

LINCOLN CHARTER TOWNSHIP

BERRIEN COUNTY, MICHIGAN

WEST GLENLORD ROAD SANITARY SEWER PROJECT

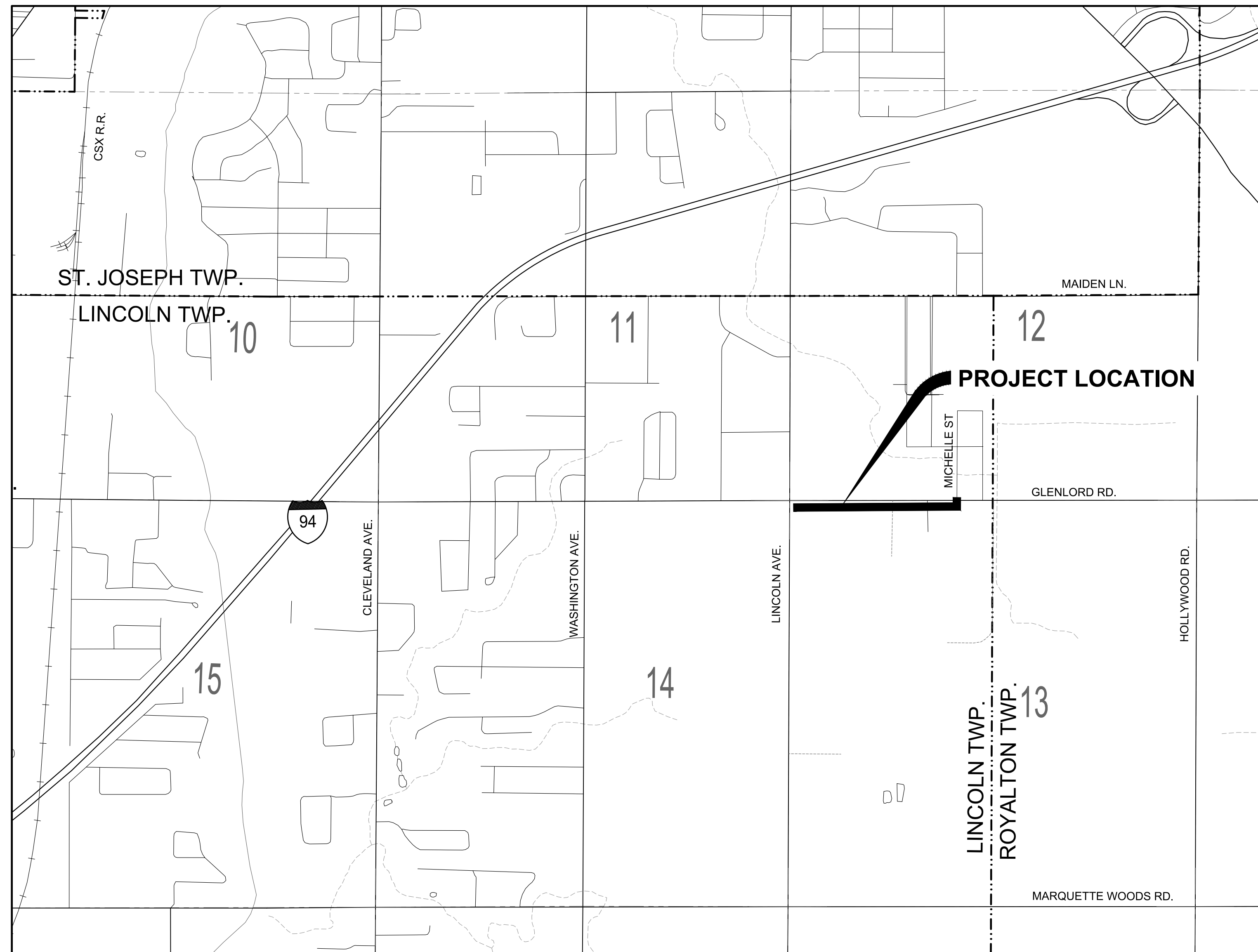
INDEX OF SHEETS

- 1 COVER SHEET
- 2-6 SANITARY PLAN & PROFILE
- 7 FORCEMAIN PLAN & PROFILE
- 8 CONSTRUCTION & SESC DETAILS



LINCOLN CHARTER TOWNSHIP

SITE LOCATION



MICHIGAN GAS UTILITIES - NATURAL GAS
 711 STARLITE DR.
 BENTON HARBOR, MI 49022
 SCOTT PURUCKER
 269-927-5537

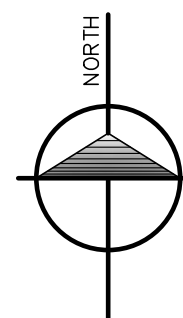
AT&T ENGINEERING - TELEPHONE & FIBER OPTICS
 1435 MILTON ST.
 BENTON HARBOR, MI 49022
 CHRIS O'BRIAN
 269-926-0232

AEP - ELECTRIC
 KURT SCHNEIDER
 2425 MEADOWBROOK RD
 BENTON HARBOR, MI 49022
 269-926-0683

LINCOLN CHARTER TOWNSHIP - SEWER
 GEORGE GAUNDER
 2055 W. JOHN BEERS RD.
 STEVENSVILLE, MI 49127
 269-429-1589



VICINITY MAP
 NOT TO SCALE



FOR PROTECTION OF UNDERGROUND UTILITIES, AND IN CONFORMANCE WITH PUBLIC ACT 53, 1974, THE CONTRACTOR SHALL CALL TOLL FREE 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. ALL "MISS DIG" PARTICIPATING MEMBERS WILL BE THUS ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR FROM NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" SYSTEM.

NO.	ISSUED FOR	BY	DATE
1.	OWNER REVIEW	BM	6/11/24
2.	PERMITS/BID	BM	7/22/24

LINCOLN CHARTER TOWNSHIP
 BERRIEN COUNTY, MICHIGAN
 WEST GLENLORD ROAD PROPOSED SANITARY SEWER
 COVER SHEET

DESIGNED BY	DATE	DRAWN BY	DATE	CHECKED BY	DATE
B. MIERAS	7/2024	D. HUDELSON	7/2024	B. MIERAS	7/22/24

PROJECT: 204094.75
 FILE: Pit-CS.dwg

1
SHEET NO.

NO.	ISSUED FOR	DATE
1.	OWNER REVIEW <td>6/11/24</td>	6/11/24
2.	PERMITS/BD <td>7/22/24</td>	7/22/24

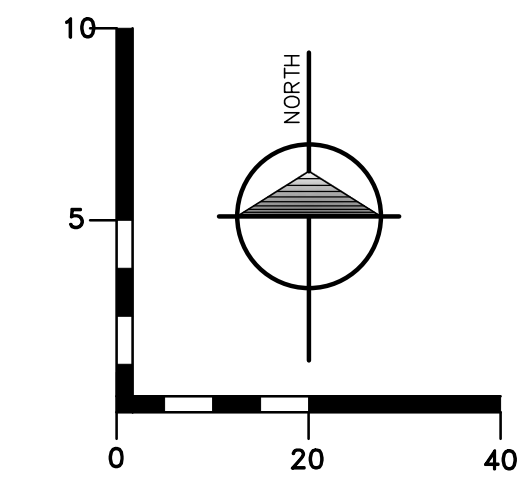
**LINCOLN CHARTER TOWNSHIP
 BERRIEN COUNTY, MICHIGAN
 WEST GLENLORD ROAD PROPOSED SANITARY SEWER
 SANITARY PLAN & PROFILE POB TO STA 14+50**

DESIGNED BY	DATE	DRAWN BY	DATE	CHECKED BY	DATE
B MIERAS	7/2024	D HUELSON	7/2024	B MIERAS	7/22/24

PROJECT: 204094.75
 FILE: Pit-PlanProf.dwg
2
 SHEET NO.

BENCHMARK INFORMATION

BM#1) ELEV: 631.60'
 RAILROAD SPIKE ON EAST SIDE OF
 POWER POLE, AT SOUTHWEST CORNER OF
 GLENLORD RD. AND LINCOLN AVE.

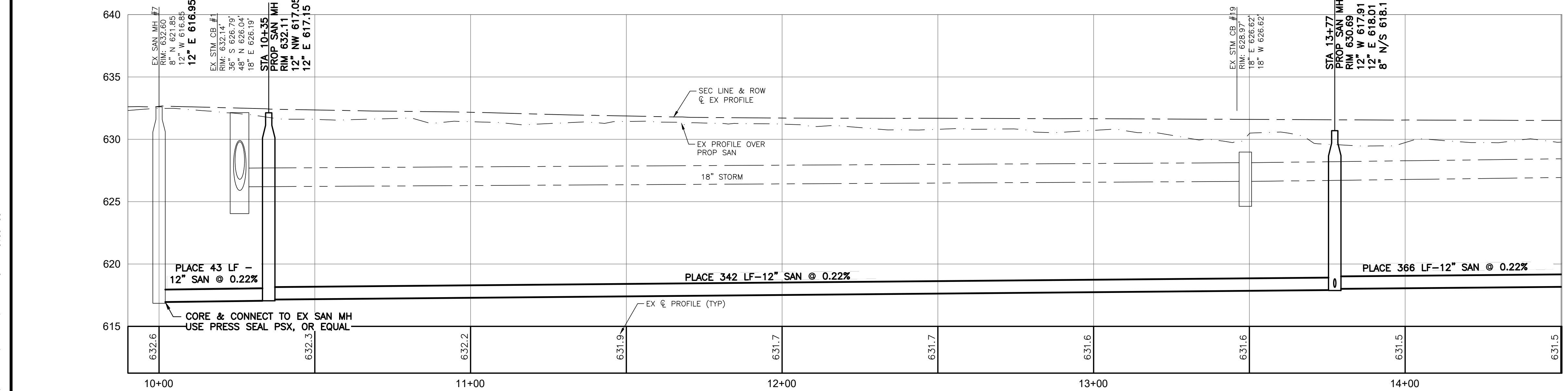
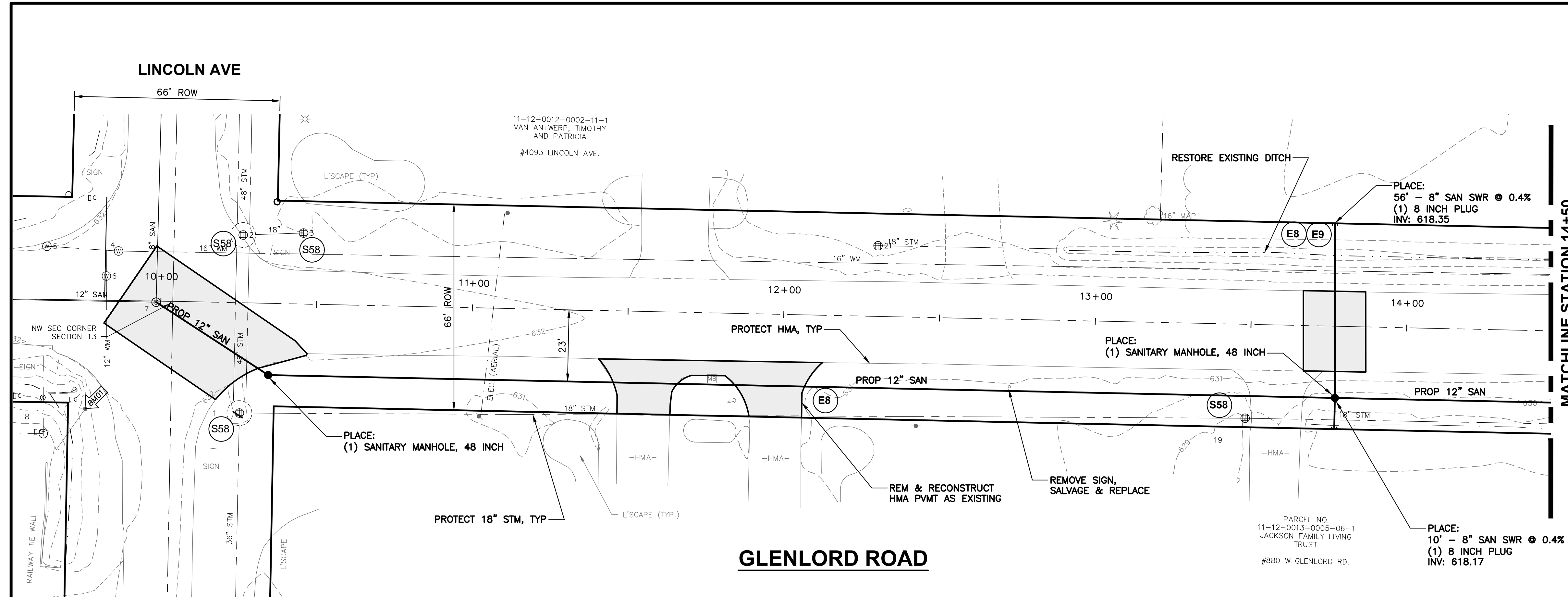


LEGEND

- - PROPOSED MANHOLE
- - PROPOSED SANITARY SEWER
- - PROPOSED FORCEMAIN
- - - - EXISTING STORM SEWER
- - - - EXISTING SANITARY SEWER
- - - - EXISTING WATER MAIN
- - - - EXISTING DITCH LINE
- ▭ - PROPOSED HMA TO MATCH EXISTING GRADE & MATERIALS. LIMITS ARE APPROXIMATE. REMOVE & REPLACE AS REQUIRED FOR PROPOSED SANITARY SEWER
- ▨ - REMOVE & REPLACE EX GRAVEL. MATCH EXISTING GRADE & MATERIALS
- ⊙ E8 - APPLIES IN ALL DISTURBED, NON-PAVED AREAS
- ⊙ E9 - MULCH BLANKET
- ⊙ S58 - INLET PROTECTION FABRIC DROP

GENERAL NOTES

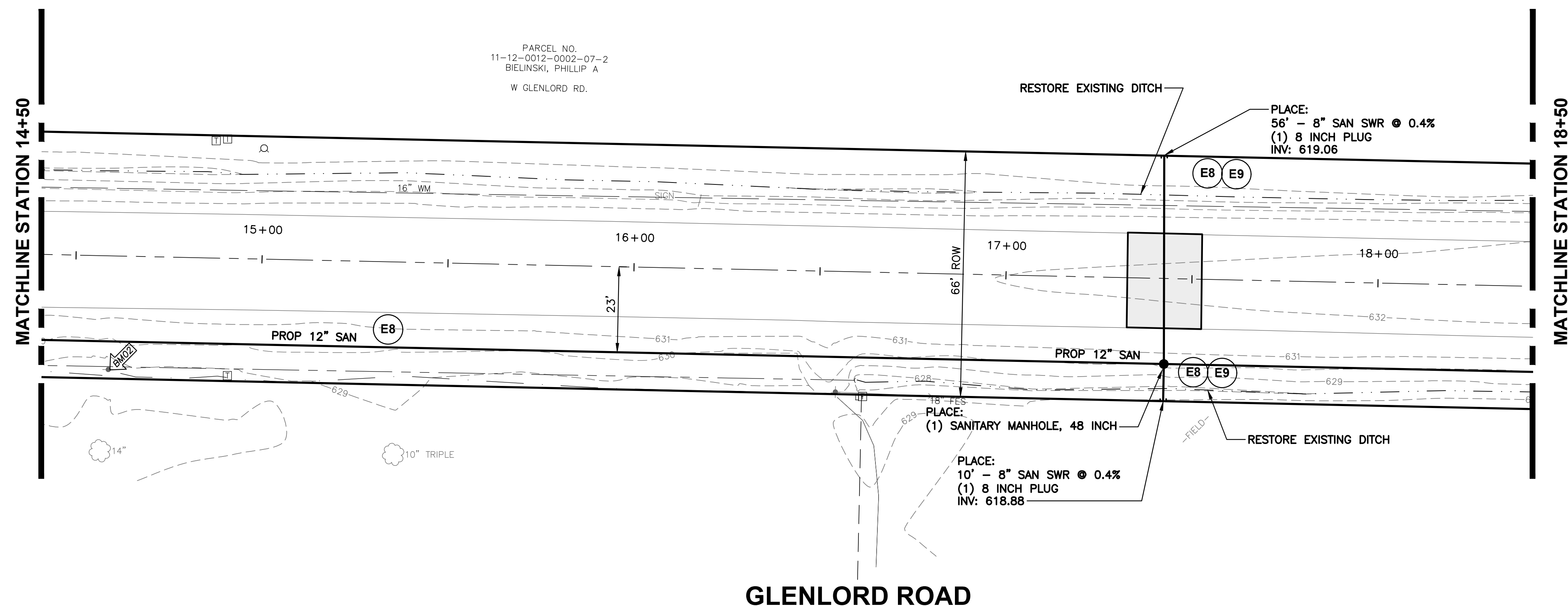
1. SANITARY SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH BERRIEN COUNTY AND LINCOLN CHARTER TOWNSHIP STANDARDS & SPECIFICATIONS.
2. SANITARY SEWER PIPE SHALL BE PVC SDR-35, SANITARY LATERALS SHALL BE PVC SCH 40
3. LENGTHS OF SANITARY SEWER OR SERVICE AS SHOWN ARE FROM CENTER TO CENTER OF STRUCTURE OR CLEANOUT.
4. MANHOLES SHALL BE PRECAST CONCRETE WITH RUBBER "O" RING AT JOINTS. SANITARY MANHOLES SHALL HAVE INTEGRAL CONCRETE MANHOLE BOTTOMS.
5. MANHOLE PIPE CONNECTIONS SHALL BE FURNISHED WITH AN INTEGRALLY CAST SEAL SYSTEM, EQUAL TO "PRESS WEDGE 11", "KOR-N-SEAL", "LOCK JOINT FLEXIBLE MANHOLE SLEEVE", OR EQUAL.
6. THE CONTRACTOR SHALL MAKE ANY NECESSARY ADJUSTMENTS WITH CONCRETE ADJUSTING RINGS USING A NON-SHRINK GROUT, WITH A MAXIMUM ADJUSTMENT OF 12 INCHES ON TOP OF THE PRECAST CONE SECTION.
7. SEE SHEET 7 FOR SANITARY SEWER DETAILS.
8. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE DESIGN ENGINEER WITH ONE CLEAN SET OF RED-LINE MARK-UPS SHOWING THE AS-BUILT RIM AND INVERT ELEVATIONS OF ALL SANITARY SEWER STRUCTURES AND PIPES ENTERING THE MANHOLES. MARK-UPS SHOULD INCLUDE WITNESS DIMENSIONS FROM PERMANENT SURFACE FEATURES TO UNDERGROUND PIPE TERMINATIONS.
9. IN ADDITION, THE CONTRACTOR SHALL BE REQUIRED TO FURNISH TO LINCOLN CHARTER TOWNSHIP, A MAP INDICATING THE PRECISE LOCATION OF ALL SANITARY SEWER LATERALS AT THE PROPERTY LINE INTERSECTION.
10. SLOPES GREATER THAN 1:4 SHALL BE STABILIZED WITH NORTH AMERICAN GREEN DS-75 EROSION CONTROL BLANKET OR APPROVED EQUAL, UNLESS NOTED OTHERWISE. ALL STORM WATER CHANNELS AND DITCHES SHALL BE STABILIZED WITH NORTH AMERICAN GREEN SC-250 PERMANENT EROSION CONTROL BLANKET OR APPROVED EQUAL, UNLESS NOTED OTHERWISE. BLANKETS TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.



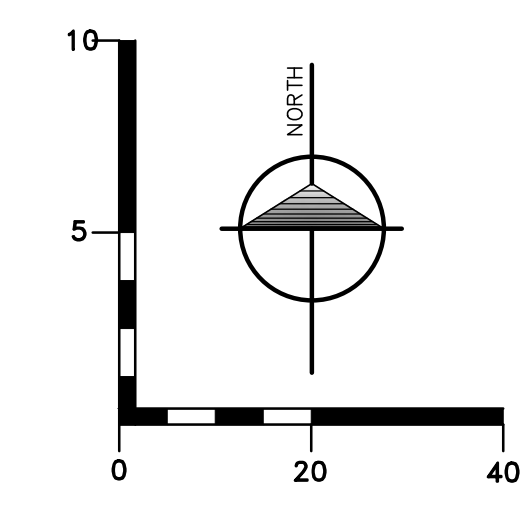
THE CONTRACTOR IS CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT RELIED ON TO BE EXACT OR COMPLETE. FOR PROTECTION OF UNDERGROUND UTILITIES, AND IN CONFORMANCE WITH PUBLIC ACT 53, 1974, THE CONTRACTOR SHALL CALL TOLL FREE 1-800-482-7171 OR 811, A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. ALL "MISS DIG" PARTICIPATING MEMBERS WILL BE THUS ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR FROM NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" SYSTEM. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.



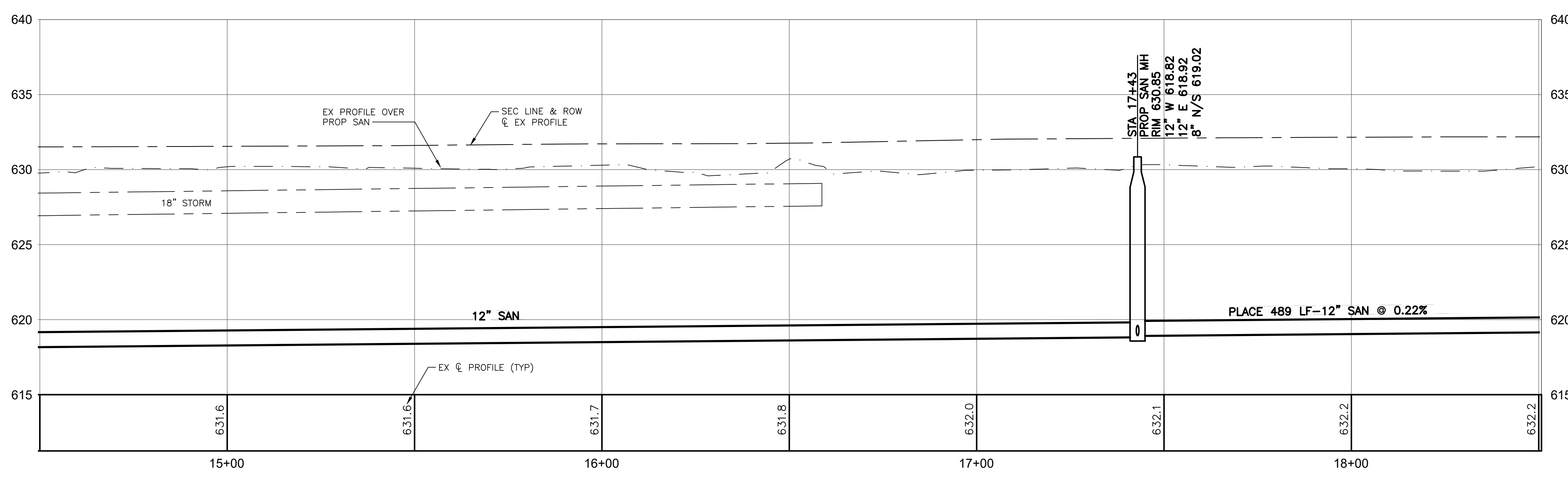
JUL 22, 2024 - 1:10pm P:\Projects\204094 - Lincoln Hwy\204094_2507\PI-PlanProf.dwg, REF: [ep] [br] [204094-7584-050] [williams.com]



BENCHMARK INFORMATION
 BM#2) ELEV.: 629.82'
 RAILROAD SPIKE ON NORTH SIDE OF POWER POLE, SOUTH OF GLENLORD RD., THIRD POLE EAST OF LINCOLN AVE.



- LEGEND**
- - PROPOSED MANHOLE
 - - PROPOSED SANITARY SEWER
 - - PROPOSED FORCEMAIN
 - - - - EXISTING STORM SEWER
 - - - - EXISTING SANITARY SEWER
 - - - - EXISTING WATER MAIN
 - - - - EXISTING DITCH LINE
 - ▭ - PROPOSED HMA TO MATCH EXISTING GRADE & MATERIALS. LIMITS ARE APPROXIMATE. REMOVE & REPLACE AS REQUIRED FOR PROPOSED SANITARY SEWER
 - ▨ - REMOVE & REPLACE EX GRAVEL, MATCH EXISTING GRADE & MATERIALS
 - ⊙ E8 - APPLIES IN ALL DISTURBED, NON-PAVED AREAS
 - ⊙ E9 - MULCH BLANKET
 - ⊙ S58 - INLET PROTECTION FABRIC DROP



THE CONTRACTOR IS CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS TAKEN IN THE FIELD. THE INFORMATION IS NOT RELIED ON TO BE EXACT OR COMPLETE. FOR PROTECTION OF UNDERGROUND UTILITIES, AND IN CONFORMANCE WITH PUBLIC ACT 53, 1974, THE CONTRACTOR SHALL CALL TOLL FREE 1-800-482-7171 OR 811, A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. ALL "MISS DIG" PARTICIPATING MEMBERS WILL BE THUS ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR FROM NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" SYSTEM. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.



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LINCOLN CHARTER TOWNSHIP
 BERRIEN COUNTY, MICHIGAN
WEST GLENLORD ROAD PROPOSED SANITARY SEWER
SANITARY PLAN & PROFILE STA 14+50 TO STA 18+50

DESIGNED BY	DATE	DRAWN BY	DATE	CHECKED BY	DATE
B MIERAS	7/2024	D HUELSON	7/2024	B MIERAS	7/22/24

PROJECT: 204094.75
 FILE: Pit-PlanProf.dwg

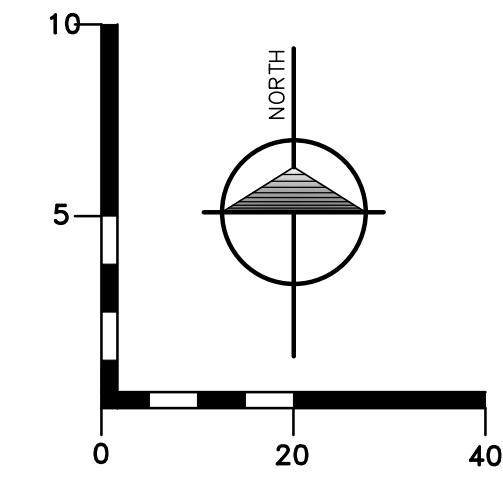
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 SHEET NO.

Jul 22, 2024 - 1:11pm P:\Projects\204094 - Lincoln Hwy\204094_Plan\204094_Plan.dwg, REF: [ep] [br] [204094-75] [811] [0]

BENCHMARK INFORMATION

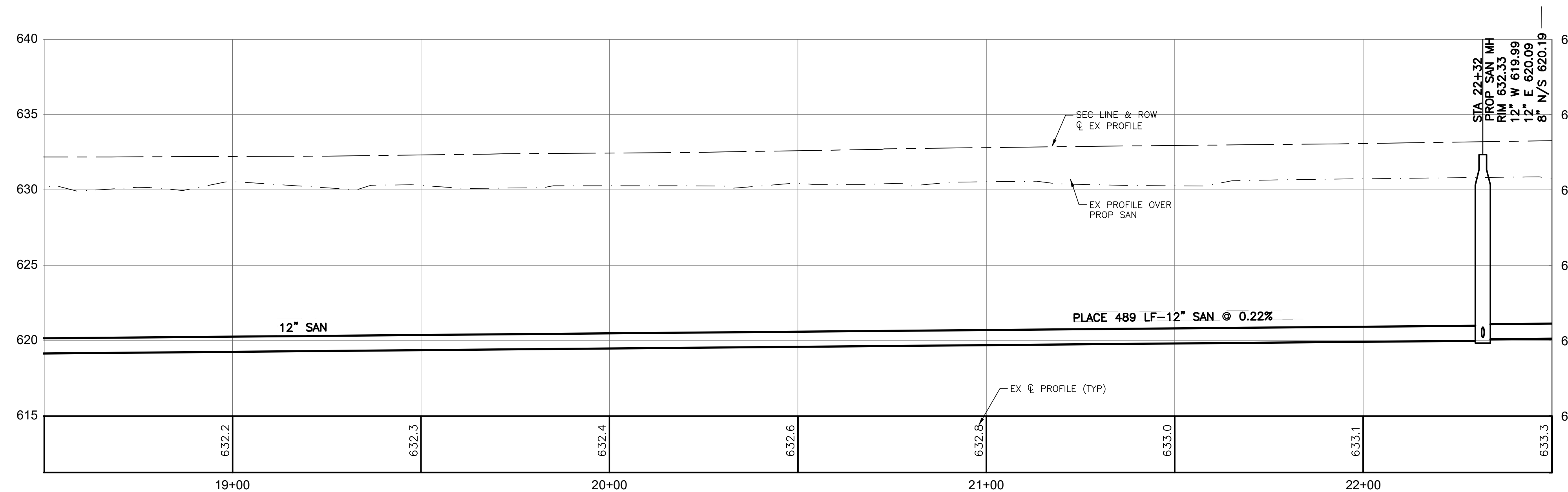
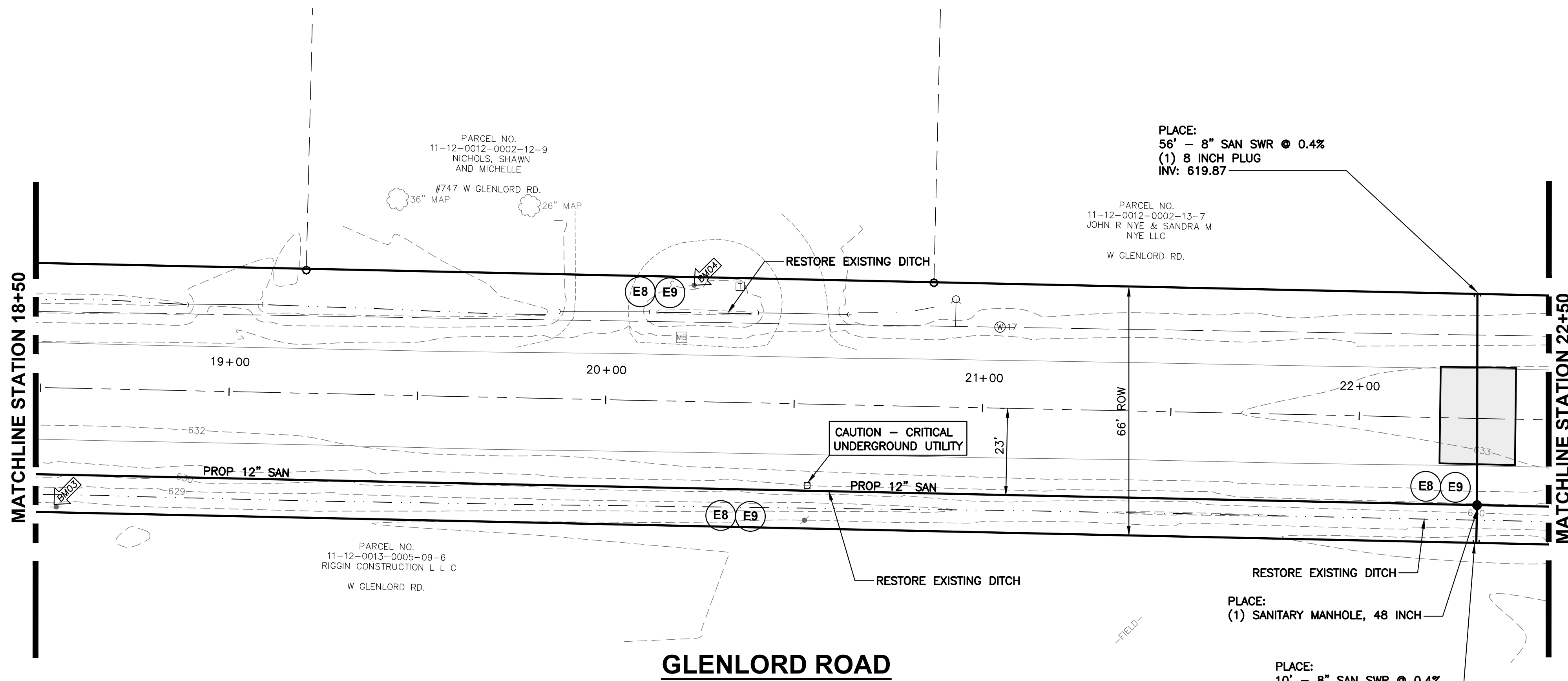
BM#3) ELEV.: 630.48'
RAILROAD SPIKE ON NORTH SIDE OF POWER POLE, SOUTH OF GLENLORD RD., FIFTH POLE EAST OF LINCOLN AVE.

BM#4) ELEV.: 631.93'
RAILROAD SPIKE ON SOUTH SIDE OF POWER POLE, NORTH OF GLENLORD RD. IN FRONT YARD OF #747 GLENLORD RD.



LEGEND

- PROPOSED MANHOLE
- PROPOSED SANITARY SEWER
- PROPOSED FORCEMAIN
- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- EXISTING WATER MAIN
- EXISTING DITCH LINE
- ▭ PROPOSED HMA TO MATCH EXISTING GRADE & MATERIALS. LIMITS ARE APPROXIMATE. REMOVE & REPLACE AS REQUIRED FOR PROPOSED SANITARY SEWER
- ▨ REMOVE & REPLACE EX GRAVEL, MATCH EXISTING GRADE & MATERIALS
- E8 ○ E9 ○ S58 APPLIES IN ALL DISTURBED, NON-PAVED AREAS
- E8 ○ E9 ○ S58 MULCH BLANKET
- S58 INLET PROTECTION FABRIC DROP



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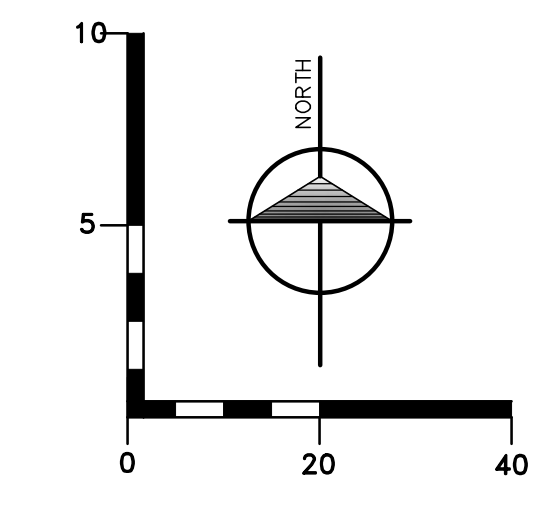
LINCOLN CHARTER TOWNSHIP
BERRIEN COUNTY, MICHIGAN
WEST GLENLORD ROAD PROPOSED SANITARY SEWER
SANITARY PLAN & PROFILE STA 18+50 TO STA 22+50

DESIGNED BY	DATE	DRAWN BY	DATE	CHECKED BY	DATE
B MIERAS	7/2024	D HUDELSON	7/2024	B MIERAS	7/22/24

PROJECT: 204094.75
FILE: Pit-PlanProf.dwg

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BENCHMARK INFORMATION
 BM#5) ELEV.: 632.30'
 RAILROAD SPIKE ON SOUTH SIDE OF POWER POLE, NORTH OF GLENLORD RD., EAST SIDE OF DRIVE TO #675 GLENLORD RD.



- LEGEND**
- - PROPOSED MANHOLE
 - - PROPOSED SANITARY SEWER
 - - - - PROPOSED FORCEMAIN
 - - - - EXISTING STORM SEWER
 - - - - EXISTING SANITARY SEWER
 - - - - EXISTING WATER MAIN
 - - - - EXISTING DITCH LINE
 - ▭ - PROPOSED HMA TO MATCH EXISTING GRADE & MATERIALS. LIMITS ARE APPROXIMATE. REMOVE & REPLACE AS REQUIRED FOR PROPOSED SANITARY SEWER
 - ▨ - REMOVE & REPLACE EX GRAVEL, MATCH EXISTING GRADE & MATERIALS
 - - APPLIES IN ALL DISTURBED, NON-PAVED AREAS
 - E8
 - E9
 - S58
 - - INLET PROTECTION FABRIC DROP

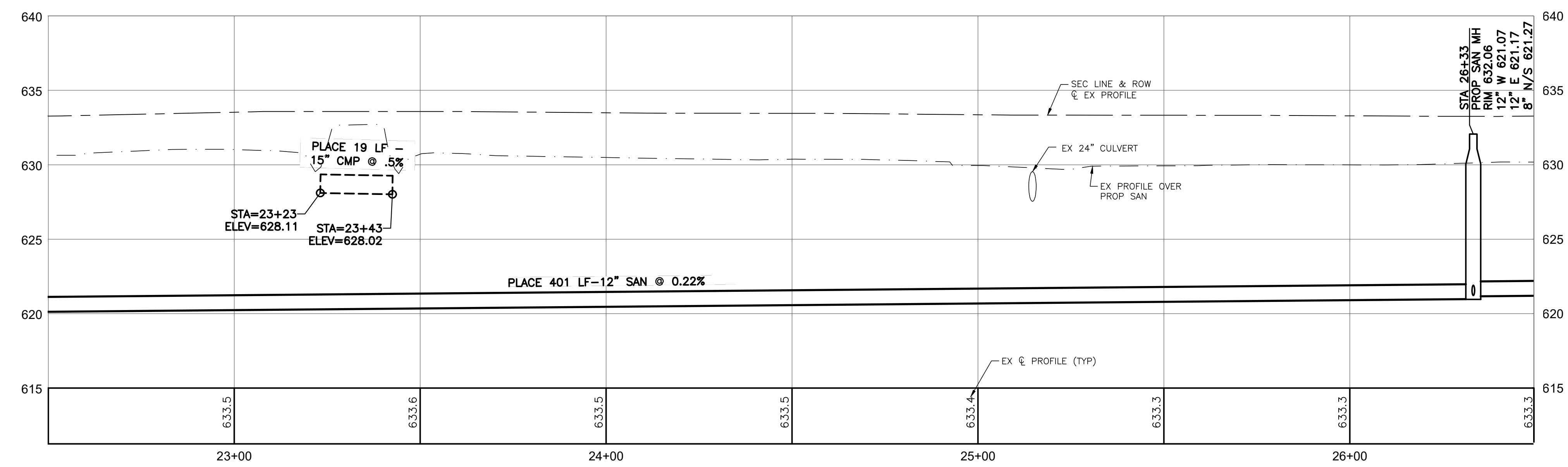
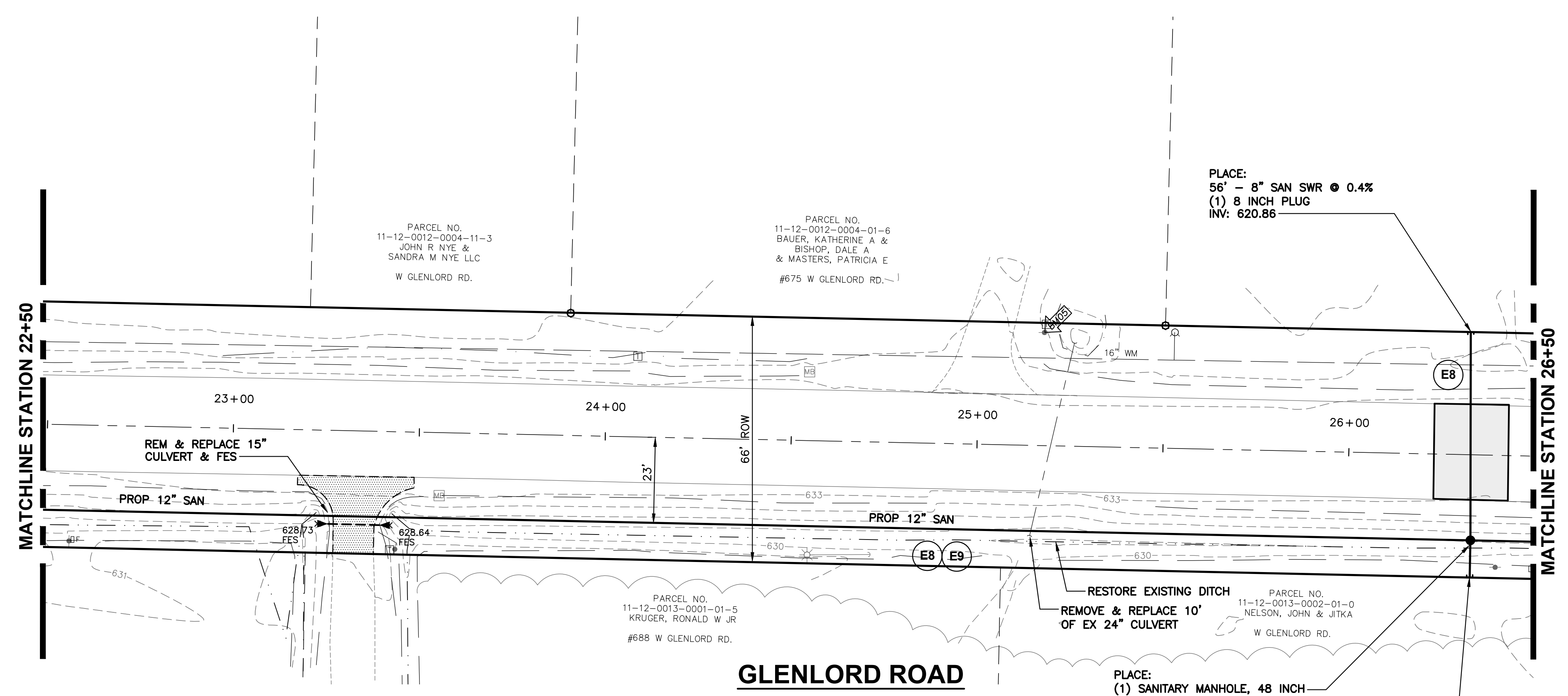
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2.			7/22/24

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LINCOLN CHARTER TOWNSHIP
BERRIEN COUNTY, MICHIGAN
WEST GLENLORD ROAD PROPOSED SANITARY SEWER
SANITARY PLAN & PROFILE STA 22+50 TO STA 26+50

DESIGNED BY	DATE	DRAWN BY	DATE	CHECKED BY	DATE
B MIERAS	7/2024	D HUDELSON	7/2024	B MIERAS	7/22/24

PROJECT: 204094.75
 FILE: Pit-PlanProf.dwg
5
 SHEET NO.



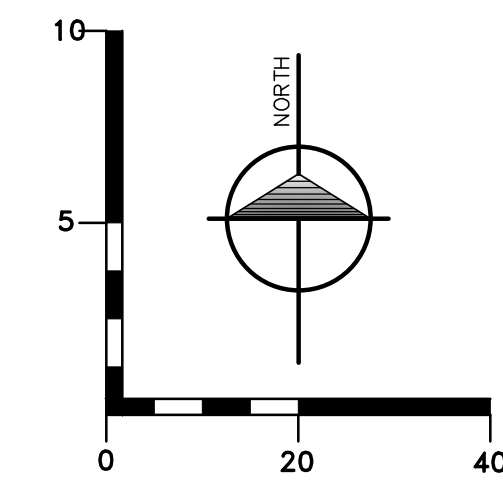
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Jul 22, 2024 - 1:20pm P:\Projects\204094-Lincoln_Twp\125_00008_03\204094_Pit-PlanProf.dwg_MIE: [ep] [br] [204094-758]-090
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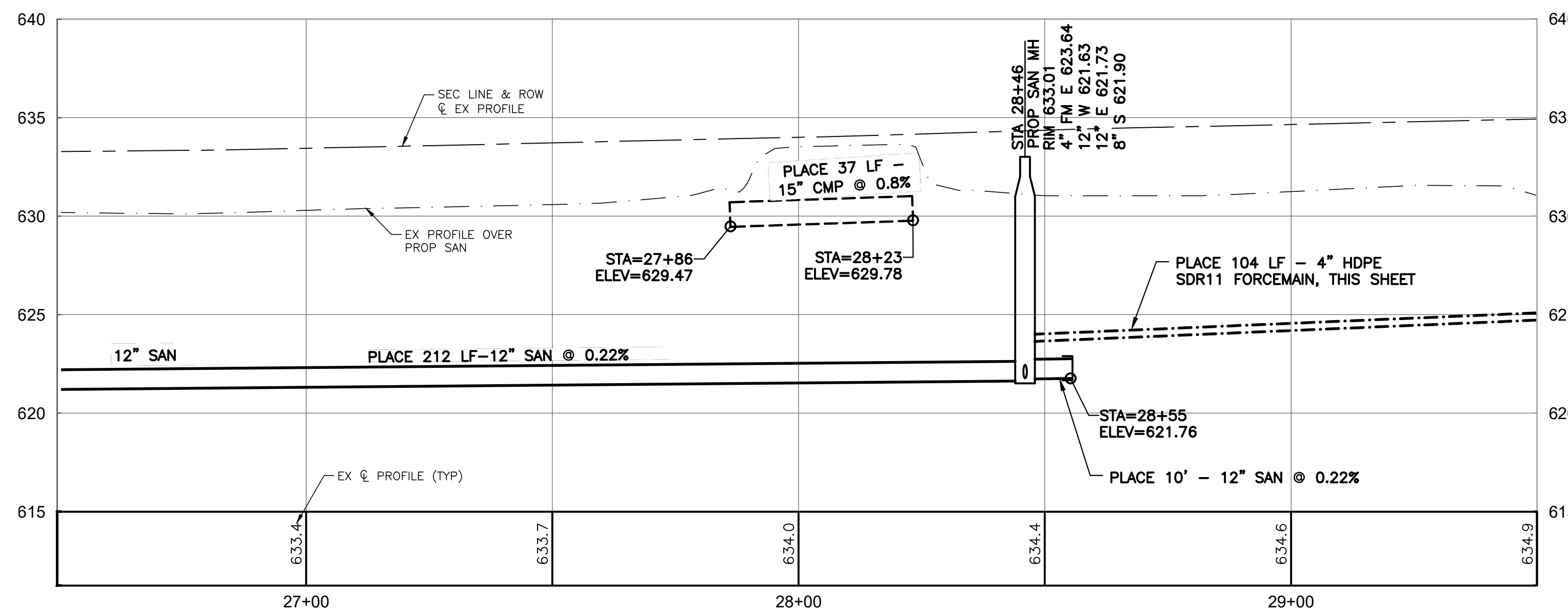
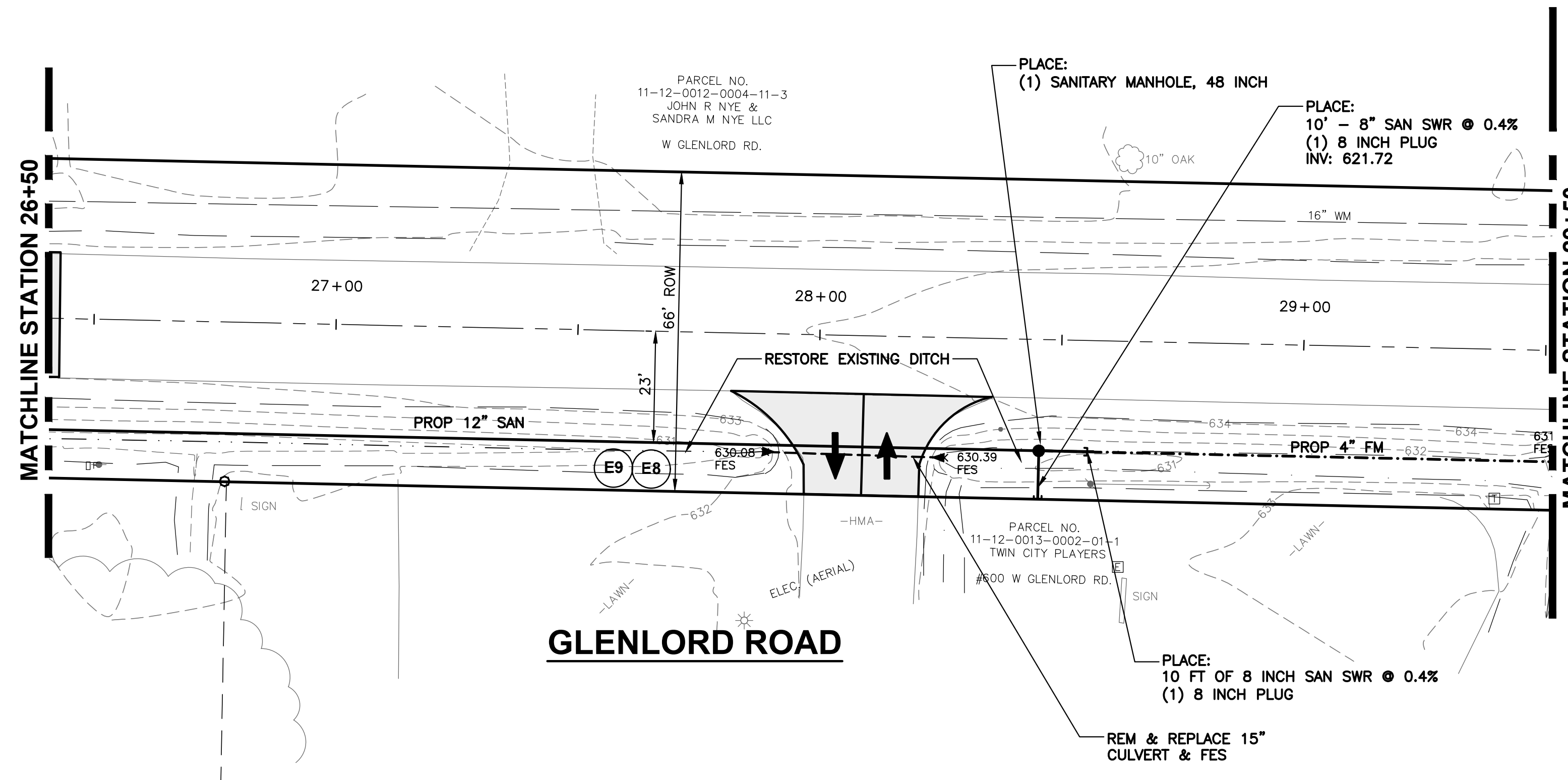
BENCHMARK INFORMATION

BM#5) ELEV.: 632.30'
RAILROAD SPIKE ON SOUTH SIDE OF POWER POLE, NORTH OF GLENLORD RD., EAST SIDE OF DRIVE TO #675 GLENLORD RD.



LEGEND

- PROPOSED MANHOLE
- PROPOSED SANITARY SEWER
- PROPOSED FORCEMAIN
- - - EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- EXISTING WATER MAIN
- - - EXISTING DITCH LINE
- ▭ PROPOSED HMA TO MATCH EXISTING GRADE & MATERIALS. LIMITS ARE APPROXIMATE. REMOVE & REPLACE AS REQUIRED FOR PROPOSED SANITARY SEWER
- ▨ REMOVE & REPLACE EX GRAVEL, MATCH EXISTING GRADE & MATERIALS
- ⊙ E8 APPLIES IN ALL DISTURBED, NON-PAVED AREAS
- ⊙ E9 MULCH BLANKET



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WEST GLENLORD ROAD PROPOSED SANITARY SEWER
SANITARY PLAN & PROFILE STA 26+50 TO STA 29+50**

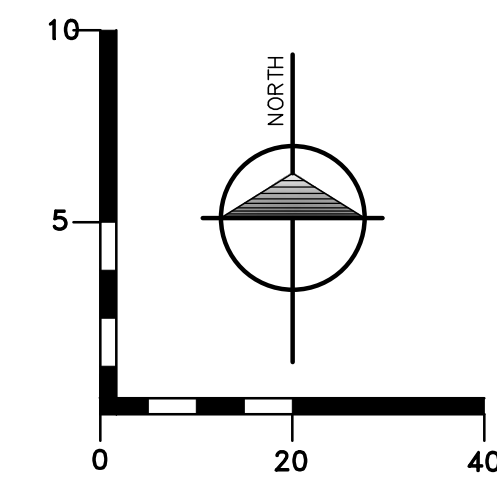
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B MIERAS	7/2024	D HUBDELSON	7/2024	B MIERAS	7/22/24

PROJECT: 204094.75
FILE: Pit-PlanProf.dwg

July 22, 2024 - 1:30pm P:\Projects\204094 - Lincoln way\25 deliver\8 204094 2024\Plan-Profile.dwg_MEFs [ep] [brw] [204094-7584-090] [w] [m] [s]

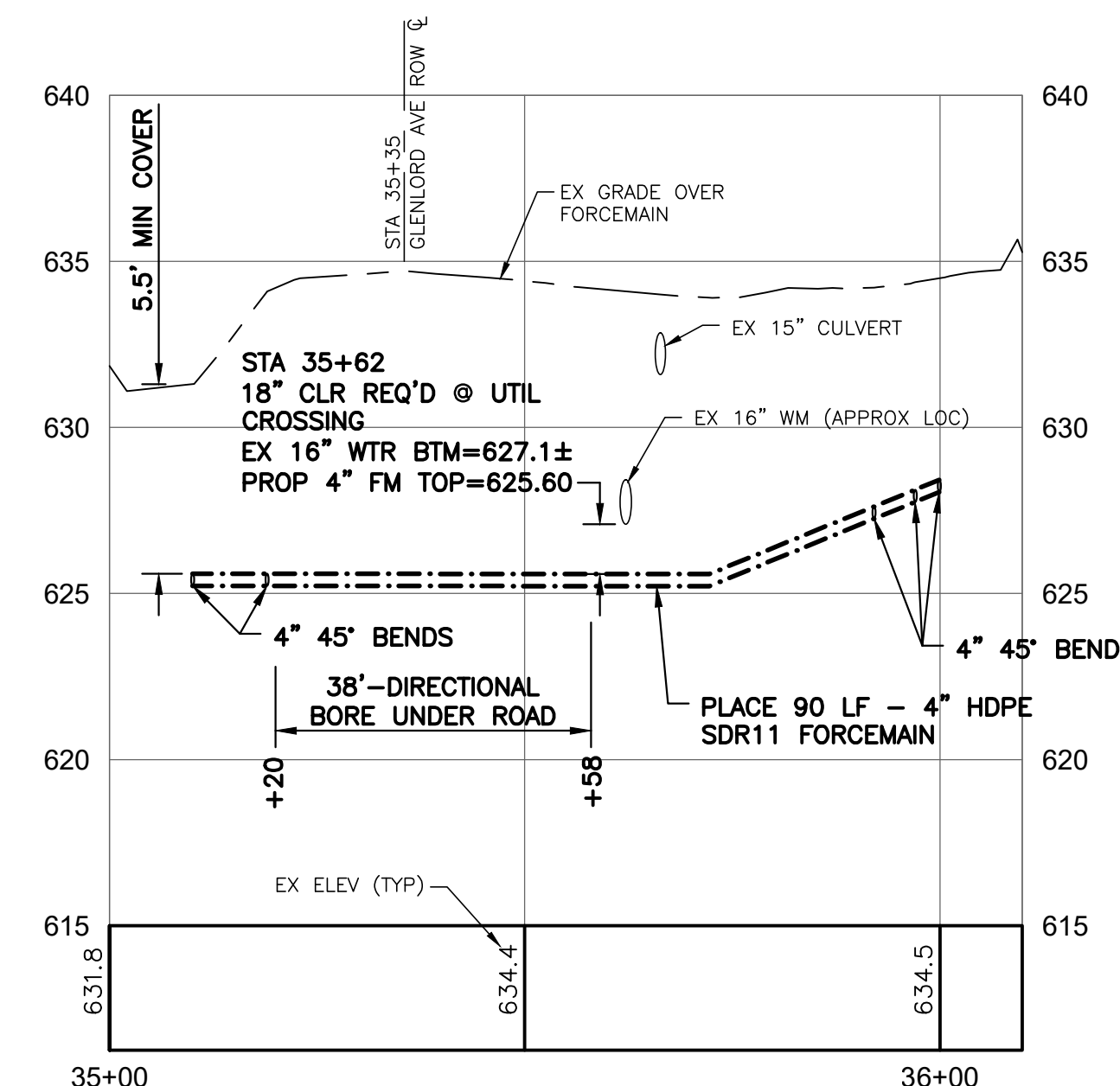
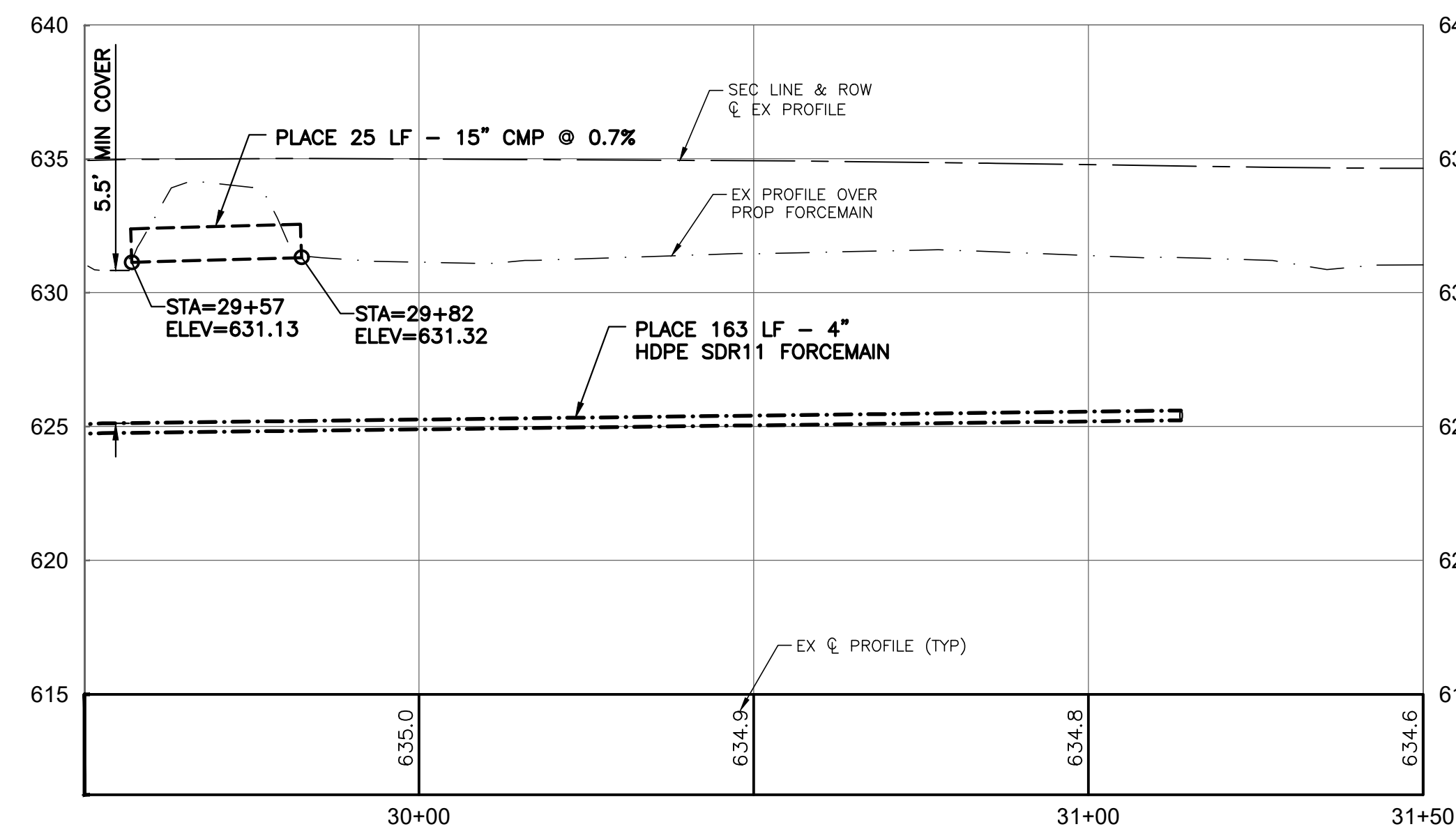
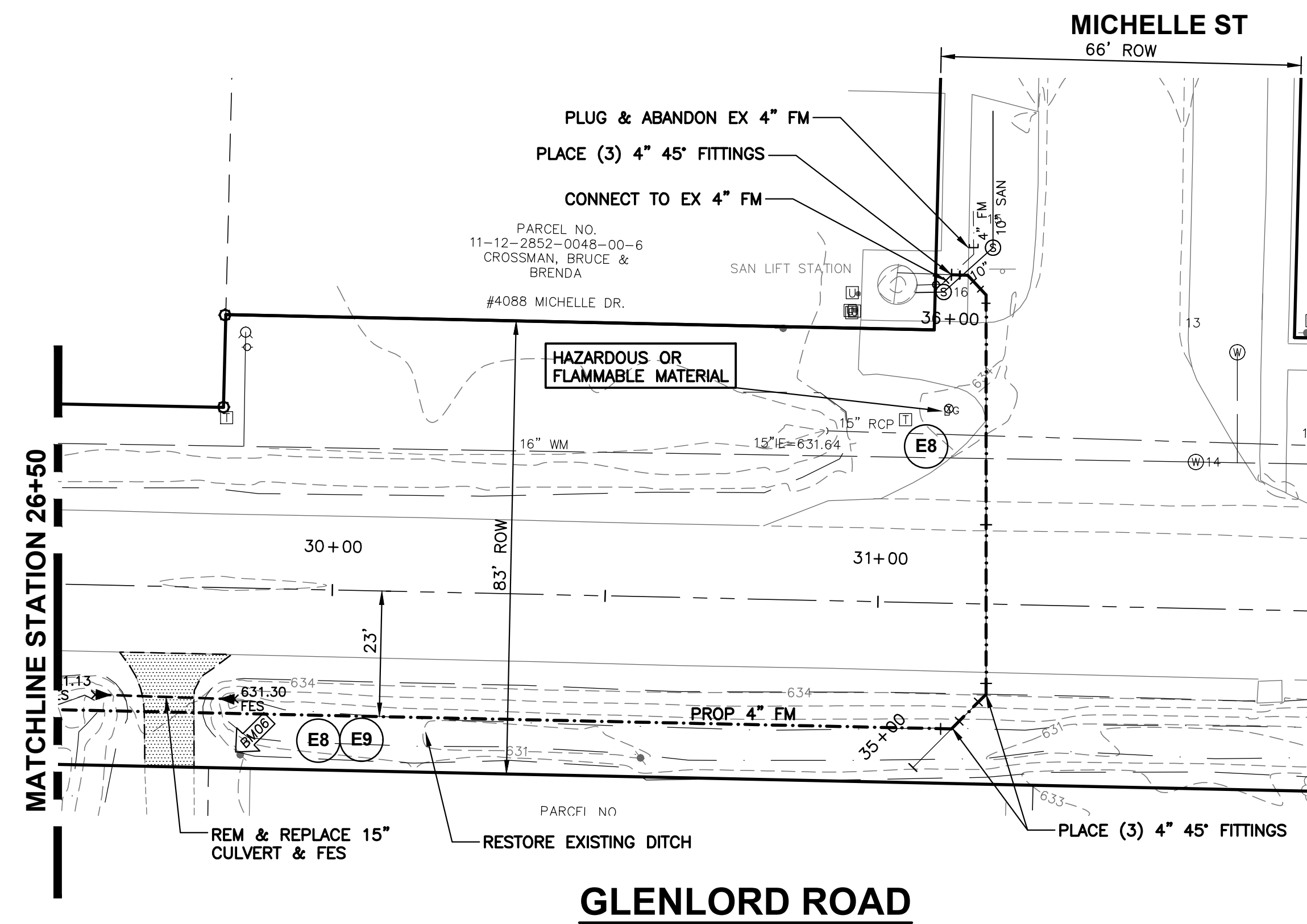
BENCHMARK INFORMATION

BM #6) ELEV.: 634.43'
 RAILROAD SPIKE ON NORTH SIDE OF POWER POLE, SOUTH OF GLENLORD RD., SECOND POLE EAST OF DRIVE TO #600 GLENLORD RD.



LEGEND

- - PROPOSED MANHOLE
- - PROPOSED SANITARY SEWER
- - PROPOSED FORCEMAIN
- - - - - EXISTING STORM SEWER
- - - - - EXISTING SANITARY MAIN
- - - - - EXISTING WATER MAIN
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- ⊙ E8 - APPLIES IN ALL DISTURBED, NON-PAVED AREAS
- ⊙ E9 - MULCH BLANKET
- ⊙ S58 - INLET PROTECTION FABRIC DROP



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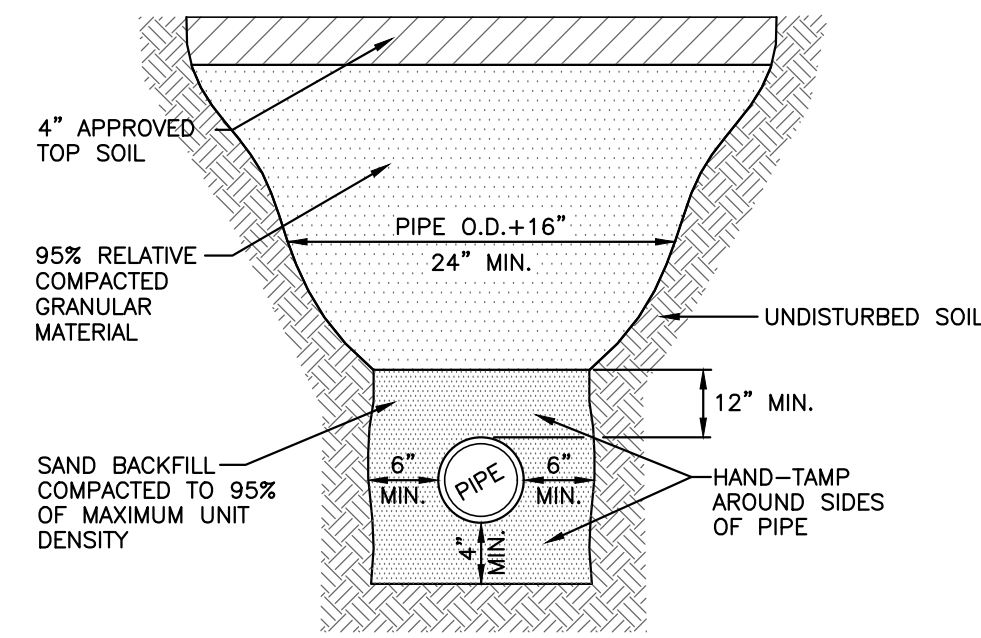
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**LINCOLN CHARTER TOWNSHIP
 BERRIEN COUNTY, MICHIGAN
 WEST GLENLORD ROAD PROPOSED SANITARY SEWER
 FORCEMAIN PLAN & PROFILE**

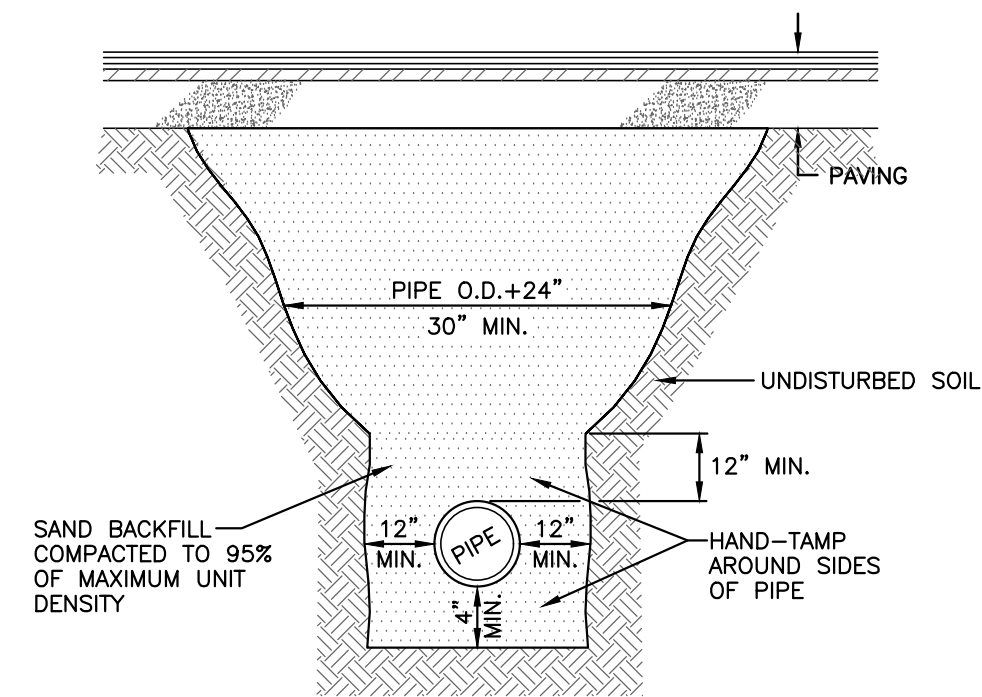
DESIGNED BY	DATE
D. HUDELSON	5/2024
DRAWN BY	DATE
D. HUDELSON	5/2024
CHECKED BY	DATE
B. MIERAS	7/22/24

PROJECT: 204094.75
 FILE: Pit-PlanProf.dwg

7
 SHEET NO.



TYPICAL TRENCH DETAIL
NOT TO SCALE



**TYPICAL TRENCH DETAIL
UNDER PAVEMENT ONLY**
NOT TO SCALE

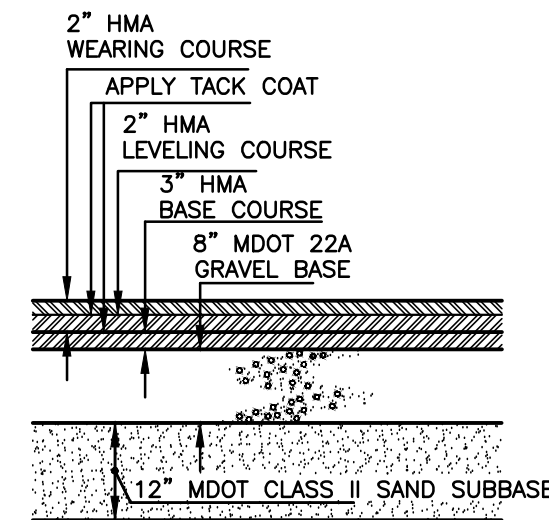
MATERIAL TYPES:

HMA WEARING COURSE MDOT HMA 13A (220#/SYD)

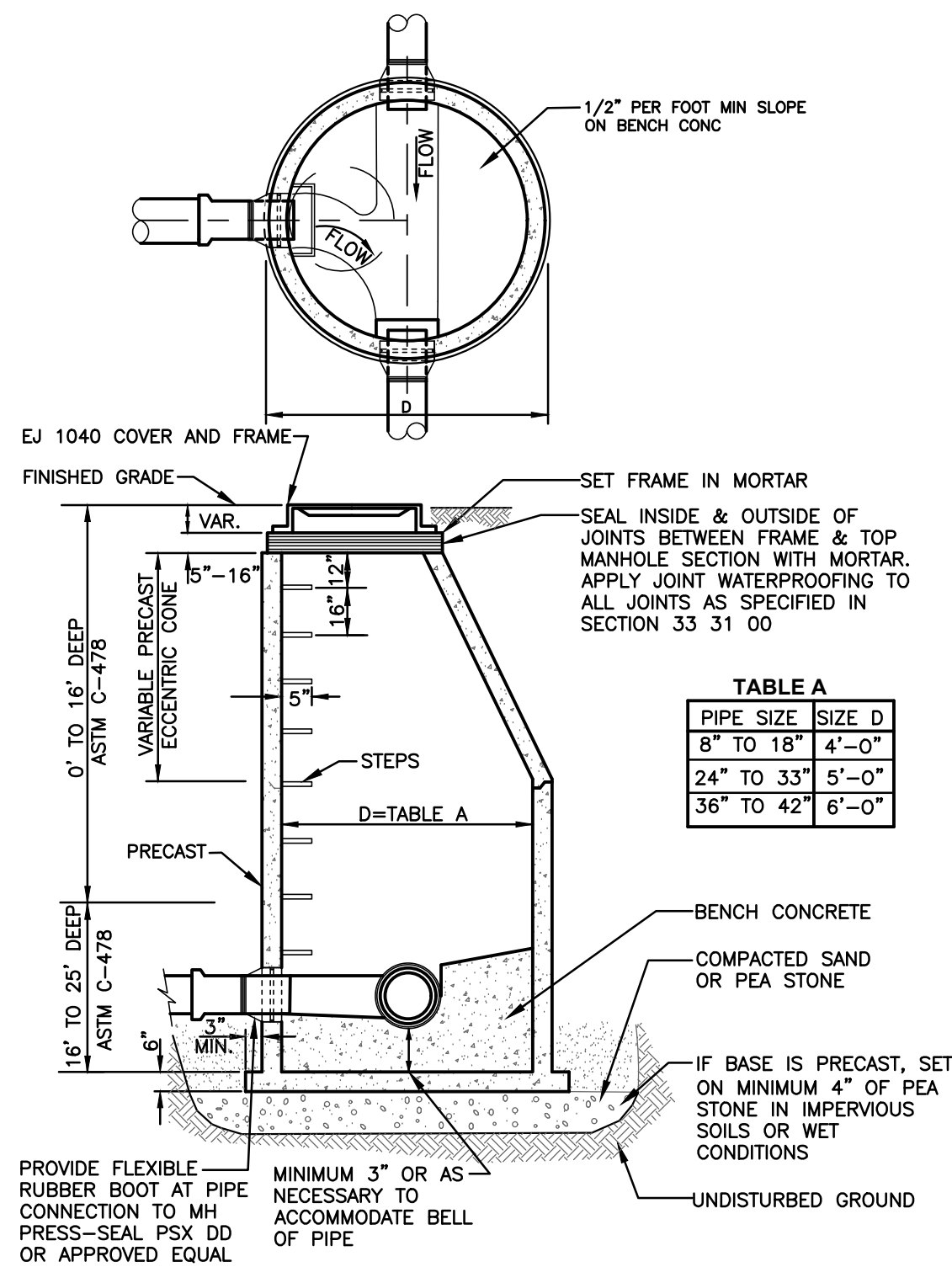
HMA LEVELING COURSE MDOT HMA 13A (220#/SYD)

HMA BASE COURSE MDOT HMA 13A (330#/SYD)

ALL MATERIAL DESIGNATIONS REFER TO M.D.O.T. STANDARD SPECIFICATIONS FOR CONSTRUCTION, 2003 EDITION AND SUPPLEMENTAL SPECIFICATIONS



STANDARD PAVEMENT SECTION
NOT TO SCALE



SANITARY MANHOLE
NOT TO SCALE

E7 TEMPORARY SEEDING NOTE

ALL AREAS DISTURBED BY CONSTRUCTION, BUT NOT TO BE COMPLETED WITHIN TWO NORMAL WORK WEEKS SHALL RECEIVE TEMPORARY SEEDING AS INDICATED ON PLANS AND AS FOLLOWS:

SEED TYPE	ZONE 1 (SOUTH OF U.S. 10)	
	PER 1,000 SQ.FT.	PER ACRE
OATS, BARLEY	4/1 - 9/15	2 LBS. 96 LBS.
ANNUAL RYE	8/1 - 10/15	3 LBS. 120 LBS.
WHEAT	9/20 - 10/15	3 LBS. 120 LBS.
BUCKWHEAT	6/1 - 7/15	2 LBS. 75 LBS.
PERENNIAL RYEGRASS	8/1 - 10/15	0.5 LBS. 20 LBS.

SOURCE: ADAPTED FROM USDA NRCS TECHNICAL GUIDE #342 (1999)

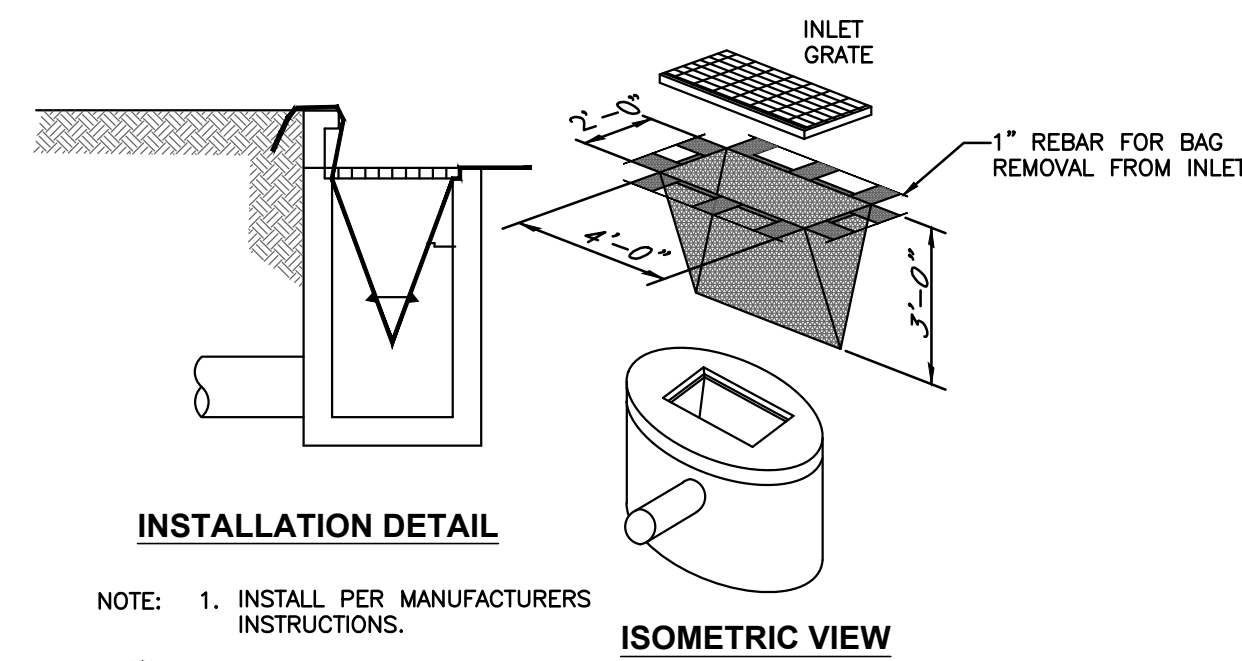
E8 PERMANENT SEEDING NOTE

ALL PROPOSED LAWN AREAS AND ALL AREAS DISTURBED BY CONSTRUCTION SHALL RECEIVE A MINIMUM OF 4" OF TOPSOIL AND LAWN SEED MIX AS INDICATED ON PLANS AND AS FOLLOWS:

PROPORTION	CLASS "A" SEED TYPE
10%	CANNON KENTUCKY BLUEGRASS
10%	GOLDRUSH KENTUCKY BLUEGRASS
20%	RONDE KENTUCKY BLUEGRASS
20%	SR5100 CHEWINGS FESCUE
20%	SR5200 CREEPING RED FESCUE
10%	SR4400 PERENNIAL RYEGRASS
10%	SR4500 PERENNIAL RYEGRASS

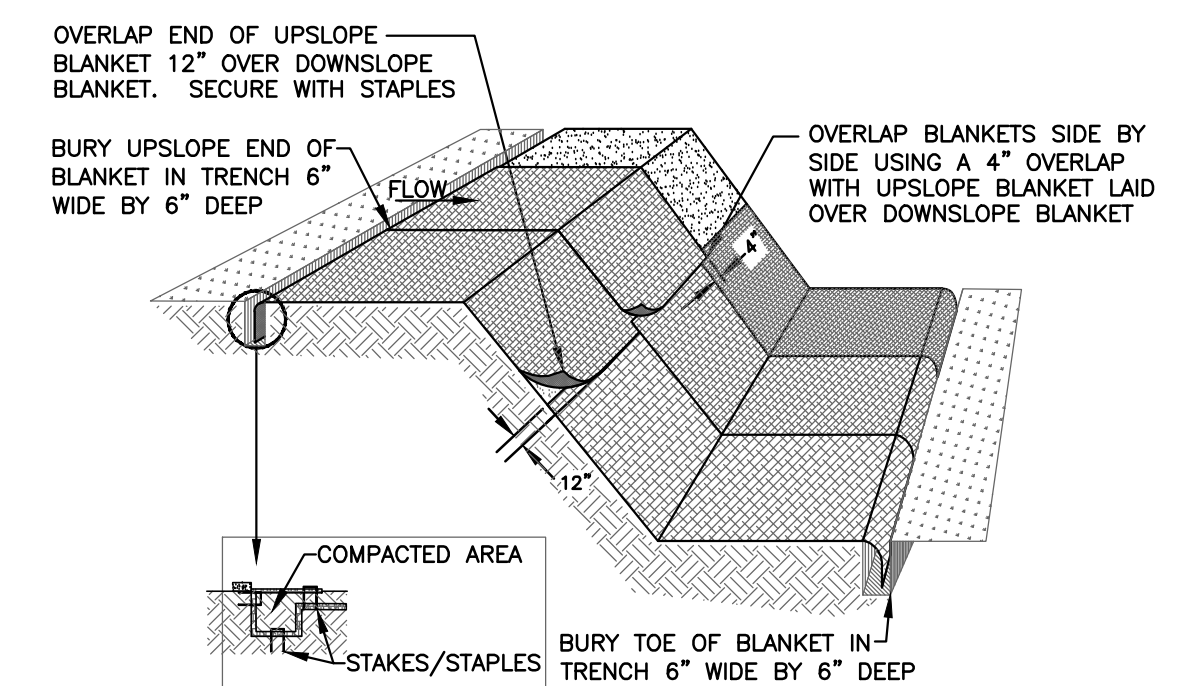
SEEDING RATE SHALL BE 4 TO 6 lbs. PER 1000 SQ. FEET.

ALL AREAS DESIGNATED FOR PERMANENT SEEDING SHALL BE HYDRO-SPRAYED.



NOTE: 1. INSTALL PER MANUFACTURERS INSTRUCTIONS.

S58 INLET PROTECTION - FABRIC DROP



NOTES
1. PLACE MULCH BLANKET PARALLEL TO FLOW AND ANCHOR SECURELY.
2. STAPLES INSTALLED/SECURED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

E9 MULCH BLANKETS

NO.	ISSUED FOR	BY	DATE
1.	OWNER REVIEW PERMITS/BID	BM	6/11/24
2.		BM	7/22/24

DESIGNED BY	DATE	DRAWN BY	DATE	CHECKED BY	DATE
B MIERAS	7/2024	D HUDELSON	2/2024	B MIERAS	7/22/24

PROJECT: 204094.75
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Jul 22, 2024 - 1:28pm P:\Projects\204094-Lincoln Hwy\25-Grandview Rd\204094-7502\VP-Details.dwg, \$BEP, [usr]
By: HUDELSON