

ALLEGAN COUNTY ROAD COMMISSION

119TH AVENUE RECONSTRUCTION PROJECT

66TH STREET TO 64TH STREET

GANGES TOWNSHIP

UTILITY CONTACTS

ELECTRIC
CONSUMERS ENERGY
3030 M-40
HAMILTON, MI 49419
317-445-8814
COLE ROCHOWIAK
cole.rochowiak@cmsenergy.com

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

MISS DIG 811

Board of County Road Commissioners
Of Allegan County

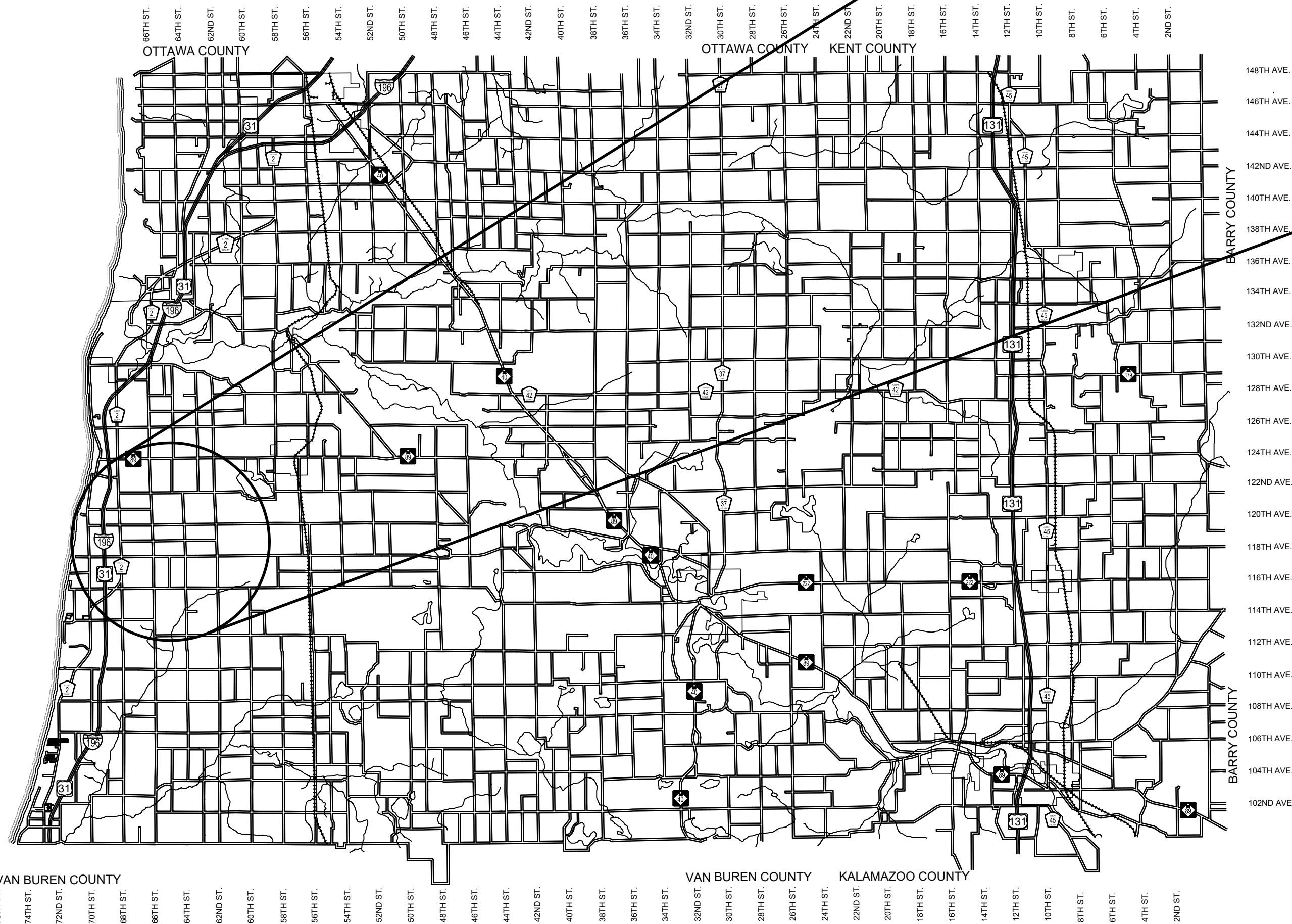
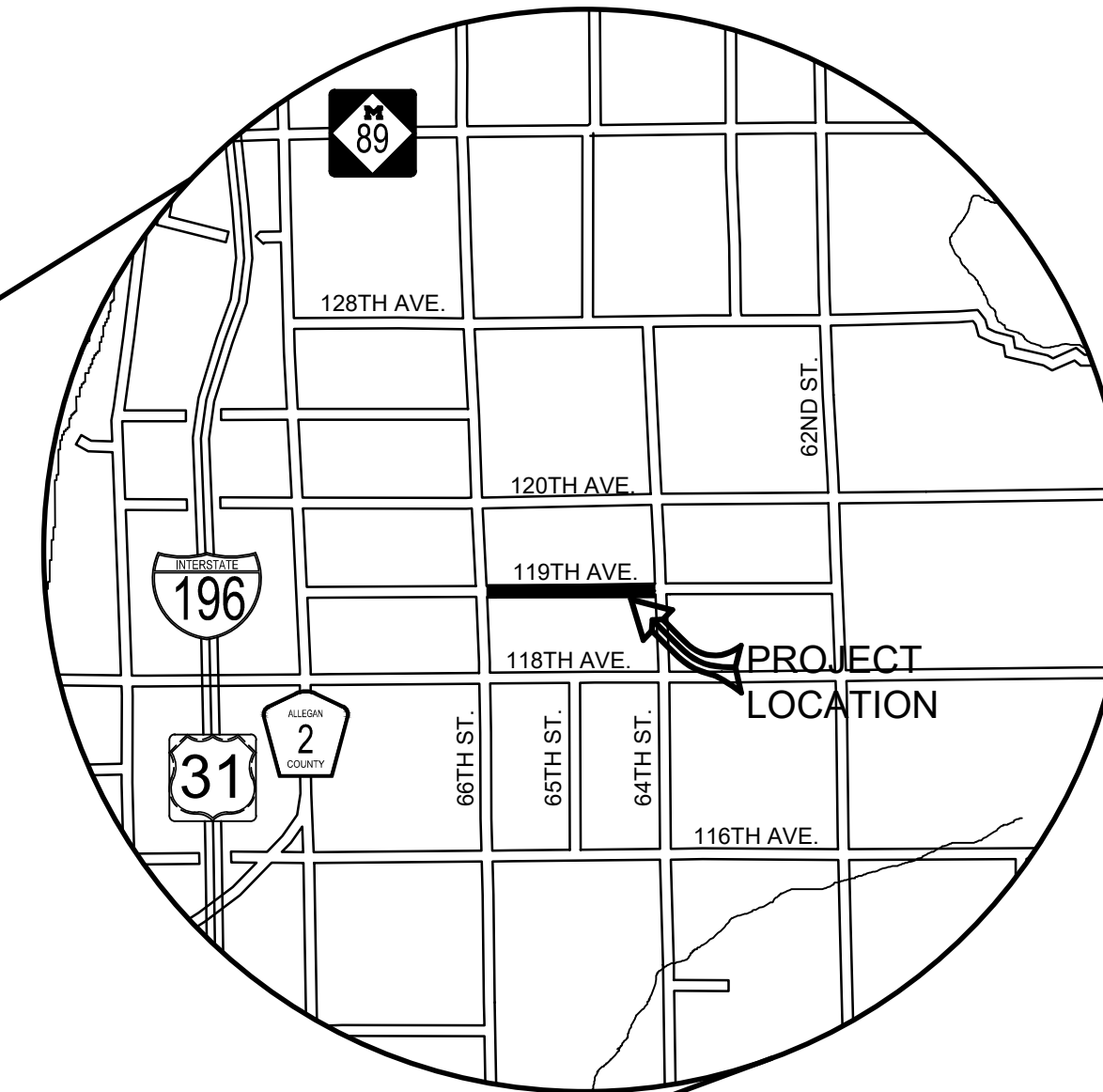
1308 LINCOLN ROAD
ALLEGAN, MICHIGAN 49010-9762
TELEPHONE (269) 673-2184 www.alleganroads.org FAX (269) 673-5922

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.



ALLEGAN COUNTY, MICHIGAN
NOT TO SCALE

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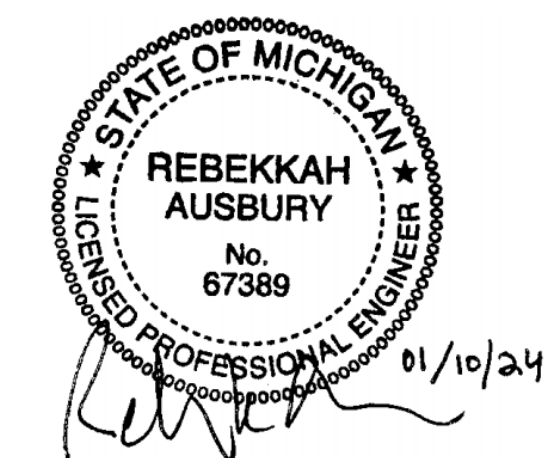
119TH AVENUE RECONSTRUCTION PROJECT
GANGES TOWNSHIP

COVER SHEET

CONTRACT FOR ROAD IMPROVEMENTS

1.00 MILES OF ROADWAY RECONSTRUCTION INCLUDING CLEARING, GRADE ESTABLISHMENT, SAND SUBBASE, AGGREGATE BASE, CULVERT REPLACEMENTS, AND RESTORATION ON 119TH AVENUE FROM 66TH STREET TO 64TH STREET IN GANGES TOWNSHIP, ALLEGAN COUNTY.

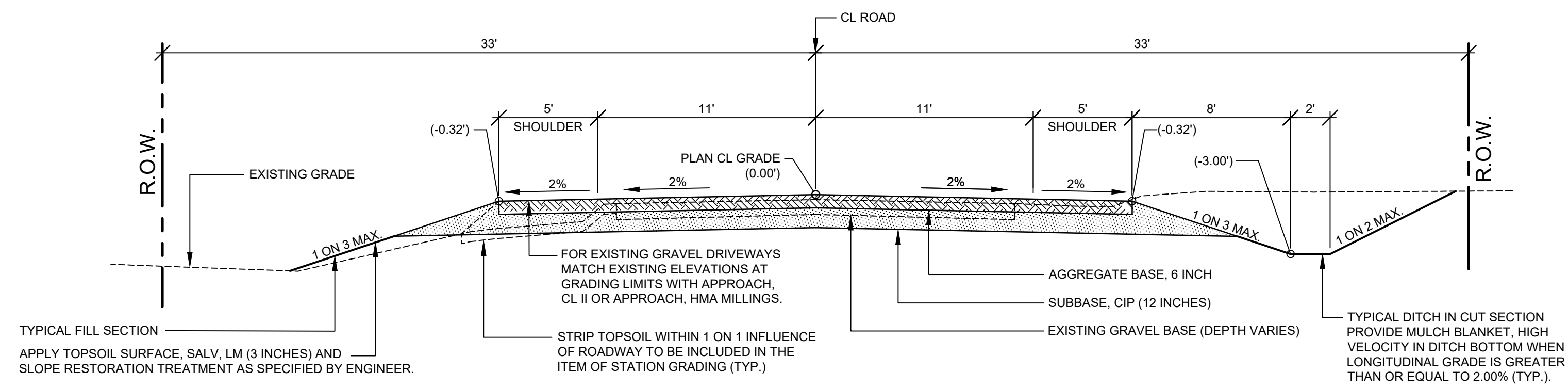
PREPARED UNDER THE SUPERVISION OF:



REBEKKAH K. AUSBURY
REGISTERED PROFESSIONAL ENGINEER
No. 6201067389

DRAWN BY: RKA
REVIEWED BY: RK
DATE: JAN 2024
SCALE: NONE

LH 400149 1



TYPICAL SECTION - 119TH AVENUE

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

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 ALL CULVERT REMOVAL, FENCE REMOVAL, FENCE RELOCATION REGARDLESS OF FENCE TYPE, OBLITERATING/PULVERIZING ROADWAY, ROCK EXCAVATION, CONCRETE REMOVAL, HMA REMOVAL, EARTH EXCAVATION, EMBANKMENT, SAW CUTS REQUIRED, 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 NOVEMBER 27, 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 UTILITIES WILL PERFORM NECESSARY RELOCATIONS.

MISCELLANEOUS QUANTITIES

DESCRIPTION	QUANTITY	UNIT
SUBGRADE UNDERCUTTING, TYPE II	1400	CYD
AGGREGATE, BA	50	TON
GEOTEXTILE, STABILIZATION	800	SYD
RIPRAP, PLAIN	18	SYD
EROSION CONTROL, SILT FENCE	1200	FT
EROSION CONTROL, CHECK DAM	250	FT
APPROACH, CL II	50	TON
CULV, CL F, 12 INCH	40	FT
CULV, CL F, 18 INCH	40	FT

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GANGES TOWNSHIP - 66TH STREET TO 64TH STREET

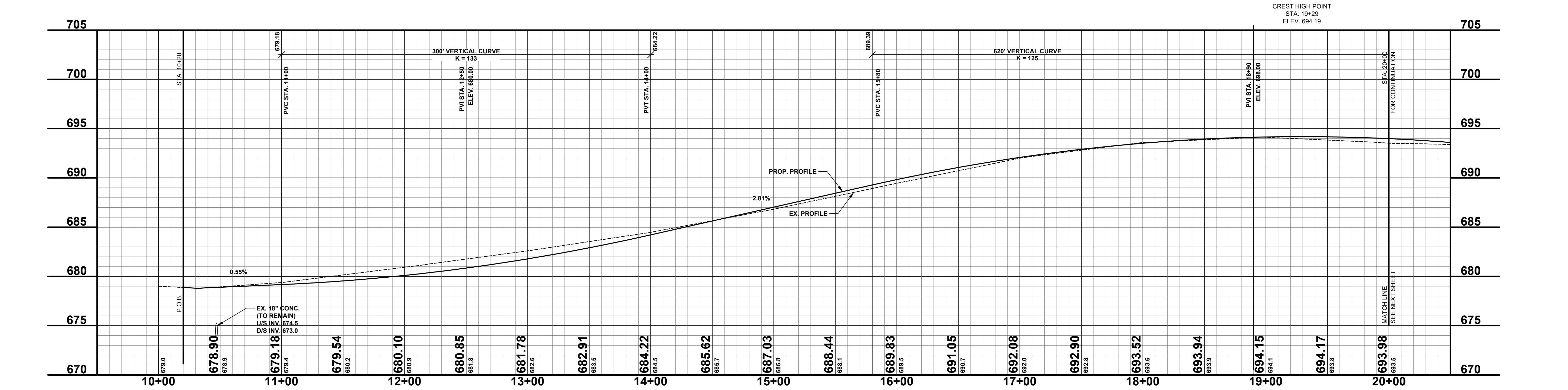
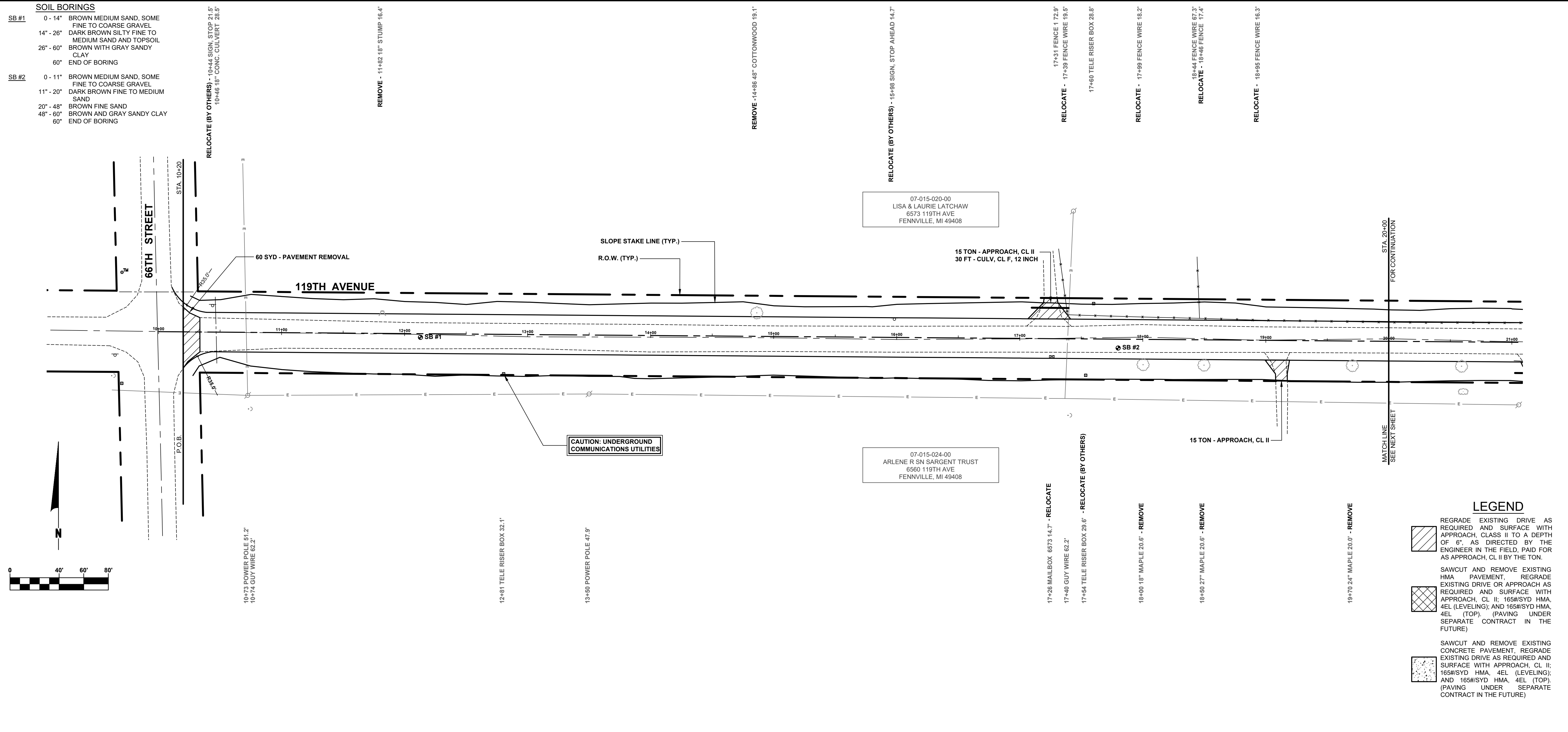
TYPICAL SECTIONS, DETAILS, & NOTES

DRAWN BY: RKA
REVIEWED BY: RK
DATE: JAN 2024
SCALE: AS NOTED

LH 400149 2

SOIL BORINGS

SB #1	0 - 14"	BROWN MEDIUM SAND, SOME FINE TO COARSE GRAVEL
	14" - 26"	DARK BROWN SILTY FINE TO MEDIUM SAND AND TOPSOIL
	26" - 60"	BROWN WITH GRAY SANDY CLAY
	60"	END OF BORING
SB #2	0 - 11"	BROWN MEDIUM SAND, SOME FINE TO COARSE GRAVEL
	11" - 20"	DARK BROWN FINE TO MEDIUM SAND
	20" - 48"	BROWN FINE SAND
	48" - 60"	BROWN AND GRAY SANDY 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, 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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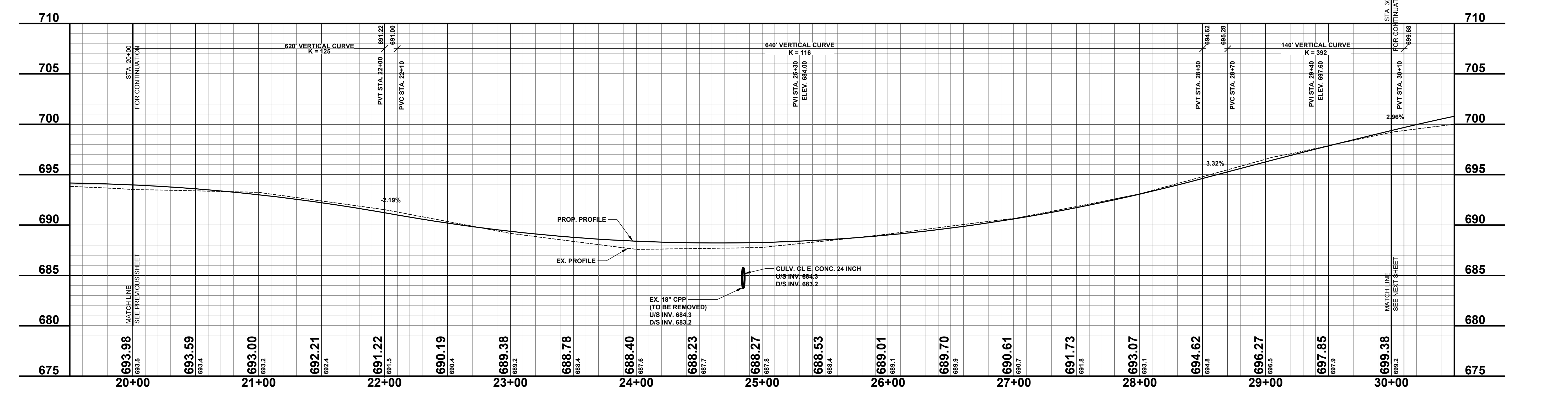
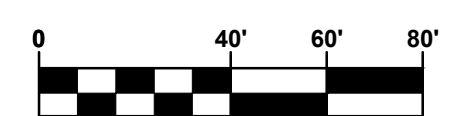
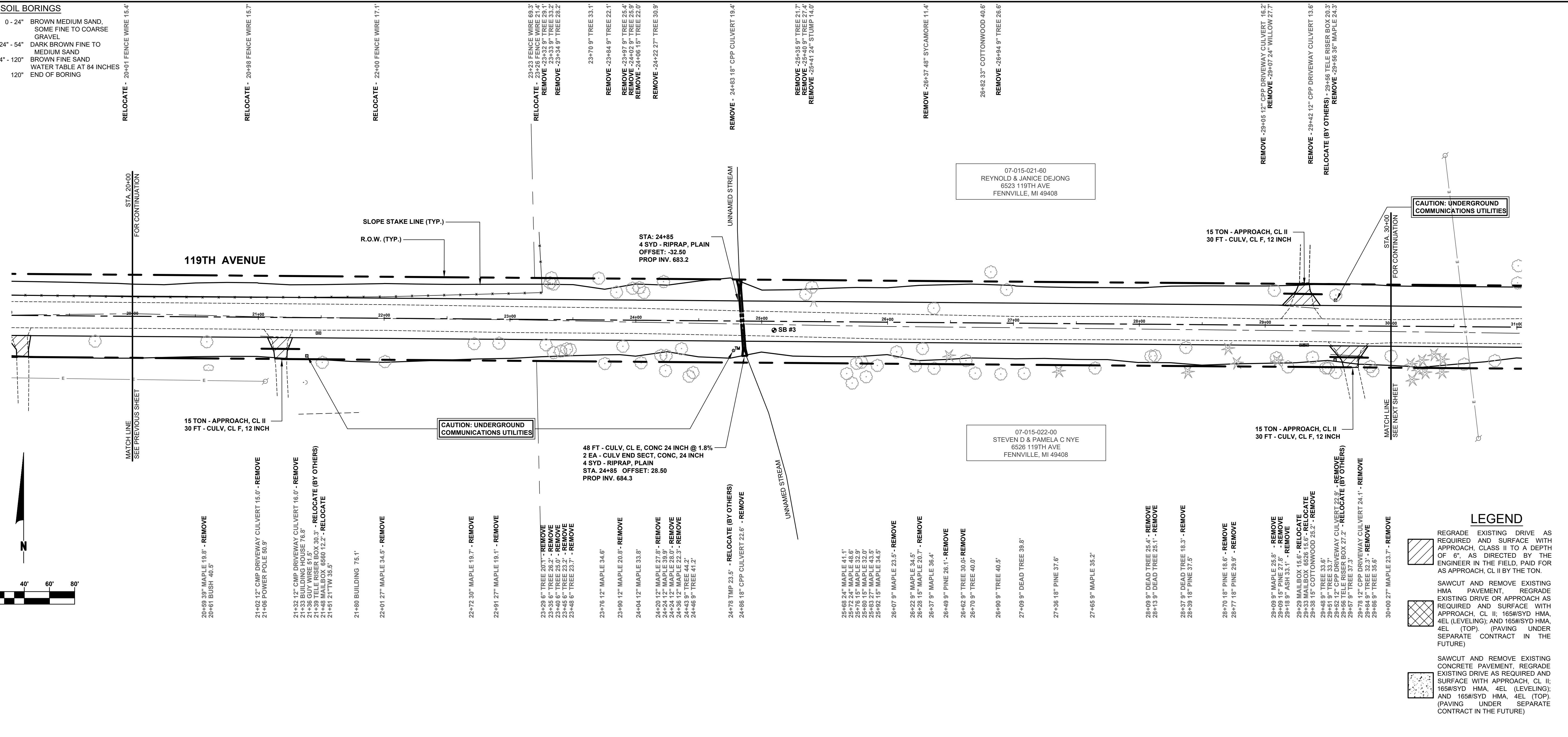
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119TH AVENUE RECONSTRUCTION PROJECT
GANGES TOWNSHIP - 66TH STREET TO 64TH STREET
PLAN & PROFILE - STA. P.O.B. TO STA. 20+00

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SCALE: AS NOTED

SOIL BORINGS

SB #3	0 - 24"	BROWN MEDIUM SAND, SOME FINE TO COARSE GRAVEL
	24" - 54"	DARK BROWN FINE TO MEDIUM SAND
	54" - 120"	BROWN FINE SAND WATER TABLE AT 84 INCHES
	120"	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, 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)

RELOCATE - 20+00 FENCE WIRE 15.4'

RELOCATE - 20+98 FENCE WIRE 15.7'

RELOCATE - 22+00 FENCE WIRE 17.1'

RELOCATE - 23+23 FENCE WIRE 69.2'
REMOVE - 23+32 9" TREE 21.4'
REMOVE - 23+33 9" TREE 23.2'
REMOVE - 23+34 9" TREE 26.2'

REMOVE - 23+70 9" TREE 33.1'
REMOVE - 23+84 9" TREE 22.1'
REMOVE - 23+97 9" TREE 25.4'
REMOVE - 24+02 9" TREE 25.9'
REMOVE - 24+06 15" TREE 22.0'
REMOVE - 24+22 27" TREE 30.9'

REMOVE - 24+85 18" CPP CULVERT 19.4'

REMOVE - 25+36 15" TREE 21.7'
REMOVE - 25+40 9" TREE 27.4'
REMOVE - 25+41 24" STUMP 14.0'

REMOVE - 26+37 48" SYCAMORE 11.4'

REMOVE - 26+82 33" COTTONWOOD 40.6'
REMOVE - 26+94 9" TREE 26.6'

REMOVE - 29+05 12" CPP DRIVEWAY CULVERT 16.2'
REMOVE - 29+07 24" WILLOW 27.7'

RELOCATE (BY OTHERS) - 29+42 12" CPP DRIVEWAY CULVERT 13.6'

RELOCATE (BY OTHERS) - 29+56 TELE RISER BOX 20.3'
REMOVE - 29+56 36" MAPLE 24.3'

07-015-021-60
REYNOLD & JANICE DEJONG
6523 119TH AVE
FENNVILLE, MI 49408

07-015-022-00
STEVEN D & PAMELA C NYE
6526 119TH AVE
FENNVILLE, MI 49408

48 FT - CULV. CL E, CONC 24 INCH @ 1.8%
2 EA - CULV END SECT, CONC, 24 INCH
4 SYD - RIPRAP, PLAIN
STA. 24+85 OFFSET: 28.50
PROP INV. 684.3

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

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

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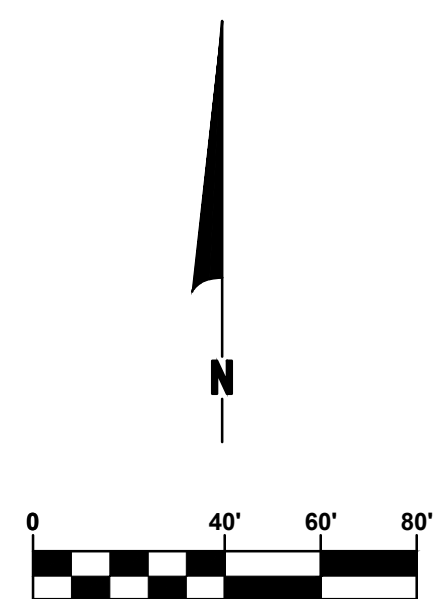
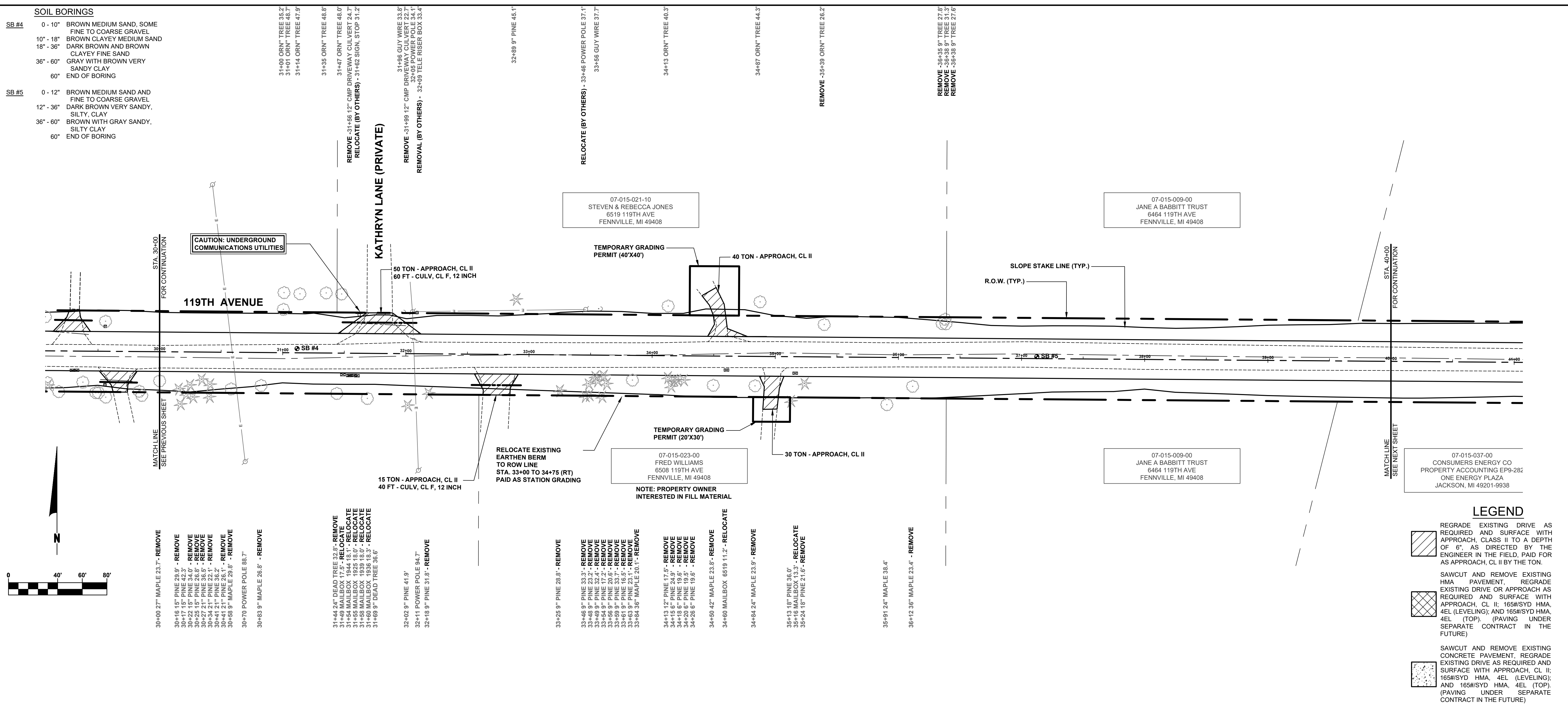
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GANGES TOWNSHIP - 66TH STREET TO 64TH STREET
PLAN & PROFILE - STA. 20+00 TO STA. 30+00

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DATE: JAN 2024
SCALE: AS NOTED

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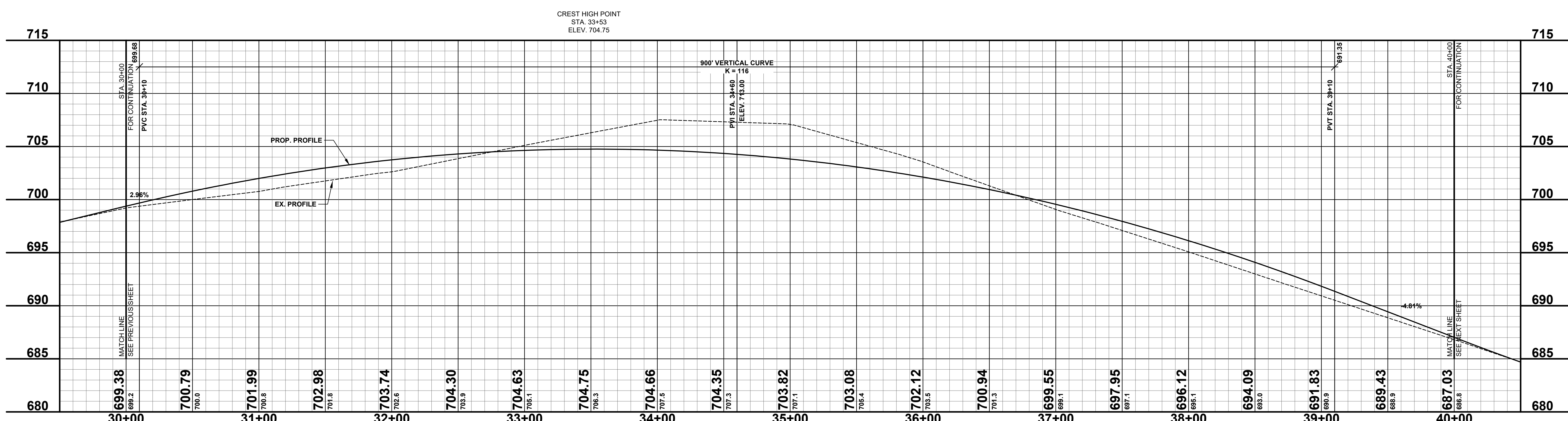
SOIL BORINGS

SB #4	0 - 10"	BROWN MEDIUM SAND, SOME FINE TO COARSE GRAVEL
	10" - 18"	BROWN CLAYEY MEDIUM SAND
	18" - 36"	DARK BROWN AND BROWN CLAYEY FINE SAND
	36" - 60"	GRAY WITH BROWN VERY SANDY CLAY
	60"	END OF BORING
SB #5	0 - 12"	BROWN MEDIUM SAND AND FINE TO COARSE GRAVEL
	12" - 36"	DARK BROWN VERY SANDY, SILTY, CLAY
	36" - 60"	BROWN WITH GRAY SANDY, SILTY 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, 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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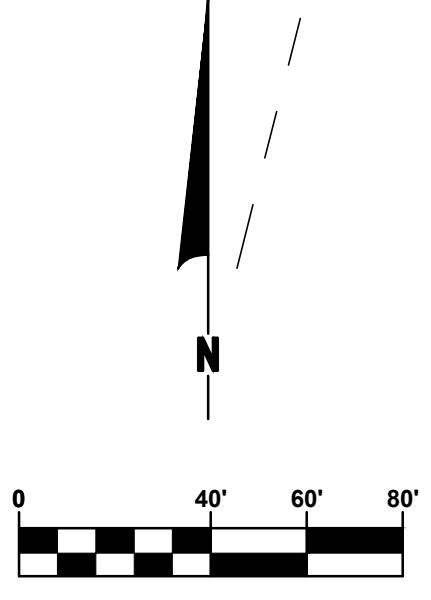
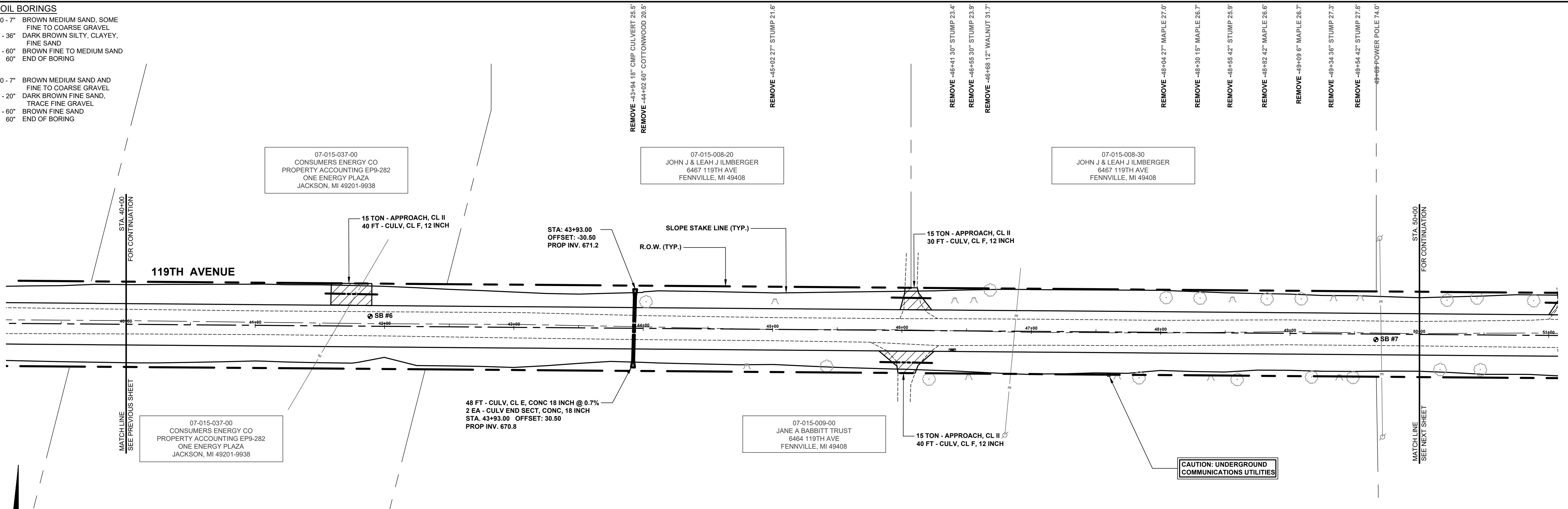
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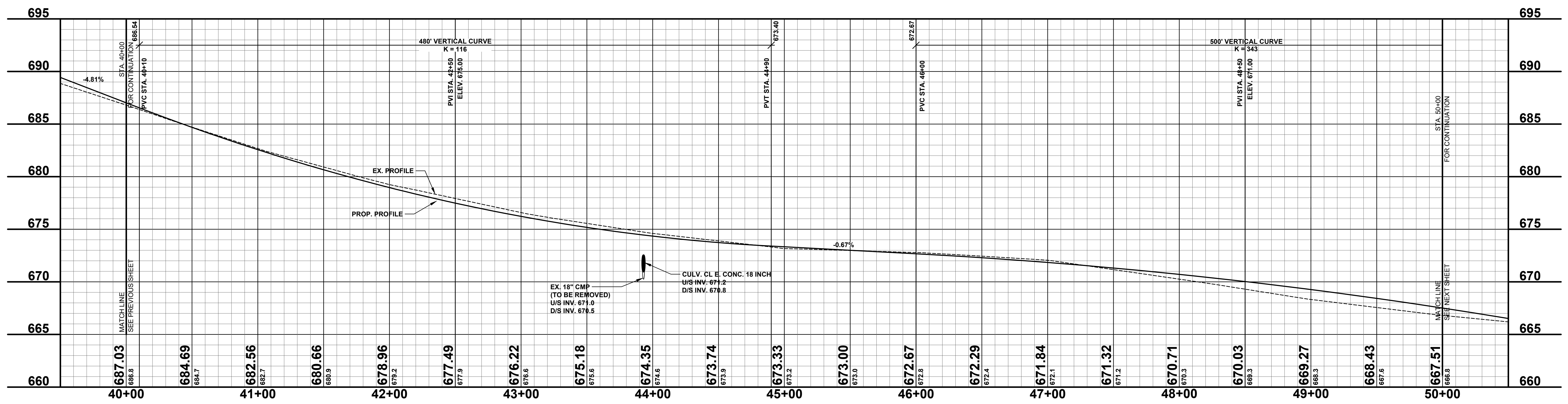
SOIL BORINGS
SB #6
 0 - 7" BROWN MEDIUM SAND, SOME FINE TO COARSE GRAVEL
 7" - 36" DARK BROWN SILTY, CLAYEY, FINE SAND
 36" - 60" BROWN FINE TO MEDIUM SAND
 60" END OF BORING

SB #7
 0 - 7" BROWN MEDIUM SAND AND FINE TO COARSE GRAVEL
 7" - 20" DARK BROWN FINE SAND, TRACE FINE GRAVEL
 20" - 60" BROWN FINE SAND
 60" END OF BORING



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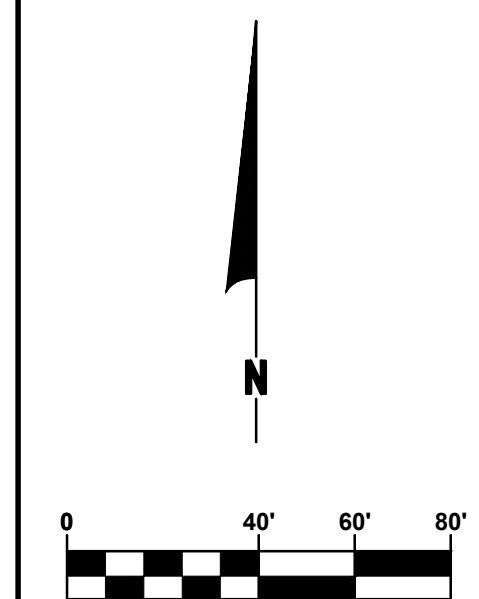
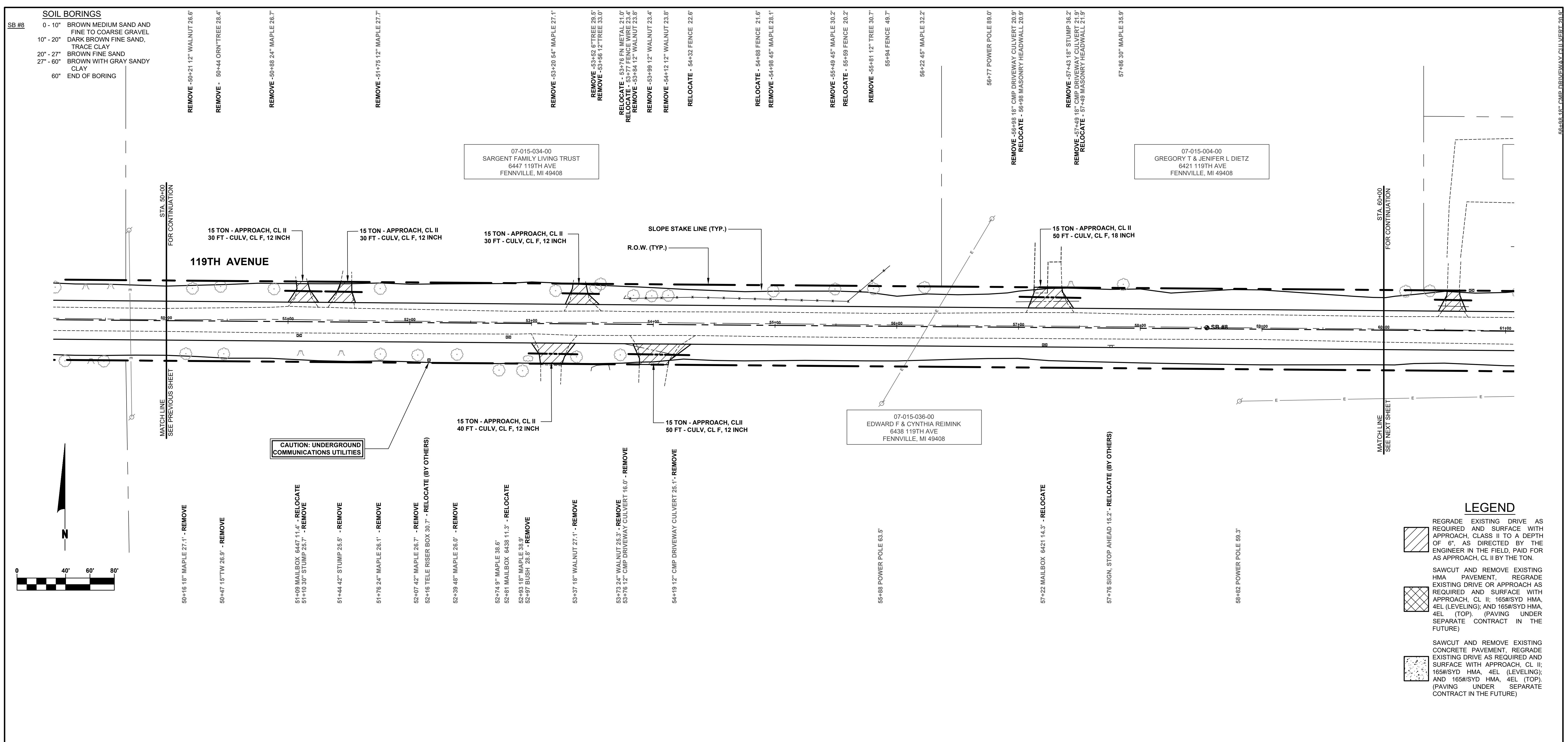
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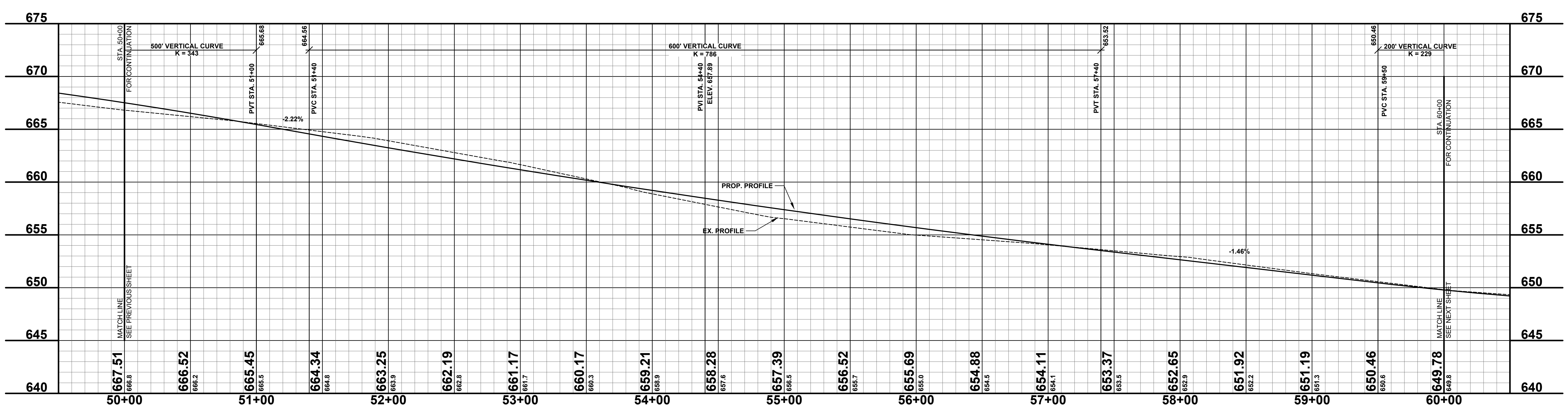
SOIL BORINGS

SB #8	0 - 10" BROWN MEDIUM SAND AND FINE TO COARSE GRAVEL
	10" - 20" DARK BROWN FINE SAND, TRACE CLAY
	20" - 27" BROWN FINE SAND
	27" - 60" BROWN WITH GRAY SANDY CLAY
	60" END OF BORING



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REVISIONS

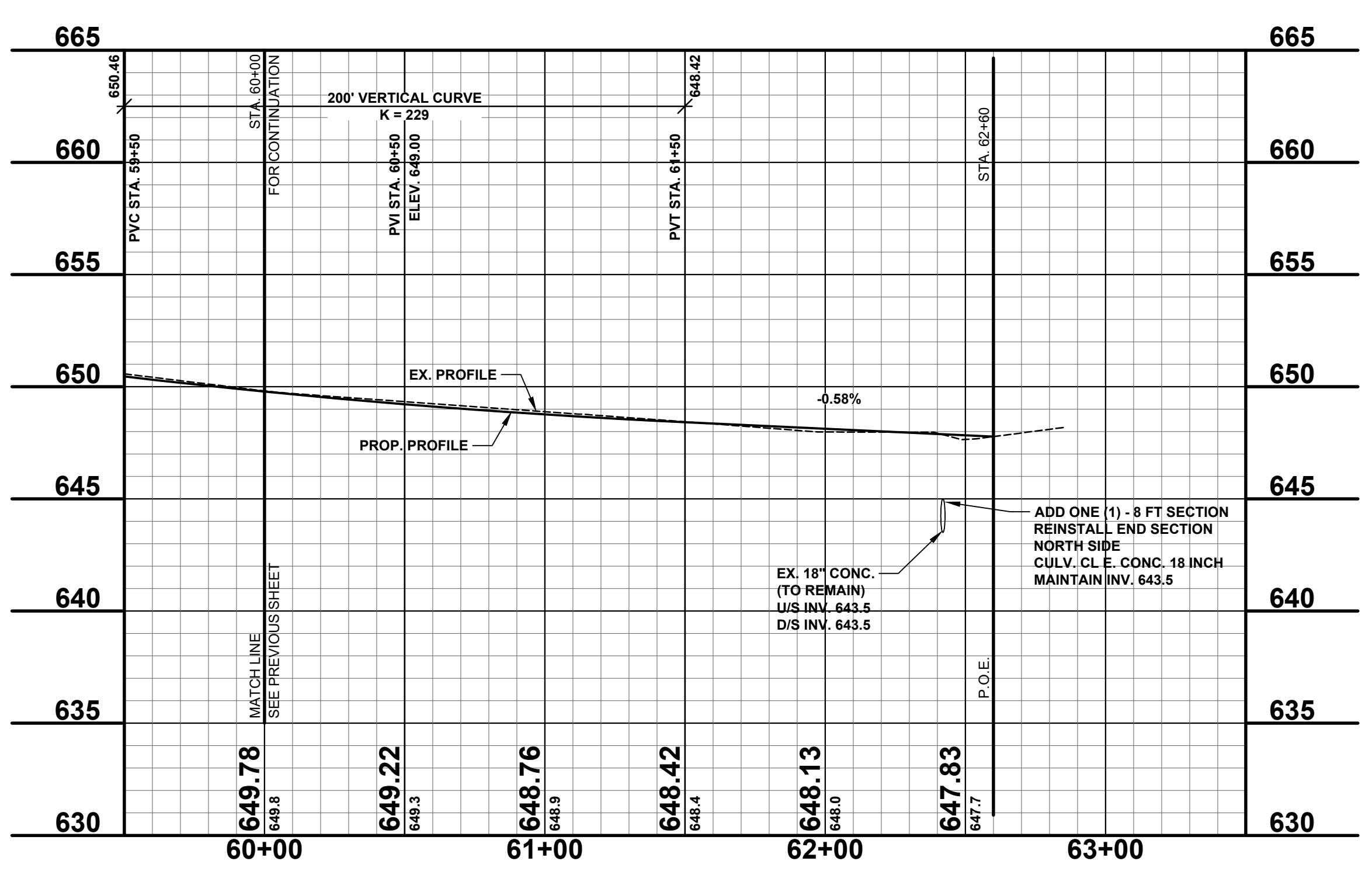
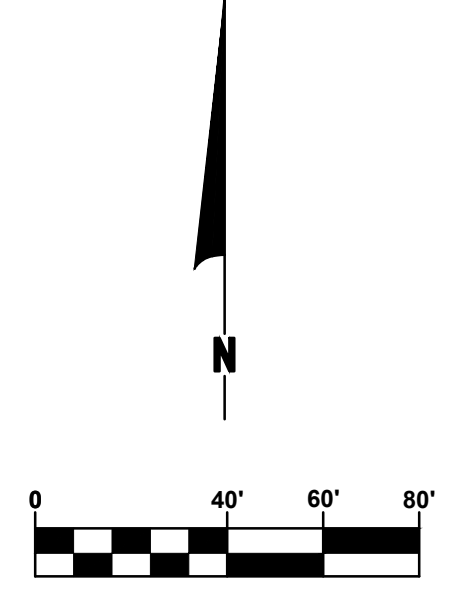
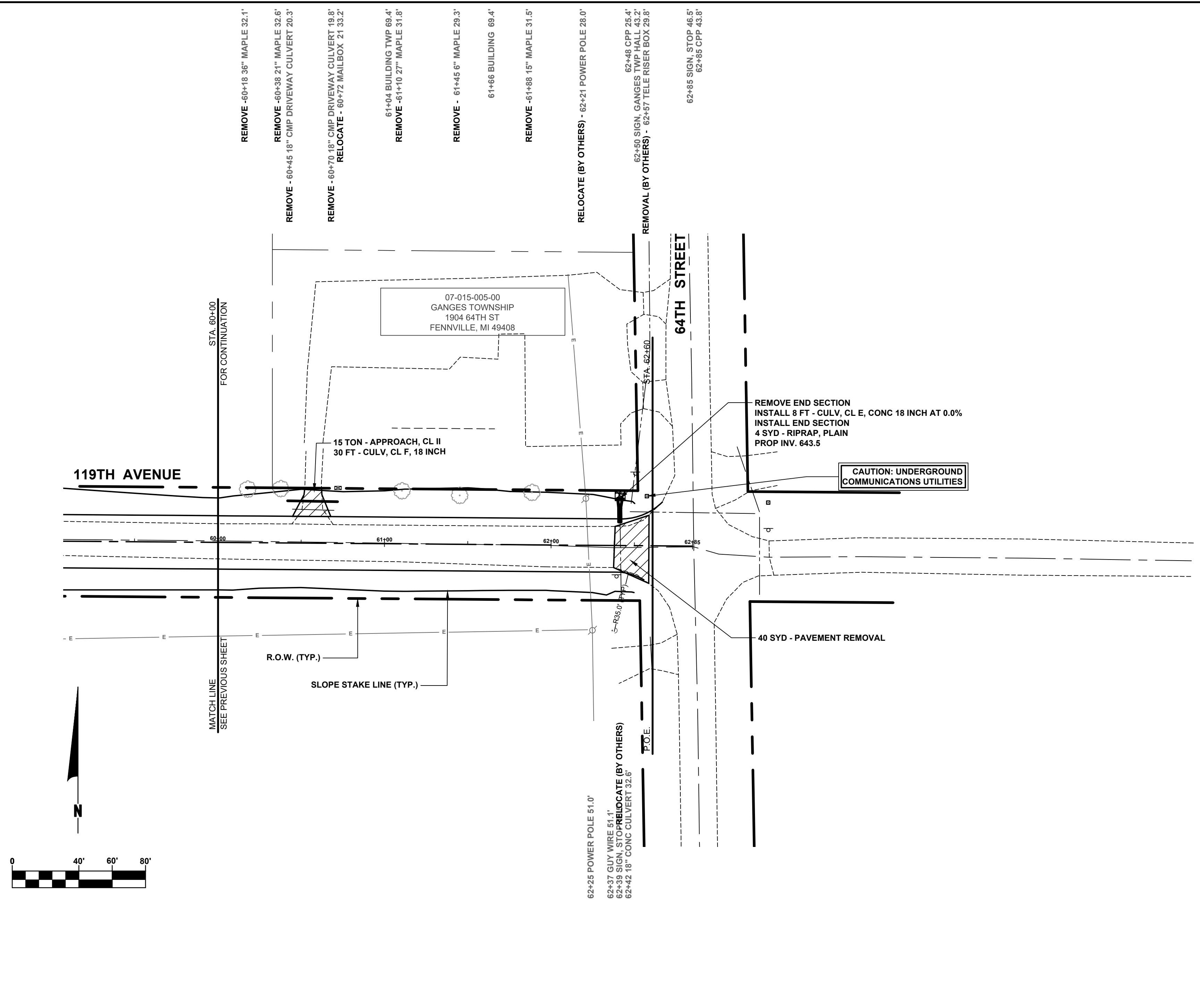
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119TH AVENUE RECONSTRUCTION PROJECT
GANGES TOWNSHIP - 66TH STREET TO 64TH STREET

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

DRAWN BY: RKA
REVIEWED BY: RK
DATE: JAN 2024
SCALE: AS NOTED

LH 400149 7



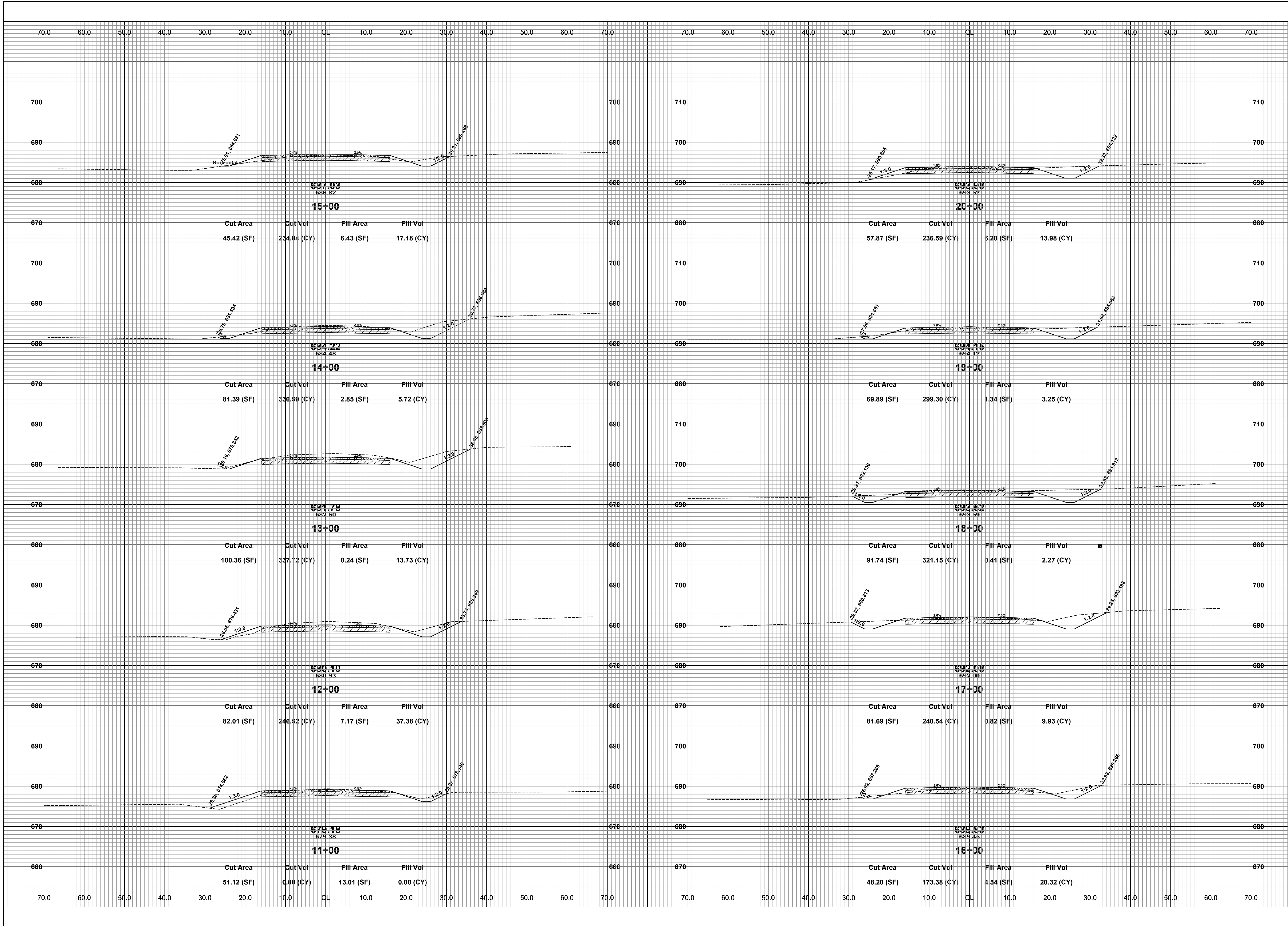
- LEGEND**
- REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CLASS II TO A DEPTH OF 6". AS DIRECTED BY THE ENGINEER IN THE FIELD, PAID FOR AS APPROACH, CL II BY THE TON.
 - SAWCUT AND REMOVE EXISTING HMA PAVEMENT. REGRADE EXISTING DRIVE OR APPROACH AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 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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119TH AVENUE RECONSTRUCTION PROJECT
GANGES TOWNSHIP - 66TH STREET TO 64TH STREET

PLAN & PROFILE - STA. 60+00 TO STA. P.O.E.

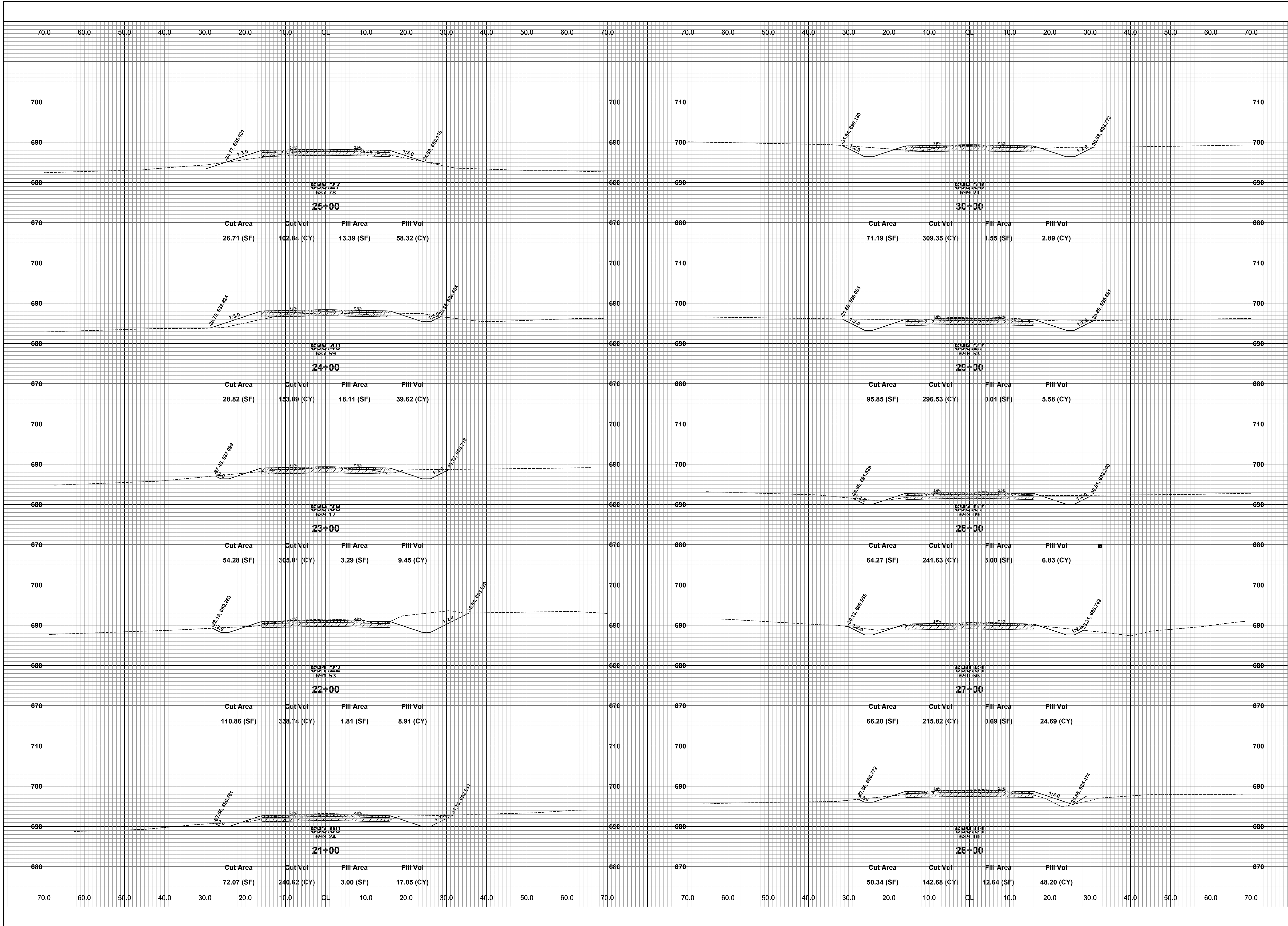
DRAWN BY:	RKA
REVIEWED BY:	RK
DATE:	JAN 2024
SCALE:	AS NOTED



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119TH AVENUE RECONSTRUCTION PROJECT
GANGES TOWNSHIP - 66TH STREET TO 64TH STREET
CROSS SECTIONS - STA. 11+00 TO STA. 20+00

DRAWN BY: R.K.A.
REVIEWED BY: R.K.
DATE: JAN 2024
SCALE: 1" = 10'

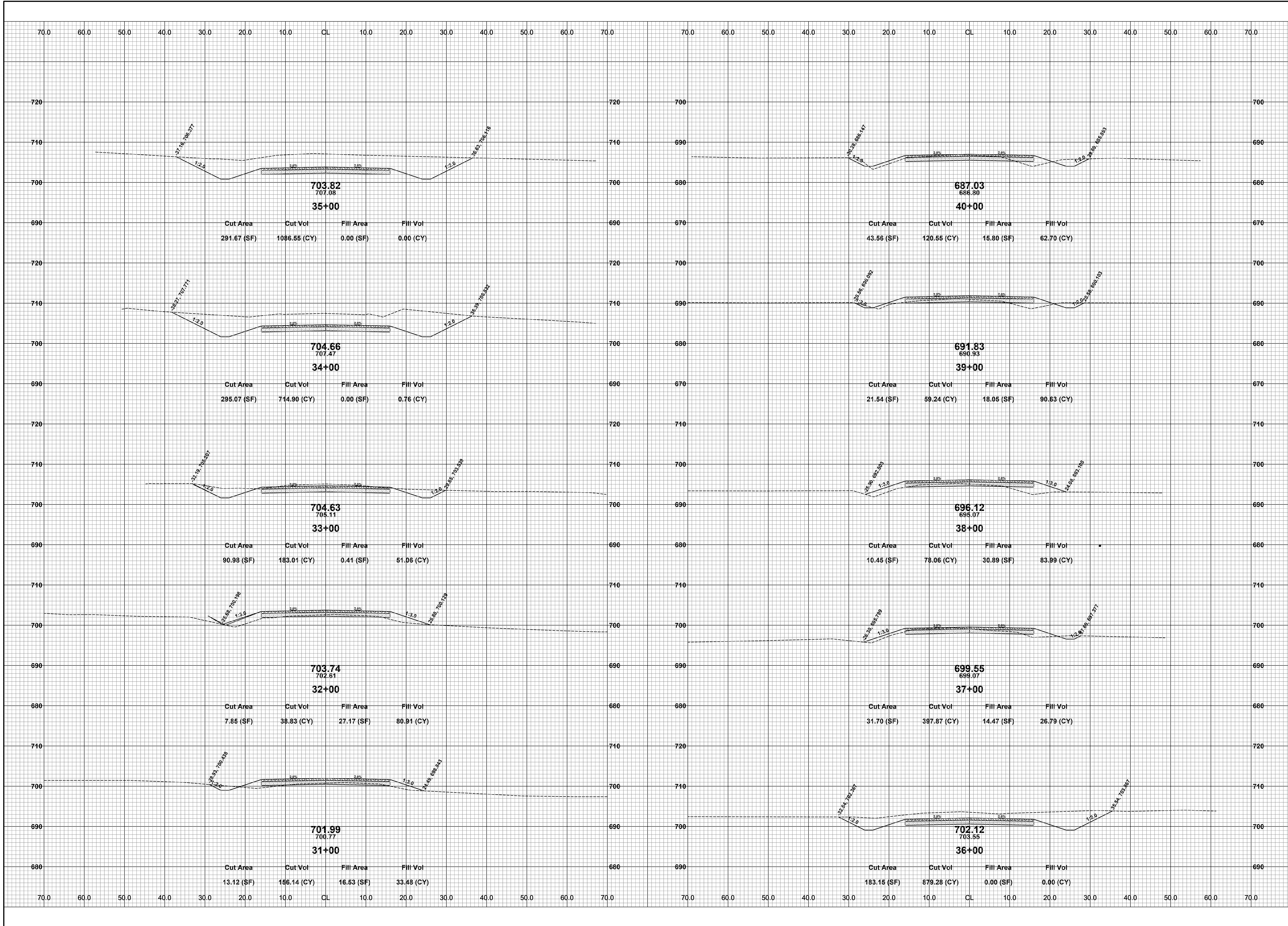


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119TH AVENUE RECONSTRUCTION PROJECT
GANGES TOWNSHIP - 66TH STREET TO 64TH STREET
CROSS SECTIONS - STA. 21+00 TO STA. 30+00

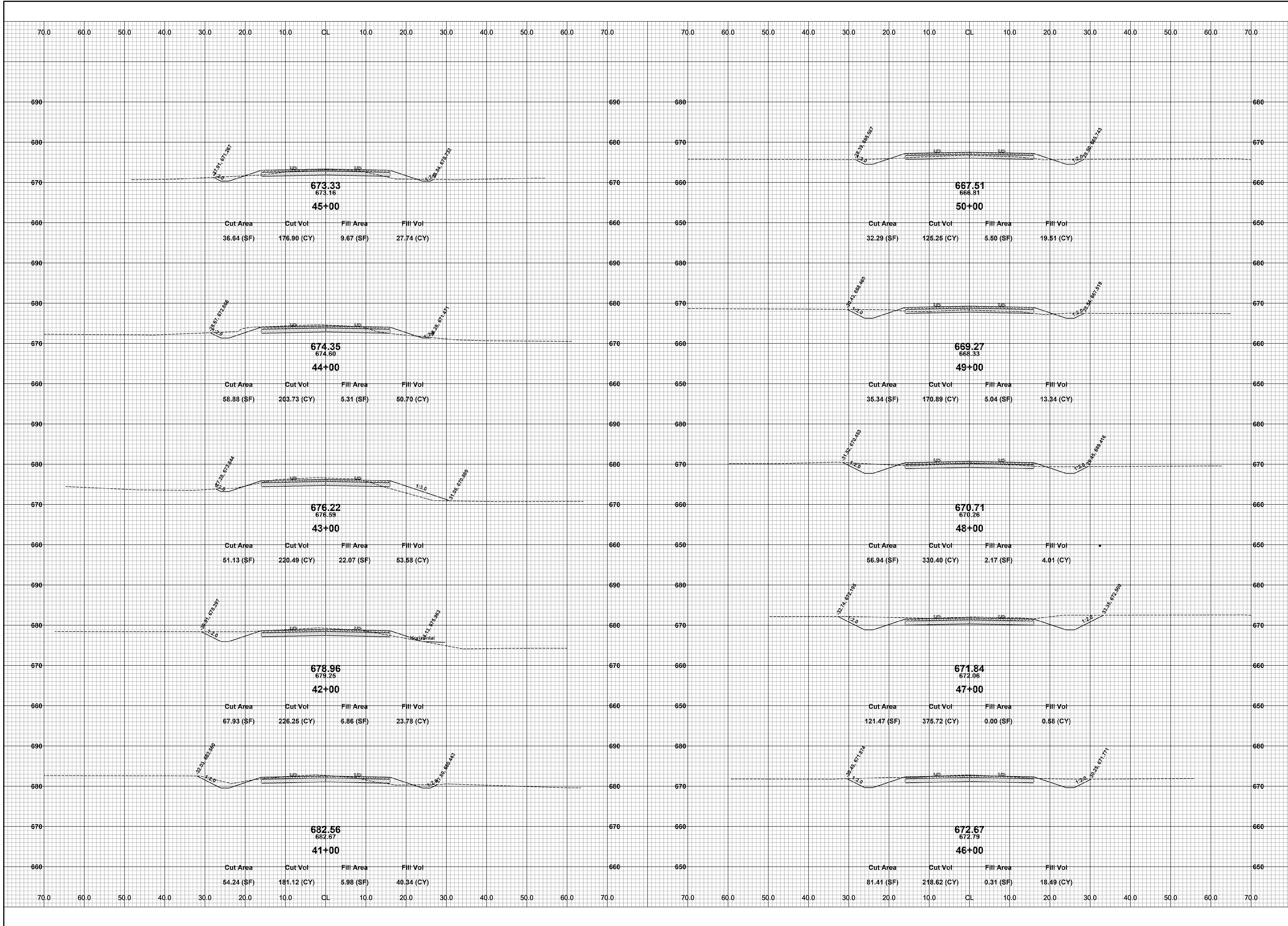
DRAWN BY: R.K.A.
REVIEWED BY: R.K.
DATE: JAN 2024
SCALE: 1"= 10'



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119TH AVENUE RECONSTRUCTION PROJECT
GANGES TOWNSHIP - 66TH STREET TO 64TH STREET
CROSS SECTIONS - STA. 31+00 TO STA. 40+00

DRAWN BY: R.K.A.
REVIEWED BY: R.K.
DATE: JAN 2024
SCALE: 1"= 10'

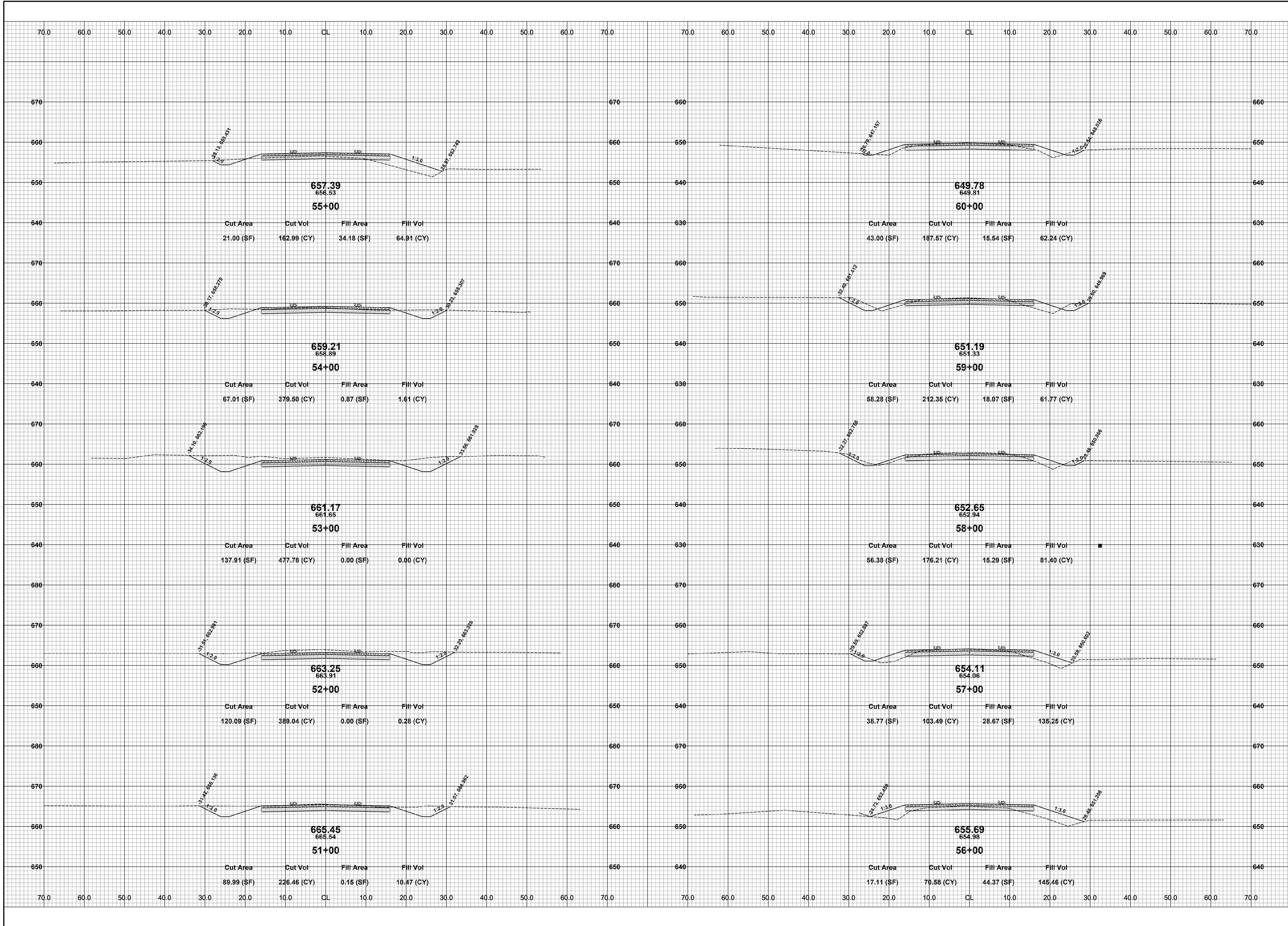


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119TH AVENUE RECONSTRUCTION PROJECT
GANGES TOWNSHIP - 66TH STREET TO 64TH STREET
CROSS SECTIONS - STA. 41+00 TO STA. 50+00

DRAWN BY: R.K.A.
REVIEWED BY: R.K.
DATE: JAN 2024
SCALE: 1"= 10'



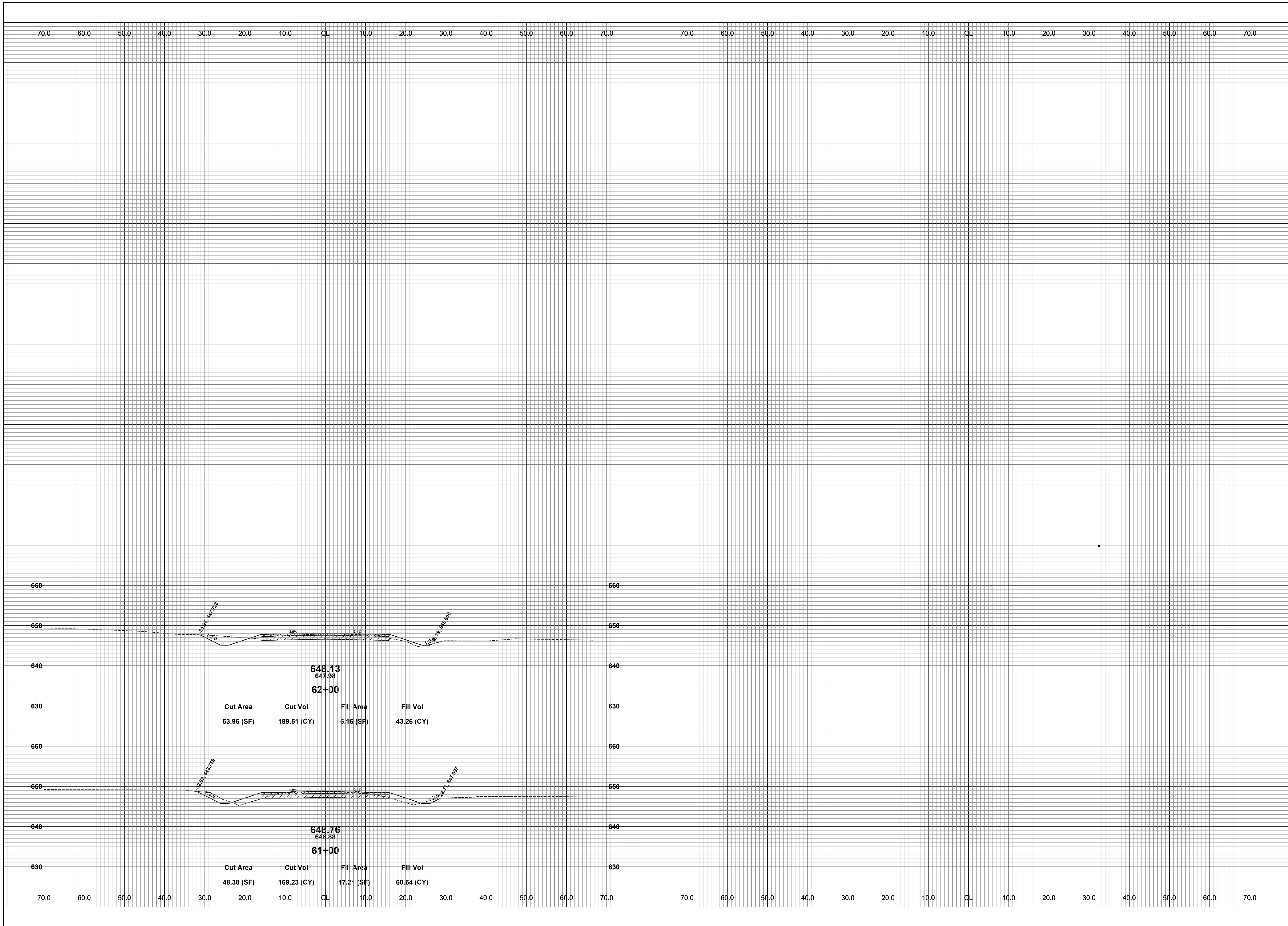
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119TH AVENUE RECONSTRUCTION PROJECT
GANGES TOWNSHIP - 66TH STREET TO 64TH STREET
CROSS SECTIONS - STA. 51+00 TO STA. 60+00

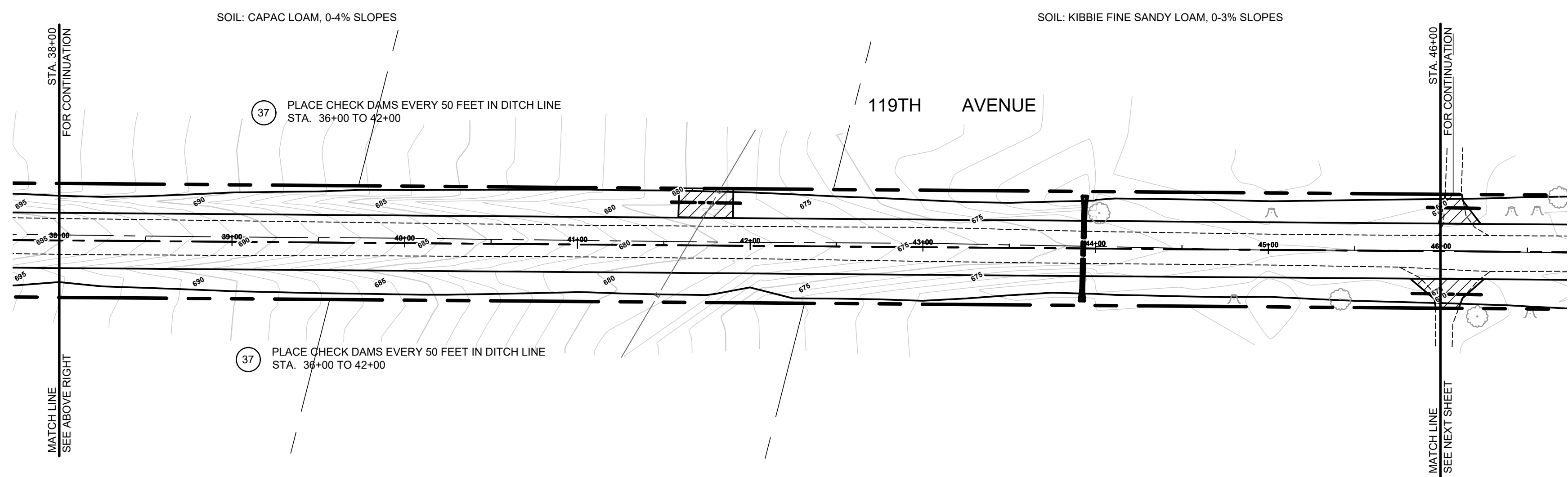
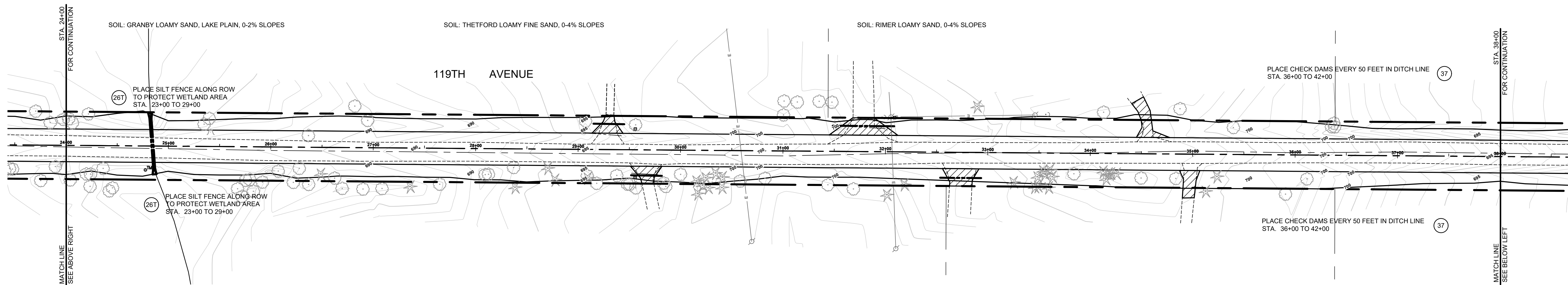
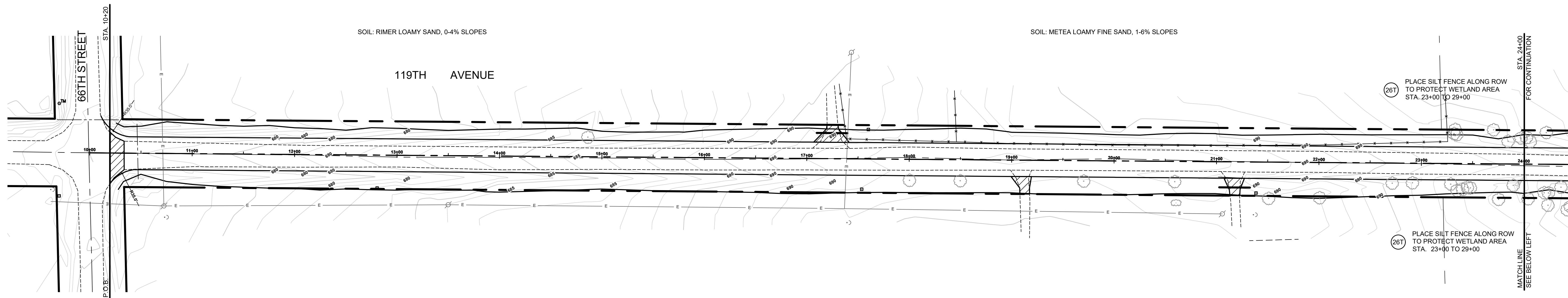
DRAWN BY: R.K.A.
REVIEWED BY: R.K.
DATE: JAN 2024
SCALE: 1"= 10'



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119TH AVENUE RECONSTRUCTION PROJECT
 GANGES TOWNSHIP - 66TH STREET TO 64TH STREET
 CROSS SECTIONS - STA. 61+00 TO STA. 62+00

DRAWN BY: R.K.A.
 REVIEWED BY: R.K.
 DATE: JAN 2024
 SCALE: 1"= 10'

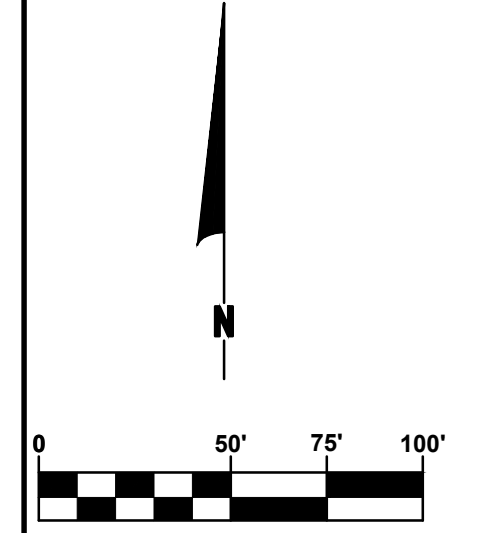


SOIL EROSION & SEDIMENTATION CONTROL NOTES

- ALL CONSTRUCTION METHODS WILL BE DONE IN COMPLIANCE WITH THE MICHIGAN SOIL EROSION AND SEDIMENTATION CONTROL ACT. THE COUNTY ROAD COMMISSION WILL OBTAIN A NOTICE OF COVERAGE FROM EGLE PRIOR TO START OF CONSTRUCTION IF THE DISTURBANCE AREA OF THE PROJECT IS GREATER THAN FIVE ACRES. THE CONTRACTOR WILL BE RESPONSIBLE FOR COMPLYING WITH ALL REQUIREMENTS OF THE MICHIGAN DEPARTMENT OF TRANSPORTATION'S SESC MANUAL. 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.
 - AVOID UNNECESSARY DISTURBING OR REMOVING OF EXISTING VEGETATED TOPSOIL OR EARTH COVER. THESE COVER AREAS ACT AS SEDIMENT FILTERS.
 - ALL TEMPORARY SOIL EROSION PROTECTION WILL REMAIN IN PLACE UNTIL REMOVAL IS REQUIRED FOR FINAL CLEAN UP AND APPROVAL.
 - 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.
 - MAINTENANCE, CLEANING, AND REMOVAL OF THE VARIOUS SEDIMENT CONTROL MEASURES WILL BE INCLUDED IN THE VARIOUS EROSION CONTROL ITEMS.
 - 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](http://websoilsurvey.nrcs.usda.gov)
 - TEMPORARY EROSION CONTROL MEASURES WILL NOT BE MANDATORY IF STORMWATER IS DETERMINED TO BE TOPOGRAPHICALLY INCAPABLE OF LEAVING SITE.
 - SLOPE STAKE LINES AS CALLED OUT IN THE PLAN SHEETS DEFINE THE EARTH CHANGE LIMITS FOR THIS PROJECT.
 - 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.
 - TIMING & SEQUENCE: ALL SOIL EROSION & SEDIMENTATION CONTROL MEASURES MUST BE INSTALLED IN PROXIMITY TO WORK AREAS PRIOR TO WORK COMMENCING. UPON FINAL GRADING, PERMANENT EROSION AND SEDIMENTATION CONTROL MUST BE COMPLETED WITHIN TWENTY-FOUR HOURS WITHIN 150 FEET OF BODIES OF WATER, AND WITHIN FIVE DAYS ELSEWHERE.
- 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.
- 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 OR 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, 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.
- 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.
- CHECK DAMS WILL BE INSTALLED AT THE LOCATIONS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER IN THE FIELD.

TIMING & SEQUENCE	MONTH 1			MONTH 2			MONTH 3						
	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8	WEEK 9	WEEK 10	WEEK 11	WEEK 12	WEEK 13
ANTICIPATED START DATE: APRIL 1, 2024													
INSTALL/MAINTAIN TEMPORARY CONTROL MEASURES	■	■	■	■	■	■	■	■	■	■	■	■	■
SITE CLEARING	■												
CULVERT INSTALLATIONS													
ROADWAY/SLOPE RECONSTRUCTION													
SLOPE RESTORATION/INSTALL PERMANENT CONTROL MEASURES													
REMOVE TEMPORARY MEASURES													

*SCHEDULE MAY BE ADJUSTED DEPENDING ON CONTRACTOR'S MEANS & METHODS



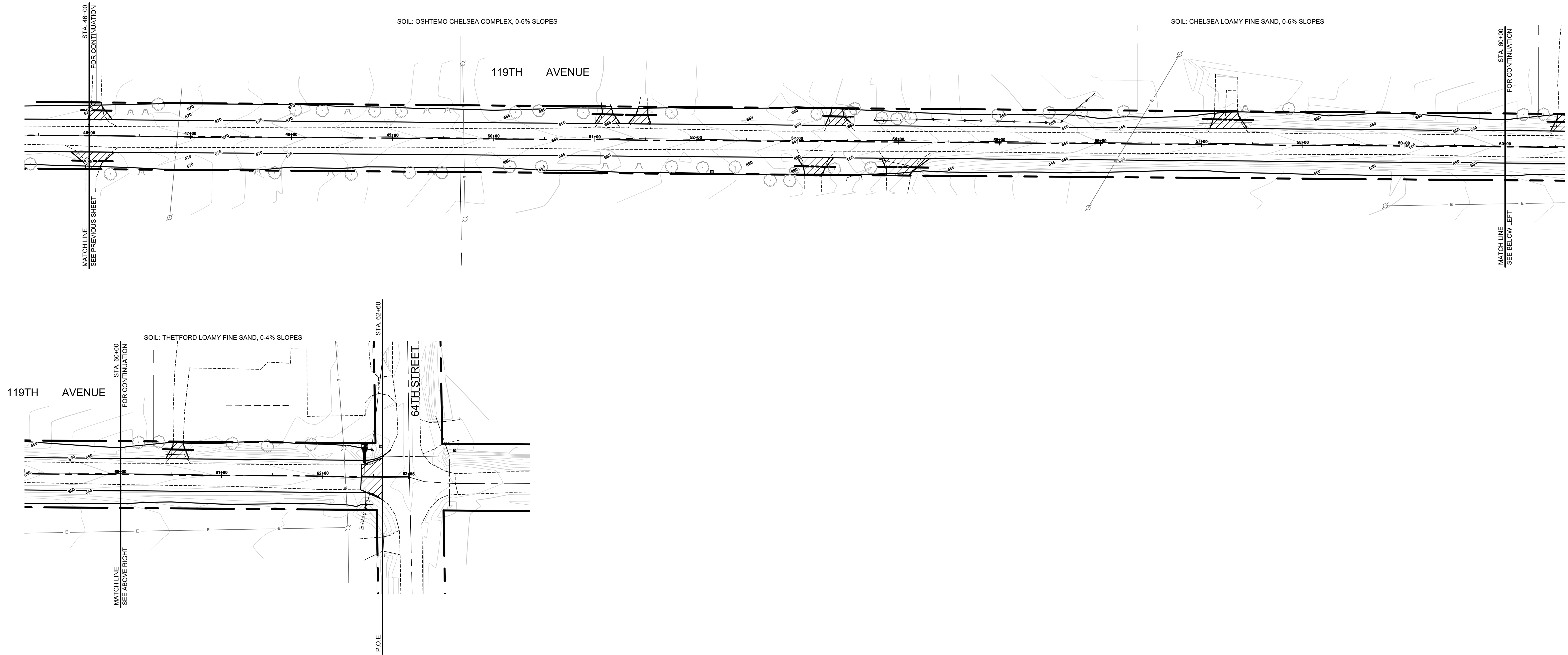
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119TH AVENUE RECONSTRUCTION PROJECT
GANGES TOWNSHIP
SOIL EROSION AND SEDIMENTATION CONTROL PLAN

DRAWN BY: RKA
REVIEWED BY: RK
DATE: JAN 2024
SCALE: NONE

LH 400149 15



TIMING & SEQUENCE	MONTH 1				MONTH 2				MONTH 3				
ANTICIPATED START DATE: APRIL 1, 2024	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8	WEEK 9	WEEK 10	WEEK 11	WEEK 12	WEEK 13
INSTALL/MAINTAIN TEMPORARY CONTROL MEASURES													
SITE CLEARING													
CULVERT INSTALLATIONS													
ROADWAY/SLOPE RECONSTRUCTION													
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SOIL EROSION & SEDIMENTATION CONTROL NOTES

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119TH AVENUE RECONSTRUCTION PROJECT
GANGES TOWNSHIP

SOIL EROSION AND SEDIMENTATION CONTROL PLAN

DRAWN BY: RKA
REVIEWED BY: RK
DATE: JAN 2024
SCALE: NONE