

ALLEGAN COUNTY ROAD COMMISSION

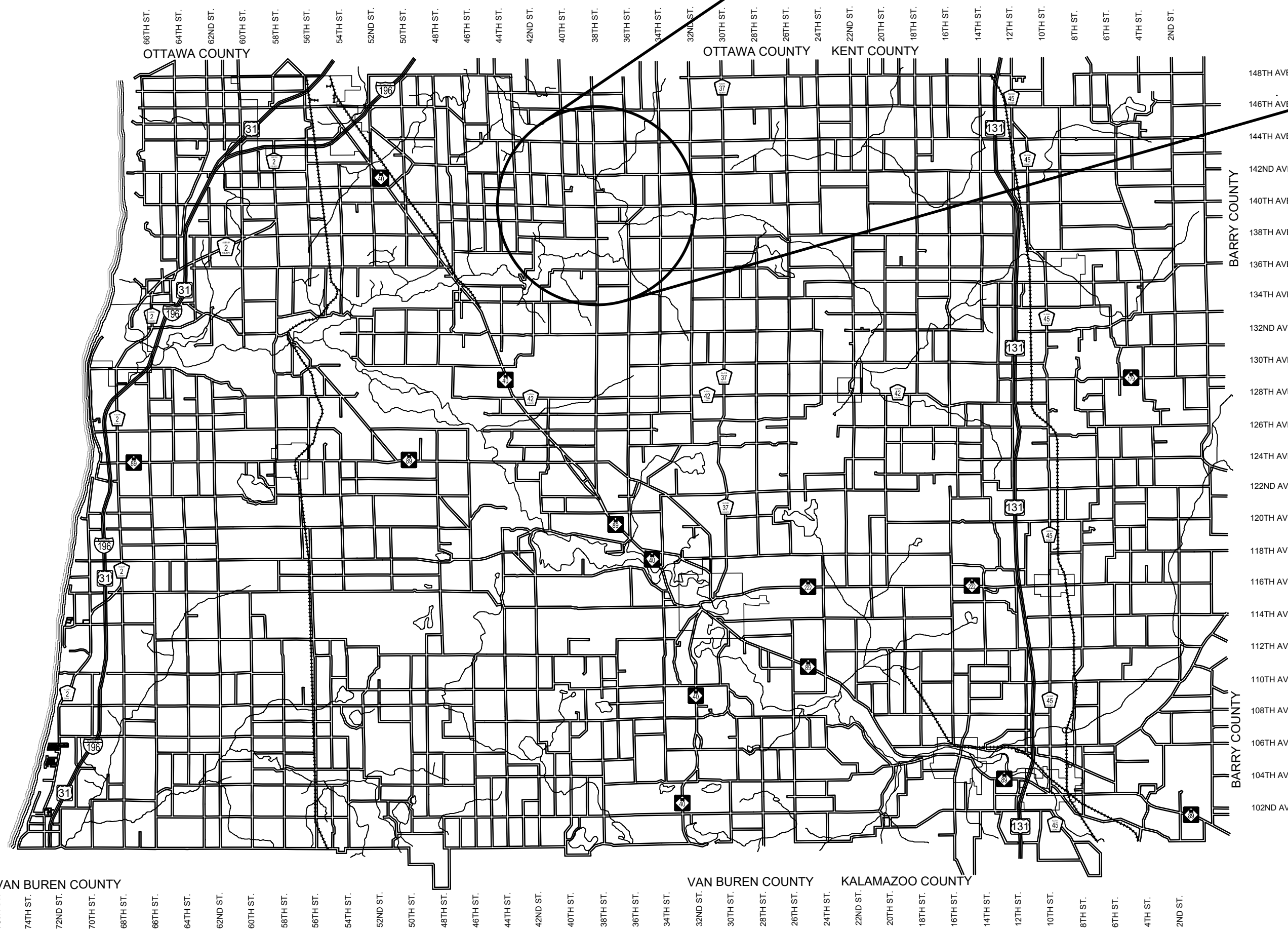
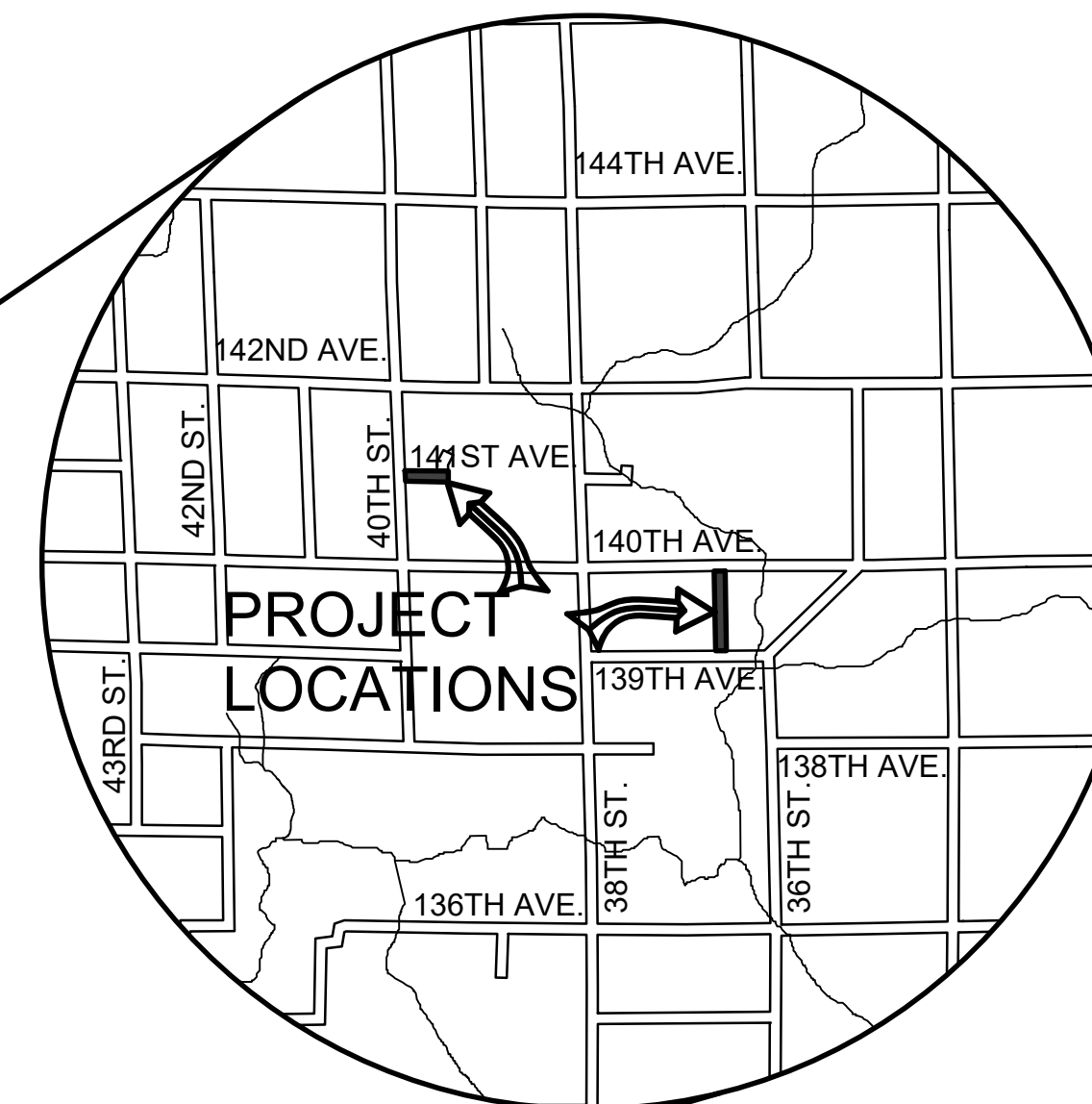
37TH STREET RECONSTRUCTION PROJECT 139TH AVENUE TO 140TH AVENUE 141ST AVENUE RECONSTRUCTION PROJECT 40TH STREET TO 1300' EAST OVERISEL TOWNSHIP

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 2012 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 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.



ALLEGAN COUNTY, MICHIGAN
NOT TO SCALE

INDEX OF PLANS

- 1 - COVER SHEET
- 2 - TYPICAL SECTIONS
- 3 - 37TH STREET PLAN AND PROFILE P.O.B. TO STA. 20+00
- 4 - 37TH STREET PLAN AND PROFILE STA. 20+00 TO STA. 30+00
- 5 - 37TH STREET PLAN AND PROFILE STA. 30+00 P.O.E.
- 6 - 141ST AVENUE PLAN AND PROFILE P.O.B. TO STA. 110+00
- 7 - 141ST AVENUE PLAN AND PROFILE STA. 110+00 P.O.E.
- 8 - 37TH STREET CROSS SECTIONS
- 9 - 37TH STREET CROSS SECTIONS
- 10 - 37TH STREET CROSS SECTIONS
- 11 - 37TH STREET CROSS SECTIONS
- 12 - 141ST AVENUE CROSS SECTIONS
- 13 - 141ST AVENUE CROSS SECTIONS
- 14 - 141ST AVENUE CUL-DE-SAC CROSS SECTIONS
- 15 - SESC PLAN

UTILITY CONTACTS 37TH STREET

ELECTRIC
CONSUMERS ENERGY
4000 CLAY AVE. SW
GRAND RAPIDS, MI 49548
616-530-4185
MS. KYLEE MAYCROFT
grcwimp@cmsenergy.com

GAS
MICHIGAN GAS
742 E ALLEGAN STREET
OTSEGO, MI 49078
616-844-7514
MR. SETH PURUCKER
seth.purucker@michiganasutilities.com

TELEPHONE
FRONTIER/VERIZON
601 N. US 131
THREE RIVERS, MI 49093
269-273-0371
MR. LANCE WEBLEY
lance.webley@ftr.com

MISS DIG 811

UTILITY CONTACTS 141ST AVENUE

ELECTRIC
CONSUMERS ENERGY
4000 CLAY AVE. SW
GRAND RAPIDS, MI 49548
616-530-4185
MS. KYLEE MAYCROFT
grcwimp@cmsenergy.com

GAS
SEMCO ENERGY
712 BLACK RIVER DRIVE
HOLLAND, MI 49424
616-392-8060
MR. MATT WIERENGA
matthew.wierenga@semcoenergy.com

FIBER OPTIC
ACENTEK
738 64TH AVENUE
ZEELAND, MI 49464
616-892-0143
MR. JOEL ROELOFS
jroelofs@acentek.net

MISS DIG 811

CONTRACT FOR ROAD IMPROVEMENTS

0.49 MILES OF ROADWAY RECONSTRUCTION ON 37TH STREET FROM 139TH AVENUE TO 140TH AVENUE AND 0.25 MILES OF ROADWAY RECONSTRUCTION ON 141ST AVENUE FROM 40TH STREET TO THE EAST IN OVERISEL TOWNSHIP, ALLEGAN COUNTY. RECONSTRUCTION WILL INCLUDE CLEARING, GRADE ESTABLISHMENT, SAND SUBBASE, AGGREGATE BASE, CROSS CULVERT REPLACEMENT, AND RESTORATION.

PREPARED UNDER THE SUPERVISION OF:



Ryan P. Brown

RYAN P. BROWN
REGISTERED PROFESSIONAL ENGINEER No. 65933

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

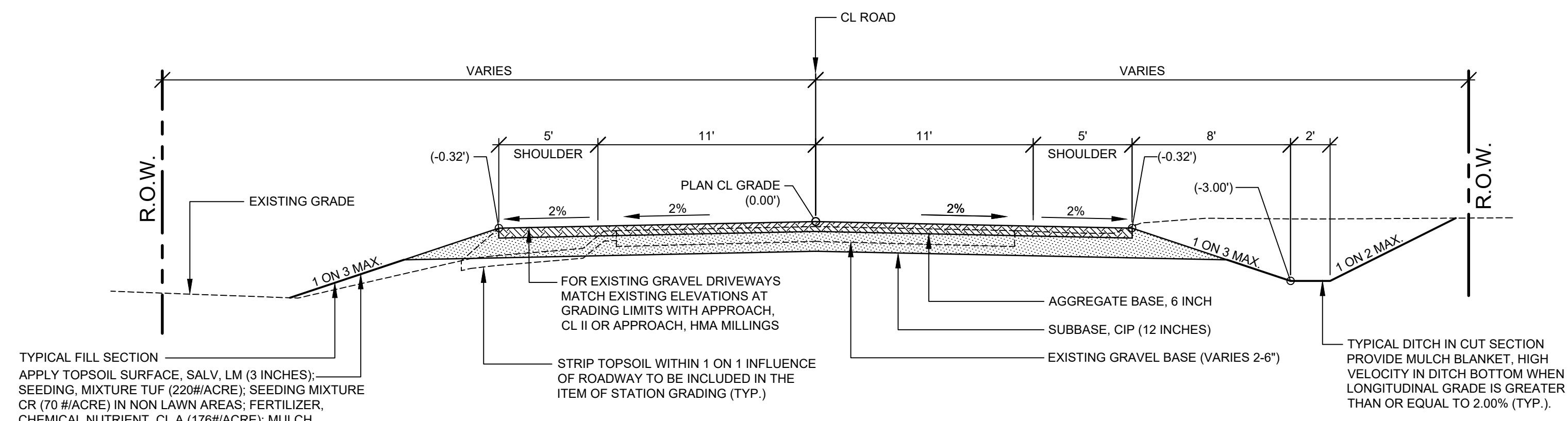
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37TH ST & 141ST AVE RECONSTRUCTION PROJECTS
OVERISEL TOWNSHIP

COVER SHEET

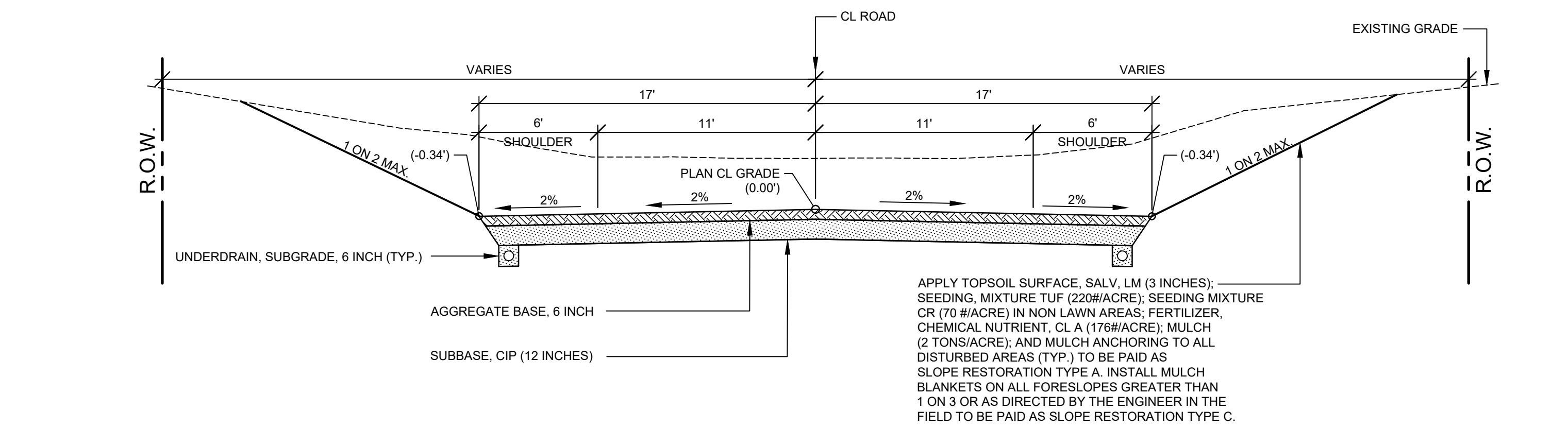
DRAWN BY: RPB
REVIEWED BY:
DATE: MAY, 2021
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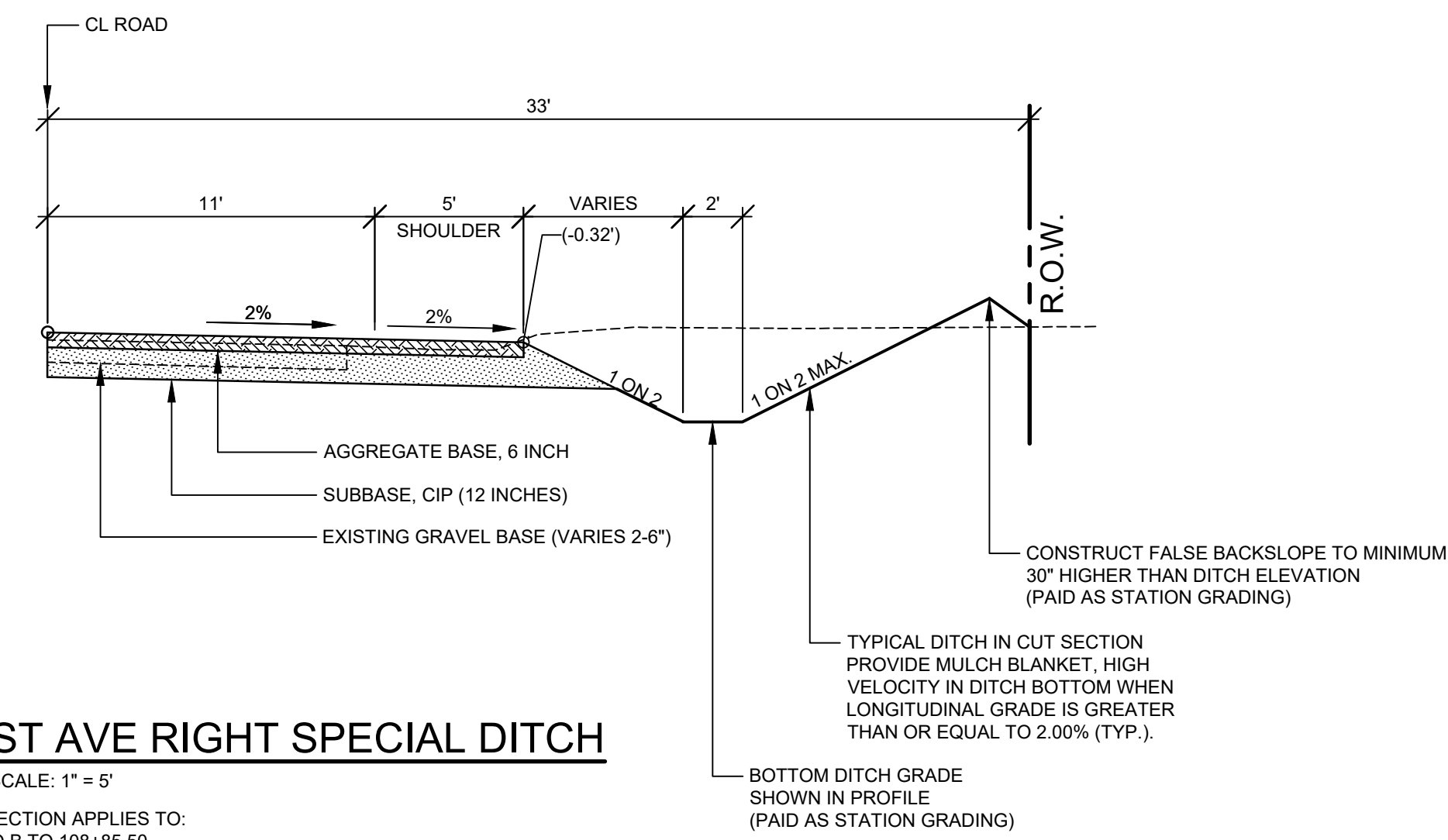
TYPICAL SECTION - 37TH ST & 141ST AVE

SCALE: 1" = 5'
THIS SECTION APPLIES TO:
P.O.B TO P.O.E.



TYPICAL SECTION - VALLEY GUTTER

SCALE: 1" = 5'
THIS SECTION APPLIES TO:
141ST AVE STA. 106+00 TO 108+75 LEFT



TYPICAL SECTION - 141ST AVE RIGHT SPECIAL DITCH

SCALE: 1" = 5'
THIS SECTION APPLIES TO:
P.O.B TO 108+85.50

PROJECT NOTES

THE "2012 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 APRIL 19, 2021. 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), MDOT 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 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.

SEMCO ENERGY (GAS) WILL BE AVAILABLE TO RELOCATE LINE SLIGHTLY IF THERE IS A CONFLICT AT CORNER OF 141ST AND 40TH.

ACENTEK WILL BE REMOVING PEDESTALS IN CONFLICT WITH PROJECT ON 141ST. FIBER LINE SHOULD BE CLEAR OF PROJECT (BELOW EXISTING RIGHT SHOULDER 2.5 FEET).

CONSUMERS ELECTRIC WILL BE RELOCATING POLES IN CONFLICT WITH GRADING LIMITS.

FRONTIER COMMUNICATIONS WILL BE RELOCATING LINES ON 37TH STREET IN JUNE 2021.

MISCELLANEOUS QUANTITIES

DESCRIPTION	QUANTITY	UNIT
SUBGRADE UNDERCUTTING, TYPE II	500	CYD
AGGREGATE, 6A	50	TON
GEOTEXTILE STABILIZATION	850	SYD
RIPRAP, PLAIN	30	SYD
EROSION CONTROL, SILT FENCE	300	FT
APPROACH, CL II	60	TON
APPROACH, HMA MILLINGS	15	TON
CULV, CL, CONC, 18 INCH	40	FT
CULV END SECT, CONC, 18 INCH	2	EA
CULV, CL F, 12 INCH	80	FT
CULV, CL F, 18 INCH	40	FT

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REVISIONS	1	2	3	4	5	6	7

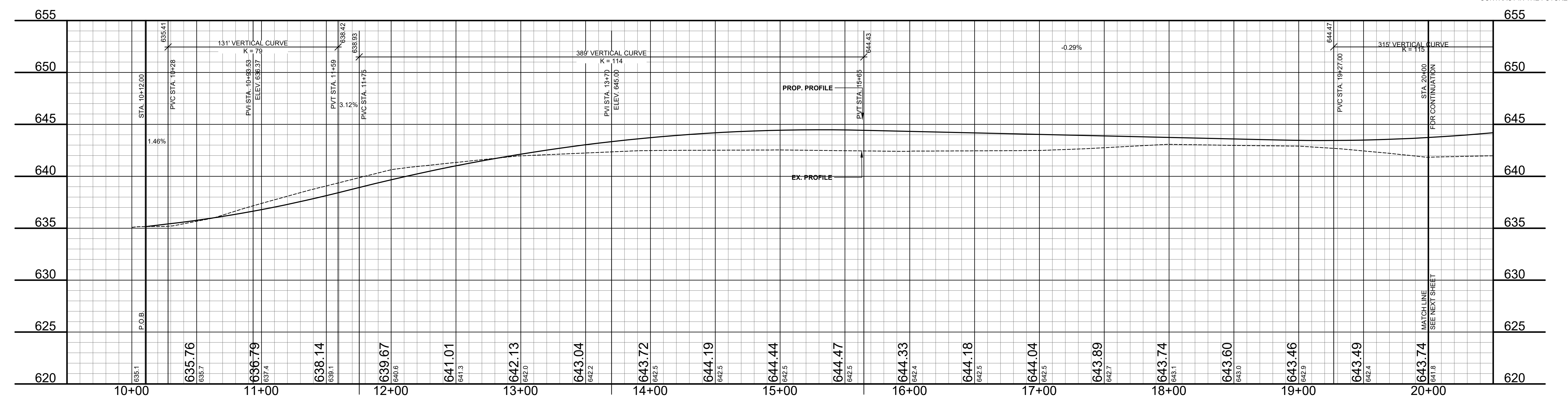
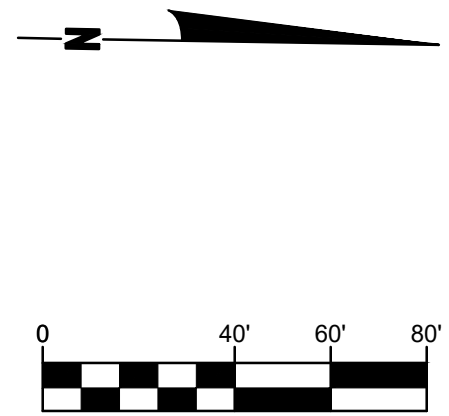
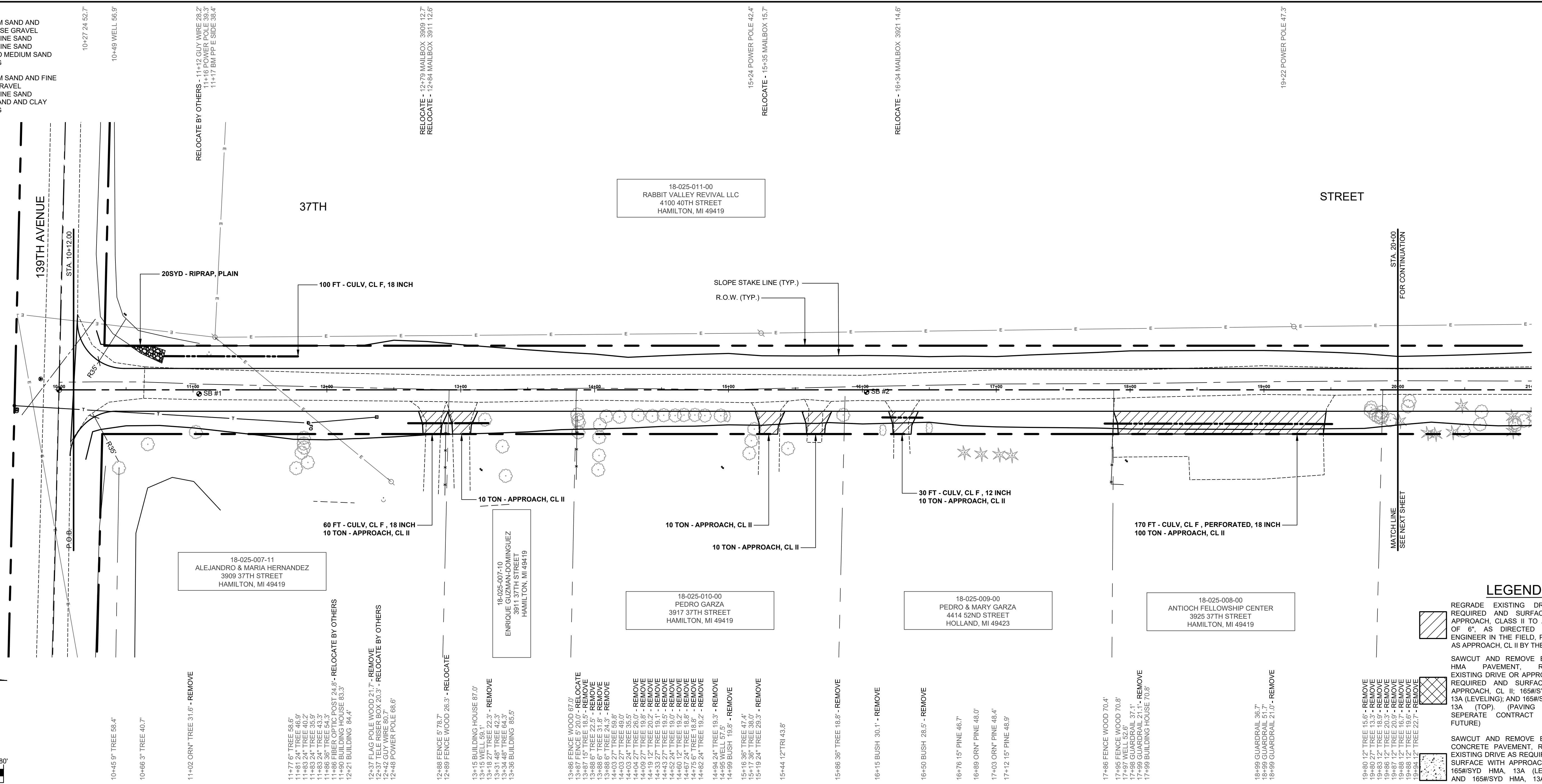
37TH ST & 141ST AVE RECONSTRUCTION PROJECT
OVERISEL TOWNSHIP

TYPICAL SECTIONS, DETAILS, & NOTES

DRAWN BY: RPB
REVIEWED BY: JSE
DATE: MAY, 2021
SCALE: AS NOTED

SOIL BORINGS

SB #1	0 - 10"	BROWN MEDIUM SAND AND FINE TO COARSE GRAVEL
	10" - 30"	DARK BROWN FINE SAND
	30" - 48"	BROWN SILTY FINE SAND
	48" - 60"	BROWN FINE TO MEDIUM SAND
	60"	END OF BORING
SB #2	0 - 13"	BROWN MEDIUM SAND AND FINE TO COARSE GRAVEL
	13" - 36"	DARK BROWN FINE SAND
	36" - 60"	BROWN FINE SAND AND CLAY
	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.
	SAWCUT AND REMOVE EXISTING HMA PAVEMENT. REGRADE EXISTING DRIVE OR APPROACH AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 13A (LEVELING); AND 165#/SYD HMA, 13A (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, 13A (LEVELING); AND 165#/SYD HMA, 13A (TOP) (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE).

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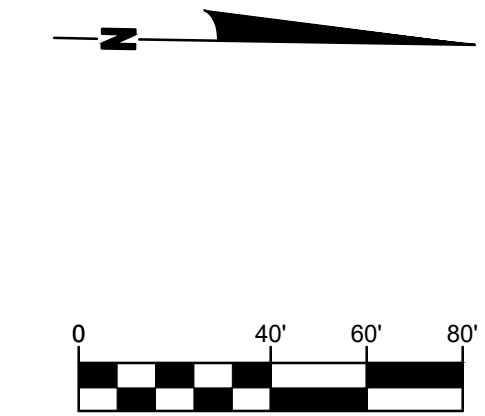
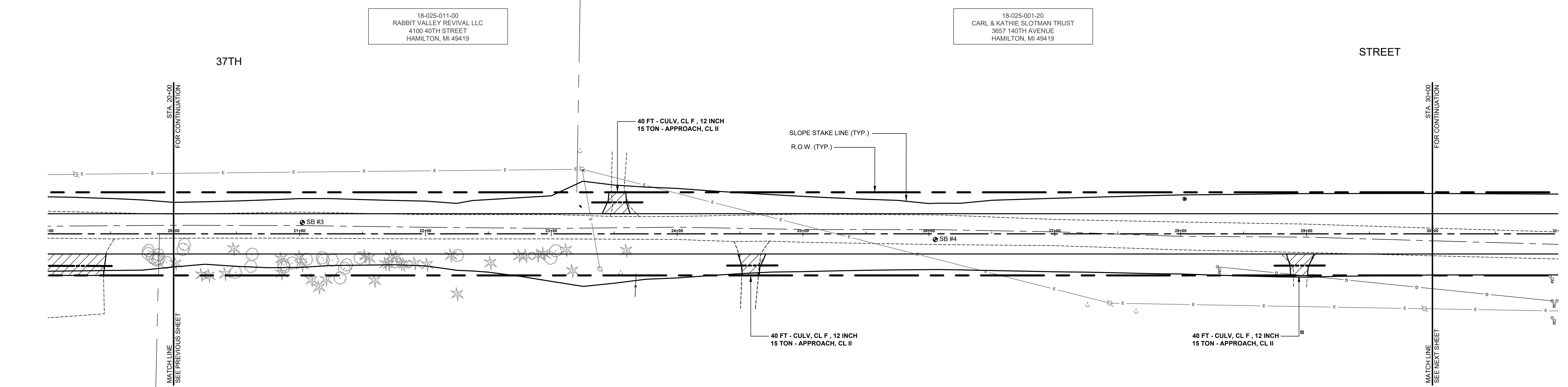
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37TH ST & 141ST AVE RECONSTRUCTION PROJECT
OVERISEL TOWNSHIP
37TH STREET PLAN & PROFILE - P.O.B. TO STA. 20+00

DRAWN BY: RPB
REVIEWED BY: JSE
DATE: APRIL, 2021
SCALE: 1"= 40'H, 5V

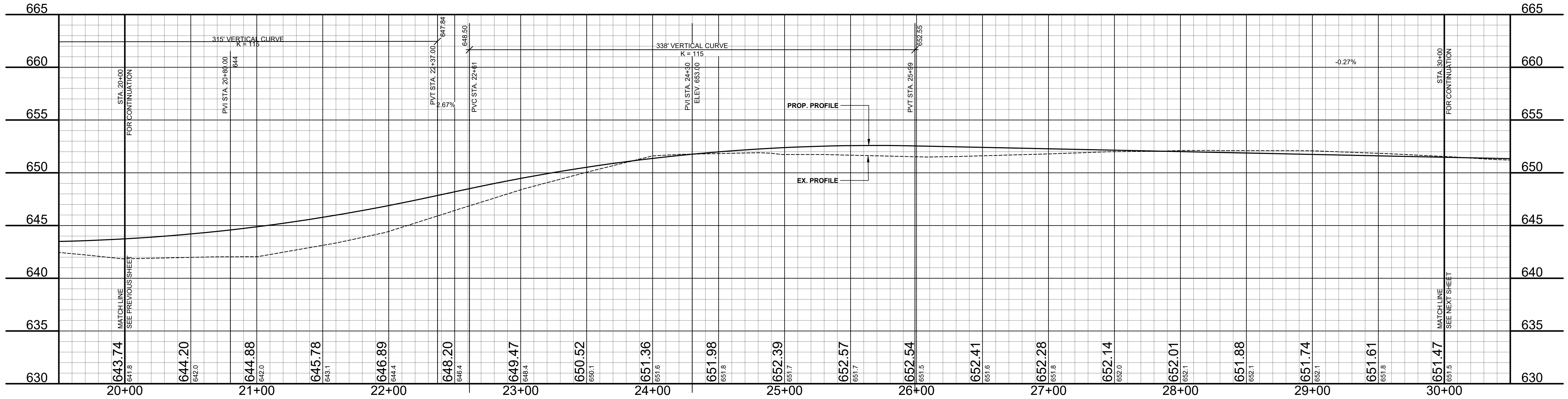
SOIL BORINGS	
SB #3	0 - 7" BROWN MEDIUM SAND AND FINE TO COARSE GRAVEL
	7" - 24" DARK BROWN FINE SAND
	24" - 48" BROWN SILTY FINE SAND
	48" - 60" LIGHT BROWN FINE TO MEDIUM SAND
	60" END OF BORING
SB #4	0 - 10" BROWN MEDIUM SAND AND FINE TO COARSE GRAVEL
	10" - 26" DARK BROWN FINE SAND
	26" - 48" BROWN FINE SAND
	48" - 60" LIGHT BROWN FINE TO MEDIUM SAND
	60" END OF BORING



- 20+02.6' PINE 23.3' - REMOVE
- 20+08.15' PINE 31.0' - REMOVE
- 20+09.12' TREE 8.4' - REMOVE
- 20+22.24' PINE 32.3' - REMOVE
- 20+31.15' PINE 31.7' - REMOVE
- 20+41.15' PINE 31.7' - REMOVE
- 20+48.15' PINE 11.7' - REMOVE
- 20+49.9' TREE 30.5' - REMOVE
- 20+63.6' TREE 16.3' - REMOVE
- 20+88.9' PINE 19.5' - REMOVE
- 20+88.15' PINE 31.0' - REMOVE
- 20+88.15' PINE 31.0' - REMOVE
- 20+88.12' TREE 26.5' - REMOVE
- 20+94.6' TREE 23.2' - REMOVE
- 21+02.9' PINE 24.5' - REMOVE
- 21+06.15' TREE 20.2' - REMOVE
- 21+10.9' PINE 36.4' - REMOVE
- 21+18.15' TREE 20.9' - REMOVE
- 21+18.15' TREE 20.9' - REMOVE
- 21+26.15' TREE 20.9' - REMOVE
- 21+32.9' TREE 35.1' - REMOVE
- 21+35.15' TREE 27.4' - REMOVE
- 21+48.6' TREE 19.1' - REMOVE
- 21+52.15' PINE 17.6' - REMOVE
- 21+52.15' PINE 17.6' - REMOVE
- 21+60.9' PINE 38.3' - REMOVE
- 21+69.9' PINE 23.5' - REMOVE
- 21+71.9' PINE 24.0' - REMOVE
- 21+81.9' PINE 23.6' - REMOVE
- 21+81.9' PINE 23.6' - REMOVE
- 21+82.9' PINE 24.3' - REMOVE
- 22+21.15' PINE 16.9' - REMOVE
- 22+26.27' TREE 17.2' - REMOVE
- 22+52.9' PINE 22.8' - REMOVE
- 22+75.12' PINE 17.2' - REMOVE
- 22+80.12' PINE 17.2' - REMOVE
- 22+90.6' PINE 16.9' - REMOVE
- 22+90.6' PINE 16.9' - REMOVE
- 22+98.9' TREE 19.4' - REMOVE
- 23+03.24' TREE 13.4' - REMOVE
- 23+12.12' PINE 12.5' - REMOVE
- 23+17.9' PINE 28.1' - REMOVE
- 23+38 POWER POLE 27.9' - RELOCATE BY OTHERS
- 23+65 GUY WIRE 59.5' - RELOCATE BY OTHERS
- 23+60.15' PINE 13.0' - REMOVE
- 23+67 FENCE CHAIN 49.9'
- 23+67 FENCE 5' 31.6' - RELOCATE
- 23+25 WELL 22.4'
- 23+25 POWER POLE 51.2'
- 23+25 BM PP E SIDE 59.4'
- 18-025-011-00 RABBIT VALLEY REVIVAL LLC 4100 40TH STREET HAMILTON, MI 49419
- 18-025-001-20 CARL & KATHIE SLOTMAN TRUST 3857 140TH AVENUE HAMILTON, MI 49419
- 18-025-002-00 BERENS HOLDING LLC 3643 140TH AVENUE HAMILTON, MI 49419
- 27+26 GUY WIRE 54.8'
- 27+44 POWER POLE 55.0'
- 27+65 GUY WIRE 60.0'
- 28+29 GAS MARKER POST 26.2' - RELOCATE BY OTHERS
- 28+96 TELE RISER BOX 78.1'
- 29+94 POWER POLE 59.4'

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, 13A (LEVELING); AND 165#/SYD HMA, 13A (TOP) (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE)
	SAWCUT AND REMOVE EXISTING CONCRETE DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 13A (LEVELING); AND 165#/SYD HMA, 13A (TOP) (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE)



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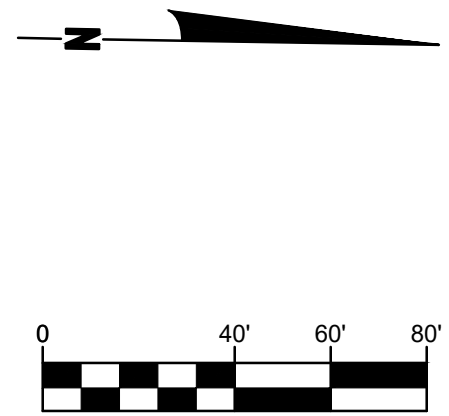
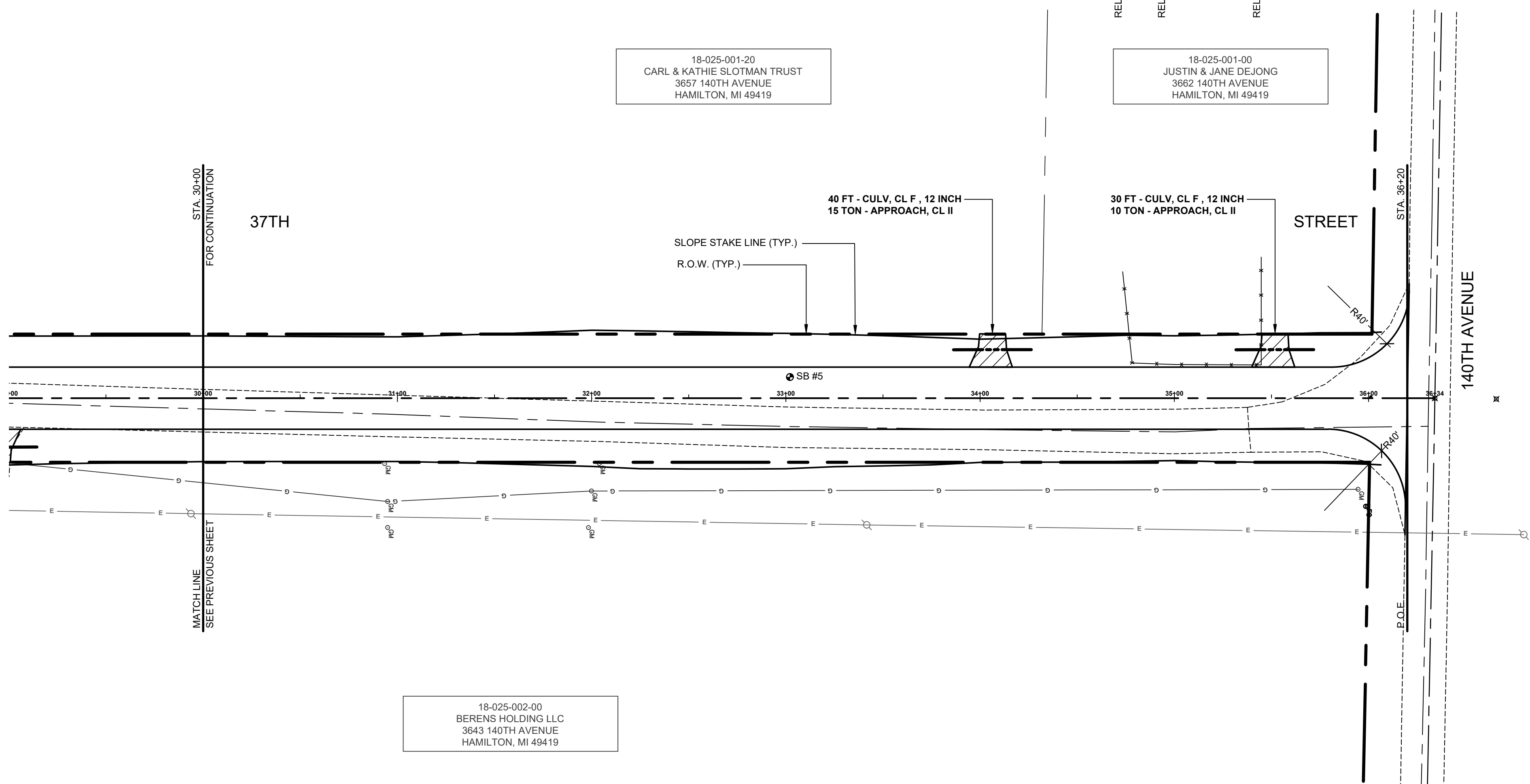
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37TH ST & 141ST AVE RECONSTRUCTION PROJECT
OVERISEL TOWNSHIP
37TH STREET PLAN & PROFILE - STA. 20+00 TO STA. 30+00

DRAWN BY: RPB
REVIEWED BY: JSE
DATE: APRIL, 2021
SCALE: 1"= 40'H, 5V

SOIL BORINGS

SB #5	0 - 6"	BROWN MEDIUM SAND AND FINE TO COARSE GRAVEL
	6" - 8"	DARK BROWN FINE SAND
	8" - 60"	LIGHT BROWN FINE SAND
	60"	END OF BORING



18-025-001-20
CARL & KATHIE SLOTMAN TRUST
3657 140TH AVENUE
HAMILTON, MI 49419

18-025-001-00
JUSTIN & JANE DEJONG
3862 140TH AVENUE
HAMILTON, MI 49419

18-025-002-00
BERENS HOLDING LLC
3643 140TH AVENUE
HAMILTON, MI 49419

30+93 GAS MARKER POST 33.7'
30+95 GAS MARKER POST 53.2'
30+95 GAS MARKER POST 66.6'

31+98 GAS MARKER POST 66.7'
32+00 GAS MARKER POST 77.7'
32+00 GAS MARKER POST 33.7'

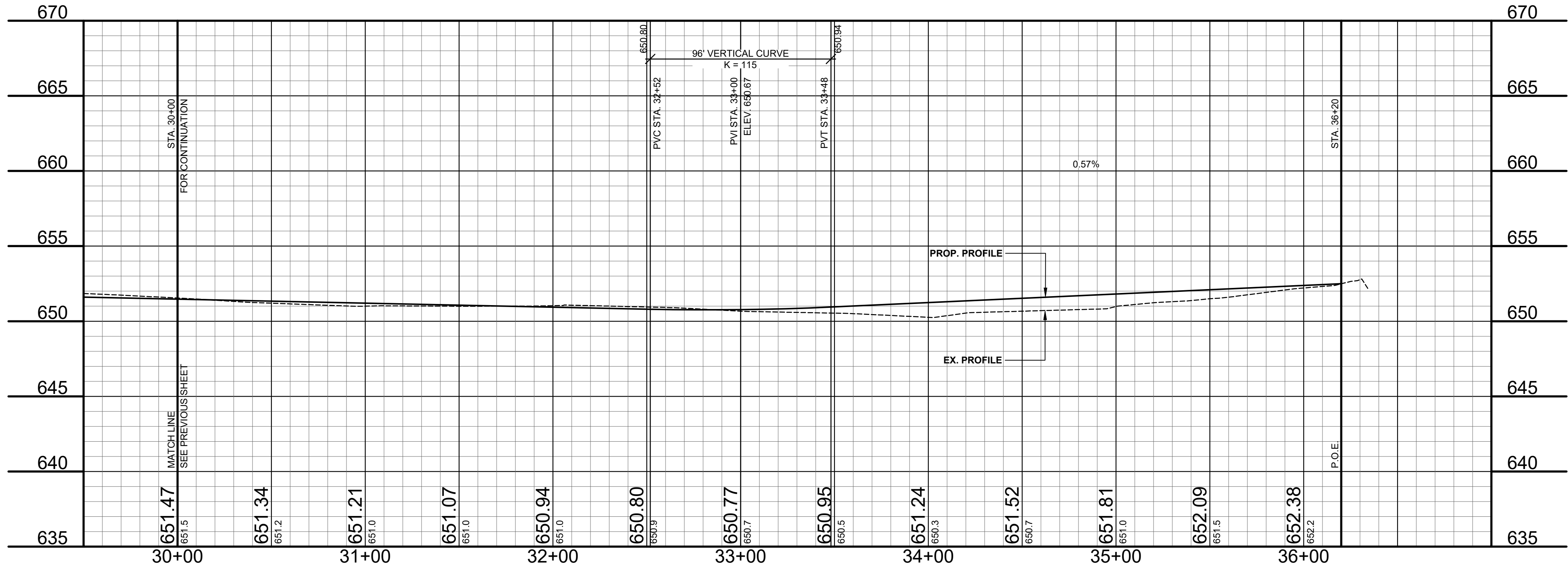
33+42 POWER POLE 65.3'

35+95 GAS MARKER POST 46.9'
35+98 FIBER OPTIC POST 55.7'
35+99 TELE RISER BOX 55.7'

36+34 POWER POLE 83.8'
36+34 FND CIB SMASHED 31.6'
36+34 FND 5/8 IRON FENCE 0.0'

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, 13A (LEVELING); AND 165#/SYD HMA, 13A (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, 13A (LEVELING); AND 165#/SYD HMA, 13A (TOP). (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE)



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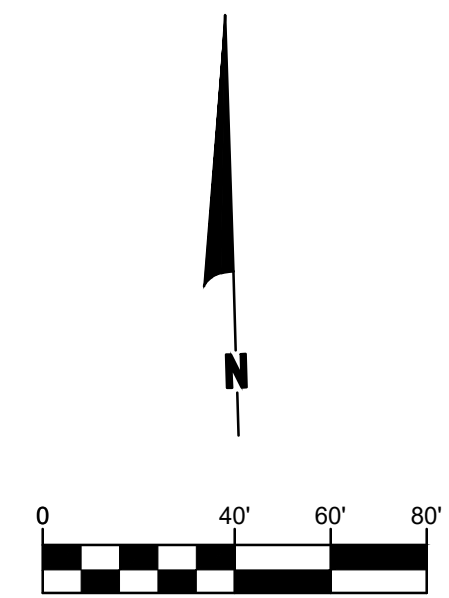
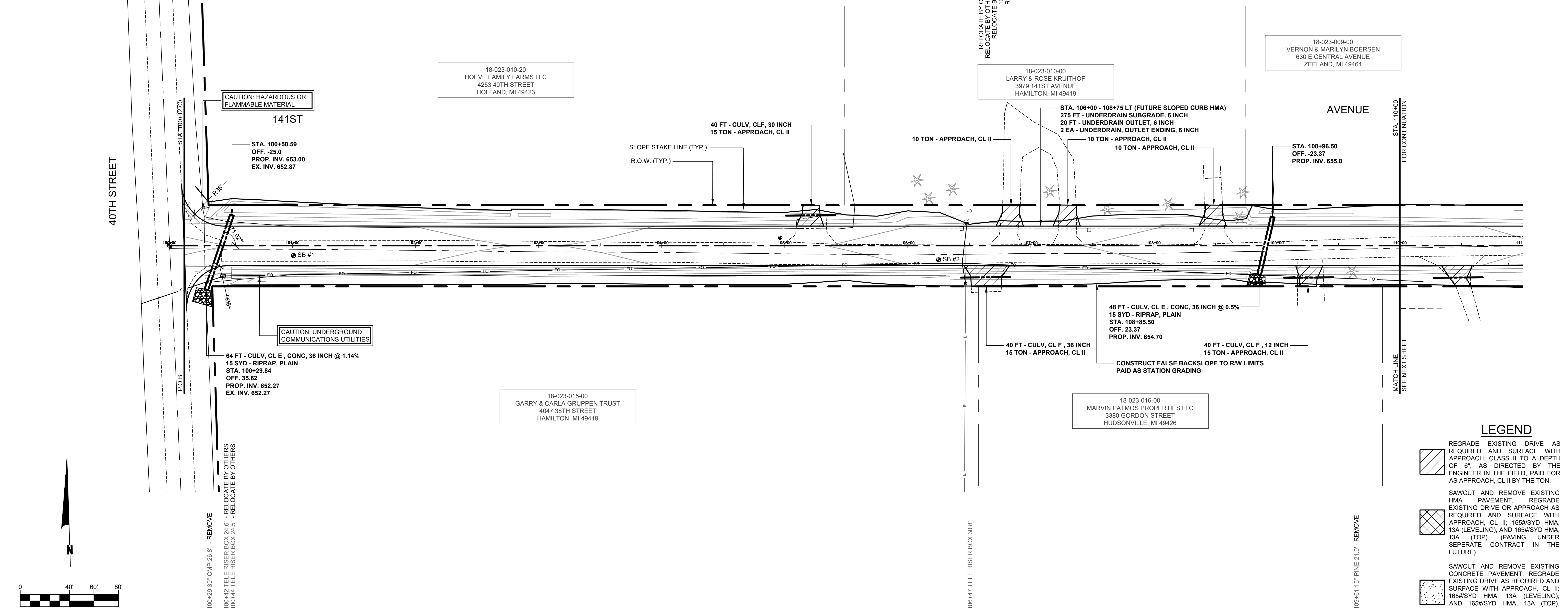
37TH ST & 141ST AVE RECONSTRUCTION PROJECT
OVERISEL TOWNSHIP
37TH STREET PLAN & PROFILE - STA. 30+00 TO P.O.E.

DRAWN BY: RPB
REVIEWED BY: JSE
DATE: APRIL, 2021
SCALE: 1" = 40'H, 5'V

SOIL BORINGS

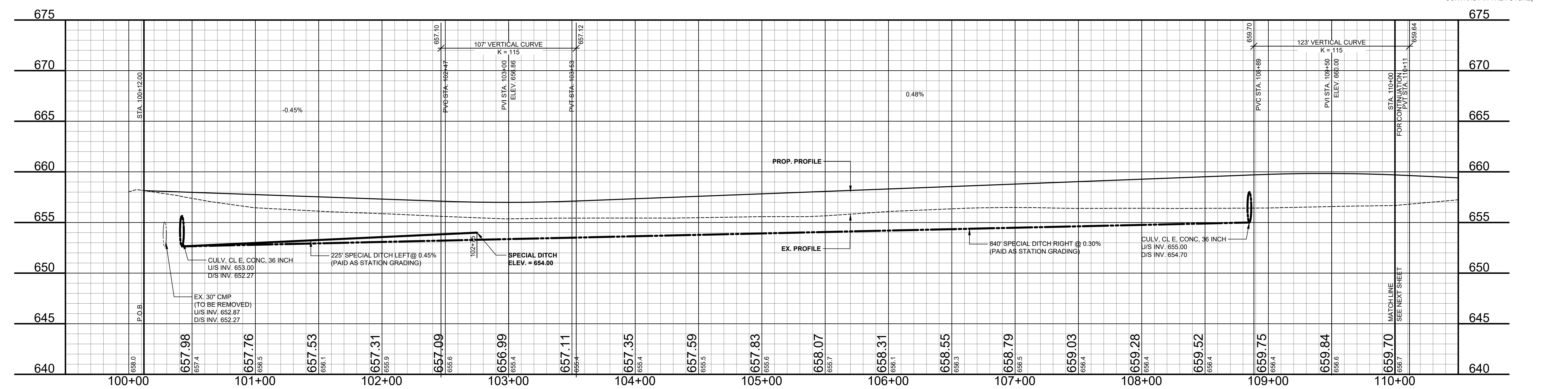
SB #1	0 - 5'	BROWN MEDIUM SAND AND FINE TO COARSE GRAVEL
	5' - 22"	BROWN FINE TO MEDIUM SAND
	22' - 30"	DARK BROWN SILTY FINE SAND
	30' - 60"	GRAY SILTY SAND AND CLAY
	60'	END OF BORING
SB #2	0 - 10'	BROWN MEDIUM SAND AND FINE TO COARSE GRAVEL
	10' - 30"	DARK BROWN FINE SAND
	30' - 60"	BROWN SILTY FINE SAND, SOME CLAY
	60'	END OF BORING

100+27 GAS MARKER POST 20.2'
REMOVE - 100+38 30' CMP 21.4'



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, 13A (LEVELING); AND 165#/SYD HMA, 13A (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, 13A (LEVELING); AND 165#/SYD HMA, 13A (TOP) (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE)



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37TH ST & 141ST AVE RECONSTRUCTION PROJECT
OVERISEL TOWNSHIP

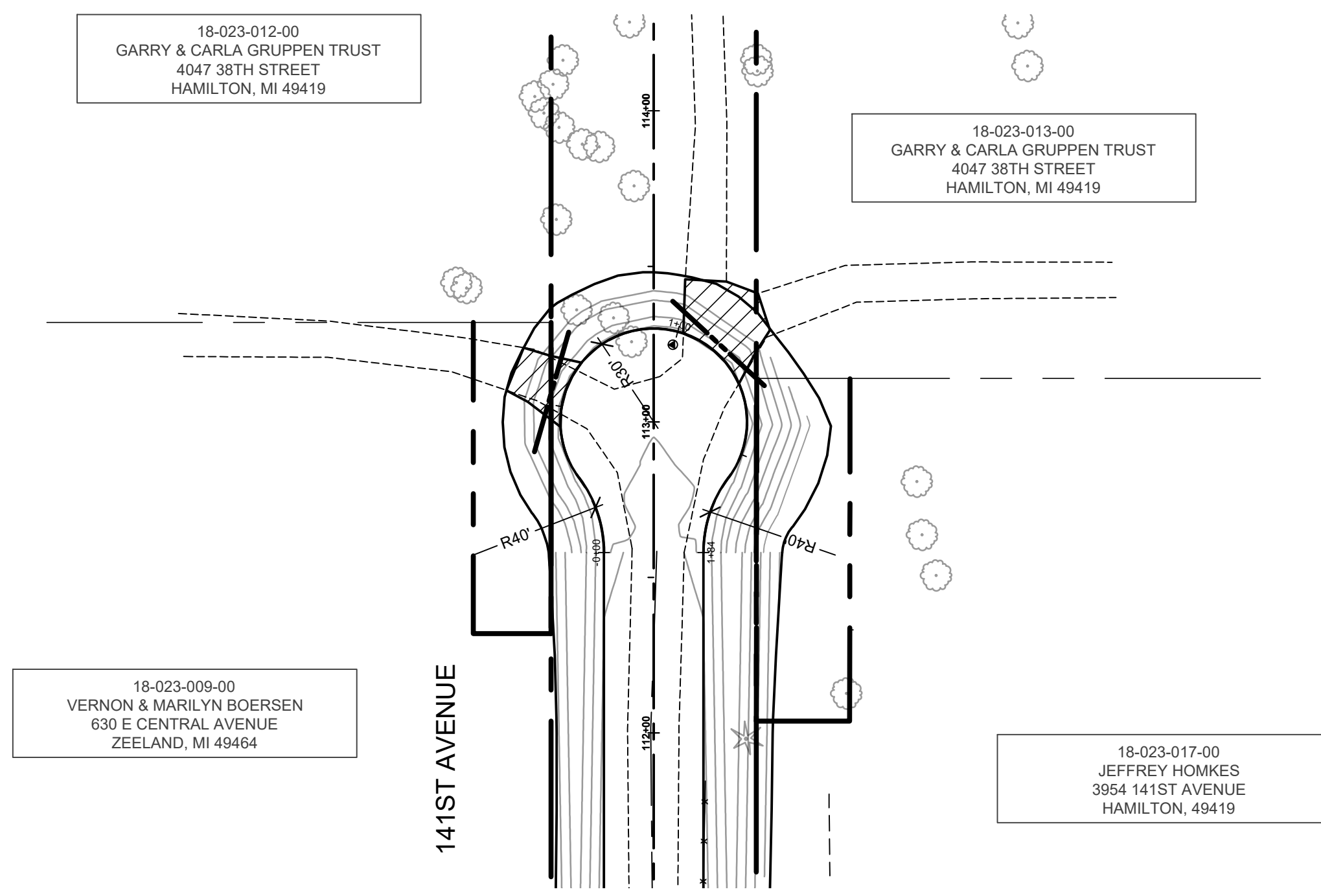
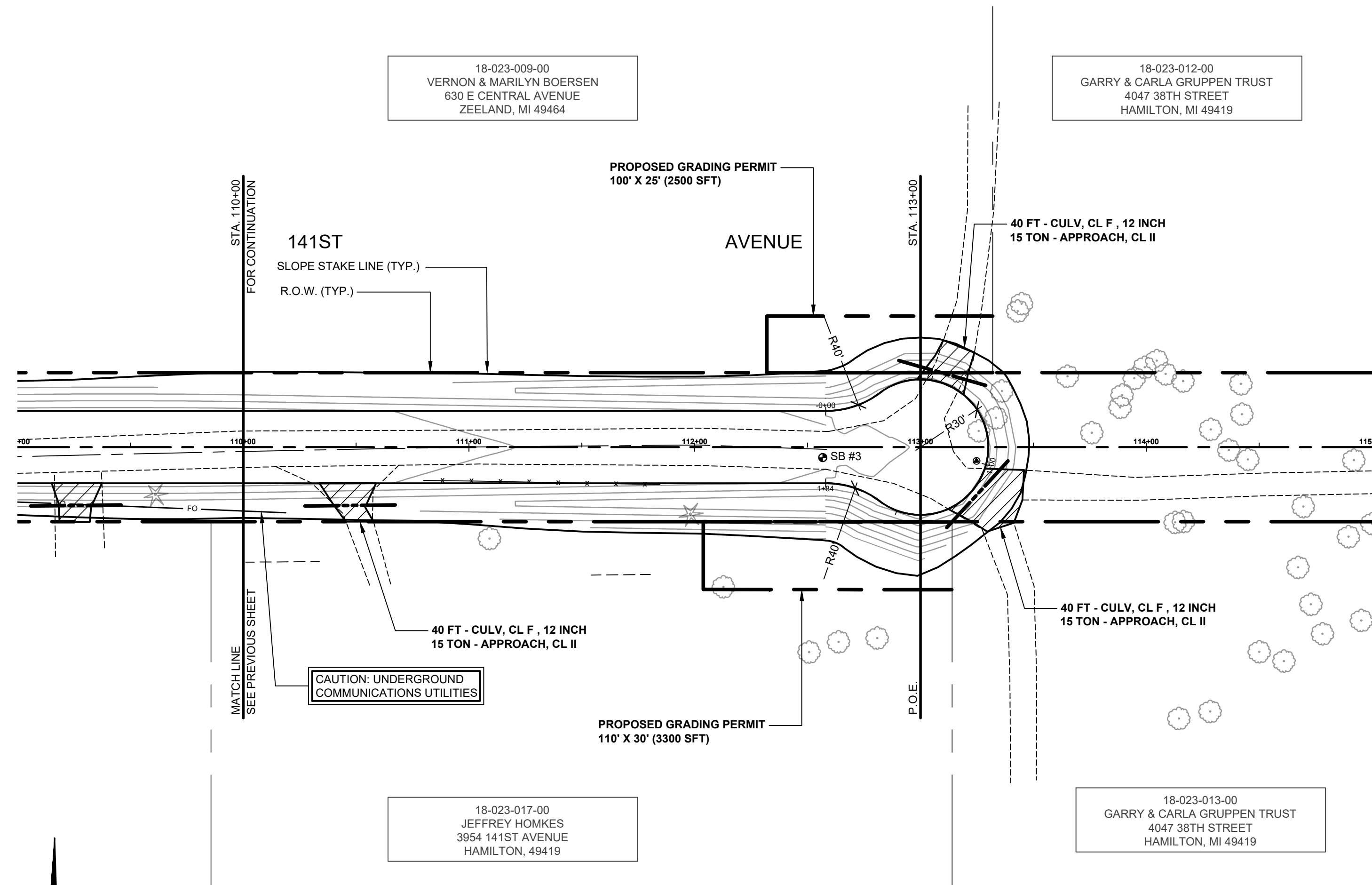
141ST AVENUE PLAN & PROFILE - STA. 100+00 TO STA. 110+00

DRAWN BY: RPB
REVIEWED BY: JSE
DATE: APRIL, 2021
SCALE: 1"= 40'H, 5'V

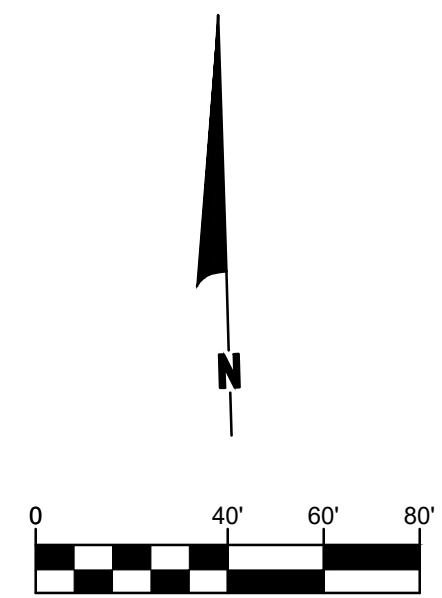
SOIL BORINGS

SB #3	0 - 10"	BROWN MEDIUM SAND AND FINE TO COARSE GRAVEL
	10" - 30"	DARK BROWN FINE SAND
	30" - 60"	BROWN FINE SAND
	60"	END OF BORING

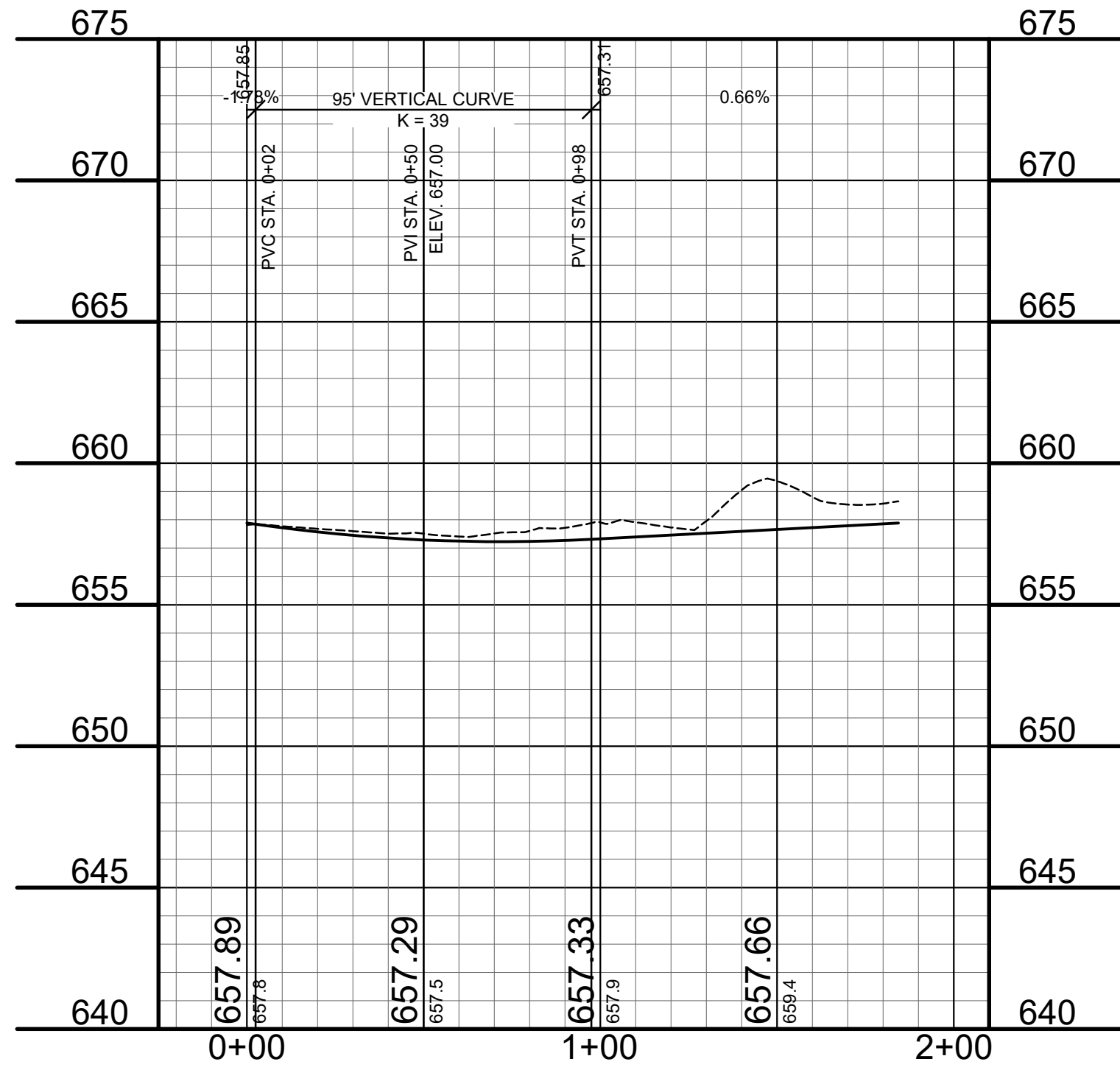
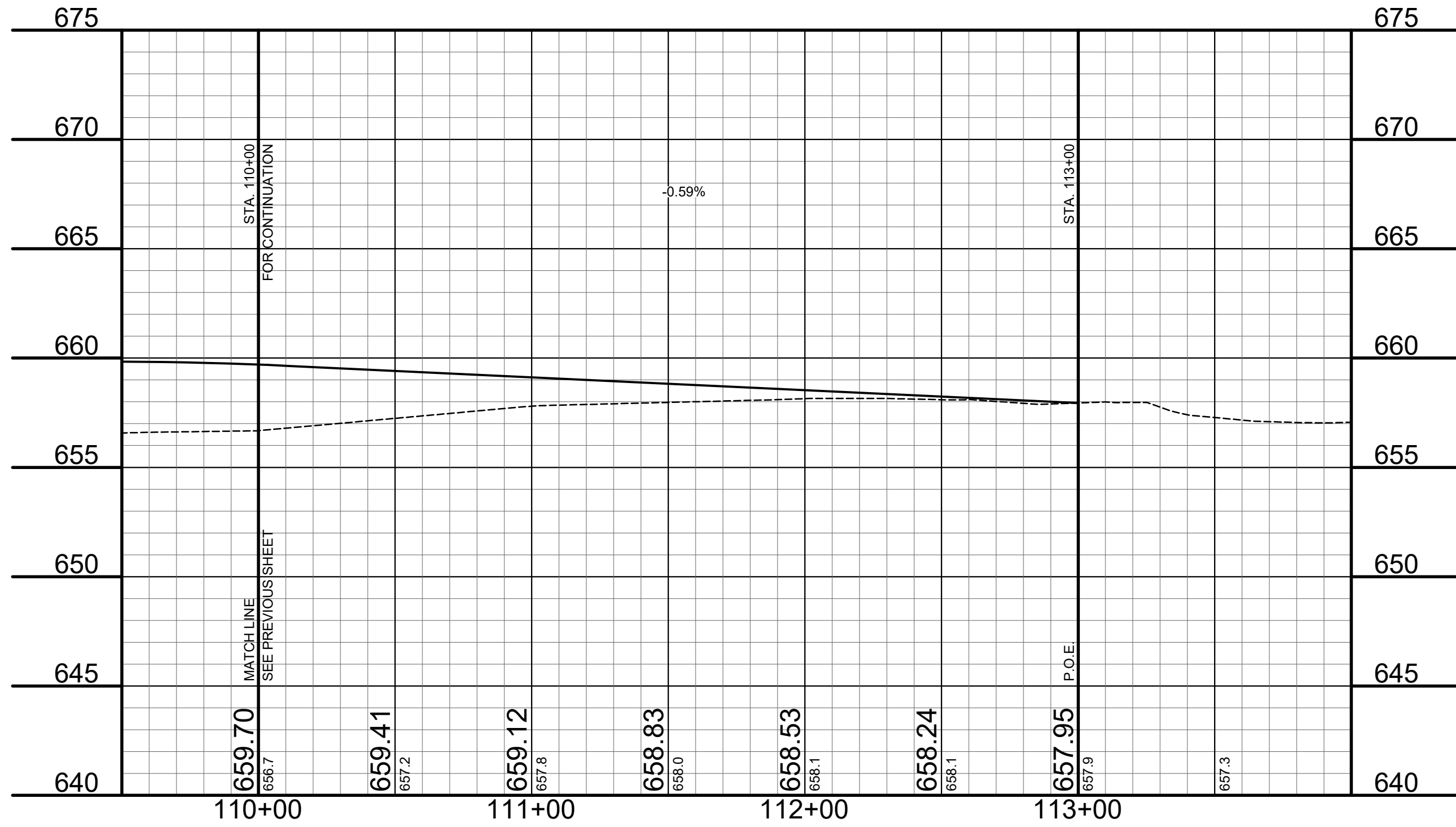
REMOVE - 113+26 9" TREE 7.1'
 REMOVE - 113+33 3.5" TREE 2.2'
 REMOVE - 113+34.4" TREE 2.8'
 REMOVE - 113+43.36" TREE 60.2'
 113+45 15"TRN 65.5'
 113+45 9" TREE 31.3'
 113+76 6" TREE 6.3'
 113+88 6" TREE 17.6'
 113+88 6" TREE 30.4'
 113+88 6" TREE 30.4'
 113+89 6" TREE 35.3'
 114+45 9" TREE 38.2'
 114+45 9" TREE 29.2'
 114+16 6" TREE 29.2'
 114+28 9" TREE 7.8'



**141ST AVENUE
CUL-DE-SAC PLAN AND PROFILE**



110+01 BUILDING BARN 50.3'
 110+34 BUILDING 50.7'
 110+80 FENCE SPLIT 14.8' - RELOCATE
 110+85 MAILBOX 14.4' - RELOCATE
 111+65 5" H. MAL. 15.0' - RELOCATE
 111+89 3" MAPLE 40.5'
 111+54 BUILDING 55.7'
 111+89 BUILDING HOUSE 55.4'
 111+88 FM RAIL 16.6' - RELOCATE
 111+85 SATELITE DISH 37.9'
 111+89 2" PINE 28.7' - REMOVE
 112+13 2" TREE 61.9'
 112+33 63.9'
 112+51 2" TREE 90.8'
 112+64 3/8" TREE 86.2'
 112+81 3/8" TREE 84.6'
 114+13 6" TREE 33.4'
 114+16 6" TREE 32.9'
 114+37 6" TREE 1.3'
 114+45 9" TREE 5.6'
 114+50 6" TREE 90.7'
 114+61 6" TREE 64.8'
 114+63 6" TREE 53.3'
 114+69 12" TREE 26.3'
 114+73 15" TREE 89.9'
 114+76 12" TREE 82.7'



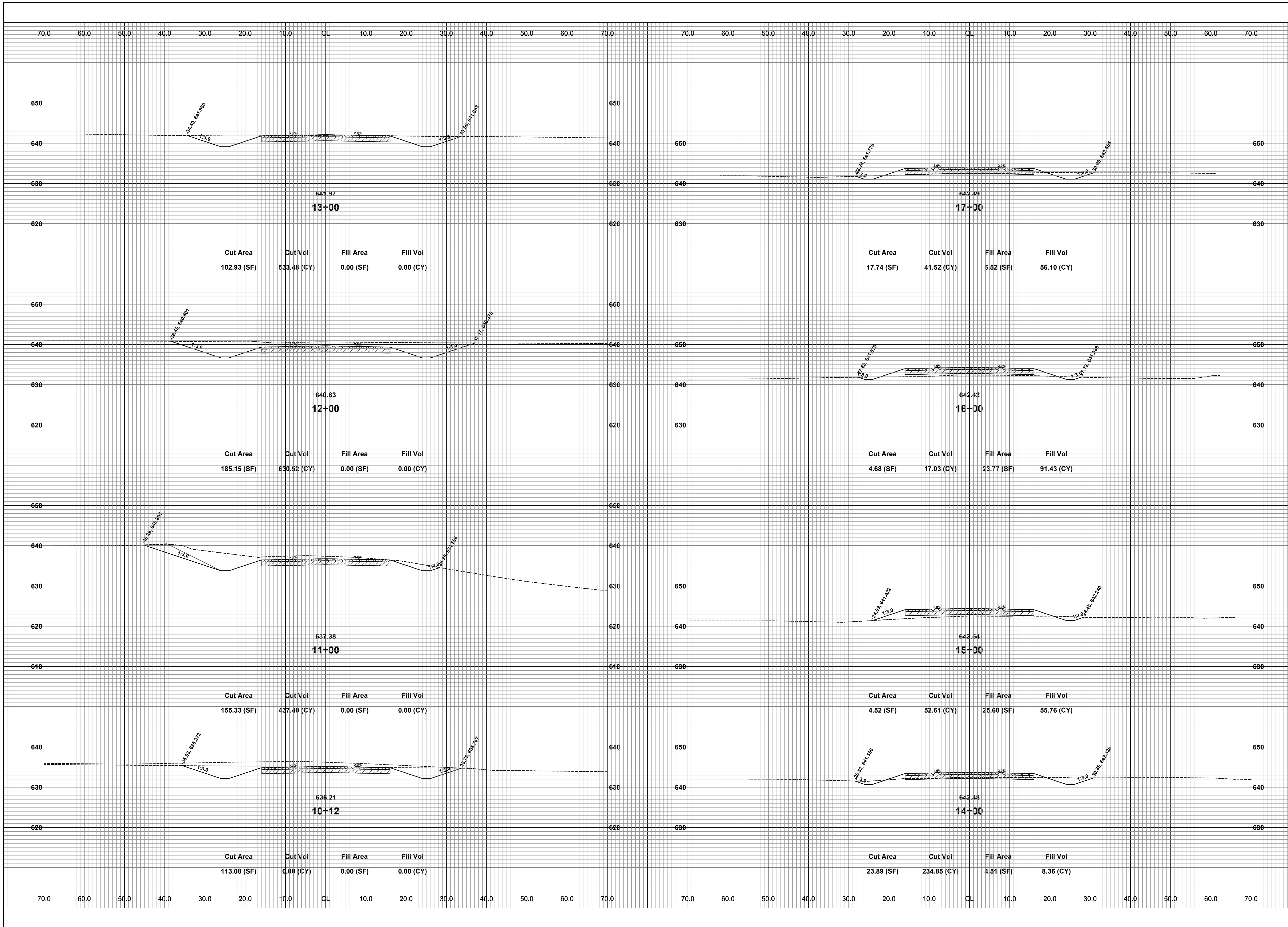
- LEGEND**
- REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CLASS II TO A DEPTH OF 6". AS DIRECTED BY THE ENGINEER IN THE FIELD, PAID FOR AS APPROACH, CL II BY THE TON.
 - SAWCUT AND REMOVE EXISTING HMA PAVEMENT. REGRADE EXISTING DRIVE OR APPROACH AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 13A (LEVELING); AND 165#/SYD HMA, 13A (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, 13A (LEVELING); AND 165#/SYD HMA, 13A (TOP). (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE)

**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

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37TH ST & 141ST AVE RECONSTRUCTION PROJECT
 OVERISEL TOWNSHIP
 141ST AVENUE PLAN & PROFILE - STA. 110+00 TO P.O.E. & CUL-DE-SAC

DRAWN BY: RPB
 REVIEWED BY: JSE
 DATE: APRIL, 2021
 SCALE: 1"= 40'H, 5V

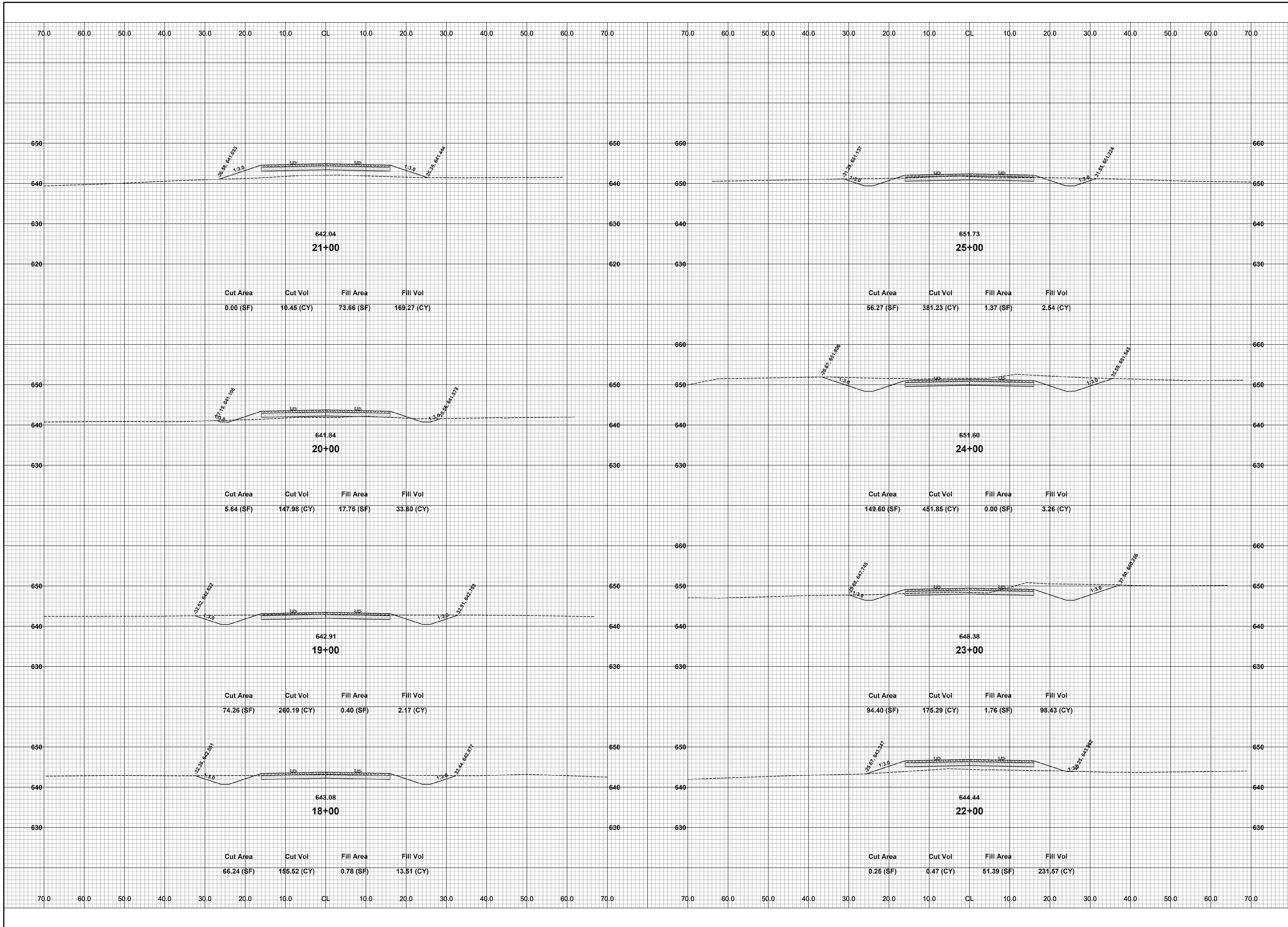


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37TH ST & 141ST AVE RECONSTRUCTION PROJECT
OVERISEL TOWNSHIP
37TH ST CROSS SECTIONS - P.O.B. TO STA. 17+00

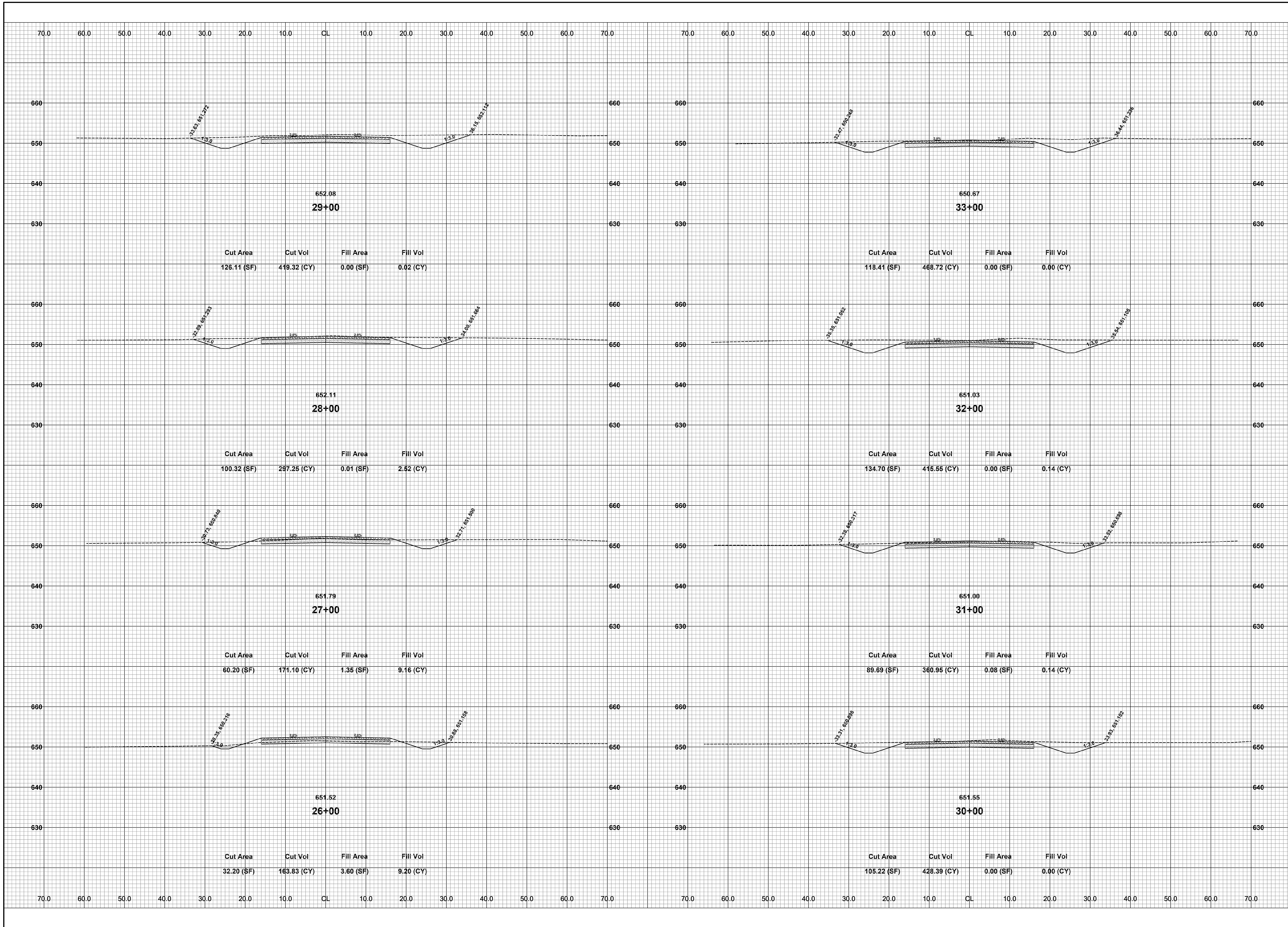
DRAWN BY: RPB
REVIEWED BY: JSE
DATE: MAY, 2021
SCALE: 1"= 10'



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37TH ST & 141ST AVE RECONSTRUCTION PROJECT
OVERISEL TOWNSHIP
37TH ST CROSS SECTIONS - STA. 18+00 TO STA. 25+00

DRAWN BY: RPB
REVIEWED BY: JSE
DATE: MAY, 2021
SCALE: 1" = 10'

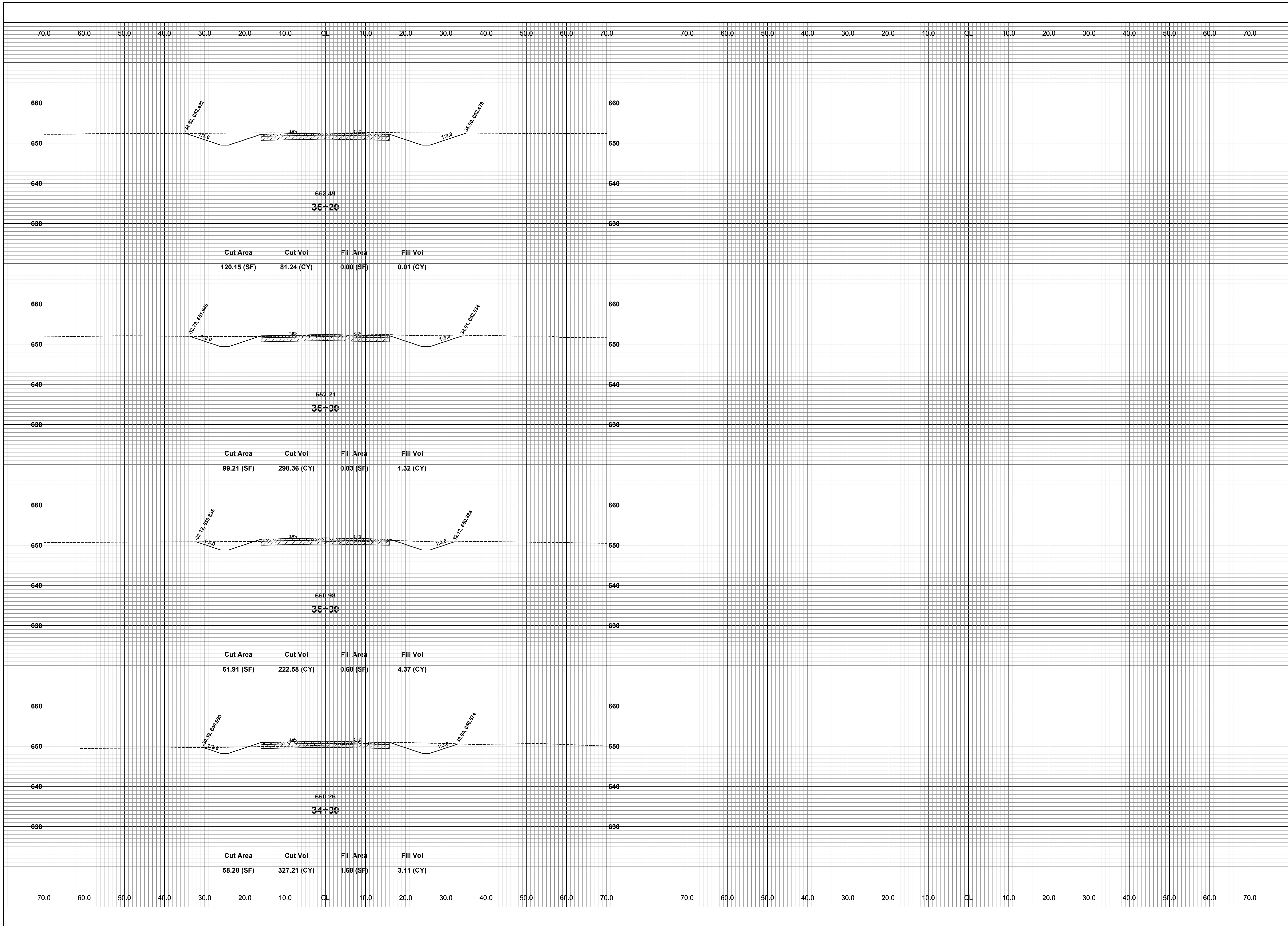


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37TH ST & 141ST AVE RECONSTRUCTION PROJECT
 OVERISEL TOWNSHIP
 37TH ST CROSS SECTIONS - STA. 26+00 TO STA. 33+00

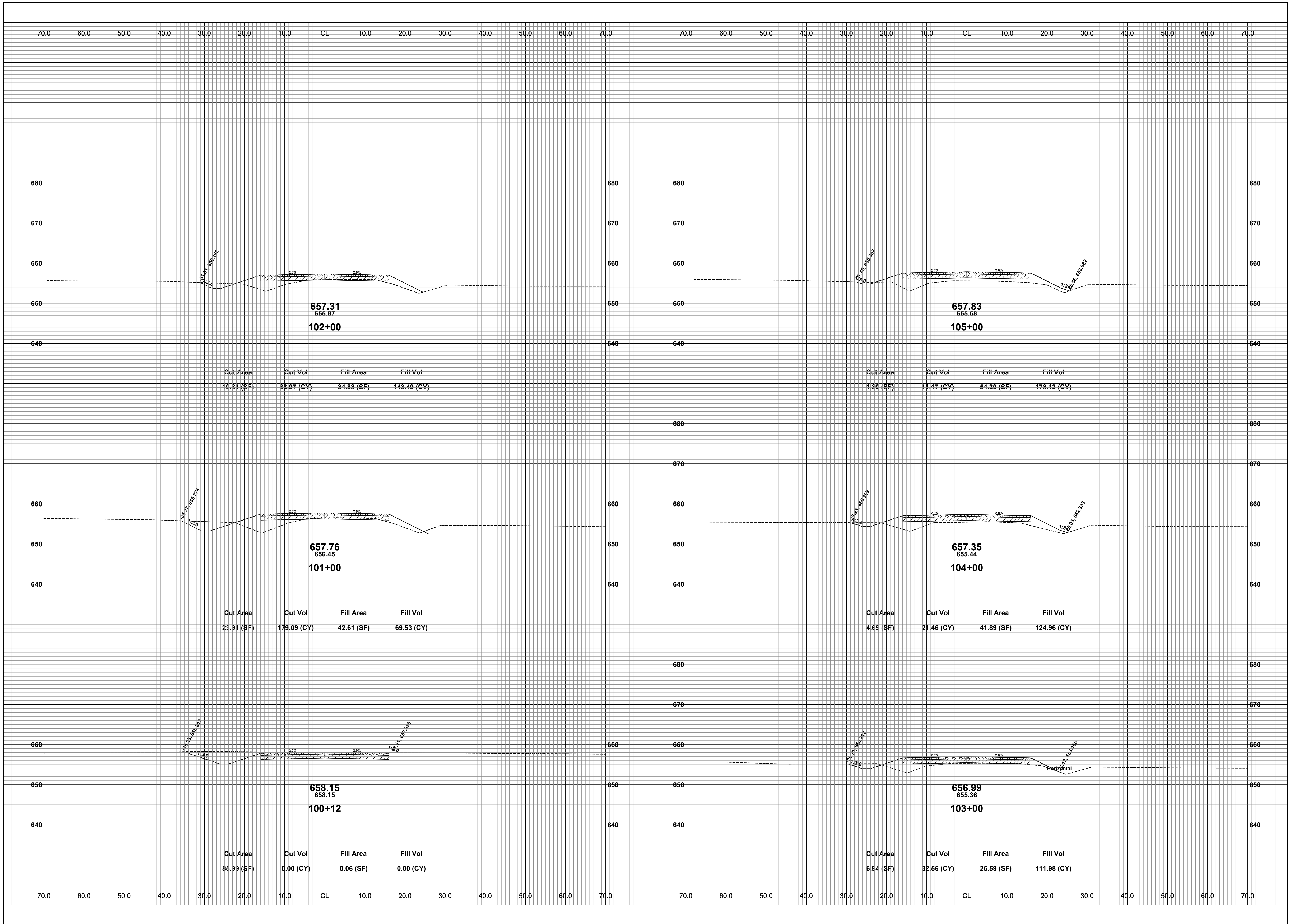
DRAWN BY: RPB
 REVIEWED BY: JSE
 DATE: MAY, 2021
 SCALE: 1"= 10'



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37TH ST & 141ST AVE RECONSTRUCTION PROJECT
 OVERISEL TOWNSHIP
 37TH ST CROSS SECTIONS - STA. 34+00 TO P.O.E.

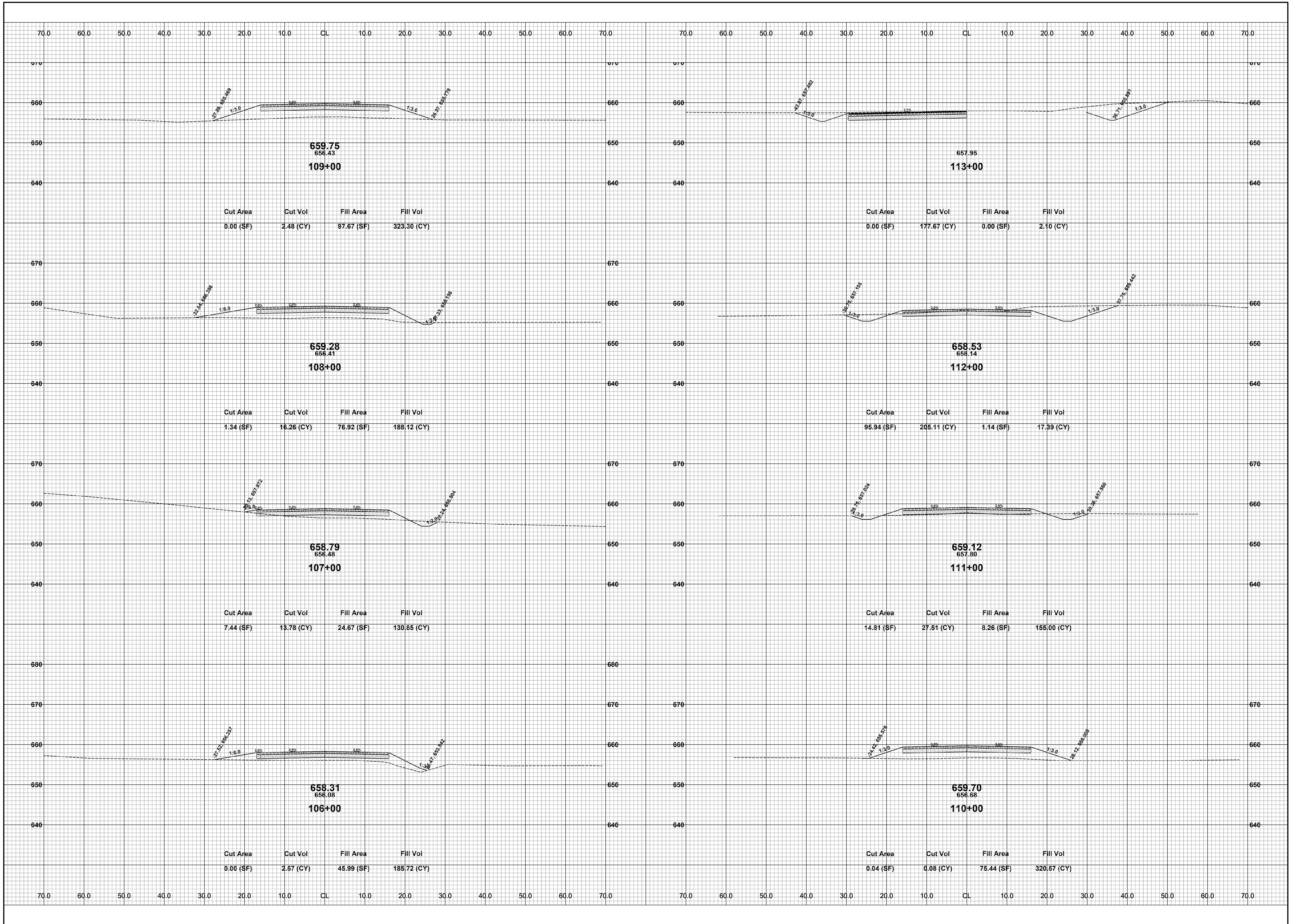
DRAWN BY: RPB
 REVIEWED BY: JSE
 DATE: MAY, 2021
 SCALE: 1" = 10'



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37TH ST & 141ST AVE RECONSTRUCTION PROJECT
OVERISEL TOWNSHIP
141ST AVE CROSS SECTIONS - P.O.B. TO STA. 105+00

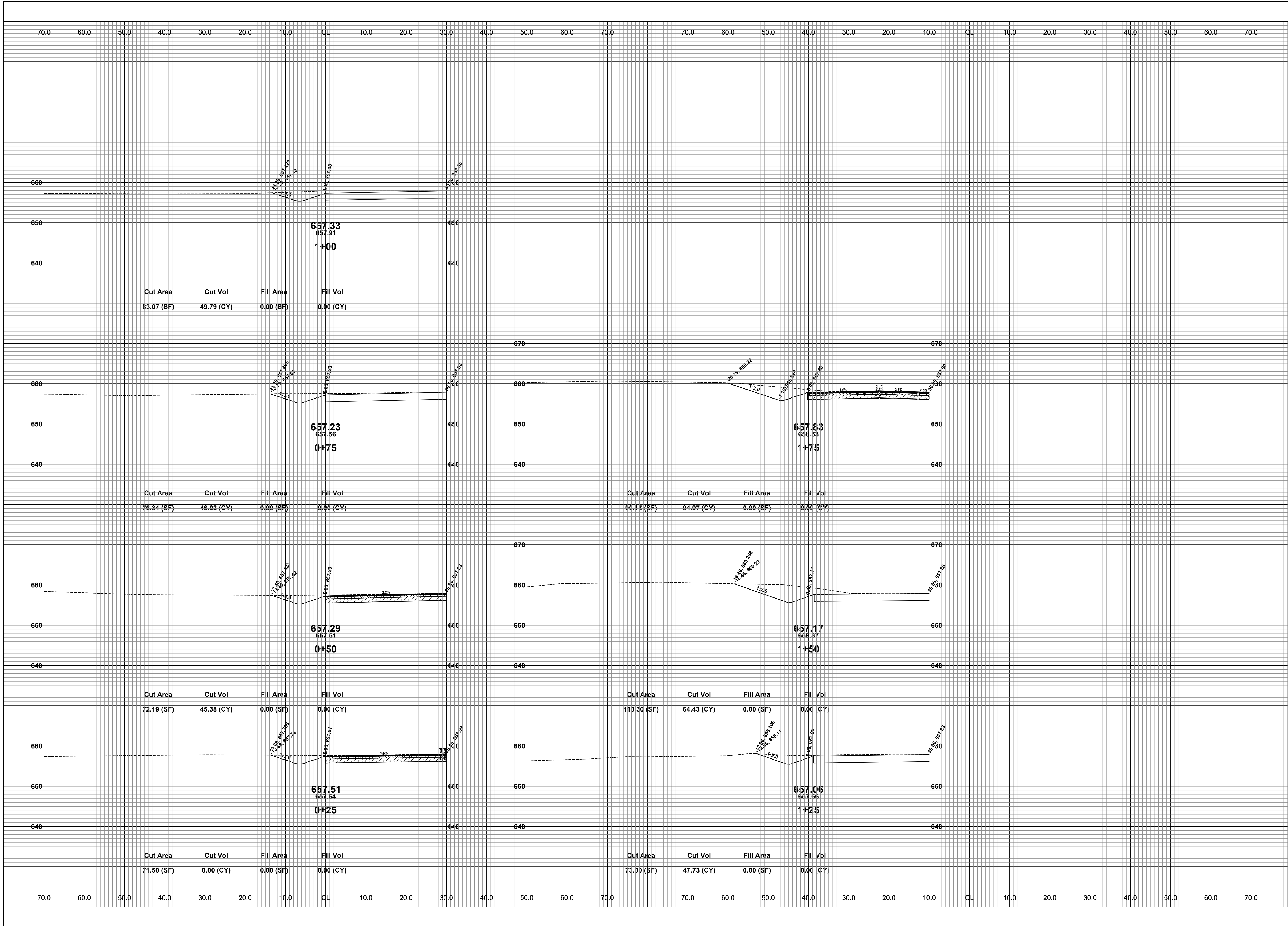
DRAWN BY: RPB
REVIEWED BY: JSE
DATE: MAY, 2021
SCALE: 1" = 10'



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37TH ST & 141ST AVE RECONSTRUCTION PROJECT
 OVERISEL TOWNSHIP
 141ST AVE CROSS SECTIONS - STA. 106+00 TO P.O.E.

DRAWN BY: RPB
 REVIEWED BY: JSE
 DATE: MAY, 2021
 SCALE: 1"= 10'

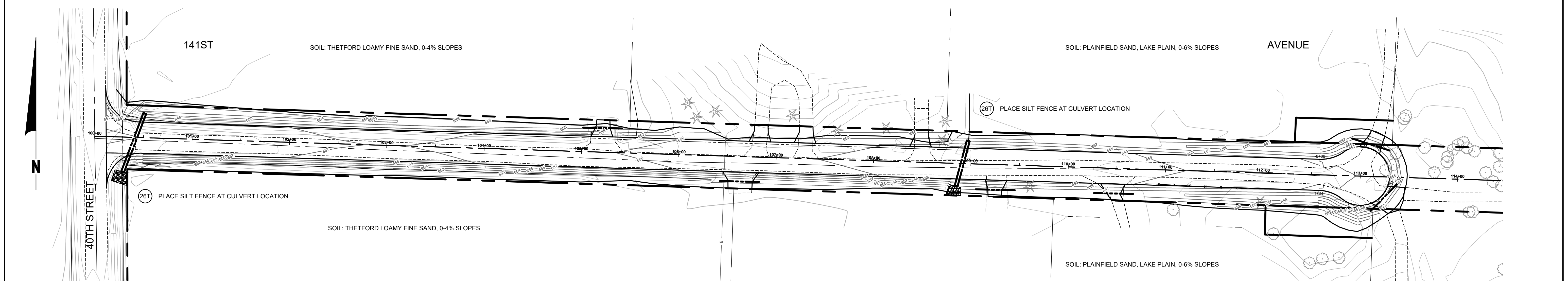
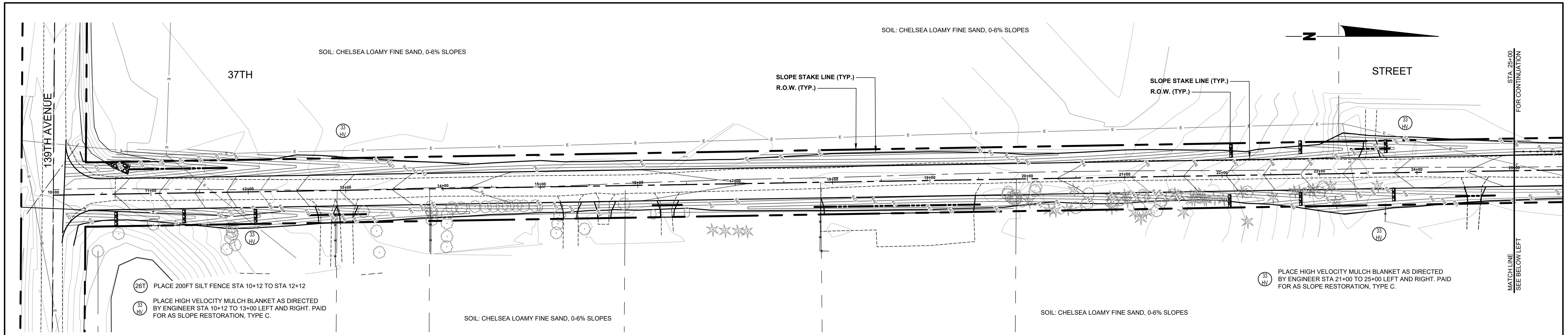


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 ALLEGAN, MICHIGAN 49010-9762
 TELEPHONE (269) 673-2184 www.alleganroads.org FAX (269) 673-5922

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37TH ST & 141ST AVE RECONSTRUCTION PROJECT
 OVERISEL TOWNSHIP
 141ST AVE CROSS SECTIONS - CUL-DE-SAC

DRAWN BY: RPB
 REVIEWED BY: JSE
 DATE: MAY, 2021
 SCALE: 1" = 10'



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.
- 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.
- 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.
- 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, 6 INCH) AS DIRECTED BY THE PROJECT ENGINEER.
- 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.
- 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.
- 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.

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37TH ST & 141ST AVE RECONSTRUCTION PROJECT
OVERISEL TOWNSHIP
SOIL EROSION & SEDIMENTATION CONTROL PLAN

DRAWN BY: RPB
REVIEWED BY: JSE
DATE: MAY, 2021
SCALE: 1" = 50'