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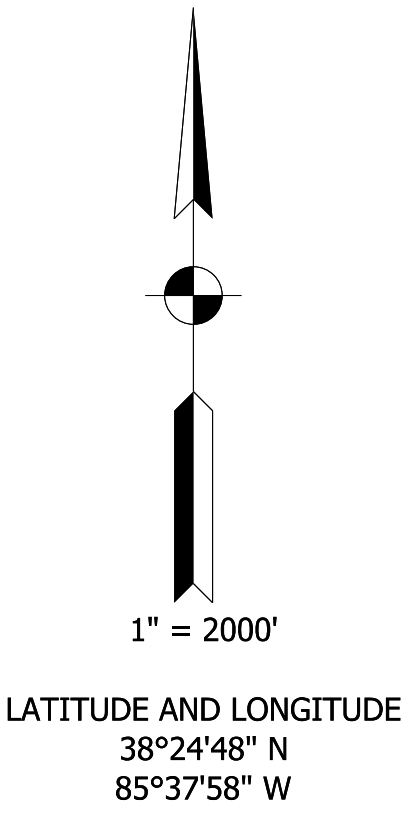
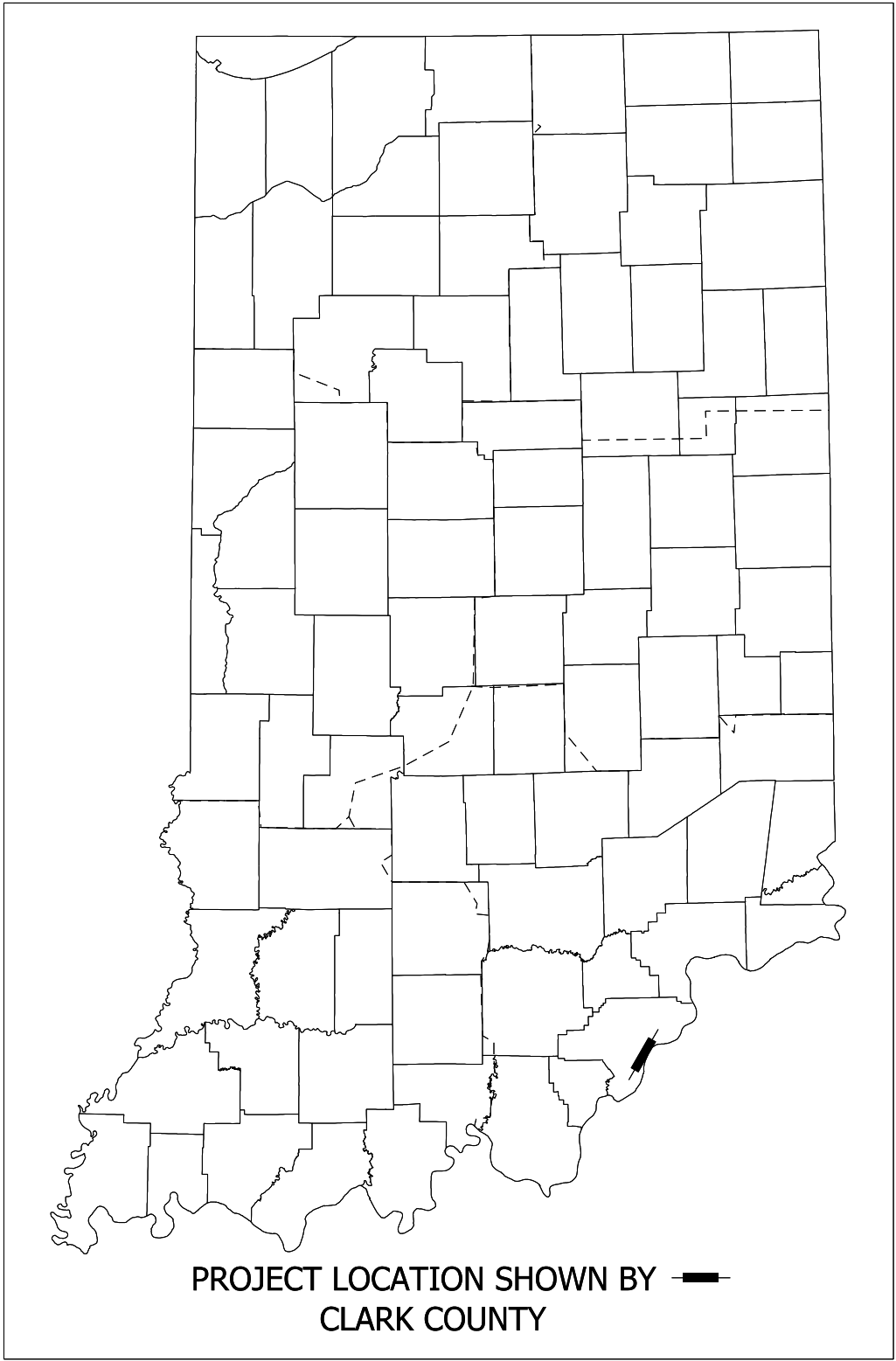
UTILITIES	
<b>COMMUNICATIONS</b> AT&T DISTRIBUTION G09871@ATT.COM	<b>ELECTRIC</b> DUKE ENERGY 100 S MILL CREEK RD. NOBLESVILLE, IN 46062 DON MCDUFFY 317-776-5320 DEI-DLINE-COORD@DUKE-ENERGY.COM
<b>WATER</b> INDIANA AMERICAN WATER RYAN MOORE 317-885-2404 INUTILITYCOORDINATION@AMWATER.COM	<b>SEWER</b> CITY OF CHARLESTOWN
UTILITIES INSIDE PARK	
<b>UTILITIES</b> CHARLESTOWN STATE PARK ATTN: JAKE SHAPLEY 260-227-1119 JSHAPLEY@DNR.IN.GOV	
FOR UNDERGROUND UTILITIES, CALL: WITHIN INDIANA 1-800-382-5544 (TOLLFREE) FROM OUTSIDE INDIANA 1-800-428-5200 (TOLLFREE)	

# INDIANA DEPARTMENT OF NATURAL RESOURCES

## CHARLESTOWN STATE PARK

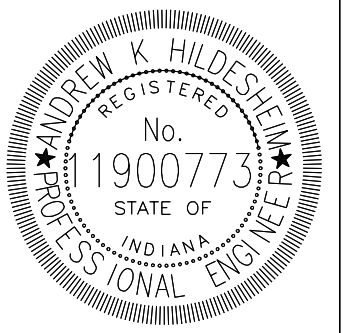
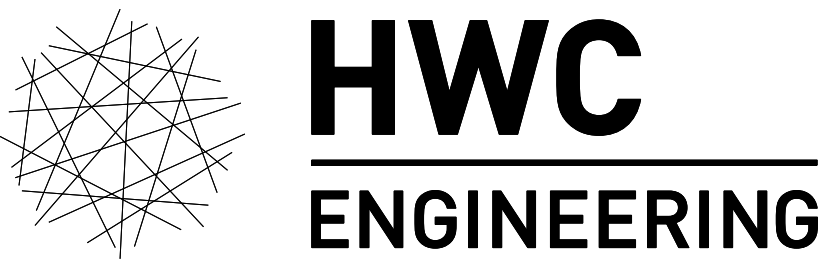
### PROJECT NO: ENG # 2403724110

**PROJECT DESCRIPTION**  
 THIS PROJECT CONSISTS OF TWO PIPE REPLACEMENTS ALONG PATROL ROAD IN CHARLESTOWN STATE PARK, CLARK COUNTY GRANT 41, CLARK COUNTY, INDIANA AND TWO PIPE REPLACEMENTS ALONG CAMPGROUND ROAD IN CHARLESTOWN STATE PARK, CLARK COUNTY GRANT 75, CLARK COUNTY, INDIANA.



INDIANA DEPARTMENT OF TRANSPORTATION  
 STANDARD SPECIFICATIONS DATED 2024  
 TO BE USED WITH THESE PLANS

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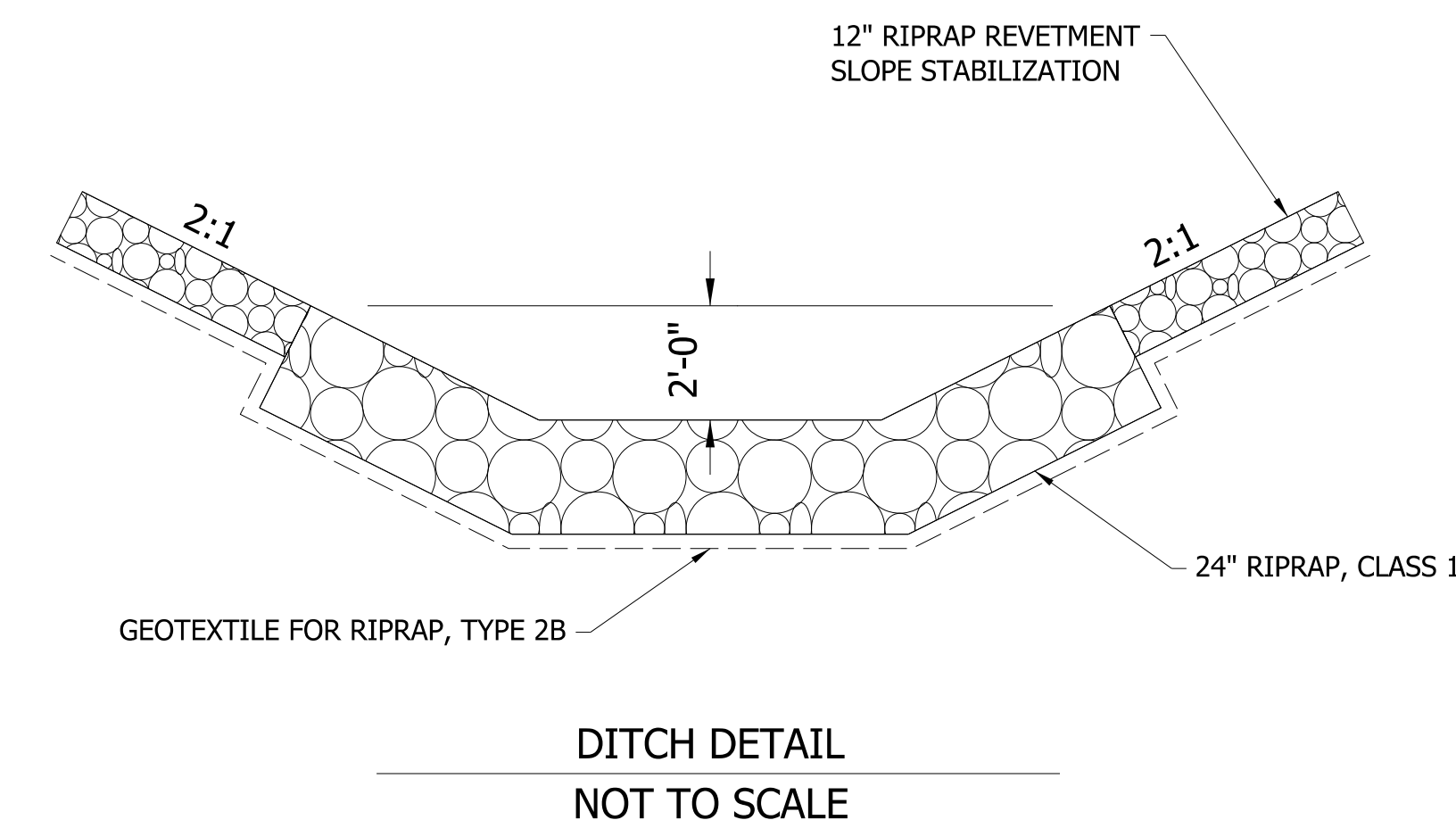
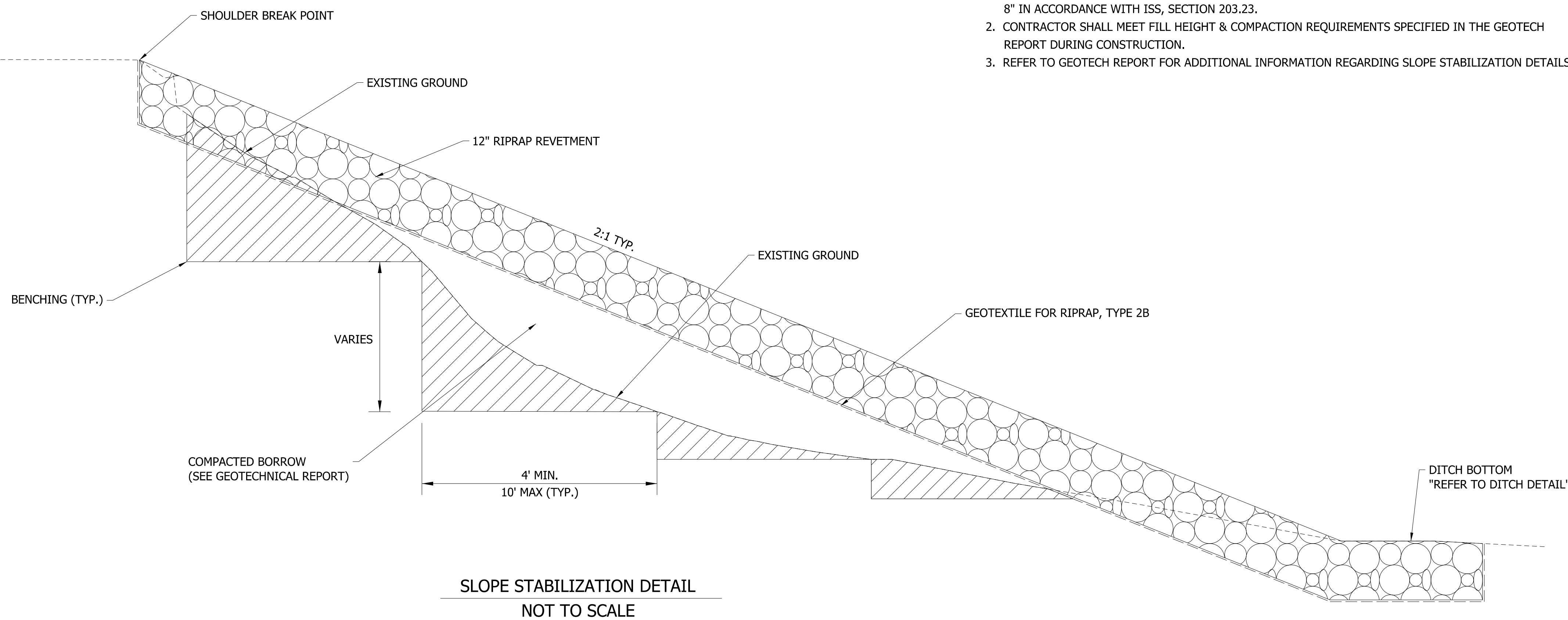


PLANS PREPARED BY:	HWC ENGINEERING	812-675-4458 PHONE NUMBER
CERTIFIED BY:	<i>Andrew K. Hildesheim</i>	12-6-24 DATE

SHEETS		
1	of	22
PROJECT		
ENG # 2403724110		

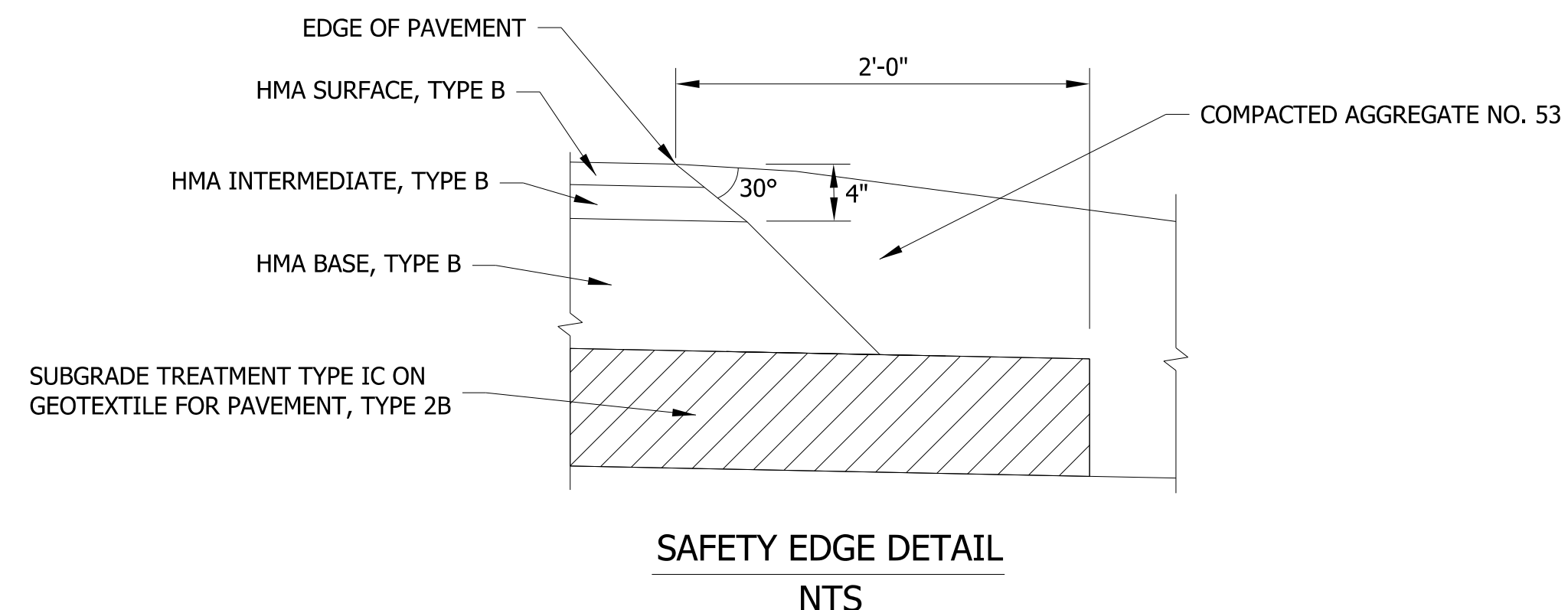
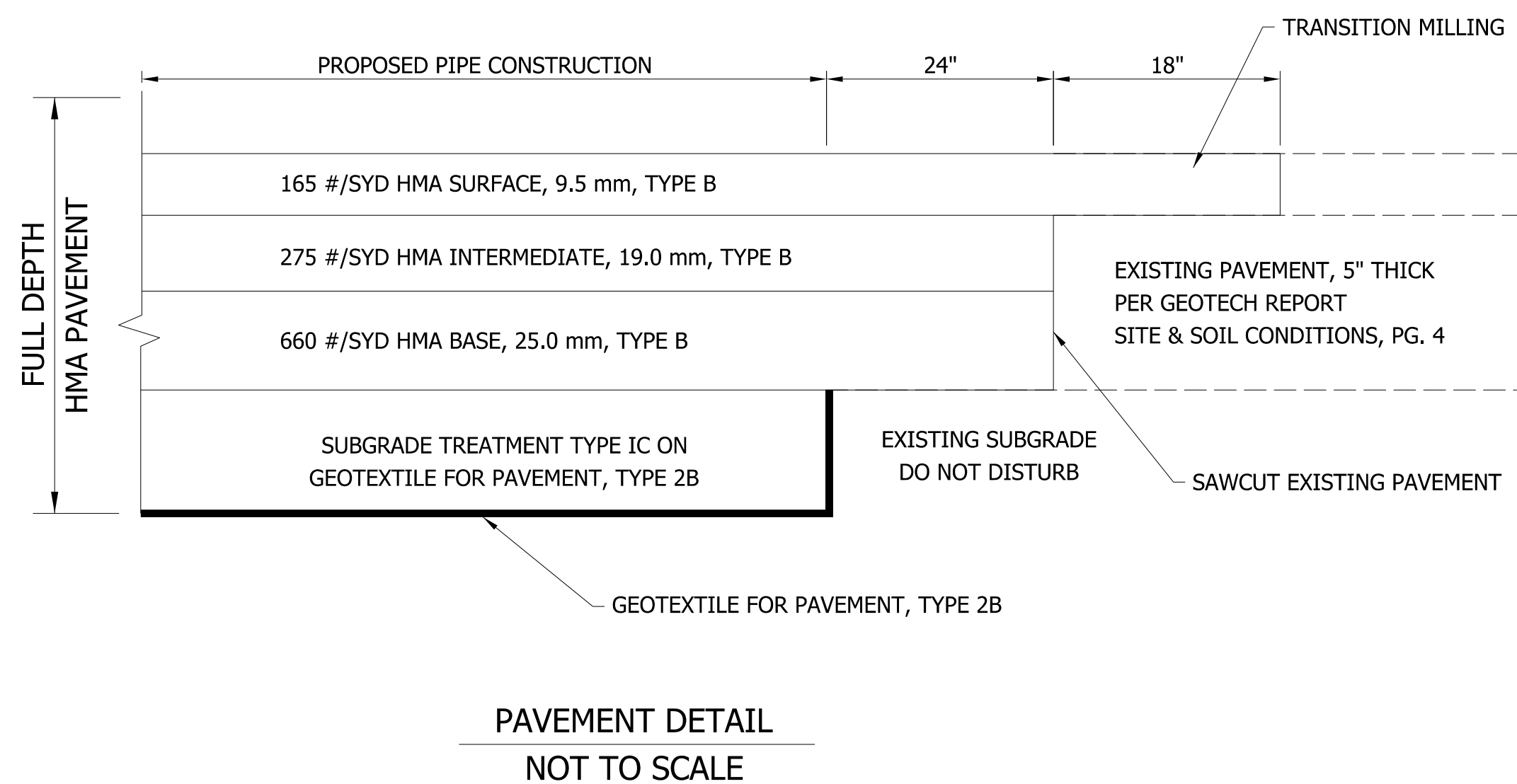
GEOTECH NOTES:

1. BACKFILL AREAS SHALL BE PLACED AND COMPACTED IN LOOSE LIFT THICKNESSES NOT TO EXCEED 8" IN ACCORDANCE WITH ISS, SECTION 203.23.
2. CONTRACTOR SHALL MEET FILL HEIGHT & COMPACTION REQUIREMENTS SPECIFIED IN THE GEOTECH REPORT DURING CONSTRUCTION.
3. REFER TO GEOTECH REPORT FOR ADDITIONAL INFORMATION REGARDING SLOPE STABILIZATION DETAILS.

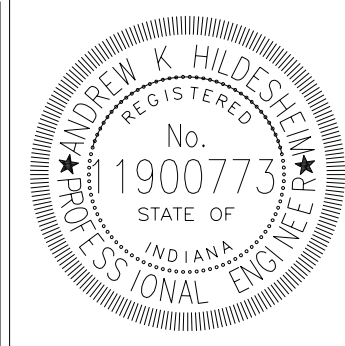


NOTE: MATCH EXISTING CROSS SLOPES WITHIN FULL DEPTH PAVEMENT REPLACEMENT LIMITS, AS SHOWN ON PLAN SHEETS. BOUNDARIES OF FULL DEPTH PAVEMENT REPLACEMENT LIMITS SHALL BE EXISTING EDGES OF PAVEMENT, AS SHOWN ON PLAN SHEETS.

CONTRACTOR SHALL COORDINATE WITH THE OWNER REGARDING LOACTIONS FOR FULL DEPTH PAVEMENT PATCHING & HMA OVERLAY, REFER TO SPECIAL PROVISIONS FOR ADDITIONAL DETAILS.



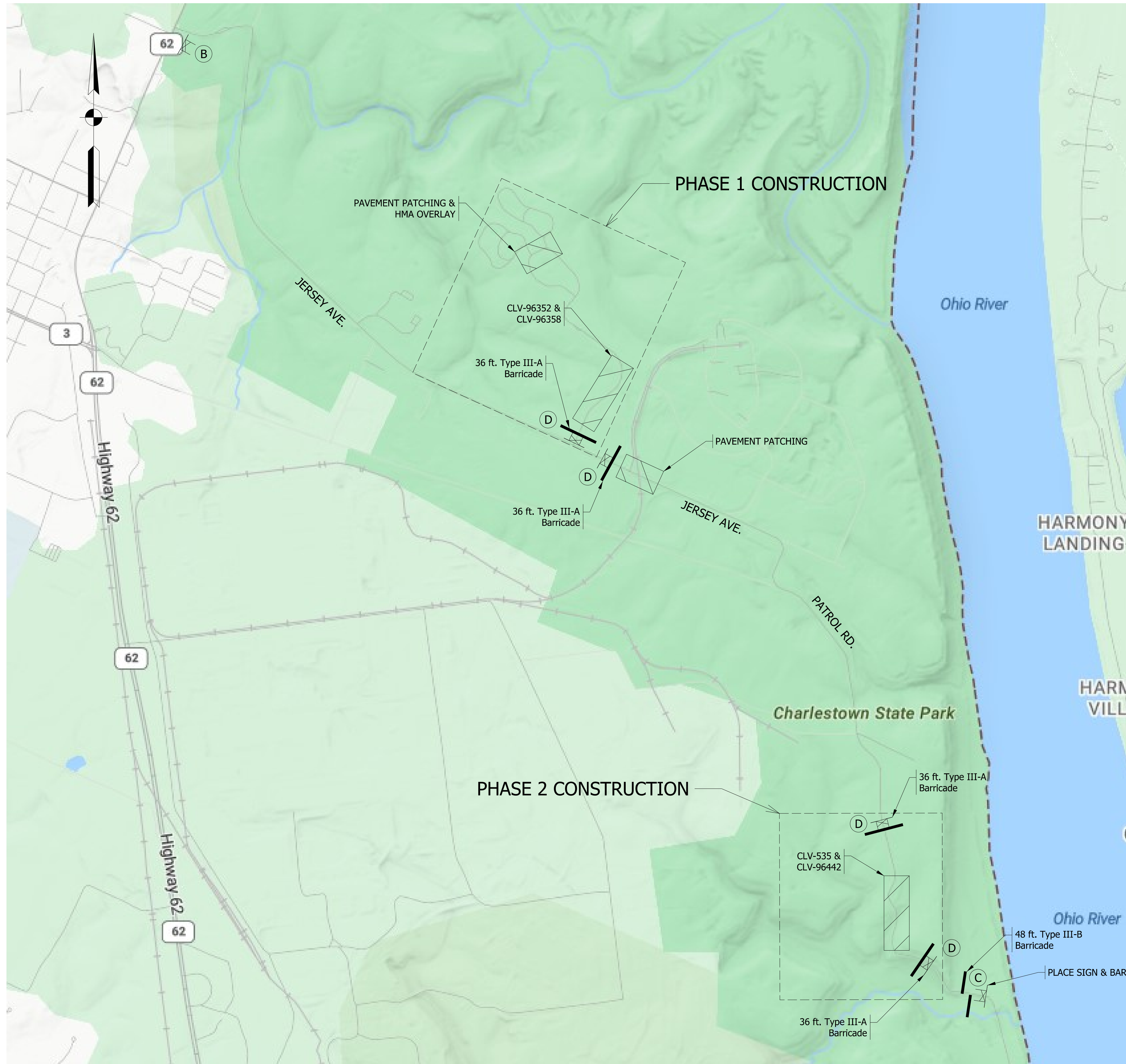
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RECOMMENDED FOR APPROVAL	<i>Andrew K. Hildesheim</i>	DESIGN ENGINEER	12/6/2024
DESIGNED:	AKH	DRAWN:	AKH
CHECKED:	DPL	CHECKED:	DPL

**INDIANA DEPARTMENT  
OF NATURAL RESOURCES**  
  
**TYPICAL SECTION &  
MISCELLANEOUS DETAILS**

HORIZONTAL SCALE	BRIDGE FILE
N/A	
VERTICAL SCALE	DESIGNATION
N/A	
SURVEY BOOK	SHEETS
	2 of 22
CONTRACT	PROJECT
	ENG # 240324110



CONSTRUCTION MOT NOTES:

1. ROAD CLOSURES SHALL TAKE PLACE BETWEEN NOVEMBER 7, 2025 THROUGH APRIL 1, 2026.

PHASE 1 CONSTRUCTION:

- 1. CLOSE ENTRANCE TO CHARLESTOWN STATE PARK CAMPING GROUNDS UTILIZING BARRICADE WITH ROAD CLOSED SIGN ASSEMBLY & PLACE ROAD CLOSED SIGN ASSEMBLY WITH BARRICADES ON JERSEY AVE., AS SHOWN ON LAYOUT DRAWING.
- 2. REMOVE & REPLACE EXISTING 21" RCP WITH 24" RCP W/ CONCRETE END SECTIONS, CLV-96352.
- 3. REMOVE & REPLACE EXISTING 30" RCP WITH 36" RCP W/ CONCRETE END SECTIONS, CLV-96358.

PHASE 2 CONSTRUCTION:

- 1. REMOVE BARRICADE & ROAD CLOSED SIGN ASSEMBLY AT ENTRANCE TO CHARLESTOWN STATE PARK CAMPING GROUNDS.
- 2. MAINTAIN ROAD CLOSED SIGN ASSEMBLY WITH BARRICADES ON JERSEY AVE., AS SHOWN ON LAYOUT DRAWING.
- 3. REMOVE & REPLACE EXISTING 30" CMP WITH 42" PIPE, TYPE 1 W/ CONCRETE END SECTIONS, CLV-535.
- 4. REMOVE & REPLACE EXISTING 36" CMP WITH 36" PIPE, TYPE 1 W/ CONCRETE END SECTIONS, CLV-96442.

PHASE 3 CONSTRUCTION:

- 1. REMOVE ALL CONSTRUCTION SIGNS FROM PROJECT.
- 2. PERFORM PAVEMENT PATCHING & HMA OVERLAY UNDER TEMPORARY ROAD CLOSURE AND FLAGGING OPERATIONS. COORDINATE WITH STATE PARK ON LOCATION OF PATCHING.

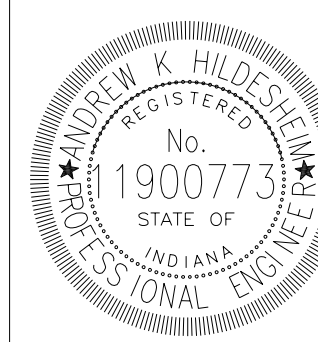


MOT LAYOUT DRAWING  
NOT TO SCALE

LEGEND



- Standard Type III-A Barricade as Required
- - Standard Type III-B Offsetting Barricades as Required



RECOMMENDED FOR APPROVAL *Colin Hildesheim* 12/6/2024 DATE  
DESIGN ENGINEER

DESIGNED: AKH DRAWN: AKH

CHECKED: DPL CHECKED: DPL

INDIANA DEPARTMENT  
OF NATURAL RESOURCES

MAINTENANCE OF TRAFFIC  
DETOUR LAYOUT

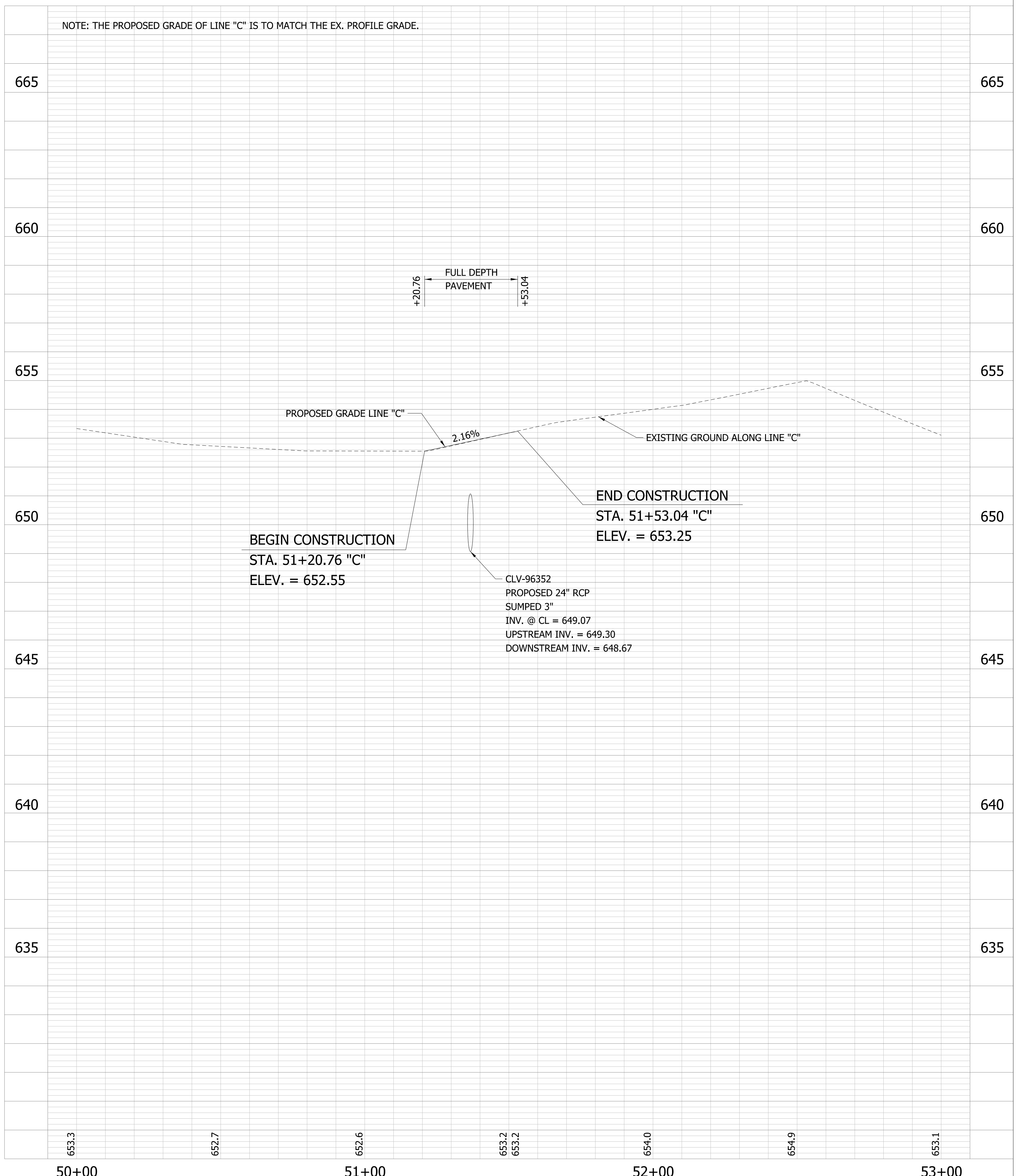
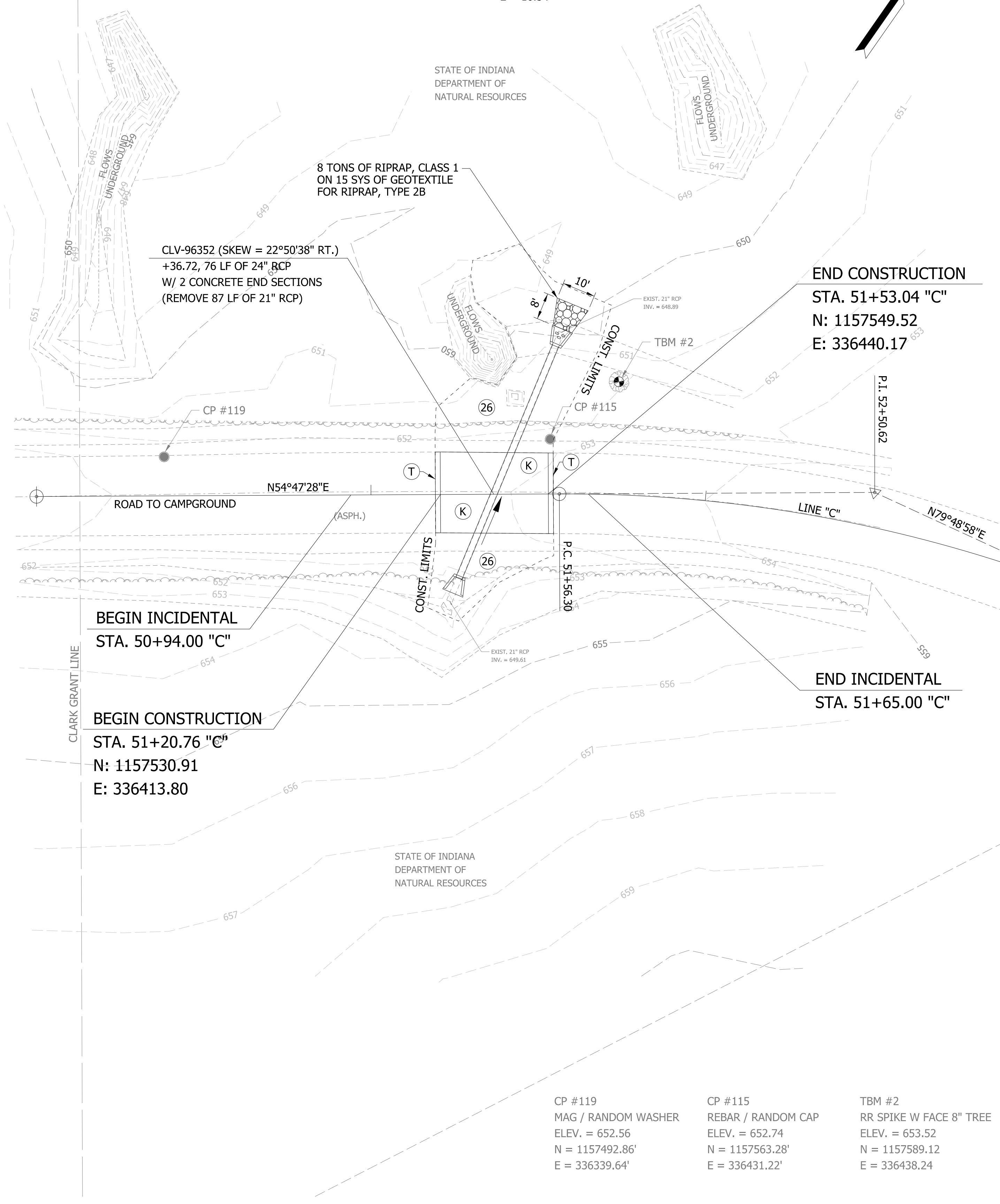
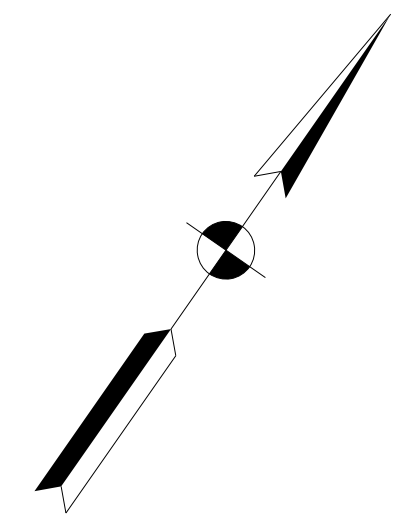
HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 2'	
SURVEY BOOK	SHEETS
	3 of 22
CONTRACT	PROJECT
	ENG # 2403724110

50+00

51+00

52+00

P.I. = 52+50.62  
N = 1157605.78  
E = 336519.90  
DELTA = 25°01'29" RT.  
D = 13°28'53"  
R = 425.00'  
T = 94.32'  
L = 185.63'  
E = 10.34'



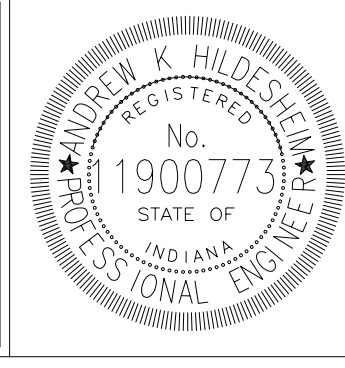
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1:20

<b>(K)</b> FULL DEPTH HMA PAVEMENT 165 LBS/SYD HMA SURFACE, 9.5 mm, TYPE B on 275 LBS/SYD HMA INTERMEDIATE, 19.0 mm, TYPE B on 660 LBS/SYD HMA BASE, 25.0 mm, TYPE B on SUBGRADE TREATMENT, TYPE IC on GEOTEXTILE FOR PAVEMENT, TYPE 2B	<b>(T)</b> TRANSITION MILLING 165 LBS/SYD HMA SURFACE, 9.5 mm, TYPE B on MILLING, ASPHALT, 1.5 IN.		
	<b>(26)</b> MULCHED SEEDING, TYPE R		

CP #119  
MAG / RANDOM WASHER  
ELEV. = 652.56  
N = 1157492.86'  
E = 336339.64'

CP #115  
REBAR / RANDOM CAP  
ELEV. = 652.74  
N = 1157563.28'  
E = 336431.22'

TBM #2  
RR SPIKE W FACE 8" TREE  
ELEV. = 653.52  
N = 1157589.12  
E = 336438.24



RECOMMENDED FOR APPROVAL  
DESIGNED: AKH  
CHECKED: DPL

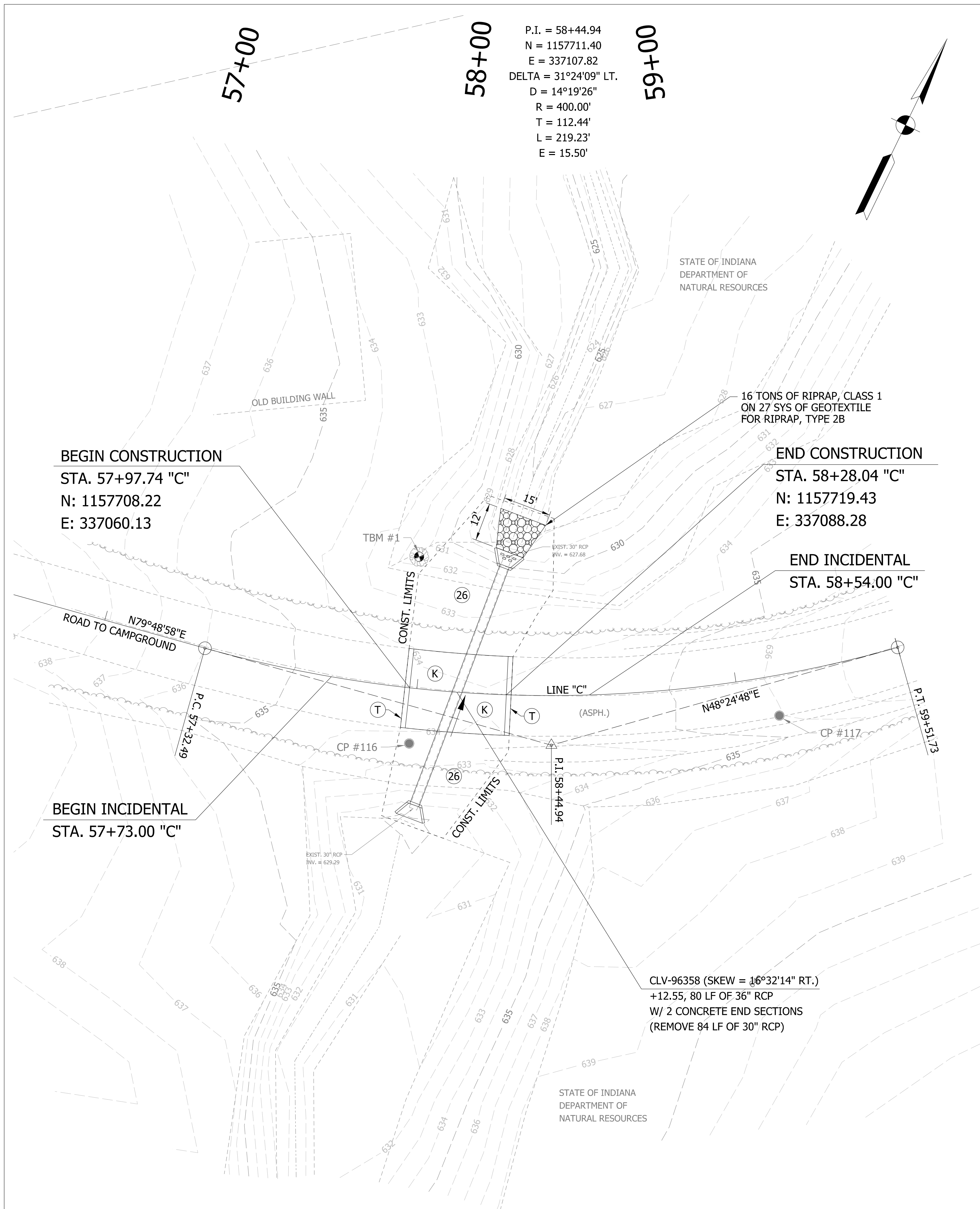
DESIGN ENGINEER  
DRAWN: AKH  
CHECKED: DPL

12/6/2024  
DATE

INDIANA DEPARTMENT OF NATURAL RESOURCES

PLAN AND PROFILE SHEET  
LINE "C" - CLV - 96352

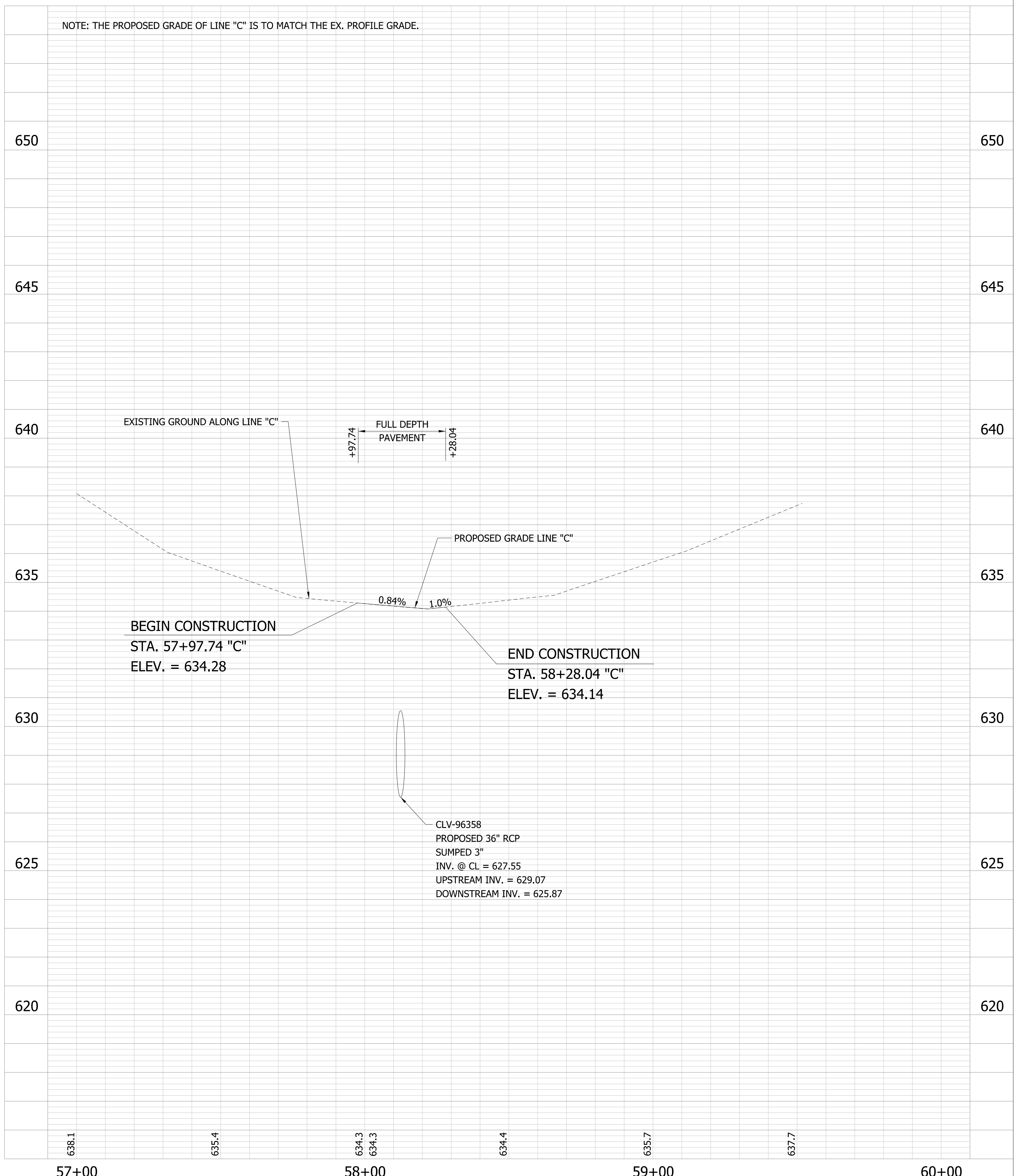
HORIZONTAL SCALE 1" = 20'	BRIDGE FILE
VERTICAL SCALE 1" = 2'	DESIGNATION
SURVEY BOOK	SHEETS
CONTRACT	4 of 22
	PROJECT
	ENG # 2403724110



TBM #1: RR SPIKE  
 W FACE 15" TREE  
 ELEV. = 632.96  
 N = 1157746.39  
 E = 337044.94

CONTROL POINT #116  
 REBAR / RANDOM CAP  
 ELEV. = 633.60  
 N = 1157692.52'  
 E = 337067.56'

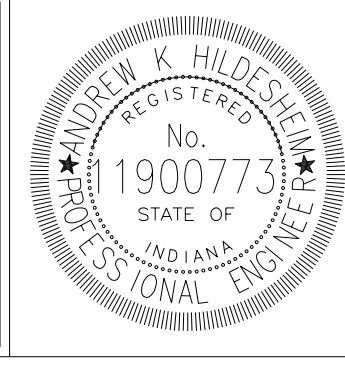
CONTROL POINT #117  
 MAG / RANDOM WASHER  
 ELEV. = 635.97  
 N = 1157750.74'  
 E = 337167.93'



57+00	58+00	59+00	60+00
638.1	635.4	634.3 634.3	637.7

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- (K) FULL DEPTH HMA PAVEMENT  
165 LBS/SYD HMA SURFACE, 9.5 mm, TYPE B on  
275 LBS/SYD HMA INTERMEDIATE, 19.0 mm, TYPE B on  
660 LBS/SYD HMA BASE, 25.0 mm, TYPE B on  
SUBGRADE TREATMENT, TYPE IC on  
GEOTEXTILE FOR PAVEMENT, TYPE 2B
- (T) TRANSITION MILLING  
165 LBS/SYD HMA SURFACE, 9.5 mm, TYPE B on  
MILLING, ASPHALT, 1.5 IN.
- (26) MULCHED SEEDING, TYPE R



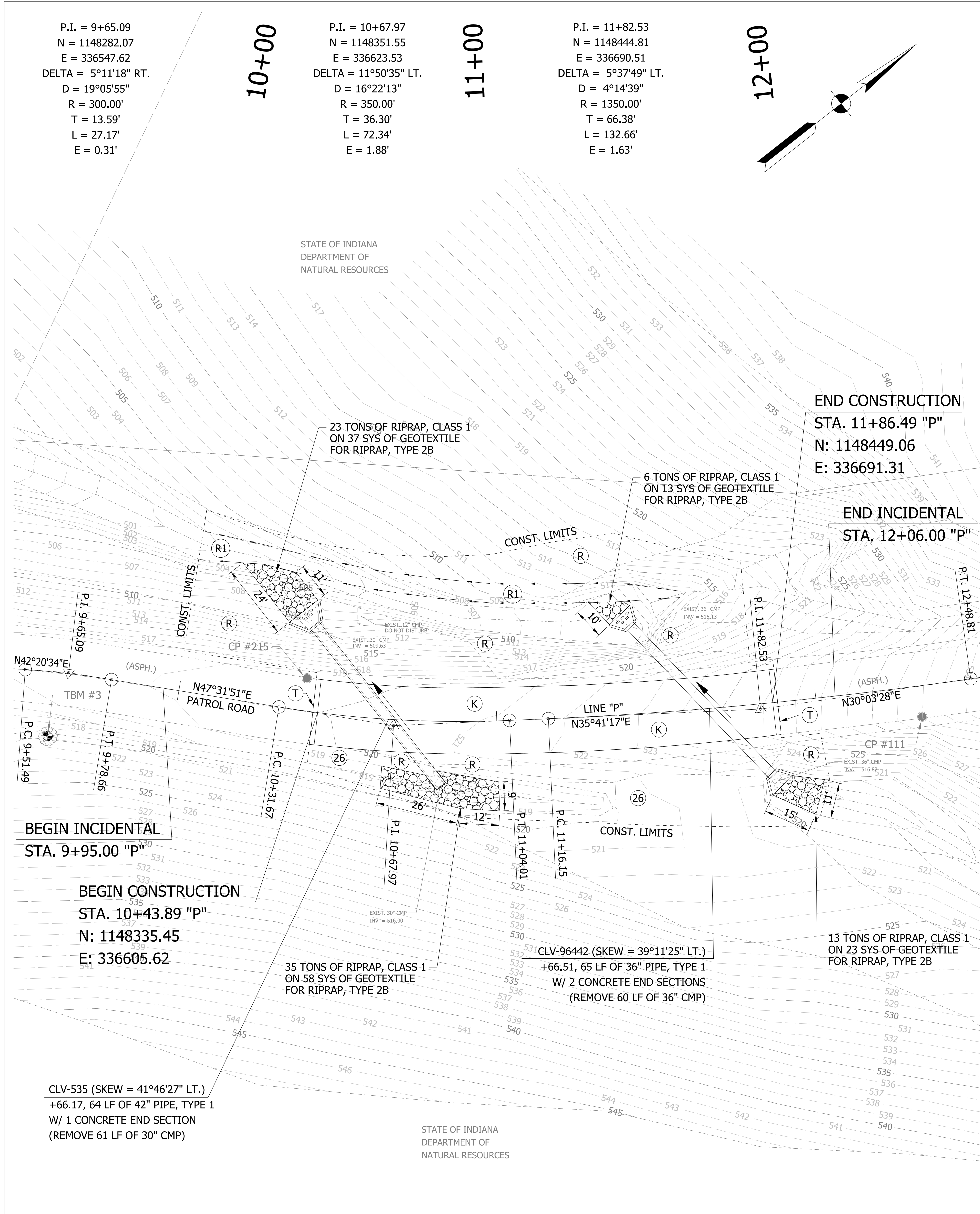
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 DESIGN ENGINEER  
 12/6/2024 DATE

DESIGNED: AKH  
 DRAWN: AKH  
 CHECKED: DPL  
 CHECKED: DPL

INDIANA DEPARTMENT  
 OF NATURAL RESOURCES

PLAN AND PROFILE SHEET  
 LINE "C" - CLV - 96358

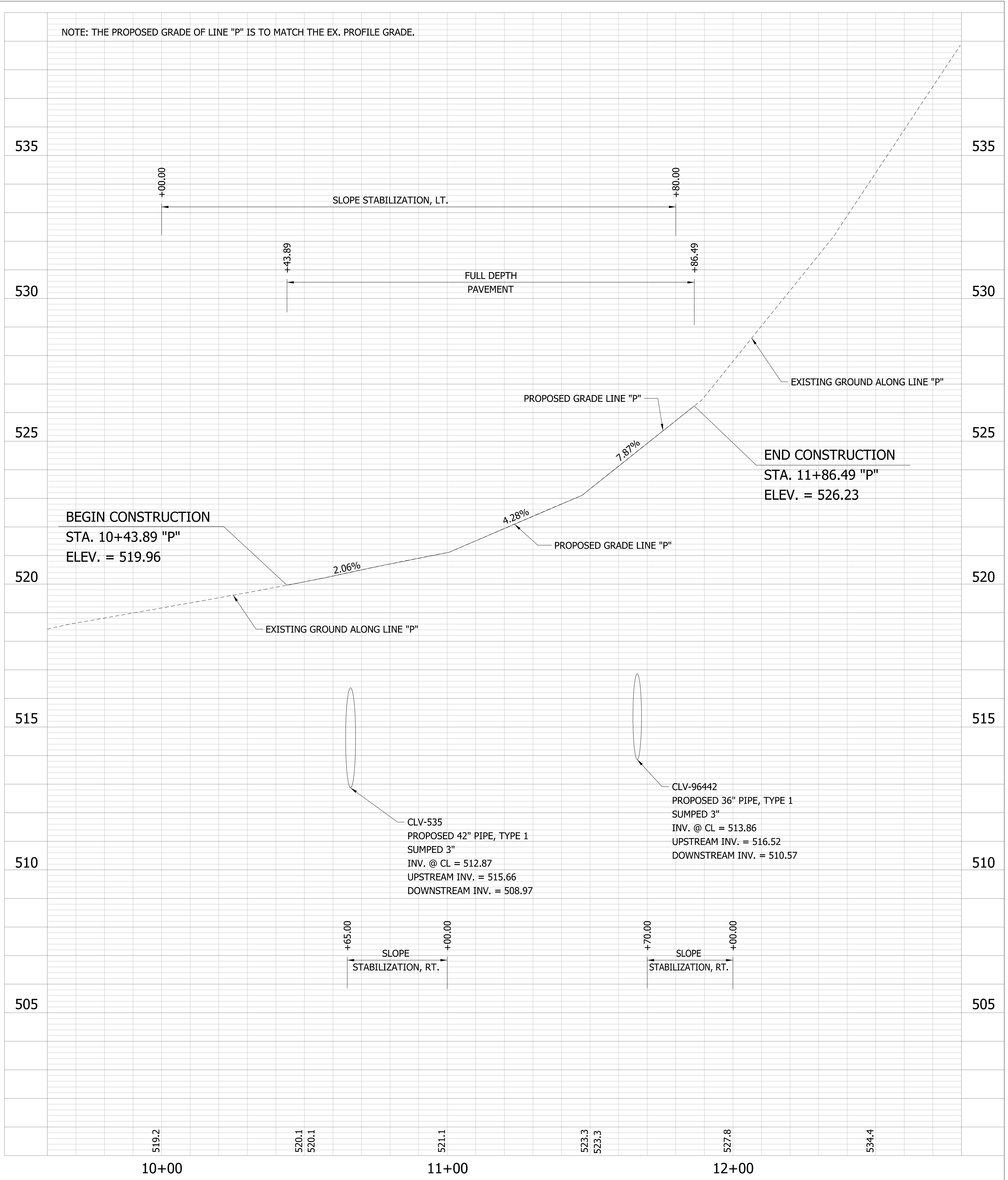
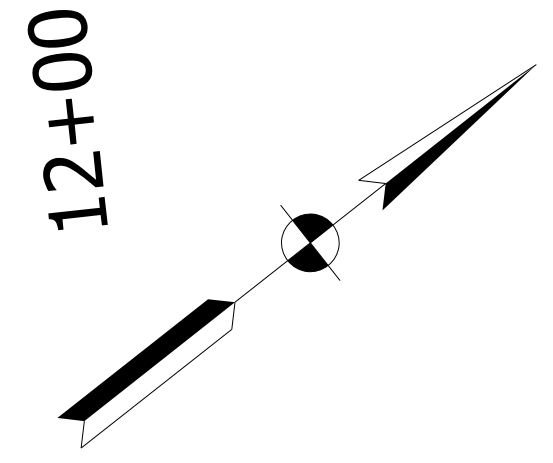
HORIZONTAL SCALE 1" = 20'	BRIDGE FILE
VERTICAL SCALE 1" = 2'	DESIGNATION
SURVEY BOOK	SHEETS
CONTRACT	5 of 22
	PROJECT
	ENG # 2403724110



P.I. = 9+65.09  
 N = 1148282.07  
 E = 336547.62  
 DELTA = 5°11'18" RT.  
 D = 19°05'55"  
 R = 300.00'  
 T = 13.59'  
 L = 27.17'  
 E = 0.31'

P.I. = 10+67.97  
 N = 1148351.55  
 E = 336623.53  
 DELTA = 11°50'35" LT.  
 D = 16°22'13"  
 R = 350.00'  
 T = 36.30'  
 L = 72.34'  
 E = 1.88'

P.I. = 11+82.53  
 N = 1148444.81  
 E = 336690.51  
 DELTA = 5°37'49" LT.  
 D = 4°14'39"  
 R = 1350.00'  
 T = 66.38'  
 L = 132.66'  
 E = 1.63'



NOTE: THE PROPOSED GRADE OF LINE "P" IS TO MATCH THE EX. PROFILE GRADE.

BEGIN CONSTRUCTION  
 STA. 10+43.89 "P"  
 ELEV. = 519.96

END CONSTRUCTION  
 STA. 11+86.49 "P"  
 ELEV. = 526.23

CLV-535  
 PROPOSED 42" PIPE, TYPE 1  
 SUMPED 3"  
 INV. @ CL = 512.87  
 UPSTREAM INV. = 515.66  
 DOWNSTREAM INV. = 508.97

CLV-96442  
 PROPOSED 36" PIPE, TYPE 1  
 SUMPED 3"  
 INV. @ CL = 513.86  
 UPSTREAM INV. = 516.52  
 DOWNSTREAM INV. = 510.57

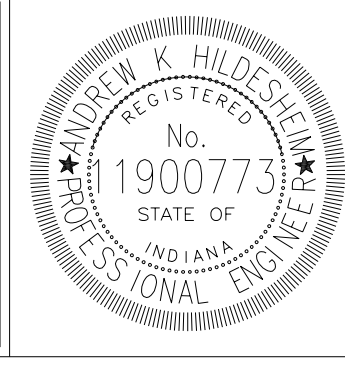
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- (K) FULL DEPTH HMA PAVEMENT  
 165 LBS/SYD HMA SURFACE, 9.5 mm, TYPE B on  
 275 LBS/SYD HMA INTERMEDIATE, 19.0 mm, TYPE B on  
 660 LBS/SYD HMA BASE, 25.0 mm, TYPE B on  
 SUBGRADE TREATMENT, TYPE IC on  
 GEOTEXTILE FOR PAVEMENT, TYPE 2B
- (T) TRANSITION MILLING  
 165 LBS/SYD HMA SURFACE, 9.5 mm, TYPE B on  
 MILLING, ASPHALT, 1.5 IN.
- (R) RIPRAP REVETMENT (12") ON  
 GEOTEXTILE FOR RIPRAP TYPE 2B
- (R1) RIPRAP CLASS TYPE 1 (24") ON  
 GEOTEXTILE FOR RIPRAP TYPE 2B
- (26) MULCHED SEEDING, TYPE R

CONTROL POINT #111  
 MAG / RANDOM WASHER  
 ELEV. = 531.99  
 N = 1148483.06  
 E = 336723.67

TBM #3  
 BENCH SPK & TAG  
 W FACE 36" TREE  
 ELEV. = 523.01  
 N = 1148264.68  
 E = 336559.15

CONTROL POINT #215  
 MAG / RANDOM WASHER  
 ELEV. = 519.49  
 N = 1148339.45  
 E = 336595.15



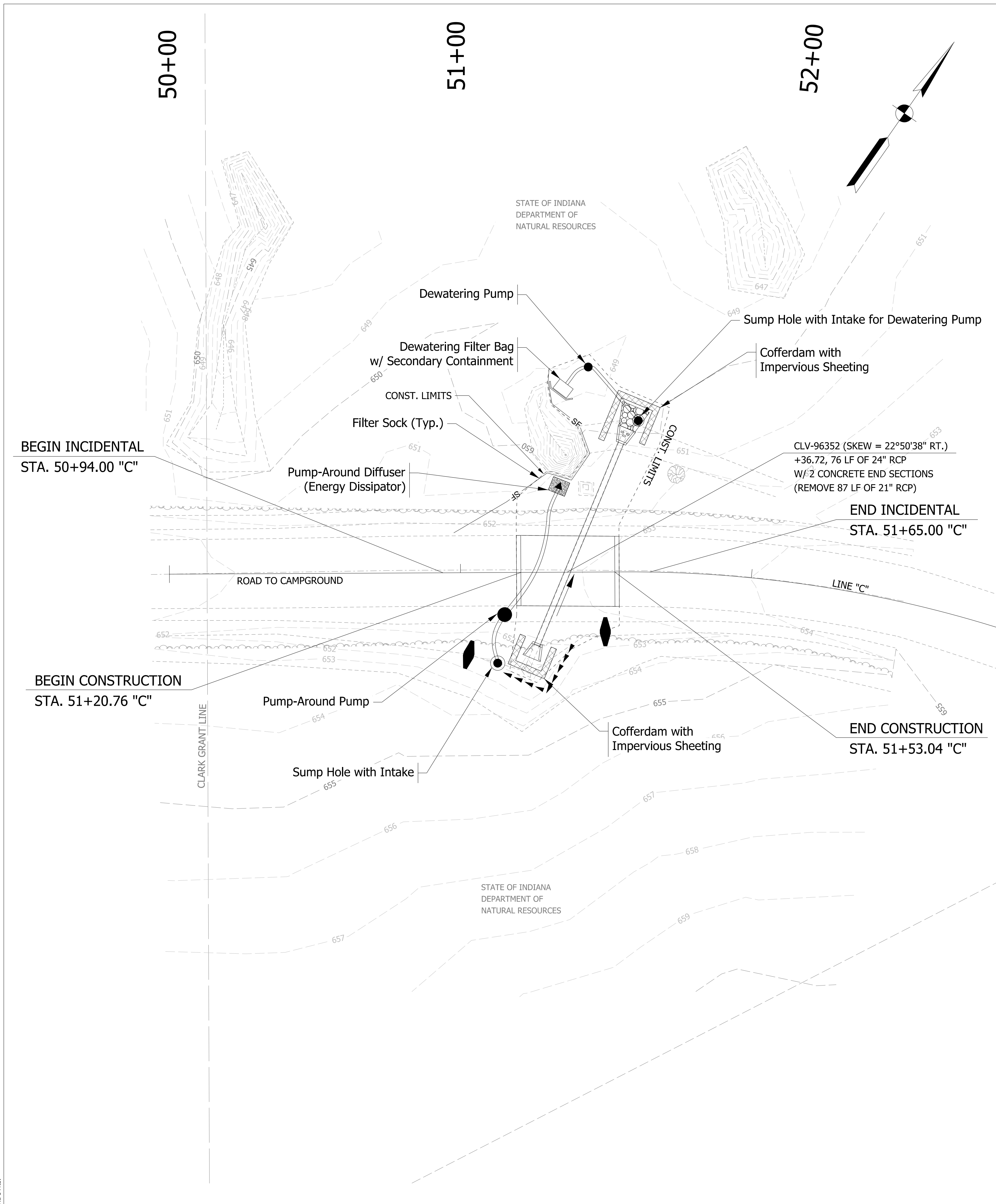
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*Andrew Hildebrand*  
 DESIGN ENGINEER  
 12/6/2024 DATE

DESIGNED: AKH DRAWN: AKH  
 CHECKED: DPL CHECKED: DPL

INDIANA DEPARTMENT  
 OF NATURAL RESOURCES

PLAN AND PROFILE SHEET  
 LINE "P" - CLV - 535 & CLV - 96442

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE
VERTICAL SCALE 1" = 2'	DESIGNATION
SURVEY BOOK	SHEETS
CONTRACT	6 of 22
	PROJECT
	ENG # 2403724110



CLV-96352 (SKEW = 22°50'38" RT.)  
 +36.72, 76 LF OF 24" RCP  
 W/ 2 CONCRETE END SECTIONS  
 (REMOVE 87 LF OF 21" RCP)

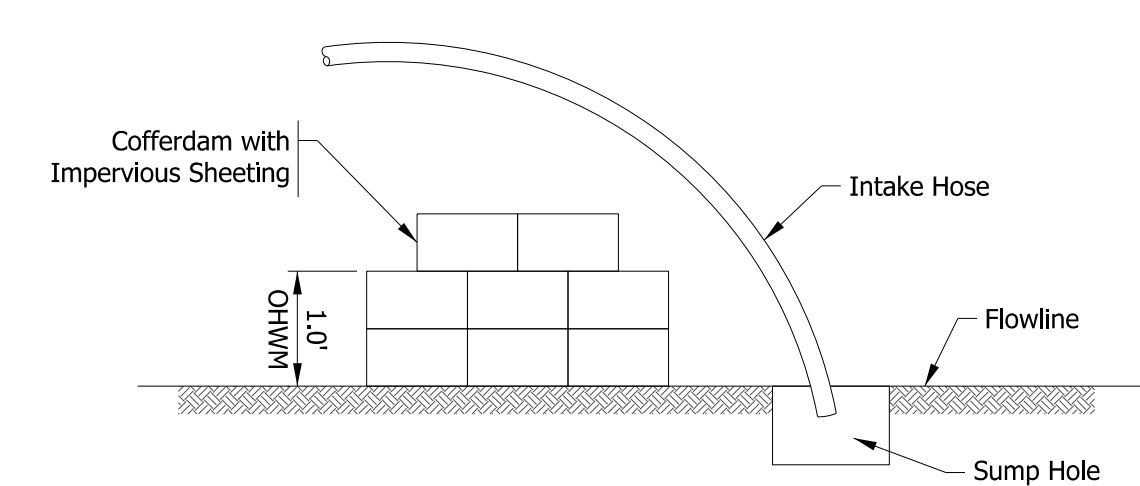
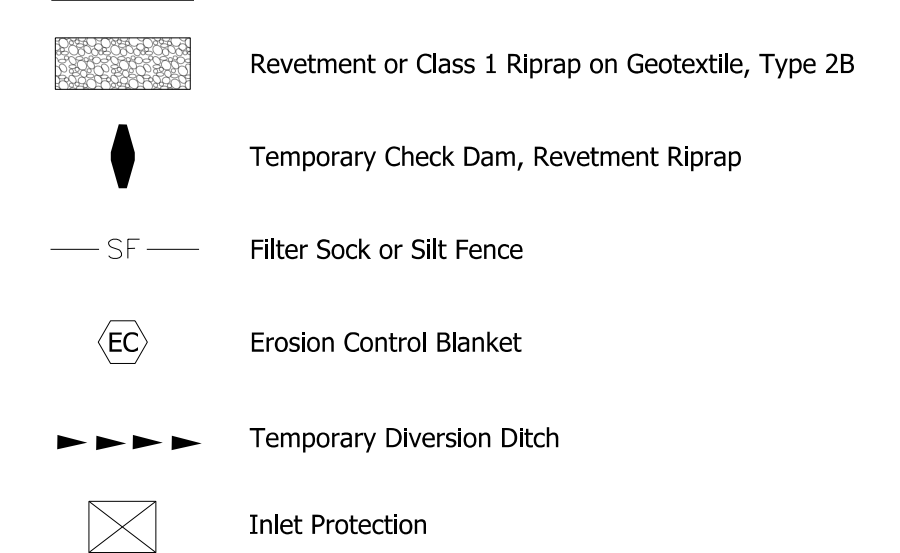
#### EROSION CONTROL NOTES

- Erosion Control Blanket shall be placed on all graded slopes 3:1 and steeper and in concentrated flow areas (i.e. roadside ditches).
- Permanent Seeding and Mulching to be placed on all disturbed areas, unless noted otherwise. Native Wetland Seed Mix shall be used in disturbed areas of wetlands. Protect existing inlets with Inlet Protection where there is potential to be impacted by sediment and/or debris from construction. Inlet Protection must be below grate with overflow capacity.
- See plans for final placement of Riprap.
- Do not disturb wetlands outside of construction limits.

#### PUMP-AROUND NOTES

- Adjust outlet stabilization if bank erosion is present.
- Adjust Pump capacity as necessary to handle stream water volume.
- Repair leaks and/or otherwise stabilize Cofferdams if water is back flowing into work area.
- Pump Around discharge shall not be outletted directly into stream.

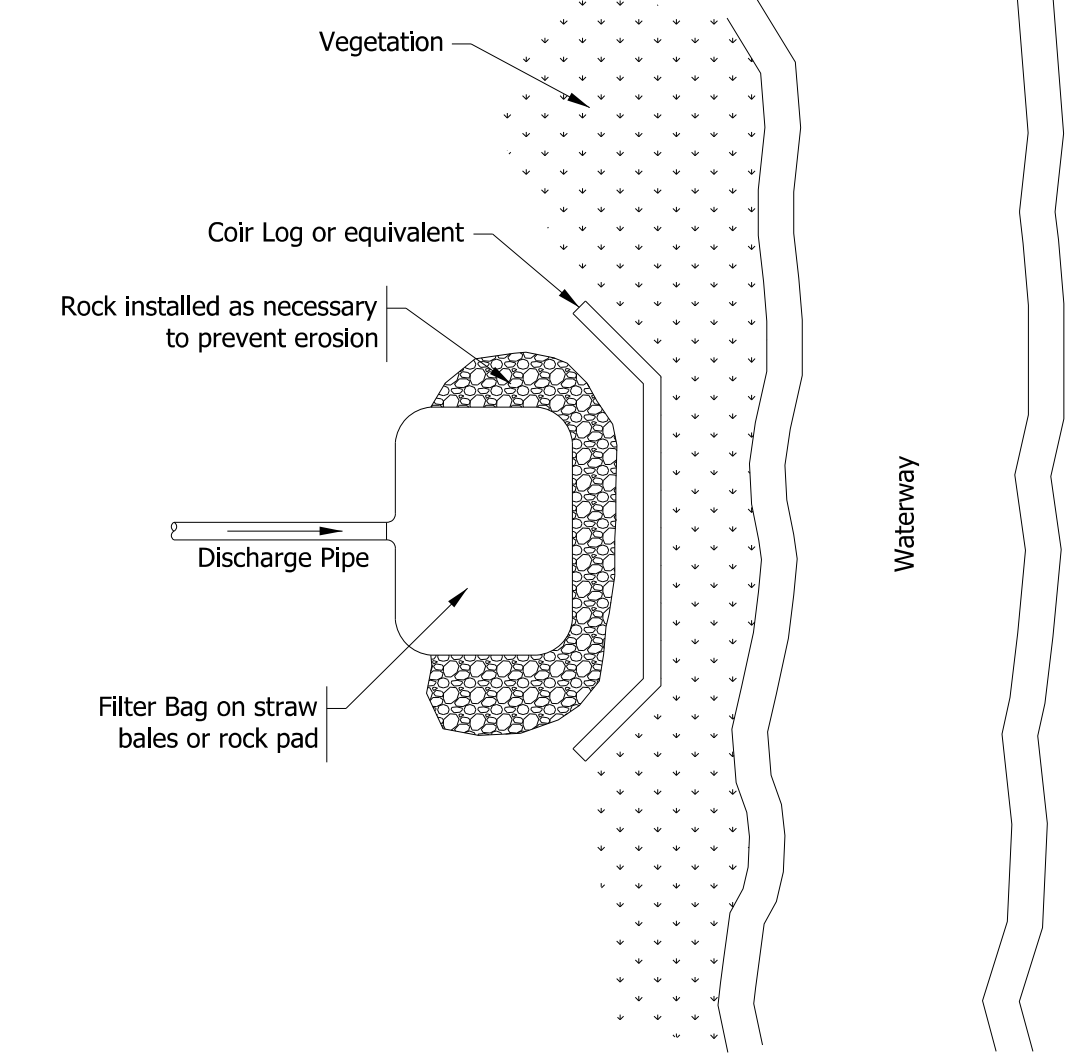
#### LEGEND



COFFERDAM / SUMP HOLE WORK AREA DETAIL  
Not to Scale

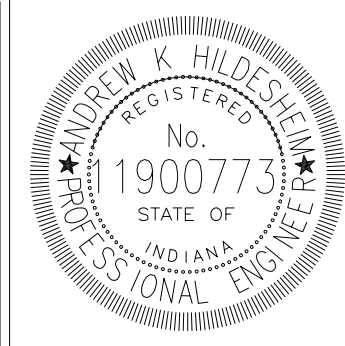
#### DEWATERING INSTALLATION NOTES

- The Contractor shall provide, operate, and maintain Dewatering Systems of sufficient size and capacity to permit excavation and subsequent construction in dry conditions.
- The Contractor shall inspect dewatering setups each workday and maintain for effective operating condition. Maintenance of dewatering setups should be proactive, not reactive. Inspect as soon as possible (and always within 24 hours) following a storm that causes surface erosion, and perform necessary maintenance.
- Where dewatering setup has failed, repair or replacement should be initiated upon discovery of the failure.
- Dewatering setup to be removed after work in waterway is complete.
- Area to be stabilized with riprap, where riprap from dewatering setup can be incorporated into final, permanent riprap or with INDOT seed mix type R.
- The Contractor must use filter bags for dewatering trenches. Filter bag shall be placed as far downstream as possible, on level pad, discharging to a ditch and not directly into a storm sewer.



DEWATERING FILTER BAG DETAIL  
Not to Scale

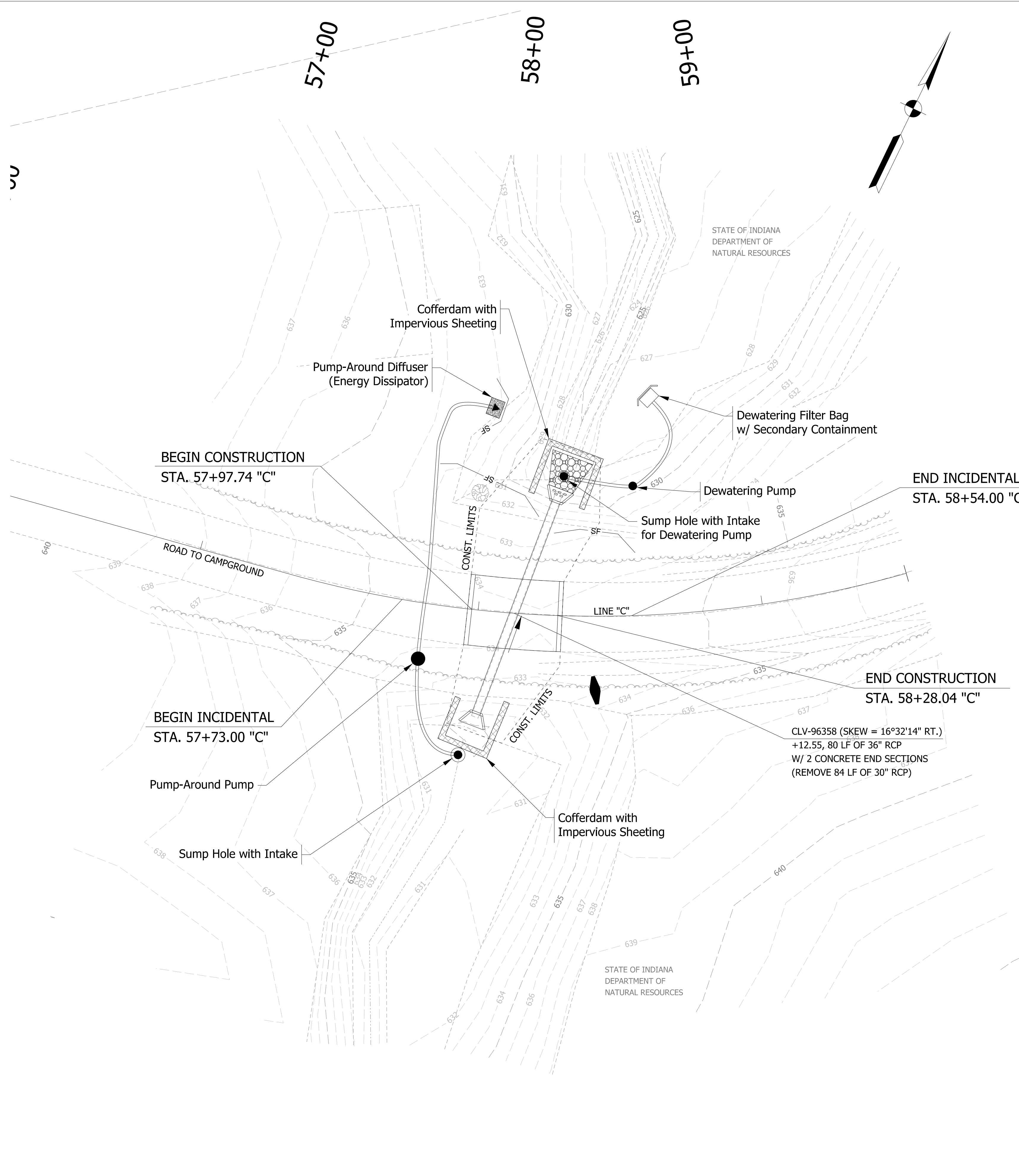
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 INCORPORATED



RECOMMENDED FOR APPROVAL	<i>Andrew Hildesheim</i>	DESIGN ENGINEER	12/6/2024	DATE
DESIGNED:	AKH	DRAWN:	AKH	
CHECKED:	DPL	CHECKED:	DPL	

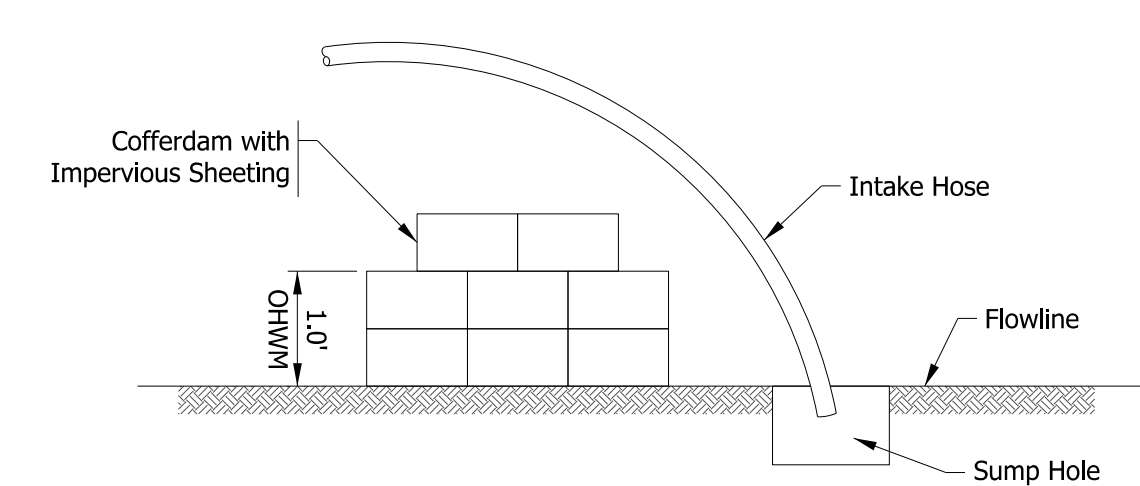
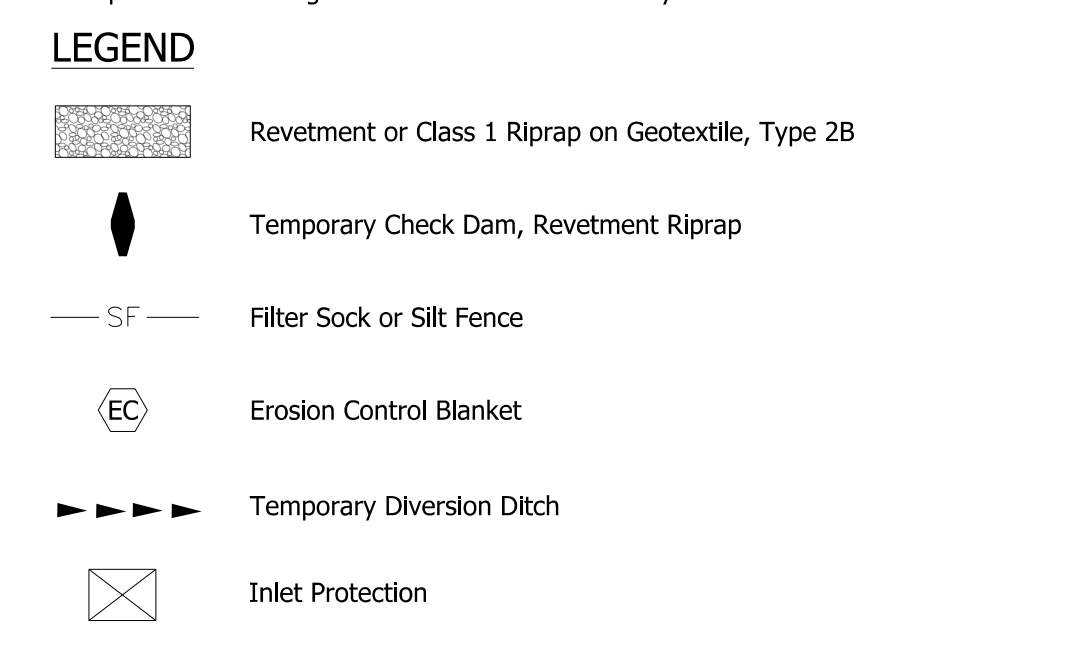
INDIANA DEPARTMENT OF NATURAL RESOURCES  
 EROSION CONTROL SHEET  
 LINE "C" - CLV - 96352

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
N/A	
SURVEY BOOK	SHEETS
	7 of 22
CONTRACT	PROJECT
	ENG # 240324110



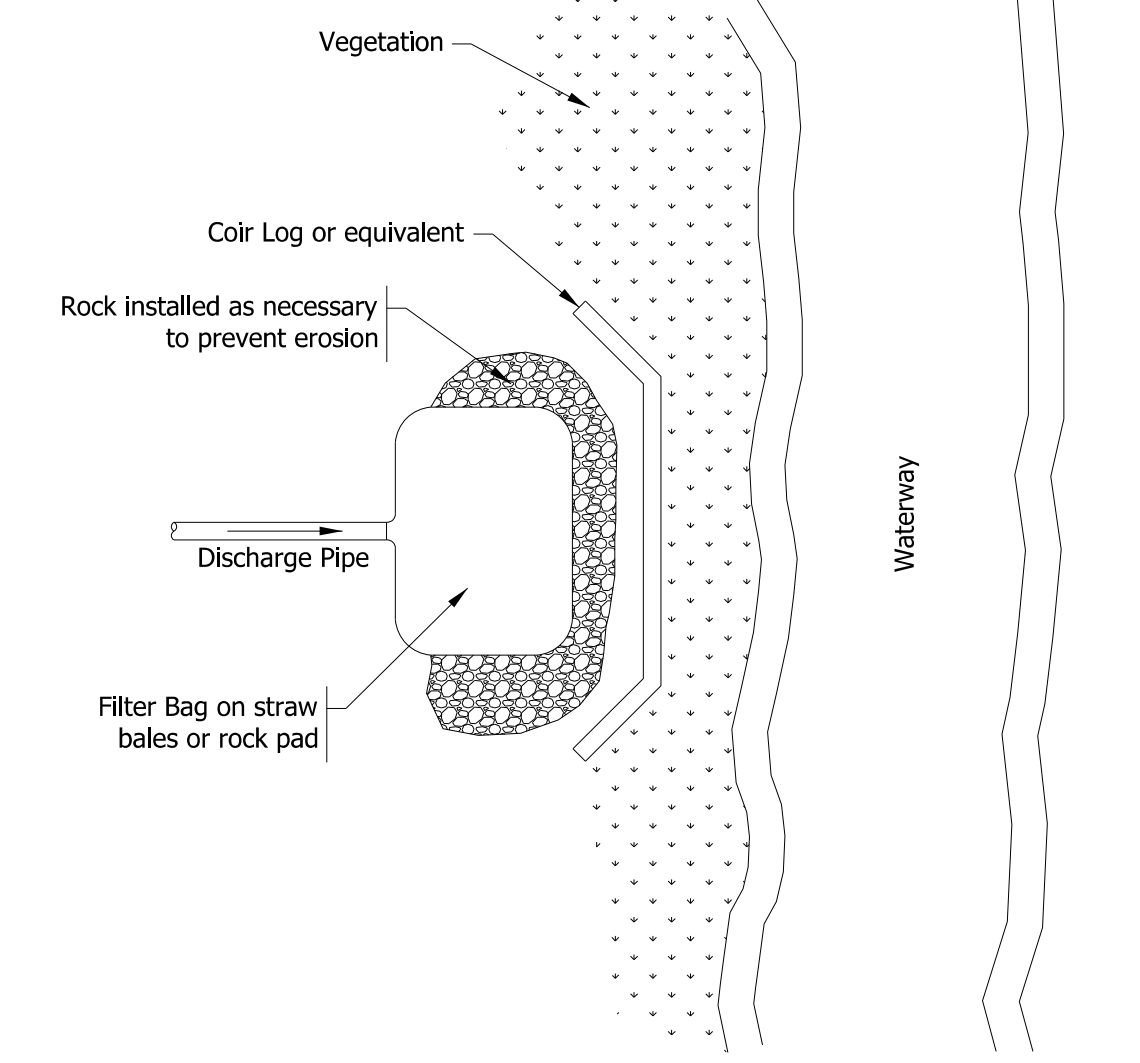
- ### EROSION CONTROL NOTES
- Erosion Control Blanket shall be placed on all graded slopes 3:1 and steeper and in concentrated flow areas (i.e. roadside ditches).
  - Permanent Seeding and Mulching to be placed on all disturbed areas, unless noted otherwise. Native Wetland Seed Mix shall be used in disturbed areas of wetlands.
  - Protect existing inlets with Inlet Protection where there is potential to be impacted by sediment and/or debris from construction. Inlet Protection must be below grate with overflow capacity.
  - See plans for final placement of Riprap.
  - Do not disturb wetlands outside of construction limits.

- ### PUMP-AROUND NOTES
- Adjust outlet stabilization if bank erosion is present.
  - Adjust Pump capacity as necessary to handle stream water volume.
  - Repair leaks and/or otherwise stabilize Cofferdams if water is back flowing into work area.
  - Pump Around discharge shall not be outleted directly into stream.



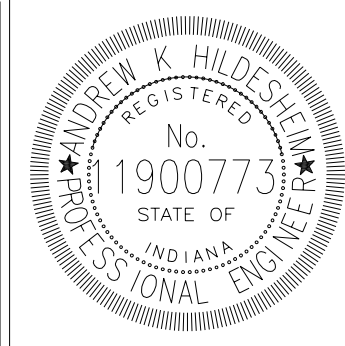
COFFERDAM / SUMP HOLE WORK AREA DETAIL  
Not to Scale

- ### DEWATERING INSTALLATION NOTES
- The Contractor shall provide, operate, and maintain Dewatering Systems of sufficient size and capacity to permit excavation and subsequent construction in dry conditions.
  - The Contractor shall inspect dewatering setups each workday and maintain for effective operating condition. Maintenance of dewatering setups should be proactive, not reactive. Inspect as soon as possible (and always within 24 hours) following a storm that causes surface erosion, and perform necessary maintenance.
  - Where dewatering setup has failed, repair or replacement should be initiated upon discovery of the failure.
  - Dewatering setup to be removed after work in waterway is complete.
  - Area to be stabilized with riprap, where riprap from dewatering setup can be incorporated into final, permanent riprap or with INDOT seed mix type R.
  - The Contractor must use filter bags for dewatering trenches. Filter bag shall be placed as far downstream as possible, on level pad, discharging to a ditch and not directly into a storm sewer.



DEWATERING FILTER BAG DETAIL  
Not to Scale

W:\1518\1518-023-368-S\DMR CSP Plans\1518-023-368-S\1518-023-368-S-Campground Road\1518-023-368-S.dwg  
 12/10/2024  
 8:31:26 AM  
 1:20



RECOMMENDED FOR APPROVAL	<i>Andrew Hildesheim</i>	12/6/2024
	DESIGN ENGINEER	DATE
DESIGNED:	AKH	DRAWN:
		AKH
CHECKED:	DPL	CHECKED:
		DPL

INDIANA DEPARTMENT OF NATURAL RESOURCES

**EROSION CONTROL SHEET**  
LINE "C" - CLV - 96358

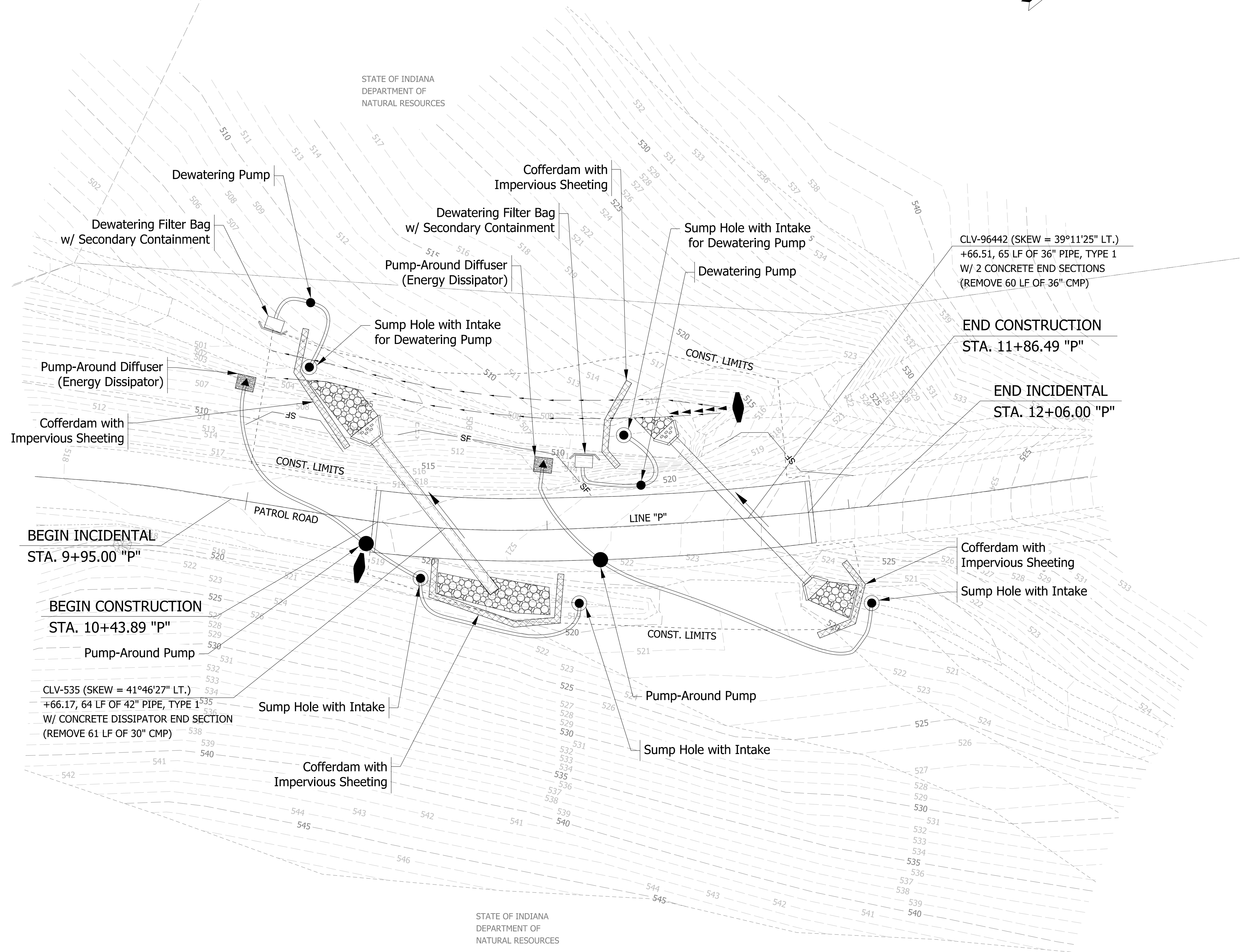
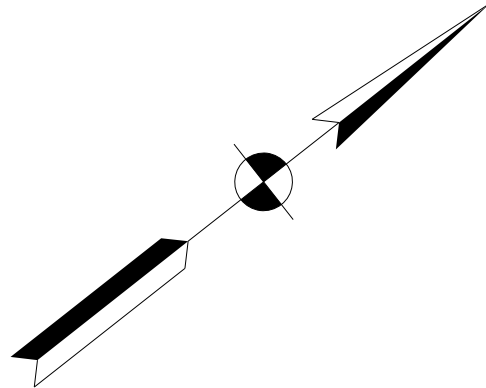
HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
N/A	
SURVEY BOOK	SHEETS
	8 of 22
CONTRACT	PROJECT
	ENG # 2403724110



10+00

11+00

12+00



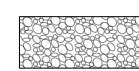

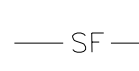

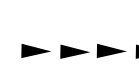

**EROSION CONTROL NOTES**

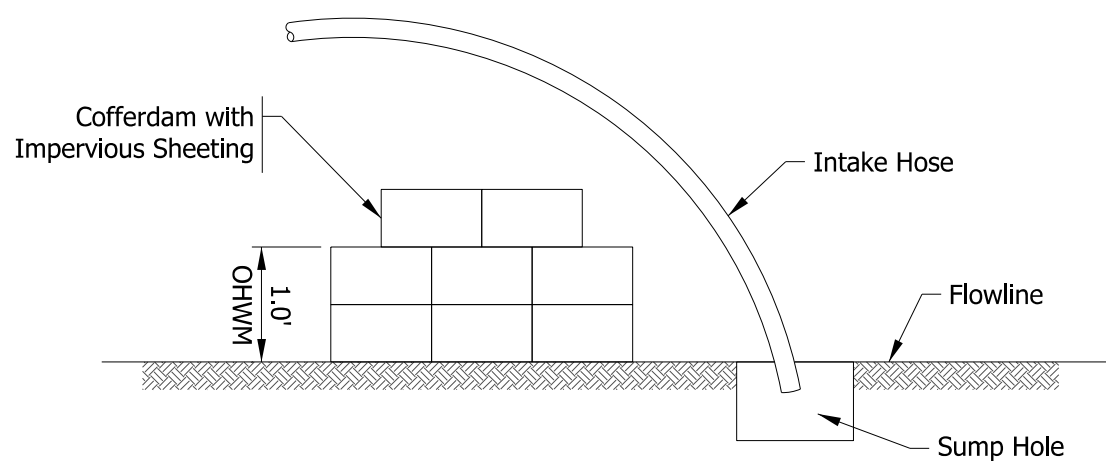
1. Erosion Control Blanket shall be placed on all graded slopes 3:1 and steeper and in concentrated flow areas (i.e. roadside ditches).
2. Permanent Seeding and Mulching to be placed on all disturbed areas, unless noted otherwise. Native Wetland Seed Mix shall be used in disturbed areas of wetlands. Protect existing inlets with Inlet Protection where there is potential to be impacted by sediment and/or debris from construction. Inlet Protection must be below grate with overflow capacity.
3. See plans for final placement of Riprap.
4. Do not disturb wetlands outside of construction limits.

**PUMP-AROUND NOTES**

1. Adjust outlet stabilization if bank erosion is present.
2. Adjust Pump capacity as necessary to handle stream water volume.
3. Repair leaks and/or otherwise stabilize Cofferdams if water is back flowing into work area.
4. Pump Around discharge shall not be outletted directly into stream.

**LEGEND**

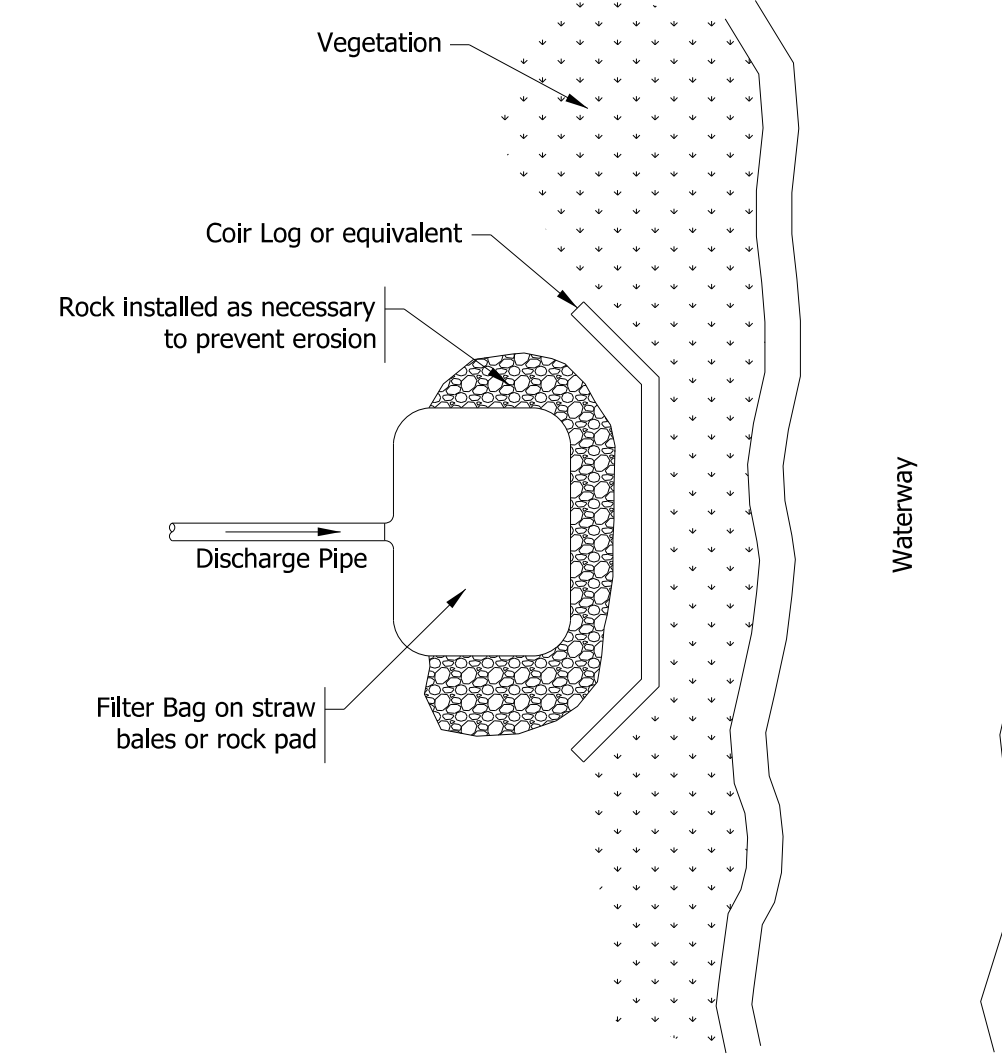
-  Riprap or Class 1 Riprap on Geotextile, Type 2B
-  Temporary Check Dam, Revetment Riprap
-  Filter Sock or Silt Fence
-  Erosion Control Blanket
-  Temporary Diversion Ditch
-  Inlet Protection



**COFFERDAM / SUMP HOLE WORK AREA DETAIL**  
Not to Scale

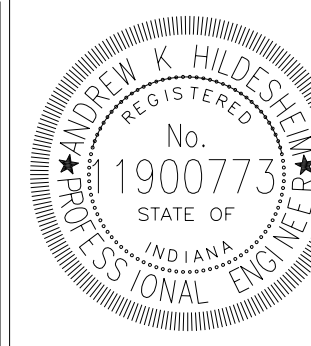
**DEWATERING INSTALLATION NOTES**

1. The Contractor shall provide, operate, and maintain Dewatering Systems of sufficient size and capacity to permit excavation and subsequent construction in dry conditions.
2. The Contractor shall inspect dewatering setups each workday and maintain for effective operating condition. Maintenance of dewatering setups should be proactive, not reactive. Inspect as soon as possible (and always within 24 hours) following a storm that causes surface erosion, and perform necessary maintenance.
3. Where dewatering setup has failed, repair or replacement should be initiated upon discovery of the failure.
4. Dewatering setup to be removed after work in waterway is complete.
5. Area to be stabilized with riprap, where riprap from dewatering setup can be incorporated into final, permanent riprap or with INDOT seed mix type R.
6. The Contractor must use filter bags for dewatering trenches. Filter bag shall be placed as far downstream as possible, on level pad, discharging to a ditch and not directly into a storm sewer.



**DEWATERING FILTER BAG DETAIL**  
Not to Scale

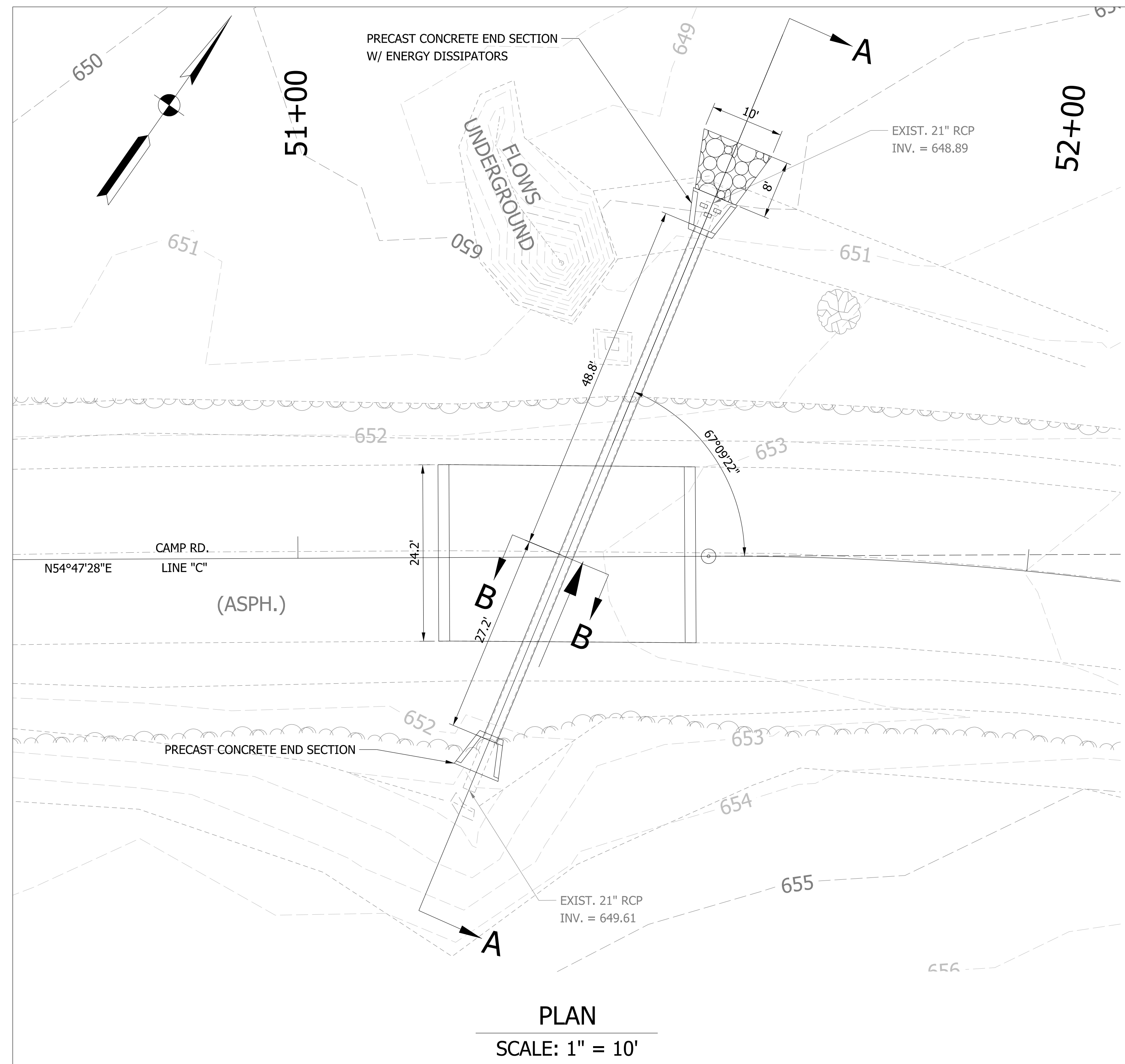
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RECOMMENDED FOR APPROVAL *Andrew Hildesheim* 12/6/2024 DATE  
 DESIGN ENGINEER  
 DESIGNED: AKH DRAWN: AKH  
 CHECKED: DPL CHECKED: DPL

**INDIANA DEPARTMENT OF NATURAL RESOURCES**  
**EROSION CONTROL SHEET**  
**LINE "P" - CLV - 535 & CLV - 96442**

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
N/A	
SURVEY BOOK	SHEETS
	9 of 22
CONTRACT	PROJECT
	ENG # 2403724110



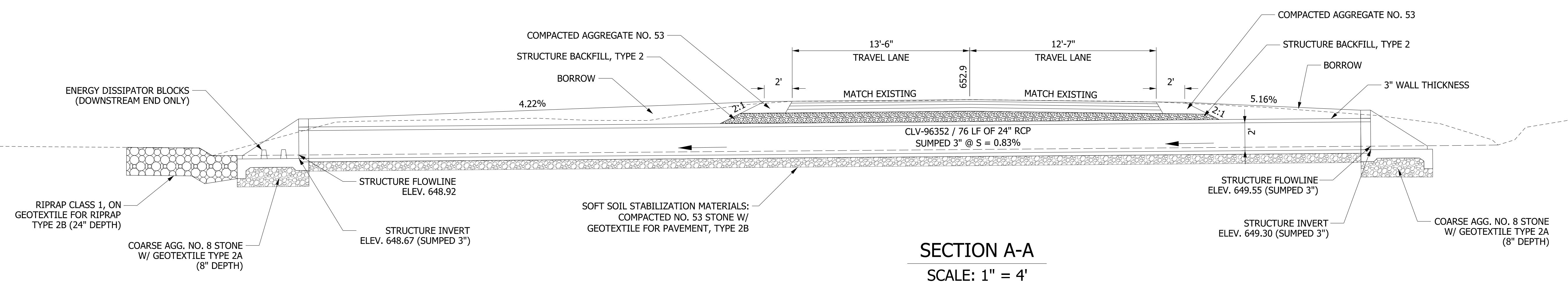
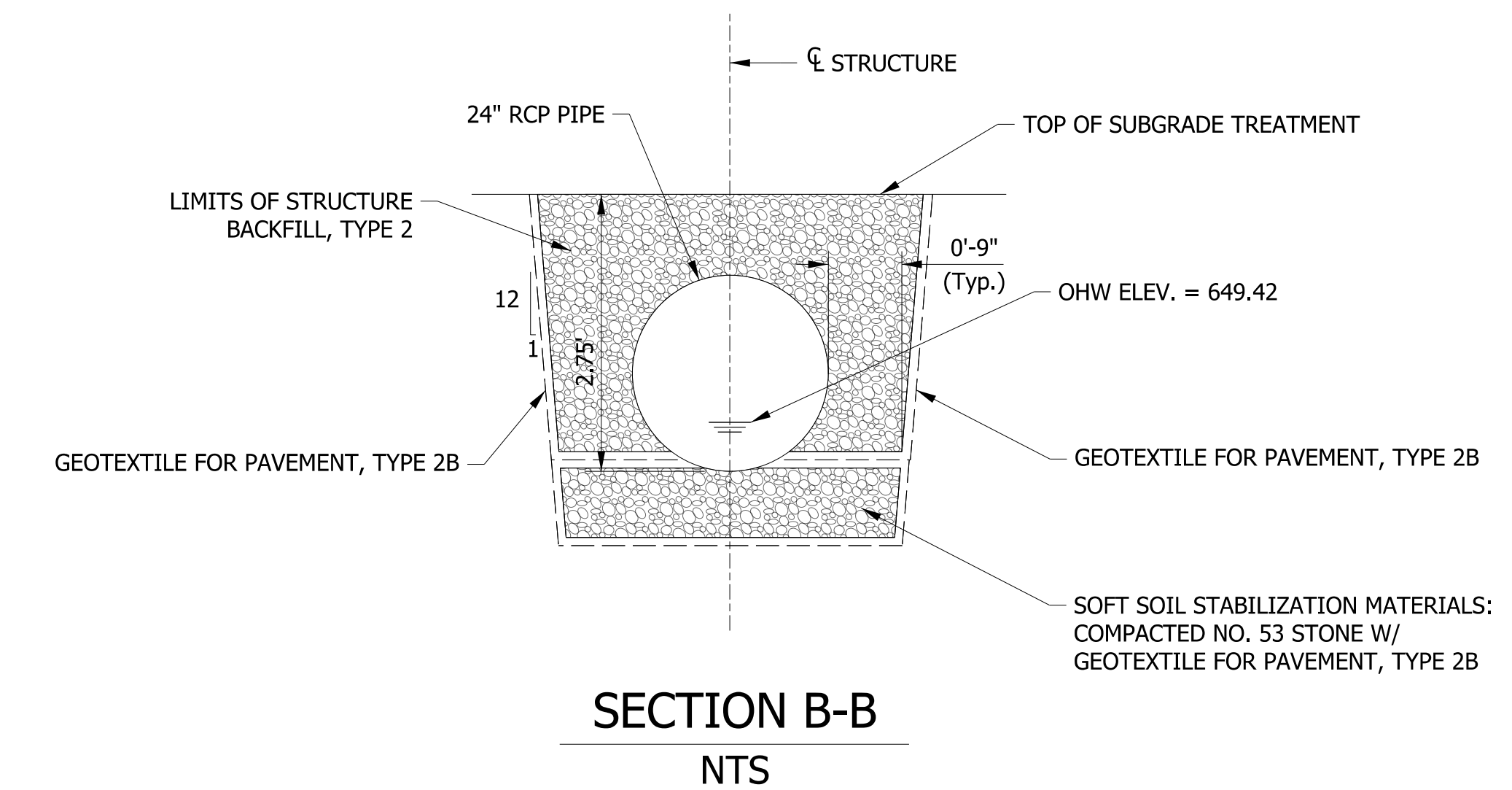
GEOTECHNICAL REPORT SOIL PARAMETERS	VALUE
RESISTANCE FACTOR	0.45
NOMINAL BEARING RESISTANCE (PSF)	11,120
FACTORED BEARING RESISTANCE (PSF)	5,000
ADHESION BETWEEN FOUNDATIONS & SOIL (PSF)	1,800
TOTAL UNIT WEIGHT OF BACKFILL MATERIAL (PCF)	120
ANGLE OF INTERNAL FRICTION OF BACKFILL (DEGREES)	30
ANGLE OF INTERNAL FRICTION BETWEEN WALL & BACKFILL (DEGREES)	21
COHESION OF FOUNDATION MATERIAL (PSF)	3,000

NOTE: GEOTECHNICAL REPORT SOIL PARAMETERS FOR INFORMATION ONLY.

24" REINFORCED CONCRETE PIPE STRUCTURE  
76' LENGTH, 22°50'38" SKEW, SUMPED 3"  
CAMP ROAD, CHARLESTOWN STATE PARK,  
CLARK COUNTY, INDIANA

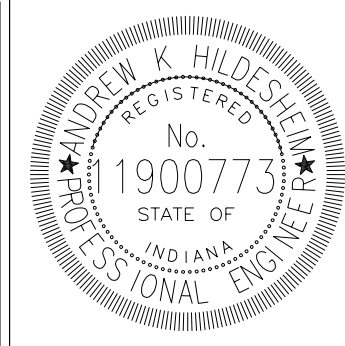
- NOTES:
- CONTRACTOR SHALL VERIFY THE PROPOSED FLOWLINE.
  - REFER TO HEADWALL DETAIL SHEET FOR ADDITIONAL INFORMATION.
  - FOR ADDITIONAL INFORMATION REGARDING STRUCTURE BACKFILL REFER TO INDOT STANDARD DRAWINGS E 715-BKFL-01 & E 715-BKFL-03.

- GEOTECHNICAL REPORT NOTES:
- BEDROCK ENCOUNTERED BY SOIL BORINGS AT ELEV. 647.0 UPSTREAM & 643.5 DOWNSTREAM, PER GEOTECHNICAL REPORT
  - PER GEOTECHNICAL REPORT, EXPOSED TRENCH BOTTOM FOR PROPOSED CULVERT SHALL BE EXAMINED BY A GEOTECHNICAL ENGINEER OR EXPERIENCED SOIL TECHNICIAN TO IDENTIFY SOFT SOILS. SOFT SOILS SHALL BE REMOVED AND REPLACED WITH COMPACTED NO. 53 STONE OR "B" BORROW WITH GEOTEXTILE FOR PAVEMENT, TYPE 2B. THE COST OF EXCAVATION AND BACKFILL MATERIALS SHALL BE PAID FOR WITH REMEDIATION ALLOWANCE.
  - FOR ADDITIONAL INFORMATION REGARDING ROCK AND GROUNDWATER ELEVATIONS REFER TO GEOTECHNICAL REPORT.



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PIPE, TYPE 1 - MATERIAL LIST  
REINFORCED CONCRETE PIPE



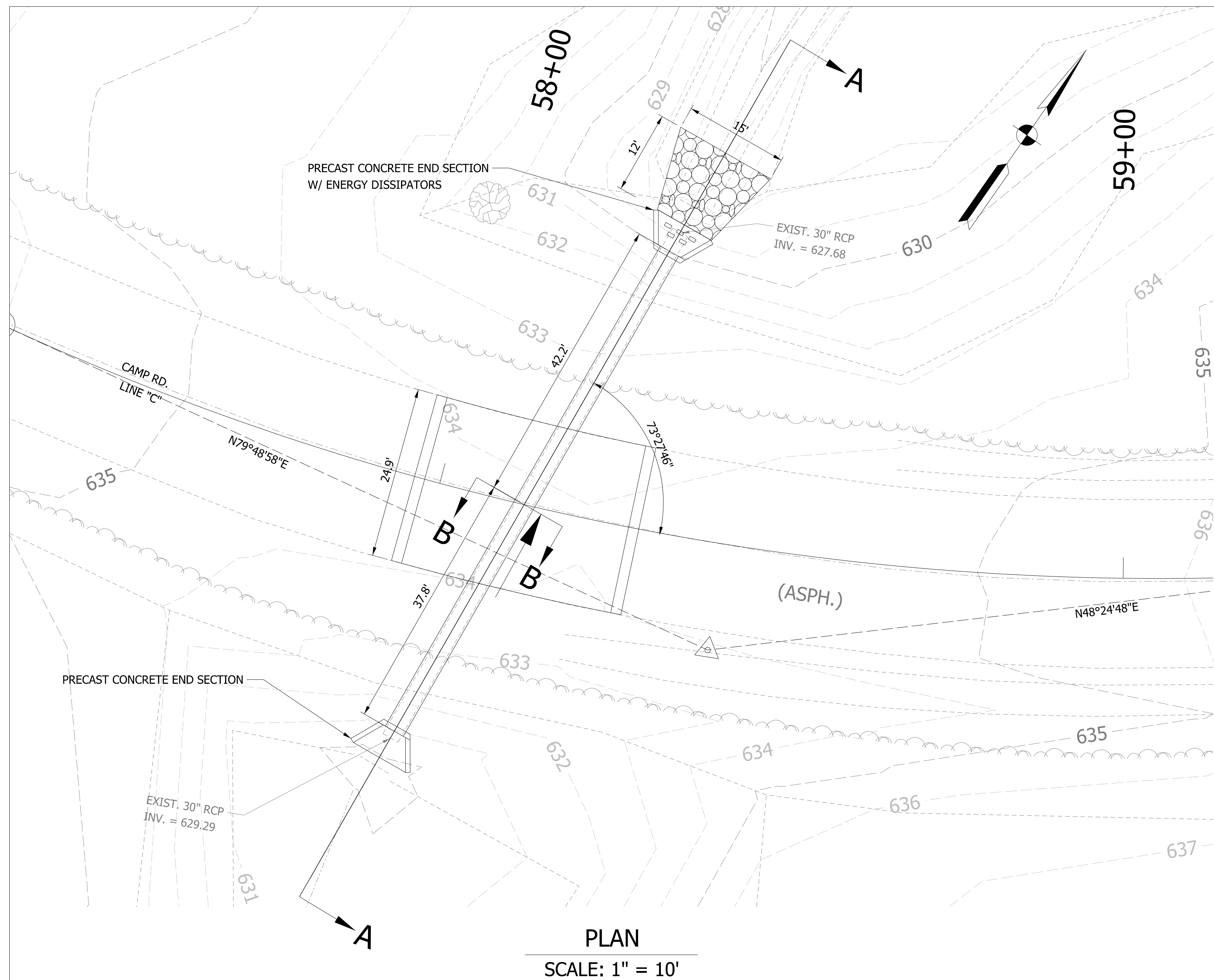
RECOMMENDED FOR APPROVAL  
*Andrew K. Hildesheim*  
 DESIGN ENGINEER 12/6/2024 DATE

DESIGNED: AKH DRAWN: AKH  
 CHECKED: DPL CHECKED: DPL

INDIANA DEPARTMENT  
OF NATURAL RESOURCES

STRUCTURE DETAIL SHEET  
CAMP ROAD - CLV-96352

HORIZONTAL SCALE AS SHOWN	BRIDGE FILE
VERTICAL SCALE AS SHOWN	DESIGNATION
SURVEY BOOK	SHEETS
CONTRACT	10 of 22
	PROJECT
	ENG # 2403724110



PLAN  
SCALE: 1" = 10'

GEOTECHNICAL REPORT SOIL PARAMETERS	VALUE
RESISTANCE FACTOR	0.45
NOMINAL BEARING RESISTANCE (PSF)	11,120
FACTORED BEARING RESISTANCE (PSF)	5,000
ADHESION BETWEEN FOUNDATIONS & SOIL (PSF)	1,800
TOTAL UNIT WEIGHT OF BACKFILL MATERIAL (PCF)	120
ANGLE OF INTERNAL FRICTION OF BACKFILL (DEGREES)	30
ANGLE OF INTERNAL FRICTION BETWEEN WALL & BACKFILL (DEGREES)	21
COHESION OF FOUNDATION MATERIAL (PSF)	3,000

NOTE: GEOTECHNICAL REPORT SOIL PARAMETERS FOR INFORMATION ONLY.

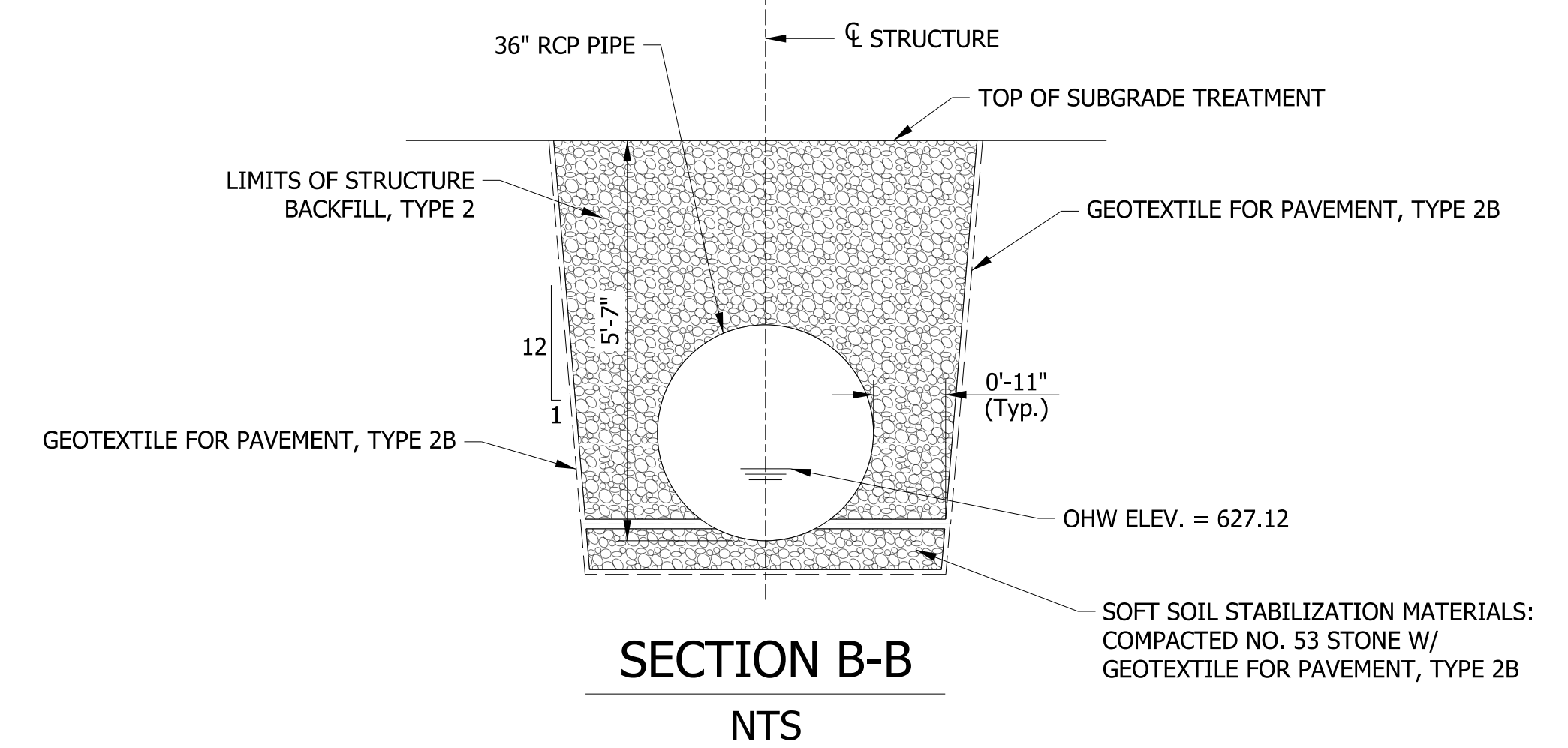
36" REINFORCED CONCRETE PIPE STRUCTURE  
80' LENGTH, 16°32'14" SKEW, SUMPED 3"  
CAMP ROAD, CHARLESTOWN STATE PARK,  
CLARK COUNTY, INDIANA

NOTES:

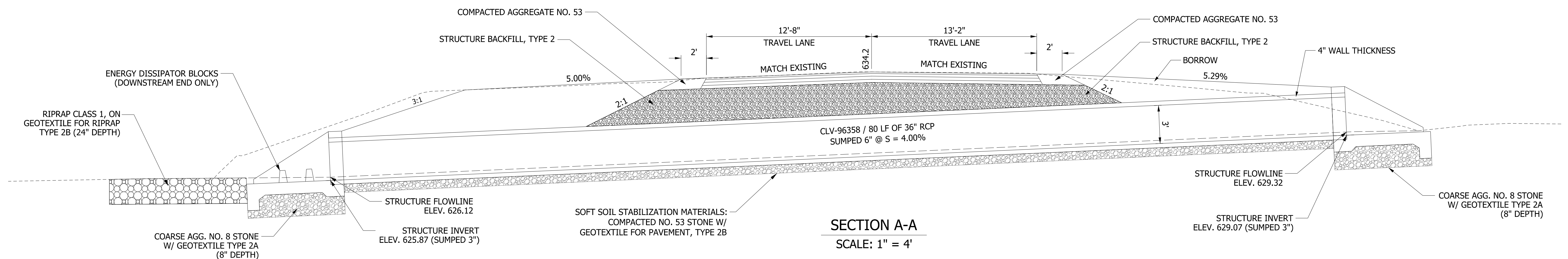
1. CONTRACTOR SHALL VERIFY THE PROPOSED FLOWLINE.
2. REFER TO HEADWALL DETAIL SHEET FOR ADDITIONAL INFORMATION.
3. FOR ADDITIONAL INFORMATION REGARDING STRUCTURE BACKFILL REFER TO INDOT STANDARD DRAWINGS E 715-BKFL-01 & E 715-BKFL-03.

GEOTECHNICAL REPORT NOTES:

1. BEDROCK ENCOUNTERED BY SOIL BORINGS AT ELEV. 625.5 UPSTREAM & 625.2 DOWNSTREAM, PER GEOTECHNICAL REPORT.
2. PER GEOTECHNICAL REPORT, EXPOSED TRENCH BOTTOM FOR PROPOSED CULVERT SHALL BE EXAMINED BY A GEOTECHNICAL ENGINEER OR EXPERIENCED SOIL TECHNICIAN TO IDENTIFY SOFT SOILS. SOFT SOILS SHALL BE REMOVED AND REPLACED WITH COMPACTED NO. 53 STONE OR "B" BORROW WITH GEOTEXTILE FOR PAVEMENT, TYPE 2B. THE COST OF EXCAVATION AND BACKFILL MATERIALS SHALL BE PAID FOR WITH REMEDIATION ALLOWANCE.
3. FOR ADDITIONAL INFORMATION REGARDING ROCK AND GROUNDWATER ELEVATIONS REFER TO GEOTECHNICAL REPORT.

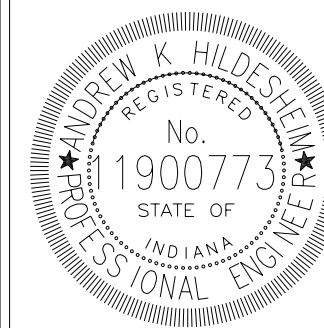


SECTION B-B  
NTS



SECTION A-A  
SCALE: 1" = 4'

PIPE, TYPE 1 - MATERIAL LIST  
REINFORCED CONCRETE PIPE

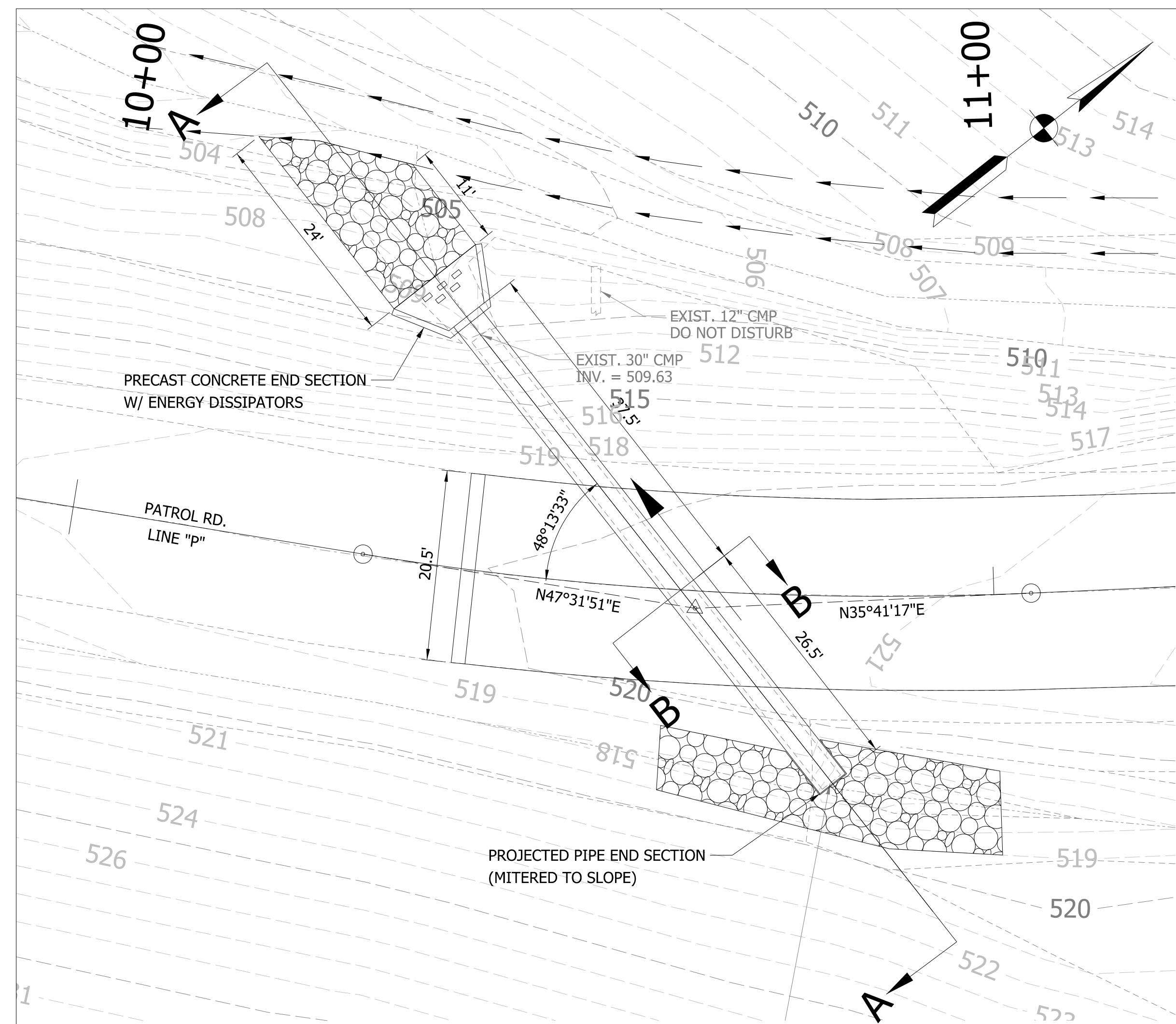


RECOMMENDED FOR APPROVAL: *Andrew Hildesheim* DESIGN ENGINEER 12/6/2024 DATE  
DESIGNED: AKH DRAWN: AKH  
CHECKED: DPL CHECKED: DPL

INDIANA DEPARTMENT OF NATURAL RESOURCES  
STRUCTURE DETAIL SHEET  
CAMP ROAD - CLV-96358

HORIZONTAL SCALE AS SHOWN	BRIDGE FILE
VERTICAL SCALE AS SHOWN	DESIGNATION
SURVEY BOOK	SHEETS
CONTRACT	11 of 22 PROJECT
	ENG # 2403724110

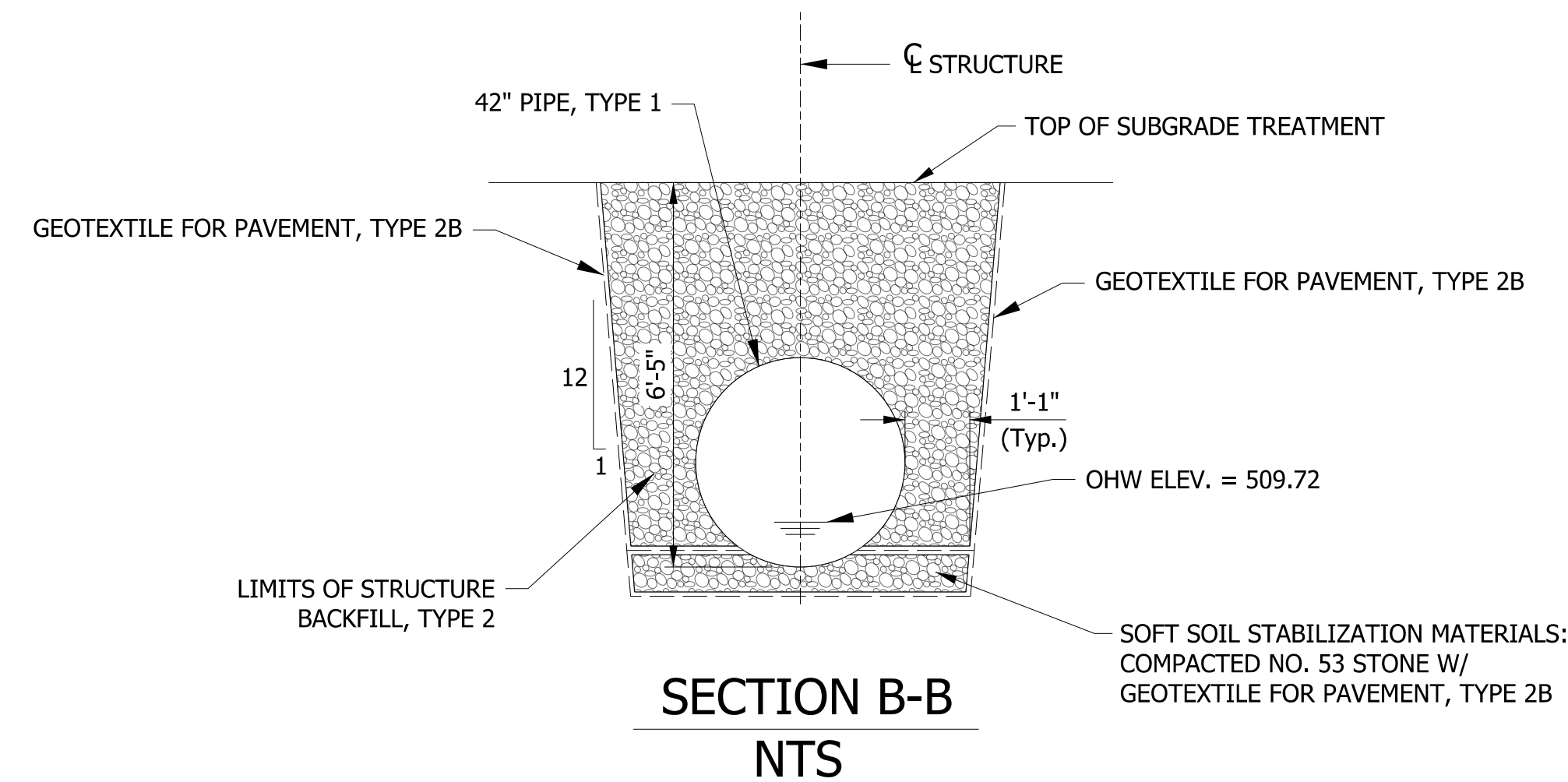
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PLAN  
SCALE: 1" = 10'

GEOTECHNICAL REPORT SOIL PARAMETERS	VALUE
RESISTANCE FACTOR	0.45
NOMINAL BEARING RESISTANCE (PSF)	7,800
FACTORED BEARING RESISTANCE (PSF)	3,500
ADHESION BETWEEN FOUNDATIONS & SOIL (PSF)	900
TOTAL UNIT WEIGHT OF BACKFILL MATERIAL (PCF)	120
ANGLE OF INTERNAL FRICTION OF BACKFILL (DEGREES)	30
ANGLE OF INTERNAL FRICTION BETWEEN WALL & BACKFILL (DEGREES)	21
COHESION OF FOUNDATION MATERIAL (PSF)	1500

NOTE: GEOTECHNICAL REPORT SOIL PARAMETERS FOR INFORMATION ONLY.



SECTION B-B  
NTS

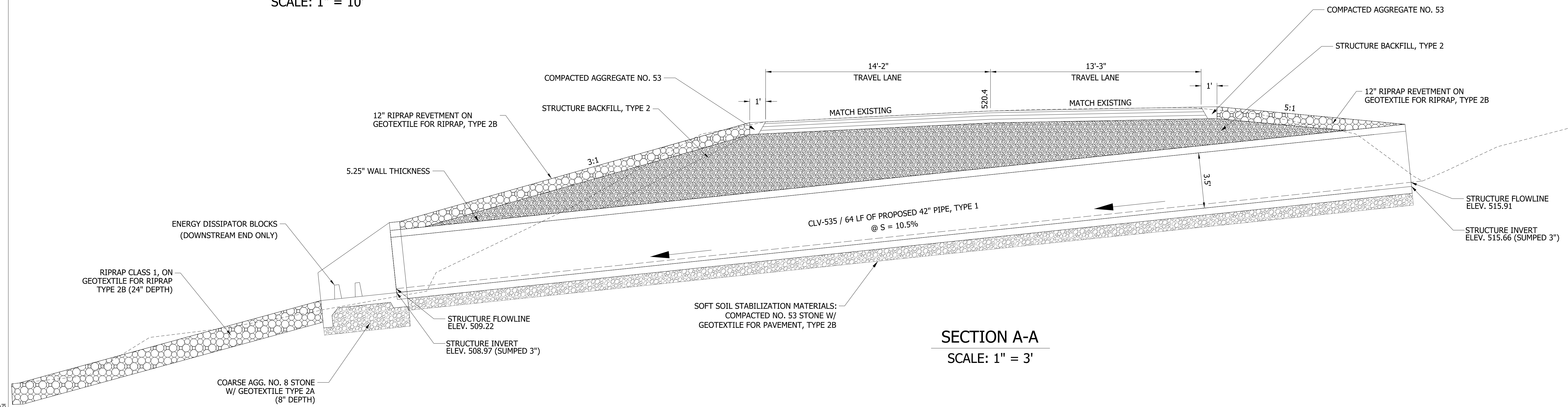
42" PIPE, TYPE 1  
64' LENGTH, 41°46'27" SKEW  
PATROL ROAD, CHARLESTOWN STATE PARK  
CLARK COUNTY, INDIANA

NOTES:

- CONTRACTOR SHALL VERIFY THE PROPOSED FLOWLINE.
- REFER TO HEADWALL DETAIL SHEET FOR ADDITIONAL INFORMATION.
- FOR ADDITIONAL INFORMATION REGARDING STRUCTURE BACKFILL REFER TO INDOT STANDARD DRAWINGS E 715-BKFL-01 & E 715-BKFL-03.

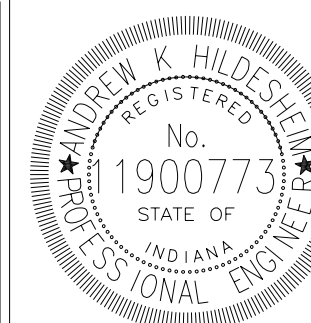
GEOTECH NOTES:

- BEDROCK ENCOUNTERED BY SOIL BORINGS AT ELEV. 508.2 UPSTREAM & 509.0 DOWNSTREAM, PER GEOTECHNICAL REPORT.
- PER GEOTECHNICAL REPORT, EXPOSED TRENCH BOTTOM FOR PROPOSED CULVERT SHALL BE EXAMINED BY A GEOTECHNICAL ENGINEER OR EXPERIENCED SOIL TECHNICIAN TO IDENTIFY SOFT SOILS. SOFT SOILS SHALL BE REMOVED AND REPLACED WITH COMPACTED NO. 53 STONE OR "B" BORROW WITH GEOTEXTILE FOR PAVEMENT, TYPE 2B. THE COST OF EXCAVATION AND BACKFILL MATERIALS SHALL BE PAID FOR WITH REMEDIATION ALLOWANCE.
- FOR ADDITIONAL INFORMATION REGARDING ROCK AND GROUNDWATER ELEVATIONS REFER TO GEOTECHNICAL REPORT.



SECTION A-A  
SCALE: 1" = 3'

PIPE, TYPE 1 - MATERIAL LIST  
CORRUGATED POLYETHYLENE PIPE TYPE "S"  
CORRUGATED POLYPROPYLENE PIPE

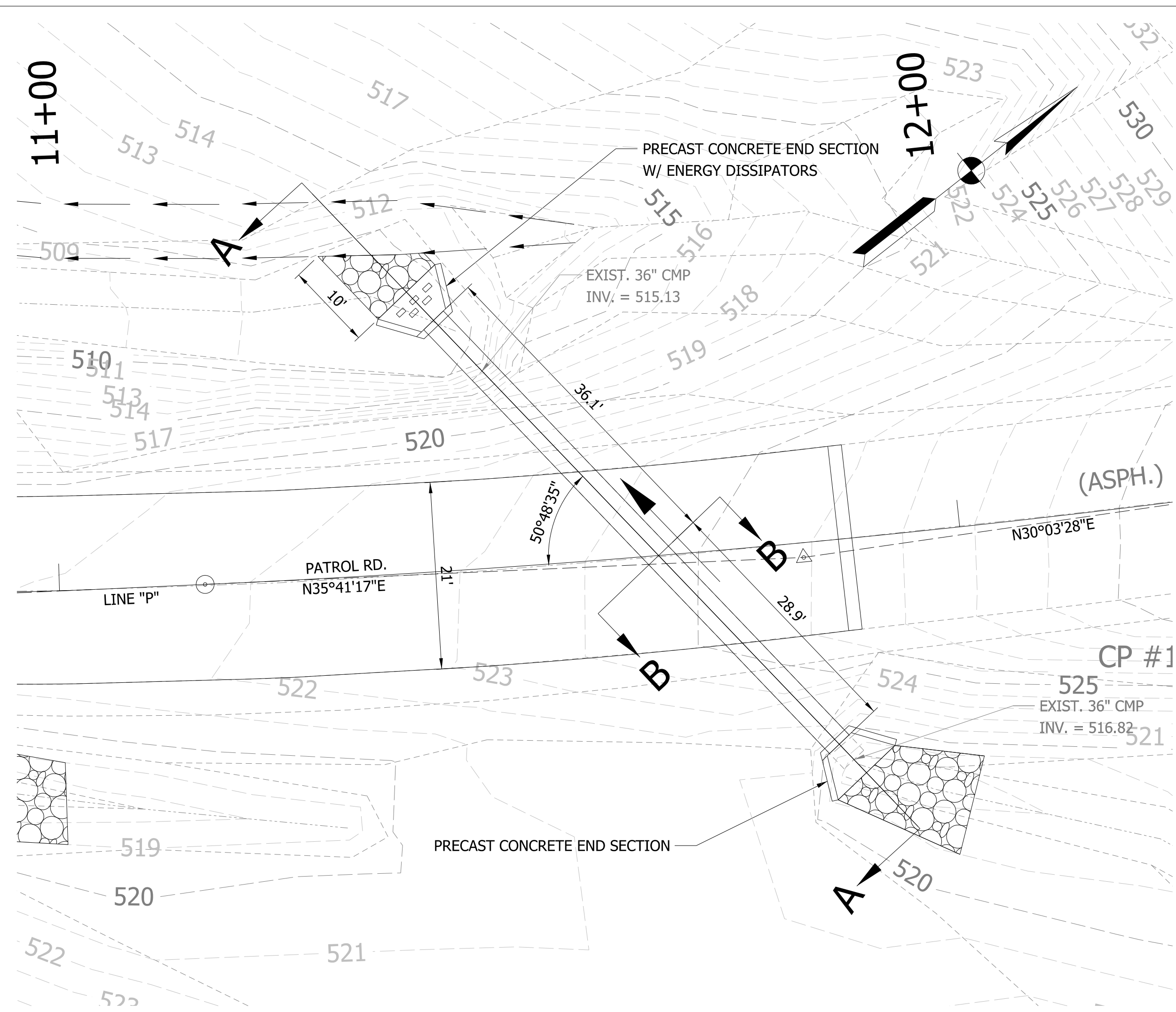


RECOMMENDED FOR APPROVAL: *Andrew Hildesheim* DESIGN ENGINEER 12/6/2024 DATE  
DESIGNED: AKH DRAWN: AKH  
CHECKED: DPL CHECKED: DPL

INDIANA DEPARTMENT OF NATURAL RESOURCES  
STRUCTURE DETAIL SHEET  
PATROL ROAD - CLV-535

HORIZONTAL SCALE AS SHOWN	BRIDGE FILE
VERTICAL SCALE AS SHOWN	DESIGNATION
SURVEY BOOK	SHEETS
CONTRACT	12 of 22 PROJECT
	ENG # 2403724110

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PLAN  
SCALE: 1" = 10'

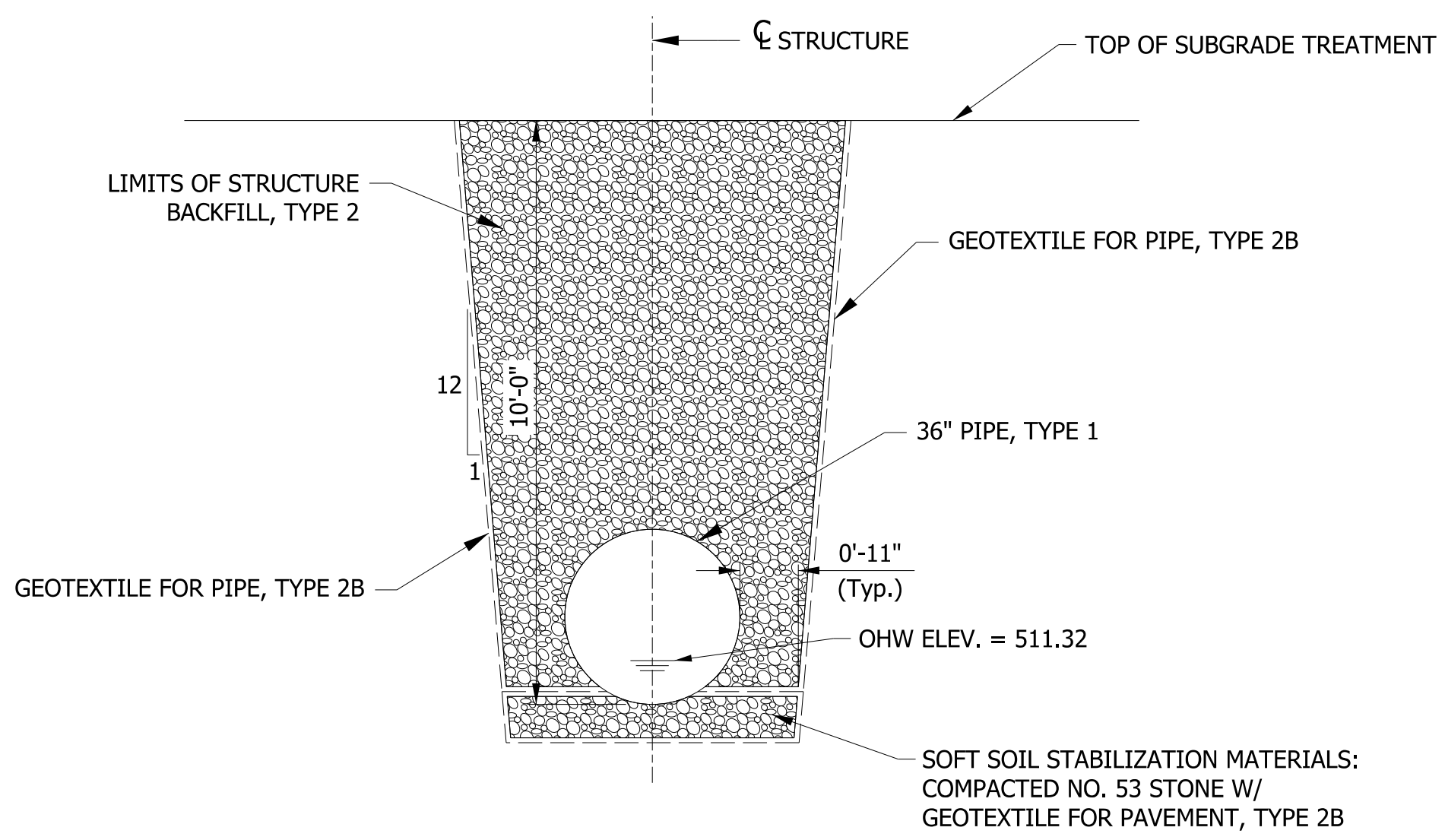
GEOTECHNICAL REPORT SOIL PARAMETERS	VALUE
RESISTANCE FACTOR	0.45
NOMINAL BEARING RESISTANCE (PSF)	5,555
FACTORED BEARING RESISTANCE (PSF)	2,500
ADHESION BETWEEN FOUNDATIONS & SOIL (PSF)	600
TOTAL UNIT WEIGHT OF BACKFILL MATERIAL (PCF)	120
ANGLE OF INTERNAL FRICTION OF BACKFILL (DEGREES)	30
ANGLE OF INTERNAL FRICTION BETWEEN WALL & BACKFILL (DEGREES)	21
COHESION OF FOUNDATION MATERIAL (PSF)	1000

NOTE: GEOTECHNICAL REPORT SOIL PARAMETERS FOR INFORMATION ONLY.

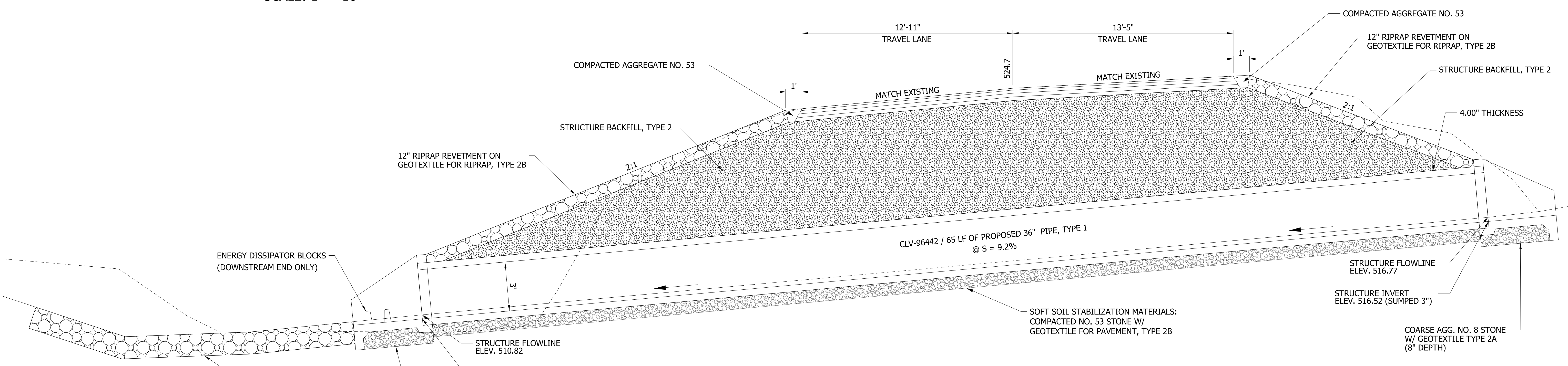
36" PIPE, TYPE 1  
65' LENGTH, 39°11'25" SKEW  
PATROL ROAD, CHARLESTOWN STATE PARK  
CLARK COUNTY, INDIANA

- NOTES:
- CONTRACTOR SHALL VERIFY THE PROPOSED FLOWLINE.
  - REFER TO HEADWALL DETAIL SHEET FOR ADDITIONAL INFORMATION.
  - FOR ADDITIONAL INFORMATION REGARDING STRUCTURE BACKFILL REFER TO INDOT STANDARD DRAWINGS E 715-BKFL-01 & E 715-BKFL-03.

- GEOTECH NOTES:
- BEDROCK ENCOUNTERED BY SOIL BORINGS AT ELEV. 510.3 UPSTREAM & 510.8 DOWNSTREAM, PER GEOTECHNICAL REPORT.
  - PER GEOTECHNICAL REPORT, EXPOSED TRENCH BOTTOM FOR PROPOSED CULVERT SHALL BE EXAMINED BY A GEOTECHNICAL ENGINEER OR EXPERIENCED SOIL TECHNICIAN TO IDENTIFY SOFT SOILS. SOFT SOILS SHALL BE REMOVED AND REPLACED WITH COMPACTED NO. 53 STONE OR "B" BORROW WITH GEOTEXTILE FOR PAVEMENT, TYPE 2B. THE COST OF EXCAVATION AND BACKFILL MATERIALS SHALL BE PAID FOR WITH REMEDIATION ALLOWANCE.
  - FOR ADDITIONAL INFORMATION REGARDING ROCK AND GROUNDWATER ELEVATIONS REFER TO GEOTECHNICAL REPORT.



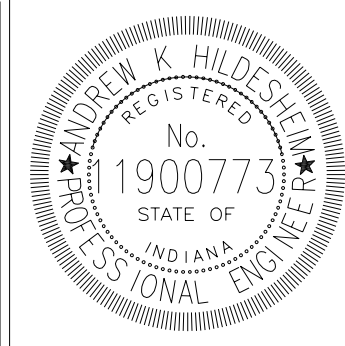
SECTION B-B  
NTS



SECTION A-A  
SCALE: 1" = 3'

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PIPE, TYPE 1 - MATERIAL LIST  
CORRUGATED POLYETHYLENE PIPE TYPE "S"  
CORRUGATED POLYPROPYLENE PIPE



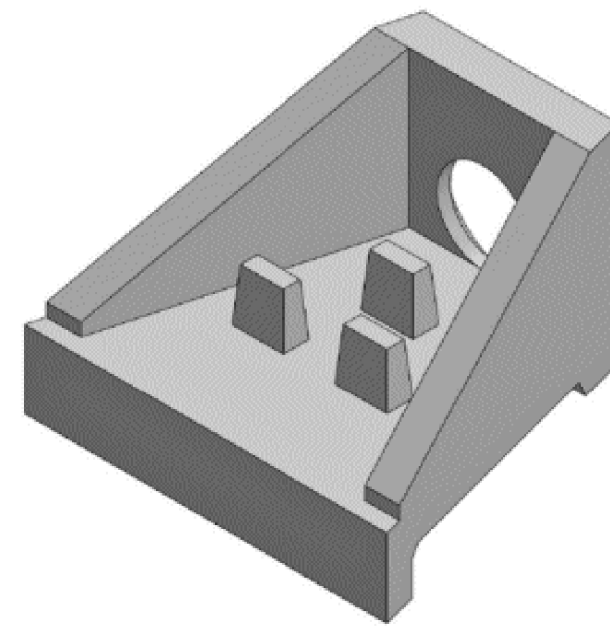
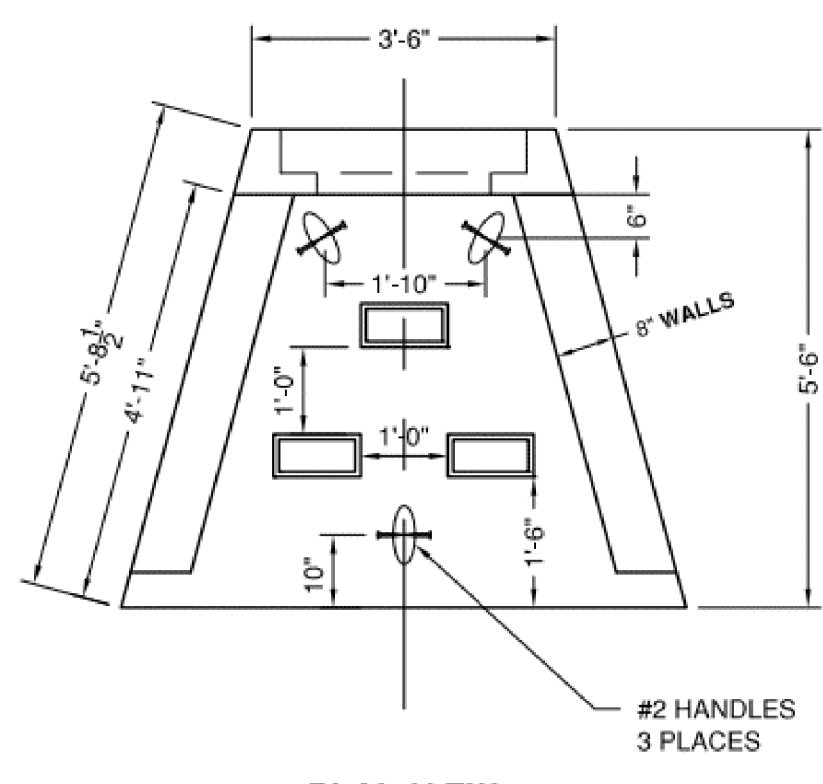
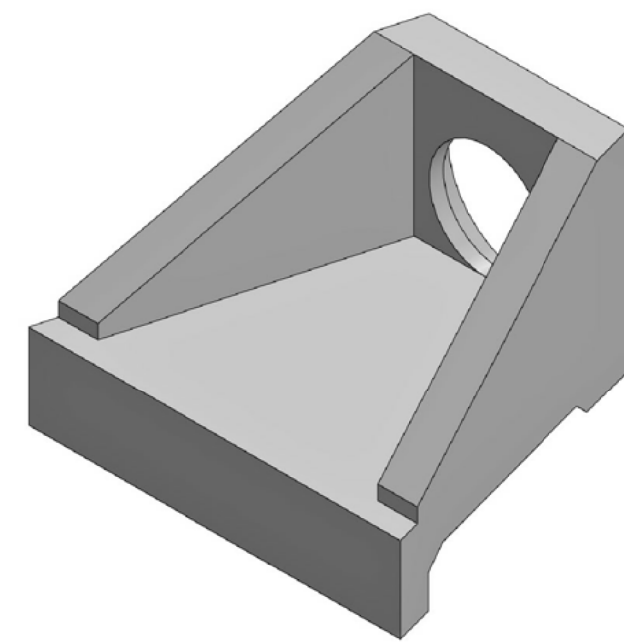
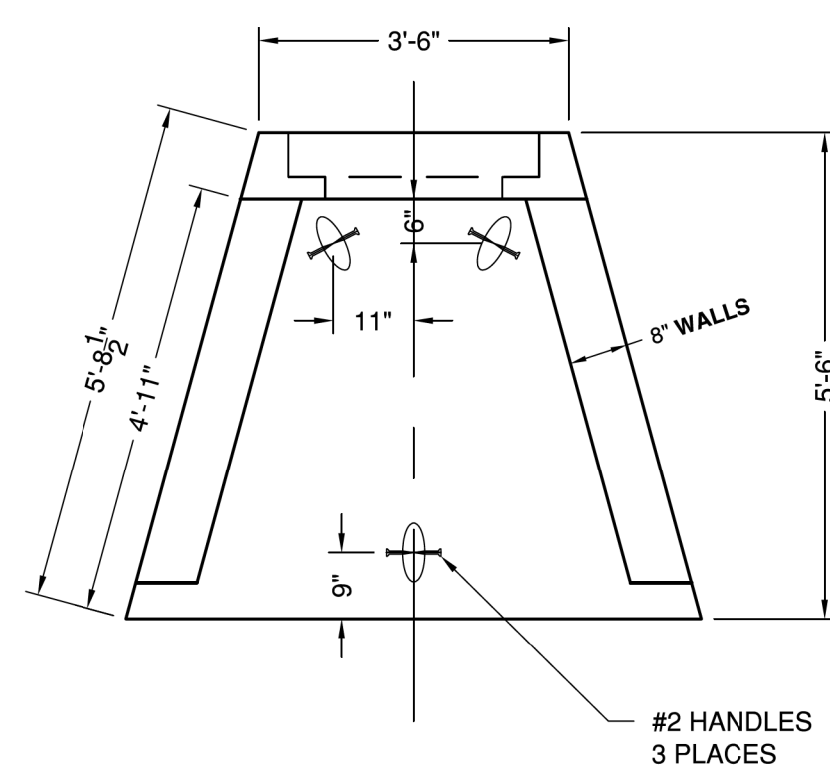
RECOMMENDED FOR APPROVAL  
 DESIGN ENGINEER  
 12/6/2024 DATE

DESIGNED: AKH DRAWN: AKH  
 CHECKED: DPL CHECKED: DPL

INDIANA DEPARTMENT  
OF NATURAL RESOURCES

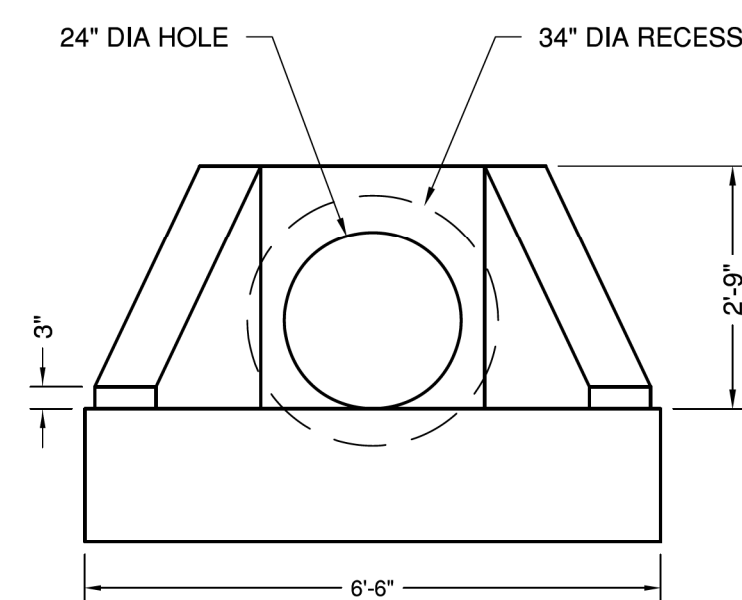
STRUCTURE DETAIL SHEET  
PATROL ROAD - CLV-96442

HORIZONTAL SCALE	BRIDGE FILE
AS SHOWN	
VERTICAL SCALE	DESIGNATION
AS SHOWN	
SURVEY BOOK	SHEETS
	13 of 22
CONTRACT	PROJECT
	ENG # 2403724110

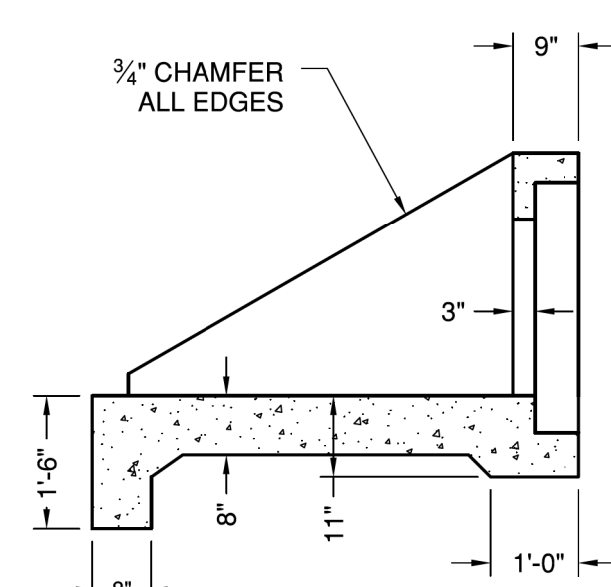


PLAN VIEW

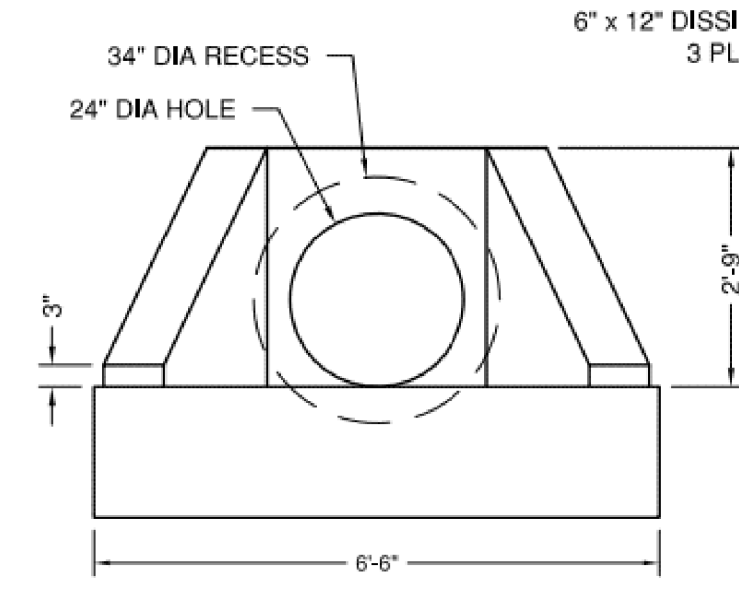
PLAN VIEW



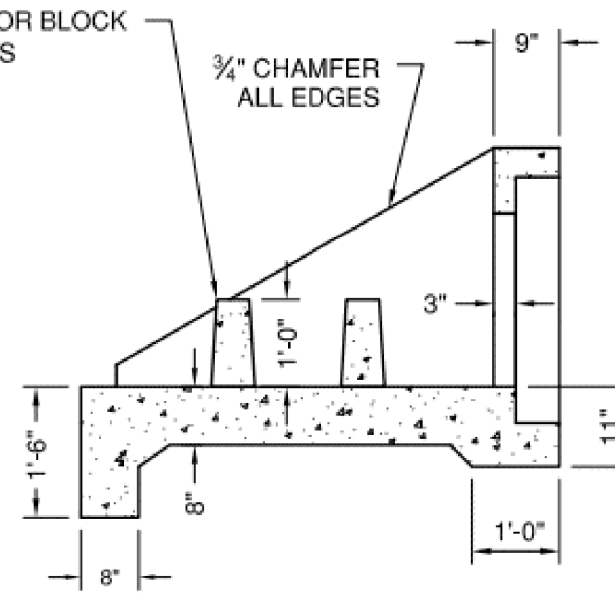
FRONT VIEW



SECTION VIEW



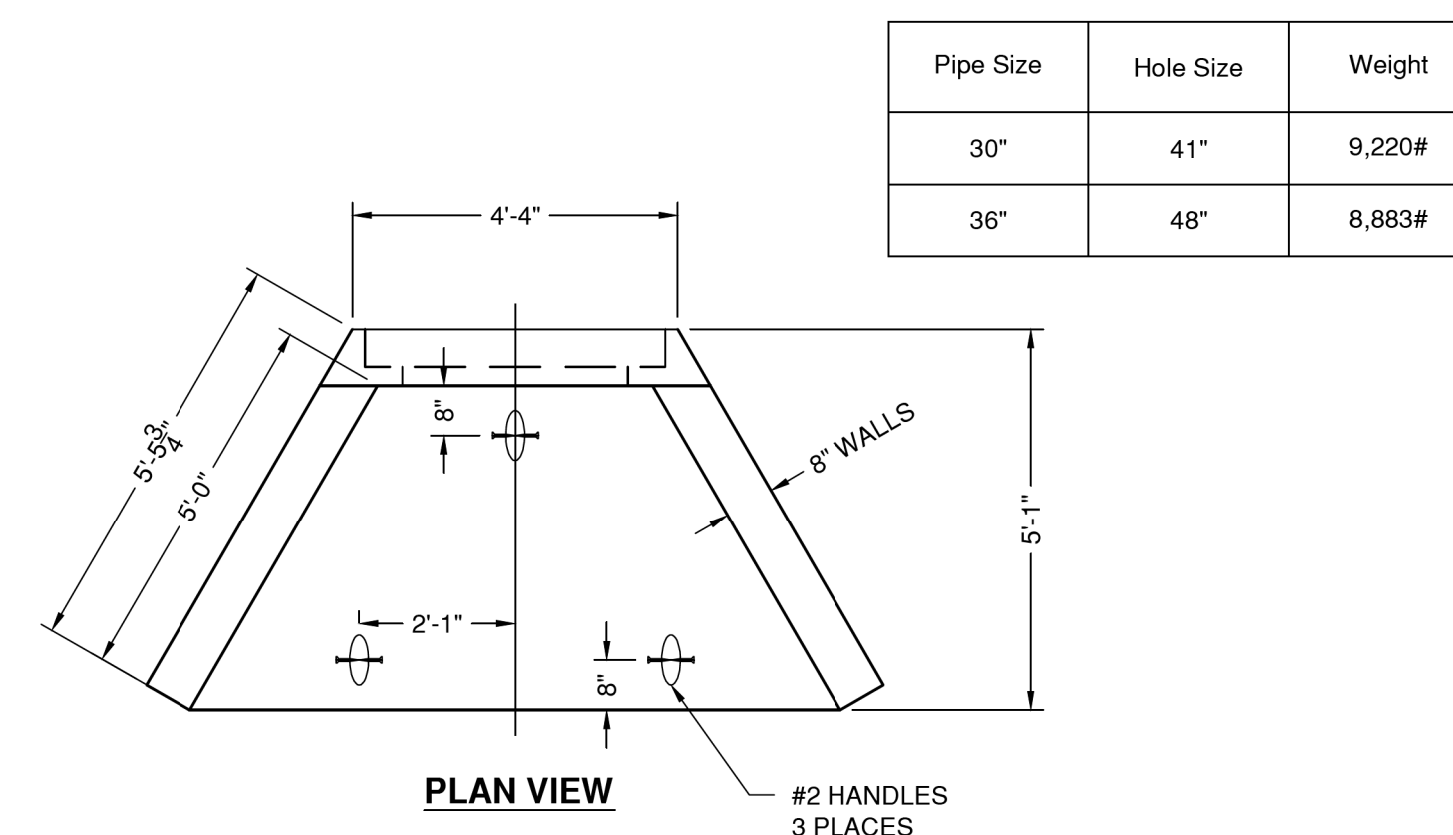
FRONT VIEW



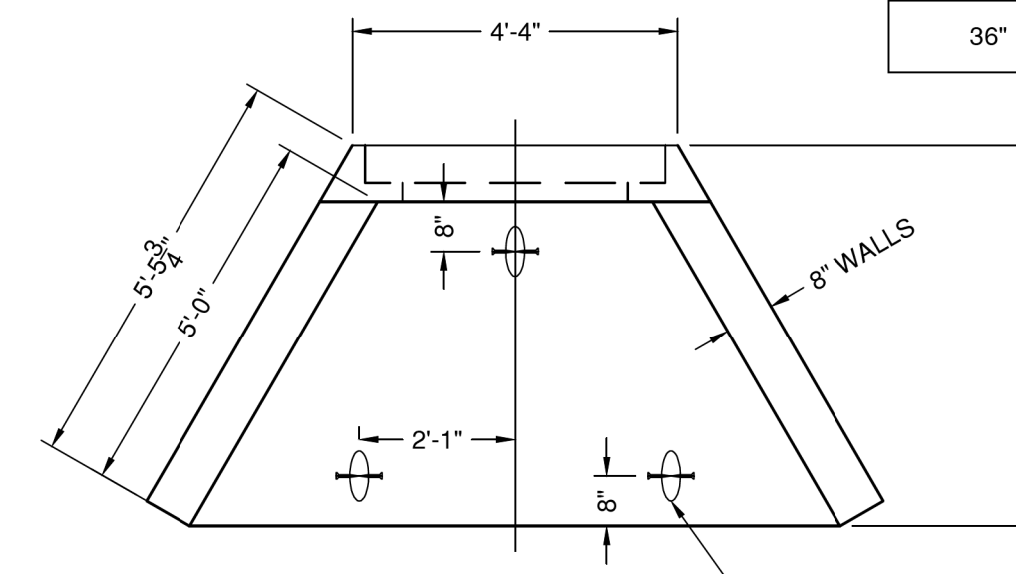
SECTION VIEW

PROPOSED HEADWALL DETAILS - 24"

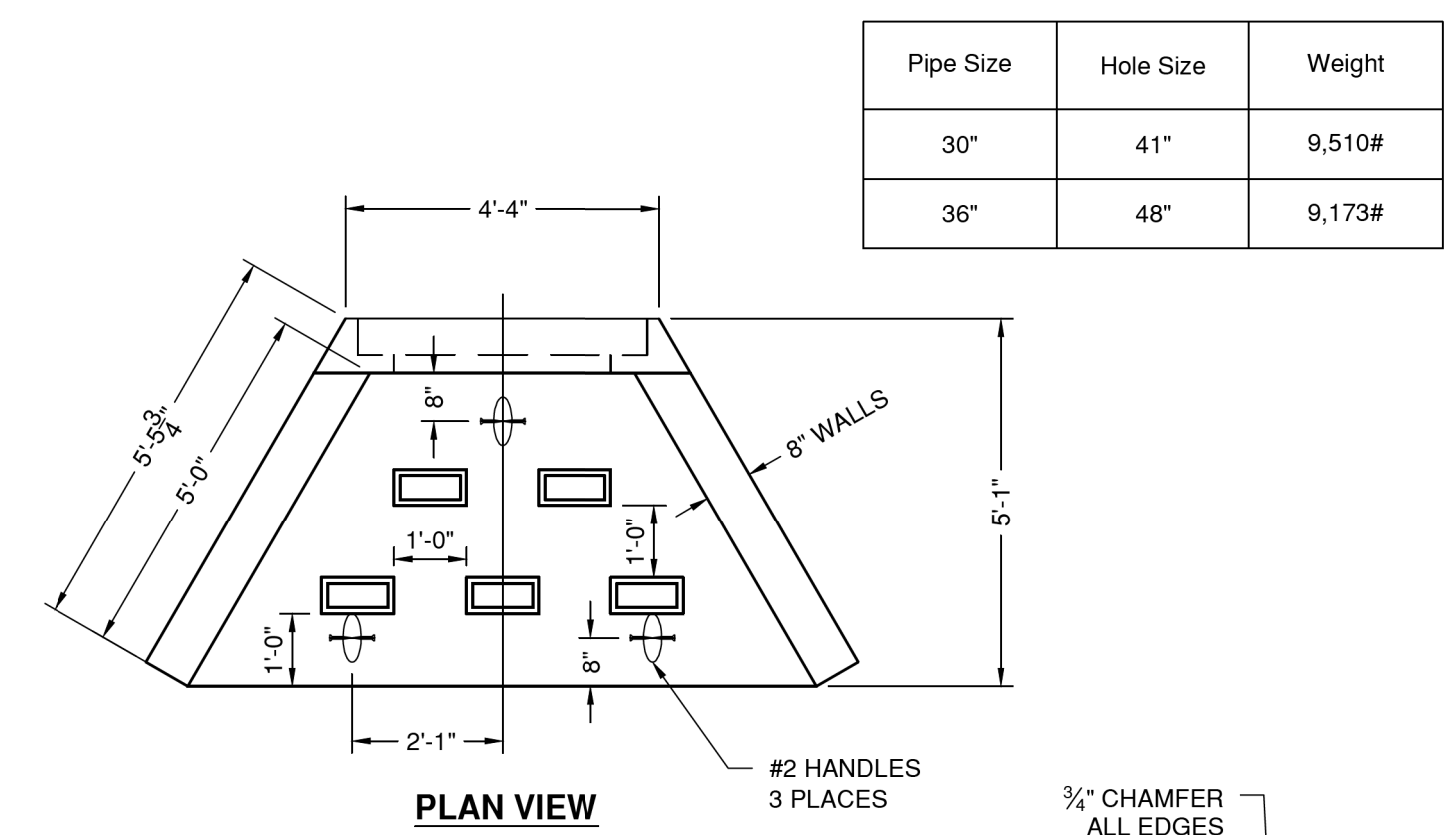
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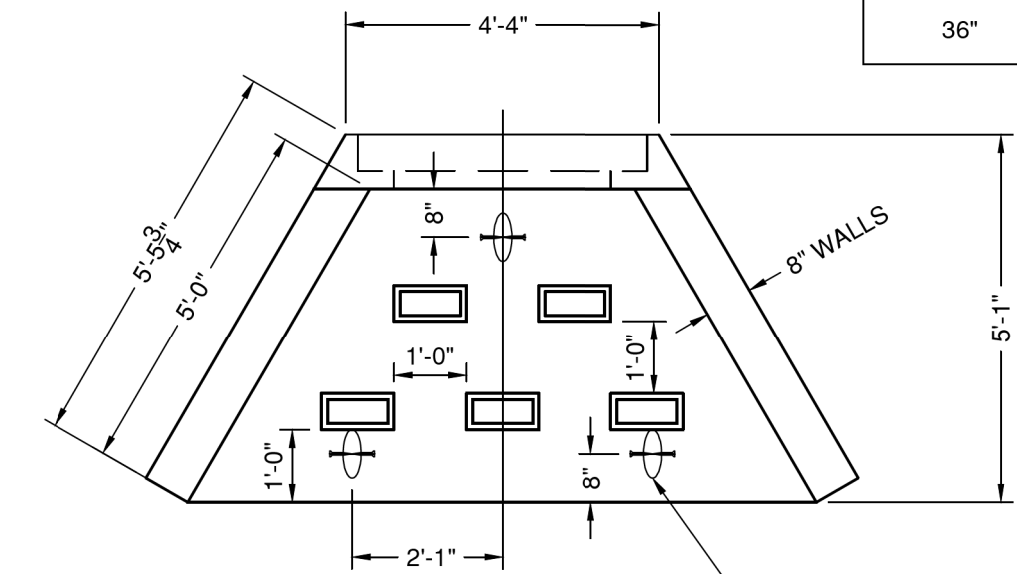
Pipe Size	Hole Size	Weight
30"	41"	9,220#
36"	48"	8,883#



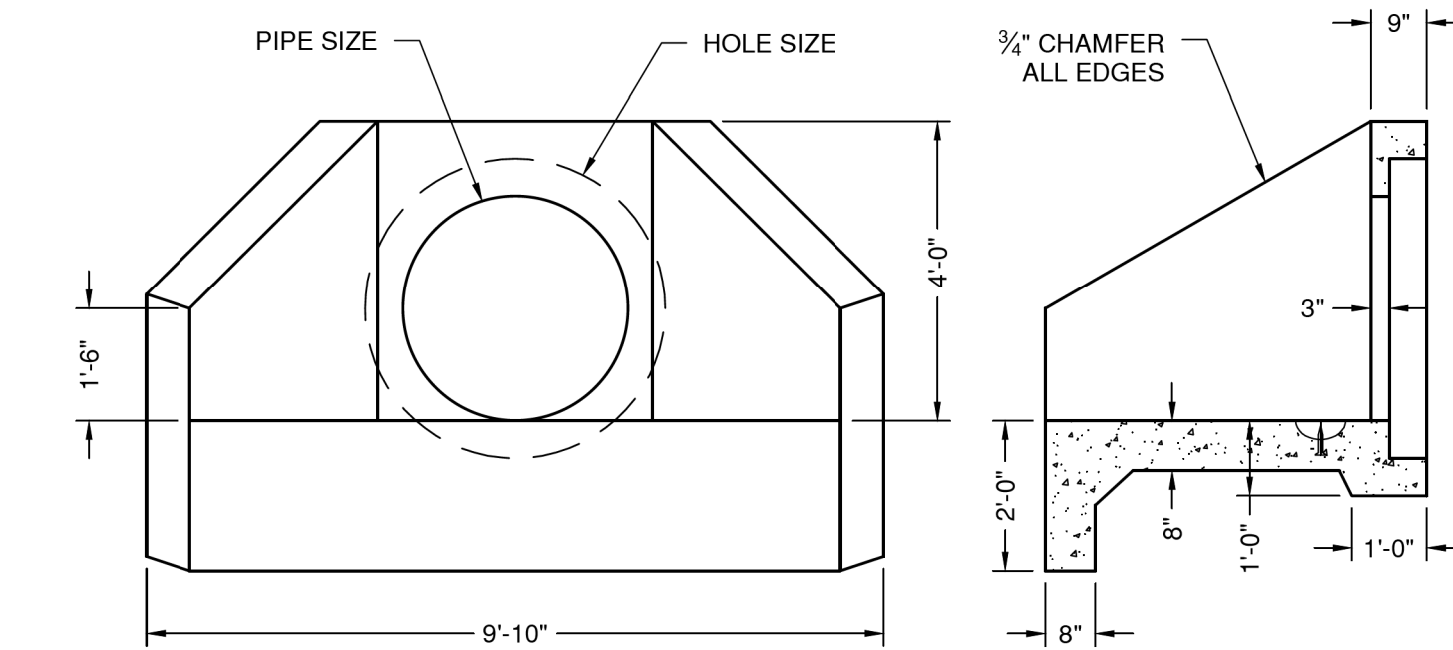
PLAN VIEW



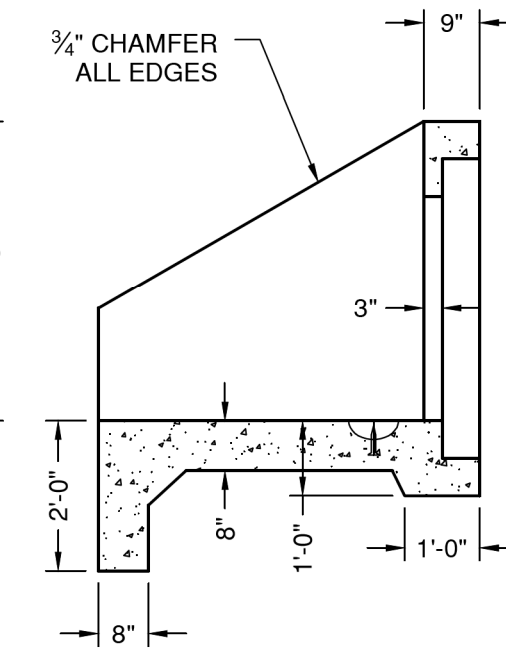
Pipe Size	Hole Size	Weight
30"	41"	9,510#
36"	48"	9,173#



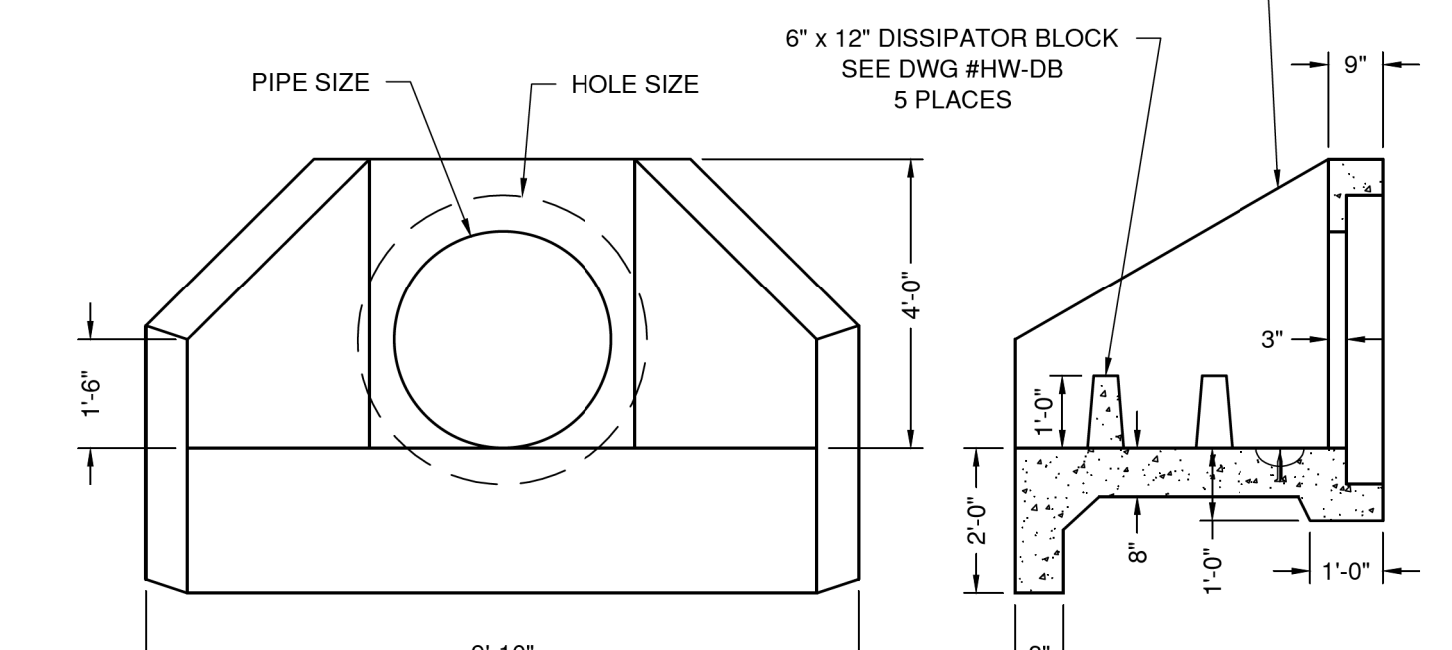
PLAN VIEW



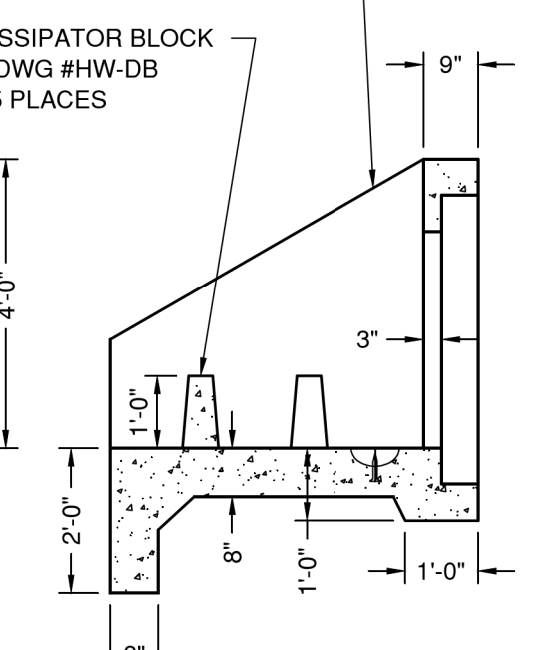
FRONT VIEW



SECTION VIEW



FRONT VIEW

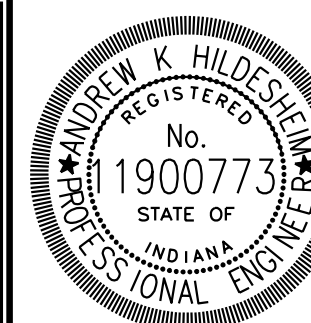


SECTION VIEW

PROPOSED HEADWALL DETAILS - 36"

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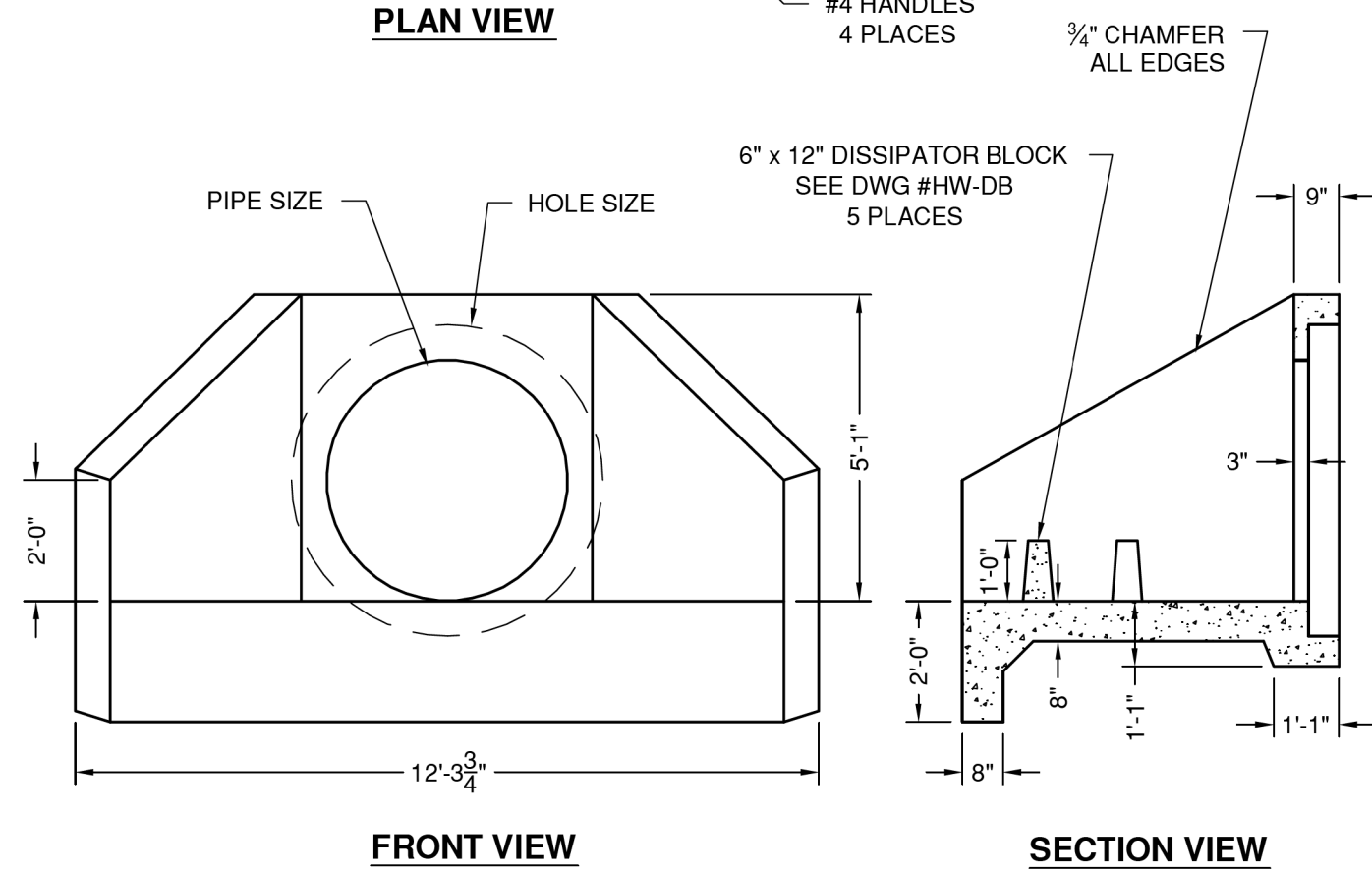
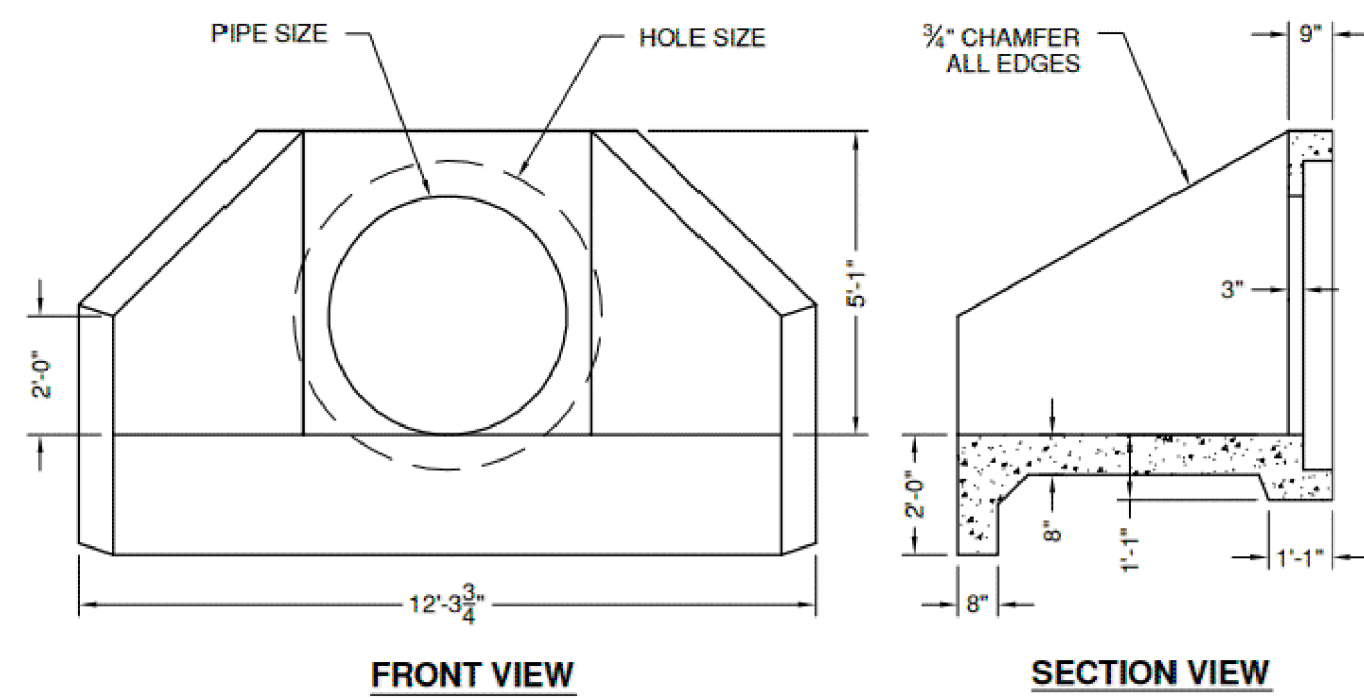
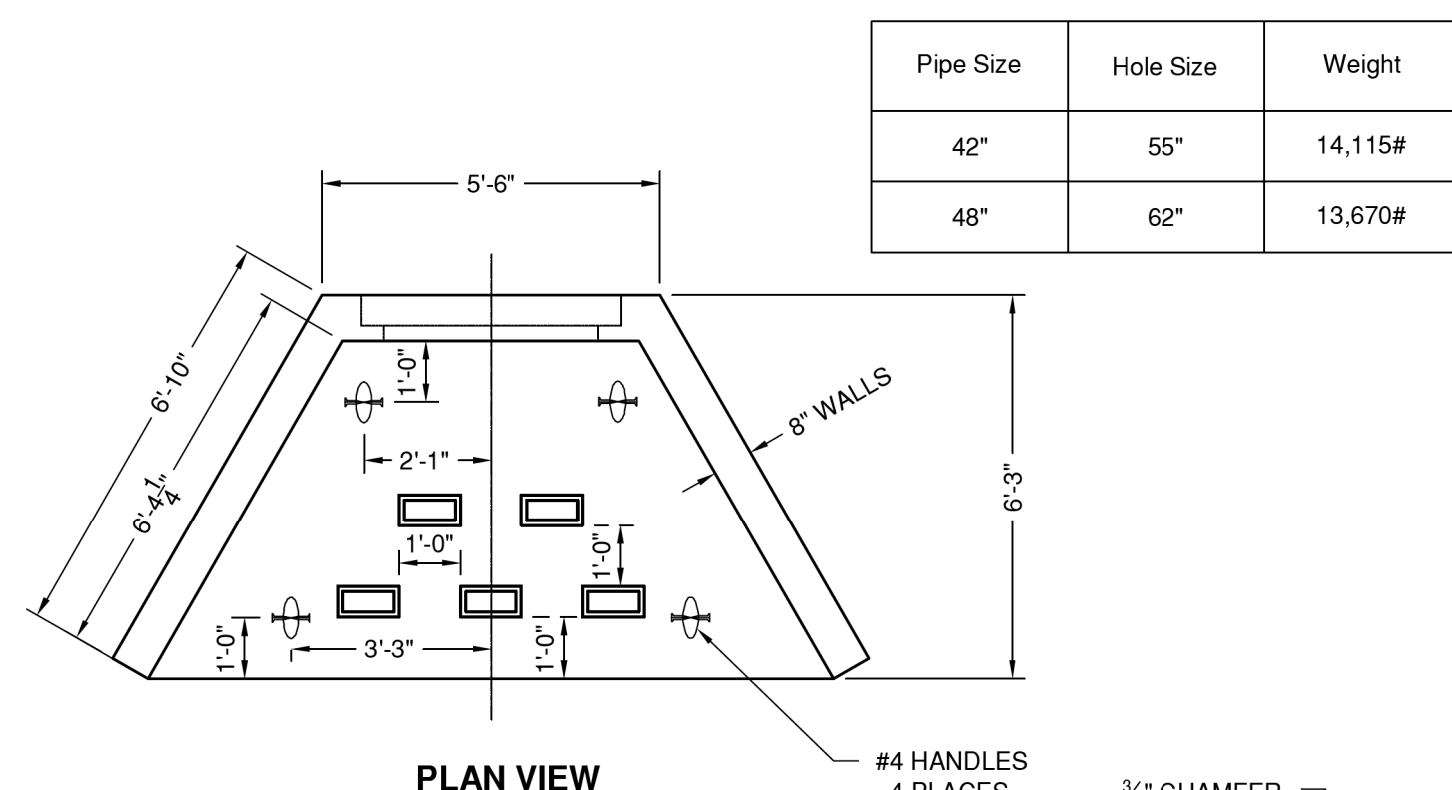
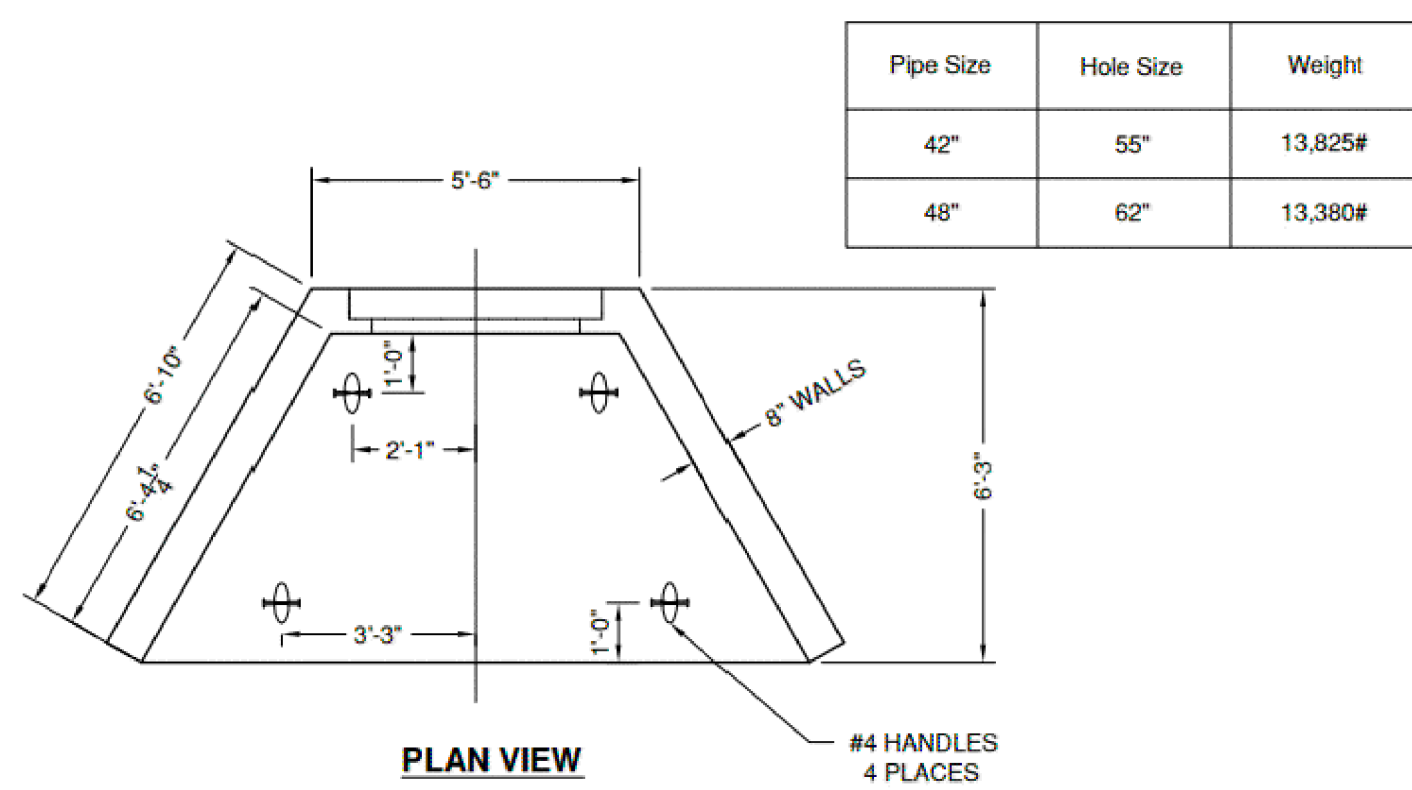


RECOMMENDED FOR APPROVAL	<i>Andrew K. Hildesheim</i>	12/6/2024
DESIGNED:	AKH	DATE
DRAWN:	AKH	
CHECKED:	DPL	
	DPL	

INDIANA DEPARTMENT OF NATURAL RESOURCES

HEADWALL DETAILS

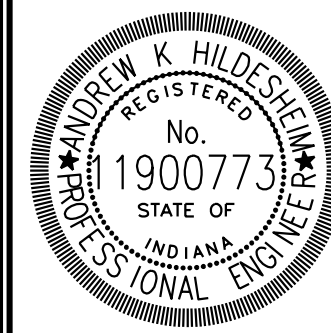
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VERTICAL SCALE	DESIGNATION
N/A	
SURVEY BOOK	SHEETS
	14 of 22
CONTRACT	PROJECT
	ENG # 2403724110



PROPOSED HEADWALL DETAILS - 42"

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 PROJECT



RECOMMENDED FOR APPROVAL *Andrew K. Hildesheim* 12/6/2024  
 DESIGN ENGINEER DATE

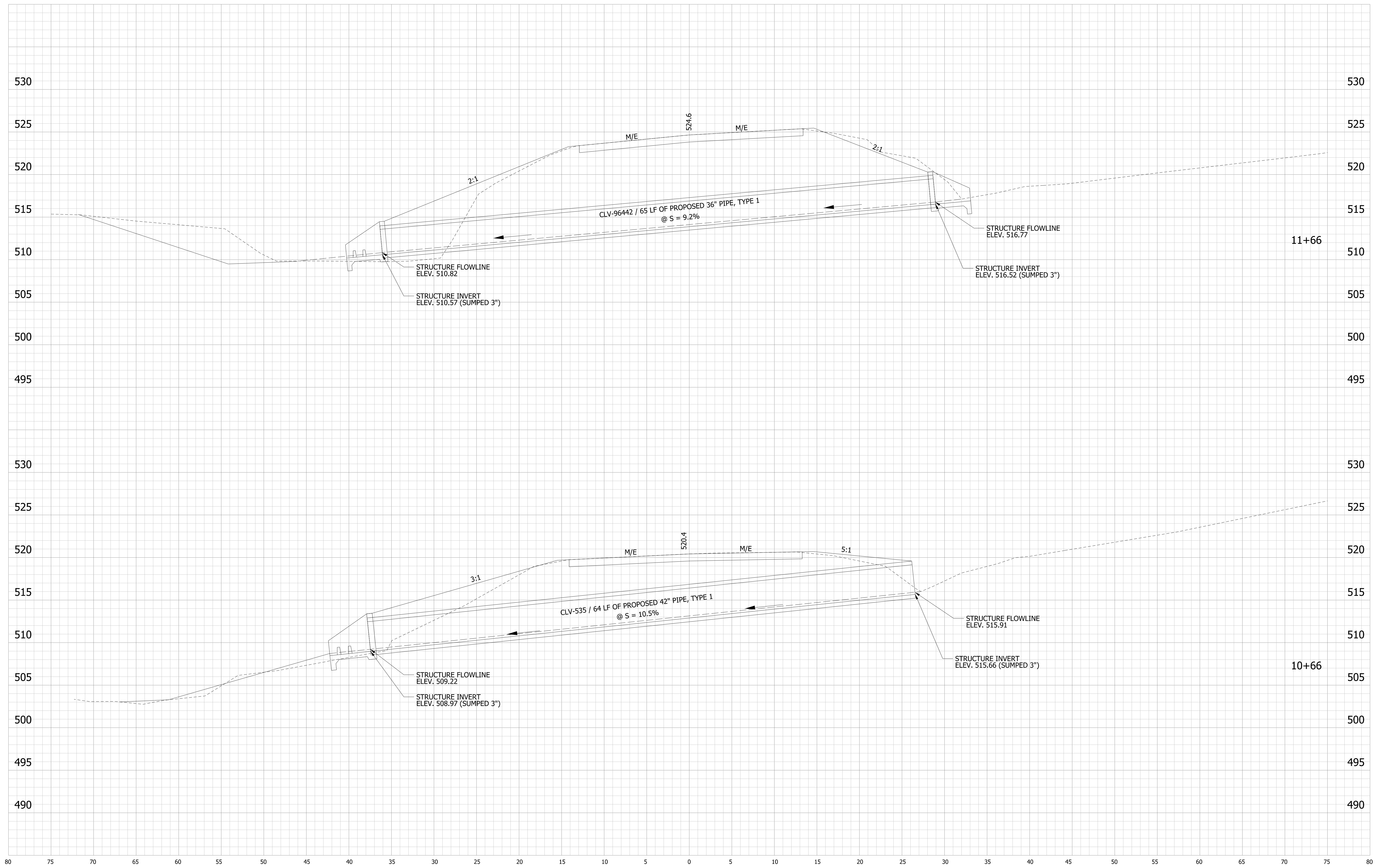
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INDIANA DEPARTMENT OF NATURAL RESOURCES

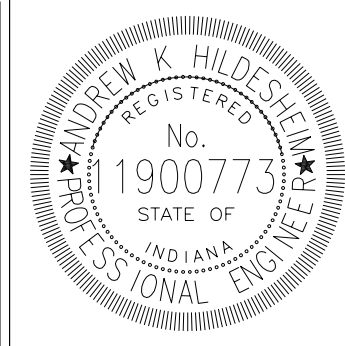
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SURVEY BOOK	SHEETS
	15 of 22
CONTRACT	PROJECT
	ENG # 2403724110



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RECOMMENDED FOR APPROVAL *Andrew Hildesheim* 12/6/2024  
 DESIGN ENGINEER DATE

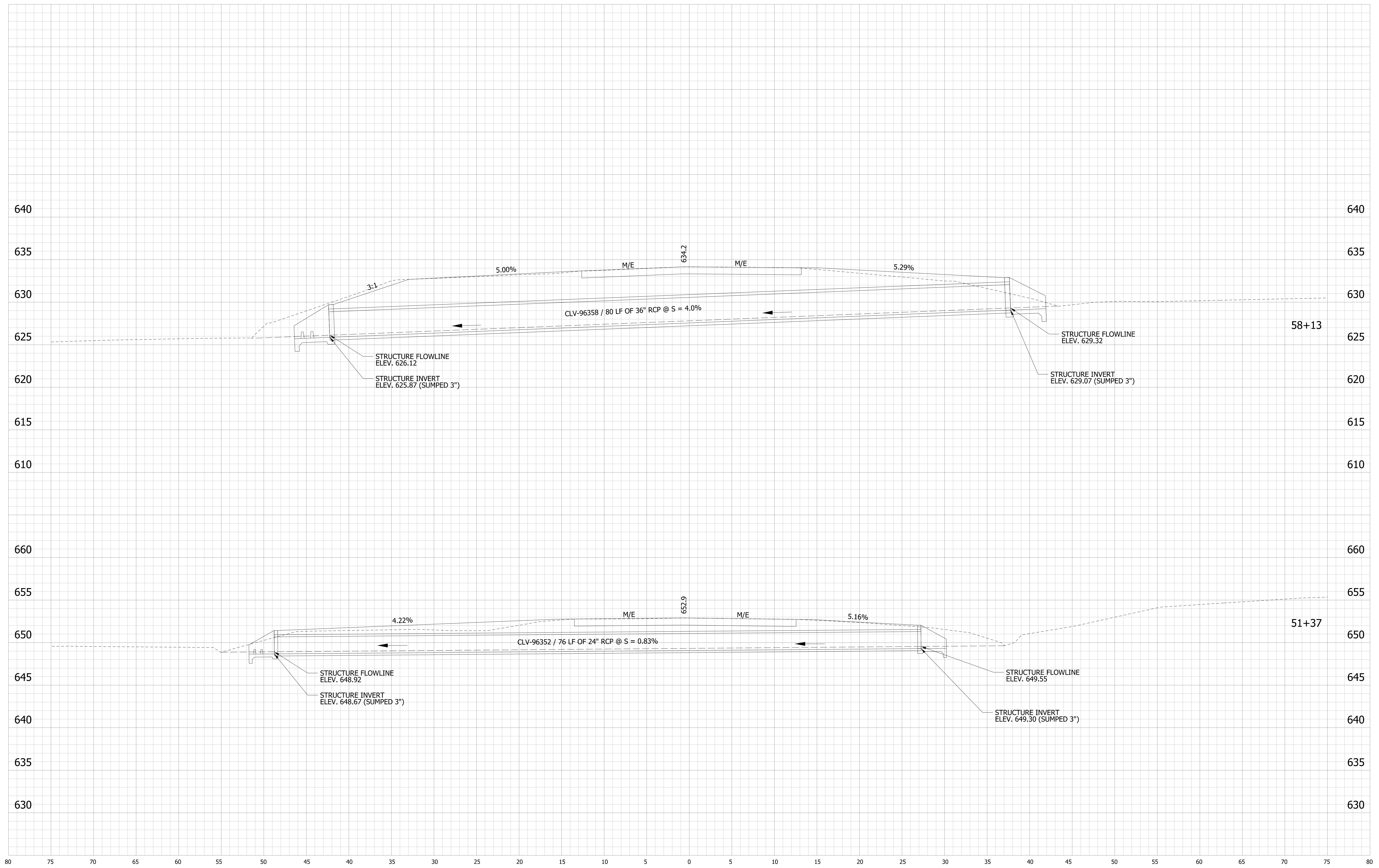
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INDIANA DEPARTMENT OF NATURAL RESOURCES

PIPE SECTION - LINE "P"  
 CLV - 535 & CLV - 96442

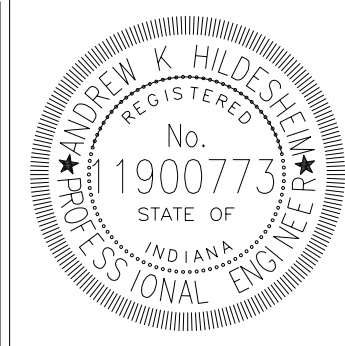
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VERTICAL SCALE 1" = 5'	DESIGNATION
SURVEY BOOK	SHEETS
CONTRACT	16 of 22
	PROJECT
	ENG # 2403724110





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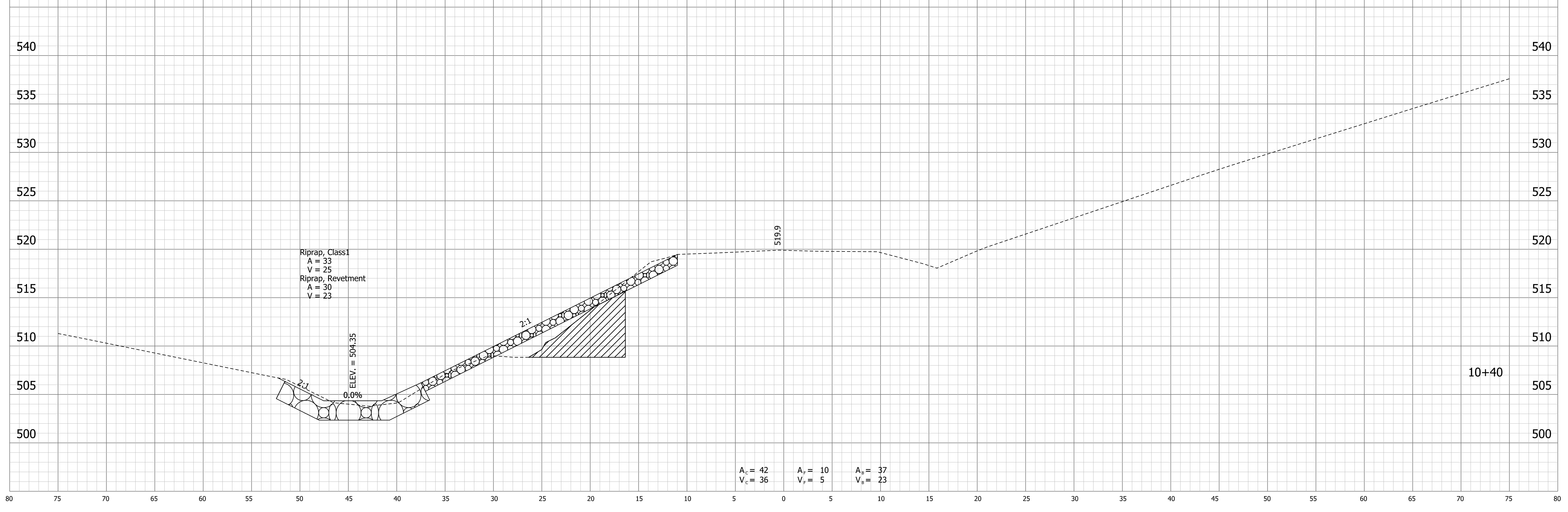
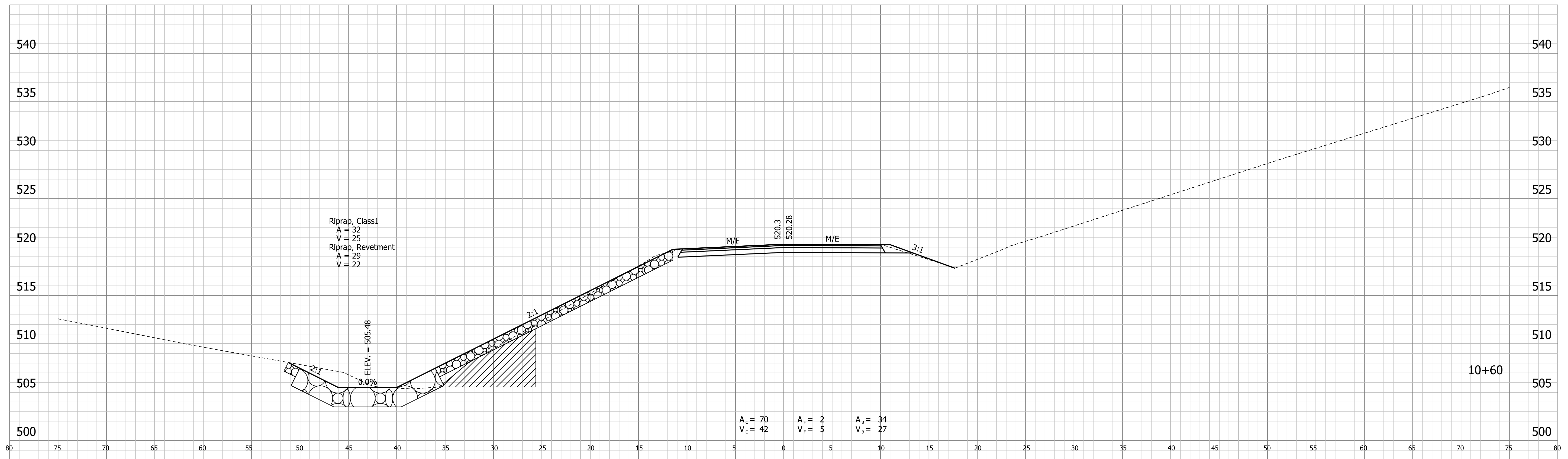
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 DESIGN ENGINEER DATE  
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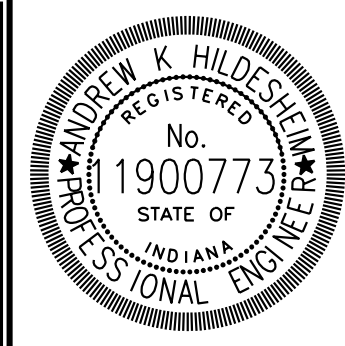
INDIANA DEPARTMENT OF NATURAL RESOURCES  
 PIPE SECTION - LINE "C"  
 CLV - 96352 & CLV - 96358

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VERTICAL SCALE	DESIGNATION
1" = 5'	
SURVEY BOOK	SHEETS
	17 of 22
CONTRACT	PROJECT
	ENG # 2403724110



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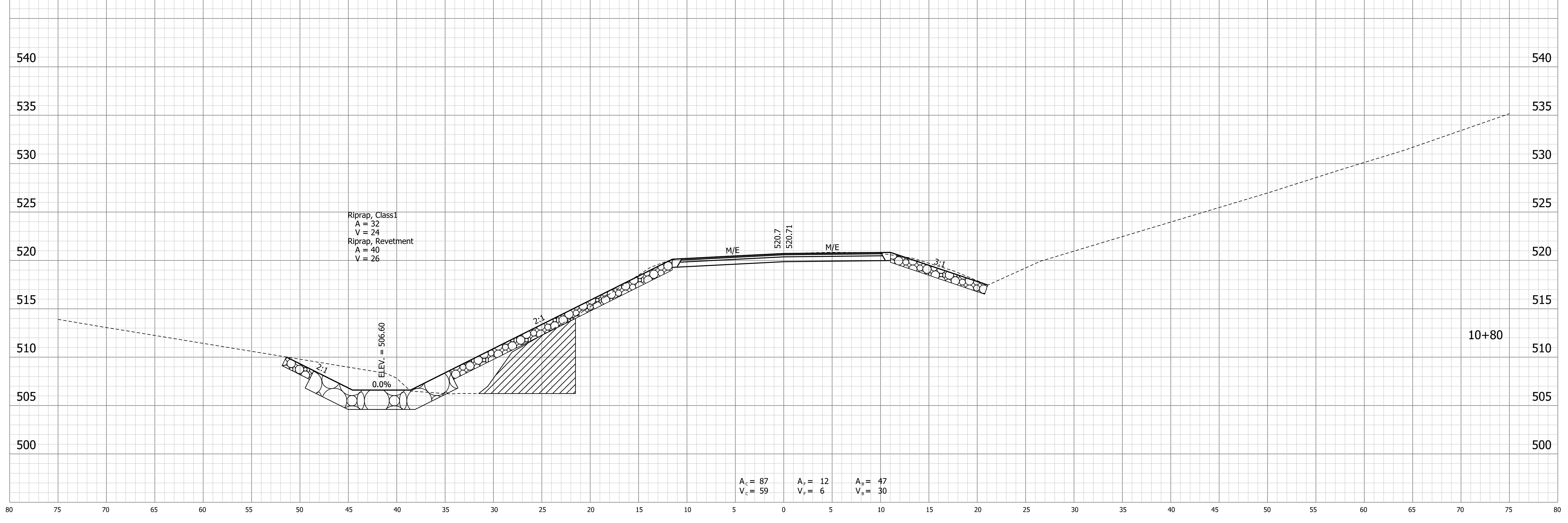
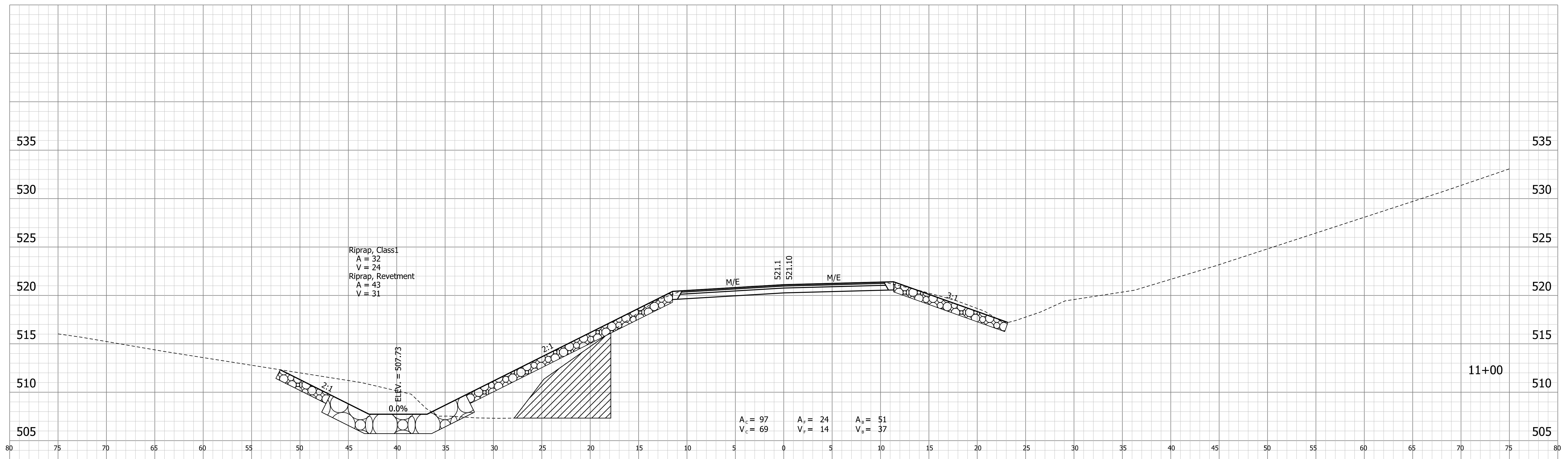
RECOMMENDED FOR APPROVAL *Andrew K. Hildesheim* 12/6/2024  
DESIGN ENGINEER DATE

DESIGNED: AKH DRAWN: AKH  
CHECKED: DPL CHECKED: DPL

INDIANA DEPARTMENT OF NATURAL RESOURCES

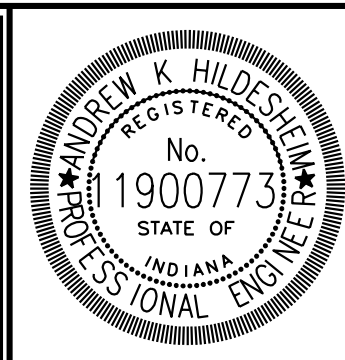
SLOPE STABILIZATION SECTIONS  
STA. 10+40 TO STA. 10+60 "P"

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VERTICAL SCALE 1" = 5'	DESIGNATION
SURVEY BOOK	SHEETS
CONTRACT	19 of 22
	PROJECT
	ENG # 2403724110



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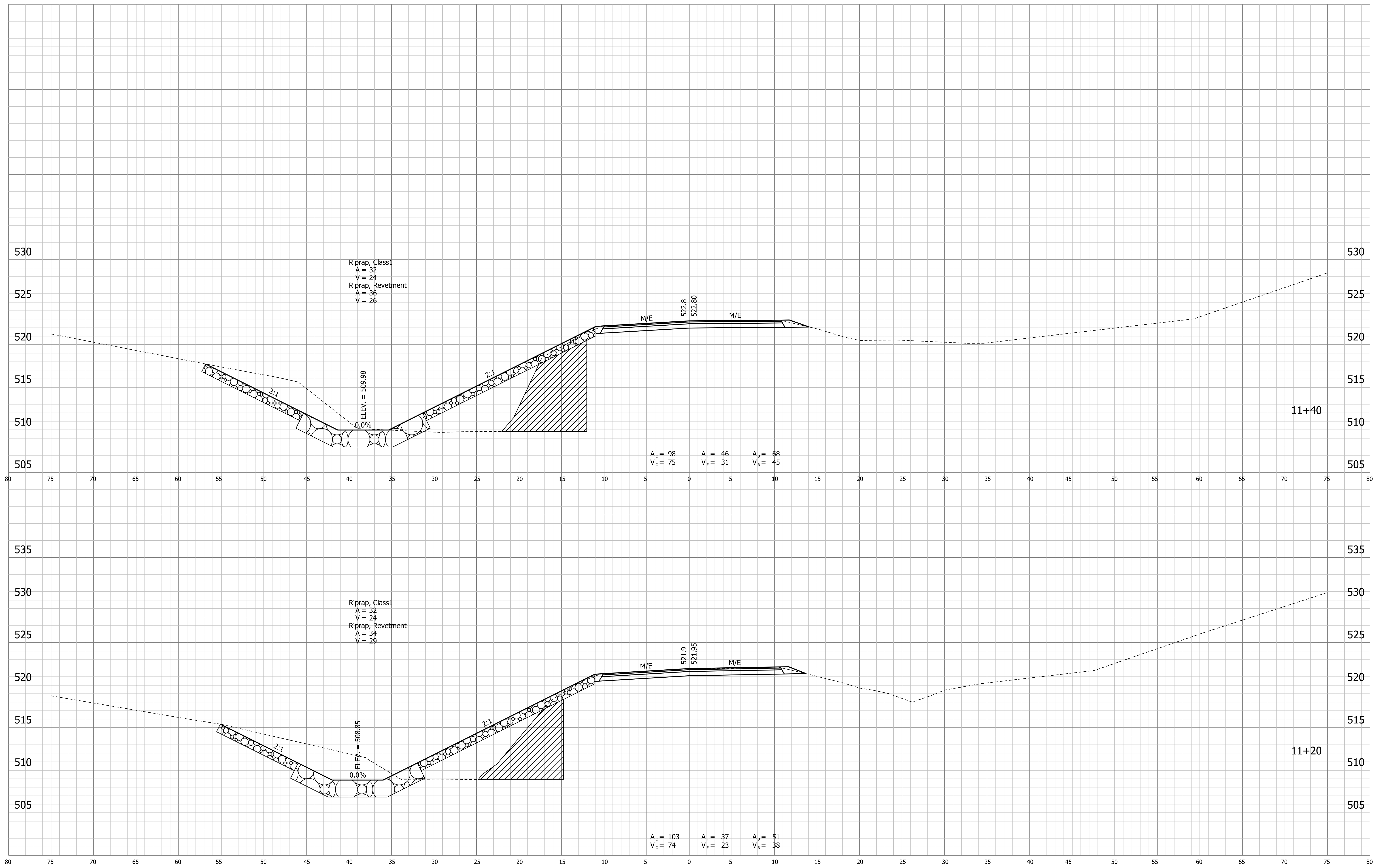
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RECOMMENDED FOR APPROVAL	<i>Andrew K. Hildesheim</i>	12/6/2024
DESIGNED:	AKH	DATE
DRAWN:	AKH	
CHECKED:	DPL	
	DPL	

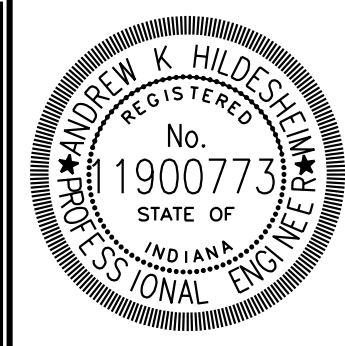
**INDIANA DEPARTMENT OF NATURAL RESOURCES**  
 SLOPE STABILIZATION SECTIONS  
 STA. 10+80 TO STA. 11+00 "P"

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VERTICAL SCALE	DESIGNATION
1" = 5'	
SURVEY BOOK	SHEETS
	20 of 22
CONTRACT	PROJECT
	ENG # 2403724110



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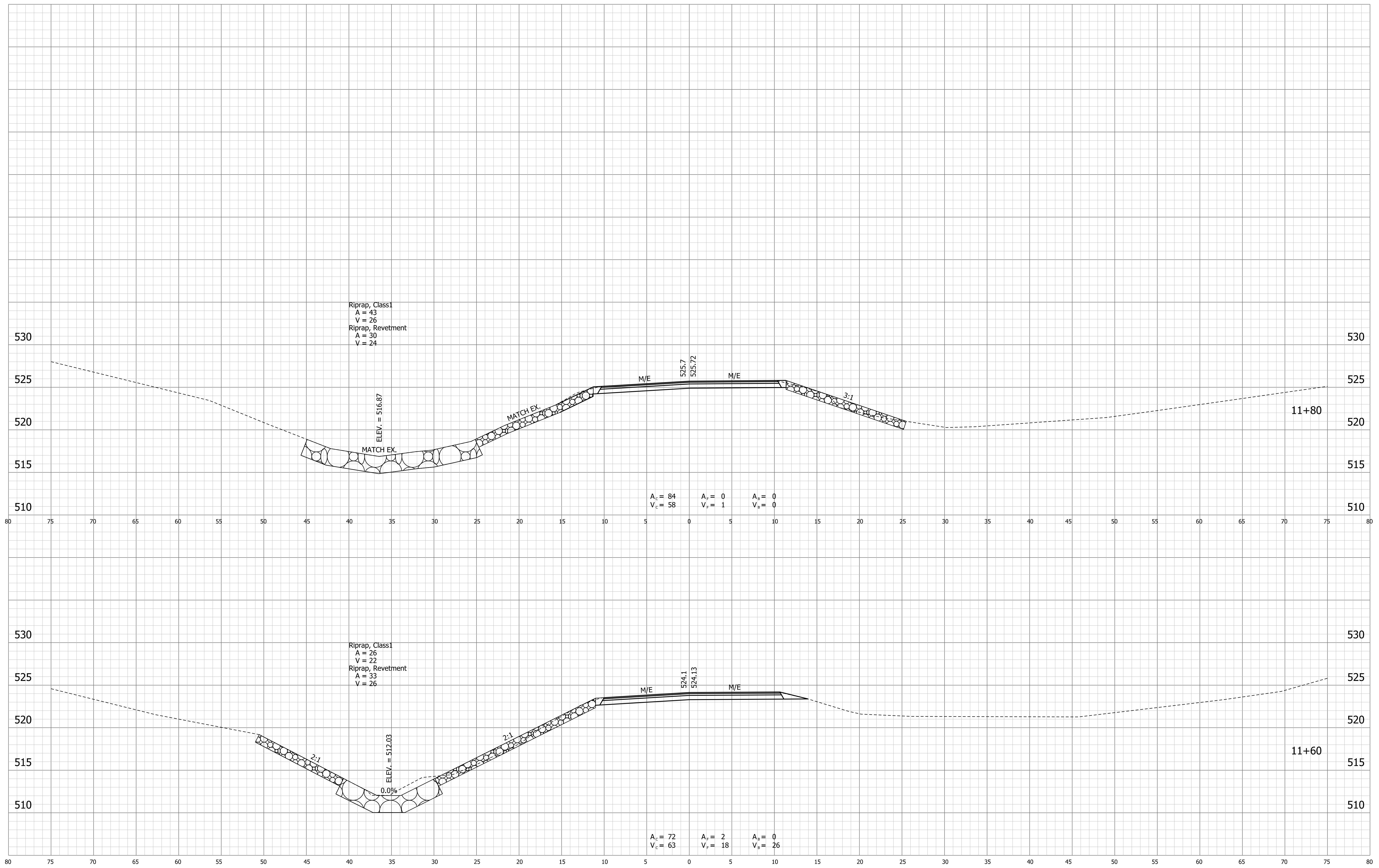
RECOMMENDED FOR APPROVAL: *Andrew K. Hildesheim* 12/6/2024  
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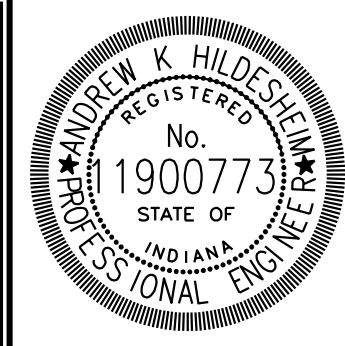
INDIANA DEPARTMENT OF NATURAL RESOURCES

SLOPE STABILIZATION SECTIONS  
 STA. 11+20 TO STA. 11+40 "P"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE
VERTICAL SCALE 1" = 5'	DESIGNATION
SURVEY BOOK	SHEETS
CONTRACT	21 of 22
	PROJECT
	ENG # 2403724110



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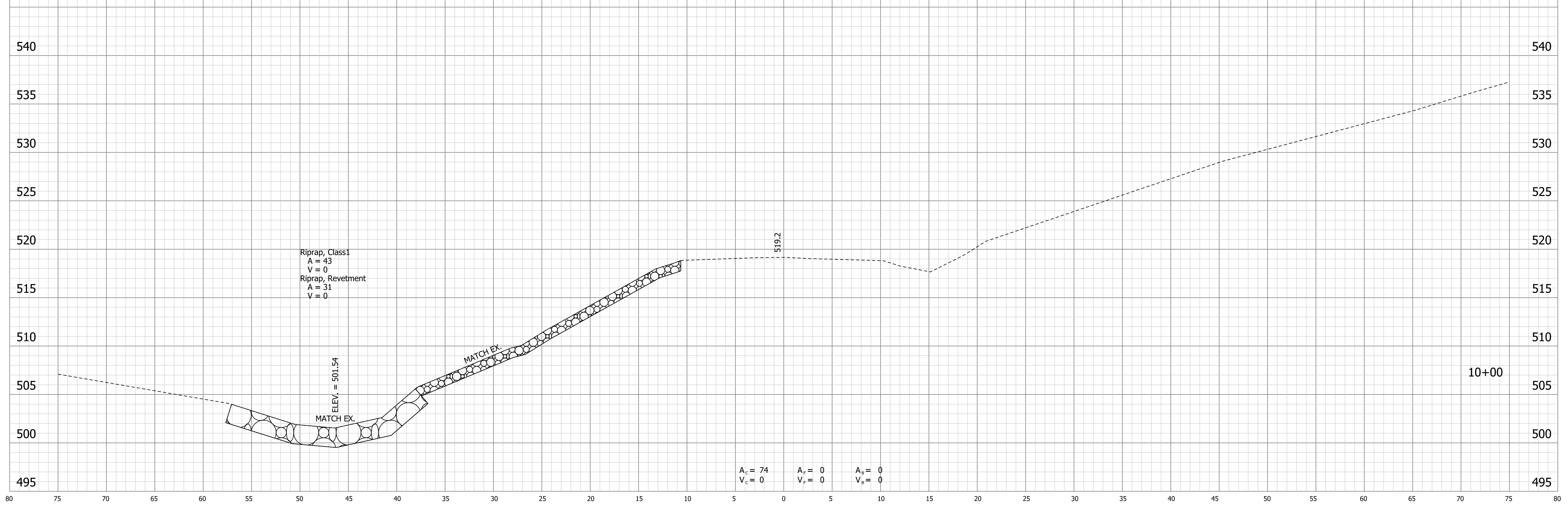
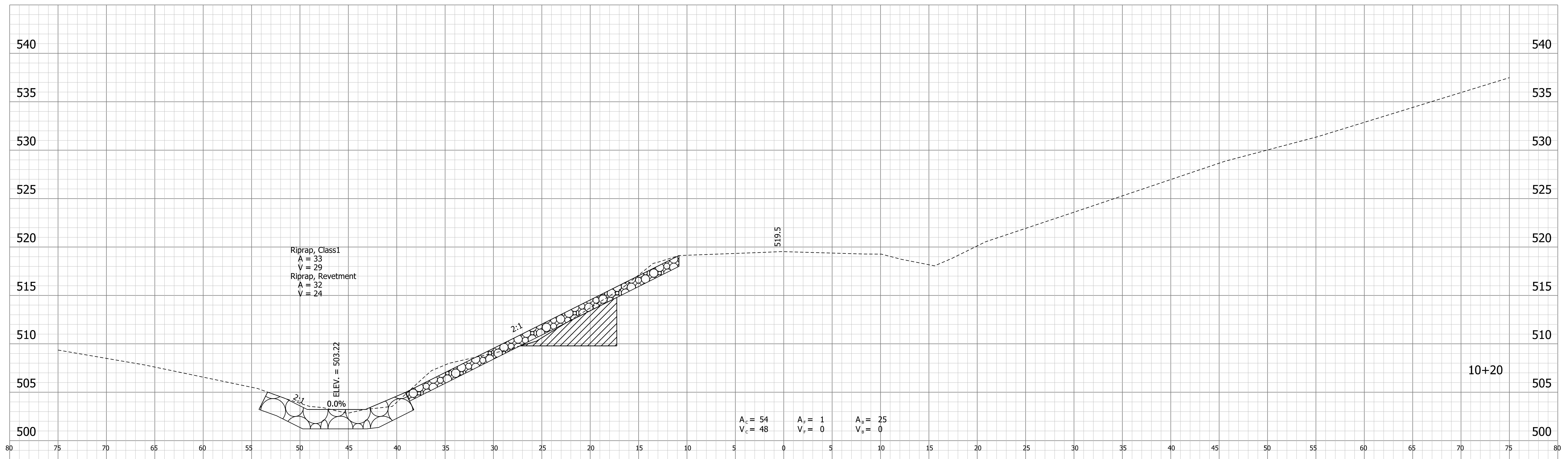
RECOMMENDED FOR APPROVAL	<i>Andrew K. Hildesheim</i>	12/6/2024
DESIGNED:	AKH	DATE
DRAWN:	AKH	
CHECKED:	DPL	
	DPL	

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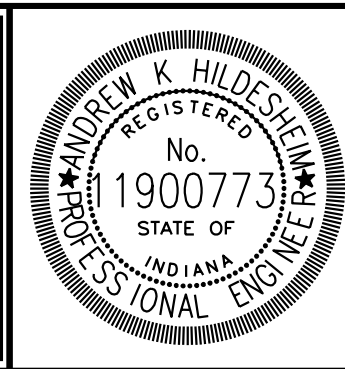
SLOPE STABILIZATION SECTIONS  
STA. 11+60 TO STA. 11+80 "P"

HORIZONTAL SCALE	BRIDGE FILE
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VERTICAL SCALE	DESIGNATION
1" = 5'	
SURVEY BOOK	SHEETS
	22 of 22
CONTRACT	PROJECT
	ENG # 2403724110

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RECOMMENDED FOR APPROVAL	<i>Andrew K. Hildesheim</i>	12/6/2024
	DESIGN ENGINEER	DATE
DESIGNED: AKH	DRAWN: AKH	
CHECKED: DPL	CHECKED: DPL	

**INDIANA DEPARTMENT  
OF NATURAL RESOURCES**  
  
**SLOPE STABILIZATION SECTIONS  
STA. 10+00 TO STA. 10+20 "P"**

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE
VERTICAL SCALE 1" = 5'	DESIGNATION
SURVEY BOOK	SHEETS
CONTRACT	18 of 22
	PROJECT
	ENG # 2403724110