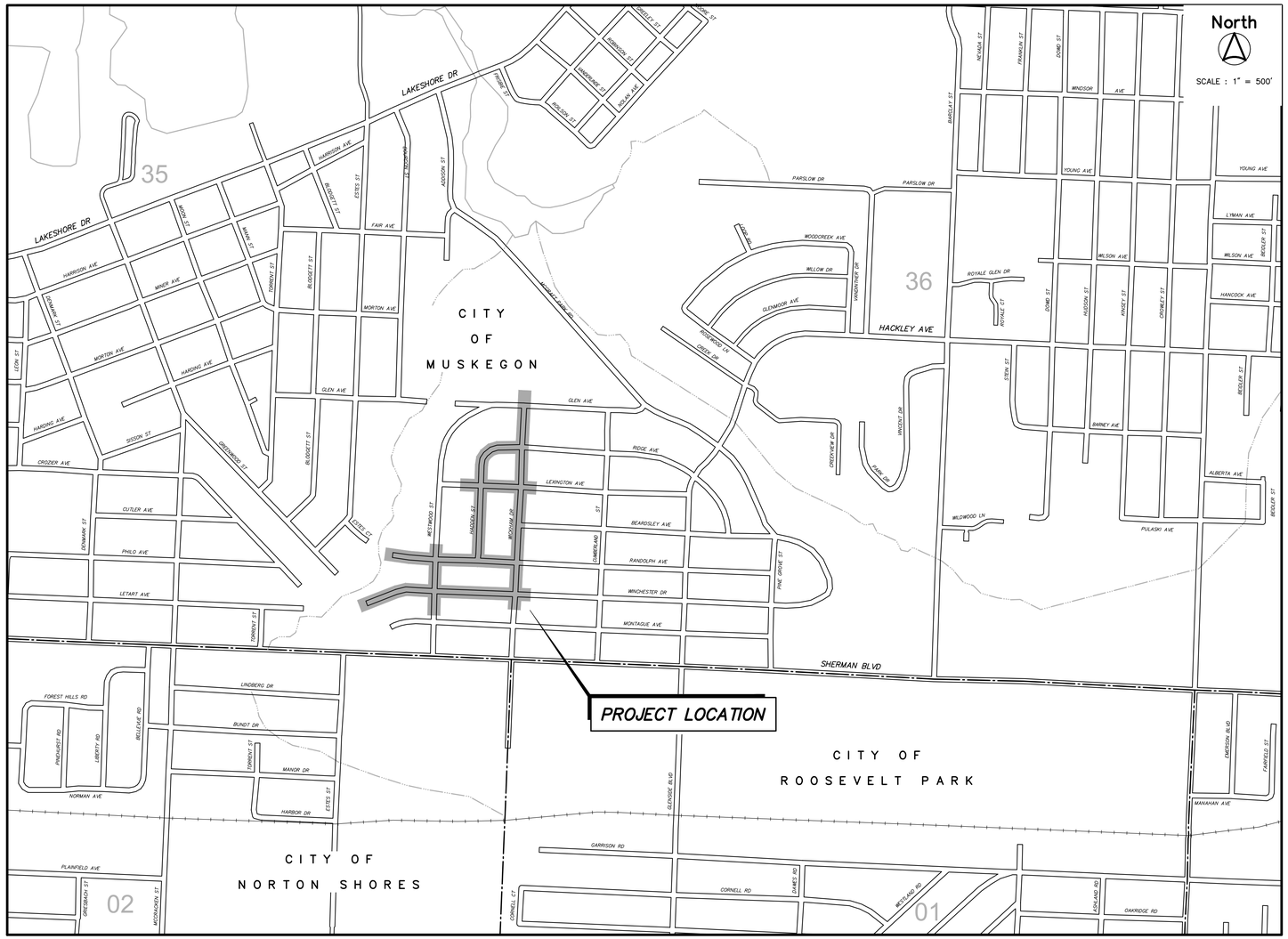
CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN

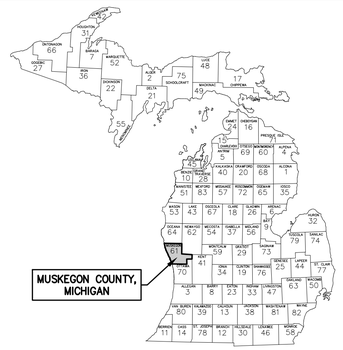
UTILITY AND STREET IMPROVEMENTS

HADDEN STREET, LEXINGTON AVENUE, RANDOLPH AVENUE, WESTWOOD STREET, WICKHAM DRIVE & WINCHESTER DRIVE

CWSRF PROJECT #6019-01 **DWSRF PROJECT #7929-01**



STATE LOCATION MAP



SOIL BORING GENERAL NOTES

WITHIN EACH SOIL BORING, WHERE SHOWN, SOIL SAMPLES WERE OBTAINED BY THE STANDARD PENETRATION TEST METHOD, ASTM D1586, WHEREBY A SPLIT-SPOON SAMPLER IS DRIVEN THREE SUCCESSIVE 6-INCH INCREMENTS WITH A 140 POUND WEIGHT FALLING 30 INCHES. THE NUMBER OF BLOWS REQUIRED TO DRIVE THE SAMPLER FOR EACH INCREMENT IS PRESENTED ON THE SOIL BORING LOGS.

GRANULAR SOILS (COARSE-GRAINED) HAVE MORE THAN 50% OF THEIR DRY WEIGHT RETAINED ON A #200 SIEVE; THEY ARE DESCRIBED AS: *BOULDERS, COBBLES, GRAVEL OR SAND*. FINE-GRAINED SOILS HAVE LESS THAN 50% OF THEIR DRY WEIGHT RETAINED ON A #200 SIEVE; THEY ARE DESCRIBED AS: *CLAYS OR CLAYEY SILTS* IF THEY ARE COHESIVE, AND *SILTS* IF THEY ARE NON-COHESIVE. IN ADDITION TO GRADATION, GRANULAR SOILS ARE DEFINED BASED ON THEIR *IN-SITU DENSITY*; FINE GRAINED SOILS ARE FURTHER DEFINED BASED ON THEIR STRENGTH OR CONSISTENCY, AND ON THEIR *PLASTICITY*.

MAJOR SOIL COMPONENT		GRADATION RANGE
BOULDERS		OVER 12 INCHES (305mm)
COBBLES		12 INCHES TO 3 INCHES (305mm TO 76mm)
GRAVEL	COARSE	3 INCHES TO 3/4 INCHES (76mm TO 19mm)
	FINE	3/4 INCHES TO #4 SIEVE (19mm TO 4.75mm)
SAND	COARSE	#4 SIEVE TO #10 SIEVE (4.75mm TO 2.00mm)
	MEDIUM	#10 SIEVE TO #40 SIEVE (2.00mm TO 0.425mm)
	FINE	#40 SIEVE TO #200 SIEVE (0.425mm TO 0.074mm)
SILT		PASSING #200 SIEVE (0.074mm) TO 0.005mm
CLAY		SMALLER THAN 0.005mm

DESCRIPTION TERM(S) (OF MINOR SOIL CONSTITUENTS)	PERCENT OF DRY WEIGHT
TRACE	1 – 10
LITTLE	10 – 20
SOME	20 – 35
AND	35 – 50

IN-SITU DENSITY OF GRANULAR SOILS:	
N – BLOWS/FT.	IN-SITU DENSITY
0 – 4	VERY LOOSE
5 – 10	LOOSE
11 – 30	MEDIUM DENSE
31 – 50	DENSE
50 +	VERY DENSE

CONSISTENCY OF COHESIVE SOILS:

UNCONFINED COMP STRENGTH, Qu (tsf)	CONSISTENCY
<0.25	VERY SOFT
0.25 – 0.50	SOFT
0.50 – 1.00	MEDIUM (FIRM)
1.00 – 2.00	STIFF
2.00 – 4.00	VERY STIFF
4.00 – 8.00	HARD
>8.00	VERY HARD

WATER LEVELS INDICATED ON THE BORING LOGS ARE THE LEVELS MEASURED IN THE BORING AT THE TIMES INDICATED. IT SHOULD BE NOTED THAT GROUNDWATER LEVELS OBSERVED DURING DRILLING IN PREDOMINANTLY COHESIVE SOILS ARE NOT NECESSARILY INDICATIVE OF THE STATIC GROUNDWATER LEVEL. THIS IS DUE TO THE RELATIVELY LOW PERMEABILITY OF CLAY SOILS AND THE TENDENCY OF DRILLING OPERATIONS TO TEMPORARILY SEAL OFF NATURAL PATHS OF GROUNDWATER MIGRATION INTO THE BOREHOLE. ADDITIONALLY, FLUCTUATIONS IN GROUNDWATER LEVELS SHOULD BE ANTICIPATED WITH SEASONAL VARIATIONS AND FOLLOWING PERIODS OF HEAVY OR PROLONGED PRECIPITATION.

THE SOIL BORING LOGS SHOWN ON THE CONSTRUCTION PLANS ARE BEING FURNISHED FOR YOUR CONVENIENCE AND GENERAL INFORMATION ONLY. THE DATA SHOWN ON THE BORING LOGS REPRESENTS SOIL AND GROUNDWATER CONDITIONS ENCOUNTERED AT THE RESPECTIVE BORING LOCATIONS. VARIATIONS MAY OCCUR BETWEEN THESE LOCATIONS. ADDITIONALLY, THE STRATIGRAPHIC LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES; HOWEVER, THE TRANSITION MAY BE MORE GRADUAL THAN WHAT IS SHOWN. THE BIDDER WILL BE RESPONSIBLE FOR MAKING THEMSELVES FAMILIAR WITH SUBSURFACE CONDITIONS BY WHATEVER MEANS THEY DEEM NECESSARY AND SHALL MAKE THEIR OWN DETERMINATIONS THEREFROM.

THE BIDDER BY SUBMITTING A BID, WAIVES ALL CLAIMS FOR DAMAGES WHICH THEY MAY SUFFER BY REASONS OF THE INADEQUACIES OR DISCREPANCIES OF THE INFORMATION SHOWN ON THESE SOIL BORING LOGS AND UNDERSTANDS THAT NO COMPENSATION WILL BE PAID TO THEM DUE TO AN INADEQUACY OR DISCREPANCY IN THIS DATA.

GENERAL NOTES

1. CONTRACTOR TO CALL MISS DIG (CALL TOLL FREE 1-800-482-7171) THREE WORKING DAYS BEFORE STARTING YOUR PROJECT. (EXCLUDING WEEKENDS AND HOLIDAYS)
2. CONTRACTOR SHALL PRESERVE ALL GOVERNMENT AND PROPERTY CORNERS.

UTILITIES

SANITARY SEWER
CITY OF MUSKEGON
1350 E KEATING AVENUE
MUSKEGON, MI 49442
ATTN : JOE BUTHKER
PHONE : (231) 734-4184
EMAIL : Joe.Buthker@shorelinesity.com

WATER
CITY OF MUSKEGON
1350 E KEATING AVENUE
MUSKEGON, MI 49442
ATTN : JOE BUTHKER
PHONE : (231) 734-4184
EMAIL : Joe.Buthker@shorelinesity.com

STORM SEWER
CITY OF MUSKEGON
1350 E KEATING AVENUE
MUSKEGON, MI 49442
ATTN : VERNON BERNDT
PHONE : (231) 724-6992
EMAIL : Vern.Berndt@shorelinesity.com

GAS
DTE ENERGY
2359 OLTHOF DRIVE
MUSKEGON, MI 49444
ATTN : JON OCHOA
PHONE : (231) 370-4153
EMAIL : Jonathan.Ochoa@dteenergy.com

ELECTRIC-DISTRIBUTION
CONSUMERS ENERGY
700 E STERNBERG ROAD
MUSKEGON, MI 49441
ATTN : JOEL BROWN
PHONE : (231) 332-2682
EMAIL : Joel.M.Brown@cmsenergy.com

COMMUNICATION
FRONTIER COMMUNICATIONS
860 TERRACE STREET
MUSKEGON, MI 49443
ATTN : MIKE THOMPSON
PHONE : (231) 740-4279
EMAIL : Mike.Thompson@FTR.com

CABLE TELEVISION
COMCAST
700 W BROADWAY AVENUE
MUSKEGON, MI 49441
ATTN : JON CHARLAND
PHONE : (231) 375-5112
EMAIL : Jonathan_Charland@comcast.com

811 Know what's below. Call before you dig.

UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

PROJECT DATUM INFORMATION

COORDINATE SYSTEM :	STATE PLANE GRID
ZONE :	MICHIGAN SOUTH 2113
ELLIPSOID :	GRS 80
HORIZONTAL DATUM :	NAD 83 (2011)
VERTICAL DATUM :	NAVD 88
GEOID :	GEOID 18
UNITS :	INTERNATIONAL FEET

PROJECT COMBINED SCALE FACTOR (PCSF) = 0.999922830432
GROUND DISTANCE = GRID DISTANCE/PCSF

SHEET INDEX

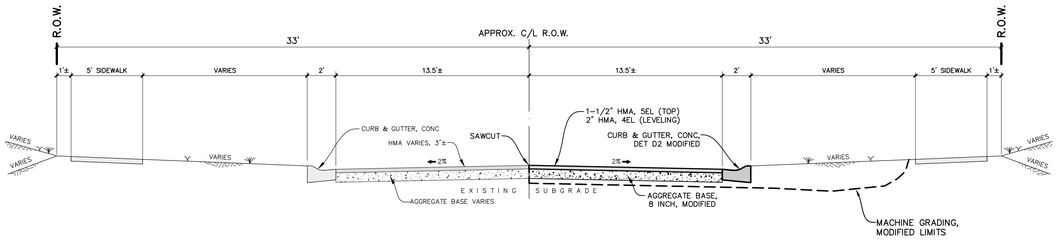
SHEET No.	DESCRIPTION
1	COVER SHEET
2	TYPICAL CROSS SECTIONS AND DETAILS
3	WINCHESTER DRIVE REMOVAL PLAN (STA. 20+00 TO STA. 27+00)
4	WINCHESTER DRIVE REMOVAL PLAN (STA. 27+00 TO STA. 33+00)
5	RANDOLPH AVENUE REMOVAL PLAN (STA. 16+00 TO STA. 22+00)
6	RANDOLPH AVENUE REMOVAL PLAN (STA. 22+00 TO STA. 28+00)
7	WESTWOOD STREET REMOVAL PLAN
8	LEXINGTON AVENUE REMOVAL PLAN
9	HADDEN STREET REMOVAL PLAN (STA. 9+00 TO STA. 18+00)
10	HADDEN STREET REMOVAL PLAN (STA. 18+00 TO STA. 23+00)
11	WINCHESTER DRIVE UTILITY IMPROVEMENTS (STA. 20+00 TO STA. 27+00)
12	WINCHESTER DRIVE UTILITY IMPROVEMENTS (STA. 27+00 TO STA. 33+00)
13	RANDOLPH AVENUE UTILITY IMPROVEMENTS (STA. 16+00 TO STA. 22+00)
14	RANDOLPH AVENUE UTILITY IMPROVEMENTS (STA. 22+00 TO STA. 28+00)
15	WESTWOOD STREET UTILITY IMPROVEMENTS
16	LEXINGTON AVENUE UTILITY IMPROVEMENTS
17	HADDEN STREET UTILITY IMPROVEMENTS (STA. 9+00 TO STA. 18+00)
18	HADDEN STREET UTILITY IMPROVEMENTS (STA. 18+00 TO STA. 23+00)
19	WICKHAM DRIVE UTILITY IMPROVEMENTS (STA. 39+00 TO STA. 47+00)
20	WICKHAM DRIVE UTILITY IMPROVEMENTS (STA. 47+00 TO STA. 53+00)
21	WINCHESTER DRIVE STREET IMPROVEMENTS (STA. 20+00 TO STA. 27+00)
22	WINCHESTER DRIVE STREET IMPROVEMENTS (STA. 27+00 TO STA. 33+00)
23	RANDOLPH AVENUE STREET IMPROVEMENTS (STA. 16+00 TO STA. 22+00)
24	RANDOLPH AVENUE STREET IMPROVEMENTS (STA. 22+00 TO STA. 28+00)
25	WESTWOOD STREET STREET IMPROVEMENTS
26	LEXINGTON AVENUE STREET IMPROVEMENTS
27	HADDEN ST. STREET IMPROVEMENTS (STA. 9+00 TO STA. 18+00)
28	HADDEN ST. STREET IMPROVEMENTS (STA. 18+00 TO STA. 23+00)
29	WINCHESTER DRIVE GRADING DETAILS
30	WINCHESTER DRIVE GRADING DETAILS
31	RANDOLPH AVENUE GRADING DETAILS
32	WESTWOOD STREET GRADING DETAILS
33	LEXINGTON AVENUE GRADING DETAILS
34	HADDEN STREET GRADING DETAILS
35	HADDEN STREET & WICKHAM DRIVE GRADING DETAILS
36	SIDEWALK RAMP GRADING DETAILS

STATE OF MICHIGAN
MATTHEW R. HULST
ENGINEER
No. 6201057572
LICENSED PROFESSIONAL ENGINEER

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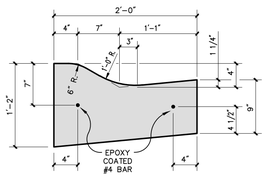
PROJECT NO. 2250950
SHEET NO. 1 OF 36

T:\CIVIL3D PROJECTS\2025\2250950_MUSKEGON_GLENSIDE\4_PROD\2250950_COVER GLENSIDE.DWG - JSMITH - May 21 2026 - 04:18pm - PrintMinehof



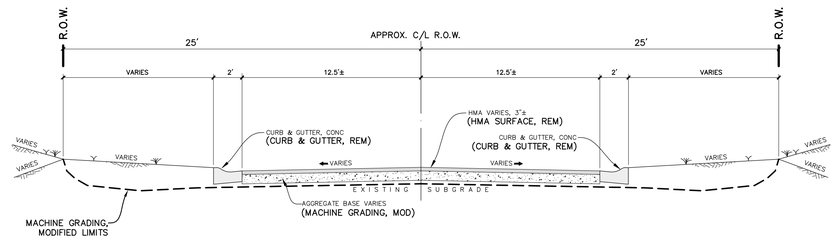
EXISTING TYPICAL CROSS SECTION

APPLIES : WICKHAM DR. (STA. 49+00 TO STA. 52+00)
AND WICKHAM DRIVE PATCHES
SCALE : NONE



CONCRETE CURB & GUTTER DETAIL MDOT D2, MODIFIED

SCALE : NONE



EXISTING TYPICAL CROSS SECTION

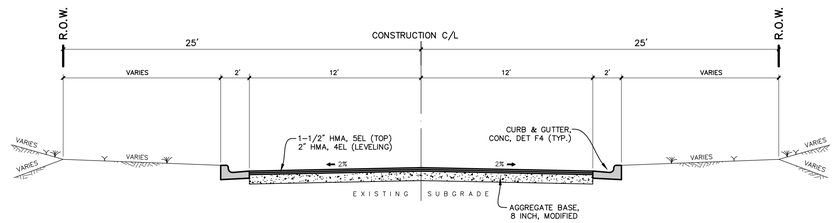
APPLIES : WESTWOOD ST., HADDEN ST, WICKHAM DR.,
WINCHESTER DR., RANDOLPH AVE. & LEXINGTON AVE.
SCALE : NONE

HOT MIX ASPHALT APPLICATION TABLE

IDENT. #	PAY ITEM	MIXTURE	APPLICATION RATE	PERFORMANCE GRADE BINDER	REMARKS
5EL	HMA, 5EL	5EL	165 LBS/SYD	PG 58-28	STREET TOP
4EL	HMA, 4EL	4EL	220 LBS/SYD	PG 58-28	STREET LEVELING

NOTES:

1. HMA BOND COAT (MDOT SS-1h) MUST BE APPLIED @ 0.05-0.15 GAL/SYD BETWEEN HMA LIFTS. THE COST OF THIS WORK MUST BE INCLUDED IN THE HMA ITEMS. HMA BOND COAT MUST ALSO BE APPLIED TO THE VERTICAL EDGE OF THE ADJACENT HMA PAVEMENT AND/OR CONCRETE CURB & GUTTER.
2. HMA PAVEMENT DEPTH TO MATCH EXISTING HMA PAVEMENT THICKNESS.



PROPOSED TYPICAL CROSS SECTION

APPLIES : WESTWOOD ST., HADDEN ST, WICKHAM DR.,
WINCHESTER DR., RANDOLPH AVE. & LEXINGTON AVE.
SCALE : NONE

NO.	REVISIONS	BY	DATE

DRAWN: J.J.S.
DATE: MAY '26
CHECKED: M.R.H.
DATE: MAY '26

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CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN

STREET IMPROVEMENTS

TYPICAL CROSS SECTIONS & DETAILS

PROJECT NO. 2250950

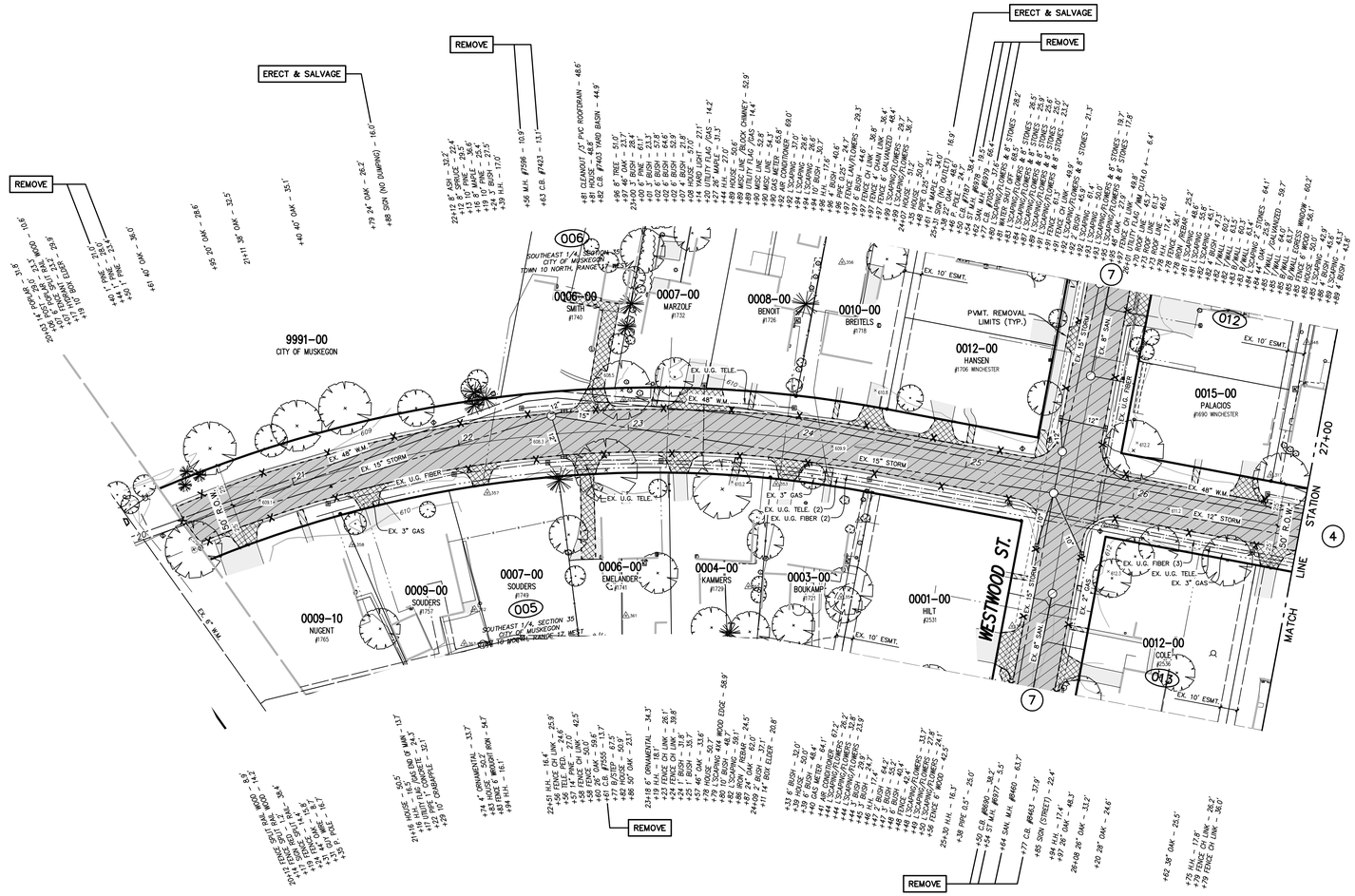
SHEET NO. 2 OF 36

T:\DWLD\ PROJECTS\2025\2250950_MUSKEGON_GLENSIDE\4_PROD\2250950_TYPS.DWG - - JSMITH - May 21 2026 - 11:16am - PrintMinwhof

B.M. EL. 612.85
WINCHESTER DR. & WESTWOOD ST., NW CORNER OF INTERSECTION, SET 60D NAIL IN NE SIDE P. POLE (2.0' A/GROUND)

CONTROL POINT TABLE

POINT No.	NORTHING	EASTING	ELEVATION
317	627963.50	12611947.40	612.79
352	627902.86	12611711.38	611.11
353	627917.10	12611660.13	610.30
357	627887.85	12611492.65	609.26
358	627846.44	12611418.46	610.19
605	627920.38	12611854.76	611.35
609	627953.33	12611564.35	609.14



REMOVAL LEGEND

- REMOVE HMA SURFACE, PAID FOR AS: HMA SURFACE REM
- REMOVE CONCRETE SIDEWALK PAID FOR AS: SIDEWALK, REM
- REMOVE CONCRETE PAVEMENT OR DRIVEWAY, PAID FOR AS: PAVT, REM
- REMOVE CURB, GUTTER OR CURB AND GUTTER, PAID FOR AS: CURB AND GUTTER, REM
- TREE REMOVAL

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UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

0' 40' 80' 120'

SCALES : 1" = 40' HORZ. (CONTOURS AT ONE FOOT INTERVALS)

NO.	REVISIONS	BY	DATE

DRAWN J.J.S.
DATE MAY '26
CHECKED M.R.H.
DATE MAY '26

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CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN

REMOVAL PLAN

WINCHESTER DRIVE

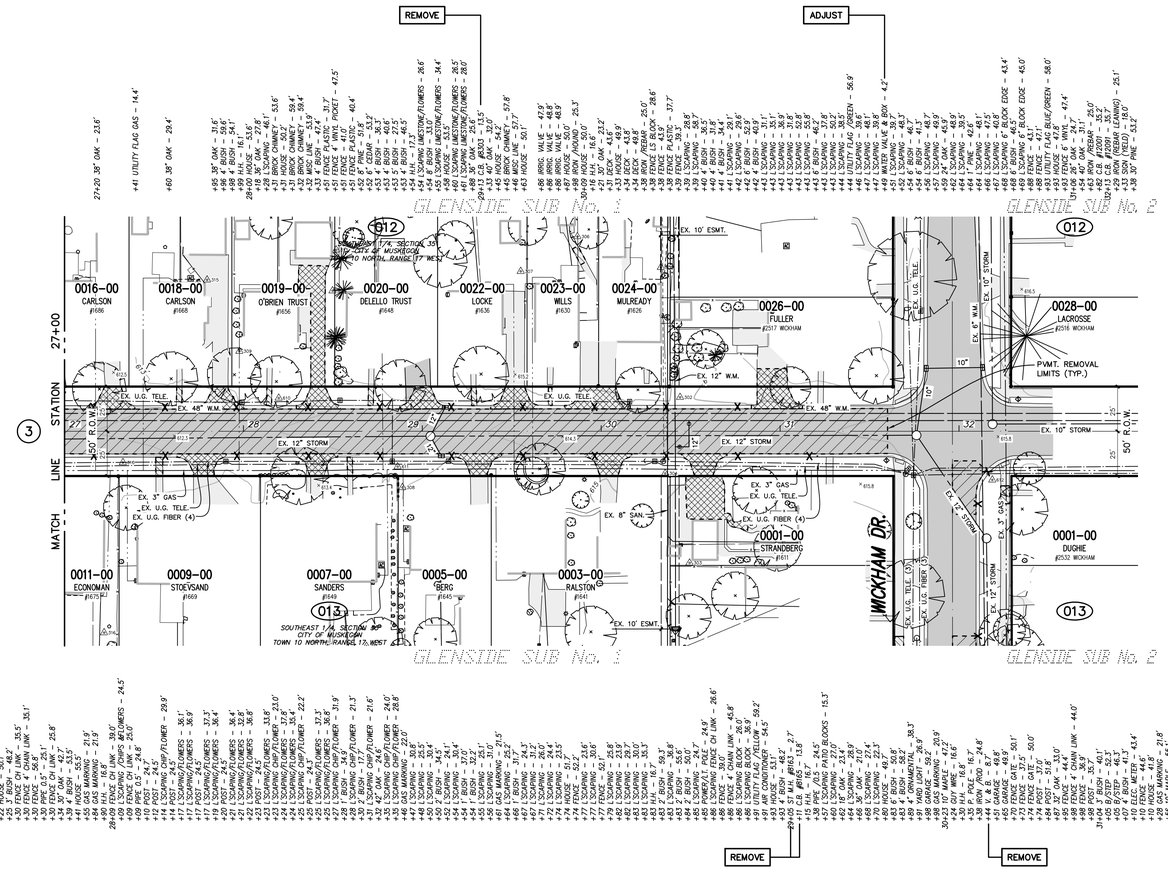
PROJECT NO. 2250950

SHEET NO. 3 OF 36

I:\CIVIL3D PROJECTS\2025\2250950_MUSKEGON_GLENSIDE\4_PROD\2250950_DEMO_WINCHESTER.DWG - JSMITH - May. 21, 2026 - 11:19am - PreinNewhof

B.M.	EL. 616.26
WINCHESTER DRIVE & WICKHAM STREET, SW CORNER OF INTERSECTION, FOUND R.R. SPIKE N SIDE P. POLE (0.8' A/GROUND)	

CONTROL POINT TABLE			
POINT No.	NORTHING	EASTING	ELEVATION
302	627937.77	12612313.40	614.91
304	627895.66	12612303.22	614.65
308	627894.25	12612156.17	613.91
309	627974.34	12612068.45	613.73
310	627915.05	12612000.71	612.51
317	627963.50	12611947.40	612.79
610	627947.23	12612089.28	613.30
611	627905.96	12612154.01	613.78



REMOVAL LEGEND

- REMOVE HMA SURFACE, PAID FOR AS: HMA SURFACE REM
- REMOVE CONCRETE SIDEWALK PAID FOR AS: SIDEWALK, REM
- REMOVE CONCRETE PAVEMENT OR DRIVEWAY, PAID FOR AS: PAVT, REM
- REMOVE CURB, GUTTER OR CURB AND GUTTER, PAID FOR AS: CURB AND GUTTER, REM
- TREE REMOVAL

WINCHESTER DRIVE

(50' RIGHT OF WAY WIDTH 25' WIDE ASPHALT PAVEMENT w/CURB & GUTTER)

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0' 40' 80' 120'

SCALES : 1" = 40' HORZ. (CONTOURS AT ONE FOOT INTERVALS)

NO.	REVISIONS	BY	DATE

DRAWN J.J.S.
DATE MAY '26
CHECKED M.R.H.
DATE MAY '26

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CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN

REMOVAL PLAN

WINCHESTER DRIVE

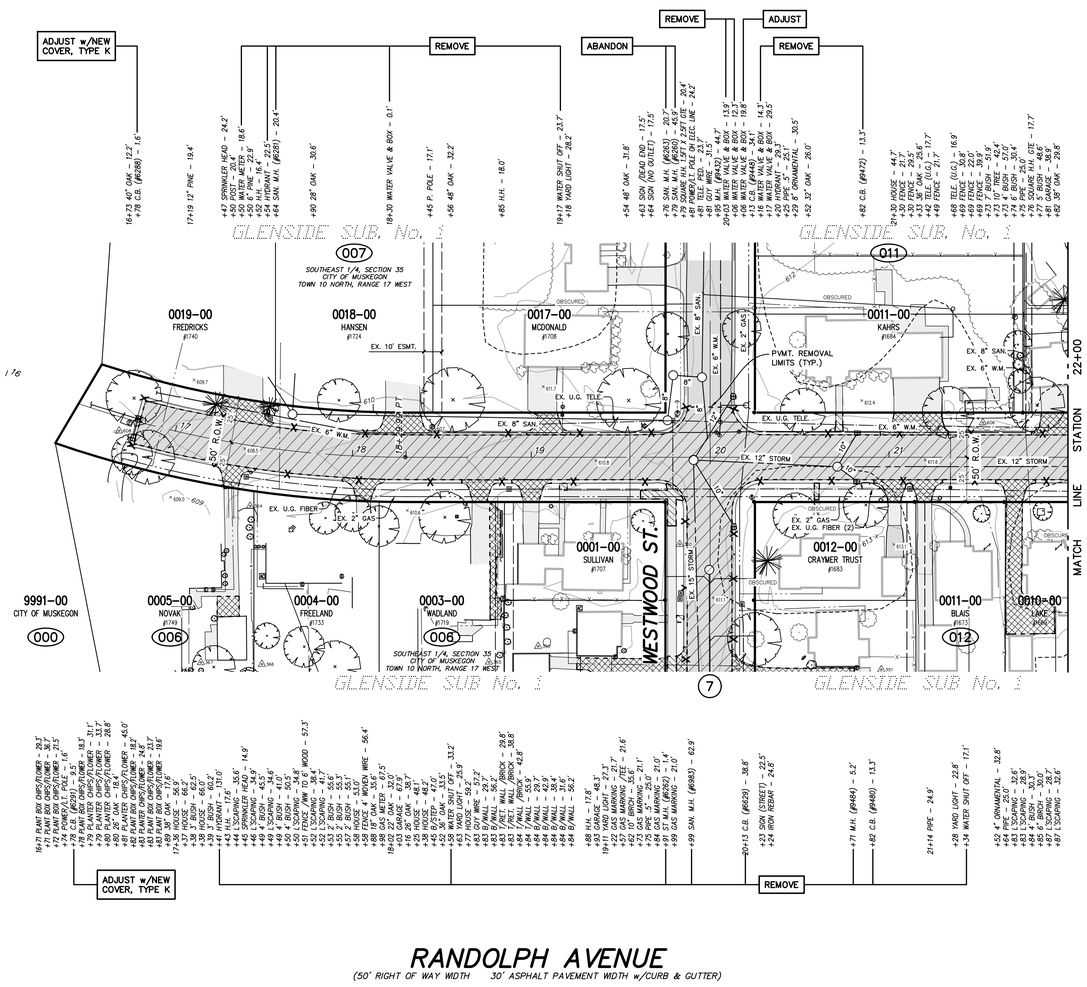
PROJECT NO. 2250950

SHEET NO. 4 OF 36

T:\CIVIL3D PROJECTS\2025\2250950_MUSKEGON_GLENSIDE\4_PROD\2250950_DEMO WINCHESTER.DWG - JSMITH - May 21, 2026 - 11:20am - PreinANewhof

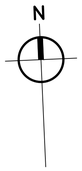
B.M. EL. 613.30
RANDOLPH AVENUE & WESTWOOD STREET, 25'± N & 20'± W OF C/L "X", SET LARGE PK NAIL EAST SIDE OF L. POLE (2.0' A/GROUND)

CONTROL POINT TABLE			
POINT No.	NORTHING	EASTING	ELEVATION
300	628141.77	12611824.40	611.67
364	628173.66	12611585.40	609.49
606	628202.32	12611996.61	612.04
607	628212.37	12611889.15	609.85
608	628218.90	12611514.09	608.25



RANDOLPH AVENUE

(50' RIGHT OF WAY WIDTH 30' ASPHALT PAVEMENT WIDTH w/CURB & GUTTER)



REMOVAL LEGEND

- REMOVE HMA SURFACE, PAID FOR AS: HMA SURFACE REM
- REMOVE CONCRETE SIDEWALK PAID FOR AS: SIDEWALK, REM
- REMOVE CONCRETE PAVEMENT OR DRIVEWAY, PAID FOR AS: PAVT, REM
- REMOVE CURB, GUTTER OR CURB AND GUTTER, PAID FOR AS: CURB AND GUTTER, REM
- TREE REMOVAL

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0' 40' 80' 120'

SCALES : 1" = 40' HORZ. (CONTOURS AT ONE FOOT INTERVALS)

NO.	REVISIONS	BY	DATE

DRAWN J.J.S.
DATE MAY '26
CHECKED M.R.H.
DATE MAY '26

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CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN

REMOVAL PLAN

RANDOLPH AVENUE

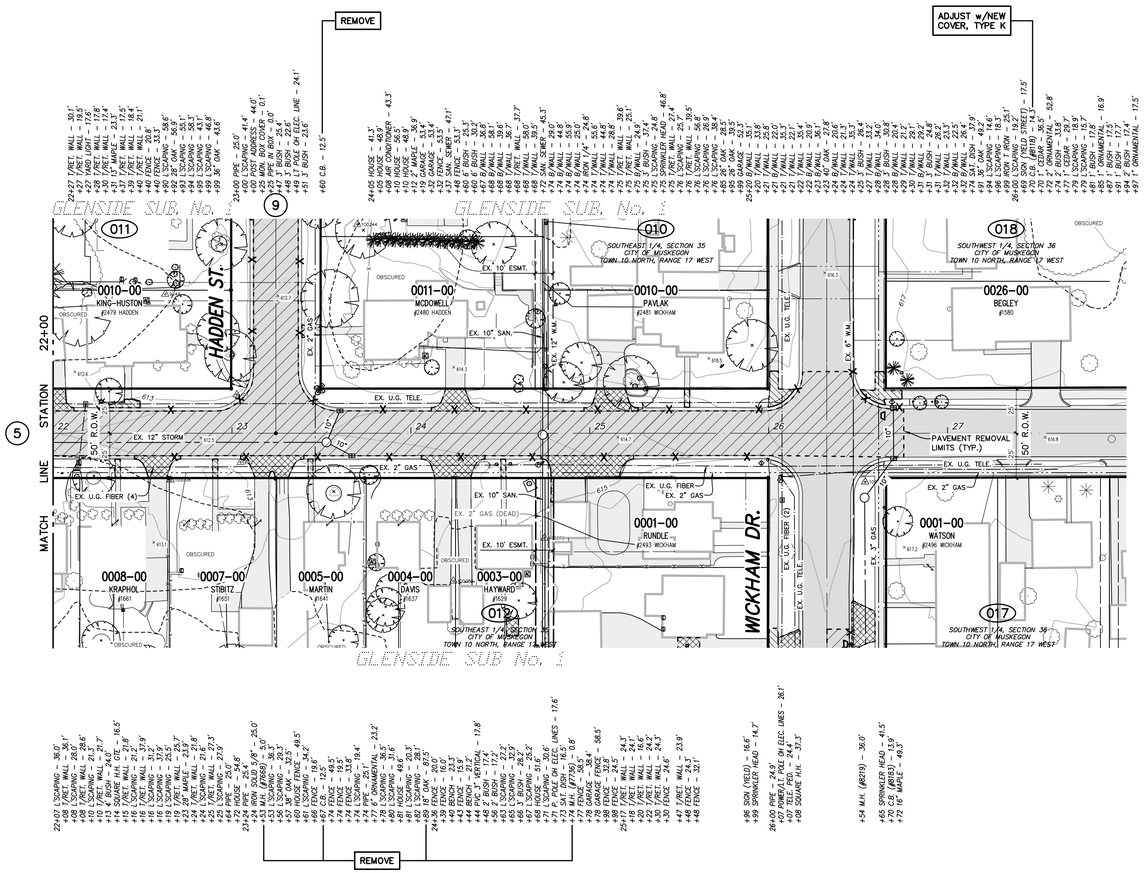
PROJECT NO. 2250950

SHEET NO. 5 OF 36

T:\DWG\0 PROJECTS\2025\2250950_MUSKEGON_GLENSIDE\4_PROD\2250950_DEMO RANDOLPH.DWG - JSMITH - May. 21, 2026 - 11:21am - PrintMinehof

B.M. EL. 614.24
RANDOLPH AVENUE & HADDEN STREET, 25'± N & 25'± E OF C/L "X", SET RR SPIKE IN SW SIDE OF P. POLE

CONTROL POINT TABLE			
POINT No.	NORTHING	EASTING	ELEVATION
101	628133.78	12612495.62	616.55
105	628197.93	12612146.87	612.99
250	628151.95	12612107.92	612.77
602	628160.00	12612147.36	612.97
100000	628133.78	12612495.62	616.55
100008	628151.95	12612107.92	612.77
100079	628110.33	12612315.23	614.56



REMOVAL LEGEND

- REMOVE HMA SURFACE, PAID FOR AS: HMA SURFACE REM
- REMOVE CONCRETE SIDEWALK PAID FOR AS: SIDEWALK, REM
- REMOVE CONCRETE PAVEMENT OR DRIVEWAY, PAID FOR AS: PAVT, REM
- REMOVE CURB, GUTTER OR CURB AND GUTTER, PAID FOR AS: CURB AND GUTTER, REM
- TREE REMOVAL

RANDOLPH AVENUE

(50' RIGHT OF WAY WIDTH 30' ASPHALT PAVEMENT WIDTH w/CURB & GUTTER)

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SCALES : 1" = 40' HORZ. (CONTOURS AT ONE FOOT INTERVALS)

NO.	REVISIONS	BY	DATE

DRAWN J.J.S.
DATE MAY '26
CHECKED M.R.H.
DATE MAY '26

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CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN

REMOVAL PLAN

RANDOLPH AVENUE

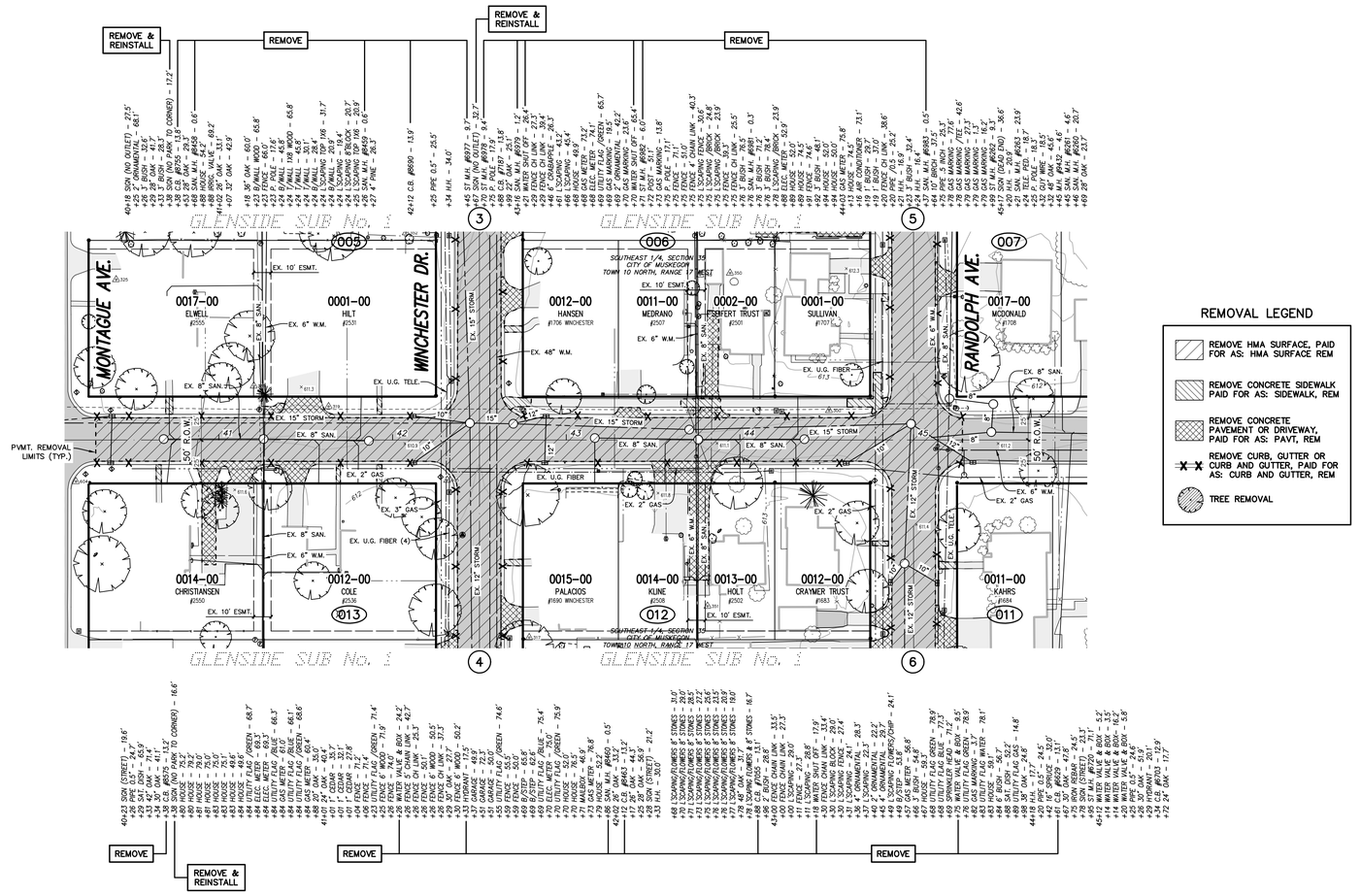
PROJECT NO. 2250950

SHEET NO. 6 OF 36

T:\DWG\ PROJECTS\2025\2250950_MUSKEGON_GLENSIDE_L_PROD\2250950_DEMO RANDOLPH.DWG – JSMITH – May. 21, 2026 – 11:22am – PreinNewhof

B.M.	EL. 612.85
WINCHESTER DR. & WESTWOOD ST., NW CORNER OF INTERSECTION, SET 60D NAIL IN NE SIDE P. POLE	(2.0' A/GROUND)

CONTROL POINT TABLE			
POINT No.	NORTHING	EASTING	ELEVATION
300	628141.77	12611824.40	611.67
318	628061.95	12611820.92	611.16
319	627853.95	12611809.40	611.46
331	627811.53	12611795.69	611.12
605	627920.38	12611854.76	611.35



REMOVAL LEGEND

- REMOVE HMA SURFACE, PAID FOR AS: HMA SURFACE REM
- REMOVE CONCRETE SIDEWALK PAID FOR AS: SIDEWALK, REM
- REMOVE CONCRETE PAVEMENT OR DRIVEWAY, PAID FOR AS: PAVT, REM
- REMOVE CURB, GUTTER OR CURB AND GUTTER, PAID FOR AS: CURB AND GUTTER, REM
- TREE REMOVAL

WESTWOOD STREET

(50' RIGHT OF WAY WIDTH 25' WIDE ASPHALT PAVEMENT w/CURB & GUTTER)

811 Know what's below. Call before you dig.

UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

0' 40' 80' 120'

SCALES : 1" = 40' HORZ. (CONTOURS AT ONE FOOT INTERVALS)

NO.	REVISIONS	BY	DATE

DRAWN J.J.S.
DATE MAY '26
CHECKED M.R.H.
DATE MAY '26

Prein&Newhof
Engineers • Surveyors • Environmental • Laboratory

CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN

REMOVAL PLAN

WESTWOOD STREET

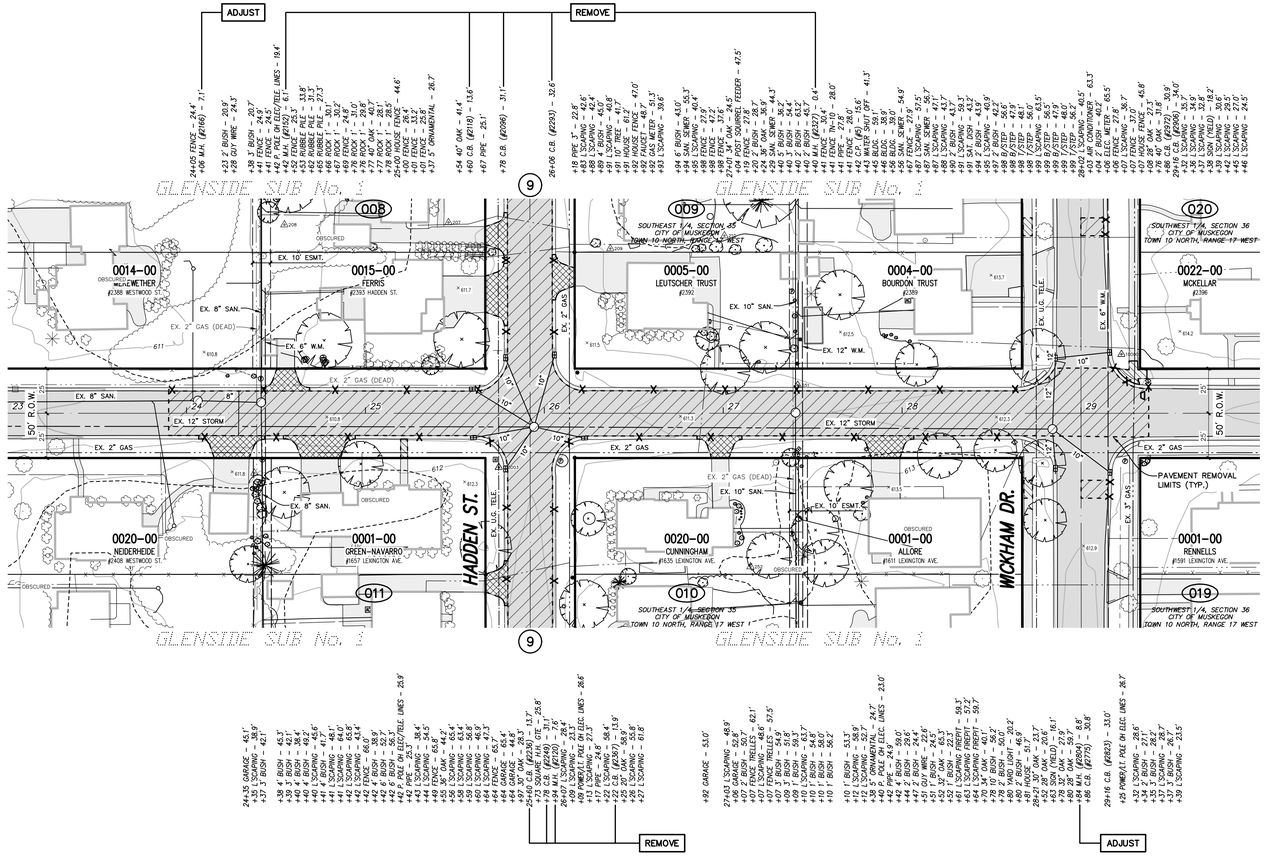
PROJECT NO. 2250950

SHEET NO. 7 OF 36

T:\CIVIL3D PROJECTS\2025\2250950_MUSKEGON_GLENSIDE\4_PROD\2250950_DEMO WESTWOOD.DWG - JSMITH - May. 21, 2026 - 04:18pm - PreinNewhof

B.M. EL. 613.13
LEXINGTON AVENUE & HADDEN STREET, 150'± E & 20'± S OF C/L "X", SET RR SPIKE IN NORTH SIDE OF P. POLE (0.8' A/GROUND)

CONTROL POINT TABLE			
POINT No.	NORTHING	EASTING	ELEVATION
4	628735.25	12612174.80	611.18
5	628773.58	12612343.78	611.95
102	628782.76	12612525.31	613.00
104	628735.25	12612174.80	611.18
251	628773.58	12612343.78	611.95
256	628738.19	12612038.18	615.93
100001	628782.76	12612525.31	613.00
100003	628735.25	12612174.80	611.18



LEXINGTON AVENUE

(50' RIGHT OF WAY WIDTH 25' ASPHALT PAVEMENT WIDTH w/CURB & GUTTER)

N

REMOVAL LEGEND

- REMOVE HMA SURFACE, PAID FOR AS: HMA SURFACE REM
- REMOVE CONCRETE SIDEWALK PAID FOR AS: SIDEWALK, REM
- REMOVE CONCRETE PAVEMENT OR DRIVEWAY, PAID FOR AS: PAVT, REM
- REMOVE CURB, GUTTER OR CURB AND GUTTER, PAID FOR AS: CURB AND GUTTER, REM
- TREE REMOVAL

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0' 40' 80' 120'

SCALES : 1" = 40' HORZ. (CONTOURS AT ONE FOOT INTERVALS)

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DRAWN J.J.S.
DATE MAY '26
CHECKED M.R.H.
DATE MAY '26

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CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN
REMOVAL PLAN
LEXINGTON AVENUE

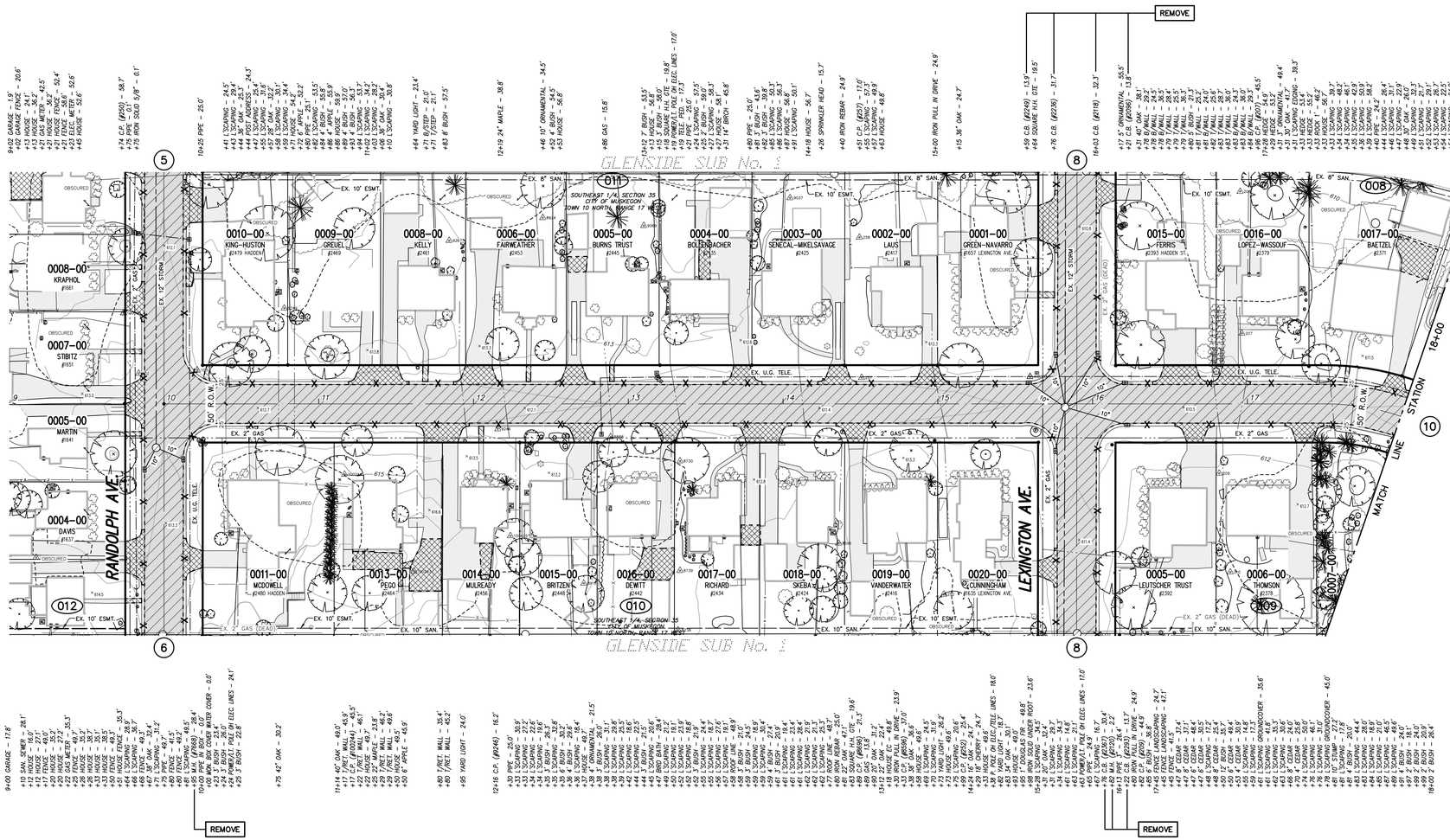
PROJECT NO. 2250950
SHEET NO. 8 OF 36

I:\CIVIL3D PROJECTS\2025\2250950_MUSKEGON_GLENSIDE\4_PROJ\2250950_DEMO_LEXINGTON.DWG - JSMITH - May. 21, 2026 - 11:26am - PrintMeNewhof

B.M.	EL. 614.24
RANDOLPH AVENUE & HADDEN STREET, 25'± N & 25'± E OF C/L "X", SET RR SPIKE IN SW SIDE OF P. POLE	

B.M.	EL. 612.89
HADDEN STREET & LEXINGTON AVENUE, 270'± S & 20'± W OF C/L "X", SET RR SPIKE IN EAST SIDE OF P. POLE (2.0' A/GROUND)	

CONTROL POINT TABLE			
POINT No.	NORTHING	EASTING	ELEVATION
4	628735.25	12612174.80	611.18
104	628735.25	12612174.80	611.18
105	628197.93	12612146.87	612.99
207	628873.22	12612152.84	611.16
209	628854.61	12612242.55	612.53
257	628626.48	12612170.58	611.73
602	628160.00	12612147.36	612.97
8696	628573.19	12612210.65	616.07
8730	628506.89	12612219.33	612.81
8888	628442.79	12612201.69	612.53
9246	628390.20	12612193.41	612.44
100003	628735.25	12612174.80	611.18
100244	628290.00	12612218.36	616.29



REMOVAL LEGEND

- REMOVE HMA SURFACE, PAID FOR AS: HMA SURFACE REM
- REMOVE CONCRETE SIDEWALK, PAID FOR AS: SIDEWALK, REM
- REMOVE CONCRETE PAVEMENT OR DRIVEWAY, PAID FOR AS: PAVT, REM
- REMOVE CURB, GUTTER OR CURB AND GUTTER, PAID FOR AS: CURB AND GUTTER, REM
- TREE REMOVAL

HADDEN STREET

(50' RIGHT OF WAY WIDTH 25' ASPHALT PAVEMENT WIDTH w/CURB & GUTTER)

SCALES : 1" = 40' HORZ. (CONTOURS AT ONE FOOT INTERVALS)

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NO.	REVISIONS	BY	DATE

DRAWN J.J.S.
DATE MAY '26
CHECKED M.R.H.
DATE MAY '26

Prein&Newhof
Engineers • Surveyors • Environmental • Laboratory

CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN

REMOVAL PLAN

HADDEN STREET

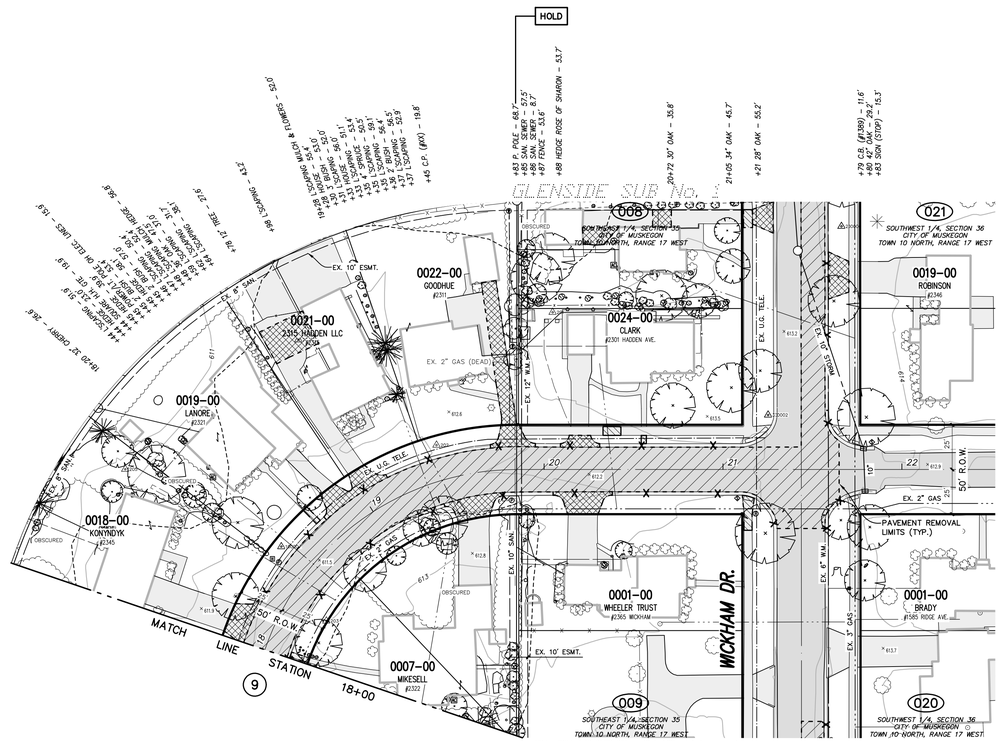
PROJECT NO. 2250950
SHEET NO. 9 OF 36

T:\CIVIL3D PROJECTS\2025\2250950_MUSKEGON_GLENSIDE\4_PROD\2250950_DEMO HADDENLINK - JSMITH - May. 21, 2026 - 11:29am - PrintMeNow!

B.M. EL. 613.23
HADDEN STREET & WICKHAM DRIVE, 190'± W & 50'± N OF C/L "X", HOUSE # 2311, TOP SE CORNER BOTTOM CONC. STEP

CONTROL POINT TABLE

POINT No.	NORTHING	EASTING	ELEVATION
3	629091.90	12612497.76	613.57
103	629091.90	12612497.76	613.57
107	629030.60	12612222.63	611.88
202	629083.40	12612311.83	612.00
203	628987.96	12612245.95	611.89
100002	629091.90	12612497.76	613.57
100007	629030.60	12612222.63	611.88



N

REMOVAL LEGEND

- REMOVE HMA SURFACE, PAID FOR AS: HMA SURFACE REM
- REMOVE CONCRETE SIDEWALK PAID FOR AS: SIDEWALK, REM
- REMOVE CONCRETE PAVEMENT OR DRIVEWAY, PAID FOR AS: PAVT, REM
- REMOVE CURB, GUTTER OR CURB AND GUTTER, PAID FOR AS: CURB AND GUTTER, REM
- TREE REMOVAL

HADDEN STREET

(50' RIGHT OF WAY WIDTH
25' ASPHALT PAVEMENT WIDTH w/CURB & GUTTER)

Know what's below. Call before you dig.

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0' 40' 80' 120'

SCALES : 1" = 40' HORZ. (CONTOURS AT ONE FOOT INTERVALS)

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DATE MAY '26
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CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN
REMOVAL PLAN
HADDEN STREET

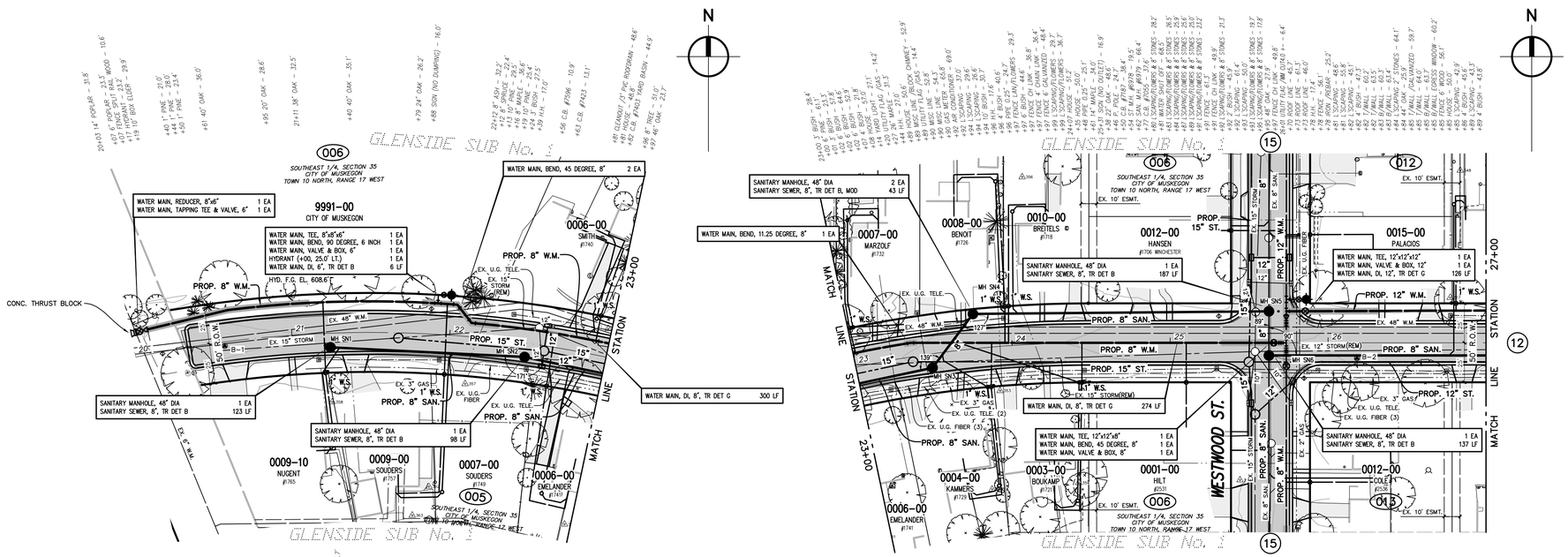
PROJECT NO. 2250950
SHEET NO. 10 OF 36

I:\LDXML3D PROJECTS\2025\2250950_MUSKEGON_GLENSIDE\4_PROD\2250950_3DMD HADDENLDWG - JSMITH - May, 21 2026 - 11:29am - PrintMinehof

B.M. EL. 612.85
WINCHESTER DR. & WESTWOOD ST., NW CORNER OF INTERSECTION, SET 60D NAIL IN NE SIDE P. POLE (2.0' A/GROUND)

CONTROL POINT TABLE

POINT No.	NORTHING	EASTING	ELEVATION
317	627963.50	12611947.40	612.79
352	627902.86	12611711.38	611.11
353	627917.10	12611660.13	610.30
357	627887.85	12611492.65	609.26
358	627846.44	12611418.46	610.19
605	627920.38	12611854.76	611.35
609	627953.33	12611564.35	609.14



SANITARY LATERAL TOTALS (THIS SHEET)

SANITARY SEWER, WYE, 8"x6"	10 EA
SANITARY CLEANOUT	14 EA
SANITARY LATERAL, 6", PUBLIC	390 LF
SANITARY LATERAL, 6", PRIVATE	840 FT
SANITARY LATERAL, CONNECTION TO EX.	10 EA

WATER SERVICE TOTALS (THIS SHEET)

WATER SERVICE, CORPORATION STOP, 1 INCH	11 EA
WATER SERVICE, CURB STOP AND BOX, 1 INCH	11 EA
WATER SERVICE, 1 INCH	1400 LF
WATER SERVICE, RESTORATION, PRIVATE	11 EA

SANITARY SEWER CONSTRUCTION NOTES

1. EXISTING SANITARY SEWER MUST BE ABANDONED IN PLACE UNLESS IN DIRECT CONFLICT WITH THE PROPOSED IMPROVEMENTS. SEWERS TO BE ABANDONED MUST BE FILLED WITH FLOWABLE FILL, MANHOLES OUTSIDE OF THE ROADWAY MUST HAVE THEIR CASTINGS REMOVED AND FILLED WITH COMPACTED CL 11 GRANULAR MATERIAL.
2. ALIGNMENT AND LOCATION OF EXISTING SANITARY SEWER LATERALS ARE FROM AVAILABLE RECORDS AND LOCATING THE LATERALS WITH A SEWER LATERAL CAMERA AND LOCATOR IN 90%± OF RESIDENCES. DEPTH OF LATERALS ARE ESTIMATED TO BE APPROXIMATELY 7 FEET TO 10 FEET DEEP. CONTRACTOR TO FIELD VERIFY LOCATION OF SANITARY LATERALS PRIOR TO INSTALLATION OF WYES.
3. SANITARY SEWER LATERALS MUST BE REPLACED TO THE LATERAL NEAR THE HOUSE. FINAL ALIGNMENT OF LATERAL TO BE VERIFIED IN THE FIELD.
4. CONTRACTOR TO COORDINATE w/RESIDENTS FOR DETERMINING LOCATION OF CONNECTION TO EXISTING LATERALS. SEWER SERVICE IS CURRENTLY FROM THE SANITARY SEWER IN THE EASEMENT. PRIOR TO INSTALLATION, CONTRACTOR MUST VERIFY CONNECTION LOCATION AND DEPTH IN THE PRESENCE OF THE PROPERTY OWNER AND ENGINEER. CONNECTION TO EXISTING SANITARY SEWER MUST MATCH EX. PIPE SLOPE & ALIGNMENT.

WATER MAIN CONSTRUCTION NOTES

1. CONTRACTOR MUST PROVIDE A MINIMUM OF 18" VERTICAL CLEARANCE AND 10' HORIZONTAL CLEARANCE BETWEEN PROPOSED WATER MAIN, AND STORM AND SANITARY SEWERS.
2. USE HYDRANT EXTENSIONS OR VERTICAL BENDS ON HYDRANT LEADS TO ENSURE HYDRANT BREAKAWAY FLANGE IS 3"±/– FROM FINISHED GRADE. COST MUST BE INCLUDED IN THE HYDRANT PAY ITEM.
3. ALL HYDRANTS MUST BE RESTRAINED TO THE TEE.

WATER SERVICE CONSTRUCTION NOTES

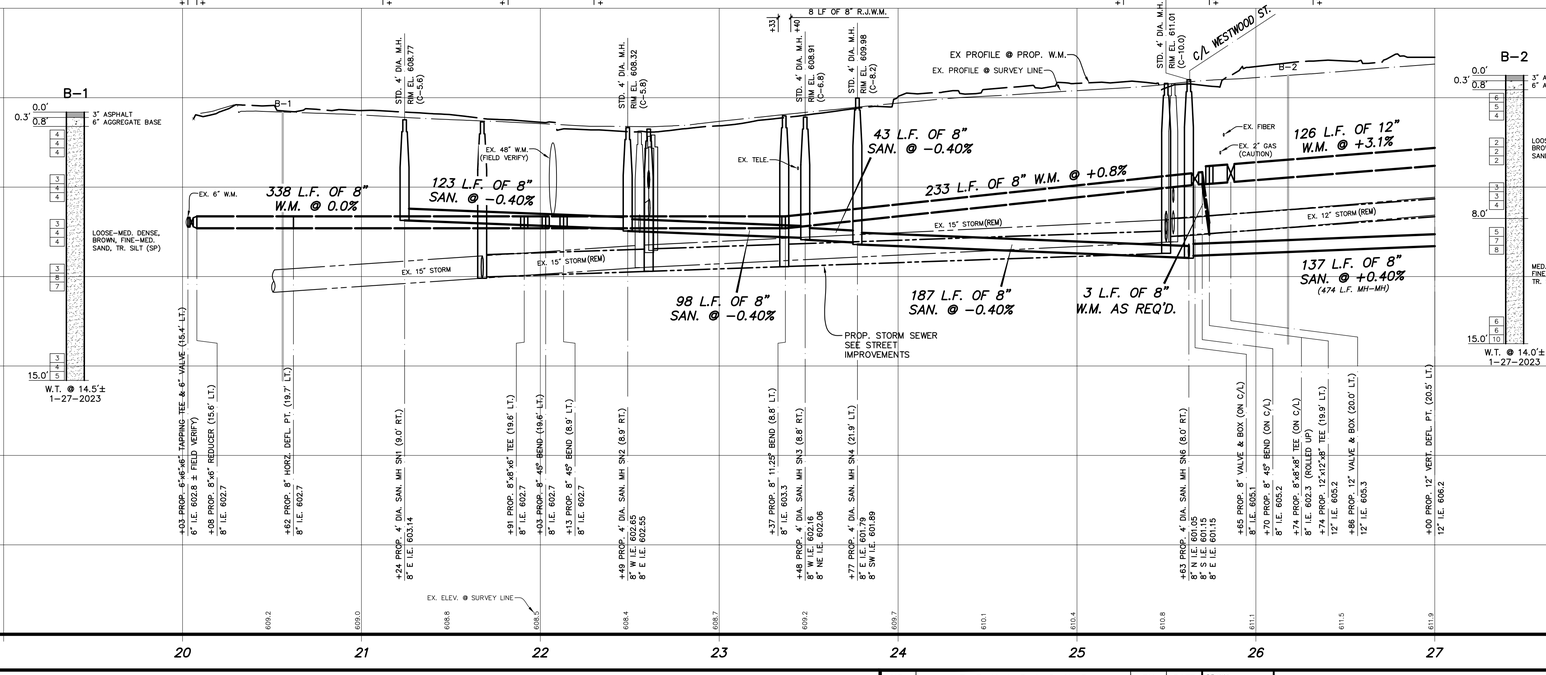
1. WATER SERVICES SHOWN ON THE PLANS ARE LOCATED BASED ON RECORDS AND VISUAL INSPECTION OF THE METER LOCATION INSIDE THE RESIDENCE. ACTUAL LOCATION MAY BE DIFFERENT THAN SHOWN. ALIGNMENT OF EXISTING WATER SERVICES FROM THE CURB STOP BOX TO THE HOUSE IS UNKNOWN AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO REPLACEMENT.
2. WATER SERVICES ARE TO BE REPLACED TO THE WATER METER OR TO 18 INCHES INSIDE THE BUILDING, LOCATION OF ENTRY INTO THE RESIDENCE, AND PLUMBING REQUIRED TO CONNECT TO THE EXISTING METER MUST BE APPROVED BY THE HOME OWNER AND ENGINEER PRIOR TO INSTALLATION. A NEW CURB STOP MUST BE INSTALLED AT THE PROPERTY LINE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE AND COMMUNICATE WITH THE PROPERTY OWNER AND RESIDENT FOR ENTRY INTO THE RESIDENCE.
3. CONTRACTOR TO COORDINATE WITH THE CITY FOR METER REMOVAL AND REINSTALLATION.

WINCHESTER DRIVE

(50' RIGHT OF WAY WIDTH)

5 LF OF 6" R.J.W.M. | 104 LF OF 8" R.J.W.M. | 54 LF OF 8" R.J.W.M. | 8 LF OF 8" R.J.W.M. | 41 LF OF 8" R.J.W.M. | 58 LF OF 12" R.J.W.M.

25' WIDE ASPHALT PAVEMENT w/CURB & GUTTER)



SCALES : 1" = 40' HORZ. (CONTOURS AT ONE FOOT INTERVALS)
1" = 4' VERT.

NO.	REVISIONS	BY	DATE

DRAWN J.J.S.
DATE MAY '26
CHECKED M.R.H.
DATE MAY '26

Prein&Newhof
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CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN

UTILITY IMPROVEMENTS
WINCHESTER DRIVE

PROJECT NO. 2250950
SHEET NO. 11 OF 36

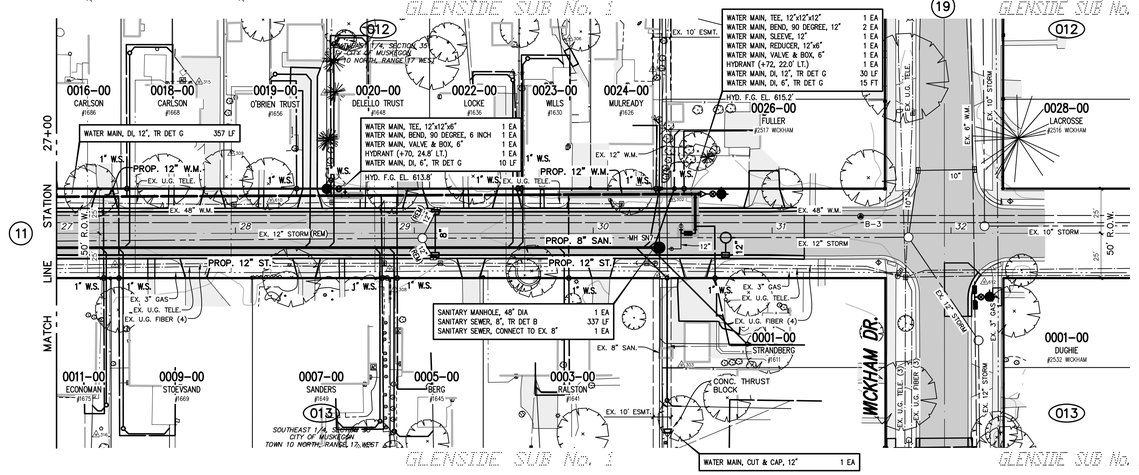
811 Know what's below. Call before you dig.
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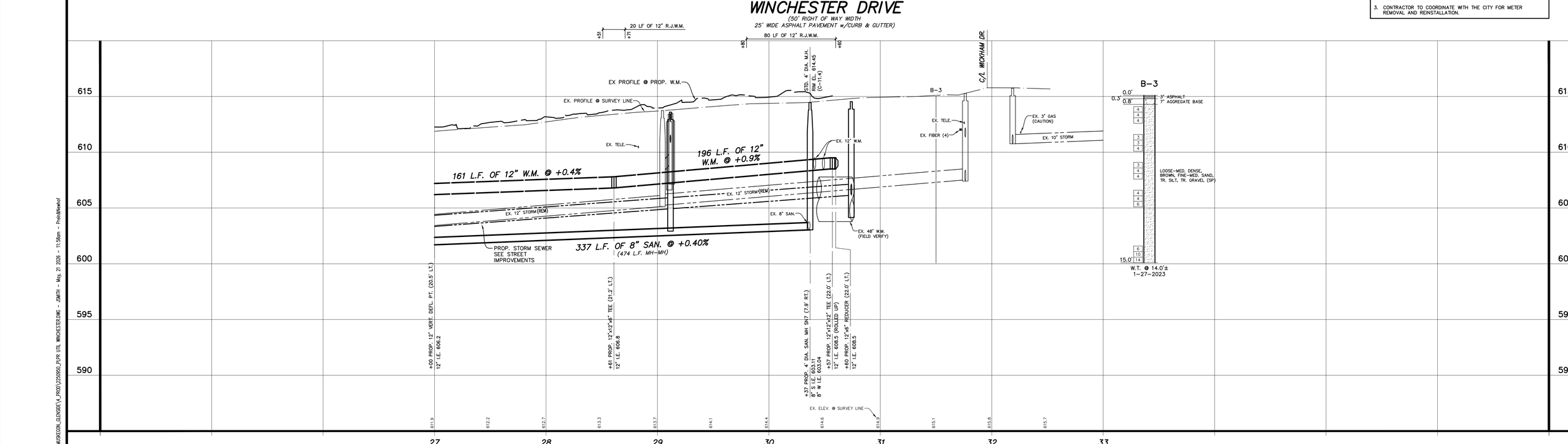
T:\CIVIL3D PROJECTS\2025\2250950_MUSKEGON_GLENSIDE\4_PROD\2250950_PLPR UTIL WINCHESTER.DWG – JVEENSTRA – May 22, 2026 – 02:05pm – PreinNewhof

B.M. EL. 616.26
WINCHESTER DRIVE & WICKHAM STREET, SW CORNER OF INTERSECTION, FOUND R.R. SPIKE N SIDE P. POLE (0.8' A/GROUND)

CONTROL POINT TABLE

POINT No.	NORTHING	EASTING	ELEVATION
302	627937.77	12612313.40	614.91
304	627895.66	12612303.22	614.65
308	627894.25	12612156.17	613.91
309	627974.34	12612068.45	613.73
310	627915.05	12612000.71	612.51
317	627963.50	12611947.40	612.79
610	627947.23	12612089.28	613.30
611	627905.96	12612154.01	613.78





SANITARY LATERAL TOTALS (THIS SHEET)

SANITARY SEWER, WYE, 8"x6"	14 EA
SANITARY CLEANOUT	15 EA
SANITARY LATERAL, 6", PUBLIC	385 LF
SANITARY LATERAL, 6", PRIVATE	1200 FT
SANITARY LATERAL, CONNECTION TO EX.	14 EA

WATER SERVICE TOTALS (THIS SHEET)

WATER SERVICE, CORPORATION STOP, 1 INCH	13 EA
WATER SERVICE, CURB STOP AND BOX, 1 INCH	13 EA
WATER SERVICE, 1 INCH	1710 LF
WATER SERVICE, RESTORATION, PRIVATE	13 EA

SANITARY SEWER CONSTRUCTION NOTES

1. EXISTING SANITARY SEWER MUST BE ABANDONED IN PLACE UNLESS IN DIRECT CONFLICT WITH THE PROPOSED IMPROVEMENTS. SEWERS TO BE ABANDONED MUST BE FILLED WITH FLOWABLE FILL, MANHOLES OUTSIDE OF THE ROADWAY MUST HAVE THEIR CASTINGS REMOVED AND FILLED WITH COMPACTED CL 11 GRANULAR MATERIAL.
2. ALIGNMENT AND LOCATION OF EXISTING SANITARY SEWER LATERALS ARE FROM AVAILABLE RECORDS AND LOCATING THE LATERALS WITH A SEWER LATERAL CAMERA AND LOCATOR IN 90%± OF RESIDENCES. DEPTH OF LATERALS ARE ESTIMATED TO BE APPROXIMATELY 7 FEET TO 10 FEET DEEP. CONTRACTOR TO FIELD VERIFY LOCATION OF SANITARY LATERALS PRIOR TO INSTALLATION OF WYES.
3. SANITARY SEWER LATERALS MUST BE REPLACED TO THE LATERAL NEAR THE HOUSE. FINAL ALIGNMENT OF LATERAL TO BE VERIFIED IN THE FIELD.
4. CONTRACTOR TO COORDINATE w/RESIDENTS FOR DETERMINING LOCATION OF CONNECTION TO EXISTING LATERALS. SEWER SERVICE IS CURRENTLY FROM THE SANITARY SEWER IN THE EASEMENT. PRIOR TO INSTALLATION, CONTRACTOR MUST VERIFY CONNECTION LOCATION AND DEPTH IN THE PRESENCE OF THE PROPERTY OWNER AND ENGINEER. CONNECTION TO EXISTING SANITARY SEWER MUST MATCH EX. PIPE SLOPE & ALIGNMENT.

WATER MAIN CONSTRUCTION NOTES

1. CONTRACTOR MUST PROVIDE A MINIMUM OF 18" VERTICAL CLEARANCE AND 10' HORIZONTAL CLEARANCE BETWEEN PROPOSED WATER MAIN, AND STORM AND SANITARY SEWERS.
2. USE HYDRANT EXTENSIONS OR VERTICAL BENDS ON HYDRANT LEADS TO ENSURE HYDRANT BREAKAWAY FLANGE IS 3"±/- FROM FINISHED GRADE. COST MUST BE INCLUDED IN THE HYDRANT PAY ITEM.
3. ALL HYDRANTS MUST BE RESTRAINED TO THE TEE.

WATER SERVICE CONSTRUCTION NOTES

1. WATER SERVICES SHOWN ON THE PLANS ARE LOCATED BASED ON RECORDS AND VISUAL INSPECTION OF THE METER LOCATION INSIDE THE RESIDENCE. ACTUAL LOCATION MAY BE DIFFERENT THAN SHOWN. ALIGNMENT OF EXISTING WATER SERVICES FROM THE CURB STOP BOX TO THE HOUSE IS UNKNOWN AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO REPLACEMENT.
2. WATER SERVICES ARE TO BE REPLACED TO THE WATER METER OR TO 18 INCHES INSIDE THE BUILDING. LOCATION OF ENTRY INTO THE RESIDENCE, AND PLUMBING REQUIRED TO CONNECT TO THE EXISTING METER MUST BE APPROVED BY THE HOME OWNER AND ENGINEER PRIOR TO INSTALLATION. A NEW CURB STOP MUST BE INSTALLED AT THE PROPERTY LINE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE AND COMMUNICATE WITH THE PROPERTY OWNER AND RESIDENT FOR ENTRY INTO THE RESIDENCE.
3. CONTRACTOR TO COORDINATE WITH THE CITY FOR METER REMOVAL AND REINSTALLATION.

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SCALES : 1" = 40' HORZ. (CONTOURS AT ONE FOOT INTERVALS)
1" = 4' VERT.

NO.	REVISIONS	BY	DATE

DRAWN J.J.S.
DATE MAY '26
CHECKED M.R.H.
DATE MAY '26

Prein&Newhof
Engineers • Surveyors • Environmental • Laboratory

CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN
UTILITY IMPROVEMENTS
WINCHESTER DRIVE

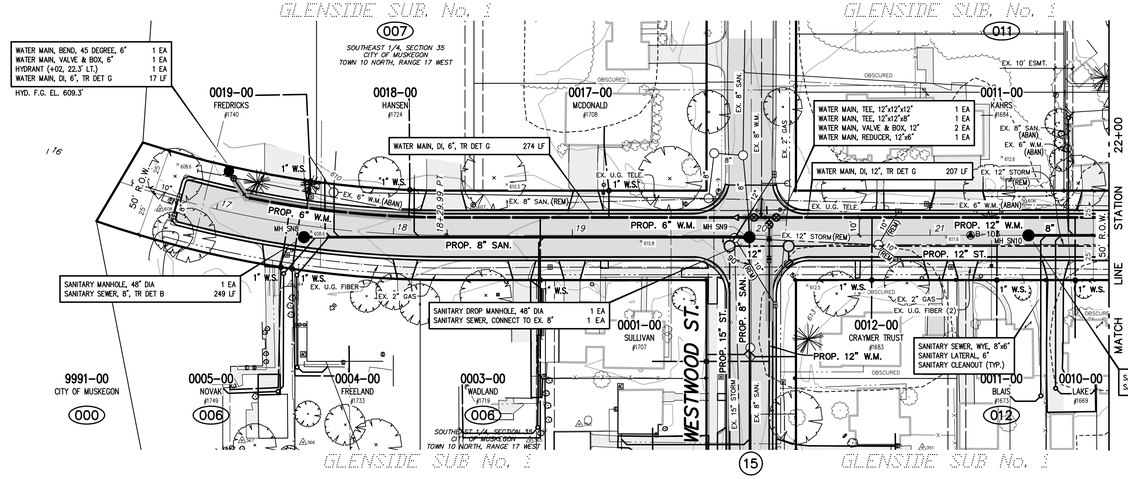
PROJECT NO. 2250950
SHEET NO. 12 OF 36

T:\CIVIL3D PROJECTS\2025\2250950_MUSKEGON_GLENSIDE\4_PROD\2250950_PLPR UTIL WINCHESTER.DWG - JSMITH - May. 21 2026 - 11:58am - PreinNewhof

B.M. EL. 613.30
RANDOLPH AVENUE & WESTWOOD STREET, 25'± N & 20'± W OF C/L "X", SET LARGE PK NAIL EAST SIDE OF L. POLE (2.0' A/GROUND)

CONTROL POINT TABLE

POINT No.	NORTHING	EASTING	ELEVATION
300	628141.77	12611824.40	611.67
364	628173.66	12611585.40	609.49
606	628202.32	12611396.61	612.04
607	628212.37	12611889.15	609.85
608	628218.90	12611514.09	608.25



TOPOGRAPHY TEXT NOTE

TOPOGRAPHY TEXT SHOWN FOR INFORMATION ONLY. SEE REMOVAL PLANS FOR ACTION ITEMS.

N

SANITARY LATERAL TOTALS (THIS SHEET)

SANITARY SEWER, WYE, 8"x6"	9 EA
SANITARY CLEANOUT	8 EA
SANITARY LATERAL, 6", PUBLIC	215 LF
SANITARY LATERAL, 6", PRIVATE	525 FT
SANITARY LATERAL, CONNECTION TO EX.	9 EA

WATER SERVICE TOTALS (THIS SHEET)

WATER SERVICE, CORPORATION STOP, 1 INCH	9 EA
WATER SERVICE, CURB STOP AND BOX, 1 INCH	9 EA
WATER SERVICE, 1 INCH	900 LF
WATER SERVICE, RESTORATION, PRIVATE	9 EA

SANITARY SEWER CONSTRUCTION NOTES

1. EXISTING SANITARY SEWER MUST BE ABANDONED IN PLACE UNLESS IN DIRECT CONFLICT WITH THE PROPOSED IMPROVEMENTS. SEWERS TO BE ABANDONED MUST BE FILLED WITH FLOWABLE FILL, MANHOLES OUTSIDE OF THE ROADWAY MUST HAVE THEIR CASTINGS REMOVED AND FILLED WITH COMPACTED CL 11 GRANULAR MATERIAL.
2. ALIGNMENT AND LOCATION OF EXISTING SANITARY SEWER LATERALS ARE FROM AVAILABLE RECORDS AND LOCATING THE LATERALS WITH A SEWER LATERAL CAMERA AND LOCATOR IN 90%± OF RESIDENCES. DEPTH OF LATERALS ARE ESTIMATED TO BE APPROXIMATELY 7 FEET TO 10 FEET DEEP. CONTRACTOR TO FIELD VERIFY LOCATION OF SANITARY LATERALS PRIOR TO INSTALLATION OF WYES.
3. SANITARY SEWER LATERALS MUST BE REPLACED TO THE LATERAL NEAR THE HOUSE. FINAL ALIGNMENT OF LATERAL TO BE VERIFIED IN THE FIELD.
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WATER MAIN CONSTRUCTION NOTES

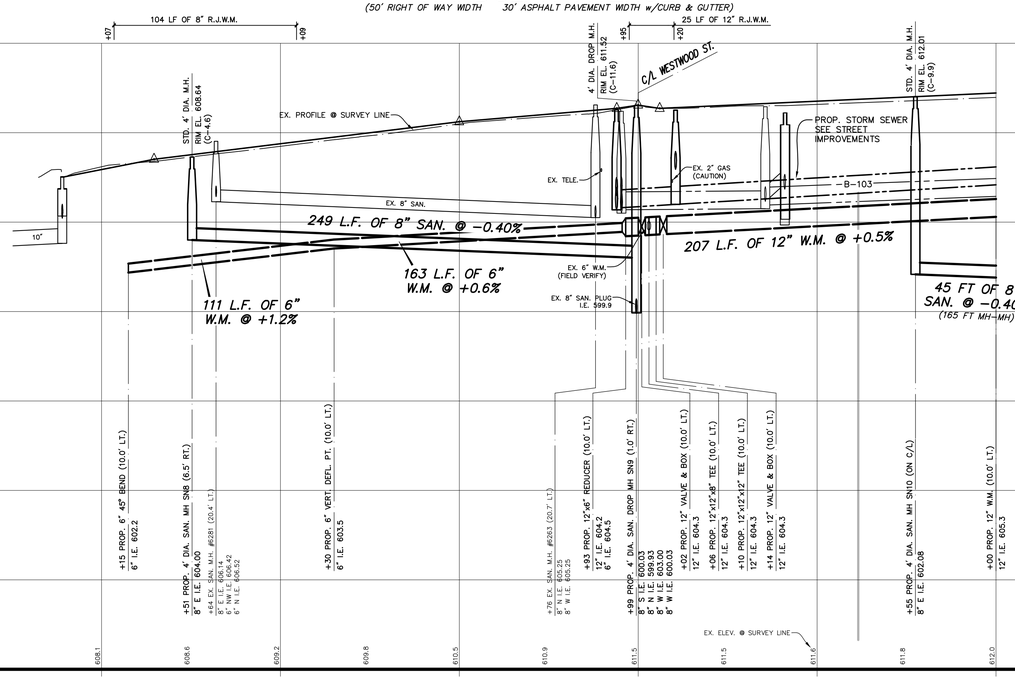
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2. USE HYDRANT EXTENSIONS OR VERTICAL BENDS ON HYDRANT LEADS TO ENSURE HYDRANT BREAKAWAY FLANGE IS 3"+/– FROM FINISHED GRADE. COST MUST BE INCLUDED IN THE HYDRANT PAY ITEM.
3. ALL HYDRANTS MUST BE RESTRAINED TO THE TEE.

WATER SERVICE CONSTRUCTION NOTES

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2. WATER SERVICES ARE TO BE REPLACED TO THE WATER METER OR TO 18 INCHES INSIDE THE BUILDING. LOCATION OF ENTRY INTO THE RESIDENCE, AND PLUMBING REQUIRED TO CONNECT TO THE EXISTING METER MUST BE APPROVED BY THE HOME OWNER AND ENGINEER PRIOR TO INSTALLATION. A NEW CURB STOP MUST BE INSTALLED AT THE PROPERTY LINE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE AND COMMUNICATE WITH THE PROPERTY OWNER AND RESIDENT FOR ENTRY INTO THE RESIDENCE.
3. CONTRACTOR TO COORDINATE WITH THE CITY FOR METER REMOVAL AND REINSTALLATION.

RANDOLPH AVENUE

(50' RIGHT OF WAY WIDTH 30' ASPHALT PAVEMENT WIDTH w/CURB & GUTTER)



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1" = 4' VERT.

NO.	REVISIONS	BY	DATE

DRAWN J.J.S.
DATE MAY '26
CHECKED M.R.H.
DATE MAY '26

Prein&Newhof
Engineers • Surveyors • Environmental • Laboratory

CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN

UTILITY IMPROVEMENTS

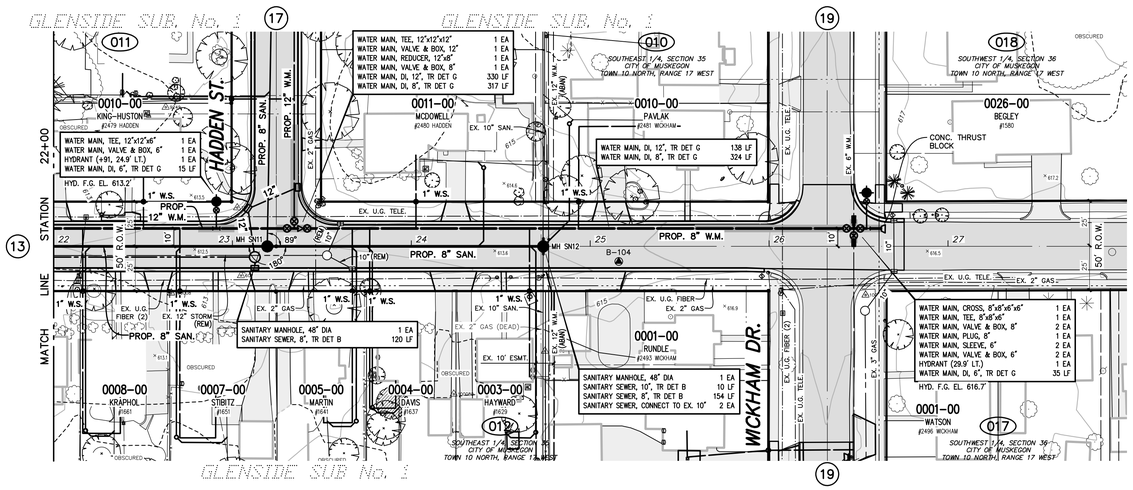
RANDOLPH AVENUE

PROJECT NO. 2250950
SHEET NO. 13 OF 36

T:\CIVIL3D PROJECTS\2025\2250950_MUSKEGON_GLENSIDE\4_PROD\2250950_PLPR UTIL RANDOLPH.DWG – JSMITH – May 21 2026 – 12:00pm – PrintAllNewPdf

B.M. EL. 614.24
RANDOLPH AVENUE & HADDEN STREET, 25'± N & 25'± E OF C/L "X", SET RR SPIKE IN SW SIDE OF P. POLE

CONTROL POINT TABLE			
POINT No.	NORTHING	EASTING	ELEVATION
101	628133.78	12612495.62	616.55
105	628197.93	12612146.87	612.99
250	628151.95	12612107.92	612.77
602	628160.00	12612147.36	612.97
100000	628133.78	12612495.62	616.55
100008	628151.95	12612107.92	612.77
100079	628110.33	12612315.23	614.56



TOPOGRAPHY TEXT NOTE

TOPOGRAPHY TEXT SHOWN FOR INFORMATION ONLY. SEE REMOVAL PLANS FOR ACTION ITEMS.

N

SANITARY LATERAL TOTALS (THIS SHEET)	
SANITARY SEWER, WYE, 8"x6"	7 EA
SANITARY CLEANOUT	7 EA
SANITARY LATERAL, 6", PUBLIC	190 LF
SANITARY LATERAL, 6", PRIVATE	560 FT
SANITARY LATERAL, CONNECTION TO EX.	7 EA

WATER SERVICE TOTALS (THIS SHEET)	
WATER SERVICE, CORPORATION STOP, 1 INCH	8 EA
WATER SERVICE, CURB STOP AND BOX, 1 INCH	8 EA
WATER SERVICE, 1 INCH	800 LF
WATER SERVICE, RESTORATION, PRIVATE	8 EA

SANITARY SEWER CONSTRUCTION NOTES

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WATER MAIN CONSTRUCTION NOTES

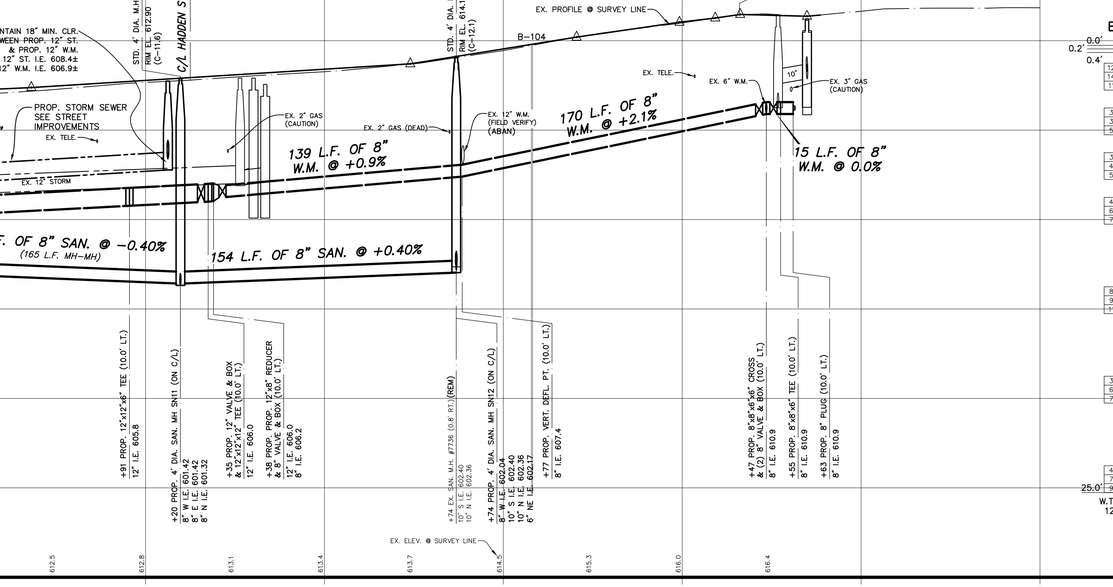
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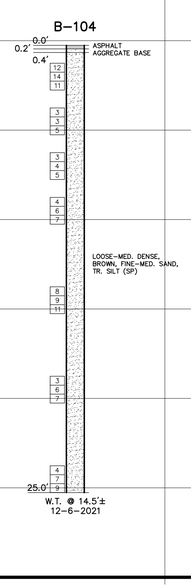
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RANDOLPH AVENUE

(50' RIGHT OF WAY WIDTH 30' ASPHALT PAVEMENT WIDTH w/CURB & GUTTER)





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NO.	REVISIONS	BY	DATE

DRAWN J.J.S.
DATE MAY '26
CHECKED M.R.H.
DATE MAY '26

Prein&Newhof
Engineers • Surveyors • Environmental • Laboratory

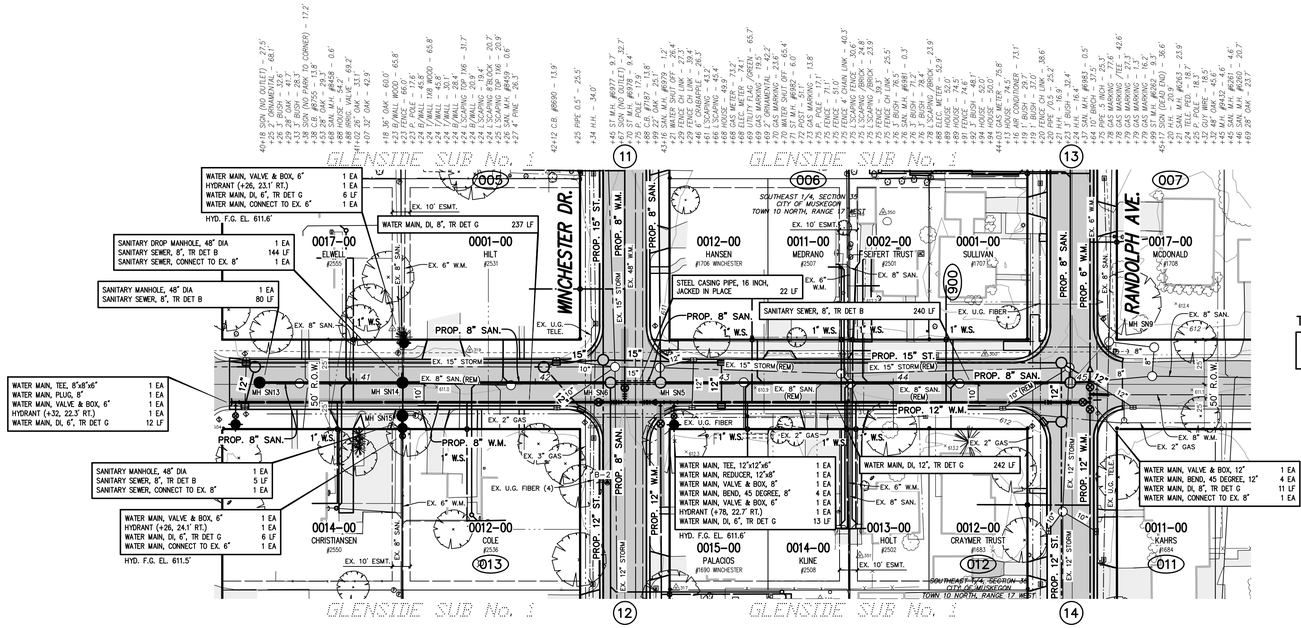
CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN
UTILITY IMPROVEMENTS
RANDOLPH AVENUE

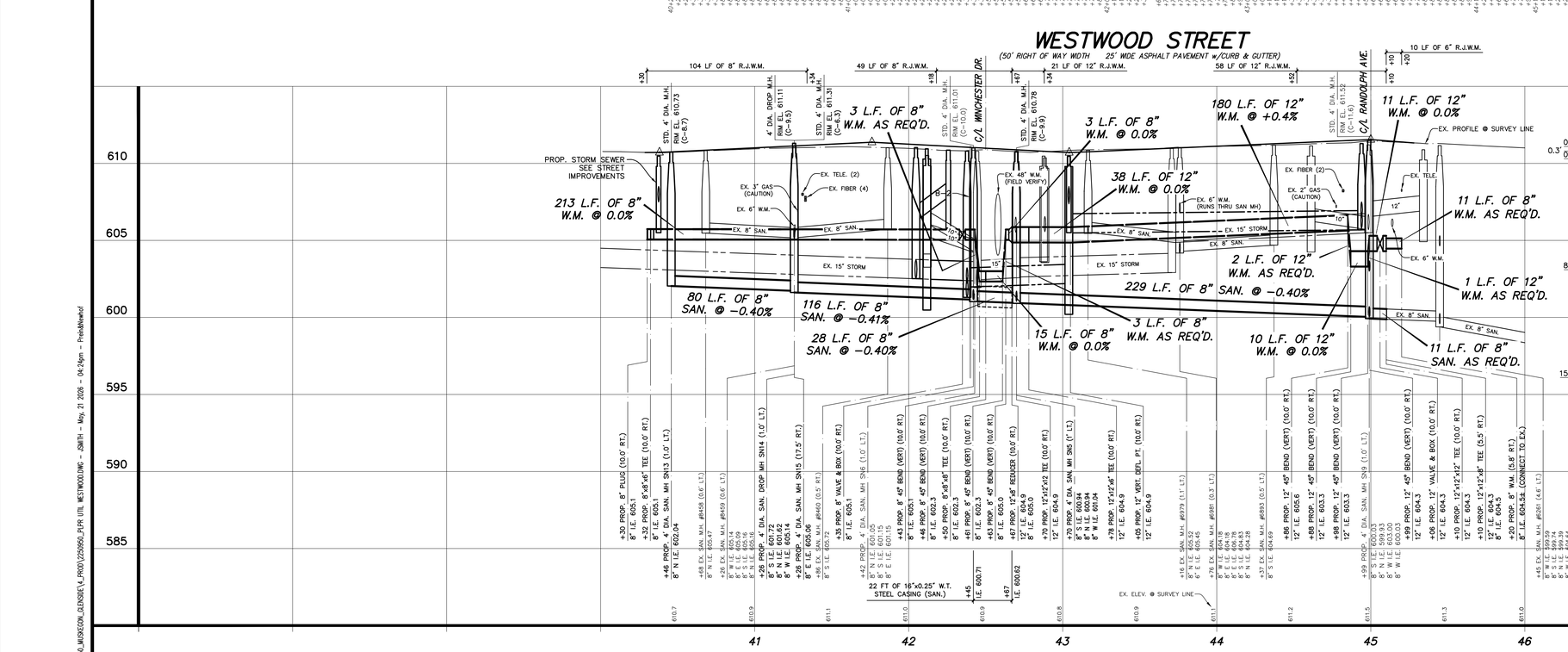
PROJECT NO. 2250950
SHEET NO. 14 OF 36

T:\CIVIL3D PROJECTS\2025\2250950_MUSKEGON_GLENSIDE\4_PROD\2250950_PLPR UTIL RANDOLPH.DWG - JSMITH - May 21, 2026 - 12:01pm - PrintAllViewsPdf

B.M.	EL. 612.85
WINCHESTER DR. & WESTWOOD ST., NW CORNER OF INTERSECTION, SET 60D NAIL IN NE SIDE P. POLE (2.0' A/GROUND)	

CONTROL POINT TABLE			
POINT No.	NORTHING	EASTING	ELEVATION
300	628141.77	12611824.40	611.87
318	628061.95	12611820.92	611.16
319	627853.95	12611809.40	611.46
331	627811.53	12611795.69	611.12
605	627920.38	12611854.76	611.35





SANITARY LATERAL TOTALS (THIS SHEET)

SANITARY SEWER, WYE, 8"x6"	12 EA
SANITARY CLEANOUT	6 EA
SANITARY LATERAL, 6", PUBLIC	315 LF
SANITARY LATERAL, 6", PRIVATE	375 FT
SANITARY LATERAL, CONNECTION TO EX.	12 EA

WATER SERVICE TOTALS (THIS SHEET)

WATER SERVICE, CORPORATION STOP, 1 INCH	10 EA
WATER SERVICE, CURB STOP AND BOX, 1 INCH	10 EA
WATER SERVICE, 1 INCH	775 LF
WATER SERVICE, RESTORATION, PRIVATE	10 EA

SANITARY SEWER CONSTRUCTION NOTES

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TOPOGRAPHY TEXT NOTE

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UTILITY CLEARANCE NOTE

18" MIN. CLR. BETWEEN TOP OF PROP. 8" W.M. AND BOT. EX. 48" W.M. AT STA. 42+58± AND TOP OF PROP. 12" W.M. & BOT. PROP. 12" ST. AT STA. 44+94

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1" = 4' VERT.

NO.	REVISIONS	BY	DATE

DRAWN J.J.S.
DATE MAY '26
CHECKED M.R.H.
DATE MAY '26

Prein&Newhof
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CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN
UTILITY IMPROVEMENTS
WESTWOOD STREET

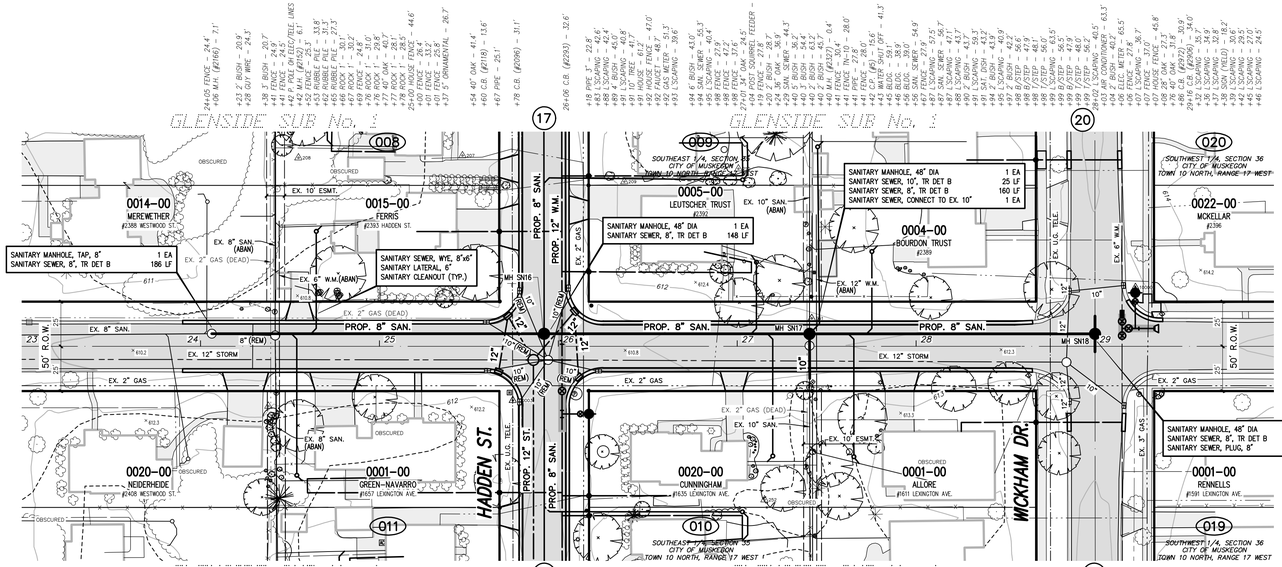
PROJECT NO. 2250950
SHEET NO. 15 OF 36

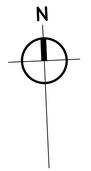
I:\CIVIL3D PROJECTS\2025\2250950_MUSKEGON_GLENSIDE\4_PROD\2250950_PLOP UTIL WESTWOOD.DWG - JSMITH - May 21 2026 - 04:24pm - PrintAllViewsPort

B.M. EL. 613.13
LEXINGTON AVENUE & HADDEN STREET, 150'± E & 20'± S OF C/L "X", SET RR SPIKE IN NORTH SIDE OF P. POLE (0.8' A/GROUND)

CONTROL POINT TABLE

POINT No.	NORTHING	EASTING	ELEVATION
4	628735.25	12612174.80	611.18
5	628773.58	12612343.78	611.95
102	628782.76	12612525.31	613.00
104	628735.25	12612174.80	611.18
251	628773.58	12612343.78	611.95
256	628738.19	12612038.18	615.93
100001	628782.76	12612525.31	613.00
100003	628735.25	12612174.80	611.18





SANITARY LATERAL TOTALS (THIS SHEET)

SANITARY SEWER, WYE, 8"x6"	7 EA
SANITARY CLEANOUT	7 EA
SANITARY LATERAL, 6", PUBLIC	175 LF
SANITARY LATERAL, 6", PRIVATE	350 LF
SANITARY LATERAL, CONNECT TO EX.	7 EA

TOPOGRAPHY TEXT NOTE

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SANITARY SEWER CONSTRUCTION NOTES

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WATER MAIN CONSTRUCTION NOTES

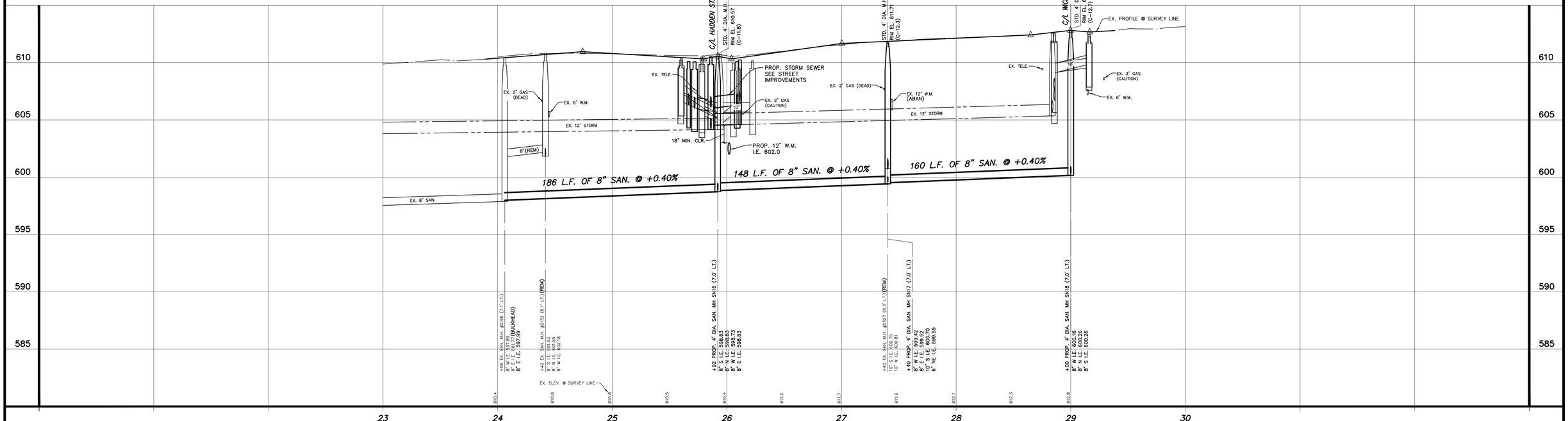
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LEXINGTON AVENUE

(50' RIGHT OF WAY WIDTH 25' ASPHALT PAVEMENT WIDTH w/CURB & GUTTER)



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DATE MAY '26
CHECKED M.R.H.
DATE MAY '26

Prein&Newhof
Engineers • Surveyors • Environmental • Laboratory

CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN
UTILITY IMPROVEMENTS
LEXINGTON AVENUE

PROJECT NO. 2250950
SHEET NO. 16 OF 36

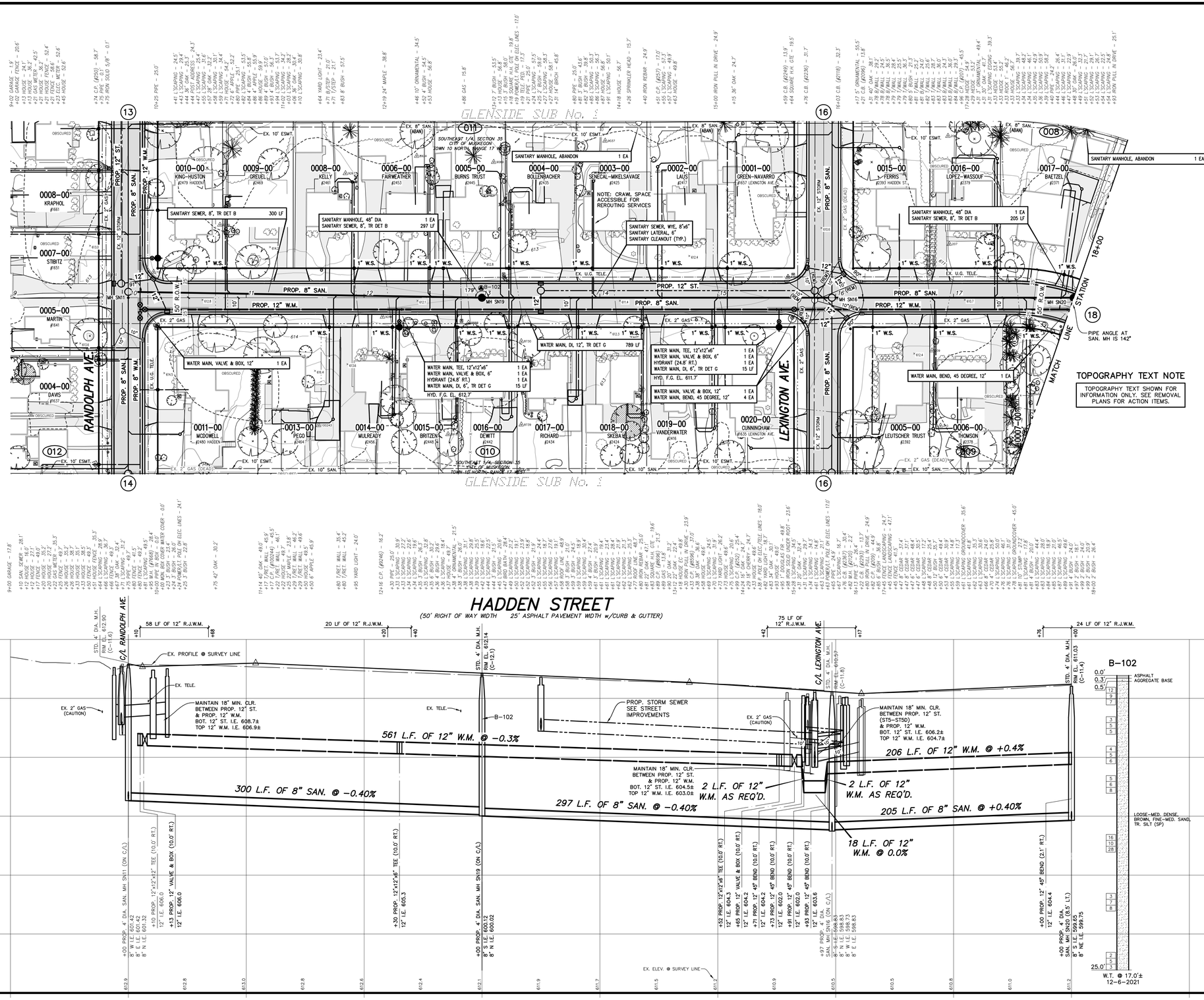
I:\CIVIL3D PROJECTS\2025\2250950_MUSKEGON_GLENSIDE\4_PROD\2250950_PLOPR UTIL LEXINGTON.DWG - ASMITH - May 21 2026 - 01:03pm - PreinNNewhof

B.M. EL. 614.24
RANDOLPH AVENUE & HADDEN STREET, 25'± N & 25'± E OF C/L "X", SET RR SPIKE IN SW SIDE OF P. POLE

B.M. EL. 612.89
HADDEN STREET & LEXINGTON AVENUE, 270'± S & 20'± W OF C/L "X", SET RR SPIKE IN EAST SIDE OF P. POLE (2.0' A/GROUND)

CONTROL POINT TABLE

POINT No.	NORTHING	EASTING	ELEVATION
4	628735.25	12612174.80	611.18
104	628735.25	12612174.80	611.18
105	628197.93	12612146.87	612.99
207	628873.22	12612152.84	611.16
209	628854.61	12612242.55	612.53
257	628626.48	12612170.58	611.73
602	628160.00	12612147.36	612.97
8696	628573.19	12612210.65	616.07
8730	628506.89	12612219.33	612.81
8888	628462.79	12612201.69	612.53
9246	628390.20	12612193.41	612.44
100003	628735.25	12612174.80	611.18
100244	628290.00	12612218.36	616.29



TOPOGRAPHY TEXT NOTE

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SANITARY LATERAL TOTALS (THIS SHEET)

SANITARY SEWER, WYE, 8"x6"	18 EA
SANITARY CLEANOUT	18 EA
SANITARY LATERAL, 6", PUBLIC	465 LF
SANITARY LATERAL, 6", PRIVATE	1730 LF
SANITARY LATERAL, CONNECT TO EX.	18 EA

WATER SERVICE TOTALS (THIS SHEET)

WATER SERVICE, CORPORATION STOP, 1 INCH	22 EA
WATER SERVICE, CURB STOP AND BOX, 1 INCH	22 EA
WATER SERVICE, 1 INCH	3000 LF
WATER SERVICE, RESTORATION, PRIVATE	22 EA

SANITARY SEWER CONSTRUCTION NOTES

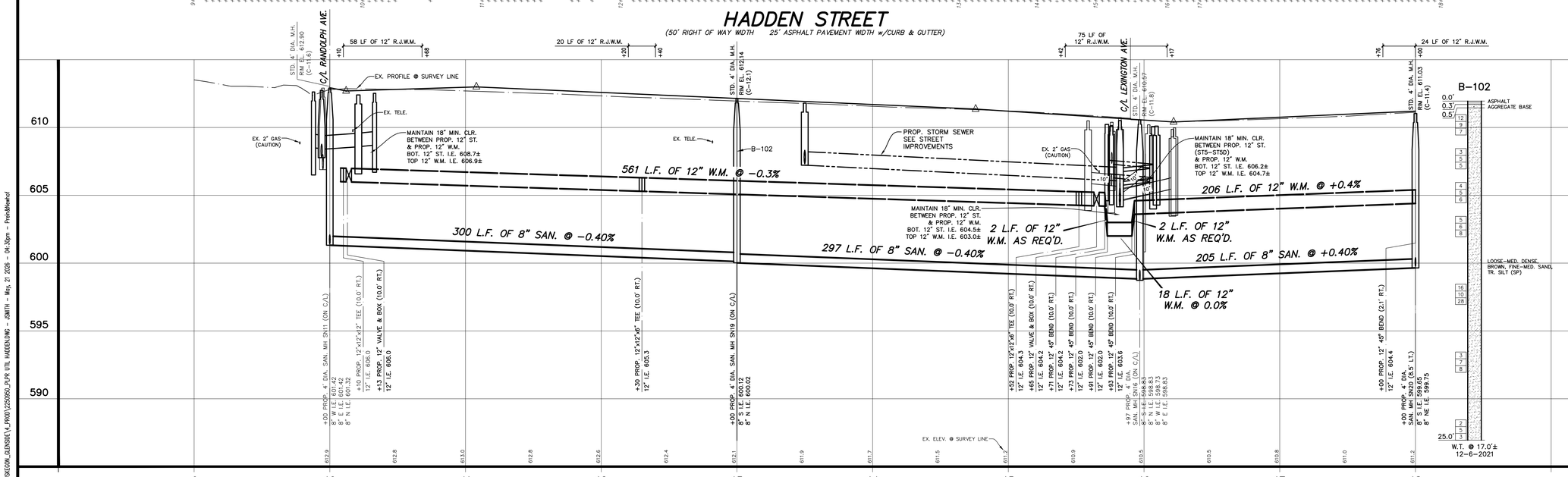
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2. ALIGNMENT AND LOCATION OF EXISTING SANITARY SEWER LATERALS ARE FROM AVAILABLE RECORDS AND LOCATING THE LATERALS WITH A SEWER LATERAL CAMERA AND LOCATOR IN 90%± OF RESIDENCES. DEPTH OF LATERALS ARE ESTIMATED TO BE APPROXIMATELY 7 FEET TO 10 FEET DEEP. CONTRACTOR TO FIELD VERIFY LOCATION OF SANITARY LATERALS PRIOR TO INSTALLATION OF WYES.
3. SANITARY SEWER LATERALS MUST BE REPLACED TO THE LATERAL NEAR THE HOUSE. FINAL ALIGNMENT OF LATERAL TO BE VERIFIED IN THE FIELD.
4. CONTRACTOR TO COORDINATE w/RESIDENTS FOR DETERMINING LOCATION OF CONNECTION TO EXISTING LATERALS. SEWER SERVICE IS CURRENTLY FROM THE SANITARY SEWER IN THE EASEMENT. PRIOR TO INSTALLATION, CONTRACTOR MUST VERIFY CONNECTION LOCATION AND DEPTH IN THE PRESENCE OF THE PROPERTY OWNER AND ENGINEER. CONNECTION TO EXISTING SANITARY SEWER MUST MATCH EX. PIPE SLOPE & ALIGNMENT.

WATER MAIN CONSTRUCTION NOTES

1. CONTRACTOR MUST PROVIDE A MINIMUM OF 18" VERTICAL CLEARANCE AND 10' HORIZONTAL CLEARANCE BETWEEN PROPOSED WATER MAIN, AND STORM AND SANITARY SEWERS.
2. USE HYDRANT EXTENSIONS OR VERTICAL BENDS ON HYDRANT LEADS TO ENSURE HYDRANT BREAKAWAY FLANGE IS 3"±/– FROM FINISHED GRADE. COST MUST BE INCLUDED IN THE HYDRANT PAY ITEM.
3. ALL HYDRANTS MUST BE RESTRAINED TO THE TEE.

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1. WATER SERVICES SHOWN ON THE PLANS ARE LOCATED BASED ON RECORDS AND VISUAL INSPECTION OF THE METER LOCATION INSIDE THE RESIDENCE. ACTUAL LOCATION MAY BE DIFFERENT THAN SHOWN. ALIGNMENT OF EXISTING WATER SERVICES FROM THE CURB STOP BOX TO THE HOUSE IS UNKNOWN AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO REPLACEMENT.
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3. CONTRACTOR TO COORDINATE WITH THE CITY FOR METER REMOVAL AND REINSTALLATION.



SCALES : 1" = 40' HORZ. (CONTOURS AT ONE FOOT INTERVALS)
1" = 4' VERT.

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NO.	REVISIONS	BY	DATE

DRAWN J.J.S.
DATE MAY '26
CHECKED M.R.H.
DATE MAY '26

Prein&Newhof
Engineers • Surveyors • Environmental • Laboratory

CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN

UTILITY IMPROVEMENTS

HADDEN STREET

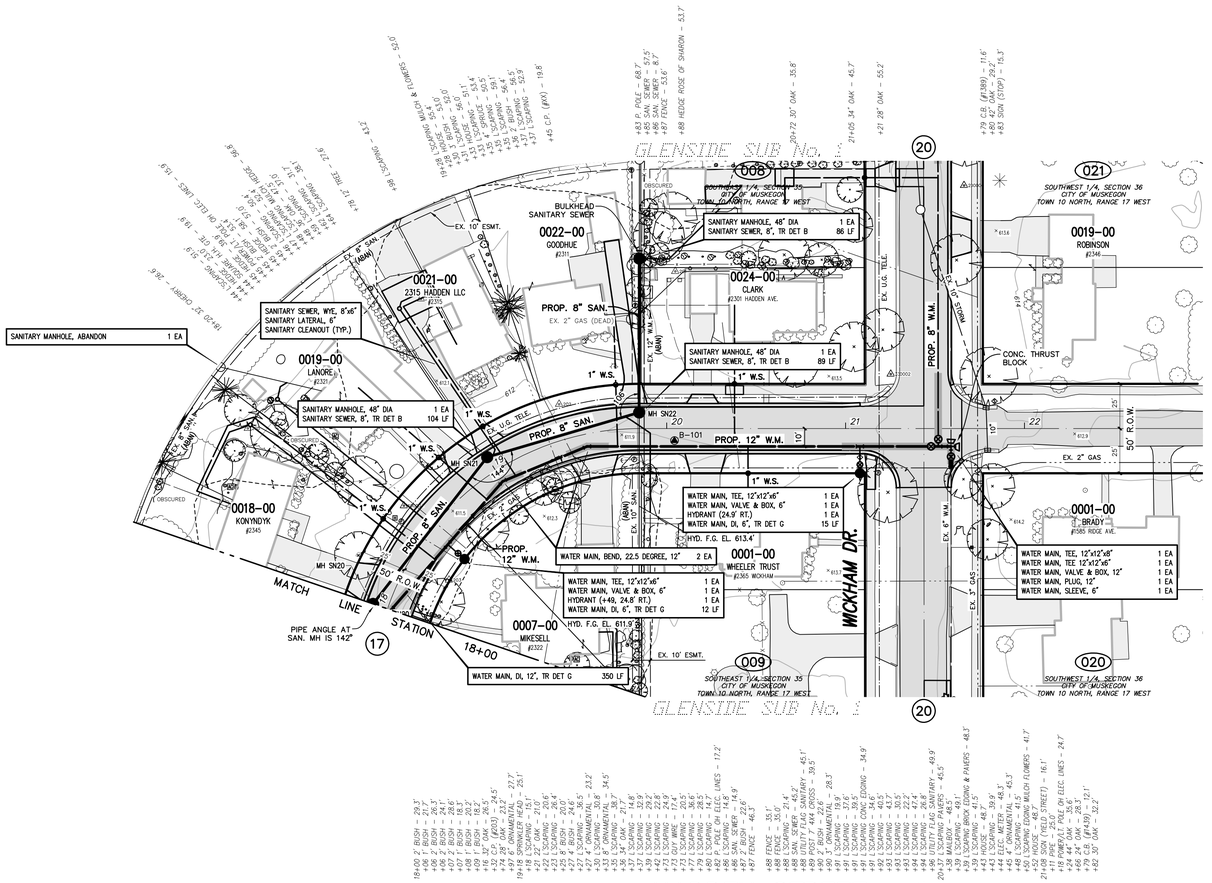
PROJECT NO. 2250950
SHEET NO. 17 OF 36

I:\DWG\30 PROJECTS\2025\2250950_MUSKEGON_GLENSIDE\4_PROD\2250950_PLPR UTIL HADDON.DWG – JSMITH – May. 21, 2026 – 04:30pm – PrintMeNewhof

B.M. EL. 613.23
HADDEN STREET & WICKHAM DRIVE, 190'± W & 50'± N OF C/L "X", HOUSE # 2311, TOP SE CORNER BOTTOM CONC. STEP

CONTROL POINT TABLE

POINT No.	NORTHING	EASTING	ELEVATION
3	629091.90	12612497.76	613.57
103	629091.90	12612497.76	613.57
107	629030.60	12612222.63	611.88
202	629083.40	12612311.83	612.00
203	628987.96	12612245.95	611.89
100002	629091.90	12612497.76	613.57
100007	629030.60	12612222.63	611.88



HADDEN STREET
(50' RIGHT OF WAY WIDTH
25' ASPHALT PAVEMENT
WIDTH w/CURB & GUTTER)

SAN. SEWER @ STA. 19+85
(LOOKING EAST)

TOPOGRAPHY TEXT NOTE

TOPOGRAPHY TEXT SHOWN FOR INFORMATION ONLY. SEE REMOVAL PLANS FOR ACTION ITEMS.

SANITARY LATERAL TOTALS (THIS SHEET)

SANITARY SEWER, WYE, 8"x6"	7 EA
SANITARY CLEANOUT	3 EA
SANITARY LATERAL, 6", PUBLIC	179 LF
SANITARY LATERAL, 6", PRIVATE	387 LF
SANITARY LATERAL, CONNECT TO EX.	7 EA

WATER SERVICE TOTALS (THIS SHEET)

WATER SERVICE, CORPORATION STOP, 1 INCH	8 EA
WATER SERVICE, CURB STOP AND BOX, 1 INCH	6 EA
WATER SERVICE, 1 INCH	713 LF
WATER SERVICE, RESTORATION, PRIVATE	6 EA

SANITARY SEWER CONSTRUCTION NOTES

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1" = 4' VERT.

NO.	REVISIONS	BY	DATE

DRAWN J.J.S.
DATE MAY '26
CHECKED M.R.H.
DATE MAY '26

Prein&Newhof
Engineers • Surveyors • Environmental • Laboratory

CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN
UTILITY IMPROVEMENTS
HADDEN STREET

PROJECT NO. 2250950
SHEET NO. 18 OF 36

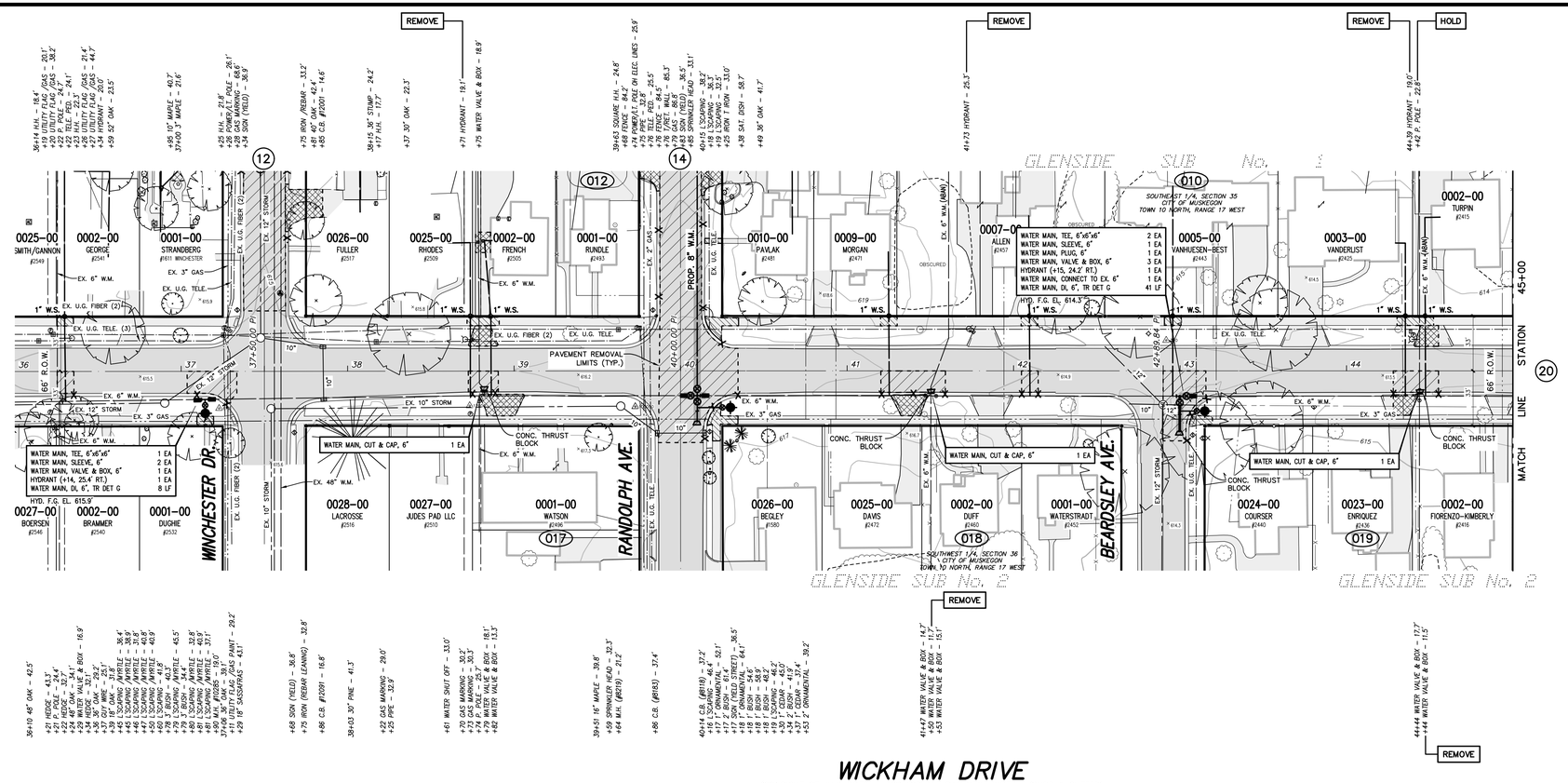
I:\CIVIL3D PROJECTS\2025\2250950_MUSKEGON_GLENSIDE\4_PROD\2250950_PLPR UTIL HADDEN.DWG - JSMITH - May 21, 2026 - 02:25pm - PrintMinehof

B.M. EL. 616.26
WINCHESTER DRIVE & WICKHAM STREET, SW CORNER OF INTERSECTION, FOUND R.R. SPIKE N SIDE P. POLE (0.8' A/GROUND)

B.M. EL. 613.32
WICKHAM DRIVE & RANDOLPH AVENUE, 170'± N & 25'± W OF C/L "X", TOP OF NW HYDRANT BOLT (0.8' A/GROUND)

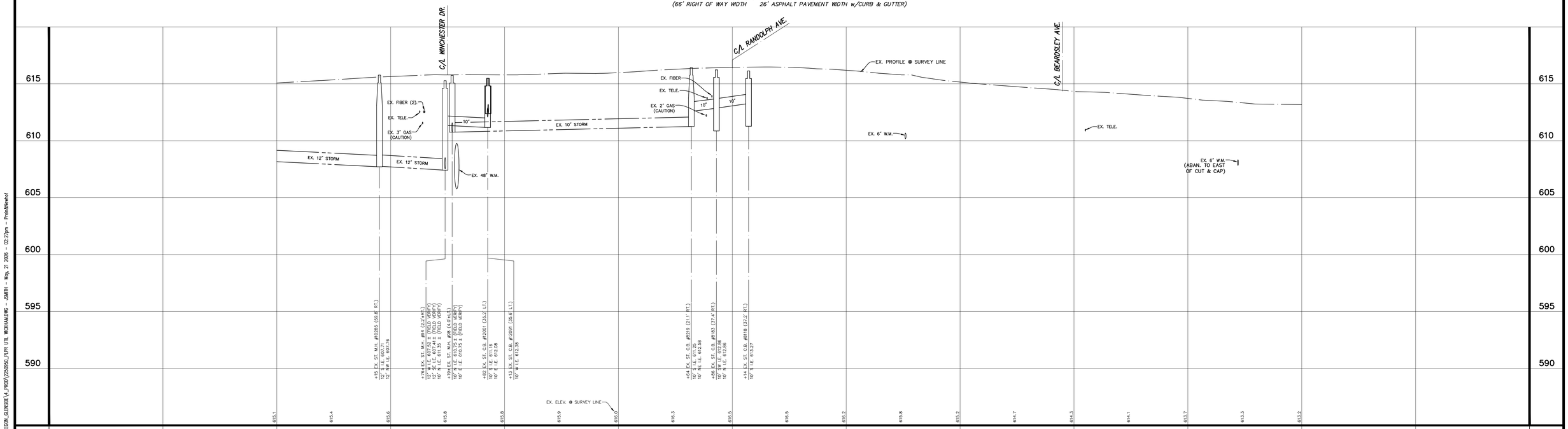
CONTROL POINT TABLE

POINT No.	NORTHING	EASTING	ELEVATION
101	628133.78	12612495.62	616.55
390	628454.11	12612469.85	614.67
612	627884.02	12612485.72	616.14
12000	628034.45	12612490.70	616.47
100000	628133.78	12612495.62	616.55



WICKHAM DRIVE

(66' RIGHT OF WAY WIDTH 26' ASPHALT PAVEMENT WIDTH w/CURB & GUTTER)



WATER SERVICE TOTALS (THIS SHEET)

WATER SERVICE, CORPORATION STOP, 1 INCH	8 EA
WATER SERVICE, CURB STOP AND BOX, 1 INCH	8 EA
WATER SERVICE, 1 INCH	965 LF
WATER SERVICE, RESTORATION, PRIVATE	8 EA

REMOVAL LEGEND

- REMOVE HMA SURFACE, PAID FOR AS: HMA SURFACE REM
- REMOVE CONCRETE SIDEWALK, PAID FOR AS: SIDEWALK, REM
- REMOVE CONCRETE PAVEMENT OR DRIVEWAY, PAID FOR AS: PAVT, REM
- REMOVE CURB, GUTTER OR CURB AND GUTTER, PAID FOR AS: CURB AND GUTTER, REM
- TREE REMOVAL

WATER MAIN CONSTRUCTION NOTES

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3. ALL HYDRANTS MUST BE RESTRAINED TO THE TEE.
4. HYDRANTS TO BE ABANDONED ON WICKHAM DRIVE MUST BE CUT OUT AND REMOVED TO A MINIMUM OF 2 FEET BELOW GRADE. HYDRANT RISERS MUST BE GROUTED WITH FLOWABLE FILL.

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DATE MAY '26
CHECKED M.R.H.
DATE MAY '26

Prein&Newhof
Engineers • Surveyors • Environmental • Laboratory

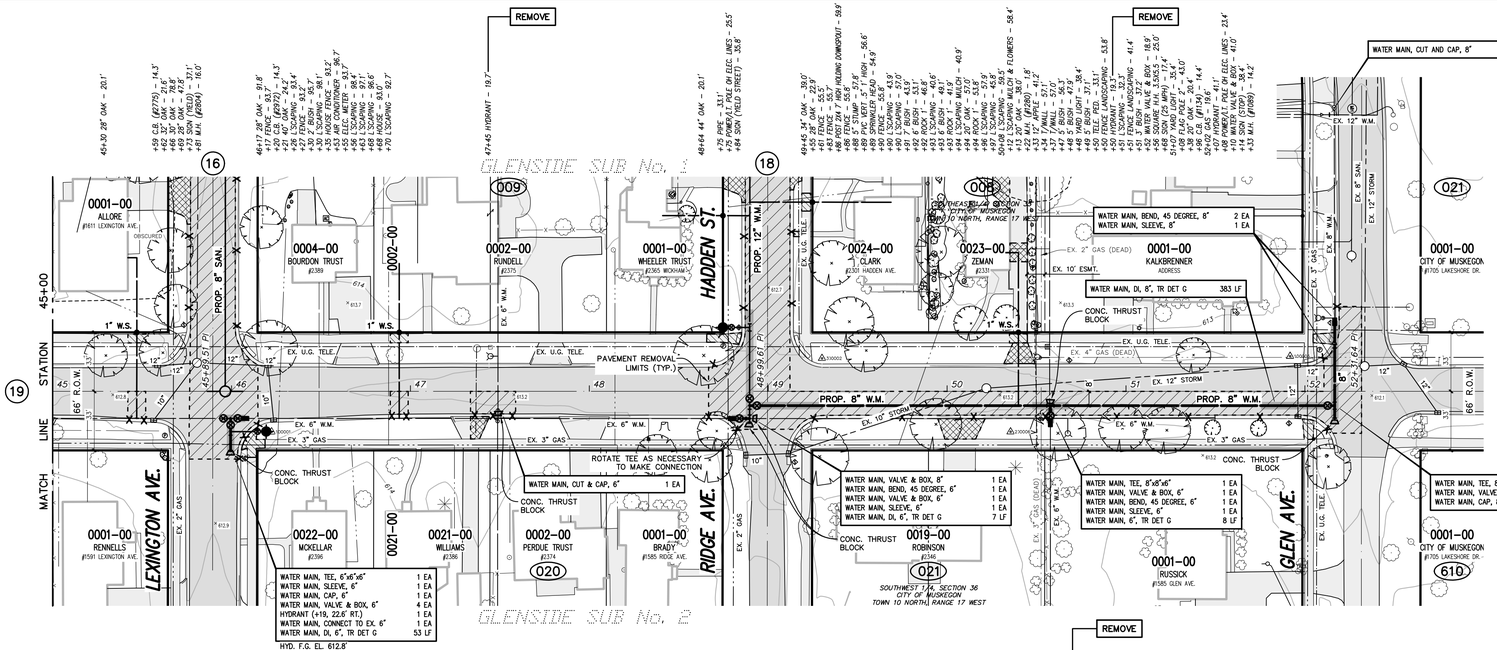
CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN
UTILITY IMPROVEMENTS
WICKHAM DRIVE

PROJECT NO. 2250950
SHEET NO. 19 OF 36

T:\CIVIL3D PROJECTS\2025\2250950_MUSKEGON_GLENSIDE\4_PROD\2250950_PLPR UTIL WICKHAM.DWG - JSMITH - May. 21, 2026 - 02:27pm - PrintAllNewhof

B.M. EL. 613.32
WICKHAM DRIVE & GLEN AVENUE, 70'± S & 50'± W OF C/L 'X', HOUSE #2321, TOP NE CORNER OF BOTTOM CONC. STEP (0.4' A/WALK)

CONTROL POINT TABLE			
POINT No.	NORTHING	EASTING	ELEVATION
1	629353.33	12612508.09	612.75
2	629195.40	12612543.42	613.41
3	629091.90	12612497.76	613.57
102	628782.76	12612525.31	613.00
103	629091.90	12612497.76	613.57
106	629353.33	12612508.09	612.75
200	629195.40	12612543.42	613.41
100001	628782.76	12612525.31	613.00
100002	629091.90	12612497.76	613.57
100005	629353.33	12612508.09	612.75
100006	629195.40	12612543.42	613.41

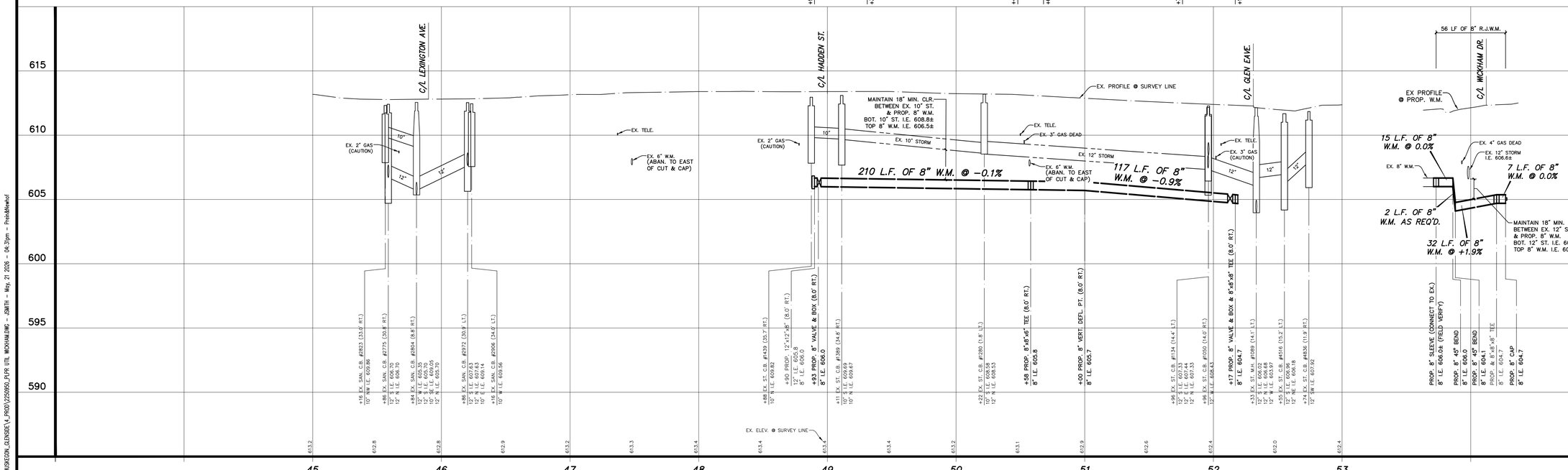


WICKHAM DRIVE

(66' RIGHT OF WAY WIDTH 26' ASPHALT PAVEMENT WIDTH w/CURB & GUTTER)

41 LF OF 8" R.J.W.M. | 20 LF OF 8" R.J.W.M. | 41 LF OF 8" R.J.W.M. | 56 LF OF 8" R.J.W.M.

W.M. CONNECTION @ GLEN AVE.
(LOOKING EAST)



REMOVAL LEGEND

- REMOVE HMA SURFACE, PAID FOR AS: HMA SURFACE REM
- REMOVE CONCRETE SIDEWALK PAID FOR AS: SIDEWALK, REM
- REMOVE CONCRETE PAVEMENT OR DRIVEWAY, PAID FOR AS: PAVT, REM
- REMOVE CURB, GUTTER OR CURB AND GUTTER, PAID FOR AS: CURB AND GUTTER, REM
- TREE REMOVAL

WATER SERVICE TOTALS (THIS SHEET)

WATER SERVICE, CORPORATION STOP, 1 INCH	3 EA
WATER SERVICE, CURB STOP AND BOX, 1 INCH	3 EA
WATER SERVICE, 1 INCH	333 LF
WATER SERVICE, RESTORATION, PRIVATE	3 EA

WATER MAIN CONSTRUCTION NOTES

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CHECKED M.R.H.
DATE MAY '26

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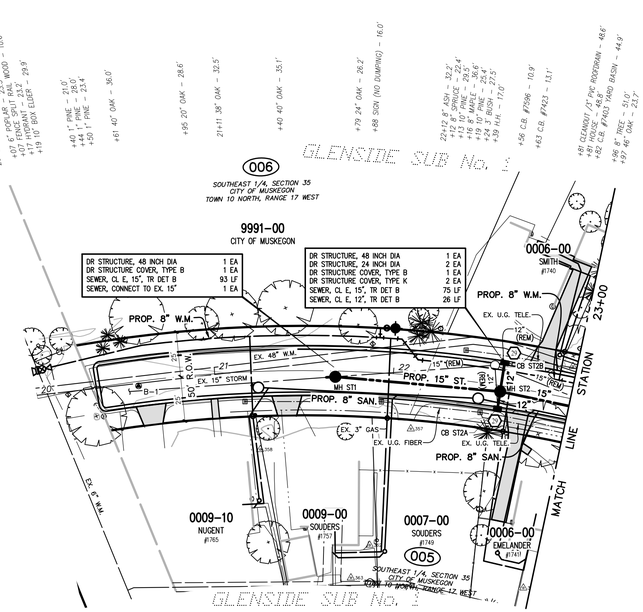
CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN
UTILITY IMPROVEMENTS
WICKHAM DRIVE

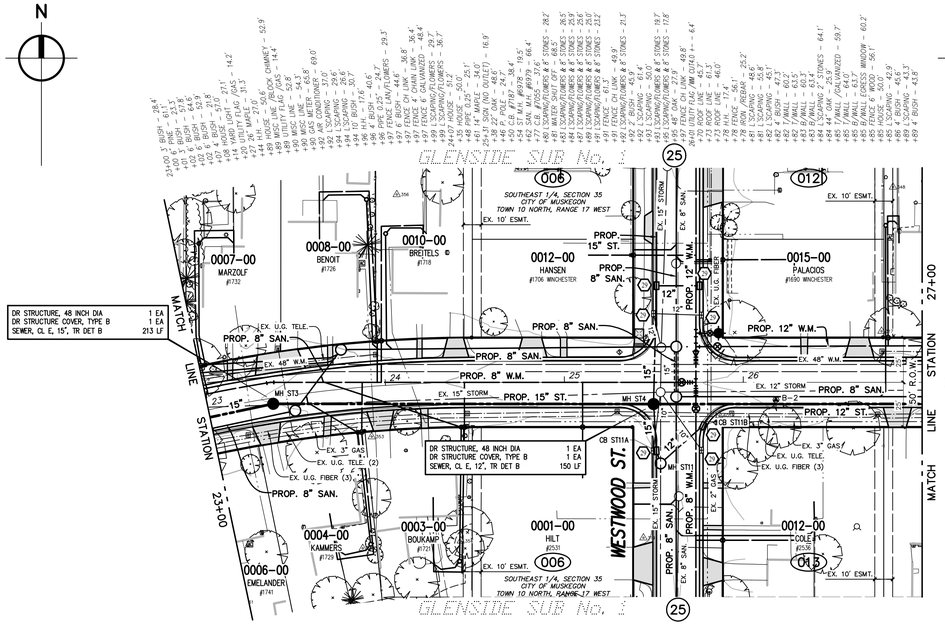
PROJECT NO. 2250950
SHEET NO. 20 OF 36

T:\CIVIL3D PROJECTS\2025\2250950_MUSKEGON_GLENSIDE\4_PROD\2250950_PLPR UTIL WICKHAM.DWG - JSMITH - May 21 2026 - 04:31pm - PrintAllViewsInd

B.M. EL. 612.85
WINCHESTER DR. & WESTWOOD ST., NW CORNER OF INTERSECTION, SET 60D NAIL IN NE SIDE P. POLE (2.0' A/GROUND)

CONTROL POINT TABLE			
POINT No.	NORTHING	EASTING	ELEVATION
317	627963.50	12611947.40	612.79
352	627902.86	12611711.38	611.11
353	627917.10	12611660.13	610.30
357	627887.85	12611492.65	609.26
358	627846.44	12611418.46	610.19
605	627920.38	12611854.76	611.35
609	627953.33	12611564.35	609.14





TOPOGRAPHY TEXT NOTE

TOPOGRAPHY TEXT SHOWN FOR INFORMATION ONLY. SEE REMOVAL PLANS FOR ACTION ITEMS.

PROPOSED PAVEMENT LEGEND

PROPOSED DRIVEWAY, NONREINF CONC, 6/8 INCH OR SIDEWALK, CONC, 4/6/8 INCH

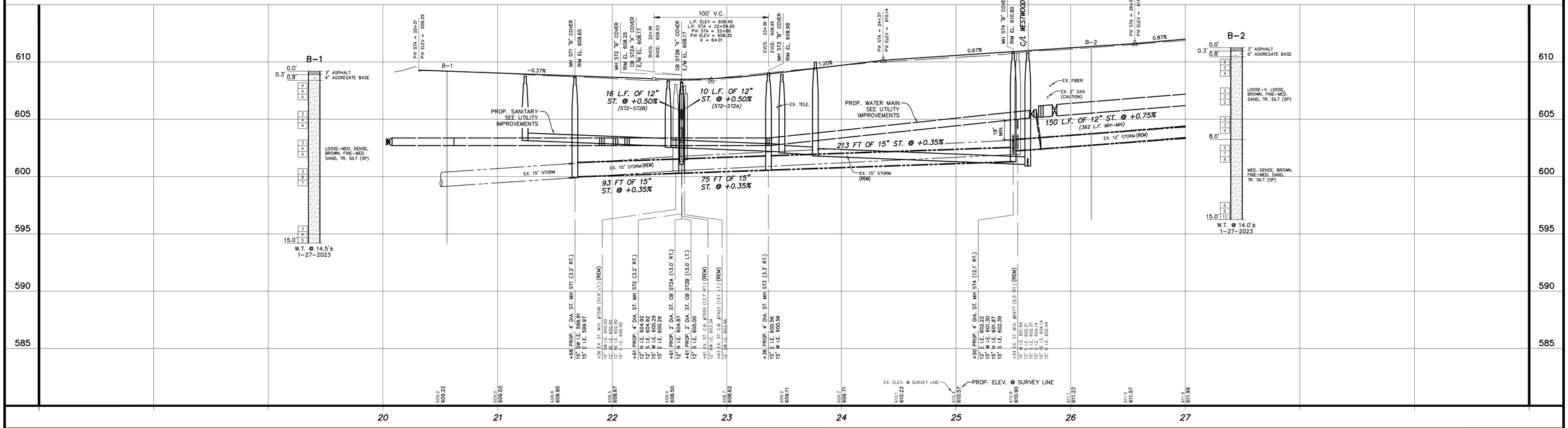
NOTES: PROPOSED PAVEMENT ON STREET & INTERSECTIONS NOT SHADED FOR CLARITY.

SOIL EROSION CONTROL LEGEND

PROPOSED EROSION CONTROL INLET PROTECTION FABRIC DROP

WINCHESTER DRIVE

(50' RIGHT OF WAY WIDTH
25' WIDE ASPHALT PAVEMENT w/CURB & GUTTER)



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CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN
STREET IMPROVEMENTS
WINCHESTER DRIVE

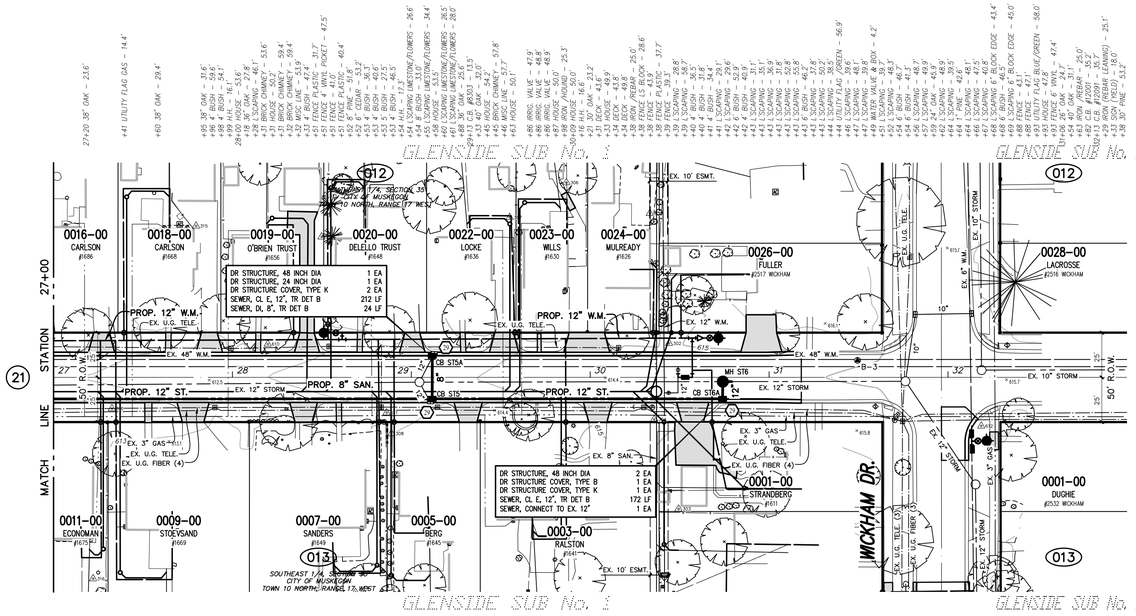
PROJECT NO. 2250950
SHEET NO. 21 OF 36

I:\CIVIL\3) PROJECTS\2025\2250950_MUSKEGON_GLENSIDE\4_PROD\2250950_PLAN STRT WINCHESTER.DWG - JSMITH - May, 21 2026 - 02:39pm - PrintMinehof

B.M. EL. 616.26
WINCHESTER DRIVE & WICKHAM STREET, SW CORNER OF INTERSECTION, FOUND R.R. SPIKE N SIDE P. POLE (0.8' A/GROUND)

CONTROL POINT TABLE

POINT No.	NORTHING	EASTING	ELEVATION
302	627937.77	12612313.40	614.91
304	627895.66	12612303.22	614.65
308	627894.25	12612156.17	613.91
309	627974.34	12612068.45	613.73
310	627915.05	12612000.71	612.51
317	627963.50	12611947.40	612.79
610	627947.23	12612089.28	613.30
611	627905.96	12612154.01	613.78



TOPOGRAPHY TEXT NOTE

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PROPOSED PAVEMENT LEGEND

PROPOSED DRIVEWAY, NONREINF CONC, 6/8 INCH OR SIDEWALK, CONC, 4/6/8 INCH

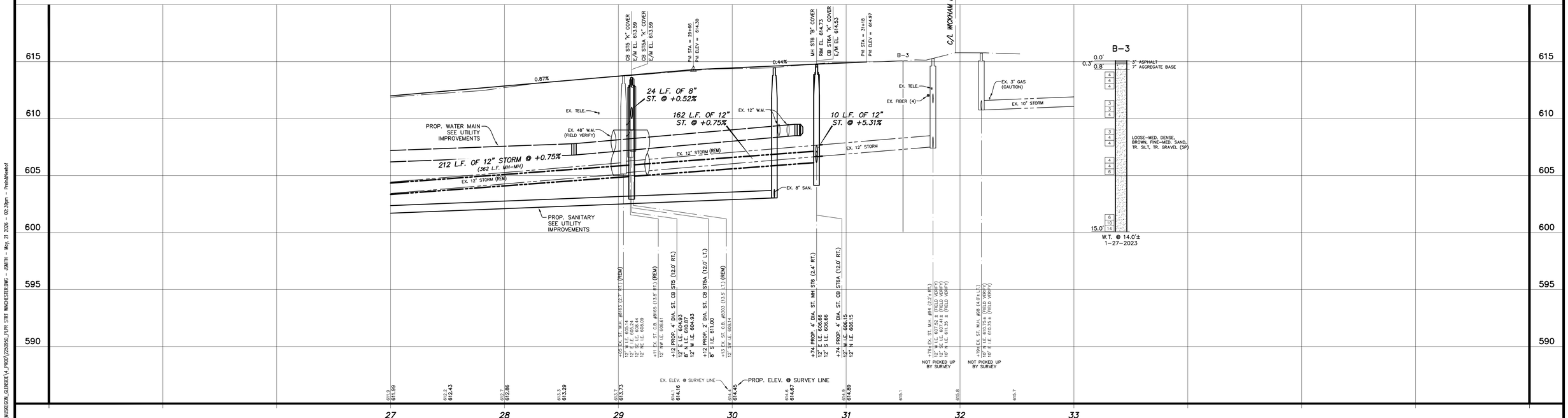
NOTES: PROPOSED PAVEMENT ON STREET & INTERSECTIONS NOT SHADED FOR CLARITY.

SOIL EROSION CONTROL LEGEND

PROPOSED EROSION CONTROL INLET PROTECTION FABRIC DROP

WINCHESTER DRIVE

(50' RIGHT OF WAY WIDTH
25' WIDE ASPHALT PAVEMENT w/CURB & GUTTER)



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SCALES : 1" = 40' HORZ. (CONTOURS AT ONE FOOT INTERVALS)
1" = 4' VERT.

NO.	REVISIONS	BY	DATE

DRAWN J.J.S.
DATE MAY '26
CHECKED M.R.H.
DATE MAY '26

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CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN

STREET IMPROVEMENTS

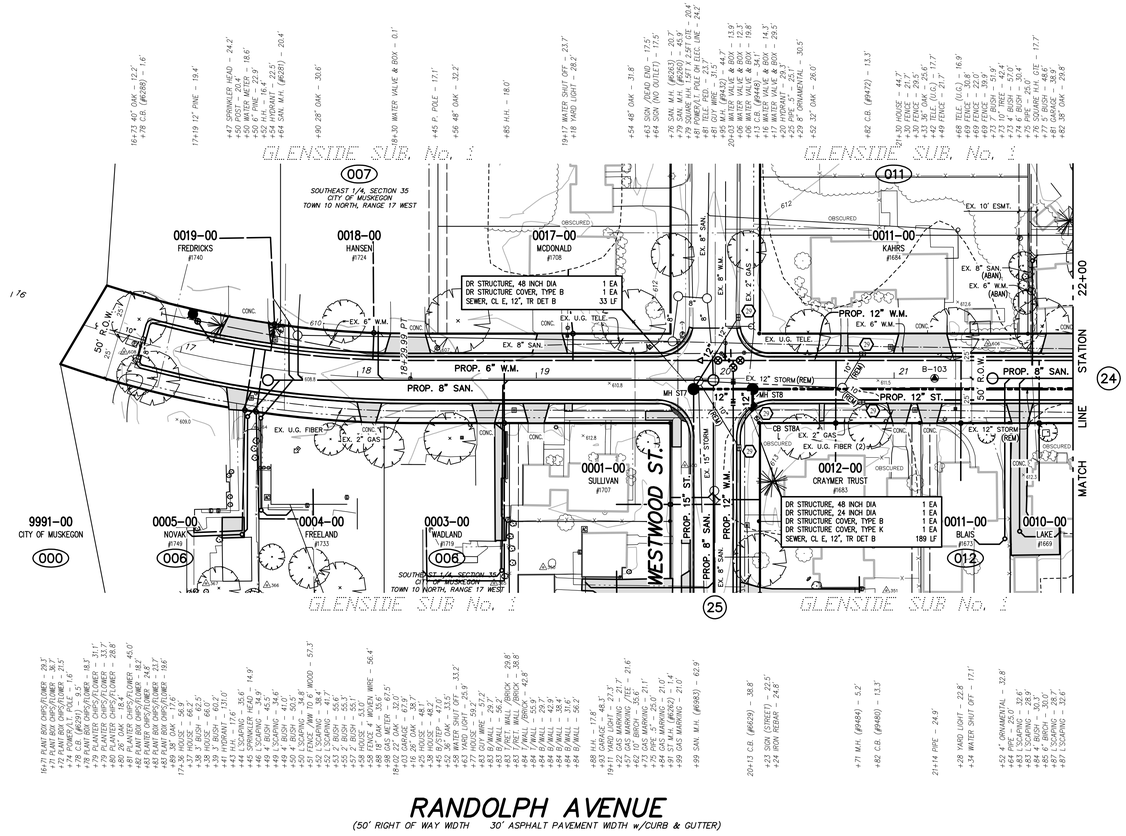
WINCHESTER DRIVE

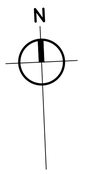
PROJECT NO. 2250950
SHEET NO. 22 OF 36

I:\CIVIL3D PROJECTS\2025\2250950_MUSKEGON_GLENSIDE\4_PROD\2250950_PLPR STRT IMPROVEMENTS.DWG - JSMITH - May, 21 2026 - 02:39pm - PrintMinehof

B.M. EL. 613.30
RANDOLPH AVENUE & WESTWOOD STREET, 25'± N & 20'± W OF C/L "X", SET LARGE PK NAIL EAST SIDE OF L. POLE (2.0' A/GROUND)

CONTROL POINT TABLE			
POINT No.	NORTHING	EASTING	ELEVATION
300	628141.77	12611824.40	611.67
364	628173.66	12611585.40	609.49
606	628202.32	12611996.61	612.04
607	628212.37	12611889.15	609.85
608	628218.90	12611514.09	608.25





PROPOSED PAVEMENT LEGEND

PROPOSED DRIVEWAY, NONREINF CONC, 6/8 INCH OR SIDEWALK, CONC, 4/6/8 INCH

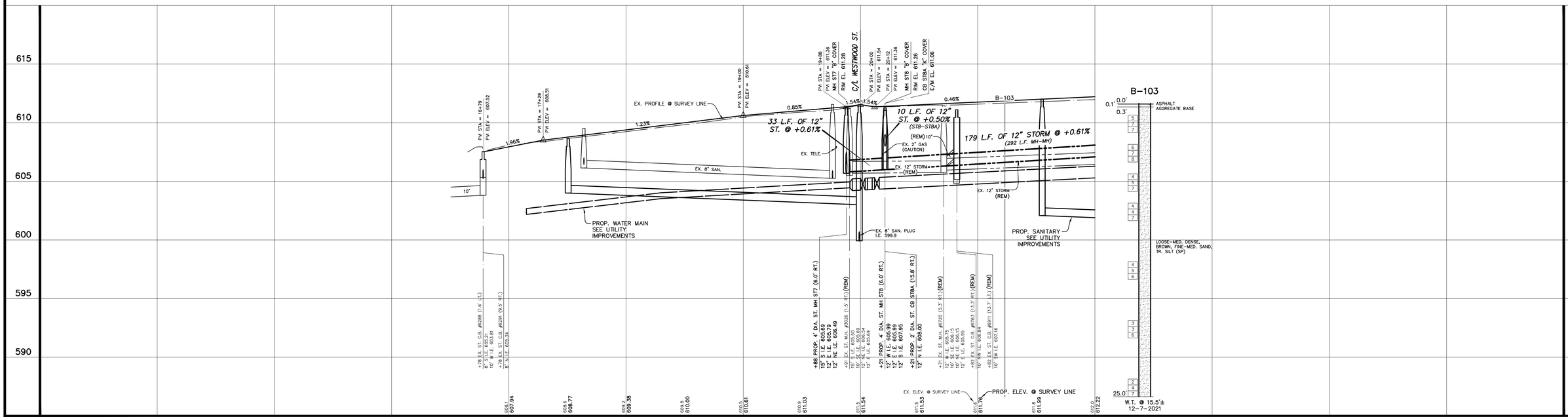
NOTES: PROPOSED PAVEMENT ON STREET & INTERSECTIONS NOT SHADED FOR CLARITY.

SOIL EROSION CONTROL LEGEND

209 PROPOSED EROSION CONTROL INLET PROTECTION FABRIC DROP

RANDOLPH AVENUE

(50' RIGHT OF WAY WIDTH 30' ASPHALT PAVEMENT WIDTH w/CURB & GUTTER)



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SCALES : 1" = 40' HORZ. (CONTOURS AT ONE FOOT INTERVALS)
1" = 4' VERT.

NO.	REVISIONS	BY	DATE

DRAWN J.J.S.
DATE MAY '26
CHECKED M.R.H.
DATE MAY '26

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MUSKEGON COUNTY, MICHIGAN
STREET IMPROVEMENTS
RANDOLPH AVENUE

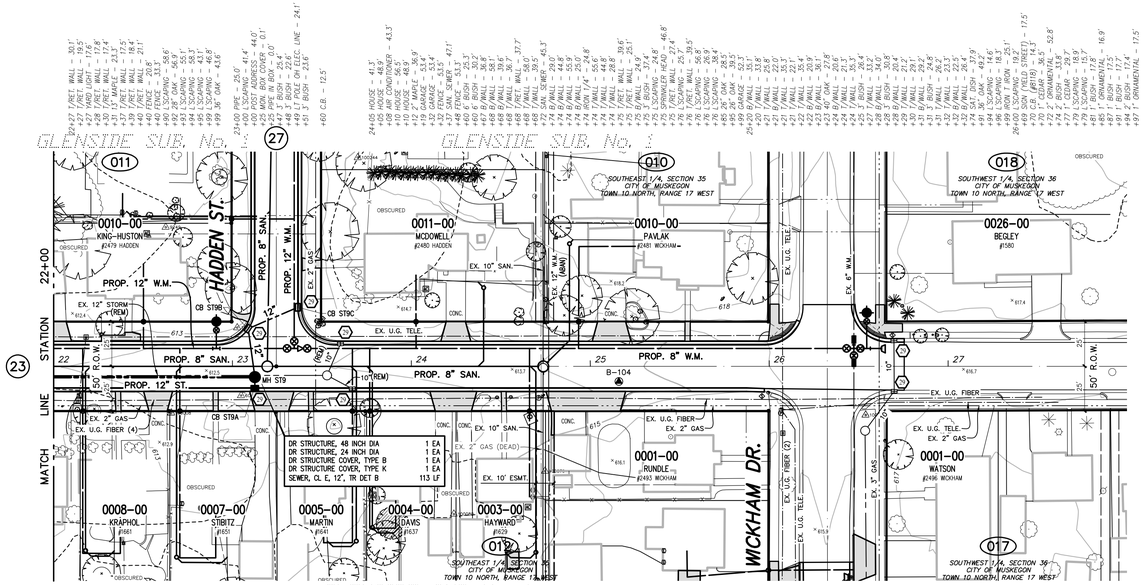
PROJECT NO. 2250950
SHEET NO. 23 OF 36

I:\CIVIL3D PROJECTS\2025\2250950_MUSKEGON_GLENSIDE\4_PROD\2250950_PUPR STRT RANDOLPH.DWG - GSMITH - May. 21, 2026 - 03:14pm - PreinANewhof

B.M. EL. 614.24
RANDOLPH AVENUE & HADDEN STREET, 25'± N & 25'± E OF C/L "X", SET RR SPIKE IN SW SIDE OF P. POLE

CONTROL POINT TABLE

POINT No.	NORTHING	EASTING	ELEVATION
101	628133.78	12612495.62	616.55
105	628197.93	12612146.87	612.99
250	628151.95	12612107.92	612.77
602	628160.00	12612147.36	612.97
100000	628133.78	12612495.62	616.55
100008	628151.95	12612107.92	612.77
100079	628110.33	12612315.23	614.56



PROPOSED PAVEMENT LEGEND

PROPOSED DRIVEWAY, NONREINF CONC, 6/8 INCH OR SIDEWALK, CONC, 4/6/8 INCH

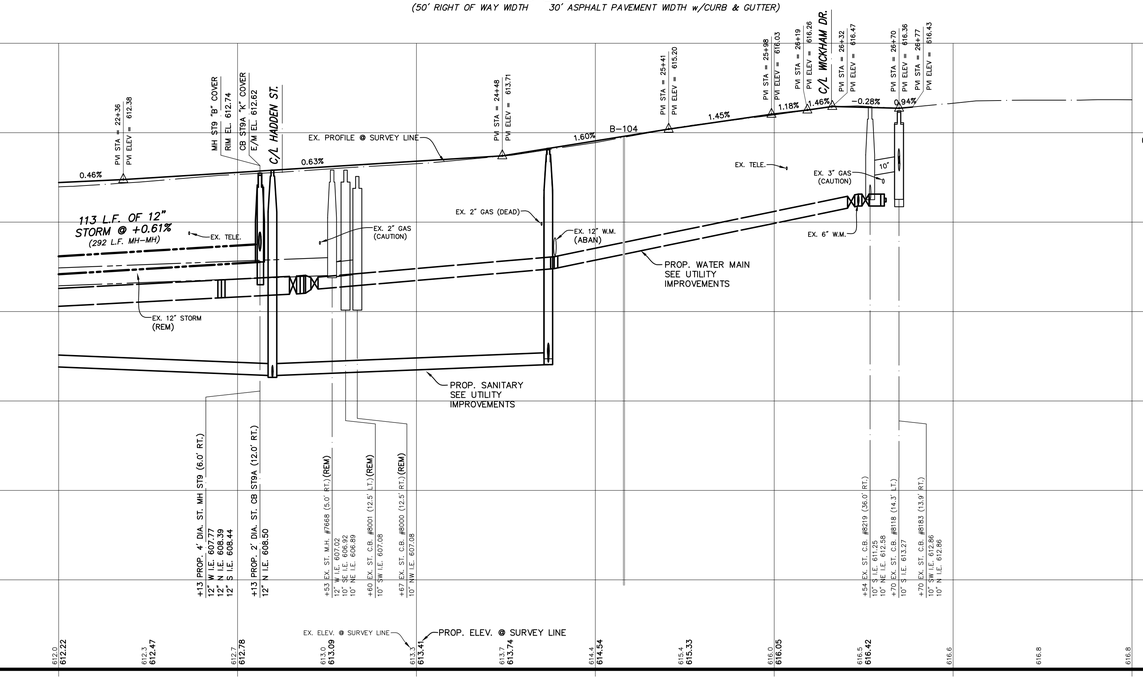
NOTES: PROPOSED PAVEMENT ON STREET & INTERSECTIONS NOT SHADED FOR CLARITY.

SOIL EROSION CONTROL LEGEND

20 PROPOSED EROSION CONTROL INLET PROTECTION FABRIC DROP

RANDOLPH AVENUE

(50' RIGHT OF WAY WIDTH 30' ASPHALT PAVEMENT WIDTH w/CURB & GUTTER)



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SCALES : 1" = 40' HORZ. (CONTOURS AT ONE FOOT INTERVALS)
1" = 4' VERT.

NO.	REVISIONS	BY	DATE

DRAWN J.J.S.
DATE MAY '26
CHECKED M.R.H.
DATE MAY '26

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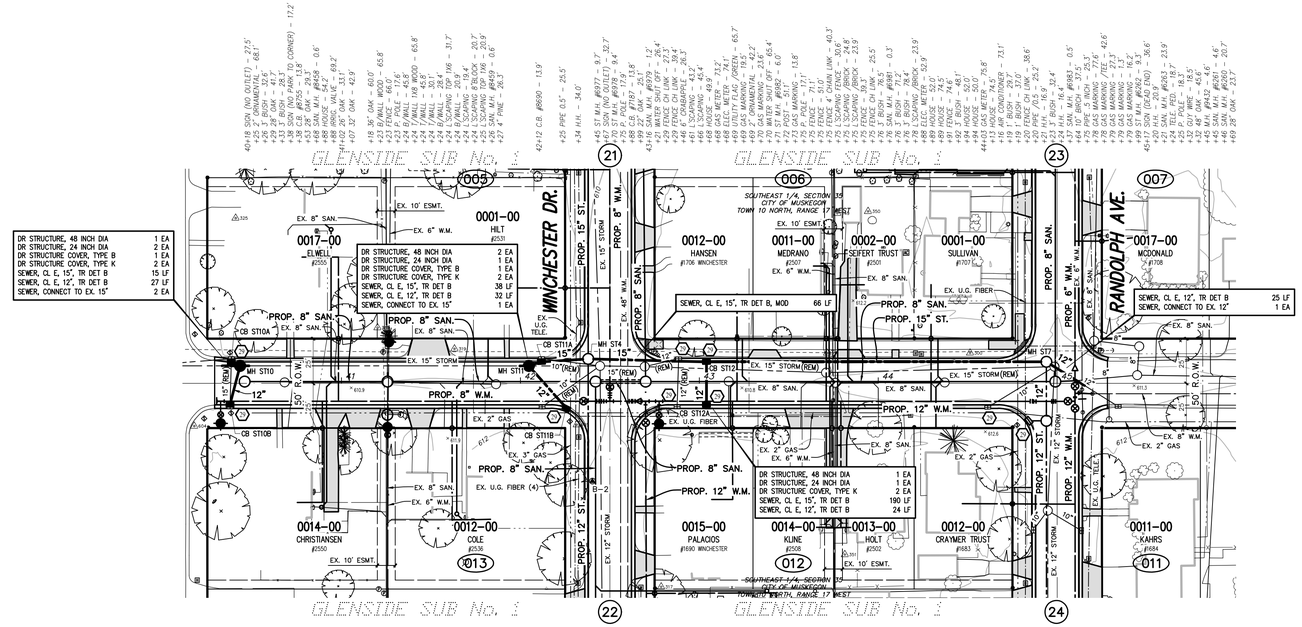
CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN
STREET IMPROVEMENTS
RANDOLPH AVENUE

PROJECT NO. 2250950
SHEET NO. 24 OF 36

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B.M. EL. 612.85
WINCHESTER DR. & WESTWOOD ST., NW CORNER OF INTERSECTION, SET 60D NAIL IN NE SIDE P. POLE (2.0' A/GROUND)

CONTROL POINT TABLE			
POINT No.	NORTHING	EASTING	ELEVATION
300	628141.77	12611824.40	611.87
318	628061.95	12611820.92	611.16
319	627853.95	12611809.40	611.46
331	627811.53	12611795.69	611.12
605	627920.38	12611854.76	611.35



TOPOGRAPHY TEXT NOTE

TOPOGRAPHY TEXT SHOWN FOR INFORMATION ONLY. SEE REMOVAL PLANS FOR ACTION ITEMS.

PROPOSED PAVEMENT LEGEND

PROPOSED DRIVEWAY, NONREINF CONC, 6/8 INCH OR SIDEWALK, CONC, 4/6/8 INCH

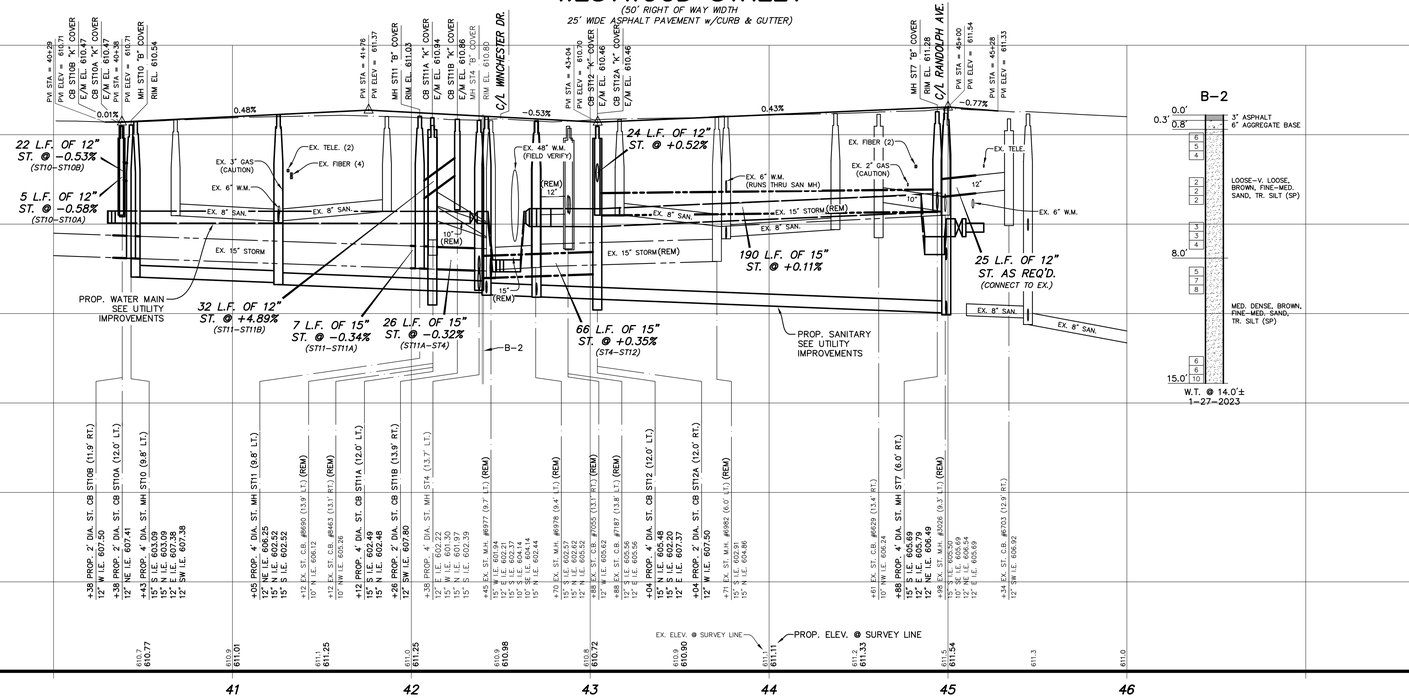
NOTES: PROPOSED PAVEMENT ON STREET & INTERSECTIONS NOT SHADED FOR CLARITY.

SOIL EROSION CONTROL LEGEND

PROPOSED EROSION CONTROL INLET PROTECTION FABRIC DROP

WESTWOOD STREET

(50' RIGHT OF WAY WIDTH
25' WIDE ASPHALT PAVEMENT w/CURB & GUTTER)



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SCALES : 1" = 40' HORZ. (CONTOURS AT ONE FOOT INTERVALS)
1" = 4' VERT.

NO.	REVISIONS	BY	DATE

DRAWN J.J.S.
DATE MAY '26
CHECKED M.R.H.
DATE MAY '26

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CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN
STREET IMPROVEMENTS
WESTWOOD STREET

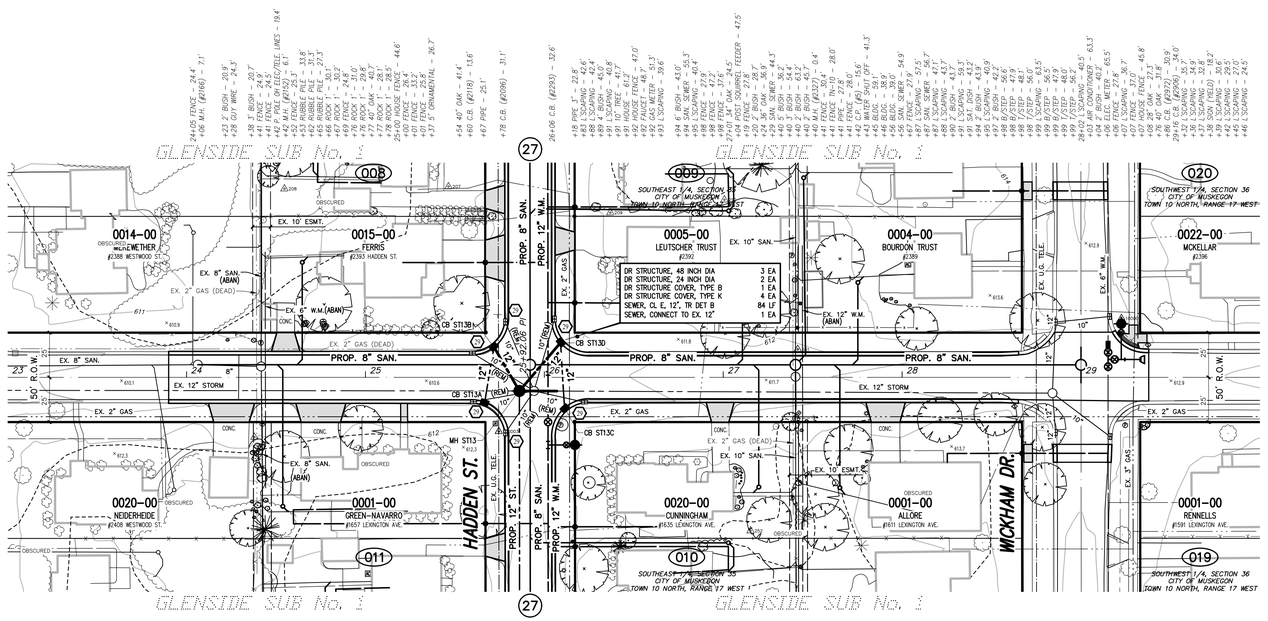
PROJECT NO. 2250950
SHEET NO. 25 OF 36

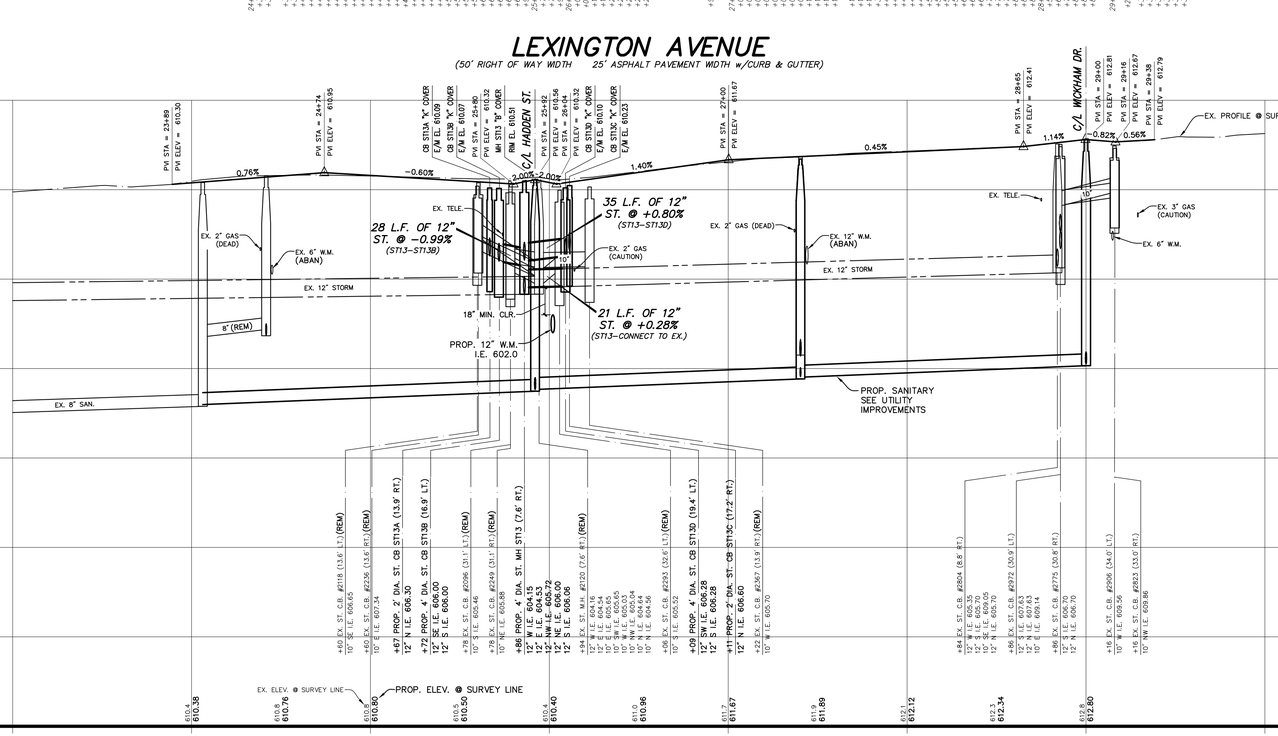
I:\CIVIL3D PROJECTS\2025\2250950_MUSKEGON_GLENSIDE\4_PROD\2250950_PLAN STRT WESTWOOD.DWG - GSMITH - May. 21, 2026 - 03:05pm - PreinANewhof

B.M. EL. 613.13
LEXINGTON AVENUE & HADDEN STREET, 150'± E & 20'± S OF C/L "X", SET RR SPIKE IN NORTH SIDE OF P. POLE (0.8' A/GROUND)

CONTROL POINT TABLE

POINT No.	NORTHING	EASTING	ELEVATION
4	628735.25	12612174.80	611.18
5	628773.58	12612343.78	611.95
102	628782.76	12612525.31	613.00
104	628735.25	12612174.80	611.18
251	628773.58	12612343.78	611.95
256	628738.19	12612038.18	615.93
100001	628782.76	12612525.31	613.00
100003	628735.25	12612174.80	611.18





TOPOGRAPHY TEXT NOTE

TOPOGRAPHY TEXT SHOWN FOR INFORMATION ONLY. SEE REMOVAL PLANS FOR ACTION ITEMS.

PROPOSED PAVEMENT LEGEND

PROPOSED DRIVEWAY, NONREINF CONC, 6/8 INCH OR SIDEWALK, CONC, 4/6/8 INCH

NOTES: PROPOSED PAVEMENT ON STREET & INTERSECTIONS NOT SHADED FOR CLARITY.

SOIL EROSION CONTROL LEGEND

PROPOSED EROSION CONTROL INLET PROTECTION FABRIC DROP

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0' 40' 80' 120'

SCALES : 1" = 40' HORZ. (CONTOURS AT ONE FOOT INTERVALS)
1" = 4' VERT.

NO.	REVISIONS	BY	DATE

DRAWN J.J.S.
DATE MAY '26
CHECKED M.R.H.
DATE MAY '26

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MUSKEGON COUNTY, MICHIGAN

STREET IMPROVEMENTS

LEXINGTON AVENUE

PROJECT NO. 2250950
SHEET NO. 26 OF 36

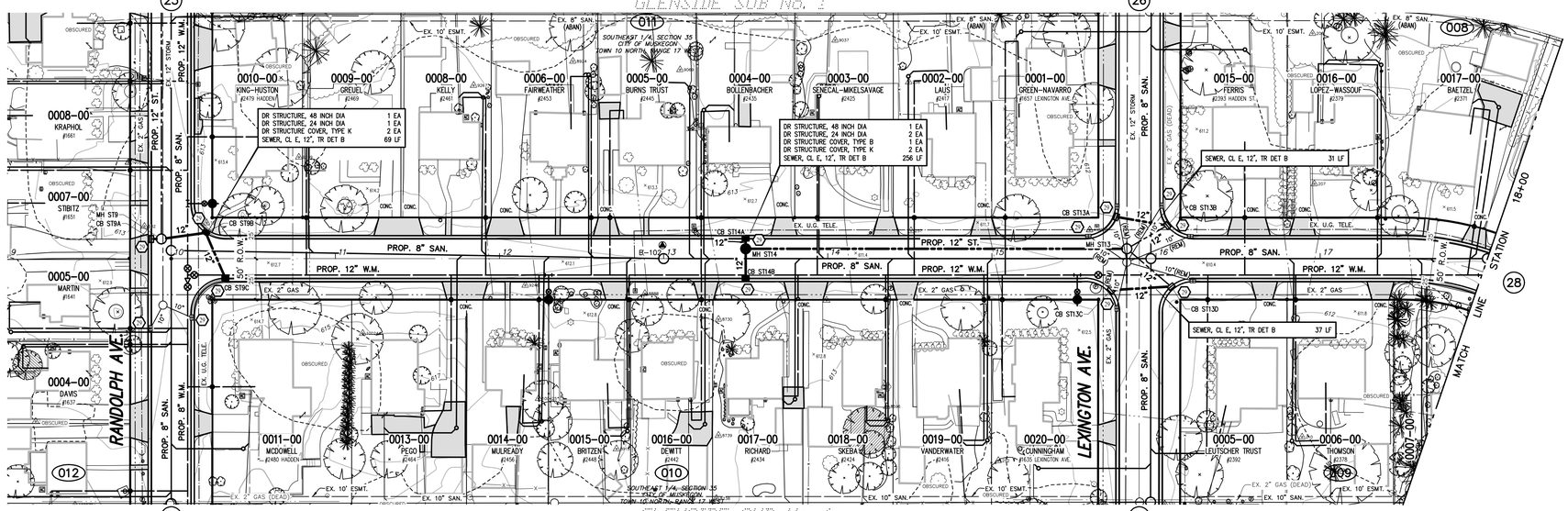
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B.M. EL. 614.24
RANDOLPH AVENUE & HADDEN STREET, 25'± N & 25'± E OF C/L "X", SET RR SPIKE IN SW SIDE OF P. POLE

B.M. EL. 612.89
HADDEN STREET & LEXINGTON AVENUE, 270'± S & 20'± W OF C/L "X", SET RR SPIKE IN EAST SIDE OF P. POLE (2.0' A/GROUND)

CONTROL POINT TABLE

POINT No.	NORTHING	EASTING	ELEVATION
4	628735.25	12612174.80	611.18
104	628735.25	12612174.80	611.18
105	628197.93	12612146.87	612.99
207	628873.22	12612152.84	611.16
209	628854.61	12612242.55	612.53
257	628626.48	12612170.58	611.73
602	628160.00	12612147.36	612.97
8696	628573.19	12612210.65	616.07
8730	628506.89	12612219.33	612.81
8888	628462.79	12612201.69	612.53
9246	628390.20	12612193.41	612.44
100003	628735.25	12612174.80	611.18
100244	628290.00	12612218.36	616.29



TOPOGRAPHY TEXT NOTE

TOPOGRAPHY TEXT SHOWN FOR INFORMATION ONLY. SEE REMOVAL PLANS FOR ACTION ITEMS.

PROPOSED PAVEMENT LEGEND

PROPOSED DRIVEWAY, NONREINF CONC, 6/8 INCH OR SIDEWALK, CONC, 4/6/8 INCH

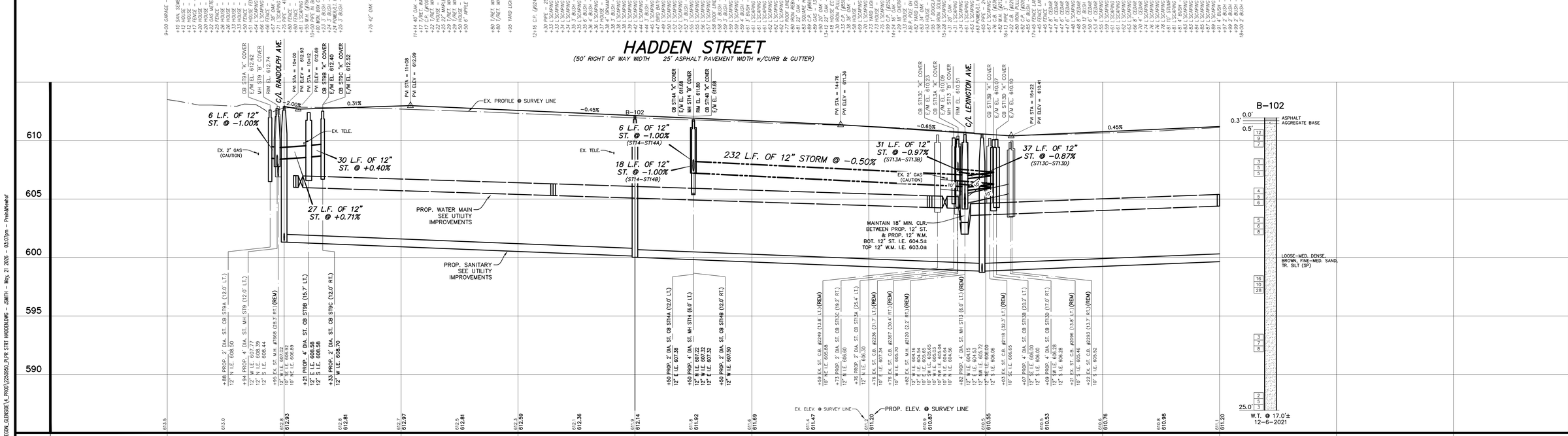
NOTES: PROPOSED PAVEMENT ON STREET & INTERSECTIONS NOT SHADED FOR CLARITY.

SOIL EROSION CONTROL LEGEND

PROPOSED EROSION CONTROL INLET PROTECTION FABRIC DROP

HADDEN STREET

(50' RIGHT OF WAY WIDTH 25' ASPHALT PAVEMENT WIDTH w/CURB & GUTTER)



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DATE MAY '26

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MUSKEGON COUNTY, MICHIGAN

STREET IMPROVEMENTS

HADDEN STREET

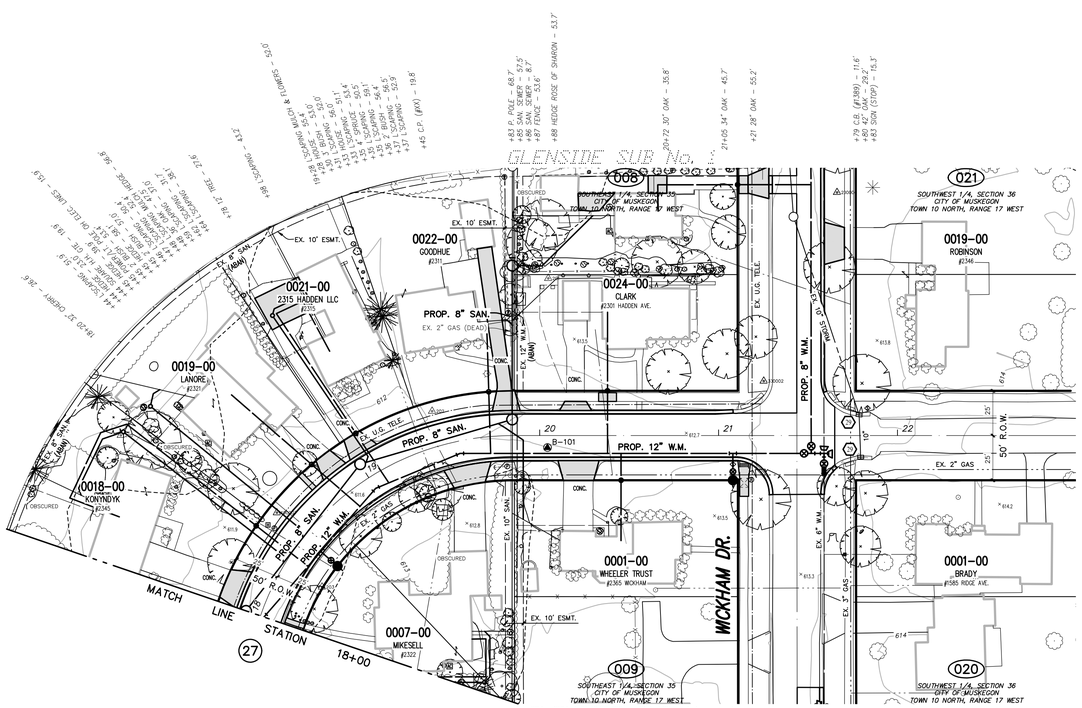
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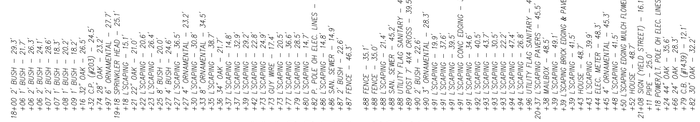
SHEET NO. 27 OF 36

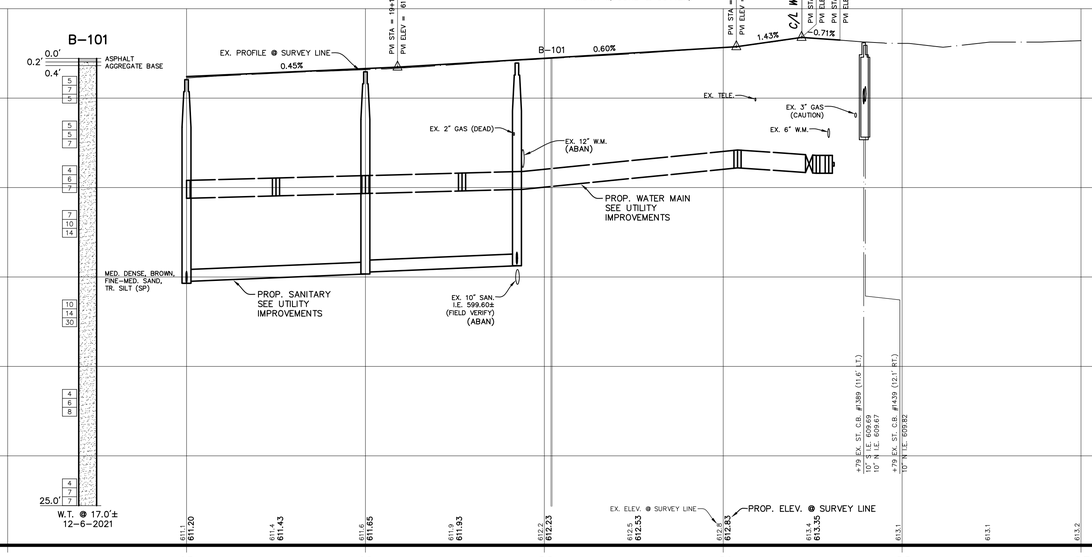
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B.M. EL. 613.23
HADDEN STREET & WICKHAM DRIVE, 190'± W & 50'± N OF C/L "X", HOUSE # 2311, TOP SE CORNER BOTTOM CONC. STEP

CONTROL POINT TABLE			
POINT No.	NORTHING	EASTING	ELEVATION
3	629091.90	12612497.76	613.57
103	629091.90	12612497.76	613.57
107	629030.60	12612222.63	611.88
202	629083.40	12612311.83	612.00
203	628987.96	12612245.95	611.89
100002	629091.90	12612497.76	613.57
100007	629030.60	12612222.63	611.88







TOPOGRAPHY TEXT NOTE

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PROPOSED PAVEMENT LEGEND

PROPOSED DRIVEWAY, NONREINF CONC, 6/8 INCH OR SIDEWALK, CONC, 4/6/8 INCH

NOTES: PROPOSED PAVEMENT ON STREET & INTERSECTIONS NOT SHADED FOR CLARITY.

SOIL EROSION CONTROL LEGEND

PROPOSED EROSION CONTROL INLET PROTECTION FABRIC DROP

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1" = 4' VERT.

NO.	REVISIONS	BY	DATE

DRAWN J.J.S.
DATE MAY '26
CHECKED M.R.H.
DATE MAY '26

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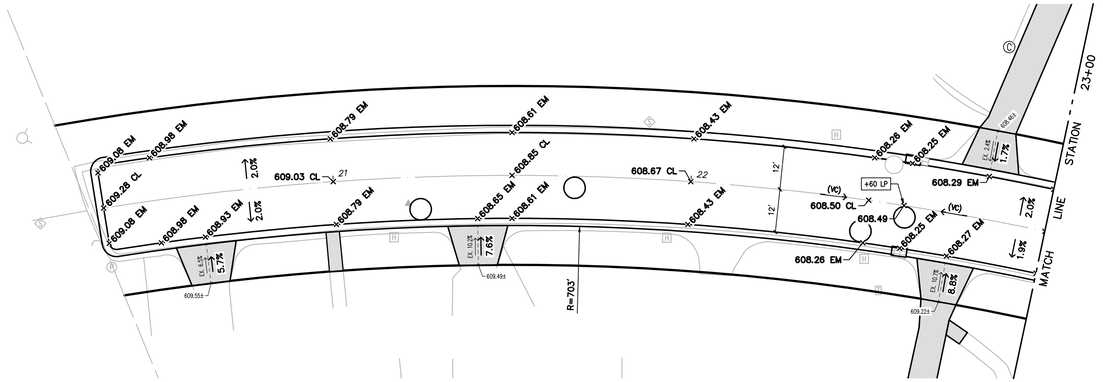
CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN

STREET IMPROVEMENTS

HADDEN STREET

PROJECT NO. 2250950
SHEET NO. 28 OF 36

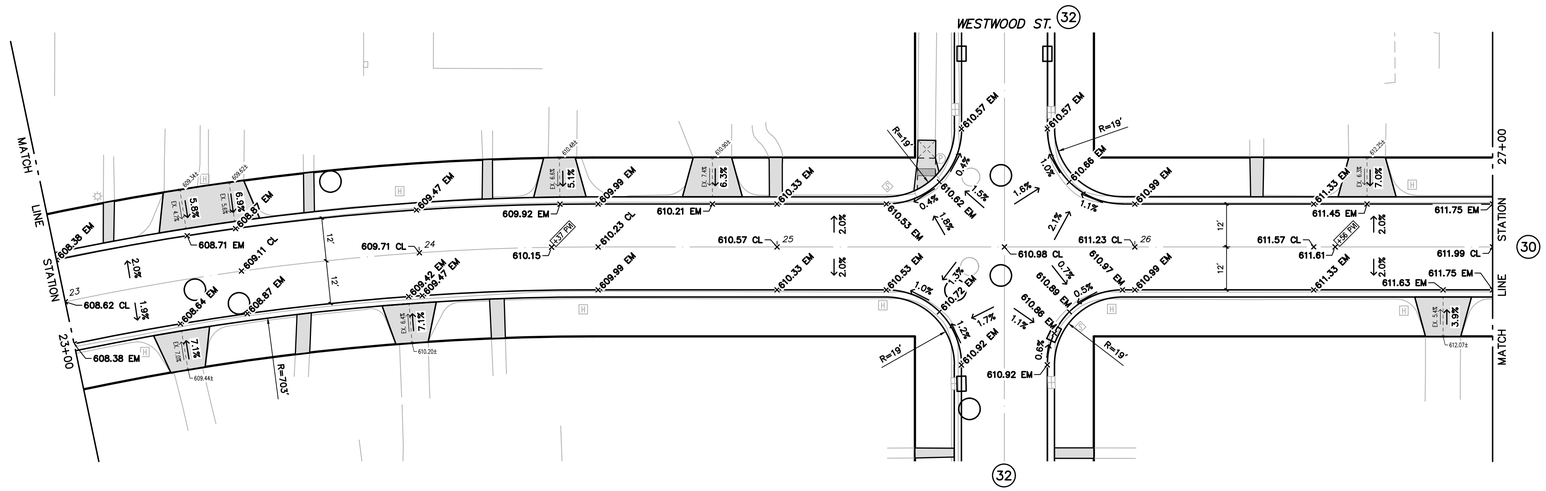
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GRADING DETAILS – WINCHESTER DRIVE

North

SCALE : 1" = 20'



GRADING DETAILS – WINCHESTER DRIVE

North

SCALE : 1" = 20'

NO.	REVISIONS	BY	DATE

DRAWN J.J.S.
DATE MAY '26
CHECKED M.R.H.
DATE MAY '26

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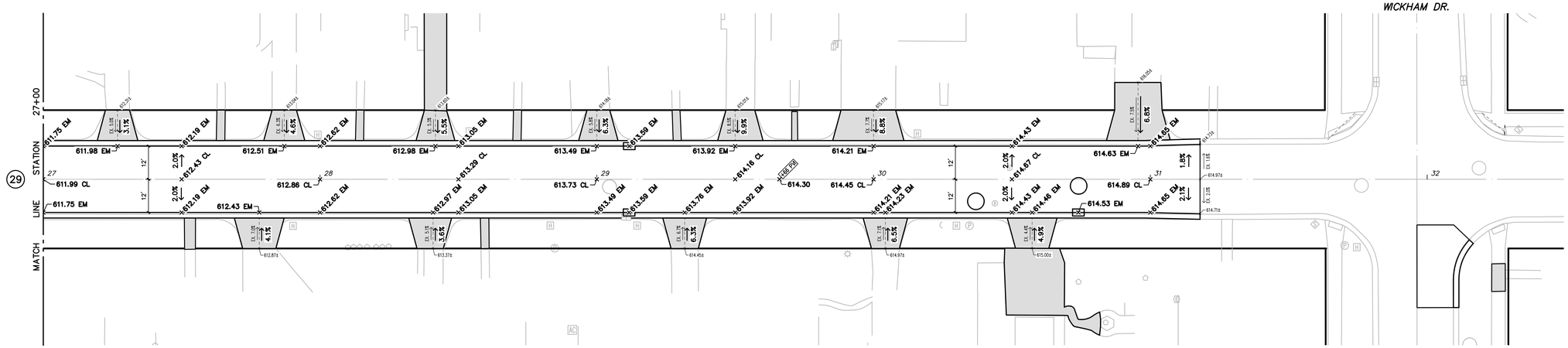
STREET IMPROVEMENTS

GRADING DETAILS

PROJECT NO. 2250950

SHEET NO. 29 OF 36

T:\CIVIL3D PROJECTS\2025\2250950_MUSKEGON_OLDNSBC\4_PROD\2250950_GRAD_WINCHESTER.DWG – JSMITH – May. 21, 2026 – 03:25pm – PreinNewhof



GRADING DETAILS – WINCHESTER DRIVE

SCALE : 1" = 20'

North

NO.	REVISIONS	BY	DATE

DRAWN J.J.S.
DATE MAY '26
CHECKED M.R.H.
DATE MAY '26

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MUSKEGON COUNTY, MICHIGAN

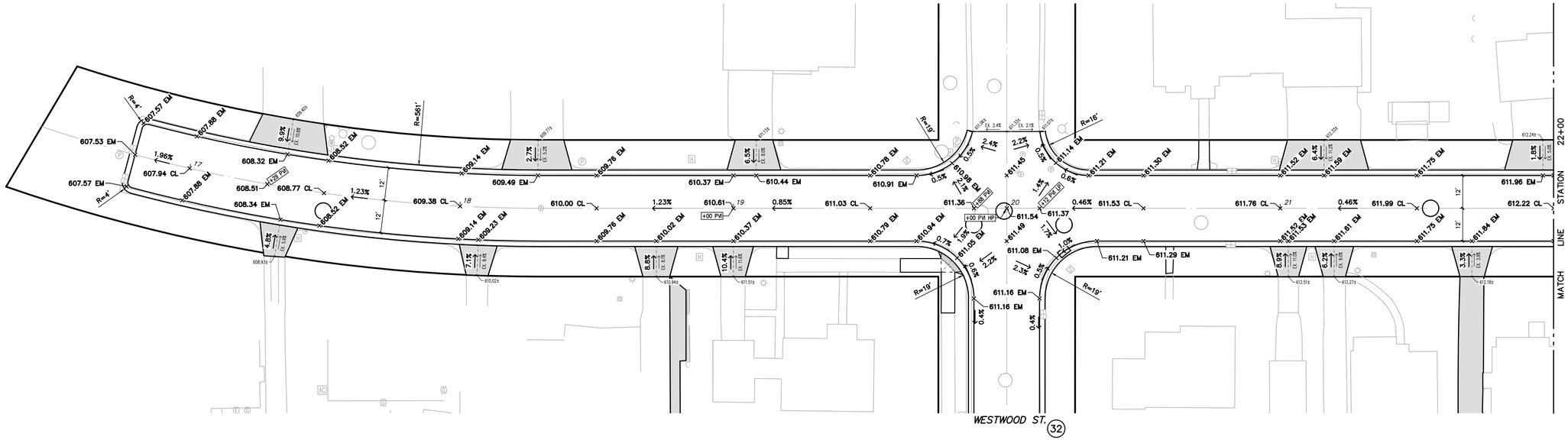
STREET IMPROVEMENTS

GRADING DETAILS

PROJECT NO. 2250950

SHEET NO. 30 OF 36

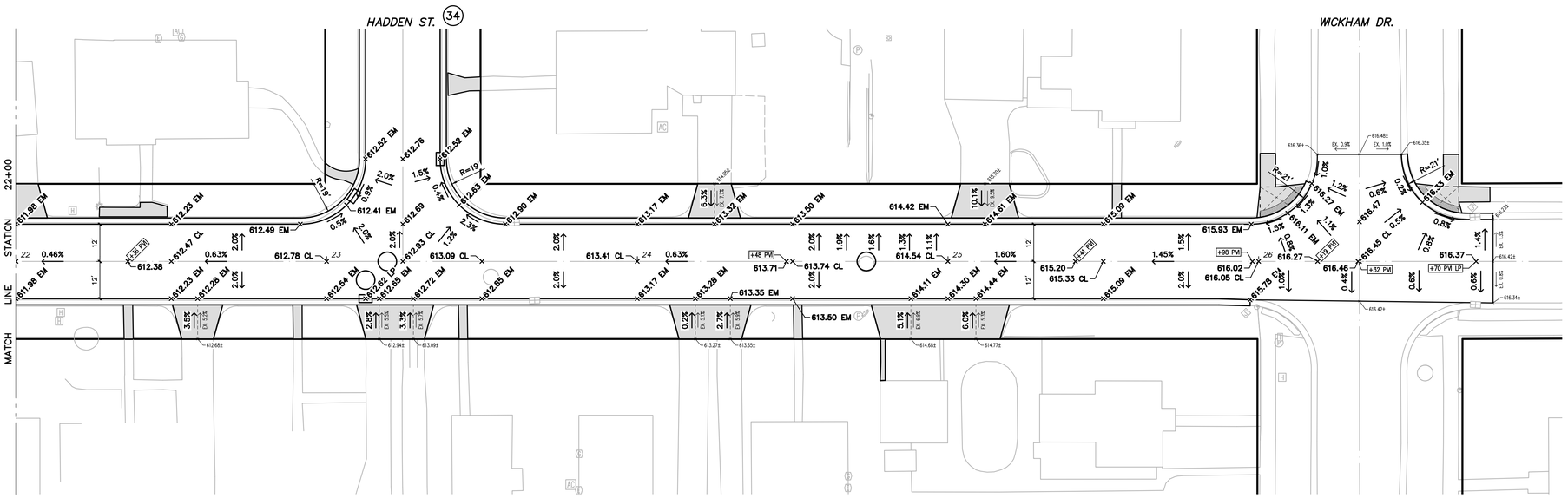
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GRADING DETAILS – RANDOLPH AVENUE

SCALE : 1" = 20'

North



GRADING DETAILS – RANDOLPH AVENUE

SCALE : 1" = 20'

North

NO.	REVISIONS	BY	DATE

DRAWN: J.J.S.
DATE: MAY '26
CHECKED: M.R.H.
DATE: MAY '26

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MUSKEGON COUNTY, MICHIGAN

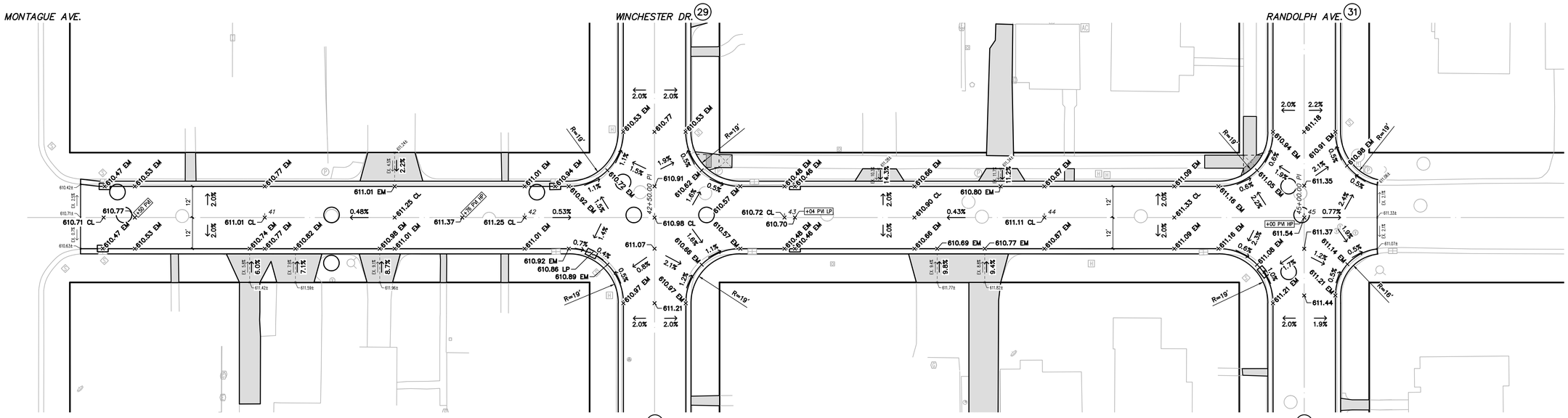
STREET IMPROVEMENTS

GRADING DETAILS

PROJECT NO. 2250950

SHEET NO. 31 OF 36

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GRADING DETAILS – WESTWOOD STREET

SCALE : 1" = 20'

North

NO.	REVISIONS	BY	DATE

DRAWN J.J.S.
DATE MAY '26
CHECKED M.R.H.
DATE MAY '26

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CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN

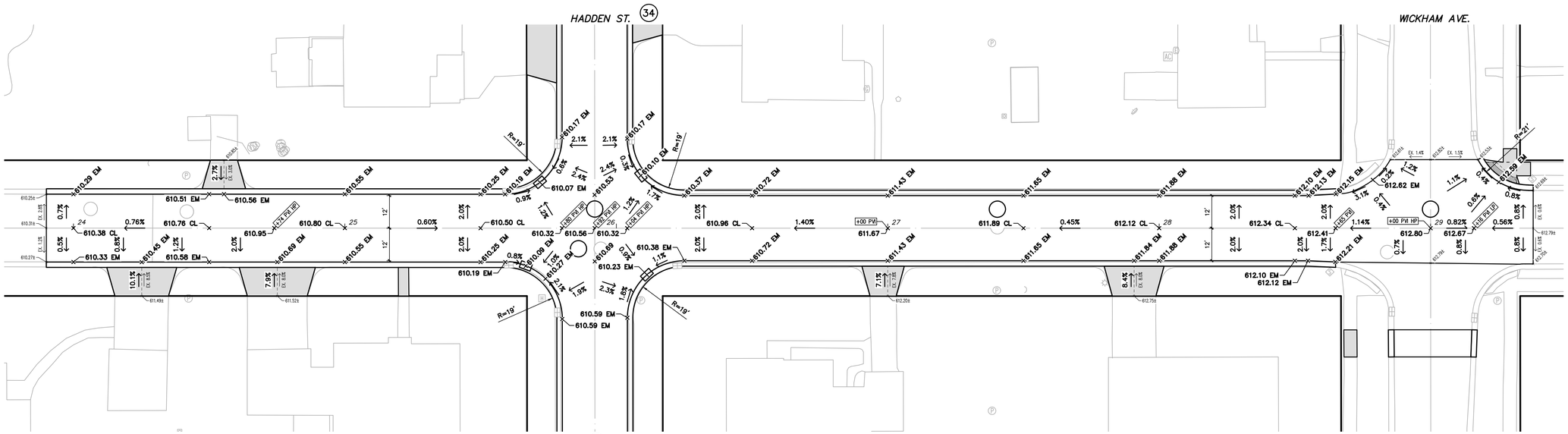
STREET IMPROVEMENTS

GRADING DETAILS

PROJECT NO. 2250950

SHEET NO. 32 OF 36

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GRADING DETAILS – LEXINGTON AVENUE

SCALE : 1" = 20'

North

NO.	REVISIONS	BY	DATE

DRAWN J.J.S.
DATE MAY '26
CHECKED M.R.H.
DATE MAY '26

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CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN

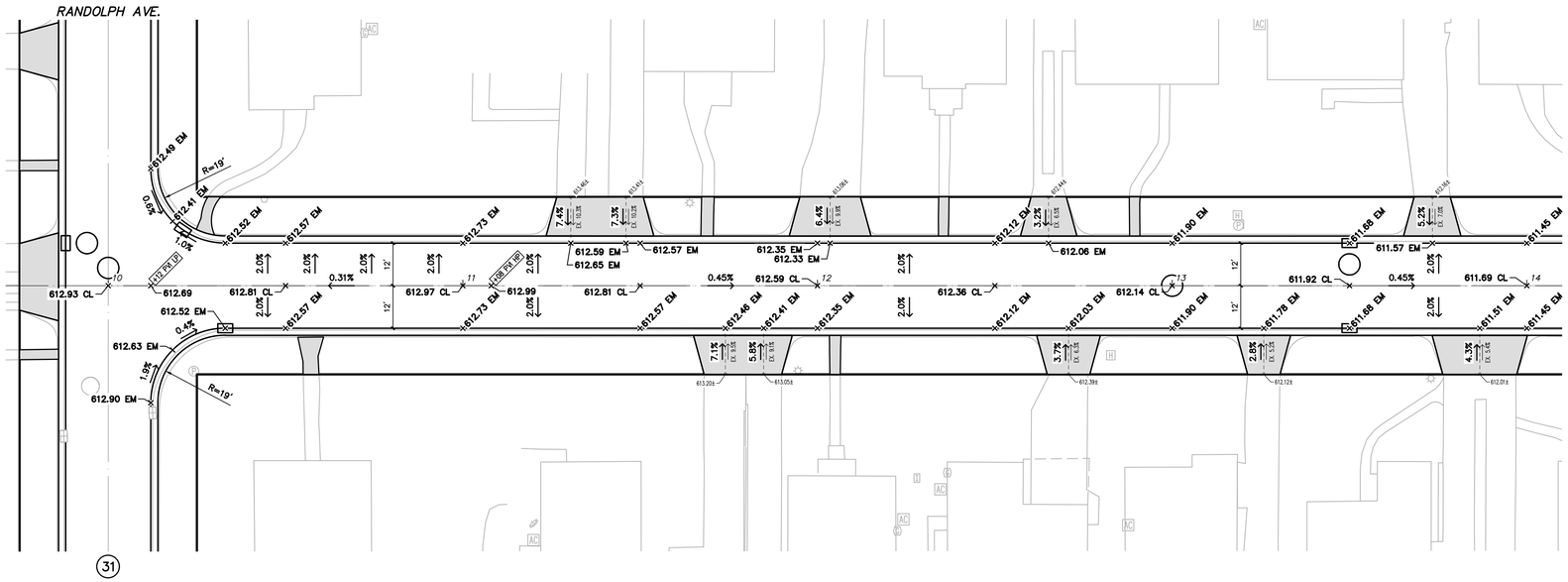
STREET IMPROVEMENTS

GRADING DETAILS

PROJECT NO. 2250950

SHEET NO. 33 OF 36

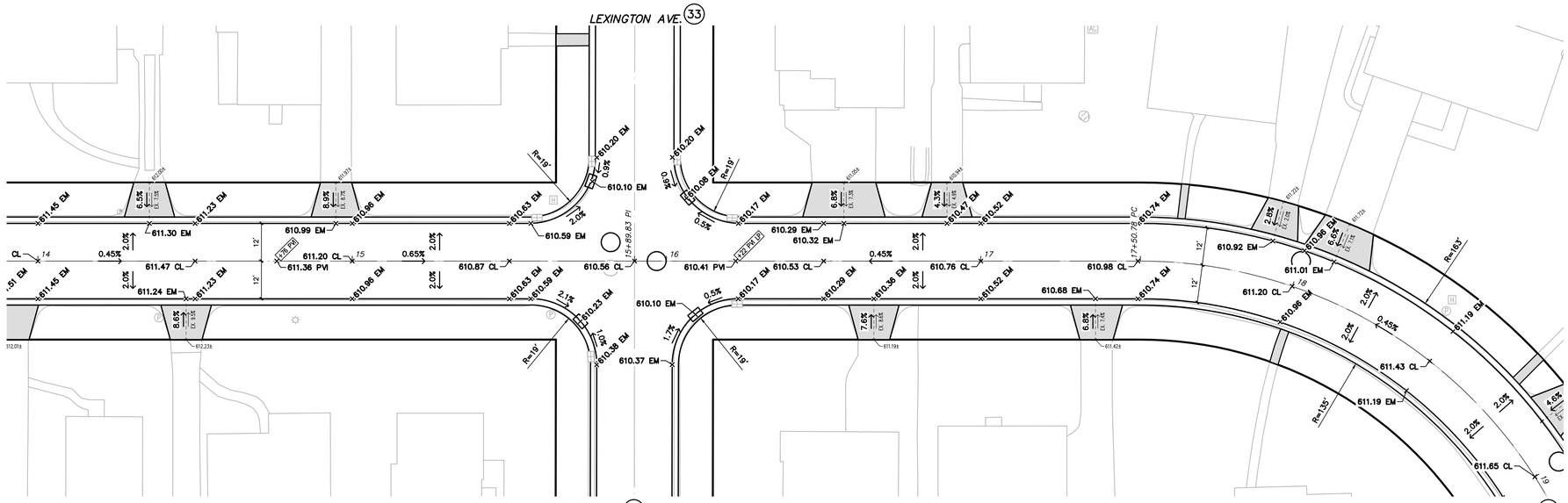
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GRADING DETAILS – HADDEN STREET

SCALE : 1" = 20'

North



GRADING DETAILS – HADDEN STREET

SCALE : 1" = 20'

North

NO.	REVISIONS	BY	DATE

DRAWN: J.J.S.
DATE: MAY '26
CHECKED: M.R.H.
DATE: MAY '26

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MUSKEGON COUNTY, MICHIGAN

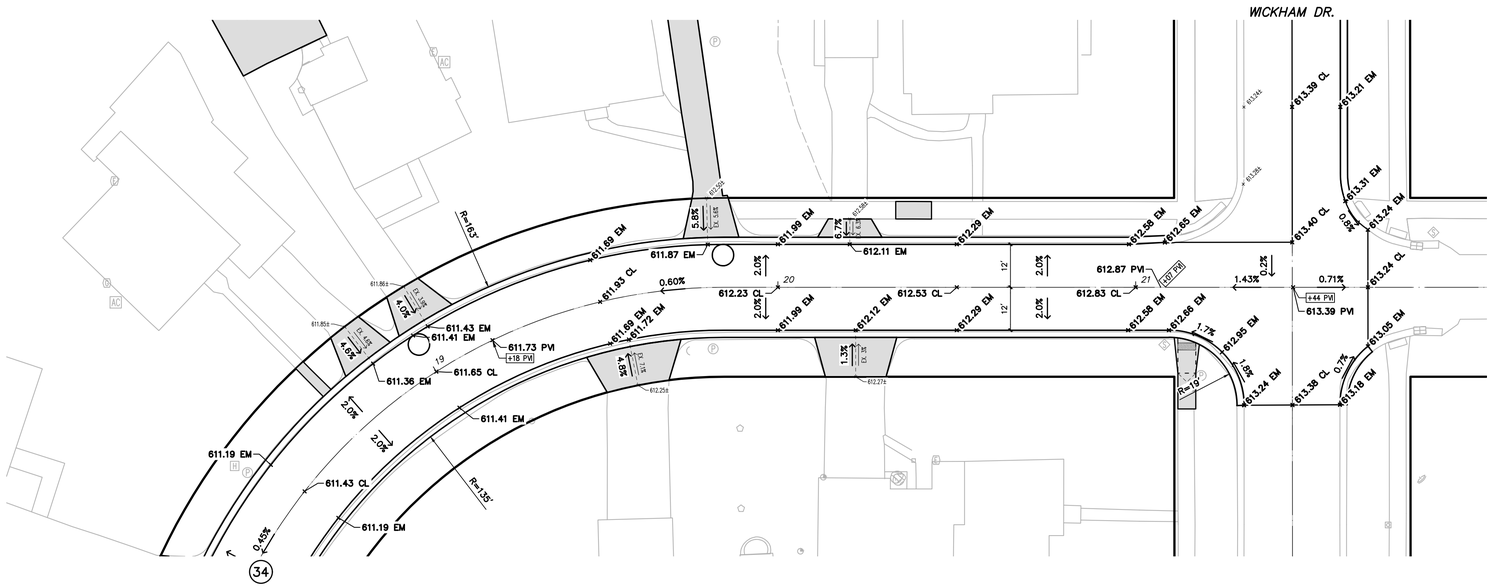
STREET IMPROVEMENTS

GRADING DETAILS

PROJECT NO. 2250950

SHEET NO. 34 OF 36

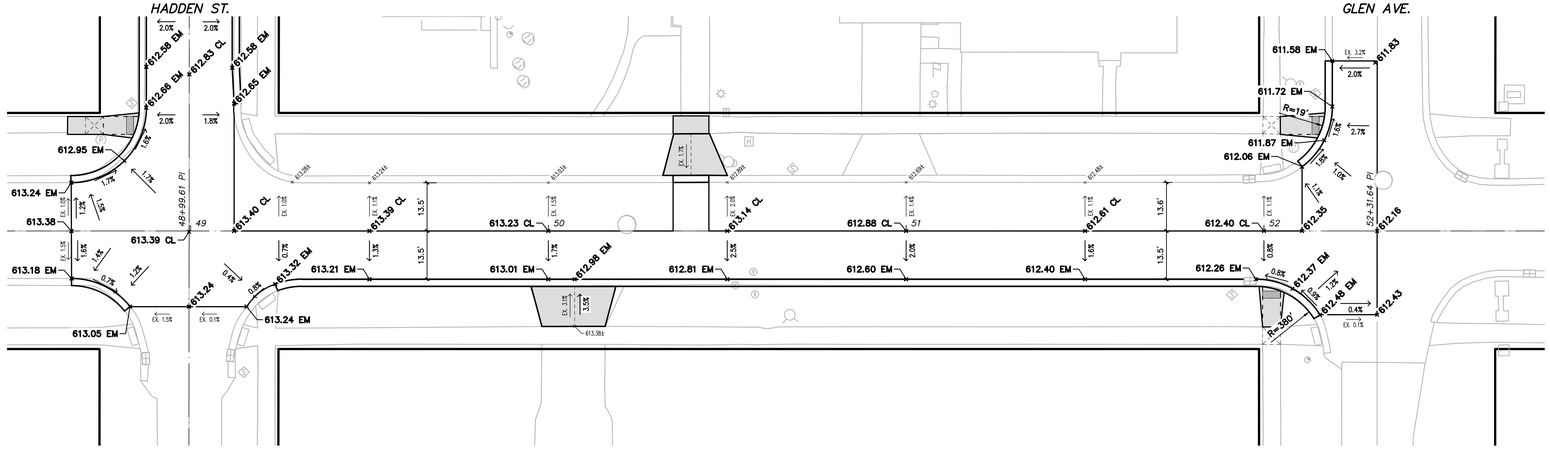
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GRADING DETAILS – HADDEN STREET

SCALE : 1" = 20'

North



GRADING DETAILS – WICKHAM DRIVE

SCALE : 1" = 20'

North

NO.	REVISIONS	BY	DATE

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DATE MAY '26
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DATE MAY '26

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MUSKEGON COUNTY, MICHIGAN

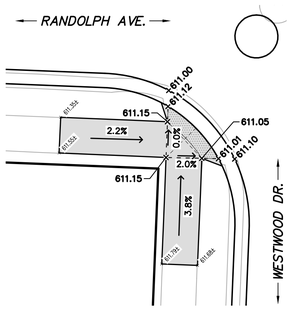
STREET IMPROVEMENTS

GRADING DETAILS

PROJECT NO. 2250950

SHEET NO. 35 OF 36

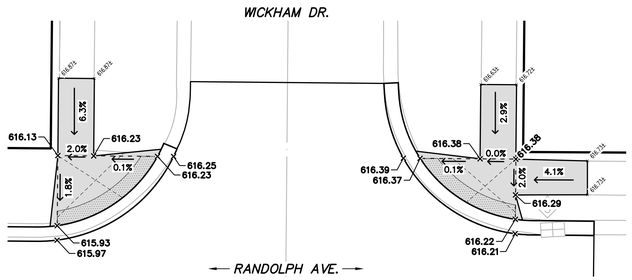
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SIDEWALK GRADING DETAILS
RANDOLPH AVE. & WESTWOOD DR.

SCALE : 1" = 10'

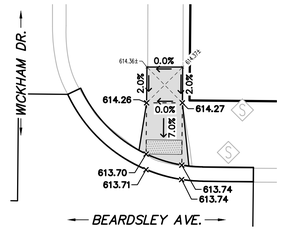
North



SIDEWALK GRADING DETAILS
WICKHAM DR. & RANDOLPH AVE.

SCALE : 1" = 10'

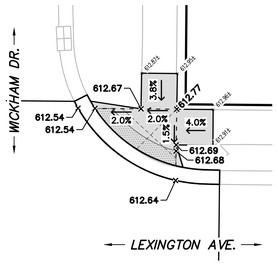
North



SIDEWALK GRADING DETAILS
WICKHAM DR. & BEARDSLEY AVE.

SCALE : 1" = 10'

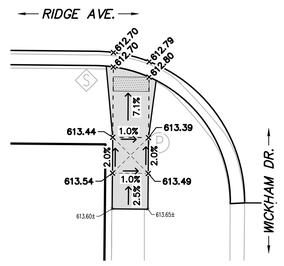
North



SIDEWALK GRADING DETAILS
WICKHAM DR. & LEXINGTON AVE.

SCALE : 1" = 10'

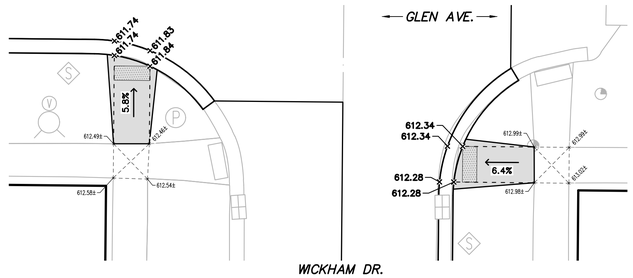
North



SIDEWALK GRADING DETAILS
WICKHAM DR. & RIDGE AVE.

SCALE : 1" = 10'

North



SIDEWALK GRADING DETAILS
WICKHAM DR. & RIDGE AVE.

SCALE : 1" = 10'

North

NO.	REVISIONS	BY	DATE

DRAWN J.J.S.
DATE MAY '26
CHECKED M.R.H.
DATE MAY '26

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STREET IMPROVEMENTS

SIDEWALK RAMP GRADING DETAILS

PROJECT NO. 2250950

SHEET NO. 36 OF 36

T:\CIVIL3D PROJECTS\2025\2250950_MUSKEGON_OLDNSIDE\4_PROD\2250950_GRAD SWLDWG - JSMITH - May 21 2026 - 03:42pm - PreinNewhof