

ALLEGAN COUNTY ROAD COMMISSION

104TH AVENUE RECONSTRUCTION PROJECT 65TH STREET TO 62ND STREET

CASCO TOWNSHIP

UTILITY CONTACTS

ELECTRIC
CONSUMERS ENERGY
4000 CLAY AVE, SW
GRAND RAPIDS, MI 49548
317-445-8814
COLE ROCHOVIAK
HAMHSTCIVIMP@cmsenergy.com

TELEPHONE
FRONTIER COMMUNICATIONS
269-370-4046
LANCE WEBLEY
lance.webley@ftr.com

MISS DIG 811

**Board of County Road Commissioners
Of Allegan County**

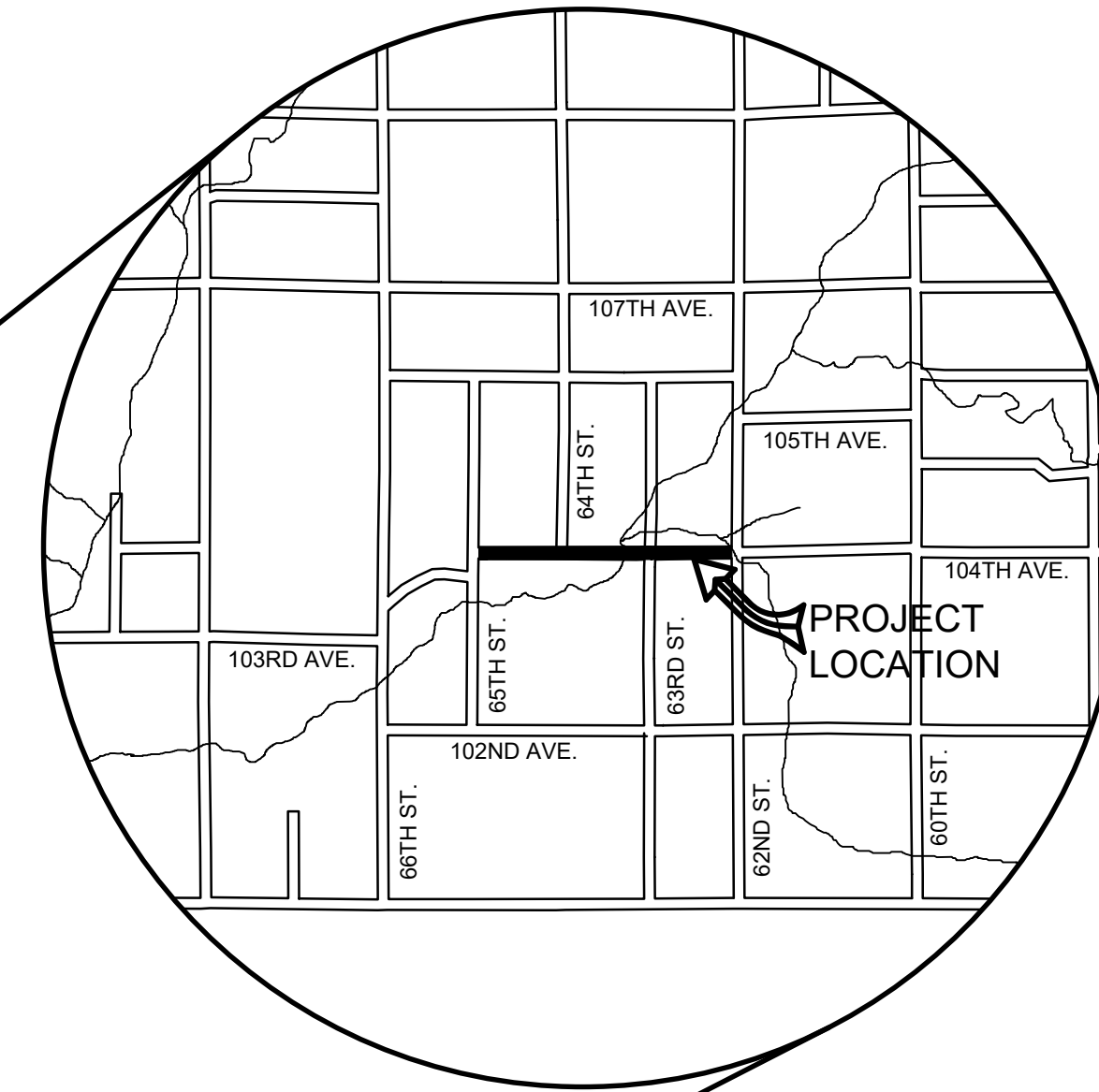
1308 LINCOLN ROAD
ALLEGAN, MICHIGAN 49010-9762
TELEPHONE (269) 673-2184 www.alleganroads.org FAX (269) 673-5922

EXCEPT WHERE OTHERWISE INDICATED ON THESE PLANS OR IN THE PROPOSAL AND SUPPLEMENTAL SPECIFICATIONS CONTAINED THEREIN, ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE 2020 MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION.

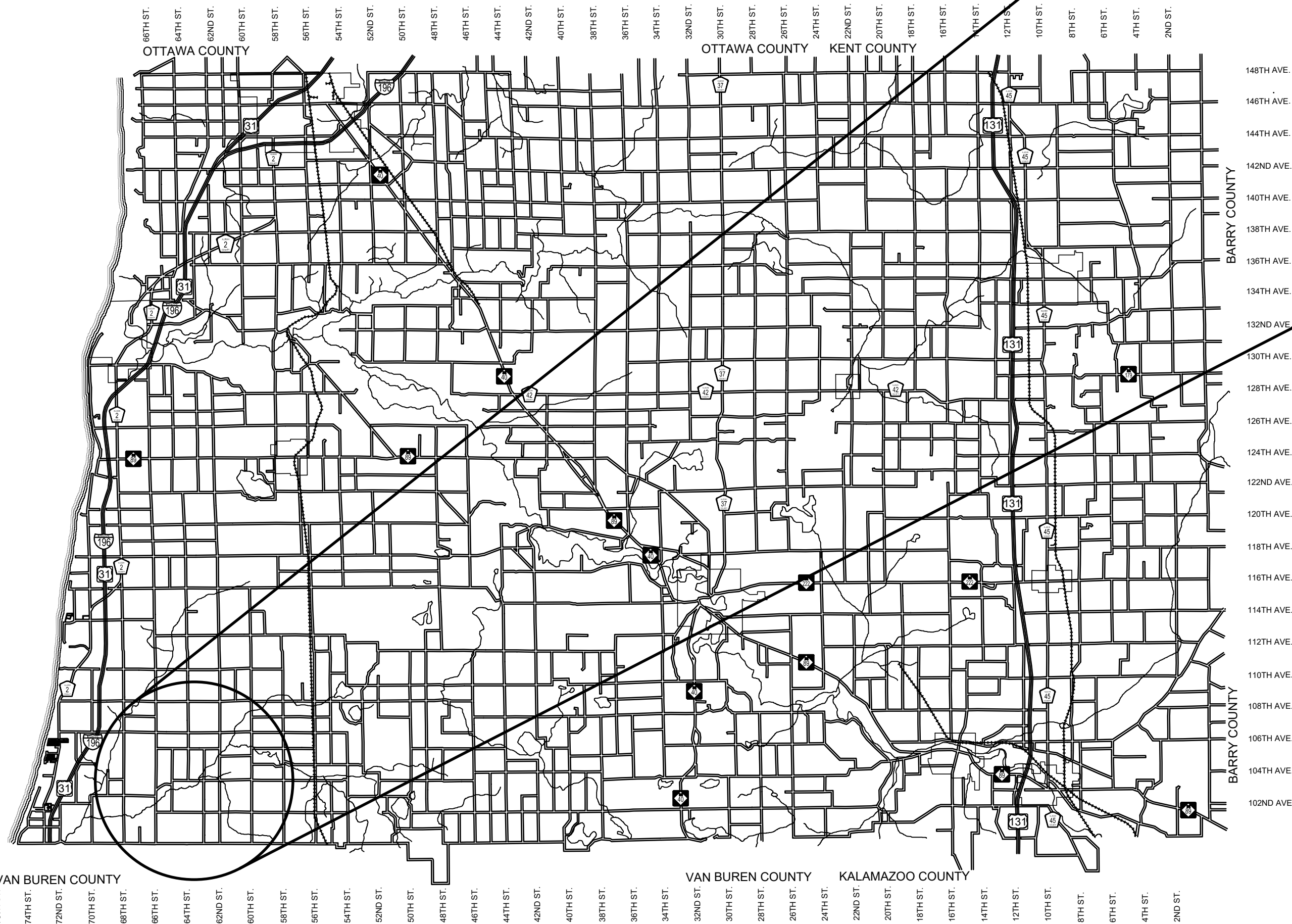
THE PLACING OF PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNS SHALL BE DONE IN ACCORDANCE WITH THE 2011 MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AS AMENDED.

THE IMPROVEMENTS COVERED BY THESE PLANS ARE IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2011 EDITION, A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS.

THE CONTRACTOR SHALL DIAL MISS DIG @ 811 FOR PROTECTION OF UNDER GROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013 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. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.



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ALLEGAN COUNTY, MICHIGAN
NOT TO SCALE

CONTRACT FOR ROAD IMPROVEMENTS
1.49 MILES OF ROADWAY RECONSTRUCTION INCLUDING CLEARING, GRADE ESTABLISHMENT, SAND SUBBASE, AGGREGATE BASE, CULVERT REPLACEMENTS, AND RESTORATION ON 104TH AVENUE FROM 65TH STREET TO 62ND STREET IN CASCO TOWNSHIP, ALLEGAN COUNTY.

PREPARED UNDER THE SUPERVISION OF:

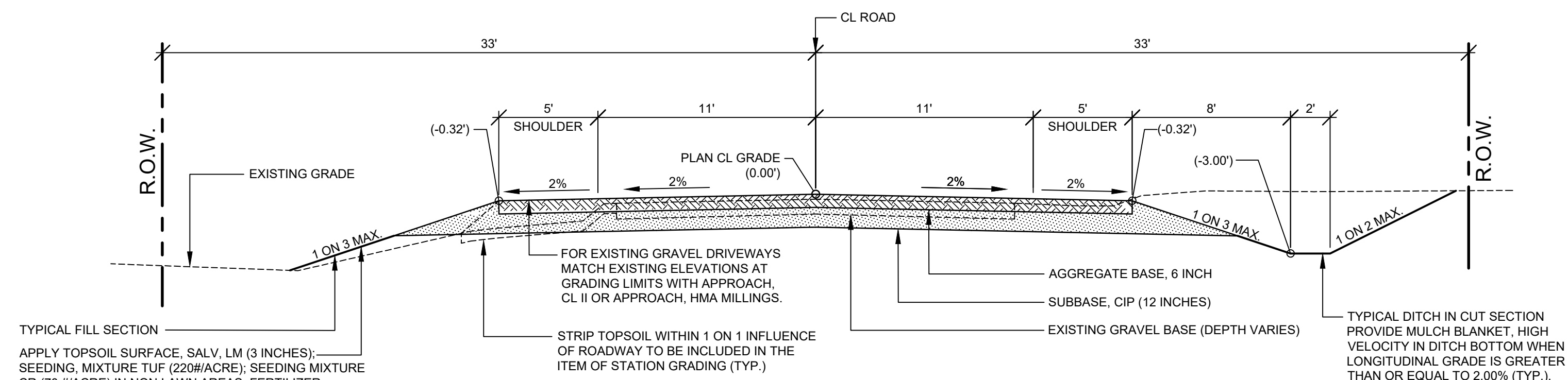
May 11, 2023

ADDISON C. WOLF
REGISTERED PROFESSIONAL ENGINEER No. 6201310174

104TH AVENUE RECONSTRUCTION PROJECT
 CASCO TOWNSHIP
 COVER SHEET

DRAWN BY:	ACW
REVIEWED BY:	RK
DATE:	APRIL 2023
SCALE:	NONE

LH 400123 1

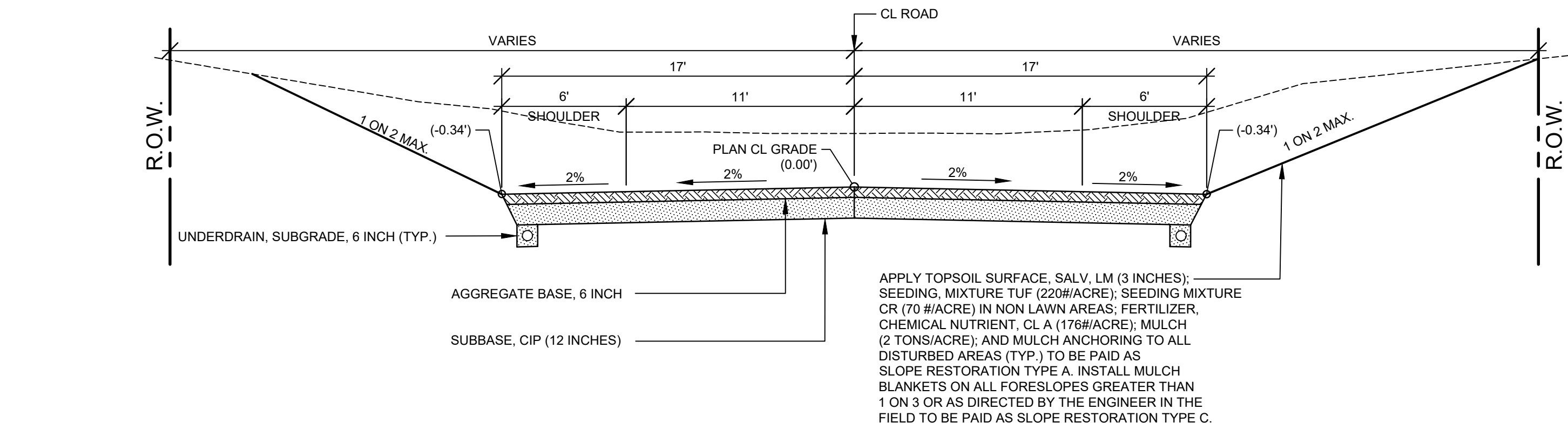


TYPICAL FILL SECTION
 APPLY TOPSOIL SURFACE, SALV. LM (3 INCHES); SEEDING MIXTURE TUF (220#/ACRE); SEEDING MIXTURE CR (70 #/ACRE) IN NON LAWN AREAS; FERTILIZER, CHEMICAL NUTRIENT, CL A (176#/ACRE); MULCH (2 TONS/ACRE); AND MULCH ANCHORING TO ALL DISTURBED AREAS (TYP.) TO BE PAID AS SLOPE RESTORATION TYPE A. INSTALL MULCH BLANKETS ON ALL FORESLOPES GREATER THAN 1 ON 3 OR AS DIRECTED BY THE ENGINEER IN THE FIELD TO BE PAID AS SLOPE RESTORATION TYPE C.

TYPICAL SECTION - 104TH AVENUE

SCALE: 1" = 5'

THIS SECTION APPLIES TO:
 P.O.B. TO STA. 45+40
 STA. 48+40 TO P.O.E.



TYPICAL SECTION - VALLEY GUTTER

SCALE: 1" = 5'

THIS SECTION APPLIES TO:
 STA. 37+00 TO STA. 44+00 RT.
 STA. 37+00 TO STA. 44+35 LT.
 STA. 49+00 TO STA. 56+00 LT. & RT.
 STA. 82+00 TO STA. 85+50 LT. & RT.

PROJECT NOTES

THE "2020 STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND "STANDARD PLANS" BY THE MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) ARE HEREBY INCORPORATED INTO THESE CONTRACT DOCUMENTS. COPIES OF THESE STANDARDS ARE AVAILABLE FOR INSPECTION AT THE OFFICE OF THE ENGINEER.

THE CONTRACTOR WILL BE RESPONSIBLE FOR CONTACTING THE ALLEGAN COUNTY ROAD COMMISSION TO NOTIFY THEM THAT WORK IS COMMENCING.

THE CONTRACTOR SHOULD NOTE THAT STATION GRADING WILL INCLUDE THE REMOVAL OF FENCES, CULVERTS, BRUSH, TREES SMALLER THAN 6". CONCRETE FOUNDATIONS, AND MISCELLANEOUS ITEMS AS REQUIRED AND WILL ALSO INCLUDE ALL EARTH EXCAVATION, EMBANKMENT, AND ALL OTHER OPERATIONS NECESSARY TO DEVELOP THE DESIRED CROSS SECTION. ALL TOPSOIL AND OTHER UNSUITABLE MATERIAL LOCATED BENEATH THE PROPOSED PAVEMENT SECTION WILL BE REMOVED TO THE SUBGRADE ELEVATION AS PART OF STATION GRADING. ALL TOPSOIL REMOVED MAY BE STOCKPILED AND REUSED AS TOPSOIL SURFACE, SALV. LM.

ALL FILL FOR THIS PROJECT MUST BE OBTAINED AND FURNISHED BY THE CONTRACTOR. ALL REQUIRED FILL SHALL BE SELECTED EXCAVATED MATERIAL FROM THE SITE APPROVED BY THE ENGINEER. OR MDOT CLASS II GRANULAR MATERIAL FROM BORROW. EXCESS FILL WILL BE REMOVED FROM SITE BY THE CONTRACTOR. NO BORROW OR SOIL REMOVAL ARRANGEMENTS HAVE BEEN PREARRANGED FOR THIS PROJECT AND WILL BE THE TOTAL RESPONSIBILITY OF THE CONTRACTOR.

THE SOIL BORINGS WERE TAKEN BY GREAT LAKES DRILLING COMPANY, P.O. BOX 51, ALLEGAN, MI 49010 ON JANUARY 6, 2023. THE TEST BORINGS REPRESENT POINT INFORMATION AND MAY NOT HAVE ENCOUNTERED ALL THE TYPES AND MATERIALS WHICH ARE PRESENT AT THE SITE. THESE BORING LOGS DO NOT CONSTITUTE A GUARANTEE OF THE SOIL OR GROUNDWATER CONDITIONS, OR THAT THE TEST BORINGS ARE AN EXACT REPRESENTATION OF THE SOIL OR GROUNDWATER CONDITIONS AT ALL POINTS ON THE SITE.

SEE PLAN AND PROFILE SHEETS FOR SOIL BORING DATA.

DRIVE REPLACEMENT WILL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER IN THE FIELD.

THE ITEM OF SUBBASE, CIP WILL BE PAID FOR AT PLAN QUANTITY EXCEPT IN THE CASE OF A DESIGN CHANGE OR DEMONSTRATED ERROR.

AS PART OF THIS PROJECT THE CONTRACTOR WILL COORDINATE WITH THE ALLEGAN COUNTY ROAD COMMISSION TO PRESERVE AND RESET ALL GOVERNMENT CORNERS WITHIN THE PROJECT LIMITS.

CONTRACTOR WILL RELOCATE ALL MAILBOXES TO A TEMPORARY CENTRAL LOCATION APPROVED BY THE POSTAL SERVICE PRIOR TO CONSTRUCTION. CONTRACTOR SHALL INSTALL A 1" x 3" STAKE WITH THE RESPECTIVE PROPERTY ADDRESS WRITTEN ON IT IN THE FRONT YARD OF EACH RESIDENCE TO ASSIST WITH IDENTIFICATION FOR EMERGENCY VEHICLES. PAYMENT FOR RELOCATION WILL BE INCLUDED IN THE ITEM OF PROJECT CLEANUP. AT THE COMPLETION OF THE PROJECT SAID MAILBOXES SHALL BE RESET AT THEIR APPROPRIATE LOCATIONS.

ALL DISTURBED AREAS NOT TO BE PAVED WILL BE RESTORED WITH TOPSOIL SURFACE, SALV. LM (3 INCHES), MDT SEED MIXTURE TUF (220#/ACRE); SEEDING MIXTURE CR (70 #/ACRE) IN NON LAWN AREAS; FERTILIZER, CHEMICAL NUTRIENT, CL A (176#/ACRE); AND MULCH AND MULCH ANCHORING (2 TON/ACRE). TO BE PAID AS SLOPE RESTORATION, TYPE A. SEE SESC PLAN FOR AREAS TO USE HIGH VELOCITY MULCH BLANKET, TO BE PAID AS SLOPE RESTORATION TYPE C.

ADEQUATE DUST CONTROL MEASURES WILL BE MAINTAINED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER IN THE FIELD, TO BE INCLUDED IN THE VARIOUS ITEMS OF WORK.

MULCH BLANKET, HIGH VELOCITY WILL BE PLACED ON THE BOTTOM OF ALL DITCHES WHEN THE LONGITUDINAL GRADE IS GREATER THAN OR EQUAL TO 2.00% UNLESS OTHERWISE NOTED, OR AS DIRECTED BY THE ENGINEER IN THE FIELD TO BE PAID AS SLOPE RESTORATION TYPE C.

WHEN FIELD DRAIN TILES ARE ENCOUNTERED IN THE EXISTING DITCHES, THE CONTRACTOR WILL EXTEND THEM AS REQUIRED WITH UNDERDRAIN, SUBGRADE 4" OR 6" AND ADJUST THE DITCH GRADES AS NECESSARY TO PROVIDE POSITIVE DRAINAGE AS DIRECTED BY THE ENGINEER IN THE FIELD. THE COST OF THE CONNECTION WILL BE INCLUDED IN THE NEW PIPE ITEM. IF THE ENGINEER DETERMINES THAT AN EXISTING TILE IS TOO LONG THE CONTRACTOR WILL REMOVE THE TILE AS NECESSARY, TO BE INCLUDED IN THE ITEM OF STATION GRADING.

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EXISTING DRAINAGE PATTERNS, AND WILL RESOLVE ANY DRAINAGE PROBLEMS ON ADJACENT PROPERTIES WHICH MAY RESULT FROM THE CONTRACTOR'S ACTIVITIES.

DATUM REFERS TO NAVD88 DATUM.

DIMENSIONS TAKE PRECEDENCE OVER SCALE. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD.

UTILITY NOTES

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR WILL CONTACT "MISS DIG" AT 811, A MINIMUM OF 72 HOURS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THIS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

THE CONTRACTOR WILL LOCATE ALL ACTIVE UNDERGROUND UTILITIES PRIOR TO STARTING WORK AND WILL CONDUCT HIS OPERATIONS IN A MANNER AS TO ENSURE THAT THOSE UTILITIES NOT REQUIRING RELOCATION WILL NOT BE DISTURBED.

PRELIMINARY UTILITY COORDINATION WAS PERFORMED AND ALL UTILITIES HAVE VERIFIED LOCATIONS.

FRONTIER COMMUNICATIONS HAVE RELOCATED THEIR FACILITIES ALONG THE PROJECT.

MISCELLANEOUS QUANTITIES

DESCRIPTION	QUANTITY	UNIT
SUBGRADE UNDERCUTTING, TYPE II	1500	CYD
AGGREGATE, BA	50	TON
GEOTEXTILE, STABILIZATION	3000	SYD
CULV END SECT. CONC, 18 INCH	2	EA
CULV, CL E CONC, 18 INCH	48	FT
RIPRAP, PLAIN	30	SYD
EROSION CONTROL, SILT FENCE	1000	FT
EROSION CONTROL, CHECK DAM	250	FT
APPROACH, CL II	70	TON
CULV, CL F, 12 INCH	60	FT
CULV, CL F, 18 INCH	40	FT

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REVISIONS	1	2	3	4	5	6	7

104TH AVENUE RECONSTRUCTION PROJECT
 CASCO TOWNSHIP - 65TH STREET TO 62ND STREET

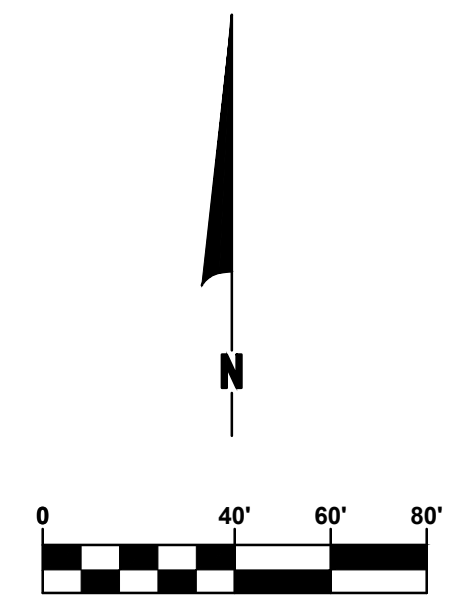
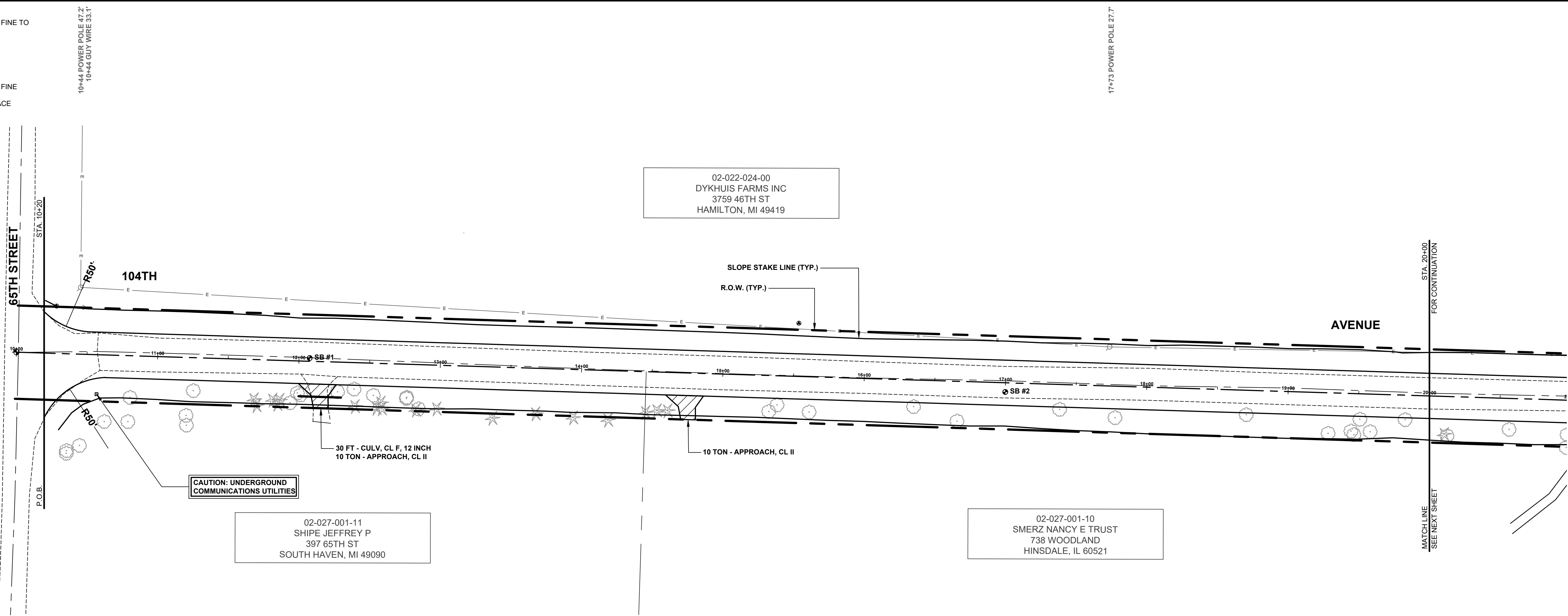
TYPICAL SECTIONS, DETAILS, & NOTES

DRAWN BY: ACW
 REVIEWED BY: RK
 DATE: APRIL 2023
 SCALE: AS NOTED

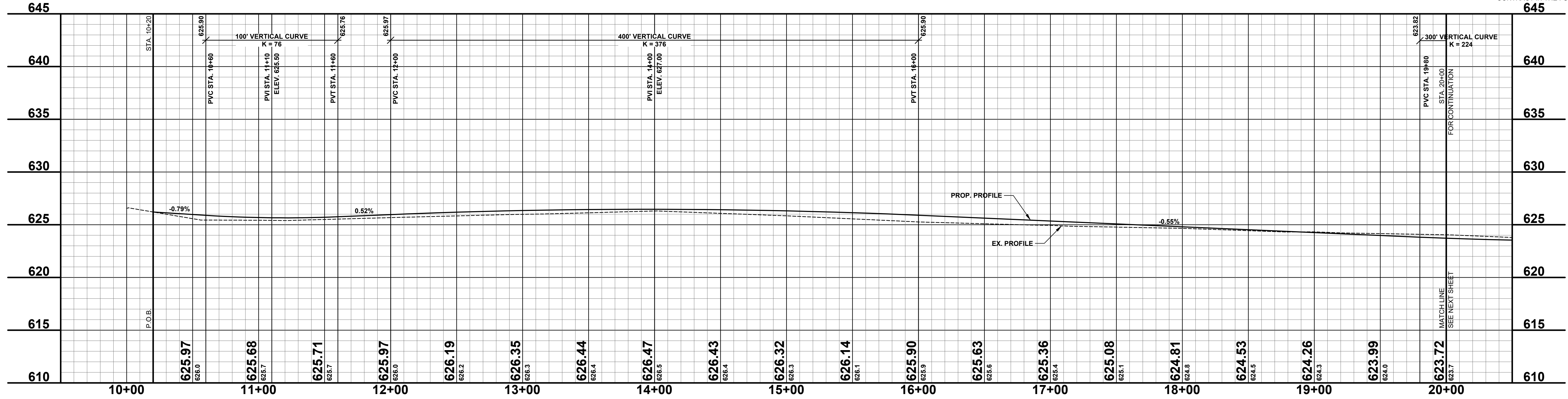
LH 400123 2

SOIL BORINGS

- SB #1**
 0 - 3.5' BROWN MEDIUM SAND, SOME FINE TO COARSE GRAVEL
 3.5' - 30' DARK BROWN FINE SAND
 30' - 60' BROWN SILTY FINE SAND
 60' END OF BORING
- SB #2**
 0 - 5' BROWN MEDIUM SAND, SOME FINE TO COARSE GRAVEL
 5' - 15' DARK BROWN FINE SAND, TRACE TOPSOIL
 15' - 36' BROWN FINE SAND
 36' - 60' LIGHT BROWN FINE SAND
 60' END OF BORING



- LEGEND**
- REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CLASS II TO A DEPTH OF 6" AS DIRECTED BY THE ENGINEER IN THE FIELD, PAID FOR AS APPROACH, CL II BY THE TON.
 - SAW/CUT AND REMOVE EXISTING HMA PAVEMENT, REGRADE EXISTING DRIVE OR APPROACH AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 4EL (LEVELING); AND 165#/SYD HMA, 4EL (TOP) (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE)
 - SAW/CUT AND REMOVE EXISTING CONCRETE PAVEMENT, REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 4EL (LEVELING); AND 165#/SYD HMA, 4EL (TOP) (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE)



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104TH AVENUE RECONSTRUCTION PROJECT
 CASCO TOWNSHIP - 65TH STREET TO 62ND STREET
 PLAN & PROFILE - STA. P.O.B. TO STA. 20+00

DRAWN BY: ACW
 REVIEWED BY: RK
 DATE: MAY 2023
 SCALE: 1" = 40'H, 5'V

SOIL BORINGS

SB #3	0 - 10" BROWN MEDIUM SAND, SOME FINE TO COARSE GRAVEL
	10" - 42" DARK BROWN FINE TO MEDIUM SAND, TRACE FINE GRAVEL
	42" - 78" LIGHT BROWN FINE SAND
	78" - 120" BROWN FINE TO MEDIUM SAND
	120" END OF BORING
SB #4	0 - 5" BROWN MEDIUM SAND, SOME FINE TO COARSE GRAVEL
	5" - 18" DARK BROWN FINE SAND, TRACE TOPSOIL & TRACE CLAY
	18" - 28" BROWN SILTY CLAYEY FINE SAND
	28" - 78" BROWN FINE SAND
	78" - 120" BROWN FINE TO MEDIUM SAND, SOME FINE GRAVEL
	120" END OF BORING

REMOVE - 21+71.30' CMP 22.8'
21+72 M.6" PVC TILE OUTLET 31.4'
21+73 M.6" PVC TILE OUTLET 30.7'

REMOVE - 25+06.94' CPP 27.3'
25+07.25' CPP 27.3'
22+14 GUY WIRE 54.6'
22+35 GUY WIRE 33.6'

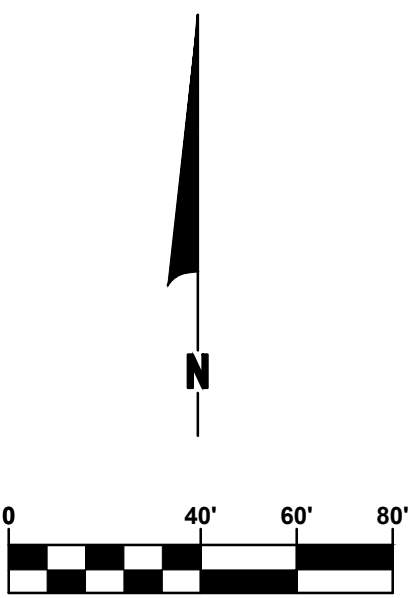
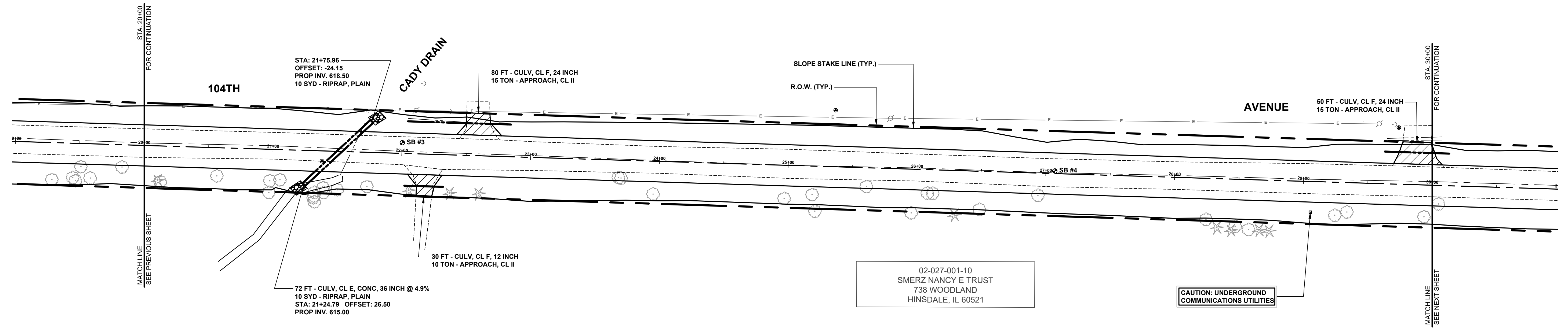
REMOVE - 22+82.24' CPP 24.5'

25+78 POWER POLE 39.0'

29+45 TRANSFORMER 47.6'
29+57 POWER POLE 46.3'
REMOVE - 29+64.18' CPP 35.3'
REMOVE - 29+65.15' CPP 35.9'
29+68 GUY WIRE 40.3'

02-022-024-00
DYKHUIS FARMS INC
3759 46TH ST
HAMILTON, MI 49419

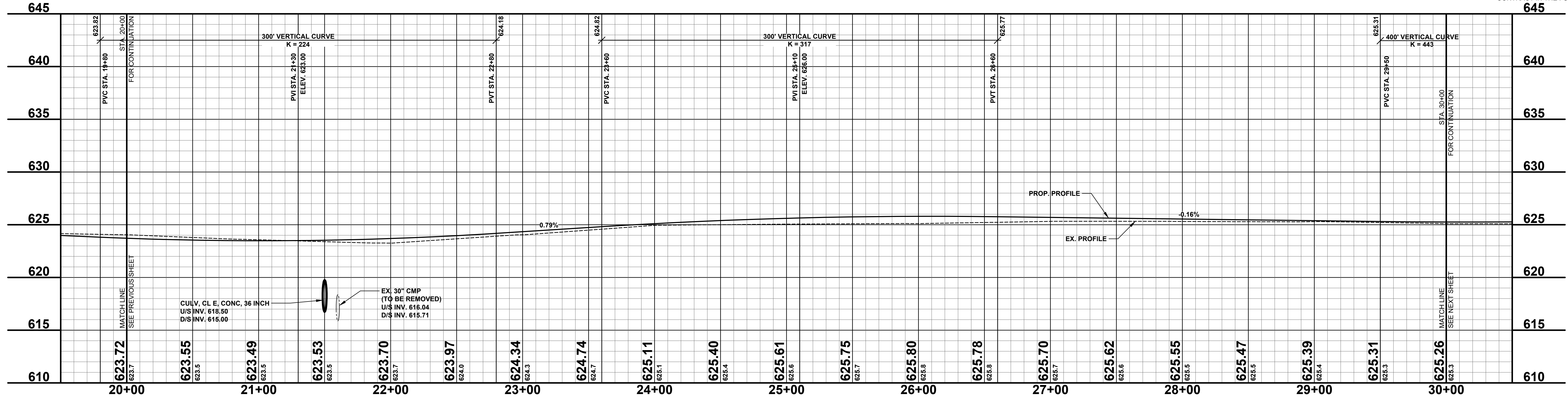
02-027-001-10
SMERZ NANCY E TRUST
738 WOODLAND
HINSDALE, IL 60521



- 20+11 6" PINE 26.6' - REMOVE
- 20+13 9" TREE 27.9' - REMOVE
- 20+57 9" TREE 22.0' - REMOVE
- 20+58 9" TREE 34.5'
- 20+58 15" CHERRY 24.5' - REMOVE
- 21+05 15" MAPLE 23.4' - REMOVE
- 21+32 15" CHERRY 36.7'
- 21+33 9" CHERRY 36.2'
- 21+33 18" MAPLE 39.7'
- 21+40 21" MAPLE 28.5' - REMOVE
- 21+40 9" MAPLE 32.2' - REMOVE
- 21+53 30" COMP 17.7' - REMOVE
- 21+74 15" TREE 26.6' - REMOVE
- 22+06 9" PINE 28.5' - REMOVE
- 22+38 6" PINE 29.6' - REMOVE
- 22+60 6" PINE 29.2' - REMOVE
- 23+69 6" TRI 13.6' - REMOVE
- 23+71 6" TRI 13.9' - REMOVE
- 23+96 6" TREE 26.6' - REMOVE
- 24+98 6" TW 25.8' - REMOVE
- 25+19 6" TREE 22.1' - REMOVE
- 25+22 18" TREE 35.0'
- 25+61 12" TREE 14.6' - REMOVE
- 25+96 12" TREE 34.0'
- 26+09 6" TREE 16.2' - REMOVE
- 26+13 6" TREE 16.2' - REMOVE
- 26+30 18" PINE 34.4'
- 26+49 15" DEAD TREE 29.6' - REMOVE
- 26+94 12" TREE 17.3' - REMOVE
- 28+25 21" TREE 31.9' - REMOVE
- 28+54 9" PINE 37.9'
- 28+45 12" PINE 39.7'
- 28+48 9" TREE 36.6'
- 28+69 9" TREE 38.7'
- 28+67 6" PINE 38.8'
- 28+74 6" PINE 39.2'
- 29+06 TELE RISER BOX 23.8' - RELOCATE (BY OTHERS)
- 29+25 6" TREE 26.6' - REMOVE
- 29+34 6" TREE 22.9' - REMOVE
- 29+94 6" TREE 24.7' - REMOVE

LEGEND

- REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CLASS II TO A DEPTH OF 6". AS DIRECTED BY THE ENGINEER IN THE FIELD, PAID FOR AS APPROACH, CL II BY THE TON.
- SAWCUT AND REMOVE EXISTING HMA PAVEMENT. REGRADE EXISTING DRIVE OR APPROACH AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 4EL (LEVELING); AND 165#/SYD HMA, 4EL (TOP) - (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE)
- SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT. REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 4EL (LEVELING); AND 165#/SYD HMA, 4EL (TOP); (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE)



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CASCO TOWNSHIP - 65TH STREET TO 62ND STREET

PLAN & PROFILE - STA. 20+00 TO STA. 30+00

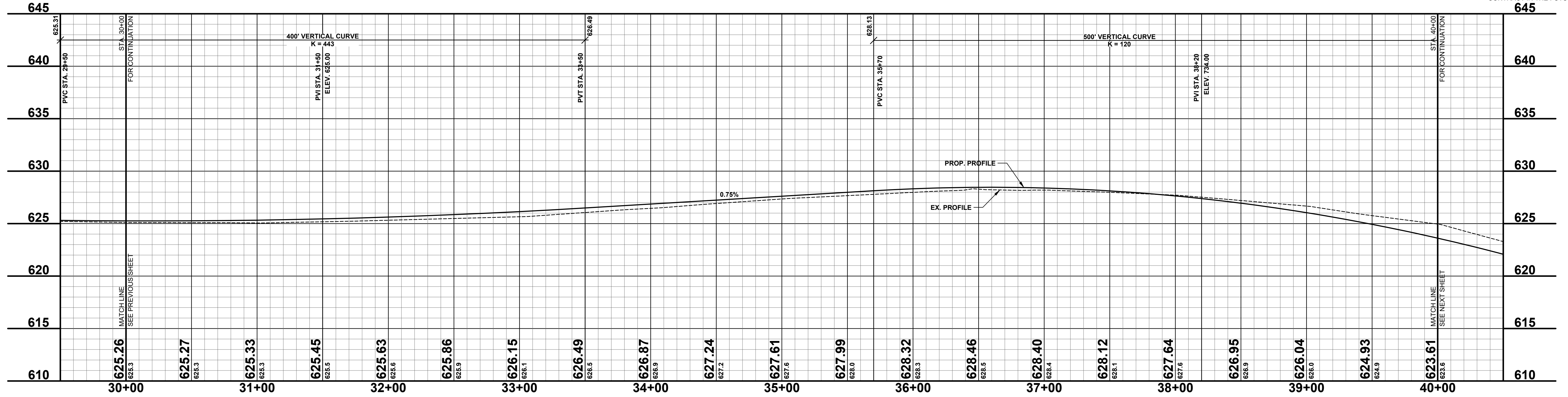
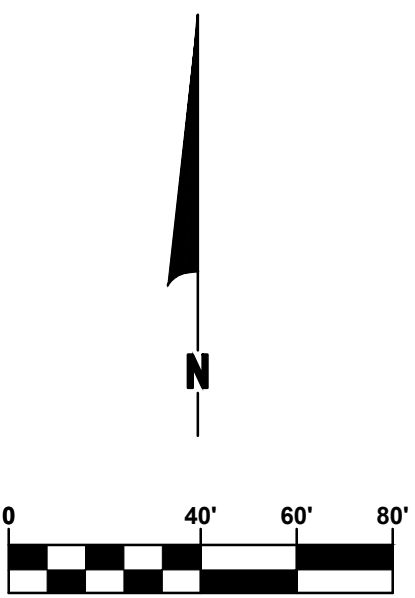
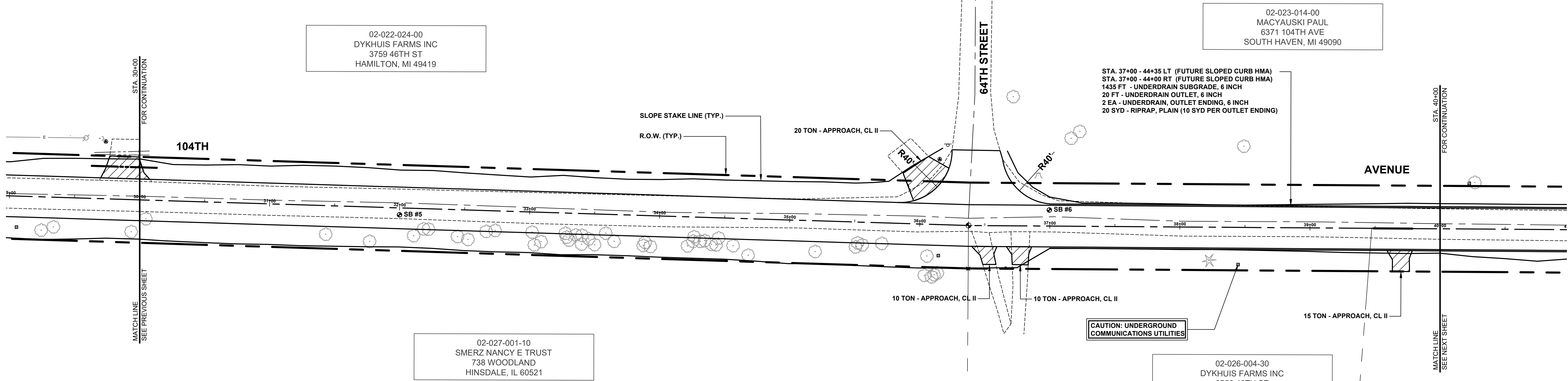
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SOIL BORINGS

SB #5	0 - 7"	BROWN MEDIUM SAND, SOME FINE TO COARSE GRAVEL	REMOVE - 30+06 18" CYP 37.7'
	7" - 22"	DARK BROWN TO BLACK CLAYEY FINE SAND, TRACE TOPSOIL	REMOVE - 30+06 18" CYP 34.6'
	22" - 60"	BROWN FINE SAND	
	60"	END OF BORING	
SB #6	0 - 5"	BROWN MEDIUM SAND, SOME FINE TO COARSE GRAVEL	
	5" - 21"	DARK BROWN CLAYEY FINE SAND, TRACE TOPSOIL	
	21" - 84"	BROWN SILTY, CLAYEY FINE SAND	
	84" - 120"	BROWN SILTY FINE SAND	
	120"	END OF BORING	



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PLAN & PROFILE - STA. 30+00 TO STA. 40+00

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SOIL BORINGS

SB #7	0 - 7"	BROWN MEDIUM SAND & FINE TO COARSE GRAVEL
	7" - 19"	DARK BROWN FINE SAND, TRACE FINE TO COARSE GRAVEL
	19" - 41"	BROWN FINE SAND
	41" - 60"	LIGHT BROWN FINE SAND
	60"	END OF BORING

40+22 TELE RISER BOX 35.1'
40+26 3" TR 35.8'

41+63 12" CPP 22.7'
41+63 12" CPP 43.2'

43+45 ORN. TREE 51.1'
43+55 GRN. TREE 49.2'

43+75 12" STUMP 33.0'
43+84 18" CPP 23.5'

44+30 18" CPP 61.5'
RELOCATE - 44+40 MAILBOX 6371 18.2'

45+64 GUY WIRE 25.9'
45+70 GUARDRAIL 16.7'
46+81 POWER POLE 26.5'

46+22 GUARDRAIL 14.6'
46+48 GUARDRAIL 14.4'

47+31 GUARDRAIL 14.4'

48+36 GUARDRAIL 16.4'

49+35 18" CMP 67.6'
49+75 18" CMP 23.1'
49+91 POWER POLE 25.2'

STA. 37+00 - 44+35 LT (FUTURE SLOPED CURB HMA)
STA. 37+00 - 44+00 RT (FUTURE SLOPED CURB HMA)
1435 FT - UNDERDRAIN SUBGRADE, 6 INCH
20 FT - UNDERDRAIN OUTLET, 6 INCH
2 EA - UNDERDRAIN, OUTLET ENDING, 6 INCH
20 SYD - RIPRAP, PLAIN (10 SYD PER OUTLET ENDING)

STA. 49+00 - 50+00 LT & RT (FUTURE SLOPED CURB HMA)
1400 FT - UNDERDRAIN SUBGRADE, 6 INCH
20 FT - UNDERDRAIN OUTLET, 6 INCH
2 EA - UNDERDRAIN, OUTLET ENDING, 6 INCH
20 SYD - RIPRAP, PLAIN (10 SYD PER OUTLET ENDING)

STA. 45+40 - SUSPEND RECONSTRUCTION
58 SYD - PAVEMENT REMOVAL (PAID UNDER STATION GRADING)

STA. 48+40 - RESUME RECONSTRUCTION
34 SYD - PAVEMENT REMOVAL (PAID UNDER STATION GRADING)

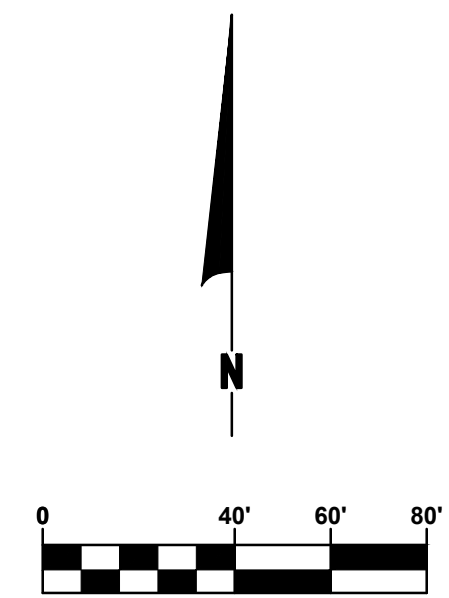
02-026-004-20
RUONA RAMON L & ARLENE
860 BITTERSWEET DR
NORTHBROOK, IL 60062

02-023-014-00
MACYAUSKI PAUL
6371 104TH AVE
SOUTH HAVEN, MI 49090
PROPERTY OWNER
WANTS FILL

CAUTION: UNDERGROUND COMMUNICATIONS UTILITIES

STA. 40+00 FOR CONTINUATION

STA. 50+00 FOR CONTINUATION

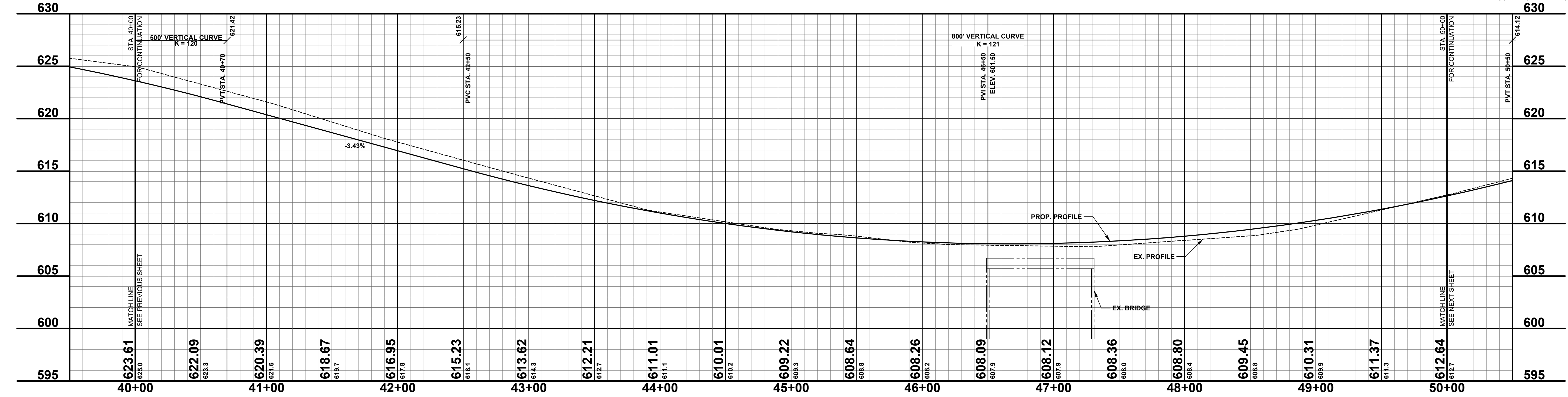


LEGEND

- REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CLASS II TO A DEPTH OF 6". AS DIRECTED BY THE ENGINEER IN THE FIELD, PAID FOR AS APPROACH, CL II BY THE TON.
- SAW/CUT AND REMOVE EXISTING HMA PAVEMENT. REGRADE EXISTING DRIVE OR APPROACH AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 4EL (LEVELING); AND 165#/SYD HMA, 4EL (TOP) - (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE)
- SAW/CUT AND REMOVE EXISTING CONCRETE PAVEMENT. REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 4EL (LEVELING); AND 165#/SYD HMA, 4EL (TOP) - (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE)

REVISIONS

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104TH AVENUE RECONSTRUCTION PROJECT
CASCO TOWNSHIP - 65TH STREET TO 62ND STREET

PLAN & PROFILE - STA. 40+00 TO STA. 50+00

DRAWN BY: ACW
REVIEWED BY: RK
DATE: MAY 2023
SCALE: 1" = 40'H, 5'V

**Board of County Road Commissioners
Of Allegan County**

1308 LINCOLN ROAD
ALLEGAN, MICHIGAN 49010-9762
www.alleganroads.org
TELEPHONE (269) 673-2184 FAX (269) 673-5922

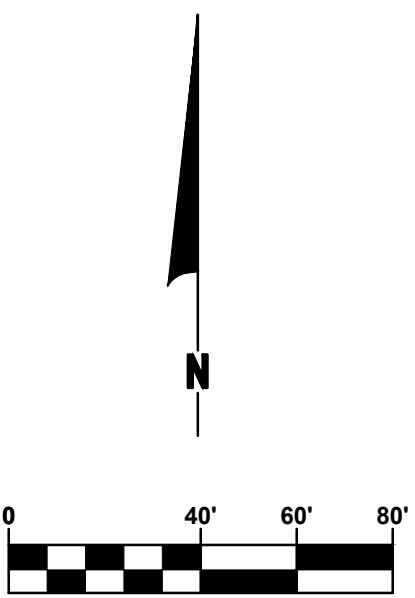
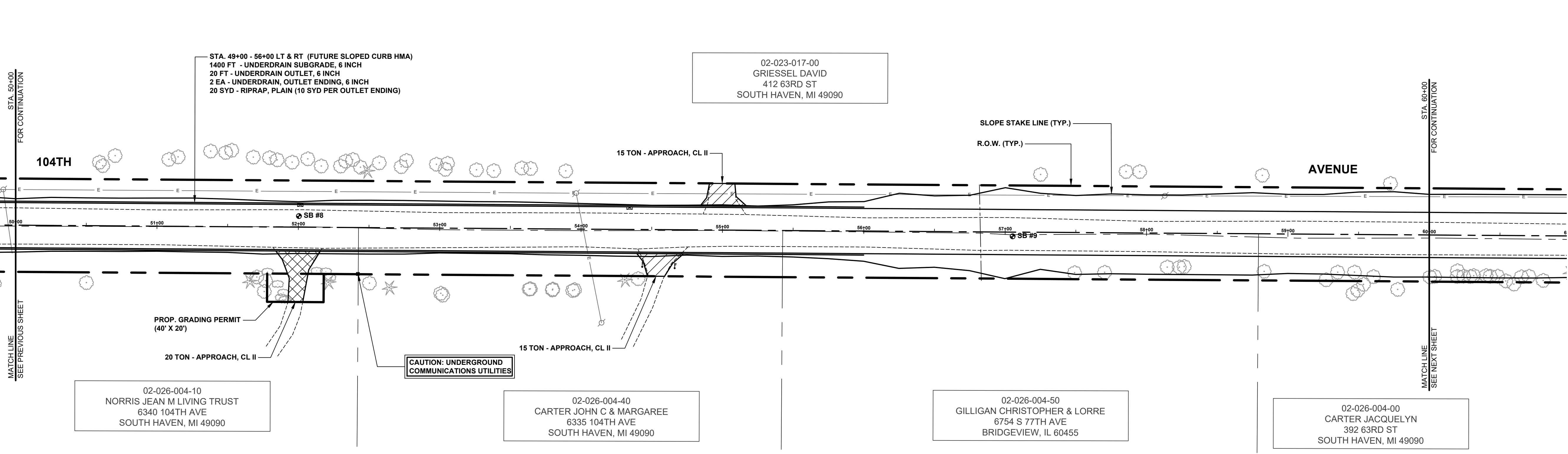
SOIL BORINGS

SB #8	0 - 11" BROWN MEDIUM SAND & FINE TO COARSE GRAVEL
	11" - 33" BROWN FINE TO MEDIUM SAND
	33" - 60" BROWN SANDY CLAY
	60" END OF BORING
SB #9	0 - 6" BROWN MEDIUM SAND, SOME FINE TO COARSE GRAVEL
	6" - 19" DARK BROWN SILTY, CLAYEY FINE SAND, TRACE TOPSOIL
	19" - 42" BROWN SILTY FINE SAND
	42" - 72" BROWN FINE SAND
	72" - 120" LIGHT BROWN MEDIUM SAND, SOME FINE TO COARSE GRAVEL
	120" END OF BORING

- 50+59.12" TREE 45.0'
- 50+61.6" TREE 42.5'
- 50+70.6" TREE 49.7'
- 51+08.6" TREE 47.3'
- 51+15.6" TREE 49.1'
- 51+32.21" OAK 53.4'
- 51+49.24" OAK 52.5'
- 51+52.27" OAK 54.1'
- 51+66.6" TREE 49.3'
- 51+78.6" TREE 49.0'
- 51+88.6" TREE 47.5'
- 51+93.9" TREE 45.9'
- 51+93.9" TREE 45.9'
- 52+06.6" TREE 48.4'
- 52+16.15" TREE 43.3'
- 52+30.6" TREE 43.4'
- 52+33.15" TREE 45.1'
- 52+33.15" TREE 45.1'
- 52+44.6" TREE 42.7'
- 52+49.3" PINE 40.2'
- 52+51.6" TREE 45.9'
- 52+51.6" TREE 45.9'
- 52+76.6" TREE 43.9'
- 52+76.6" TREE 47.7'
- 52+97.6" TREE 45.1'
- 53+06.6" TREE 41.6'
- 53+06.6" TREE 41.6'
- 53+06.6" TREE 40.9'
- 53+26.6" TREE 41.4'
- 53+38.6" TREE 40.9'
- 53+58.9" TREE 42.9'
- 53+64.15" TREE 42.6'
- 53+88.6" TREE 41.1'
- 53+96 POWER POLE 25.4'
- 56+92.30" CONC 33.3'
- 57+25.12" BEECH 40.9'
- 57+85.12" BEECH 43.4'
- 57+95.12" BEECH 43.4'
- 58+13 POWER POLE 26.4'
- 58+82.27" TREE 41.4'
- 59+72.21" MAPLE 36.2'

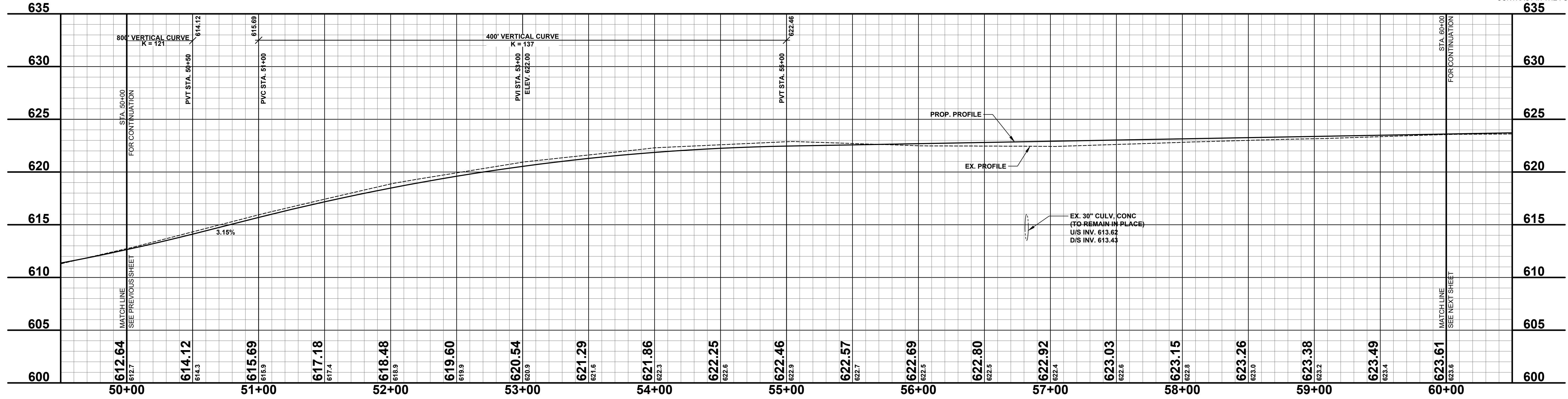
STA. 49+00 - 56+00 LT & RT (FUTURE SLOPED CURB HMA)
 1400 FT. - UNDERDRAIN SUBGRADE 6 INCH
 20 FT. - UNDERDRAIN OUTLET, 6 INCH
 2 EA - UNDERDRAIN, OUTLET ENDING, 6 INCH
 20 SYD - RIPRAP, PLAIN (10 SYD PER OUTLET ENDING)

02-023-017-00
 GRIESEL DAVID
 412 63RD ST
 SOUTH HAVEN, MI 49090



LEGEND

- REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CLASS II TO A DEPTH OF 6". AS DIRECTED BY THE ENGINEER IN THE FIELD, PAID FOR AS APPROACH, CL II BY THE TON.
- SAW/CUT AND REMOVE EXISTING HMA PAVEMENT. REGRADE EXISTING DRIVE OR APPROACH AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 4EL (LEVELING); AND 165#/SYD HMA, 4EL (TOP) - (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE)
- SAW/CUT AND REMOVE EXISTING CONCRETE PAVEMENT. REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 4EL (LEVELING); AND 165#/SYD HMA, 4EL (TOP) - (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE)



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 ALLEGAN, MICHIGAN 49010-9762
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REVISIONS

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104TH AVENUE RECONSTRUCTION PROJECT
 CASCO TOWNSHIP - 65TH STREET TO 62ND STREET

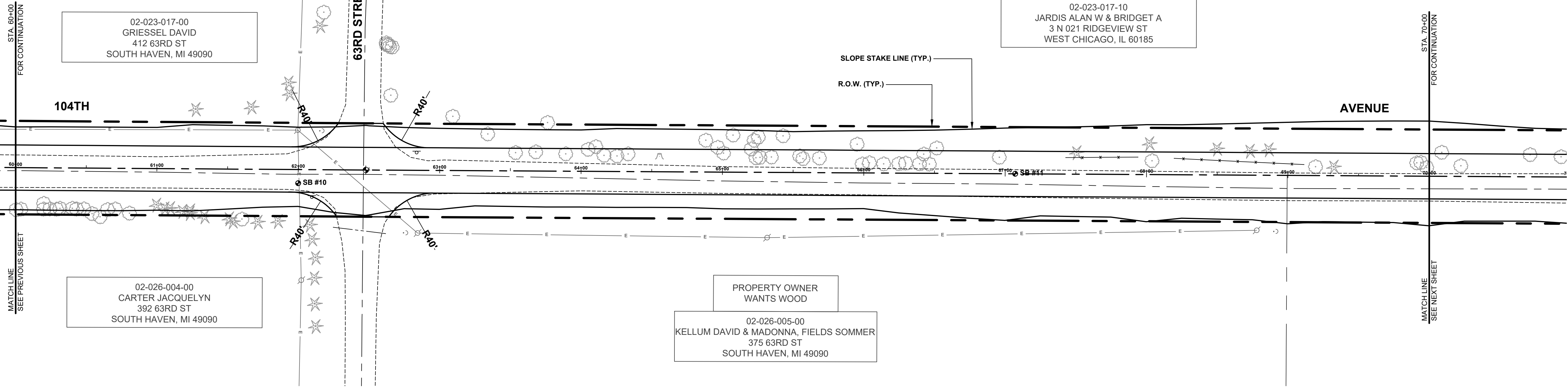
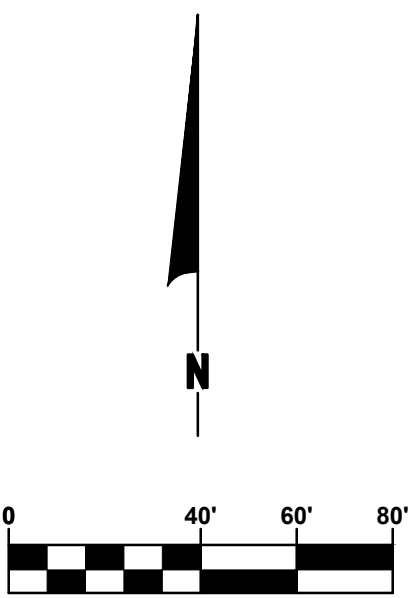
PLAN & PROFILE - STA. 50+00 TO STA. 60+00

DRAWN BY: ACW
 REVIEWED BY: RK
 DATE: MAY 2023
 SCALE: 1"= 40'H, 5V

LH 400123 7

SB #10	0 - 6"	BROWN MEDIUM SAND, SOME FINE TO COARSE GRAVEL
	6" - 24"	DARK BROWN FINE SAND, BRICKS, GLASS
	24" - 60"	BROWN SILTY FINE SAND
	60"	END OF BORING

SB #11	0 - 9"	BROWN MEDIUM SAND & FINE TO COARSE GRAVEL
	9" - 19"	DARK BROWN FINE SAND, TRACE CLAY, TRACE TOPSOIL
	19" - 60"	BROWN FINE SAND
	60"	END OF BORING

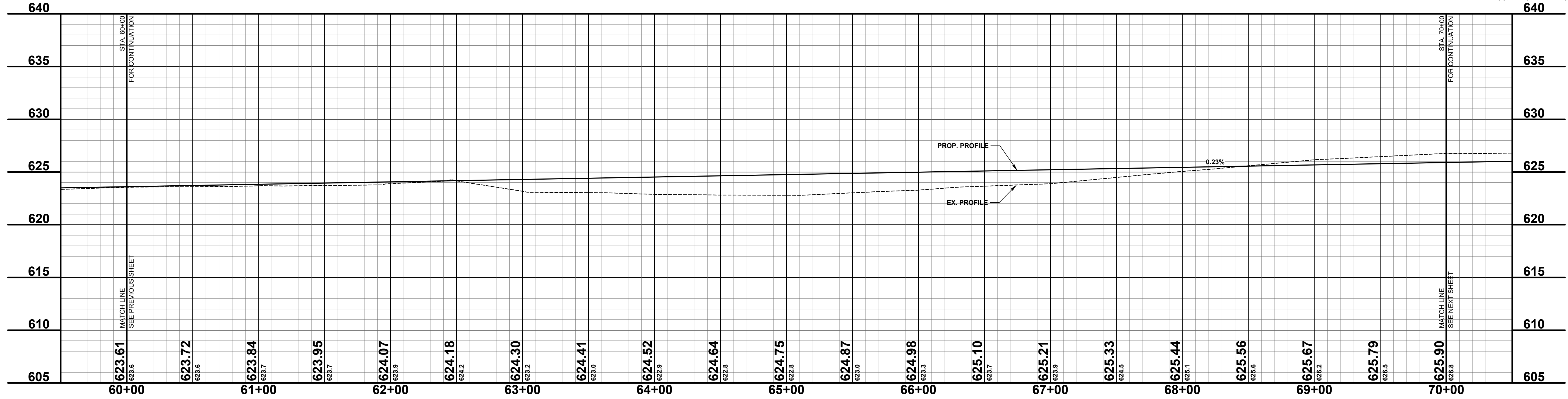


- 60+44 5" TREE 28.9" - REMOVE
- 60+44 5" TREE 25.3" - REMOVE
- 60+20 9" TREE 29.2" - REMOVE
- 60+20 9" TREE 24.2" - REMOVE
- 60+24 5" TREE 29.0" - REMOVE
- 60+24 5" TREE 25.0" - REMOVE
- 60+32 5" TREE 26.5" - REMOVE
- 60+40 5" TREE 28.5" - REMOVE
- 60+40 5" TREE 24.5" - REMOVE
- 60+48 9" TREE 29.9" - REMOVE
- 60+48 9" TREE 25.9" - REMOVE
- 60+54 9" TREE 32.2" - REMOVE
- 60+50 12" CHERRY 10.7" - REMOVE
- 60+71 6" TREE 24.8" - REMOVE
- 60+81 12" CHERRY 31.7" - REMOVE
- 60+89 6" PINE 25.9" - REMOVE
- 61+05 6" PINE 27.8" - REMOVE
- 61+05 6" PINE 27.8" - REMOVE
- 61+18 5" PINE 29.8" - REMOVE
- 61+23 5" PINE 31.3" - REMOVE
- 61+24 5" PINE 33.3" - REMOVE
- 61+34 15" PINE 35.9" - REMOVE
- 61+44 6" PINE 9.4" - REMOVE
- 61+54 15" PINE 37.0" - REMOVE
- 61+60 15" TREE 35.3" - REMOVE
- 61+71 15" PINE 37.1" - REMOVE
- 61+86 12" PINE 36.5" - REMOVE
- 62+03 POWER POLE 79.2" - REMOVE
- 62+08 15" PINE 39.9" - REMOVE
- 62+10 SIGN STOP 19.4" - RELOCATE
- 62+12 18" PINE 78.4" - REMOVE
- 62+12 24" PINE 84.7" - REMOVE
- 62+12 18" PINE 62.0" - REMOVE
- 62+25 18" CYP 40.9" - REMOVE
- 62+62 18" CPP 44.8" - REMOVE
- 62+75 GUY WIRE 44.2" - REMOVE
- 62+85 POWER POLE 44.3" - REMOVE
- 62+90 TRANSFORMER 43.7" - REMOVE
- 65+32 POWER POLE 46.2" - REMOVE

- 61+27 12" PINE 42.2" - REMOVE
- 61+65 15" PINE 44.0" - REMOVE
- 61+76 GP NO TRESSPASS 30.8" - REMOVE
- 61+83 18" PINE 61.4" - REMOVE
- 61+83 15" PINE 53.7" - REMOVE
- 61+89 POWER POLE 27.9" - REMOVE
- 62+15 GUY WIRE 27.5" - REMOVE
- 62+62 9" CHERRY 89.9" - REMOVE
- 62+62 9" CHERRY 88.7" - REMOVE
- 62+62 9" CHERRY 87.2" - REMOVE
- 62+62 9" CHERRY 87.4" - REMOVE
- 62+65 27" CHERRY 52.9" - REMOVE
- 62+66 9" CHERRY 87.0" - REMOVE
- 62+66 SIGN STOP 12.5" - REMOVE
- 63+08 6" TREE 38.3" - REMOVE
- REMOVE - 63+34 6" TREE 26.0" - REMOVE
- REMOVE - 63+64 18" TREE 12.9" - REMOVE
- REMOVE - 63+68 9" TREE 13.5" - REMOVE
- REMOVE - 63+76 48" TREE 24.3" - REMOVE
- REMOVE - 63+89 12" TREE 12.2" - REMOVE
- REMOVE - 64+05 12" TREE 15.5" - REMOVE
- REMOVE - 64+10 12" TREE 17.4" - REMOVE
- REMOVE - 64+16 12" TREE 11.3" - REMOVE
- REMOVE - 64+25 12" TREE 11.0" - REMOVE
- REMOVE - 64+33 12" TREE 12.4" - REMOVE
- REMOVE - 64+55 36" STUMP 11.0" - REMOVE
- REMOVE - 64+88 6" TREE 22.4" - REMOVE
- REMOVE - 64+97 6" TREE 17.5" - REMOVE
- REMOVE - 65+01 6" TREE 13.4" - REMOVE
- REMOVE - 65+07 6" TREE 26.2" - REMOVE
- REMOVE - 65+20 12" TREE 16.4" - REMOVE
- REMOVE - 65+22 12" TREE 22.5" - REMOVE
- REMOVE - 65+24 18" TREE 10.2" - REMOVE
- REMOVE - 65+25 18" TREE 10.6" - REMOVE
- REMOVE - 65+35 27" TREE 10.8" - REMOVE
- REMOVE - 65+45 32" TREE 11.8" - REMOVE
- REMOVE - 65+45 32" TREE 11.8" - REMOVE
- REMOVE - 65+49 9" TREE 10.3" - REMOVE
- REMOVE - 65+95 15" TREE 20.2" - REMOVE
- REMOVE - 65+99 9" TREE 6.3" - REMOVE
- REMOVE - 66+04 9" TREE 7.1" - REMOVE
- REMOVE - 66+14 9" TREE 6.9" - REMOVE
- REMOVE - 66+25 9" TREE 6.7" - REMOVE
- REMOVE - 66+30 9" TREE 7.1" - REMOVE
- REMOVE - 66+39 9" TREE 6.7" - REMOVE
- REMOVE - 66+43 9" TREE 9.5" - REMOVE
- REMOVE - 66+51 9" TREE 7.9" - REMOVE
- REMOVE - 66+51 9" TREE 7.9" - REMOVE
- REMOVE - 66+59 9" TREE 10.3" - REMOVE
- REMOVE - 66+99 9" TREE 6.3" - REMOVE
- REMOVE - 66+04 9" TREE 7.1" - REMOVE
- REMOVE - 66+14 9" TREE 6.9" - REMOVE
- REMOVE - 66+25 9" TREE 6.7" - REMOVE
- REMOVE - 66+30 9" TREE 7.1" - REMOVE
- REMOVE - 66+39 9" TREE 6.7" - REMOVE
- REMOVE - 66+43 9" TREE 9.5" - REMOVE
- REMOVE - 66+51 9" TREE 7.9" - REMOVE
- REMOVE - 66+51 9" TREE 7.9" - REMOVE
- REMOVE - 66+59 9" TREE 10.3" - REMOVE
- RELOCATE - 67+43 FENCE WOOD 11.7" - REMOVE
- RELOCATE - 67+50 15" PINE 15.9" - REMOVE
- RELOCATE - 67+94 FENCE 4' 12.3" - REMOVE
- RELOCATE - 68+02 12" PINE 22.1" - REMOVE
- RELOCATE - 68+04 27" CHERRY 9.8" - REMOVE
- RELOCATE - 68+19 FENCE WOOD 11.6" - REMOVE
- REMOVE - 68+50 12" PINE 18.7" - REMOVE
- REMOVE - 68+73 12" PINE 17.2" - REMOVE
- REMOVE - 68+85 12" PINE 16.3" - REMOVE
- RELOCATE - 69+11 FENCE 4' 7.7" - REMOVE
- RELOCATE - 69+20 21" TRI 6.2" - REMOVE
- REMOVE - 69+32 12" PINE 6.4" - REMOVE
- REMOVE - 69+31 15" CHERRY 9.4" - REMOVE
- REMOVE - 69+34 15" CHERRY 9.7" - REMOVE
- REMOVE - 69+89 12" MAPLE 6.2" - REMOVE

LEGEND

- REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CLASS II TO A DEPTH OF 6". AS DIRECTED BY THE ENGINEER IN THE FIELD, PAID FOR AS APPROACH, CL II BY THE TON.
- SAWCUT AND REMOVE EXISTING HMA PAVEMENT, REGRADE EXISTING DRIVE OR APPROACH AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 4EL (LEVELING); AND 165#/SYD HMA, 4EL (TOP) - (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE)
- SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT, REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 4EL (LEVELING); AND 165#/SYD HMA, 4EL (TOP) - (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE)



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TELEPHONE (269) 673-2184

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104TH AVENUE RECONSTRUCTION PROJECT
CASCO TOWNSHIP - 65TH STREET TO 62ND STREET
PLAN & PROFILE - STA. 60+00 TO STA. 70+00

DRAWN BY: ACW
REVIEWED BY: RK
DATE: MAY 2023
SCALE: 1"= 40'H, 5'V

SB #12	SOIL BORINGS
0 - 6"	BROWN MEDIUM SAND, SOME FINE TO COARSE GRAVEL
6" - 24"	DARK BROWN FINE SAND, TRACE CLAY & FINE GRAVEL
24" - 42"	BROWN SLIGHTLY SILTY & CLAYEY FINE SAND
42" - 60"	BROWN FINE SAND
60"	END OF BORING

SB #13	SOIL BORINGS
0 - 15"	BROWN MEDIUM SAND & FINE TO COARSE GRAVEL
15" - 36"	DARK BROWN TO BLACK CLAYEY FINE SAND
36" - 60"	BROWN FINE TO MEDIUM SAND, TRACE FINE GRAVEL
60"	END OF BORING

REMOVE - 70+09.9" TREE 16.9"
 REMOVE - 70+22.21" TRI 7.5"
 REMOVE - 70+71.15" CHERRY 15.6"
 REMOVE - 70+83.12" TREE 14.3"
 REMOVE - 71+16.18" TREE 8.9"
 REMOVE - 71+19.6" TREE 23.8"
 REMOVE - 71+36.6" TREE 10.2"
 REMOVE - 71+58.6" TREE 9.8"
 REMOVE - 71+69.15" TREE 14.4"
 REMOVE - 71+76.15" TREE 7.4"
 REMOVE - 71+85.12" TREE 30.0"
 REMOVE - 71+88.12" TREE 11.9"
 REMOVE - 71+91.12" TREE 16.0"
 REMOVE - 72+18.9" TREE 8.9"
 REMOVE - 72+22.9" TREE 7.3"
 REMOVE - 72+24.9" TREE 6.0"
 REMOVE - 72+29.9" TREE 8.3"
 REMOVE - 72+33.9" TREE 8.6"
 REMOVE - 72+46.9" TREE 7.5"
 REMOVE - 72+48.9" TREE 22.3"
 REMOVE - 72+64.9" TREE 8.1"
 REMOVE - 72+71.9" TREE 4.5"
 REMOVE - 72+73.9" TREE 12.7"
 REMOVE - 72+80.9" TREE 9.2"
 REMOVE - 72+88.6" TREE 13.2"
 REMOVE - 72+91.6" TREE 10.8"
 REMOVE - 73+13.6" TREE 11.5"
 REMOVE - 73+14.6" TREE 10.5"
 REMOVE - 73+22.12" TREE 10.2"
 REMOVE - 73+36.6" TREE 13.4"
 REMOVE - 73+43.12" TREE 8.5"
 REMOVE - 75+05.6" TREE 11.1"
 REMOVE - 75+60.3" TREE 10.4"
 REMOVE - 74+20.9" TW 9.9"
 REMOVE - 74+39.91" TREE 13.6"
 REMOVE - 74+44.21" STUMP 9.5"
 REMOVE - 74+47.12" TREE 13.1"
 REMOVE - 74+81.6" TREE 9.0"
 REMOVE - 74+85.12" CHERRY 14.5"
 REMOVE - 74+88.9" TREE 11.9"
 REMOVE - 74+91.9" TREE 23.9"
 REMOVE - 75+02.12" TREE 14.4"
 REMOVE - 75+02.12" TREE 12.9"
 REMOVE - 75+23.6" TREE 12.2"
 REMOVE - 75+37.12" TREE 24.7"
 REMOVE - 75+39.12" TREE 11.8"
 REMOVE - 75+49.12" TREE 14.3"
 REMOVE - 75+56.6" TREE 28.6"
 REMOVE - 75+57.6" TREE 20.2"
 REMOVE - 75+57.6" TREE 20.2"
 REMOVE - 75+90.6" TREE 12.8"
 REMOVE - 75+93.6" TREE 15.1"
 REMOVE - 75+94.15" CHERRY 9.8"
 REMOVE - 76+36.15" TREE 16.9"
 REMOVE - 76+46.6" TREE 13.8"
 REMOVE - 76+70.15" TREE 6.6"
 REMOVE - 76+75.6" TREE 19.2"
 REMOVE - 76+87.18" TREE 13.4"
 REMOVE - 76+92.18" TREE 13.6"
 REMOVE - 77+05.12" TREE 10.2"
 REMOVE - 77+66.48" DEAD TREE 28.1"
 REMOVE - 77+82.6" TREE 21.5"
 REMOVE - 77+99.15" TREE 7.6"
 REMOVE - 77+99.15" TREE 13.0"
 REMOVE - 78+06.15" TREE 18.9"
 REMOVE - 78+19.15" TREE 9.9"
 REMOVE - 78+22.15" TREE 7.5"
 REMOVE - 78+30.15" TREE 12.5"
 REMOVE - 78+32.15" TREE 14.6"
 REMOVE - 78+52.15" TREE 11.2"
 REMOVE - 78+54.15" TREE 11.6"
 REMOVE - 79+79.6" TREE 18.1"
 REMOVE - 79+28.15" TREE 7.7"
 REMOVE - 79+28.15" TREE 10.2"
 REMOVE - 79+36.9" TREE 15.8"
 REMOVE - 79+58.9" TREE 10.5"
 REMOVE - 79+66.9" TREE 25.7"
 REMOVE - 79+68.9" TREE 24.9"
 REMOVE - 79+80.9" TREE 9.6"
 REMOVE - 79+82.9" TREE 15.6"
 REMOVE - 79+84.9" TREE 16.7"

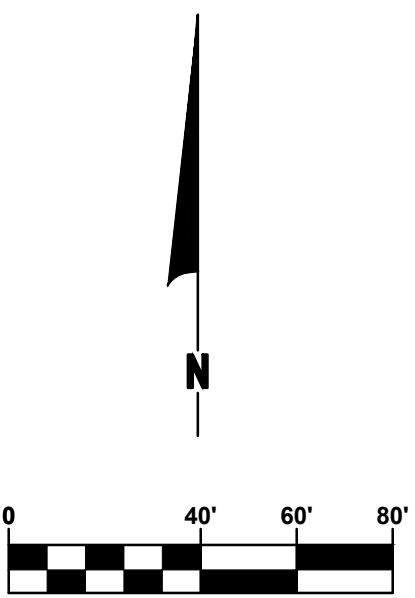
02-023-017-10
 JARDIS ALAN W & BRIDGET A
 3 N 021 RIDGEVIEW ST
 WEST CHICAGO, IL 60185

SLOPE STAKE LINE (TYP.)
 R.O.W. (TYP.)

PROPERTY OWNER WANTS WOOD
 02-026-005-10
 FIELDS NATHANIEL & SOMMER
 6276 104TH AVE
 SOUTH HAVEN, MI 49090

30 FT - CULV, CL F, 12 INCH
 15 TON - APPROACH, CL II

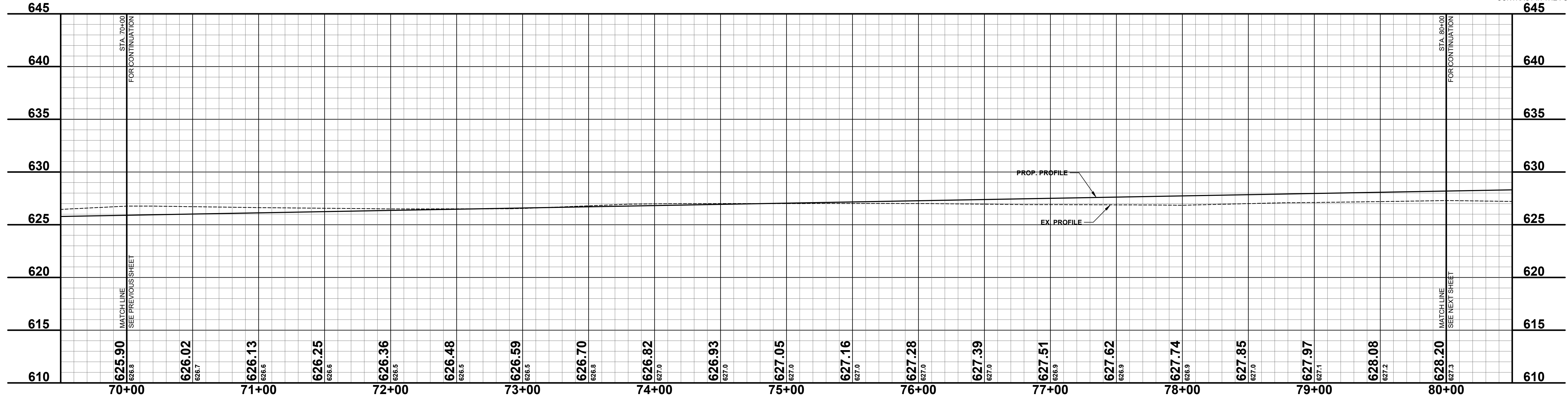
02-026-002-10
 NOWAK JOHN & THERESA
 380 62ND ST
 SOUTH HAVEN, MI 49090



- 71+43.9" TREE 27.6" - REMOVE
- 71+45.9" TREE 27.3" - REMOVE
- 71+52.9" TREE 19.5" - REMOVE
- 72+17.9" TREE 39.2"
- 72+19.9" TREE 34.3"
- 72+21.9" TREE 39.3"
- 72+23.9" TREE 39.3"
- 72+43.9" TREE 31.1" - REMOVE
- 72+51.9" TREE 31.5" - REMOVE
- 73+39.9" PINE 30.7" - REMOVE
- 73+49.9" PINE 35.2"
- 73+55.9" PINE 20.1" - REMOVE
- 74+18.15" TW 40.9"
- 74+24.6" PINE 29.8" - REMOVE
- 74+42.6" PINE 33.1" - REMOVE
- 74+49.6" PINE 29.9" - REMOVE
- 74+53.6" PINE 34.4"
- 74+66.0" PINE 33.2"
- 74+69.12" CPP 23.9" - REMOVE
- 74+85.0" PINE 59.8"
- 74+93.12" CPP 23.1" - REMOVE
- 75+01.6" CHERRY 37.4"
- 75+41.15" TREE 28.7" - REMOVE
- 76+46.9" CHERRY 29.2" - REMOVE
- 76+70.15" CHERRY 22.0" - REMOVE
- 76+81.9" TREE 37.5"
- 76+89.9" TREE 29.6" - REMOVE
- 76+99.9" TREE 32.3" - REMOVE
- 76+46.9" TREE 43.0"
- 76+56.9" TREE 31.1" - REMOVE
- 76+63.9" TREE 36.4"
- 76+68.9" TREE 30.5" - REMOVE
- 76+78.6" TREE 26.1" - REMOVE
- 76+85.27" CHERRY 35.5"
- 77+37.15" TRI 24.9" - REMOVE
- 77+86.15" TREE 35.7"
- 78+16.15" TREE 31.1" - REMOVE
- 78+18.15" TREE 30.9" - REMOVE
- 78+20.15" TREE 32.4" - REMOVE
- 78+23.15" TREE 32.4" - REMOVE
- 78+40.9" TREE 32.3" - REMOVE
- 78+42.9" TREE 37.8" - REMOVE
- 78+50.9" TREE 28.8" - REMOVE
- 78+59.9" TREE 31.1" - REMOVE
- 78+63.9" TREE 29.9" - REMOVE
- 78+77.9" TREE 34.5"
- 78+88.21" TRI 32.2" - REMOVE
- 79+18.15" TREE 22.6" - REMOVE
- 79+25.15" TREE 40.6"
- 79+41.9" TREE 33.0" - REMOVE
- 79+52.12" TREE 28.8" - REMOVE
- 79+56.42" CHERRY 28.3" - REMOVE
- 79+64.9" TREE 43.9"
- 79+81.9" TREE 44.5"
- 79+89.9" TREE 26.6" - REMOVE

LEGEND

- REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CLASS II TO A DEPTH OF 6". AS DIRECTED BY THE ENGINEER IN THE FIELD, PAID FOR AS APPROACH, CL II BY THE TON.
- SAWCUT AND REMOVE EXISTING HMA PAVEMENT, REGRADE EXISTING DRIVE OR APPROACH AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 4EL (LEVELING); AND 165#/SYD HMA, 4EL (TOP) - (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE)
- SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT, REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 4EL (LEVELING); AND 165#/SYD HMA, 4EL (TOP), (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE)

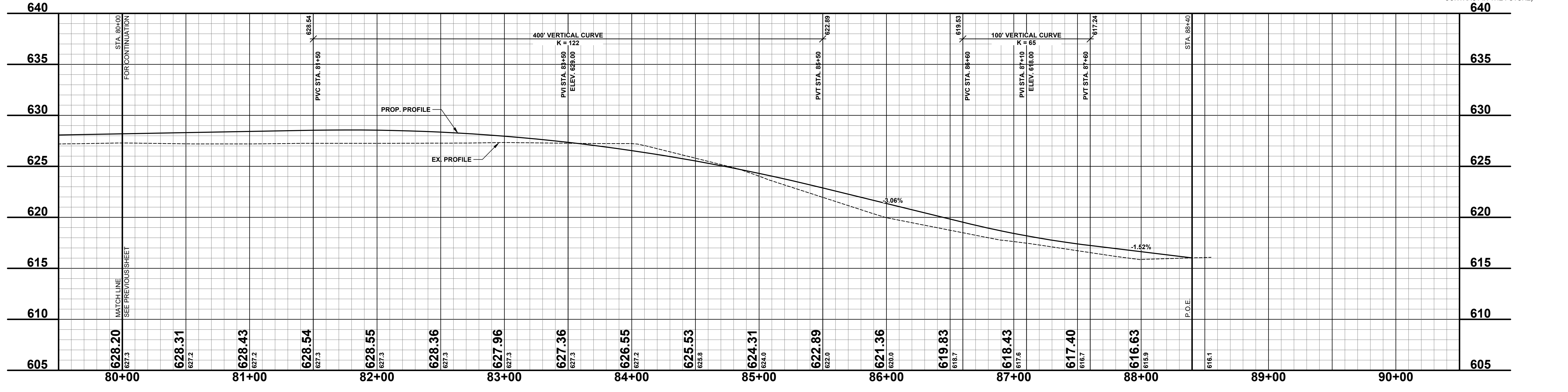
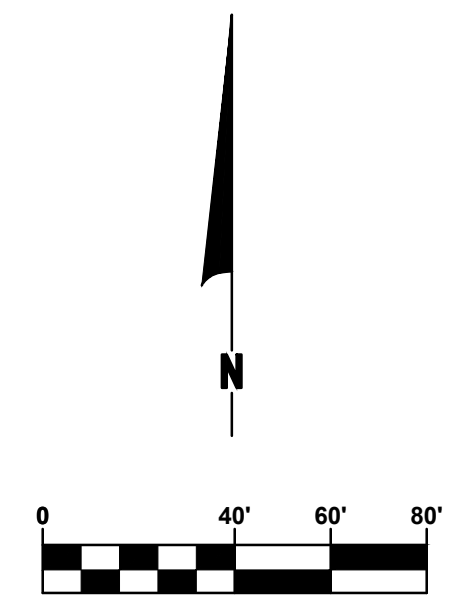
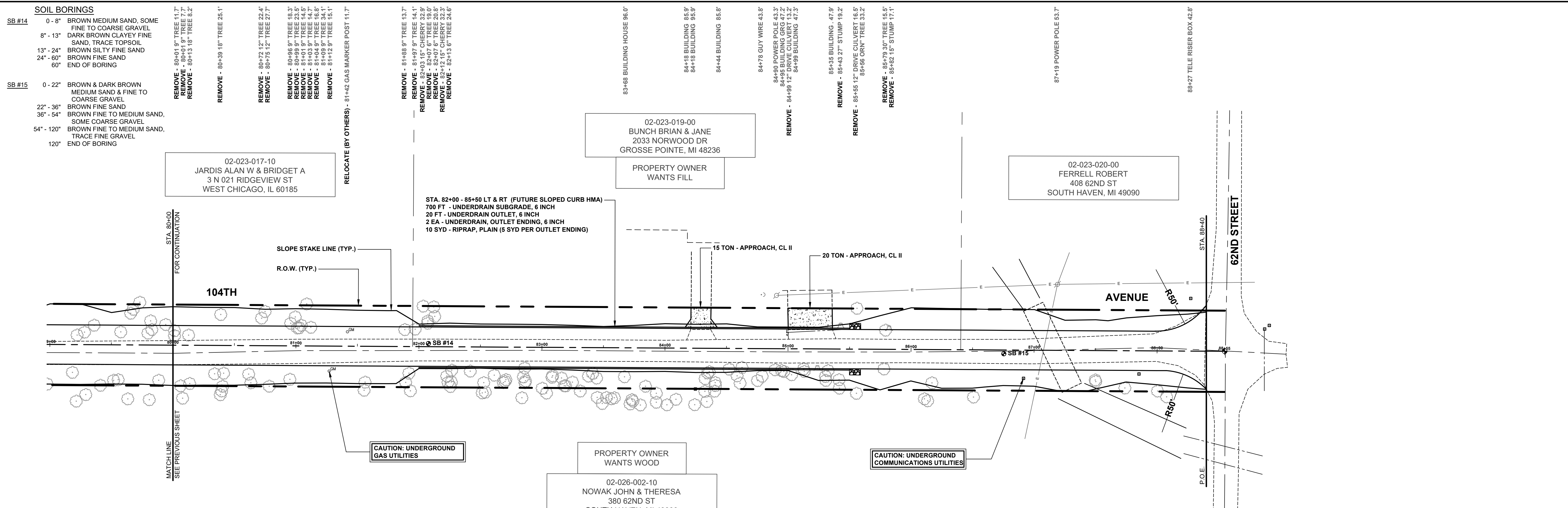


**Board of County Road Commissioners
 Of Allegan County**
 1308 LINCOLN ROAD
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104TH AVENUE RECONSTRUCTION PROJECT
 CASCO TOWNSHIP - 65TH STREET TO 62ND STREET
 PLAN & PROFILE - STA. 70+00 TO STA. 80+00

DRAWN BY: ACW
 REVIEWED BY: RK
 DATE: MAY 2023
 SCALE: 1"= 40'H, 5V



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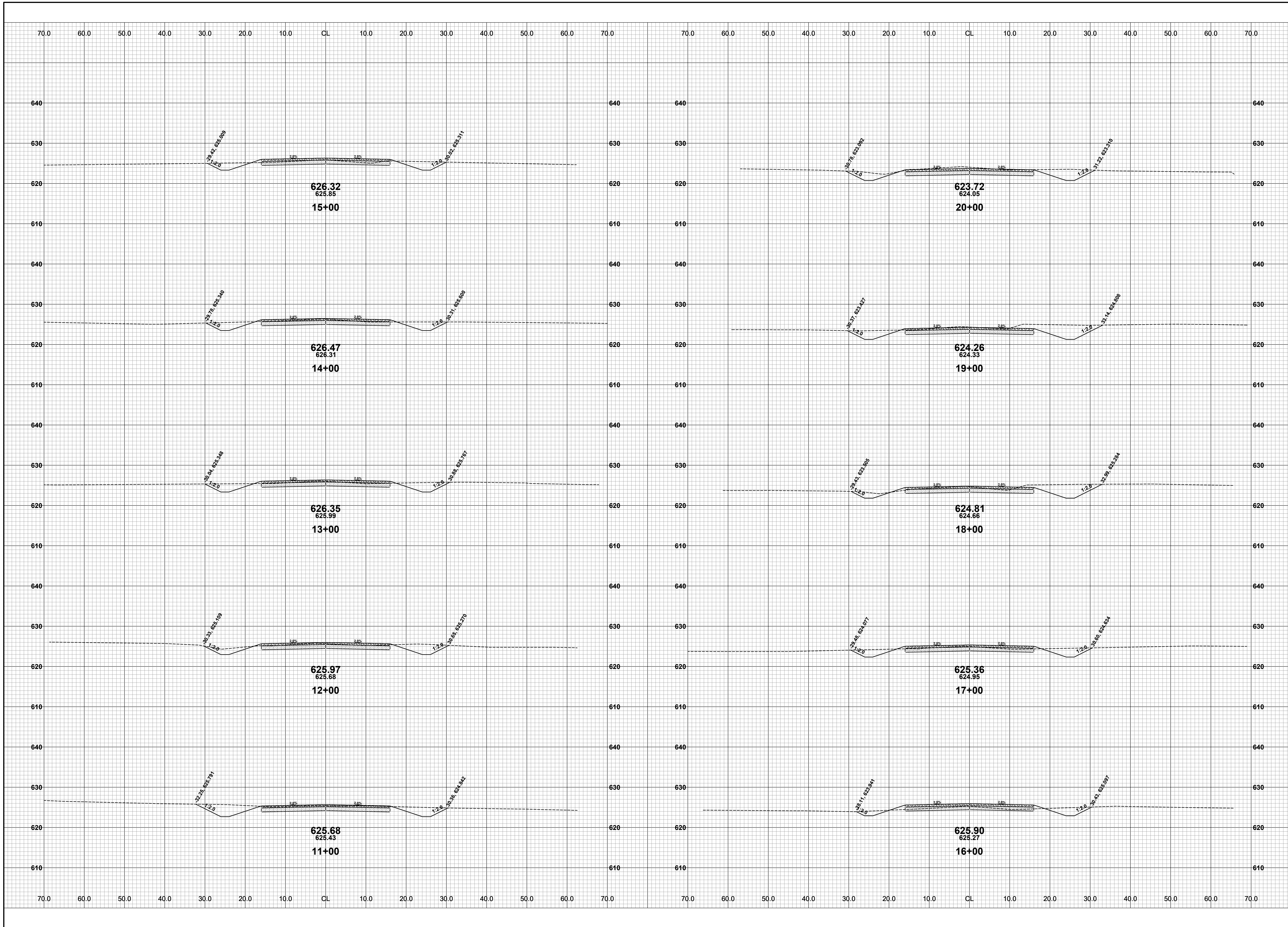
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104TH AVENUE RECONSTRUCTION PROJECT
CASCO TOWNSHIP - 65TH STREET TO 62ND STREET

PLAN & PROFILE - STA. 80+00 TO STA. P.O.E.

DRAWN BY: ACW
REVIEWED BY: RK
DATE: MAY 2023
SCALE: 1"= 40'H, 5'V

LH 400123 10

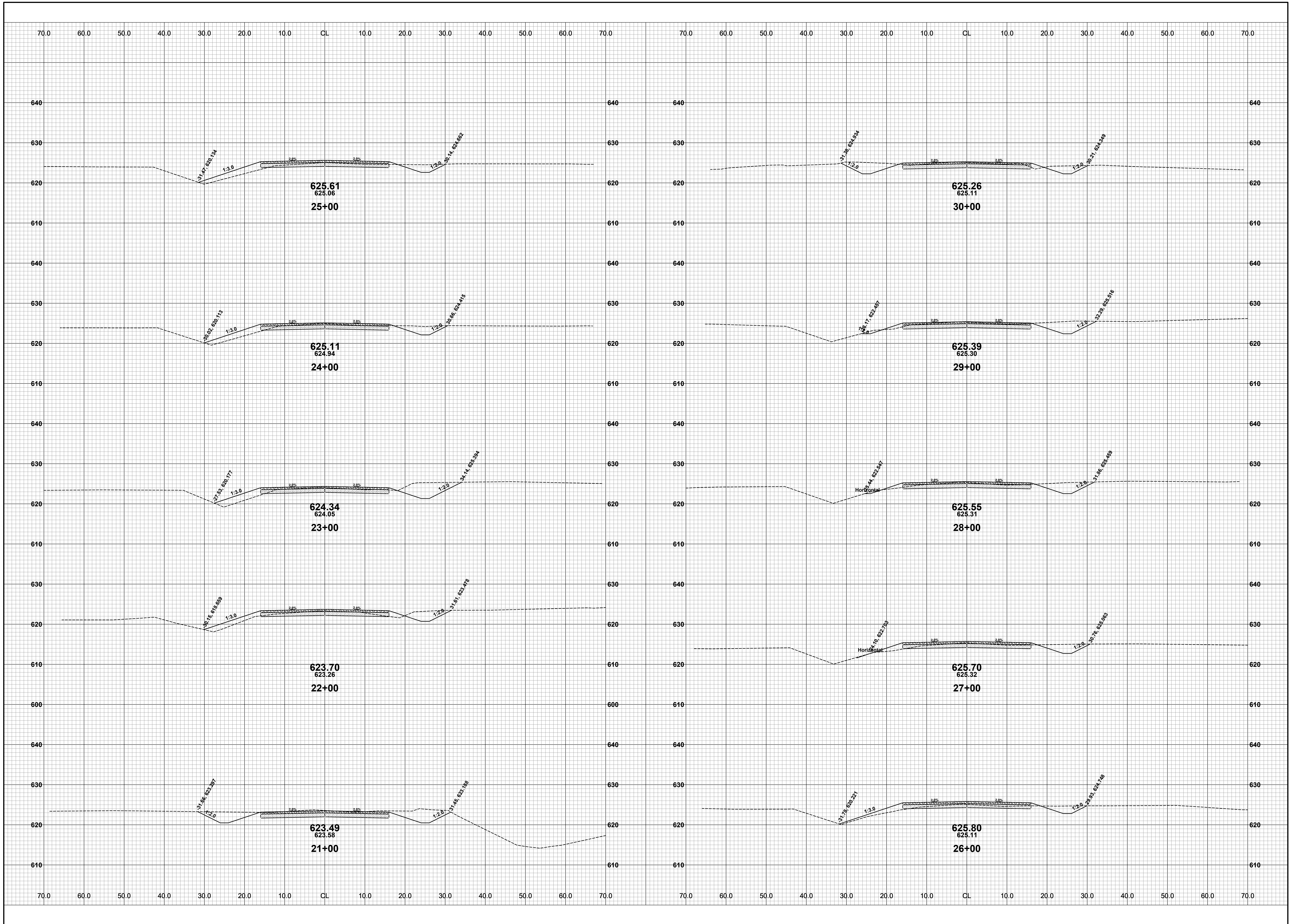


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104TH AVENUE RECONSTRUCTION PROJECT
CASCO TOWNSHIP - 65TH STREET TO 62ND STREET
CROSS SECTIONS - STA. 11+00 TO STA. 20+00

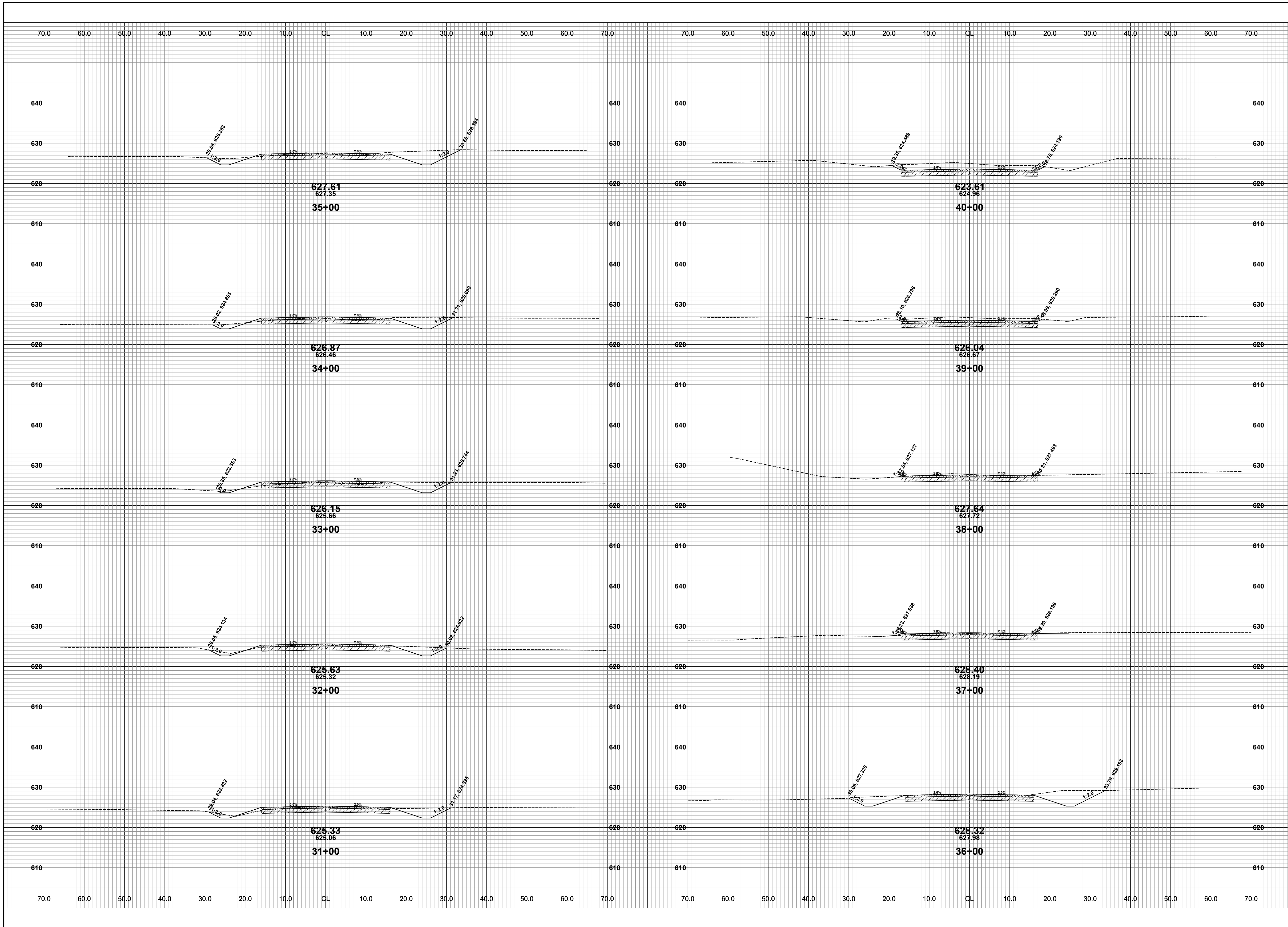
DRAWN BY: ACW
REVIEWED BY: RK
DATE: APRIL 2023
SCALE: 1"= 10'



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104TH AVENUE RECONSTRUCTION PROJECT
CASCO TOWNSHIP - 65TH STREET TO 62ND STREET
CROSS SECTIONS - STA. 21+00 TO STA. 30+00

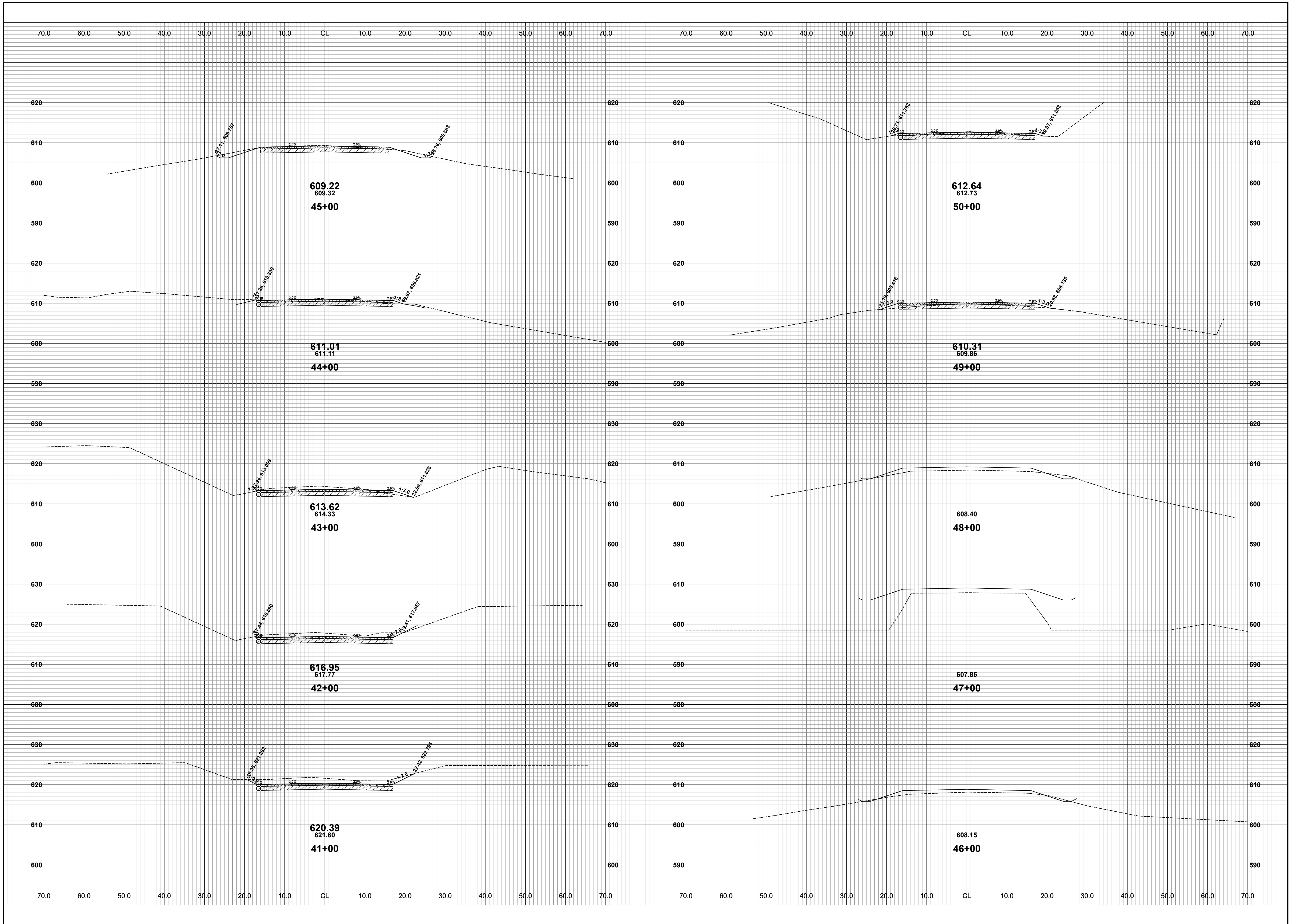
DRAWN BY: ACW
REVIEWED BY: RK
DATE: APRIL 2023
SCALE: 1"= 10'



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104TH AVENUE RECONSTRUCTION PROJECT
CASCO TOWNSHIP - 65TH STREET TO 62ND STREET
CROSS SECTIONS - STA. 31+00 TO STA. 40+00

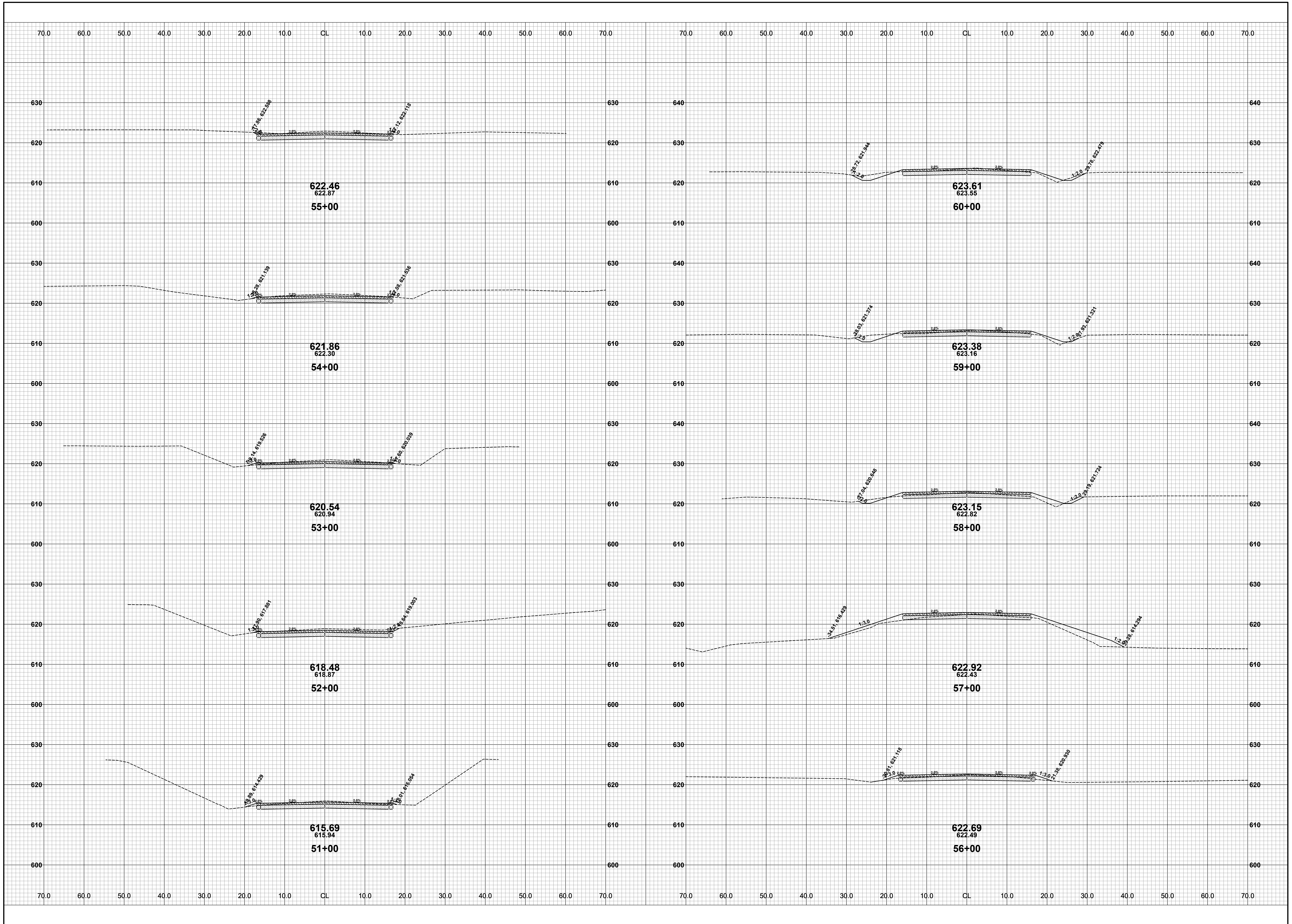
DRAWN BY: ACW
REVIEWED BY: RK
DATE: APRIL 2023
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104TH AVENUE RECONSTRUCTION PROJECT
 CASCO TOWNSHIP - 65TH STREET TO 62ND STREET
 CROSS SECTIONS - STA. 41+00 TO STA. 50+00

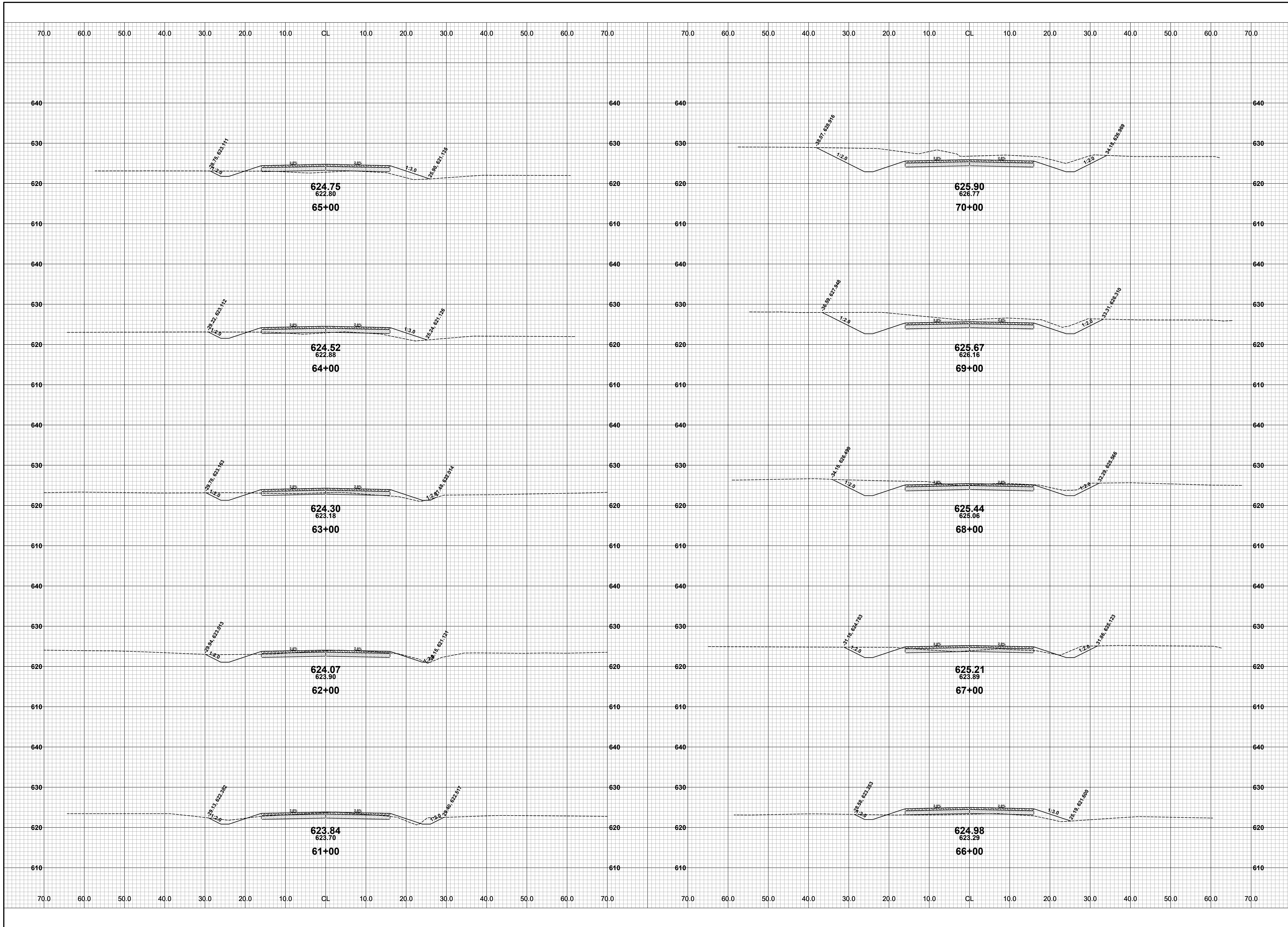
DRAWN BY: ACW
 REVIEWED BY: RK
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 SCALE: 1"= 10'



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104TH AVENUE RECONSTRUCTION PROJECT
CASCO TOWNSHIP - 65TH STREET TO 62ND STREET
CROSS SECTIONS - STA. 51+00 TO STA. 60+00

DRAWN BY: ACW
REVIEWED BY: RK
DATE: APRIL 2023
SCALE: 1"= 10'

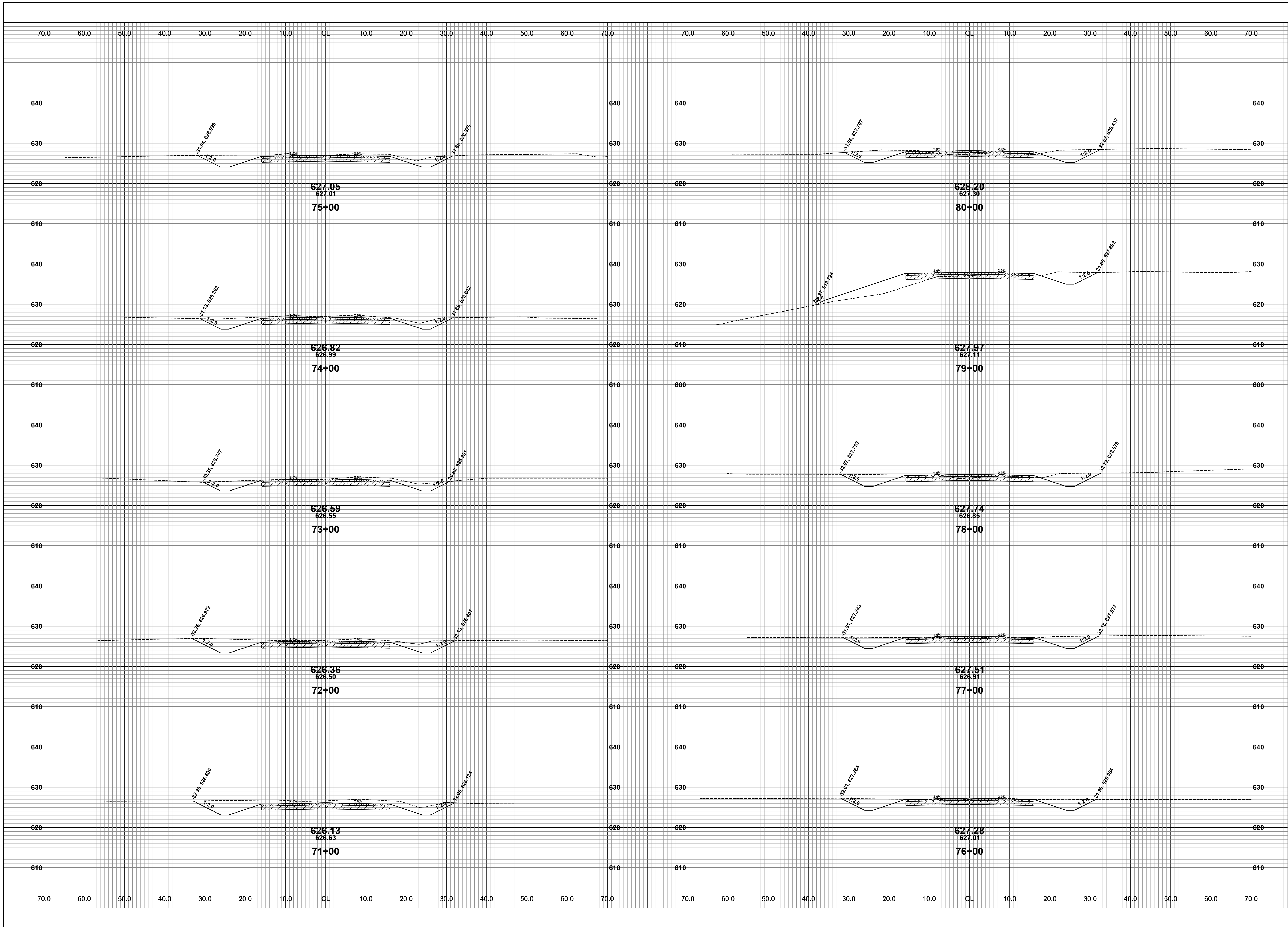


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104TH AVENUE RECONSTRUCTION PROJECT
CASCO TOWNSHIP - 65TH STREET TO 62ND STREET
CROSS SECTIONS - STA. 61+00 TO STA. 70+00

DRAWN BY: ACW
REVIEWED BY: RK
DATE: APRIL 2023
SCALE: 1" = 10'

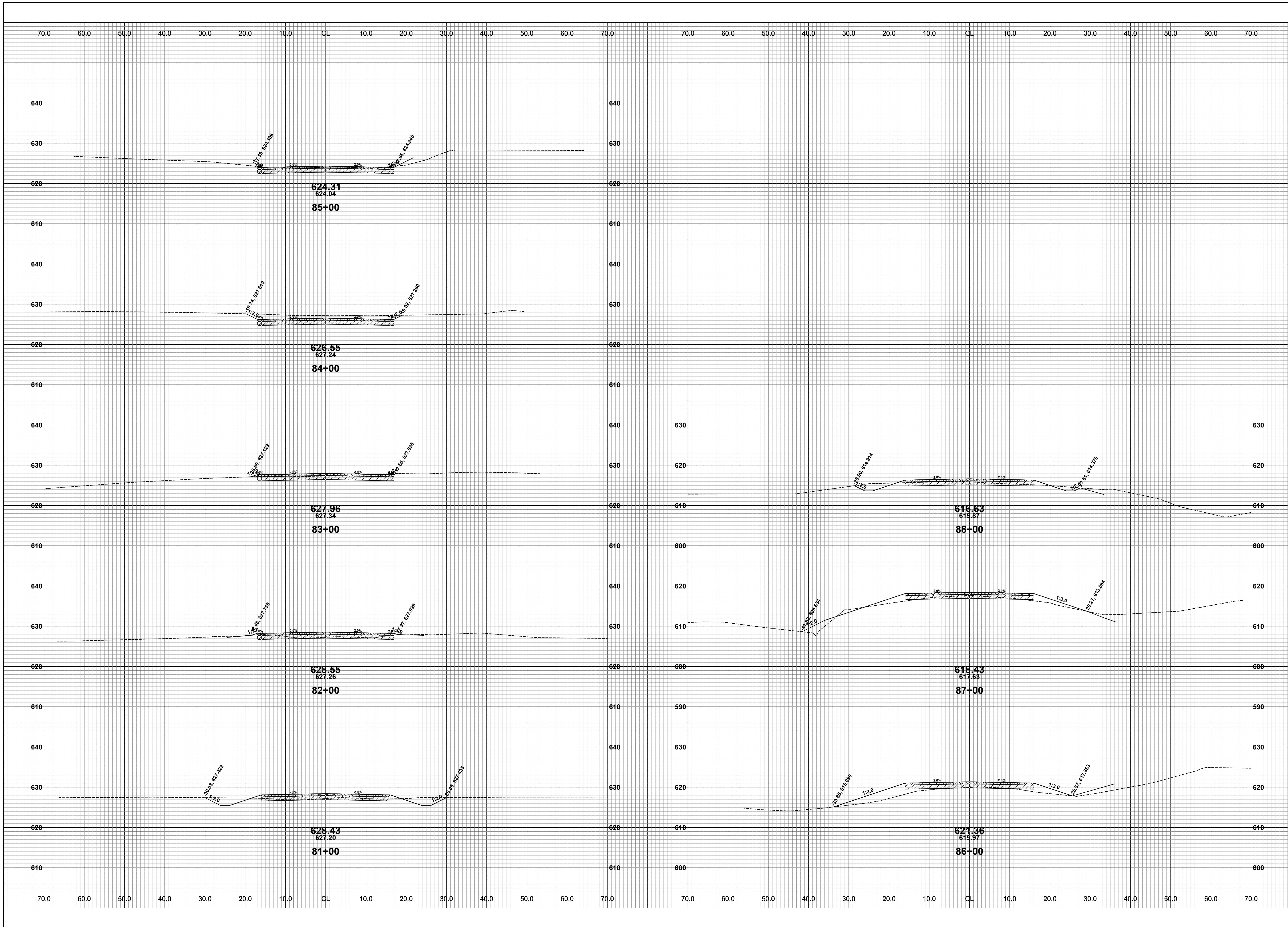


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104TH AVENUE RECONSTRUCTION PROJECT
 CASCO TOWNSHIP - 65TH STREET TO 62ND STREET
 CROSS SECTIONS - STA. 71+00 TO STA. 80+00

DRAWN BY: ACW
 REVIEWED BY: RK
 DATE: APRIL 2023
 SCALE: 1" = 10'

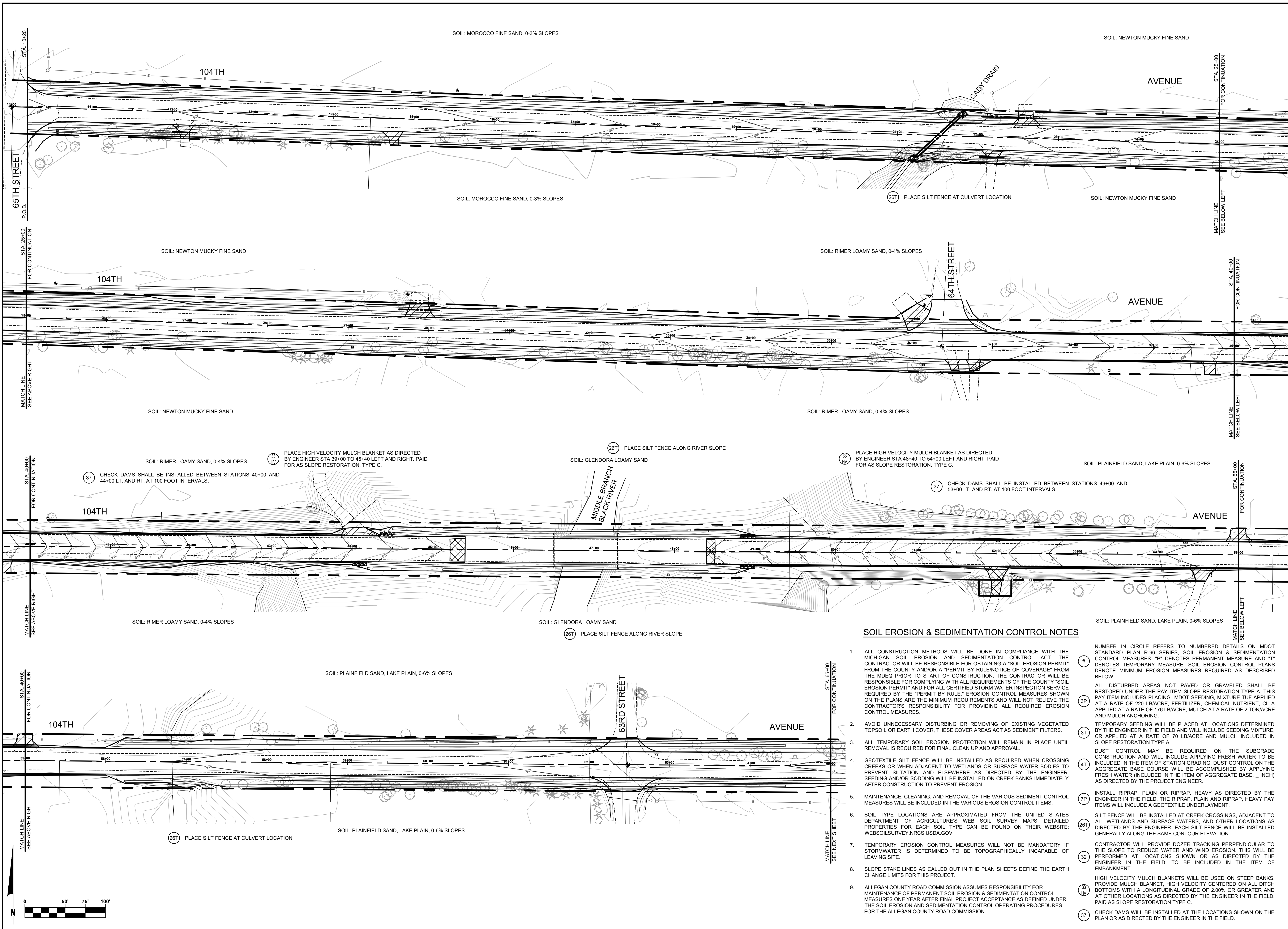


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104TH AVENUE RECONSTRUCTION PROJECT
CASCO TOWNSHIP - 65TH STREET TO 62ND STREET
CROSS SECTIONS - STA. 81+00 TO STA. 88+00

DRAWN BY: ACW
REVIEWED BY: RK
DATE: APRIL 2023
SCALE: 1"= 10'



SOIL EROSION & SEDIMENTATION CONTROL NOTES

1. ALL CONSTRUCTION METHODS WILL BE DONE IN COMPLIANCE WITH THE MICHIGAN SOIL EROSION AND SEDIMENTATION CONTROL ACT. THE CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING A "SOIL EROSION PERMIT" FROM THE COUNTY AND/OR A "PERMIT BY RULE/NOTICE OF COVERAGE" FROM THE MDEQ PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR COMPLYING WITH ALL REQUIREMENTS OF THE COUNTY "SOIL EROSION PERMIT" AND FOR ALL CERTIFIED STORM WATER INSPECTION SERVICE REQUIRED BY THE "PERMIT BY RULE." EROSION CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS AND WILL NOT RELIEVE THE CONTRACTOR'S RESPONSIBILITY FOR PROVIDING ALL REQUIRED EROSION CONTROL MEASURES.
2. AVOID UNNECESSARY DISTURBING OR REMOVING OF EXISTING VEGETATED TOPSOIL OR EARTH COVER. THESE COVER AREAS ACT AS SEDIMENT FILTERS.
3. ALL TEMPORARY SOIL EROSION PROTECTION WILL REMAIN IN PLACE UNTIL REMOVAL IS REQUIRED FOR FINAL CLEAN UP AND APPROVAL.
4. GEOTEXTILE SILT FENCE WILL BE INSTALLED AS REQUIRED WHEN CROSSING CREEKS OR WHEN ADJACENT TO WETLANDS OR SURFACE WATER BODIES TO PREVENT SILTATION AND ELSEWHERE AS DIRECTED BY THE ENGINEER. SEEDING AND/OR SODDING WILL BE INSTALLED ON CREEK BANKS IMMEDIATELY AFTER CONSTRUCTION TO PREVENT EROSION.
5. MAINTENANCE, CLEANING, AND REMOVAL OF THE VARIOUS SEDIMENT CONTROL MEASURES WILL BE INCLUDED IN THE VARIOUS EROSION CONTROL ITEMS.
6. SOIL TYPE LOCATIONS ARE APPROXIMATED FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE'S WEB SOIL SURVEY MAPS. DETAILED PROPERTIES FOR EACH SOIL TYPE CAN BE FOUND ON THEIR WEBSITE: WEBSOILSURVEY.NRCS.USDA.GOV
7. TEMPORARY EROSION CONTROL MEASURES WILL NOT BE MANDATORY IF STORMWATER IS DETERMINED TO BE TOPOGRAPHICALLY INCAPABLE OF LEAVING SITE.
8. SLOPE STAKE LINES AS CALLED OUT IN THE PLAN SHEETS DEFINE THE EARTH CHANGE LIMITS FOR THIS PROJECT.
9. ALLEGAN COUNTY ROAD COMMISSION ASSUMES RESPONSIBILITY FOR MAINTENANCE OF PERMANENT SOIL EROSION & SEDIMENTATION CONTROL MEASURES ONE YEAR AFTER FINAL PROJECT ACCEPTANCE AS DEFINED UNDER THE SOIL EROSION AND SEDIMENTATION CONTROL OPERATING PROCEDURES FOR THE ALLEGAN COUNTY ROAD COMMISSION.

- # NUMBER IN CIRCLE REFERS TO NUMBERED DETAILS ON MDOT STANDARD PLAN R-96 SERIES, SOIL EROSION & SEDIMENTATION CONTROL MEASURES. "P" DENOTES PERMANENT MEASURE AND "T" DENOTES TEMPORARY MEASURE. SOIL EROSION CONTROL PLANS DENOTE MINIMUM EROSION MEASURES REQUIRED AS DESCRIBED BELOW.
- 37 ALL DISTURBED AREAS NOT PAVED OR GRAVELED SHALL BE RESTORED UNDER THE PAY ITEM SLOPE RESTORATION TYPE A. THIS PAY ITEM INCLUDES PLACING MDOT SEEDING, MIXTURE TUF APPLIED AT A RATE OF 220 LB/ACRE, FERTILIZER, CHEMICAL NUTRIENT, CL A APPLIED AT A RATE OF 176 LB/ACRE, MULCH AT A RATE OF 2 TON/ACRE AND MULCH ANCHORING.
- 31 TEMPORARY SEEDING WILL BE PLACED AT LOCATIONS DETERMINED BY THE ENGINEER IN THE FIELD AND WILL INCLUDE SEEDING MIXTURE, CR APPLIED AT A RATE OF 70 LB/ACRE AND MULCH INCLUDED IN SLOPE RESTORATION TYPE A.
- 41 DUST CONTROL MAY BE REQUIRED ON THE SUBGRADE CONSTRUCTION AND WILL INCLUDE APPLYING FRESH WATER TO BE INCLUDED IN THE ITEM OF STATION GRADING. DUST CONTROL ON THE AGGREGATE BASE COURSE WILL BE ACCOMPLISHED BY APPLYING FRESH WATER (INCLUDED IN THE ITEM OF AGGREGATE BASE, INCH) AS DIRECTED BY THE PROJECT ENGINEER.
- 7P INSTALL RIPRAP, PLAIN OR RIPRAP, HEAVY AS DIRECTED BY THE ENGINEER IN THE FIELD. THE RIPRAP, PLAIN AND RIPRAP, HEAVY PAY ITEMS WILL INCLUDE A GEOTEXTILE UNDERLAYMENT.
- 261 SILT FENCE WILL BE INSTALLED AT CREEK CROSSINGS, ADJACENT TO ALL WETLANDS AND SURFACE WATERS, AND OTHER LOCATIONS AS DIRECTED BY THE ENGINEER. EACH SILT FENCE WILL BE INSTALLED GENERALLY ALONG THE SAME CONTOUR ELEVATION.
- 32 CONTRACTOR WILL PROVIDE DOZER TRACKING PERPENDICULAR TO THE SLOPE TO REDUCE WATER AND WIND EROSION. THIS WILL BE PERFORMED AT LOCATIONS SHOWN OR AS DIRECTED BY THE ENGINEER IN THE FIELD, TO BE INCLUDED IN THE ITEM OF EMBANKMENT.
- 33 HIGH VELOCITY MULCH BLANKETS WILL BE USED ON STEEP BANKS. PROVIDE MULCH BLANKET, HIGH VELOCITY CENTERED ON ALL DITCH BOTTOMS WITH A LONGITUDINAL GRADE OF 2.00% OR GREATER AND AT OTHER LOCATIONS AS DIRECTED BY THE ENGINEER IN THE FIELD, PAID AS SLOPE RESTORATION TYPE C.
- 37 CHECK DAMS WILL BE INSTALLED AT THE LOCATIONS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER IN THE FIELD.

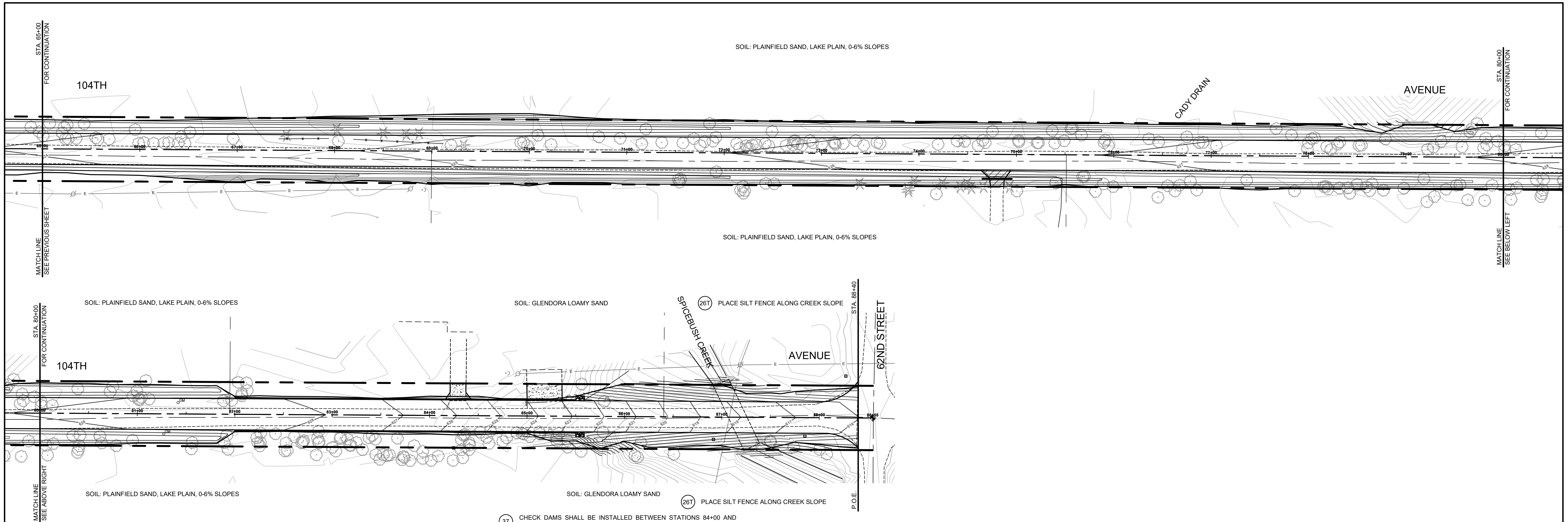
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104TH AVENUE RECONSTRUCTION PROJECT
CASCO TOWNSHIP - 65TH STREET TO 62ND STREET
SESC PLAN - P.O.B. TO STA. 65+00

DRAWN BY: ACW
REVIEWED BY: RK
DATE: APRIL 2023
SCALE: 1"= 40'H, 5V

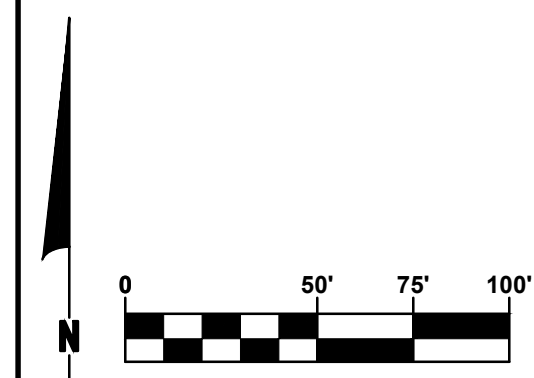
LH 400123 19



- 37 CHECK DAMS SHALL BE INSTALLED BETWEEN STATIONS 84+00 AND 87+00 LT. AND RT. AT 100 FOOT INTERVALS.
- 26T PLACE SILT FENCE ALONG CREEK SLOPE
- 31/32 PLACE HIGH VELOCITY MULCH BLANKET AS DIRECTED BY ENGINEER STA 84+00 TO 87+00 LEFT AND RIGHT. PAID FOR AS SLOPE RESTORATION, TYPE C.

SOIL EROSION & SEDIMENTATION CONTROL NOTES

1. ALL CONSTRUCTION METHODS WILL BE DONE IN COMPLIANCE WITH THE MICHIGAN SOIL EROSION AND SEDIMENTATION CONTROL ACT. THE CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING A "SOIL EROSION PERMIT" FROM THE COUNTY AND/OR A "PERMIT BY RULE/NOTICE OF COVERAGE" FROM THE MDEQ PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR COMPLYING WITH ALL REQUIREMENTS OF THE COUNTY "SOIL EROSION PERMIT" AND FOR ALL CERTIFIED STORM WATER INSPECTION SERVICE REQUIRED BY THE "PERMIT BY RULE." EROSION CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS AND WILL NOT RELIEVE THE CONTRACTOR'S RESPONSIBILITY FOR PROVIDING ALL REQUIRED EROSION CONTROL MEASURES.
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 7. TEMPORARY EROSION CONTROL MEASURES WILL NOT BE MANDATORY IF STORMWATER IS DETERMINED TO BE TOPOGRAPHICALLY INCAPABLE OF LEAVING SITE.
 8. SLOPE STAKE LINES AS CALLED OUT IN THE PLAN SHEETS DEFINE THE EARTH CHANGE LIMITS FOR THIS PROJECT.
 9. ALLEGAN COUNTY ROAD COMMISSION ASSUMES RESPONSIBILITY FOR MAINTENANCE OF PERMANENT SOIL EROSION & SEDIMENTATION CONTROL MEASURES ONE YEAR AFTER FINAL PROJECT ACCEPTANCE AS DEFINED UNDER THE SOIL EROSION AND SEDIMENTATION CONTROL OPERATING PROCEDURES FOR THE ALLEGAN COUNTY ROAD COMMISSION.
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 - 3P ALL DISTURBED AREAS NOT PAVED OR GRAVELED SHALL BE RESTORED UNDER THE PAY ITEM SLOPE RESTORATION TYPE A. THIS PAY ITEM INCLUDES PLACING MDOT SEEDING, MIXTURE TUF APPLIED AT A RATE OF 220 LB/ACRE, FERTILIZER, CHEMICAL NUTRIENT, CL A APPLIED AT A RATE OF 176 LB/ACRE, MULCH AT A RATE OF 2 TON/ACRE AND MULCH ANCHORING.
 - 31 TEMPORARY SEEDING WILL BE PLACED AT LOCATIONS DETERMINED BY THE ENGINEER IN THE FIELD AND WILL INCLUDE SEEDING MIXTURE, CR APPLIED AT A RATE OF 70 LB/ACRE AND MULCH INCLUDED IN SLOPE RESTORATION TYPE A.
 - 41 DUST CONTROL MAY BE REQUIRED ON THE SUBGRADE CONSTRUCTION AND WILL INCLUDE APPLYING FRESH WATER TO BE INCLUDED IN THE ITEM OF STATION GRADING. DUST CONTROL ON THE AGGREGATE BASE COURSE WILL BE ACCOMPLISHED BY APPLYING FRESH WATER (INCLUDED IN THE ITEM OF AGGREGATE BASE, INCH) AS DIRECTED BY THE PROJECT ENGINEER.
 - 7P INSTALL RIPRAP, PLAIN OR RIPRAP, HEAVY AS DIRECTED BY THE ENGINEER IN THE FIELD. THE RIPRAP, PLAIN AND RIPRAP, HEAVY PAY ITEMS WILL INCLUDE A GEOTEXTILE UNDERLAYMENT.
 - 26T SILT FENCE WILL BE INSTALLED AT CREEK CROSSINGS, ADJACENT TO ALL WETLANDS AND SURFACE WATERS, AND OTHER LOCATIONS AS DIRECTED BY THE ENGINEER. EACH SILT FENCE WILL BE INSTALLED GENERALLY ALONG THE SAME CONTOUR ELEVATION.
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 - 37 CHECK DAMS WILL BE INSTALLED AT THE LOCATIONS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER IN THE FIELD.



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104TH AVENUE RECONSTRUCTION PROJECT
CASCO TOWNSHIP - 65TH STREET TO 62ND STREET

SESC PLAN - STA. 65+00 TO P.O.E.

DRAWN BY: ACW
REVIEWED BY: RK
DATE: APRIL 2023
SCALE: 1"= 40'H, 5V

LH 400123 20