ITEM	UNIT	TOTAL	DESCRIPTION
			ROADWAY
201	LUMP SUM	1	CLEARING AND GRUBBING
202	EACH	16	HEADWALL REMOVED
202	SY	26,474	PAVEMENT REMOVED, AS PER PLAN
202	SY	346	CONCRETE MEDIAN REMOVED
202	FOOT	492	CURB REMOVED
202	FOOT	826	PIPE REMOVED
202	FOOT	2,142	GUARDRAIL REMOVED
202	EACH	8	ANCHOR ASSEMBLY REMOVED
202	EACH	8	BRIDGE TERMINAL ASSEMBLY REMOVED
202	EACH	7	CATCH BASIN OR INLET REMOVED
203	CY	6,825	EXCAVATION
203	CY	6,003	EMBANKMENT
204	SY	12,558	SUBGRADE COMPACTION
204	CY	4,000	EXCAVATION OF SUBGRADE
204	CY	4,000	GRANULAR MATERIAL, TYPE B
204	HOUR	7	PROOF ROLLING
606	FOOT	200	GUARDRAIL, TYPE MGS WITH LONG POSTS
606	EACH	8	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1
			EROSION CONTROL
601	CY	2	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER
601	SY	17	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT
659	EACH	2	SOIL ANALYSIS TEST
659	CY	5,499	TOPSOIL
659	SY	48,819	SEEDING AND MULCHING
659	SY	2,441	REPAIR SEEDING AND MULCHING
659	SY	2,441	INTER-SEEDING
659	TON	6.59	COMMERCIAL FERTILIZER
659	ACRE	10.09	LIME
659	MGAL	271	WATER
832	LUMP SUM	1	STORM WATER POLLUTION PREVENTION PLAN
832	EACH	75,000	EROSION CONTROL
			DRAINAGE
602	CY	1.6	CONCRETE MASONRY
605	FOOT	100	6" UNCLASSIFIED UNDERDRAINS
605	FOOT	4,052	6" BASE PIPE UNDERDRAINS
611	FOOT	248	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS
611	FOOT	323	6" CONDUIT, TYPE B
611	FOOT	45	12" CONDUIT, TYPE B
611	FOOT	324	21" CONDUIT, TYPE A
611	FOOT	102	24" CONDUIT, TYPE B
611	FOOT	405	27" CONDUIT, TYPE C
611	EACH	1	CATCH BASIN, NO. 2-3
611	EACH	4	CATCH BASIN RECONSTRUCTED TO GRADE, LESS THAN 4"
611	EACH	1	INLET, NO. 2-6
611	EACH	2	MANHOLE, NO. 3
611	EACH	9	PRECAST REINFORCED CONCRETE OUTLET

ITEM	UNIT	TOTAL	DESCRIPTION
			PAVEMENT
252	FOOT	731	FULL DEPTH PAVEMENT SAWING
254	SY	608	PAVEMENT PLANING, ASPHALT CONCRETE, T=3"
254	SY	220	PAVEMENT PLANING, PORTLAND CEMENT CONCRETE, T=3"
302	CY	2,155	ASPHALT CONCRETE BASE, PG64-22
304	CY	2,297	AGGREGATE BASE
407	GAL	1,609	TACK COAT
407	GAL	128	NON-TRACKING TACK COAT
441	CY	36	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22
441	CY	36	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)
441	CY	15	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22 (DRIVEWAYS)
441	CY	20	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448) (DRIVEWAYS)
442	CY	400	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)
442	CY	467	ASPHALT CONCRETE INTERMEDIATE COURSE, 19.0 MM, TYPE A (446)
452	SY	22	7" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1
452	SY	2,239	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1
452	SY	21	10" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1
609	FOOT	152	ASPHALT CONCRETE CURB, TYPE 1
609	FOOT	1,986	COMBINATION CURB AND GUTTER, TYPE 2
609	FOOT	300	COMBINATION CURB AND GUTTER, TYPE 3
609	FOOT	397	CURB, TYPE 3-B
609	FOOT	79	CURB, TYPE 4-C
609	FOOT	3,514	CURB, TYPE 6
609	EACH	16	CURB MISC.: COMBINATION CURB AND GUTTER TURNOUT
			LIGHTING
625	EACH	16	CONNECTION, FUSED PULL APART
625	EACH	2	CONNECTION, UNFUSED PULL APART
625	EACH	1	LIGHT TOWER FOUNDATION, 42" X 30' DEEP
625	FOOT	1,000	1-1/2" DUCT CABLE WITH THREE NO. 6 AWG 2400 VOLT CABLES
625	FOOT	171	CONDUIT, 3", 725.04
625	EACH	10	LUMINAIRE, INSTALLATION ONLY, AS PER PLAN
625	FOOT	950	TRENCH, 24" DEEP
625	EACH	4	PULL BOX, 725.08, 18"
625	EACH	2	GROUND ROD
625	EACH	1	RE-ERECT EXISTING LIGHT TOWER, AS PER PLAN
625	FOOT	950	PLASTIC CAUTION TAPE
SPECIAL	LUMP SUM	1	MAINTAIN EXISTING LIGHTING
SPECIAL	EACH	2	REPLACEMENT OF EXISTING LIGHTING UNIT
625	EACH	1	LIGHT TOWER REMOVED
625	EACH	1	LIGHT TOWER REMOVED FOR STORAGE
625	EACH	10	LUMINAIRE REMOVED
625	EACH	10	LUMINAIRE REMOVED FOR REUSE
625	EACH	2	LIGHT TOWER FOUNDATION REMOVED
625	FOOT	1,389	DISTRIBUTION CABLE REMOVED
625	EACH	1	DISCONNECT CIRCUIT

1

1

DESIGN AGENCY: fishbeck

NO.	REVISIONS	BY	DATE
1	ADDENDUM NO. 2	JAH	2/21
2	ADDENDUM NO. 3	JAH	2/21
-	-	-	-

CHECKED: JAH
IN CHARGE: JAH
DESIGNED: TJS
DRAWN: TJS

GENERAL SUMMARY

SANDUSKY COUNTY

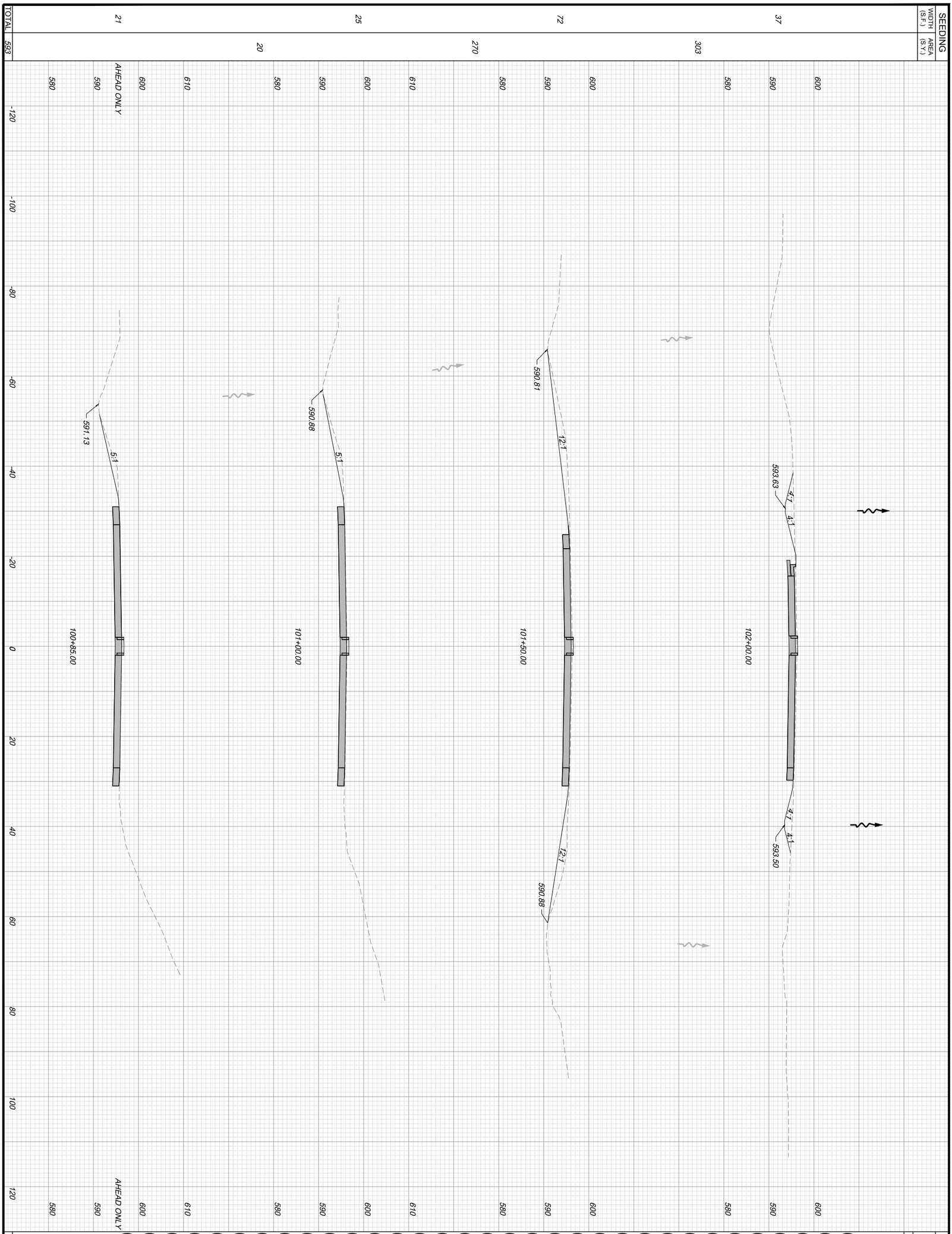
M.P. 91.1, 91.6, AND 92.0

PROJECT 43-21-02
DATE: 06/10/19

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

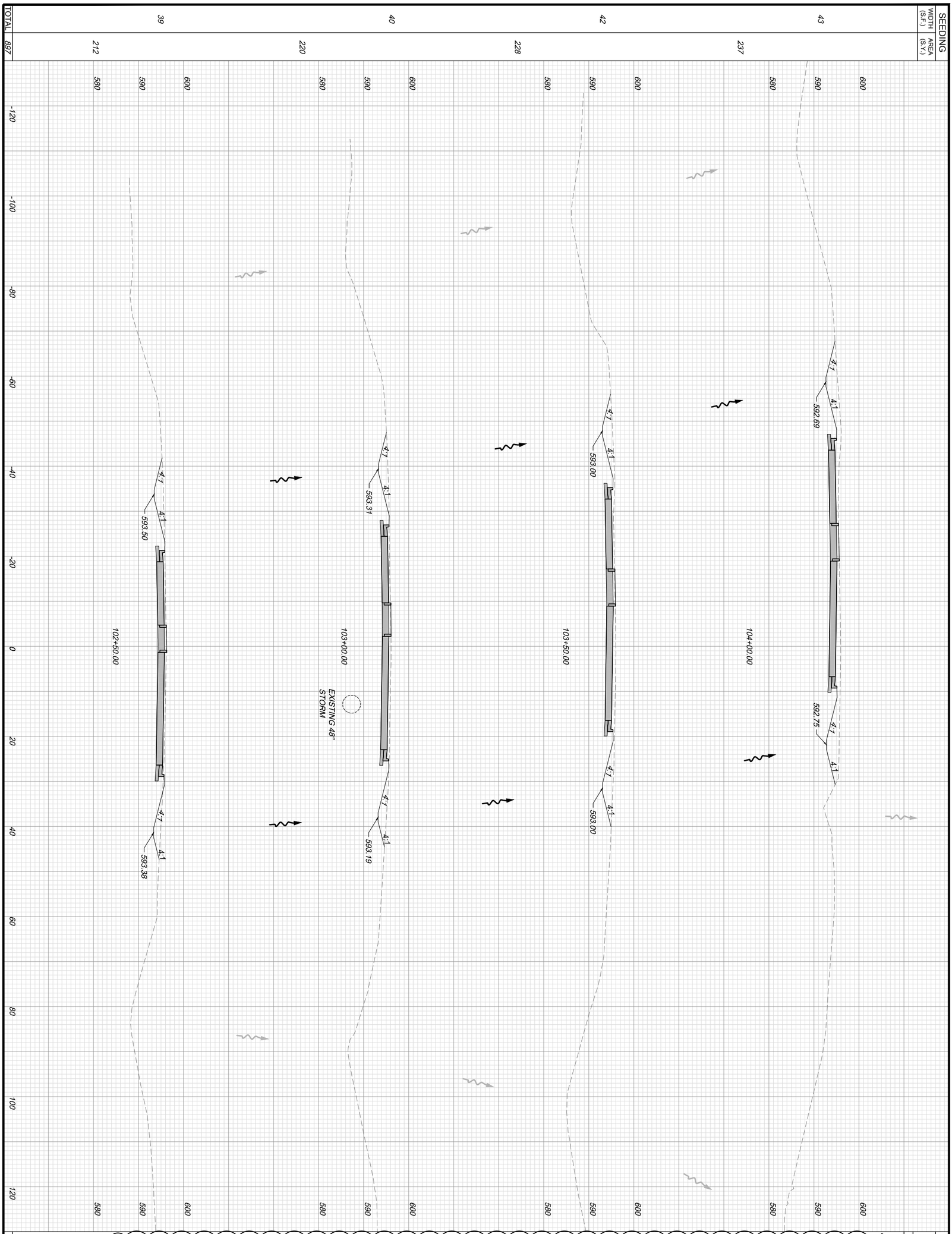
MP920_GS001.dwg; 2/11/21 - 8:03pm

MP920_XS001.dwg; 2/11/21 - 8:04pm



61 / 127	PROJECT 43-21-02	CROSS SECTIONS	DESIGNED MDS	CHECKED JAH	NO.	REVISIONS	BY	DATE	DESIGN AGENCY
	DATE: 09/18/20	STA. 100+85.00 TO STA. 102+00.00	DRAWN MDS	IN CHARGE JAH	1	ADDENDUM NO. 3	JAH	2-21	fishbeck
		MP 92.0 STATE ROUTE 53 SANDUSKY COUNTY			-	-	-	-	Engineers | Architects | Scientists | Constructors
OHIO TURNPIKE	OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION				-	-	-	-	OHIO TURNPIKE

MP920_XS001.dwg; 2/11/21 - 8:05pm



EARTHWORK

END AREA (S.F.) CUT	END AREA (S.F.) FILL	VOLUME (C.Y.) CUT	VOLUME (C.Y.) FILL
50	1	65	2
64	0	106	1
86	0	139	0
121	0	192	0
TOTAL 502		TOTAL 3	

62 / 127

PROJECT 43-21-02

DATE: 09/18/20

MP 92.0

CROSS SECTIONS
STA. 102+50.00 TO STA. 104+00.00
STATE ROUTE 53 SANDUSKY COUNTY

DESIGNED	CHECKED
MDS	JAH
DRAWN	IN CHARGE
MDS	JAH

NO.	REVISIONS	BY	DATE
1	ADDENDUM NO. 3	JAH	2/21
-	-	-	-
-	-	-	-

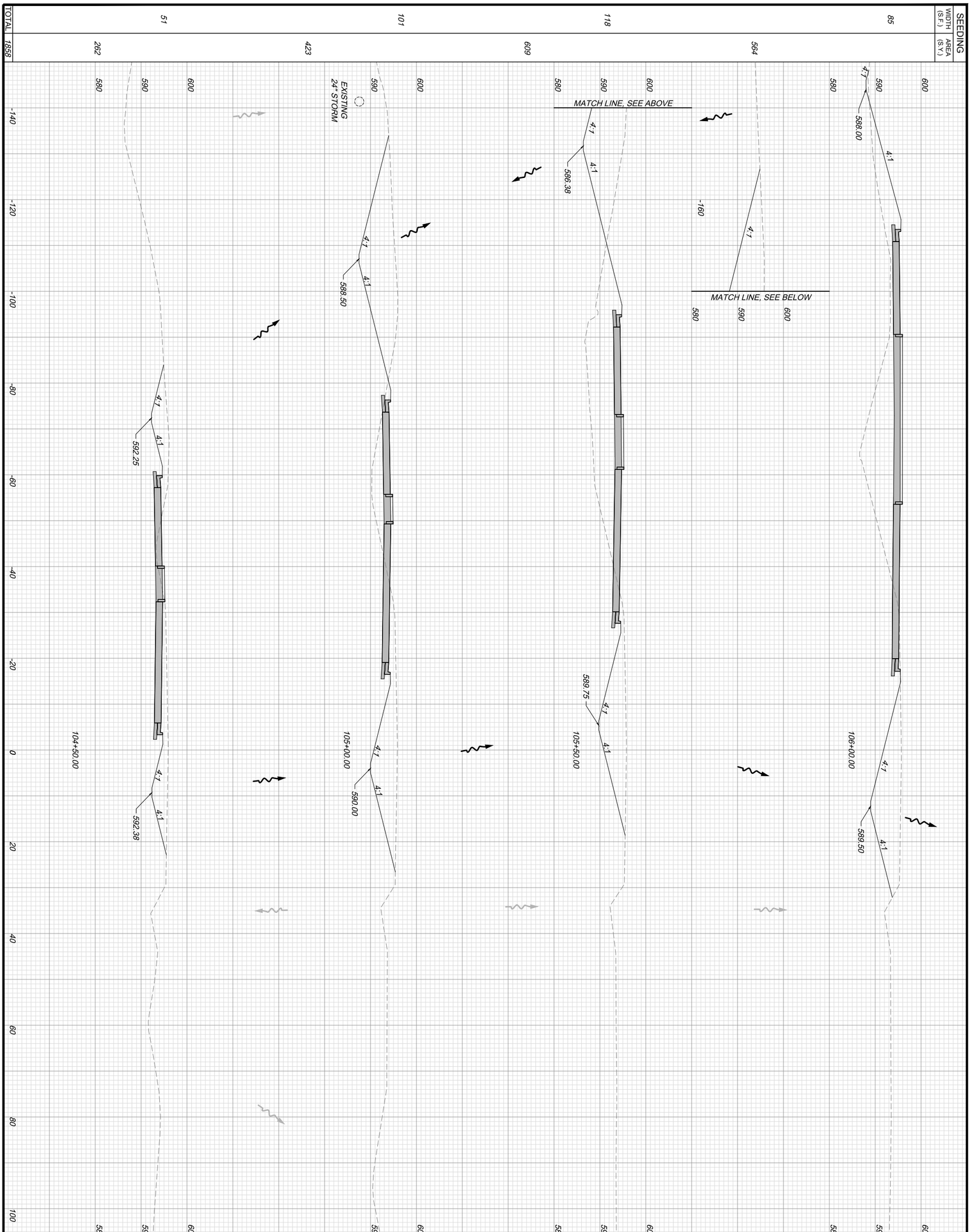
DESIGN AGENCY
fishbeck
Engineers | Architects | Scientists | Constructors

OHIO TURNPIKE

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

OHIO TURNPIKE

MP920_XS001.dwg; 2/11/21 - 8:05pm



EARTHWORK

END AREA (S.F.) CUT	END AREA (S.F.) FILL	VOLUME (C.Y.) CUT	VOLUME (C.Y.) FILL
126	300	451	542
361	285	664	313
356	53	459	50
140	0	242	0
TOTAL		1816	905

63 / 127

PROJECT 43-21-02

DATE: 09/18/20

MP 92.0

CROSS SECTIONS
STA. 104+50.00 TO STA. 106+00.00
STATE ROUTE 53 SANDUSKY COUNTY

DESIGNED	CHECKED
MDS	JAH
DRAWN	IN CHARGE
MDS	JAH

NO.	REVISIONS	BY	DATE
1	ADDENDUM NO. 3	JAH	2/21
-	-	-	-
-	-	-	-

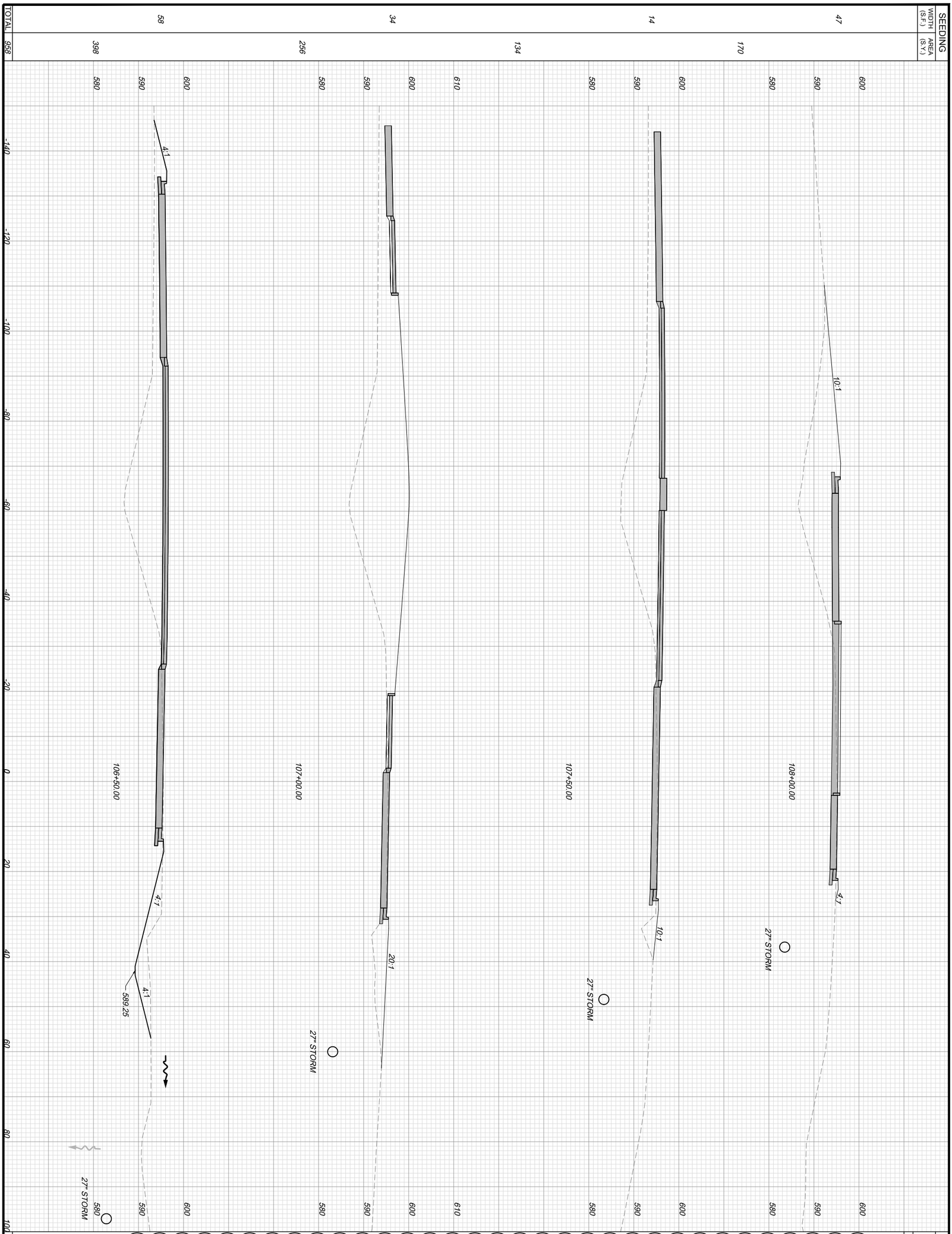
DESIGN AGENCY
fishbeck
Engineers | Architects | Scientists | Constructors

OHIO TURNPIKE

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

OHIO TURNPIKE

MP920_XS001.dwg; 2/11/21 - 8:06pm



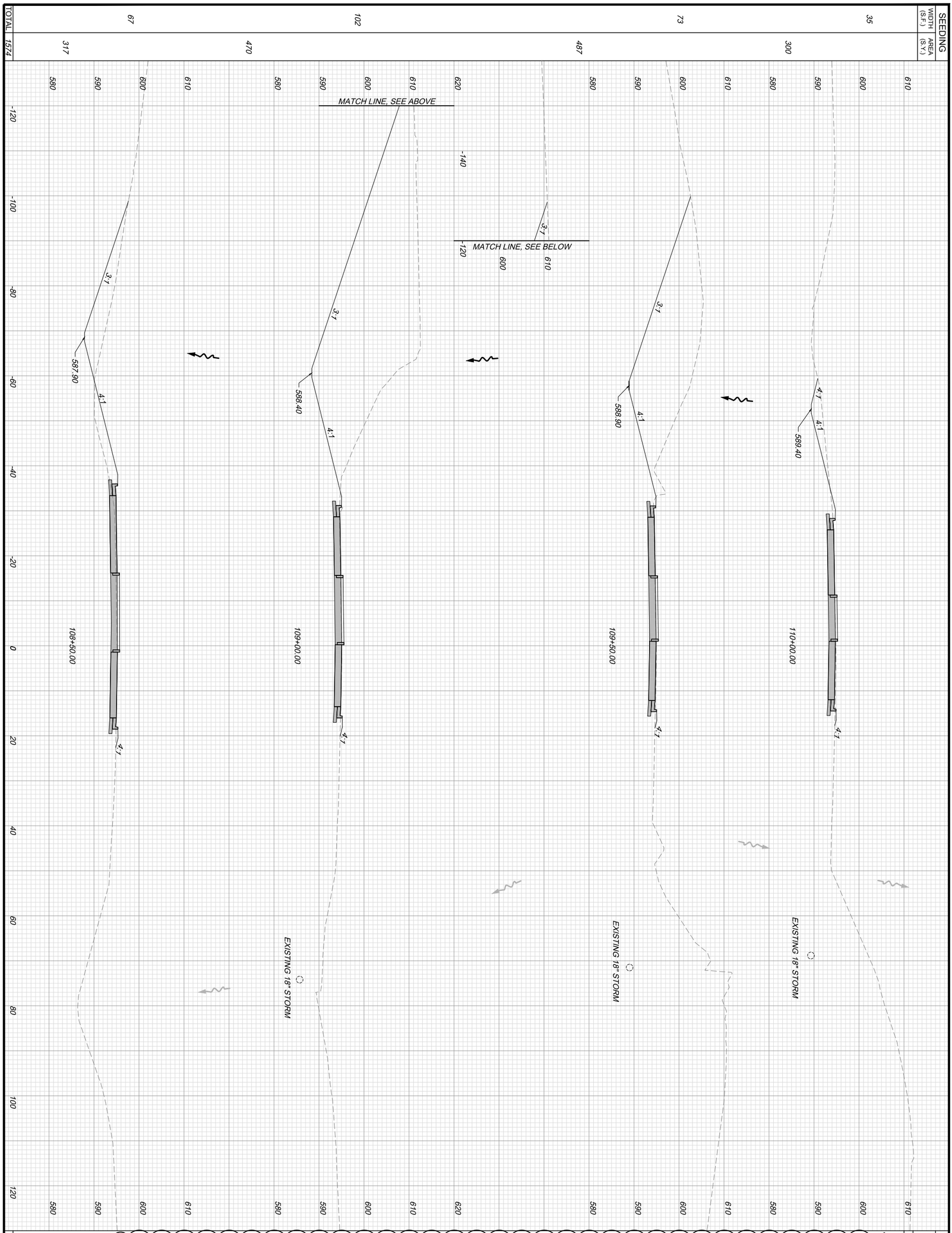
64 / 127	PROJECT 43-21-02	CROSS SECTIONS	DESIGNED MDS	CHECKED JAH	NO.	REVISIONS	BY	DATE	DESIGN AGENCY
	DATE: 09/18/20	STA. 106+50.00 TO STA. 108+00.00	DRAWN MDS	IN CHARGE JAH	1	ADDENDUM NO. 3	JAH	2/21	fishbeck
		MP 92.0 STATE ROUTE 53 SANDUSKY COUNTY			-	-	-	-	
					-	-	-	-	

OHIO TURNPIKE

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

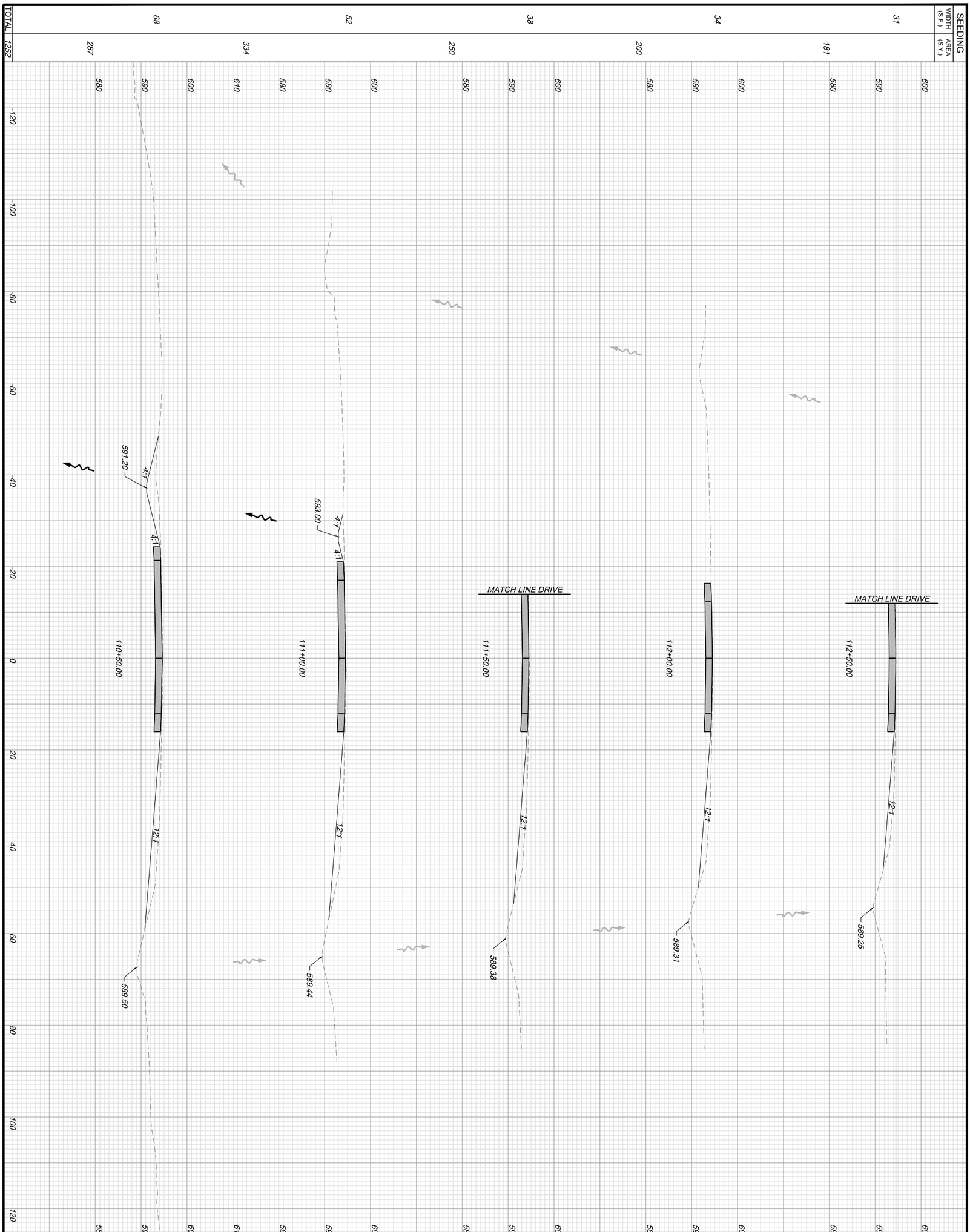
OHIO TURNPIKE

MP920_XS001.dwg; 2/11/21 - 8:06pm



65 / 127	PROJECT 43-21-02	CROSS SECTIONS	DESIGNED MDS	CHECKED JAH	NO.	REVISIONS	BY	DATE	DESIGN AGENCY	
	DATE: 09/20/18	STA. 108+50.00 TO STA. 110+00.00	DRAWN MDS	IN CHARGE JAH	1	ADDENDUM NO. 3	JAH	2/21	fishbeck	
		MP 92.0 STATE ROUTE 53 SANDUSKY COUNTY			-	-	-	-		
OHIO TURNPIKE	OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION				-	-	-	-		OHIO TURNPIKE

MP920_XS001.dwg; 2/11/21 - 8:07pm



66 / 127	PROJECT 43-21-02	CROSS SECTIONS	DESIGNED MDS	CHECKED JAH	NO.	REVISIONS	BY	DATE	DESIGN AGENCY
	DATE: 09/18/20	STA. 110+50.00 TO STA. 112+50.00	DRAWN MDS	IN CHARGE JAH	1	ADDENDUM NO. 3	JAH	2/21	fishbeck
		MP 92.0 STATE ROUTE 53 SANDUSKY COUNTY			-	-	-	-	Engineers | Architects | Scientists | Constructors
OHIO TURNPIKE	OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION				-	-	-	-	OHIO TURNPIKE

SEEDING	
WIDTH (S.F.)	AREA (S.Y.)
0	85
TOTAL	85

EARTHWORK			
END AREA (S.F.)		VOLUME (C.Y.)	
CUT	FILL	CUT	FILL
0	0	19	0
TOTAL		19	0

DESIGN AGENCY
fishbeck

REVISIONS			
NO.		BY	DATE
1	ADDENDUM NO. 3	JAH	2/21
-	-	-	-
-	-	-	-

DESIGNED	CHECKED
MDS	JAH
DRAWN	IN CHARGE
MDS	JAH

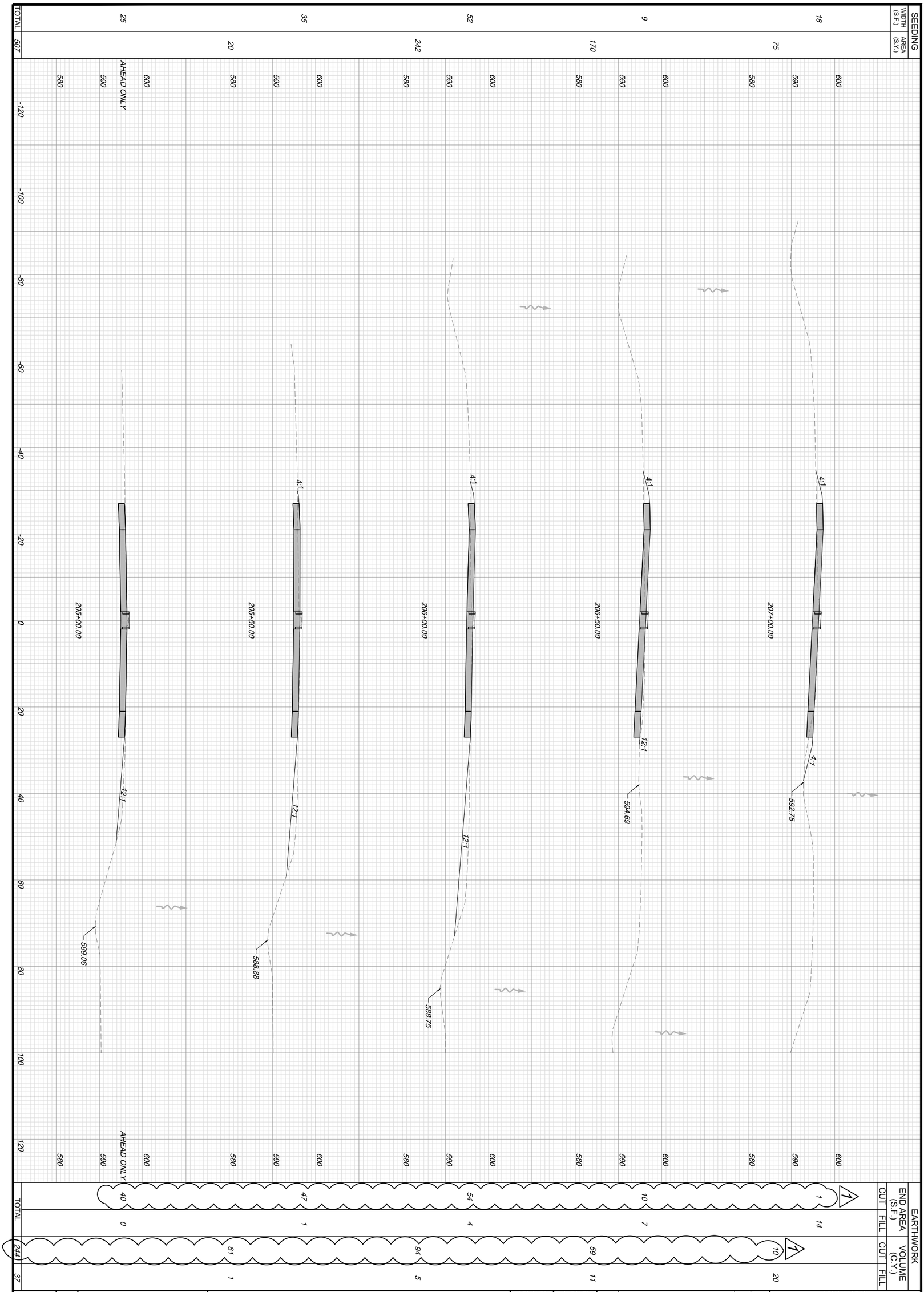
CROSS SECTIONS
STA. 112+99.18
STATE ROUTE 53
SANDUSKY COUNTY
MP 92.0

PROJECT 43-21-02
DATE: 09/18/20

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

MP920_XS001.dwg; 2/11/21 - 8:07pm

MP920_XS001.dwg; 2/11/21 - 8:08pm



68 / 127	PROJECT 43-21-02	CROSS SECTIONS	DESIGNED MDS	CHECKED JAH	NO.	REVISIONS	BY	DATE	DESIGN AGENCY
	DATE: 09/18/20	STA. 205+00.00 TO STA. 207+00.00	DRAWN MDS	IN CHARGE JAH	1	ADDENDUM NO. 3	JAH	2/21	fishbeck
		MP 92.0 RAMP SANDUSKY COUNTY			-	-	-	-	Engineers | Architects | Scientists | Constructors
					-	-	-	-	

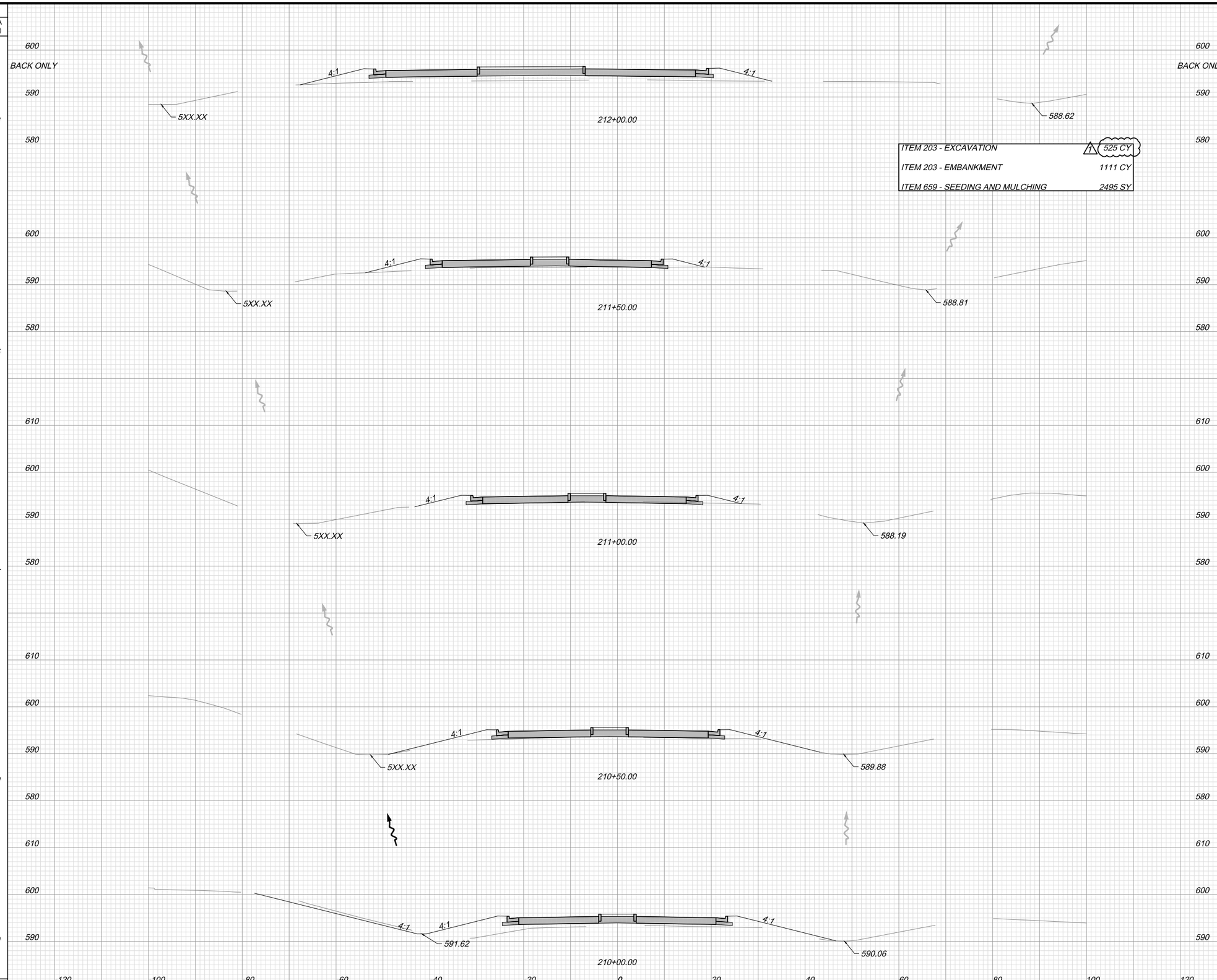
OHIO TURNPIKE

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

OHIO TURNPIKE

| SEEDING | | |

SEEDING		EARTHWORK			
WIDTH (S.F.)	AREA (S.Y.)	END AREA (S.F.) CUT	END AREA (S.F.) FILL	VOLUME (C.Y.) CUT	VOLUME (C.Y.) FILL
30		0	113		
	148			1	140
23		1	38		
	125			8	58
22		7	24		
	187			8	58
45		1	38		
	339			19	129
77		19	101		
	370			26	200
TOTAL	1169	TOTAL		62	585



ITEM	QUANTITY
ITEM 203 - EXCAVATION	1 525 CY
ITEM 203 - EMBANKMENT	1111 CY
ITEM 659 - SEEDING AND MULCHING	2495 SY

DESIGN AGENCY: fishbeck

NO.	REVISIONS	BY	DATE
1	ADDENDUM NO. 3	JAH	2/10/21
-	-	-	-
-	-	-	-

DESIGNED MDS | CHECKED JAH | DRAWN MDS | IN CHARGE JAH

CROSS SECTIONS
STA. 210+50.00 TO STA. 212+00.00
RAMP
MP 92.0
SANDUSKY COUNTY

PROJECT 43-21-02
DATE: 09/18/20

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

MP920_XS001.dwg, 2/11/21 - 8:19pm

WASTE SITE DEDUCT ALTERNATE

THIS DEDUCT ALTERNATE PROVIDES THE CONTRACTOR TWO (2) WASTE AREAS, AS DETAILED ON THE FOLLOWING SHEET, FOR THE EXCAVATED EMBANKMENT AND CONCRETE MATERIALS REMOVED FROM THE PROJECT 43-21-02. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL GRADING AND SEEDING OF THE WASTE SITES. ALL WORK DESCRIBED BELOW SHALL BE INCLUDED IN THE WASTE SITE DEDUCT ALTERNATE CREDIT. THIS CREDIT REPRESENTS THE DIFFERENCE BETWEEN THE COSTS TO TRUCK WASTE MATERIAL OFF COMMISSION PROPERTY COMPARED TO WASTING THE MATERIAL AT THE WASTE SITES, AS WELL AS ALL REQUIREMENTS DESCRIBED IN THIS NOTE. THE UNIT PRICES BID SHALL NOT REFLECT ANY COSTS WHICH APPLY TO SUCH TEMPORARY CONSTRUCTION, RESTORATION, OR REPAIR WORK, AND SUCH WORK SHALL NOT BE SEPARATELY MEASURED OR PAID FOR, BUT SHALL BE PERFORMED WITHOUT COST TO THE COMMISSION. IN THE EVENT THAT THE CONSTRUCTION OF ANY SITE IS NOT APPROVED BY THE CHIEF ENGINEER, THE CONTRACT SHALL PROCEED AS IF NO REQUEST OR BID HAD BEEN MADE FOR THE CONSTRUCTION THEREOF.

THE SCHEMATIC PLAN ON THESE SHEETS PROVIDES ONLY GENERAL DETAILS OF THE ALLOWABLE WASTE SITE AREAS. THE CONTRACTOR AWARDED THIS CONTRACT SHALL PROVIDE A FORMAL PLAN SUBMITTAL FOR REVIEW AND APPROVAL BY THE CHIEF ENGINEER NO LATER THAN TWENTY-ONE (21) DAYS PRIOR TO THE INTENDED WASTE SITE WORK COMMENCEMENT. NO SUBMITTALS ARE DUE WITH THE BID DOCUMENTS. THE WASTE SITE PLAN SUBMITTAL SHALL INCLUDE, AT A MINIMUM:

1. EXISTING AND PROPOSED CONTOURS (ONE-FOOT INTERVALS), RAMPS, SITE ACCESS RAMPS, DRAINAGE, LIGHTING, UTILITIES, AND ALL OTHER DETAILS REQUIRED TO PERFORM THE PROPOSED WORK.

2. APPROXIMATE CUBIC YARDS OF MATERIAL TO BE DISPOSED OF AT THE WASTE SITE.

3. PROPOSED DRAINAGE PLAN DETAILING HOW WATER WILL BE CONVEYED OR CONTROLLED, INCLUDING ANY CHANNELS, DITCHES, SWALES AND/OR DRAINAGE STRUCTURES ALL REQUIRED DRAINAGE ELEMENTS SHALL BE DESIGNED IN ACCORDANCE WITH THE CURRENT ODOT DRAINAGE LOCATION AND DESIGN MANUAL, VOLUME 2.

4. TEMPORARY DITCH CROSSING DETAILS.

5. TEMPORARY SEDIMENT AND EROSION CONTROL BMPS REQUIRED FOR COMPLIANCE UNDER THE CLEAN WATER ACT, OHIO WATER POLLUTION CONTROL ACT, (OWPCA) (ORC CHAPTER 6111) AND THE NPDES PERMIT.

THE WASTE SITE PLAN AND CONSTRUCTION OPERATIONS SHALL ALSO MEET THE FOLLOWING REQUIREMENTS:

1. AS-BUILT DRAWINGS SHALL BE PROVIDED IN AUTOCAD FILE FORMAT.

2. PRE AND POST TOPOGRAPHIC SURVEY PLAN OF THE ENTIRE AREA AFFECTED BY THE PROPOSED CHANGES SHALL BE STAMPED BY A PROFESSIONAL SURVEYOR LICENSED IN THE STATE OF OHIO.

3. ALL EXISTING TREES AND BRUSH SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH SP105.

4. FINAL GRADING AND SEEDING:

   A. WHEN WASTING PCC, MIX THE PCC WITH AT LEAST 30 PERCENT NATURAL SOIL TO CONSTRUCT AN INNER CORE IN THE WASTE AREA. ALL MATERIAL BEING WASTED SHALL MEET THE STANDARDS FOR CLEAN HARD FILL PER OAC 3745-400-05. COVER THIS INNER CORE WITH 3 FEET OF NATURAL SOIL ON THE TOP AND ON ALL SIDE SLOPES. PLACE AND COMPACT THE MATERIAL ACCORDING TO ITEM 203.06.D TO PREVENT FUTURE SETTLEMENT AND SLIDING.
   B. MATERIAL CONTAINING SLAG SHALL NOT BE WITHIN THE FIRST 3 FEET ABOVE GRADE.
   C. SLOPES SHALL BE CONSTRUCTED AT A 3:1 MAX WITH THE TOP SLOPING FROM THE CENTER WITH 12:1 MINIMUM GRADING.
   D. EXISTING TOPSOIL SHALL BE REMOVED, STOCKPILED, AND RE-SPREAD OVER THE ENTIRE INFIELD AREA. A MINIMUM THICKNESS OF 6" OF TOPSOIL SHALL COVER THE ENTIRE WASTE PILE.
   E. CONTRACTOR MAY TEST EXISTING SOIL WITHIN THE DESIGNATED WASTE SITE AREA TO VERIFY SUITABILITY FOR USE ON OTHER AREAS OF THE PROJECT. IF THE SOIL IS DETERMINED TO BE SUITABLE FOR OTHER USES, THE CONTRACTOR MAY USE THE WASTE SITE AREA FIRST AS A BORROW AREA. FINAL GRADING SHALL NOT CAUSE THE PONDING OF ANY WATER.
   F. THE COMMISSION RESERVES THE RIGHT TO MODIFY FINAL GRADING AND ELEVATIONS AS WORK PROGRESSES.
   G. RESTORATION OF ALL DISTURBED AREAS SHALL INCLUDE CLEANUP, SHAPING, REPLACEMENT OF TOPSOIL, AND ESTABLISHMENT OF VEGETATIVE COVER BY SEEDING AND MULCHING IN ACCORDANCE WITH ALL ITEMS 659. ENSURE THE RESTORED AREA IS WELL DRAINED.

5. IF REQUIRED, THE CONTRACTOR SHALL PROVIDE MAINTENANCE OF TRAFFIC CONTROLS IN ACCORDANCE WITH SP 614 AND OTIC STANDARD DRAWINGS, A FLAGGERS SHALL BE STATIONED AT ALL ACCESS POINTS TO CONTROL INGRESS/ EGRESS OF CONSTRUCTION VEHICLES ONTO ACTIVE ROADWAYS.

6. WASTE SITE ACCESS RAMPS:

   A. TURNPIKE RAMP TRAFFIC VOLUME MAY RESTRICT OR DICTATE WHEN OFF-ROAD TRUCKS OR CONSTRUCTION VEHICLES MAY CROSS ACTIVE RAMPS.
   B. ALL ACCESS POINTS SHALL BE CLOSED WITH BARRELS AND TYPE 3 BARRICADES WHEN NOT IN USE.
   C. STANDARD CONSTRUCTION ENTRANCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH SWPPP REQUIREMENTS. ADJACENT TURNPIKE ACTIVE RAMPS PAVEMENT SHALL BE KEPT FREE FROM MUD AND DEBRIS.
   D. EARLY WARNING ADVISORY SIGNAGE MAY NEED TO BE PLACED AND ACTIVE WHEN WASTE SITE IS IN USE TO ADVISE TRAFFIC THAT CONSTRUCTION VEHICLES ARE CROSSING, ENTERING AND/OR EXITING.
   E. ALL CONSTRUCTION VEHICLES AND TRUCKS TRAVELING ON OR ACROSS ACTIVE TURNPIKE ROADWAYS SHALL COMPLY WITH ALL COMMISSION WEIGHT RESTRICTIONS.

DESIGN AGENCY

NO.	REVISIONS	BY	DATE
-	-	-	-
-	-	-	-
-	-	-	-

DESIGNED	CHECKED
CAC	ADY
DRAWN	IN CHARGE
CAC	

WASTE SITE NOTES

SANDUSKY COUNTY

M.P. 92.0

PROJECT 43-21-02

DATE: 02/11/2021

127A / 127

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

43-21-02 Waste.dwg; 2/12/21 - 2:03pm

43-21-02 Waste.dwg; 2/12/21 - 2:05pm

127B 127	PROJECT 43-21-02	WASTE SITE AREAS	DESIGNED CAC	CHECKED	NO.	REVISIONS	BY	DATE	DESIGN AGENCY
	DATE: 02/11/2021	M.P. 92.0 SANDUSKY COUNTY	DRAWN CAC	IN CHARGE ADY	-	-	-	-	

OHIO TURNPIKE

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

OHIO TURNPIKE