

# ALLEGAN COUNTY ROAD COMMISSION

## 6TH STREET AND 131ST AVENUE RECONSTRUCTION

### GREGORVILLE ROAD TO 4TH STREET

### WAYLAND TOWNSHIP

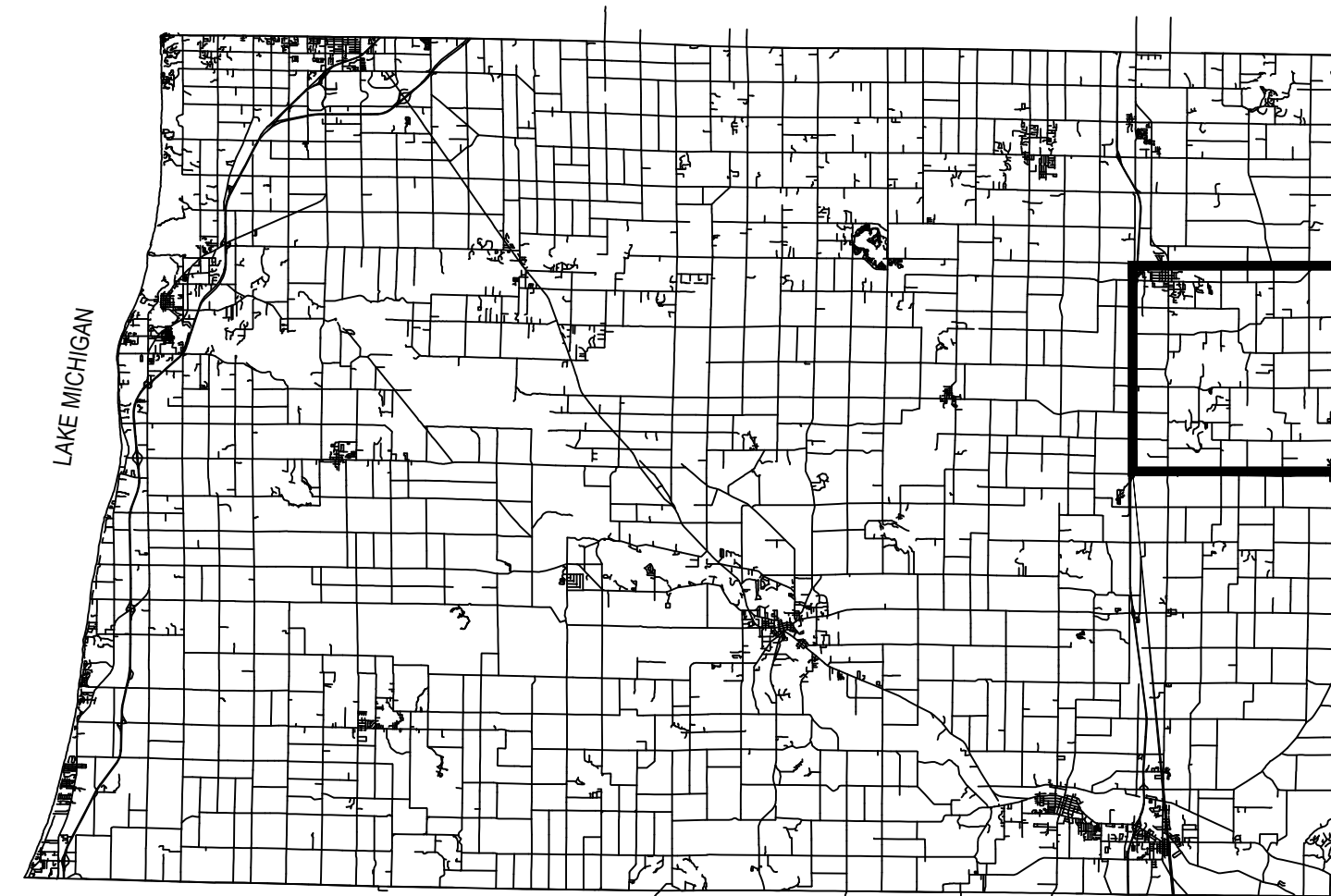
EXCEPT WHERE OTHERWISE INDICATED ON THESE PLANS OR IN THE PROPOSAL AND SUPPLEMENTAL SPECIFICATIONS CONTAINED THEREIN, ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE 2012 MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION.

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 NEEDED.

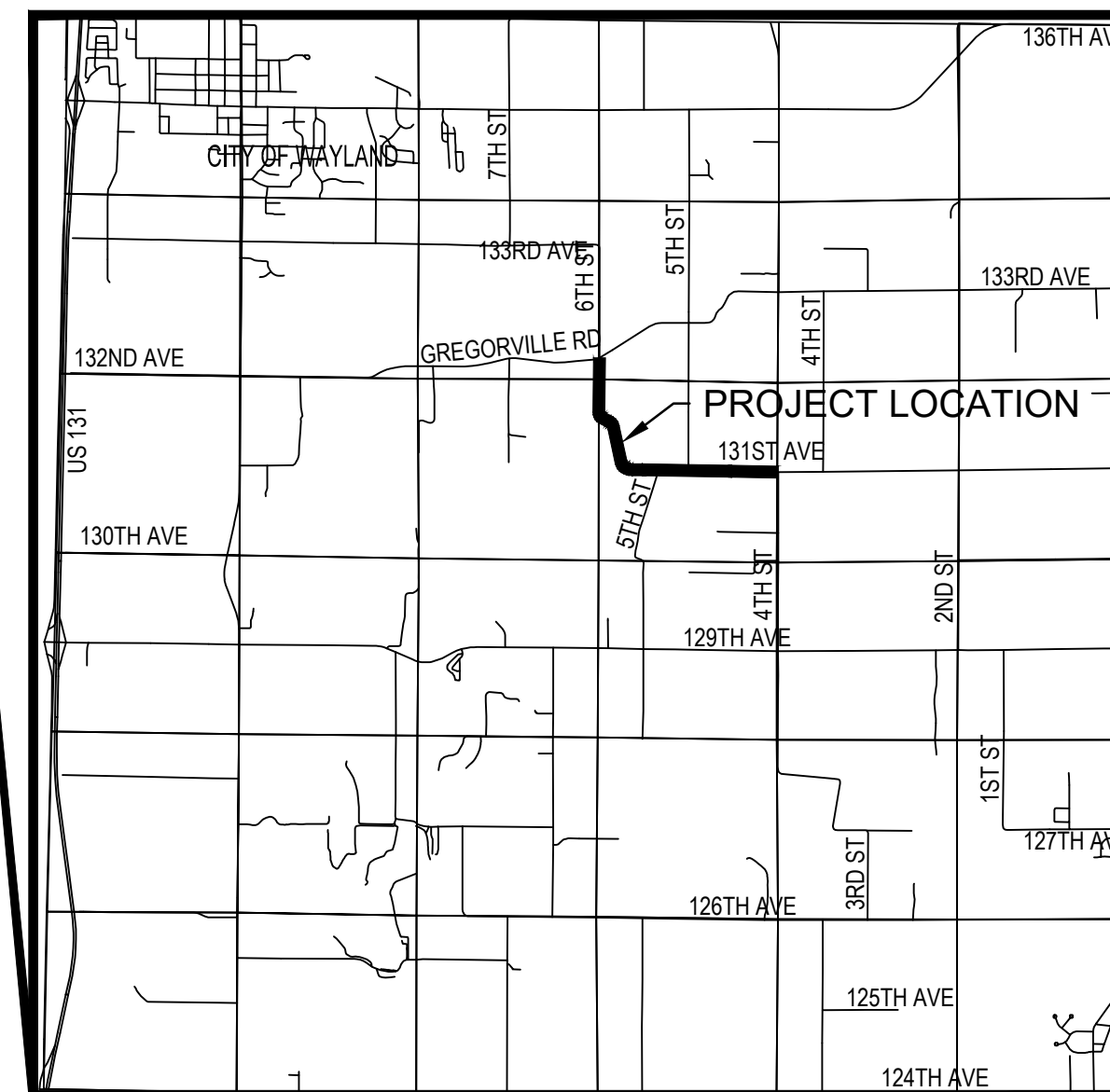
THE CONTRACTOR SHALL DIAL MISS DIG @ 811 FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013 A MINIMUM OF THREE WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. 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.

#### INDEX OF PLANS

- 1 COVER SHEET
- 2 TYPICAL SECTION
- 3 PLAN AND PROFILE
- 4 PLAN AND PROFILE
- 5 PLAN AND PROFILE
- 6 PLAN AND PROFILE
- 7 PLAN AND PROFILE
- 8 PLAN AND PROFILE
- 9 PLAN AND PROFILE
- 10 PLAN AND PROFILE
- 11 PLAN AND PROFILE
- 12 CROSS SECTIONS
- 13 CROSS SECTIONS
- 14 CROSS SECTIONS
- 15 CROSS SECTIONS
- 16 CROSS SECTIONS
- 17 CROSS SECTIONS
- 18 CROSS SECTIONS
- 19 CROSS SECTIONS
- 20 CROSS SECTIONS
- 21 CROSS SECTIONS
- 22 CROSS SECTIONS
- 23 CROSS SECTIONS
- 24 CROSS SECTIONS
- 25 CROSS SECTIONS
- 26 CROSS SECTIONS
- 27 CROSS SECTIONS
- 28 SESC PLAN
- 29 SESC PLAN



ALLEGAN COUNTY, MICHIGAN  
NOT TO SCALE



WAYLAND TOWNSHIP  
NOT TO SCALE



Know what's below.  
Call before you dig.

#### UTILITY CONTACTS

**ELECTRIC** "MISSDIG" 811  
GREAT LAKES ENERGY COOPERATIVE  
PO BOX 70  
1323 BOYNE AVE  
BOYNE CITY, MI 49712  
231-487-1332  
MS. KIMBERLY MATELSKI  
dispatch@glenergy.com

**GAS**  
CONSUMERS ENERGY  
530 W WILLOW ST  
LANSING, MI 48906  
800-477-5050  
MR. KURT GOLDING  
missdigdesignickets@cmsenergy.com

**TELEPHONE/CABLE**  
AT&T  
54 N MILL ST  
PONTIAC, MI 48342  
248-456-8256  
MS. LINDA DENNISUK  
ld2154@att.com

**CONTRACT FOR ROAD IMPROVEMENTS**  
1.50 MILES OF ROADWAY RECONSTRUCTION INCLUDING CLEARING, GRADE ESTABLISHMENT, SAND SUBBASE, AGGREGATE BASE, CROSS CULVERT REPLACEMENT, AND RESTORATION ON 6TH STREET AND 131ST AVENUE IN WAYLAND TOWNSHIP, ALLEGAN COUNTY.

PREPARED UNDER THE SUPERVISION OF:



LYNNELLE E. BERKENPAS, PE  
REGISTERED PROFESSIONAL ENGINEER No. 6201057578

BOARD OF COUNTY ROAD  
COMMISSIONERS OF  
ALLEGAN COUNTY  
ATTN: MR. JASON EDWARDS  
1308 LINCOLN RD  
ALLEGAN, MI 49010

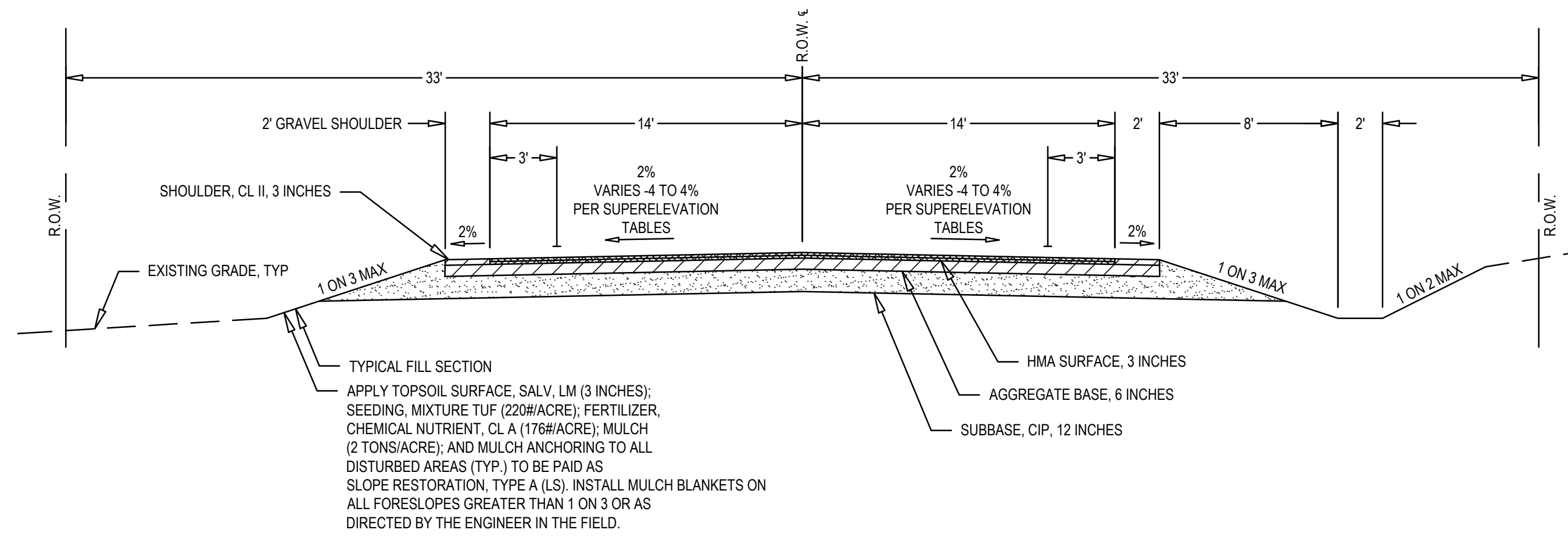
6TH ST & 131ST AVE  
RECONSTRUCTION  
132ND AVE TO 4TH ST  
WAYLAND TWP, ALLEGAN CO, MI 49348

No.	Description	Date
A	90% REVIEW SET	03/12/2020
B	ISSUED FOR BIDDING	04/02/2020

Project Manager LYNNELLE E. BERKENPAS, P.E.	
ACRC Project Number LH 4042	
Drawn by RACHAEL M. NAGELKIRK, EIT	
Checked by Survey	Date
Civil	.
Struc.	.
L. A.	.
HEI Project Number 19-11-011	
Sheet Title COVER SHEET	
Sheet No. 1	

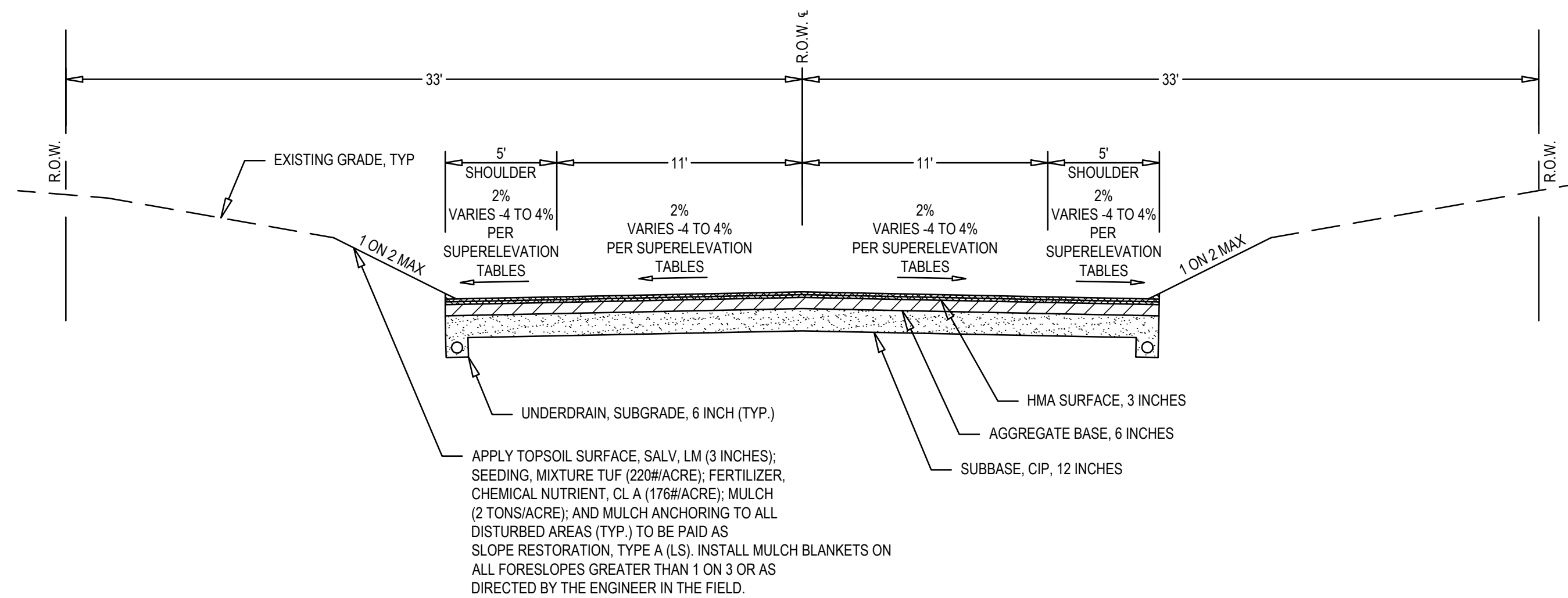
**HOLLAND**  
ENGINEERING  
220 Hoover Boulevard  
Holland, Michigan 49423-3766  
www.hollandengineering.com  
T 616-392-5938 F 616-392-2116

The Surveyor's / Engineer's liability for any and all claims, including but not limited to those arising out of the performance of professional services, negligence, gross negligence or misrepresentations shall be deemed limited to an amount no greater than the service fee.



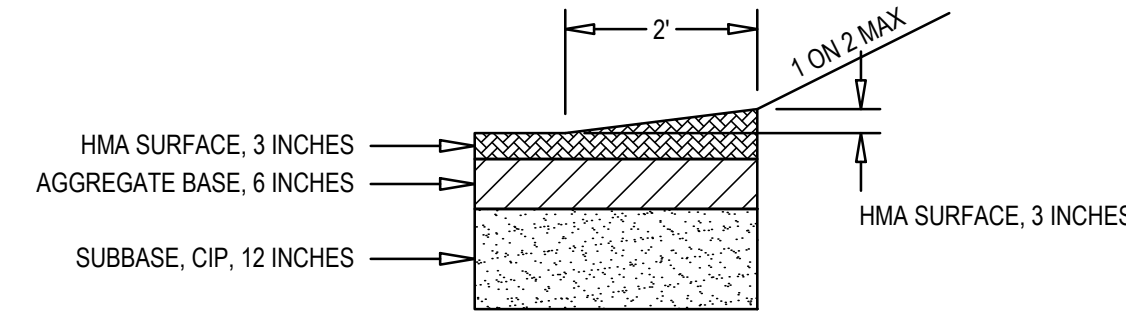
**TYPICAL SECTION - 6TH STREET AND 131ST AVENUE**  
SCALE: 1" = 5'

THIS SECTION APPLIES TO:  
P.O.B TO P.O.E EXCEPT AS NOTED BELOW

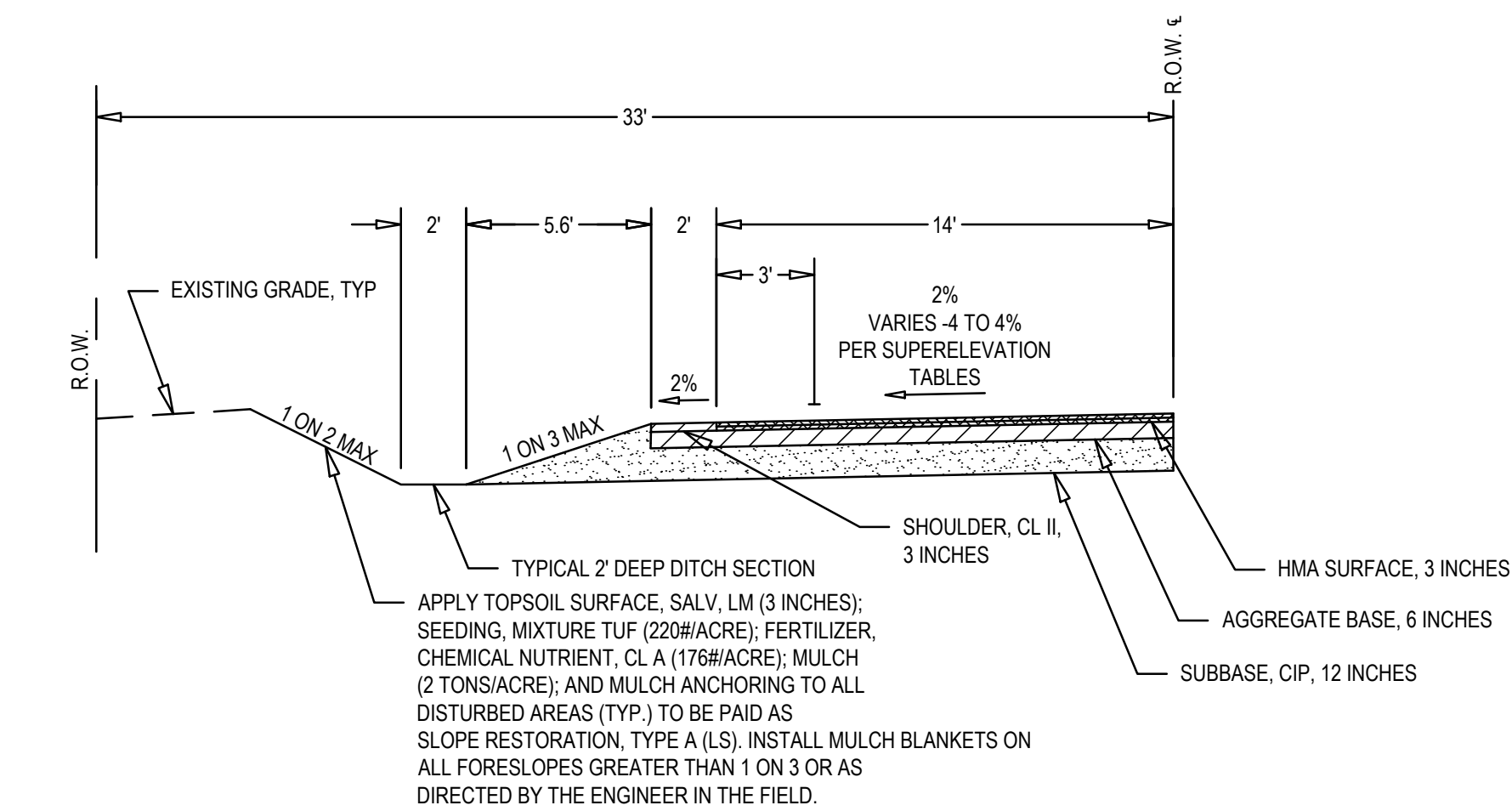


**TYPICAL SECTION - VALLEY GUTTER**  
SCALE: 1" = 5'

THIS SECTION APPLIES TO:  
STA. 43+79.08 TO 49+01.54 RIGHT ONLY



**BITUMINOUS VALLEY GUTTER**  
SCALE: 1" = 10'



**SHALLOW LEFT DITCH SECTION - 6TH STREET AND 131ST AVENUE**  
SCALE: 1" = 5'

THIS SECTION APPLIES TO:  
STA. 36+00 TO STA. 50+50

ITEM	AWI	YIELD	PERFORMANCE GRADE
HMA LVSP (TOP)	220	165#/SYD	PG 64 - 22
HMA LVSP (LEVELING)		165#/SYD	PG 64 - 22
HMA BOND COAT (NOT A PAY ITEM)		0.05 TO 0.15 GAL/SYD	SS - 1h

**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 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.

THE SOIL BORINGS WERE TAKEN BY GREAT LAKES DRILLING COMPANY P.O. BOX 51 ALLEGAN, MI 49010 ON 12/16/2019. THE TEST BORINGS REPRESENT POINT INFORMATION AND MAY NOT HAVE ENCOUNTERED ALL THE TYPES AND MATERIALS WHICH ARE PRESENT AT THE SITE. THESE BORING LOSS DO NOT CONSTITUTE A GUARANTEE OF THE SOIL OR GROUNDWATER CONDITIONS, OR THAT THE TEST BORINGS ARE AN EXACT REPRESENTATION FOR 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); MOOT SEED MIXTURE TUF (220#/ACRE); FERTILIZER, CHEMICAL NUTRIENT, CL A (176#/ACRE); AND MULCH AND MULCH ANCHORING (2 TONS/ACRE), TO BE PAID AS SLOPE RESTORATION, TYPE A. HIGH VELOCITY MULCH BLANKET WILL BE USED AT THE DISCRETION OF THE ENGINEER, 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.

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.

THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL PERMANENT SIGNS THAT ARE IN PLACE DURING THE PROJECT. ALLEGAN COUNTY ROAD COMMISSION INTENDS TO REPLACE THE SIGNS EITHER DURING OR AFTER THE PROJECT, AND THE CONTRACTOR SHALL COORDINATE THEIR EFFORTS WITH THIS WORK.

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 IS OPERATIONS IN A MANNER AS TO ENSURE THAT THOSE UTILITIES NOT REQUIRING RELOCATION WILL NOT BE DISTURBED.

The Surveyors / Engineers are responsible for any and all claims, including but not limited to those arising out of the professional services rendered hereunder, and shall be deemed limited to an amount no greater than the service fee.

**ALLEGAN COUNTY ROAD COMMISSION**

ATTN: MR. JASON EDWARDS  
1308 LINCOLN RD  
ALLEGAN, MI 49010

**6TH ST & 131ST AVE RECONSTRUCTION**

GREGORVILLE RD TO 4TH ST  
WAYLAND TWP., ALLEGAN CO., MI 49348

No.	Description	Date
A	80% REVIEW SET	03/13/2020
B	ISSUED FOR BIDDING	04/09/2020

Project Manager  
LYNNELLE E. BERKENPAS, PE

Drawn by  
RACHAEL M. NAGELKIRK, EIT

Checked by	Date
Survey	.
Civil	.
Struc.	.
L. A.	.

HEI Project Number  
19-11-011

Sheet Title  
**TYPICAL SECTIONS, DETAILS, & NOTES**

Sheet No.



The Surveyor's / Engineer's liability for any and all claims, including those arising out of the Surveyor's / Engineer's professional services, including, but not limited to, misrepresentation shall be deemed limited to an amount not greater than the service fee.

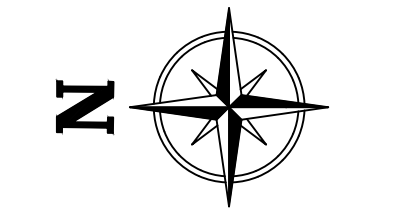
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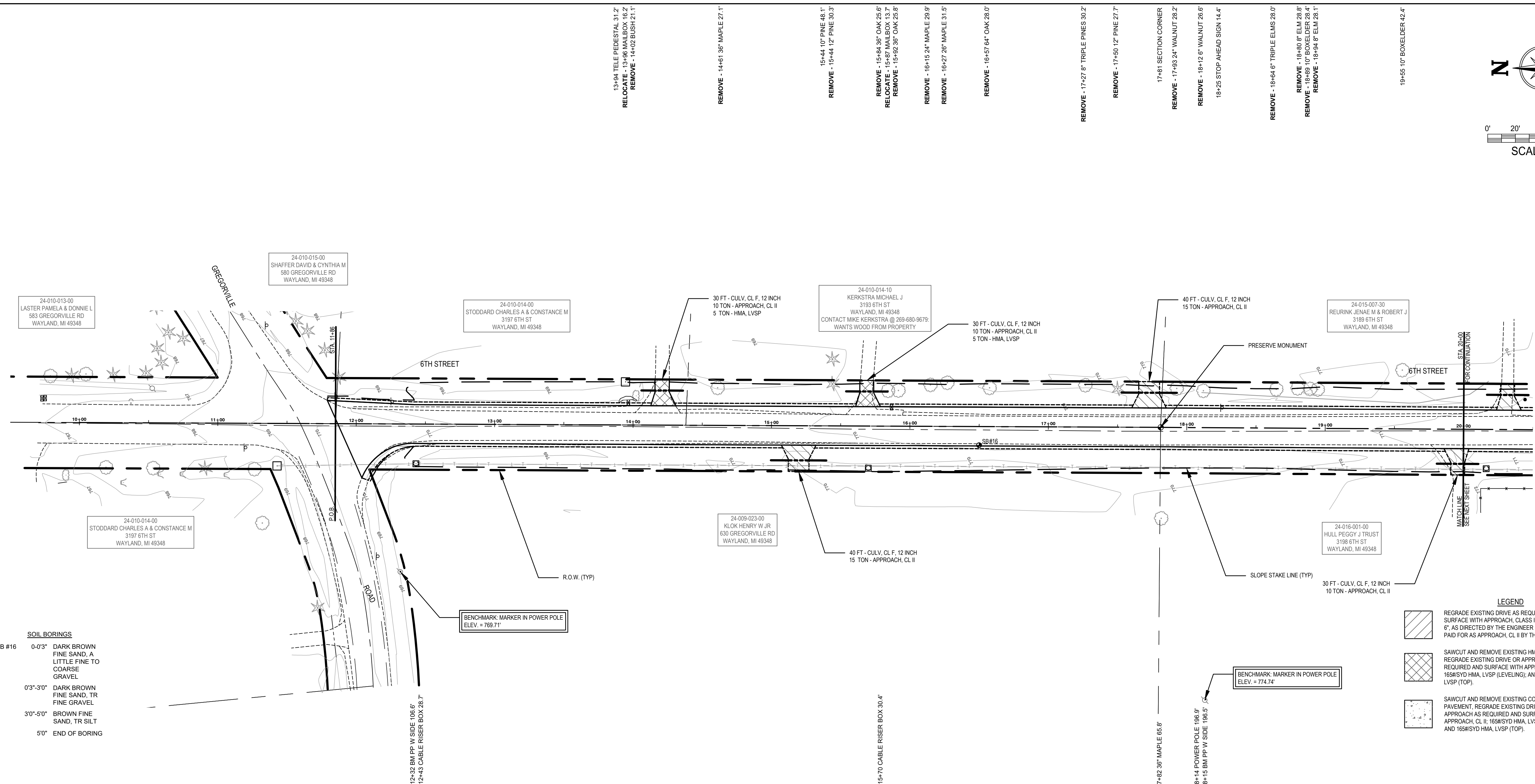
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PLAN & PROFILE	
P.O.B. TO STA.	
20+00	
Sheet No.	
3	



0' 20' 40' 80'  
SCALE 1" = 40'



**SOIL BORINGS**

SB #16

0'-03" DARK BROWN FINE SAND, A LITTLE FINE TO COARSE GRAVEL

0'-3"-30" DARK BROWN FINE SAND, TR FINE GRAVEL

3'-0"-50" BROWN FINE SAND, TR SILT

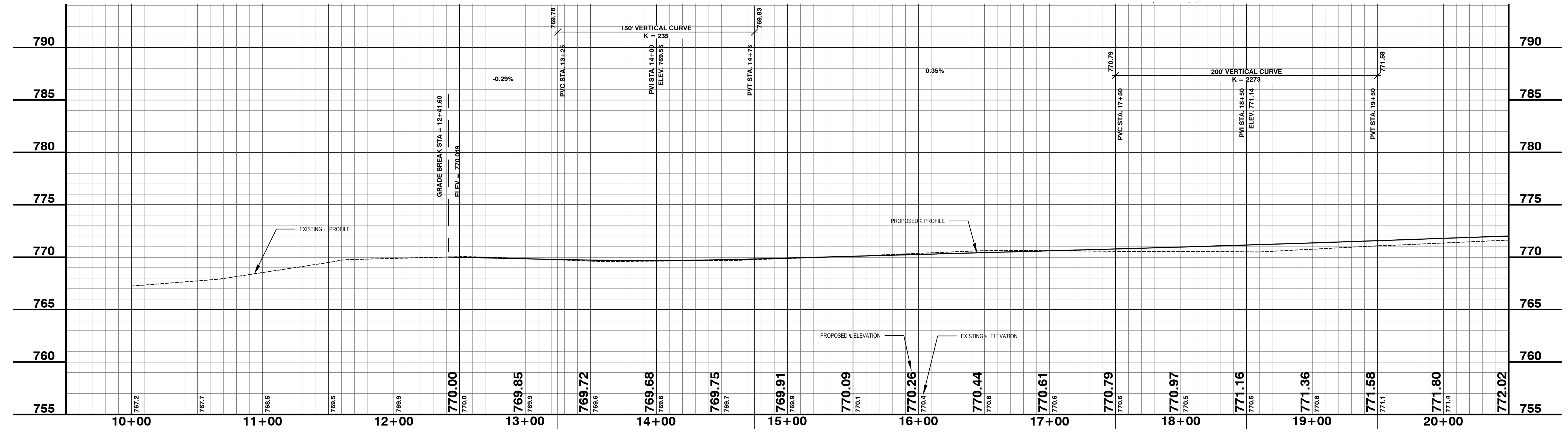
50' END OF BORING

**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, LVSP (LEVELING); AND 165#/SYD HMA, LVSP (TOP).

SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT, REGRADE EXISTING DRIVE OR APPROACH AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, LVSP (LEVELING); AND 165#/SYD HMA, LVSP (TOP).



The Surveyors / Engineers for any and all claims including but not limited to those arising out of the performance of professional services, negligence, gross misconduct, warranties or misstatements shall be deemed limited to an amount no greater than the service fee.

**ALLEGAN COUNTY ROAD COMMISSION**

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1308 LINCOLN RD  
ALLEGAN, MI 49010

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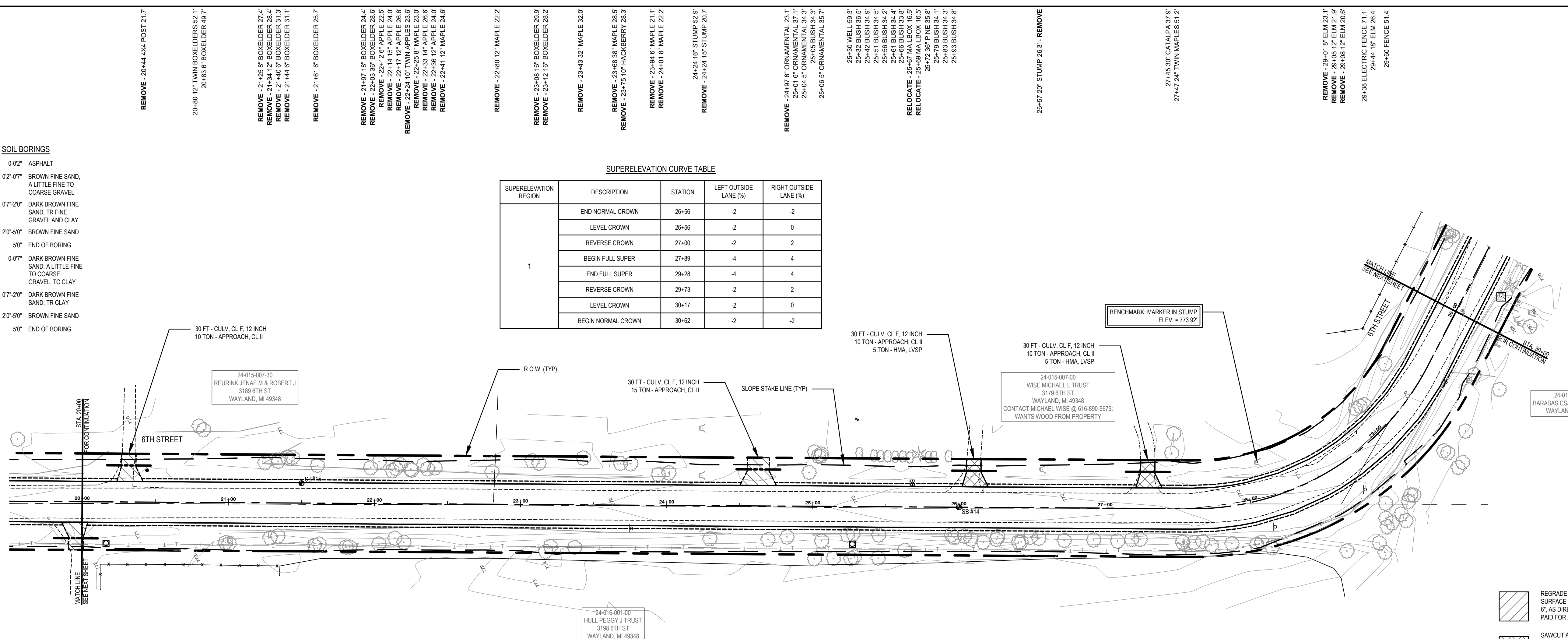
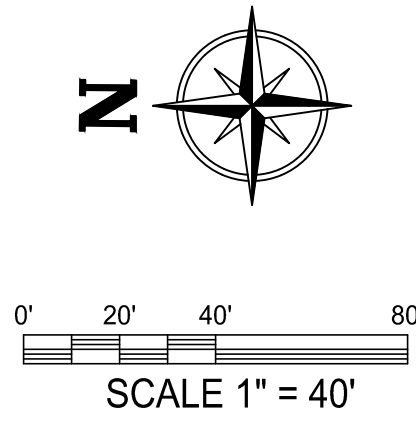
Struc. . . . .

L. A. . . . .

HEI Project Number  
19-11-011

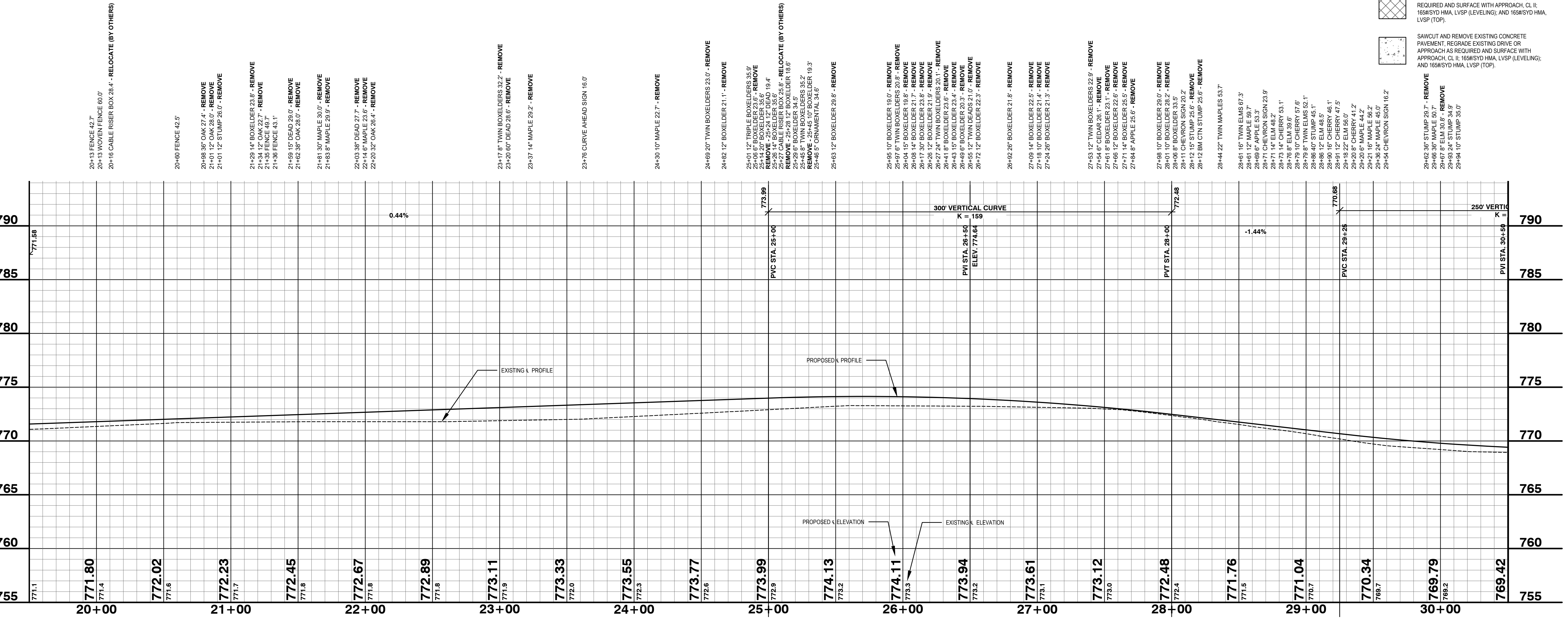
Sheet Title  
**PLAN & PROFILE**  
STA. 20+00 TO STA. 30+00

Sheet No.  
4



**SUPERELEVATION CURVE TABLE**

SUPERELEVATION REGION	DESCRIPTION	STATION	LEFT OUTSIDE LANE (%)	RIGHT OUTSIDE LANE (%)
1	END NORMAL CROWN	26+56	-2	-2
	LEVEL CROWN	26+56	-2	0
	REVERSE CROWN	27+00	-2	2
	BEGIN FULL SUPER	27+89	-4	4
	END FULL SUPER	29+28	-4	4
	REVERSE CROWN	29+73	-2	2
	LEVEL CROWN	30+17	-2	0
	BEGIN NORMAL CROWN	30+62	-2	-2



- REMOVE - 20+44-404 POST 21.7**
- 20+80 12" TWIN BOXELDERS 52.1'**  
20+83 8" BOXELDER 49.7'
- REMOVE - 21+25 8" BOXELDER 27.4'**  
**REMOVE - 21+34 12" BOXELDER 28.4'**  
**REMOVE - 21+40 6" BOXELDER 31.3'**  
**REMOVE - 21+44 6" BOXELDER 31.1'**
- REMOVE - 21+61 6" BOXELDER 25.7'**
- REMOVE - 21+97 16" BOXELDER 24.4'**  
**REMOVE - 22+03 36" BOXELDER 28.6'**  
**REMOVE - 22+12 6" APPLE 22.5'**  
**REMOVE - 22+14 15" APPLE 24.0'**  
**REMOVE - 22+24 10" TWIN APPLES 24.6'**  
**REMOVE - 22+24 10" TWIN APPLES 23.0'**  
**REMOVE - 22+25 5" MAPLE 23.0'**  
**REMOVE - 22+33 14" APPLE 26.6'**  
**REMOVE - 22+38 12" APPLE 24.0'**  
**REMOVE - 22+41 12" MAPLE 24.6'**
- REMOVE - 22+60 12" MAPLE 22.2'**
- REMOVE - 23+08 16" BOXELDER 29.9'**  
**REMOVE - 23+12 16" BOXELDER 28.2'**
- REMOVE - 23+43 32" MAPLE 32.0'**
- REMOVE - 23+68 38" MAPLE 28.5'**  
**REMOVE - 23+75 10" HACKBERRY 28.3'**
- REMOVE - 25+04 6" MAPLE 21.1'**  
**REMOVE - 24+01 8" MAPLE 22.2'**
- REMOVE - 24+24 16" STUMP 52.9'**  
**REMOVE - 24+24 15" STUMP 20.7'**
- REMOVE - 24+67 6" ORNAMENTAL 23.1'**  
**REMOVE - 24+67 6" ORNAMENTAL 27.1'**  
**REMOVE - 25+04 5" ORNAMENTAL 34.3'**  
**REMOVE - 25+05 5" ORNAMENTAL 35.7'**
- REMOVE - 25+30 12" TRIPLE BOXELDERS 35.9'**  
**REMOVE - 25+30 12" TRIPLE BOXELDERS 23.6'**  
**REMOVE - 25+34 12" DEAD 19.4'**  
**REMOVE - 25+34 12" DEAD 19.4'**
- REMOVE - 25+28 12" BOXELDER 18.6'**  
**REMOVE - 25+28 12" BOXELDER 18.6'**  
**REMOVE - 25+45 10" BOXELDER 19.3'**  
**REMOVE - 25+45 10" BOXELDER 19.3'**  
**REMOVE - 25+46 5" ORNAMENTAL 34.6'**
- REMOVE - 25+63 12" BOXELDER 29.8'**  
**REMOVE - 25+63 12" BOXELDER 29.8'**
- REMOVE - 25+95 10" BOXELDER 19.0'**  
**REMOVE - 25+97 6" TWIN BOXELDERS 26.8'**  
**REMOVE - 26+08 12" BOXELDER 21.1'**  
**REMOVE - 26+08 12" BOXELDER 21.1'**
- REMOVE - 26+17 30" BOXELDER 23.9'**  
**REMOVE - 26+26 12" BOXELDER 23.9'**  
**REMOVE - 26+27 24" TWIN BOXELDERS 20.1'**  
**REMOVE - 26+27 24" TWIN BOXELDERS 20.1'**  
**REMOVE - 26+43 15" BOXELDER 23.4'**  
**REMOVE - 26+43 15" BOXELDER 20.3'**  
**REMOVE - 26+55 12" TWIN DEAD 21.0'**  
**REMOVE - 26+72 12" BOXELDER 22.3'**
- REMOVE - 26+92 26" BOXELDER 41.9'**  
**REMOVE - 27+09 14" BOXELDER 22.5'**  
**REMOVE - 27+10 10" BOXELDER 21.4'**  
**REMOVE - 27+24 26" BOXELDER 41.9'**
- REMOVE - 27+53 12" TWIN BOXELDERS 22.9'**  
**REMOVE - 27+53 12" TWIN BOXELDERS 22.9'**  
**REMOVE - 27+61 8" BOXELDER 23.1'**  
**REMOVE - 27+66 12" BOXELDER 22.6'**  
**REMOVE - 27+71 14" BOXELDER 25.5'**  
**REMOVE - 27+84 8" APPLE 25.6'**
- REMOVE - 27+98 10" BOXELDER 29.0'**  
**REMOVE - 28+01 10" BOXELDER 28.2'**  
**REMOVE - 28+08 8" BOXELDER 33.5'**  
**REMOVE - 28+11 CHEVRON SIGN 20.2'**  
**REMOVE - 28+12 15" STUMP 25.6'**  
**REMOVE - 28+12 15" STUMP 25.6'**
- REMOVE - 28+44 22" TWIN MAPLES 53.7'**
- REMOVE - 28+61 16" TWIN ELMS 67.3'**  
**REMOVE - 28+61 12" MAPLE 59.7'**  
**REMOVE - 28+69 6" APPLE 53.3'**  
**REMOVE - 28+71 CHEVRON SIGN 23.9'**  
**REMOVE - 28+73 14" CHERRY 53.1'**  
**REMOVE - 28+76 8" ELM 39.6'**  
**REMOVE - 28+78 10" CHERRY 57.6'**  
**REMOVE - 28+78 10" CHERRY 52.1'**  
**REMOVE - 28+88 12" ELM 46.5'**  
**REMOVE - 28+90 16" CHERRY 46.1'**  
**REMOVE - 28+91 12" CHERRY 47.5'**  
**REMOVE - 28+18 22" ELM 50.0'**  
**REMOVE - 28+20 6" MAPLE 44.2'**  
**REMOVE - 29+21 16" MAPLE 56.2'**  
**REMOVE - 29+38 24" MAPLE 45.0'**  
**REMOVE - 29+54 CHEVRON SIGN 16.2'**
- REMOVE - 29+65 24" STUMP 29.7'**  
**REMOVE - 29+65 24" STUMP 29.7'**  
**REMOVE - 29+67 8" ELM 30.8'**  
**REMOVE - 29+83 24" STUMP 34.9'**  
**REMOVE - 29+94 10" STUMP 35.0'**
- REMOVE - 29+01 8" ELM 23.1'**  
**REMOVE - 29+05 12" ELM 21.9'**  
**REMOVE - 29+08 12" ELM 20.6'**
- REMOVE - 29+44 16" ELM 26.4'**  
**REMOVE - 29+44 16" ELM 26.4'**  
**REMOVE - 29+60 FENCE 51.4'**
- 27+45 30" CATALPA 37.9'**  
**27+47 24" TWIN MAPLES 51.2'**

**SOIL BORINGS**

SB #14  
0-02' ASPHALT  
02'-07" BROWN FINE SAND, A LITTLE FINE TO COARSE GRAVEL  
07'-20" DARK BROWN FINE SAND, TR FINE GRAVEL AND CLAY  
20'-50" BROWN FINE SAND  
50" END OF BORING

SB #15  
0-07" DARK BROWN FINE SAND, A LITTLE FINE TO COARSE GRAVEL, TC CLAY  
07'-20" DARK BROWN FINE SAND, TR CLAY  
20'-50" BROWN FINE SAND  
50" END OF BORING





The Surveyor's / Engineer's liability for any and all claims, including those arising out of the Surveyor's / Engineer's professional services, in no event shall be deemed limited to an amount greater than the amount of the fee for the service rendered.

**ALLEGAN COUNTY ROAD COMMISSION**  
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1308 LINCOLN RD  
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Plans are preliminary & incomplete until ISSUED FOR CONSTRUCTION.

Project Manager: LYNNELLE E. BERKENPAS, PE

Drawn by: RACHAEL M. NAGELKIRK, EIT

Checked by: \_\_\_\_\_ Date: \_\_\_\_\_

Civil: \_\_\_\_\_

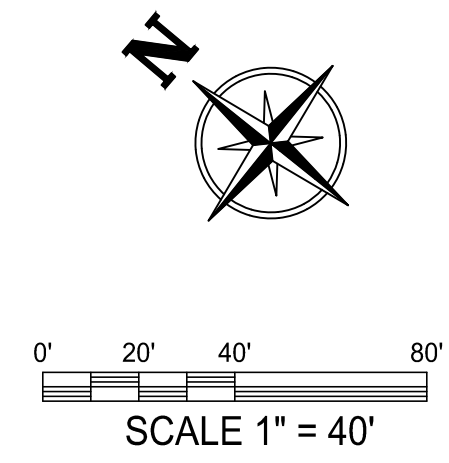
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L. A.

HEI Project Number: 19-11-011

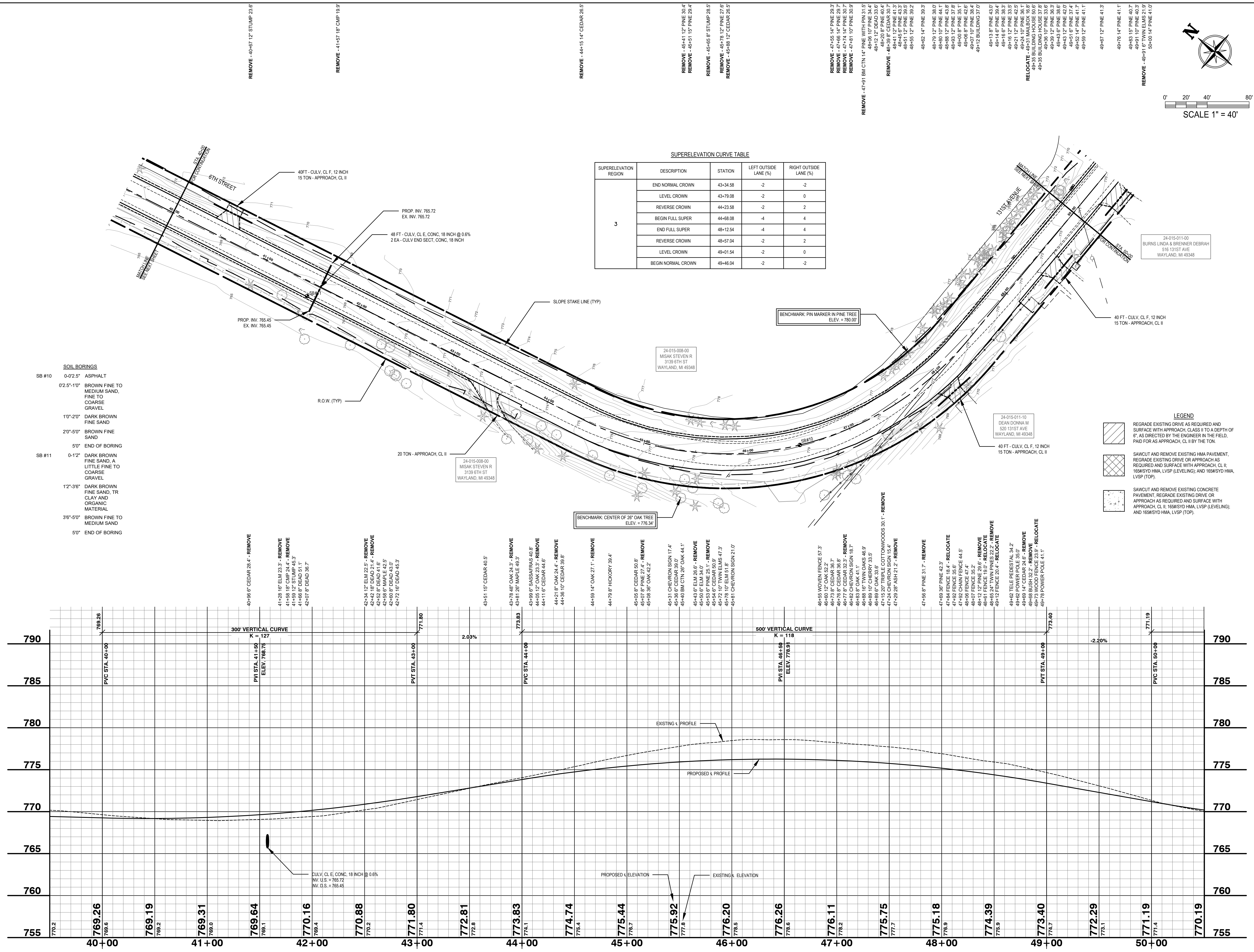
Sheet Title: PLAN & PROFILE  
STA. 40+00 TO STA. 50+00

Sheet No.: 6



**SUPERELEVATION CURVE TABLE**

SUPERELEVATION REGION	DESCRIPTION	STATION	LEFT OUTSIDE LANE (%)	RIGHT OUTSIDE LANE (%)
3	END NORMAL CROWN	43+34.58	-2	-2
	LEVEL CROWN	43+79.08	-2	0
	REVERSE CROWN	44+23.58	-2	2
	BEGIN FULL SUPER	44+68.08	-4	4
	END FULL SUPER	48+12.54	-4	4
	REVERSE CROWN	48+57.04	-2	2
	LEVEL CROWN	49+01.54	-2	0
	BEGIN NORMAL CROWN	49+46.04	-2	-2



**SOIL BORINGS**

SB #10	0-0.25' ASPHALT
	0.25'-1.0' BROWN FINE TO MEDIUM SAND, FINE TO COARSE GRAVEL
	1.0'-2.0' DARK BROWN FINE SAND
	2.0'-5.0' BROWN FINE SAND
	5.0' END OF BORING
SB #11	0-1.2' DARK BROWN FINE SAND, A LITTLE FINE TO COARSE GRAVEL
	1.2'-3.6' DARK BROWN FINE SAND, TR CLAY AND ORGANIC MATERIAL
	3.6'-5.0' BROWN FINE TO MEDIUM SAND
	5.0' END OF BORING

REMOVE - 40+67 12" STUMP 23.6'

REMOVE - 41+57 18" CAMP 19.9'

REMOVE - 44+15 14" CEDAR 26.5'

REMOVE - 45+41 12" PINE 30.4'

REMOVE - 45+51 10" PINE 29.4'

REMOVE - 45+05 8" STUMP 28.5'

REMOVE - 45+78 10" PINE 37.6'

REMOVE - 45+88 12" CEDAR 26.5'

REMOVE - 47+55 14" PINE 29.3'

REMOVE - 47+66 14" PINE 29.7'

REMOVE - 47+74 14" PINE 30.7'

REMOVE - 47+81 10" PINE 30.9'

REMOVE - 47+91 8" BMTN 14" PINE WITH PIN 31.5'

48+06 10" PINE 34.4'

48+12 12" DEAD 33.6'

48+20 6" PINE 40.4'

48+25 6" PINE 39.2'

48+45 6" PINE 43.3'

48+52 6" PINE 41.3'

48+61 12" PINE 41.3'

48+62 14" PINE 39.3'

48+79 12" PINE 38.0'

48+80 10" PINE 44.1'

48+88 12" PINE 43.8'

48+90 6" PINE 35.9'

48+93 6" PINE 35.9'

49+06 6" PINE 42.6'

49+07 10" PINE 38.4'

49+12 BUILDING 37.0'

49+13 6" PINE 43.0'

49+14 6" PINE 39.4'

49+16 6" PINE 38.3'

49+16 12" PINE 33.5'

49+17 6" PINE 38.3'

49+24 10" PINE 36.1'

49+25 6" PINE 36.1'

RELOCATE - 49+31 MALEX 16.8'

49+35 BUILDING HOUSE 50.6'

49+35 6" PINE 33.6'

49+36 10" PINE 36.3'

49+36 12" PINE 36.3'

49+43 6" PINE 36.6'

49+43 12" PINE 32.0'

49+52 14" PINE 41.7'

49+58 12" PINE 41.1'

49+67 12" PINE 41.3'

49+76 14" PINE 41.1'

49+83 15" PINE 40.7'

49+91 10" PINE 40.3'

49+91 12" PINE 40.3'

50+00 14" PINE 41.0'

24-015-011-00  
BURNS LINDA & BRENNER DESRAH  
516 131ST AVE  
WAYLAND, MI 49348

24-015-011-10  
DEAN DONNA M  
520 131ST AVE  
WAYLAND, MI 49348

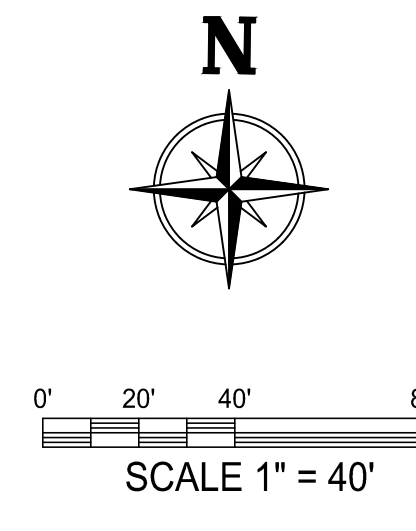
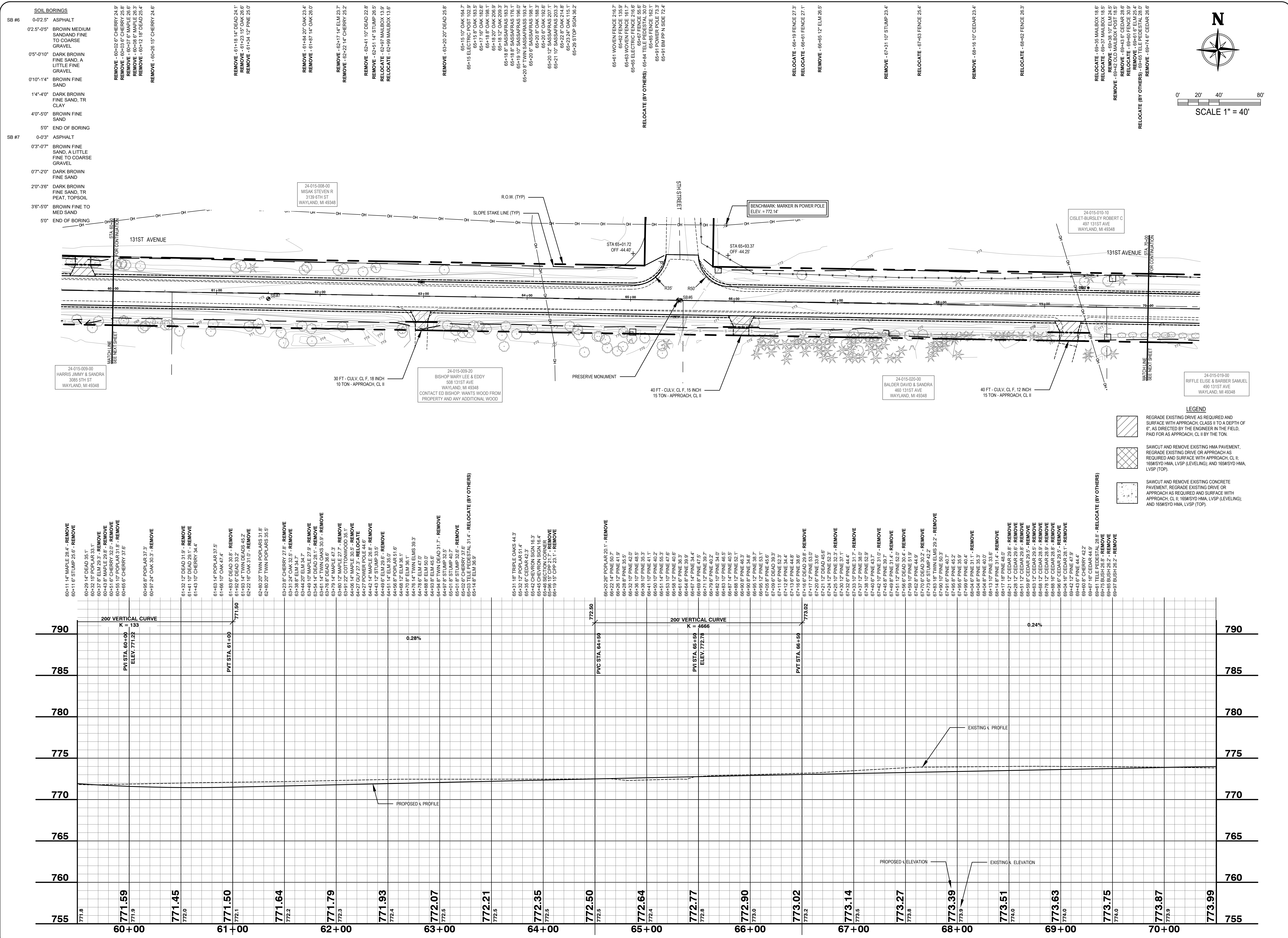
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MISAK STEVEN R  
3139 6TH ST  
WAYLAND, MI 49348

**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, LVSP (LEVELING), AND 165#SYD HMA, LVSP (TOP).
- SAW CUT AND REMOVE EXISTING CONCRETE PAVEMENT, REGRADE EXISTING DRIVE OR APPROACH AS REQUIRED AND SURFACE WITH APPROACH, CL II, 165#SYD HMA, LVSP (LEVELING), AND 165#SYD HMA, LVSP (TOP).







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ENGINEERING

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www.hollandengineering.com  
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**ALLEGAN COUNTY ROAD COMMISSION**

ATTN: MR. JASON EDWARDS  
1308 LINCOLN RD  
ALLEGAN, MI 49010

**6TH ST & 131ST AVE RECONSTRUCTION**

GREGORVILLE RD TO 4TH ST  
WAYLAND TWP., ALLEGAN CO, MI 49348

**Issued for:**

Date	Description	No.
03/15/2020	50% REVIEW SET	A
04/02/2020	ISSUED FOR BIDDING	B

Plans are preliminary & incomplete until ISSUED FOR CONSTRUCTION

**Project Manager**  
LYNNELLE E. BERKENPAS, PE

**Drawn by**  
RACHAEL M. NAGELKIRK, EIT

**Checked by** \_\_\_\_\_ **Date** \_\_\_\_\_

**Civil** \_\_\_\_\_ **Date** \_\_\_\_\_

**Struc.** \_\_\_\_\_ **Date** \_\_\_\_\_

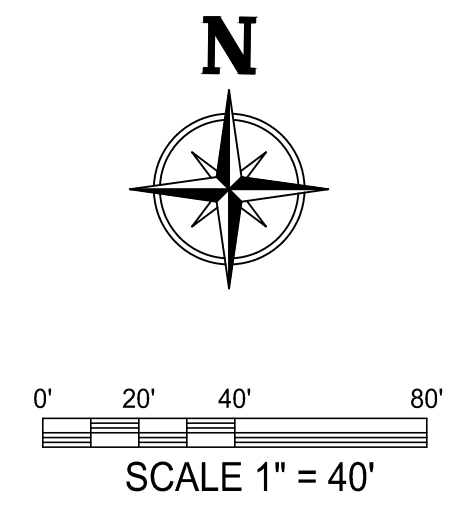
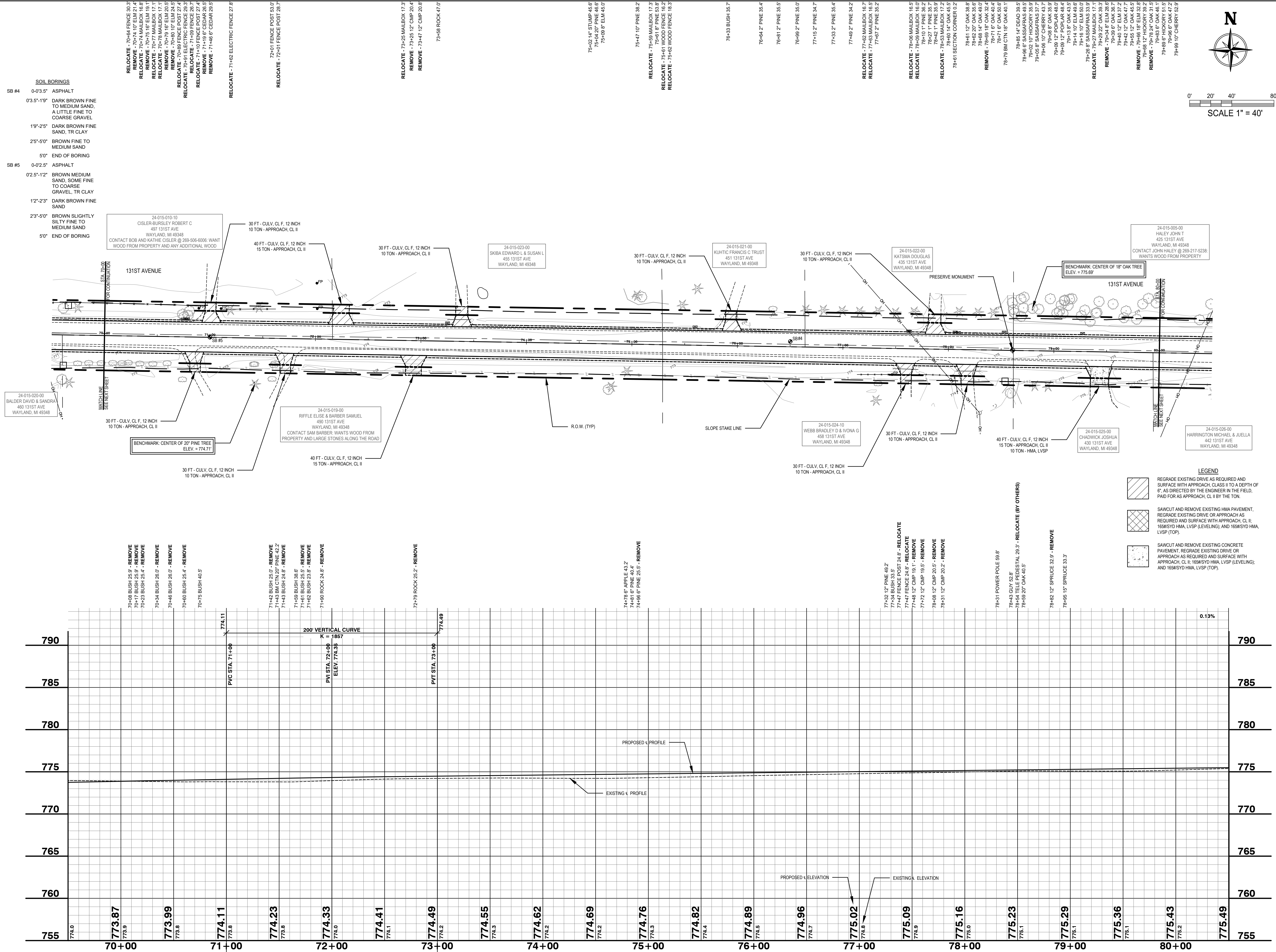
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**HEI Project Number**  
19-11-011

**Sheet Title**  
PLAN & PROFILE  
STA. 60+00 TO STA. 70+00

**Sheet No.**  
8





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The Surveyor's / Engineer's liability for any and all claims, including those arising out of the performance of the Surveyor's / Engineer's professional services, including, but not limited to, misrepresentation or negligence, shall be determined by the laws of the State of Michigan.

**ALLEGAN COUNTY ROAD COMMISSION**

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1308 LINCOLN RD  
ALLEGAN, MI 49010

**6TH ST & 131ST AVE RECONSTRUCTION**

GREGORVILLE RD TO 4TH ST  
WAYLAND TWP., ALLEGAN CO, MI 49348

Issued for:

No.	Description
A	90% REVIEW SET
B	ISSUED FOR BIDDING

Date: 03/13/2020  
04/02/2020

Project Manager: LYNNELLE E. BERKENPAS, PE

Drawn by: RACHAEL M. NAGELKIRK, EIT

Checked by: . Date: .

Civil: .

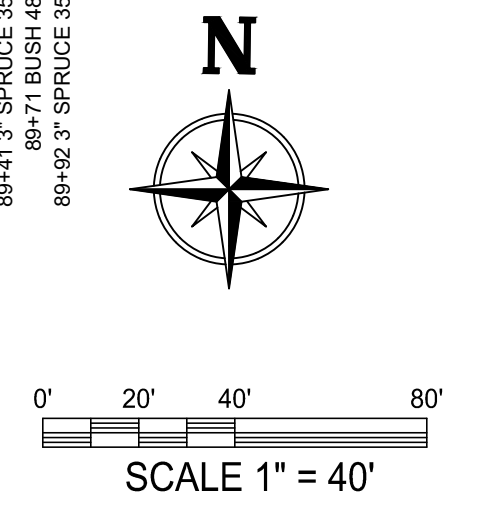
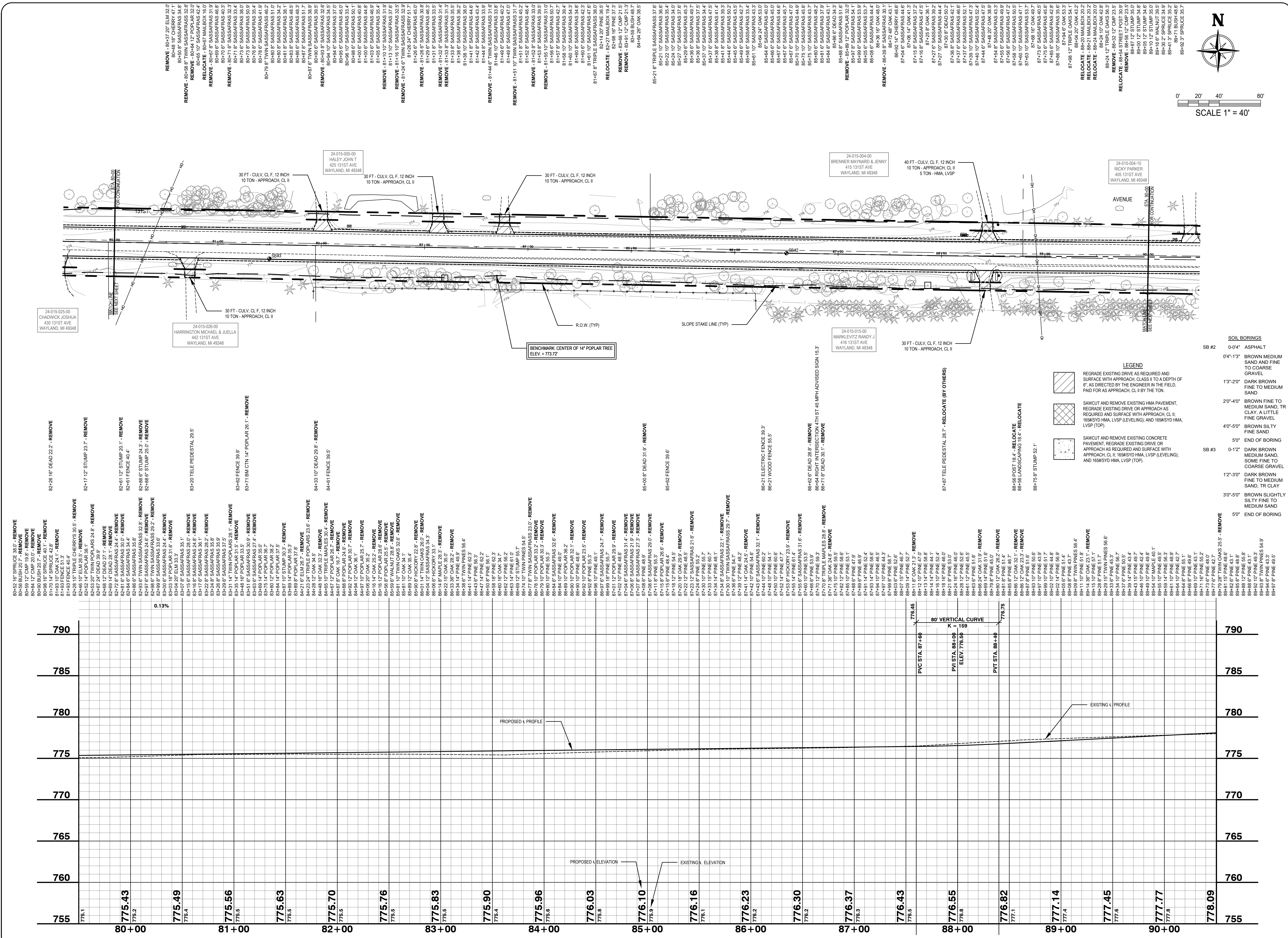
Struc.: .

L. A.

HEI Project Number: 19-11-011

Sheet Title: PLAN & PROFILE STA. 70+00 TO STA. 80+00

Sheet No.: 9



**SOIL BORINGS**

SB #2	SOIL BORINGS	
0-0'4"	ASPHALT	
0'4"-1'3"	BROWN MEDIUM SAND AND FINE TO COARSE GRAVEL	
1'3"-2'0"	DARK BROWN FINE TO MEDIUM SAND	
2'0"-4'0"	BROWN FINE TO MEDIUM SAND, TR CLAY, A LITTLE FINE GRAVEL	
4'0"-5'0"	BROWN SILTY FINE SAND	
5'0"	END OF BORING	
SB #3	0-1'2"	DARK BROWN MEDIUM SAND, SOME FINE TO COARSE GRAVEL
1'2"-3'0"	DARK BROWN FINE TO MEDIUM SAND, TR CLAY	
3'0"-5'0"	BROWN SLIGHTLY SILTY FINE TO MEDIUM SAND	
5'0"	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; 1658(SYD) HMA, LVSP (LEVELING); AND 1658(SYD) HMA, LVSP (TOP).
  - SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT, REGRADE EXISTING DRIVE OR APPROACH AS REQUIRED AND SURFACE WITH APPROACH, CL II; 1658(SYD) HMA, LVSP (LEVELING); AND 1658(SYD) HMA, LVSP (TOP).

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Holland, Michigan 49423-3766  
www.hollandengineering.com  
T 616-392-5938 F 616-392-2116

The Surety's / Engineer's liability for any and all claims, including those arising out of the Surety's / Engineer's professional services, including, but not limited to, misrepresentation shall be deemed limited to an amount not greater than the service fee.

**ALLEGAN COUNTY ROAD COMMISSION**

ATTN: MR. JASON EDWARDS  
1308 LINCOLN RD  
ALLEGAN, MI 49010

**6TH ST & 131ST AVE RECONSTRUCTION**

GREGORVILLE RD TO 4TH ST  
WAYLAND TWP., ALLEGAN CO, MI 49348

Date	Description	No.
03/12/2020	90% REVIEW SET	A
04/02/2020	ISSUED FOR BIDDING	B

Plans are preliminary & incomplete until ISSUED FOR CONSTRUCTION

Project Manager: **LYNNELLE E. BERKENPAS, PE**

Drawn by: **RACHAEL M. NAGELKIRK, EIT**

Checked by: \_\_\_\_\_ Date: \_\_\_\_\_

Civil: \_\_\_\_\_

Struc.: \_\_\_\_\_

L. A.

HEI Project Number: **19-11-011**

Sheet Title: **PLAN & PROFILE**

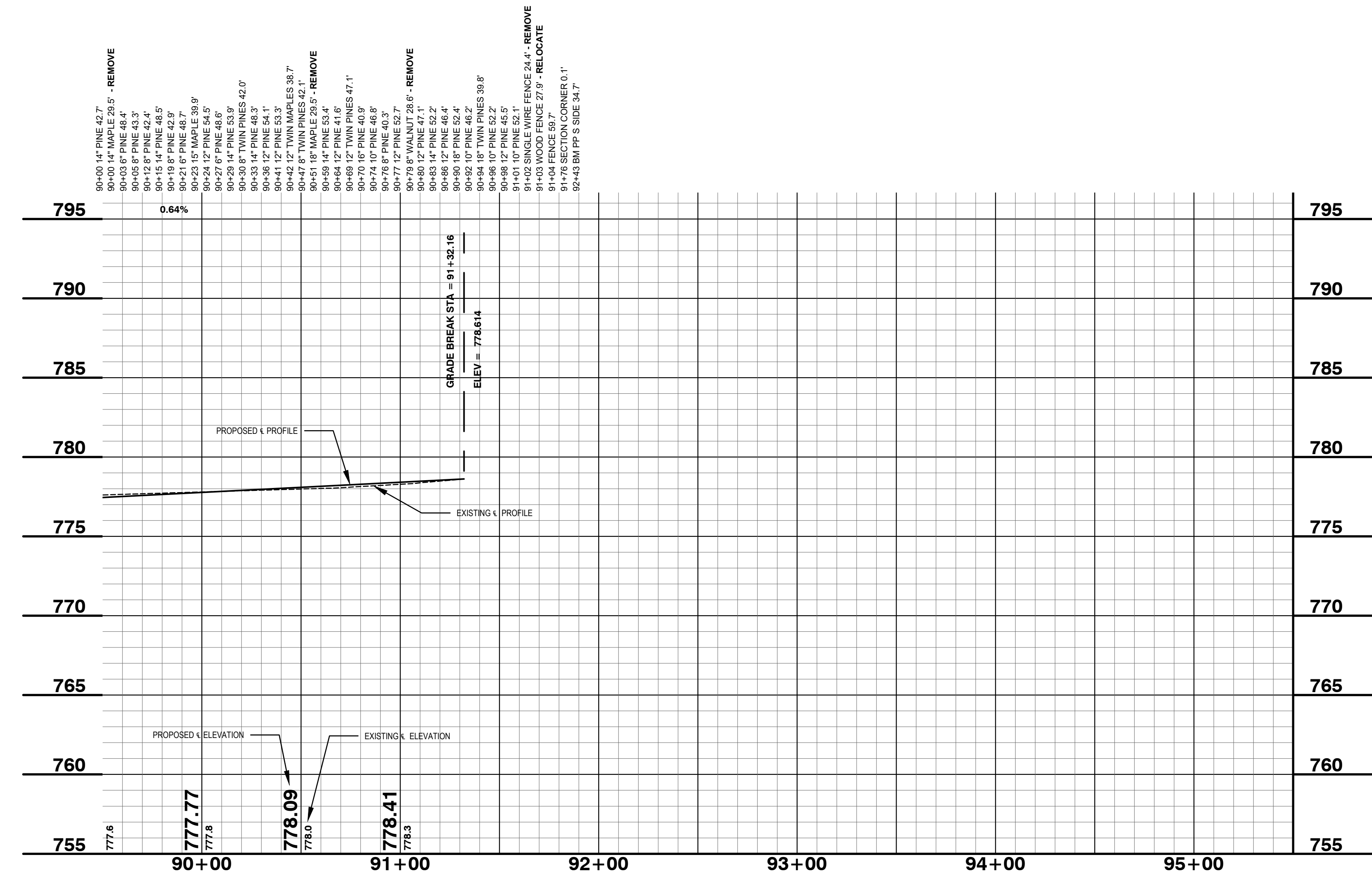
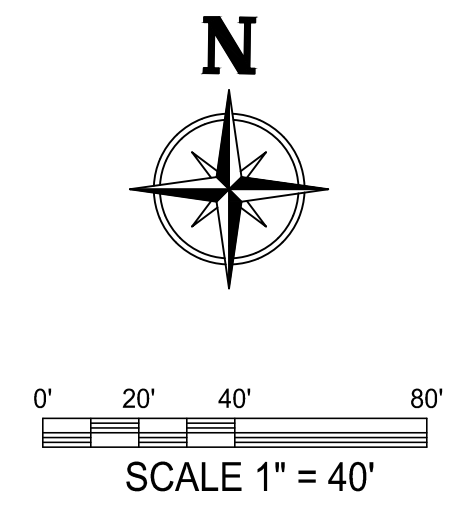
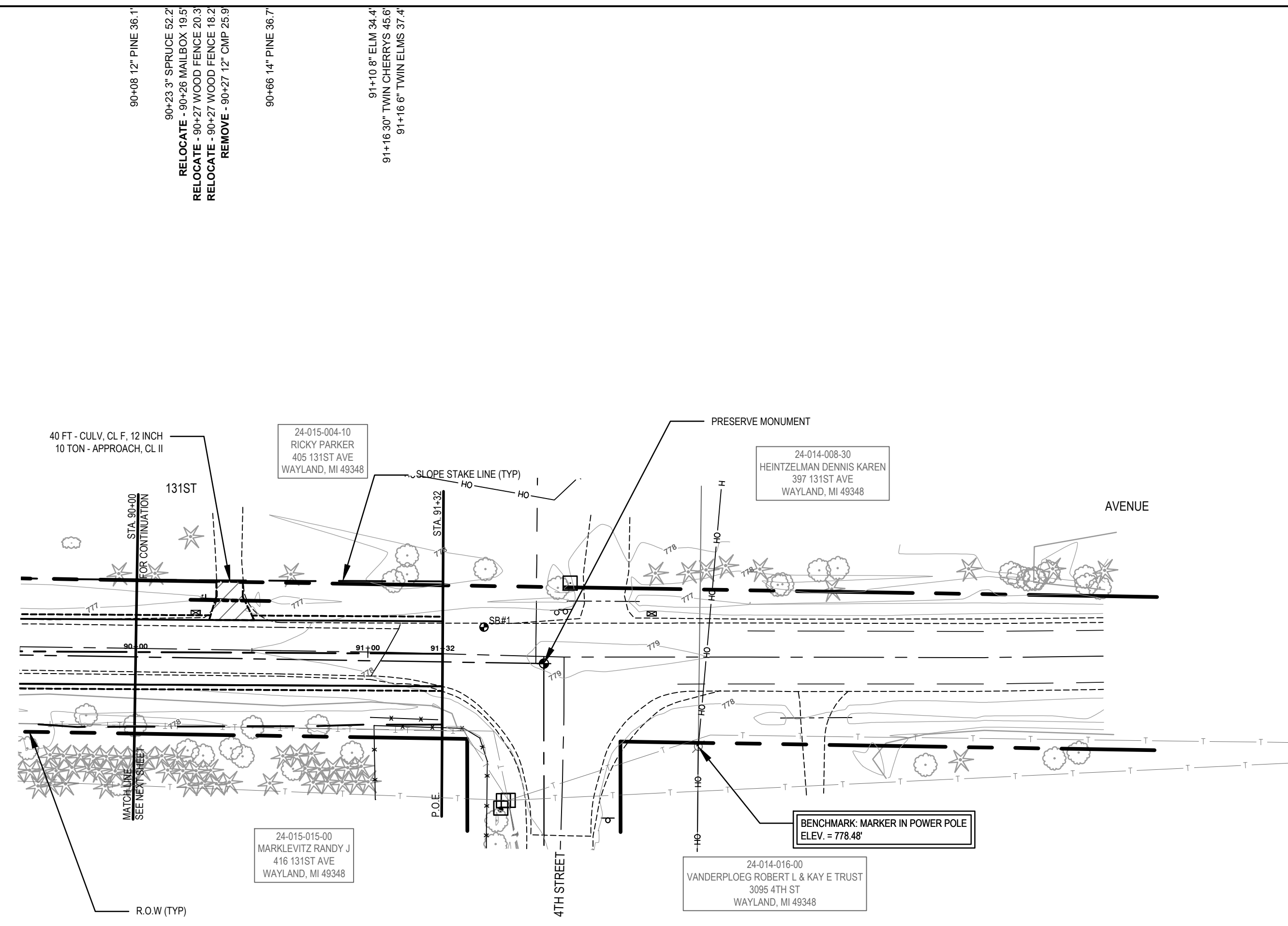
STA. 80+00 TO STA. 90+00

Sheet No.: **10**



**SOIL BORINGS**

SB #1	0'-10"	DARK BROWN MEDIUM SAND, SOME FINE TO COARSE GRAVEL
	10'-16"	DARK BROWN FINE SAND, TR FINE GRAVEL AND CLAY
	16'-20"	DARK BROWN FINE SAND
	20'-36"	BROWN SLIGHTLY SILTY FINE TO MEDIUM SAND
	36'-50"	DARK BROWN FINE SAND
	50"	END OF BORING



- LEGEND**
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  - SAWCUT AND REMOVE EXISTING HMA PAVEMENT, REGRADE EXISTING DRIVE OR APPROACH AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#SYD HMA, LVSP (LEVELING); AND 165#SYD HMA, LVSP (TOP).
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---

**ALLEGAN COUNTY ROAD COMMISSION**

ATTN: MR. JASON EDWARDS  
1308 LINCOLN RD  
ALLEGAN, MI 49010

**6TH ST & 131ST AVE RECONSTRUCTION**

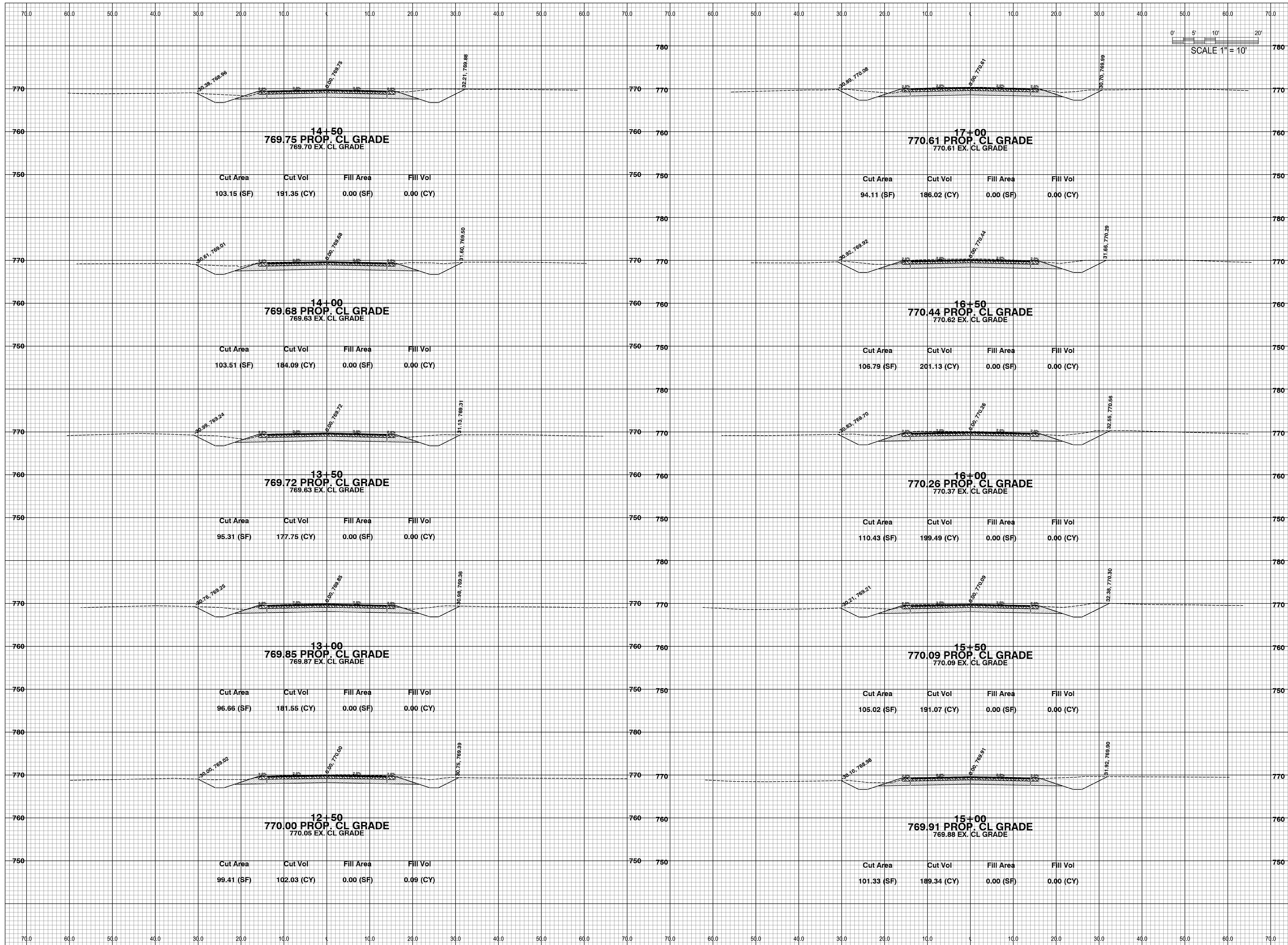
GREGORVILLE RD TO 4TH ST  
WAYLAND TWP., ALLEGAN CO, MI 49348

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Description	No.
03/13/2020 90% REVIEW SET	A
04/09/2020 ISSUED FOR BIDDING	B
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03/13/2020	
04/09/2020	
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Project Manager	
LYNNELLE E. BERKENPAS, PE	
Drawn by	
RACHAEL M. NAGELKIRK, EIT	
Checked by	Date
Survey	
Civil	
Struc.	
L. A.	
HEI Project Number	
19-11-011	
Sheet Title	
PLAN & PROFILE STA. 90+00 TO P.O.E	
Sheet No.	
11	



SCALE 1" = 10'

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**ALLEGAN COUNTY ROAD COMMISSION**

ATTN: MR. JASON EDWARDS  
1308 LINCOLN RD  
ALLEGAN, MI 49010

**6TH ST & 131ST AVE RECONSTRUCTION**

GREGORVILLE RD TO 4TH ST  
WAYLAND TWP., ALLEGAN CO, MI 49348

Issued for:

No.	Description
A	90% REVIEW SET
B	ISSUED FOR BIDDING

Date: 03/12/2020

Project Manager: LYNNELLE E. BERKENPAS, PE

Drawn by: RACHAEL M. NAGELKIRK, EIT

Checked by: \_\_\_\_\_ Date: \_\_\_\_\_

Civil: \_\_\_\_\_

Struc: \_\_\_\_\_

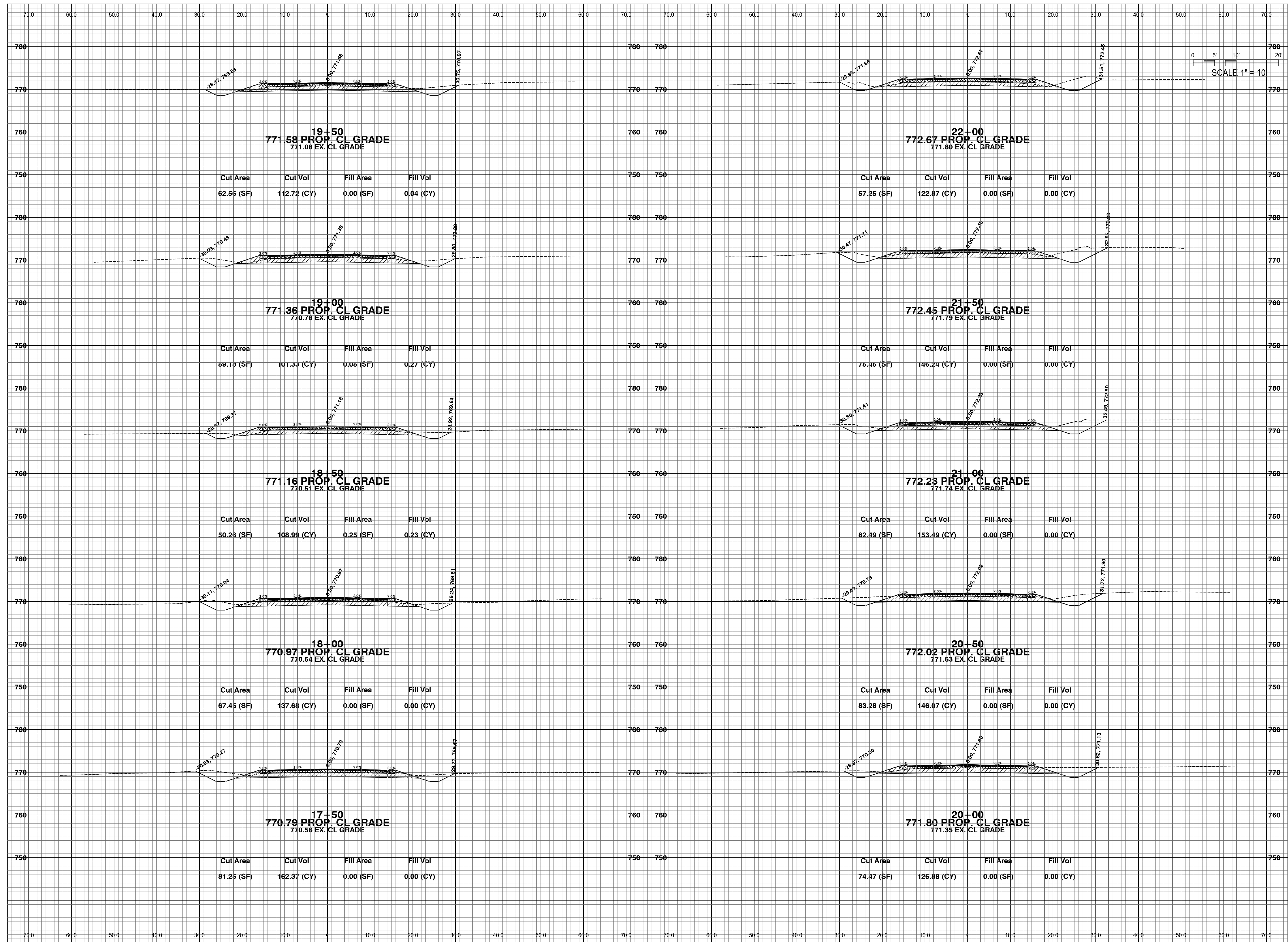
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HEI Project Number: 19-11-011

Sheet Title: CROSS SECTIONS P.O.B. TO STA. 17+00

Sheet No. 12





The Surveyor's liability for any and all claims, including but not limited to those arising out of the performance of the Surveyor's professional services, shall be deemed limited to an amount no greater than the service fee.

**ALLEGAN COUNTY ROAD COMMISSION**  
 ATTN: MR. JASON EDWARDS  
 1308 LINCOLN RD  
 ALLEGAN, MI 49010

**6TH ST & 131ST AVE RECONSTRUCTION**  
 GREGORVILLE RD TO 4TH ST  
 WAYLAND TWP., ALLEGAN CO, MI 49348

Date	Description	Issued for:	
		A	B
03/12/2020	90% REVIEW SET		
04/02/2020	ISSUED FOR BIDDING		

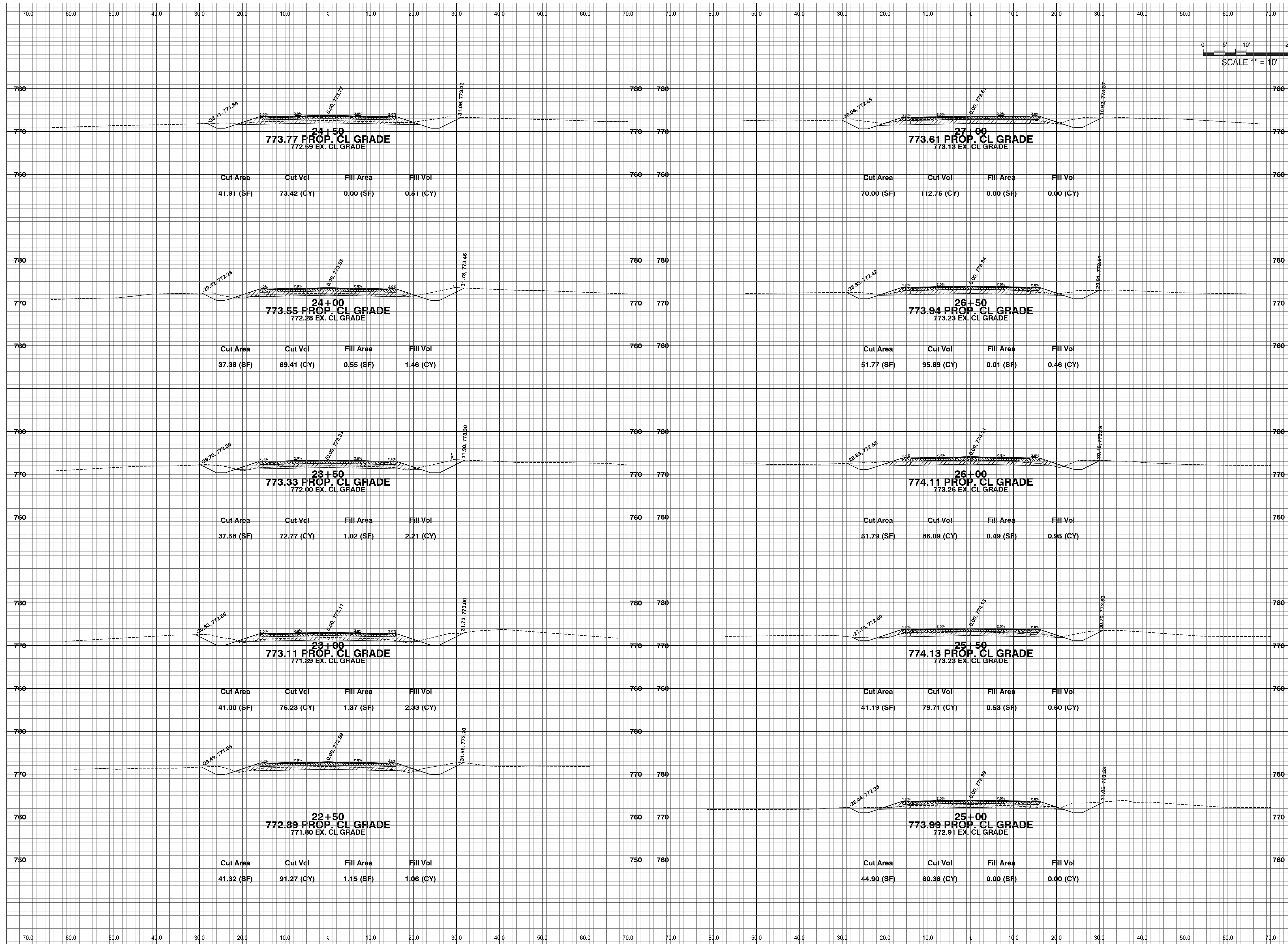
Project Manager  
 LYNNELLE E. BERKENPAS, PE

Drawn by  
 RACHAEL M. NAGELKIRK, EIT

Checked by  
 Survey . . . . .  
 Civil . . . . .  
 Struc. . . . .

L. A. . . . .  
 HEI Project Number  
 19-11-011

Sheet Title  
**CROSS SECTIONS**  
 STA. 17+50 TO STA. 22+00



The Surveyor's / Engineer's liability for any and all claims, including those arising out of the Surveyor's / Engineer's professional services, shall be limited to the amount of the fee for the service provided.

**ALLEGAN COUNTY ROAD COMMISSION**

ATTN: MR. JASON EDWARDS  
1308 LINCOLN RD  
ALLEGAN, MI 49010

**6TH ST & 131ST AVE RECONSTRUCTION**

GREGORVILLE RD TO 4TH ST  
WAYLAND TWP., ALLEGAN CO, MI 49348

No.	Description	Date	
		A	B
1	90% REVIEW SET	03/13/2020	
2	ISSUED FOR BIDDING	04/09/2020	

Plans are preliminary & incomplete until ISSUED FOR CONSTRUCTION.

Project Manager  
LYNNELLE E. BERKENPAS, PE

Drawn by  
RACHAEL M. NAGELKIRK, EIT

Checked by  
Survey . . . . . Date . . . . .

Civil . . . . .

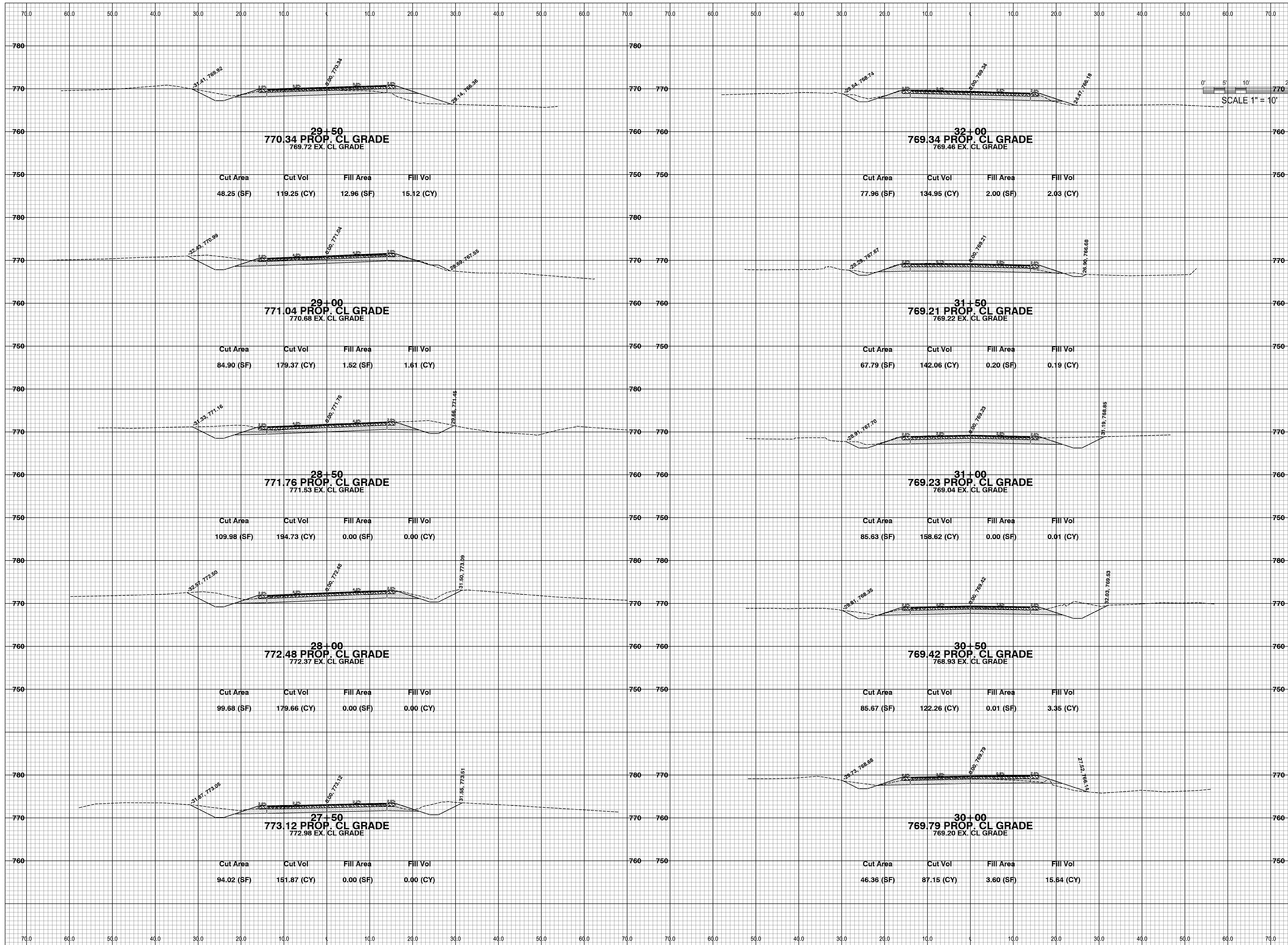
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L. A. . . . .

HEI Project Number  
19-11-011

Sheet Title  
**CROSS SECTIONS**  
STA. 22+50 TO STA. 27+00





The Surveyor's / Engineer's liability for any and all claims, including those arising out of the Surveyor's / Engineer's professional services, including those arising out of the Surveyor's / Engineer's misrepresentations shall be deemed limited to an amount not greater than the service fee.

**ALLEGAN COUNTY ROAD COMMISSION**

ATTN: MR. JASON EDWARDS  
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ALLEGAN, MI 49010

**6TH ST & 131ST AVE RECONSTRUCTION**

GREGORVILLE RD TO 4TH ST  
WAYLAND TWP., ALLEGAN CO, MI 49348

Issued for:

No.	Description
A	03/12/20 90% REVIEW SET
B	04/02/20 ISSUED FOR BIDDING

Date: 03/12/20

Project Manager: LYNNELLE E. BERKENPAS, PE

Drawn by: RACHAEL M. NAGELKIRK, EIT

Checked by: \_\_\_\_\_ Date: \_\_\_\_\_

Survey: \_\_\_\_\_

Civil: \_\_\_\_\_

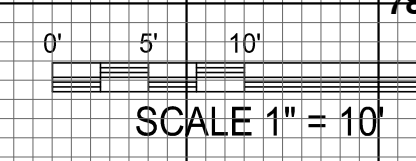
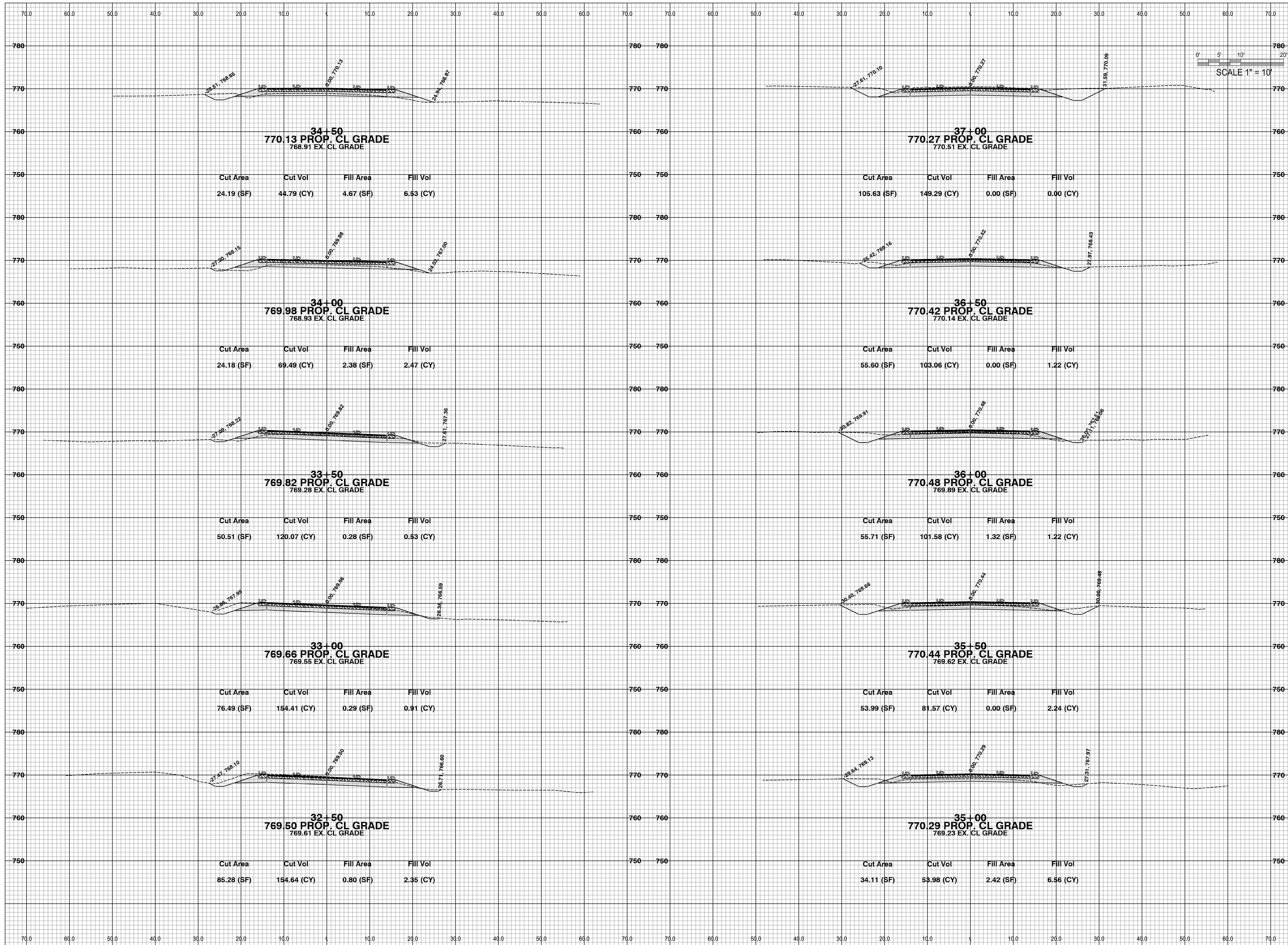
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HEI Project Number: 19-11-011

Sheet Title: CROSS SECTIONS STA. 27+50 TO STA. 32+00

Sheet No.: 15



The Surveyor's / Engineer's liability for any and all claims, including those arising out of the Surveyor's / Engineer's professional services, including those arising out of the Surveyor's / Engineer's misrepresentations shall be deemed limited to an amount not greater than the service fee.

**ALLEGAN COUNTY ROAD COMMISSION**

ATTN: MR. JASON EDWARDS  
1308 LINCOLN RD  
ALLEGAN, MI 49010

**6TH ST & 131ST AVE RECONSTRUCTION**

GREGORVILLE RD TO 4TH ST  
WAYLAND TWP., ALLEGAN CO, MI 49348

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No.	Description
A	03/13/2020 90% REVIEW SET
B	04/02/2020 ISSUED FOR BIDDING
Date	
Project Manager	
LYNNELLE E. BERKENPAS, PE	

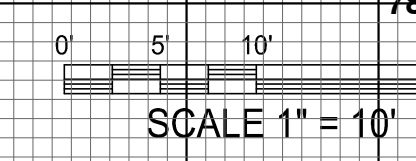
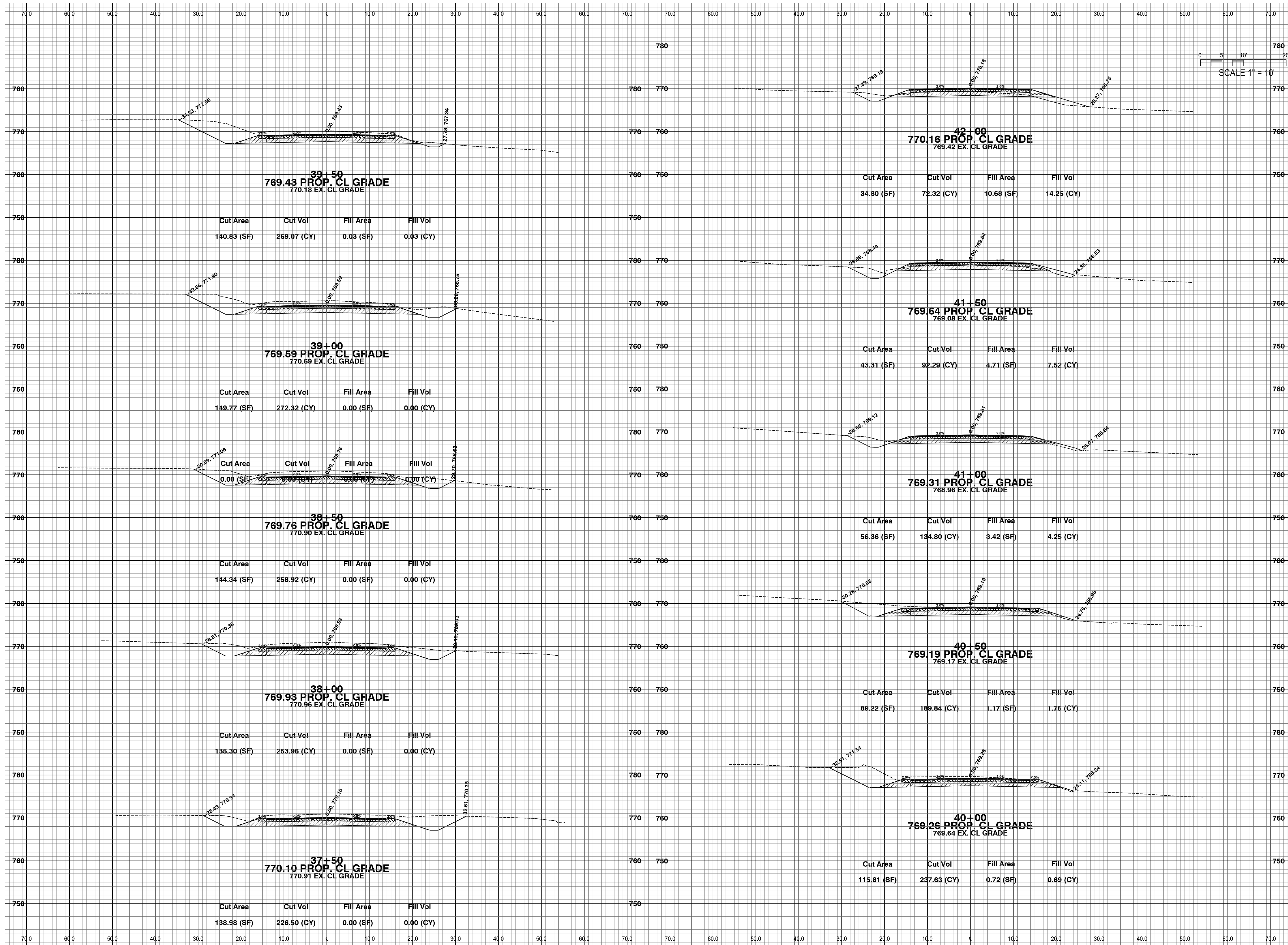
Drawn by	
RACHAEL M. NAGELKIRK, EIT	
Checked by	Date
Survey	
Civil	
Struc.	
L.A.	

HEI Project Number  
19-11-011

Sheet Title  
CROSS SECTIONS  
STA. 32+50 TO STA.  
37+00

Sheet No.





The Surveyor's liability for any and all claims, including those arising out of the Surveyor's Engineers' professional services, including, but not limited to, misrepresentations shall not be deemed limited to the amount of the fee for the service.

**ALLEGAN COUNTY ROAD COMMISSION**

ATTN: MR. JASON EDWARDS  
1308 LINCOLN RD  
ALLEGAN, MI 49010

**6TH ST & 131ST AVE RECONSTRUCTION**

GREGORVILLE RD TO 4TH ST  
WAYLAND TWP., ALLEGAN CO, MI 49348

Issued for:

No.	Description
A	100% REVIEW SET
B	ISSUED FOR BIDDING

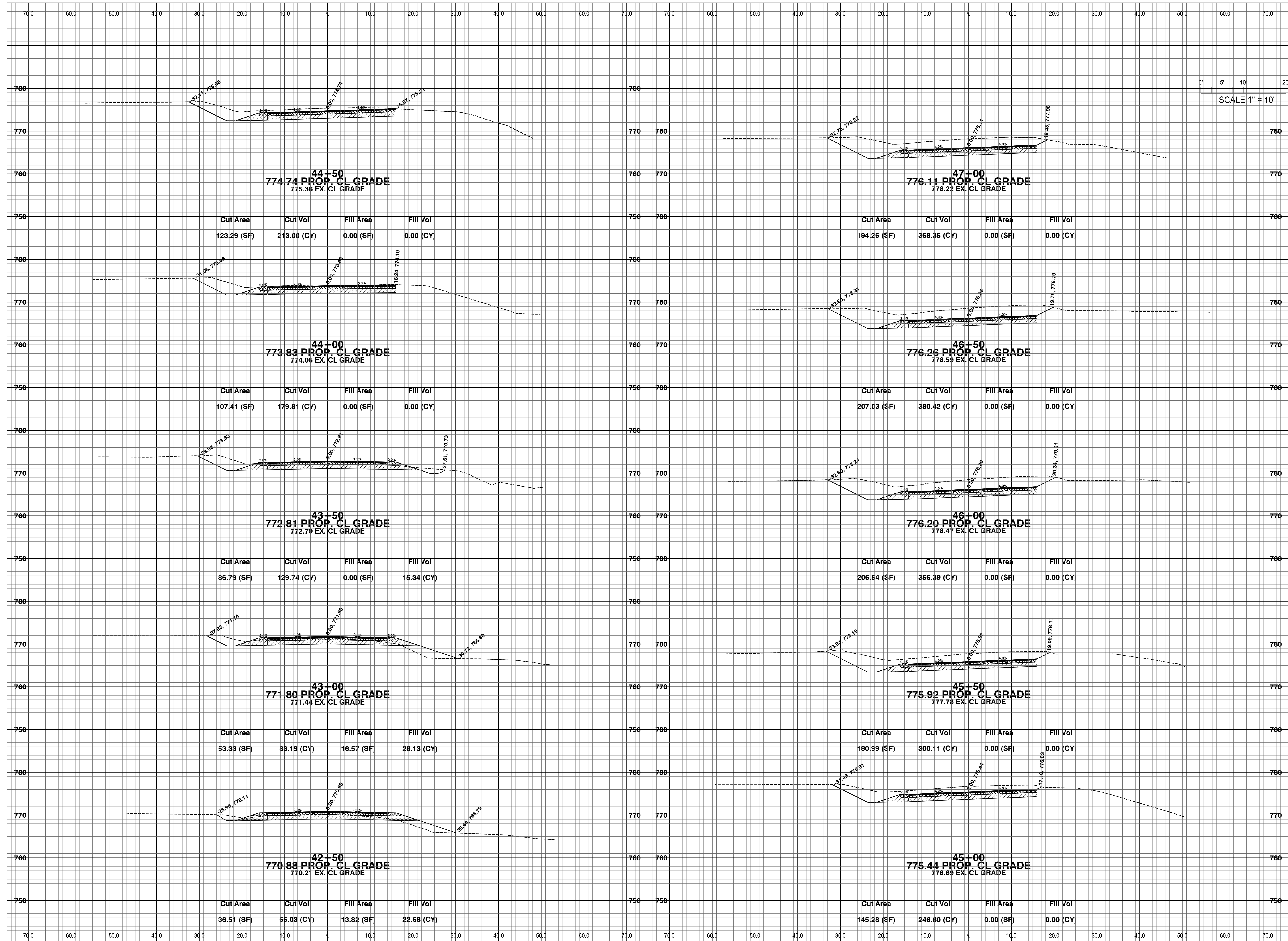
Date: 03/13/2020  
04/09/2020

Project Manager: LYNNELLE E. BERKENPAS, PE

Drawn by: RACHAEL M. NAGELKIRK, EIT  
Checked by: \_\_\_\_\_ Date: \_\_\_\_\_  
Survey: \_\_\_\_\_  
Civil: \_\_\_\_\_  
Struc.: \_\_\_\_\_  
L.A.: \_\_\_\_\_

HEI Project Number: 19-11-011

Sheet Title: CROSS SECTIONS  
STA. 37+50 TO STA. 42+00



SCALE 1" = 10'

The Surveyors' liability for any and all claims, including but not limited to those arising out of the negligence, gross negligence, or willful and wanton misconduct, shall not be deemed limited to an amount no greater than the service fee.

**ALLEGAN COUNTY**  
**ROAD COMMISSION**

ATTN: MR. JASON EDWARDS  
1308 LINCOLN RD  
ALLEGAN, MI 49010

**6TH ST & 131ST AVE**  
**RECONSTRUCTION**

GREGORVILLE RD TO 4TH ST  
WAYLAND TWP, ALLEGAN CO, MI 49348

Issued for:

No.	A	B
Description	80% REVIEW SET	ISSUED FOR BIDDING
Date	03/13/2020	04/09/2020

Plans are preliminary & incomplete until ISSUED FOR CONSTRUCTION

Project Manager  
LYNNELLE E. BERKENPAS, PE

Drawn by  
RACHAEL M. NAGELKIRK, EIT

Checked by  
Survey

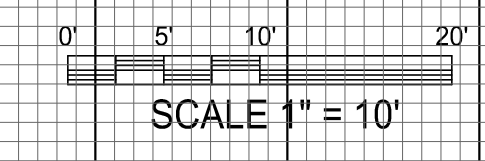
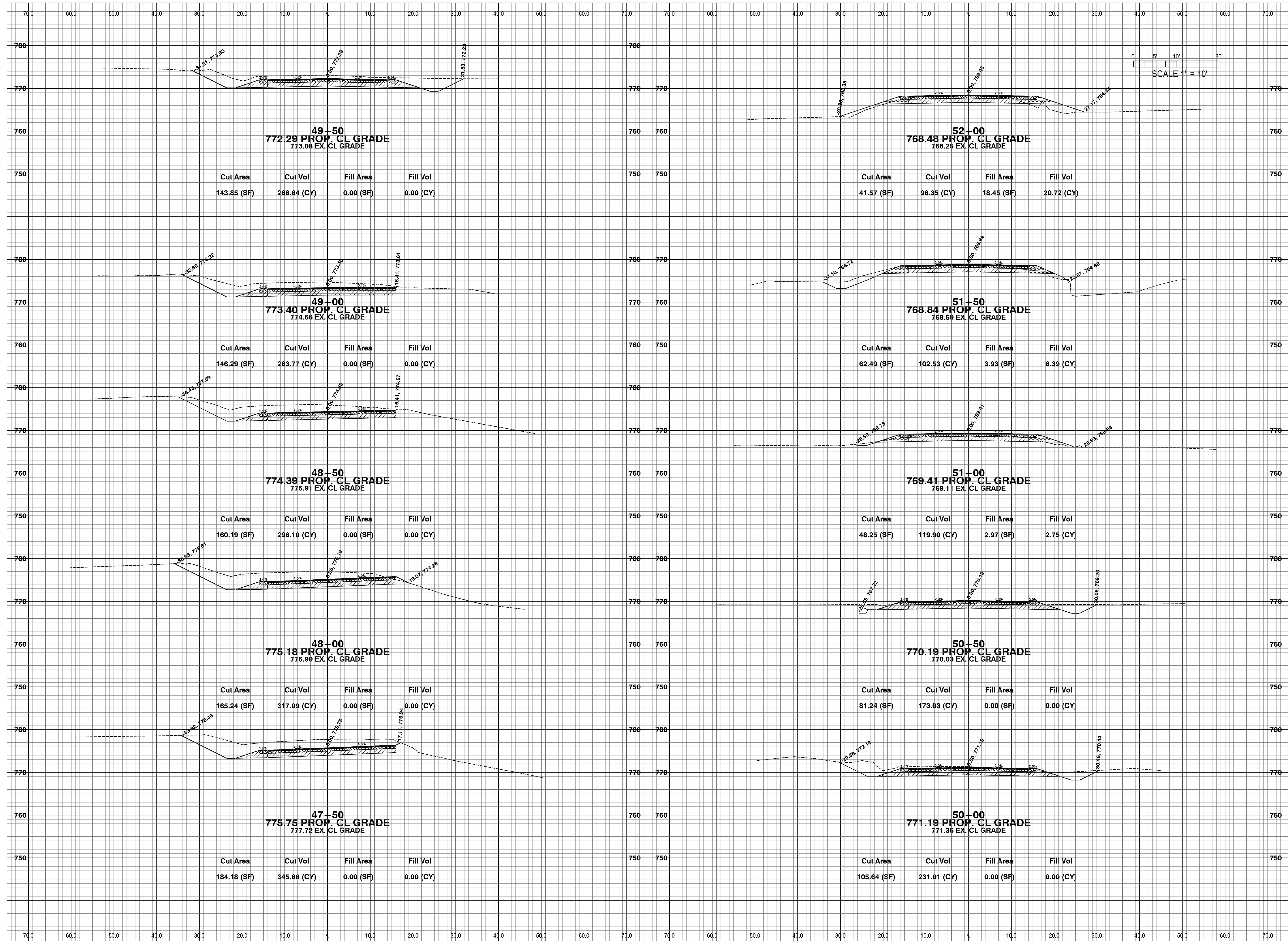
Civil

Struc.

L. A.

HEI Project Number  
19-11-011

Sheet Title  
**CROSS SECTIONS**  
**STA. 42+50 TO STA.**  
**47+00**



The Surveyors' fee for any and all claims, including but not limited to those arising out of the negligence, gross negligence, gross misconduct, warranties or omissions, shall not be deemed limited to an amount no greater than the service fee.

**ALLEGAN COUNTY ROAD COMMISSION**  
 ATTN: MR. JASON EDWARDS  
 1308 LINCOLN RD  
 ALLEGAN, MI 49010

**6TH ST & 131ST AVE RECONSTRUCTION**  
 GREGORVILLE RD TO 4TH ST  
 WAYLAND TWP, ALLEGAN CO, MI 49348

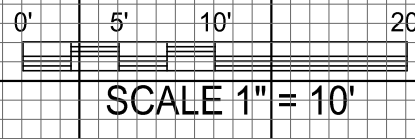
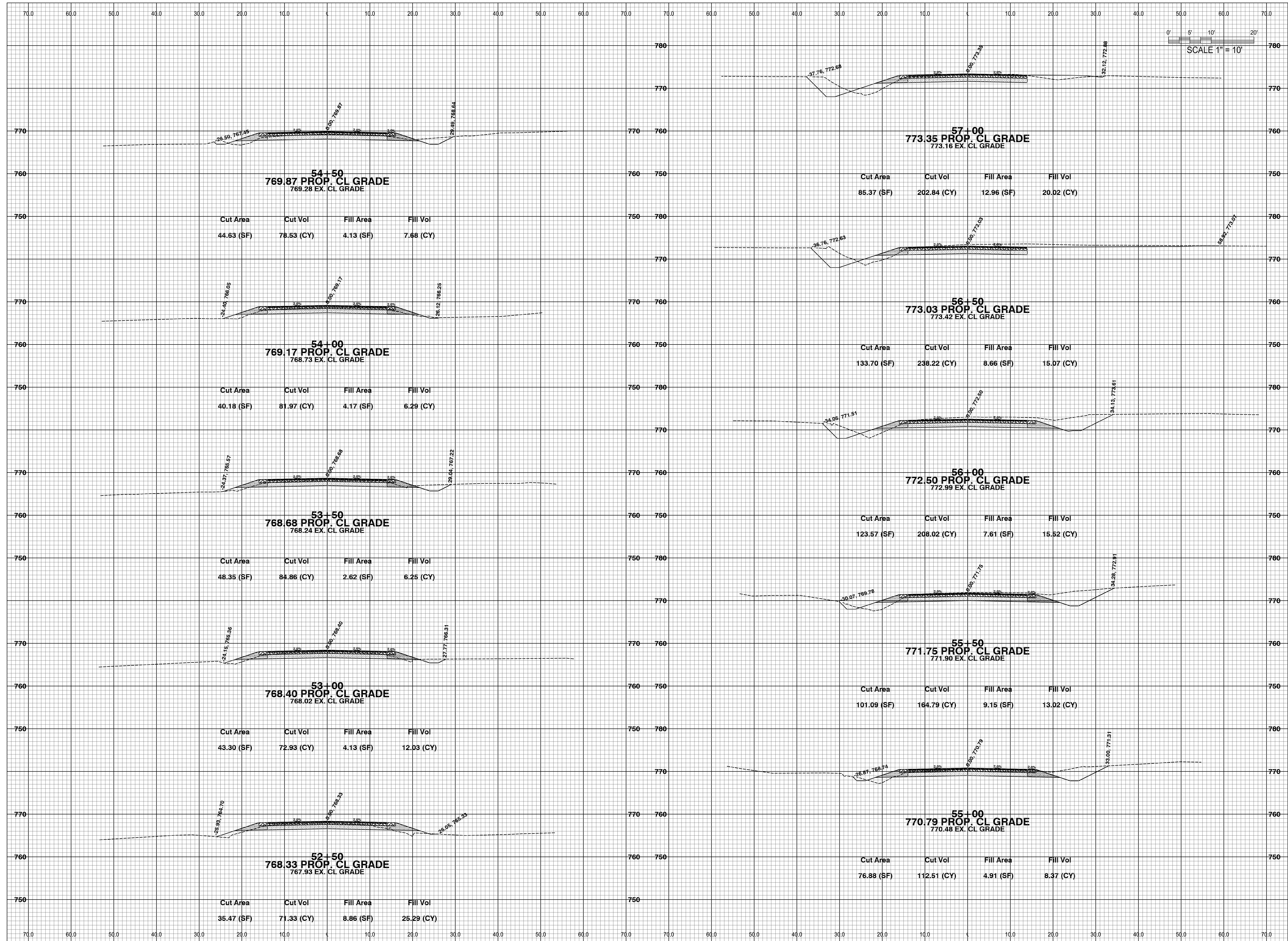
No.	A	Description
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Date	03/13/2020	80% REVIEW SET
Date	04/09/2020	ISSUED FOR BIDDING

Project Manager  
 LYNNELLE E. BERKENPAS, PE

Drawn by  
 RACHAEL M. NAGELKIRK, EIT  
 Checked by  
 Survey  
 Civil  
 Struc.  
 L. A.  
 HEI Project Number  
 19-11-011

Sheet Title  
**CROSS SECTIONS  
 STA. 47+50 TO STA.  
 52+00**





The Surveyors' liability for any and all claims, including but not limited to those arising out of the performance of their professional services, negligence, gross misconduct, warranties or amount no greater than the service fee.

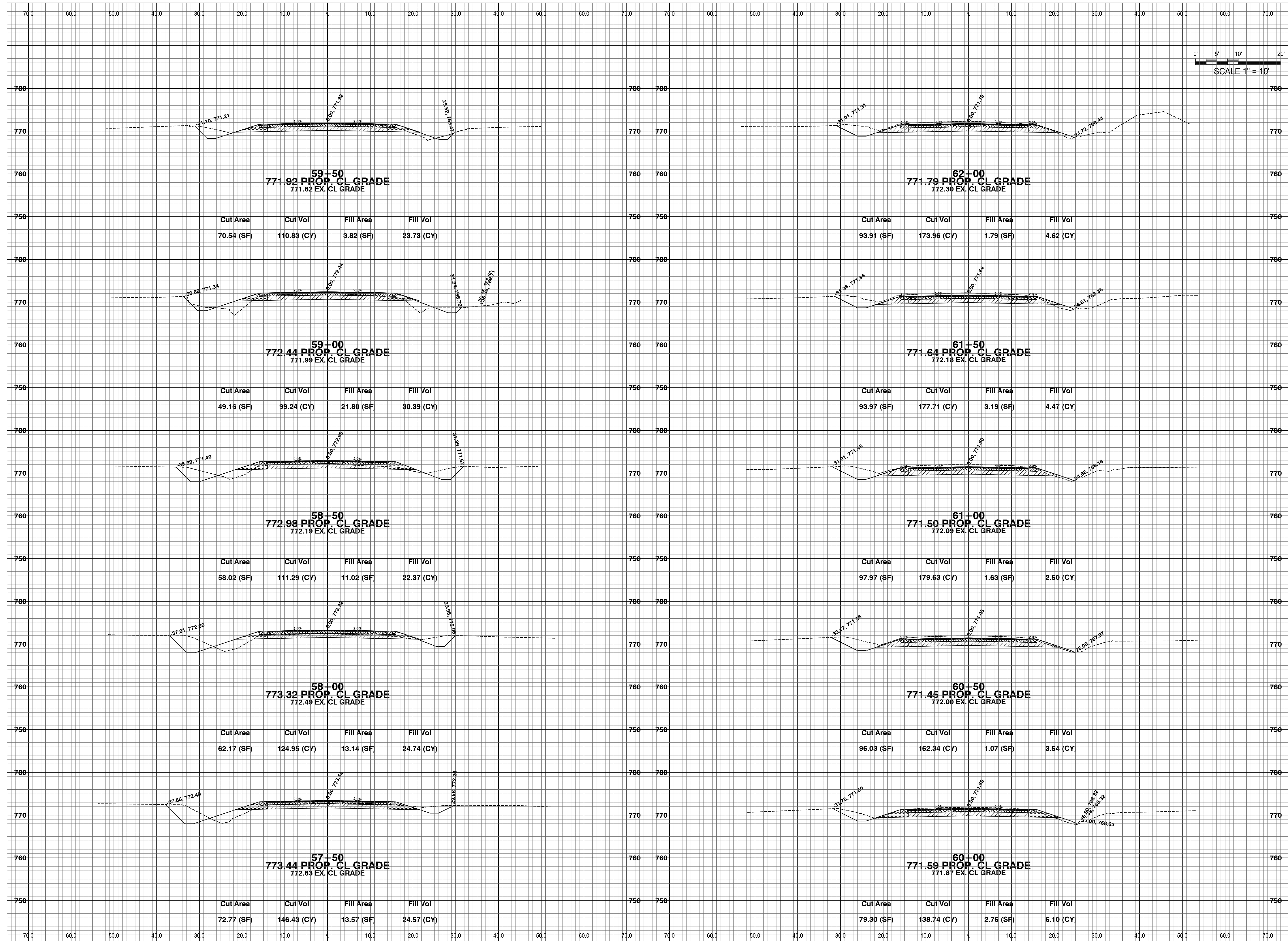
**ALLEGAN COUNTY ROAD COMMISSION**

ATTN: MR. JASON EDWARDS  
1308 LINCOLN RD  
ALLEGAN, MI 49010

**6TH ST & 131ST AVE RECONSTRUCTION**

GREGORVILLE RD TO 4TH ST  
WAYLAND TWP, ALLEGAN CO, MI 49348

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Project Manager LYNNELLE E. BERKENPAS, PE	
Drawn by RACHAEL M. NAGELKIRK, EIT	
Checked by	Date
Civil	.
Struc.	.
L. A.	.
HEI Project Number 19-11-011	
Sheet Title CROSS SECTIONS STA. 52+50 TO STA. 57+00	
Sheet No. 20	



The Surveyors' liability for any and all claims, including but not limited to those arising out of the negligence, gross negligence, or professional services, misconduct, warranties or amount no greater than the service fee.

**ALLEGAN COUNTY ROAD COMMISSION**

ATTN: MR. JASON EDWARDS  
1308 LINCOLN RD  
ALLEGAN, MI 49010

**6TH ST & 131ST AVE RECONSTRUCTION**

GREGORVILLE RD TO 4TH ST  
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Project Manager  
LYNNELLE E. BERKENPAS, PE

Drawn by  
RACHAEL M. NAGELKIRK, EIT

Checked by  
Survey

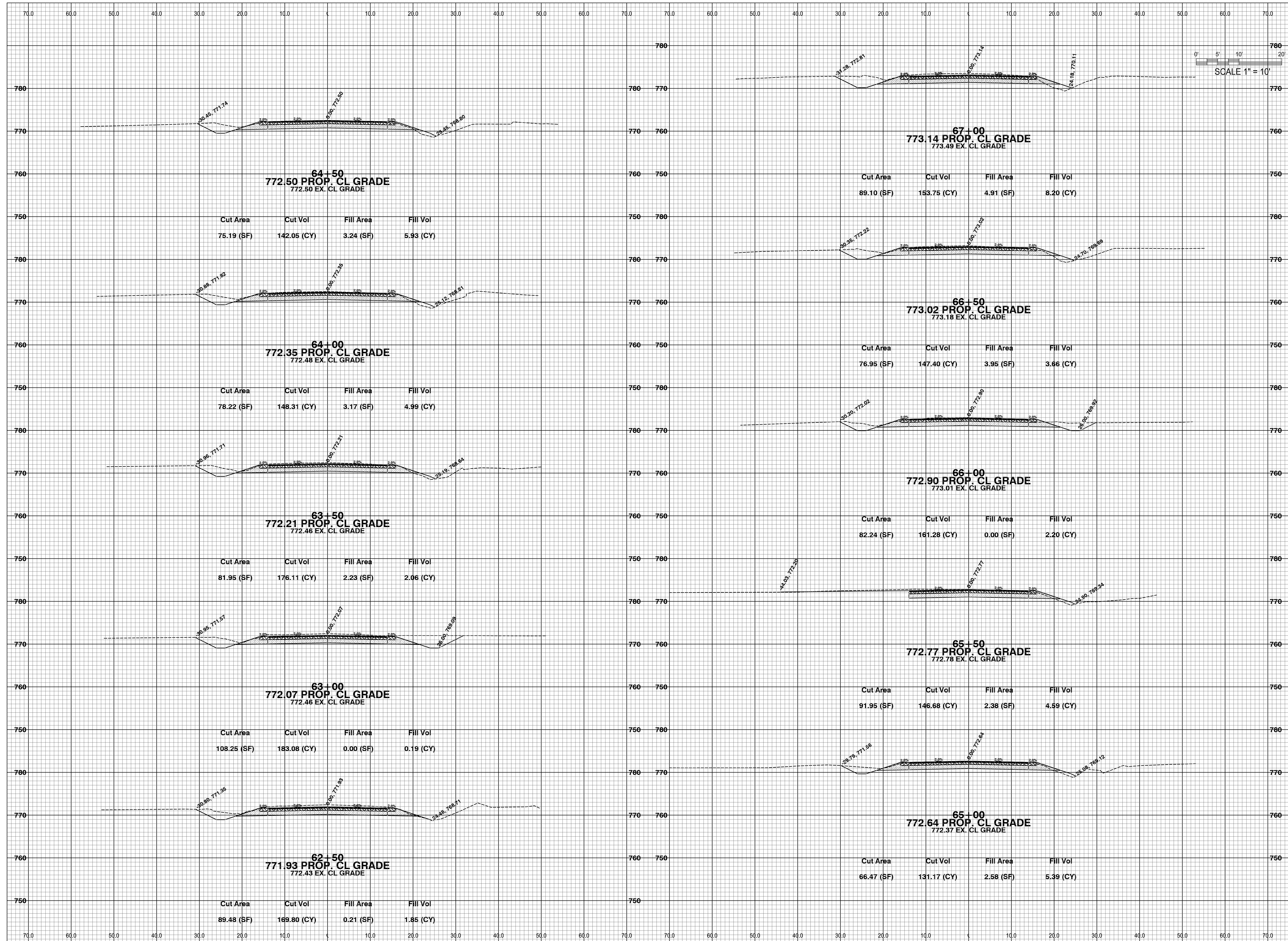
Civil

Struc.

L. A.

HEI Project Number  
19-11-011

Sheet Title  
CROSS SECTIONS  
STA. 57+50 TO STA.  
62+00



The Surveyors' fee for any and all claims, including but not limited to those arising out of the negligence, gross negligence, or willful misconduct, shall be deemed limited to an amount no greater than the service fee.

**ALLEGAN COUNTY ROAD COMMISSION**

ATTN: MR. JASON EDWARDS  
1308 LINCOLN RD  
ALLEGAN, MI 49010

**6TH ST & 131ST AVE RECONSTRUCTION**

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Project Manager  
LYNNELLE E. BERKENPAS, PE

Drawn by  
RACHAEL M. NAGELKIRK, EIT

Checked by  
Survey . . . . . Date . . . . .

Civil . . . . .

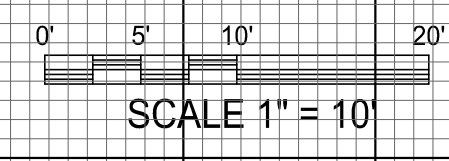
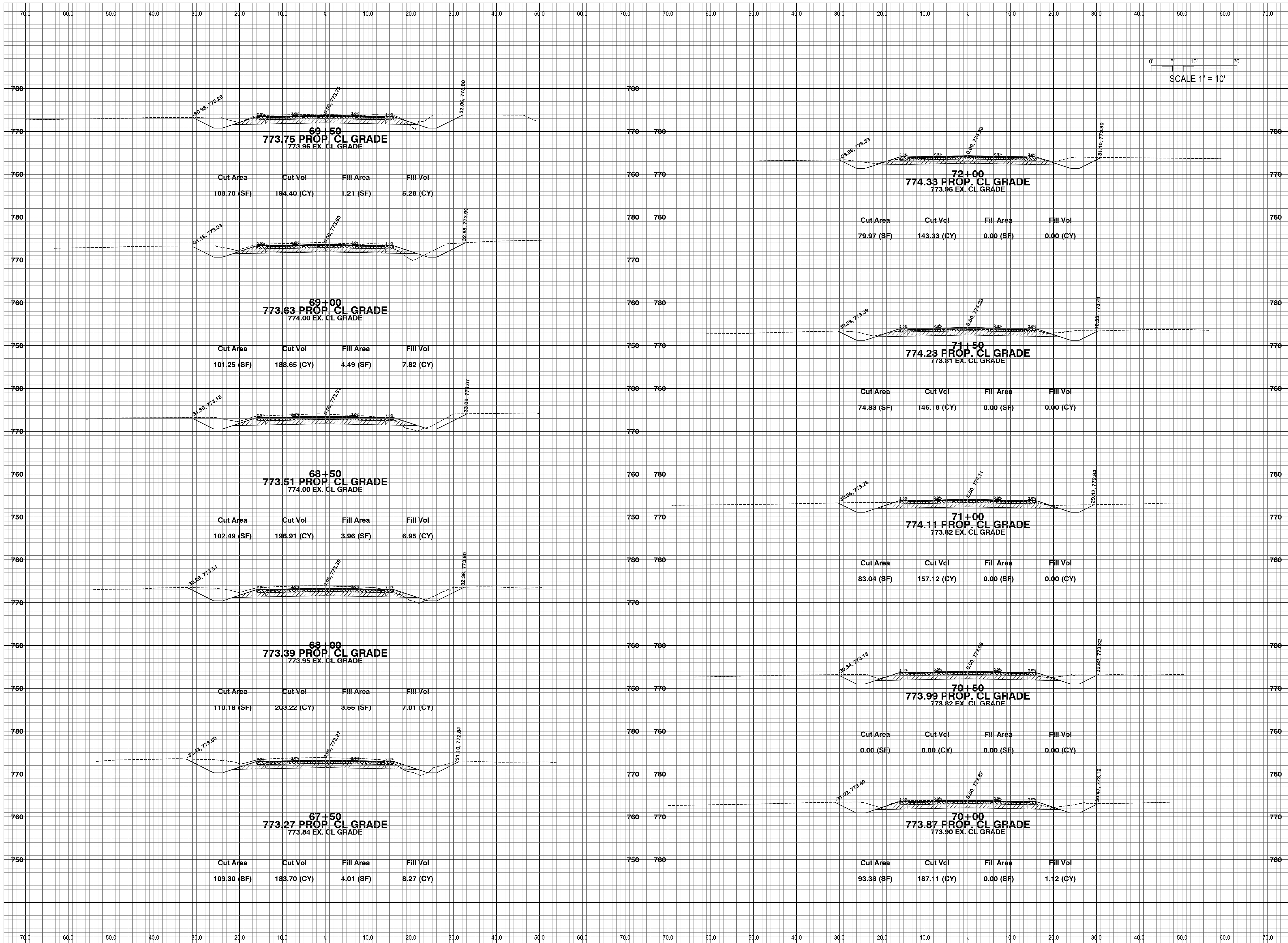
Struc. . . . .

L. A. . . . .

HEI Project Number  
19-11-011

Sheet Title  
**CROSS SECTIONS  
STA. 62+50 TO STA.  
67+00**





The Surveyors' liability for any and all claims, including but not limited to those arising out of the performance of their professional services, negligence, gross misconduct, warranties or misstatements, shall be deemed limited to an amount no greater than the service fee.

**ALLEGAN COUNTY ROAD COMMISSION**

ATTN: MR. JASON EDWARDS  
1308 LINCOLN RD  
ALLEGAN, MI 49010

**6TH ST & 131ST AVE RECONSTRUCTION**

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Date: \_\_\_\_\_

Project Manager: LYNNELLE E. BERKENPAS, PE

Drawn by: RACHAEL M. NAGELKIRK, EIT

Checked by: \_\_\_\_\_ Date: \_\_\_\_\_

Survey: \_\_\_\_\_

Civil: \_\_\_\_\_

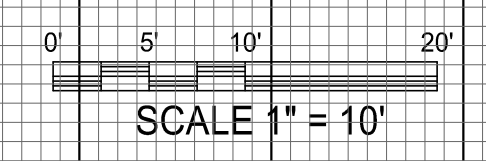
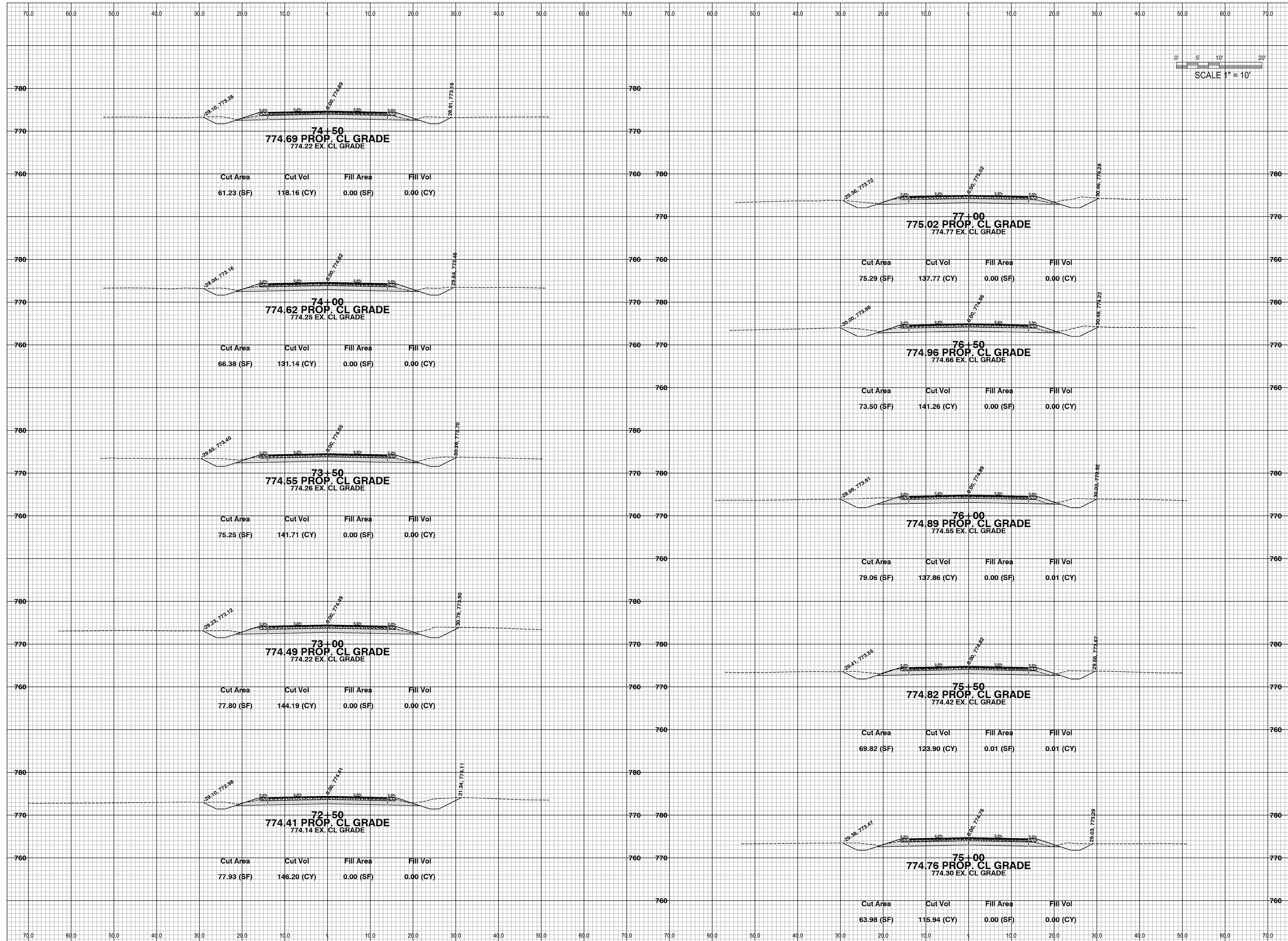
Struc: \_\_\_\_\_

L. A.: \_\_\_\_\_

HEI Project Number: 19-11-011

Sheet Title: CROSS SECTIONS STA. 67+50 TO STA. 72+00

Sheet No.: 23



The Surveyors' liability for any and all claims, including but not limited to those arising out of the negligence, gross negligence, gross misconduct, or willful or wanton acts, shall be deemed limited to an amount no greater than the service fee.

**ALLEGAN COUNTY ROAD COMMISSION**

ATTN: MR. JASON EDWARDS  
1308 LINCOLN RD  
ALLEGAN, MI 49010

**6TH ST & 131ST AVE RECONSTRUCTION**

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LYNNELLE E. BERKENPAS, PE

Drawn by  
RACHAEL M. NAGELKIRK, EIT

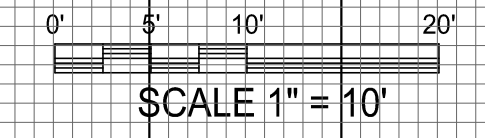
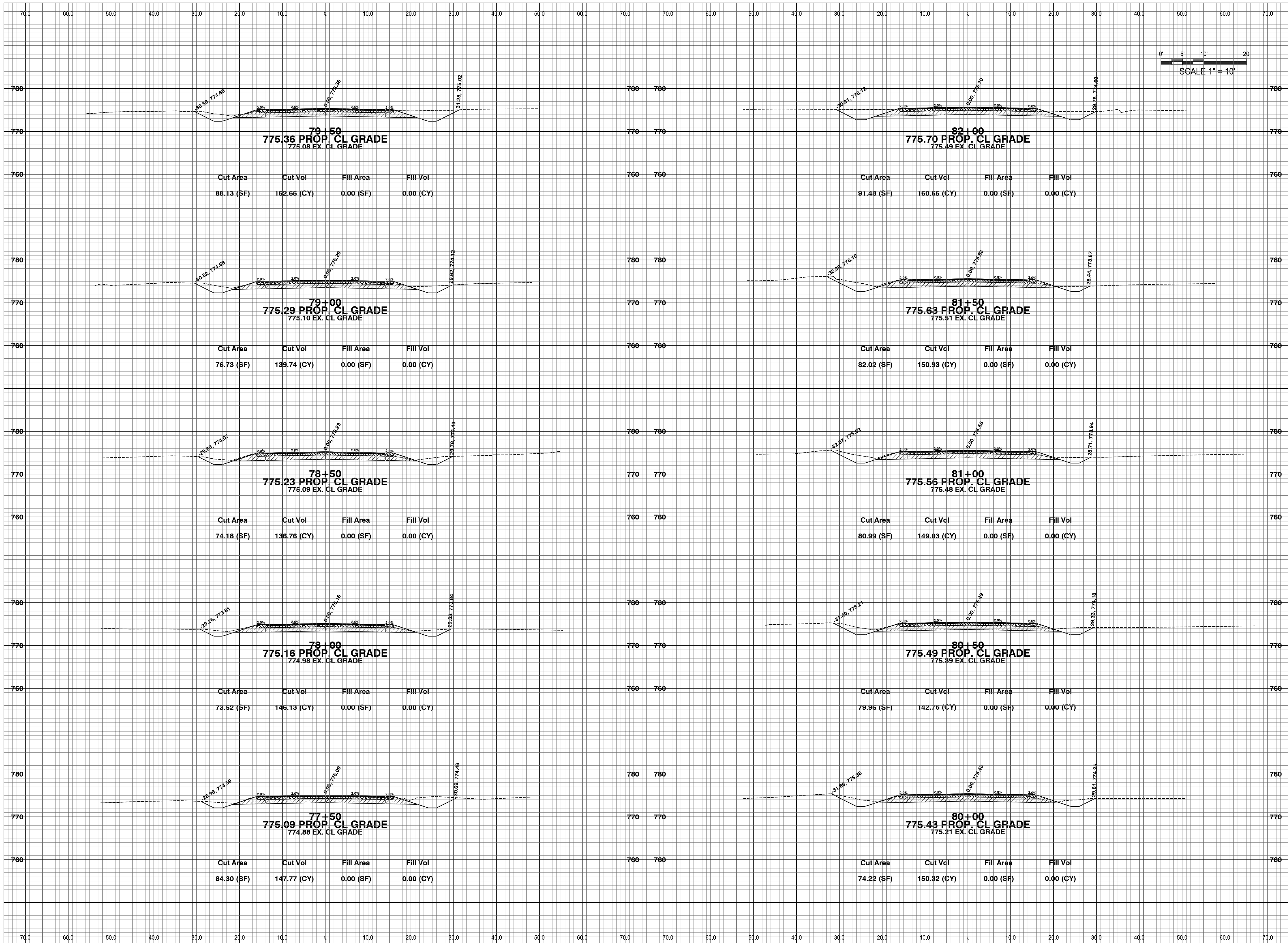
Checked by  
Survey . . . . . Date . . . . .

Civil . . . . .  
Struc. . . . .  
L. A. . . . .

HEI Project Number  
19-11-011

Sheet Title  
**CROSS SECTIONS  
STA. 72+50 TO STA.  
77+00**

Sheet No.  
24



The Surveyors' fee for any and all claims, including but not limited to those arising out of the negligence, gross negligence, or professional malpractice of the Surveyor, shall be deemed limited to an amount no greater than the service fee.

**ALLEGAN COUNTY ROAD COMMISSION**

ATTN: MR. JASON EDWARDS  
1308 LINCOLN RD  
ALLEGAN, MI 49010

**6TH ST & 131ST AVE RECONSTRUCTION**

GREGORVILLE RD TO 4TH ST  
WAYLAND TWP, ALLEGAN CO, MI 49348

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LYNNELLE E. BERKENPAS, PE

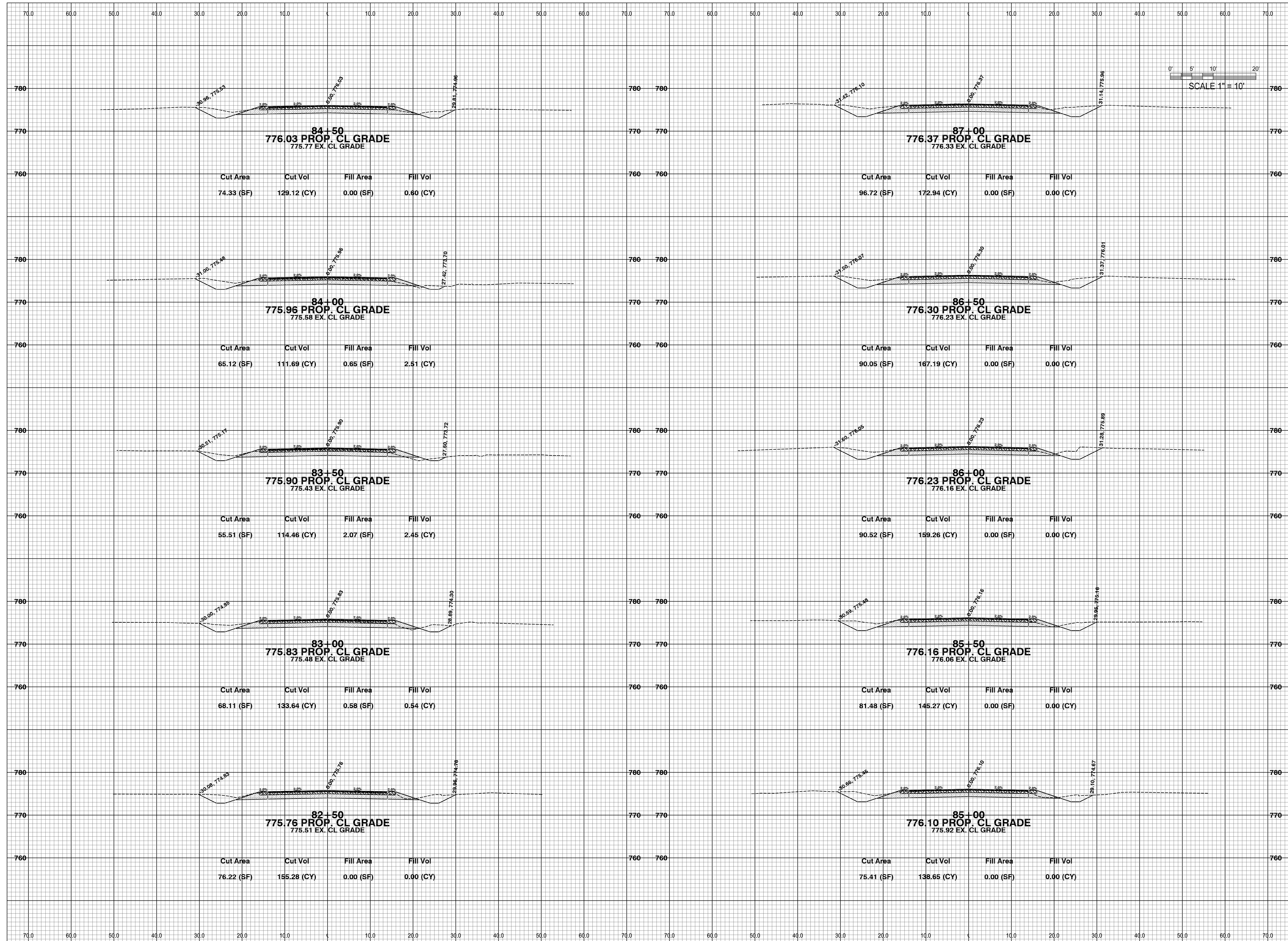
Drawn by  
RACHAEL M. NAGELKIRK, EIT  
Checked by \_\_\_\_\_ Date \_\_\_\_\_  
Surveyed by \_\_\_\_\_  
Civil \_\_\_\_\_  
Struc. \_\_\_\_\_  
L. A. \_\_\_\_\_

HEI Project Number  
19-11-011

Sheet Title  
CROSS SECTIONS  
STA. 77+50 TO STA.  
82+00

Sheet No.  
25





The Surveyors' fee for any and all claims, including but not limited to those arising out of the negligence, gross negligence, or willful and wanton misconduct, shall be deemed limited to an amount no greater than the service fee.

**ALLEGAN COUNTY ROAD COMMISSION**

ATTN: MR. JASON EDWARDS  
1308 LINCOLN RD  
ALLEGAN, MI 49010

**6TH ST & 131ST AVE RECONSTRUCTION**

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Project Manager  
LYNNELLE E. BERKENPAS, PE

Drawn by  
RACHAEL M. NAGELKIRK, EIT

Checked by  
Survey

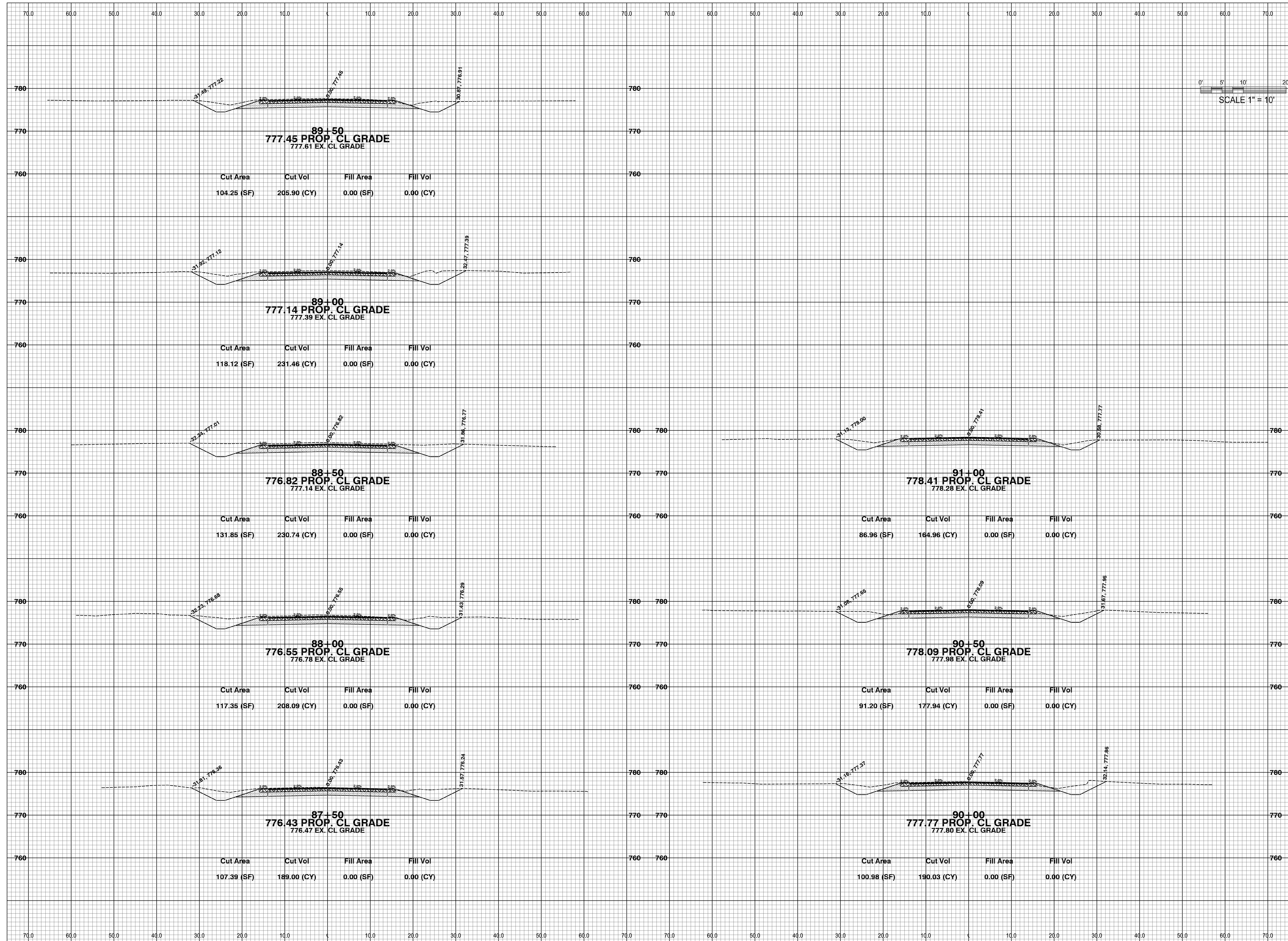
Civil

Struc.

L. A.

HEI Project Number  
19-11-011

Sheet Title  
**CROSS SECTIONS  
STA. 82+50 TO STA.  
87+00**



The Surveyors' fee for any and all claims, including but not limited to those arising out of the negligence, gross negligence, gross misconduct, warranties or omissions, shall be deemed limited to an amount no greater than the service fee.

**ALLEGAN COUNTY ROAD COMMISSION**

ATTN: MR. JASON EDWARDS  
1308 LINCOLN RD  
ALLEGAN, MI 49010

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LYNNELLE E. BERKENPAS, PE

Drawn by  
RACHAEL M. NAGELKIRK, EIT

Checked by  
Survey

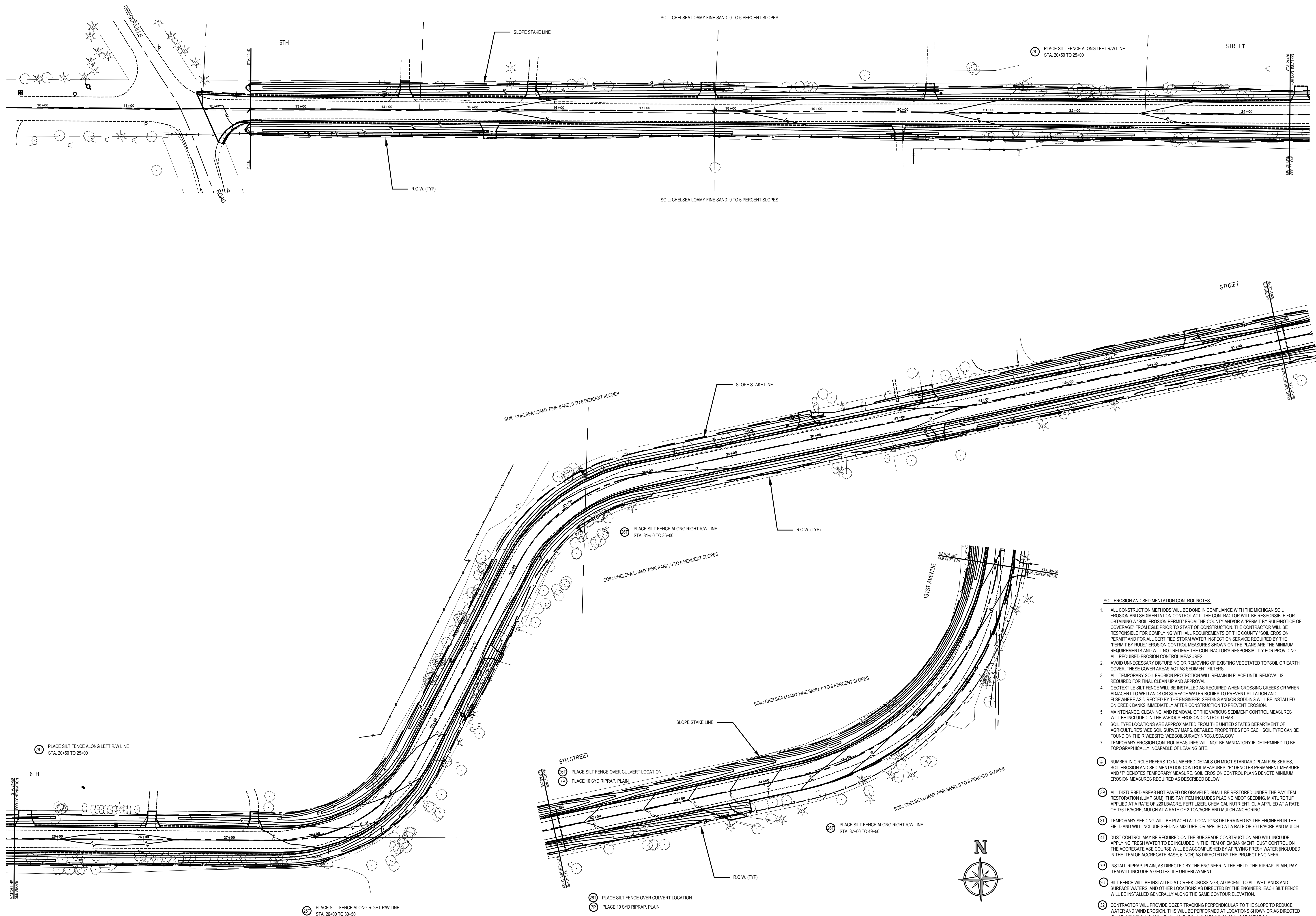
Civil

Struc.

L. A.

HEI Project Number  
19-11-011

Sheet Title  
**CROSS SECTIONS STA. 87+50 TO P.O.E.**



- SOIL EROSION AND SEDIMENTATION CONTROL NOTES:**
- 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 EGLE 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.
  - 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 SOODING 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: [WEB.SOILSURVEY.NCS.USDA.GOV](http://WEB.SOILSURVEY.NCS.USDA.GOV)
  - TEMPORARY EROSION CONTROL MEASURES WILL NOT BE MANDATORY IF DETERMINED TO BE TOPOGRAPHICALLY INCAPABLE OF LEAVING SITE.
- NUMBER IN CIRCLE REFERS TO NUMBERED DETAILS ON MDOT STANDARD PLAN R-86 SERIES. SOIL EROSION AND 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 RESTORATION (LUMP SUM). THIS PAY ITEM INCLUDES PLACING MDOT SEEDING MIXTURE TYP APPLIED AT A RATE OF 220 LB/ACRE, FERTILIZER, CHEMICAL NUTRIENT, CL APPLIED AT A RATE OF 175 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.
  - DUST CONTROL MAY BE REQUIRED ON THE SUBGRADE CONSTRUCTION AND WILL INCLUDE APPLYING FRESH WATER TO BE INCLUDED IN THE ITEM OF EMBANKMENT. 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) AS DIRECTED BY THE ENGINEER IN THE FIELD. THE RIPRAP (PLAIN), PAY ITEM 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.
  - CHECK DAMS WILL BE INSTALLED AT THE LOCATIONS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER IN THE FIELD.

The Engineer's liability for any and all claims, including but not limited to those arising from negligence, professional services, or other matters shall be deemed limited to an amount no greater than the service fee.

**ALLEGAN COUNTY ROAD COMMISSION**  
 ATTN: MR. JASON EDWARDS  
 1308 LINCOLN RD  
 ALLEGAN, MI 49010

**6TH ST & 131ST AVE RECONSTRUCTION**  
 GREGORVILLE RD TO 4TH ST  
 WAYLAND TWP, ALLEGAN CO, MI 49348

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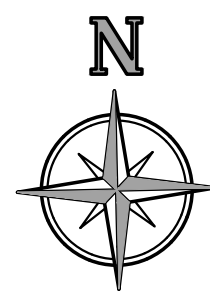
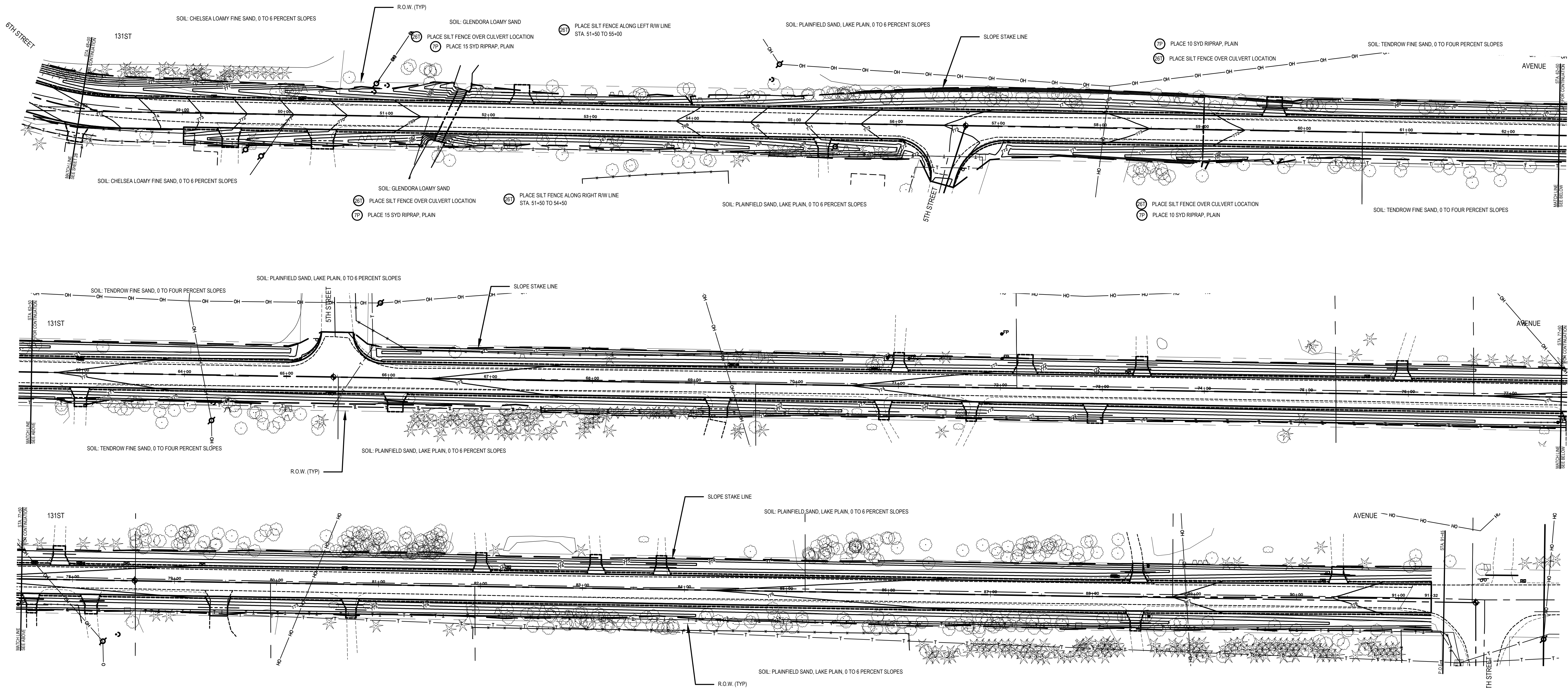
Drawn by	RACHAEL M. NAGELKIRK, EIT
Checked by	Survey
Civil	
Struc.	
L. A.	

HEI Project Number  
 19-11-011

Sheet Title  
**SOIL EROSION & SEDIMENTATION CONTROL PLAN**

Sheet No.  
 28





SCALE 1" = 50'

**SOIL EROSION AND 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 EGLE 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: [WEB.SURVEY.NRCS.USDA.GOV](http://WEB.SURVEY.NRCS.USDA.GOV)
7. TEMPORARY EROSION CONTROL MEASURES WILL NOT BE MANDATORY IF DETERMINED TO BE TOPOGRAPHICALLY INCAPABLE OF LEAVING SITE.
8. NUMBER IN CIRCLE REFERS TO NUMBERED DETAILS ON MDDT STANDARD PLAN R-96 SERIES. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES: "P" DENOTES PERMANENT MEASURE AND "T" DENOTES TEMPORARY MEASURE. SOIL EROSION CONTROL PLANS DENOTE MINIMUM EROSION MEASURES REQUIRED AS DESCRIBED BELOW.
9. ALL DISTURBED AREAS NOT PAVED OR GRAVELED SHALL BE RESTORED UNDER THE PAY ITEM RESTORATION (LUMP SUM). THIS PAY ITEM INCLUDES PLACING MDT 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.
10. 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.
11. DUST CONTROL MAY BE REQUIRED ON THE SUBGRADE CONSTRUCTION AND WILL INCLUDE APPLYING FRESH WATER TO BE INCLUDED IN THE ITEM OF EMBANKMENT. DUST CONTROL ON THE AGGREGATE BASE COURSE WILL BE ACCOMPLISHED BY APPLYING FRESH WATER INCLUDED IN THE ITEM OF AGGREGATE BASE. 8 INCH AS DIRECTED BY THE PROJECT ENGINEER.
12. INSTALL RIPRAP, PLAIN, AS DIRECTED BY THE ENGINEER IN THE FIELD. THE RIPRAP, PLAIN, PAY ITEM WILL INCLUDE A GEOTEXTILE UNDERLAYMENT.
13. 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.
14. 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.
15. 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.
16. CHECK DAMS WILL BE INSTALLED AT THE LOCATIONS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER IN THE FIELD.

The Surety's liability for any and all claims, including but not limited to those arising from negligence, gross negligence, or intentional misrepresentations shall be deemed limited to the amount no greater than the service fee.

**ALLEGAN COUNTY ROAD COMMISSION**  
 ATTN: MR. JASON EDWARDS  
 1308 LINCOLN RD  
 ALLEGAN, MI 49010

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Project Manager  
 LYNNELLE E. BERKENPAS, PE

Drawn by  
 RACHAEL M. NAGELKIRK, EIT

Checked by  
 Survey . . . . . Date . . . . .

Civil . . . . .

Struc. . . . .

L. A. . . . .

HEI Project Number  
 19-11-011

Sheet Title  
**SOIL EROSION & SEDIMENTATION CONTROL PLAN**