

ALLEGAN COUNTY ROAD COMMISSION

TAFT ROAD RECONSTRUCTION PROJECT M40 TO 124TH AVENUE - VALLEY TOWNSHIP

ACRC PROJECT NO.

LH400022

NOTES

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 ON UNIFORM TRAFFIC CONTROL DEVICES AS AMENDED.

IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, ALL CONTRACTORS SHALL CALL MISS DIG @ 811 OR 800-482-7171 FOR PROTECTION OF UNDERGROUND UTILITIES A MINIMUM OF THREE FULL WORKING DAYS (EXCLUDING SATURDAYS, SUNDAYS AND HOLIDAYS) PRIOR TO BEGINNING EACH EXCAVATION IN ANY AREA. 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.

UTILITIES

ELECTRIC	CONSUMERS ENERGY 4000 CLAY AVE SW GRAND RAPIDS, MI 49548 KYLEE BAILEY
TELEPHONE	FRONTIER COMMUNICATIONS 601 N US-131 THREE RIVERS, MI 49093 269-370-4046 LANCE WEBLEY
"MISS DIG"	811

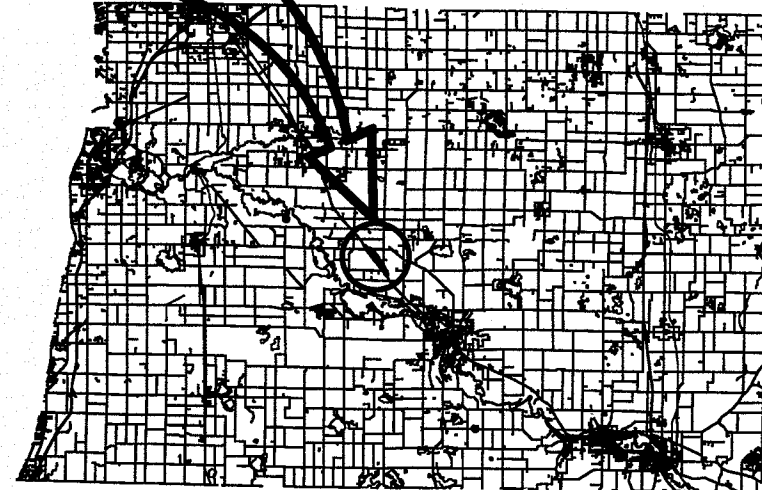
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19	CROSS SECTIONS STA. 65+00 TO STA. 74+00
20	CROSS SECTIONS STA. 75+00 TO STA. 84+00
21	CROSS SECTIONS STA. 85+00 TO STA. 87+00

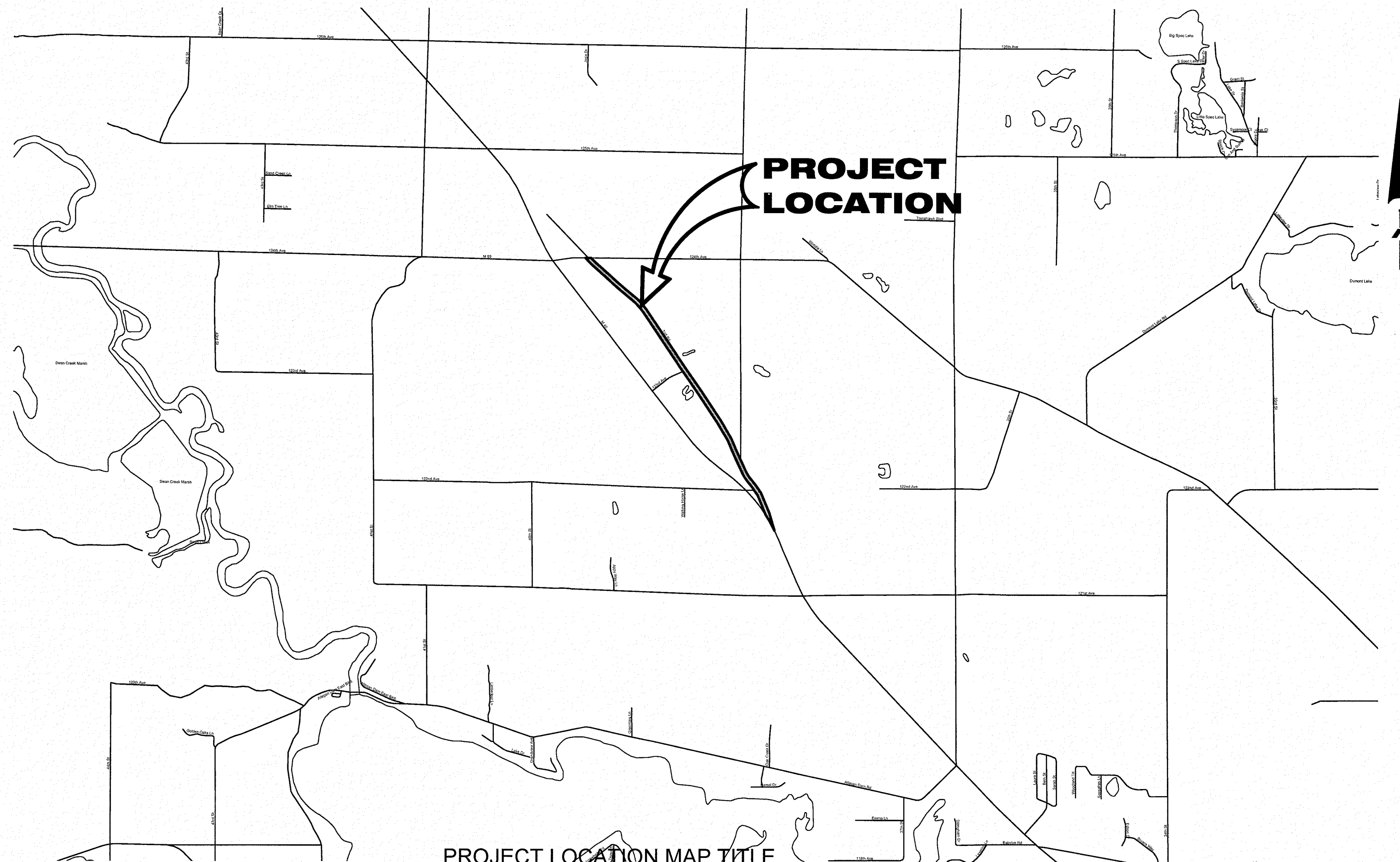
M.D.O.T. STANDARD PLANS

R-82-D	BEDDING AND FILLING AROUND PIPE CULVERTS
R-83-B	UTILITY TRENCHES
R-86-D	PRECAST CONCRETE END SECTION FOR PIPE CULVERT
R-99-E	SOIL EROSION & SEDIMENTATION CONTROL MEASURES
R-100-G	SEEDING AND TREE PLANTING

PROJECT LOCATION

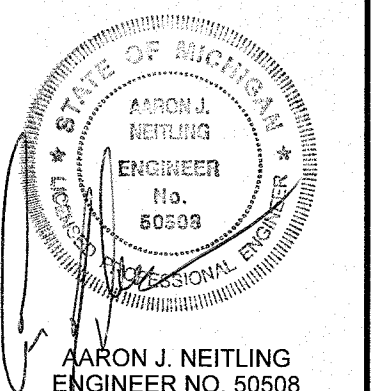


ALLEGAN COUNTY, MICHIGAN
VICINITY MAP
SCALE: NONE



PROJECT LOCATION MAP TITLE
PROJECT LOCATION MAP
SCALE: NONE

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BENTON HARBOR
269.927.0100
KALAMAZOO
269.327.3532
ALLEGAN
269.673.8465
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PROJECT NAME:
TAFT ROAD RECONSTRUCTION PROJECT
M40 TO 124TH AVENUE - VALLEY TOWNSHIP
M40 TO 124TH AVENUE

ALLEGAN COUNTY ROAD COMMISSION
1308 LINCOLN ROAD
ALLEGAN, MI 49010-9762

01 6/23/2021 AMV
FINAL PLANS ISSUED

REVISIONS
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DATE: JUNE 2021
SCALE: NONE

COVER SHEET

PROJECT NOTES

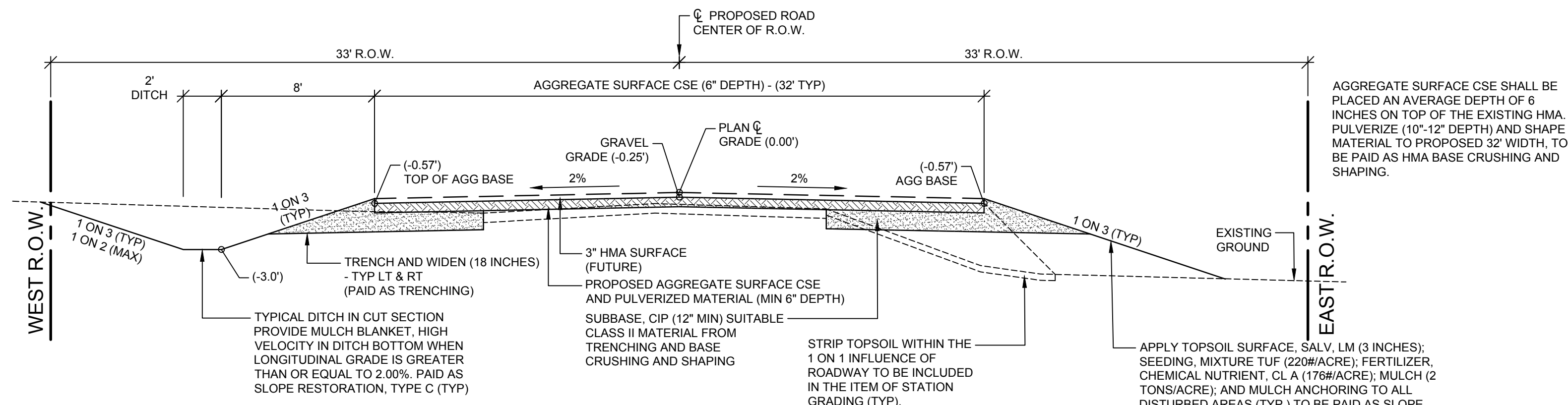
- THE "2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND "STANDARD PLANS" BY THE MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) ARE HEREBY INCORPORATED INTO THESE CONTRACT DOCUMENTS. COPIES OF THESE STANDARDS ARE AVAILABLE FOR INSPECTION AT THE OFFICE OF THE ENGINEER.
- IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, ALL CONTRACTORS SHALL CALL MISS DIG @ 811 OR 800-482-7171 FOR PROTECTION OF UNDERGROUND UTILITIES. A MINIMUM OF THREE FULL WORKING DAYS (EXCLUDING SATURDAYS, SUNDAYS AND HOLIDAYS) PRIOR TO BEGINNING EACH EXCAVATION IN ANY AREA, 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 SHALL LOCATE ALL ACTIVE UNDERGROUND UTILITIES PRIOR TO STARTING WORK AND SHALL CONDUCT HIS OPERATIONS IN A MANNER AS TO ENSURE THAT THOSE UTILITIES NOT REQUIRING RELOCATION WILL NOT BE DISTURBED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE ALLEGAN COUNTY ROAD COMMISSION TO NOTIFY THEM THAT WORK IS COMMENCING.
- THE CONTRACTOR SHALL NOTE THAT STATION GRADING INCLUDES THE REMOVAL OF FENCES, CULVERTS, BRUSH, TREES SMALLER THAN 6" CONCRETE FOUNDATIONS, AND MISCELLANEOUS ITEMS AS NECESSARY INCLUDING 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 SHALL 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 SHALL BE REMOVED FROM SITE BY THE CONTRACTOR. NOTE: NO BORROW OR SOIL REMOVAL ARRANGEMENTS HAVE BEEN PREARRANGED FOR THIS PROJECT, AND SHALL 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 OCTOBER 22, 2015. GEOPROBE SAMPLES AND PEAT SOUNDINGS WERE TAKEN BY WIGHTMAN ON MARCH 10, 2021. THE TEST BORINGS REPRESENT POINT INFORMATION AND MAY NOT HAVE ENCOUNTERED ALL THE TYPES AND MATERIALS WHICH ARE PRESENT AT THE SITE. THESE BORING LOGS DO NOT CONSTITUTE A GUARANTEE OF THE SOIL OR GROUNDWATER CONDITIONS, OR THAT THE TEST BORINGS ARE AN EXACT REPRESENTATION OF THE SOIL OR GROUNDWATER CONDITIONS AT ALL POINTS ON THE SITE.
- SEE PLAN AND PROFILE SHEETS FOR SOIL BORING DATA.
- DRIVE REPLACEMENT SHALL 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 THE PROJECT THE CONTRACTOR WILL COORDINATE WITH THE ALLEGAN COUNTY ROAD COMMISSION TO PRESERVE AND RESET ALL GOVERNMENT CORNERS WITHIN THE PROJECT LIMITS.
- CONTRACTOR SHALL 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 THE IDENTIFICATION FOR EMERGENCY VEHICLES. PAYMENT FOR RELOCATION SHALL 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); FERTILIZER, CHEMICAL NUTRIENT, CL A (176#/ACRE); AND MULCH AND MULCH ANCHORING (2 TON/ACRE), TO BE PAID AS SLOPE RESTORATION, TYPE A.
- 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.
- 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.
- 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. DRAINS THAT ARE ENCOUNTERED AND IDENTIFIED AS SOMETHING OTHER THAN A FIELD DRAIN SHOULD BE REPORTED TO THE ENGINEER IMMEDIATELY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EXISTING DRAINAGE PATTERNS, AND WILL RESOLVE ANY DRAINAGE PROBLEMS ON ADJACENT PROPERTIES WHICH MAY RESULT FROM THE CONTRACTORS ACTIVITIES.
- DATUM REFERS TO NAVD88 DATUM.
- ALL SCALES FOR DRAWINGS AND DETAILS ARE BASED ON 24"x36" PRINTED PLANS. DIMENSIONS TAKE PRECEDENCE OVER SCALE. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD.
- THE ALLEGAN COUNTY ROAD COMMISSION WILL INSTALL ALL NECESSARY PERMANENT SIGNS BEFORE OPENING THE ROAD TO TRAFFIC. THE CONTRACTOR SHALL NOTIFY THE ROAD COMMISSION WHEN PERMANENT SIGNS CAN BE PLACED.
- PROPERTY OWNER'S NAMES, WHERE SHOWN, ARE FOR INFORMATION ONLY, AND THEIR ACCURACY IS NOT GUARANTEED.

LEGEND

		CABLE
		ELECTRIC LINE
		ELECTRIC LINE (OVERHEAD)
		FIBER OPTIC LINE
		GAS LINE
		TELEPHONE LINE
		FENCE
		FORCEMAIN
		GUARDRAIL
		SANITARY SEWER
		STORM SEWER
		WATER MAIN
		CENTER LINE
		EXISTING TREE LINE
		EXISTING DITCH LINE
		EASEMENT LINE/GRADING PERMIT
		GRADING LIMITS/LIMITS OF DISTURBANCE
		PROPERTY LINE
		RIGHT-OF-WAY LINE
		SECTION LINE
		TO BE ABANDONED
		ANTENNA
		CATCH BASIN
		CABLE RISER BOX
		CLEAN OUT
		CURB INLET
		ELECTRIC MANHOLE
		FIRE HYDRANT
		FOUND IRON PIPE
		GAS VALVE
		GUY ANCHOR
		LIGHT POLE
		MAILBOX
		MONITORING WELL
		POST
		SATELLITE DISH
		SANITARY MANHOLE
		SECTION CORNER
		SIGN
		PAVEMENT/SOIL BORING
		PROPOSED HYDRANT
		PROPOSED GATE VALVE & BOX
		PROPOSED GATE VALVE & VAULT
		PROPOSED REDUCER
		PROPOSED SANITARY MANHOLE
		PROPOSED STORM MANHOLE
		STORM MANHOLE
		TELEPHONE MANHOLE
		TELEPHONE RISER BOX
		TURNING POINT/TRVERSE
		UTILITY POLE
		VAULT
		WATER ELEVATION
		WATER MANHOLE
		WATER METER
		WATER VALVE
		WATER SPIGOT
		WELL

TREE DESIGNATORS

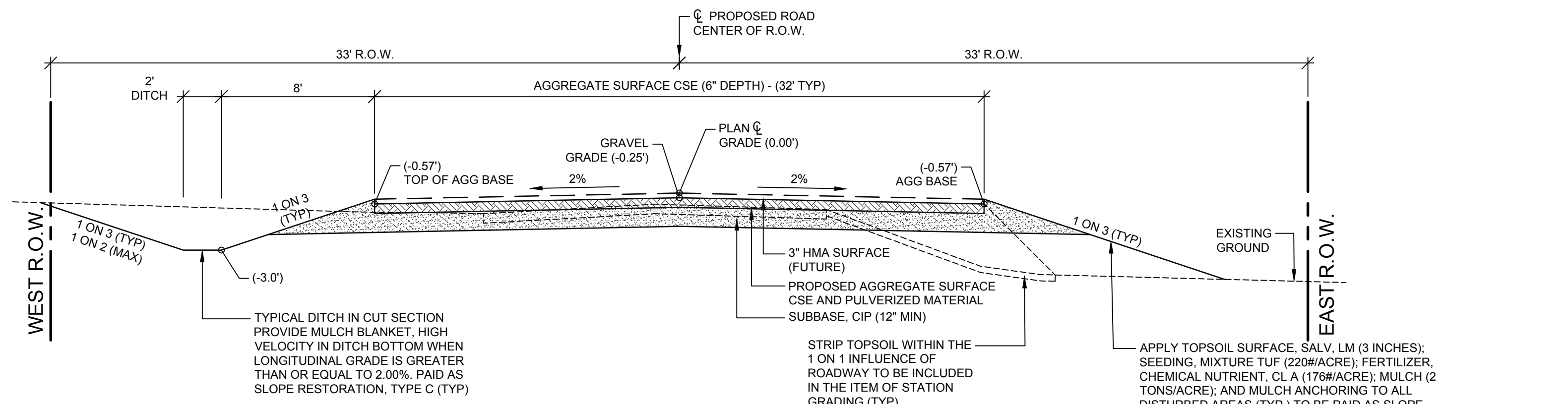
	BUSH		STUMP
	CONIFEROUS TREE		DECIDUOUS TREE
	CONIFEROUS TREE TO BE REMOVED		DECIDUOUS TREE TO BE REMOVED



CUT SECTION (TYP)

PROPOSED TYPICAL SECTION

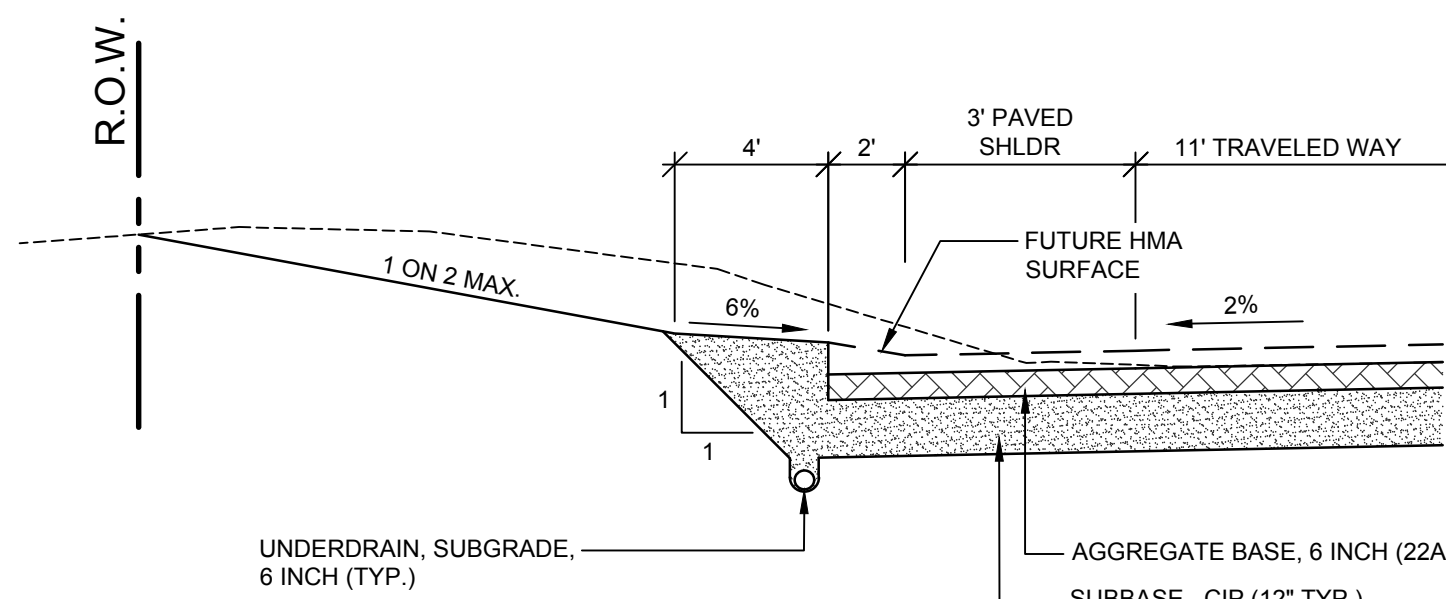
FILL SECTION (TYP)



CUT SECTION (TYP)

PROPOSED TYPICAL SECTION

FILL SECTION (TYP)



HMA CURB HALF SECTION

SCALE: 1" = 5"

THIS SECTION APPLIES TO:
 STA. 26+50 TO STA. 29+50 LT
 STA. 30+75 TO STA. 32+50 LT
 STA. 37+50 TO STA. 40+65 RT
 STA. 59+25 TO STA. 62+90 RT
 STA. 67+00 TO STA. 73+75 LT
 STA. 79+85 TO STA. 81+25 RT
 STA. 82+50 TO STA. 85+50 LT

SOIL BORINGS/GEOPROBES (STA 76+00 - 80+00)

SB-1	0 - 8" GRAVEL 8 - 70" BROWN MED SAND W/ TR GRAVEL 70 - 78" BLACK ORGANIC (PEAT/SILT) 78 - 150" BROWN FINE TO MED SAND 156 - 180" GRAY STILL CLAY 180 - 216" GRAY MED SAND 216 - 240" GRAY STIFF SANDY CLAY W/ TR GRAVEL 240" END OF BORING	SB-5	0 - 8" TOPSOIL 8 - 60" BROWN FINE TO MED SAND 60 - 63" BLACK ORGANIC SILT 63 - 66" DARK GRAY SILTY FINE SAND 66 - 180" BROWN FINE TO MED SAND 180" END OF BORING
SB-2	0 - 8" BROWN FINE TO MED SAND W/ TR GRAVEL 8 - 36" BROWN FINE TO MED SAND W/ FINE GRAVEL 36 - 60" GRAY FINE TO MED SAND W/ FINE GRAVEL 60 - 72" BLACK ORGANIC (PEAT/SILT) 72 - 180" BROWN FINE TO MED SAND 180" END OF BORING	SB-6	0 - 4" TOPSOIL 4 - 96" BROWN FINE SAND 96 - 108" BLACK ORGANIC SILT/CLAY 108 - 180" BROWN FINE TO MED SAND 180" END OF BORING
SB-3	0 - 8" GRAVEL 8 - 72" BROWN FINE SAND 72 - 84" BLACK CLAYEY ORGANIC (PEAT/SILT) 84 - 168" BROWN FINE TO MED SAND 168 - 180" BROWN SILTY CLAY 180" END OF BORING	SB-7	0 - 8" TOPSOIL 8 - 72" BROWN FINE SAND 72 - 62" BLACK ORGANIC SILT/PEAT 82 - 156" BROWN FINE TO MED SAND 156 - 168" GRAY SILT 168 - 180" GRAY SILTY CLAY W/ TR FINE SAND 180" END OF BORING
SB-4	0 - 12" BROWN FINE TO COARSE SAND W/ GRAVEL 12 - 24" BROWN CLAYEY FINE TO COARSE SAND W/ TR GRAVEL 24 - 72" BROWN FINE TO MED SAND 72 - 80" DARK BROWN SANDY CLAY 80 - 180" BROWN FINE TO MED SAND 180" END OF BORING	SB-8	0 - 12" TOPSOIL 12 - 24" BROWN FINE TO MED SAND 24 - 36" BROWN CLAYEY SAND 36 - 60" BROWN FINE TO MED SAND 60 - 72" GRAY SOFT CLAYEY SAND 72 - 108" GRAY FINE TO MED SAND 108 - 180" BROWN FINE TO MED SAND 180" END OF BORING
		SB-9	0 - 18" TOPSOIL 18 - 87" BROWN FINE SAND 87 - 97" GRAY CLAYEY SAND 97 - 180" GRAY FINE TO MED SAND 180" END OF BORING

MISCELLANEOUS QUANTITIES

ITEM	QTY.
Clearing	1 LSUM
Station Grading	1 LSUM
Topsoil Surface, Salv, LM	3,175 Cyd
Subgrade Undercutting, Type II	500 Cyd
Geotextile Stabilization	1,000 Syd
Aggregate, 6A	50 Ton
Culv, CI F, 12 inch	40 Ft
Culv, CI F, 18 inch	80 Ft
Underdrain, Subbase, 6 inch	300 Ft
Underdrain, Outlet, 6 inch	20 Ft
Underdrain, Outlet Ending, 6 inch	2 Ea
Approach, CI II	40 Ton
Approach, HMA Millings	20 Ton
Extended Restoration	1 LSUM
Sign, Type B, Temp. Modified	400 Sft
Plastic Drum, High Intensity, Modified	100 Ea
Barricade, Type III, High Intensity, Dble Sided, Ltd, Modified	10 Ea
Erosion Control, Silt Fence	400 Ft
Project Cleanup	1 LSUM

W+
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 ROYAL OAK
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AARON J. NEITLING
 ENGINEER NO. 50508

PROJECT NAME:
TAFT ROAD RECONSTRUCTION PROJECT
 M40 TO 124TH AVENUE - VALLEY TOWNSHIP
 M-40 TO 124TH AVENUE

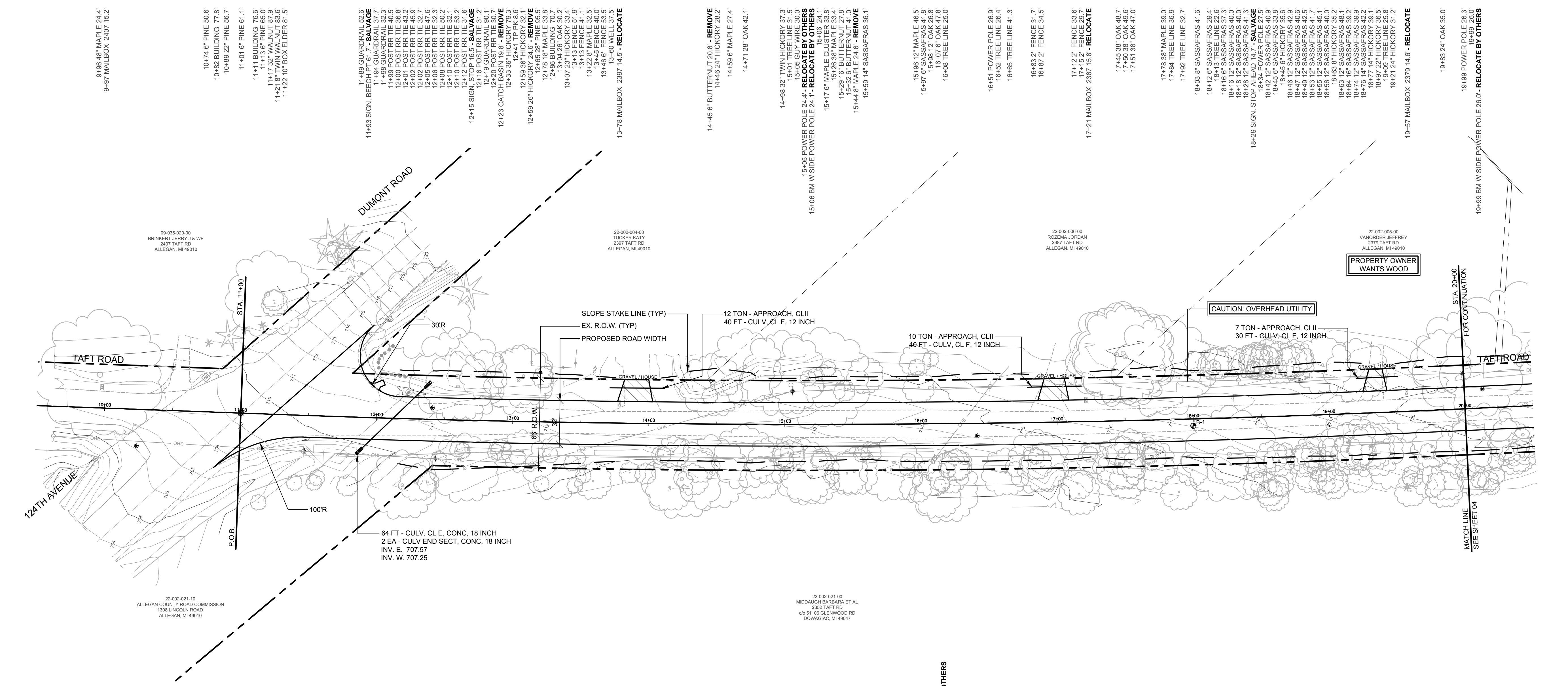
ALLEGAN COUNTY ROAD COMMISSION
 1308 LINCOLN ROAD
 ALLEGAN, MI 49010-9762

01/6/23/2021 AMV
 FINAL PLANS ISSUED

REVISIONS

DATE: JUNE 2021
 SCALE: AS NOTED

NOTES, MISC. QUANTITIES, TYPICAL SECTIONS



QUANTITIES THIS SHEET	
ITEM	QTY.
Subbase, CIP	415 Cyd
Trenching	9 Sta
HMA Base Crushing and Shaping	2,100 Syd
Aggregate Surface Cse	1,020 Ton
Culv End Sect, Conc, 18 inch	2 Ea
Culv, Cl E, Conc, 18 inch	64 Ft
Culv, Cl F, 12 inch	110 Ft
Approach, Cl II	29 Ton

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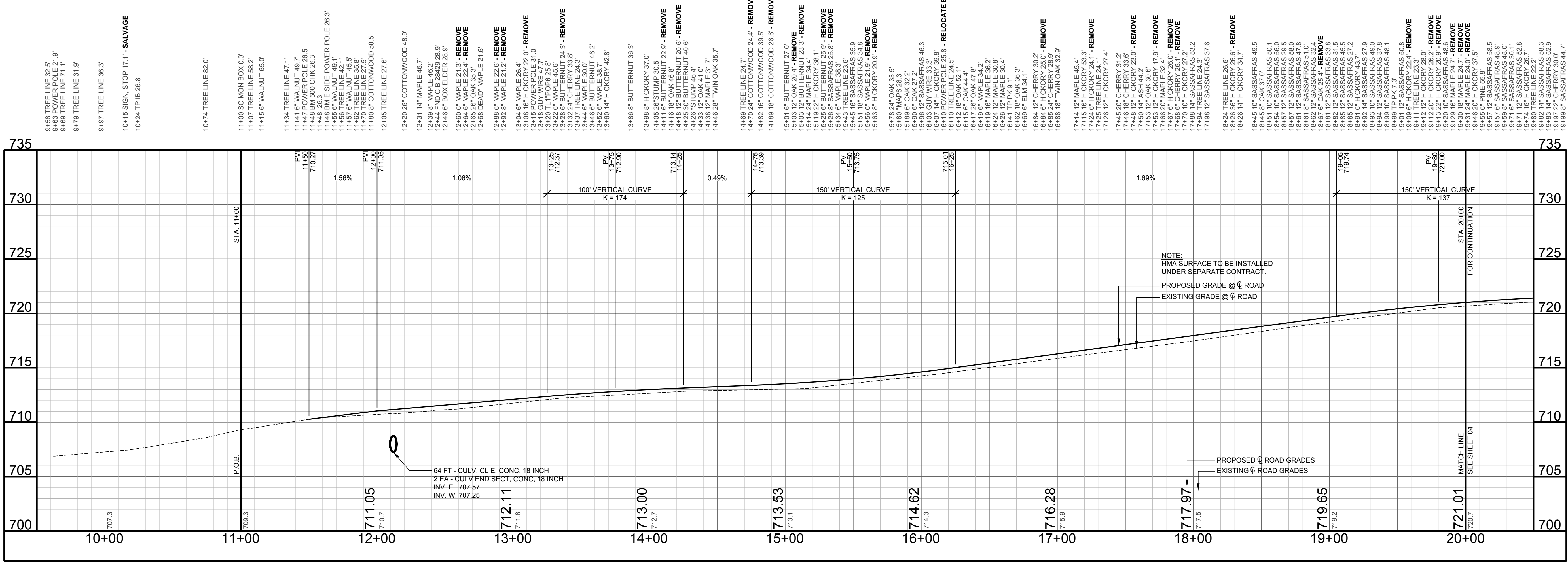
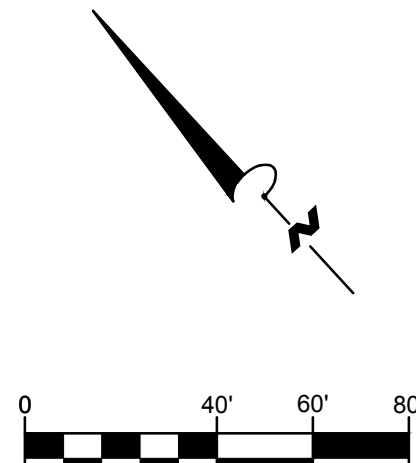
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ENGINEER NAME:
 AARON J. NEITLING
 ENGINEER NO. 50508

ALLEGAN COUNTY ROAD COMMISSION
 1308 LINCOLN ROAD
 ALLEGAN, MI 49010-9762

NOTE:
 HMA SURFACE TO BE INSTALLED UNDER SEPARATE CONTRACT.

ALL UTILITIES IN PROJECT LIMITS TO VERIFY LOCATION AND DEPTH. UTILITY TO RELOCATE AS REQUIRED FOR CONSTRUCTION AND PROPOSED WORK.



BENCHMARK #1: 60d NAIL IN E SIDE POWER POLE ELEV. = 707.57 STA. 11+48, 26.3' RT
BENCHMARK #2: 60d NAIL IN W SIDE POWER POLE ELEV. = 713.96 STA. 15+06, 24.1' LT
BENCHMARK #3: 60d NAIL IN W SIDE POWER POLE ELEV. = 722.72 STA. 19+99, 26.0' LT

BORINGS
 0 - 2' ASPHALT
 2 - 6" GRAVEL
 8 - 60" BROWN FINE TO MED SAND
 60" END OF BORING

LEGEND

- REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CLASS II 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, INCLUDED IN STATION GRADING. REGRADE EXISTING DRIVEWAY AS REQUIRED AND SURFACE WITH 6 INCHES OF APPROACH, CL II, 165#/SYD HMA, 13A; AND 165#/SYD HMA, 13A. MATCH EXISTING GRADE AT SAWCUT LINE. (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE).
- SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT, INCLUDED IN STATION GRADING. REGRADE EXISTING DRIVEWAY AS REQUIRED AND SURFACE WITH 6 INCHES OF APPROACH, CL II, 165#/SYD HMA, 13A; AND 165#/SYD HMA, 13A. MATCH EXISTING GRADE AT SAWCUT LINE. (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE).

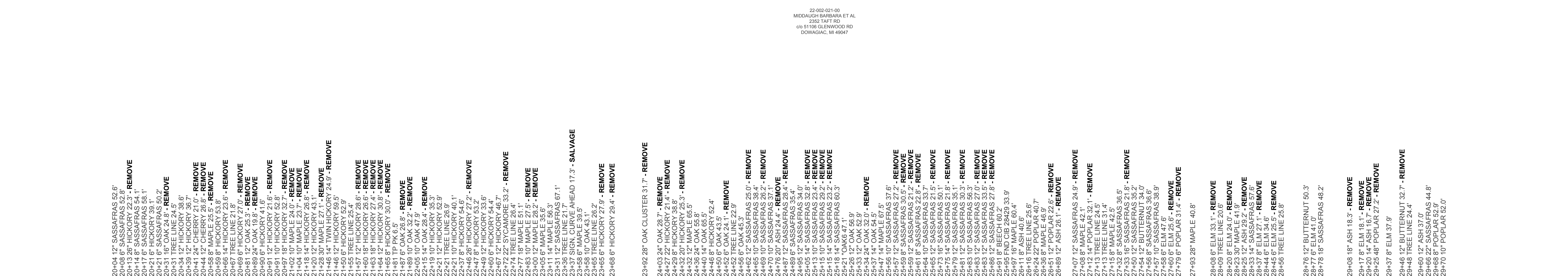
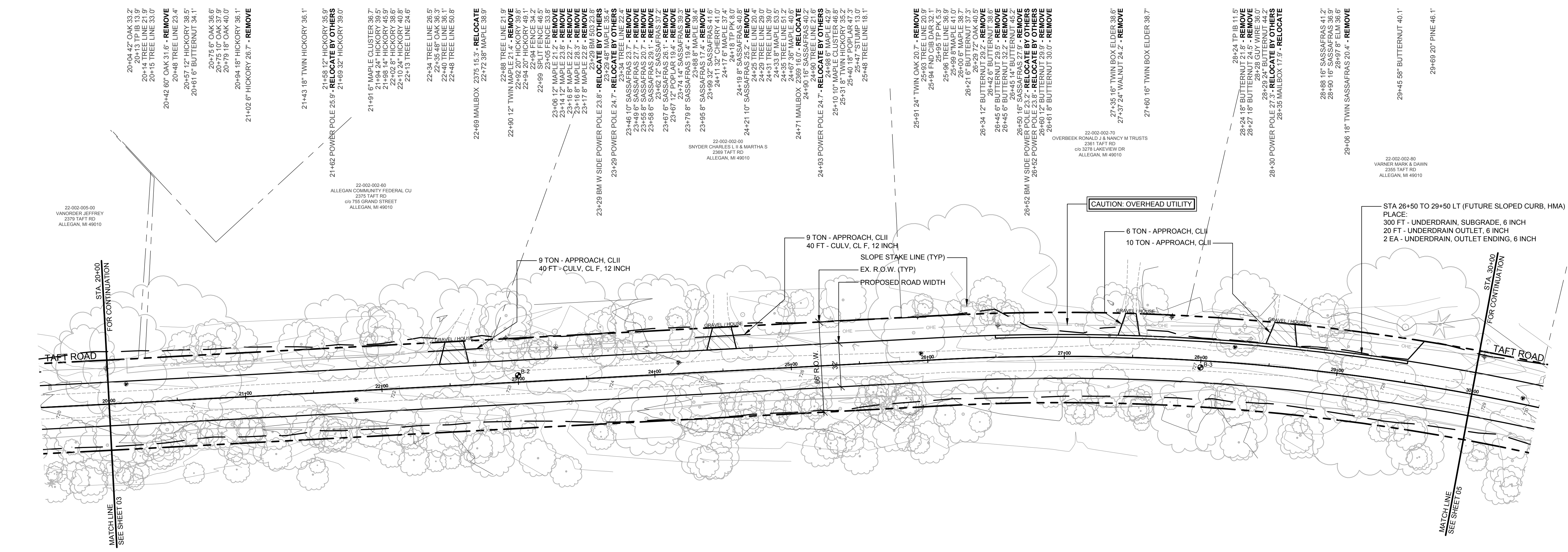
01/6/23/2021
 FINAL PLANS ISSUED AMV

REVISIONS

DATE: JUNE 2021
 SCALE: 1" = 40'H, 5'V

PLAN AND PROFILE
 STA. 11+00 TO STA. 20+00

JOB No. 212003
03
 OF 21



QUANTITIES THIS SHEET	
ITEM	QTY.
Subbase, CIP	580 Cyd
Trenching	10 Sta
HMA Base Crushing and Shaping	1,910 Syd
Aggregate Surface Cse	1,110 Ton
Culv, CI F, 12 inch	80 Ft
Underdrain, Subbase, 6 inch	300 Ft
Underdrain Outlet, 6 inch	20 Ft
Underdrain, Outlet Ending, 6 inch	2 Ea
Approach, CI II	34 Ton

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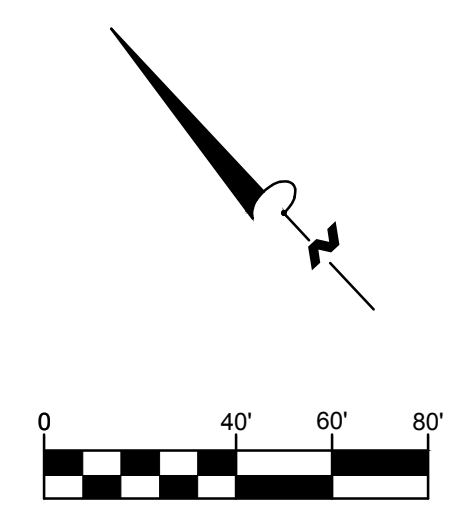
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M-40 TO 124TH AVENUE

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1308 LINCOLN ROAD
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NOTE:
HMA SURFACE TO BE INSTALLED UNDER SEPARATE CONTRACT.

ALL UTILITIES IN PROJECT LIMITS TO VERIFY LOCATION AND DEPTH. UTILITY TO RELOCATE AS REQUIRED FOR CONSTRUCTION AND PROPOSED WORK.



BENCHMARK #4: 60d NAIL IN W SIDE POWER POLE ELEV. = 724.48 STA. 23+27, 23.8' LT
BENCHMARK #5: 60d NAIL IN W SIDE POWER POLE ELEV. = 728.73 STA. 26+52, 23.2' LT

BORINGS

B-2
0 - 1 1/2" ASPHALT
1 1/2 - 4" GRAVEL
4 - 60" BROWN SILTY FINE TO MED SAND
60" END OF BORING

B-3
0 - 3" ASPHALT
4 - 60" BROWN SILTY FINE TO MED SAND
60" END OF BORING

LEGEND

REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CLASS II A DEPTH OF 6". AS DIRECTED BY THE ENGINEER IN THE FIELD, PAID FOR AS APPROACH, CL II BY THE TOWN.

SAWCUT AND REMOVE EXISTING HMA PAVEMENT, INCLUDED IN STATION GRADING. REGRADE EXISTING DRIVEWAY AS REQUIRED AND SURFACE WITH 6 INCHES OF APPROACH, CL II. 165#/SYD HMA, 13A; AND 165#/SYD HMA, 13A. MATCH EXISTING GRADE AT SAWCUT LINE. (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE).

SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT, INCLUDED IN STATION GRADING. REGRADE EXISTING DRIVEWAY AS REQUIRED AND SURFACE WITH 6 INCHES OF APPROACH, CL II. 165#/SYD HMA, 13A; AND 165#/SYD HMA, 13A. MATCH EXISTING GRADE AT SAWCUT LINE. (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE).

01/6/23/2021 FINAL PLANS ISSUED AMV

REVISIONS

DATE: JUNE 2021
SCALE: 1" = 40H, 5V

PLAN AND PROFILE
STA. 20+00 TO STA. 30+00

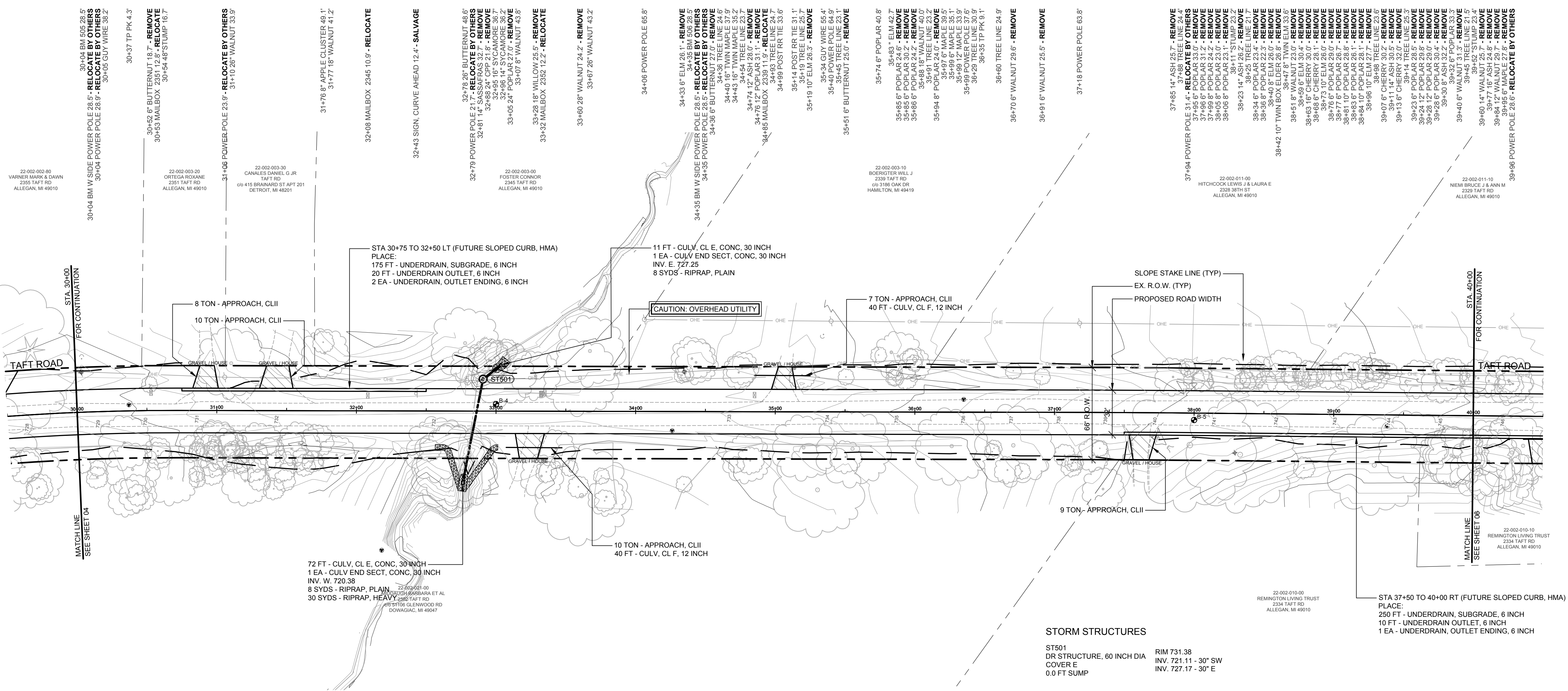
JOB No. 212003
04
OF 21

QUANTITIES THIS SHEET

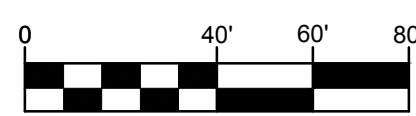
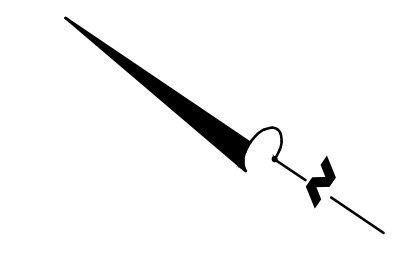
ITEM	QTY.
Subbase, CIP	575 Cyd
Trenching	10 Sta
HMA Base Crushing and Shaping	1,920 Syd
Aggregate Surface Cse	1,110 Ton
Culv End Sect, Conc, 30 inch	2 Ea
Culv, Cl E, Conc, 30 inch	83 Ft
Culv, Cl F, 12 inch	80 Ft
Dr Structure, 60 inch dia	1 Ea
Dr Structure Cover, Type E	1 Ea
Underdrain, Subbase, 6 inch	425 Ft
Underdrain Outlet, 6 inch	30 Ft
Underdrain, Outlet Ending, 6 inch	3 Ea
Approach, Cl II	44 Ton

W+
WIGHTMAN
 BENTON HARBOR
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 KALAMAZOO
 269.327.3532
 ALLEGAN
 269.673.8465
 ROYAL OAK
 248.791.1371
 www.gowightman.com

AARON J. NEITLING
 ENGINEER NO. 50508
 PROJECT NAME:
TAFT ROAD RECONSTRUCTION PROJECT
 M40 TO 124TH AVENUE - VALLEY TOWNSHIP
 M-40 TO 124TH AVENUE
 ALLEGAN COUNTY ROAD COMMISSION
 1308 LINCOLN ROAD
 ALLEGAN, MI 49010-9762



NOTE:
 HMA SURFACE TO BE INSTALLED UNDER SEPARATE CONTRACT.
 ALL UTILITIES IN PROJECT LIMITS TO VERIFY LOCATION AND DEPTH. UTILITY TO RELOCATE AS REQUIRED FOR CONSTRUCTION AND PROPOSED WORK.



BENCHMARK #6: 60d NAIL IN W SIDE POWER POLE
 ELEV. = 728.67
 STA. 30+04, 28.5' LT

BENCHMARK #7: 60d NAIL IN W SIDE POWER POLE
 ELEV. = 732.90
 STA. 34+35, 28.5' LT

BENCHMARK #8: 60d NAIL IN E SIDE 4" OAK TREE
 ELEV. = 742.35
 STA. 38+29, 28.2' RT

BORINGS

B-4
 0 - 2" ASPHALT
 2 - 6" GRAVEL
 6 - 60" BROWN SILTY FINE TO MED SAND
 60" END OF BORING

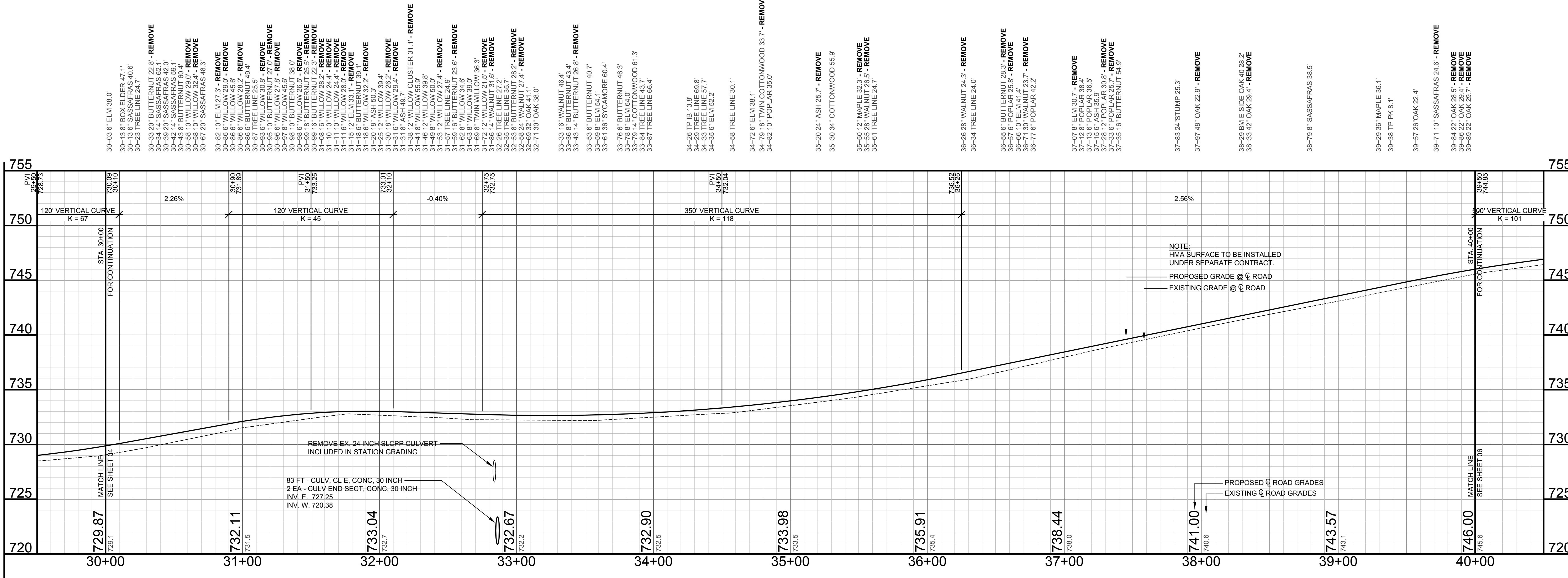
B-5
 0 - 2" ASPHALT
 2 - 11" GRAVEL
 11 - 60" BROWN SILTY SANDY CLAY TR FINE GRAVEL
 60" END OF BORING

LEGEND

REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CLASS II 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, INCLUDED IN STATION GRADING. REGRADE EXISTING DRIVEWAY AS REQUIRED AND SURFACE WITH 6 INCHES OF APPROACH, CL II. 165#/SYD HMA, 13A; AND 165#/SYD HMA, 13A. MATCH EXISTING GRADE AT SAWCUT LINE. (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE).

SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT, INCLUDED IN STATION GRADING. REGRADE EXISTING DRIVEWAY AS REQUIRED AND SURFACE WITH 6 INCHES OF APPROACH, CL II. 165#/SYD HMA, 13A; AND 165#/SYD HMA, 13A. MATCH EXISTING GRADE AT SAWCUT LINE. (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE).



01 6/23/2021
 FINAL PLANS ISSUED AMV

REVISIONS

DATE: JUNE 2021
 SCALE: 1" = 40H, 5V

PLAN AND PROFILE
 STA. 30+00 TO STA. 40+00

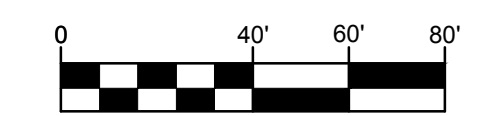
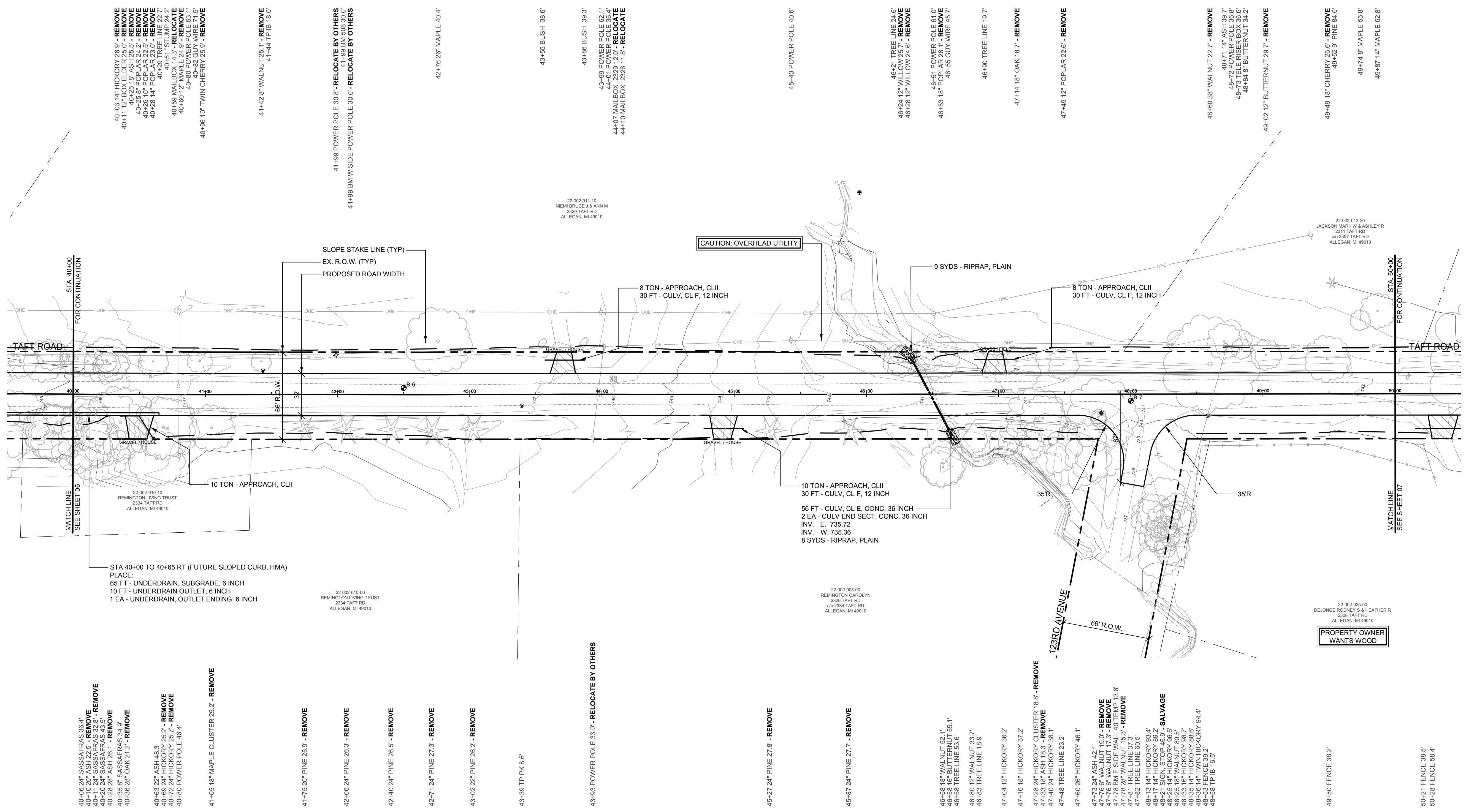
JOB No. 212003
05
 OF 21

QUANTITIES THIS SHEET	
ITEM	QTY.
Subbase, CIP	570 Cyd
Trenching	10 Sta
HMA Base Crushing and Shaping	2,115 Syd
Aggregate Surface Cse	1,165 Ton
Culv End Sect, Conc, 36 inch	2 Ea
Culv, Cl E, Conc, 36 inch	56 Ft
Culv, Cl F, 12 inch	90 Ft
Underdrain, Subbase, 6 inch	65 Ft
Underdrain Outlet, 6 inch	10 Ft
Underdrain, Outlet Ending, 6 inch	1 Ea
Approach, Cl II	36 Ton

AARON J. NEITLING
 ENGINEER NO. 50508
 PROJECT NAME:
**TAFT ROAD
 RECONSTRUCTION
 PROJECT**
 M40 TO 124TH AVENUE -
 VALLEY TOWNSHIP
 M-40 TO 124TH AVENUE

**ALLEGAN COUNTY
 ROAD COMMISSION**
 1308 LINCOLN ROAD
 ALLEGAN, MI 49010-9762

NOTE:
 HMA SURFACE TO BE INSTALLED UNDER SEPARATE CONTRACT.
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BENCHMARK #9: 60d NAIL IN W SIDE POWER POLE
 ELEV. = 748.86
 STA. 41+99, 30.0' LT

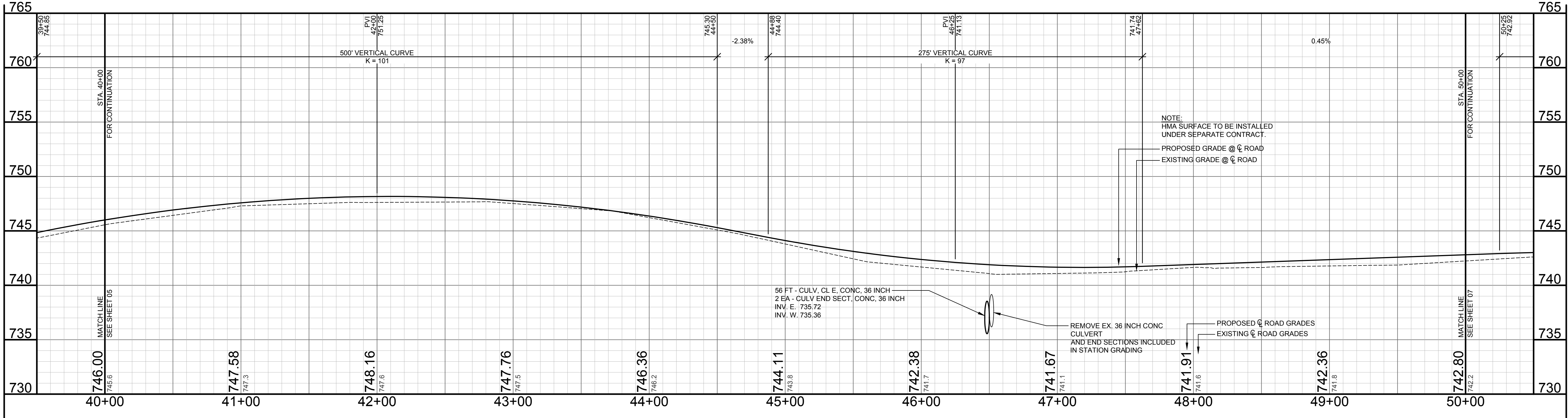
BENCHMARK #10: 60d NAIL IN E SIDE 28" WALNUT TREE
 ELEV. = 742.51
 STA. 47+78, 13.6' RT

BORINGS

B-6	0 - 1 3/4" ASPHALT 1 3/4 - 8" GRAVEL 8 - 60" BROWN SILTY FINE TO MED SAND 60" END OF BORING
B-7	0 - 3" ASPHALT 3 - 11" GRAVEL 11 - 60" BROWN SILTY FINE TO MED SAND 60" END OF BORING

LEGEND

	REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CLASS II 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, INCLUDED IN STATION GRADING. REGRADE EXISTING DRIVEWAY AS REQUIRED AND SURFACE WITH 6 INCHES OF APPROACH, CL II. 165#/SYD HMA, 13A; AND 165#/SYD HMA, 13A. MATCH EXISTING GRADE AT SAWCUT LINE. (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE).
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QUANTITIES THIS SHEET

ITEM	QTY.
Subbase, CIP	580 Cyd
Trenching	10 Sta
HMA Base Crushing and Shaping	1,900 Syd
Aggregate Surface Cse	1,110 Ton
Culv End Sect, Conc, 18 inch	2 Ea
Culv, Cl E, Conc, 18 inch	40 Ft
Culv, Cl F, 12 inch	260 Ft
Underdrain, Subbase, 6 inch	590 Ft
Underdrain Outlet, 6 inch	20 Ft
Underdrain, Outlet Ending, 6 inch	2 Ea
Approach, Cl II	100 Ton

W+
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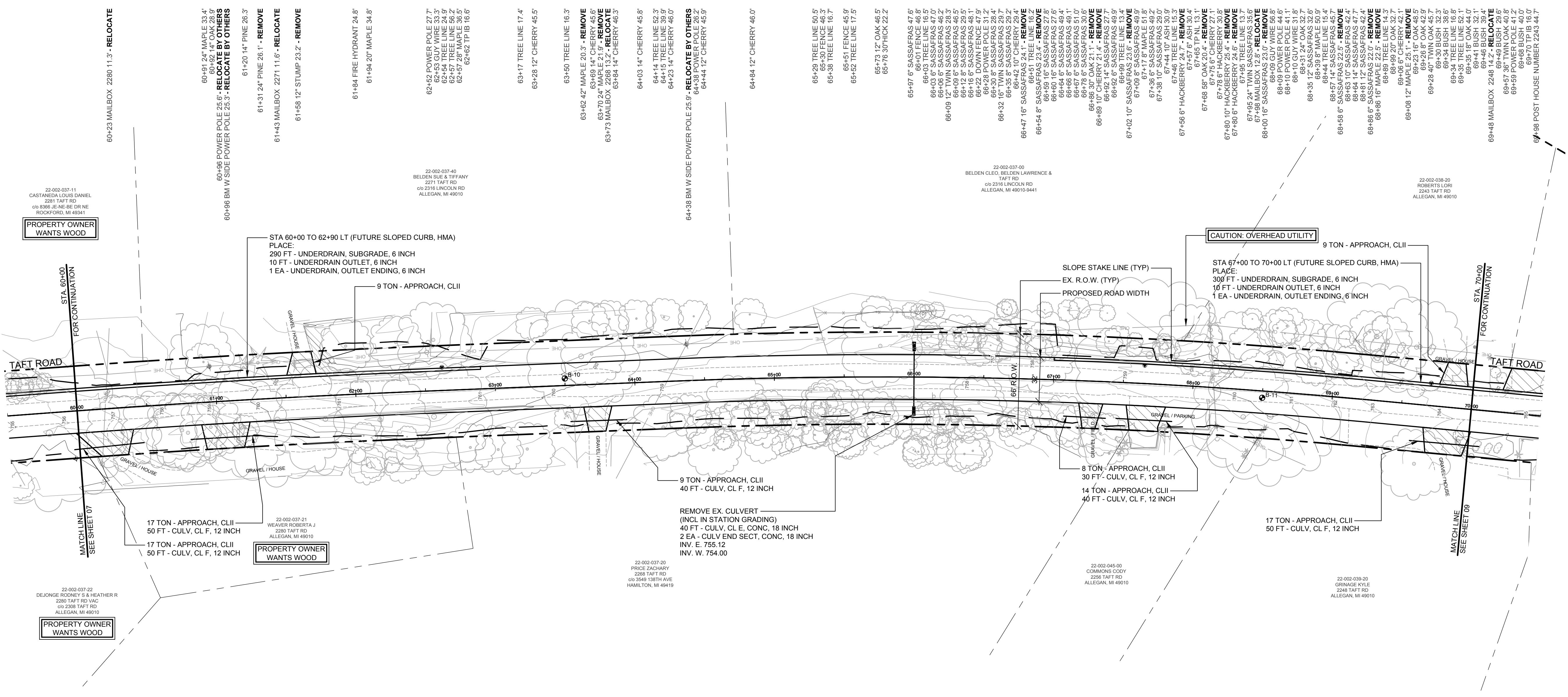
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AARON J. NEITLING
ENGINEER NO. 50508

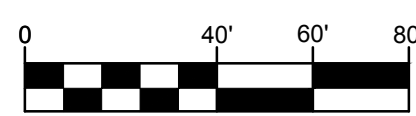
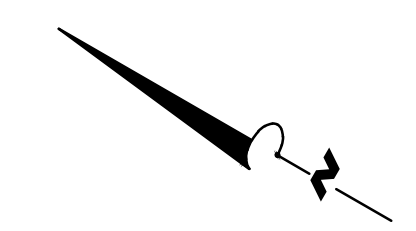
PROJECT NAME:
**TAFT ROAD
RECONSTRUCTION
PROJECT**
M40 TO 124TH AVENUE -
VALLEY TOWNSHIP
M-40 TO 124TH AVENUE

**ALLEGAN COUNTY
ROAD COMMISSION**
1308 LINCOLN ROAD
ALLEGAN, MI 49010-9762



NOTE:
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- BENCHMARK #13: 60d NAIL IN W SIDE POWER POLE
ELEV. = 761.14
STA. 60+96, 25.3' LT
- BENCHMARK #14: 60d NAIL IN W SIDE POWER POLE
ELEV. = 761.68
STA. 64+38, 26.0' LT
- BENCHMARK #15: 60d NAIL IN E SIDE POWER POLE
ELEV. = 757.57
STA. 68+19, 27.20' RT

BORINGS

B-10
0 - 1 1/2" ASPHALT
1 1/2 - 4" GRAVEL
4 - 60" BROWN FINE TO MED SAND
60" END OF BORING

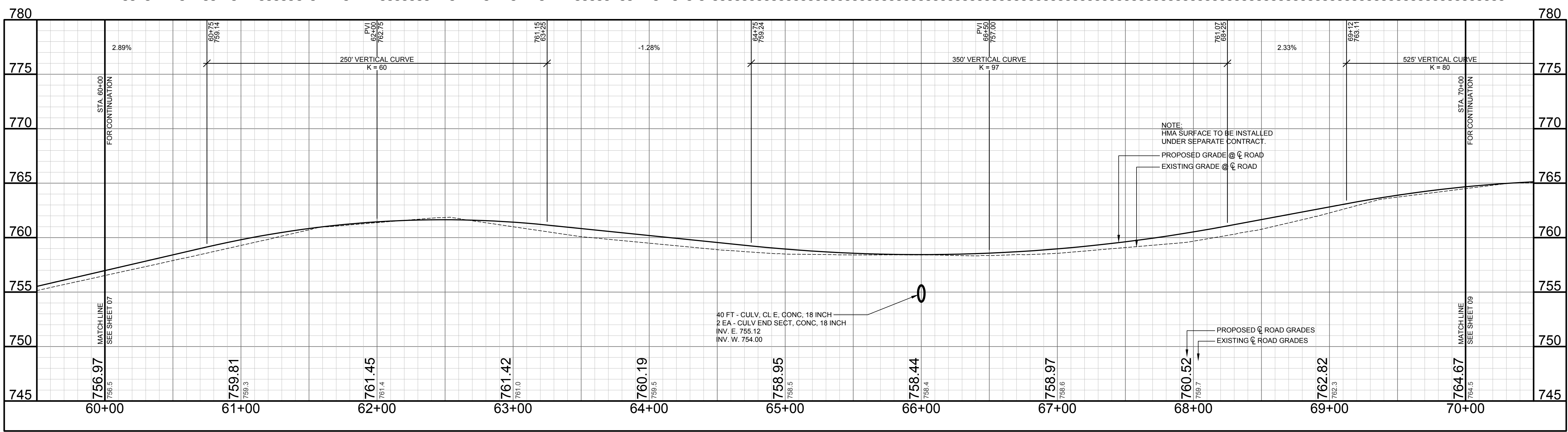
B-11
0 - 1 1/2" ASPHALT
1 1/2 - 6" GRAVEL
6 - 60" BROWN FINE TO MED SAND
60" END OF BORING

LEGEND

REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CLASS II A DEPTH OF 6". AS DIRECTED BY THE ENGINEER IN THE FIELD, PAID FOR AS APPROACH, CL II BY THE TON.

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11/22/2021
FINAL PLANS ISSUED AMV

REVISIONS

DATE: JUNE 2021
SCALE: 1" = 40H, 5V

PLAN AND PROFILE
STA. 60+00 TO STA. 70+00

JOB No. 212003
08
OF 21

QUANTITIES THIS SHEET	
ITEM	QTY.
Subbase, CIP	1,090 Cyd
Trenching	4 Sta
Excavation, Peat	1,825 Cyd
Backfill, Swamp	1,825 Cyd
HMA Base Crushing and Shaping	2,080 Syd
Aggregate Surface Cse	1,220 Ton
Culv End Sect, Conc, 18 inch	2 Ea
Culv End Sect, Conc, 24 inch	2 Ea
Culv, Cl E, Conc, 18 inch	64 Ft
Culv, Cl E, Conc, 24 inch	56 Ft
Culv, Cl F, 12 inch	80 Ft
Underdrain, Subbase, 6 inch	390 Ft
Underdrain Outlet, 6 inch	20 Ft
Underdrain, Outlet Ending, 6 inch	2 Ea
Approach, Cl II	53 Ton

W+
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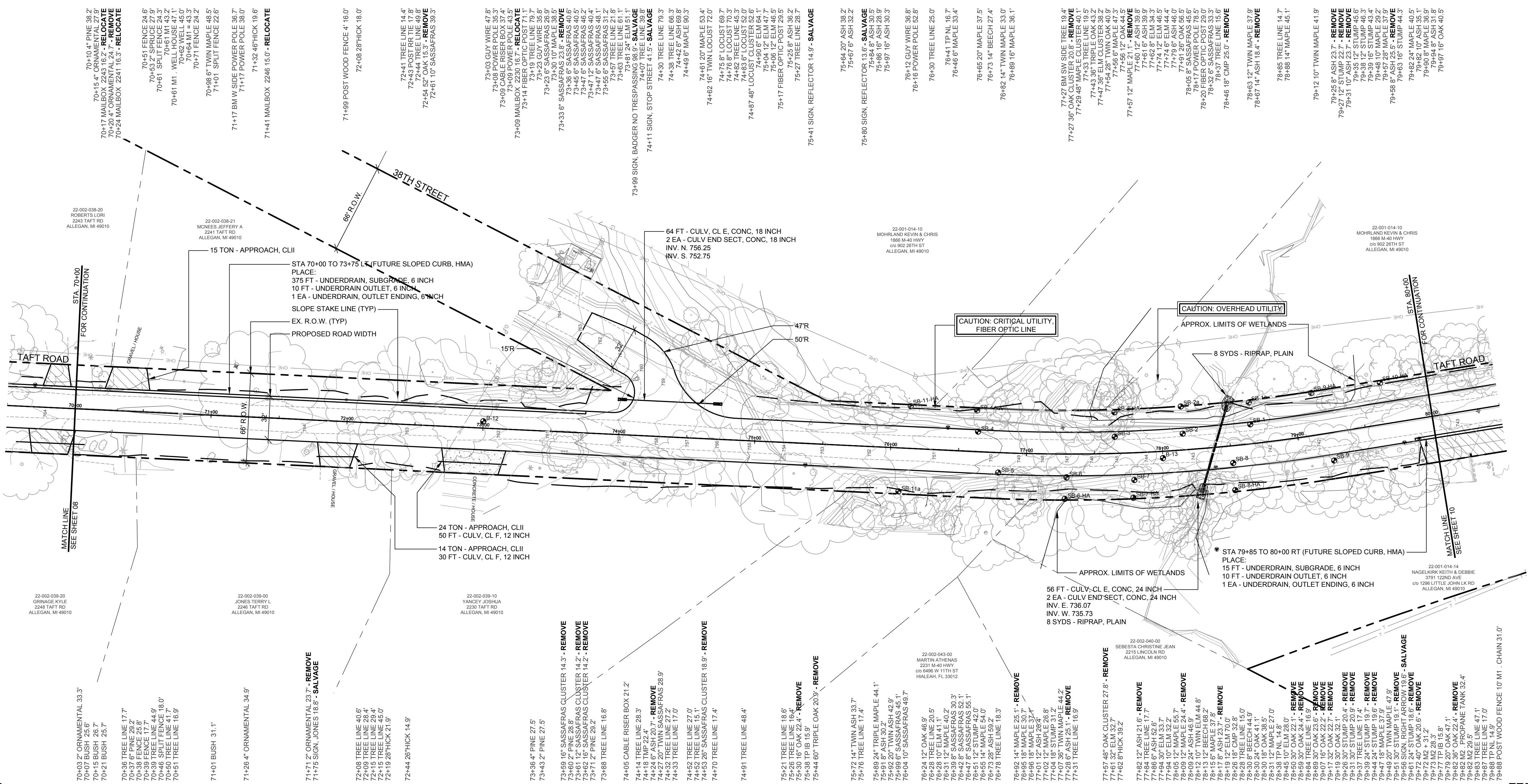
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AARON J. NEITLING
ENGINEER NO. 50508

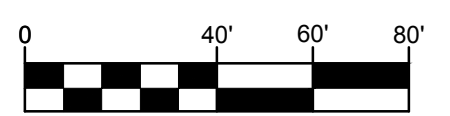
PROJECT NAME:
TAFT ROAD RECONSTRUCTION PROJECT
M40 TO 124TH AVENUE - VALLEY TOWNSHIP
M-40 TO 124TH AVENUE

ALLEGAN COUNTY ROAD COMMISSION
1308 LINCOLN ROAD
ALLEGAN, MI 49010-9762



NOTE:
HMA SURFACE TO BE INSTALLED UNDER SEPARATE CONTRACT.

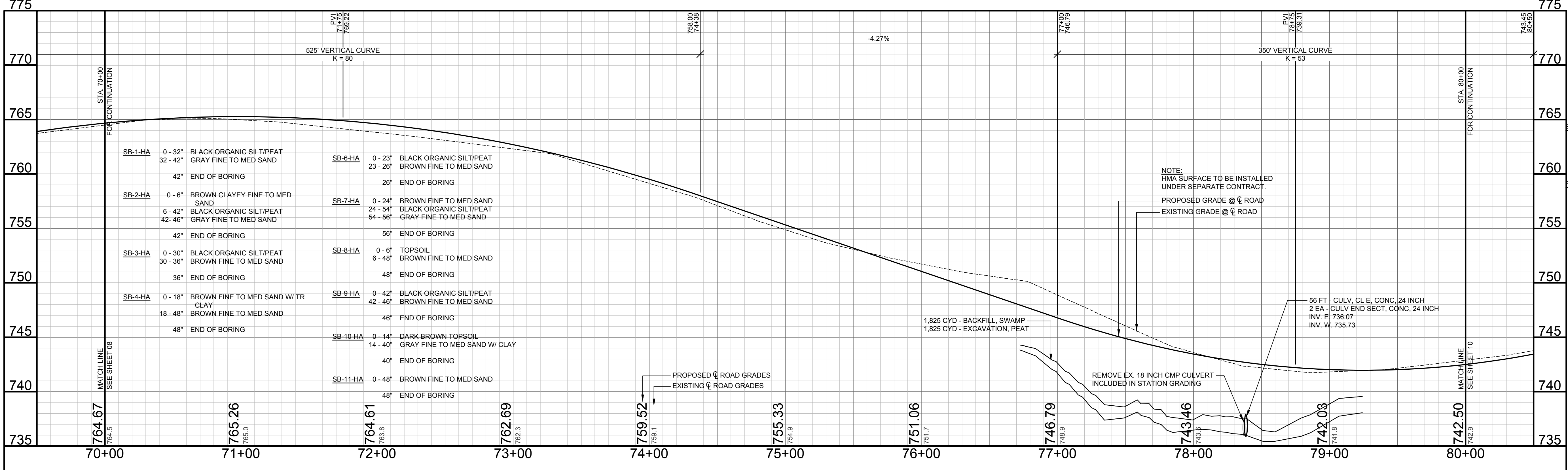
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BENCHMARK #16: 60d NAIL IN W SIDE POWER POLE ELEV. = 765.11 STA. 71+17, 36.7' LT
BENCHMARK #17: X IN CONCRETE ELEV. = 764.87 STA. 73+74, 119.5' LT
BENCHMARK #18: 60d NAIL IN SW SIDE TREE ELEV. = 746.66 STA. 77+27, 19.4' LT

BORINGS
0 - 1 1/2" ASPHALT
1 1/2 - 7 1/2" GRAVEL
7 1/2 - 60" BROWN FINE TO MED SAND
60" END OF BORING
3-12
0 - 3 1/2" ASPHALT
3 1/2 - 9" GRAVEL
9 - 120" BROWN FINE TO MED SAND
120" END OF BORING
3-13

LEGEND
REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CLASS II 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, INCLUDED IN STATION GRADING. REGRADE EXISTING DRIVEWAY AS REQUIRED AND SURFACE WITH 6 INCHES OF APPROACH, CL II. 165#SYD HMA, 13A; AND 165#SYD HMA, 13A. MATCH EXISTING GRADE AT SAWCUT LINE. (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE).
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01 6/23/2021
FINAL PLANS ISSUED AMV

REVISIONS

DATE: JUNE 2021
SCALE: 1" = 40H, 5V

PLAN AND PROFILE
STA. 70+00 TO STA. 80+00

JOB No. 212003
09
OF 21

QUANTITIES THIS SHEET	
ITEM	QTY.
Subbase, CIP	565 Cyd
Trenching	8 Sta
HMA Base Crushing and Shaping	1,875 Syd
Aggregate Surface Cse	1,020 Ton
Culv, Cl F, 12 inch	165 Ft
Underdrain, Subbase, 6 inch	425 Ft
Underdrain Outlet, 6 inch	30 Ft
Underdrain, Outlet Ending, 6 inch	3 Ea
Approach, Cl II	116 Ton

W+
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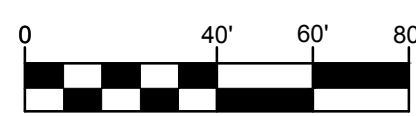
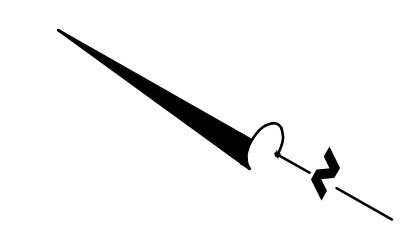
AARON J. NEITLING
ENGINEER NO. 50508

PROJECT NAME:
TAFT ROAD RECONSTRUCTION PROJECT
M40 TO 124TH AVENUE - VALLEY TOWNSHIP
M-40 TO 124TH AVENUE

ALLEGAN COUNTY ROAD COMMISSION
1308 LINCOLN ROAD
ALLEGAN, MI 49010-9762

NOTE:
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BENCHMARK #19: X IN CONCRETE ELEV. = 743.94 STA. 80+65, 30.7' RT
BENCHMARK #20: 604 NAIL IN W SIDE POWER POLE ELEV. = 759.02 STA. 85+45, 48.1' LT
BENCHMARK #21: 604 NAIL IN S SIDE POWER POLE ELEV. = 756.59 STA. 87+98, 38.2' RT

BORINGS

B-14 0 - 1 1/2" ASPHALT
1 1/2 - 5" GRAVEL
5 - 60" BROWN FINE TO MED SAND
60" END OF BORING

LEGEND

REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CLASS II 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, INCLUDED IN STATION GRADING. REGRADE EXISTING DRIVEWAY AS REQUIRED AND SURFACE WITH 6 INCHES OF APPROACH, CL II, 165#/SYD HMA, 13A; AND 165#/SYD HMA, 13A. MATCH EXISTING GRADE AT SAWCUT LINE. (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE).

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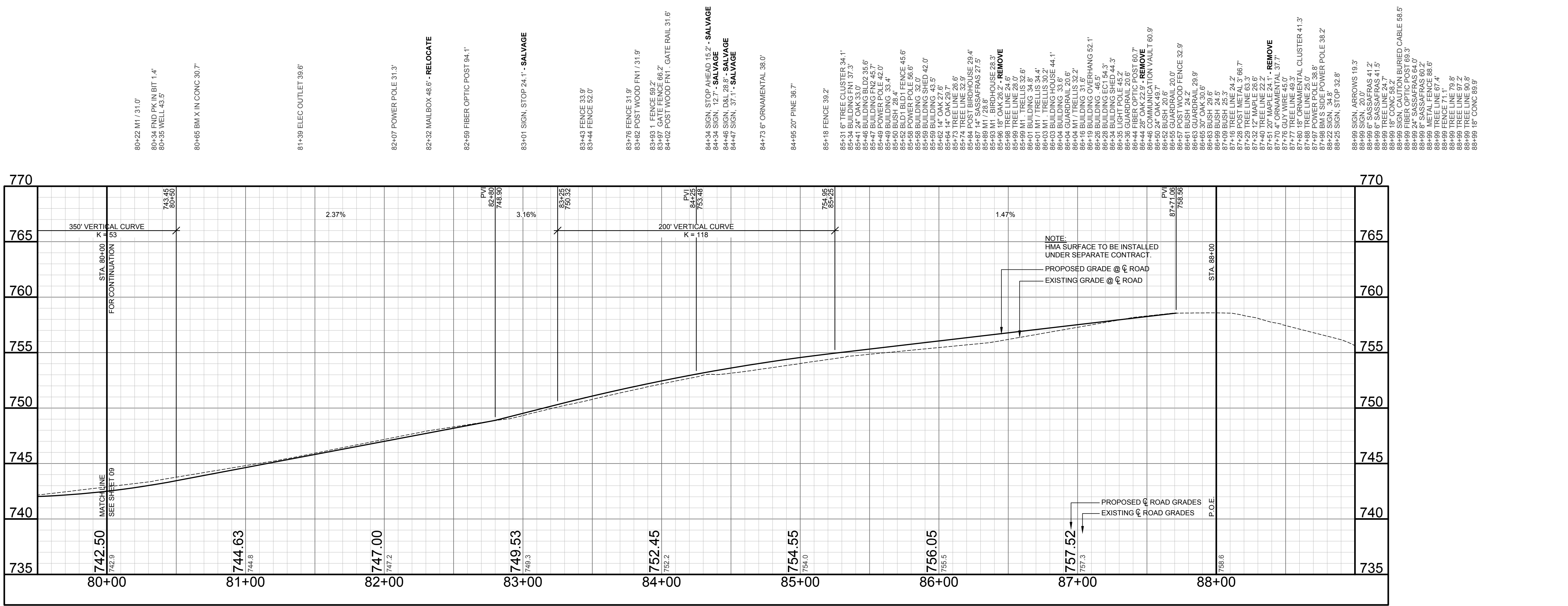
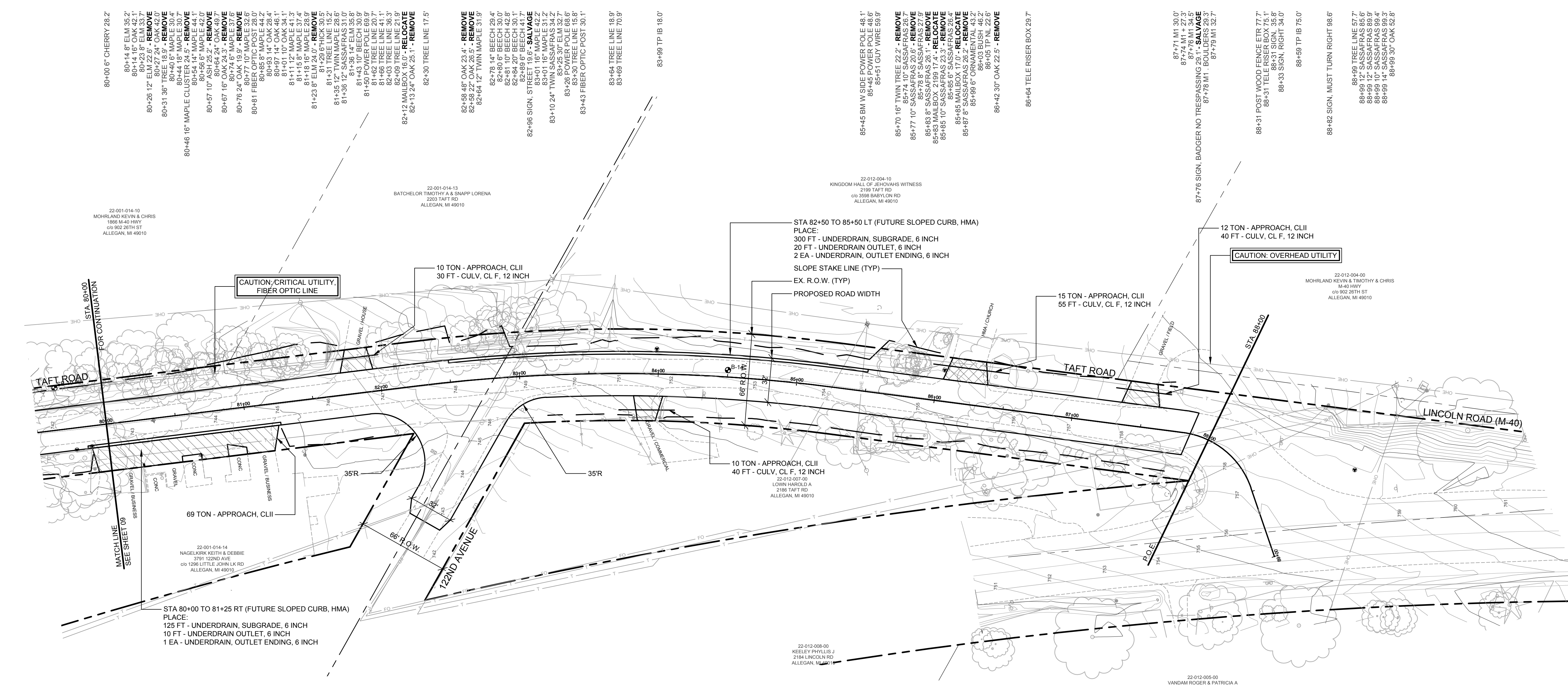
01 6/23/2021 AMV
FINAL PLANS ISSUED

REVISIONS

DATE: JUNE 2021
SCALE: 1" = 40H, 5V

PLAN AND PROFILE
STA. 80+00 TO STA. 88+00

JOB No. 212003
10
OF 21



SOIL EROSION & SEDIMENTATION CONTROL NOTES

- ALL CONSTRUCTION METHODS SHALL BE DONE IN COMPLIANCE WITH THE MICHIGAN SOIL EROSION AND SEDIMENTATION CONTROL ACT. THE OWNER SHALL BE RESPONSIBLE FOR OBTAINING A "SOIL EROSION PERMIT" FROM THE COUNTY AND A "PERMIT BY RULE/NOTICE OF COVERAGE" FROM THE MDEQ PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL 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 SHALL 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 SHALL REMAIN IN PLACE UNTIL REMOVAL IS REQUIRED FOR FINAL CLEAN UP AND APPROVAL.
- GEOTEXTILE SILT FENCE SHALL 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 SHALL BE INSTALLED ON CREEK BANKS IMMEDIATELY AFTER CONSTRUCTION TO PREVENT EROSION.
- MAINTENANCE, CLEANING, AND REMOVAL OF THE VARIOUS SEDIMENT CONTROL MEASURES SHALL BE INCLUDED IN THE VARIOUS EROSION CONTROL ITEMS.

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.

- 3P DENOTES PERMANENT SEEDING. ALL DISTURBED AREAS NOT PAVED OR GRAVELED SHALL BE RESTORED. PLACE TOPSOIL SURFACE, SALV. 3 INCH. MDOT SEEDING, MIXTURE TUF APPLIED AT A RATE OF 176 LB/ACRE, FERTILIZER, CHEMICAL NUTRIENT, CL A APPLIED AT A RATE OF 228 LB/ACRE; MULCH AT A RATE OF 2 TON/ACRE AND MULCH ANCHORING. (APPLIES TO ENTIRE PROJECT)
- 7P DENOTES RIPRAP, PLAIN. INSTALL RIPRAP AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER IN THE FIELD.
- 26T DENOTES TEMPORARY SILT FENCE. SILT FENCE SHALL BE INSTALLED AT CREEK CROSSINGS, ADJACENT TO ALL WETLANDS AND SURFACE WATERS, AND OTHER LOCATIONS AS DIRECTED BY THE ENGINEER. EACH SILT FENCE SHALL BE INSTALLED GENERALLY ALONG THE SAME CONTOUR ELEVATION.
- 26 DENOTES MULCHING AND MULCH ANCHORING
- 33 HV DENOTES HIGH VELOCITY MULCH BLANKETS FOR USE 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.
- 37 DENOTES CHECK DAM. INSTALL CHECK DAMS AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER IN THE FIELD.

QUANTITIES THIS SHEET	
ITEM	QTY.
Riprap, Plain	20 Syd
Riprap, Heavy	30 Syd
Slope Restoration, Type A	1,730 Syd
Slope Restoration, Type C	8,675 Syd
Erosion Control, Check Dam, Stone	20 Ft
Erosion Control, Silt Fence	350 Ft

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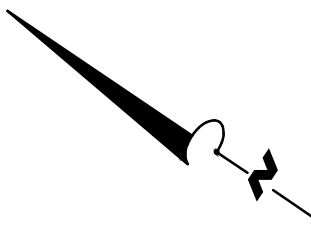
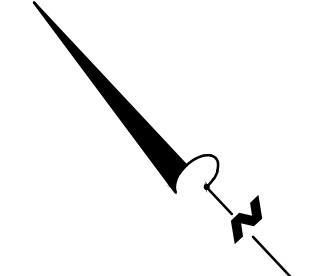
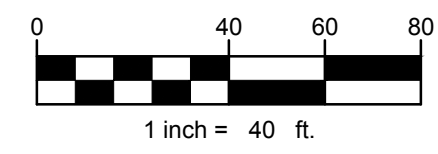
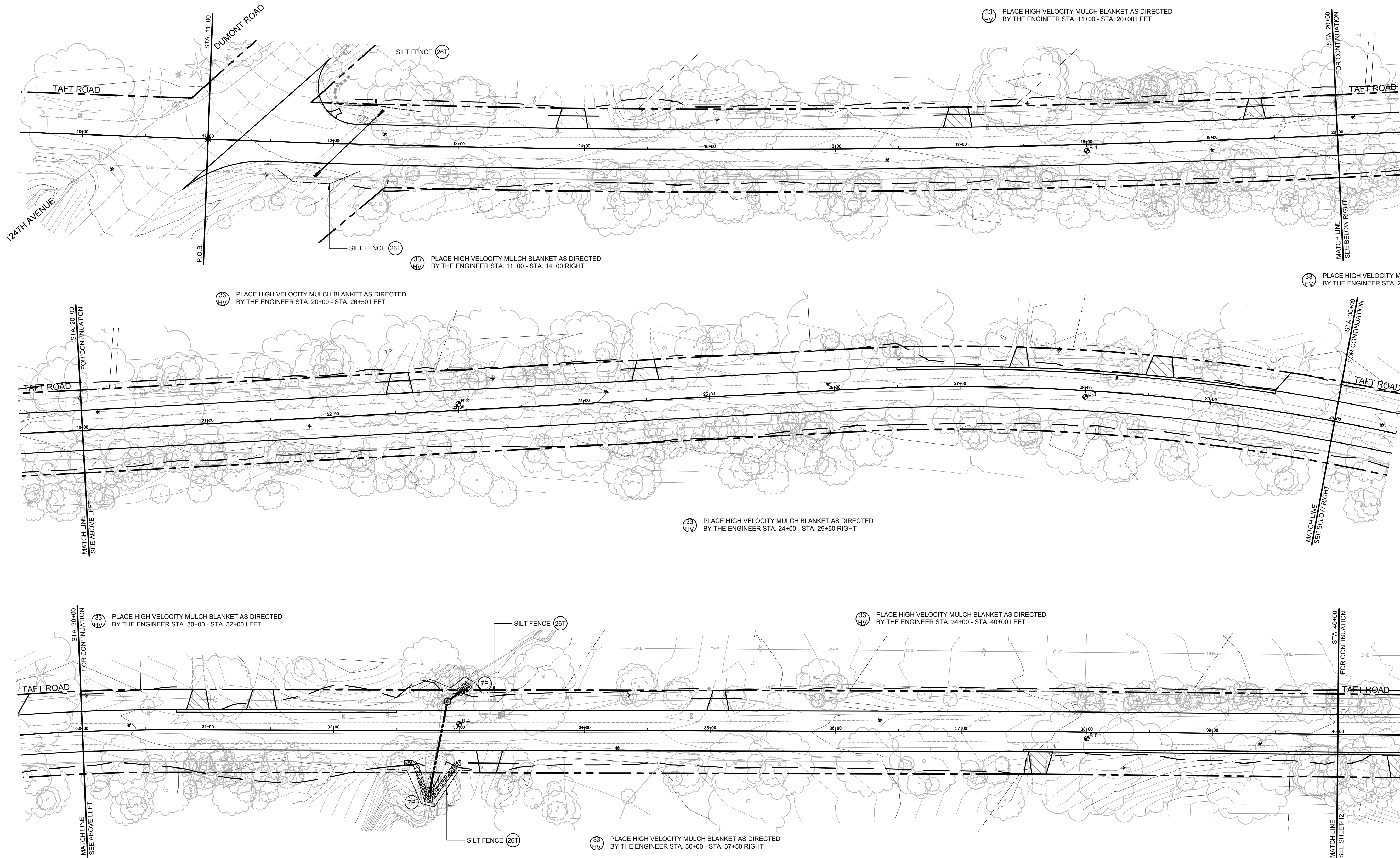
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 M-40 TO 124TH AVENUE

ALLEGAN COUNTY ROAD COMMISSION
 1308 LINCOLN ROAD
 ALLEGAN, MI 49010-9762

01/6/23/2021
 FINAL PLANS ISSUED AMV

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 DATE: JUNE 2021
 SCALE: 1" = 40'

SESC PLANS
 STA. 11+00 TO STA. 40+00

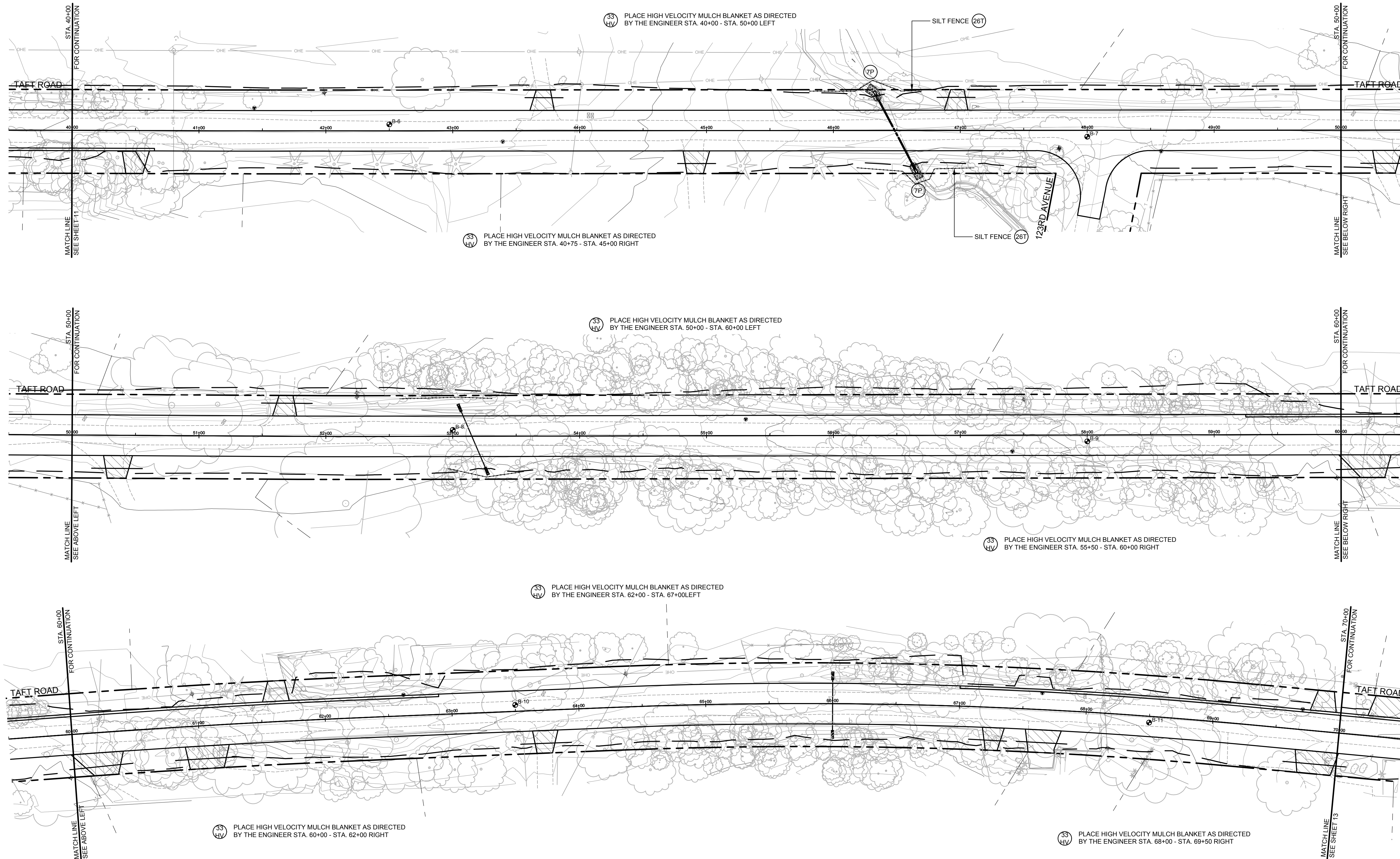


SOIL EROSION & SEDIMENTATION CONTROL NOTES

- ALL CONSTRUCTION METHODS SHALL BE DONE IN COMPLIANCE WITH THE MICHIGAN SOIL EROSION AND SEDIMENTATION CONTROL ACT. THE OWNER SHALL BE RESPONSIBLE FOR OBTAINING A "SOIL EROSION PERMIT" FROM THE COUNTY AND A "PERMIT BY RULE/NOTICE OF COVERAGE" FROM THE MDEQ PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL 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 SHALL 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 SHALL REMAIN IN PLACE UNTIL REMOVAL IS REQUIRED FOR FINAL CLEAN UP AND APPROVAL.
- GEOTEXTILE SILT FENCE SHALL 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 SHALL BE INSTALLED ON CREEK BANKS IMMEDIATELY AFTER CONSTRUCTION TO PREVENT EROSION.
- MAINTENANCE, CLEANING, AND REMOVAL OF THE VARIOUS SEDIMENT CONTROL MEASURES SHALL BE INCLUDED IN THE VARIOUS EROSION CONTROL ITEMS.

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.

- 3P DENOTES PERMANENT SEEDING. ALL DISTURBED AREAS NOT PAVED OR GRAVELED SHALL BE RESTORED. PLACE TOPSOIL SURFACE, SALV. 3 INCH. MDOT SEEDING, MIXTURE TUF APPLIED AT A RATE OF 176 LB/ACRE, FERTILIZER, CHEMICAL NUTRIENT, CL A APPLIED AT A RATE OF 228 LB/ACRE; MULCH AT A RATE OF 2 TON/ACRE AND MULCH ANCHORING. (APPLIES TO ENTIRE PROJECT)
- 7P DENOTES RIPRAP, PLAIN. INSTALL RIPRAP AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER IN THE FIELD.
- 26T DENOTES TEMPORARY SILT FENCE. SILT FENCE SHALL BE INSTALLED AT CREEK CROSSINGS, ADJACENT TO ALL WETLANDS AND SURFACE WATERS, AND OTHER LOCATIONS AS DIRECTED BY THE ENGINEER. EACH SILT FENCE SHALL BE INSTALLED GENERALLY ALONG THE SAME CONTOUR ELEVATION.
- 26 DENOTES MULCHING AND MULCH ANCHORING
- 33 HV DENOTES HIGH VELOCITY MULCH BLANKETS FOR USE 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.
- 37 DENOTES CHECK DAM. INSTALL CHECK DAMS AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER IN THE FIELD.

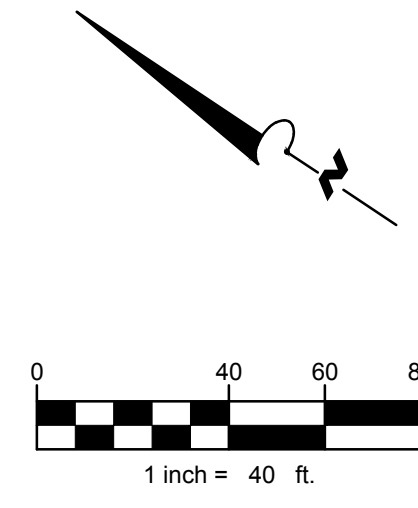


QUANTITIES THIS SHEET

ITEM	QTY.
Riprap, Plain	20 Syd
Slope Restoration, Type A	2,800 Syd
Slope Restoration, Type C	8,025 Syd
Erosion Control, Check Dam, Stone	40 Ft
Erosion Control, Silt Fence	300 Ft

WIGHTMAN
 BENTON HARBOR
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 KALAMAZOO
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 ALLEGAN
 269.673.8465
 ROYAL OAK
 248.791.1371
 www.gowightman.com

AARON J. NEITLING
 ENGINEER NO. 50508
Taft Road Reconstruction Project
 M40 TO 124TH AVENUE - VALLEY TOWNSHIP
 M-40 TO 124TH AVENUE
ALLEGAN COUNTY ROAD COMMISSION
 1308 LINCOLN ROAD
 ALLEGAN, MI 49010-9762



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SESC PLANS
 STA. 40+00 TO STA. 70+00

SOIL EROSION & SEDIMENTATION CONTROL NOTES

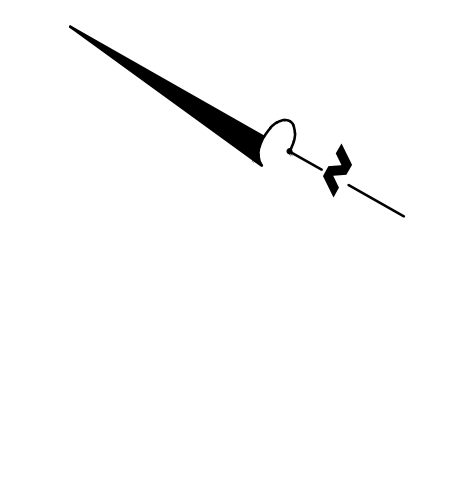
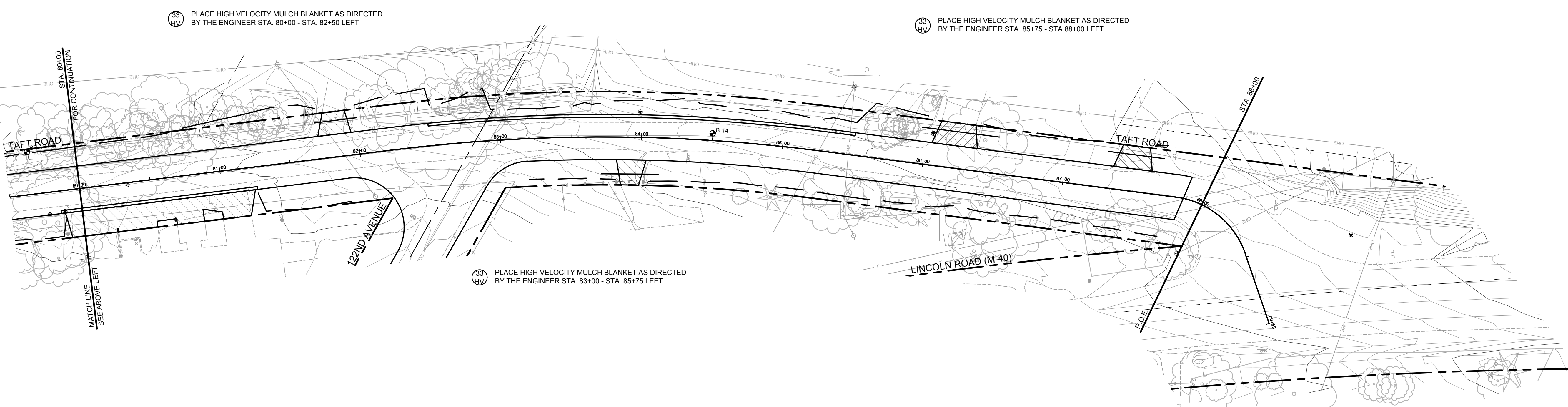
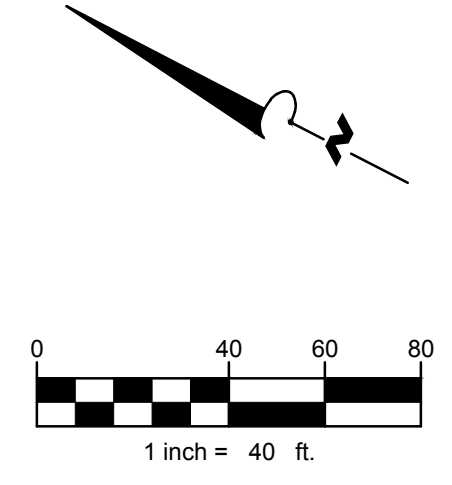
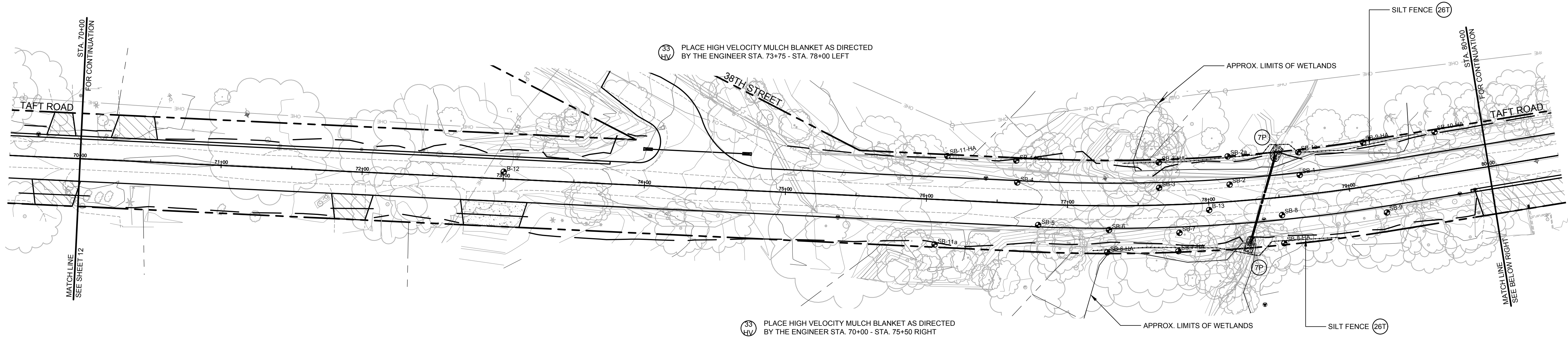
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QUANTITIES THIS SHEET	
ITEM	QTY.
Riprap, Plain	20 Syd
Slope Restoration, Type A	2,650 Syd
Slope Restoration, Type C	3,900 Syd
Erosion Control, Silt Fence	450 Ft

W+
WIGHTMAN
BENTON HARBOR
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ALLEGAN
269.673.8465
ROYAL OAK
248.791.1371
www.gowightman.com



AARON J. NEITLING
ENGINEER NO. 50508
PROJECT NAME:
TAFT ROAD RECONSTRUCTION PROJECT
M40 TO 124TH AVENUE - VALLEY TOWNSHIP
M-40 TO 124TH AVENUE
ALLEGAN COUNTY ROAD COMMISSION
1308 LINCOLN ROAD
ALLEGAN, MI 49010-9762

01 6/23/2021 AMV
FINAL PLANS ISSUED
REVISIONS
DATE: JUNE 2021
SCALE: 1" = 40'

SESC PLANS
STA. 70+00 TO STA. 88+00



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ALLEGAN
269.673.8465
ROYAL OAK
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AARON J. NEITLING
ENGINEER NO. 50508

PROJECT NAME:
Taft Road Reconstruction Project
M40 TO 124TH AVENUE -
VALLEY TOWNSHIP
M-40 TO 124TH AVENUE

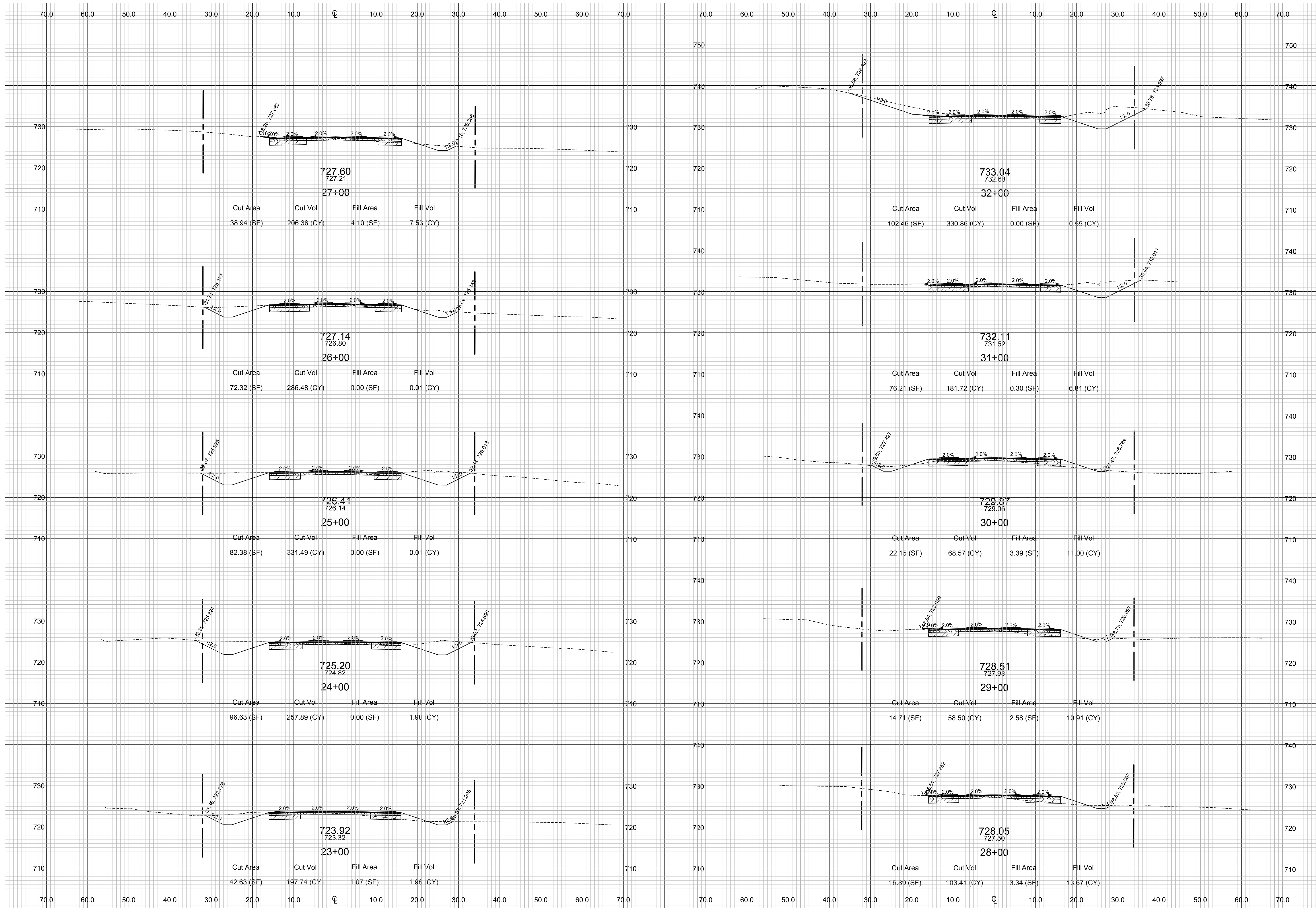
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1308 LINCOLN ROAD
ALLEGAN, MI 49010-9762

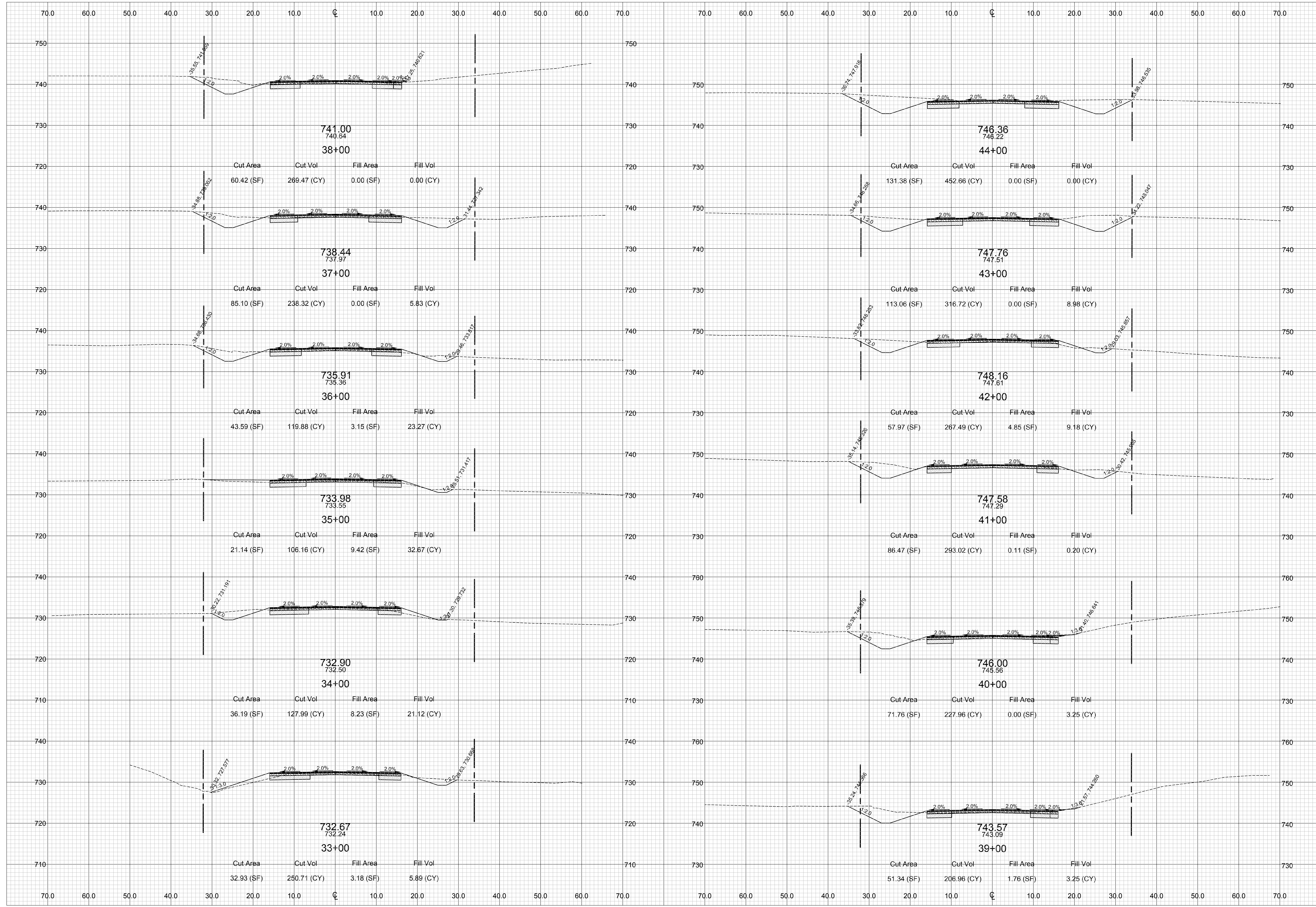
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FINAL PLANS ISSUED

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CROSS SECTIONS
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JOB No. 212003







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AARON J. NEITLING
ENGINEER NO. 50508

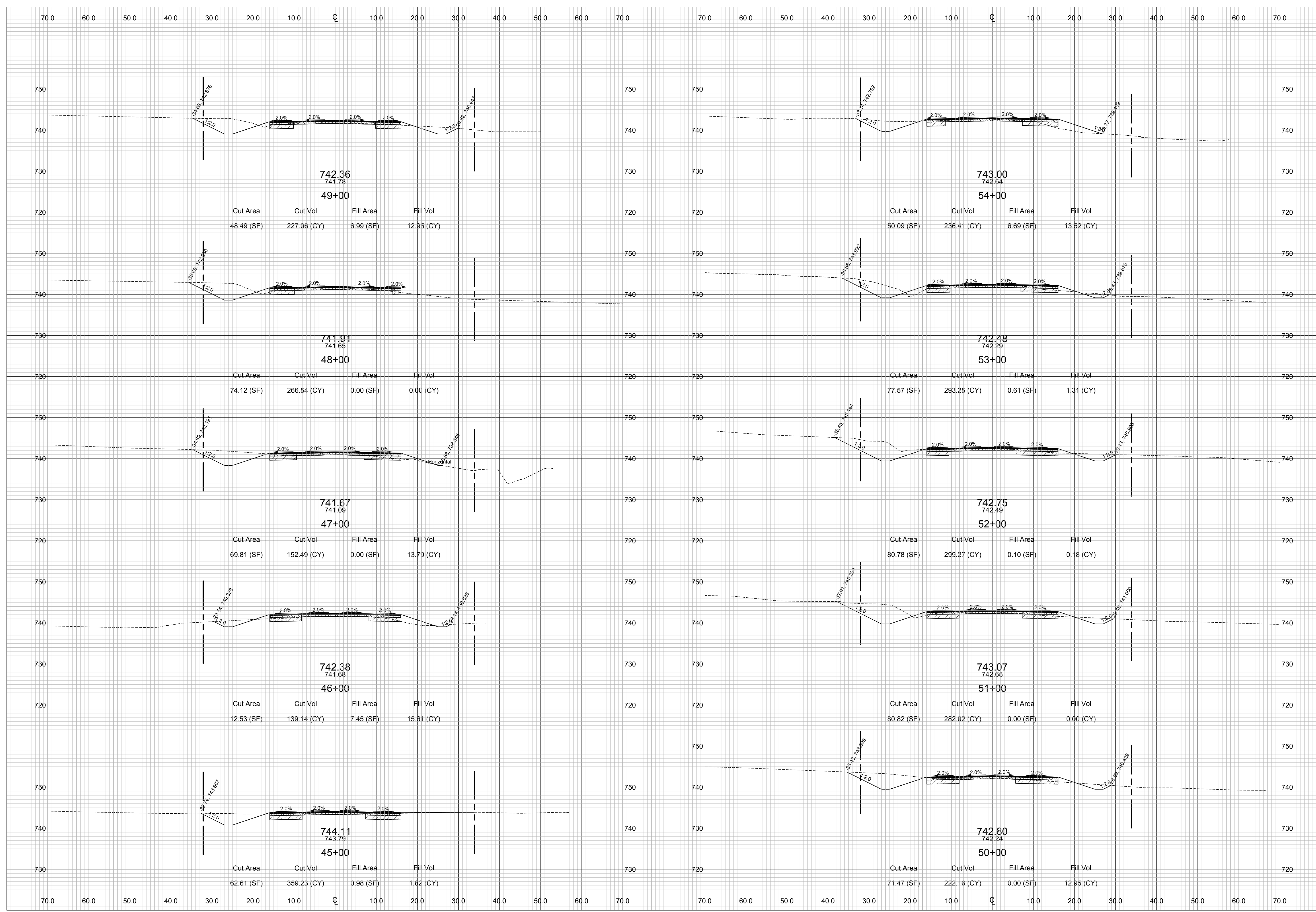
PROJECT NAME:
**TAFT ROAD
RECONSTRUCTION
PROJECT**
M40 TO 124TH AVENUE -
VALLEY TOWNSHIP
M-40 TO 124TH AVENUE

**ALLEGAN COUNTY
ROAD COMMISSION**
1308 LINCOLN ROAD
ALLEGAN, MI 49010-9762

01/6/23/2021 AMV
FINAL PLANS ISSUED

REVISIONS
1. DATE: JUNE 2021
2. SCALE: 1" = 10'

CROSS SECTIONS
STA. 45+00 TO STA. 54+00





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AARON J. NEITLING

ENGINEER NO. 50508

PROJECT NAME:

Taft Road Reconstruction Project

M40 to 124th Avenue -

Valley Township

M-40 to 124th Avenue

ALLEGAN COUNTY

ROAD COMMISSION

1308 LINCOLN ROAD

ALLEGAN, MI 49010-9762

01/6/23/2021 AMV

FINAL PLANS ISSUED

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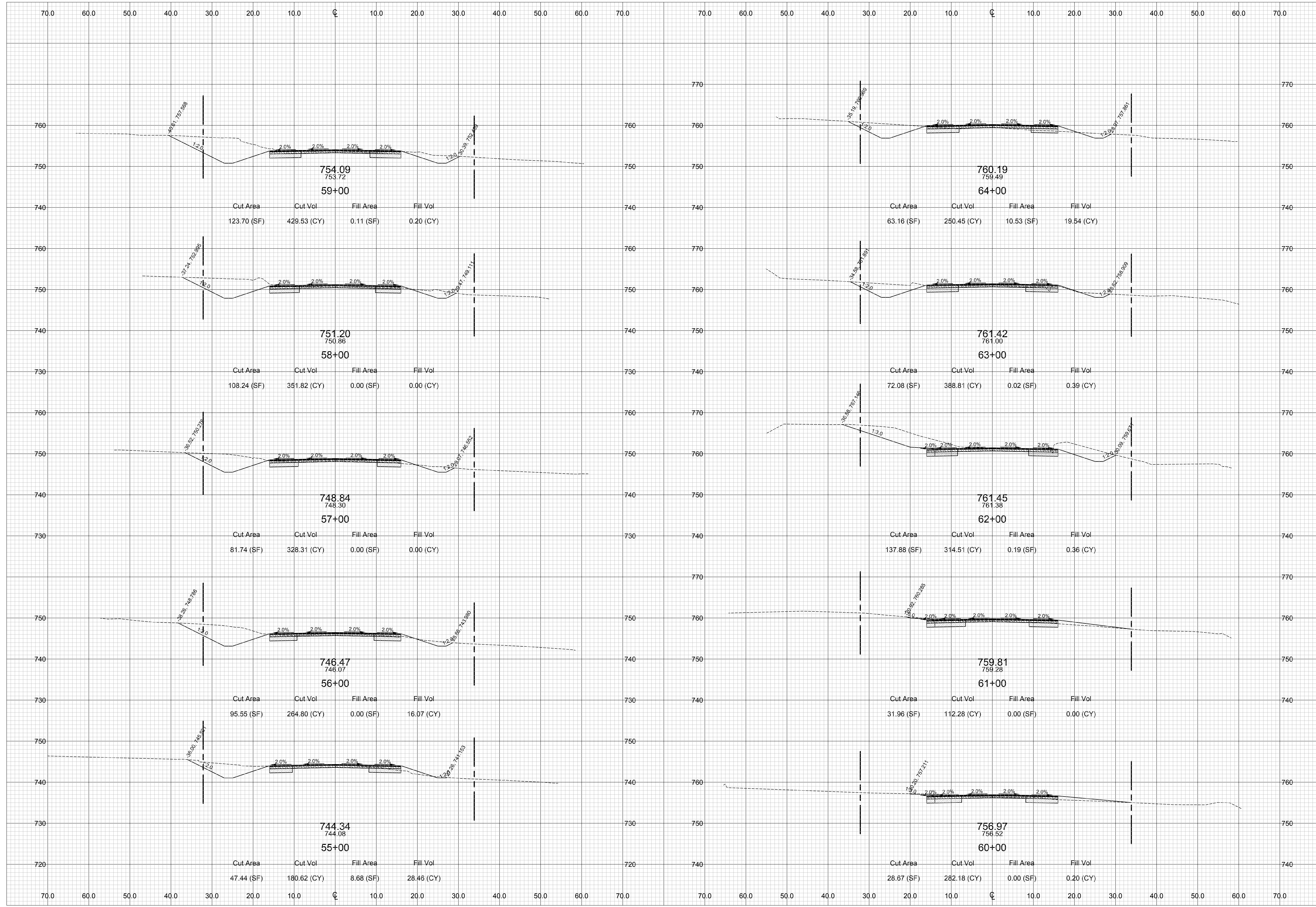
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JOB No. 212003

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Taft Road Reconstruction Project
M40 TO 124TH AVENUE -
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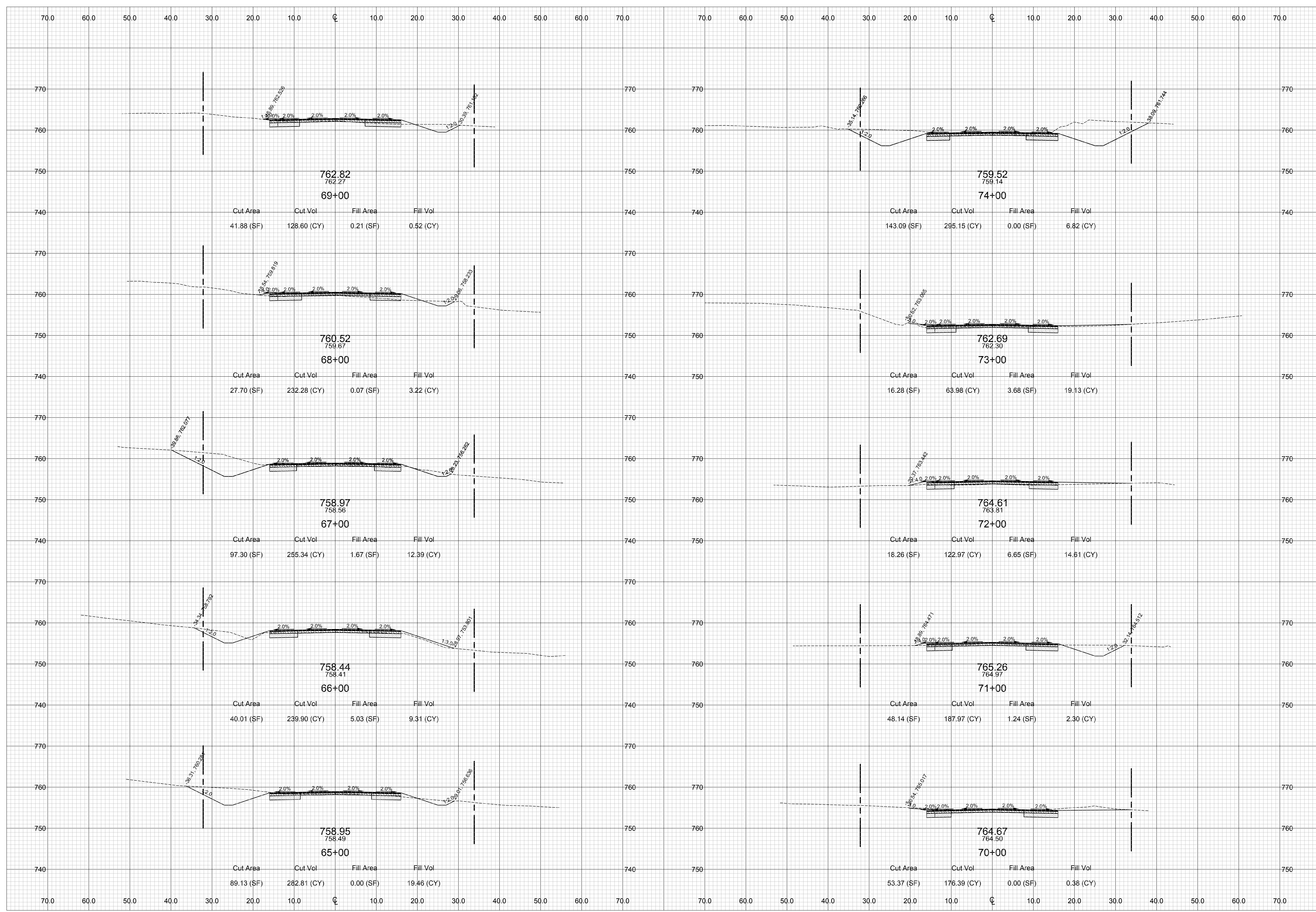
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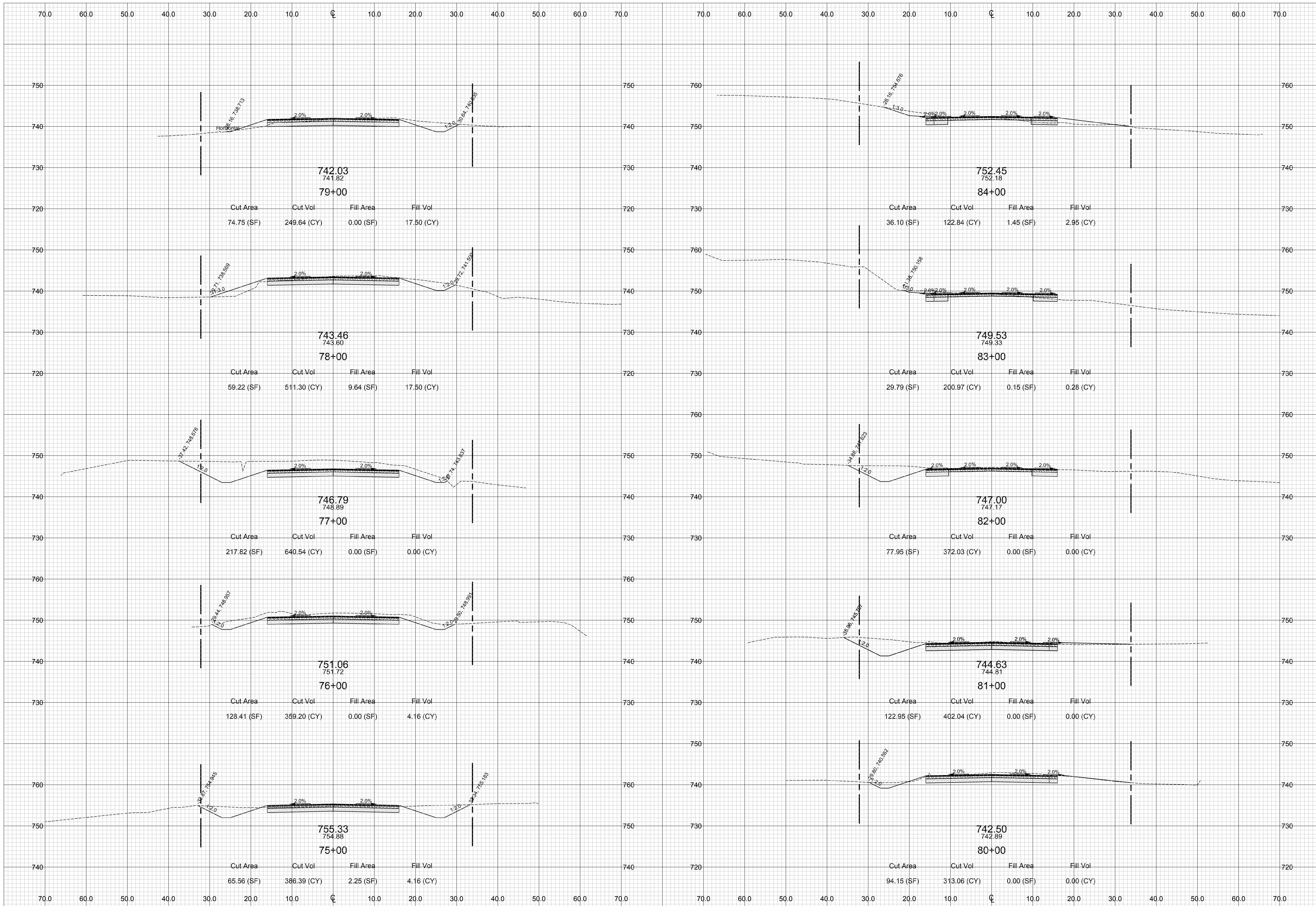
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M40 TO 124TH AVENUE -
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