

# ALLEGAN COUNTY ROAD COMMISSION

## LAKESHORE DRIVE REHABILITATION PROJECT

### 121ST AVENUE TO M-89

#### UTILITY CONTACTS

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

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

**CABLE**  
 COMCAST  
 3500 PATTERSON AVE SE  
 GRAND RAPIDS MI, 49512  
 734-359-1942  
 MR. JASON BROWN  
 jason\_brown6@cable.comcast.com

**GAS TRANSMISSION**  
 MICHIGAN GAS UTILITIES  
 742 E ALLEGAN STREET  
 OTSEGO, MI 49078  
 269-805-2188  
 MS. KELLY BAUER  
 kelly.bauer@michigangasutilities.com

\*MISS DIG\* 811

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

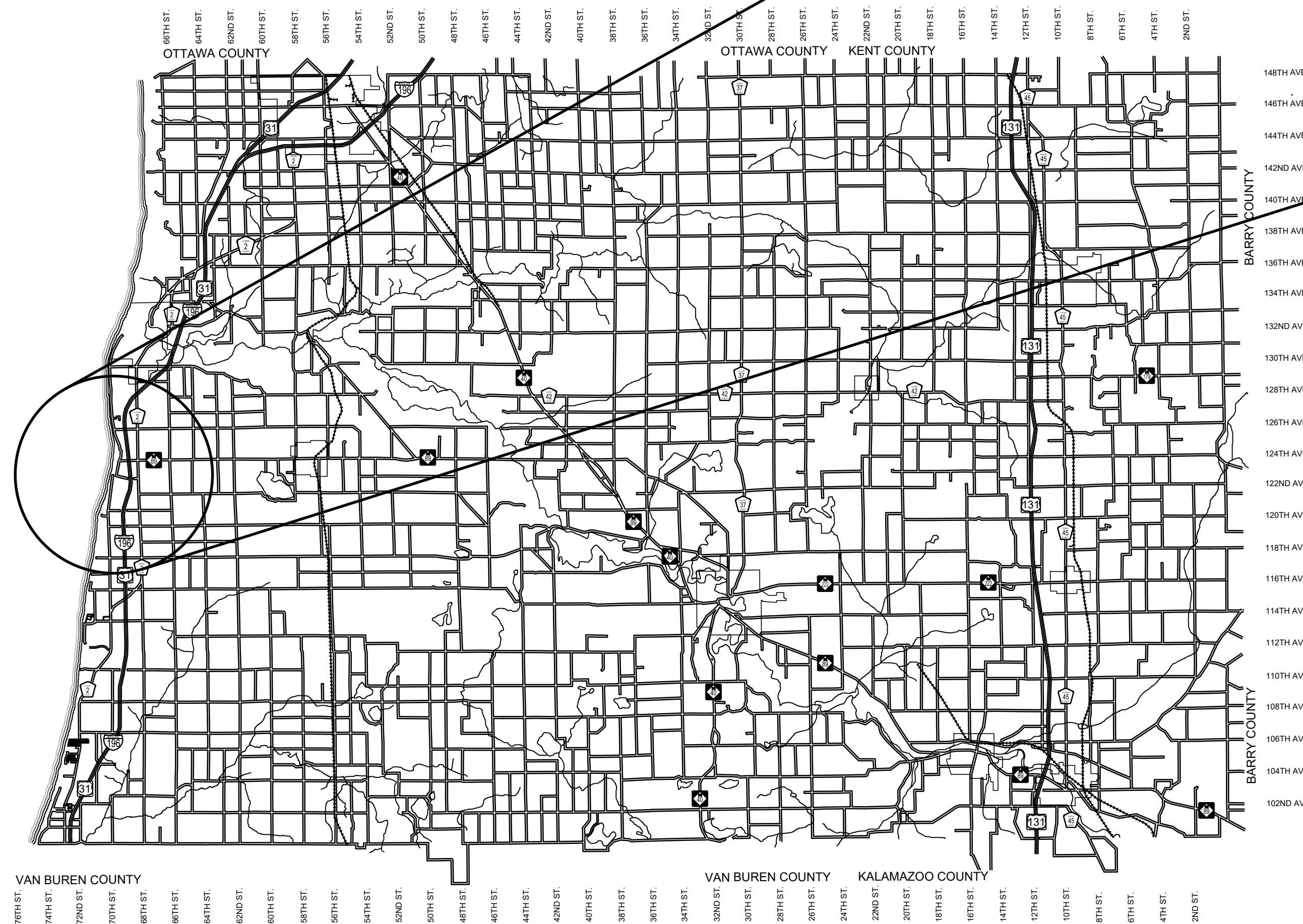
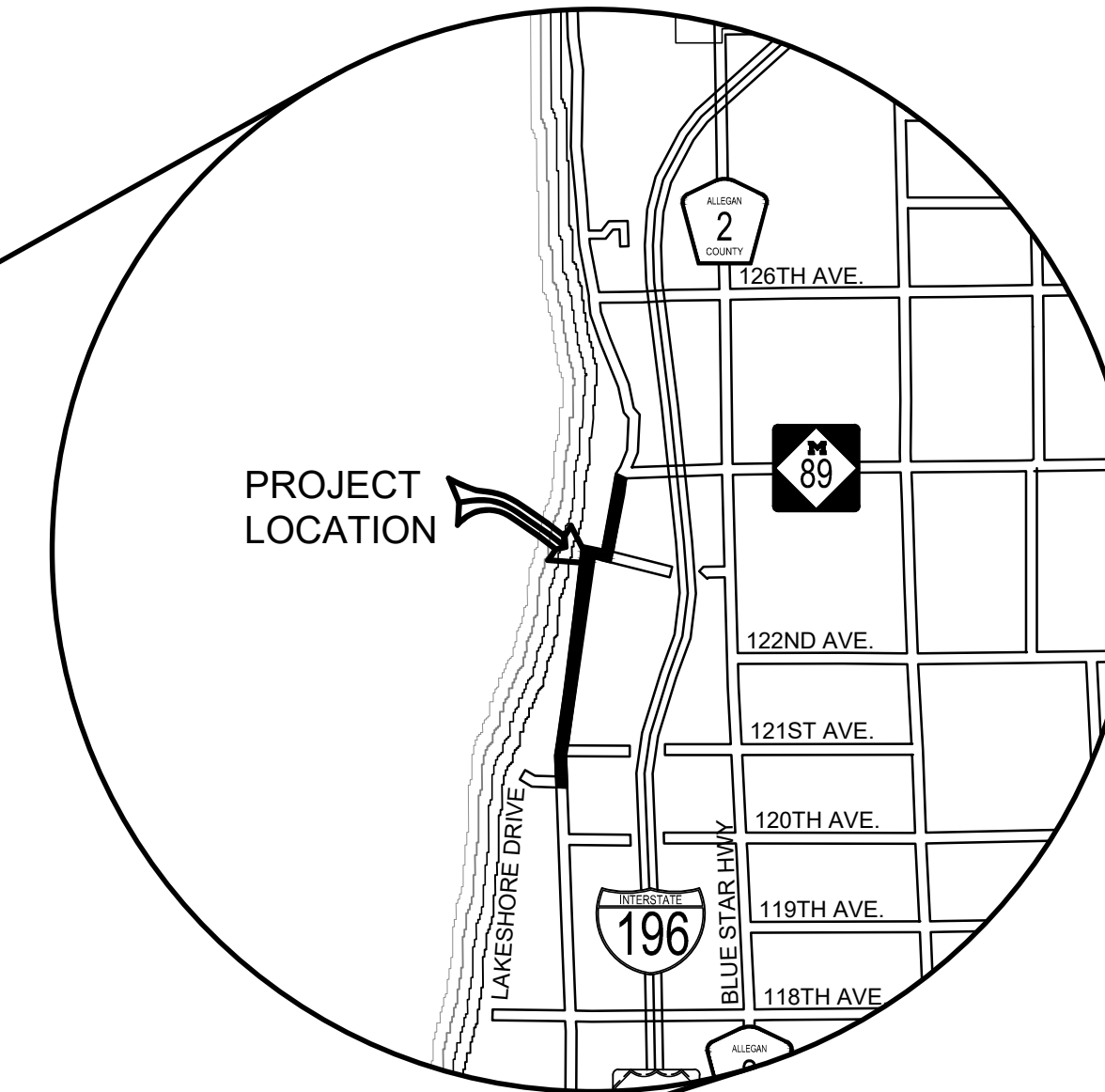
1308 LINCOLN ROAD  
 ALLEGAN, MICHIGAN 49010-9762  
 www.alleganroads.org  
 TELEPHONE (269) 673-2184 FAX (269) 673-5922

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 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.



ALLEGAN COUNTY, MICHIGAN  
 NOT TO SCALE

#### INDEX OF PLANS

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- 9 - LAKESHORE DRIVE P&P - STA. 74+00 TO 82+00
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- 11 - LAKESHORE DRIVE P&P - STA. 86+00 TO 97+00
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- 13 - LAKESHORE DRIVE P&P - STA. 108+00 TO P.O.E.
- 14 - 30 CROSS SECTIONS

#### CONTRACT FOR ROAD IMPROVEMENTS

1.85 MILES OF ROADWAY REHABILITATION INCLUDING CLEARING, CRUSHING AND SHAPING, TRENCHING, WIDENING, AGGREGATE BASE, CULVERT REPLACEMENTS, HMA PAVING, AND RESTORATION ON LAKESHORE DRIVE FROM 121ST AVENUE TO M-89 IN GANGES TOWNSHIP, ALLEGAN COUNTY.

PREPARED UNDER THE SUPERVISION OF:

RYAN P. BROWN  
 REGISTERED PROFESSIONAL ENGINEER No. 65933

REVISIONS	
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LAKESHORE DRIVE REHABILITATION PROJECT  
 GANGES TOWNSHIP - 121ST AVENUE TO M-89

COVER SHEET

DRAWN BY: RPB  
 REVIEWED BY: JSE  
 DATE: FEBRUARY, 2021  
 SCALE: NONE

PH 3563 1

**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 JANUARY 15, 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 SHEETS FOR SOIL BORING DATA.

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

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. AREAS TO USE HIGH VELOCITY MULCH BLANKET, TO BE PAID AS SLOPE RESTORATION TYPE C WILL BE DIRECTED BY THE ENGINEER IN THE FIELD.

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. CONSUMERS ELECTRIC IS WORKING TO RELOCATE POLES IN CONFLICT WITH WIDENING.

**MISCELLANEOUS QUANTITIES**

DESCRIPTION	QUANTITY	UNIT
SUBBASE, CIP	500	CYD
SUBGRADE UNDERCUTTING, TYPE II	500	CYD
AGGREGATE, 6A	50	TON
GEOTEXTILE, STABILIZATION	1500	SYD
RIPRAP, PLAIN	75	SYD
EROSION CONTROL, SILT FENCE	300	FT
APPROACH, CL II	75	TON
CULV, CL, CONC, 18 INCH	40	FT
CULV END SECT, CONC, 18 INCH	2	EA
CULV, CL, F, 12 INCH	160	FT
CULV, CL, F, 18 INCH	80	FT

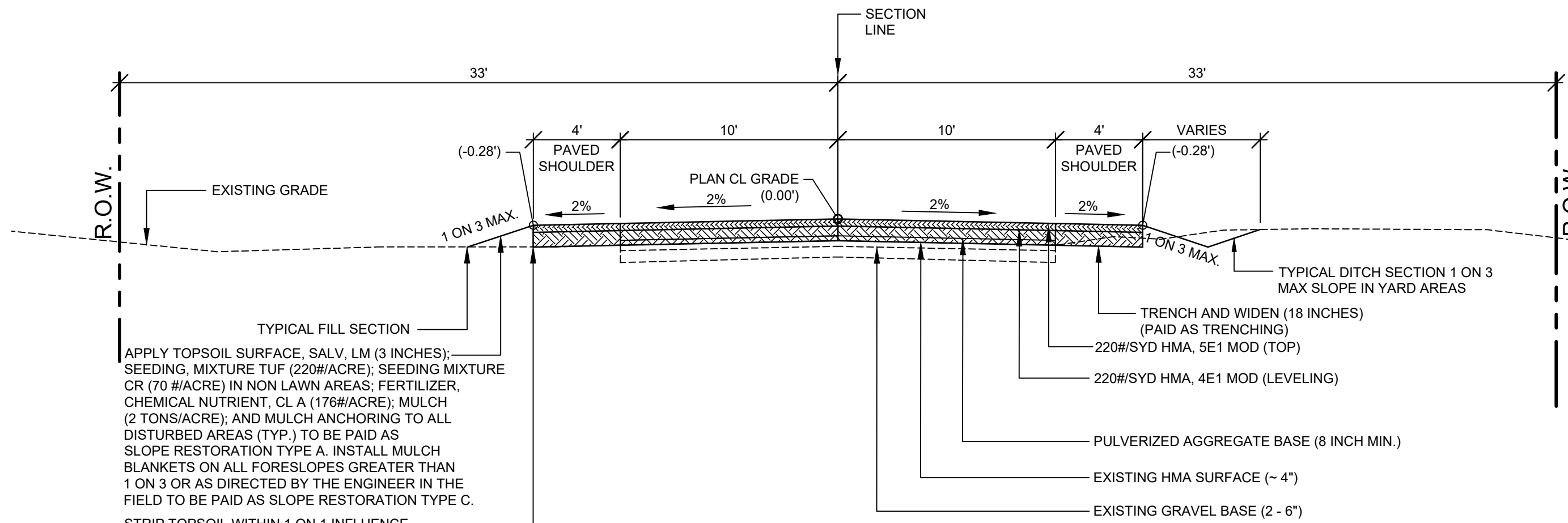
ITEM	AWI	YIELD	PERFORMANCE GRADE
HMA, 5E1, MOD (TOP)	220	220#/SYD	P.G. 64 - 28
HMA, 4E1, MOD (LEVELING)		220#/SYD	P.G. 64 - 28
HMA BOND COAT (NOT A PAY ITEM)		0.05 TO 0.15 GAL/SYD	SS - 1h

**HMA APPLICATION TABLE**

ITEM	AWI	YIELD	PERFORMANCE GRADE
HMA, 5E1, MOD (TOP)	220	220#/SYD	P.G. 64 - 28
HMA BOND COAT (NOT A PAY ITEM)		0.05 TO 0.15 GAL/SYD	SS - 1h

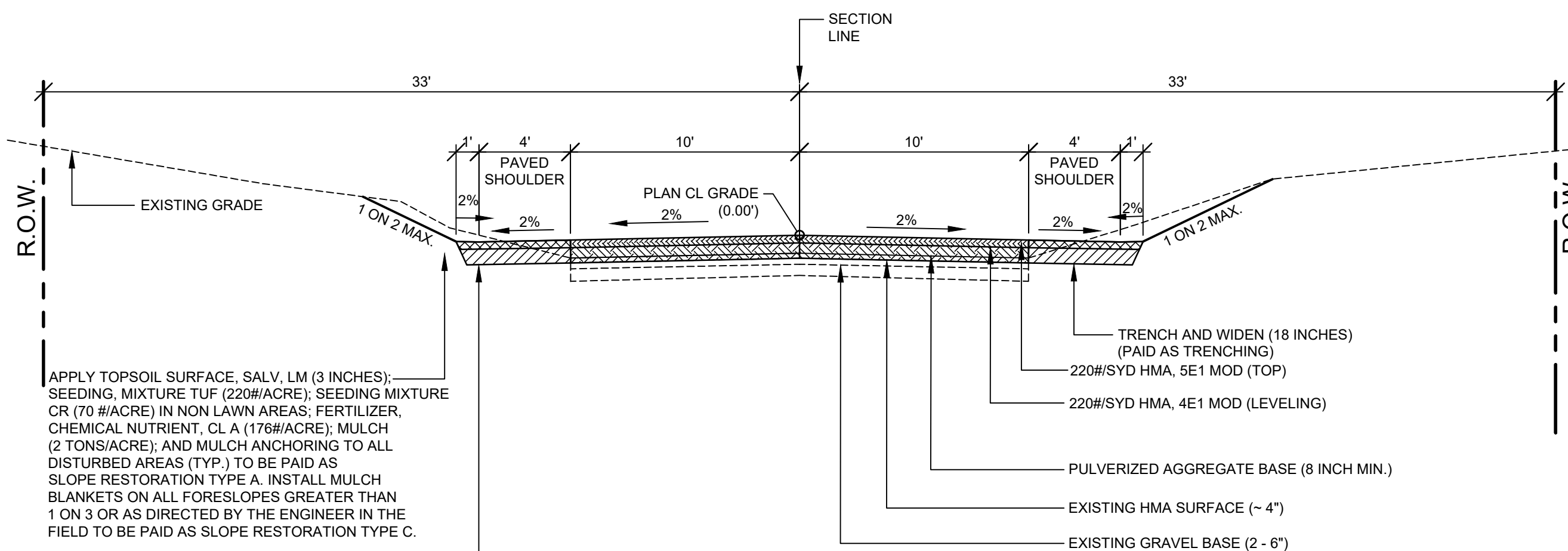
**HMA APPLICATION TABLE MILLING SECTION**

THIS SECTION APPLIES TO:  
77+50 TO 83+00



**TYPICAL SECTION - LAKESHORE DRIVE**

SCALE: 1" = 5'  
THIS SECTION APPLIES TO:  
P.O.B. TO 77+50  
83+00 TO P.O.E.



**TYPICAL VALLEY GUTTER SECTION - LAKESHORE DRIVE**

SCALE: 1" = 5'  
THIS SECTION APPLIES TO:  
19+75 TO 20+25 RIGHT  
27+00 TO 28+75 RIGHT  
36+00 TO 39+00 RIGHT  
44+25 TO 45+50 LEFT  
47+50 TO 48+50 RIGHT  
60+50 TO 65+00 RIGHT  
72+00 TO 83+00 LEFT AND RIGHT  
86+50 TO 88+50 RIGHT  
86+75 TO 88+00 LEFT  
93+75 TO 95+50 LEFT  
101+50 TO 102+50 RIGHT  
104+50 TO 105+50 LEFT AND RIGHT

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REVISIONS	NO.	DATE	DESCRIPTION
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**LAKESHORE DRIVE REHABILITATION PROJECT**  
GANGES TOWNSHIP - 121ST AVENUE TO M-89

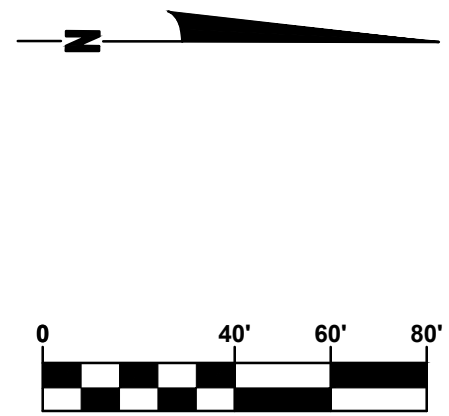
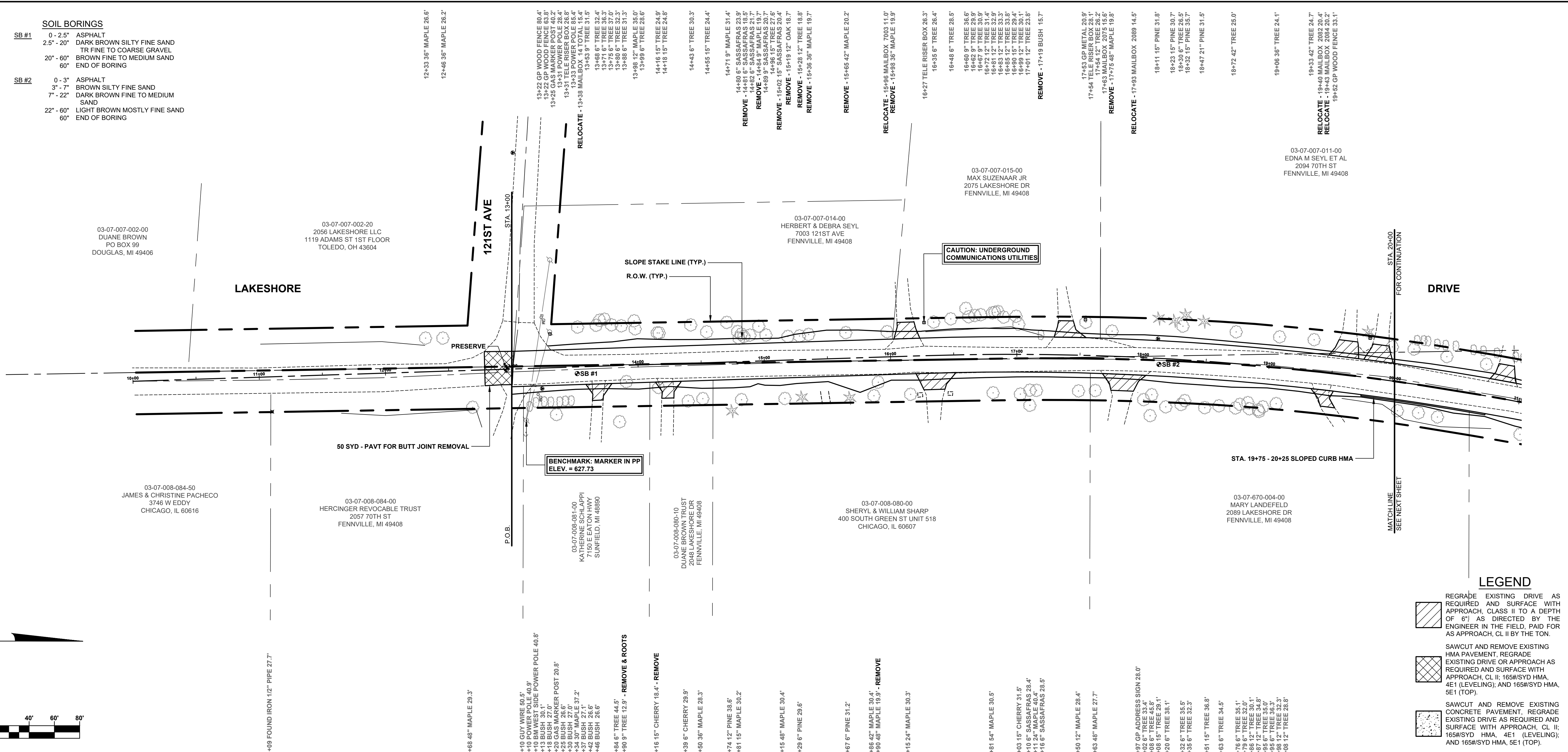
TYPICAL SECTIONS, DETAILS, & NOTES

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

PH 3563 2

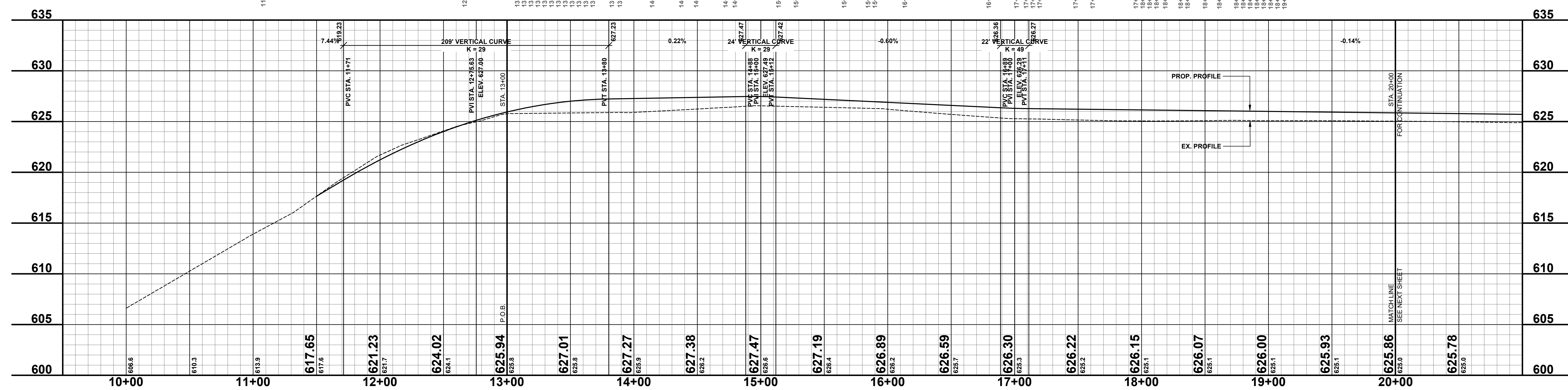
**SOIL BORINGS**

SB #1	0 - 2.5"	ASPHALT
	2.5" - 20"	DARK BROWN SILTY FINE SAND TR FINE TO COARSE GRAVEL
	20" - 60"	BROWN FINE TO MEDIUM SAND END OF BORING
SB #2	0 - 3"	ASPHALT
	3" - 7"	BROWN SILTY FINE SAND
	7" - 22"	DARK BROWN FINE TO MEDIUM SAND
	22" - 60"	LIGHT BROWN MOSTLY FINE SAND 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, 4E1 (LEVELING); AND 165#/SYD HMA, 5E1 (TOP).
- SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT, REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 4E1 (LEVELING); AND 165#/SYD HMA, 5E1 (TOP).



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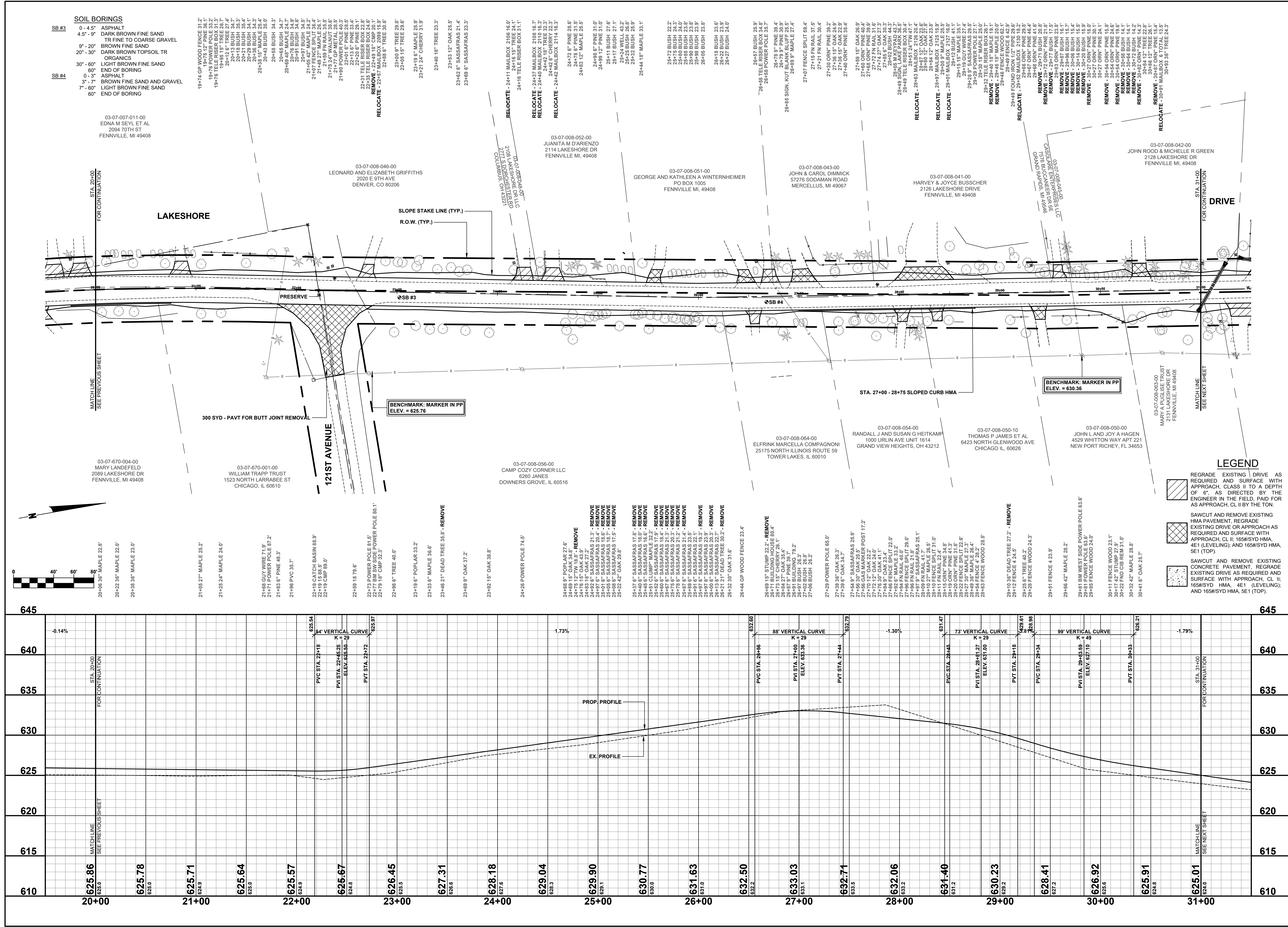
REVISIONS

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**LAKESHORE DRIVE REHABILITATION PROJECT**  
GANGES TOWNSHIP - 121ST AVENUE TO M89  
PLAN & PROFILE - STA. 10+00 TO STA. 20+00

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





**SOIL BORINGS**

SB #3	0 - 4.5' ASPHALT
	4.5' - 9' DARK BROWN FINE SAND
	9' - 20' BROWN FINE SAND
	20' - 30' DARK BROWN TOPSOIL TR
	30' - 60' ORGANICS
	60' - 60' LIGHT BROWN FINE SAND
	60' - 60' END OF BORING
SB #4	0 - 3' ASPHALT
	3' - 7' BROWN FINE SAND AND GRAVEL
	7' - 80' LIGHT BROWN FINE SAND
	80' - 80' END OF BORING

03-07-007-011-00  
EDNA M SEYL ET AL  
2094 70TH ST  
FENNVILLE, MI 49408

03-07-670-004-00  
MARY LANDEFELD  
2089 LAKESHORE DR  
FENNVILLE, MI 49408

19+74	GP WOOD FENCE 31.2'
19+75	12" PINE 38.1'
19+76	POWER POLE 33.2'
19+77	15" TREE 26.7'
19+78	15" TREE 26.7'
20+12	6" TREE 27.4'
20+13	BUSH 35.7'
20+14	BUSH 35.7'
20+21	BUSH 35.4'
20+22	BUSH 34.1'
20+23	BUSH 34.1'
20+38	15" MAPLE 28.4'
20+43	BUSH 35.0'
20+58	BUSH 34.3'
20+68	16" MAPLE 24.7'
20+81	BUSH 34.8'
20+91	BUSH 34.8'
20+97	BUSH 34.5'
21+07	FENCE SPLIT 38.4'
21+49	27" MAPLE 26.1'
21+49	7" FN RAIL 35.9'
21+77	GP METAL 28.5'
21+90	POWER POLE 40.3'
22+06	6" PINE 29.1'
22+13	6" PINE 29.1'
22+20	6" PINE 29.1'
22+31	TELE RISER BOX 22.8'
22+43	18" CHERRY 31.9'
22+48	6" TREE 29.8'
23+00	9" TREE 29.8'
23+05	15" TREE 29.8'
23+19	6" MAPLE 25.9'
23+21	14" CHERRY 31.9'
23+40	18" TREE 23.3'
23+53	12" OAK 25.5'
23+62	6" SASSAFRAS 21.4'
23+68	6" SASSAFRAS 23.3'

24+72	5" PINE 28.6'
24+75	6" PINE 31.5'
24+80	12" MAPLE 25.5'
24+98	6" PINE 31.0'
25+11	BUSH 27.6'
25+17	BUSH 27.1'
25+24	WELL 43.2'
25+32	BUSH 23.9'
25+44	18" MAPLE 33.1'
25+72	BUSH 22.2'
25+75	BUSH 24.3'
25+80	BUSH 23.8'
25+85	BUSH 23.8'
25+90	BUSH 23.8'
25+96	BUSH 23.9'
26+18	BUSH 23.6'
26+22	BUSH 23.9'
26+27	BUSH 24.0'
26+47	BUSH 25.9'
26+58	TELE RISER BOX 34.8'
26+78	9" PINE 39.4'
27+15	FN RAIL 30.4'
27+21	FN RAIL 30.4'
27+30	ORN' PINE 39.2'
27+35	15" OAK 24.9'
27+40	ORN' PINE 38.4'
27+49	15" OAK 26.9'
27+50	15" OAK 26.9'
27+51	15" OAK 26.9'
27+52	15" OAK 26.9'
27+53	15" OAK 26.9'
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27+70	15" OAK 26.9'
27+71	15" OAK 26.9'
27+72	15" OAK 26.9'
27+73	15" OAK 26.9'
27+74	15" OAK 26.9'
27+75	15" OAK 26.9'
27+76	15" OAK 26.9'
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27+81	15" OAK 26.9'
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27+97	15" OAK 26.9'
27+98	15" OAK 26.9'
27+99	15" OAK 26.9'
28+00	15" OAK 26.9'

28+15	FN RAIL 30.4'
28+16	FN RAIL 30.4'
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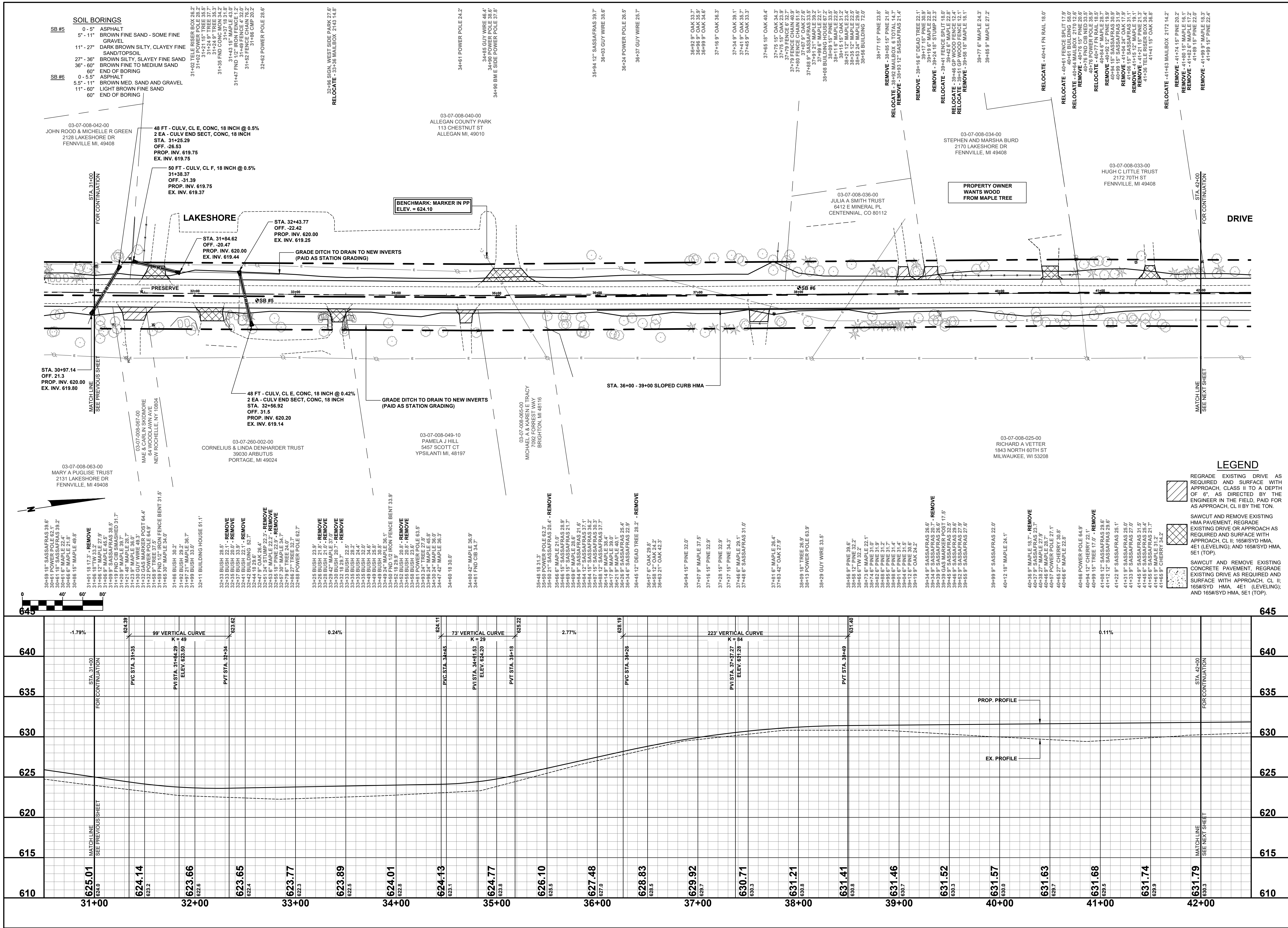
REVISIONS

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**LAKESHORE DRIVE REHABILITATION PROJECT**  
GANGES TOWNSHIP - 121ST AVENUE TO M89

PLAN & PROFILE - STA. 20+00 TO STA. 31+00

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



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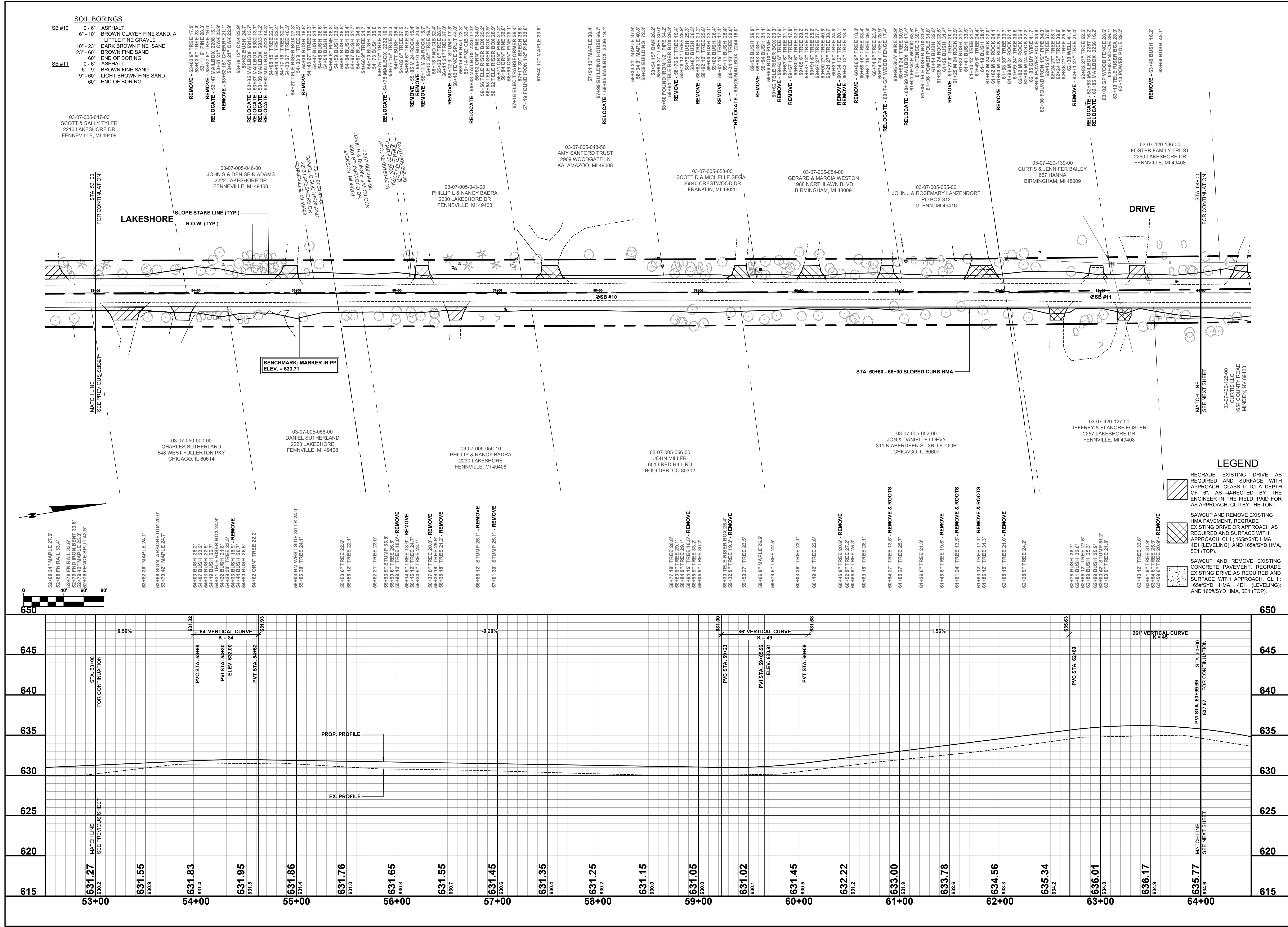
**LAKESHORE DRIVE REHABILITATION PROJECT**  
**GANGES TOWNSHIP - 121ST AVENUE TO M89**  
**PLAN & PROFILE - STA. 31+00 TO STA. 42+00**

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

PH 3563 5







**SOIL BORINGS**

SB #10	0'-6"	ASPHALT
	6'-10"	BROWN CLAYEY FINE SAND, A
	10'-23"	DARK BROWN FINE SAND
	23'-60"	BROWN FINE SAND
	60'	END OF BORING
SB #11	0'-6"	ASPHALT
	6'-10"	BROWN FINE SAND
	9'-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.
- SAWCUT AND REMOVE EXISTING HMA PAVEMENT, REGRADE EXISTING DRIVE OR APPROACH AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 4E1 (LEVELING); AND 165#/SYD HMA, 5E1 (TOP).
- SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT, REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 4E1 (LEVELING); AND 165#/SYD HMA, 5E1 (TOP).

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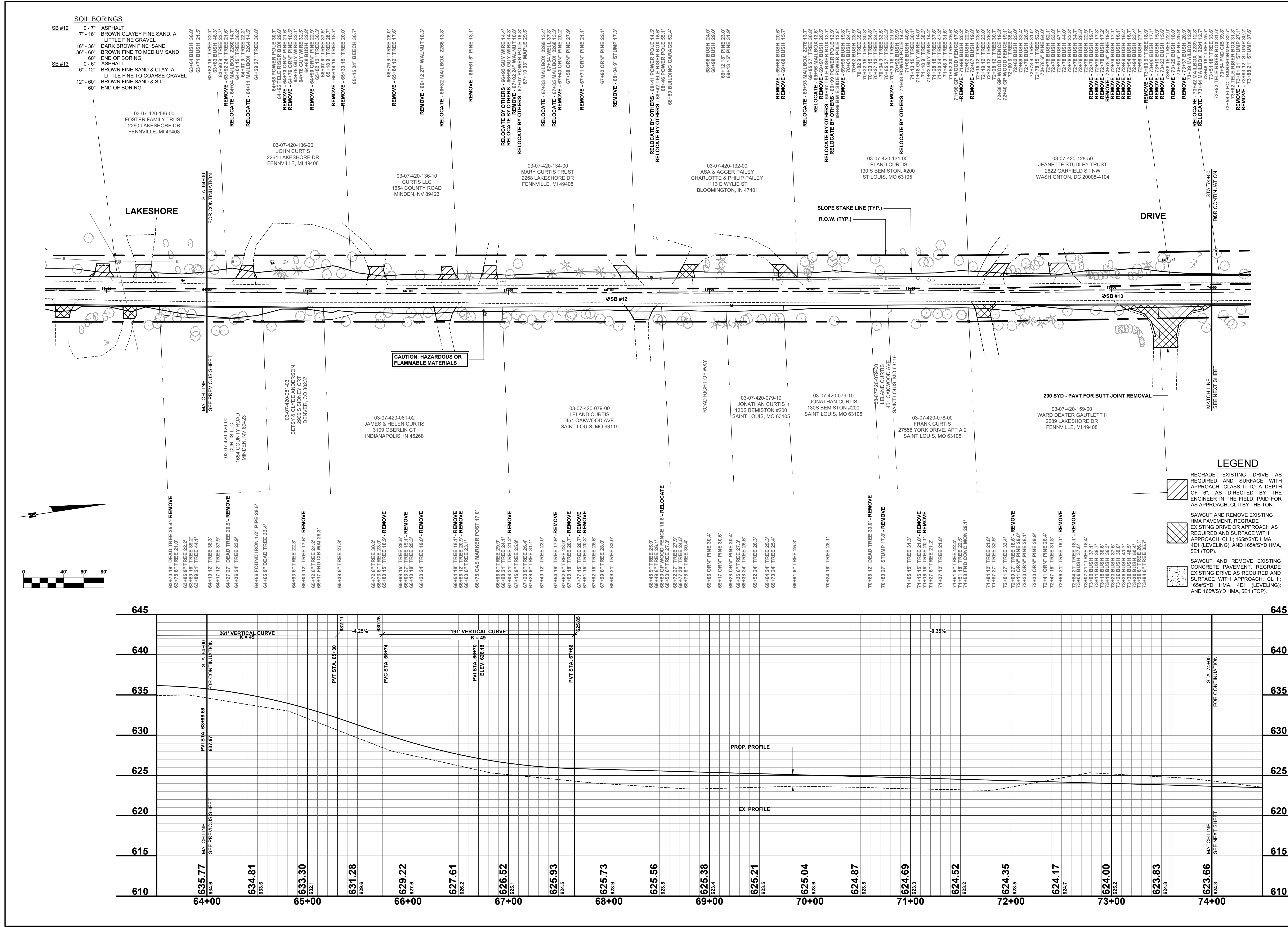
**LAKESHORE DRIVE REHABILITATION PROJECT**  
 GANGES TOWNSHIP - 121ST AVENUE TO M89  
 PLAN & PROFILE - STA. 53+00 TO STA. 64+00

**REVISIONS**

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

PH 3563 7



**SOIL BORINGS**

SB #12	0' - 7"	ASPHALT
	7" - 16"	BROWN CLAYEY FINE SAND, A LITTLE FINE GRAVEL
	16" - 36"	DARK BROWN FINE SAND
	36" - 60"	BROWN FINE TO MEDIUM SAND
	60" - 61"	END OF BORING
SB #13	0' - 5"	ASPHALT
	6" - 12"	BROWN FINE SAND & CLAY, A LITTLE FINE TO COARSE GRAVEL
	12" - 60"	BROWN FINE SAND & SILT
	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, 4E1 (LEVELING); AND 165#/SYD HMA, 5E1 (TOP).
- SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT, REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 4E1 (LEVELING); AND 165#/SYD HMA, 5E1 (TOP).

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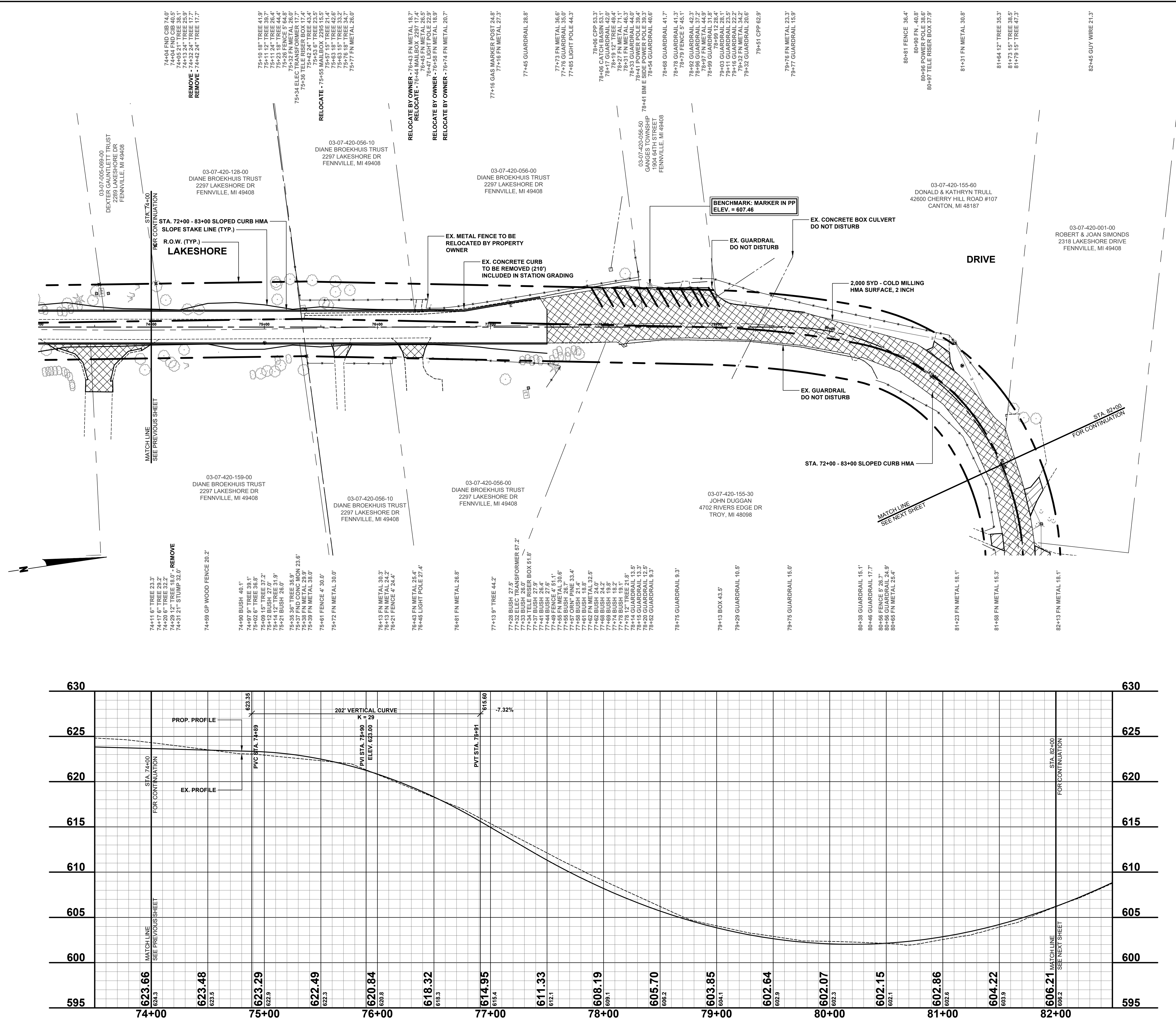
REVISIONS

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**LAKESHORE DRIVE REHABILITATION PROJECT**  
GANGES TOWNSHIP - 121ST AVENUE TO M89  
PLAN & PROFILE - STA. 64+00 TO STA. 74+00

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





**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, 4E1 (LEVELING); AND 165#/SYD HMA, 5E1 (TOP).
- SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT, REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 4E1 (LEVELING); AND 165#/SYD HMA, 5E1 (TOP).

0 40' 60' 80'

REVISIONS

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**LAKESHORE DRIVE REHABILITATION PROJECT**  
 GANGES TOWNSHIP - 121ST AVENUE TO M89

PLAN & PROFILE - STA. 74+00 TO STA. 82+00

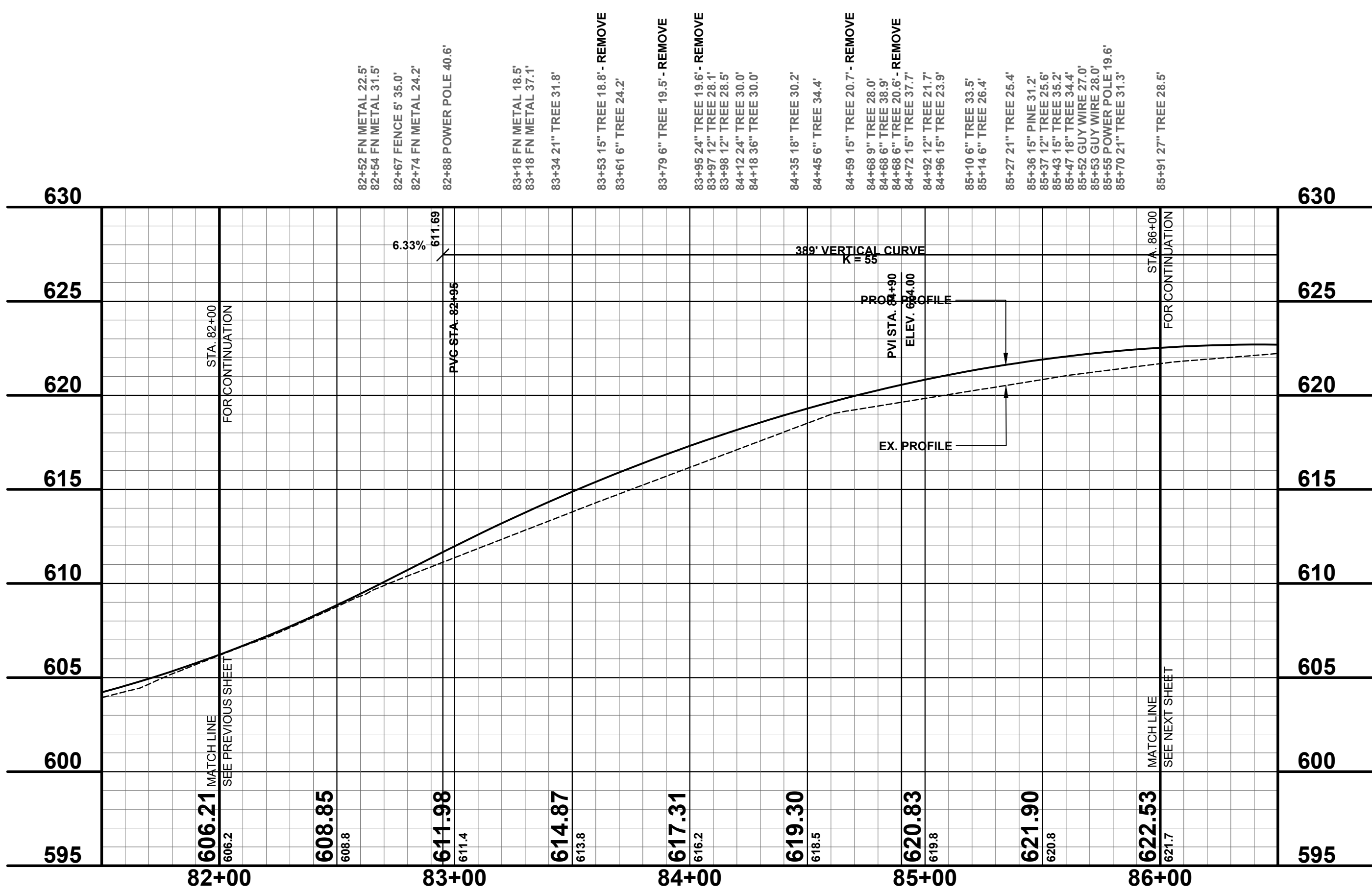
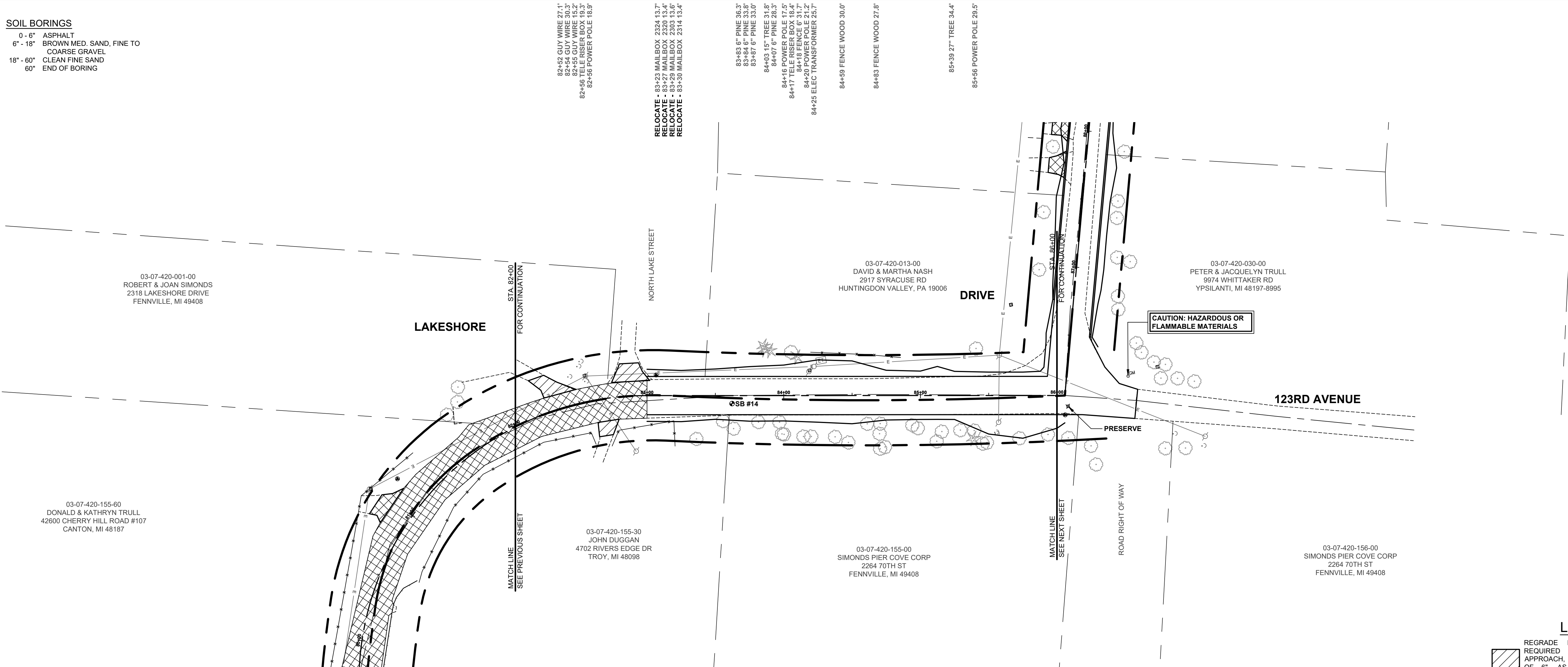
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 REVIEWED BY: RPB  
 DATE: FEBRUARY, 2021  
 SCALE: 1"= 40'H, 5V

PH 3563 9

**SOIL BORINGS**

SB #14	0' - 6"	ASPHALT
	6" - 18"	BROWN MED. SAND, FINE TO COARSE GRAVEL
	18" - 60"	CLEAN 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.
- SAWCUT AND REMOVE EXISTING HMA PAVEMENT, REGRADE EXISTING DRIVE OR APPROACH AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 4E1 (LEVELING); AND 165#/SYD HMA, 5E1 (TOP).
- SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT, REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 4E1 (LEVELING); AND 165#/SYD HMA, 5E1 (TOP).

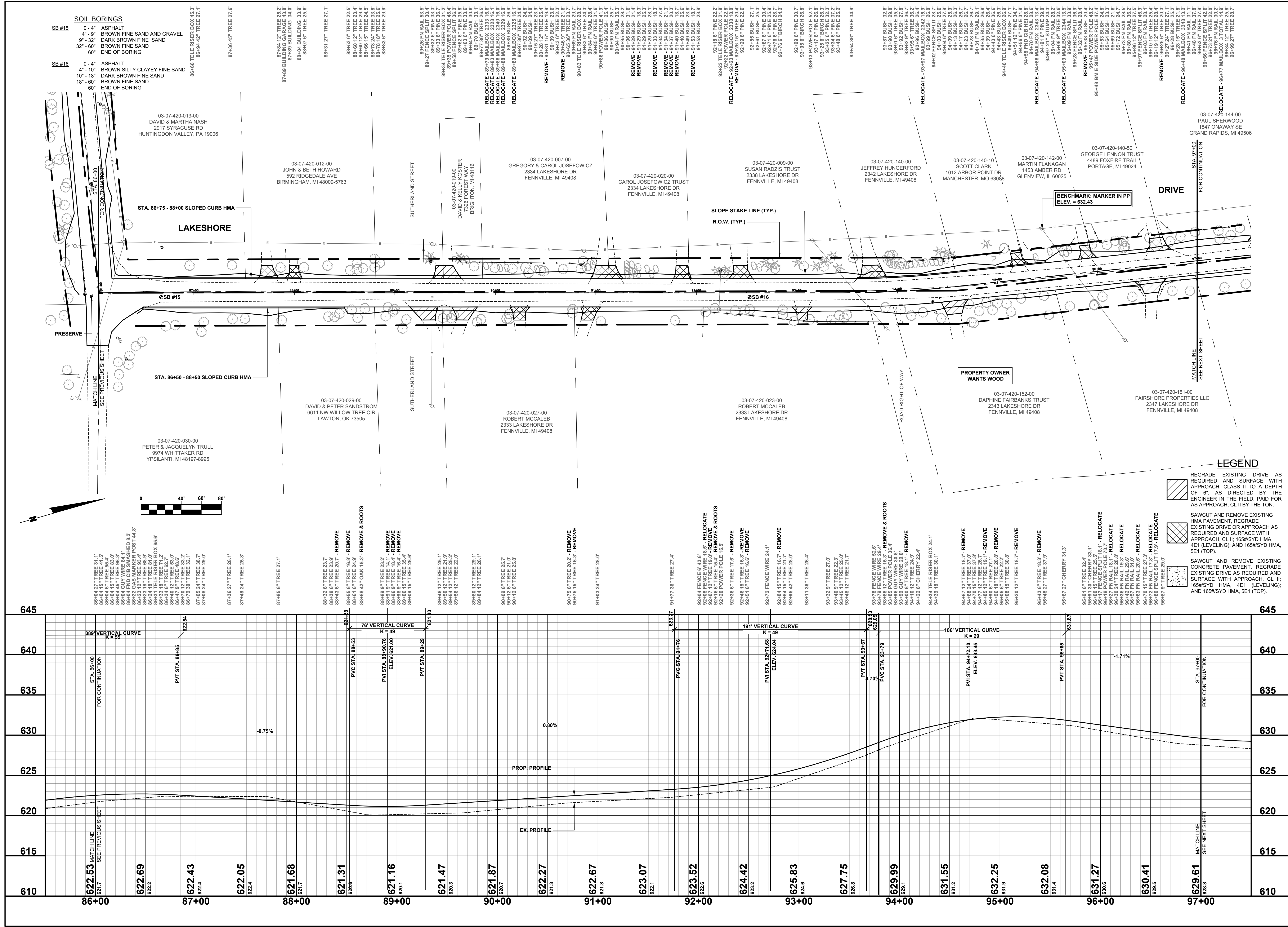
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REVISIONS

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**LAKESHORE DRIVE REHABILITATION PROJECT**  
GANGES TOWNSHIP - 121ST AVENUE TO M89  
PLAN & PROFILE - STA. 82+00 TO STA. 86+00

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



REVISIONS

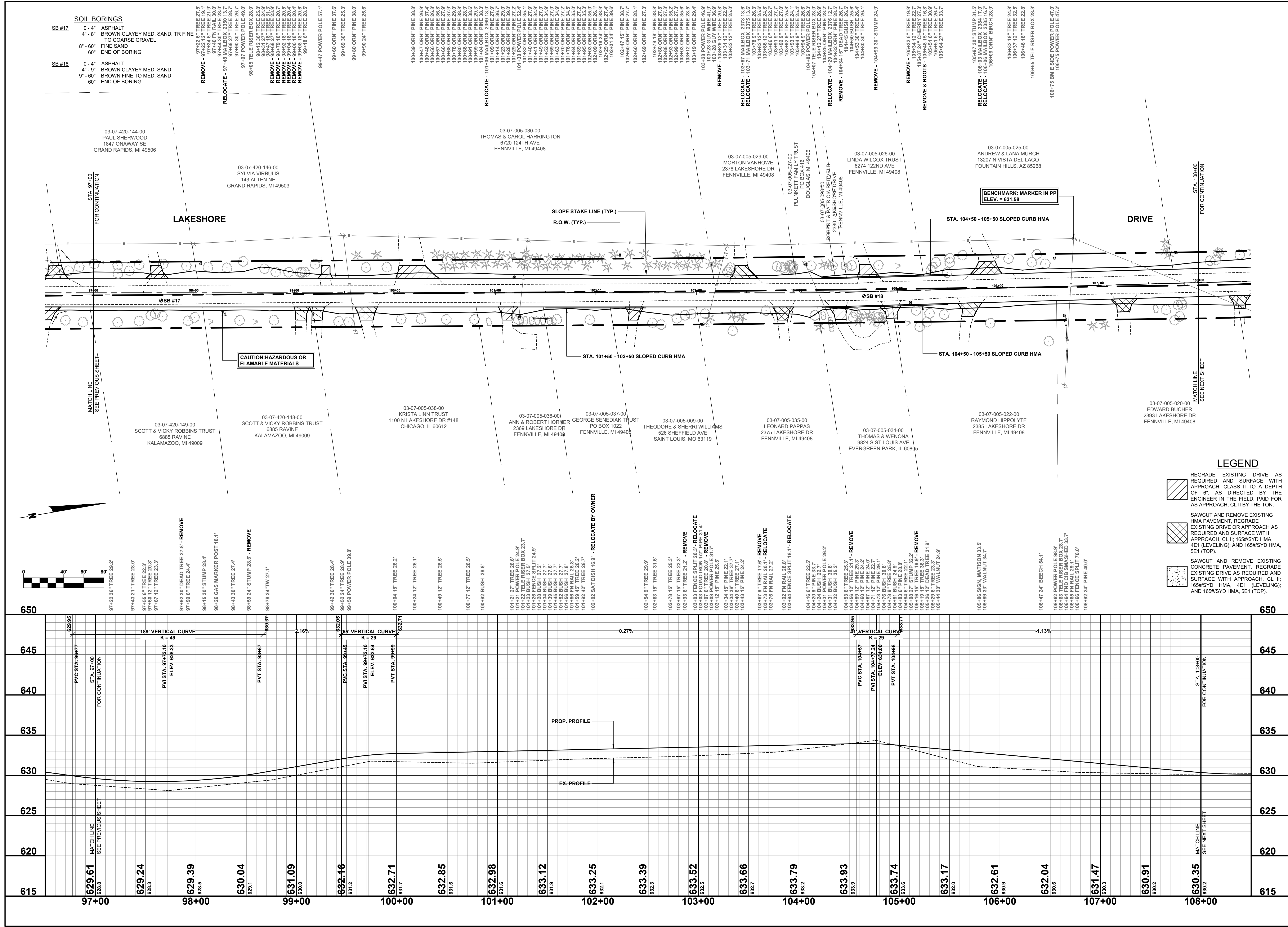
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**LAKESHORE DRIVE REHABILITATION PROJECT**  
GANGES TOWNSHIP - 121ST AVENUE TO M89

PLAN & PROFILE - STA. 86+00 TO STA. 97+00

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



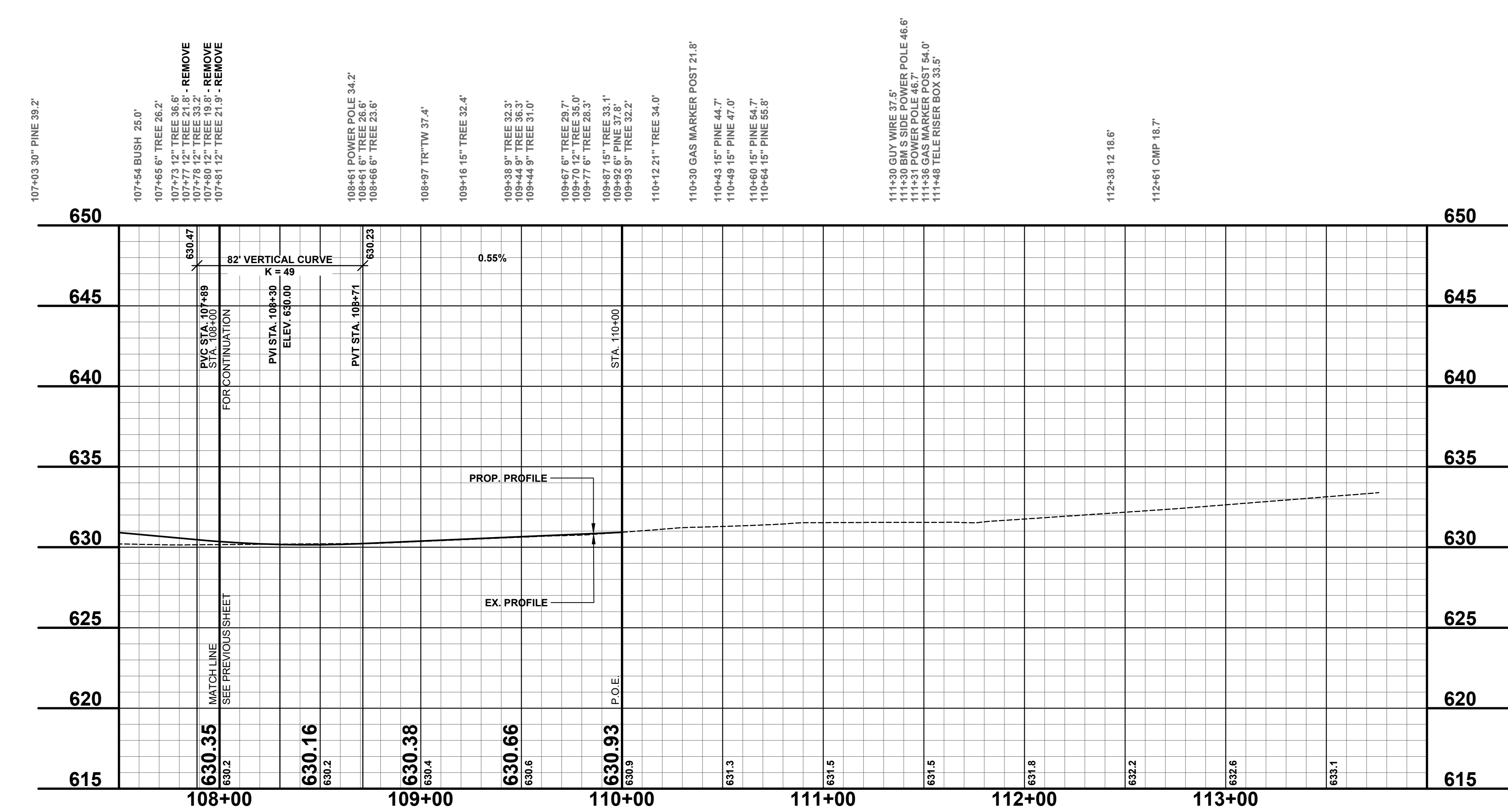
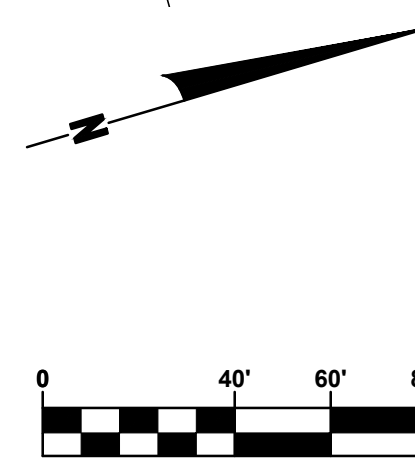
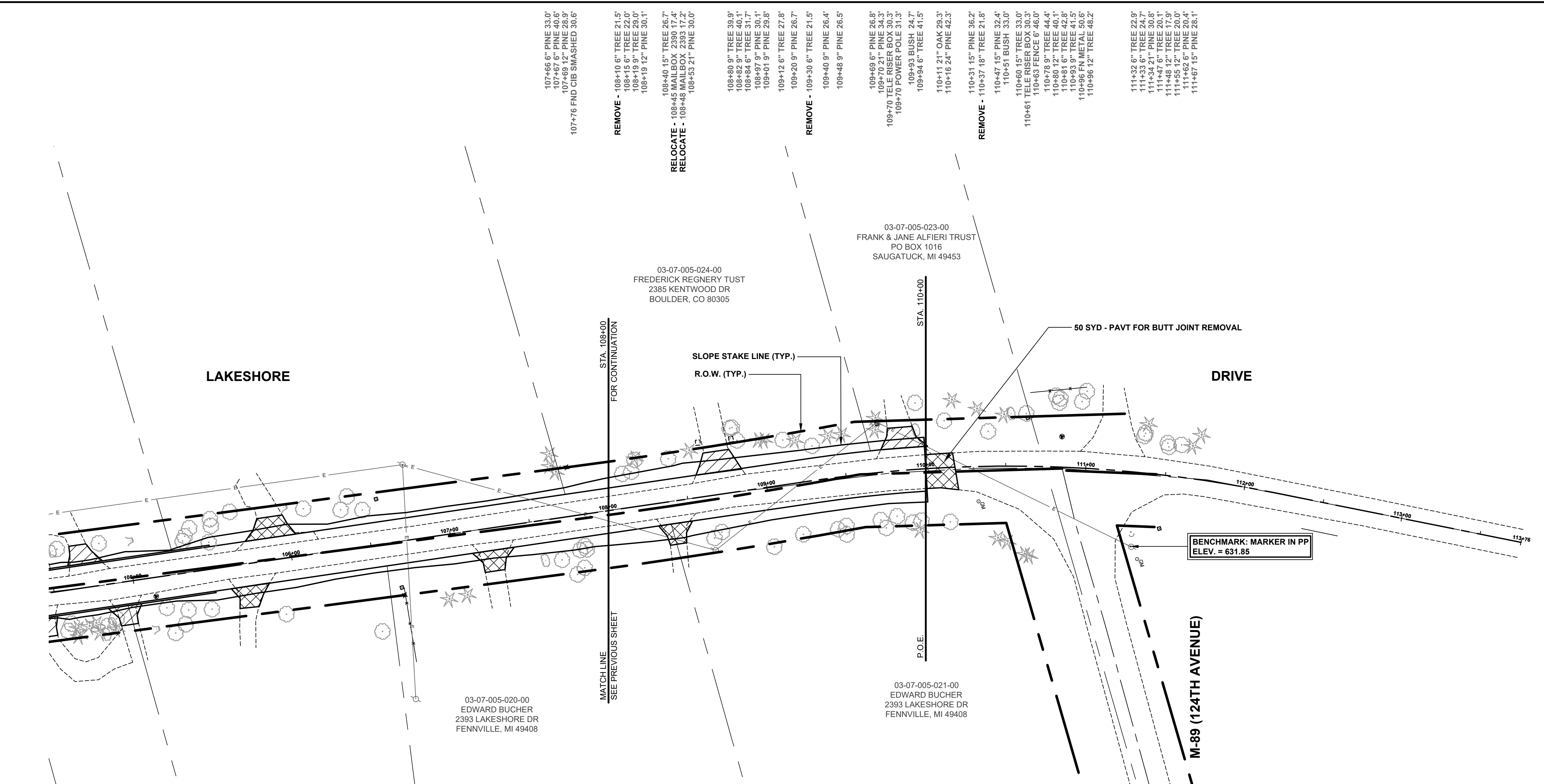


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**LAKESHORE DRIVE REHABILITATION PROJECT**  
GANGES TOWNSHIP - 121ST AVENUE TO M89

PLAN & PROFILE - STA. 97+00 TO STA. 108+00

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



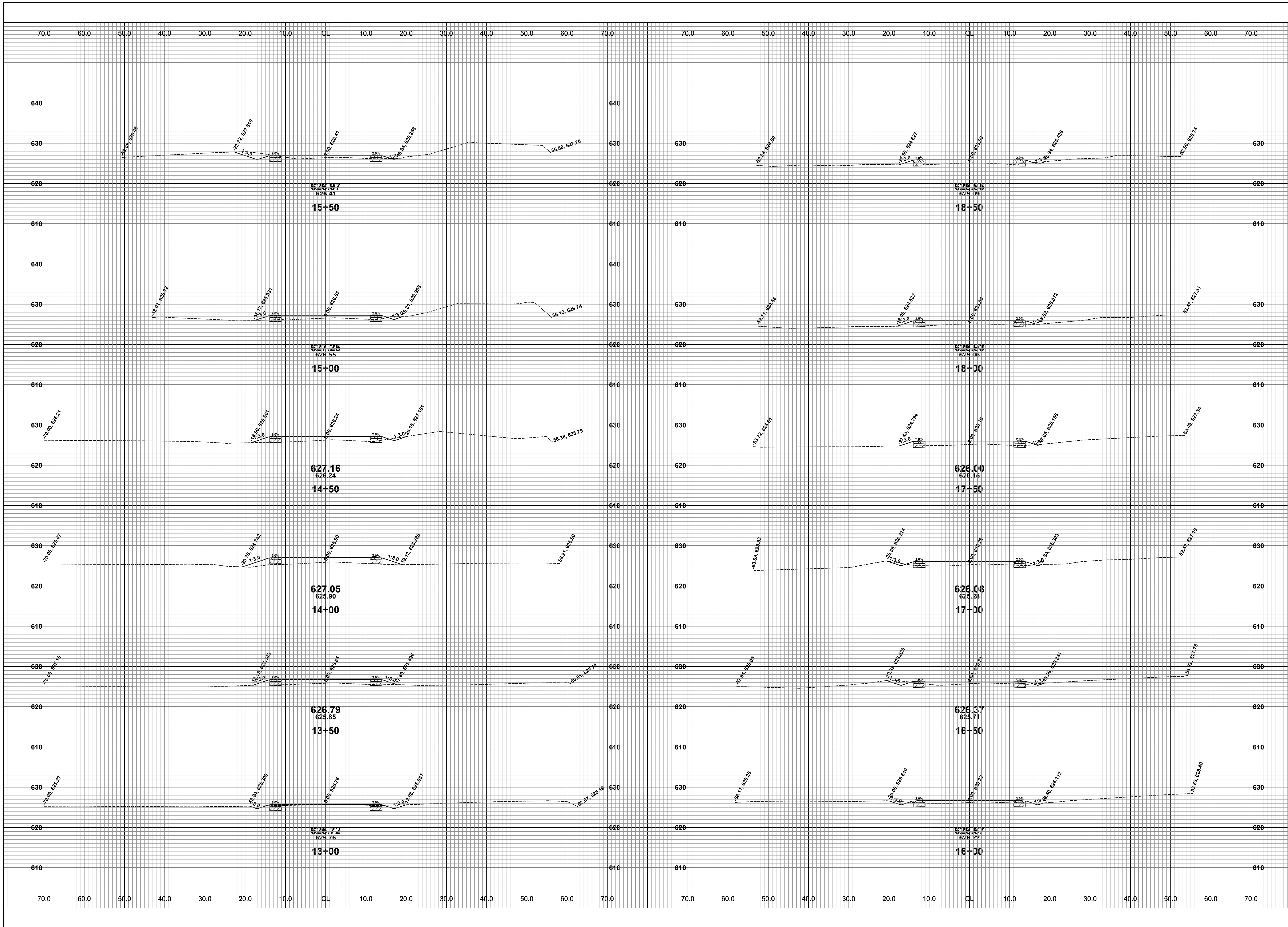
- LEGEND**
- REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CLASS II TO A DEPTH OF 6". AS DIRECTED BY THE ENGINEER IN THE FIELD, PAID FOR AS APPROACH, CL II BY THE TON.
  - SAWCUT AND REMOVE EXISTING HMA PAVEMENT, REGRADE EXISTING DRIVE OR APPROACH AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 4E1 (LEVELING); AND 165#/SYD HMA, 5E1 (TOP).
  - SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT, REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 4E1 (LEVELING); AND 165#/SYD HMA, 5E1 (TOP).

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REVISIONS	
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**LAKESHORE DRIVE REHABILITATION PROJECT**  
GANGES TOWNSHIP - 121ST AVENUE TO M89  
**PLAN & PROFILE - STA. 108+00 TO P.O.E.**

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



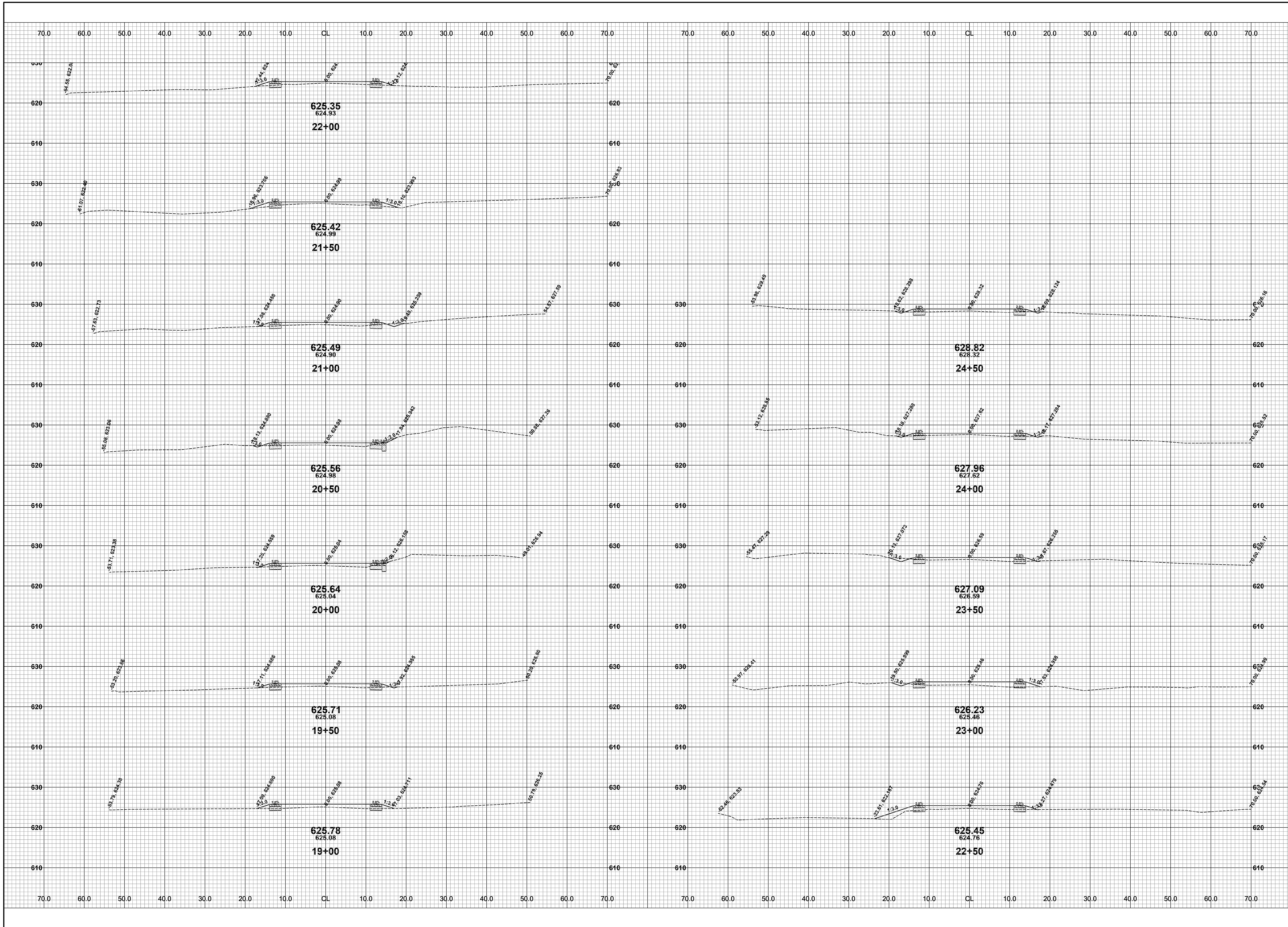
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**LAKESHORE DRIVE REHABILITATION PROJECT**  
GANGES TOWNSHIP - 121ST AVENUE TO M-89  
CROSS SECTIONS - STA. 13+00 TO STA. 18+50

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

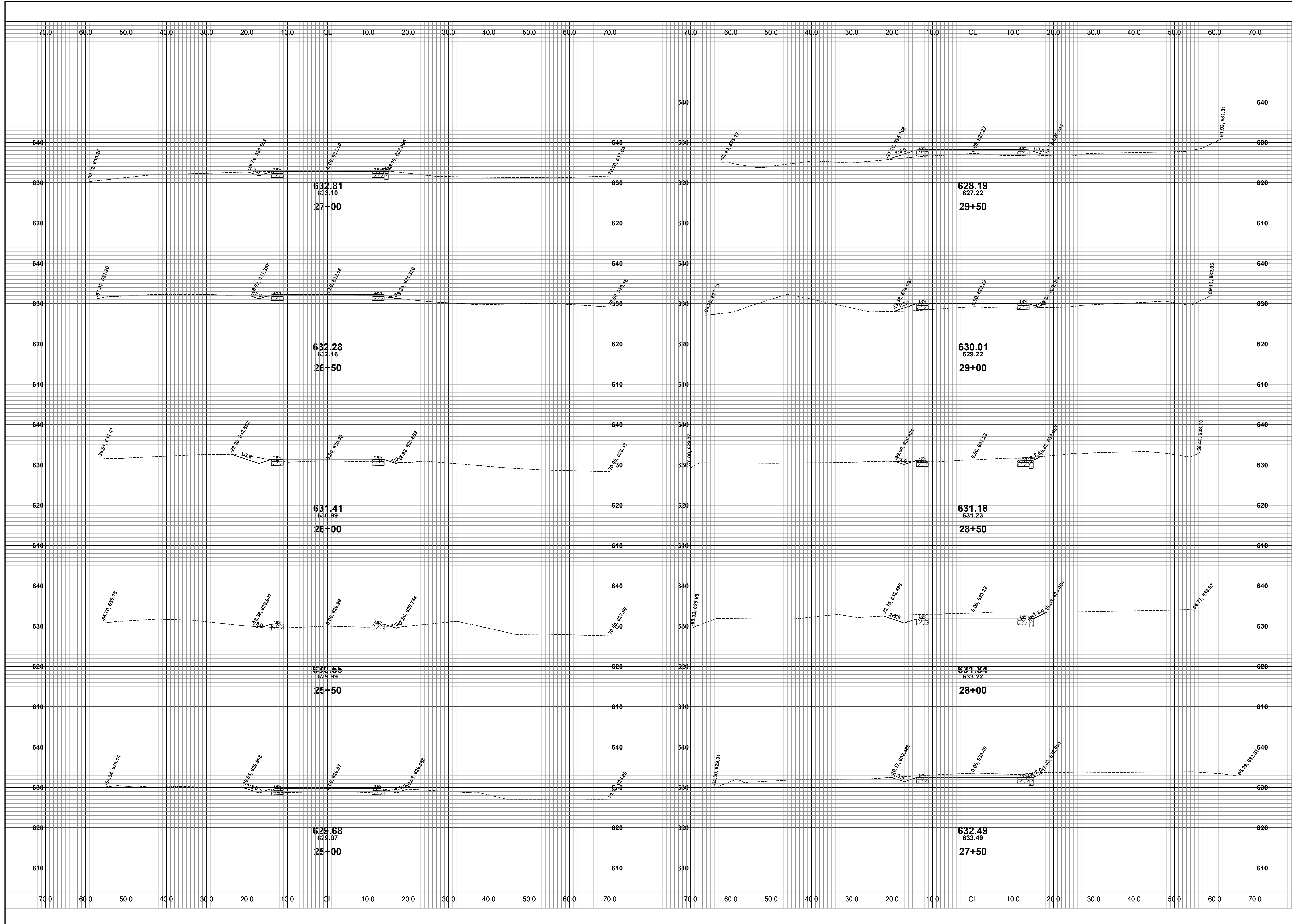




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**LAKESHORE DRIVE REHABILITATION PROJECT**  
GANGES TOWNSHIP - 121ST AVENUE TO M-89  
CROSS SECTIONS - STA. 19+00 TO STA. 24+50

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

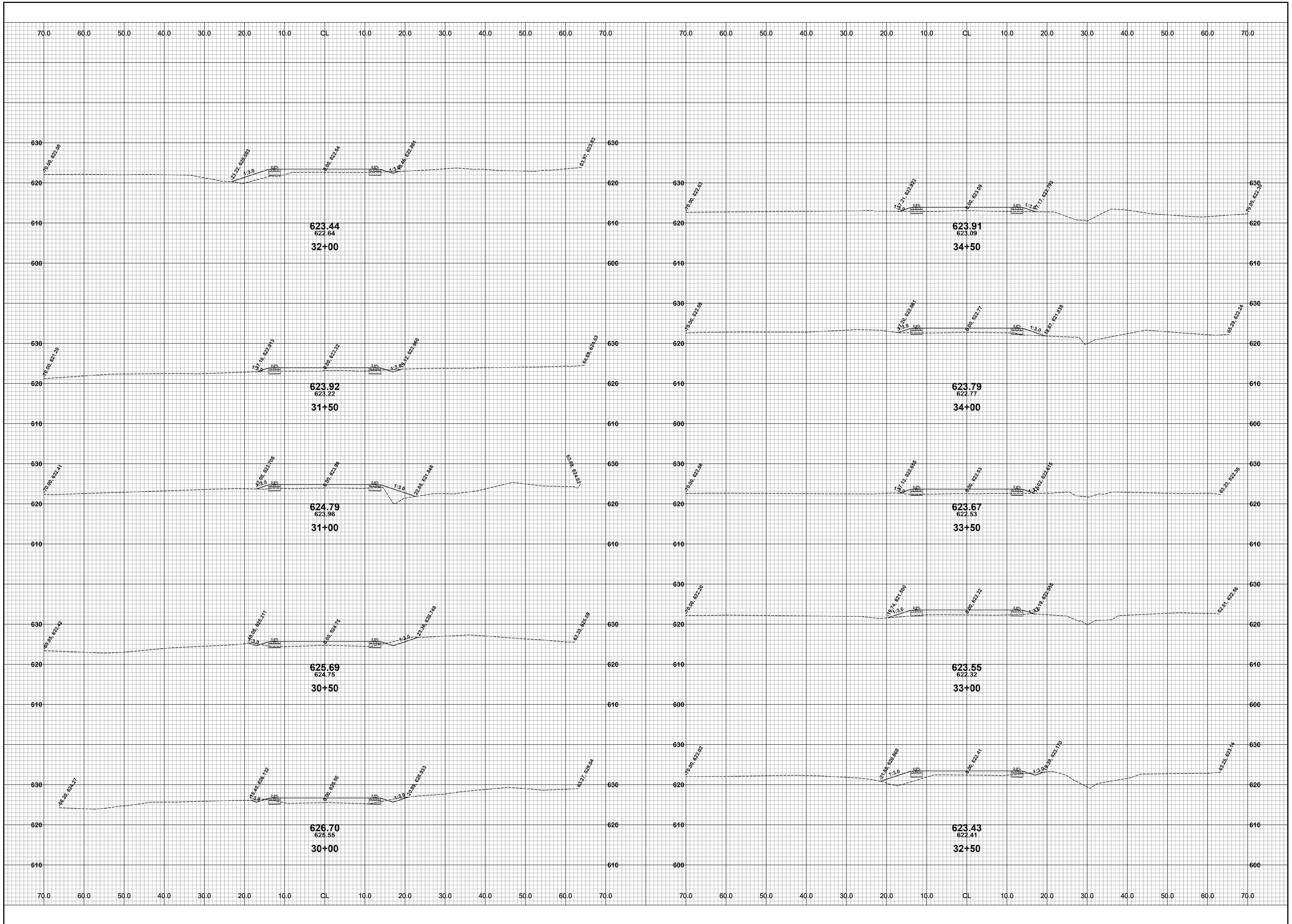


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**LAKESHORE DRIVE REHABILITATION PROJECT**  
GANGES TOWNSHIP - 121ST AVENUE TO M-89  
CROSS SECTIONS - STA. 25+00 TO STA. 29+50

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

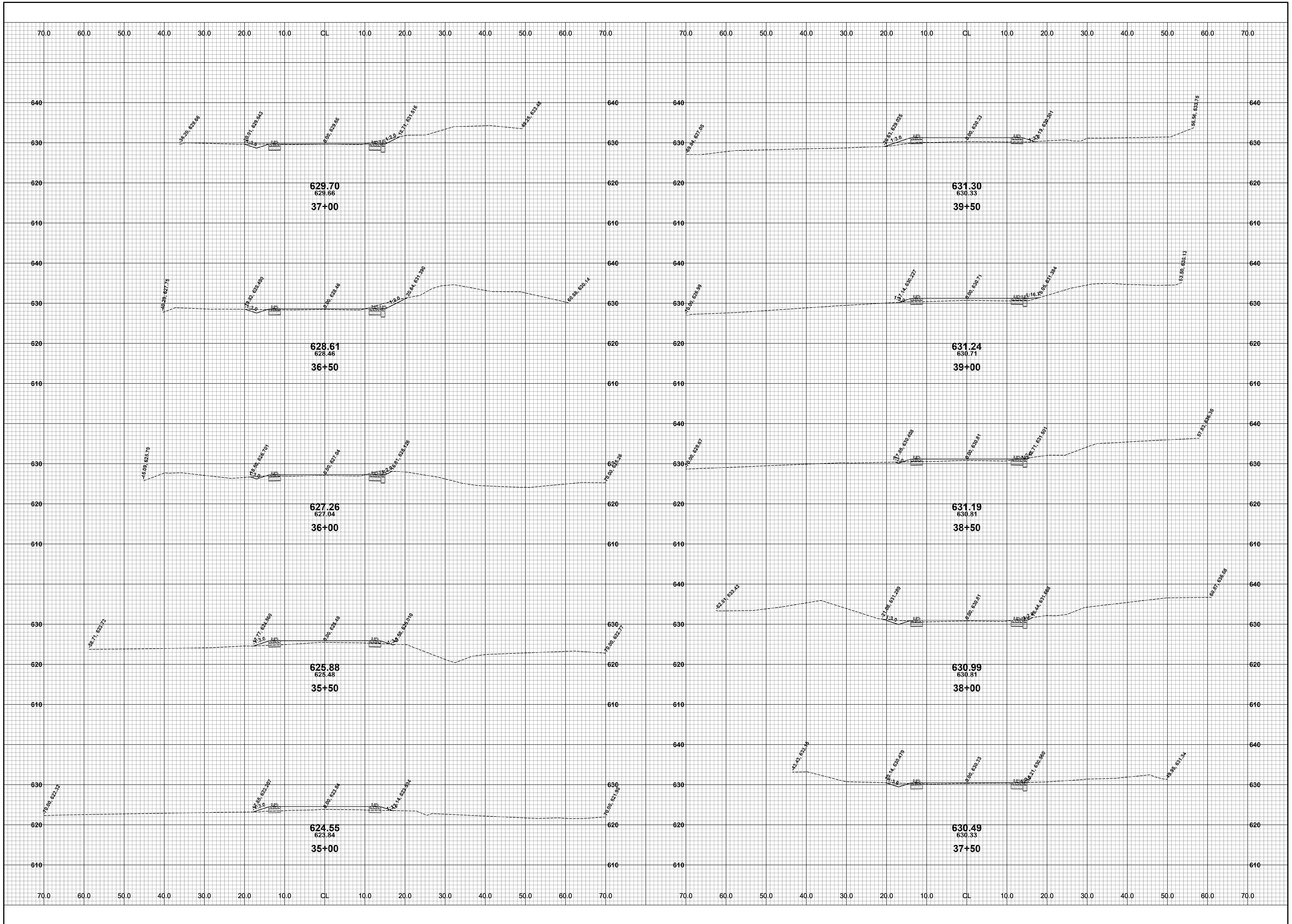


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**LAKESHORE DRIVE REHABILITATION PROJECT**  
GANGES TOWNSHIP - 121ST AVENUE TO M-89  
CROSS SECTIONS - STA. 30+00 TO STA. 34+50

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

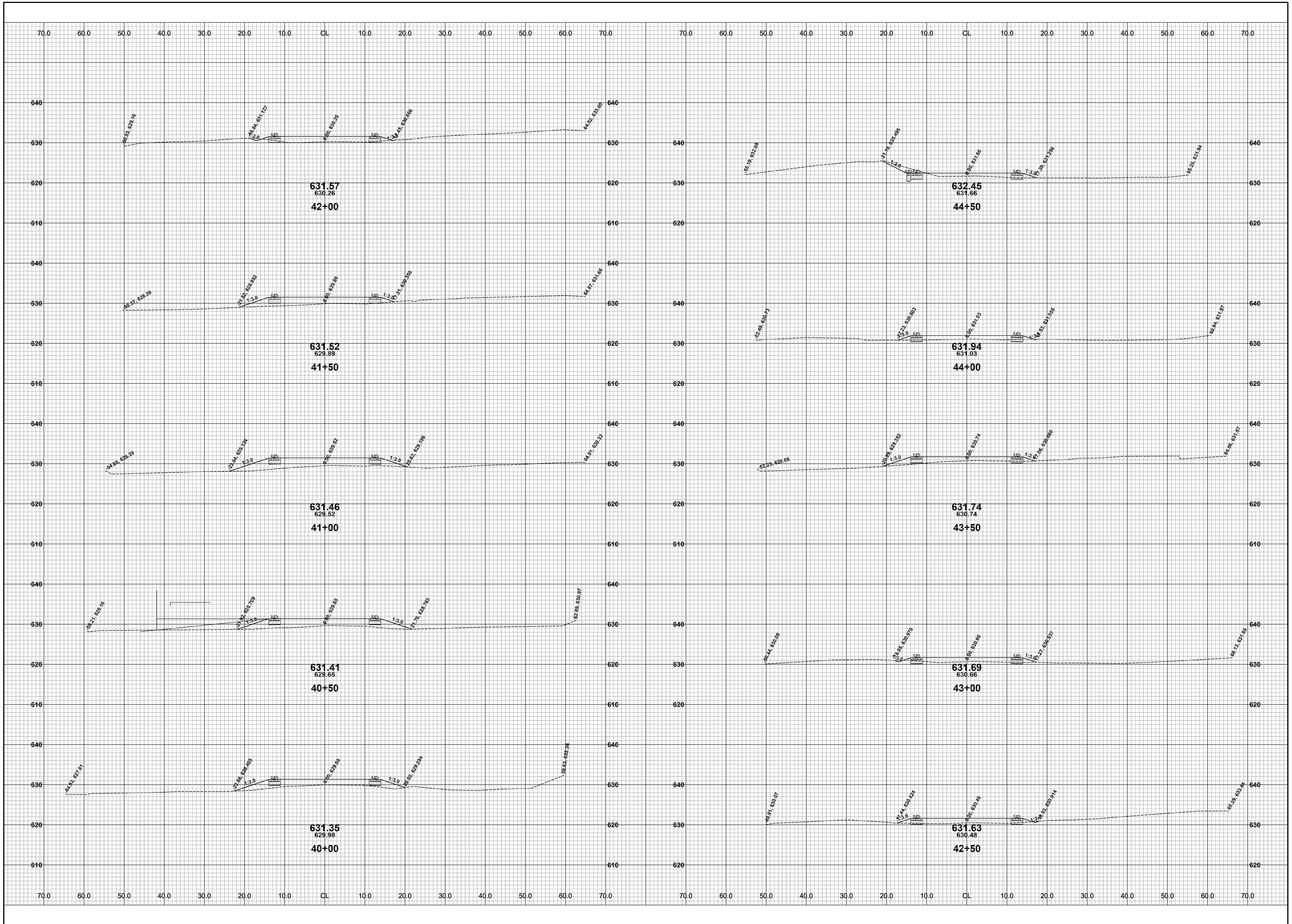




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**LAKESHORE DRIVE REHABILITATION PROJECT**  
GANGES TOWNSHIP - 121ST AVENUE TO M-89  
CROSS SECTIONS - STA. 35+00 TO STA. 39+50

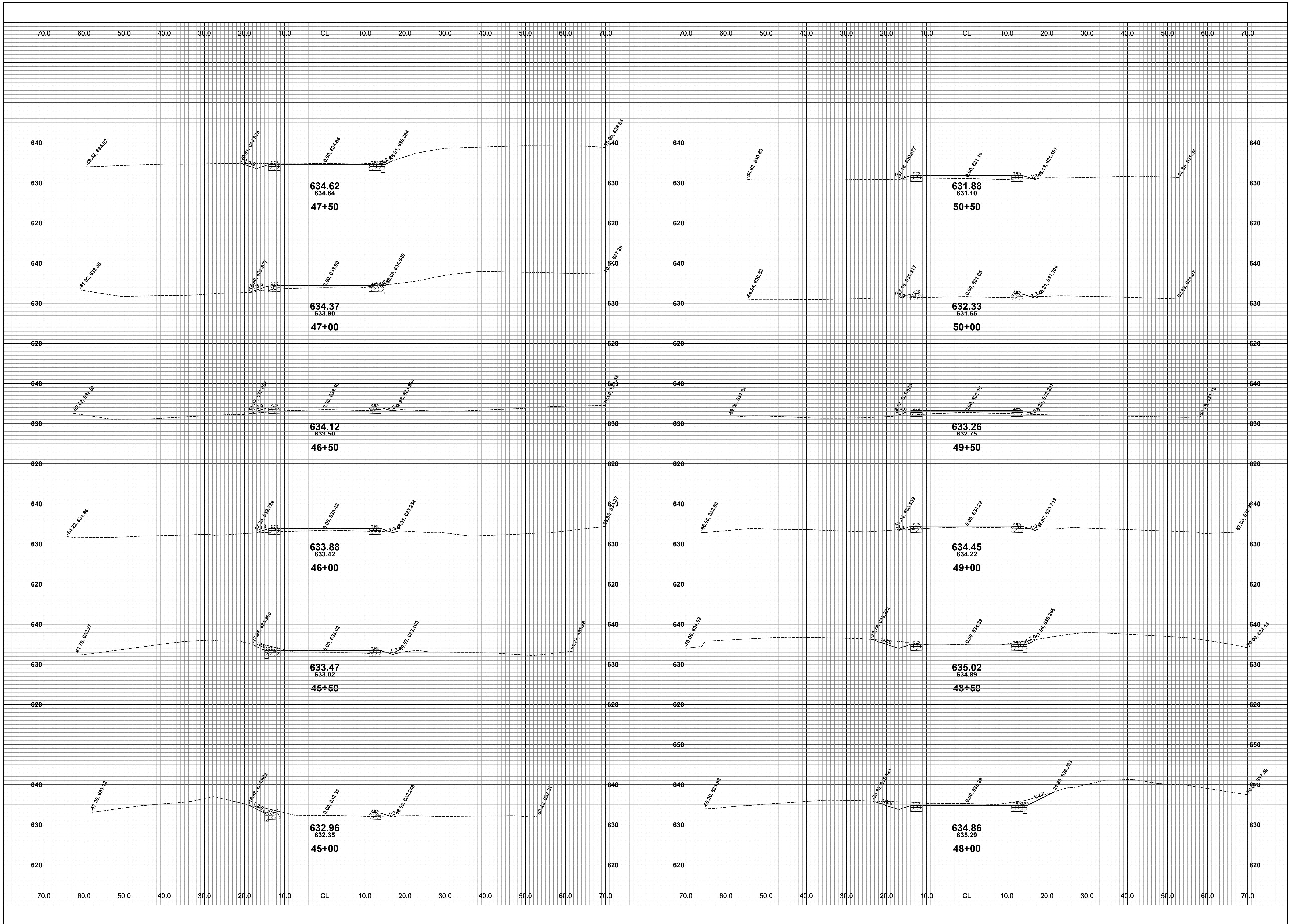
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REVIEWED BY: JSE  
DATE: FEBRUARY, 2021  
SCALE: 1"= 10'



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**LAKESHORE DRIVE REHABILITATION PROJECT**  
GANGES TOWNSHIP - 121ST AVENUE TO M-89  
CROSS SECTIONS - STA. 40+00 TO STA. 44+50

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

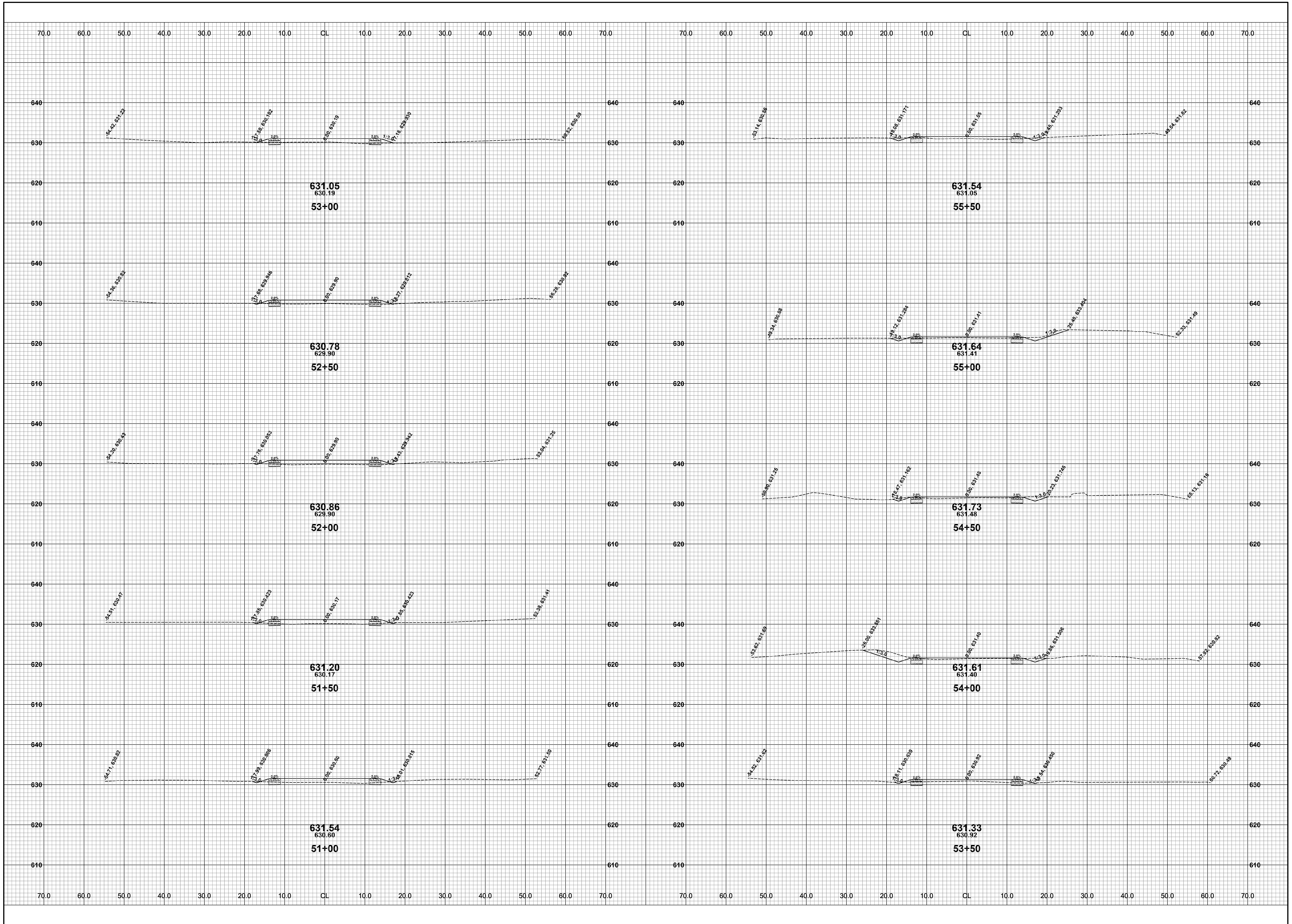


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**LAKESHORE DRIVE REHABILITATION PROJECT**  
GANGES TOWNSHIP - 121ST AVENUE TO M-89  
CROSS SECTIONS - STA. 45+00 TO STA. 50+50

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

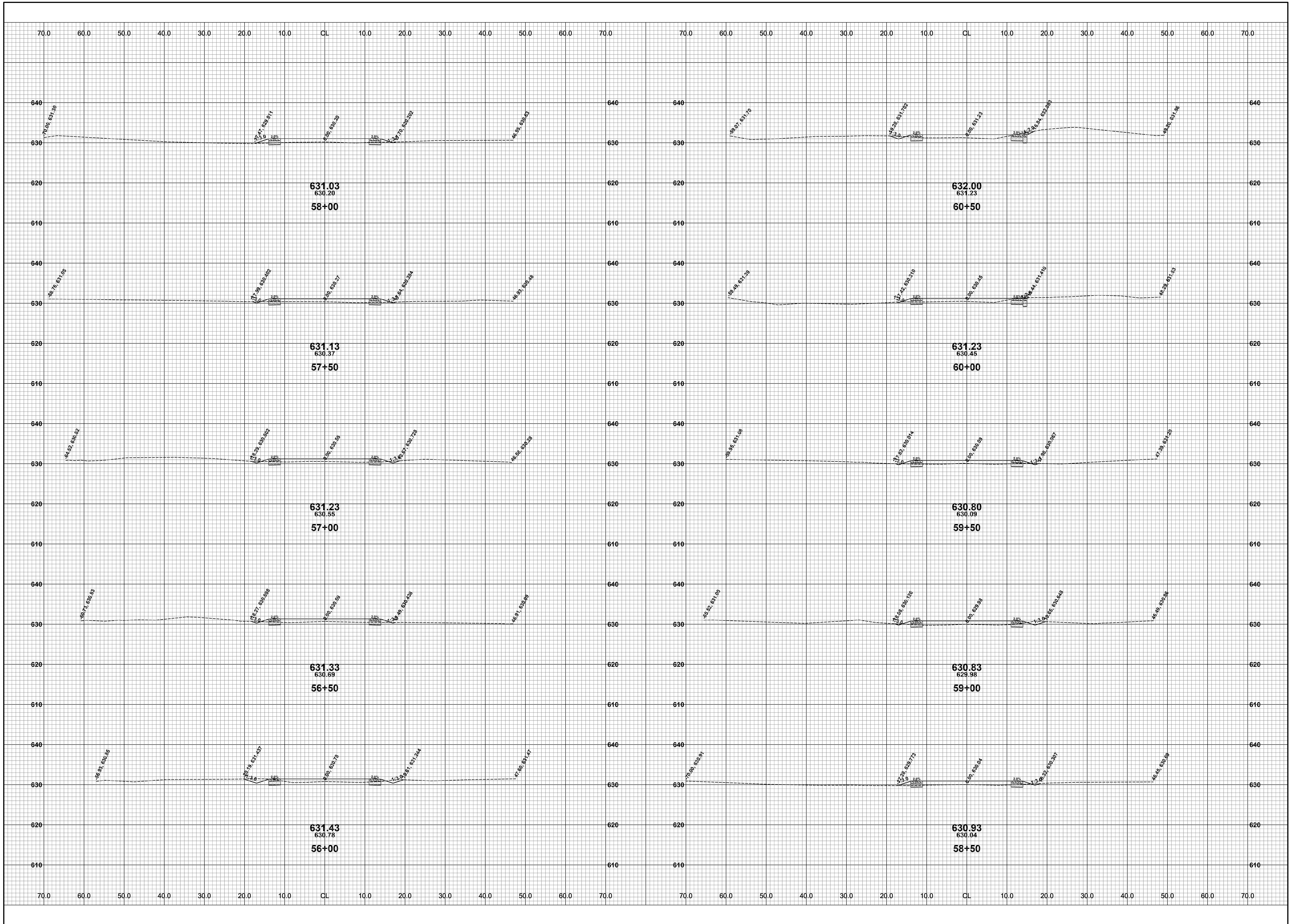




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**LAKESHORE DRIVE REHABILITATION PROJECT**  
GANGES TOWNSHIP - 121ST AVENUE TO M-89  
CROSS SECTIONS - STA. 51+00 TO STA. 55+50

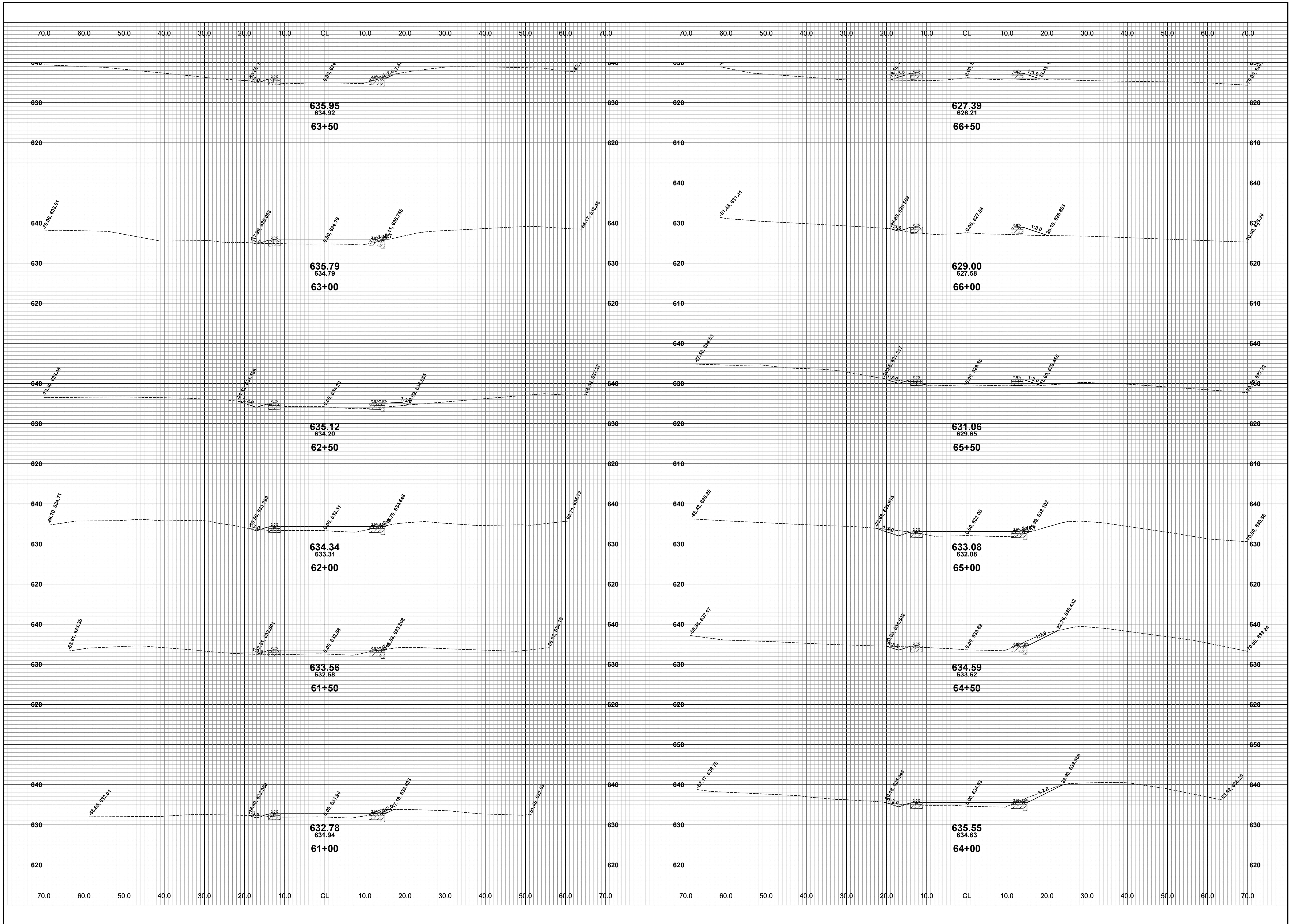
DRAWN BY: RPB  
REVIEWED BY: JSE  
DATE: FEBRUARY, 2021  
SCALE: 1"= 10'



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**LAKESHORE DRIVE REHABILITATION PROJECT**  
GANGES TOWNSHIP - 121ST AVENUE TO M-89  
CROSS SECTIONS - STA. 56+00 TO STA. 60+50

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

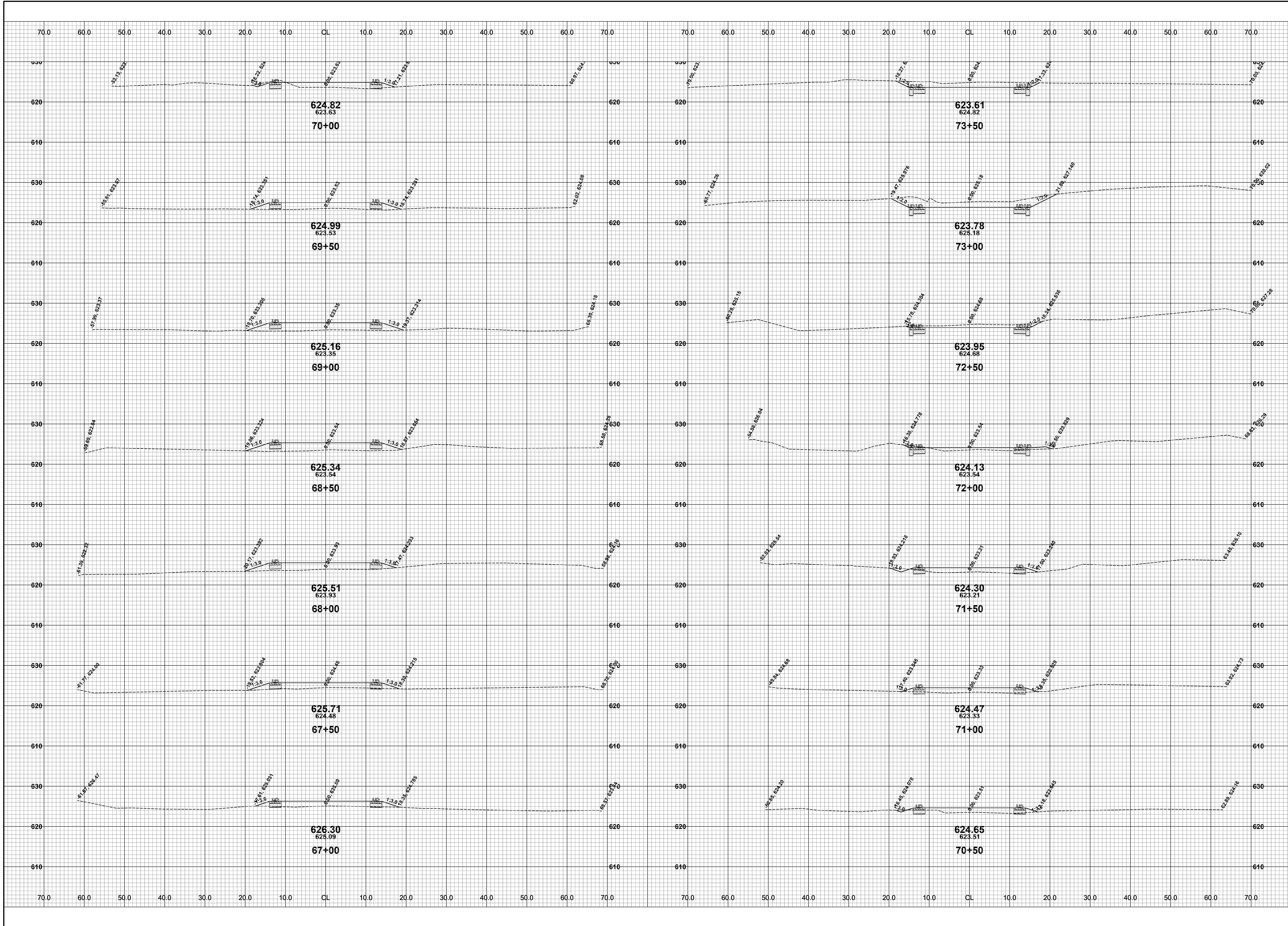


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**LAKESHORE DRIVE REHABILITATION PROJECT**  
GANGES TOWNSHIP - 121ST AVENUE TO M-89  
CROSS SECTIONS - STA. 61+00 TO STA. 66+50

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

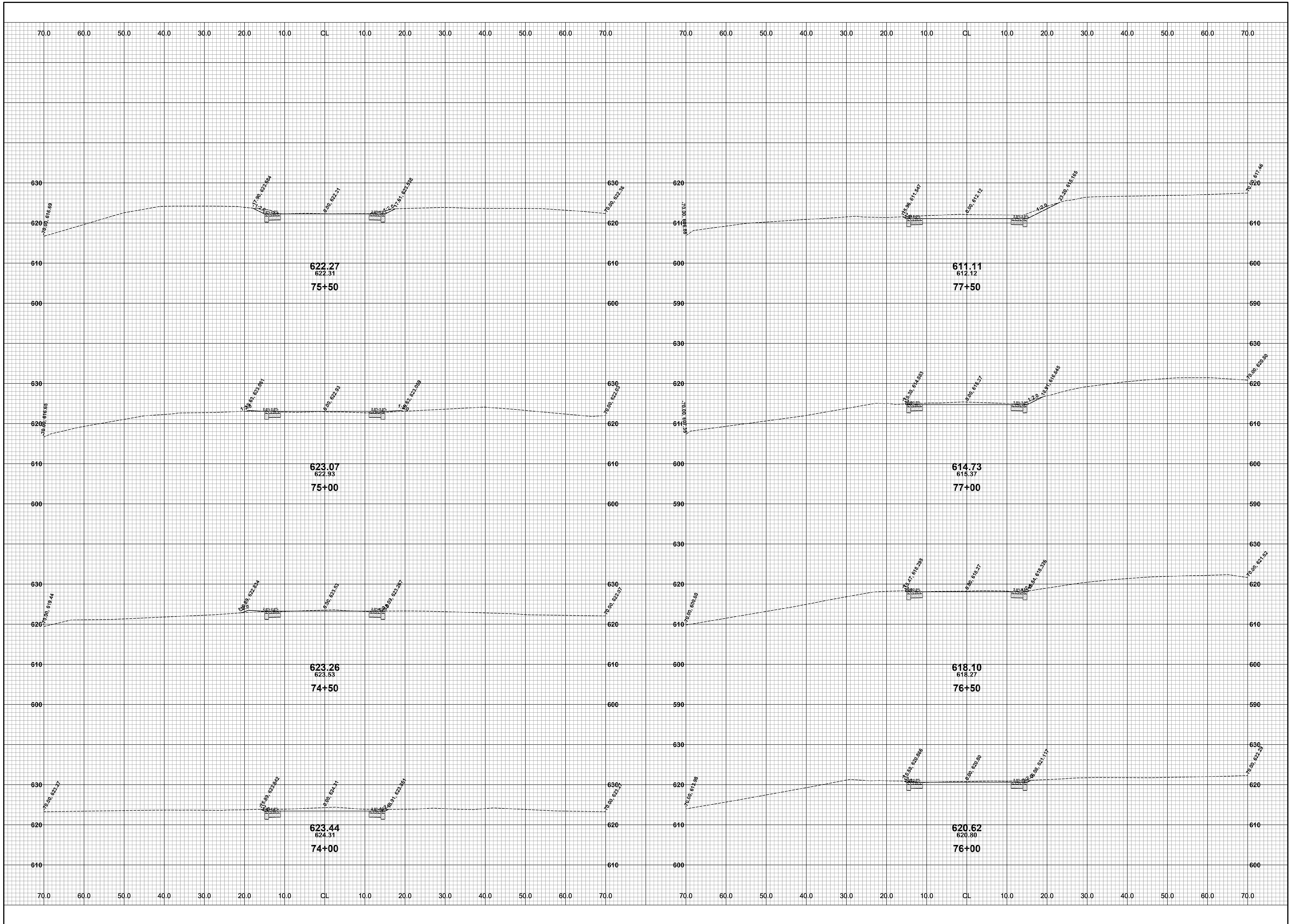




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**LAKESHORE DRIVE REHABILITATION PROJECT**  
GANGES TOWNSHIP - 121ST AVENUE TO M-89  
CROSS SECTIONS - STA. 67+00 TO STA. 73+50

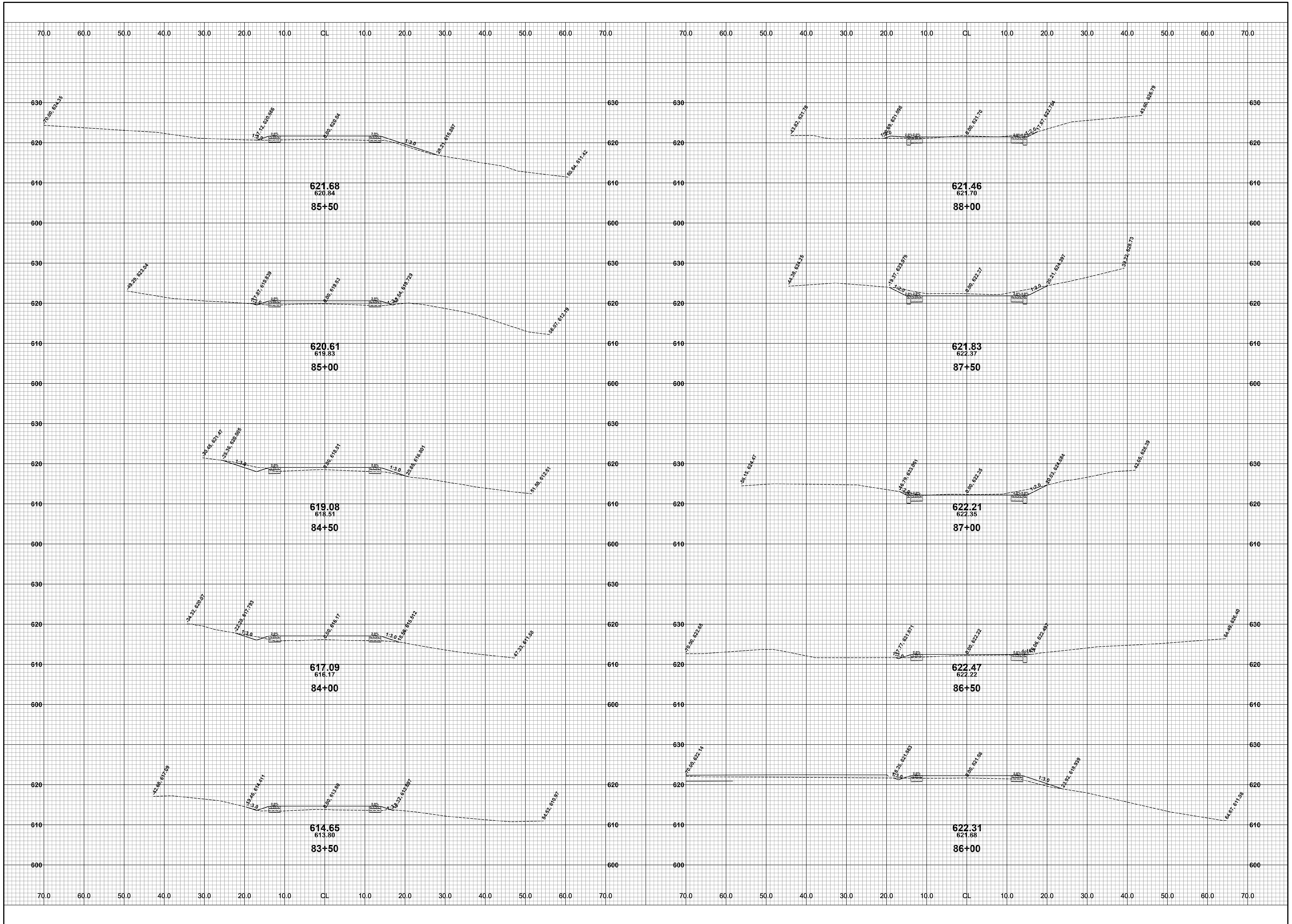
DRAWN BY: RPB  
REVIEWED BY: JSE  
DATE: FEBRUARY, 2021  
SCALE: 1"= 10'



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**LAKESHORE DRIVE REHABILITATION PROJECT**  
GANGES TOWNSHIP - 121ST AVENUE TO M-89  
CROSS SECTIONS - STA. 74+00 TO STA. 77+50

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

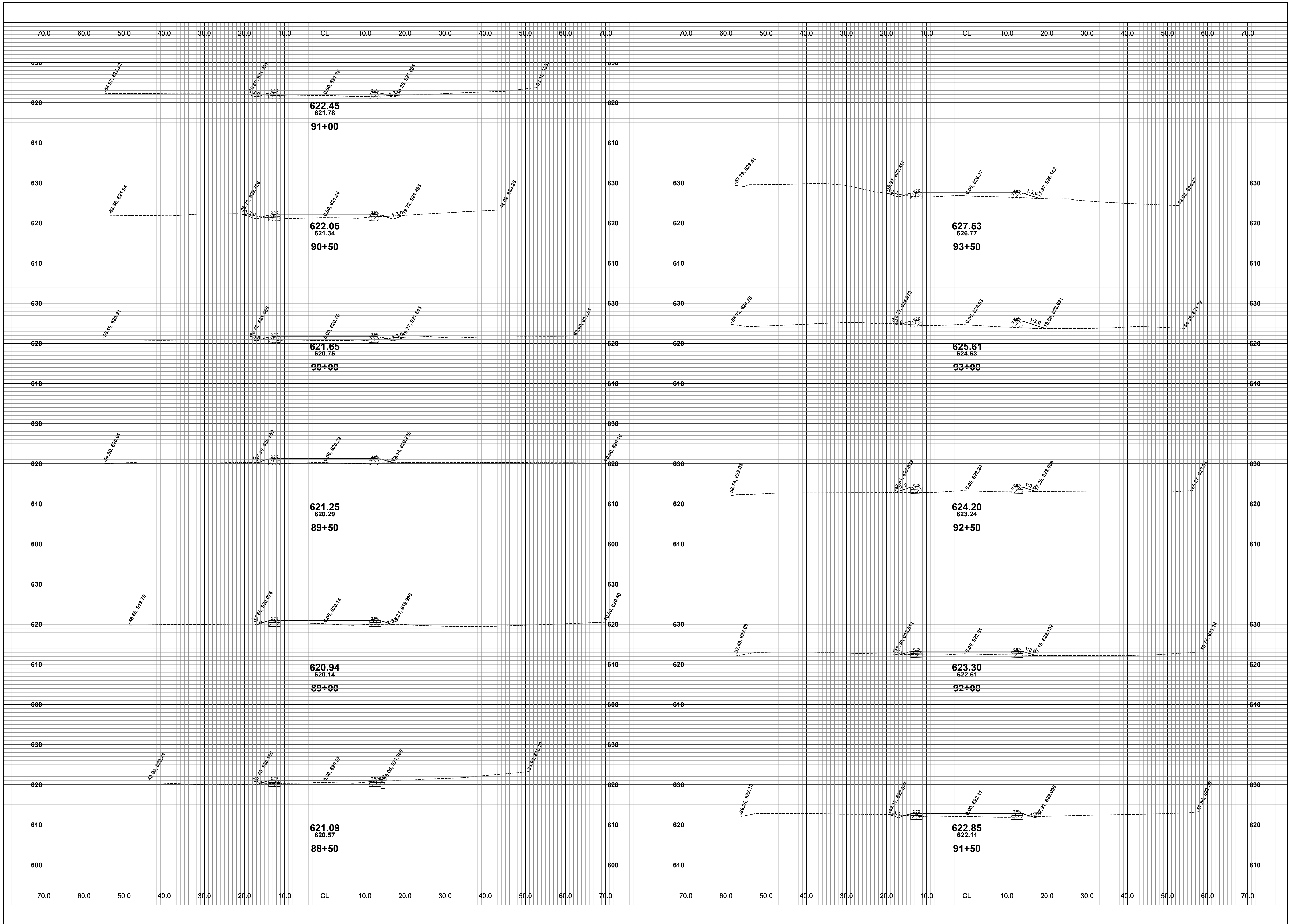


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**LAKESHORE DRIVE REHABILITATION PROJECT**  
GANGES TOWNSHIP - 121ST AVENUE TO M-89  
CROSS SECTIONS - STA. 83+50 TO STA. 88+00

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

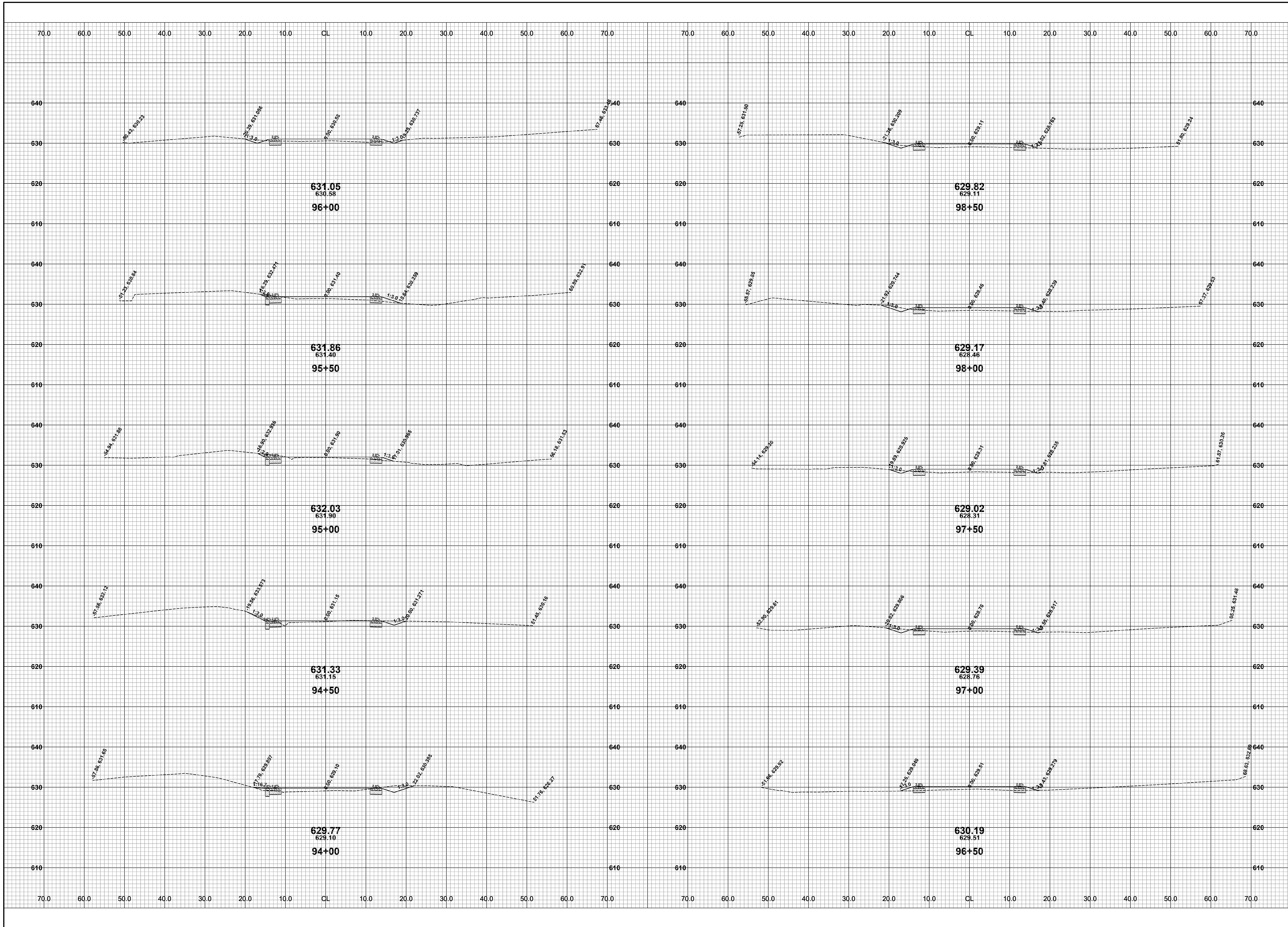




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**LAKESHORE DRIVE REHABILITATION PROJECT**  
GANGES TOWNSHIP - 121ST AVENUE TO M-89  
CROSS SECTIONS - STA. 88+50 TO STA. 93+50

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

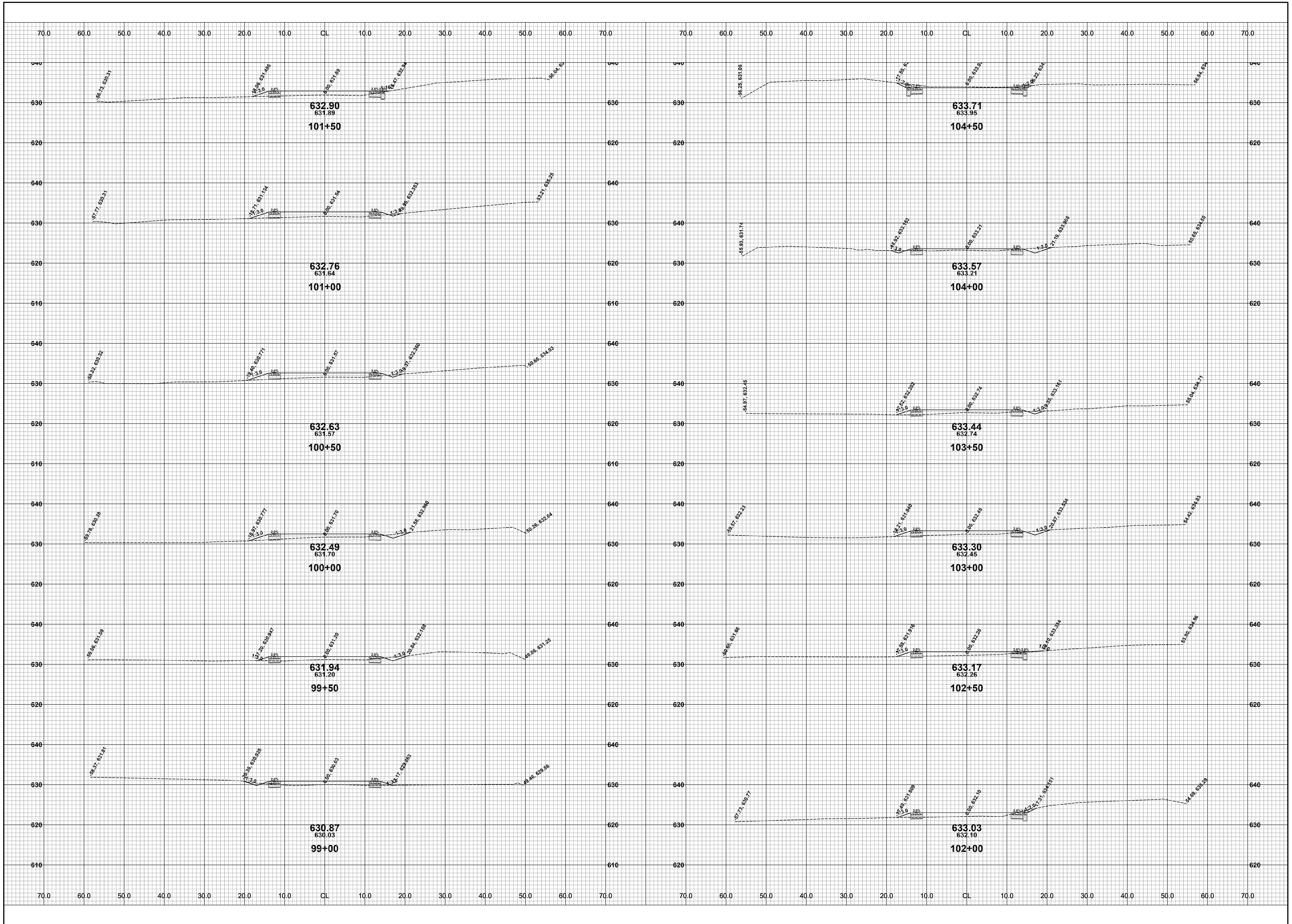


**Board of County Road Commissioners  
Of Allegan County**  
1308 LINCOLN ROAD  
ALLEGAN, MICHIGAN 49010-9762  
TELEPHONE (269) 673-2184 www.alleganroads.org FAX (269) 673-5922

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**LAKESHORE DRIVE REHABILITATION PROJECT**  
GANGES TOWNSHIP - 121ST AVENUE TO M-89  
CROSS SECTIONS - STA. 94+00 TO STA. 98+50

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

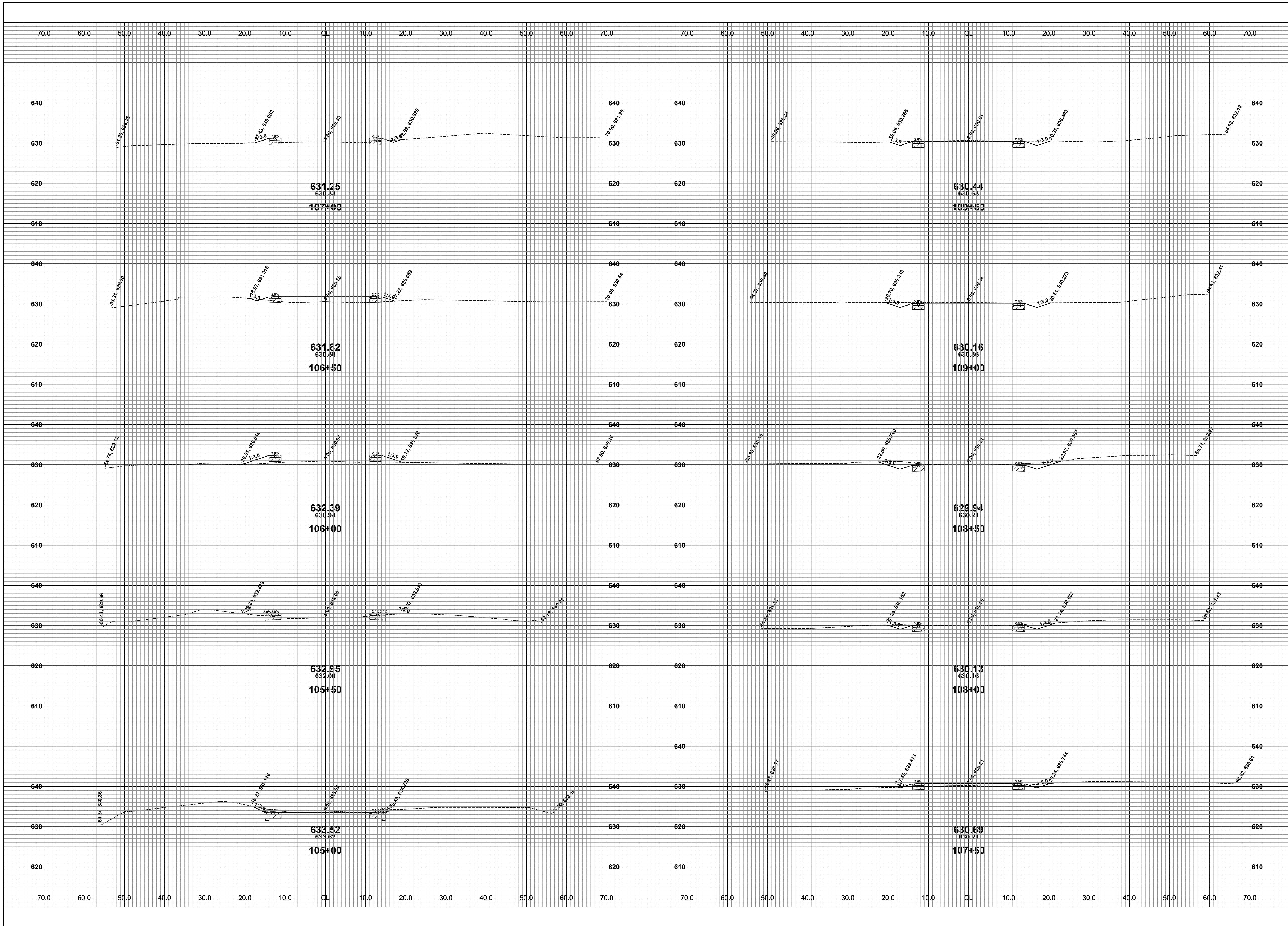


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**LAKESHORE DRIVE REHABILITATION PROJECT**  
GANGES TOWNSHIP - 121ST AVENUE TO M-89  
CROSS SECTIONS - STA. 99+00 TO STA. 104+50

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





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**LAKESHORE DRIVE REHABILITATION PROJECT**  
GANGES TOWNSHIP - 121ST AVENUE TO M-89  
CROSS SECTIONS - STA. 105+00 TO STA. 109+50

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