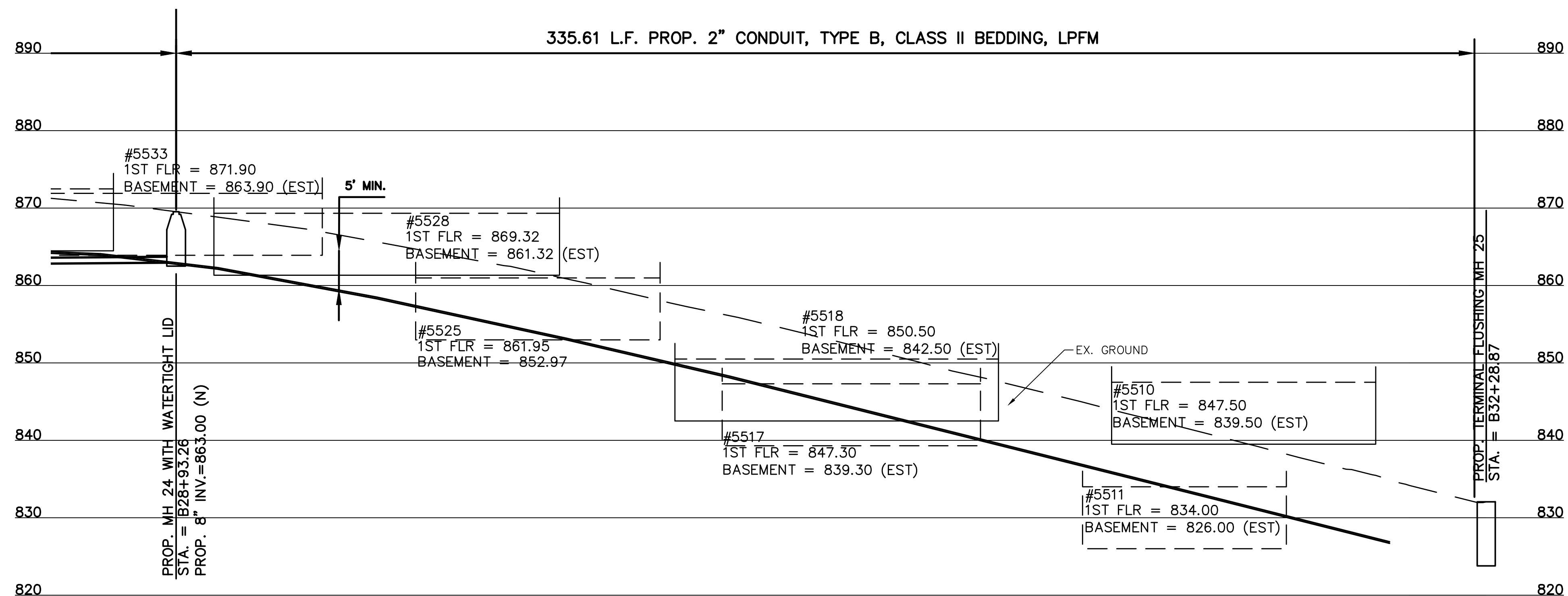


|                                       |           |            |                                                                    |
|---------------------------------------|-----------|------------|--------------------------------------------------------------------|
| DESIGNED BY: GEW<br><br>DRAWN BY: DAJ | REVISIONS |            |                                                                    |
|                                       | BY:       | DATE:      | DESCRIPTION:                                                       |
|                                       | RRM       | 11-11-2025 | ⚠ -RFI UPDATES -<br>Relocated 5539 Mapleridge & 5533 Mapleridge C. |
|                                       |           |            |                                                                    |
|                                       |           |            |                                                                    |
|                                       |           |            |                                                                    |





PRINTS NOT BEARING THIS STAMP WERE  
MADE PRIOR TO ADVERTISING FOR BIDS  
AND ARE TO BE CONSIDERED OBSOLETE  
FOR CONTRACT PURPOSES.



NOTE:  
MAPLERIDGE DRIVE REQUIRES  
FULL MILL AND PAVE.

REFER TO SPEC 01 14 00 FOR  
EXTENDED LATERALS SHOWN  
BEYOND THE R/W LINE

**ALL ATU AND  
COLLECTOR/STORM TO  
REMAIN IN SERVICE**

|                                       |           |            |                                                                                                                                                     |
|---------------------------------------|-----------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| DESIGNED BY: GEW<br><br>DRAWN BY: DAJ | REVISIONS |            |                                                                                                                                                     |
|                                       | BY:       | DATE:      | DESCRIPTION:                                                                                                                                        |
|                                       | RRM       | 11-11-2025 |  RFI UPDATES<br>RFI#2 – Relocated 5528, 5518, & 5510 Maple Ridge |
|                                       |           |            |                                                                                                                                                     |
|                                       |           |            |                                                                                                                                                     |
|                                       |           |            |                                                                                                                                                     |
|                                       |           |            |                                                                                                                                                     |
|                                       |           |            |                                                                                                                                                     |



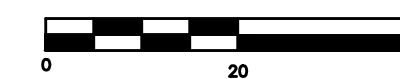
THE METROPOLITAN SEWER DISTRICT  
OF GREATER CINCINNATI  
HAMILTON COUNTY, OHIO



# PROPOSED SANITARY SEWER NO. SS 5933

FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM THE CUL-DE-SAC OF MAPLE RIDGEDR AND VISTARIDGE DR TO THE CABANA CLUB DR ALONG COACHLITE

SCALE: HORIZ. 1"=20'  
VERT. 1"=10'



MAPLERIDGE DRIVE

## PROFILE AND PLAN

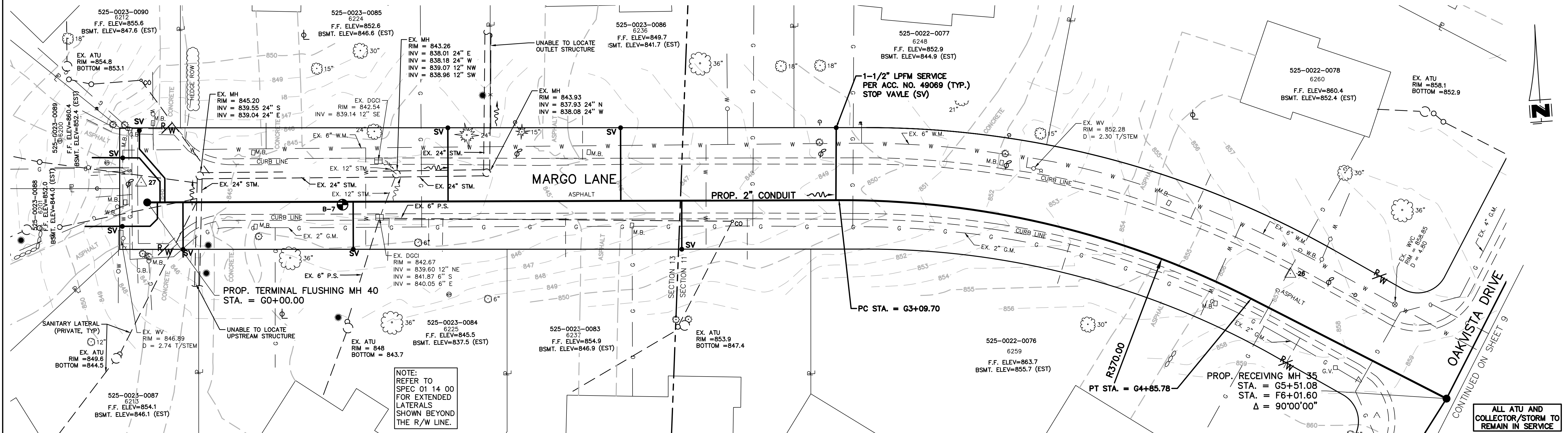
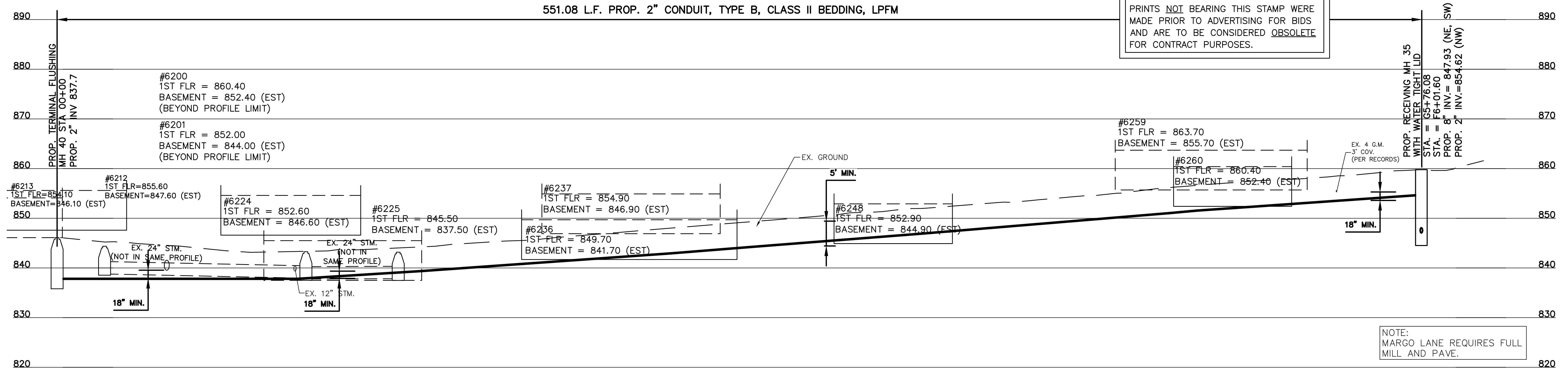
ACC. NO. 78253

SHEET26 OF 34

SS# 5933



PRINTS NOT BEARING THIS STAMP WERE  
MADE PRIOR TO ADVERTISING FOR BIDS  
AND ARE TO BE CONSIDERED OBSOLETE  
FOR CONTRACT PURPOSES.



| DESIGNED BY: GEW<br>DRAWN BY: DAJ | REVISIONS |       |              |
|-----------------------------------|-----------|-------|--------------|
|                                   | BY:       | DATE: | DESCRIPTION: |
|                                   |           |       |              |
|                                   |           |       |              |
|                                   |           |       |              |
|                                   |           |       |              |
|                                   |           |       |              |



THE METROPOLITAN SEWER DISTRICT  
OF GREATER CINCINNATI  
HAMILTON COUNTY, OHIO



FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM THE CUL-DE-SAC OF MAPLE RIDGEDR AND VISTARIDGE DR TO THE CABANA CLUB DR ALONG COACHLITE

SCALE: HORIZ. 1"=20'  
VERT. 1"=10'



## PROFILE AND PLAN

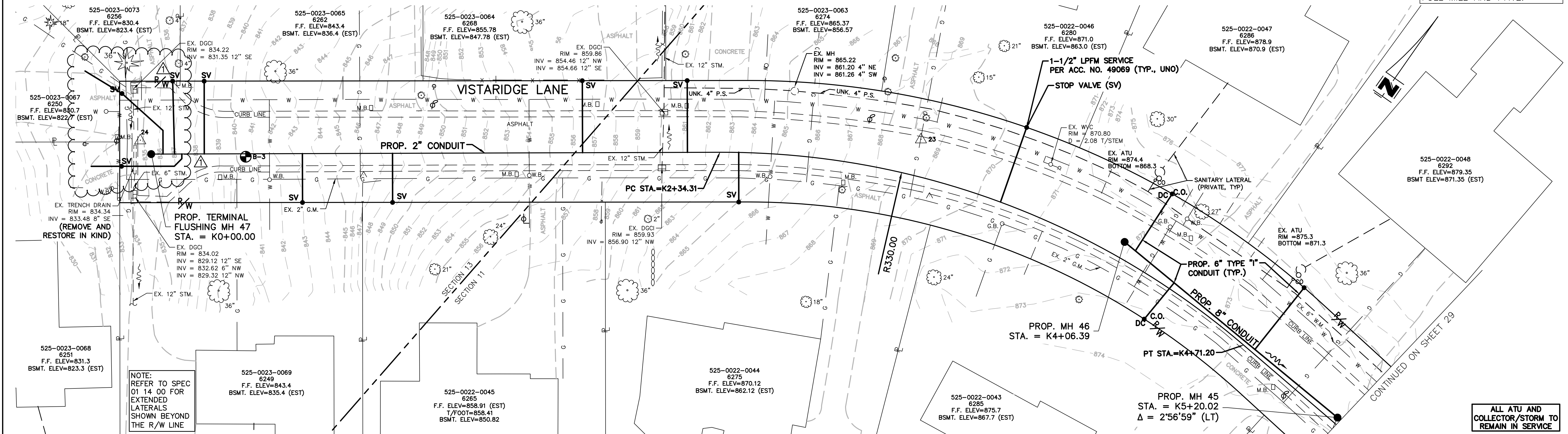
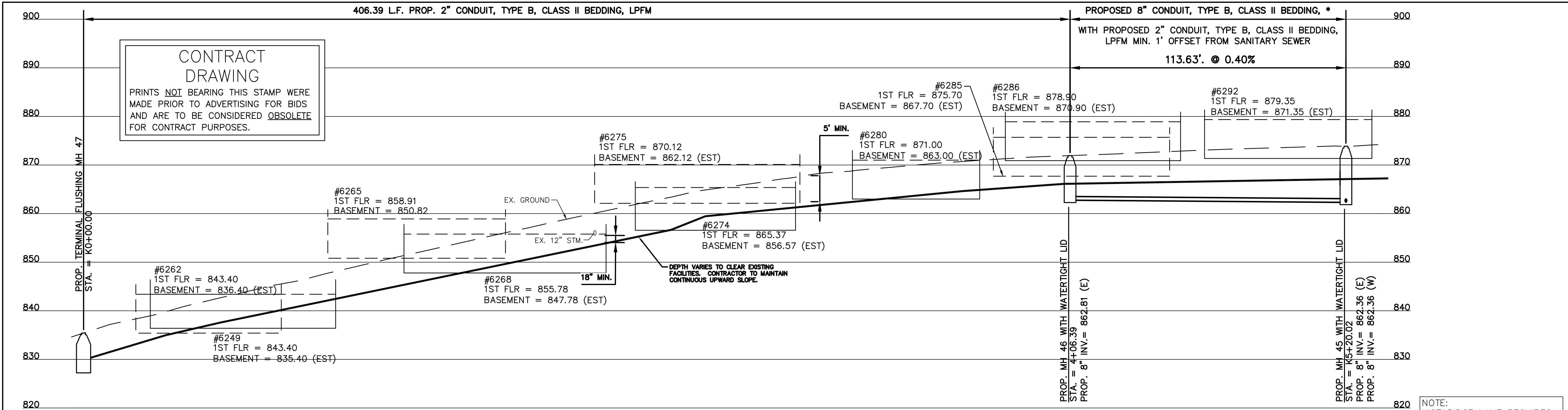
ACC. NO. 78254

SHEET27 OF 34

SS# 5933



PATH: N:\JCRS\2019\8926 - KENWOOD HILLS LOCAL SEWER - JUNE10\WATER\_WASTEWATER\600 CAD\BASE\AS BUILT\RA CONSULTANTS KENWOOD\_AS BUILT.DWG  
DATE: Nov 13, 2025 - 09:40 AM  
PLOT BY: RMCLAN



| REVISIONS     |     |            |              |
|---------------|-----|------------|--------------|
| DESIGNED BY:  | BY: | DATE:      | DESCRIPTION: |
| GEW           | RRM | 11-11-2025 | RFI UPDATES  |
| DRAWN BY: DAJ |     |            |              |
|               |     |            |              |
|               |     |            |              |
|               |     |            |              |



THE METROPOLITAN SEWER DISTRICT  
OF GREATER CINCINNATI  
HAMILTON COUNTY, OHIO

WASTEWATER  
ENGINEERING

PROPOSED SANITARY SEWER NO. SS 5933

FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM THE CUL-DE-SAC OF MAPLE RIDGEDR AND VISTARIDGE DR TO THE CABANA CLUB DR ALONG COACHLITE

SCALE: HORIZ. 1"=20'  
VERT. 1"=10'

VISTA RIDGE LANE

PROFILE AND PLAN

ACC. NO. 78255

SHEET 28 OF 34

SS# 5933







PRINTS NOT BEARING THIS STAMP WERE  
MADE PRIOR TO ADVERTISING FOR BIDS  
AND ARE TO BE CONSIDERED OBSELETE  
FOR CONTRACT PURPOSES.

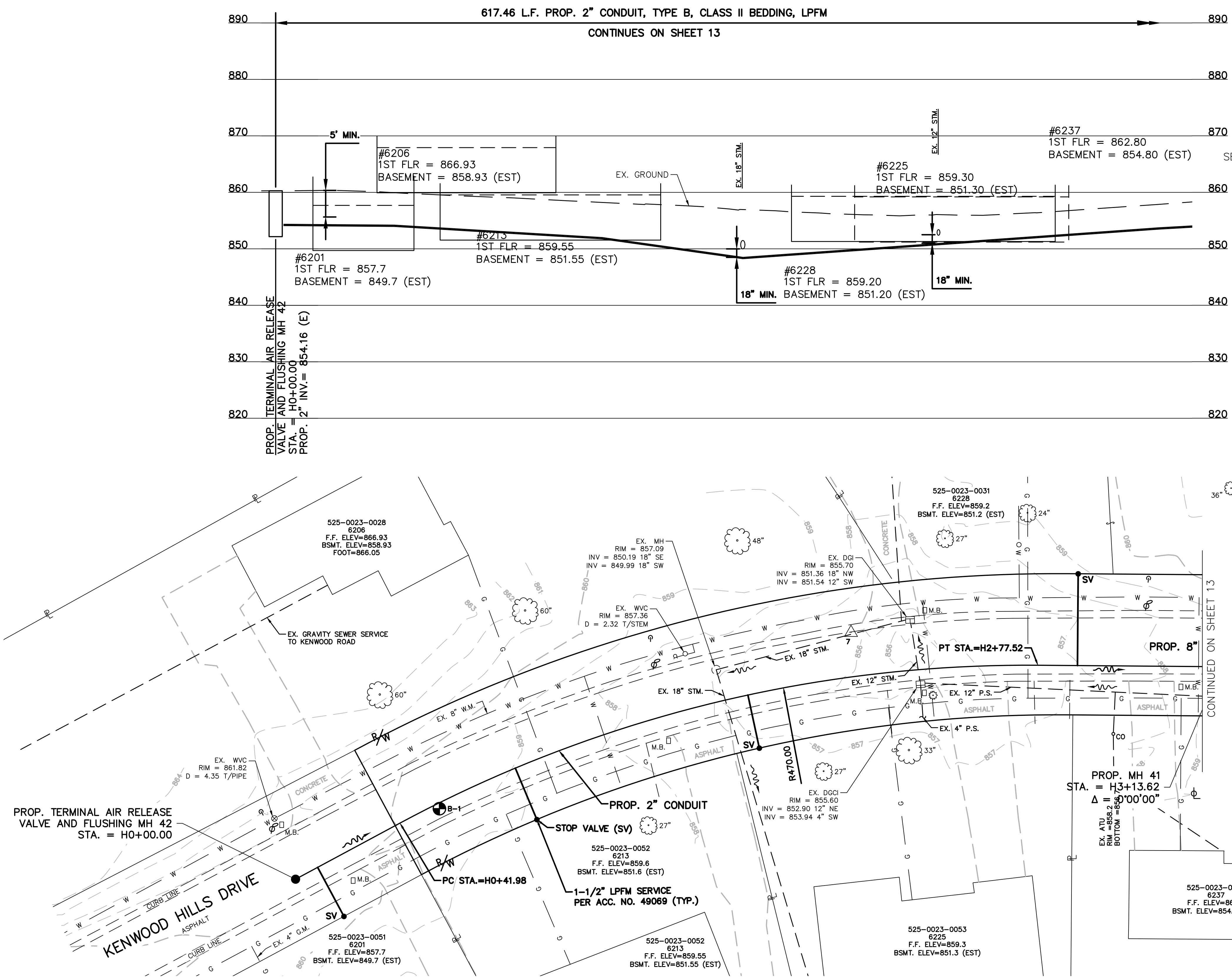
NOTE:  
KENWOOD HILLS DRIVE  
REQUIRES FULL MILL AND  
PAVE.

**ALL ATU AND  
COLLECTOR/STORM TO  
REMAIN IN SERVICE**

## PROFILE AND PLAN

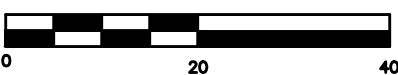
SHEET 30 OF 34

S# 5933



FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM THE CUL-DE-SAC OF MAPLE RIDGEDR AND VISTARIDGE DR TO THE CABANA CLUB DR ALONG COACHLITE

SCALE: HORIZ. 1"=20'  
VERT. 1"=10'

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THE METROPOLITAN SEWER DISTRICT  
OF GREATER CINCINNATI  
HAMILTON COUNTY, OHIO

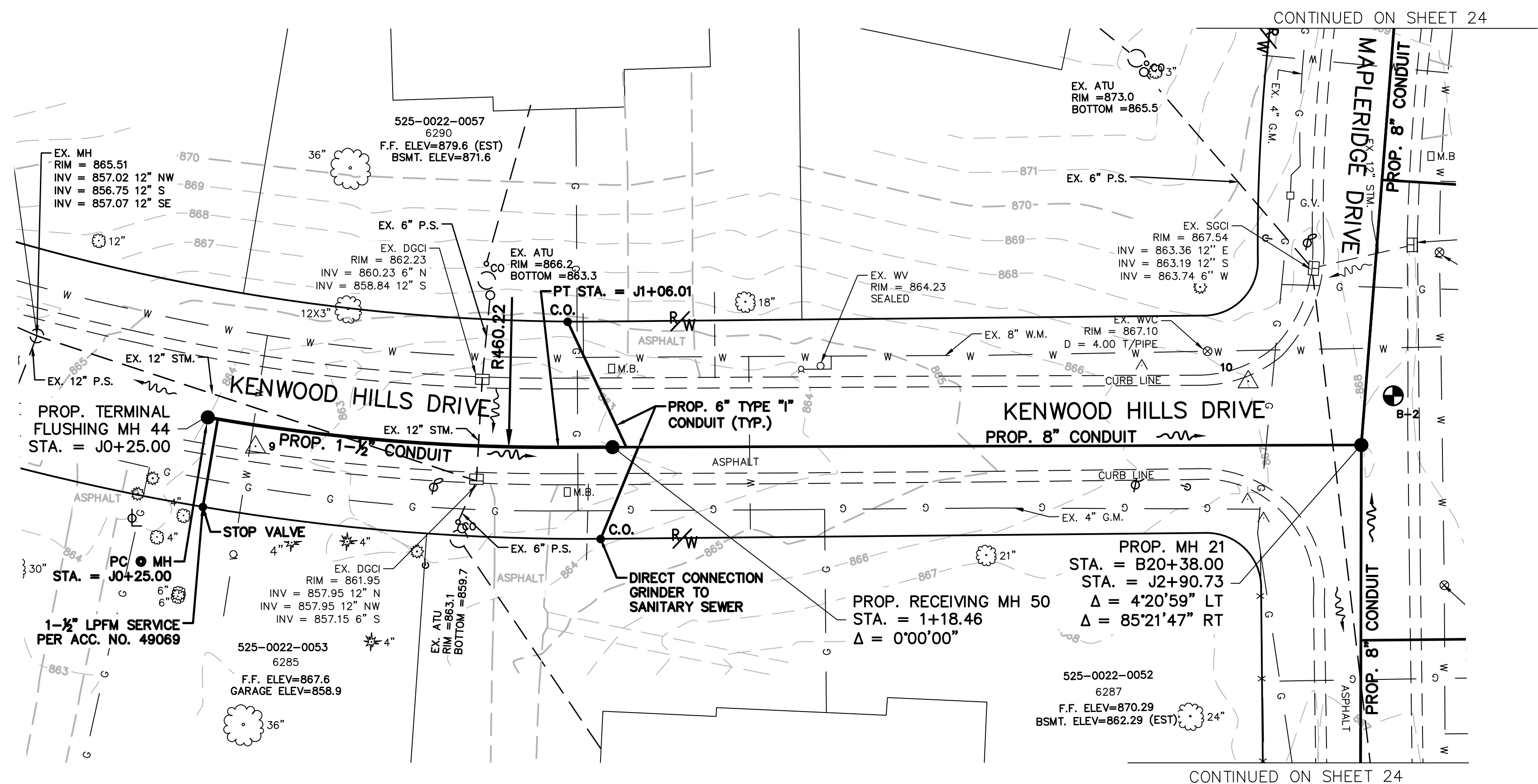
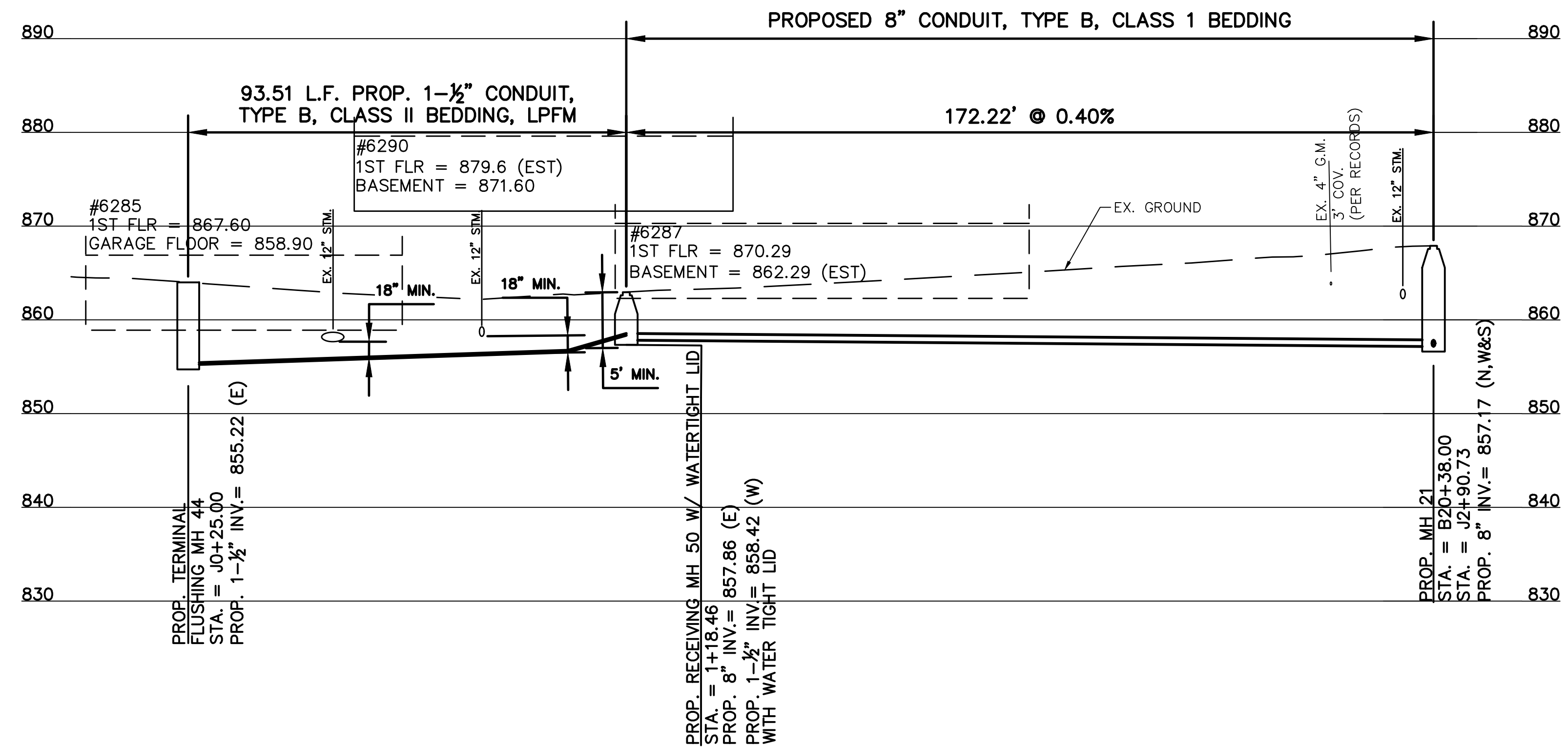


ACAD DRAWING NAME:RA CONSULTANTS KENWOOD\_AS BUILT.DWG

FOR EASEMENT DRAWING SEE ACC. NO. \_\_\_\_\_



PRINTS NOT BEARING THIS STAMP WERE  
MADE PRIOR TO ADVERTISING FOR BIDS  
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FOR CONTRACT PURPOSES.



NOTE:  
KENWOOD HILLS DRIVE  
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PAVE.

**ALL ATU AND  
COLLECTOR/STORM TO  
REMAIN IN SERVICE**

[illegible]

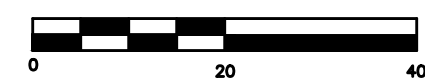
THE METROPOLITAN SEWER DISTRICT  
OF GREATER CINCINNATI  
HAMILTON COUNTY, OHIO



PROPOSED SANITARY SEWER NO. SS 5933

FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM THE CUL-DE-SAC OF MAPLE RIDGEDR AND VISTARIDGE DR TO THE CABANA CLUB DR ALONG COACHLITE

SCALE: HORIZ. 1"=20'  
VERT. 1"=10'



KENWOOD HILLS DRIVE

## PROFILE AND PLAN

ACC. NO. 78258

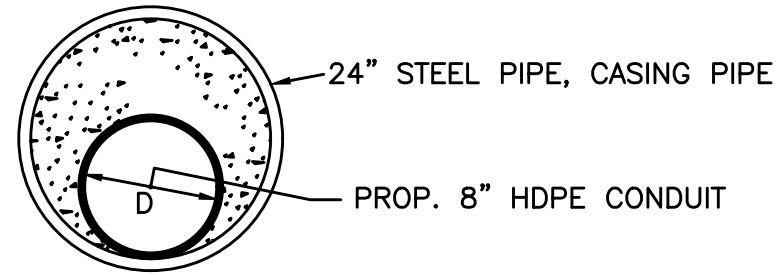
SHEET 31 OF 34

S# 5933

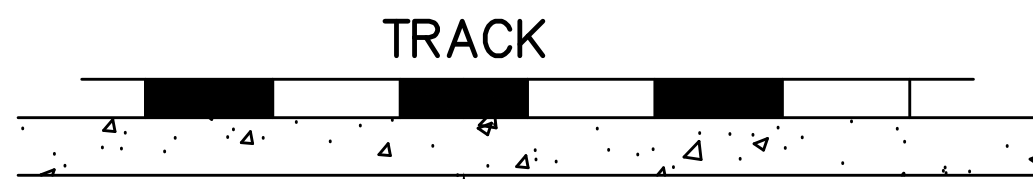


FILL WITH A LEAN (1 TO 8) MIXTURE OF CEMENT AND SAND OR CEMENT, SAND AND PEA GRAVEL RAMMED OR BLOWN INTO PLACE DRY. SOME POSITIVE MEANS TO ASSURE THAT THE SPACE IS COMPLETELY FILLED, FREE OF ANY VOIDS, SHALL BE USED.

| PROP. CONDUIT SIZE "D" | MINIMUM STEEL CASING WALL THICKNESS |
|------------------------|-------------------------------------|
| 8"                     | 0.375"                              |

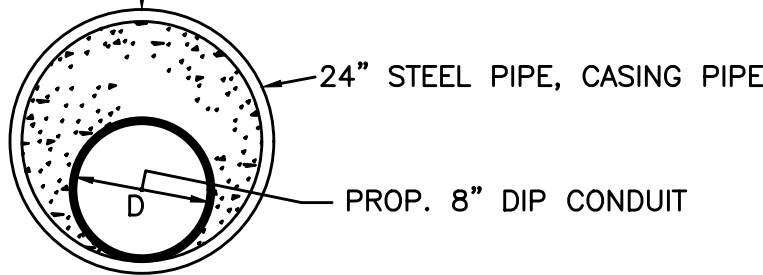


**JACK AND BORE INSTALLATION OF HDPE PIPE DETAIL, BETWEEN COACHLITE WAY AND CABANA CLUB**  
NOT TO SCALE

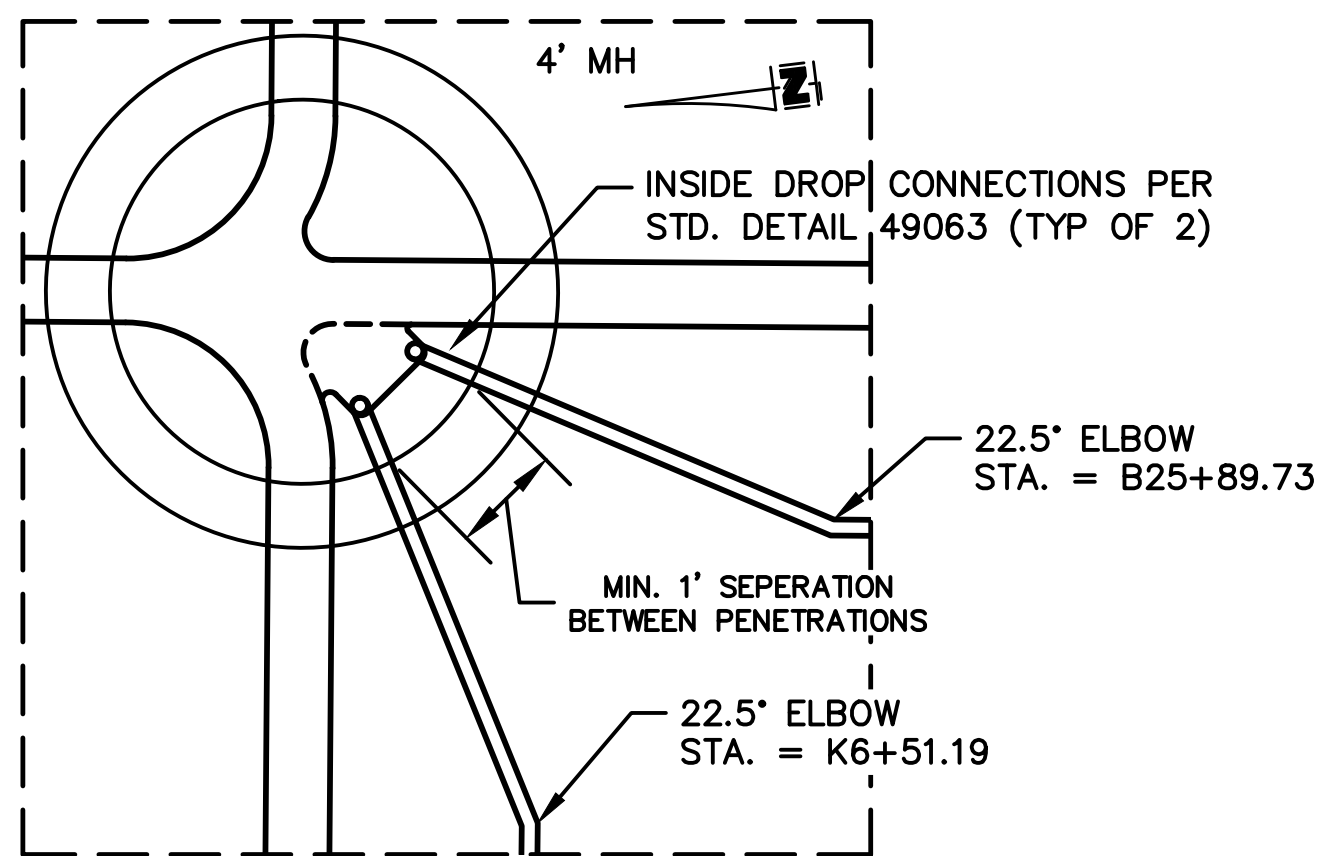


FILL WITH A LEAN (1 TO 8) MIXTURE OF CEMENT AND SAND OR CEMENT, SAND AND PEA GRAVEL RAMMED OR BLOWN INTO PLACE DRY. SOME POSITIVE MEANS TO ASSURE THAT THE SPACE IS COMPLETELY FILLED, FREE OF ANY VOIDS, SHALL BE USED.

| PROP. CONDUIT SIZE "D" | MINIMUM STEEL CASING WALL THICKNESS |
|------------------------|-------------------------------------|
| 8"                     | 0.375"                              |



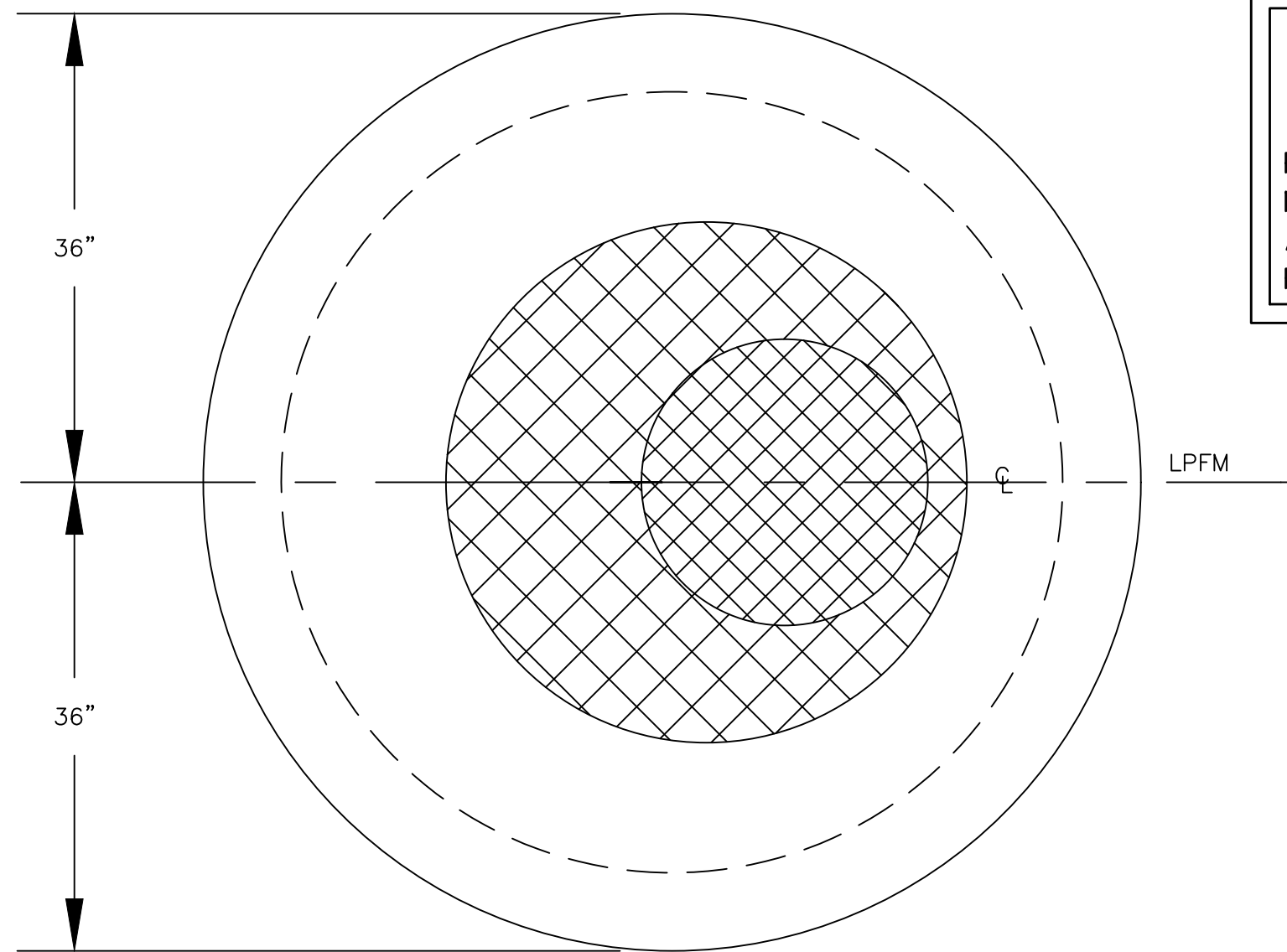
**PROPOSED JACK AND BORE INSTALLATION OF DIP PIPE DETAIL RAILROAD SECTION**  
NOT TO SCALE



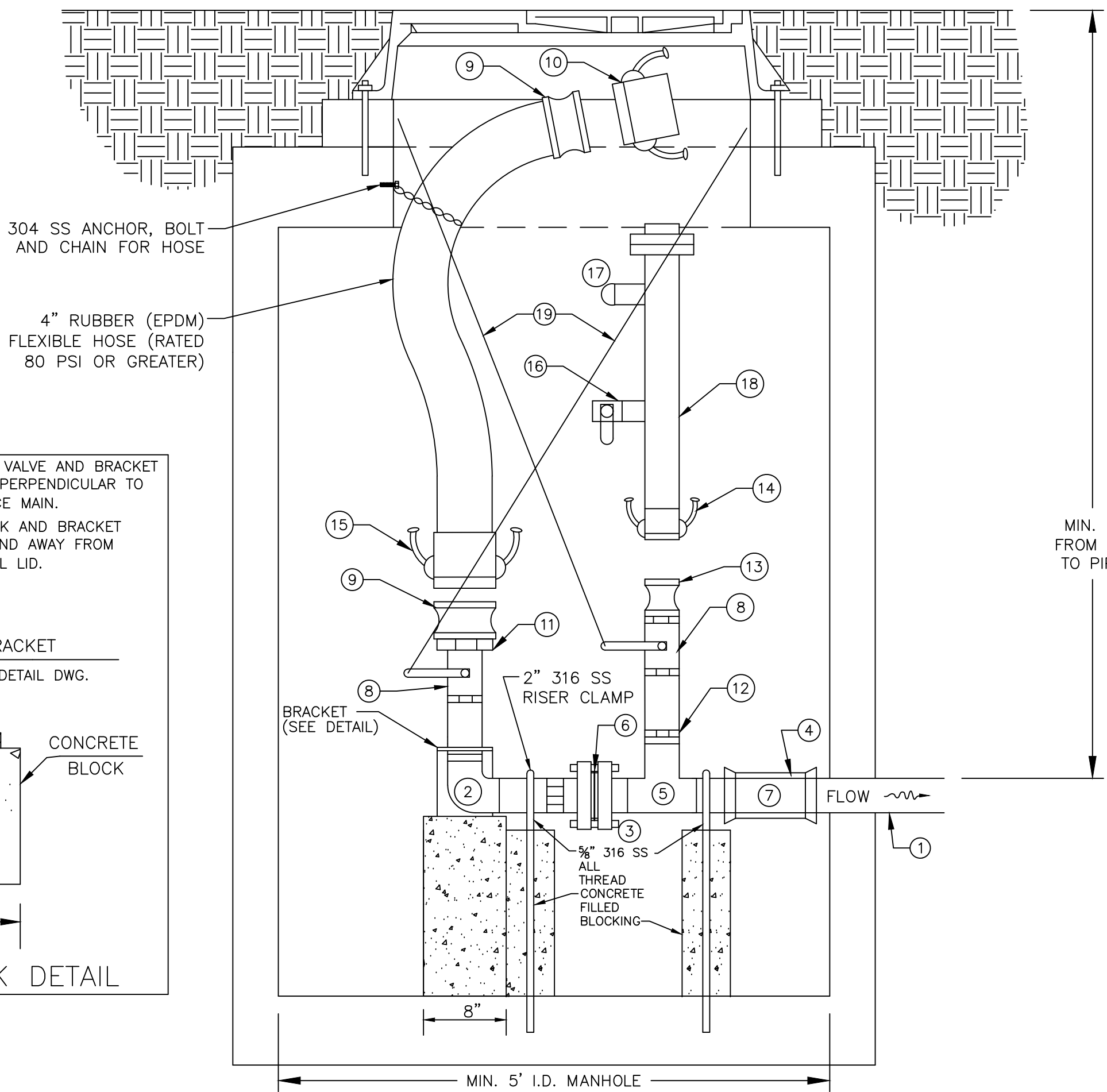
**PROP. MH 23 DETAIL PLAN**  
SCALE: 1"=2'  
SEE SHEET 25

**MATERIAL LIST - ALL MATERIAL TO BE 316 STAINLESS STEEL**

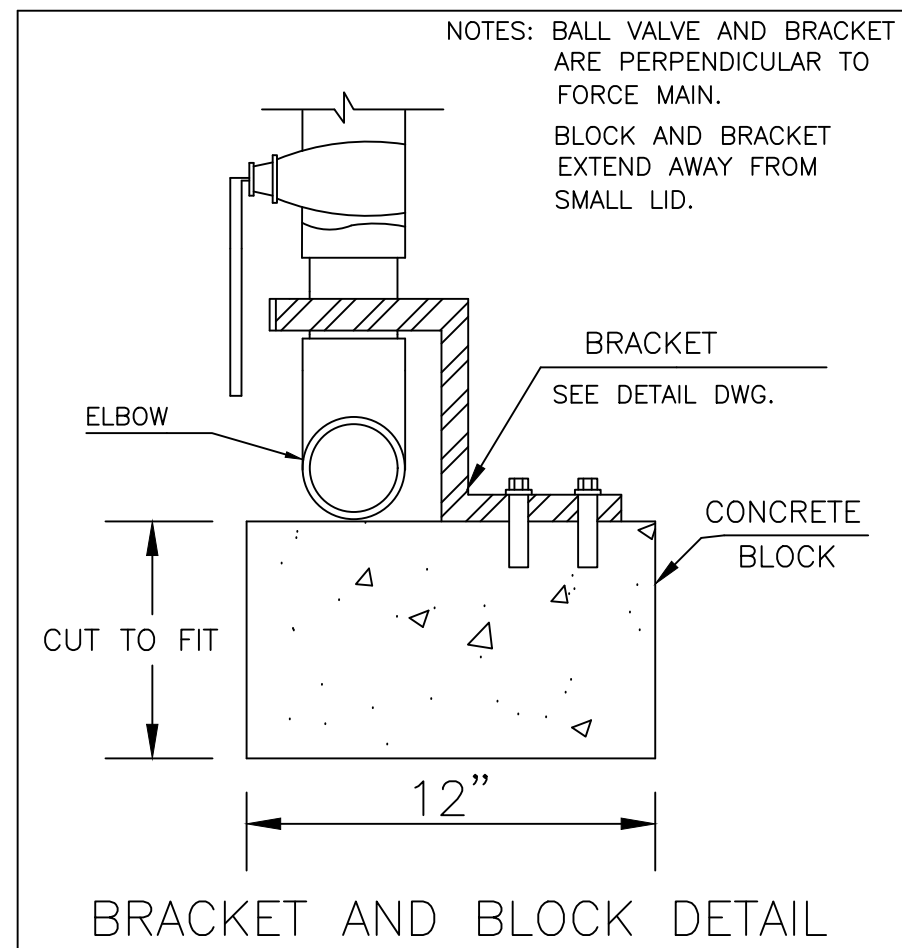
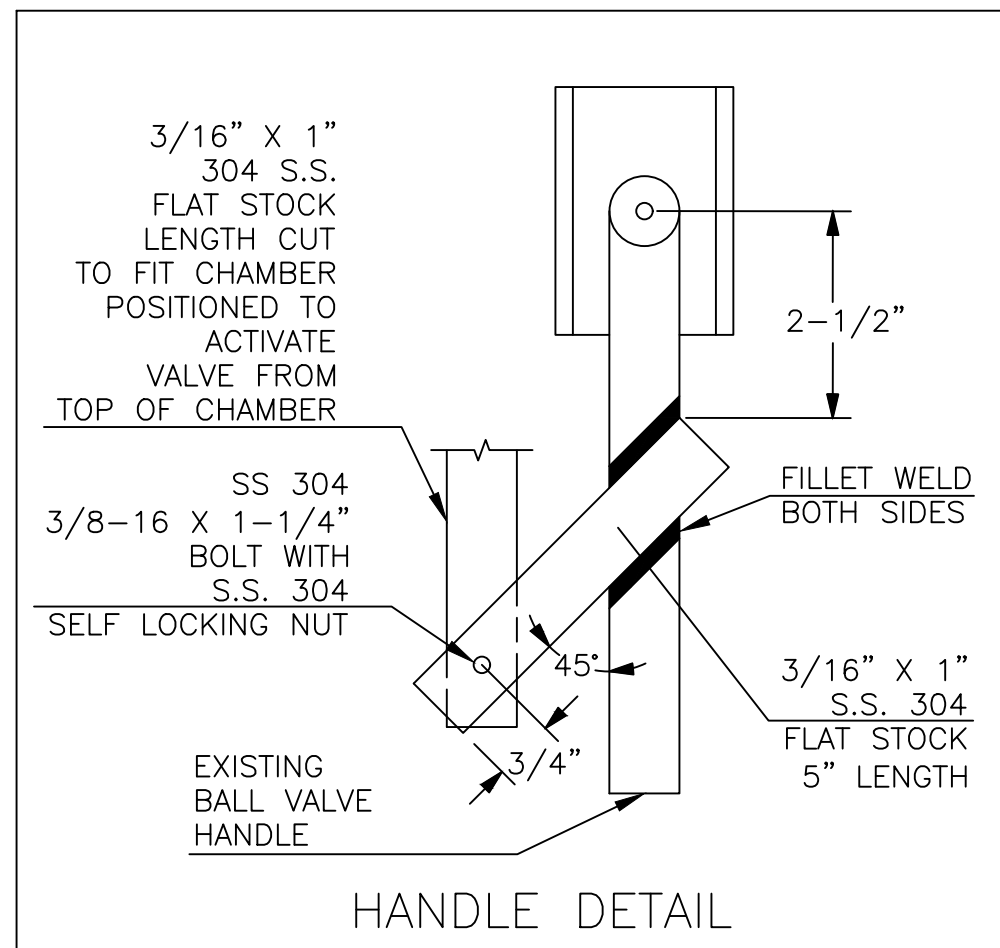
- 2" SCHEDULE 40 PVC SOCKET FEMALE ADAPTER OR HDPE EQUIVALENT
- 2" 90° ELBOW
- FLANGES WITH HEX HEAD CAP SCREW 5/8" x 3-1/2"  
18-8 SS WITH 18-8 WASHER AND 18-8 5/8"-11 NYLOCK NUT
- 2" THREADED PIPE CUT TO LENGTH
- 2"x2"x2" TEE
- 1/8" RUBBER GASKET
- ROMAC MODEL #511 EPOXY COATED WITH SS HARDWARE
- 2" FULL PORT BALL VALVE
- 4" MALE CAMLOCK
- 4" DUST CAP
- 2"x4" REDUCER
- 2" NIPPLE
- 2" MALE CAMLOCK
- 2" FEMALE CAMLOCK WITH HITCH PINS INSTALLED IN LOCK POSITION
- 4" FEMALE CAMLOCK WITH HITCH PINS INSTALLED IN LOCK POSITION
- 1" FULL PORT BALL VALVE
- 1" PIPE CAP
- VENT-TECH OR VENT-O-MAT AIR RELEASE VALVE
- VALVE ACTIVATION HANDLES (SEE DETAIL)



**CONTRACT DRAWING**  
PRINTS NOT BEARING THIS STAMP WERE MADE PRIOR TO ADVERTISING FOR BIDS AND ARE TO BE CONSIDERED OBSOLETE FOR CONTRACT PURPOSES.



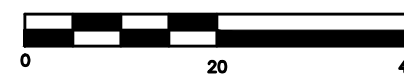
**2 INCH TERMINAL AIR RELEASE VALVE (ARV) AND FLUSHING MANHOLE**  
NOT TO SCALE



**PROPOSED SANITARY SEWER NO. SS 5933**

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SCALE: HORIZ. 1"=20'  
VERT. 1"=10'



**NOTES & DETAILS**

PLAN

ACC. NO. 78260

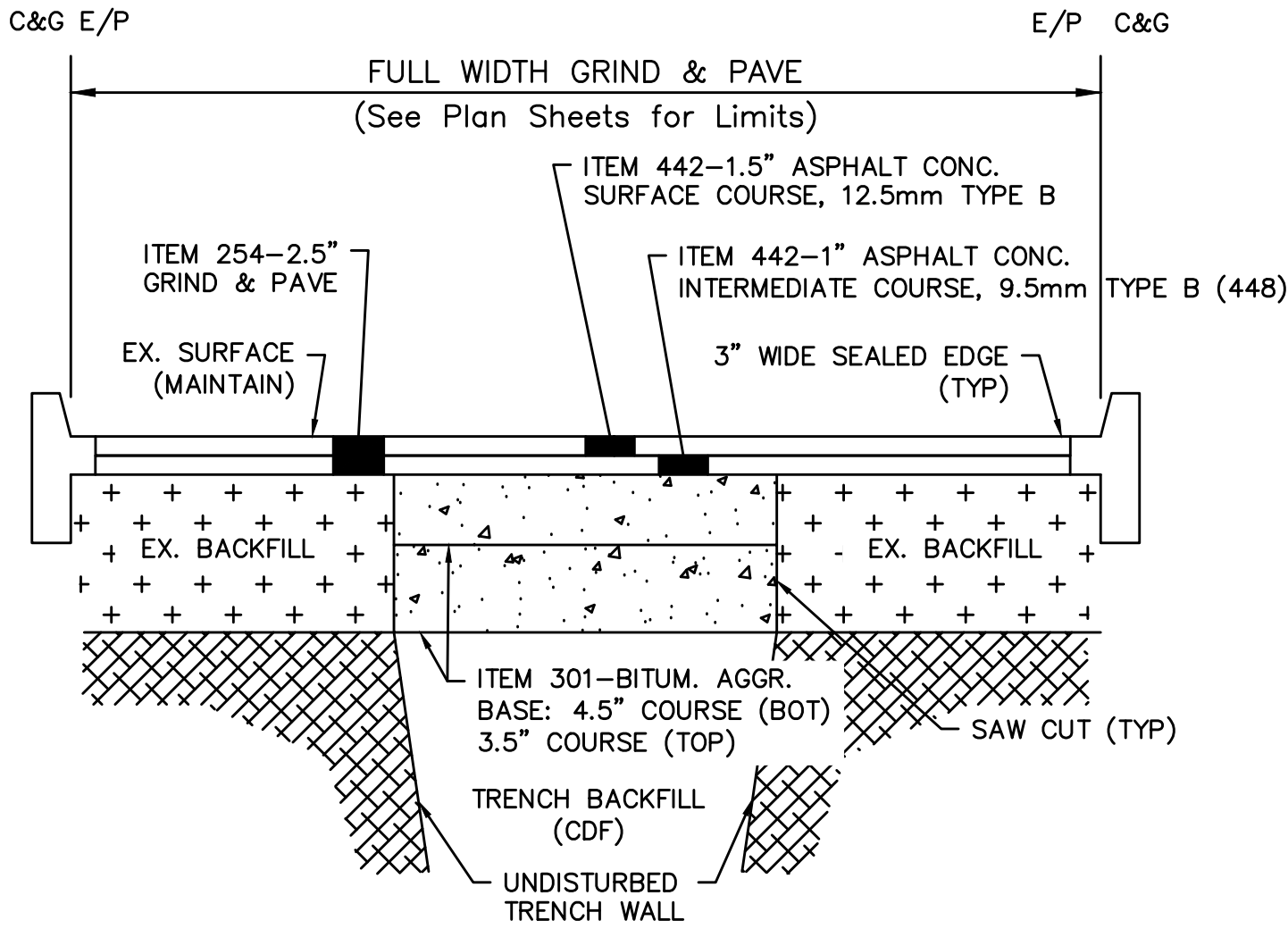
SHEET 32 OF 34

SS# 5933

DETAILS



PATH: N:\J085\2018\18026 - KENWOOD HILLS LOCAL SEWER - JUNE10\WATER\_WASTEWATER\600 CAD\BASE\AS BUILT\RA CONSULTANTS KENWOOD\_AS BUILT.DWG  
DATE: Nov 13, 2025 - 09:40 AM  
PLOTTED BY: RMCLEAN



HCEO ROADWAY NOTES:

- SAW CUT FULL DEPTH PAVEMENT WITH WET DIAMOND BLADE SAW. VERMEER WILL NOT BE PERMITTED.
- VERTICAL FACE OF EXISTING PAVEMENT SHALL BE CLEANED BY COMPRESSED AIR AND WETTED PRIOR TO PLACING CONCRETE.
- PLACE AND COMPACT ASPHALT CONCRETE SURFACE COURSE IN ACCORDANCE WITH ODOT CMS ITEM 401.
- ITEM 702.04-EDGES OF NEW ASPHALT SURFACE COURSE SHALL BE SEALED WITH A UNIFORM 3" WIDTH OF HOT APPLIED ASPHALT BINDER.
- IF THE PROPOSED PAVEMENT WIDTH IS GREATER THAN 3'-0", THE CONTRACTOR HAS THE OPTION TO USE ODOT CMS ITEM 301-ASPHALT CONCRETE BASE.
  - ASPHALT CONCRETE BASE MUST BE PLACED AND COMPACTED IN TWO EQUAL LIFTS, THE TOTAL THICKNESS OF ASPHALT BASE SHALL BE 8".
  - PRIOR TO PLACING THE ASPHALT BASE, ALL VERTICAL SURFACE SHALL BE CLEANED AND COATED WITH BITUMINOUS MATERIAL IN ACCORDANCE WITH ODOT 407.02.
- BUTT JOINTS ARE NECESSARY AT INTERSECTING STREETS.
- ALL CASTING ADJUSTMENTS, REMOVAL OF PAVEMENT MARKERS, AND THE INSTALLATION OF NEW LINE STRIPING AND MARKERS SHALL BE INCLUDED.
- ALL NECESSARY DRIVEWAY ADJUSTMENTS AND SEALING SHALL ALSO BE INCLUDED. THERE WILL BE NO ADDITIONAL COMPENSATION FOR PAVING WORK; ALL COST ASSOCIATED WITH PAVING AND DRIVEWAYS SHOULD BE INCLUDED IN THE BID PRICE UNDER INSTALLATION OF 8" SEWER CONDUIT.

HCEO DRIVEWAY NOTES:

REGULATED HAMILTON COUNTY ENGINEERS OFFICE DETAILS (SEE HCEO "DRIVEWAY RULES AND REGULATIONS" MANUAL ([http://www.hamilton-co.org/engineer/permits\\_manuals.htm](http://www.hamilton-co.org/engineer/permits_manuals.htm))

- PLATE 13 - TEMPORARY PAVEMENT RESTORATION
- PLATE 15 - TYPICAL RESTORATION SECTIONS
- PLATE 30 - TRENCH PLATES

PIPE ALTERNATES  
(SEE PROFILE VIEW CONDUIT LABELS)

|                                 |                                                                                                                                                                                                                 |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| *                               | <ul style="list-style-type: none"><li>PVC SDR 35 (ASTM D3034) w/ FLEXIBLE ELASTOMERIC SEALS (ASTM D3212)</li><li>DUCTILE IRON PIPE (ASTM A746) w/ PUSH-ON JOINTS (AWWA C111)</li></ul>                          |
|                                 |                                                                                                                                                                                                                 |
| LPFM (INSTALLED PER ASTM D3211) | <ul style="list-style-type: none"><li>HDPE DR11 (ASTM D3035) IPS w/ BUTT FUSION JOINTS (ASTM F1055) AND MOLDED FITTINGS (ASTM 3261)</li></ul>                                                                   |
|                                 | <ul style="list-style-type: none"><li>PVC SDR 21 PIPE AND FITTINGS (ASTM D2241) w/ FLEXIBLE ELASTOMERIC SEALS (ASTM D3139); ALL FITTINGS SHALL BE RESTRAINED AND CONFORM TO THE REQUIREMENTS OF SDR21</li></ul> |

UTILITY CONTACT INFORMATION

ELECTRIC: DUKE ENERGY  
139 EAST FOURTH STREET, ROOM 467A  
CINCINNATI, OHIO 45202  
MR. CONAN GIBSON  
(513) 287-4653  
conan.gibson@duke-energy.com

GAS: DUKE ENERGY  
139 EAST FOURTH STREET, ROOM 406A  
CINCINNATI, OHIO 45202  
MR. RICHARD HACKER  
(513) 287-4653  
richard.hacker@duke-energy.com

TELEPHONE: ALTA FIBER  
221 EAST FOURTH STREET, BLDG. 121-900  
P.O. BOX 2301  
CINCINNATI, OHIO 45201-2301  
MR. BRECK COWEN  
(513) 565-7187  
breck.cowen@altafiber.com

SANITARY: METROPOLITAN SEWER DISTRICT  
OF GREATER CINCINNATI  
1600 GEST STREET  
CINCINNATI, OHIO 45204  
MR. DANIEL ANDERSON  
(513) 582-0475  
daniel.anderson@cincinnati-oh.gov

WATER: GREATER CINCINNATI WATER WORKS  
4747 SPRING GROVE AVENUE  
CINCINNATI, OHIO 45232  
MR. RICK RIESS  
(513) 591-5058  
rick.riess@gcww.cincinnati-oh.gov

CABLE: SPECTRUM/TIME WARNER CABLE  
11252 CORNELL PARK DRIVE  
CINCINNATI, OHIO 45242  
MR. JIM O'REILLY  
(513) 386-5483  
Jim.O'Reilly@charter.com

DUKE ENERGY NOTES TO CONTRACTOR:

CONTRACTOR SHALL CONTACT THE COMPANY PRIOR TO EXCAVATION IN THE VICINITY OF ELECTRIC UNDERGROUND FACILITIES OR WHEN WORKING IN CLOSE PROXIMITY OF OVERHEAD ELECTRIC FACILITIES.

- FOR FIELD INSPECTOR TO LOCATE UNDERGROUND ELECTRIC LINES: IN OHIO, CALL "OHIO UTILITIES PROTECTION SERVICE", 1-800-362-2764; IN KENTUCKY, CALL "KENTUCKY DIG SAFELY", 1-800-752-6007. THESE CALLS SHOULD BE MADE AT LEAST 48 HOURS IN ADVANCE, EXCLUDING SATURDAYS, SUNDAYS, AND STATE LEGAL HOLIDAYS.
- FOR NOTIFICATION OF CONSTRUCTION ACTIVITY NEAR ENERGIZED ELECTRIC FACILITIES OR NEEDING A POLE SUPPORTED, CALL (513) 421-9500. WITHIN 2 DAYS A REPRESENTATIVE FROM OUR CONSTRUCTION DIVISION WILL CONTACT THE CUSTOMER AND VERIFY THE LOCATION AND CONDITIONS OF THE JOB SITE. AFTER THIS CONTACT HAS BEEN MADE, A LINE CREW WILL BE OUT TO COVER UP ELECTRIC LINES OR HOLD THE POLE WITHIN 2 TO 3 DAYS.
- FOR ADDITIONAL UNDERGROUND ELECTRIC RECORD INFORMATION CALL (513) 287-2454.
- FOR ELECTRIC ENGINEERING NOTIFICATION, AGREEMENTS AND CORRESPONDENCE, ADDRESS TO: MR. TOM BIRKENHAUER, DUKE ENERGY CORPORATION, DISTRIBUTION DESIGN ENGINEERING, ROOM 467A, 139 E. FOURTH STREET, P.O. BOX 960 CINCINNATI, OHIO 45202-0960

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO ELECTRIC FACILITIES DURING CONSTRUCTION.

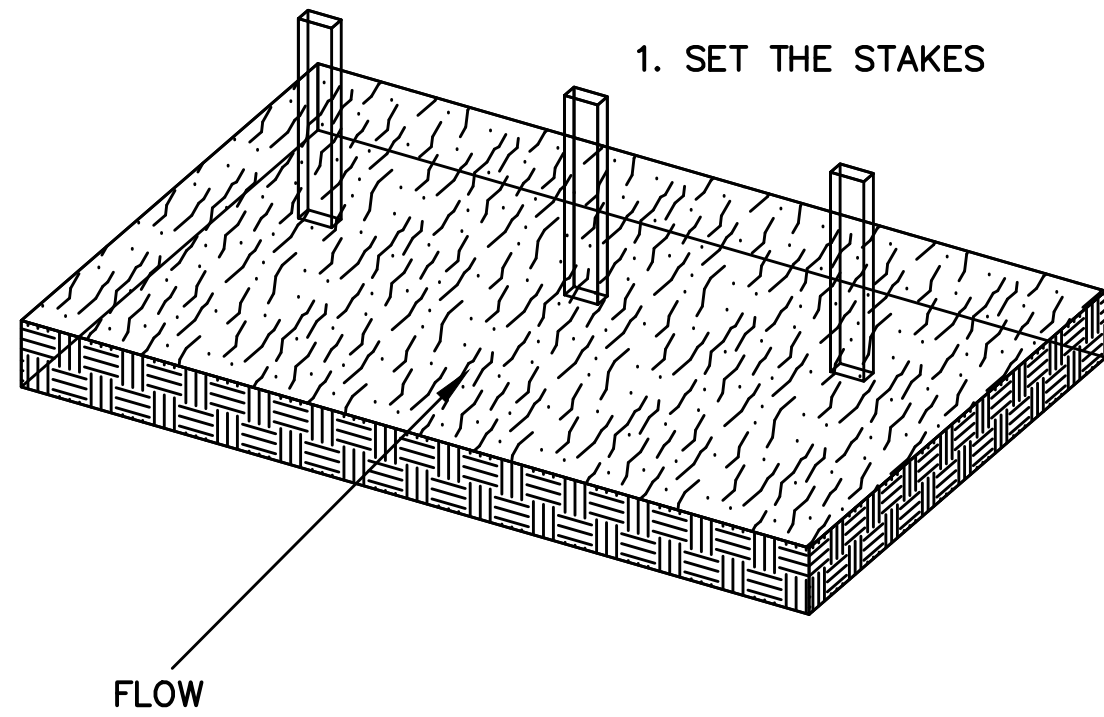
ELECTRIC FACILITIES TO BE KEPT IN SERVICE AT ALL TIMES.

CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPORTING EXISTING ELECTRIC FACILITIES AFFECTED BY THE PROPOSED CONSTRUCTION

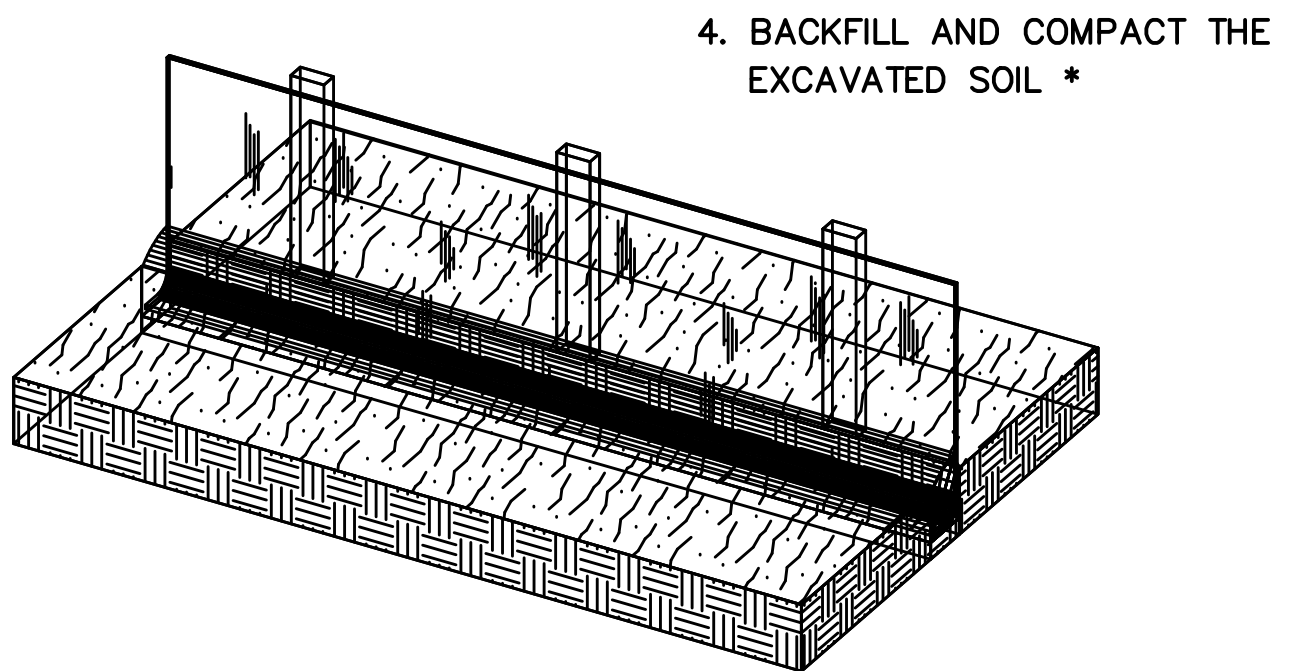
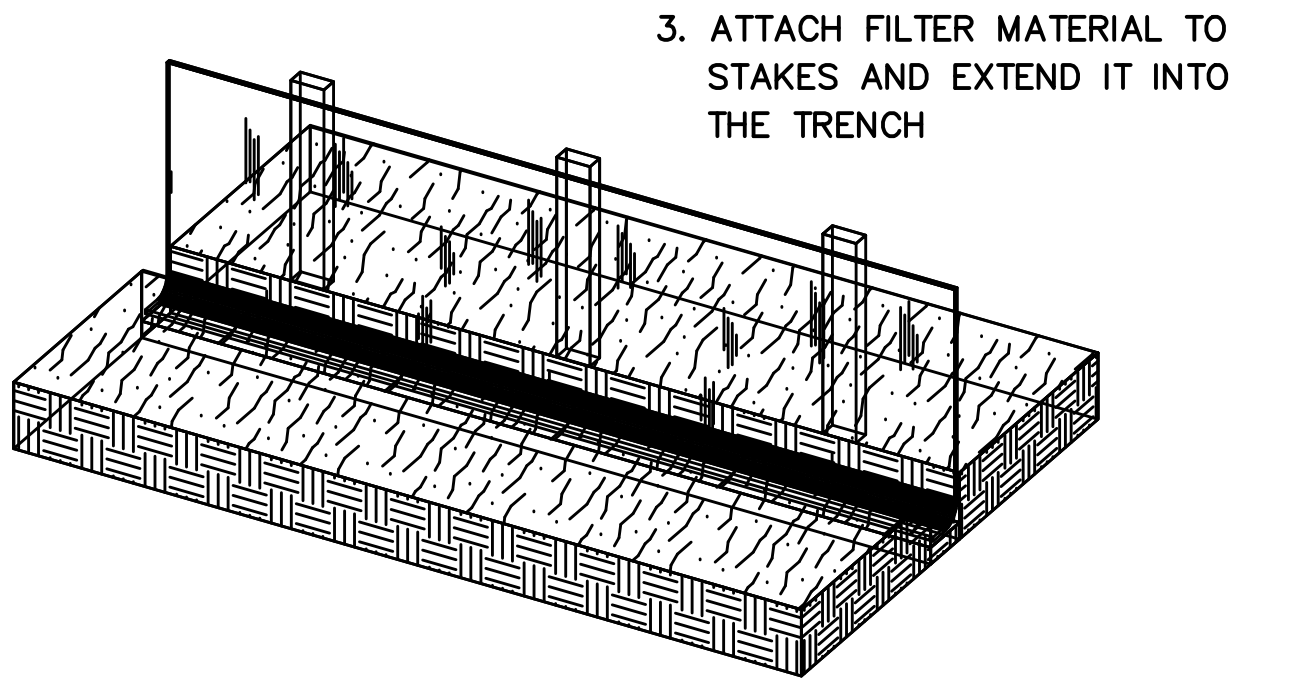
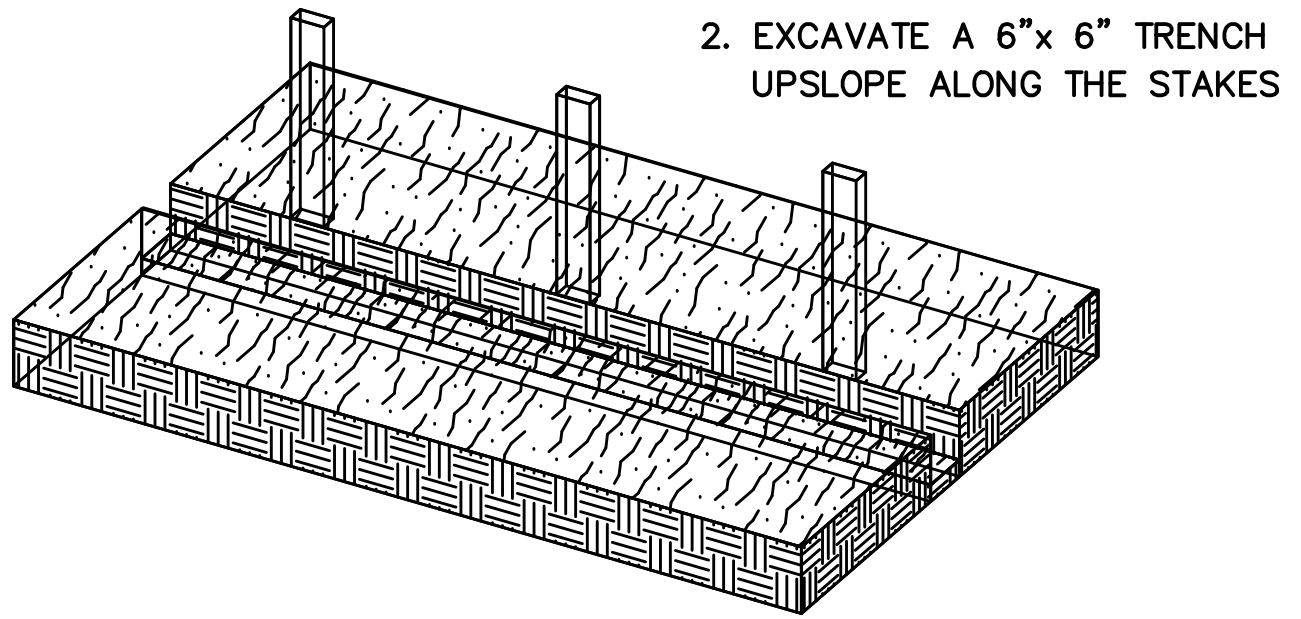
- WHERE HIGH PRESSURE OIL FILLED PIPE TYPE CABLE INSTALLATION ARE EXPOSED OR OTHERWISE INTERFERED WITH BY THE CONTRACTOR, PROTECTION BY THE CONTRACTOR WILL BE REQUIRED AGAINST DAMAGE TO THE COATING OR SURROUNDING THERMAL SAND ENVELOPE.
- WHERE CONCRETE ENCASED CONDUIT SYSTEMS OR DIRECT BURIED CABLE SYSTEMS ARE EXPOSED OR OTHERWISE INTERFERED WITH, THE CONTRACTOR SHALL PROTECT THE SYSTEM AS NECESSARY AGAINST DAMAGE. AS SOON AS FEASIBLE, THE CONTRACTOR SHALL TAKE ADDITIONAL APPROPRIATE STEPS TO PROVIDE PERMANENT MEASURES TO RESTORE SUPPORT. THE METHODS USED SHALL BE BASED ON CONDITIONS TO BE DETERMINED BY THE UTILITY.
- WHERE POLES OR ANCHORS THAT SUPPORT OVERHEAD ELECTRIC FACILITIES ARE EXPOSED OR OTHERWISE INTERFERED WITH, THE CONTRACTOR SHALL PROTECT THEM FROM DAMAGE AND PROVIDE TEMPORARY SUPPORT TO INSURE THE INTEGRITY OF THE SYSTEM. AS SOON AS FEASIBLE, THE CONTRACTOR SHALL TAKE ADDITIONAL APPROPRIATE STEPS TO PROVIDE PERMANENT MEASURES TO RESTORE SUPPORT. THE METHODS USED SHALL BE BASED ON CONDITIONS TO BE DETERMINED BY THE UTILITY.
- WHERE THE DEPTH OF EXCAVATION FOR THE PROPOSED WORK IS GREATER THAN FIVE (5) FEET, THE CONTRACTOR SHALL SHEET AND SHORE THE TRENCH TO CONTINUOUSLY MAINTAIN THE SUPPORT OF ELECTRIC FACILITIES AT LOCATIONS WHERE THE ELECTRIC FACILITIES ARE WITHIN THE ZONE OF INFLUENCE ADJACENT TO THE EXCAVATION AS DETERMINED BY THE NATURAL ANGLE OF RESPONSE OF THE SOIL.
- ALL DAMAGE TO ELECTRIC FACILITIES AND SERVICE REQUIRING ADJUSTMENTS, RELOCATION AND/OR REPAIRS WILL BE MADE AT THE CONTRACTOR'S COST.

CONTRACTOR SHALL NOT BACKFILL EXPOSED ELECTRIC FACILITIES UNTIL THE COMPANY HAS INSPECTED ITS FACILITY OR PERFORMED ANY ADJUSTMENTS AND/OR MAINTENANCE THAT MAY BE REQUIRED.

SHOULD CONTRACTOR DAMAGE ELECTRIC FACILITIES, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DUKE ENERGY CALL CENTER AT (513) 421-9500. CONTRACTOR SHALL KEEP EVERYONE CLEAR OF DAMAGED ELECTRIC FACILITIES UNTIL COMPANY PERSONNEL ARRIVE AT THE WORK SITE.

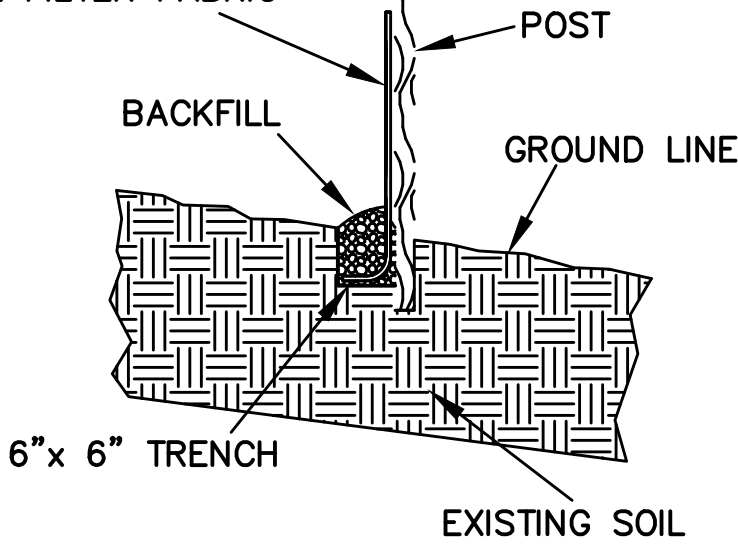


CONTRACT  
DRAWING  
PRINTS NOT BEARING THIS STAMP WERE  
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FOR CONTRACT PURPOSES.



STEEL "1" OR 4" POST  
ON 8' CENTERS  
WHERE NEEDED, STAKE ON  
4' CENTERS

FILTER FABRIC:  
EXTENDS INTO TRENCH  
WHEN NEEDED, USE  
DOUBLE FILTER FABRIC



\* SOIL COMPACTION IS CRITICAL  
TO ELIMINATE CHANNELING  
UNDER THE SILT FENCE

REINFORCED SILT FENCE INSTALLATION DETAIL

NOT TO SCALE

| DESIGNED BY: GEW | REVISIONS |       |              |
|------------------|-----------|-------|--------------|
|                  | BY:       | DATE: | DESCRIPTION: |
| DRAWN BY: DAJ    |           |       |              |
|                  |           |       |              |
|                  |           |       |              |
|                  |           |       |              |
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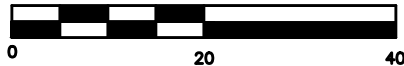
THE METROPOLITAN SEWER DISTRICT  
OF GREATER CINCINNATI  
HAMILTON COUNTY, OHIO



PROPOSED SANITARY SEWER NO. SS 5933

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CUL-DE-SAC OF MAPLE RIDGEDR AND VISTARIDGE DR TO THE CABANA CLUB DR ALONG COACHLITE

SCALE: HORIZ. 1"=20'  
VERT. 1"=10'

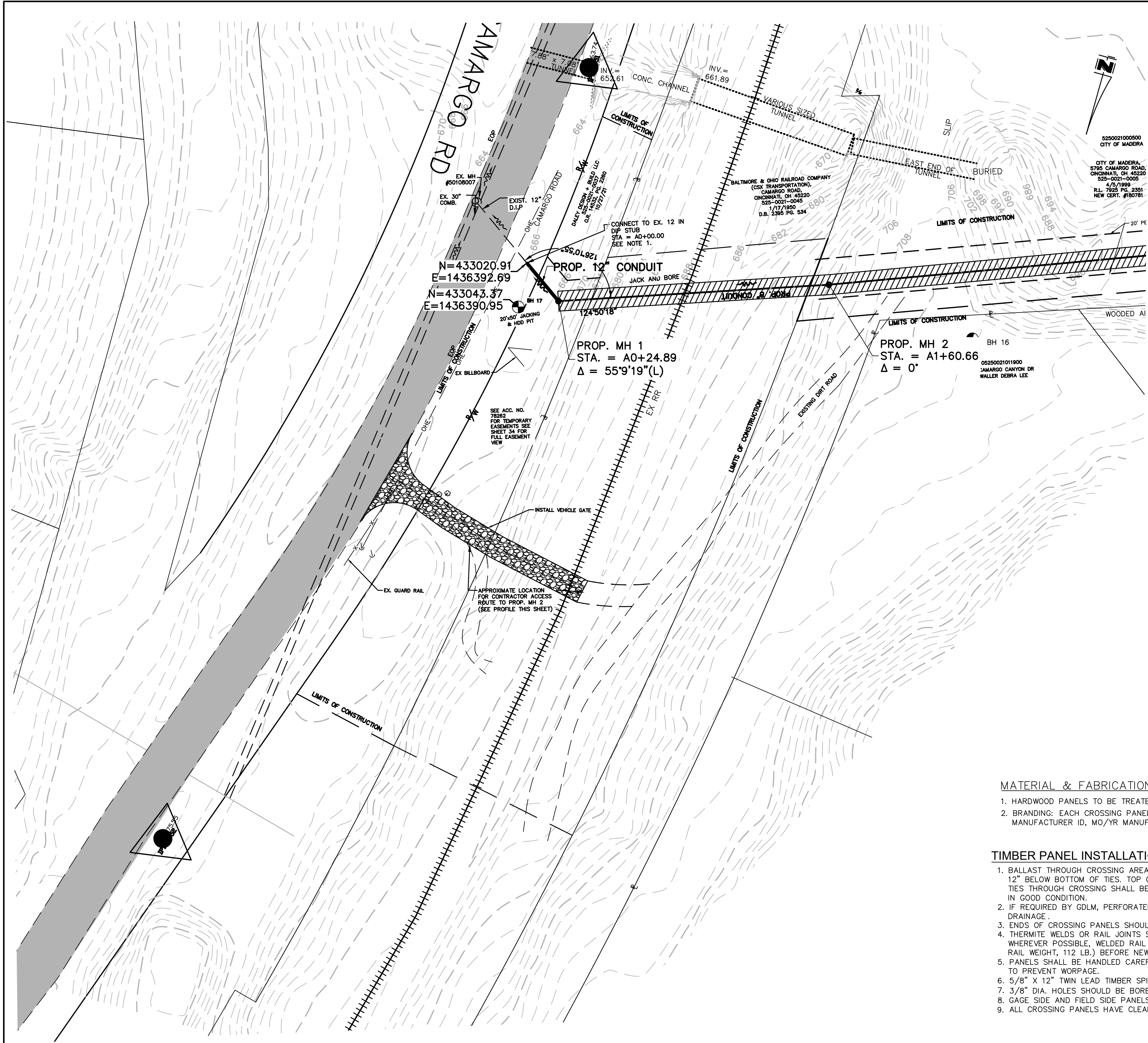


NOTES & DETAILS

PLAN

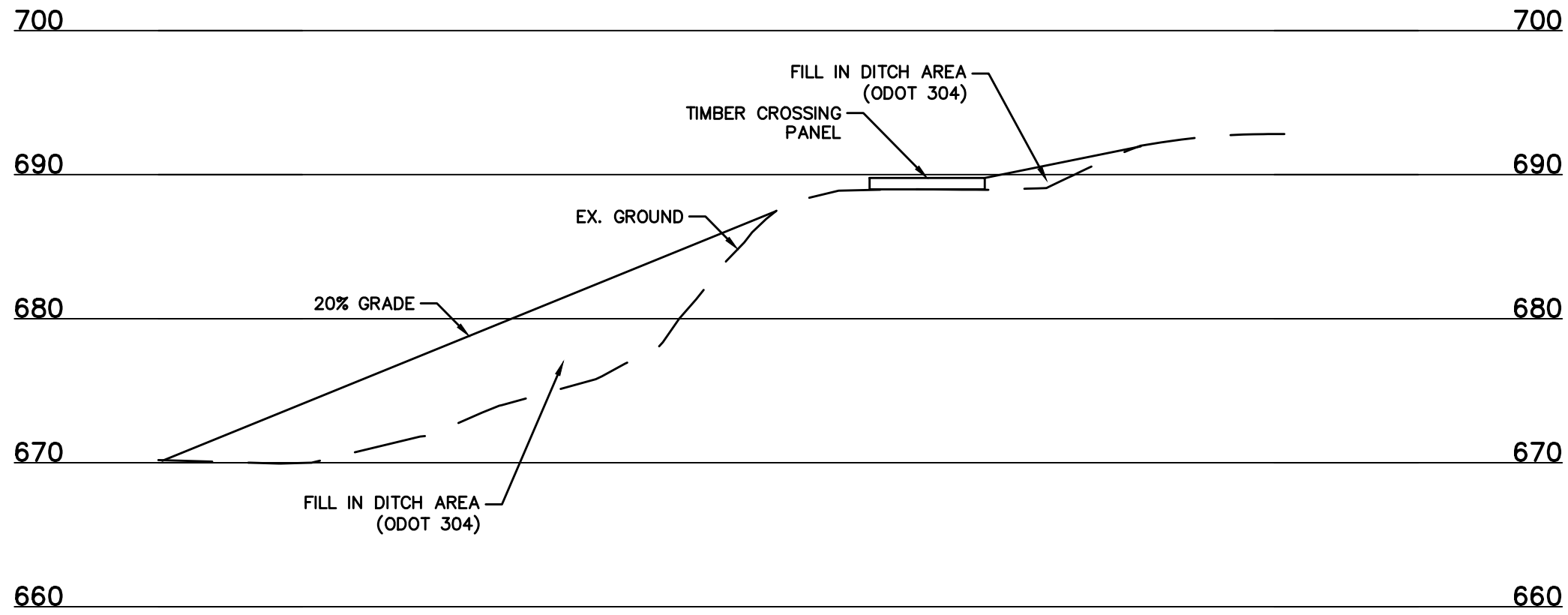


PATH: N:\005\2018\18926 - KENWOOD HILLS LOCAL SEWER - JUNE10\WATER\_WASTEWATER\600 CAD\SSM\BASE\AS BUILT\KENWOOD HILLS BASEMAP\_AS BUILT.DWG  
DATE: Nov 13, 2025 - 09:41 AM  
PLOTTED BY: RMCLEAN

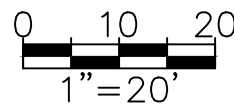


CONTRACT  
DRAWING

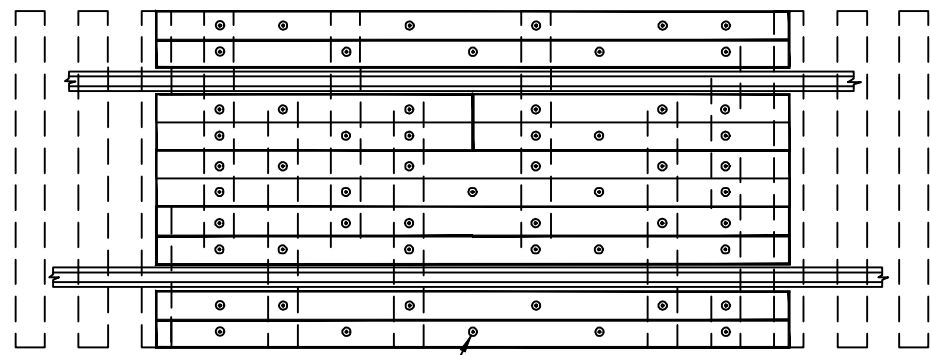
PRINTS NOT BEARING THIS STAMP WERE  
MADE PRIOR TO ADVERTISING FOR BIDS  
AND ARE TO BE CONSIDERED OBSOLETE  
FOR CONTRACT PURPOSES.



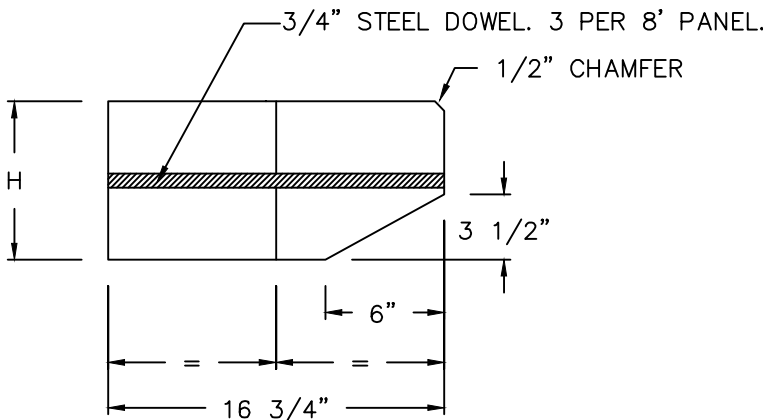
PROFILE OF ACCESS ROAD AT RAILROAD CROSSING



TYPICAL 16' CROSSING

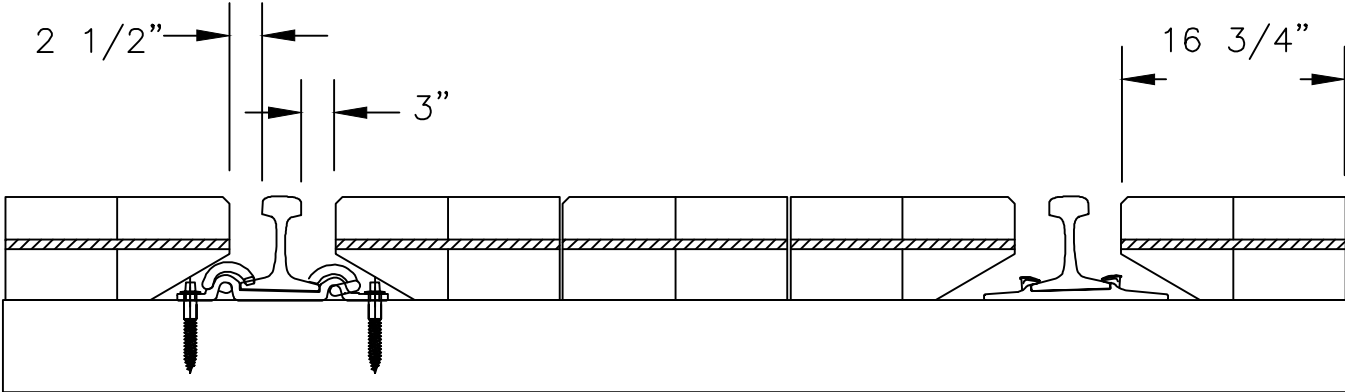


LOCATION TIMBER SPIKES  
8' & 16' PANELS SHOWN, TYPICAL



TWO PIECE PANEL

H = 7" FOR 100 LB RAIL  
H = 7 1/2" FOR 115 LB RAIL  
H = 8" FOR 136 LB RAIL



8'6" CROSS TIE

TIMBER CROSSING PANEL FOR  
LOW DENSITY RAIL TRAFFIC ON 8'-6" TIES

MATERIAL & FABRICATION

1. HARDWOOD PANELS TO BE TREATED MIXED HARDWOOD, FREE OF WANE.
2. BRANDING: EACH CROSSING PANEL SHALL BE IDENTIFIED ON THE END WITH MANUFACTURER ID, MO/YR MANUFACTURED, WEIGHT RAIL.

TIMBER PANEL INSTALLATION

1. BALLAST THROUGH CROSSING AREA SHALL BE CLEAN CRUSHED ROCK BALLAST, 12" BELOW BOTTOM OF TIES. TOP OF BALLAST TO BE 2" BELOW TOP OF TIES. TIES THROUGH CROSSING SHALL BE NO. 5 TREATED HARDWOOD 19 3/16" ON CENTERS, IN GOOD CONDITION.
2. IF REQUIRED BY GDLN, PERFORATED DRAINAGE PIPE RECOMMENDED FOR PROPER DRAINAGE.
3. ENDS OF CROSSING PANELS SHOULD BE CENTERED ON TIE.
4. THERMITE WELDS OR RAIL JOINTS SHOULD BE LOCATED OUTSIDE THE CROSSING. WHEREVER POSSIBLE, WELDED RAIL SHOULD BE RELAYED THROUGH CROSSING (MINIMUM RAIL WEIGHT, 112 LB.) BEFORE NEW TIES AND CROSSING PANELS ARE INSTALLED.
5. PANELS SHALL BE HANDLED CAREFULLY, SLATTED AND STACKED ON LEVEL GROUND TO PREVENT WORKPAGE.
6. 5/8" X 12" TWIN LEAD TIMBER SPIKES FURNISHED SEPARATELY.
7. 3/8" DIA. HOLES SHOULD BE BORED IN FIELD, TO PATTERN SHOWN.
8. GAGE SIDE AND FIELD SIDE PANELS ARE INTERCHANGEABLE.
9. ALL CROSSING PANELS HAVE CLEARANCE FOR PANDROL PLATES AND CLIPS.

| REVISIONS        |       |              |  |
|------------------|-------|--------------|--|
| BY:              | DATE: | DESCRIPTION: |  |
| DESIGNED BY: GEW |       |              |  |
| DRAWN BY: GAU    |       |              |  |
|                  |       |              |  |
|                  |       |              |  |
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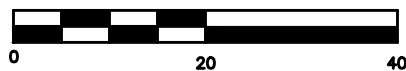
THE METROPOLITAN SEWER DISTRICT  
OF GREATER CINCINNATI  
HAMILTON COUNTY, OHIO



PROPOSED PROJECT NO. 10370025

FROM THE INT. OF KENWOOD HILLS DR. AND KENWOOD HILLS TO THE CABANA CLUB DR. FROM  
THE CUL-DE-SAC OF MAPLE RIDGE DR AND VISTA RIDGE DR TO THE CABANA CLUB DR ALONG  
COACHLITE

SCALE HORIZ. 1"=30'



RAILROAD ESMT

PLAN AND PROFILE

ACC. NO. 78261

SHEET 34 OF 34

SS# 5933