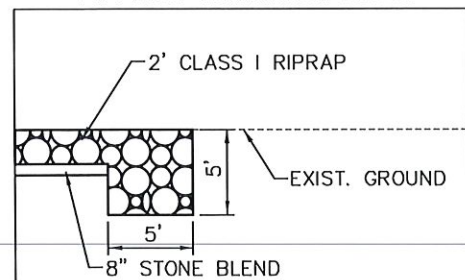


LINE "A"
TYPICAL SECTION
STA. 12+13 TO STA. 15+91

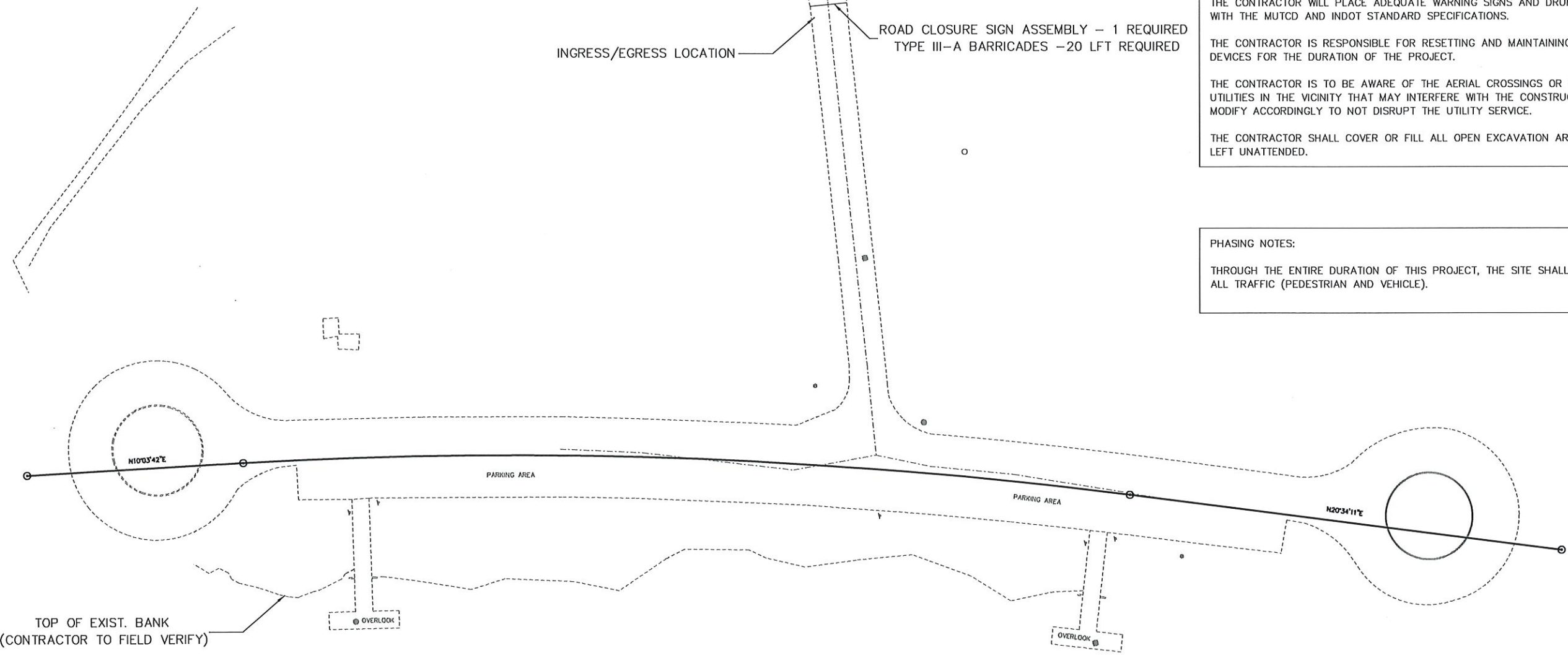
TYP. EDGE TERMINATION DETAIL



- 1 BERM WIDTH VARIES ALONG THE PROJECT
SEE CROSS SECTIONS FOR APPROXIMATE WIDTHS
- 2 CONTRACTOR TO RESTORE AND RESEED BERM AREA
(SEE REPLANTING PLAN FOR INFORMATION)

W:\DWG\2017-276 Charleston Berm Stabilization\Design\CAD\Typical Sections.dgn
 1/20/2017 11:53 AM
 1/20/2017 11:53 AM
 1/20/2017 11:53 AM
 1/20/2017 11:53 AM

						RECOMMENDED FOR APPROVAL <i>D.L. Warren</i> DESIGN ENGINEER 1-20-20 DATE	INDIANA DEPARTMENT OF NATURAL RESOURCES	HORIZONTAL SCALE	BRIDGE FILE
				DESIGNED: DTW CHECKED: DPL		DRAWN: KAM CHECKED: DTW		VERTICAL SCALE N/A	DESIGNATION N/A
TYPICAL SECTIONS LINE "A"								SURVEY BOOK	SHEETS
								2	of
							CONTRACT	PROJECT	ENG2003724395



GENERAL NOTES:

CONTRACTOR SHALL COORDINATE MAINTENANCE OF TRAFFIC WITH IDNR.

THE CONTRACTOR WILL PLACE ADEQUATE WARNING SIGNS AND DRUMS IN ACCORDANCE WITH THE MUTCD AND INDOT STANDARD SPECIFICATIONS.

THE CONTRACTOR IS RESPONSIBLE FOR RESETING AND MAINTAINING TRAFFIC CONTROL DEVICES FOR THE DURATION OF THE PROJECT.

THE CONTRACTOR IS TO BE AWARE OF THE AERIAL CROSSINGS OR UNDERGROUND UTILITIES IN THE VICINITY THAT MAY INTERFERE WITH THE CONSTRUCTION PHASING AND MODIFY ACCORDINGLY TO NOT DISRUPT THE UTILITY SERVICE.

THE CONTRACTOR SHALL COVER OR FILL ALL OPEN EXCAVATION AREAS WHEN SITE IS LEFT UNATTENDED.

PHASING NOTES:

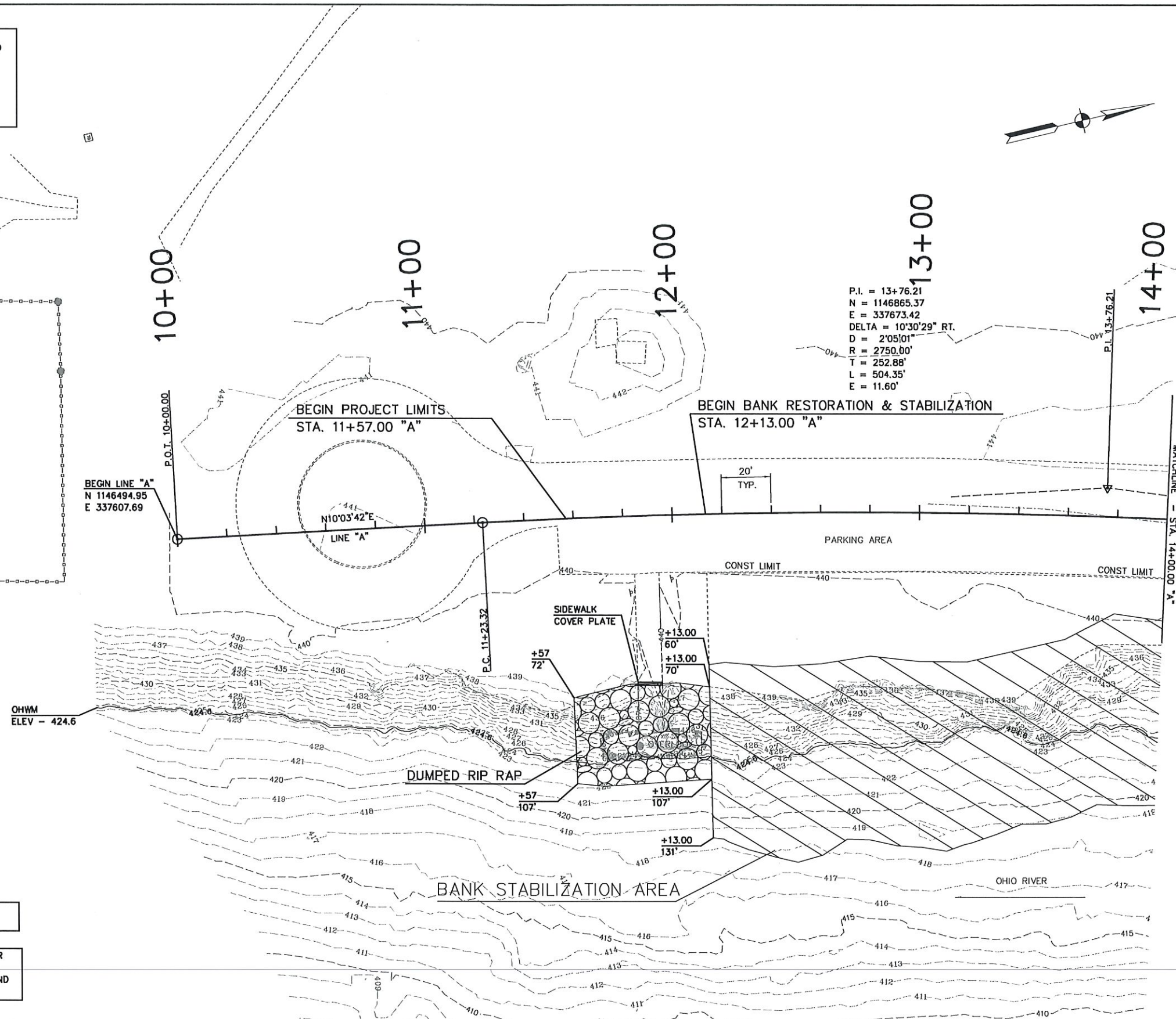
THROUGH THE ENTIRE DURATION OF THIS PROJECT, THE SITE SHALL BE CLOSED TO ALL TRAFFIC (PEDESTRIAN AND VEHICLE).

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 INDOT\B1

						RECOMMENDED FOR APPROVAL <i>D. Warren</i> DESIGN ENGINEER 1-20-20 DATE	INDIANA DEPARTMENT OF NATURAL RESOURCES MAINTENANCE OF TRAFFIC	HORIZONTAL SCALE 1"=30' VERTICAL SCALE N/A	BRIDGE FILE DESIGNATION N/A
						DESIGNED: DTW DRAWN: KAM CHECKED: DPL CHECKED: DTW		SURVEY BOOK CONTRACT	SHEETS 4 of 17 PROJECT ENG2003724395

BASIS OF ELEVATIONS:
ELEVATIONS WERE DERIVED FROM OPUS METHODS AND ADJUSTED TO THE NAVD88 VERTICAL DATUM

COORDINATE SYSTEM:
COORDINATES ARE BASED ON THE STATE PLANE COORDINATE SYSTEM, INDIANA EAST AND ARE IN US SURVEY FEET.



P.I. = 13+76.21
N = 1146865.37
E = 337673.42
DELTA = 10°30'29" RT.
D = 2'05"01"
R = 2750.00'
T = 252.88'
L = 504.35'
E = 11.60'

BEGIN LINE "A"
N 1146494.95
E 337607.69

BEGIN PROJECT LIMITS
STA. 11+57.00 "A"

BEGIN BANK RESTORATION & STABILIZATION
STA. 12+13.00 "A"

MATCHLINE - STA. 14+00.00 "A"

CONTRACTOR WILL DUMP RIP RAP TO ACHIEVE 2' OF COVER DOWN THE SLOPE WITHIN THE LIMITS SHOWN.

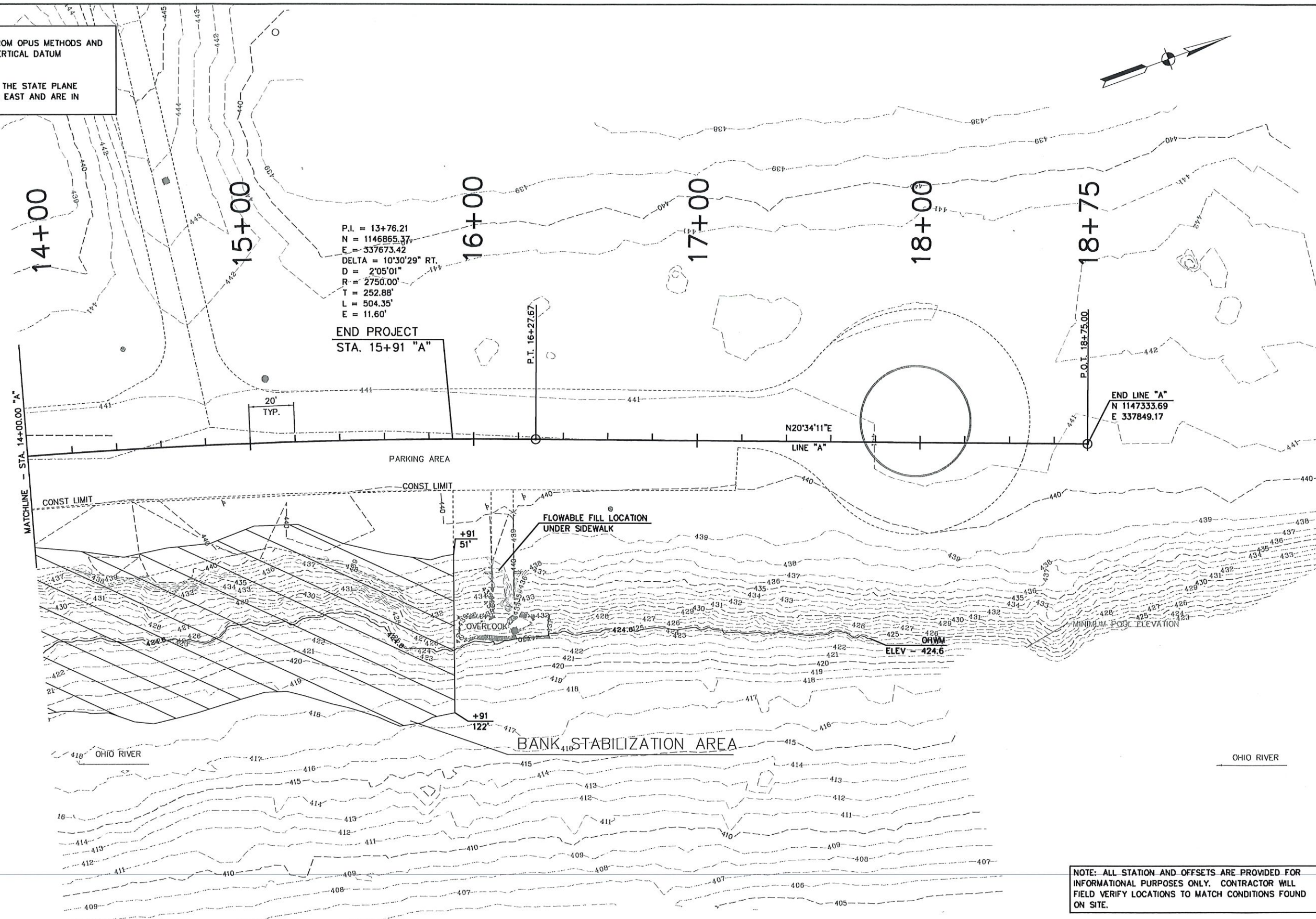
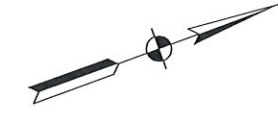
NOTE: ALL STATION AND OFFSETS ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR WILL FIELD VERIFY LOCATIONS TO MATCH CONDITIONS FOUND ON SITE.

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						RECOMMENDED FOR APPROVAL DESIGN ENGINEER 1-20-20 DATE	INDIANA DEPARTMENT OF NATURAL RESOURCES	HORIZONTAL SCALE	BRIDGE FILE
								1"=20'	DESIGNATION
					DESIGNED: DTW	DRAWN: KAM	PLAN SHEET STA. 10+00.00 TO STA. 14+00.00 "A"	SURVEY BOOK	SHEETS
					CHECKED: DPL	CHECKED: DTW		5 of 17	PROJECT

BASIS OF ELEVATIONS:
 ELEVATIONS WERE DERIVED FROM OPUS METHODS AND
 ADJUSTED TO THE NAVD88 VERTICAL DATUM

COORDINATE SYSTEM:
 COORDINATES ARE BASED ON THE STATE PLANE
 COORDINATE SYSTEM, INDIANA EAST AND ARE IN
 US SURVEY FEET.



P.I. = 13+76.21
 N = 1146865.37
 E = 337673.42
 DELTA = 10°30'29" RT.
 D = 2°05'01"
 R = 2750.00'
 T = 252.88'
 L = 504.35'
 E = 11.60'

END PROJECT
 STA. 15+91 "A"

END LINE "A"
 N 1147333.69
 E 337849.17

MATCHLINE - STA. 14+00.00 "A"

NOTE: ALL STATION AND OFFSETS ARE PROVIDED FOR
 INFORMATIONAL PURPOSES ONLY. CONTRACTOR WILL
 FIELD VERIFY LOCATIONS TO MATCH CONDITIONS FOUND
 ON SITE.

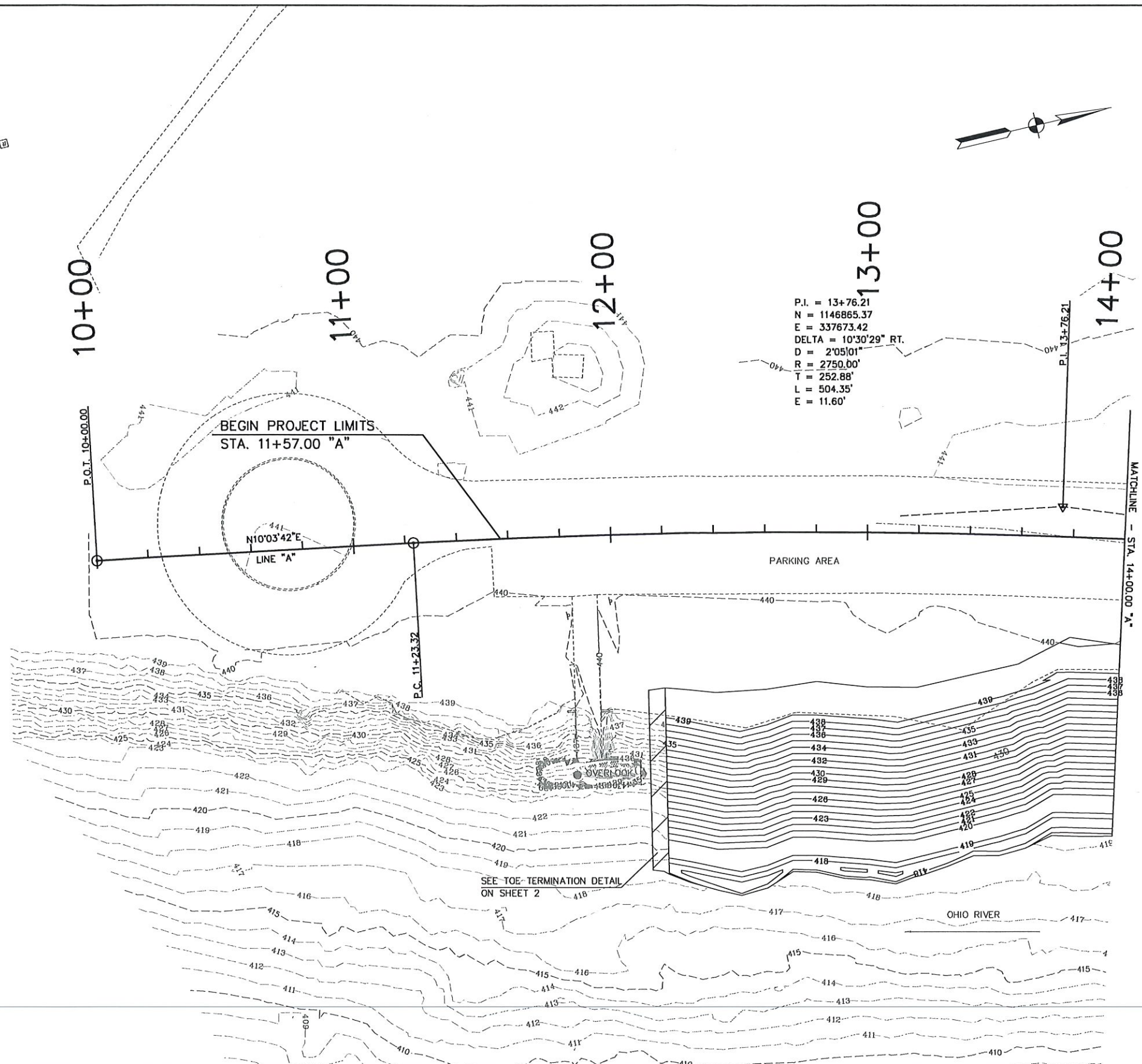
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						RECOMMENDED FOR APPROVAL <i>D. K. ...</i> DESIGN ENGINEER 1-20-20 DATE	INDIANA DEPARTMENT OF NATURAL RESOURCES	HORIZONTAL SCALE	BRIDGE FILE
								1"=20'	DESIGNATION
								VERTICAL SCALE	
								SURVEY BOOK	SHEETS
								CONTRACT	6 of 17 PROJECT
									ENG2003724395

PLAN SHEET
 STA. 14+00.00 TO STA. 18+75.00 "A"

BASIS OF ELEVATIONS:
 ELEVATIONS WERE DERIVED FROM OPUS METHODS AND
 ADJUSTED TO THE NAVD88 VERTICAL DATUM

COORDINATE SYSTEM:
 COORDINATES ARE BASED ON THE STATE PLANE
 COORDINATE SYSTEM, INDIANA EAST AND ARE IN
 US SURVEY FEET.

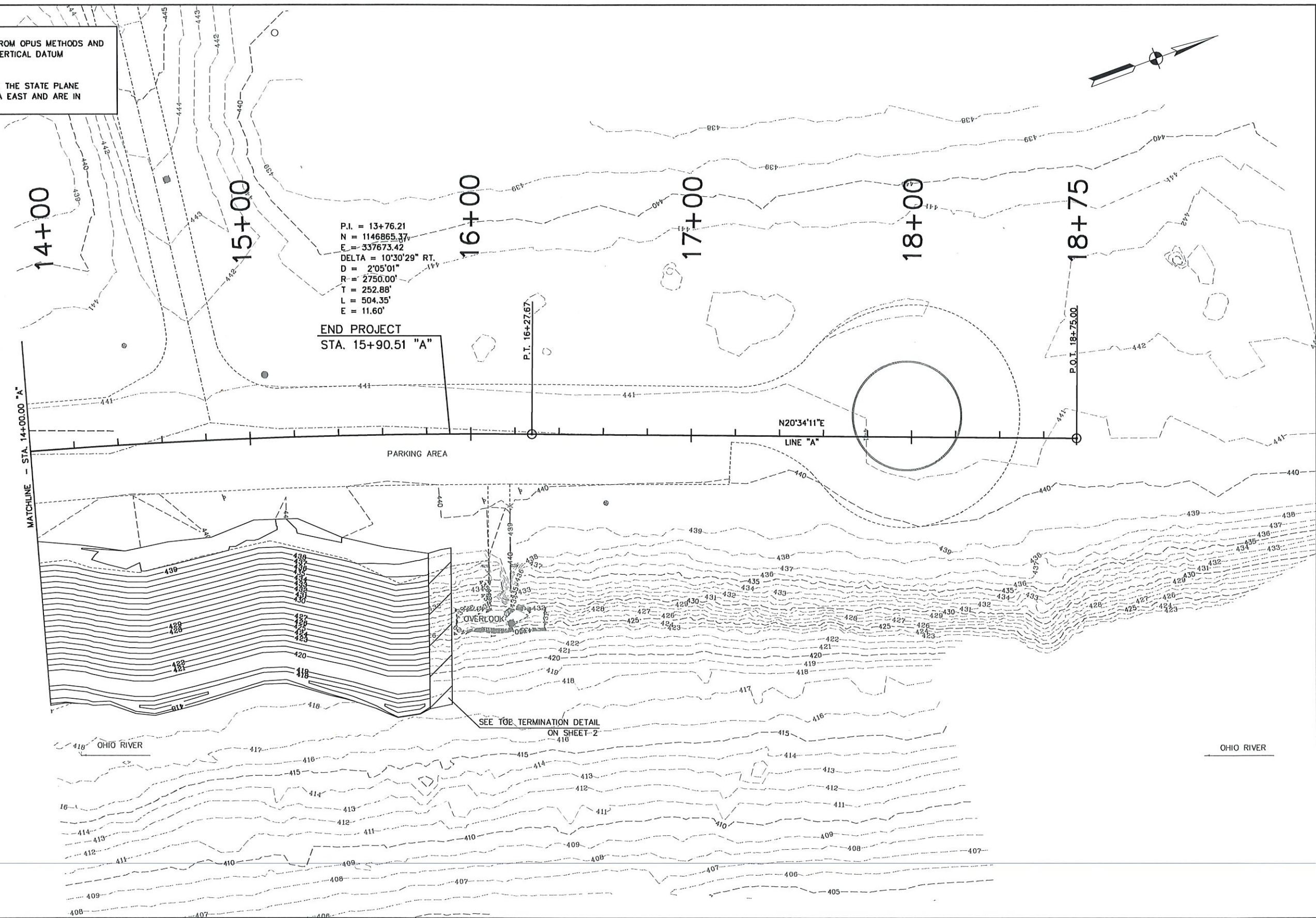
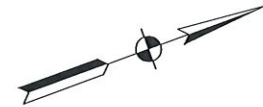


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						RECOMMENDED FOR APPROVAL <i>D. H. [Signature]</i> DESIGN ENGINEER 1-20-20 DATE	INDIANA DEPARTMENT OF NATURAL RESOURCES CONTOUR PLAN SHEET STA. 10+00.00 TO STA. 14+00.00 "A"	HORIZONTAL SCALE	BRIDGE FILE
								VERTICAL SCALE	DESIGNATION N/A
								SURVEY BOOK	SHEETS 7 of 17
								CONTRACT	PROJECT ENG2003724395

BASIS OF ELEVATIONS:
 ELEVATIONS WERE DERIVED FROM OPUS METHODS AND
 ADJUSTED TO THE NAVD88 VERTICAL DATUM

COORDINATE SYSTEM:
 COORDINATES ARE BASED ON THE STATE PLANE
 COORDINATE SYSTEM, INDIANA EAST AND ARE IN
 US SURVEY FEET.



P.I. = 13+76.21
 N = 1146865.37
 E = 337673.42
 DELTA = 10°30'29" RT.
 D = 2°05'01"
 R = 2750.00'
 T = 252.88'
 L = 504.35'
 E = 11.60'

END PROJECT
 STA. 15+90.51 "A"

P.I. 16+27.67

N20°34'11"E
 LINE "A"

P.O.I. 18+75.00

MATCHLINE - STA. 14+00.00 "A"

PARKING AREA

OVERLOOK

SEE FOR TERMINATION DETAIL
 ON SHEET-2

OHIO RIVER

OHIO RIVER

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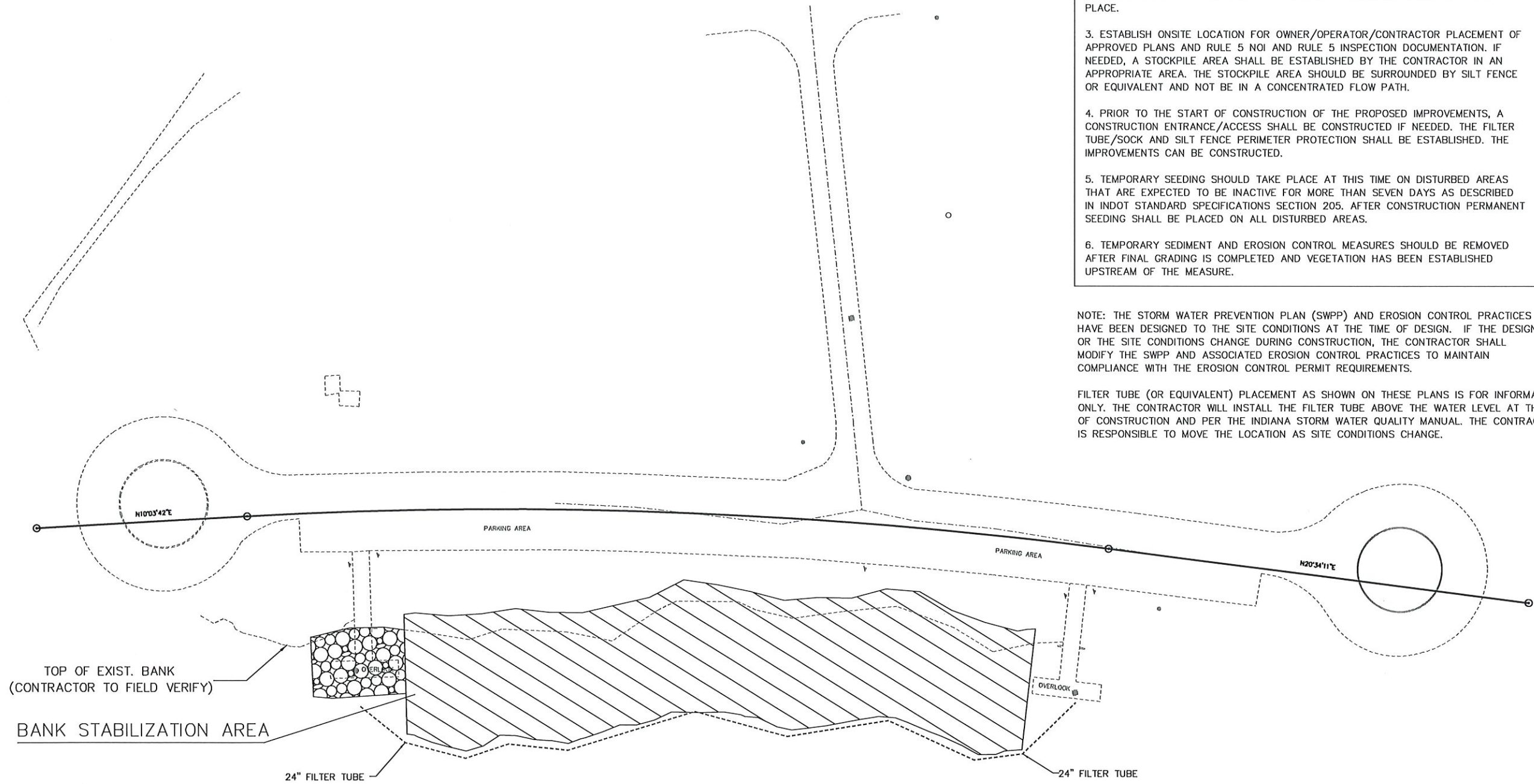
						RECOMMENDED FOR APPROVAL <i>D. Warren</i> DESIGN ENGINEER 1-20-20 DATE	INDIANA DEPARTMENT OF NATURAL RESOURCES	HORIZONTAL SCALE	BRIDGE FILE
								DESIGNED: DTW	DRAWN: KAM
							CONTOUR PLAN SHEET STA. 14+00.00 TO STA. 18+75.00 "A"	SURVEY BOOK	SHEETS
								CONTRACT	8 of 17 PROJECT ENG2003724395



- EROSION CONTROL NOTES:**
1. CONTRACTOR SHALL REFER TO THE INDIANA STORM WATER QUALITY MANUAL AND THE INDOT STANDARDS WHEN PERFORMING EROSION CONTROL. IN CASE OF CONFLICT, THE MORE STRINGENT SHALL APPLY
 2. CALL THE INDIANA UNDERGROUND PLANT PROTECTION SYSTEMS, INC. ("HOLEY MOLEY") AT 1-800-382-5544 TO CHECK THE LOCATION OF ANY EXISTING UTILITIES. THEY SHOULD BE NOTIFIED TWO WORKING DAYS BEFORE CONSTRUCTION TAKES PLACE.
 3. ESTABLISH ONSITE LOCATION FOR OWNER/OPERATOR/CONTRACTOR PLACEMENT OF APPROVED PLANS AND RULE 5 NOI AND RULE 5 INSPECTION DOCUMENTATION. IF NEEDED, A STOCKPILE AREA SHALL BE ESTABLISHED BY THE CONTRACTOR IN AN APPROPRIATE AREA. THE STOCKPILE AREA SHOULD BE SURROUNDED BY SILT FENCE OR EQUIVALENT AND NOT BE IN A CONCENTRATED FLOW PATH.
 4. PRIOR TO THE START OF CONSTRUCTION OF THE PROPOSED IMPROVEMENTS, A CONSTRUCTION ENTRANCE/ACCESS SHALL BE CONSTRUCTED IF NEEDED. THE FILTER TUBE/SOCK AND SILT FENCE PERIMETER PROTECTION SHALL BE ESTABLISHED. THE IMPROVEMENTS CAN BE CONSTRUCTED.
 5. TEMPORARY SEEDING SHOULD TAKE PLACE AT THIS TIME ON DISTURBED AREAS THAT ARE EXPECTED TO BE INACTIVE FOR MORE THAN SEVEN DAYS AS DESCRIBED IN INDOT STANDARD SPECIFICATIONS SECTION 205. AFTER CONSTRUCTION PERMANENT SEEDING SHALL BE PLACED ON ALL DISTURBED AREAS.
 6. TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE REMOVED AFTER FINAL GRADING IS COMPLETED AND VEGETATION HAS BEEN ESTABLISHED UPSTREAM OF THE MEASURE.

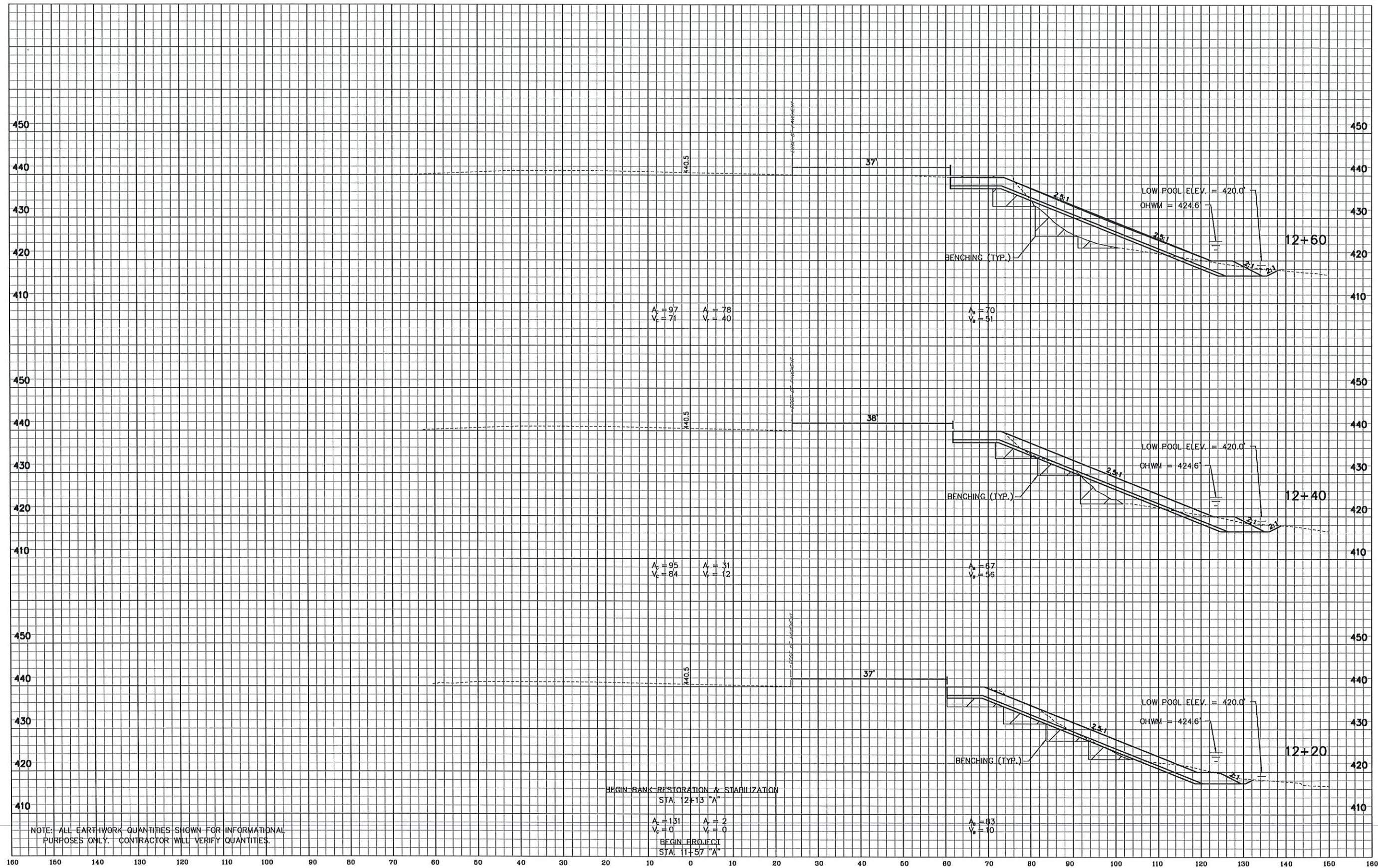
NOTE: THE STORM WATER PREVENTION PLAN (SWPP) AND EROSION CONTROL PRACTICES HAVE BEEN DESIGNED TO THE SITE CONDITIONS AT THE TIME OF DESIGN. IF THE DESIGN OR THE SITE CONDITIONS CHANGE DURING CONSTRUCTION, THE CONTRACTOR SHALL MODIFY THE SWPP AND ASSOCIATED EROSION CONTROL PRACTICES TO MAINTAIN COMPLIANCE WITH THE EROSION CONTROL PERMIT REQUIREMENTS.

FILTER TUBE (OR EQUIVALENT) PLACEMENT AS SHOWN ON THESE PLANS IS FOR INFORMATION ONLY. THE CONTRACTOR WILL INSTALL THE FILTER TUBE ABOVE THE WATER LEVEL AT THE TIME OF CONSTRUCTION AND PER THE INDIANA STORM WATER QUALITY MANUAL. THE CONTRACTOR IS RESPONSIBLE TO MOVE THE LOCATION AS SITE CONDITIONS CHANGE.



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						RECOMMENDED FOR APPROVAL <i>D. Warren</i> DESIGN ENGINEER 1-20-20 DATE	INDIANA DEPARTMENT OF NATURAL RESOURCES EROSION CONTROL	HORIZONTAL SCALE 1"=30' VERTICAL SCALE N/A	BRIDGE FILE DESIGNATION N/A
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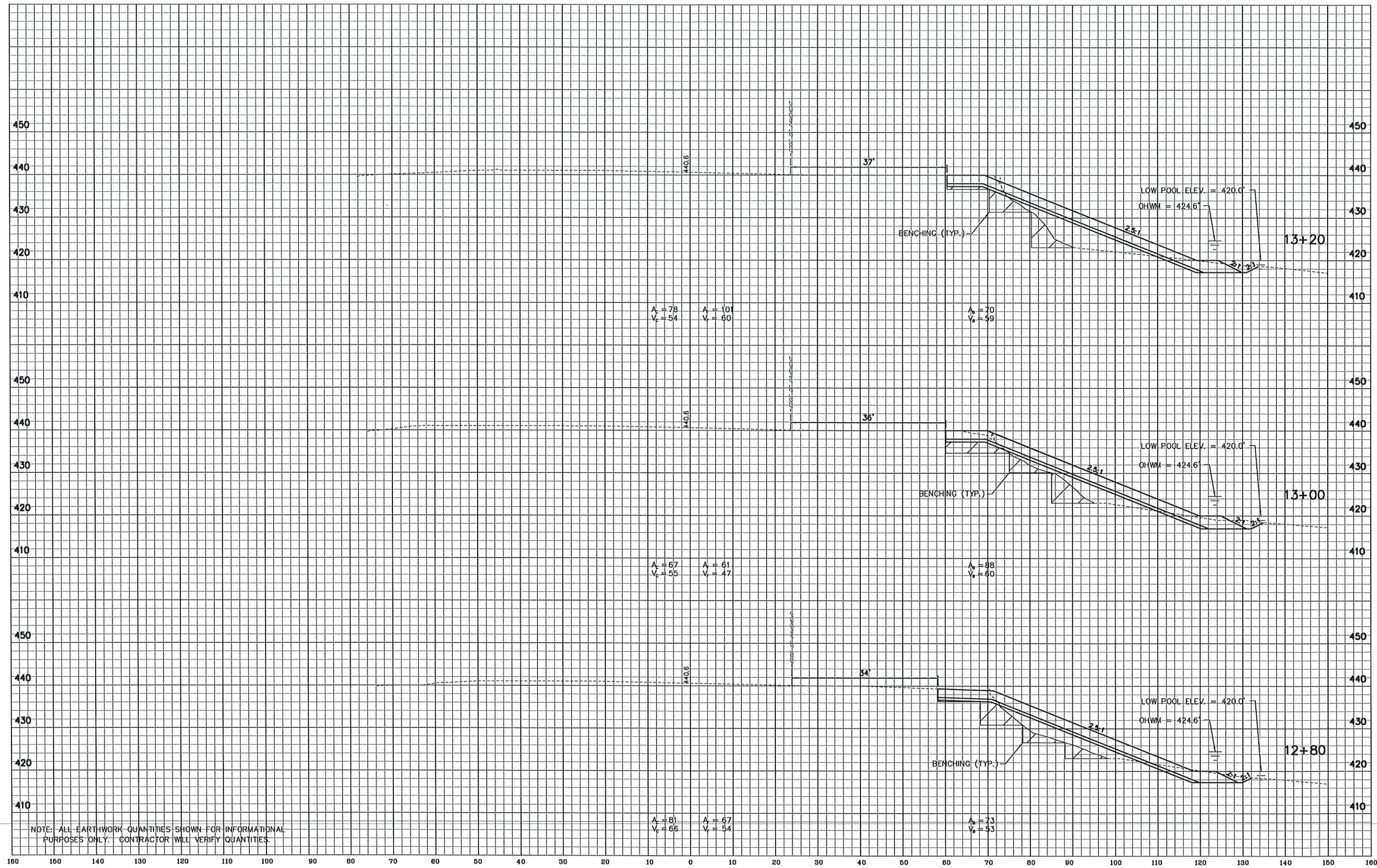


NOTE: ALL EARTHWORK QUANTITIES SHOWN FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR WILL VERIFY QUANTITIES.

BEGIN BANK RESTORATION & STABILIZATION
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 Vc = 0 V1 = 0
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 STA. 11+57 "A"
 Ac = 83 A1 = 10

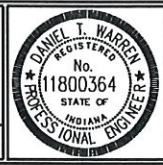
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										CHECKED: DPL CHECKED: DTW		SURVEY BOOK SHEETS 11 of 17			
										CROSS SECTION STA. 12+20 TO STA. 12+60 "A"		CONTRACT PROJECT ENG2003724395			



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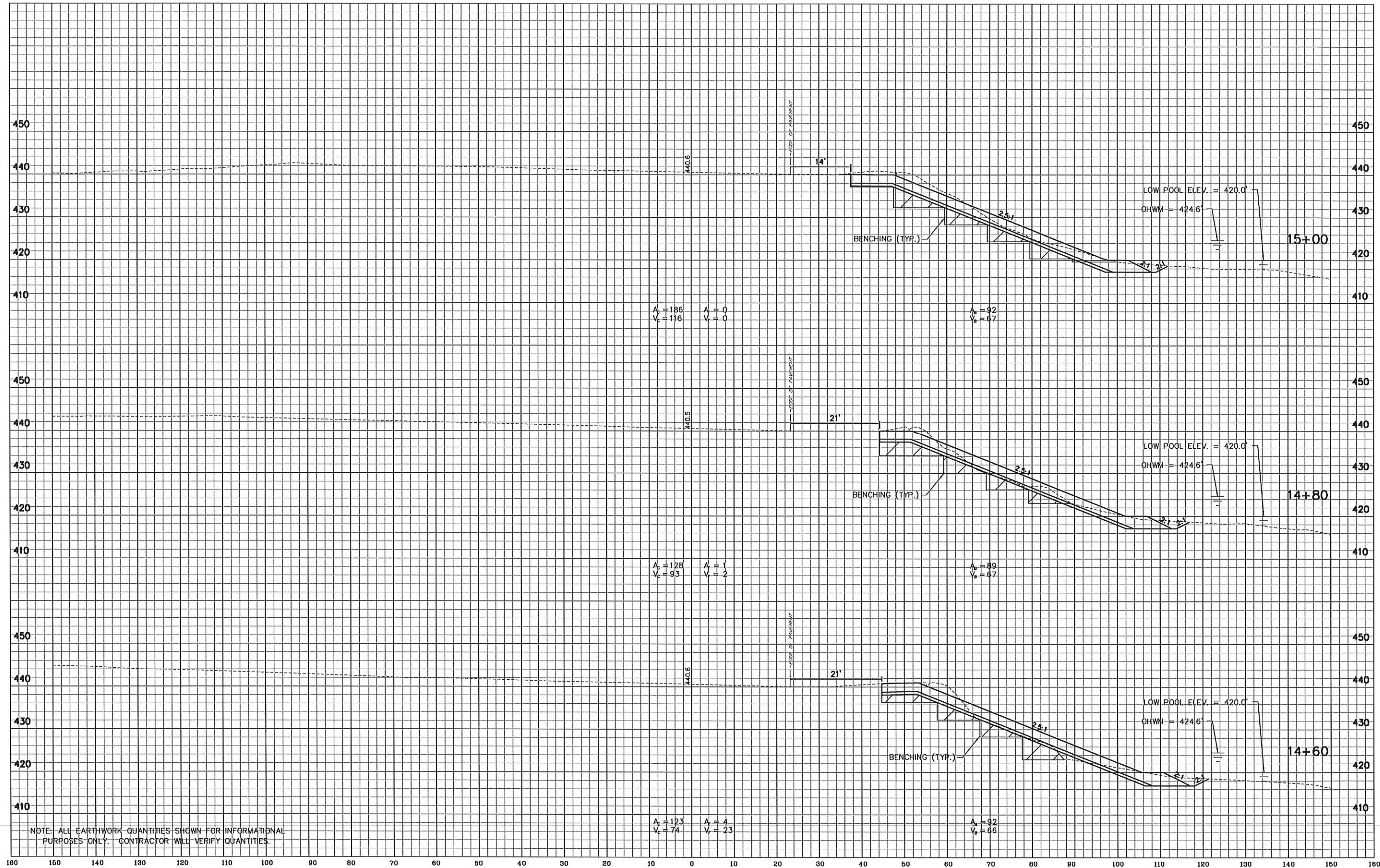
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RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		1-20-20	
DATE		DATE		DATE	
DESIGNED: DTW	DRAWN: KAM	CHECKED: DPL	CHECKED: DTW		

INDIANA
 DEPARTMENT OF NATURAL RESOURCES
 CROSS SECTION
 STA. 12+80 TO STA. 13+20 "A"

HORIZONTAL SCALE	BRIDGE FILE
VERTICAL SCALE	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
	12 of 17
CONTRACT	PROJECT
	ENG2003724395

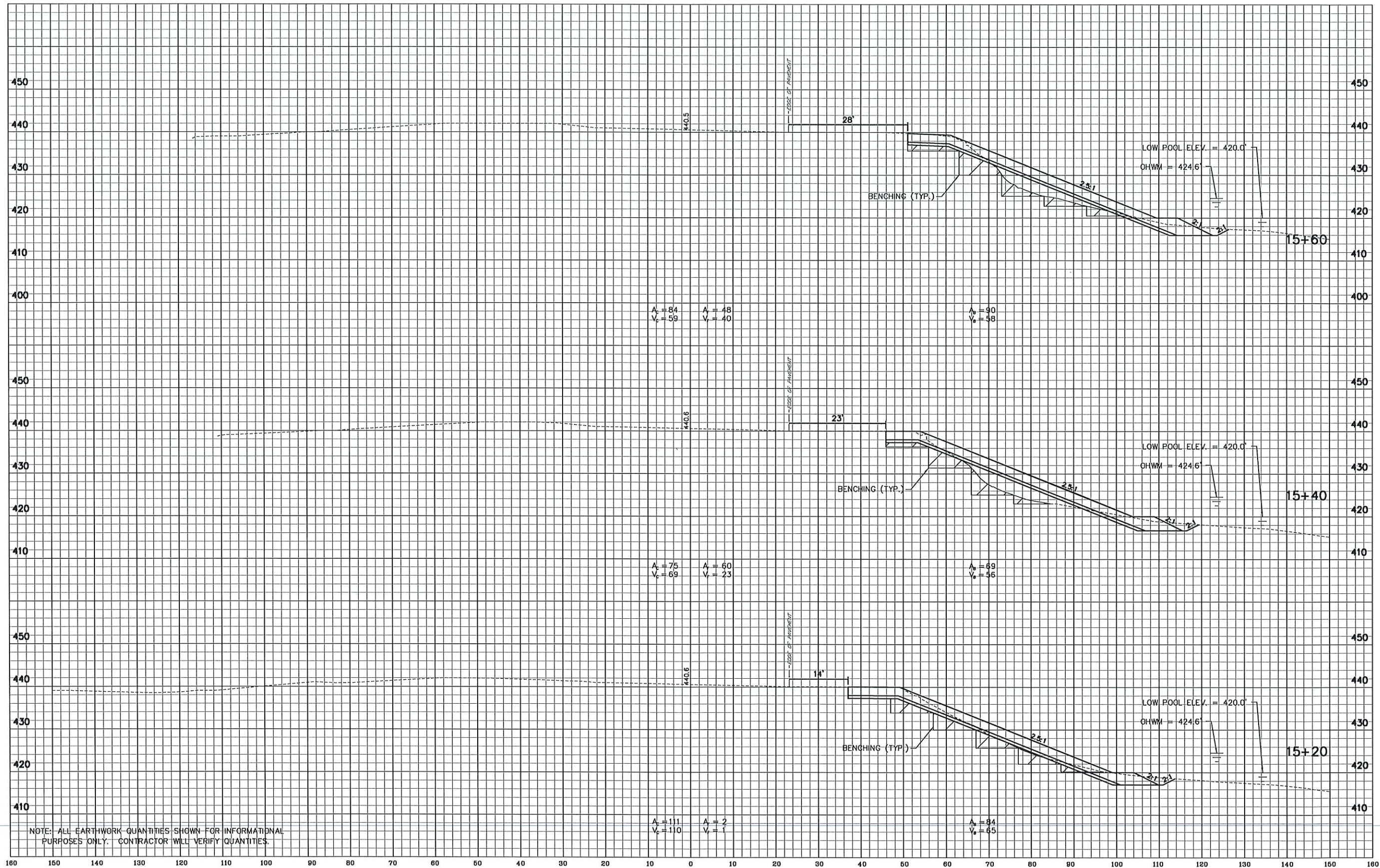


NOTE: ALL EARTHWORK QUANTITIES SHOWN FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR WILL VERIFY QUANTITIES.

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										INDIANA DEPARTMENT OF NATURAL RESOURCES		HORIZONTAL SCALE BRIDGE FILE	
										CROSS SECTION STA. 14+60 TO STA. 15+00 "A"		VERTICAL SCALE DESIGNATION N/A	
										SURVEY BOOK SHEETS 15 of 17		CONTRACT PROJECT ENG2003724395	
										RECOMMENDED FOR APPROVAL <i>Dick</i> DESIGN ENGINEER 1-20-20 DATE			
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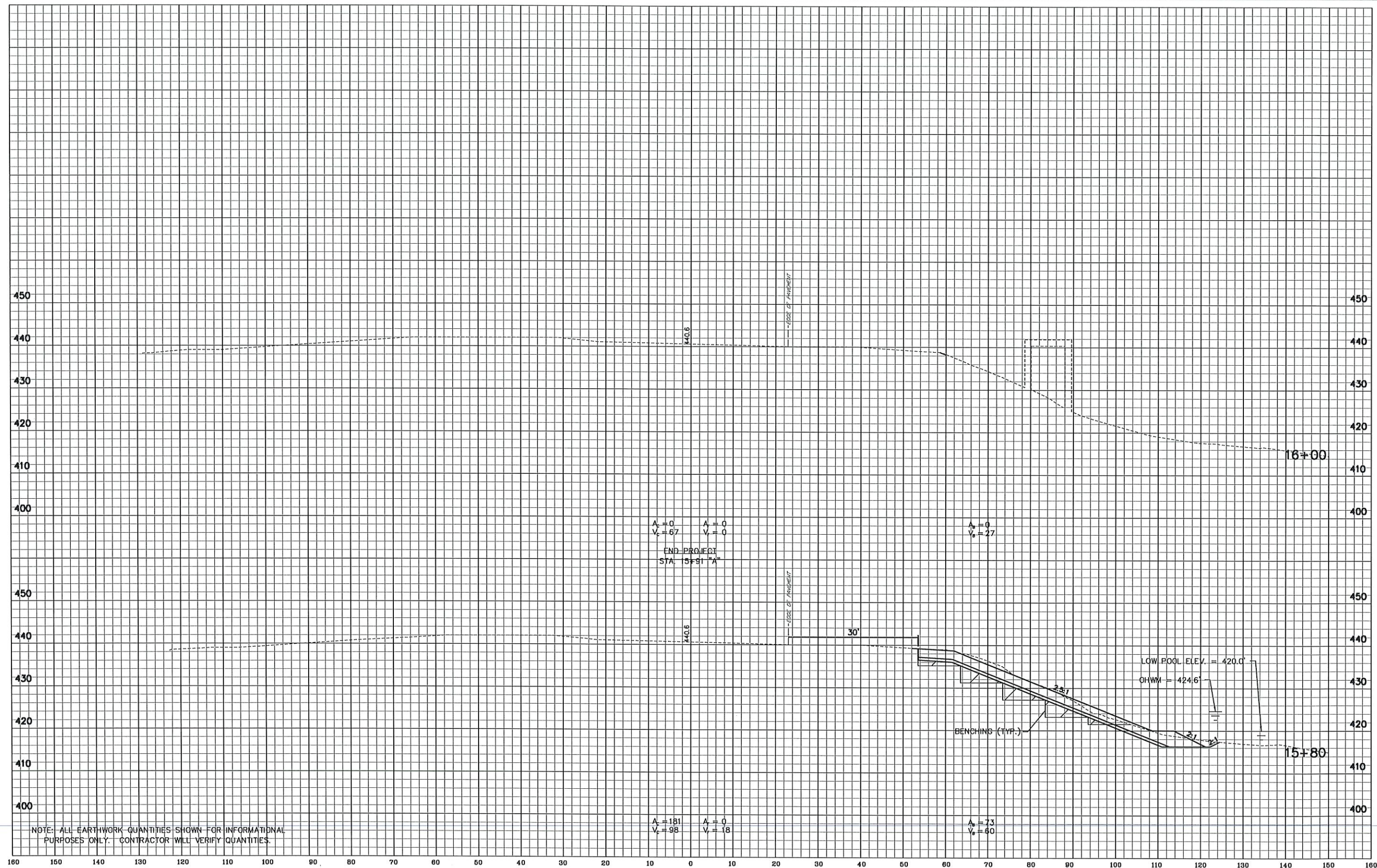


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										DESIGNED: DTW DRAWN: KAM CHECKED: DPL CHECKED: DTW		SURVEY BOOK	SHEETS 16 of 17
										CROSS SECTION STA. 15+20 TO STA. 15+60 "A"		CONTRACT	PROJECT ENG2003724395



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NOTE: ALL EARTHWORK QUANTITIES SHOWN FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR WILL VERIFY QUANTITIES.

					RECOMMENDED FOR APPROVAL <i>Dick</i> DESIGN ENGINEER 1-20-20 DATE	INDIANA DEPARTMENT OF NATURAL RESOURCES CROSS SECTION STA. 15+80 TO STA. 16+00 "A"	HORIZONTAL SCALE	BRIDGE FILE
					DESIGNED: DTW DRAWN: KAM CHECKED: DPL CHECKED: DTW		VERTICAL SCALE SURVEY BOOK CONTRACT	DESIGNATION N/A SHEETS 17 of 17 PROJECT ENG2003724395