

# CITY OF BERNE ADAMS COUNTY, INDIANA

## COUNTY ROAD S 150 W IMPROVEMENTS - PHASE 2 JANUARY 2025

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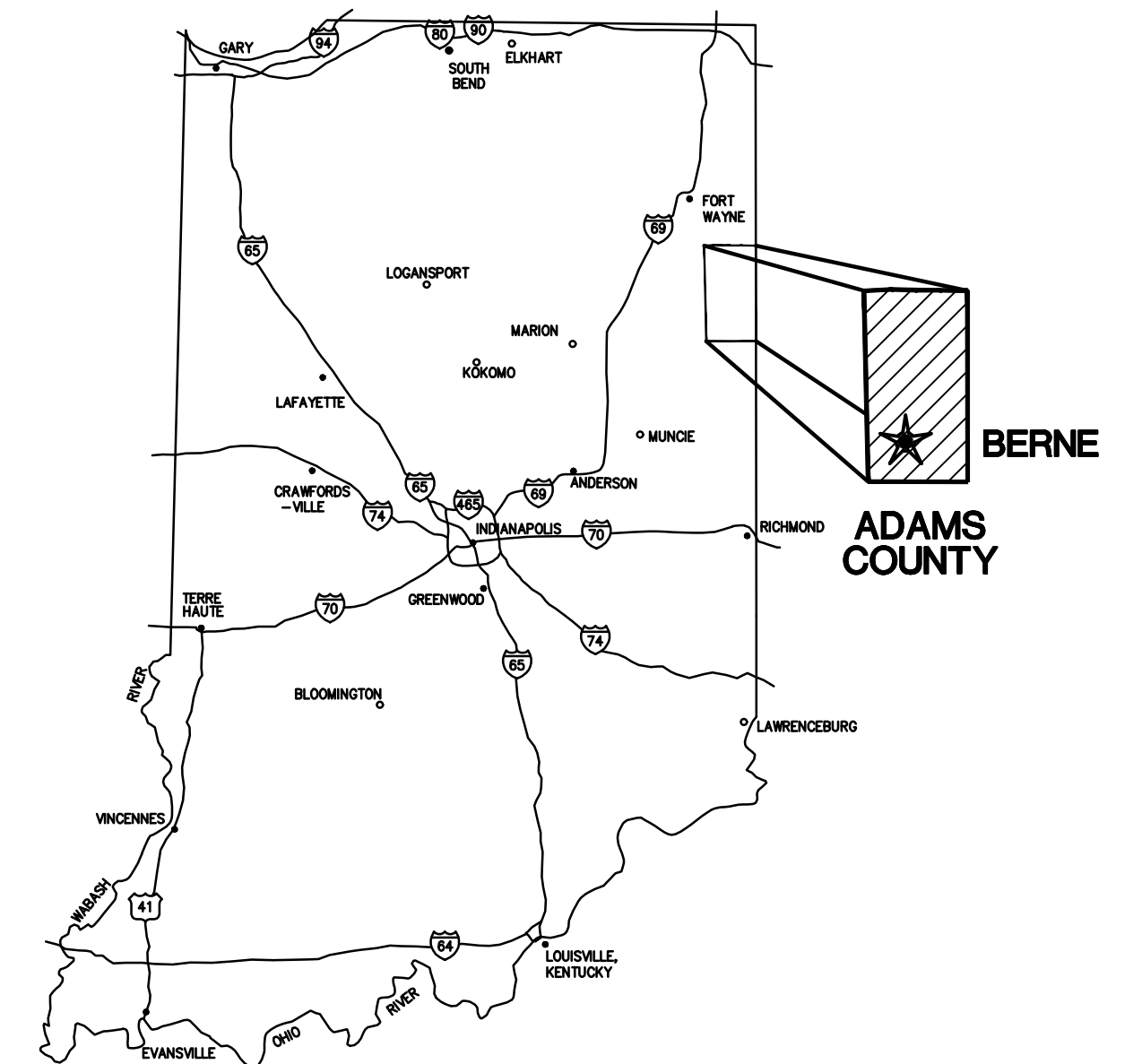
KURT DAILEY ..... WORK FORCE MANAGER  
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DAVID BAUMGARTNER ..... CITY ATTORNEY  
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ROAD RECONSTRUCTION ON C.R. S150W FROM APPROXIMATELY 190' NORTH OF THE INTERSECTION OF EIGER WAY AND WESTWIND TRAIL TO 2700' SOUTH OF THE INTERSECTION OF C.R. W500S AND C.R. S150W, SECTION 32, TOWNSHIP 25N, R14E, MONROE TOWNSHIP, ADAMS COUNTY, INDIANA

GROSS LENGTH .30 MI  
NET LENGTH .30 MI



PROJECT VICINITY MAP  
1" = 300'



GENERAL LOCATION MAP  
NO SCALE

### COMMONWEALTH ENGINEERS, INC.

APPROVED BY : *Benjamin H. Adams* 01/06/2025  
BENJAMIN H. ADAMS INDIANA PE No. 19700508 DATE :



CONTRACT NO. : H20124

GENERAL NOTES

- 1. IF ANY ERRORS OR DISCREPANCIES BECOME APPARENT, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING, AT NO ADDITIONAL COST TO THE CITY, TEMPORARY EASEMENTS NEEDED FOR STORAGE, STOCKPILING, ACCESS, OR ANY OTHER REASON, OUTSIDE OF ANY EASEMENTS OR RIGHT-OF-WAY PROVIDED.
3. THE CONTRACTOR SHALL COORDINATE THE ACTIVITIES OF THEIR PERSONNEL, SUBCONTRACTORS, AND UTILITIES PERFORMING WORK ON THIS PROJECT. THE CONTRACTOR SHALL ALSO COORDINATE WITH THE OWNER'S OPERATIONS AND MAINTENANCE PERSONNEL WHO MAY BE WORKING IN OR NEAR THE PROJECT AREA.
4. THE CONTRACTOR IS SOLELY AND COMPLETELY RESPONSIBLE FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING EROSION CONTROL AND THE SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OR WORK ON THE PROJECT.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LINES, GRADES AND ELEVATIONS. ALL PIPES SHALL SLOPE UNIFORMLY BETWEEN INVERT ELEVATIONS SHOWN.
6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE ALL MUD, DIRT, GRAVEL, AND ANY OTHER MATERIALS TRACKED ONTO ANY PUBLIC OR PRIVATE STREETS, PARKING LOTS, OR WALKS. THIS MATERIAL REMOVAL OR SWEEPING OF THE STREETS SHALL BE DONE AS FREQUENTLY AS NECESSARY TO MAINTAIN REASONABLY CLEAN AREAS. THE CONTRACTOR SHALL ALSO CONTROL DUST THROUGH THE USE OF WATERING, APPLICATION OF DUST PALLIATIVE, OR OTHER APPROVED METHODS. NO DIRECT PAYMENT WILL BE MADE FOR ANY SUCH CLEANING WORK OR DUST CONTROL.
7. EXISTING SIGNS TO BE REMOVED AND RESET AFTER CONSTRUCTION SHALL BE COORDINATED WITH THE CITY OF BERNE, AND/OR THE ADAMS COUNTY HIGHWAY DEPARTMENT.
8. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF ALL PERMITS OBTAINED FOR THE PROJECT.
9. THE COST OF ABIDING BY THE PROVISIONS OR PERMITS ISSUED BY VARIOUS AGENCIES SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. ALL ASSOCIATED BONDING REQUIREMENTS AND COSTS SHALL ALSO BE CONSIDERED INCIDENTAL TO THE CONTRACT.
10. THE CONTRACTOR SHALL PRESERVE AND PROTECT PROPERTY MARKERS, SECTION CORNERS, SURVEY MARKS AND BENCHMARKS, SUCH AS STONES, PIPES, OR OTHER MONUMENTS ENCOUNTERED. IF THE CONTRACTOR MUST DISTURB THE PROPERTY MARKERS OR MONUMENTS, THEIR HORIZONTAL AND VERTICAL LOCATION SHALL BE DETERMINED AND RECORDED BY A REGISTERED LAND SURVEYOR AND THE OWNER NOTIFIED BEFORE DISTURBING. ALL PROPERTY MARKERS AND MONUMENTS DISTURBED DURING CONSTRUCTION SHALL BE RE-ESTABLISHED BY A REGISTERED LAND SURVEYOR.
11. ROADWAY SURFACING AND BASE MATERIALS OR OTHER PROPERTY REMOVED OR DAMAGED, SHALL BE REPLACED OR REPAIRED AS PROVIDED FOR IN THE CONTRACT DOCUMENTS.
12. REGRADE AREAS AS NECESSARY WITHIN THE CONSTRUCTION LIMITS TO ALLOW PROPER DRAINAGE TO EXISTING STORM SEWER STRUCTURES. ANY EXCESS SOIL AND SPOIL MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR OFF-SITE.
13. WORK NOT SPECIFIED FOR PAYMENT AS OR PART OF THE CONTRACT DOCUMENTS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT BY THE CONTRACTOR.
14. COORDINATION AND PROPER FIT AND SURVEY OF ALL PROJECT ELEMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL CONDUCT A PRE-CONSTRUCTION STAKEOUT OF THE PROJECT ELEMENTS TO VERIFY THE COORDINATES PROVIDED.
15. THE CONTRACTOR SHALL VERIFY ALL RIM ELEVATIONS OF PROPOSED STRUCTURES PRIOR TO ORDERING ANY MATERIALS.
16. CONTRACTOR TO USE ONLY CLEAN FILL IN TRENCHES WHENEVER LARGE DEBRIS IS REMOVED.
17. THE CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL, WHICH SHALL COMPLY WITH THE LATEST ADDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). EMERGENCY TRAFFIC MUST HAVE ACCESS TO THE PROJECT AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE DRIVE CLOSURES WITH THE OWNER TWO DAYS IN ADVANCE TO DETERMINE ALTERNATE ROUTES. THE CONTRACTOR SHALL PROVIDE TEMPORARY WARNING AND DIRECTIONAL SIGNS AS DETERMINED NECESSARY BY THE OWNER AT NO ADDITIONAL COST.
18. EXISTING TREES SHALL BE PROTECTED FROM DAMAGE UNLESS NOTED TO BE REMOVED.
19. ALL ITEMS NOTED FOR DEMOLITION SHALL INCLUDE COMPLETE DEMOLITION AND REMOVAL OF EXISTING IMPROVEMENTS IN THEIR ENTIRETY INCLUDING ALL FOUNDATIONS AND OTHER APPURTENANCES UNLESS OTHERWISE NOTED ALONG WITH FILLING ANY VOIDS CREATED BY REMOVAL WITH APPROPRIATE MATERIAL AS SPECIFIED. ANY ITEMS NOTED TO BE RETURNED TO OWNER SHALL BE STORED ON SITE WHERE DIRECTED BY OWNER.
20. ALL CUT OR FILL SLOPES SHALL BE PLAIN OR MULCHED SEEDED EXCEPT WHERE SODDING IS SPECIFIED
21. PARTIAL OR COMPLETE CROSS-SECTIONS SHALL BE TAKEN IF NECESSARY TO DETERMINE THE ACTUAL QUANTITIES OF EXCAVATION

EXISTING UTILITY NOTES

- 22. THE EXISTING UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. LOCATION, SIZE, AND MATERIAL SHOWN ON UTILITIES ARE FROM AVAILABLE RECORDS AND AVAILABLE FIELD MARKINGS, SUPPLIED BY THE RESPECTIVE UTILITY COMPANY. THE INDIANA UNDERGROUND PLANT PROTECTION SERVICE (IUPPS) MUST BE NOTIFIED 48 HOURS PRIOR TO ANY EXCAVATION FOR VERIFICATION OF LOCATION, SIZE AND MATERIAL FOR EXISTING UNDERGROUND UTILITIES (1-800-382-5544).
23. SIZE, MATERIAL, DEPTH AND LOCATION OF KNOWN EXISTING UTILITIES ARE FROM AVAILABLE HISTORIC INFORMATION AND ABOVE-GROUND INSPECTION AND MEASUREMENT. THE CONTRACTOR SHALL VERIFY ALL UTILITY INFORMATION CONTAINED IN THE CONTRACT DOCUMENTS PRIOR TO ANY CONSTRUCTION WHICH WOULD BE IMPACTED BY FACILITIES NOT LOCATED AS SHOWN IN THE CONTRACT DOCUMENTS. THE COST TO CORRECT ANY FACILITIES INSTALLED PRIOR TO VERIFICATION OF EXISTING CONDITIONS BY THE CONTRACTOR SHALL BE AT NO COST TO THE OWNER OR ENGINEER/ARCHITECT. DIFFERING CONDITIONS DISCOVERED DURING VERIFICATION WILL BE HANDLED PER THE CONTRACT DOCUMENTS.
24. THE LOCATION OF UTILITIES AND STRUCTURES, BOTH SURFACE AND SUBSURFACE, ARE SHOWN ON THE PLANS FROM DATA AVAILABLE AT THE TIME OF SURVEY AND ARE NOT NECESSARILY COMPLETE OR CORRECT. DETERMINING THE EXACT LOCATION AND PROTECTING UTILITIES AND STRUCTURES IS THE RESPONSIBILITY OF THE CONTRACTOR, WHICH MAY INCLUDE CONTRACTING THE SERVICES OF A PRIVATE UTILITY LOCATOR. DURING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES AND STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT. IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR (A) THE REPAIR AND RESTORATION OF SAME IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY OWNER AND (B) ANY RESULTING CONTINGENT DAMAGE AND COST. IF UTILITY FACILITIES OTHER THAN THOSE SHOWN ARE LOCATED, OR IF UTILITIES ARE LOCATED WHICH ARE NOT IN ACCORDANCE WITH THE LOCATIONS SHOWN ON THE DRAWINGS, THE ENGINEER/ARCHITECT SHALL BE NOTIFIED TO DETERMINE IF PLAN REVISIONS ARE NEEDED.
25. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN IN SERVICE ALL EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION UNLESS OTHERWISE INDICATED IN THE DRAWINGS. ANY UTILITY WHICH CAN BE REMOVED DURING CONSTRUCTION WITHOUT UNDUE INTERRUPTION OF SERVICE MAY BE REMOVED AND REPLACED BY THE CONTRACTOR WITH THE PERMISSION OF THE OWNER AND THE APPLICABLE UTILITY OWNER.

SUBSURFACE CONDITIONS AND STOCKPILE NOTES

- 27. REFER TO THE GEOTECHNICAL REPORT INCLUDED IN THE PROJECT SPECIFICATIONS FOR SUBSURFACE CONDITION INFORMATION. INVESTIGATION OF SUBSURFACE CONDITIONS BY THE CONTRACTOR IS ALLOWED FOR BIDDING PURPOSES, AND ARRANGEMENT SHALL BE MADE WITH THE ENGINEER/ARCHITECT FOR SUCH INVESTIGATION.
28. NO PERMANENT BORROW OR STOCKPILE LOCATIONS WILL BE PROVIDED ON THE PROJECT SITE. ALL EXCESS MATERIAL MUST BE EXPORTED OFF-SITE AND ALL ADDITIONAL FILL NEED MUST BE IMPORTED FROM AN OFF-SITE SOURCE.
29. ALL BACKFILL AND STRUCTURAL FILL MATERIALS MUST COMPLY WITH THE PROJECT SPECIFICATIONS AND DESCRIPTIONS WITHIN THE GEOTECHNICAL REPORT. TOPSOIL SHALL NOT BE USED AS FILL MATERIAL.

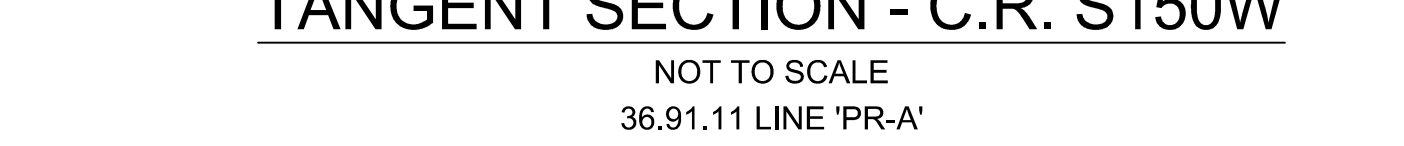
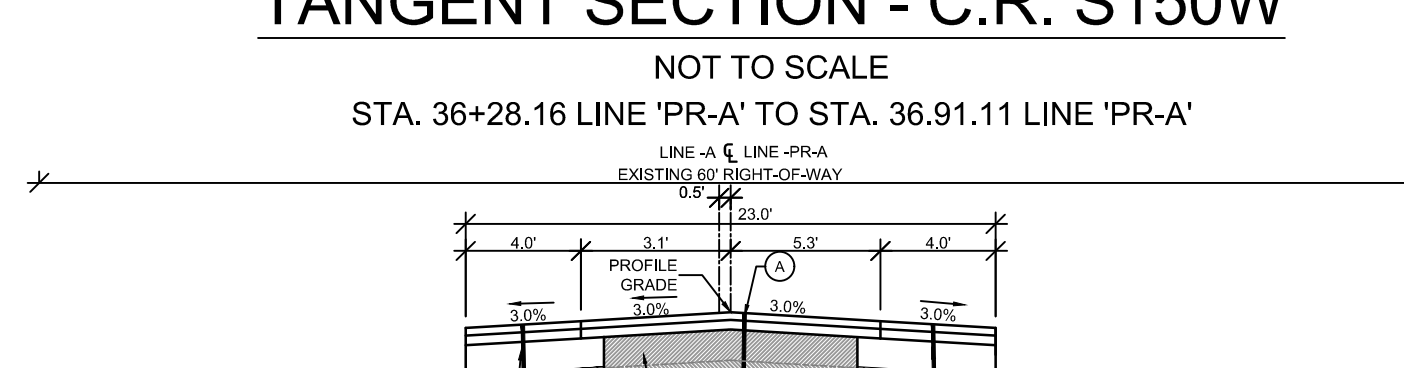
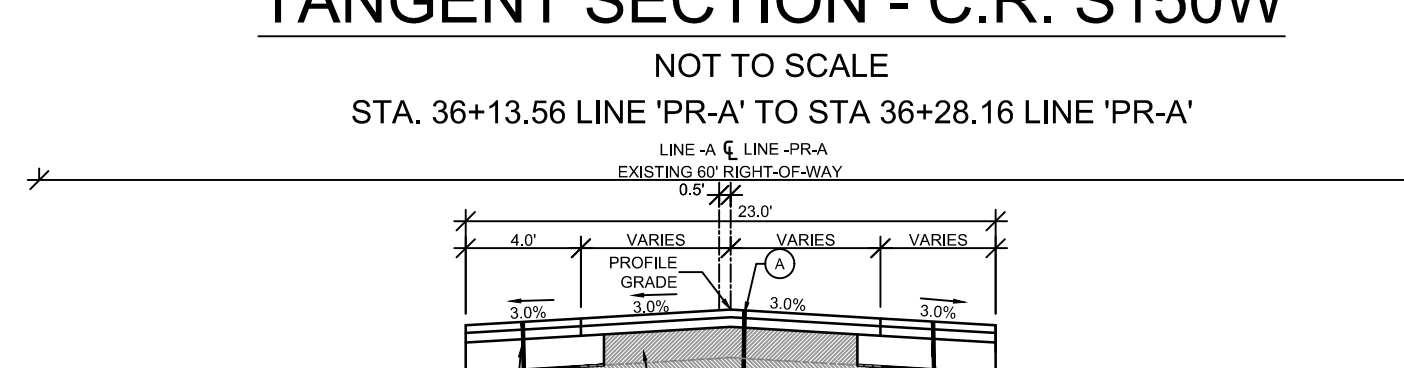
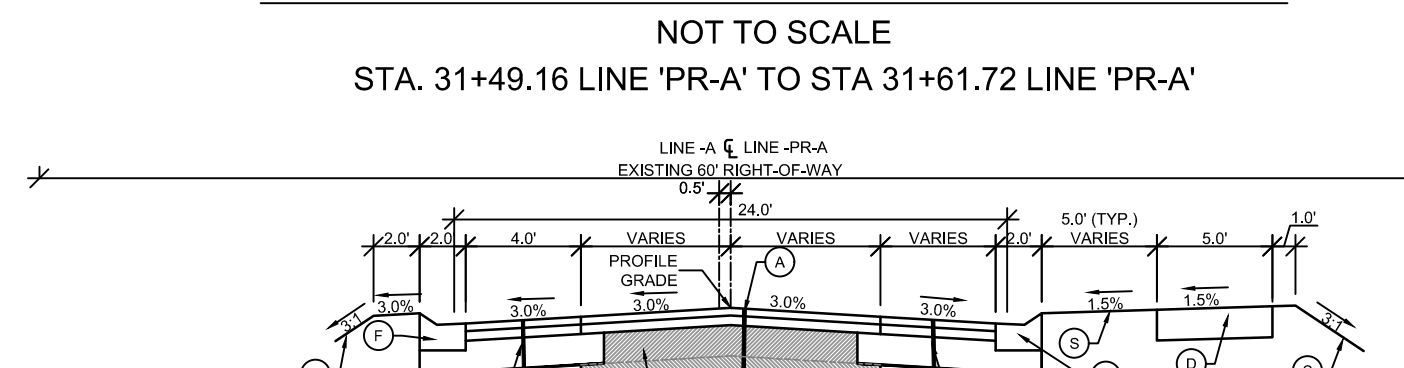
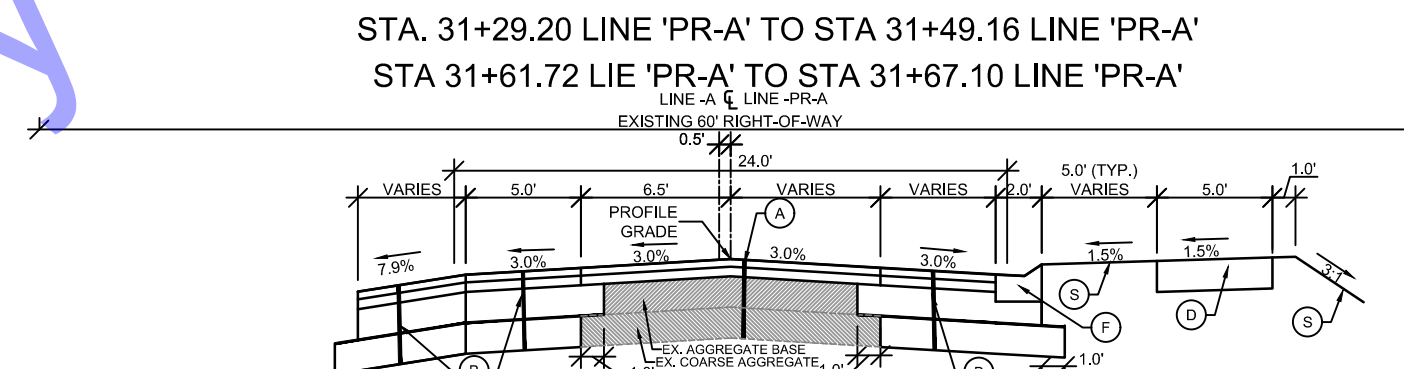
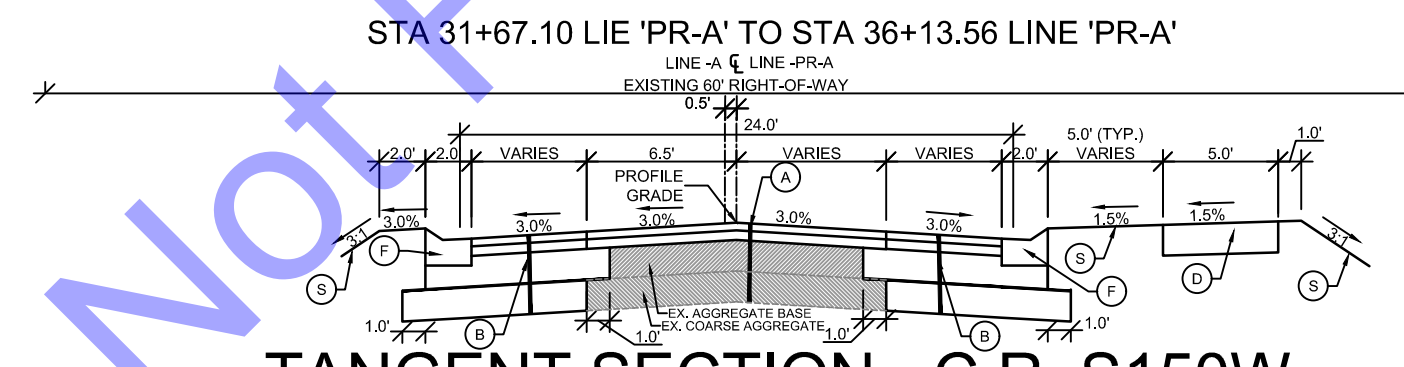
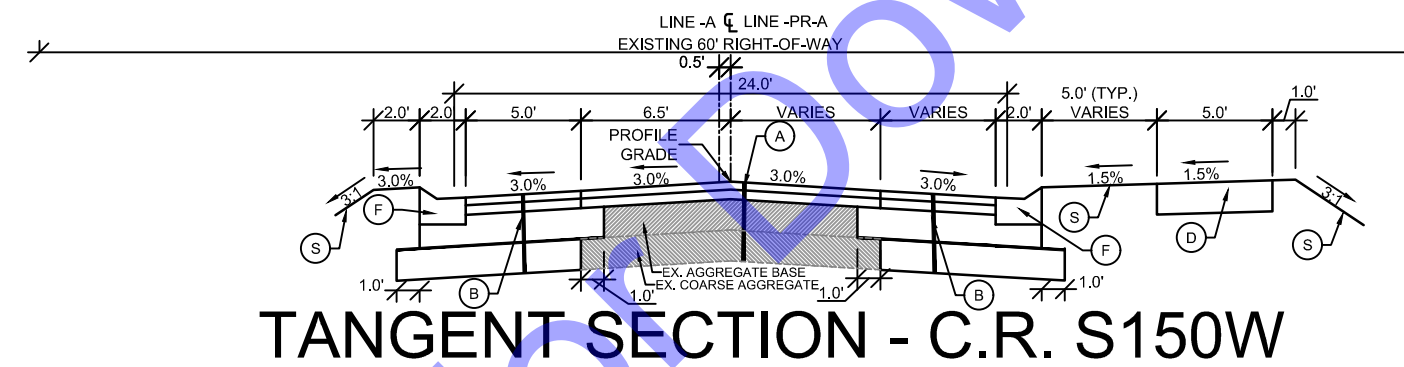
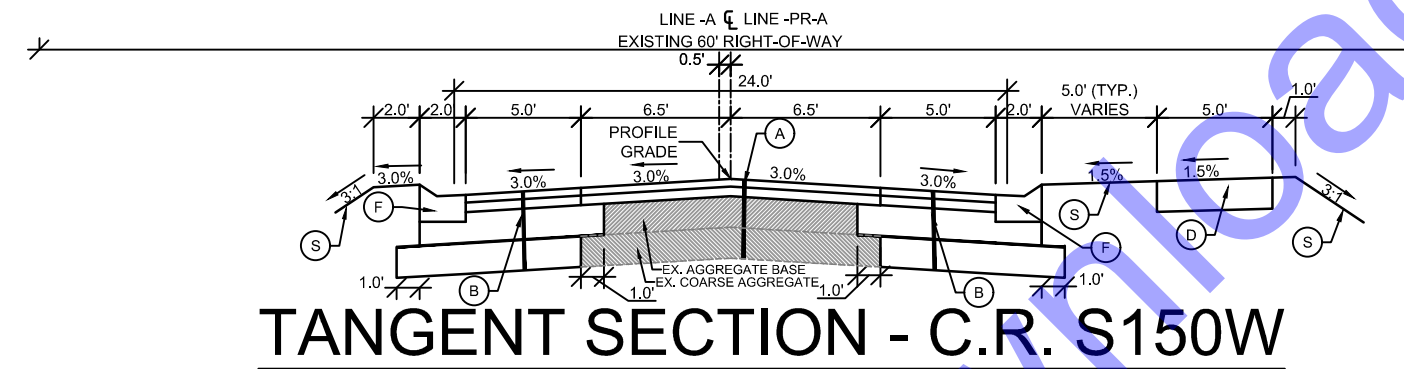
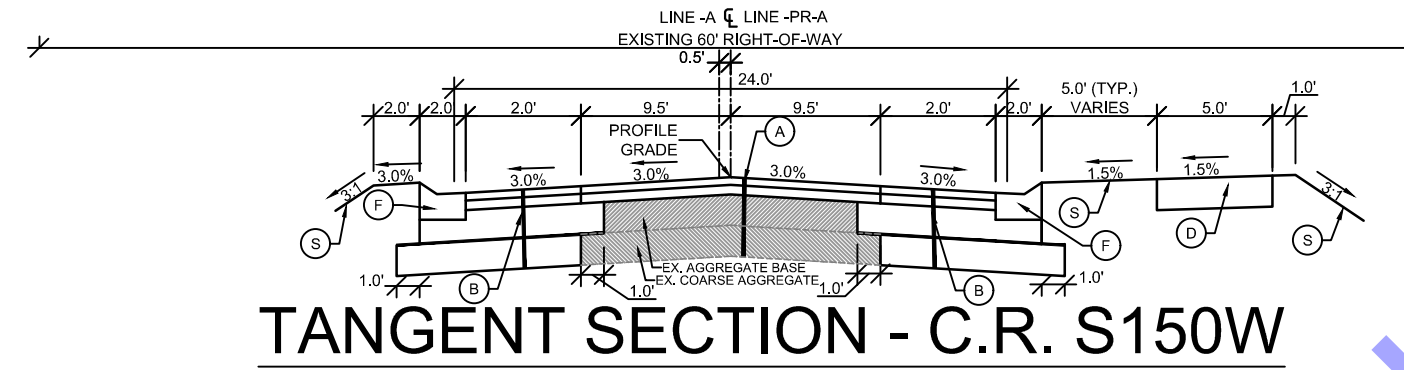
GENERAL NOTES

Table with 2 columns: Symbol and Description. Includes notes for all cut or fill slopes and partial or complete cross-sections.

UTILITY CONTACT INFORMATION table with columns: UTILTY PROVIDER, CONTACT, PHONE, ADDRESS. Lists contacts for American Electric Power, City of Berne, Century Link, Comcast Cable, Community Fiber Solutions, and NIPSCO Gas.

SYMBOL LEGEND

- EXISTING STORM INLET
EXISTING SANITARY MANHOLE
EXISTING WATER VALVE
EXISTING FIRE HYDRANT
EXISTING GAS VALVE
EXISTING GAS WARNING MARKER
EXISTING POWER POLE
EXISTING ELECTRIC DROP
EXISTING GUY WIRE EXISTING
TELEPHONE PEDESTAL
EXISTING TELEPHONE WARNING MARKER
PROPOSED STORM SEWER STRUCTURES
MANHOLE
SQUARE INLET
FLARED END SECTION
NEW HYDRANT ASSEMBLY
SPECIAL BACKFILL (PROFILES AND SECTIONS ONLY)
ASPHALT (PROFILES AND SECTIONS ONLY)



- LEGEND
A 165 #/SYD HMA SURFACE, TYPE B, 9.5MM, ON 275 #/SYD HMA, INTERMEDIATE, TYPE B, 12.5 MM, ON VARIABLE DEPTH COMPACTED AGGREGATE INDOT NO. 53 BASE, ON EXISTING AGGREGATE BASE
B HMA FOR WIDENING TO BE: 165 #/SYD HMA SURFACE, TYPE B, 9.5 MM, ON 275 #/SYD HMA, INTERMEDIATE, TYPE B, 12.5 MM, ON 8" COMPACTED AGGREGATE INDOT NO. 53, BASE ON TENSAR BX 1200 GEOGRID, ON 8" COMPACTED AGGREGATE INDOT NO. 2, SUBBASE
C CONCRETE WALK 4" PCCP, ON 4" COMPACTED AGGREGATE INDOT NO. 53, BASE
D CONCRETE ROLLED CURB & GUTTER
P PROTECT
S MULCHED SEEDING, ON 4" TOPSOIL

INDEX TO SHEETS table with columns: SHEET #, DWG #, DESCRIPTION. Lists sheets 1 through 22 including title sheet, index, and various plan and profile sheets.

LINE LEGEND table with columns: Symbol, Description. Lists symbols for existing and proposed storm, sanitary, and water lines, as well as overhead electric and telephone lines.

COMMONWEALTH ENGINEERS, INC. logo and address information: OFFICE LOCATIONS IN INDIANAPOLIS, IN (2); EVANSVILLE, IN; FORT WAYNE, IN; CROWN POINT, IN; BOWLING GREEN, KY; SOUTH BEND, IN.

Professional Engineer Seal for Benjamin H. Adams, No. 19700508, State of Indiana, dated 1-6-2025.

CITY OF BERNE, ADAMS COUNTY, INDIANA. CR S 150 W IMPROVEMENTS - PHASE 2. INDEX, GENERAL NOTES, LEGEND, AND TYPICAL SECTIONS.

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Table with columns: Date, By, NUS, Submittal / Revision, BID SET, No., Designed By, Drawn By, Checked By, Issue Date, Project No, Scale. Includes dates and names for project management.

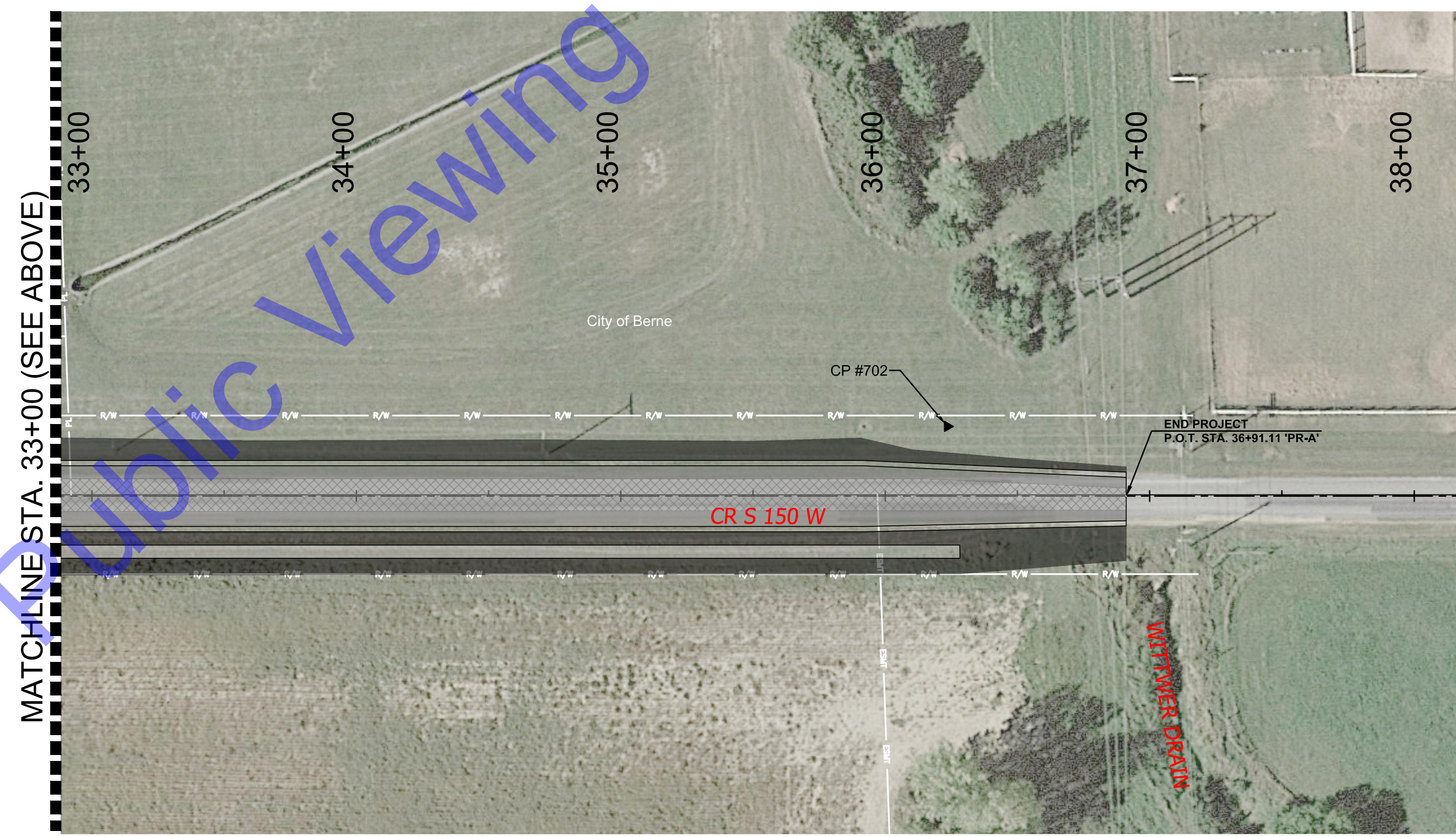
G1 Drawing No. Sheet: 2 OF 22



PLAT NO. 1  
 40' 0 40'

CONTROL TABLE				
Point #	Northing	Easting	Elevation	Description
503*	157429.477	789662.184	833.481'	5/8" Steel Rebar w/"Miller" Control Cap id.
602*	157278.718	784690.882	861.635'	5/8" Steel Rebar w/"Miller" Control Cap id.
700*	157280.024	783193.370	862.842'	5/8" Steel Rebar w/"Miller" Control Cap id.
701	158668.312	783137.045	861.553'	5/8" Steel Rebar w/"Miller" Control Cap id.
702	159830.254	783148.453	852.451'	5/8" Steel Rebar w/"Miller" Control Cap id.
7799*	157861.824	783195.759	866.048'	TBM - NE. Bonnet Bolt on Fire Hydrant
7800*	157534.225	783196.048	864.663'	TBM - NE. Bonnet Bolt on Fire Hydrant

\* CONTROL POINT LOCATIONS CAN BE PROVIDED UPON REQUEST  
 The Above Elevations are Based on North American Vertical Datum (NAVD88)



PLAT NO. 2  
 40' 0 40'

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<https://commonwealthengineers.com/>

OFFICE LOCATIONS IN:  
 INDIANAPOLIS, IN. (2)  
 EVANSVILLE, IN.  
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 CROWN POINT, IN.  
 BOWLING GREEN, KY.  
 SOUTH BEND, IN.

REGISTERED PROFESSIONAL ENGINEER  
 No. 19700508  
 STATE OF INDIANA  
 Benjamin H. Adams  
 Signature Date 1-6-2025

CITY OF BERNE  
 ADAMS COUNTY,  
 INDIANA

CR S 150 W IMPROVEMENTS -  
 PHASE 2

PLAT NO. 1 & 2

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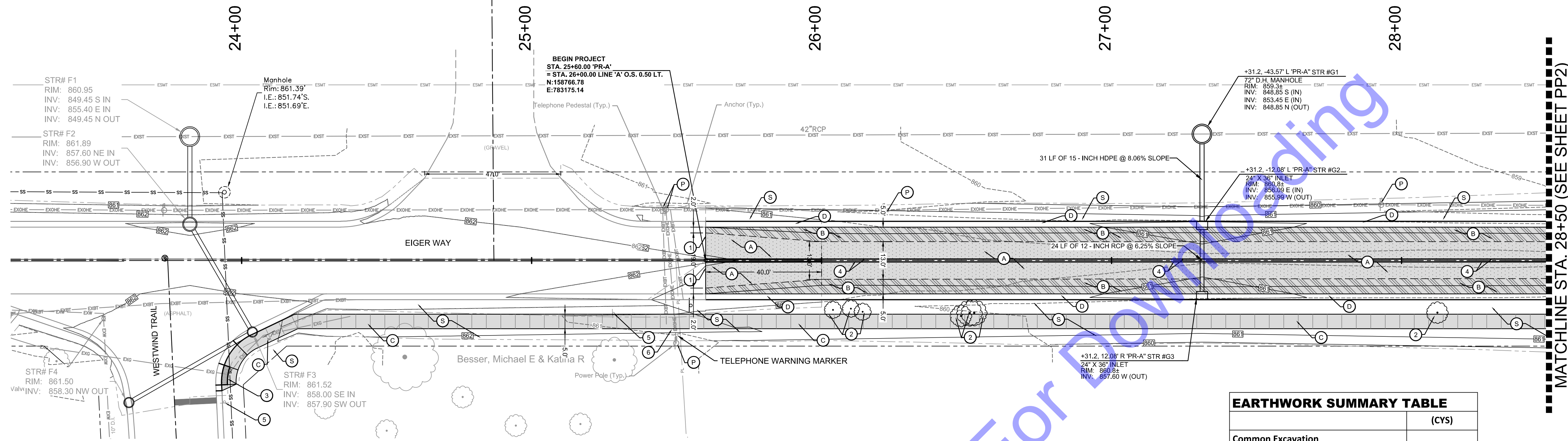
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No.	Submittal / Revision	By	Date
1	BID SET	NJS	8/13/24

Designed By: NJS	Drawn By: EJK	Checked By: BA
Issue Date: 12/18/2024	Project No: H20124	Scale: AS SHOWN

**P1**

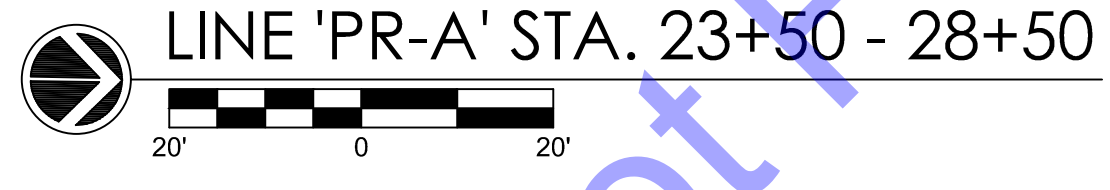
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MATCHLINE STA. 28+50 (SEE SHEET PP2)

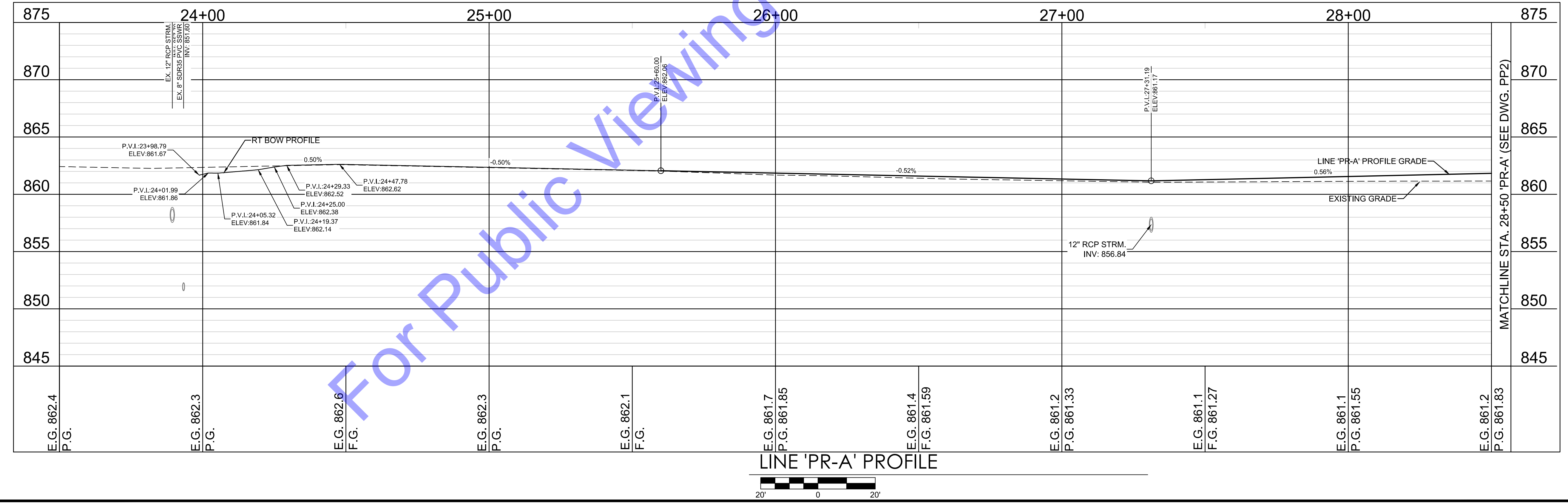
- LEGEND**
- (A) 165 # SYD HMA, SURFACE, TYPE B, 9.5MM, ON 275 # SYD HMA, INTERMEDIATE, TYPE B, 12.5 MM, ON VARIABLE DEPTH COMPACTED AGGREGATE INDOT NO. 53 BASE, ON EXISTING AGGREGATE BASE
  - (B) HMA FOR WIDENING TO BE: 165 # SYD HMA, SURFACE, TYPE B, 9.5 MM, ON 275 # SYD HMA, INTERMEDIATE, TYPE B, 12.5 MM, ON 8" COMPACTED AGGREGATE INDOT NO. 53, BASE ON TENSAR BX 1200 GEOGRID, ON 8" COMPACTED AGGREGATE INDOT NO. 2, SUBBASE
  - (C) CONCRETE WALK  
4" PCCP, ON 4" COMPACTED AGGREGATE INDOT NO. 53, BASE
  - (D) CONCRETE ROLLED CURB & GUTTER
  - (P) PROTECT
  - (S) MULCHED SEEDING, ON 4" TOPSOIL
  - (1) SAWCUT
  - (2) REMOVE
  - (3) TYPE C RAMP
  - (4) LINE, PAINT, SOLID YELLOW, 4"
  - (5) REMOVE AND REPLACE SIGN AS NEEDED DURING CONSTRUCTION
  - (6) GENERAL NOTES PAVEMENT MARKING
- PAVEMENT MARKINGS WITHIN THE PUBLIC RIGHT - OF - WAY (SHALL BE THERMOPLASTIC.
  - PAVEMENT SHALL BE GROOVED PRIOR TO THE PLACEMENT OF LONGITUDINAL DURABLE PAVEMENT MARKINGS. (REFER TO SECTION 808 OF THE 2020 INDOT STANDARD SPECIFICATIONS)
  - PAVEMENT MARKING WITHIN PUBLIC RIGHT-OF-WAY TO BE INSTALLED PER INDOT SPECIFICATIONS. (REFER TO SECTION 808 OF THE 2020 INDOT STANDARD SPECIFICATIONS)
  - REMOVE EXISTING PAVEMENT MARKINGS AS NEEDED TO ACCOMMODATE PROPOSED PAVEMENT MARKINGS.

- CONTOUR LEGEND**
- (800) PROPOSED CONTOUR
  - (---) EXISTING CONTOUR
  - (---) FLOW LINE OF DITCH



EARTHWORK SUMMARY TABLE	
	(CYS)
<b>Common Excavation</b>	
Line 'PR-A'	830
<b>Total Common Excavation</b>	830
Asphalt Removal from Widening	39
<b>Usable Common Excavation</b>	791
<b>Fill Needed</b>	
Line 'PR-A'	1,015
Swell (25%)	254
<b>Total Fill Needed</b>	1,269
Less Usable Common Excavation	791
<b>Total Fill (Offsite Borrow)</b>	478

ALL R/W AND TOPOGRAPHY DESCRIBED FROM LINE 'PR-A' UNLESS OTHERWISE NOTED



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 OFFICE LOCATIONS IN:  
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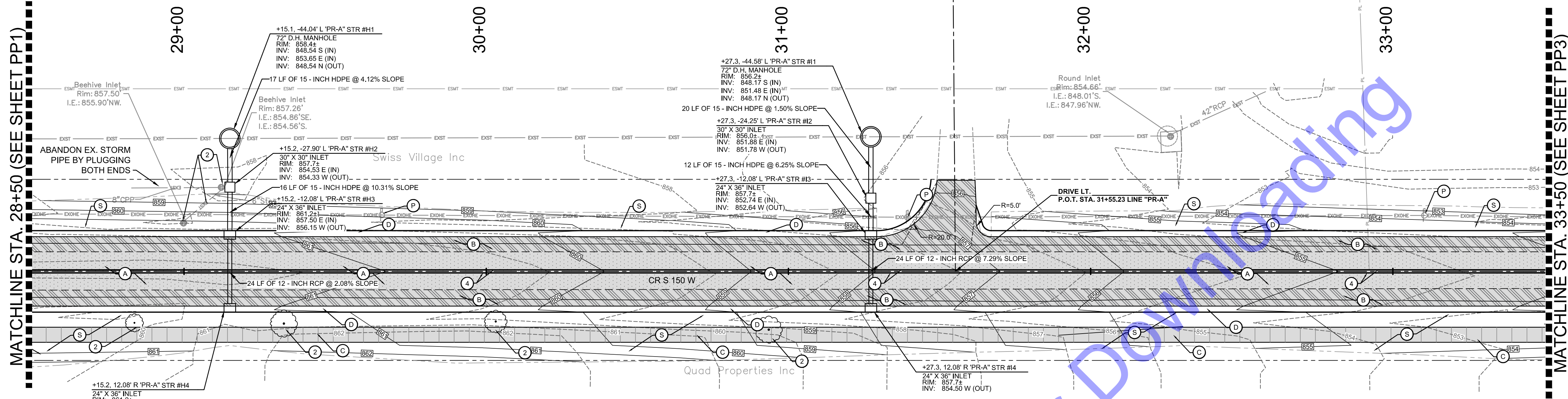
**CITY OF BERNE, ADAMS COUNTY, INDIANA**  
 CR S 150 W IMPROVEMENTS - PHASE 2  
 PLAN AND PROFILE - LINE 'PR-A' STA. 23+50 - 29+00

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No.	Submitted / Revision	Date
1	BID SET	8/13/24

Designed By:	Drawn By:	Checked By:
NJS	EJK	BA
Issue Date:	Project No:	Scale:
12/18/2024	H20124	AS SHOWN

**PP1**  
 Drawing No:  
 Sheet: 4 OF 22



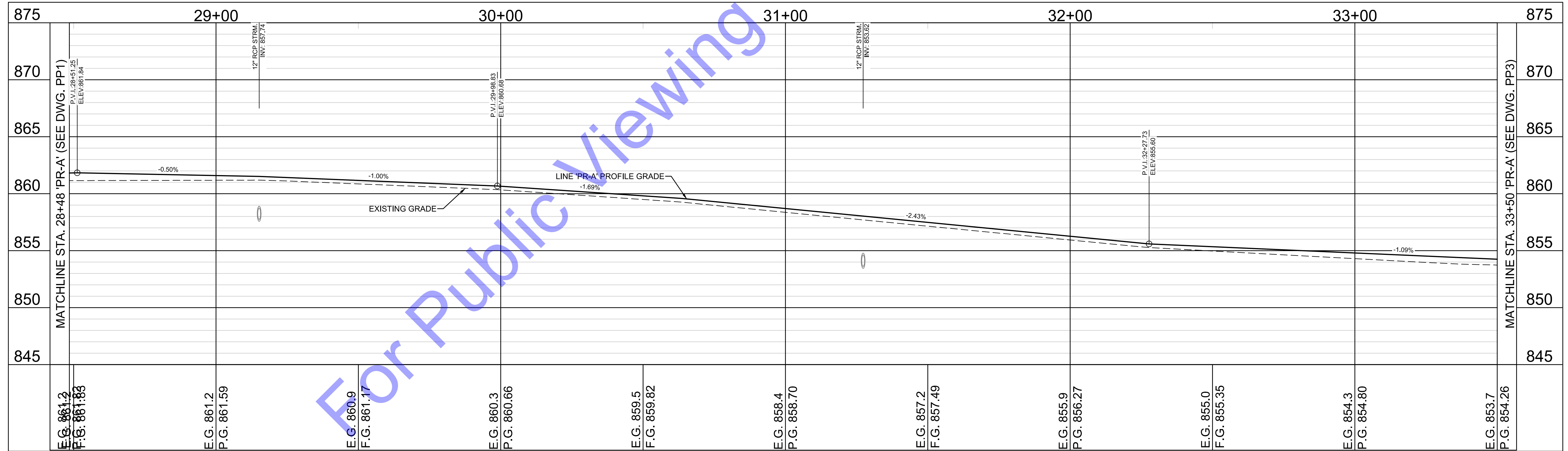
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  - (D) CONCRETE ROLLED CURB & GUTTER
  - (E) PROTECT
  - (F) MULCHED SEEDING, ON 4" TOPSOIL
  - (G) SAWCUT
  - (H) REMOVE
  - (I) TYPE C RAMP
  - (J) LINE, PAINT, SOLID YELLOW, 4"
  - (K) REMOVE AND REPLACE SIGN AS NEEDED DURING CONSTRUCTION
  - (L) RELOCATE UTILITY POLE (COORDINATE RELOCATION WITH UTILITY)

- GENERAL NOTES PAVEMENT MARKING**
- PAVEMENT MARKINGS WITHIN THE PUBLIC RIGHT - OF - WAY (SHALL BE THERMOPLASTIC.
  - PAVEMENT SHALL BE GROOVED PRIOR TO THE PLACEMENT OF LONGITUDINAL DURABLE PAVEMENT MARKINGS. (REFER TO SECTION 808 OF THE 2020 INDOT STANDARD SPECIFICATIONS)
  - PAVEMENT MARKING WITHIN PUBLIC RIGHT-OF-WAY TO BE INSTALLED PER INDOT SPECIFICATIONS. (REFER TO SECTION 808 OF THE 2020 INDOT STANDARD SPECIFICATIONS)
  - REMOVE EXISTING PAVEMENT MARKINGS AS NEEDED TO ACCOMMODATE PROPOSED PAVEMENT MARKINGS.



- CONTOUR LEGEND**
- (800) PROPOSED CONTOUR
  - (800) EXISTING CONTOUR
  - (---) FLOW LINE OF DITCH

ALL RTW AND TOPOGRAPHY DESCRIBED FROM LINE 'PR-A' UNLESS OTHERWISE NOTED



LINE 'PR-A' PROFILE



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OFFICE LOCATIONS IN:  
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 BOWLING GREEN, KY  
 SOUTH BEND, IN

REGISTERED PROFESSIONAL ENGINEER  
 No. 19700508  
 STATE OF INDIANA  
 Benjamin H. Adams  
 Signature Date 1-6-2025

**CITY OF BERNE, ADAMS COUNTY, INDIANA**

CR S 150 W IMPROVEMENTS - PHASE 2

PLAN AND PROFILE - LINE 'PR-A' STA. 29+00 - 34+00

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No.	Submittal / Revision	Date	By
	BID SET	6/13/24	NJS

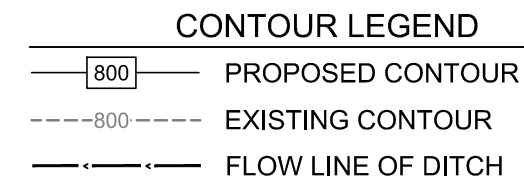
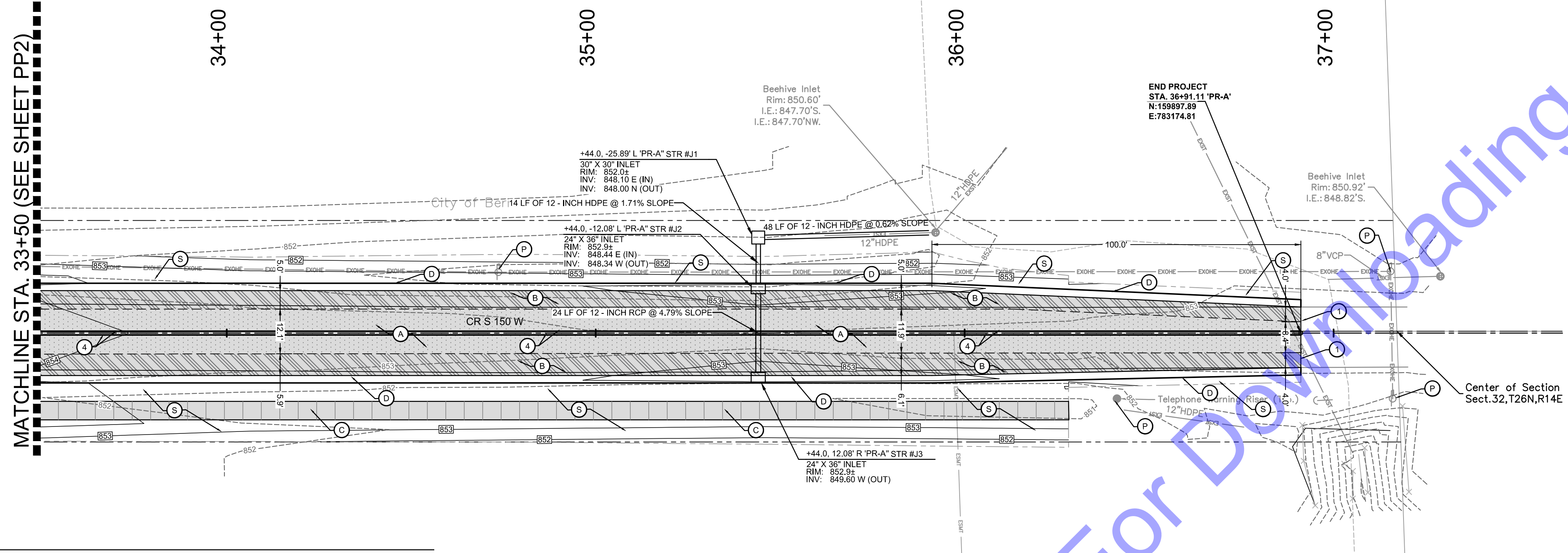
Designed By:	Drawn By:	Checked By:
NJS	EJK	BA

Issue Date:	Project No:	Scale:
12/18/2024	H20124	AS SHOWN

**PP2**

Drawing No:

Sheet: 5 OF 22

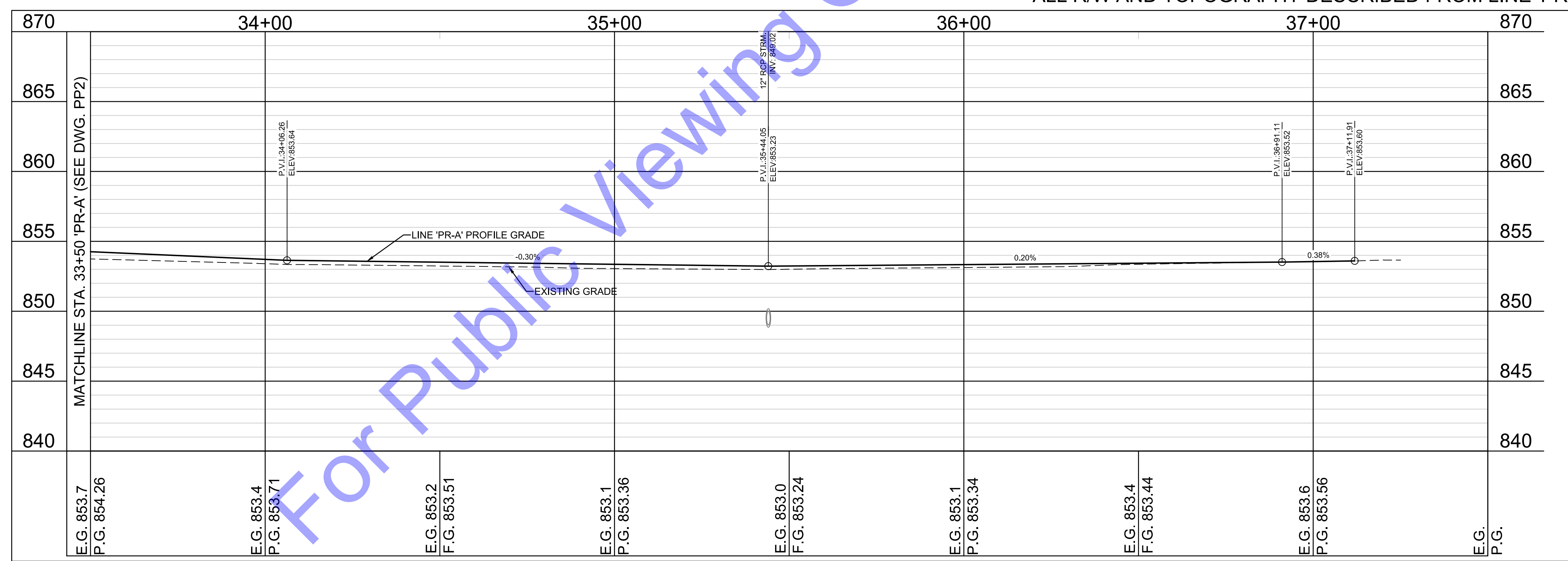


- LEGEND**
- A** 165 # SYD HMA, SURFACE, TYPE B, 9.5MM, ON 275 # SYD HMA, INTERMEDIATE, TYPE B, 12.5 MM, ON VARIABLE DEPTH COMPACTED AGGREGATE INDOT NO. 53 BASE, ON EXISTING AGGREGATE BASE
  - B** HMA FOR WIDENING TO BE: 165 # SYD HMA, SURFACE, TYPE B, 9.5 MM, ON 275 # SYD HMA, INTERMEDIATE, TYPE B, 12.5 MM, ON 8" COMPACTED AGGREGATE INDOT NO. 53, BASE ON TENSAR BX 1200 GEOGRID, ON 8" COMPACTED AGGREGATE INDOT NO. 2, SUBBASE
  - C** CONCRETE WALK  
4" PCCP ON 4" COMPACTED AGGREGATE INDOT NO. 53, BASE
  - D** CONCRETE ROLLED CURB & GUTTER
  - F** PROTECT
  - S** MULCHED SEEDING, ON 4" TOPSOIL
  - 1** SAWCUT
  - 2** REMOVE
  - 3** TYPE C RAMP
  - 4** LINE, PAINT, SOLID YELLOW, 4"
  - 5** REMOVE AND REPLACE SIGN AS NEEDED DURING CONSTRUCTION
  - 6** RELOCATE UTILITY POLE (COORDINATE RELOCATION WITH UTILITY)

- GENERAL NOTES PAVEMENT MARKING**
- PAVEMENT MARKINGS WITHIN THE PUBLIC RIGHT - OF - WAY (SHALL BE THERMOPLASTIC).
  - PAVEMENT SHALL BE GROOVED PRIOR TO THE PLACEMENT OF LONGITUDINAL DURABLE PAVEMENT MARKINGS. (REFER TO SECTION 808 OF THE 2020 INDOT STANDARD SPECIFICATIONS)
  - PAVEMENT MARKING WITHIN PUBLIC RIGHT-OF-WAY TO BE INSTALLED PER INDOT SPECIFICATIONS. (REFER TO SECTION 808 OF THE 2020 INDOT STANDARD SPECIFICATIONS)
  - REMOVE EXISTING PAVEMENT MARKINGS AS NEEDED TO ACCOMMODATE PROPOSED PAVEMENT MARKINGS.

LINE 'PR-A' STA. 34+00 - 27+25

ALL R/W AND TOPOGRAPHY DESCRIBED FROM LINE 'PR-A' UNLESS OTHERWISE NOTED



LINE 'PR-A' PROFILE

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<https://commonwealthengineers.com/>

**BERNARD H. ADAMS, P.E.**  
 No. 19700508  
 STATE OF INDIANA  
 PROFESSIONAL ENGINEER  
 Signature: *Bernard H. Adams* Date: 1-6-2025

**CITY OF BERNE, ADAMS COUNTY, INDIANA**  
 CR S 150 W IMPROVEMENTS - PHASE 2  
 PLAN AND PROFILE - LINE 'PR-A' STA. 34+00 - 37+25

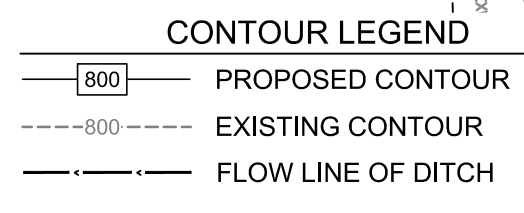
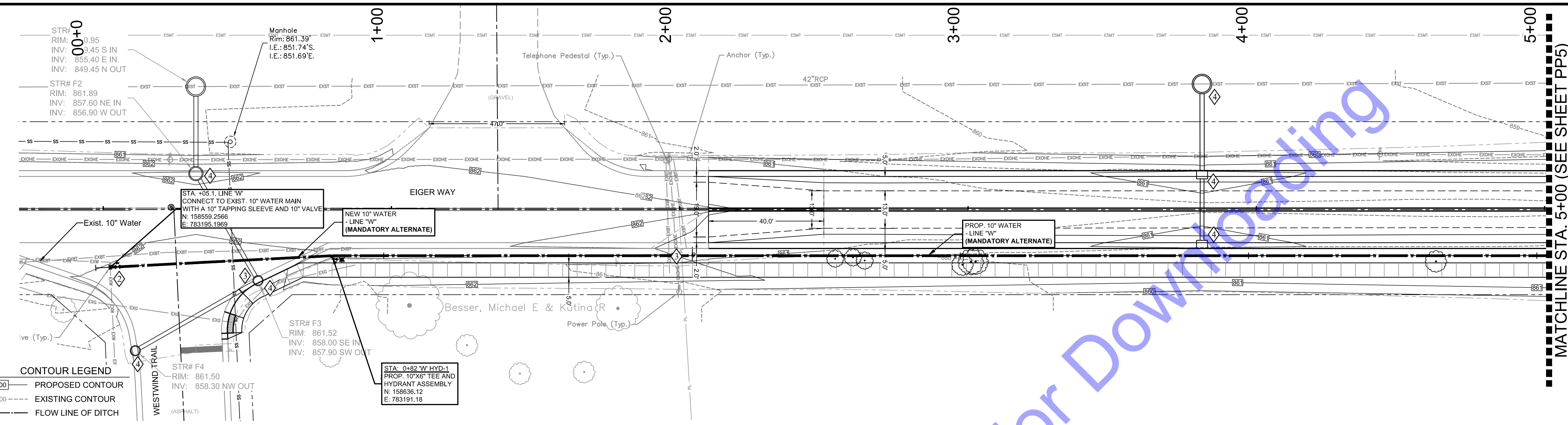
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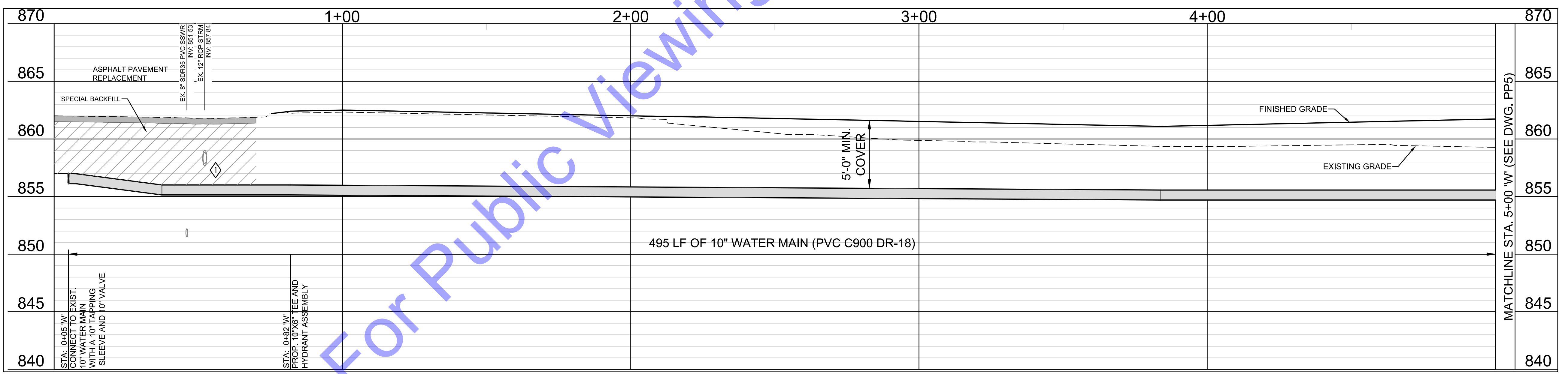
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- CODED NOTES**
- ◆ CONTRACTOR TO MAINTAIN 18" VERTICAL SEPARATION FROM STORM/SANITARY CROSSING
  - ◆ CONTRACTOR TO FIELD VERIFY LOCATION AND DEPTH OF EXISTING 10" WATER MAIN PRIOR TO CONSTRUCTION
  - ◆ CONTRACTOR TO VERIFY EX. UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION. IN THE EVENT OF UTILITY CONFLICTS, CONTRACTOR SHALL NOTIFY UTILITY TO RELOCATE TO AVOID CONFLICTS.
  - ◆ SEE EC DRAWINGS FOR EROSION CONTROL MEASURES.

**NOTE:**  
 THE EXISTING AND PROPOSED PROFILE GRADES ARE BASED ON THE ELEVATIONS AT THE CENTERLINE OF THE PROPOSED WATER MAIN.



LINE 'W' PROFILE

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 SOUTH BEND, IN

REGISTERED PROFESSIONAL ENGINEER  
 No. 19700508  
 STATE OF INDIANA  
 Benjamin H. Adams  
 Signature Date 1-6-2025

**CITY OF BERNE  
 ADAMS COUNTY,  
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CR S 150 W IMPROVEMENTS -  
 PHASE 2

PLAN AND PROFILE - LINE 'W' STA.  
 0+00 - 5+00

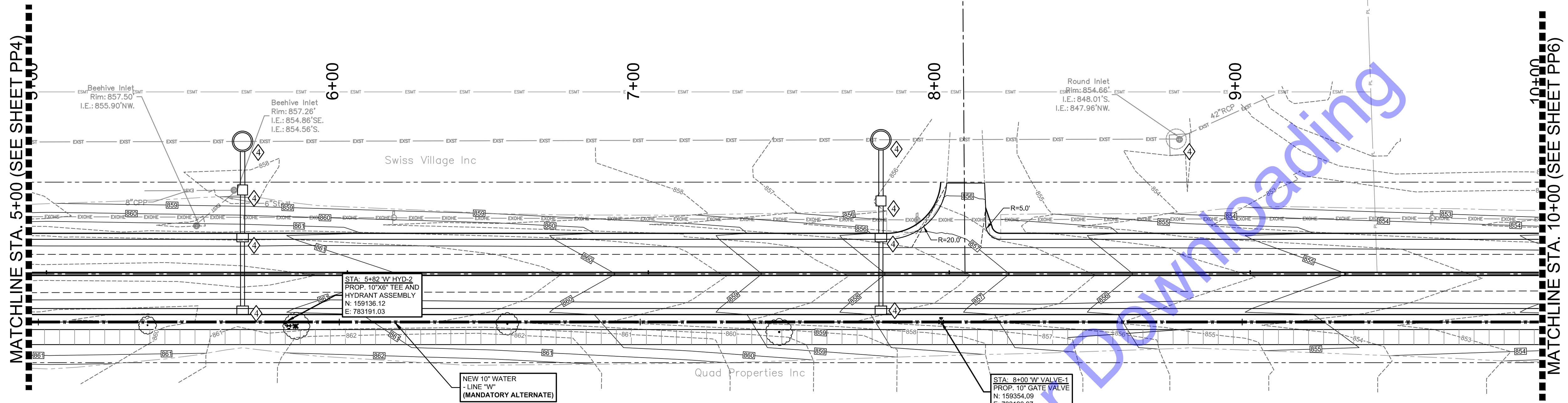
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**PP4**



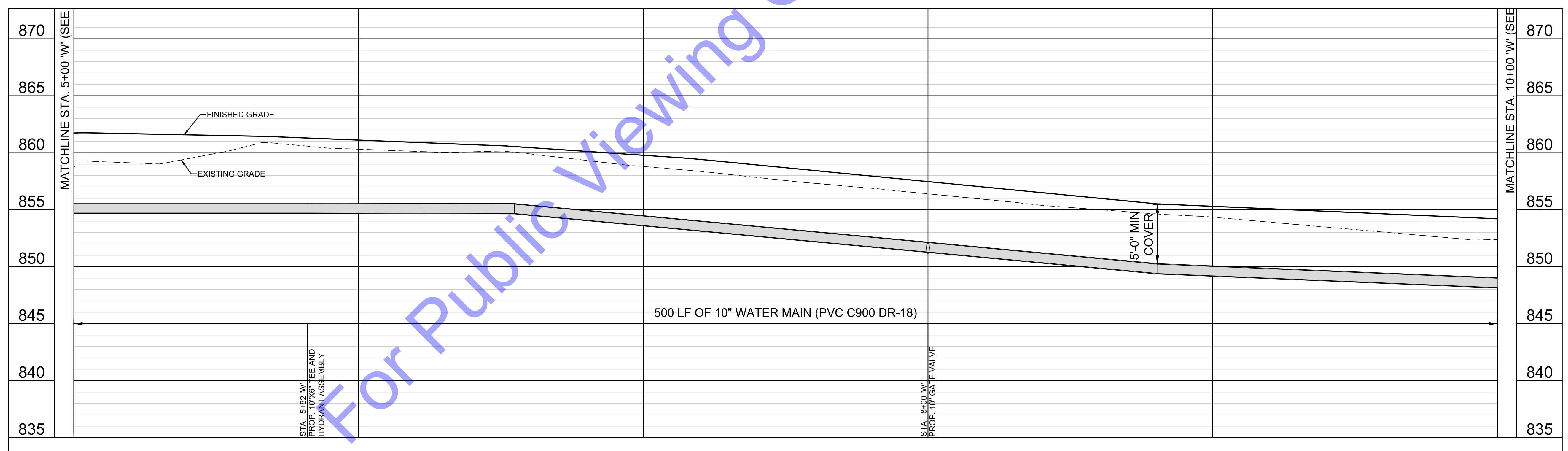
LINE 'W' STA. 5+00 - 10+00

- CODED NOTES**
- ◆ CONTRACTOR TO MAINTAIN 18" VERTICAL SEPARATION FROM STORM/SANITARY CROSSING
  - ◆ CONTRACTOR TO FIELD VERIFY LOCATION AND DEPTH OF EXISTING 10" WATER MAIN PRIOR TO CONSTRUCTION
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  - ◆ SEE EC DRAWINGS FOR EROSION CONTROL MEASURES.

**CONTOUR LEGEND**

	PROPOSED CONTOUR
	EXISTING CONTOUR
	FLOW LINE OF DITCH

**NOTE:**  
 THE EXISTING AND PROPOSED PROFILE GRADES ARE BASED ON THE ELEVATIONS AT THE CENTERLINE OF THE PROPOSED WATER MAIN.



LINE 'W' PROFILE

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 SOUTH BEND, IN

**BERNARD H. ADKINS**  
 No. 19700508  
 STATE OF INDIANA  
 REGISTERED PROFESSIONAL ENGINEER

*Bernard H. Adkins* 1-6-2025  
 Signature Date

**CITY OF BERNE  
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CR S 150 W IMPROVEMENTS -  
 PHASE 2

PLAN AND PROFILE - LINE 'W'  
 STA. 5+00 - 10+00

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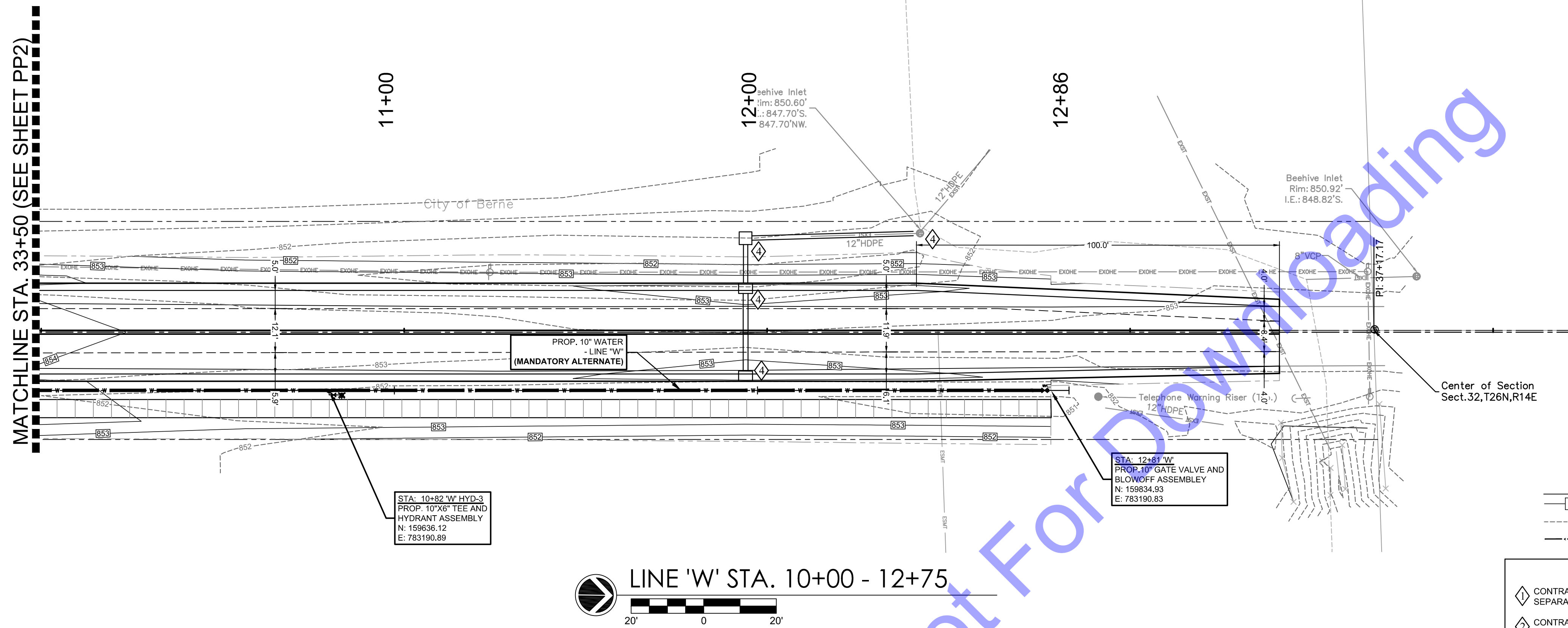
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1	BID SET	NJS	8/13/24

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**PP5**

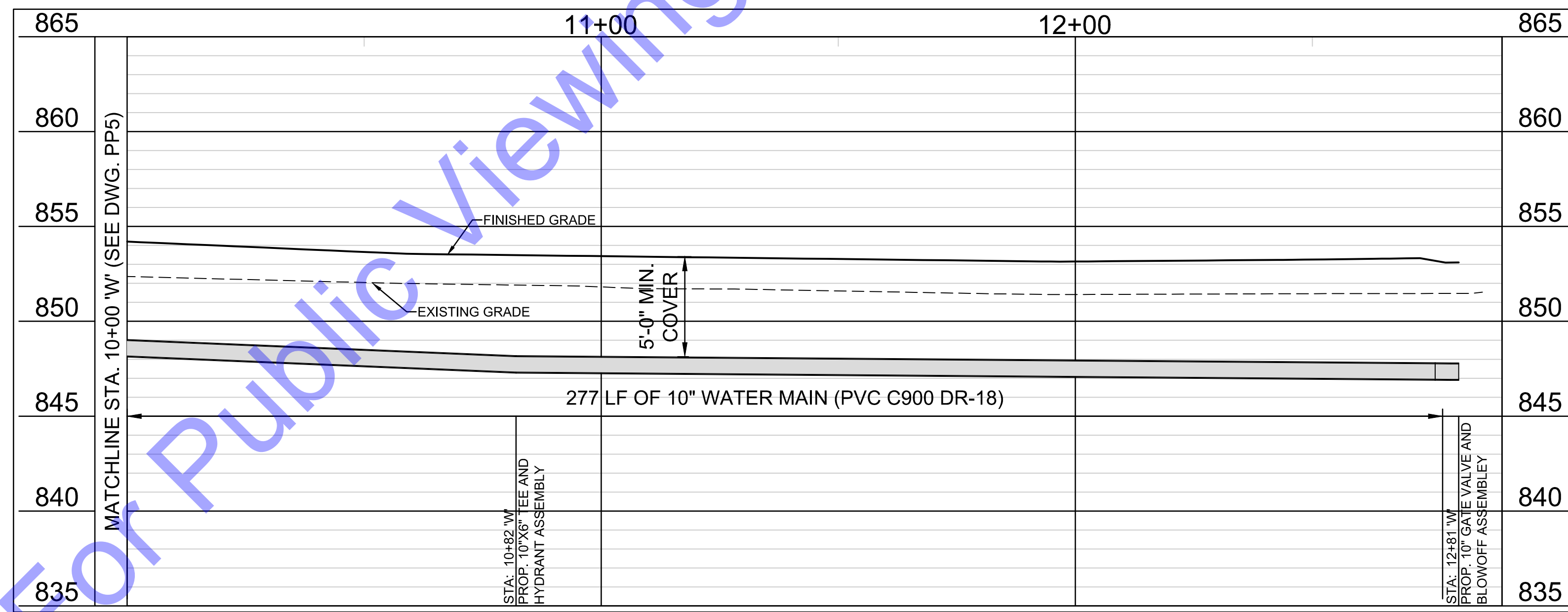




- CONTOUR LEGEND**
- PROPOSED CONTOUR
  - EXISTING CONTOUR
  - FLOW LINE OF DITCH

- CODED NOTES**
- ① CONTRACTOR TO MAINTAIN 18" VERTICAL SEPARATION FROM STORM/SANITARY CROSSING
  - ② CONTRACTOR TO FIELD VERIFY LOCATION AND DEPTH OF EXISTING 10" WATER MAIN PRIOR TO CONSTRUCTION
  - ③ CONTRACTOR TO VERIFY EX. UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION. IN THE EVENT OF UTILITY CONFLICTS, CONTRACTOR SHALL NOTIFY UTILITY TO RELOCATE TO AVOID CONFLICTS.
  - ④ SEE EC DRAWINGS FOR EROSION CONTROL MEASURES.

**NOTE:**  
 THE EXISTING AND PROPOSED PROFILE GRADES ARE BASED ON THE ELEVATIONS AT THE CENTERLINE OF THE PROPOSED WATER MAIN.



**LINE 'W' PROFILE**

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 SOUTH BEND, IN

**BERNARD H. ADAMS, P.E.**  
 REGISTERED PROFESSIONAL ENGINEER  
 No. 19700508  
 STATE OF INDIANA

*Bernard H. Adams* 1-6-2025  
 Signature Date

**CITY OF BERNE,  
 ADAMS COUNTY,  
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CR S 150 W IMPROVEMENTS -  
 PHASE 2

PLAN AND PROFILE - LINE 'W' STA.  
 10+00 - 12+75

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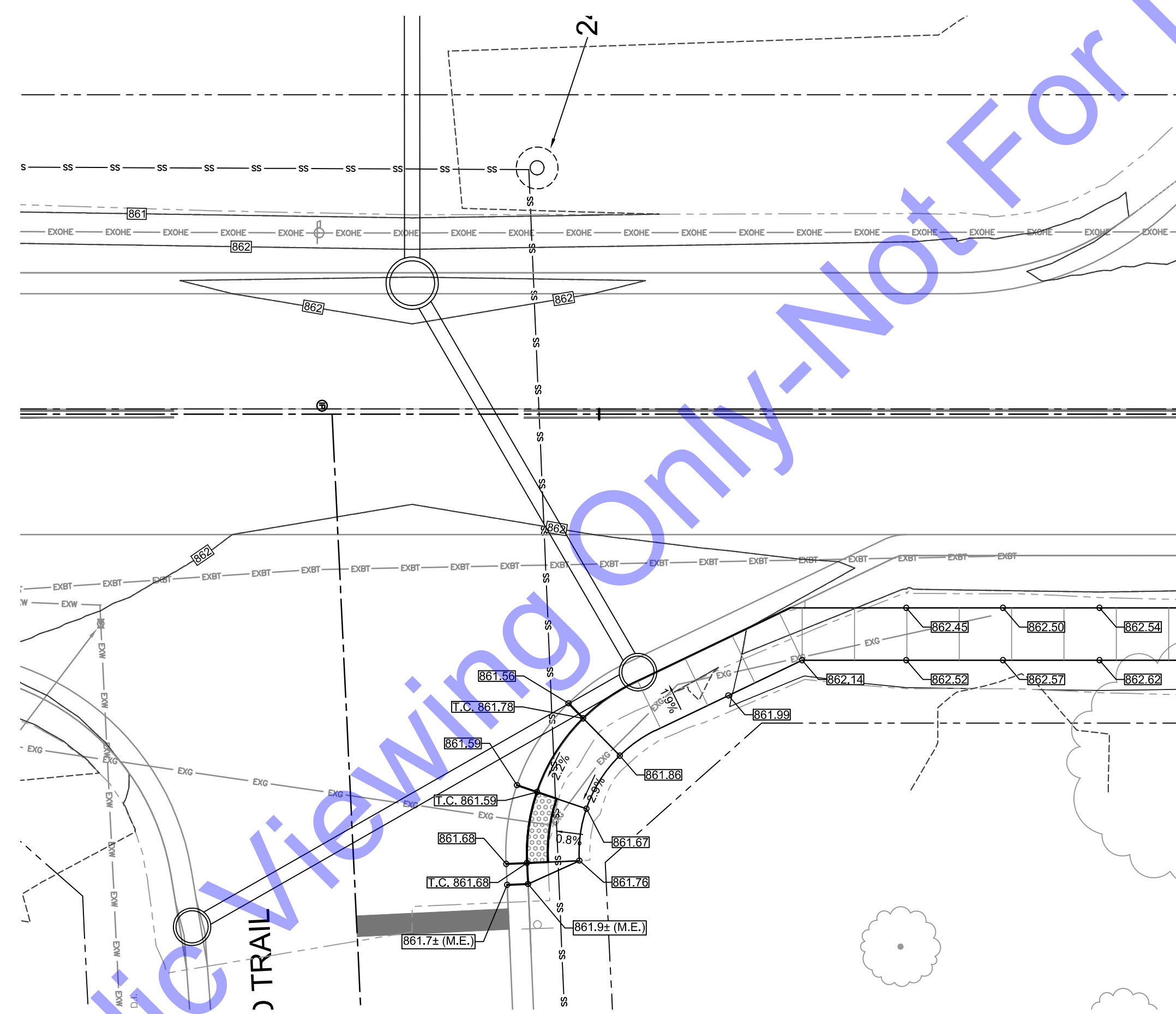
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Issue Date: 12/18/2024	Project No: H20124	Scale: AS SHOWN
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**PP6**

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WESTWIND TRAIL LINE 'PR-A' DRIVE LT. STA. 23+75

- CONTOUR LEGEND**
- PROPOSED CONTOUR
  - EXISTING CONTOUR
- SPOT ELEVATION LEGEND**
- MATCH EXISTING ELEVATION
  - SPOT ELEVATION
  - RIM ELEVATION
  - TOP OF CURB ELEVATION
  - GUTTER ELEVATION

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 SOUTH BEND, IN

Signature: *Benjamin H. Adams* Date: 1-6-2025

**CITY OF BERNE  
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CR S 150 W IMPROVEMENTS -  
 PHASE 2

CURB RAMP GRADING DETAILS

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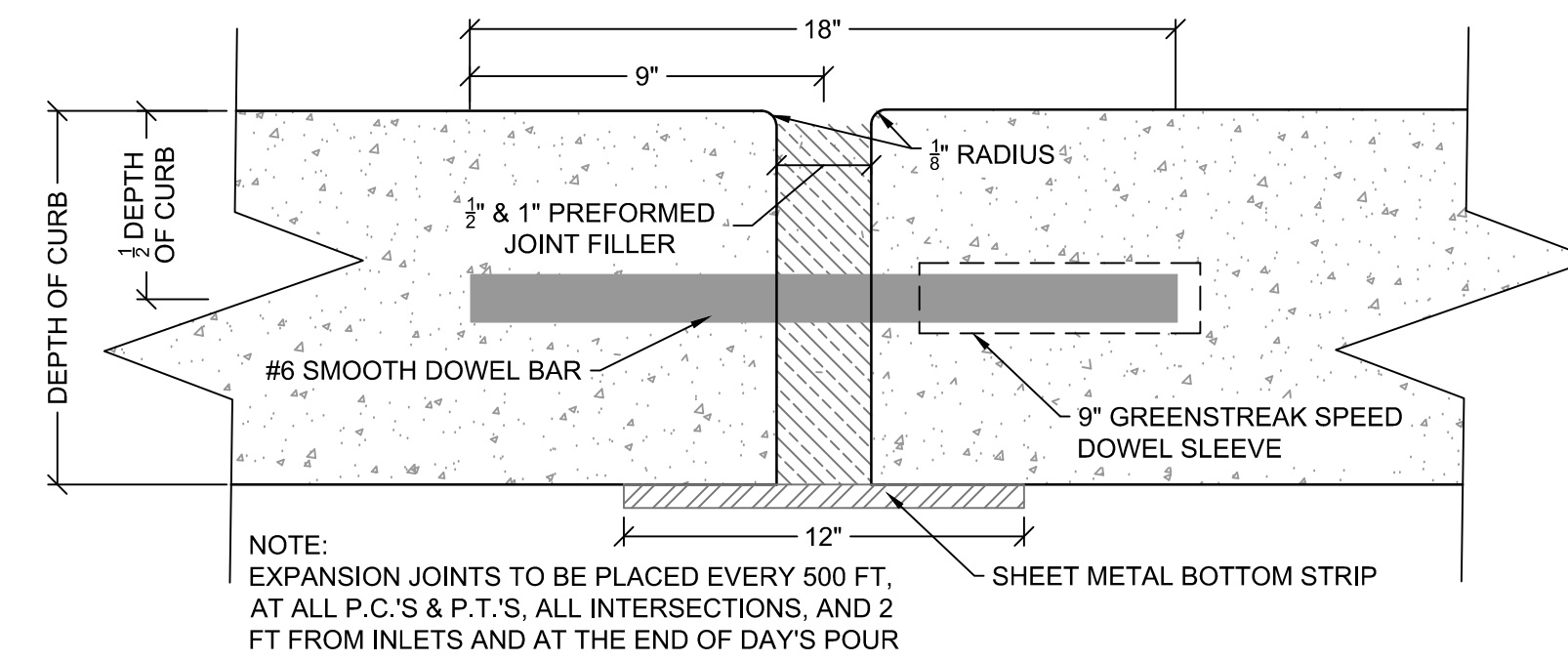
No.	Submittal / Revision	Date
	BID SET	8/13/24

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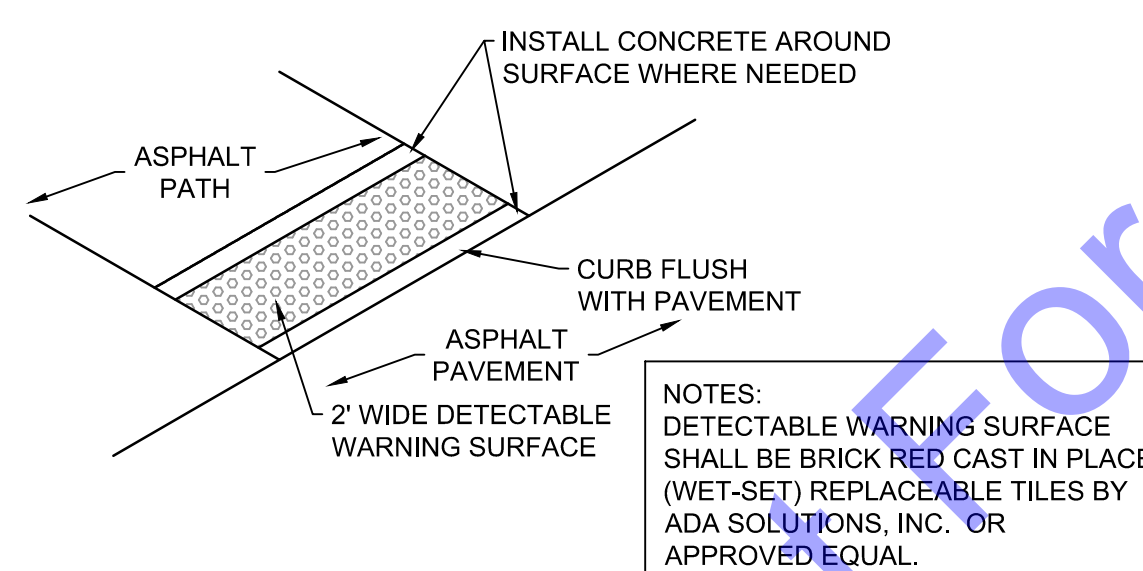
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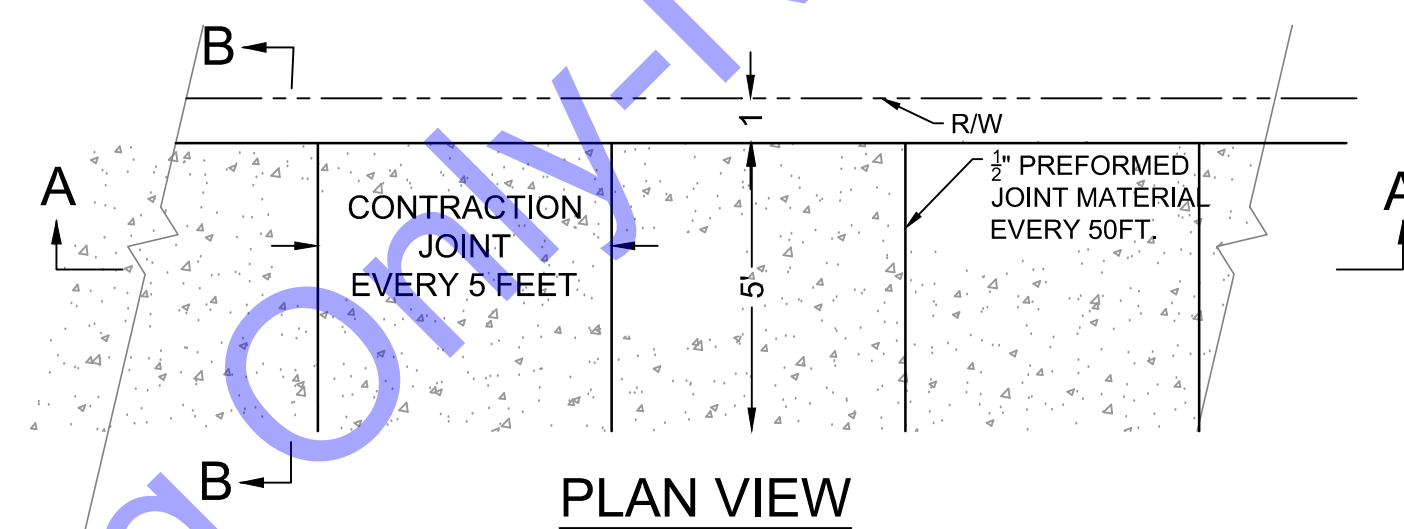
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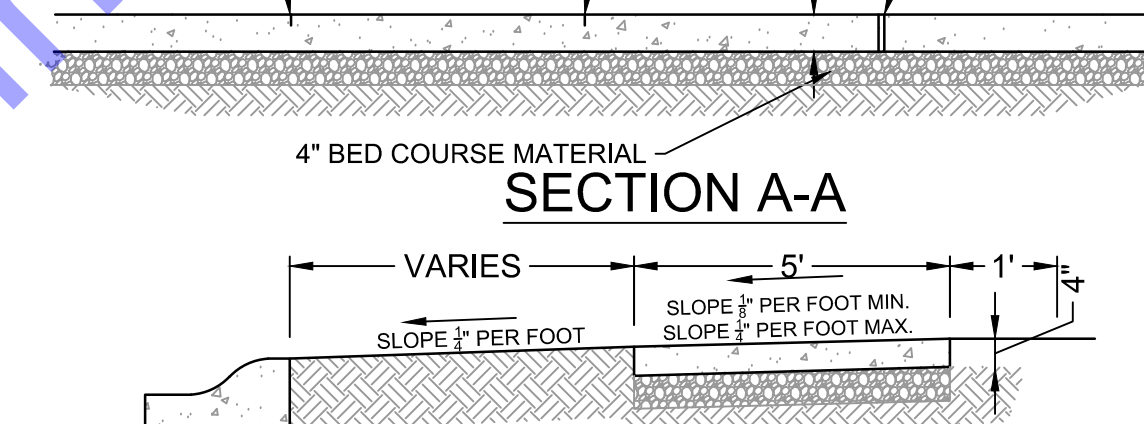
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NOT TO SCALE



**DETECTABLE WARNING SURFACE DETAIL**  
NOT TO SCALE



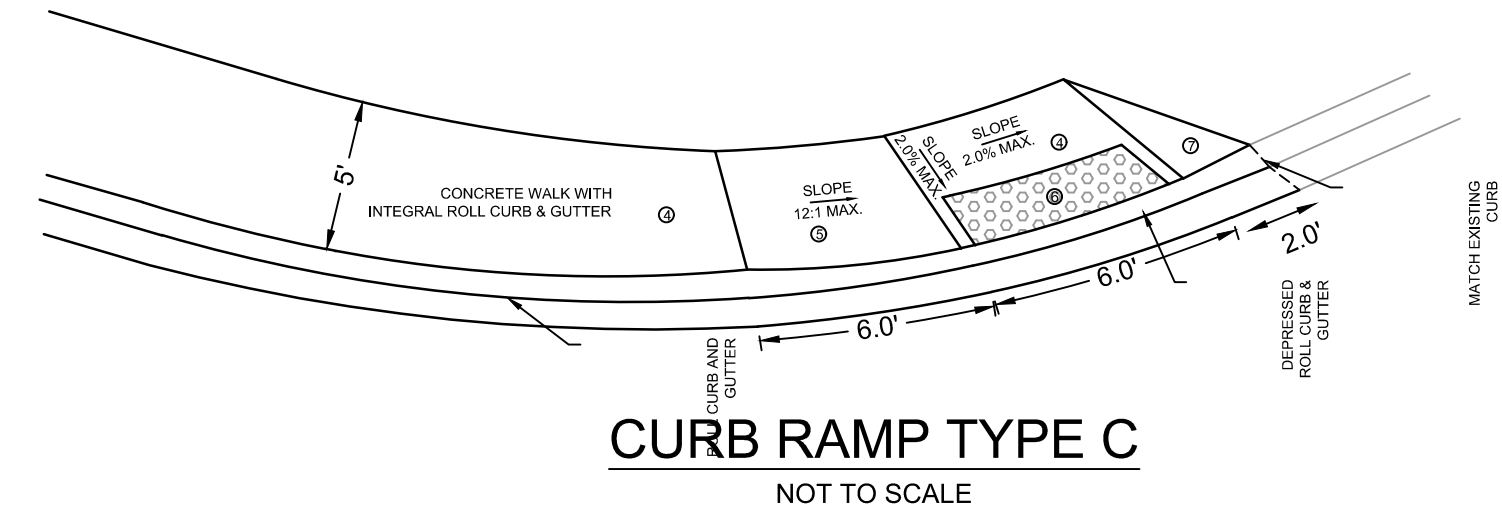
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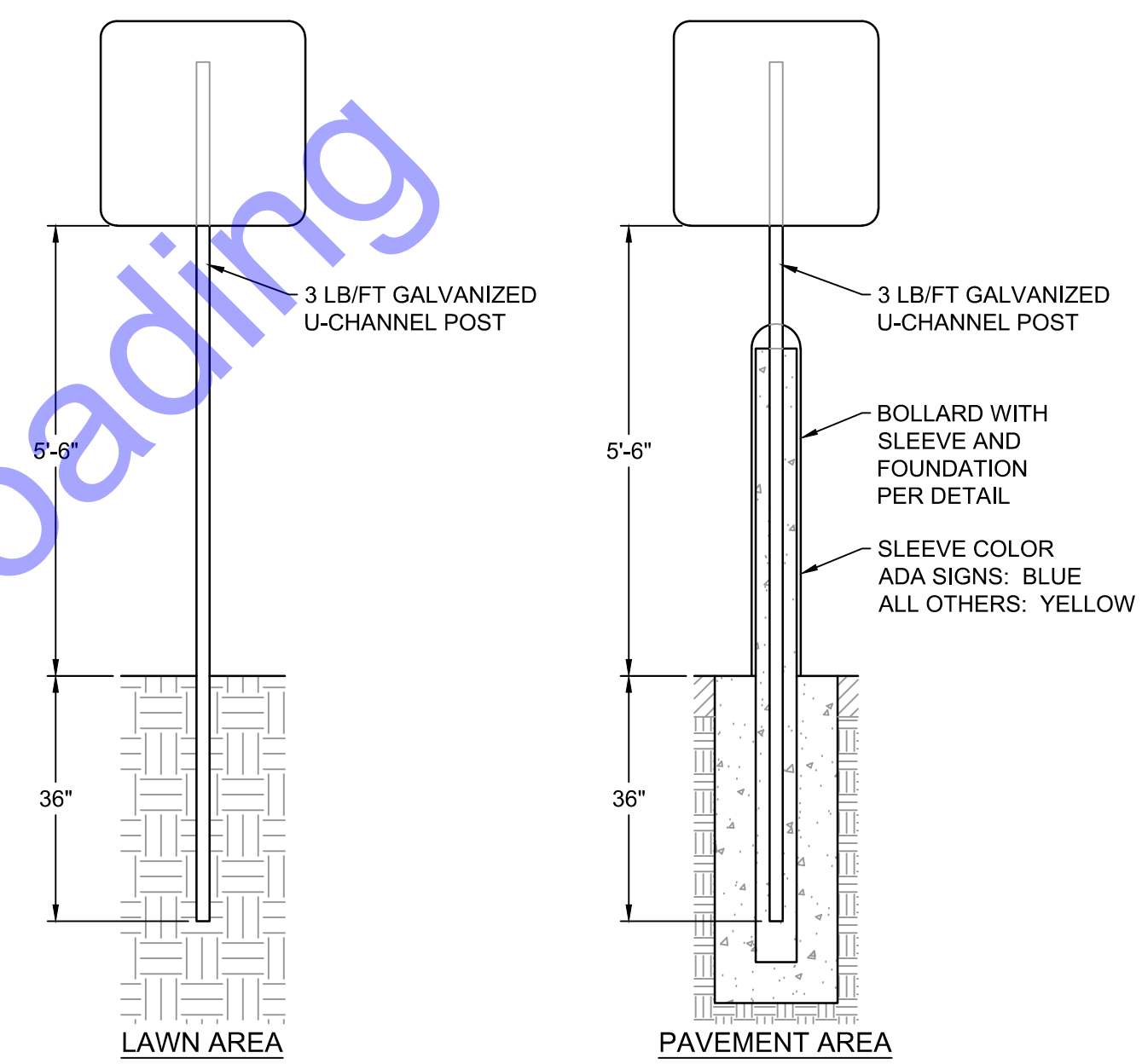
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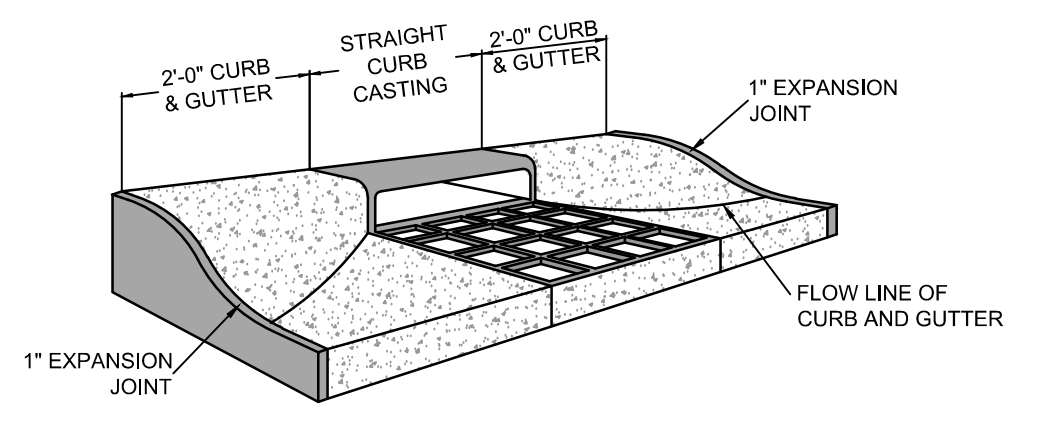
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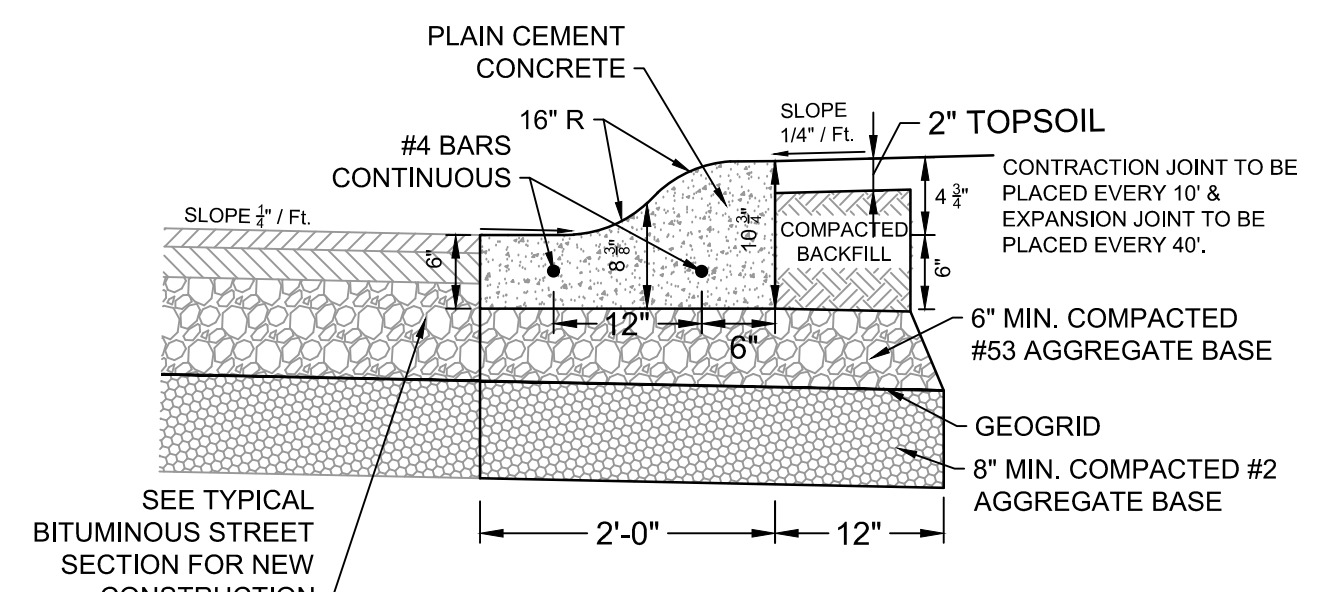
**CURB RAMP TYPE C**  
NOT TO SCALE



**SIGN POST DETAIL**  
NOT TO SCALE



**CURB INLET WARPING DETAIL**  
NOT TO SCALE



**ROLLED CURB & GUTTER DETAIL**  
NOT TO SCALE

STRUCTURE DATA TABLE																		
Structure #	Station	Left	Right	Cross	Size (IN)	Pipe Material	Structure Detail	Length	Cover	Upstream Elevation	Downstream Elevation	Rim Elevation	Structure Backfill (CYS)	Method	Revetment Rip-rap (Ton)	Metal End Section (Ea.)	Casting - Grate	
LINE 'PR-A'																		
G1	27+31	X				HDPE	72" DOGHOUSE MANHOLE					859.3						R-2502 - Type D
		X			15				31	3	855.99	853.45	2.2					R-3067 - Type R
G2	27+31	X				RCP	2' X 3' INLET					860.8						R-3067 - Type R
			X		12				24	2.8	857.60	856.09	7.7					R-3067 - Type R
G3	27+31		X			RCP	2' X 3' INLET					860.8						R-3067 - Type R
		X			15	HDPE	72" DOGHOUSE MANHOLE					858.4						R-2502 - Type D
		X			15	HDPE	30" x 30" INLET					854.33	853.65					R-4215-C Beehive
H2	29+15	X				HDPE	2' X 3' INLET					856.15	854.53	1.5				R-3067 - Type R
		X			15	HDPE	30" x 30" INLET					857.7						R-4215-C Beehive
H3	29+15	X				RCP	2' X 3' INLET					861.2						R-3067 - Type R
			X		12	RCP	2' X 3' INLET					858.00	857.50	5.1				R-3067 - Type R
H4	29+15		X			RCP	2' X 3' INLET					861.2						R-3067 - Type R
		X			15	HDPE	72" DOGHOUSE MANHOLE					856.2						R-2502 - Type D
		X			15	HDPE	30" x 30" INLET					851.78	851.48					R-4215-C Beehive
I1	31+27	X				HDPE	2' X 3' INLET					852.64	851.88	1.8				R-3067 - Type R
		X			12	RCP	2' X 3' INLET					854.50	852.74	9.5				R-3067 - Type R
I2	31+27	X				HDPE	2' X 3' INLET					857.7						R-3067 - Type R
		X			15	HDPE	30" x 30" INLET					852.64	851.88	1.8				R-4215-C Beehive
I3	31+27	X				RCP	2' X 3' INLET					857.7						R-3067 - Type R
			X		12	RCP	2' X 3' INLET					854.50	852.74	9.5				R-3067 - Type R
I4	31+27		X			RCP	2' X 3' INLET					857.7						R-3067 - Type R
EX. M.H.		X				HDPE	EX. MANHOLE					850.6						R-4215-C Beehive
		X			12	HDPE	30" x 30" INLET					848.00	847.70					R-4215-C Beehive
J1	35+44	X				HDPE	2' X 3' INLET					848.34	848.09	2.2				R-3067 - Type R
		X			12	HDPE	30" x 30" INLET					848.34	848.09	2.2				R-4215-C Beehive
J2	35+44	X				RCP	2' X 3' INLET					849.60	848.44	6.5				R-3067 - Type R
			X		12	RCP	2' X 3' INLET					849.60	848.44	6.5				R-3067 - Type R

\* REFER TO INDOT STANDARD DRAWING E-720-MHCA-01 FOR CASTING DIMENSIONS

**GENERAL NOTES CURB RAMP DETAILS**

- THESE DIMENSIONS ARE BASED ON A 6" CURB HEIGHT, AND SHALL BE PROPORTIONALLY ADJUSTED FOR OTHER CURB HEIGHTS.
- A 4'-0" MINIMUM WIDTH RAMP MAY BE USED WHEN EXISTING SPACE PROHIBITS THE CONSTRUCTION OF THE 5'-0" WIDE RAMP.
- THE BOTTOM EDGE OF THE CURB RAMP SHALL BE FLUSH WITH THE EDGE OF THE ADJACENT PAVEMENT AND GUTTER LINE.
- TURNING SPACE AT THE TOP OF CURB RAMPS SHALL HAVE MAXIMUM CROSS SLOPE OF 2.0% IN ANY DIRECTION. WHERE SITE INFEASIBILITY PRECLUDES A TURNING SPACE SLOPE OF 2.0% IN ANY DIRECTION, THE SLOPE PERPENDICULAR TO THE CURB FACE SHALL NOT EXCEED 2.0%. A TURNING SPACE (4.0 FT) MINIMUM BY (4.0 FT) MINIMUM SHALL BE PROVIDED AT THE TOP OF THE CURB RAMP AND SHALL BE PERMITTED TO OVERLAP OTHER TURNING SPACES AND CLEAR SPACES. WHERE THE TURNING SPACE IS CONSTRAINED AT THE BACK OF THE SIDEWALK, THE TURNING SPACE SHALL BE (4.0 FT) MINIMUM BY (5.0 FT) MINIMUM. THE (5.0 FT) DIMENSION SHALL BE PROVIDED IN THE DIRECTION OF THE RAMP RUN.
- THE RUNNING SLOPE OF THE CURB RAMP SHALL CUT THROUGH OR SHALL BE BUILT UP TO THE CURB AT RIGHT ANGLES OR SHALL MEET THE GUTTER GRADE BREAK AT RIGHT ANGLES WHERE THE CURB IS CURVED. THE RUNNING SLOPE OF THE CURB SHALL BE 5.0% MINIMUM AND 8.3% MAXIMUM BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED (15.0 FT). THE RUNNING SLOPE OF THE TURNING SPACE SHALL BE 2.0% MAXIMUM.
- DETECTABLE WARNING SURFACE SHALL BE WET SET INSERT, STAMPING SHALL NOT BE PERMITTED, AND SHALL BE RED BRICK IN COLOR.
- WHEN NO OBSTRUCTION IS PRESENT CURB TAPER SHALL BE AT 12:1 SLOPE AND WINGS SHALL BE SOD.

NOTES:  
DETECTABLE WARNING SURFACE SHALL BE BRICK RED CAST IN PLACE (WET-SET) REPLACEABLE TILES BY ADA SOLUTIONS, INC. OR APPROVED EQUAL.

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SOUTH BEND, IN

**BERNARD H. ADAMS, P.E.**  
REGISTERED PROFESSIONAL ENGINEER  
No. 19700508  
STATE OF INDIANA  
Signature: *Bernard H. Adams* 1-6-2025  
Date

**CITY OF BERNE, ADAMS COUNTY, INDIANA**  
CR S 150 W IMPROVEMENTS - PHASE 2  
MISCELLANEOUS DETAILS

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Submitted / Revision	BID SET		
No.			

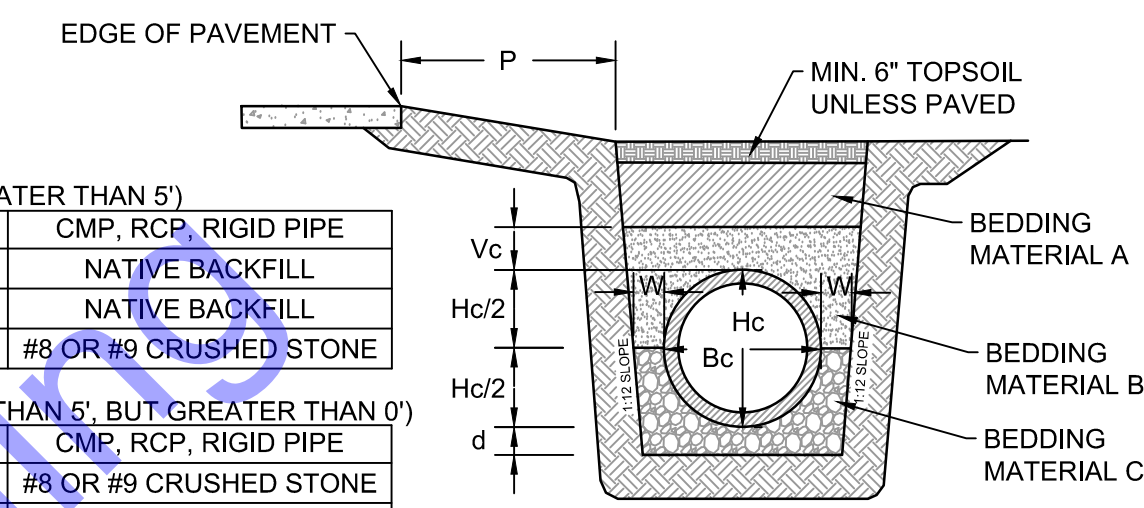
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NJS	EJK	BA
Issue Date:	Project No:	Scale:
12/18/2024	H20124	AS SHOWN

**MD1**

Drawing No:

PAVEMENT QUANTITIES AND APPROACH TABLE

LOCATION	DESCRIPTION	WIDTH	LENGTH	RADII	GRADE 1	GRADE 2	GRADE 3	Roll Curb		HMA for Mill & Overlay Type 'B'		HMA For Widening Type 'B'		Concrete Sidewalk		Subgrade Stabilization		Remarks	
								6" Compacted Aggregate No. 53 Base	Asphalt Milling	Surface 165#/SYD	Inter. 275#/SYD	Surface 165#/SYD	Inter. 275#/SYD	8" Compacted Aggregate No. 53 Base	PCCP (4")	4" Compacted Aggregate No. 53 Base	Tensor BX 1200 Geogrid		8" Compacted Aggregate No. 2 Subbase
		Feet	Feet	Feet	%	%	%	SYS	SYS	Ton	Ton	Ton	Ton	SYS	SYS	SYS	SYS		
LINE 'PR-A'								756	1,565	130	216	110	184	1,332	685	685	1,332	1,332	Mainline
	2' Roll Curb		2266														756	756	
	5 % Contingency																105	105	
	Project Totals							756	1,565	130	216	110	184	1,332	685	685	2,193	2,193	



**BEDDING MATERIAL DESIGNATION (P GREATER THAN 5')**

MATERIAL A	PVC, HDPE, PLASTIC PIPE	CMP, RCP, RIGID PIPE
MATERIAL B	NATIVE BACKFILL	NATIVE BACKFILL
MATERIAL C	#8 OR #9 CRUSHED STONE	#8 OR #9 CRUSHED STONE

**BEDDING MATERIAL DESIGNATION (LESS THAN 5', BUT GREATER THAN 0')**

MATERIAL A	PVC, HDPE, PLASTIC PIPE	CMP, RCP, RIGID PIPE
MATERIAL B	#8 OR #9 CRUSHED STONE	#8 OR #9 CRUSHED STONE
MATERIAL C	#8 OR #9 CRUSHED STONE	#8 OR #9 CRUSHED STONE

**BEDDING MATERIAL DESIGNATION (PIPE UNDER PAVEMENT OR DRIVEWAY)**

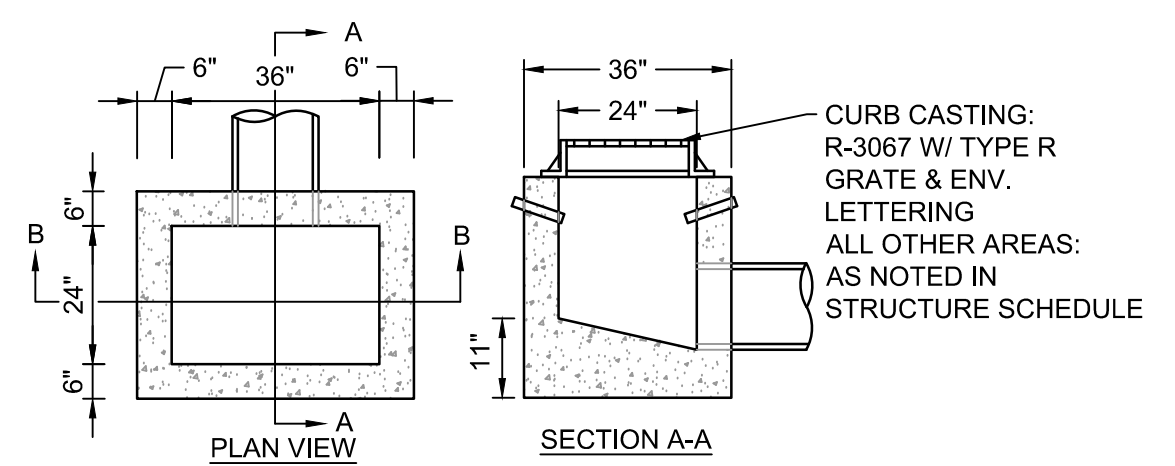
MATERIAL A	PVC, HDPE, PLASTIC PIPE	CMP, RCP, RIGID PIPE
MATERIAL B	PIPE NOT ALLOWED	#8 OR #9 CRUSHED STONE
MATERIAL C	PIPE NOT ALLOWED	#8 OR #9 CRUSHED STONE

LEGEND  
 P = DISTANCE FROM EDGE OF PAVEMENT  
 Hc = OUTSIDE DIAMETER OR RISE  
 Bc = OUTSIDE DIAMETER OR SPAN  
 d = DEPTH OF BEDDING MATERIAL BELOW PIPE  
 W = 8" MIN. FOR FILL HEIGHT UP TO 16"  
 = 12" MIN FOR FILL HEIGHT OF 16" OR MORE  
 Vc = 12" FOR Bc UP TO 18"  
 = 18" FOR Bc GREATER THAN 18"  
 W = 0.3 Bc OR 9", WHICHEVER IS GREATER

NOTES:  
 1. INDOT TYPE 1 PIPE REQUIRED FOR STORM SEWERS/CULVERTS UNDER PAVEMENT  
 2. INDOT TYPE 2 PIPE REQUIRED FOR STORM SEWERS/CULVERTS OUTSIDE OF PAVEMENT  
 3. ALL BEDDING SHALL BE INSTALLED IN 6" TO 12" BALANCED LIFTS  
 4. FOR BACKFILL PURPOSES, PAVED SHOULDERS, CURBS, GUTTERS, AND SIDEWALKS AREA CONSIDERED PAVEMENT  
 5. FLOWABLE BACKFILL SHALL BE ENCASED BY A MINIMUM OF 2' OF COMPACTED EARTH BACKFILL  
 6. PLASTIC PIPES FABRICATED ON HYDROSTATIC DESIGN BASIS RATED RESINS CONSIDERED RIGID FOR BACKFILL PURPOSES  
 7. MANUFACTURER'S SPECIFICATIONS MAY BE ACCEPTED FOR USE WITH PVC, HDPE, AND PLASTIC PIPES AS AN ALTERNATIVE TO THE MATERIALS NOTED HERE (WITH PRIOR APPROVAL OF THE COUNTY SURVEYOR).

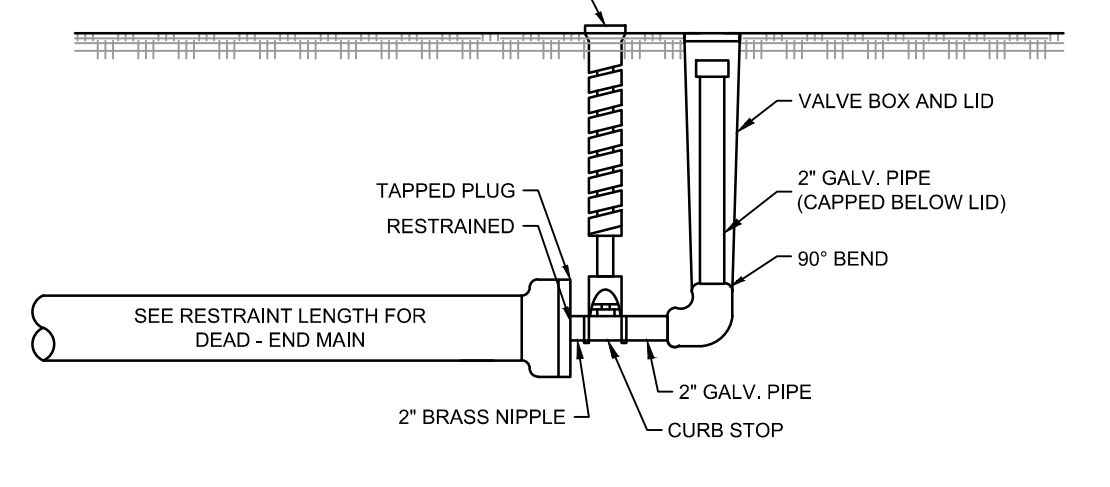
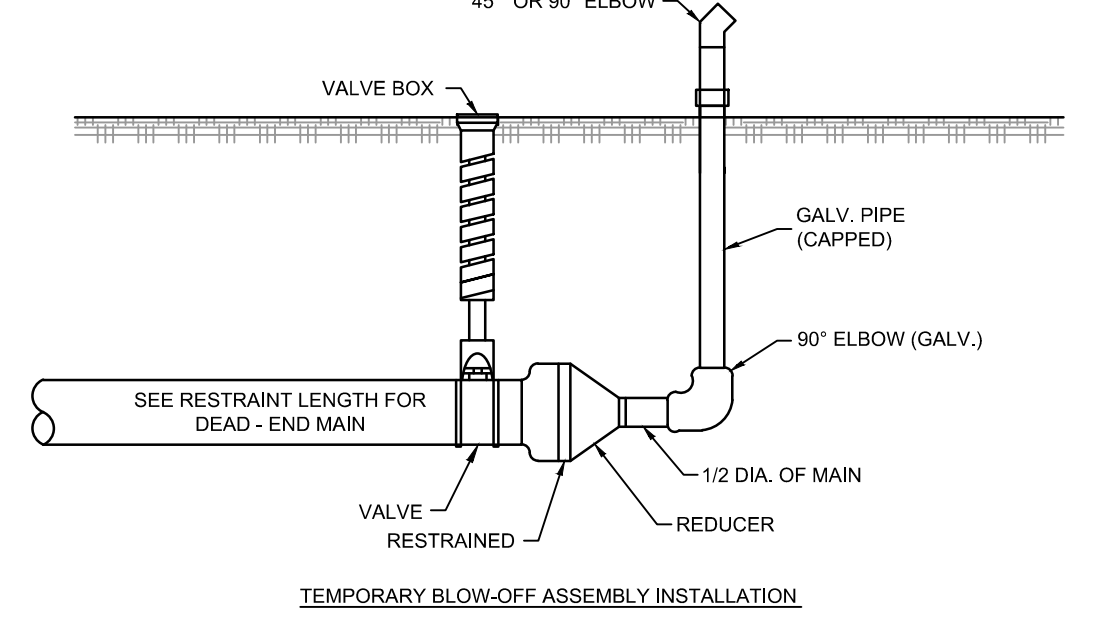
PIPE BEDDING AND BACKFILL FOR STORM SEWERS

NOT TO SCALE



2' X 3' INLET

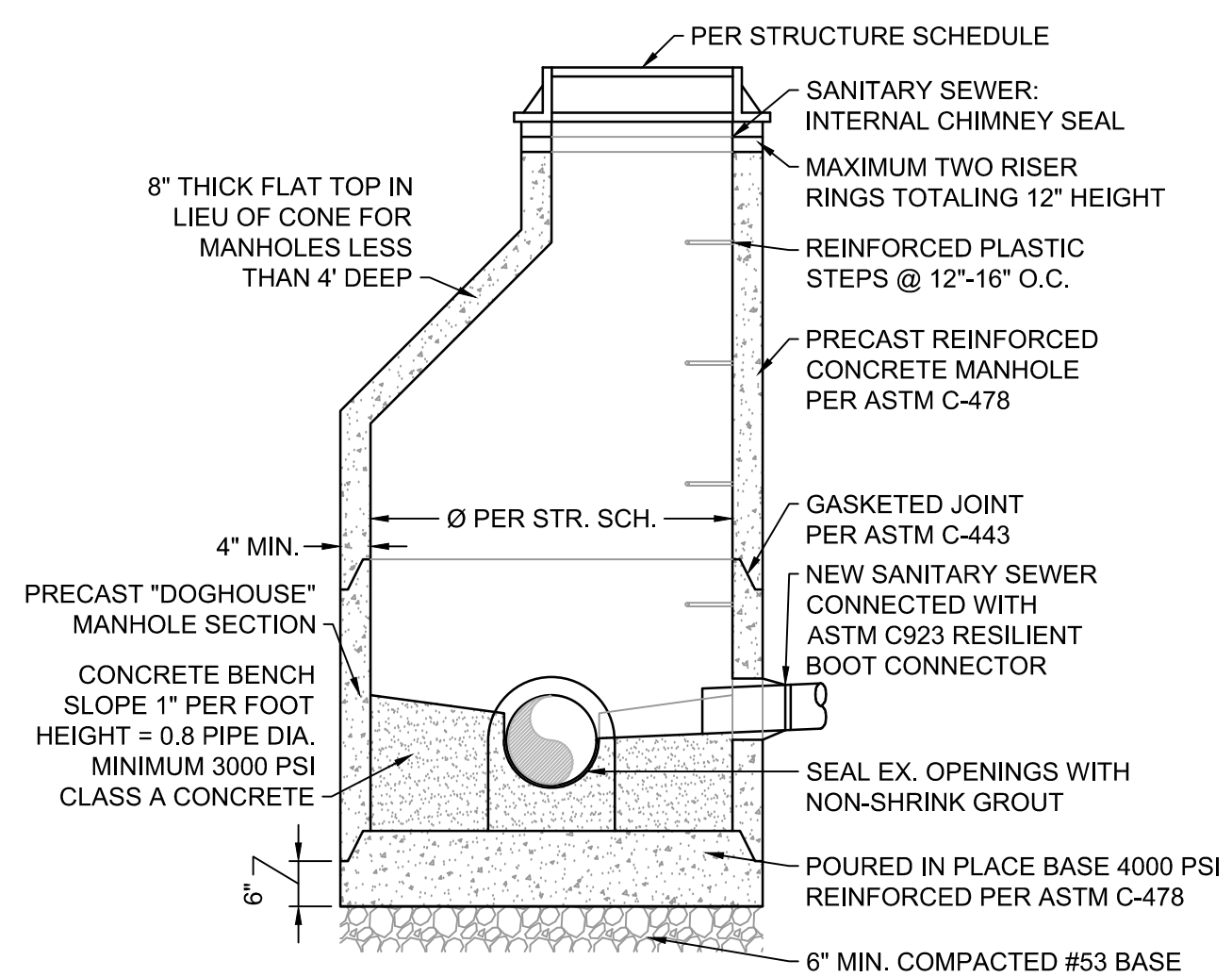
NOT TO SCALE



NOTES:  
 1. ALL MATERIALS FURNISHED BY CONTRACTOR AND INSTALLED BY CONTRACTOR, UNLESS OTHERWISE SPECIFIED.

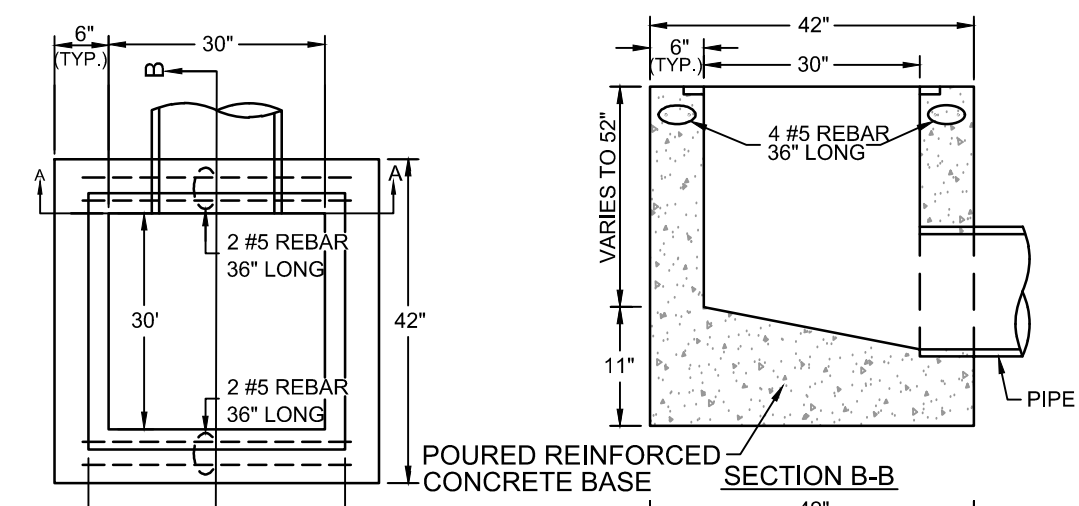
BLOW-OFF ASSEMBLY

NOT TO SCALE



DOGHOUSE MANHOLE

NOT TO SCALE



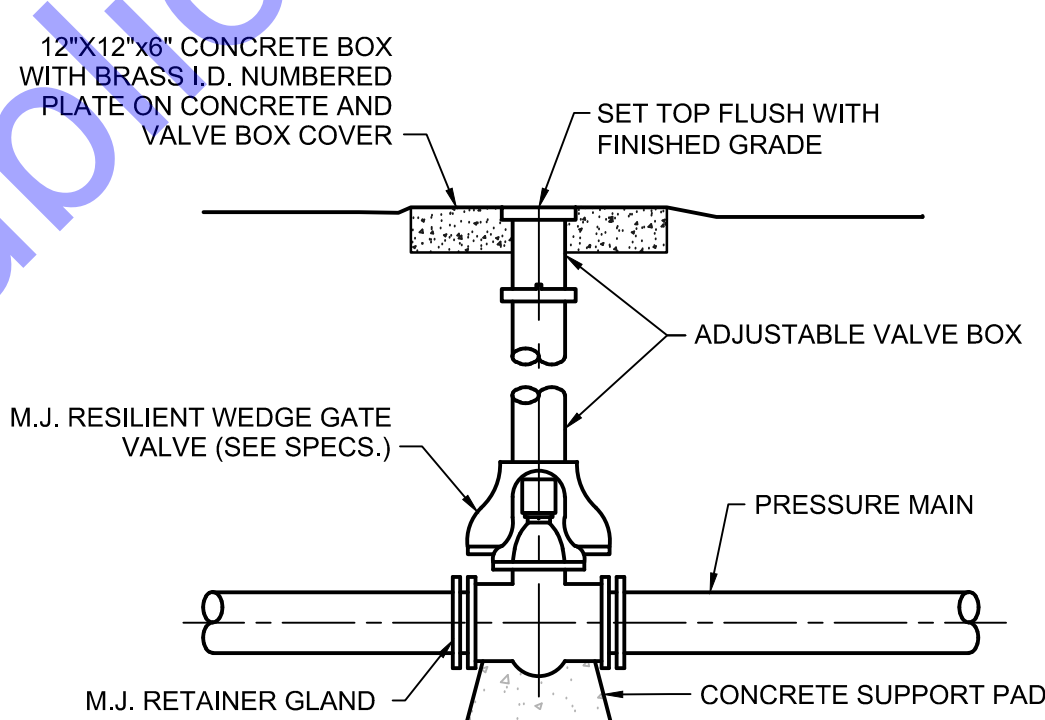
INLETS WITH INCOMING PIPES SHALL HAVE BENCHES UP TO THE CROWN OF THE PIPE (SEE POURED CHANNEL SHAPES I DETAIL AND POURED CHANNEL SHAPES II DETAIL FOR CHANNEL REQUIREMENTS)

NOTE:  
 REINFORCING STEEL PER ASTM C-890  
 CASTING:  
 30" X 30" BEEHIVE GRATE

PIPE CONNECTION NOTES:  
 1. INLET AND OUTLET PIPES SHALL EXTEND THROUGH THE BOX INLET WALLS A SUFFICIENT DISTANCE TO ALLOW FOR PLACEMENT OF GROUTING MATERIAL AROUND THE PIPE DIAMETER BOTH INSIDE AND OUTSIDE OF THE STRUCTURE WALL, PREVENTING LEAKAGE AROUND THE PIPES OUTER SURFACE. INLET AND OUTLET PIPES SHALL NOT EXTEND THROUGH THE INLET OR MANHOLE WALL TO SUCH A DEGREE THAT FLOW IS OBSTRUCTED.  
 2. HOLES FOR CONNECTIONS OF STORM SEWER PIPES SHALL BE PREFORMED BY THE MANUFACTURER, OR FIELD CUT OR DRILLED. AT NO TIMES SHALL BE PREFORMED BY THE MANUFACTURER, OR FIELD CUT OR DRILLED. AT NO TIME SHALL THE PIPE HOLE EXCEED THE OUTER PIPE DIAMETERS PLUS FOUR-INCHES (O.D. +4"), TO ENSURE A PROPER CONNECTION IS ACHIEVED. SHOULD THE CONTRACTOR ELECT TO USE BOX INLET STRUCTURES WITH PREFORMED THIN WALL "KNOCK-OUTS", THE BALANCE OF THE "KNOCK OUT" AREA NOT OCCUPIED BY THE PIPE CONNECTION AND ALL REMAINING UNUSED "KNOCK-OUTS" SHALL BE FILLED WITH 4000 PSI CLASS A CONCRETE TO A FINISHED WALL THICKNESS NOT LESS THAN REQUIRED BY THESE STANDARDS.  
 3. THE ANNULAR SPACE BETWEEN THE PIPE AND THE BOX INLET WALL SHALL BE FILLED INSIDE AND OUTSIDE WITH A GROUT MIXTURE COMPOSED OF 2 PARTS OF NO. 23 FINE AGGREGATE AND ON PART PORTLAND CEMENT. AS AN ALTERNATIVE, PIPE CONNECTIONS TO BOX INLET UTILIZING AN APPROVED RUBBER GASKET MANUFACTURED AND INSTALLED IN ACCORDANCE WITH ASTM C-923 WILL BE ACCEPTED.

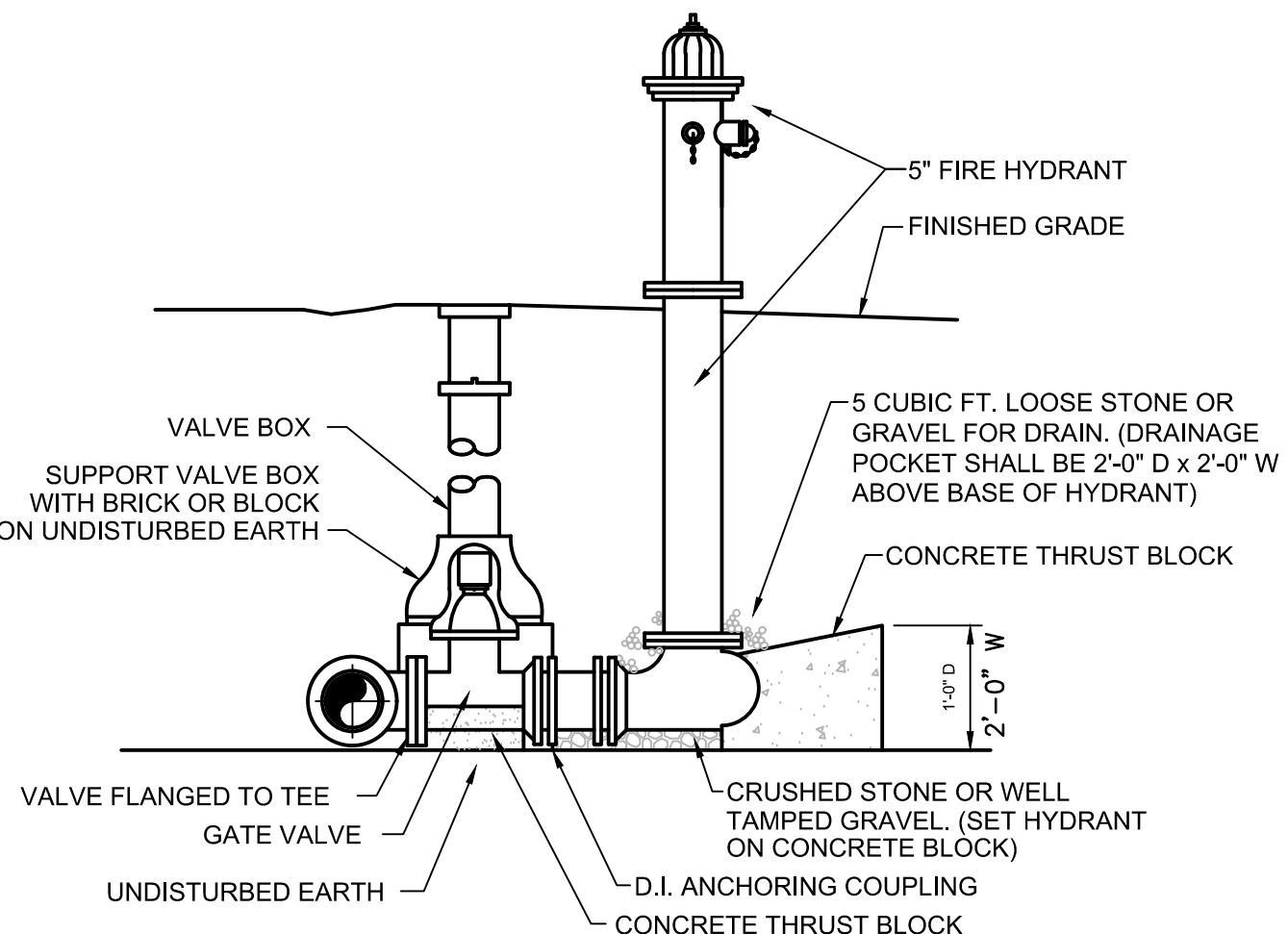
30" X 30" INLET

NOT TO SCALE



GATE VALVE AND BOX DETAIL

NO SCALE

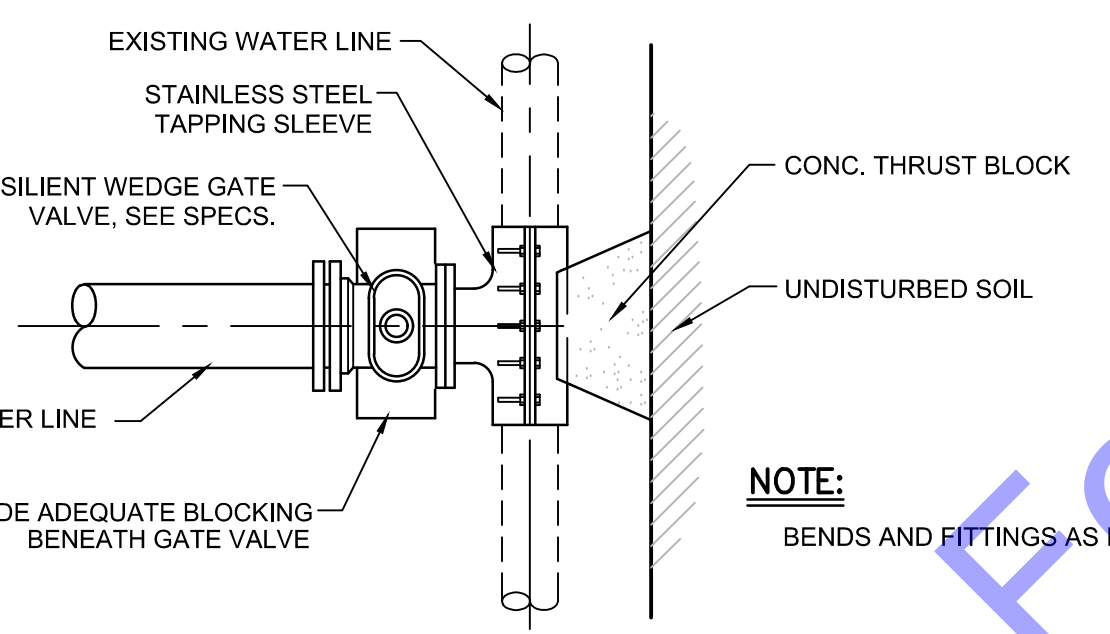


FIRE HYDRANT DETAIL

NO SCALE

WET CONNECTION TO EXISTING WATER MAIN

NO SCALE



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REGISTERED PROFESSIONAL ENGINEER  
 No. 19700508  
 STATE OF INDIANA  
 Benjamin H. Adams  
 Signature Date 1-6-2025

CITY OF BERNE  
 ADAMS COUNTY,  
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 CR S 150 W IMPROVEMENTS -  
 PHASE 2  
 MISCELLANEOUS TABLES AND  
 DETAILS

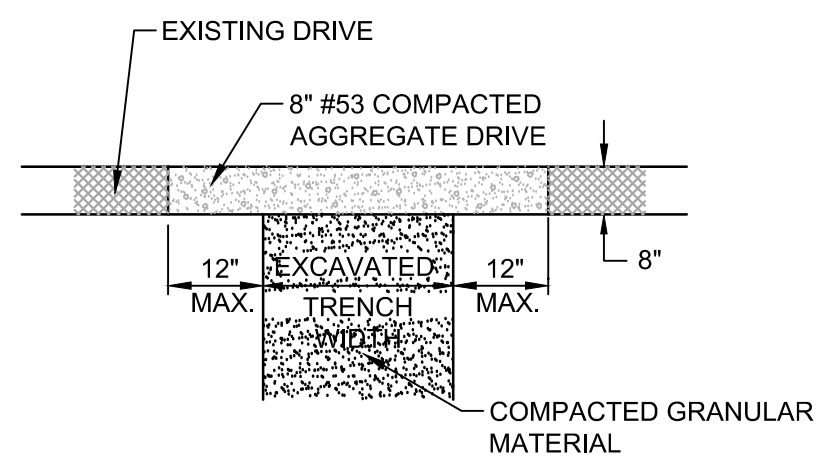
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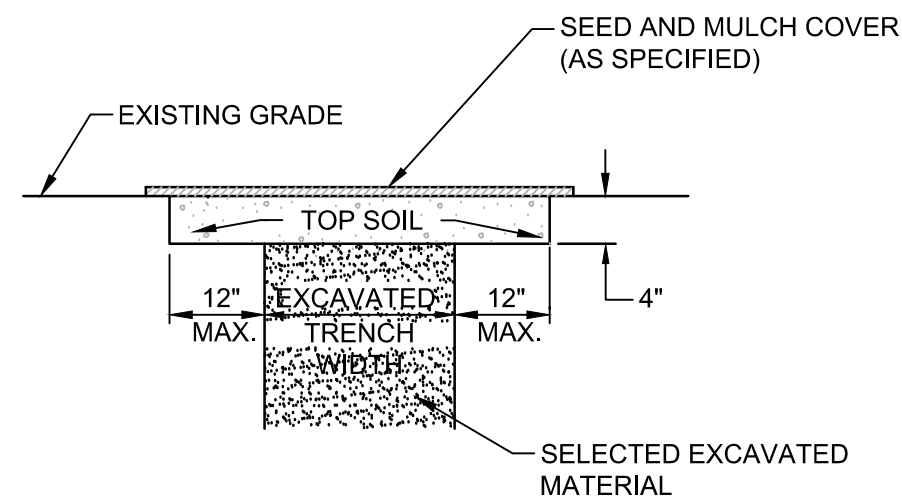
Designed By:	Drawn By:	Checked By:
NJS	EJK	BA
Issue Date:	Project No:	Scale:
12/18/2024	H20124	AS SHOWN

**MD2**

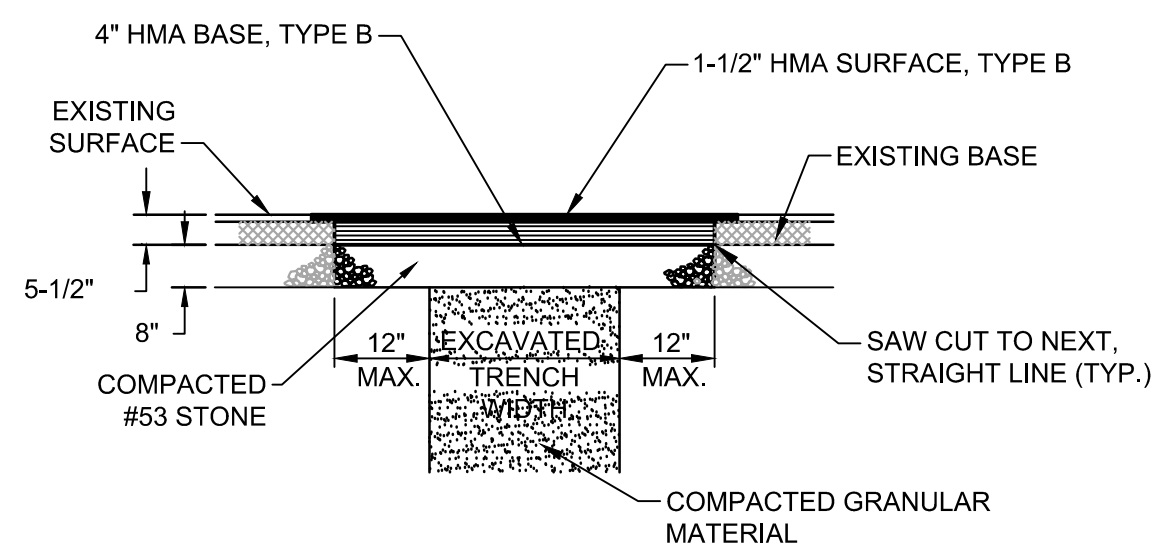
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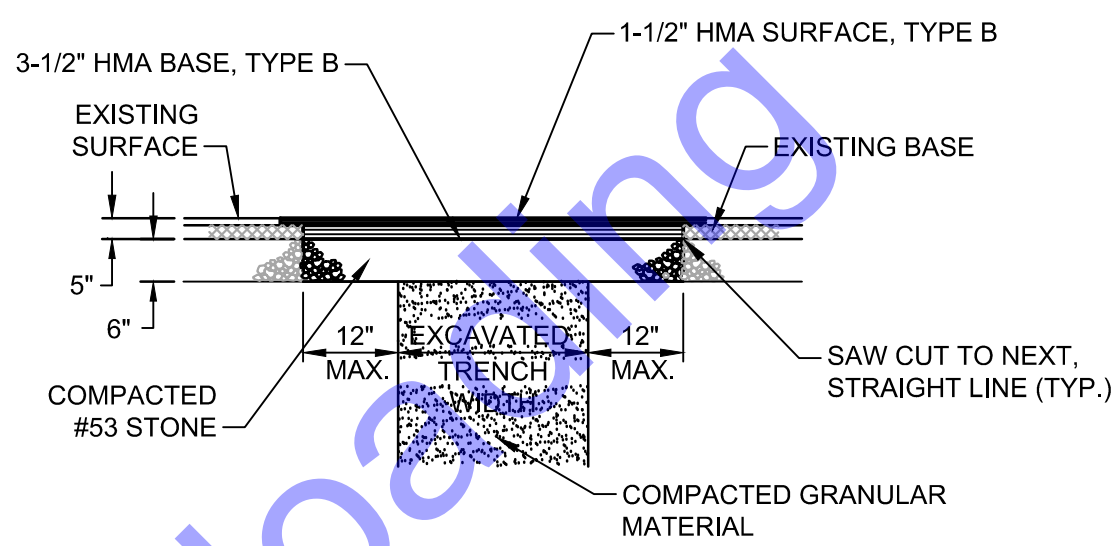
GRAVEL ROAD-DRIVE REPLACEMENT



GRASSED AREA



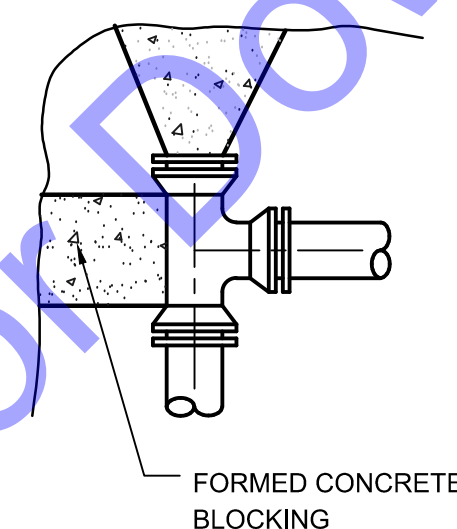
LOCAL ASPHALT PAVEMENTS - ROADS, DRIVES, ALLEYS, AND PARKING AREAS WITHIN PUBLIC RIGHT-OF-WAY



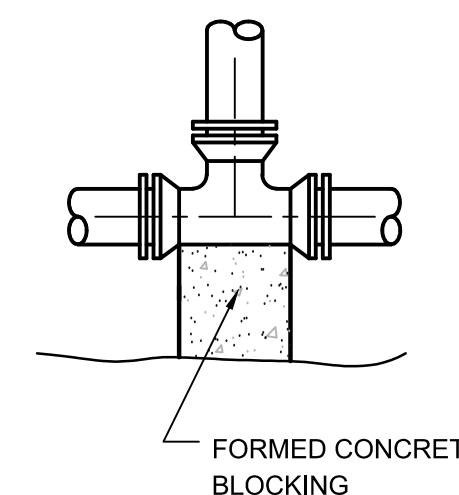
ASPHALT PAVEMENT-DRIVES AND PARKING AREAS OUTSIDE OF PUBLIC RIGHT-OF-WAY

**SURFACE REPLACEMENT DETAILS**

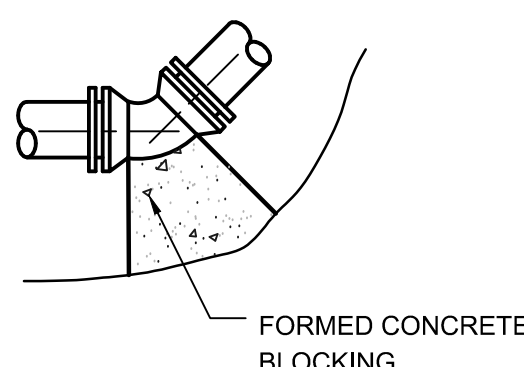
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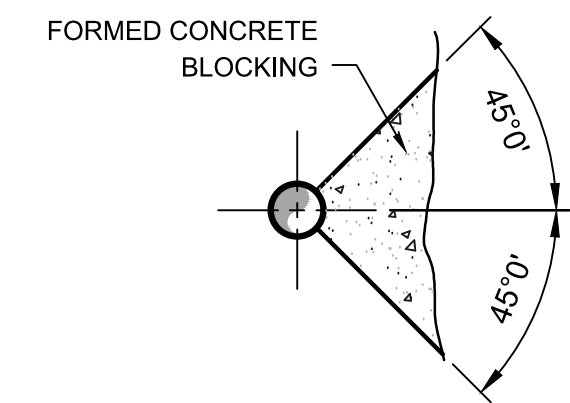
DETAIL A



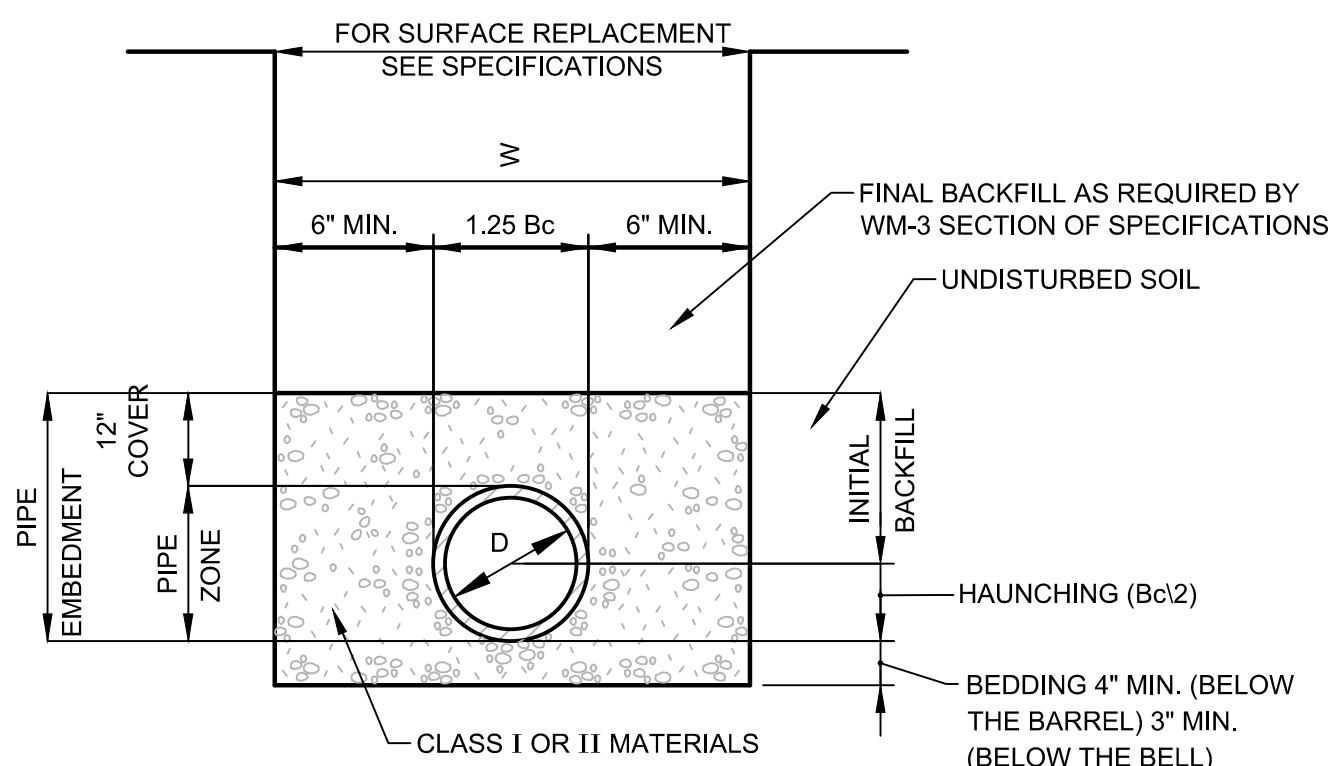
DETAIL B



DETAIL C



TYP. PROFILE



W = MAXIMUM ALLOWABLE TRENCH WIDTH FOR PIPE AS PER ASTM NOT TO EXCEED FOUR (4) FEET FOR 6" THROUGH 24" PIPE NOR SIX (6) FEET FOR 27" THROUGH 48" PIPE  
 D = PIPE DIAMETER (INTERNAL)  
 Bc = PIPE DIAMETER (EXTERNAL)

**NOTES:**

1. COMPACTED INITIAL BACKFILL SHALL EXTEND A MINIMUM OF 12" ABOVE THE TOP OF THE PIPE. FINAL BACKFILL ABOVE THIS POINT SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND AS REQUIRED HEREIN.
2. WHEN CLASS I MATERIAL IS USED FOR BEDDING, HAUNCHING, AND INITIAL BACKFILL COMPACTION MAY BE ACCOMPLISHED BY HAND OR MECHANICAL TAMPING, OR BY WALKING TO A MINIMUM OF 85% STANDARD PROCTOR DENSITY.
3. WHEN CLASS II MATERIAL IS USED FOR BEDDING, HAUNCHING, AND INITIAL BACKFILL COMPACTION MAY BE ACCOMPLISHED BY HAND OR MECHANICAL TAMPING TO A MINIMUM OF 85% STANDARD PROCTOR DENSITY.
4. WORK FALLING UNDER THE JURISDICTION OF THE INDIANA DEPARTMENT OF TRANSPORTATION (INDOT) SHALL UTILIZE COMPACTED GRANULAR BACKFILL MATERIAL FOR INITIAL AND FINAL BACKFILL ANYWHERE WITHIN 12 FEET OF THE EDGE OF PAVEMENT. FOR ALL OTHER NON-INDOT PAVEMENT AREAS (INCLUDING BOTH HARD SURFACED AND COMPACTED AGGREGATE), COMPACTED GRANULAR BACKFILL MATERIAL SHALL BE USED WITHIN 5 FEET OF THE EDGE OF THE PAVEMENT.

**TRENCH DETAIL FOR FLEXIBLE CONDUITS**

NO SCALE

TABLE OF DIMENSION FOR CONCRETE BLOCKING																									
SIZE	TEE				PLUG				90° BEND				45° BEND				22½° BEND				11½° BEND				
PIPE	L	T	W	D	L	T	W	D	s	L	T	W	D	L	T	W	D	L	T	W	D				
4"	18"	12"	12"	8"	18"	12"	18"	18"	2"	24"	12"	24"	8"	18"	8"	12"	8"	18"	8"	12"	8"	15"	8"	12"	6"
6"	18"	12"	12"	8"	18"	12"	18"	18"	2"	24"	15"	24"	8"	18"	10"	12"	8"	18"	10"	12"	8"	18"	10"	18"	6"
8"	30"	12"	24"	8"	30"	18"	30"	24"	4"	36"	16"	30"	8"	24"	12"	18"	8"	24"	12"	18"	8"	24"	12"	18"	8"
10"	36"	18"	30"	10"	36"	18"	36"	24"	4"	48"	20"	36"	10"	30"	14"	24"	10"	30"	14"	24"	10"	24"	14"	18"	8"
12"	48"	18"	36"	10"	42"	18"	42"	24"	4"	54"	24"	48"	10"	36"	16"	30"	10"	36"	16"	30"	10"	30"	16"	24"	10"
14"	54"	24"	42"	12"	48"	18"	48"	30"	6"	60"	28"	60"	12"	42"	16"	42"	12"	42"	16"	42"	12"	33"	16"	27"	12"
16"	60"	24"	48"	12"	54"	18"	54"	30"	6"	66"	32"	63"	12"	48"	18"	48"	12"	48"	18"	48"	12"	36"	18"	30"	12"
18"	66"	30"	54"	14"	60"	24"	60"	36"	6"	66"	36"	66"	14"	54"	18"	54"	14"	54"	18"	54"	14"	39"	18"	33"	14"
20"	72"	30"	60"	14"	66"	24"	66"	36"	8"	72"	40"	69"	14"	60"	20"	60"	14"	60"	20"	60"	14"	42"	20"	36"	14"
24"	84"	36"	72"	18"	78"	30"	78"	42"	8"	84"	48"	75"	18"	72"	22"	72"	18"	72"	22"	72"	18"	48"	22"	42"	18"

**NOTES:**

1. FOR TEE WITH BRANCH UNEQUAL TO RUN USE TEE TYPE KICKER WITH D, L, AND W DIMENSIONS THE SAME AS THOSE FOR PLUG WITH SAME DIAMETER AS BRANCH OF TEE. SELECT "T" DIMENSIONS FROM TEE TABLE UNDER COLUMN HEADED BY THE SIZE OF THE BRANCH.
2. IF EXACT SIZE PIPE BLOCKING IS NOT SHOWN USE NEXT LARGER SIZE.
3. DEPTH "D" MAY BE GREATER THAN SPECIFIED TO ALLOW WORKING SPACE. BLOCKING MUST BE PLACED AGAINST UNDISTURBED EARTH OR ROCK.
4. CONCRETE BLOCKING SHALL BE CLASS "B".

**THRUST BLOCKING DETAIL**

SCALE: N.T.S.

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REGISTERED PROFESSIONAL ENGINEER  
 No. 19700508  
 STATE OF INDIANA  
 Benjamin H. Adams  
 Signature Date 1-6-2025

**CITY OF BERNE, ADAMS COUNTY, INDIANA**

CR S 150 W IMPROVEMENTS - PHASE 2

MISCELLANEOUS TABLES AND DETAILS

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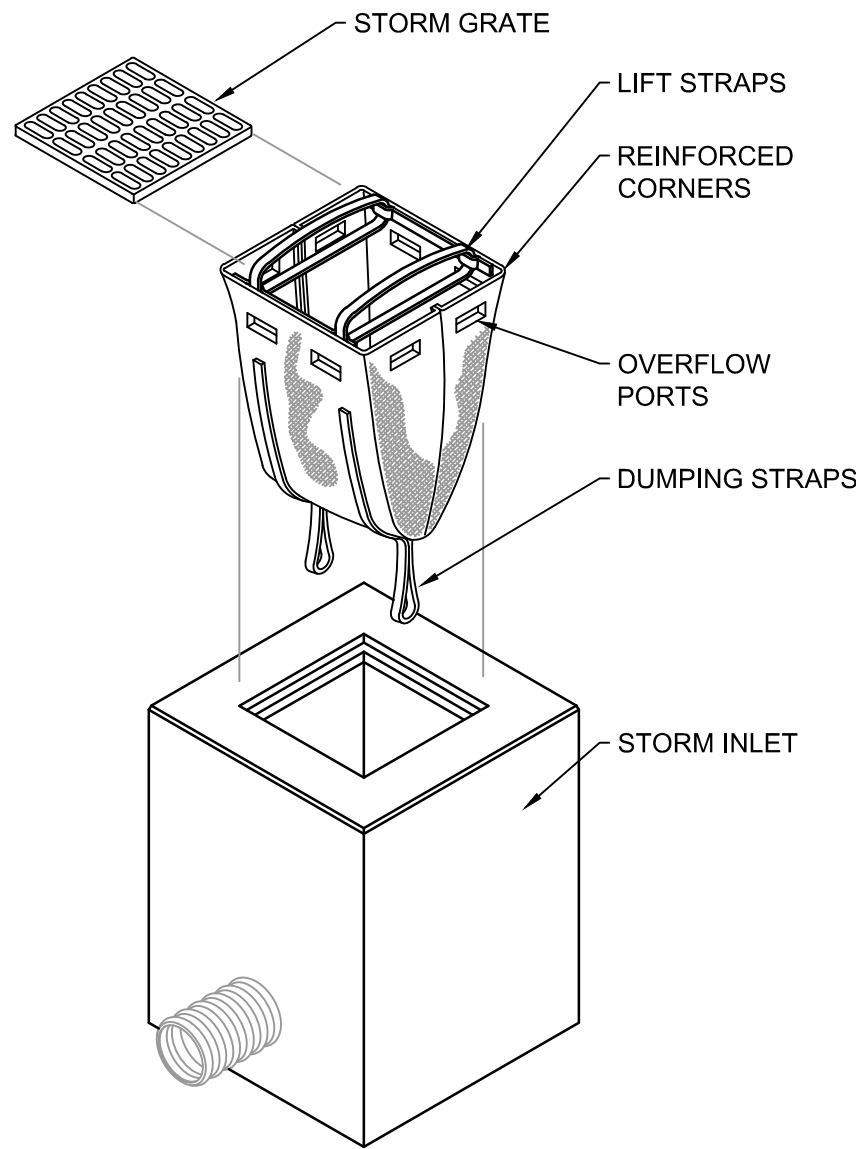
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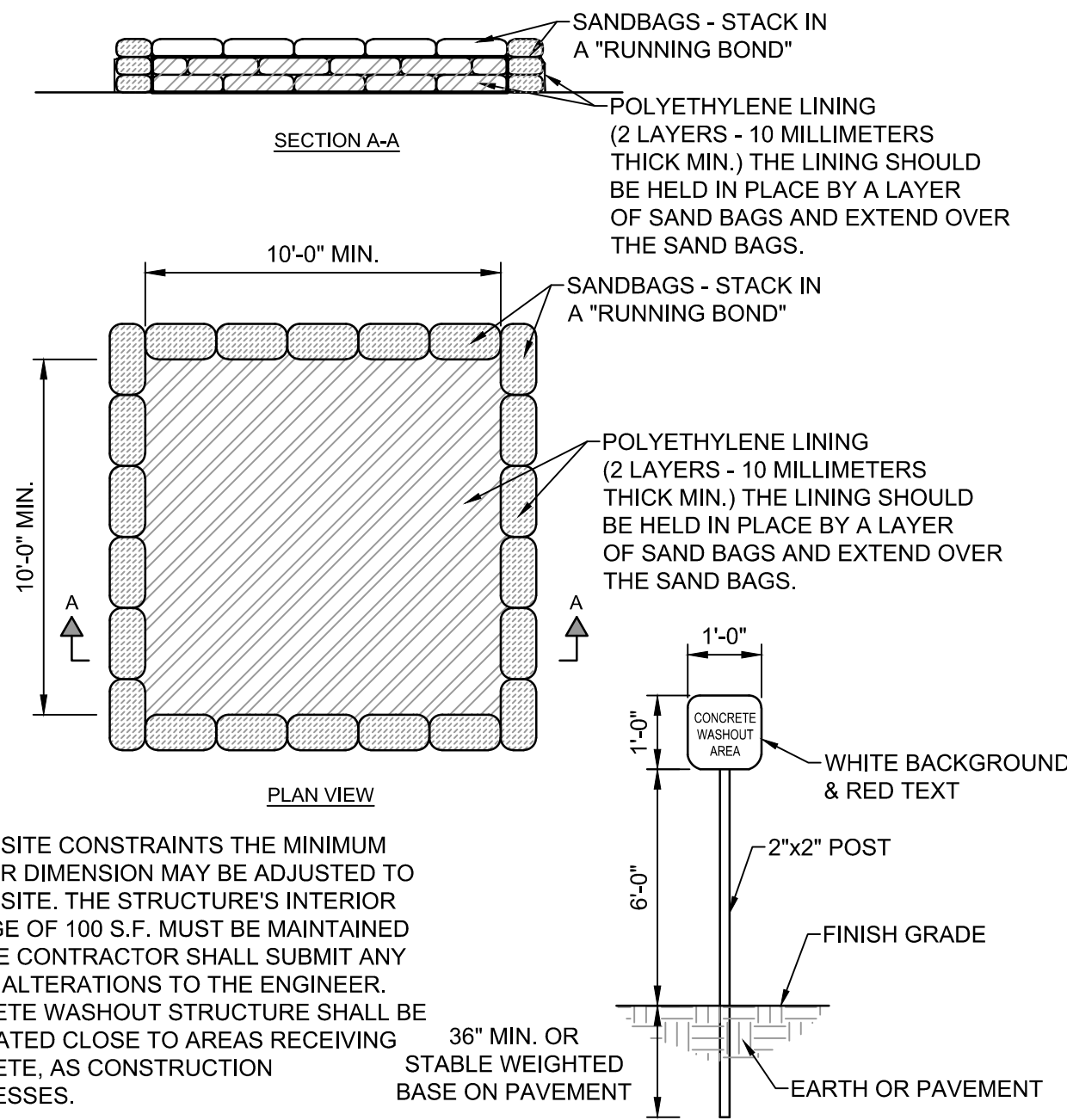
**MD3**

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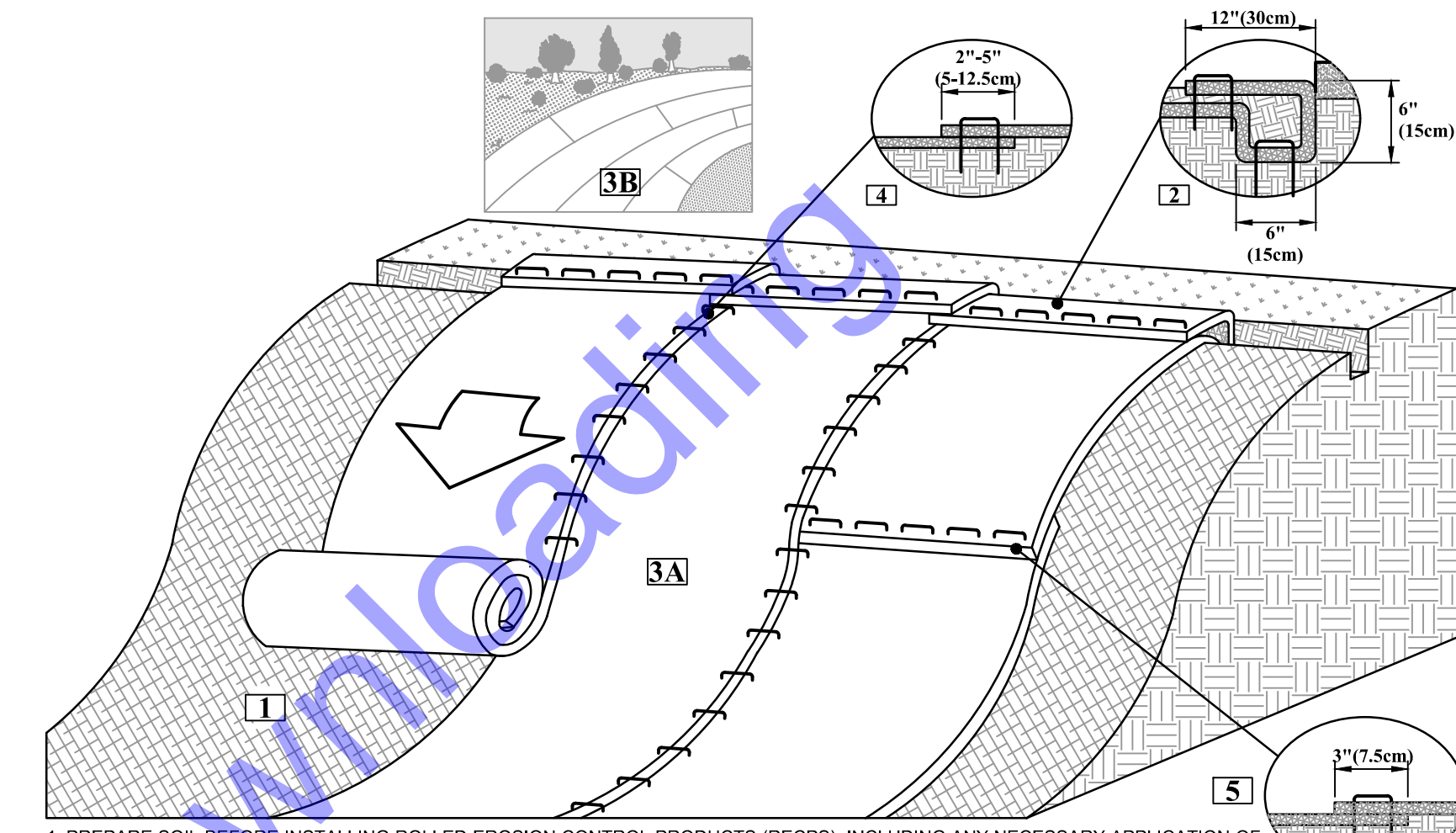


**INSERT (BASKET) INLET PROTECTION DETAIL**  
NOT TO SCALE



**CONCRETE WASHOUT DETAIL**  
NOT TO SCALE

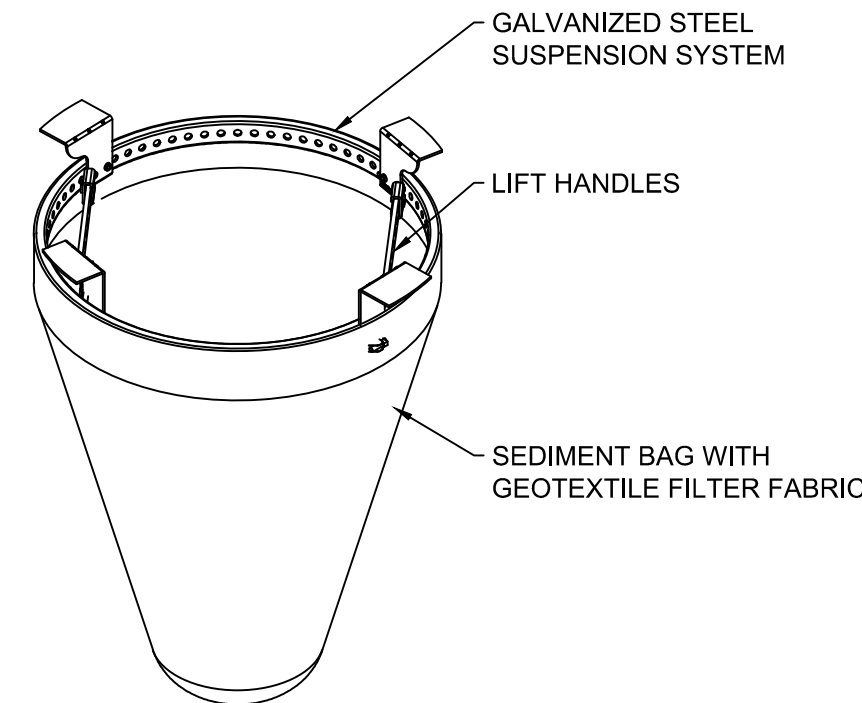
NOTE:  
DUE TO SITE CONSTRAINTS THE MINIMUM INTERIOR DIMENSION MAY BE ADJUSTED TO FIT THE SITE. THE STRUCTURE'S INTERIOR FOOTAGE OF 100 S.F. MUST BE MAINTAINED AND THE CONTRACTOR SHALL SUBMIT ANY DESIGN ALTERATIONS TO THE ENGINEER. CONCRETE WASHOUT STRUCTURE SHALL BE RE-LOCATED CLOSE TO AREAS RECEIVING CONCRETE, AS CONSTRUCTION PROGRESSES.



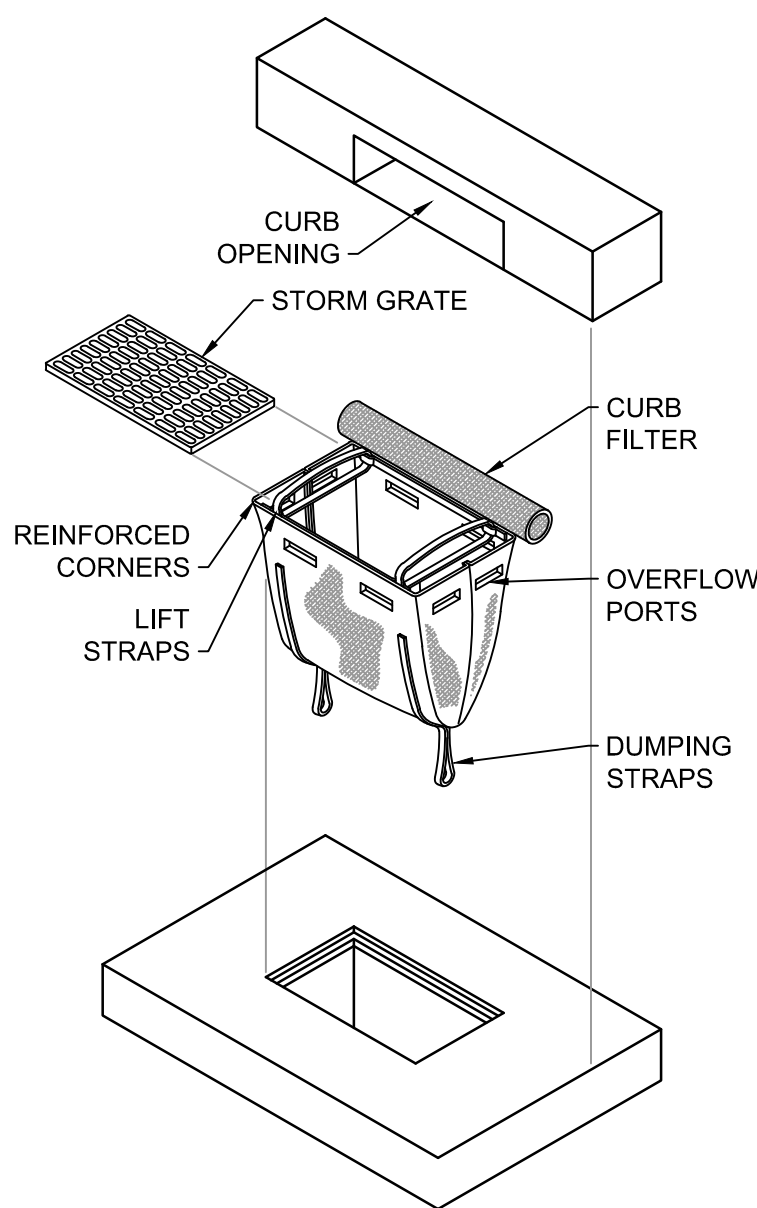
**EROSION CONTROL BLANKET DETAIL SLOPE INSTALLATION**  
NOT TO SCALE

1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECPS), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECPS IN A 6"(15CM) DEEP X 6"(15CM) WIDE TRENCH WITH APPROXIMATELY 12" (30CM) OF RECPS EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECPS WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO THE COMPACTED SOIL AND FOLD THE REMAINING 12"(30CM) PORTION OF RECPS BACK OVER THE SEED AND COMPACTED SOIL. SECURE RECPS OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12"(30CM) APART ACROSS THE WIDTH OF THE RECPS.
3. ROLL THE RECPS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. RECPS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECPS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE.
4. THE EDGES OF PARALLEL RECPS MUST BE STAPLED WITH APPROXIMATELY 2" - 5" (5-12.5CM) OVERLAP DEPENDING ON THE RECPS TYPE.
5. CONSECUTIVE RECPS SPICED DOWN THE SLOPE MUST BE END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3"(7.5CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12"(30CM) APART ACROSS ENTIRE RECPS WIDTH.

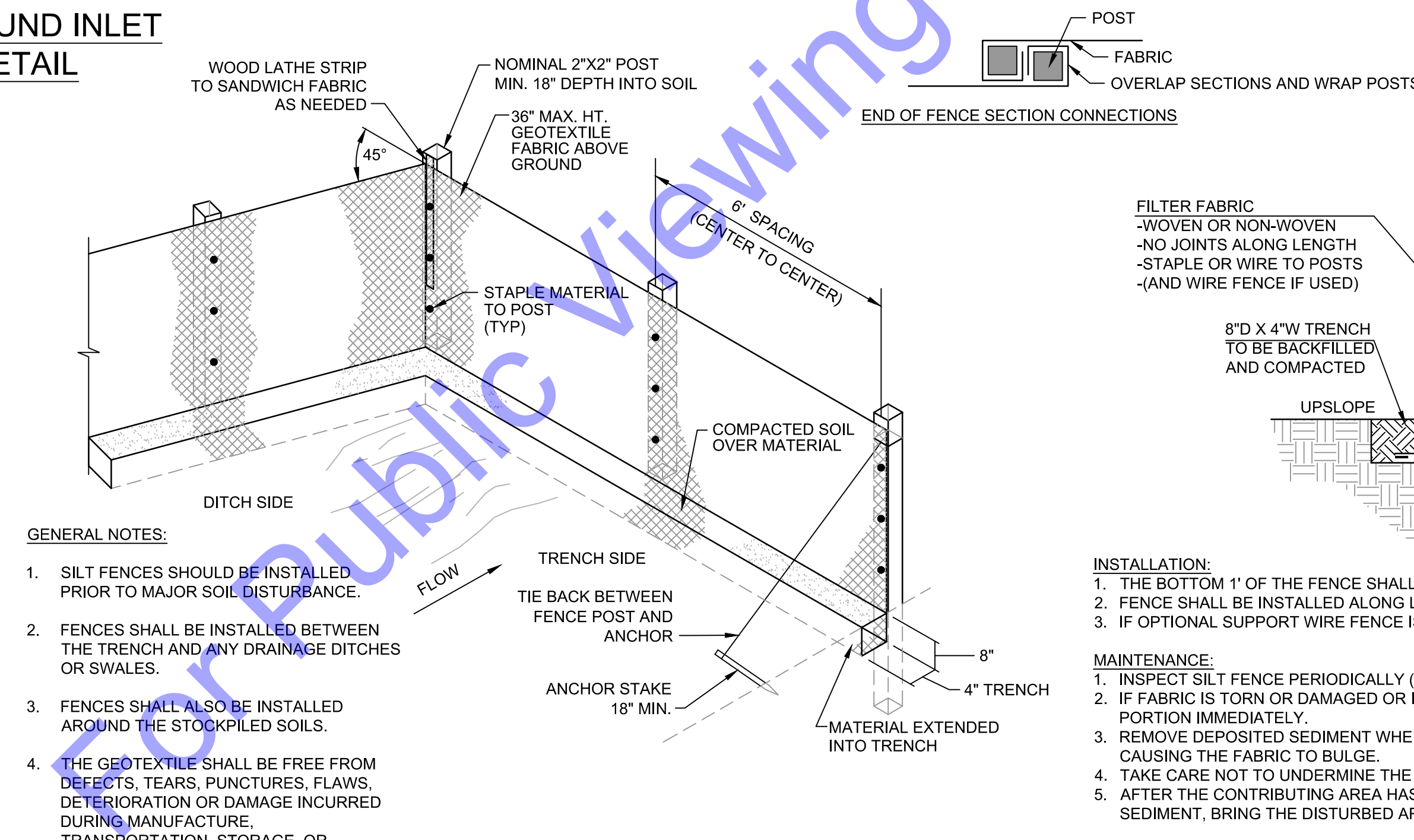
NOTE:  
IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6"(15CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECPS.



**INSERT (BASKET) ROUND INLET PROTECTION DETAIL**  
NOT TO SCALE

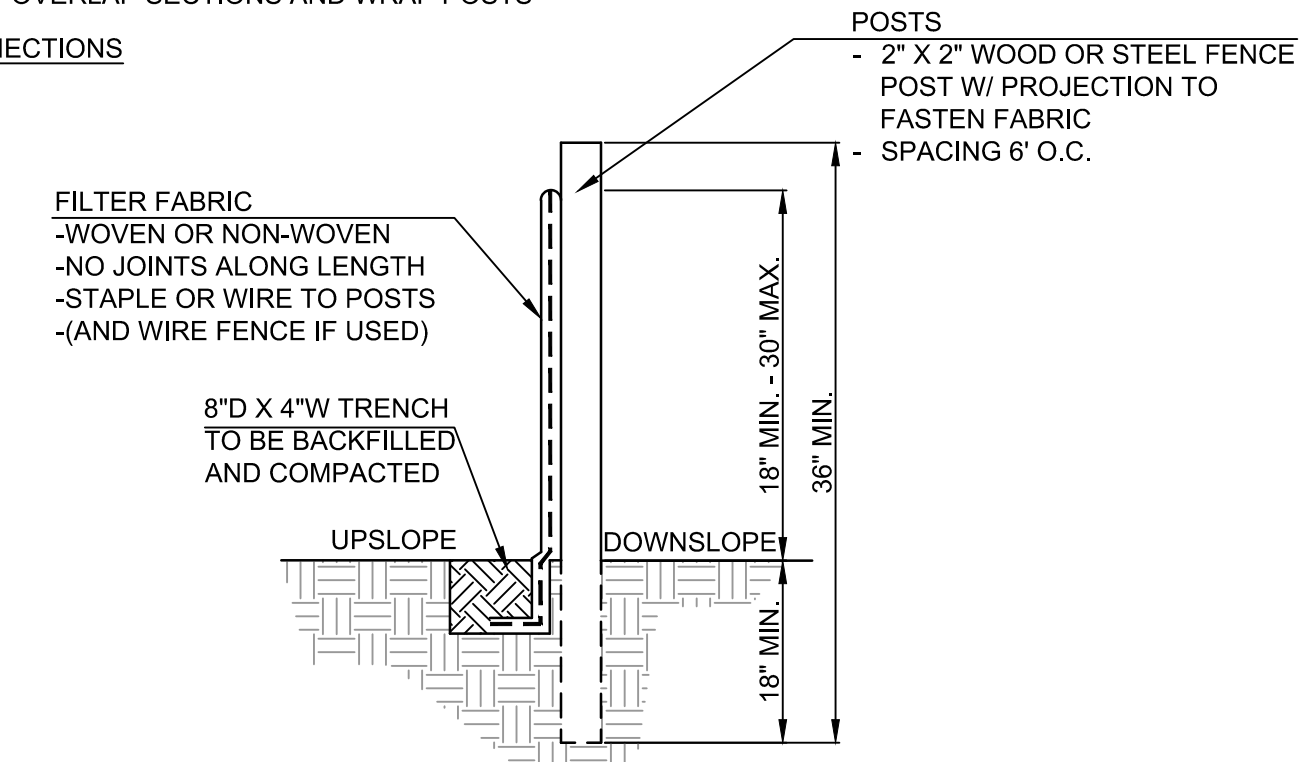


**INSERT (BASKET) CURB INLET PROTECTION DETAIL**  
NOT TO SCALE

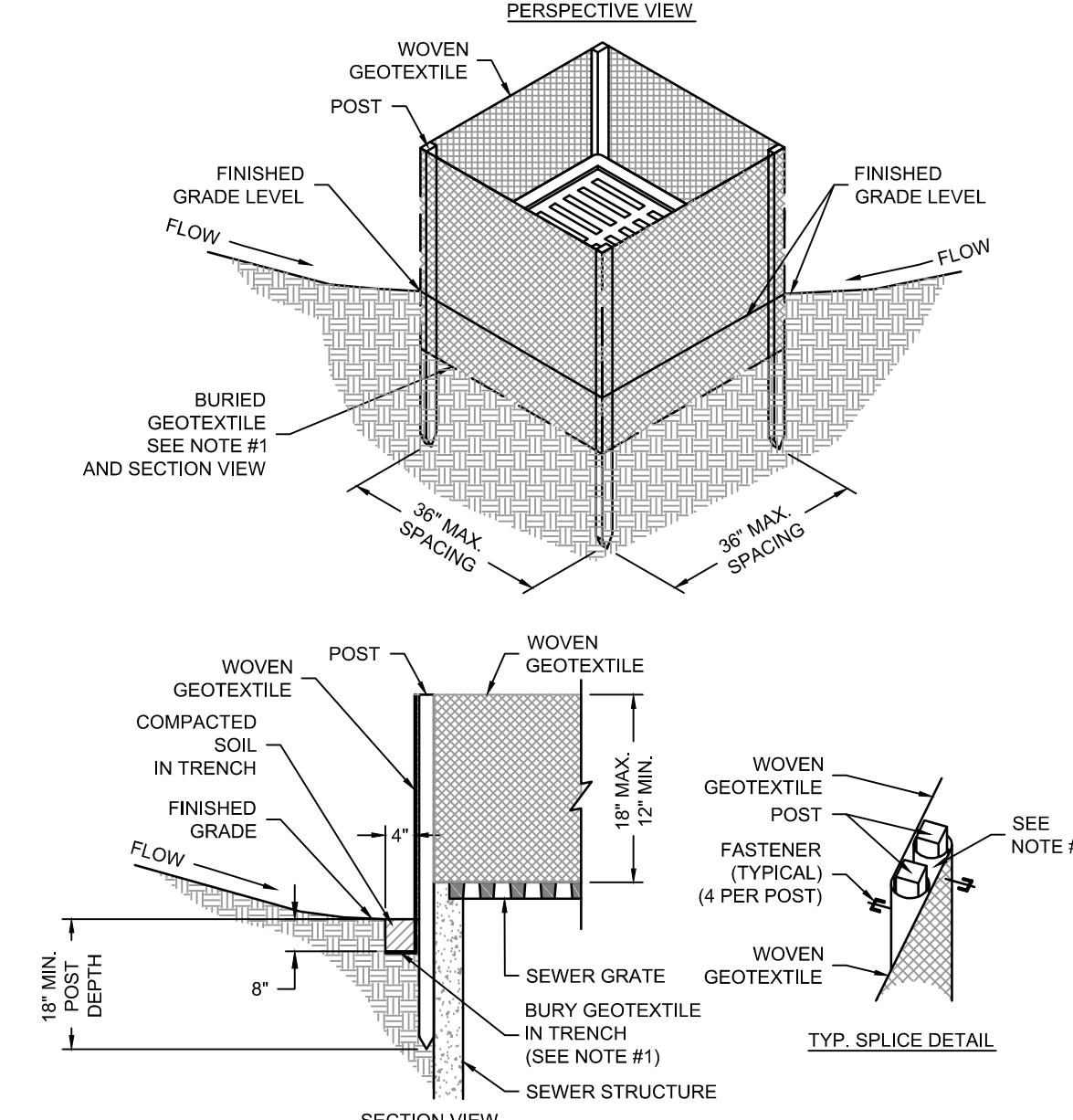


- GENERAL NOTES:**
1. SILT FENCES SHOULD BE INSTALLED PRIOR TO MAJOR SOIL DISTURBANCE.
  2. FENCES SHALL BE INSTALLED BETWEEN THE TRENCH AND ANY DRAINAGE DITCHES OR SWALES.
  3. FENCES SHALL ALSO BE INSTALLED AROUND THE STOCKPILED SOILS.
  4. THE GEOTEXTILE SHALL BE FREE FROM DEFECTS, TEARS, PUNCTURES, FLAWS, DETERIORATION OR DAMAGE INCURRED DURING MANUFACTURE, TRANSPORTATION, STORAGE, OR INSTALLATION.
  5. TIE BACKS SHALL BE PLACED AS REQUIRED.

**SILT FENCE DETAIL**  
NOT TO SCALE



- INSTALLATION:**
1. THE BOTTOM 1' OF THE FENCE SHALL BE BURIED IN THE TRENCH ON THE UPSLOPE SIDE.
  2. FENCE SHALL BE INSTALLED ALONG LEVEL GRADES, NOT ACROSS FLOW CHANNELS.
  3. IF OPTIONAL SUPPORT WIRE FENCE IS USED, POST SPACING MAY BE EXTENDED TO 8' O.C.
- MAINTENANCE:**
1. INSPECT SILT FENCE PERIODICALLY (WEEKLY) AND AFTER EACH STORM EVENT.
  2. IF FABRIC IS TORN OR DAMAGED OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY.
  3. REMOVE DEPOSITED SEDIMENT WHEN IT REACHES HALF THE HEIGHT OF THE FENCE, OR IT IS CAUSING THE FABRIC TO BULGE.
  4. TAKE CARE NOT TO UNDERMINE THE FENCE DURING SEDIMENT REMOVAL.
  5. AFTER THE CONTRIBUTING AREA HAS BEEN STABILIZED, REMOVE THE FENCE AND REMAINING SEDIMENT, BRING THE DISTURBED AREA TO GRADE, AND STABILIZE.



- NOTES:**
1. GEOTEXTILE FABRIC LAID ON DOWN-SLOPE SIDE AND BOTTOM OF TRENCH ALONG FULL PERIMETER OF SEWER STRUCTURE. DURING EXCAVATION, MINIMIZE DISTURBING THE GROUND AROUND TRENCH AS MUCH AS IS FEASIBLE AND SMOOTH SURFACE FOLLOWING EXCAVATION TO AVOID CONCENTRATING FLOWS.
  2. IF SPlicing IS NECESSARY, FENCE SECTIONS SHALL BE CLOSE ENOUGH TOGETHER TO CREATE A SEAMLESS JOINT AND PREVENT SILT-LADEN WATER FROM ESCAPING THROUGH THE FENCE AT THE OVERLAP. JOINING SECTIONS SHALL NOT BE PLACED IN LOW SPOTS OR IN SLUMP LOCATIONS.
  3. PREFABRICATED UNITS MAY BE USED WITH PRIOR APPROVAL FROM PROJECT ENGINEER.

**YARD INLET PROTECTION DETAIL**  
NOT TO SCALE

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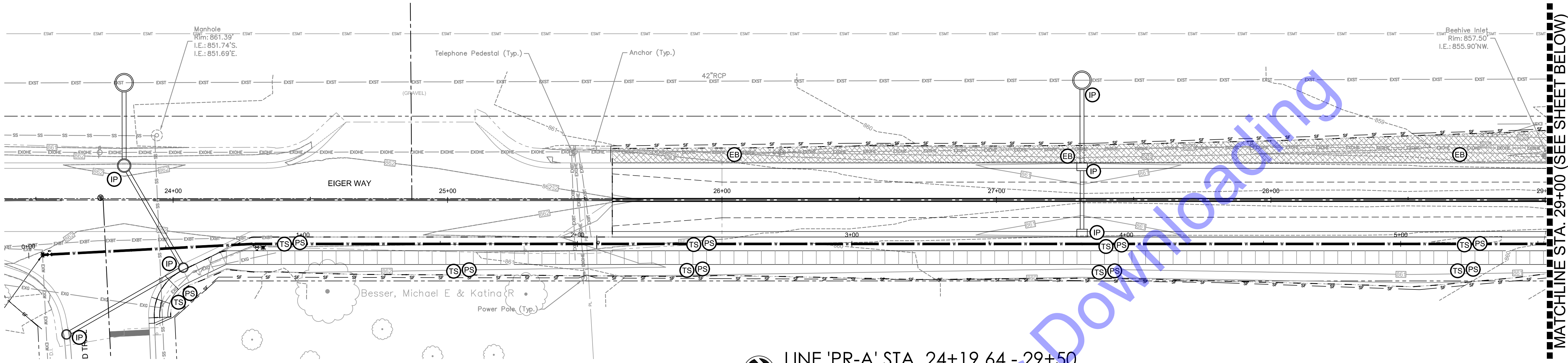
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NJS	EJK	BA

Issue Date:	Project No:	Scale:
12/18/2024	H20124	AS SHOWN

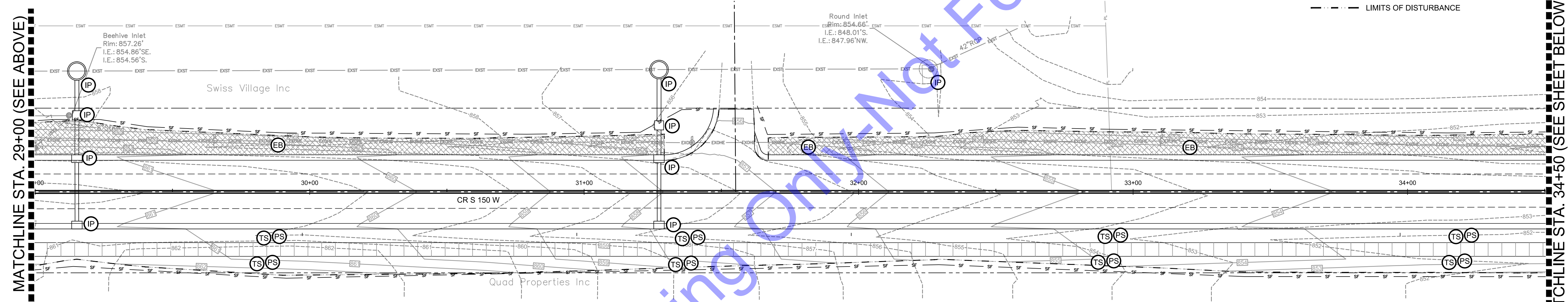
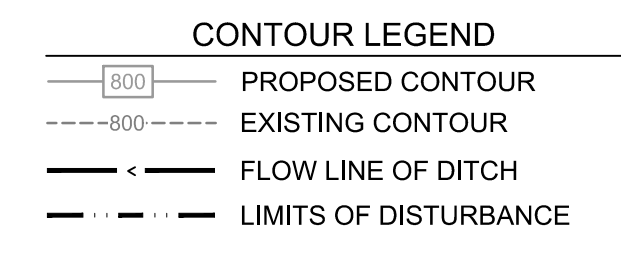
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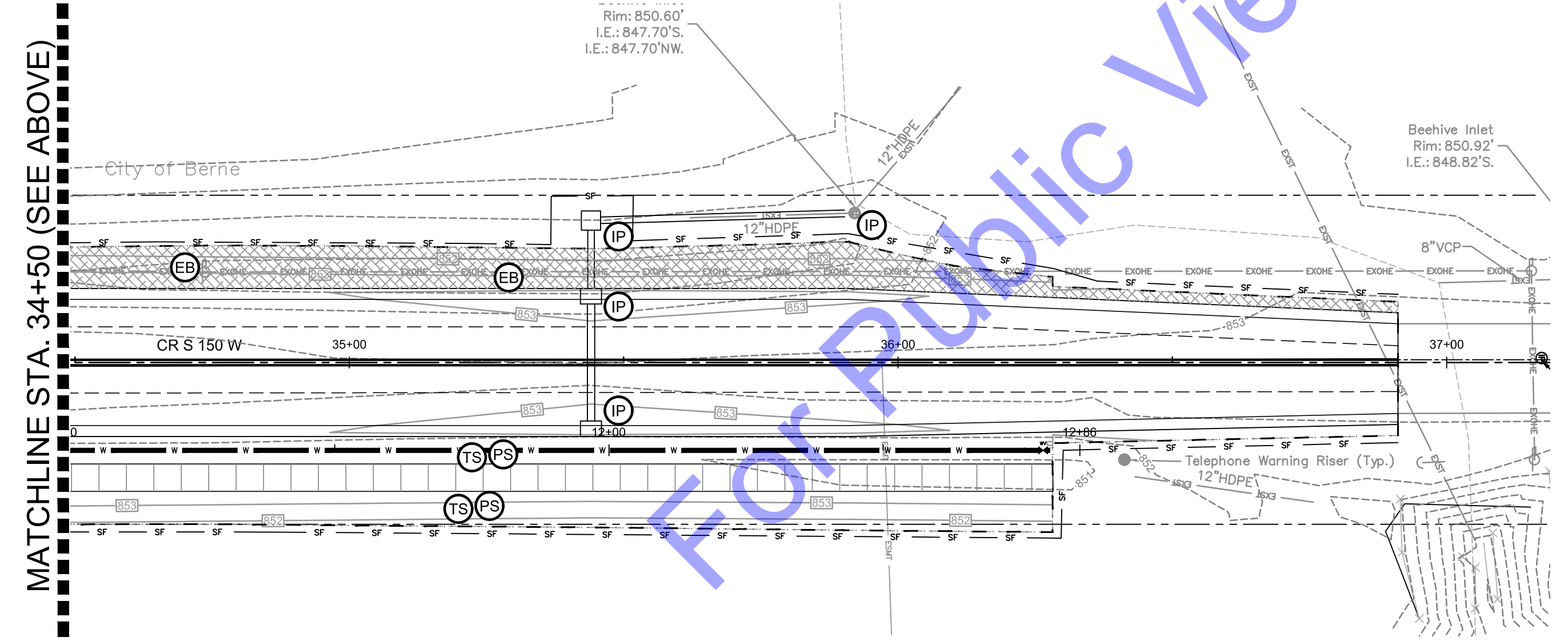
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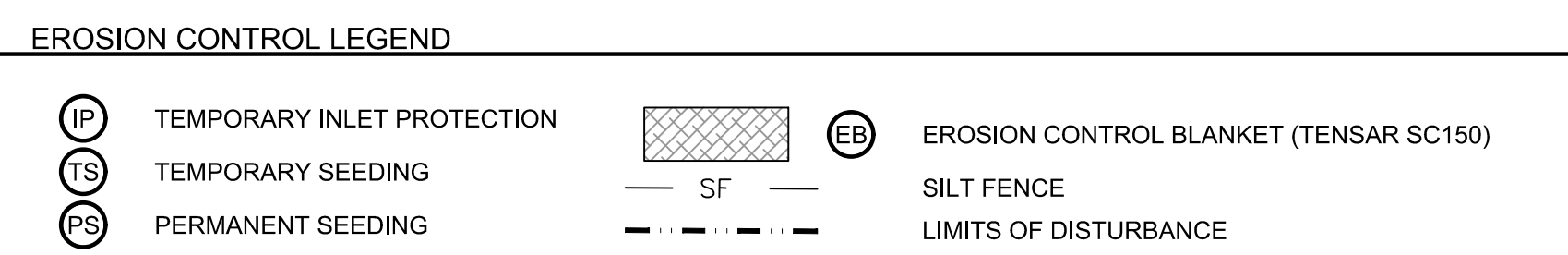
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LINE 'PR-A' STA. 29+50 - 35+00



LINE 'PR-A' STA. 35+00 - 36+91.11



MATCHLINE STA. 29+00 (SEE SHEET BELOW)

MATCHLINE STA. 34+50 (SEE SHEET BELOW)

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REGISTERED PROFESSIONAL ENGINEER  
 No. 19700508  
 STATE OF INDIANA  
 Benjamin H. Adams  
 Signature Date 1-6-2025

CITY OF BERNE  
 ADAMS COUNTY,  
 INDIANA

CR S 150 W IMPROVEMENTS -  
 PHASE 2

EROSION CONTROL PLANS

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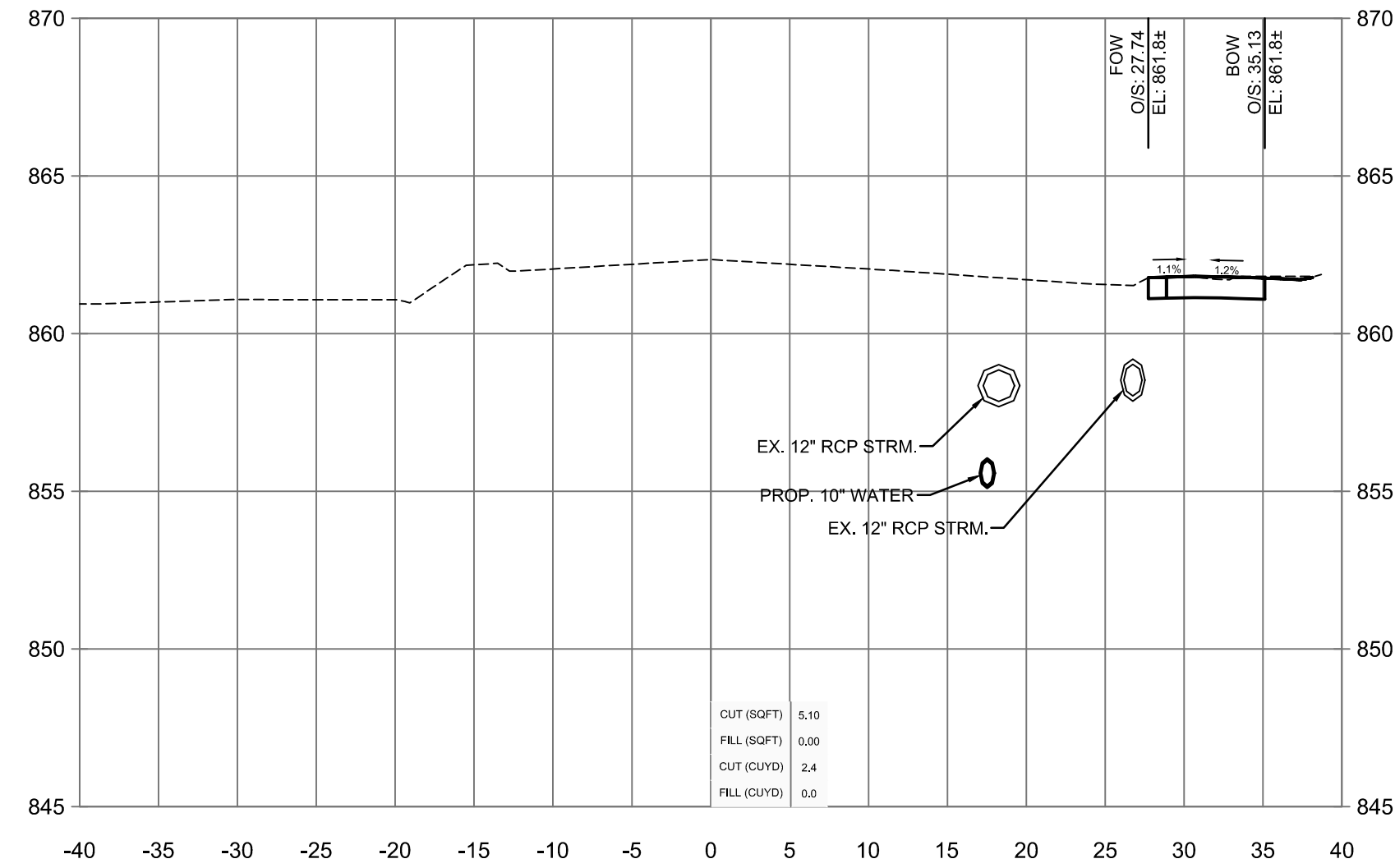
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No.	Submitted / Revision	Date
BID SET		8/13/24
	By: NJS	

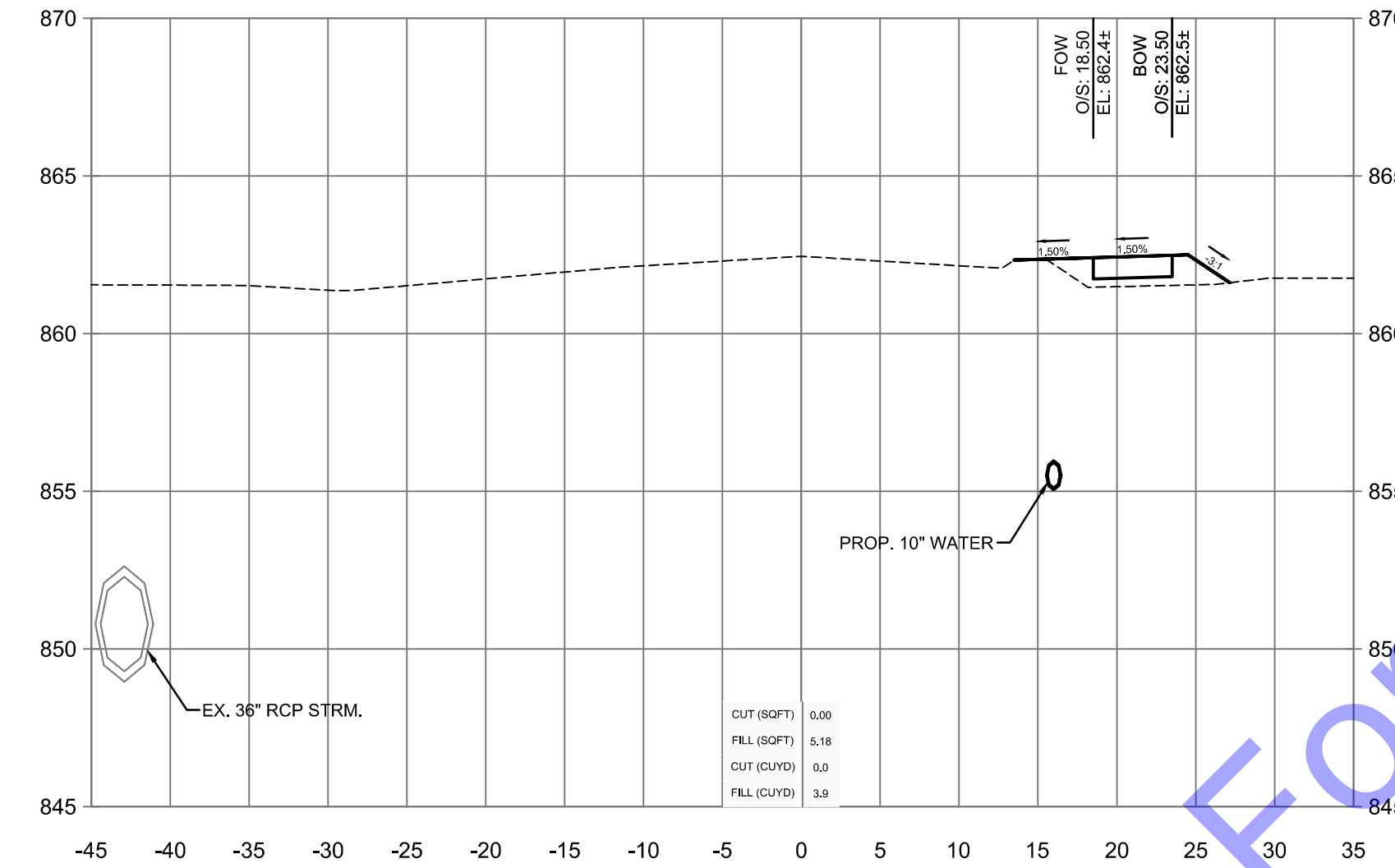
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**EC1**

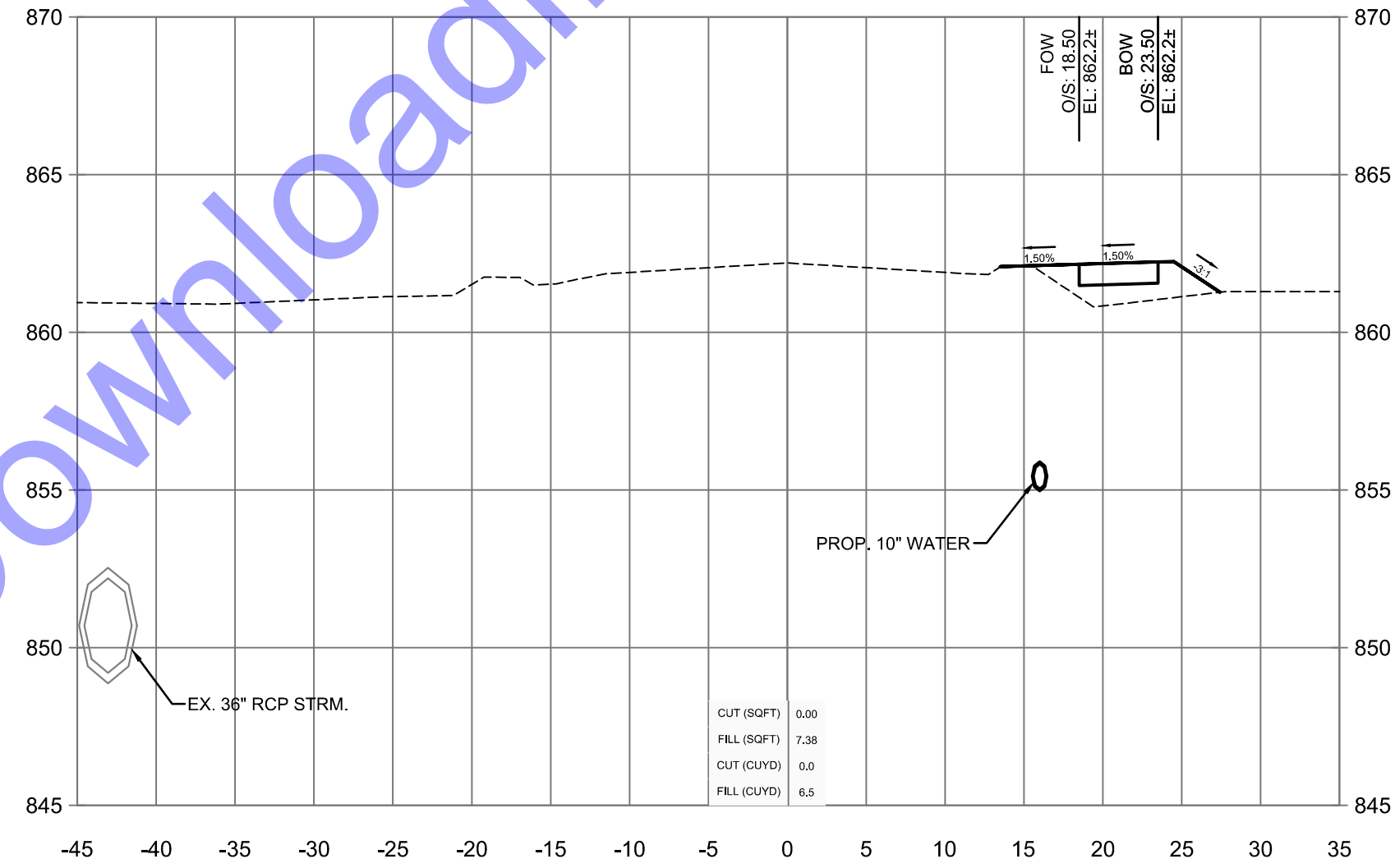
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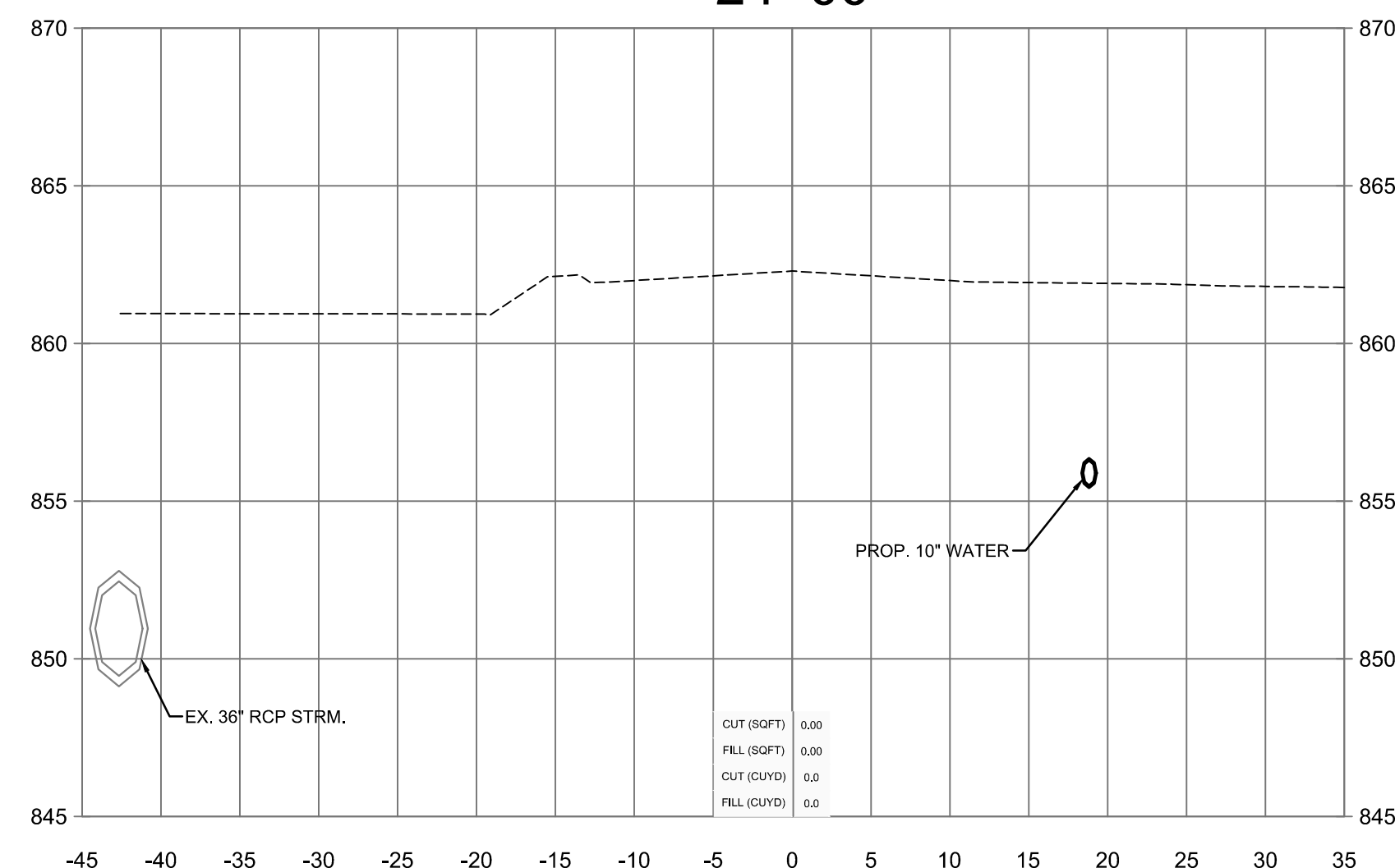
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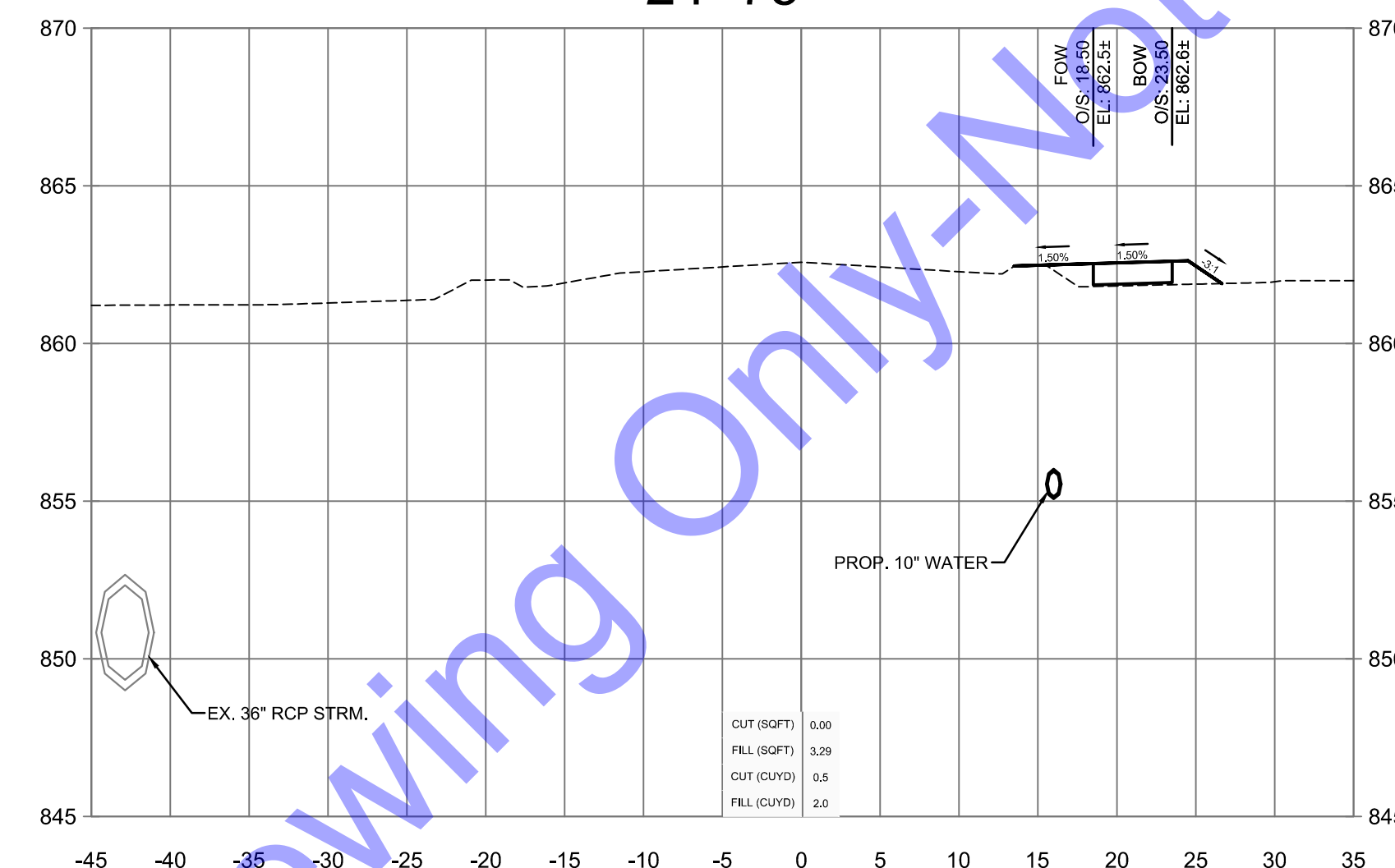
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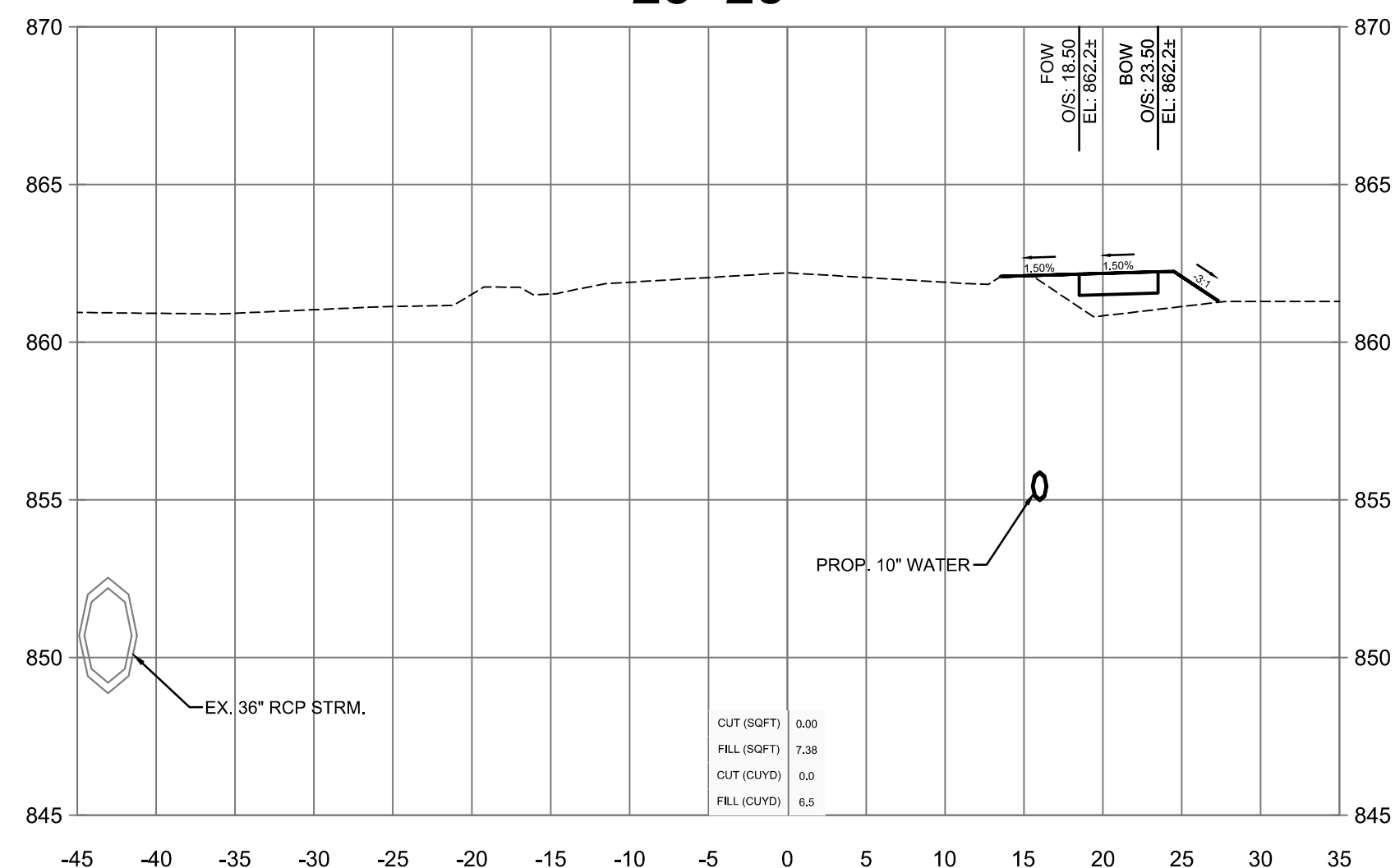
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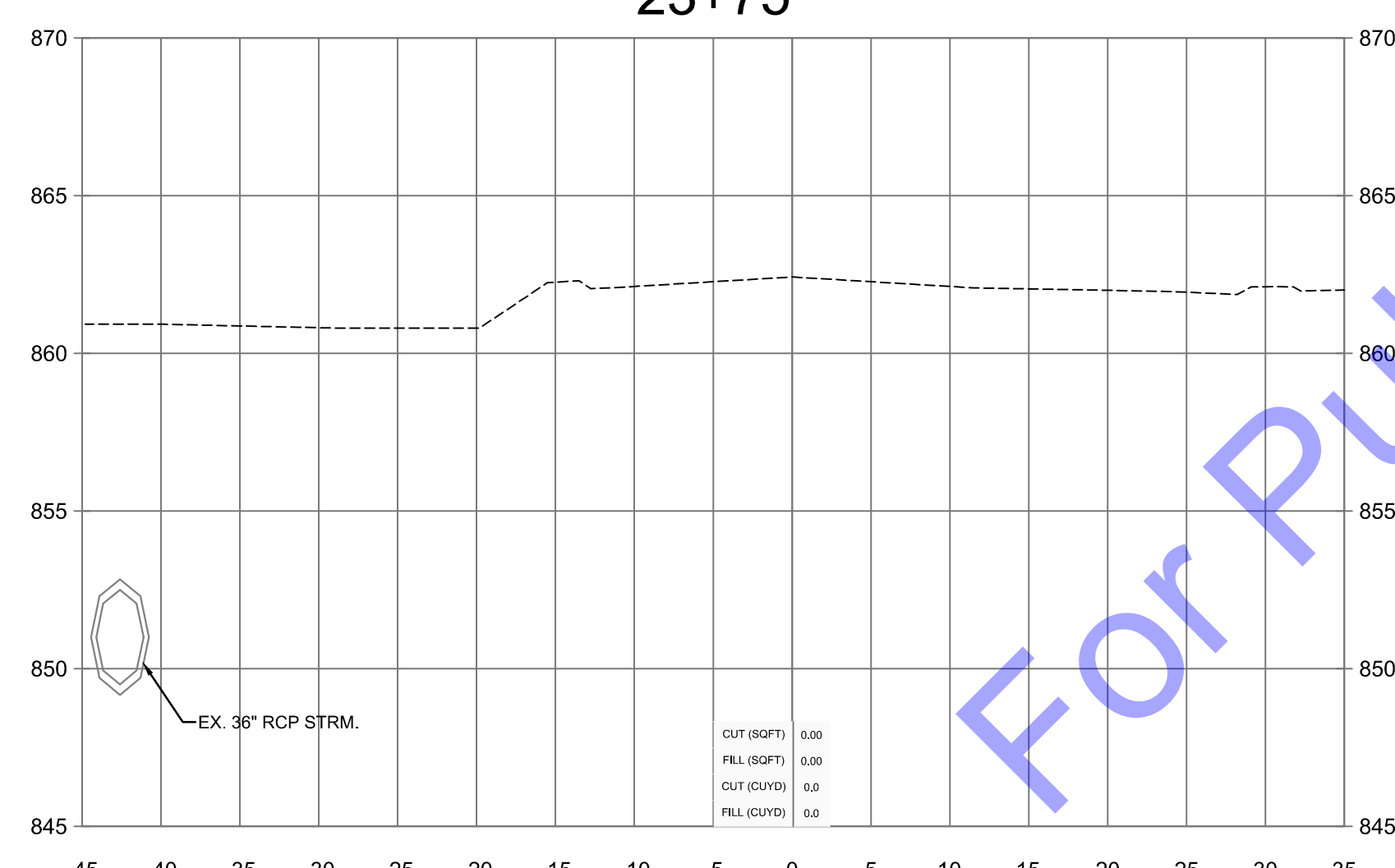
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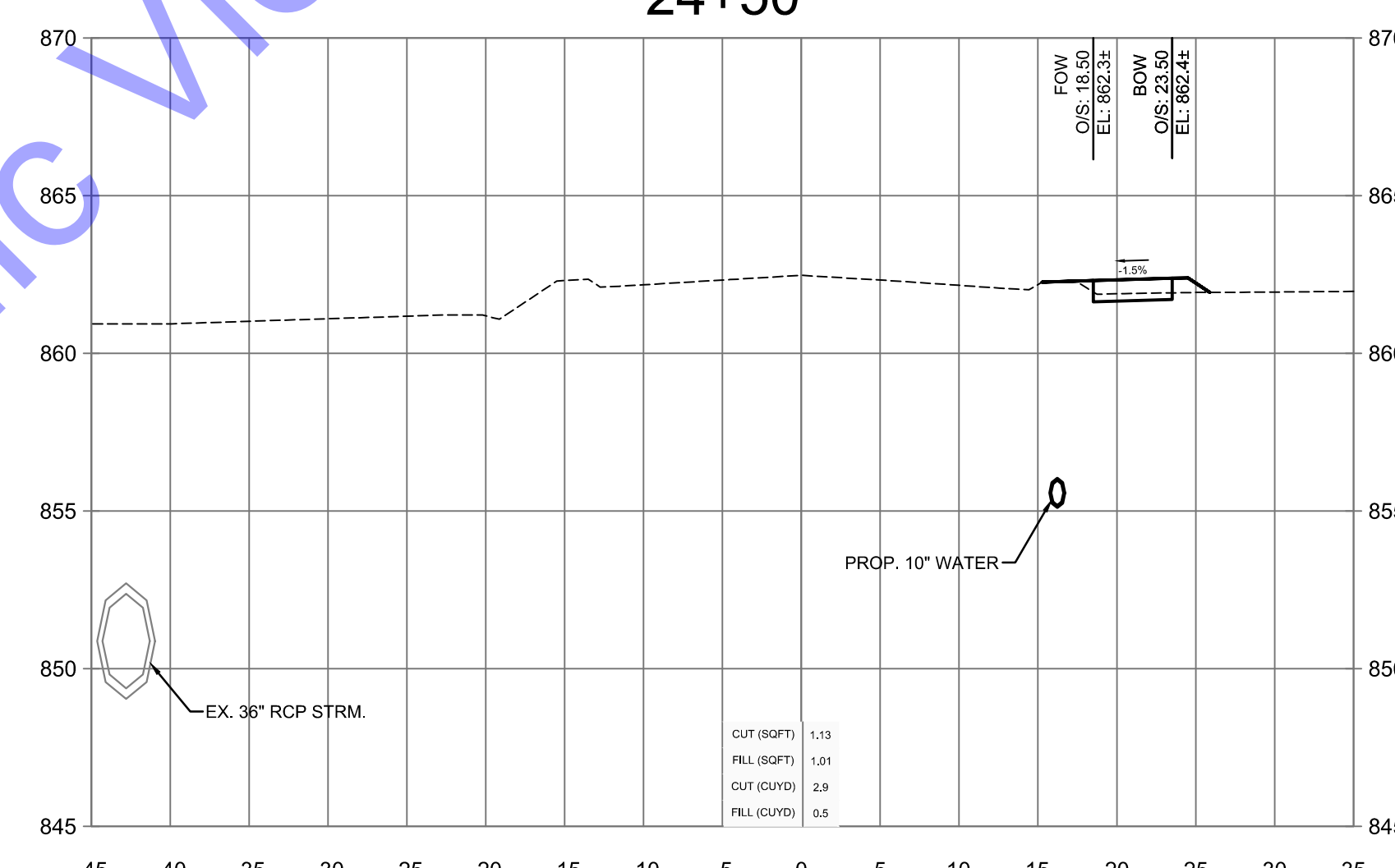
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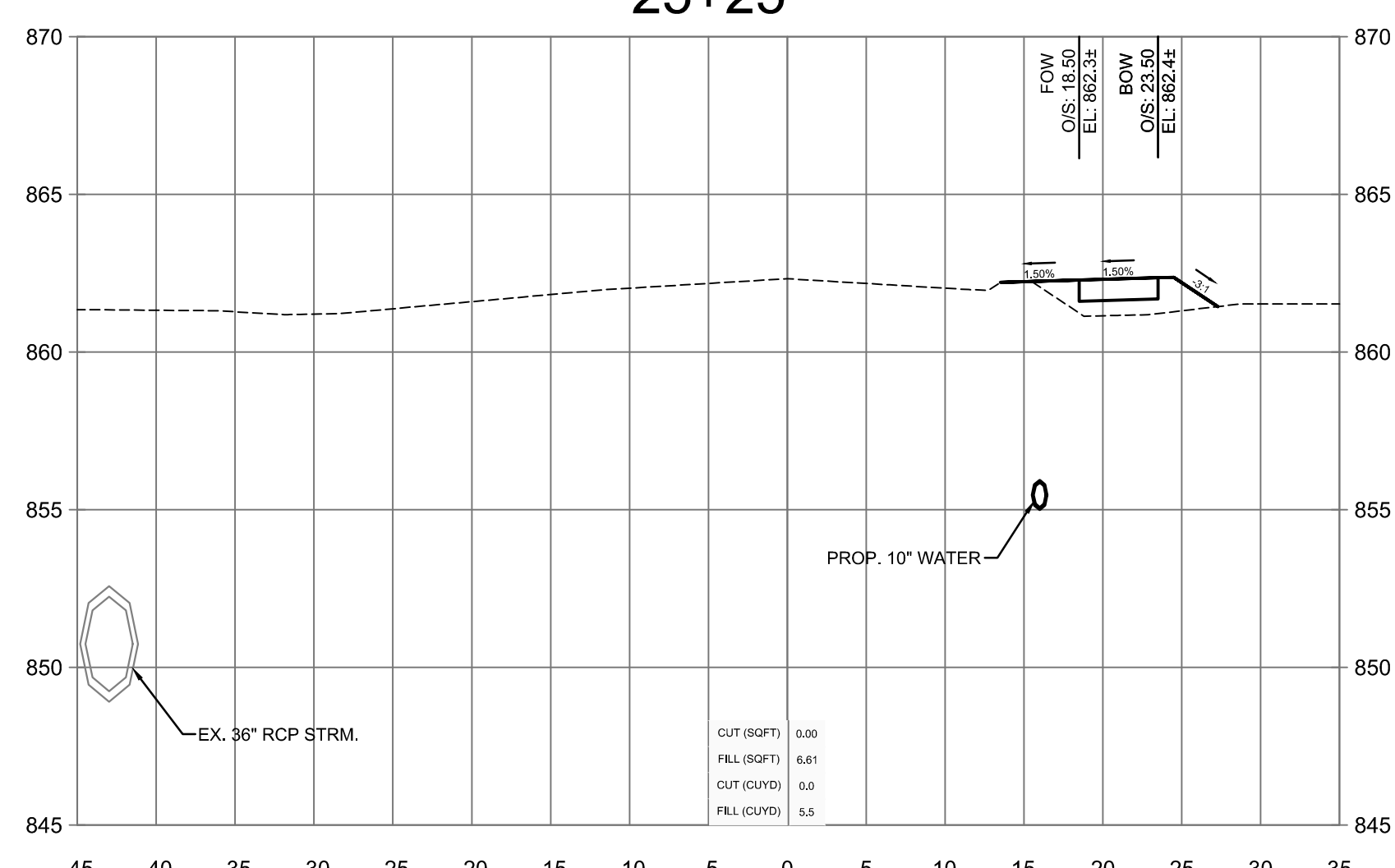
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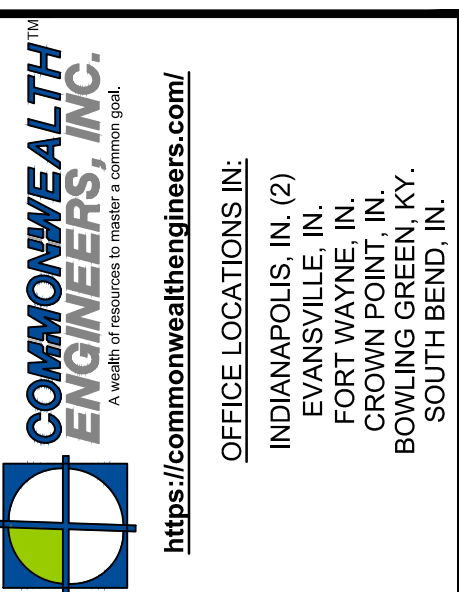
24+25



25+00

CROSS SECTION LEGEND  
 ——— FINISH GRADE  
 - - - - - EXISTING GRADE

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REGISTERED PROFESSIONAL ENGINEER  
 No. 19700508  
 STATE OF INDIANA  
 Signature: H. Adams Date: 1-6-2025

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Designed By: NJS  
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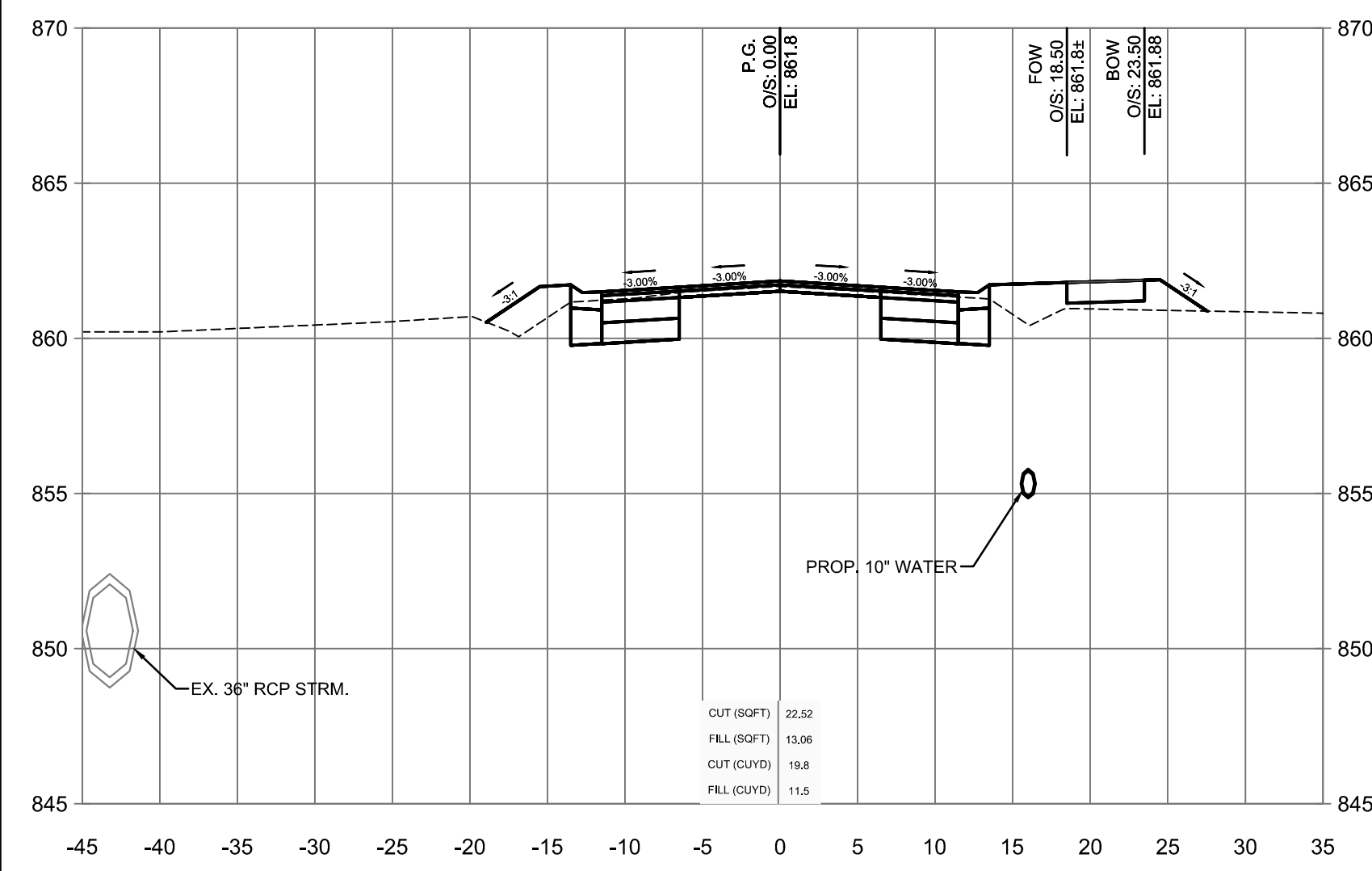
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 Project No: H20124  
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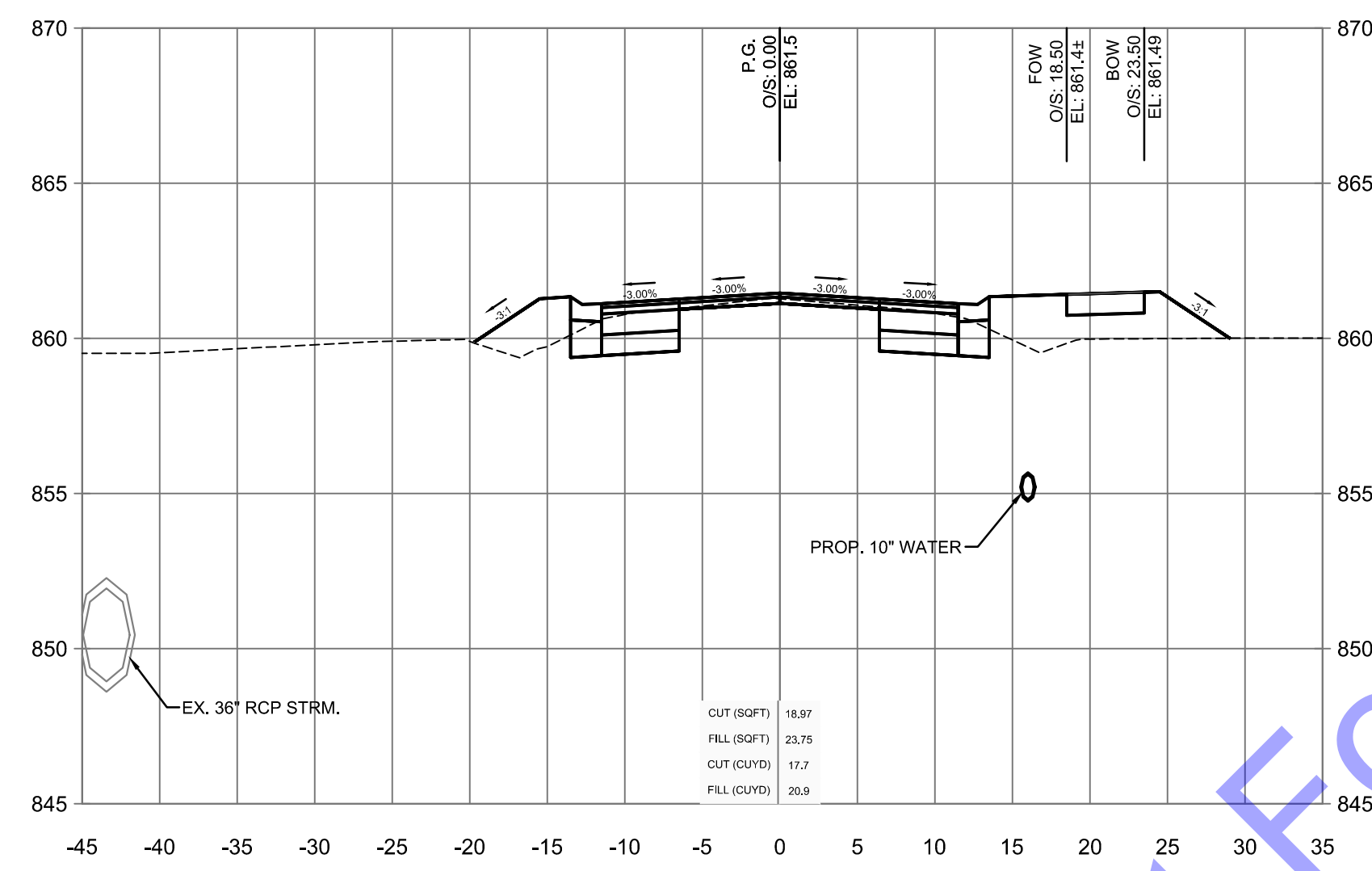
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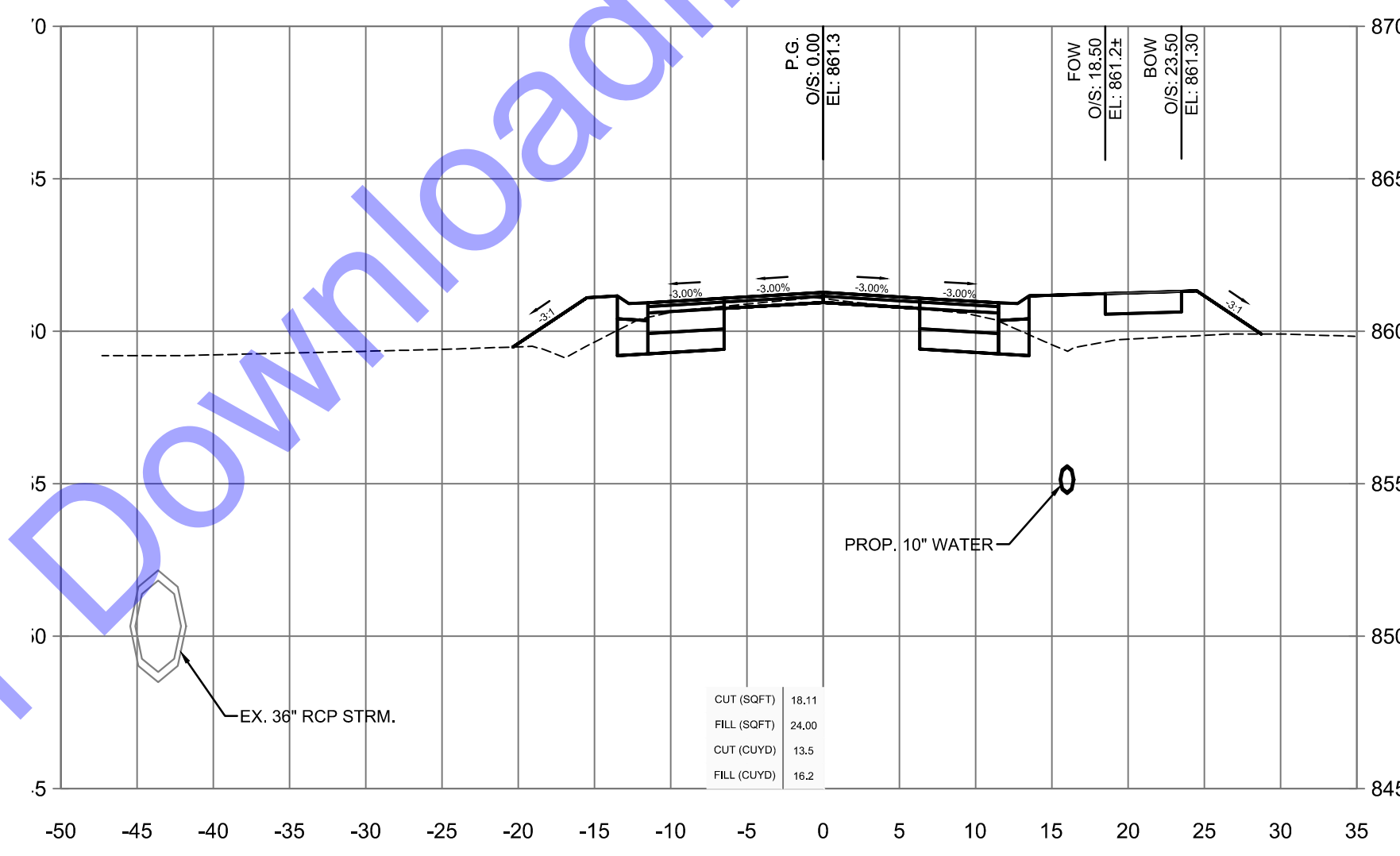
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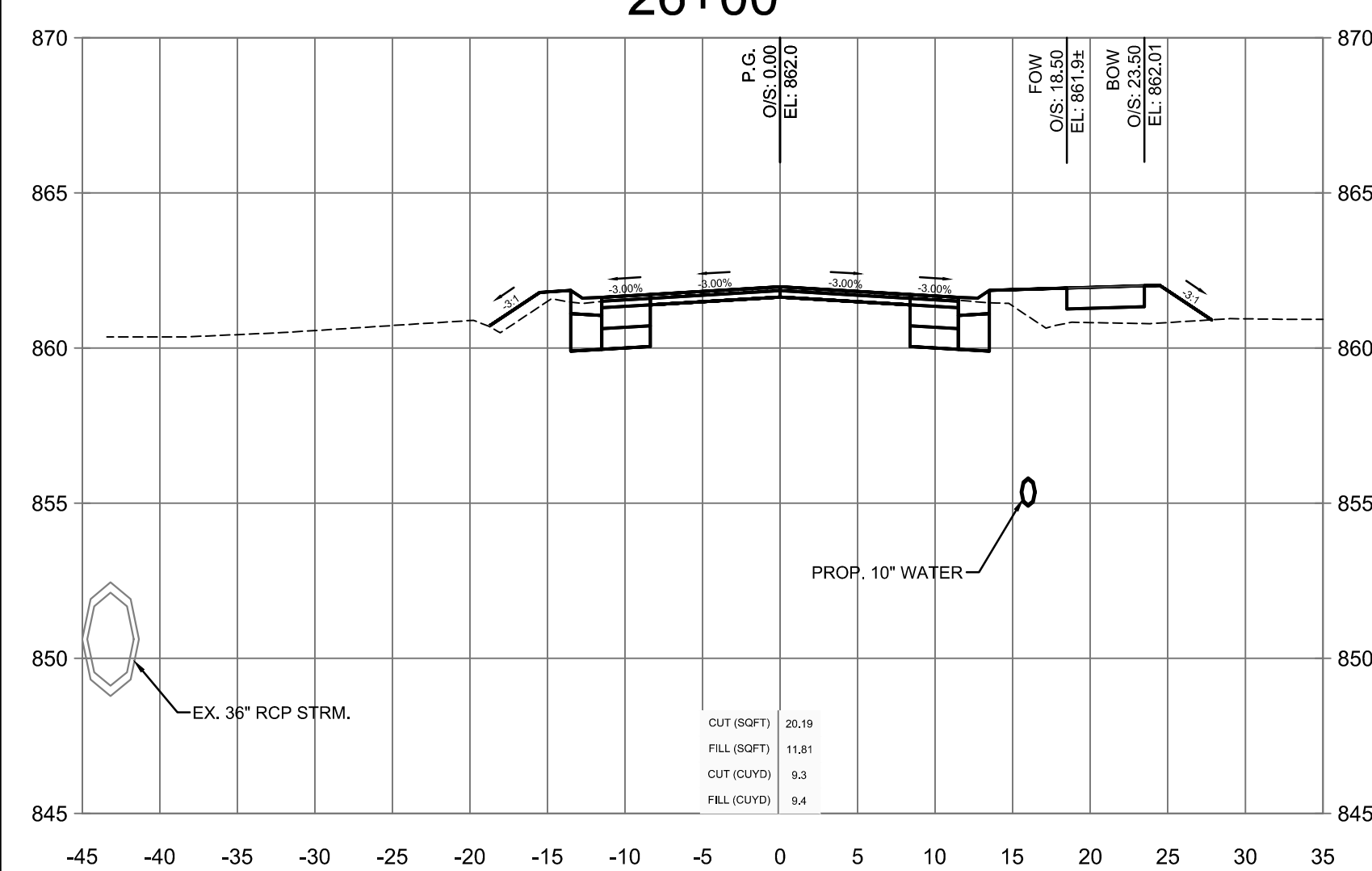
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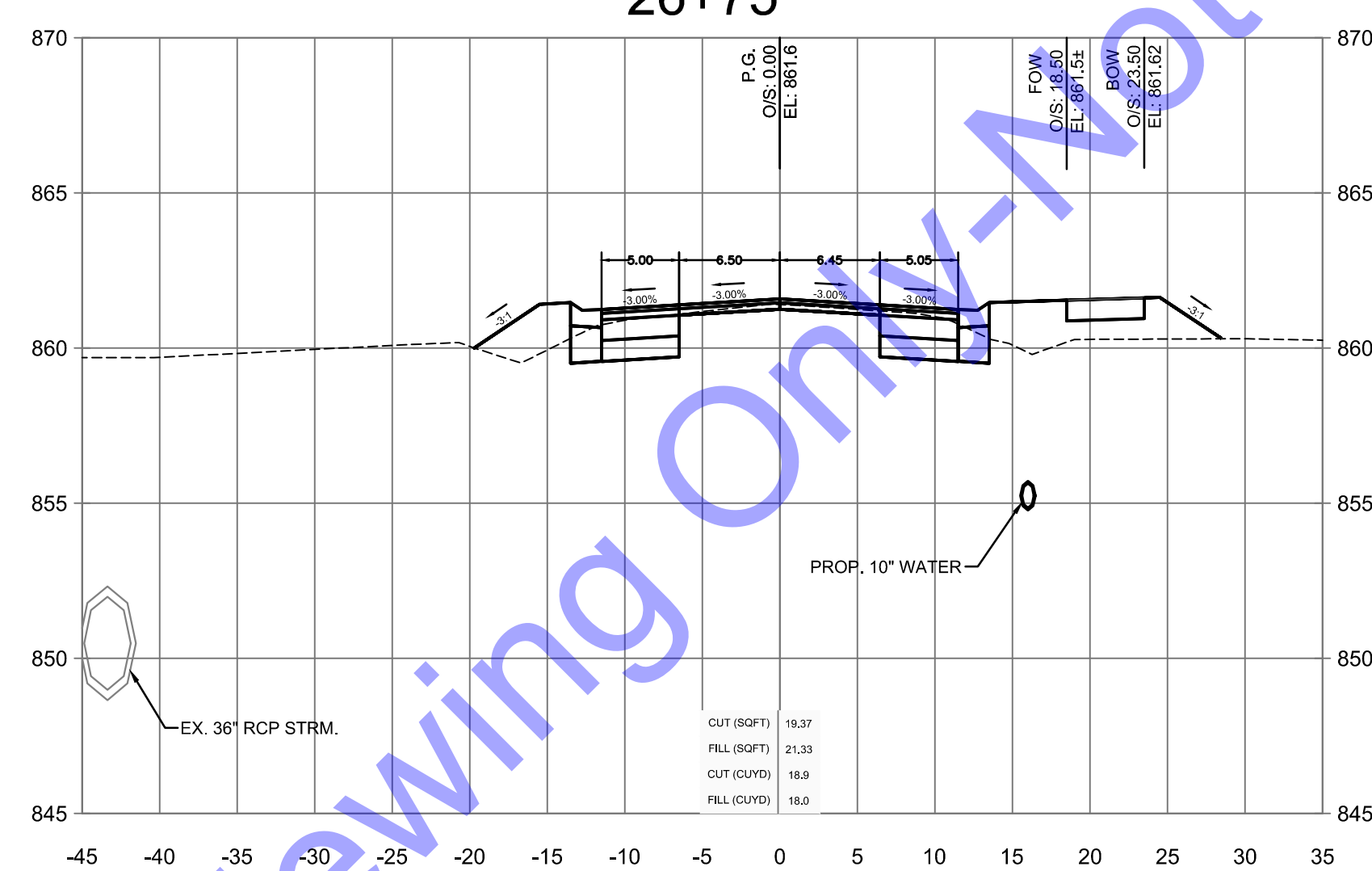
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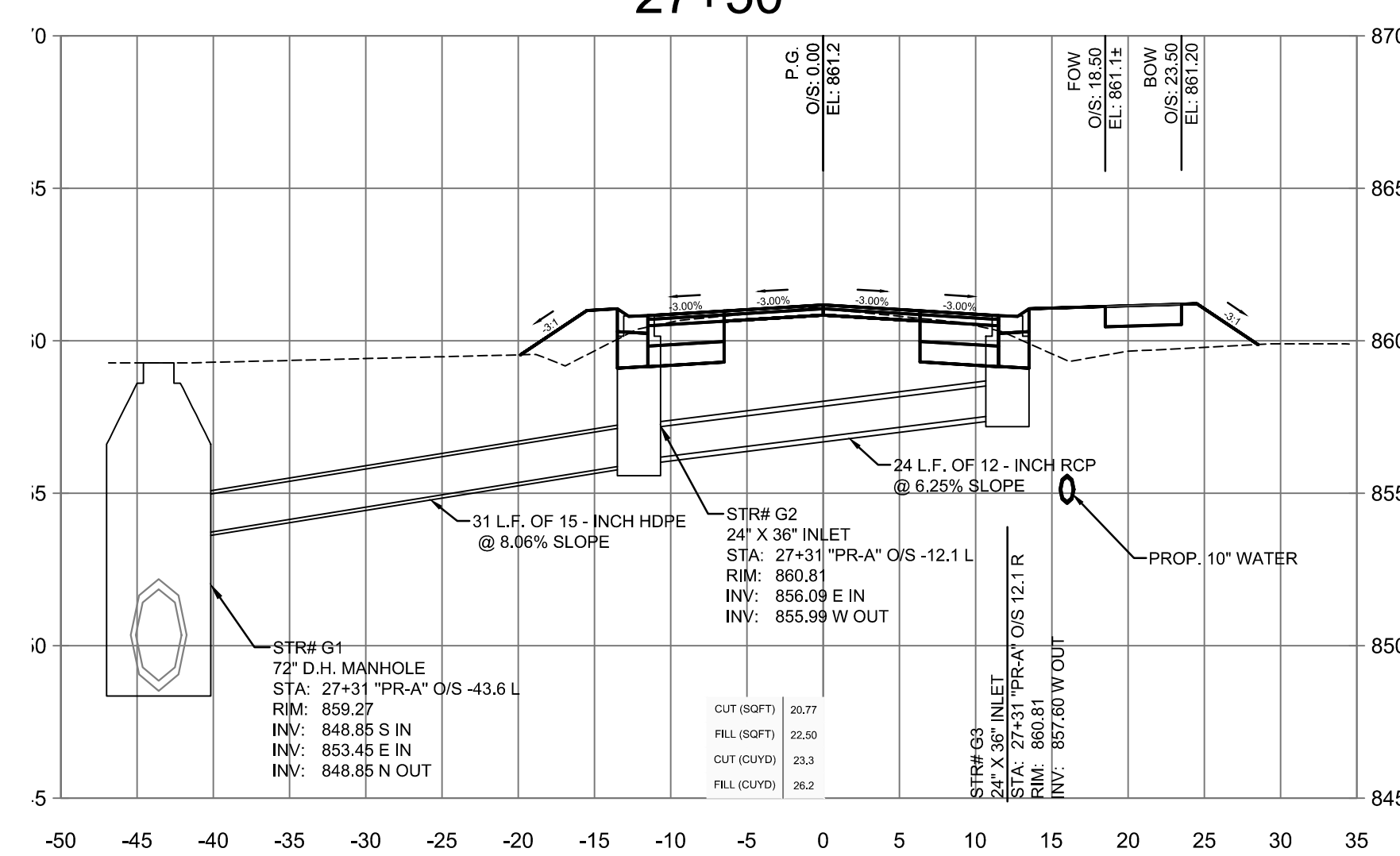
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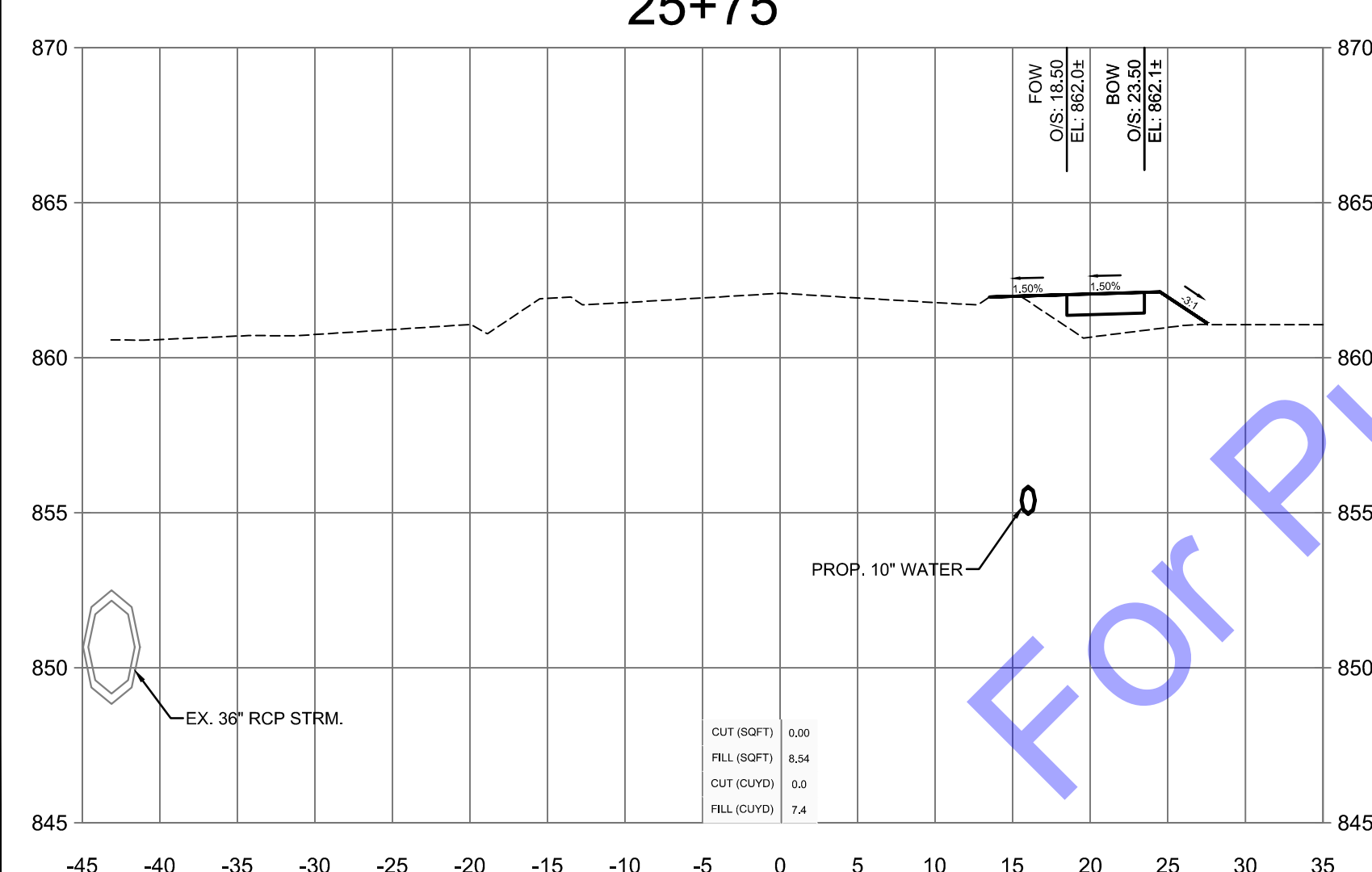
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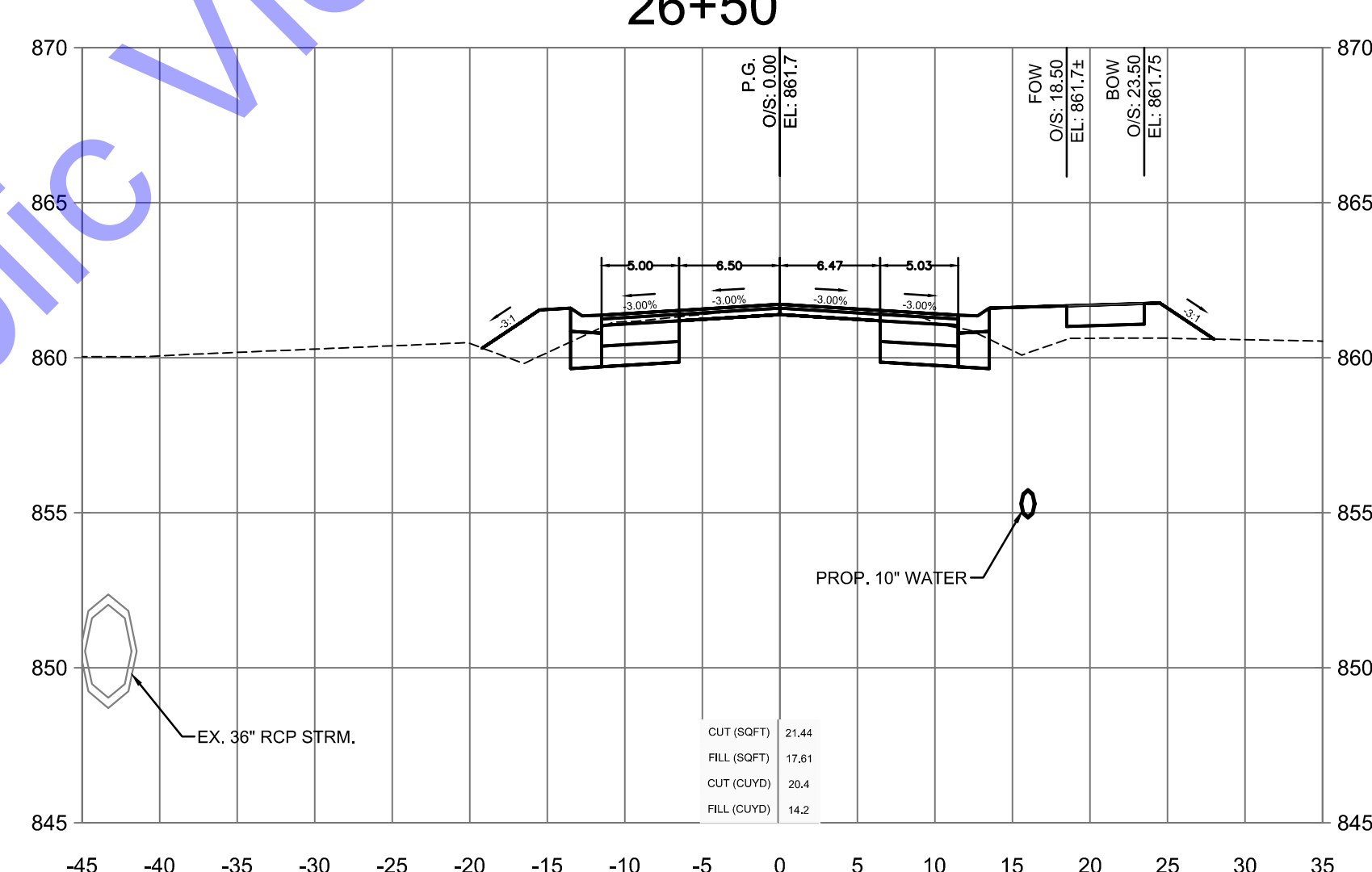
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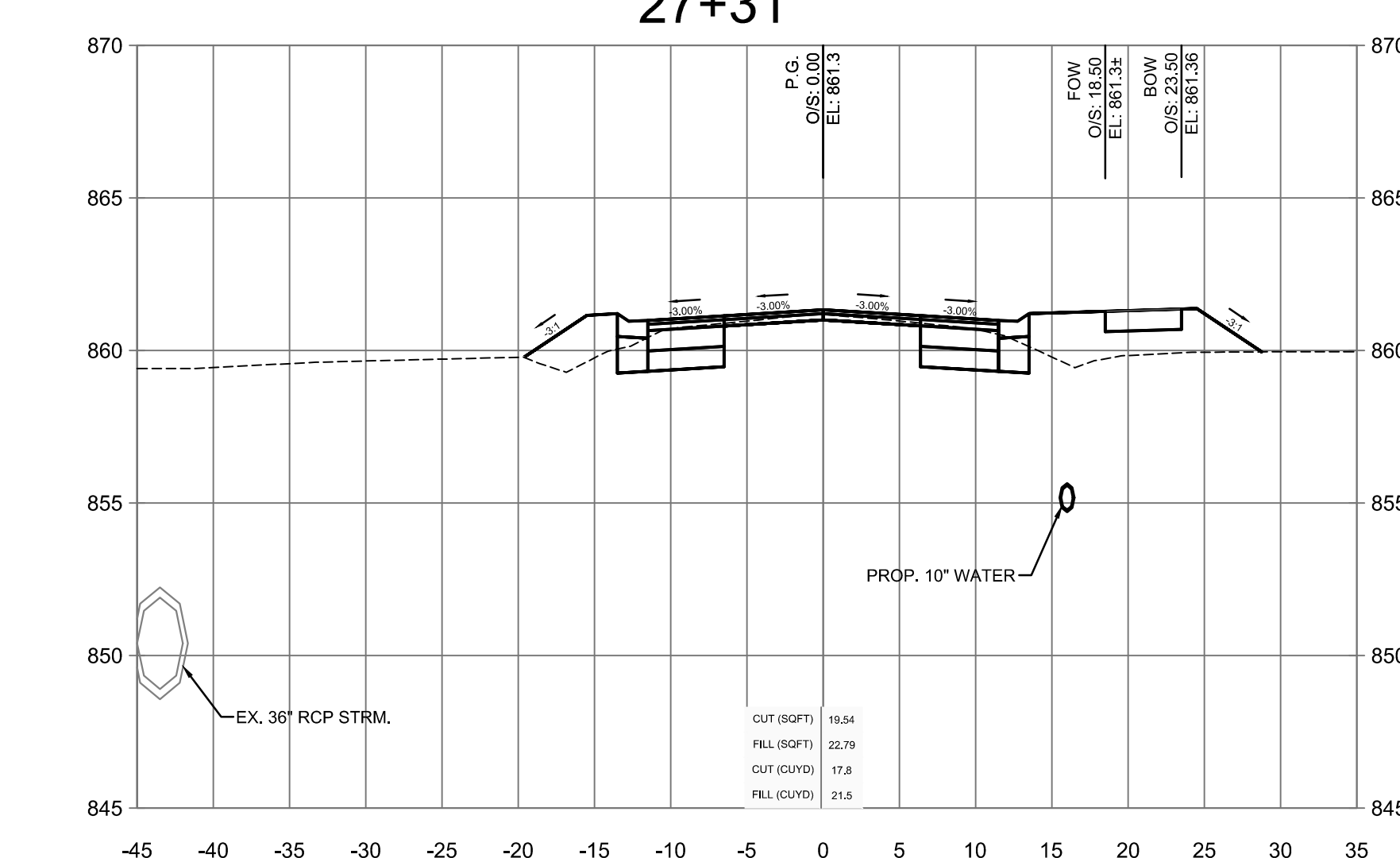
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25+50



26+25



27+00

CROSS SECTION LEGEND

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	EXISTING GRADE

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Professional Engineer Seal for Benjamin H. Adams, No. 19700508, State of Indiana.  
 Signature: Benjamin H. Adams, Date: 1-6-2025

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 CR S 150 W IMPROVEMENTS - PHASE 2  
 CROSS SECTIONS - LINE 'PR-A'

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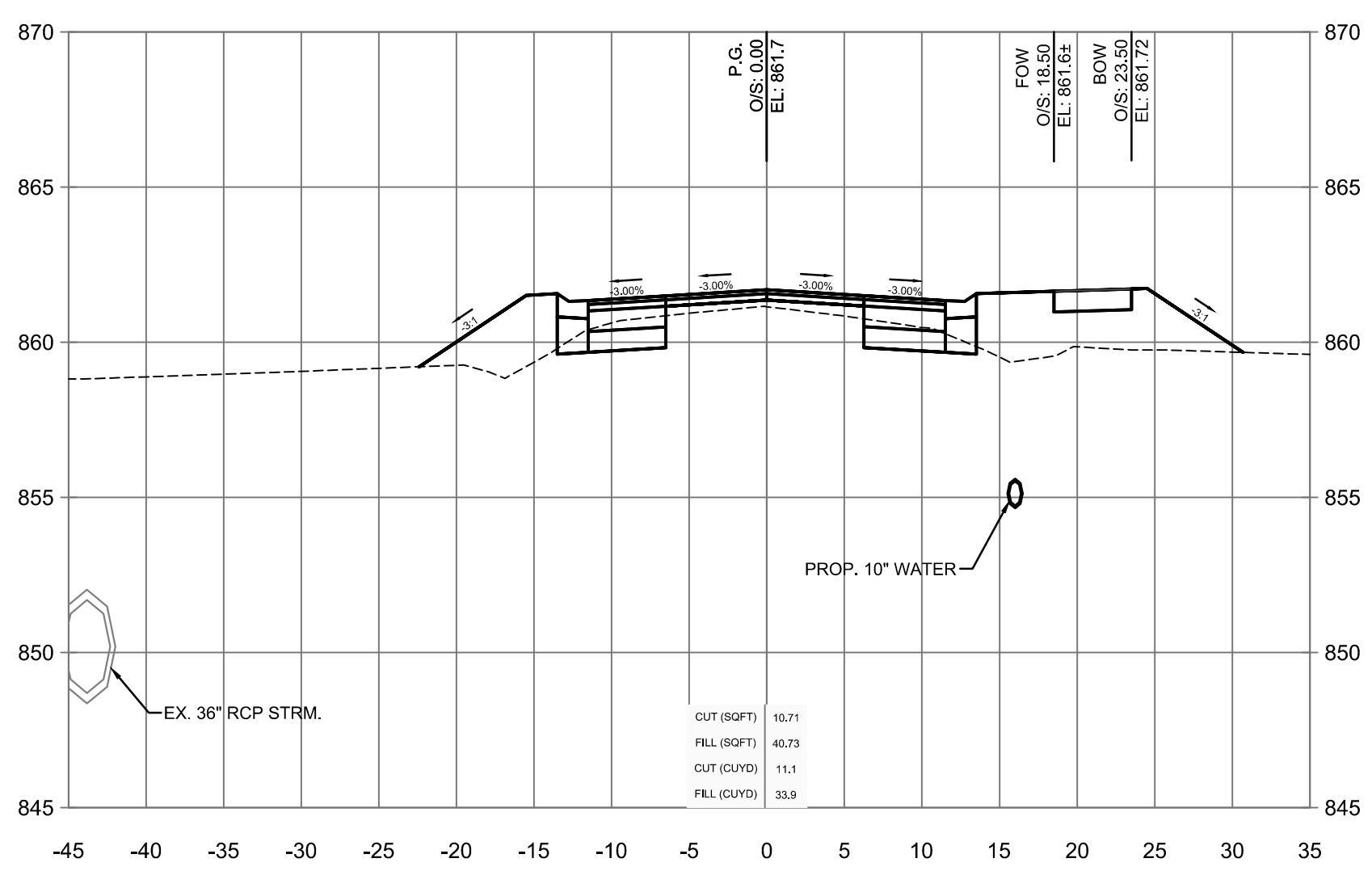
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By:	NJS	

Designed By:	Drawn By:	Checked By:
NJS	EJK	BA

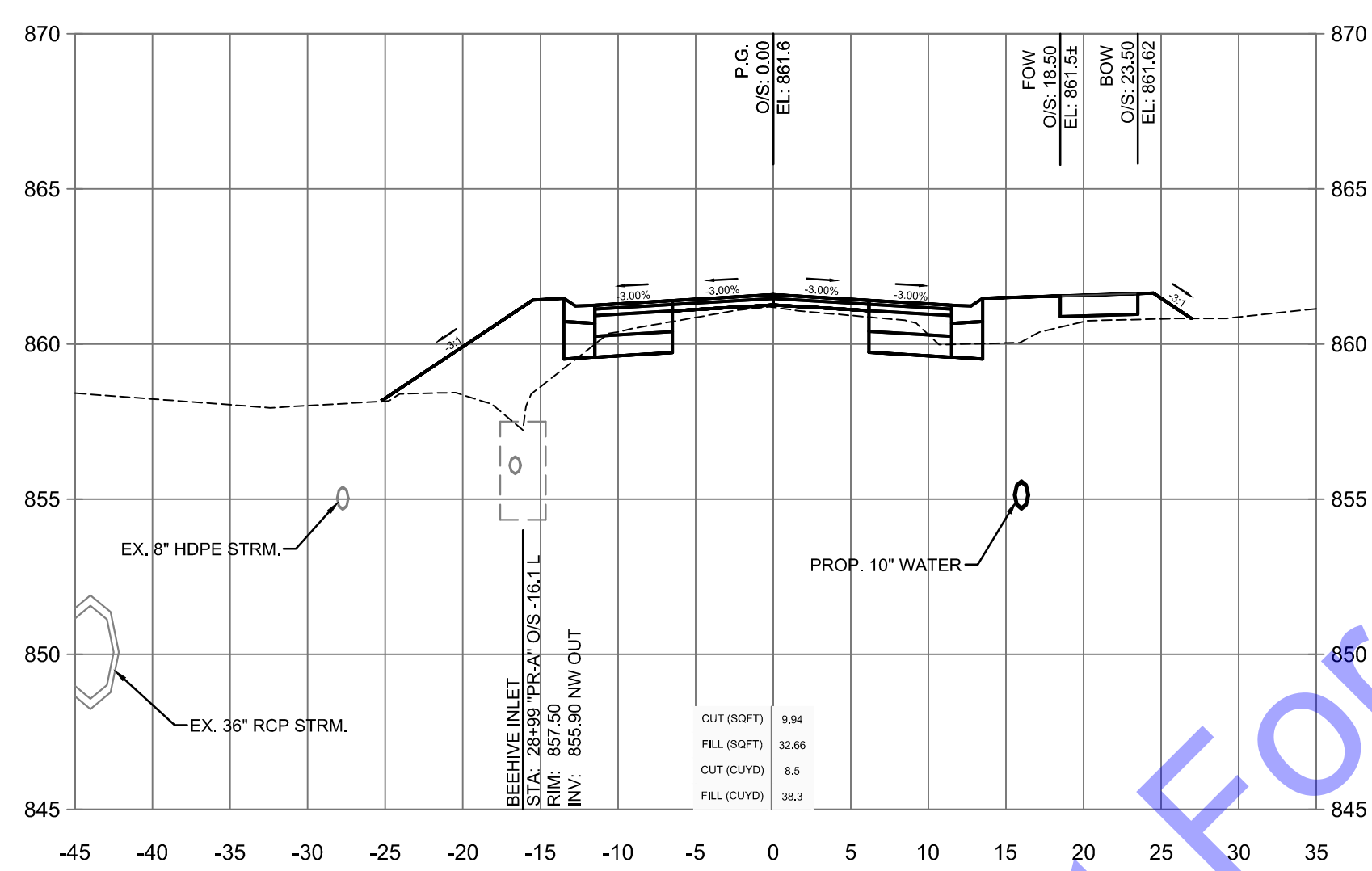
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12/18/2024	H20124	AS SHOWN

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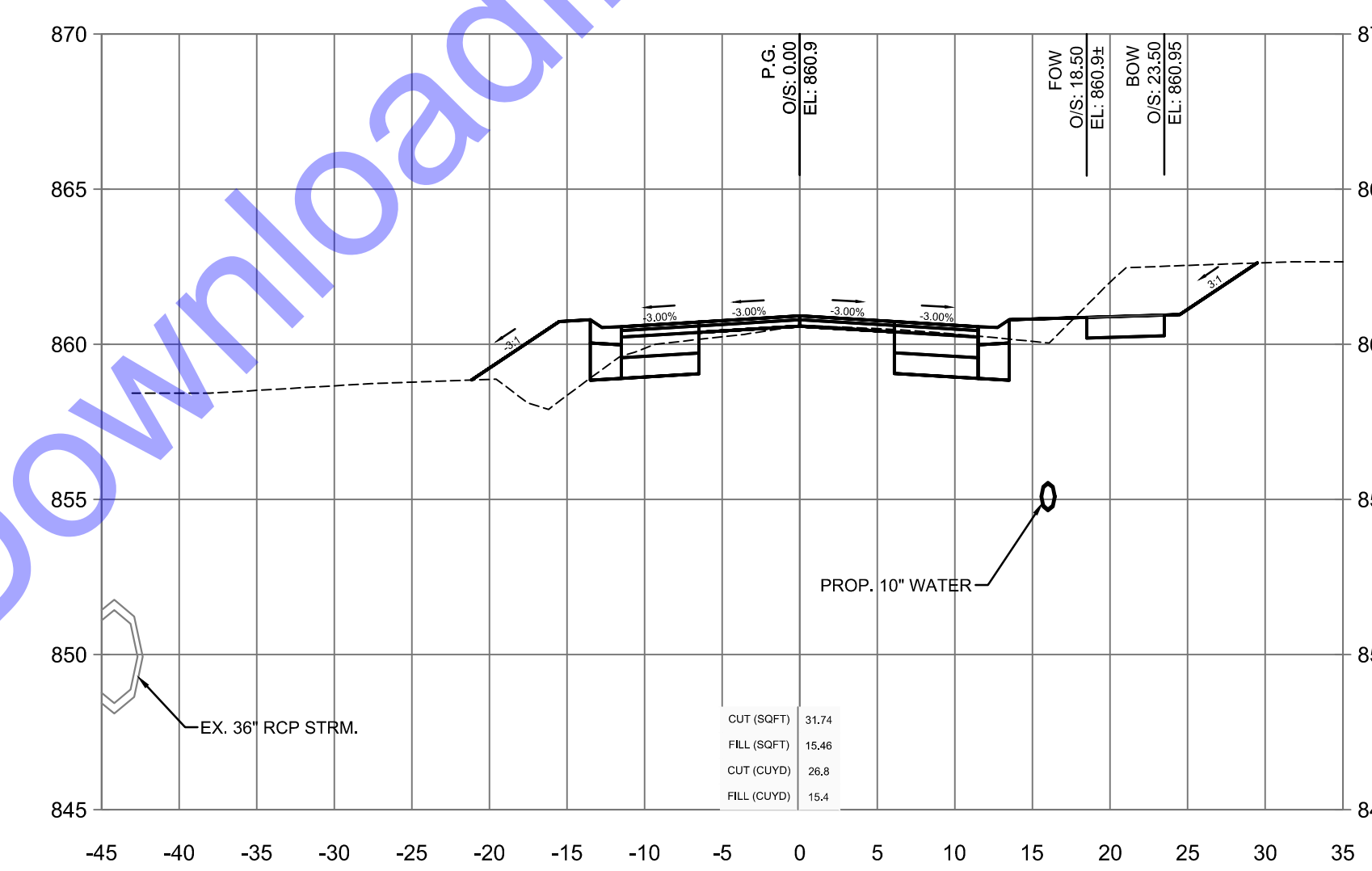
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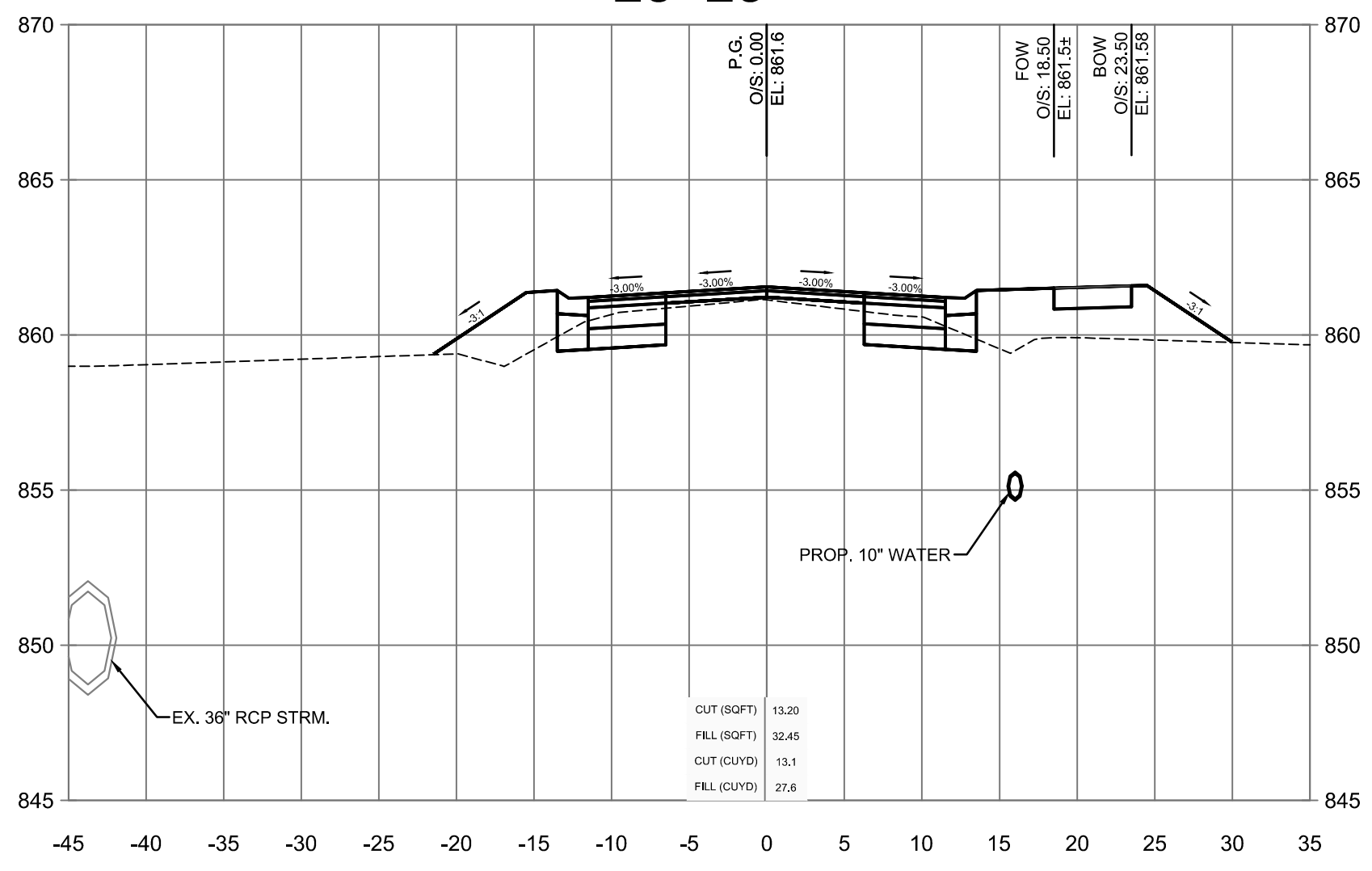
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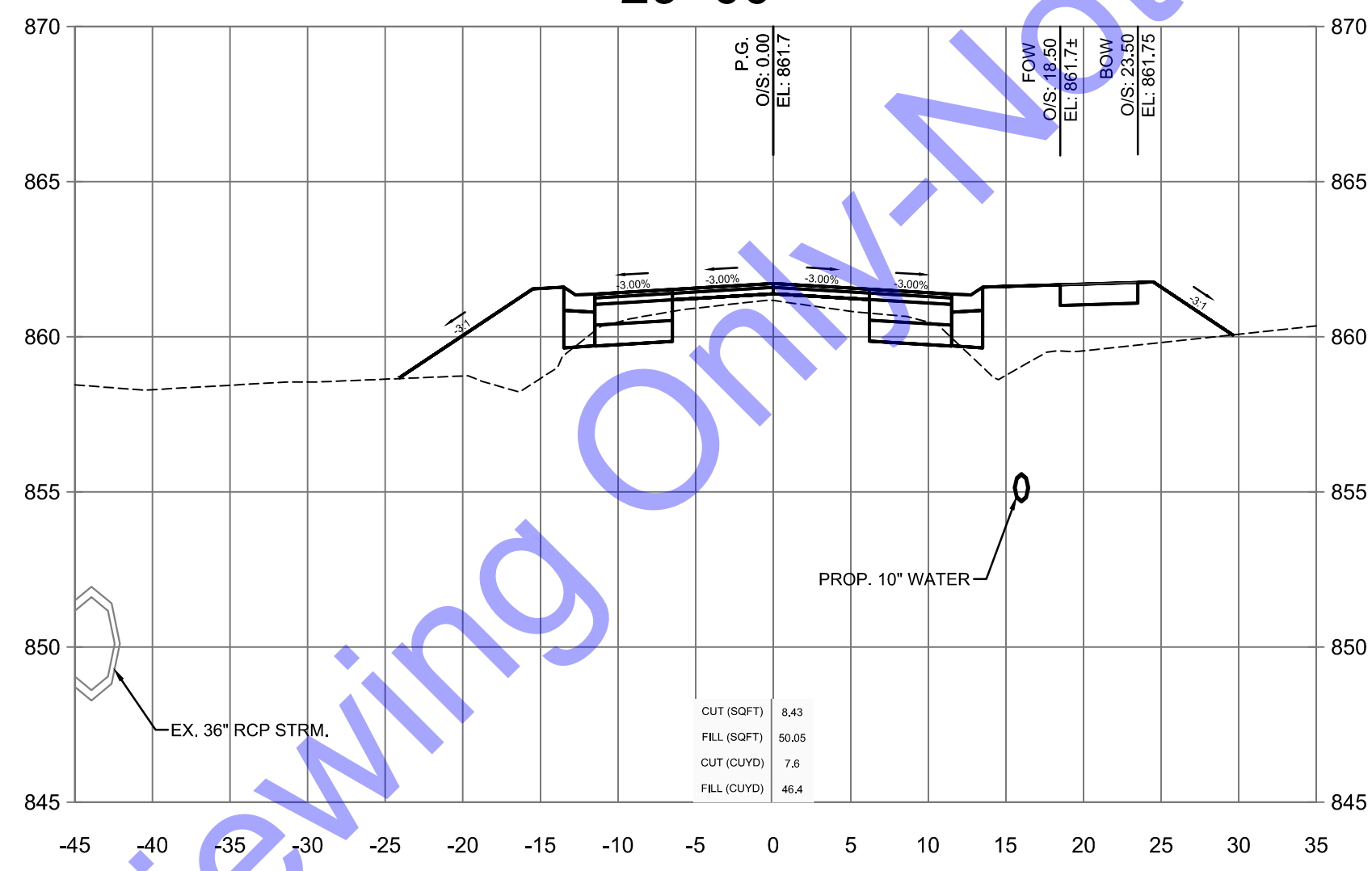
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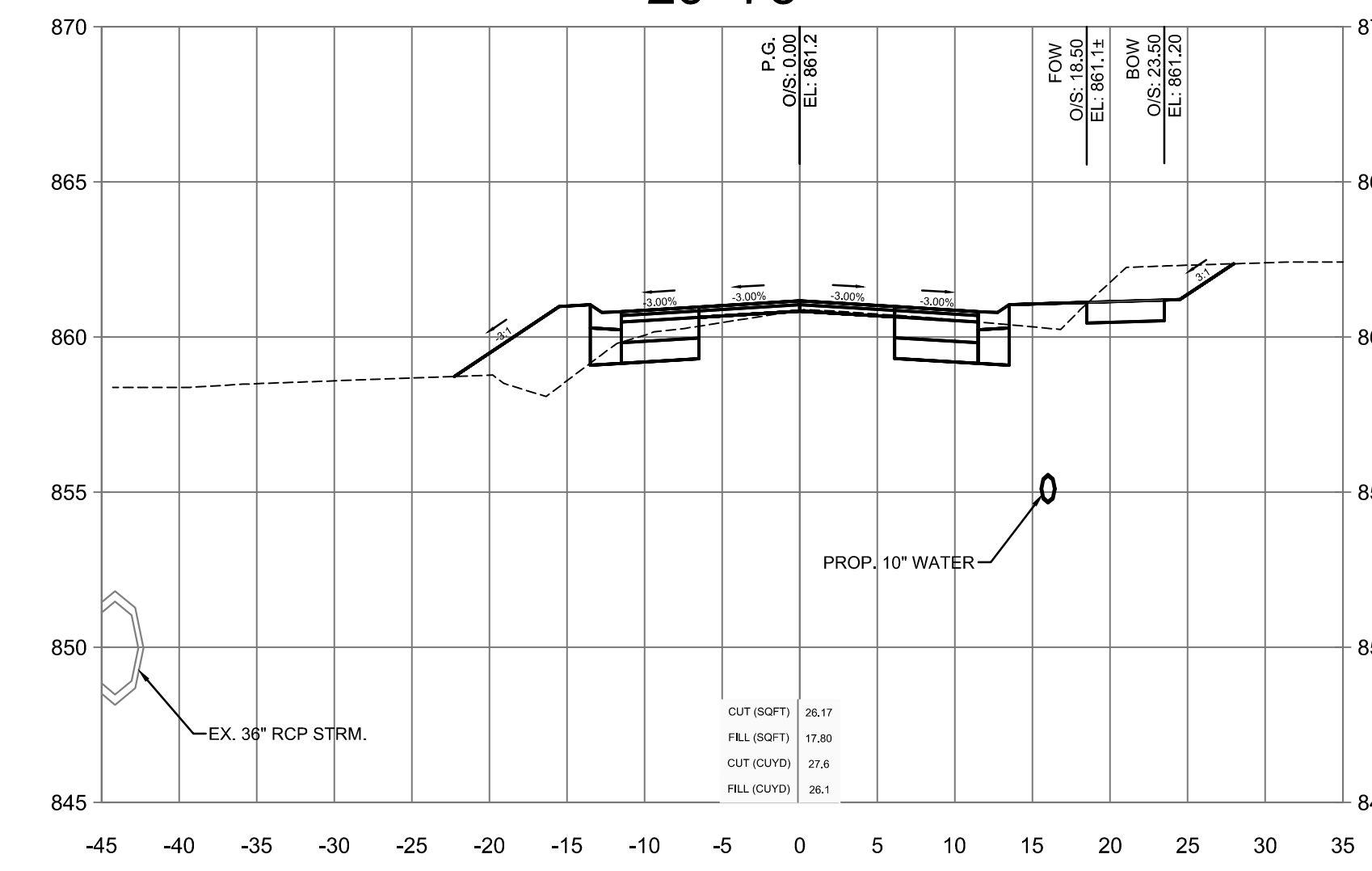
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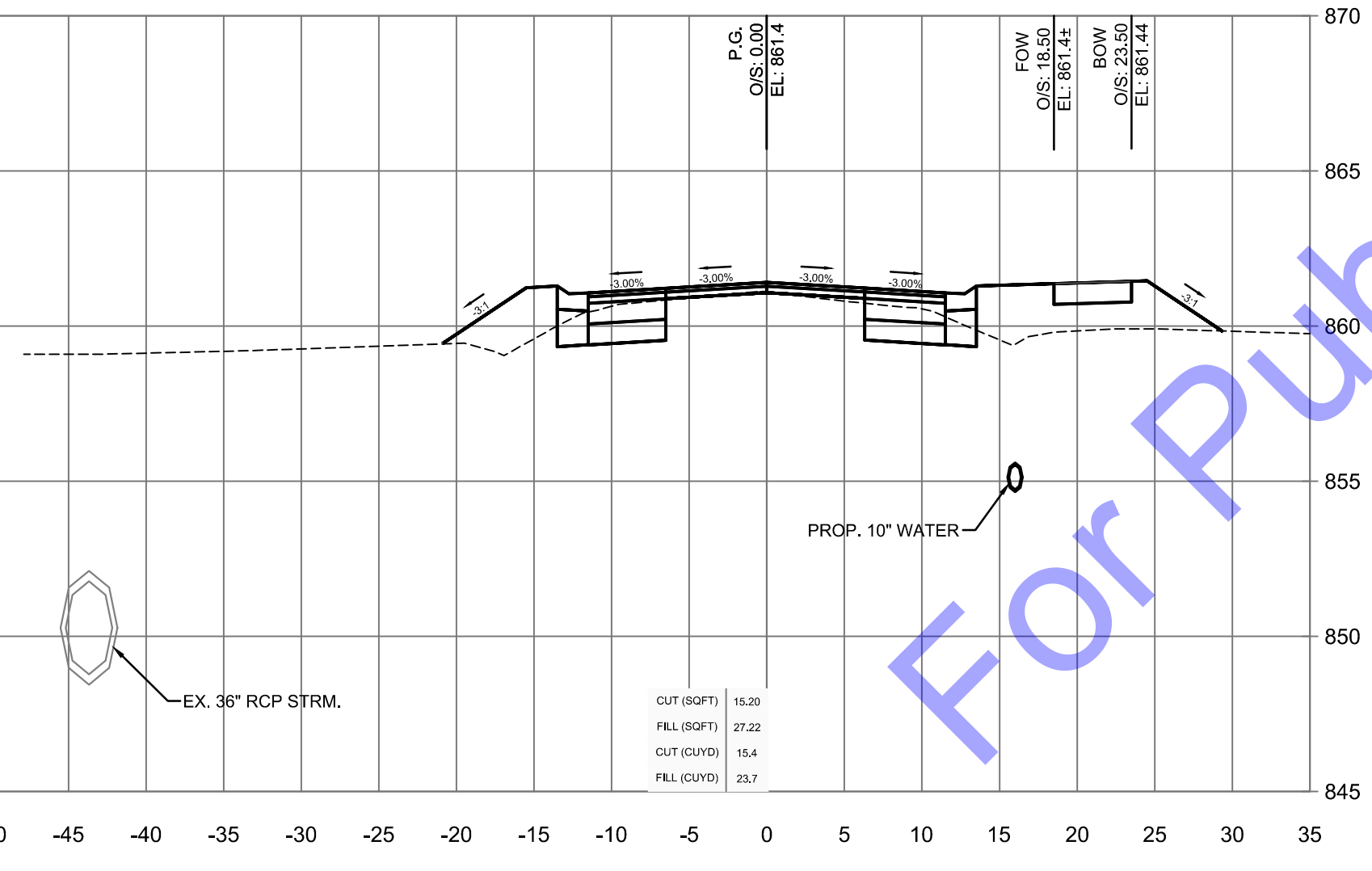
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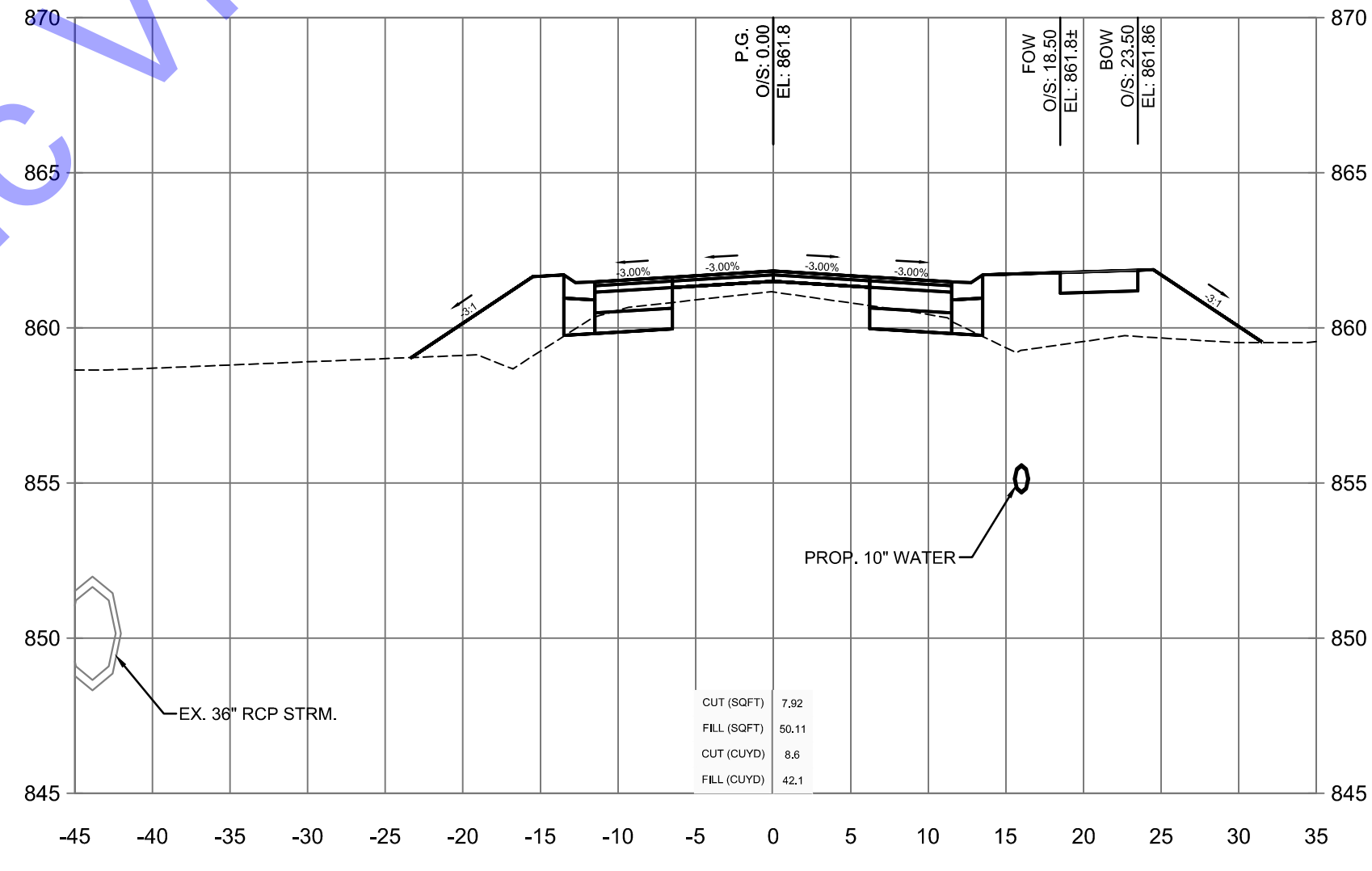
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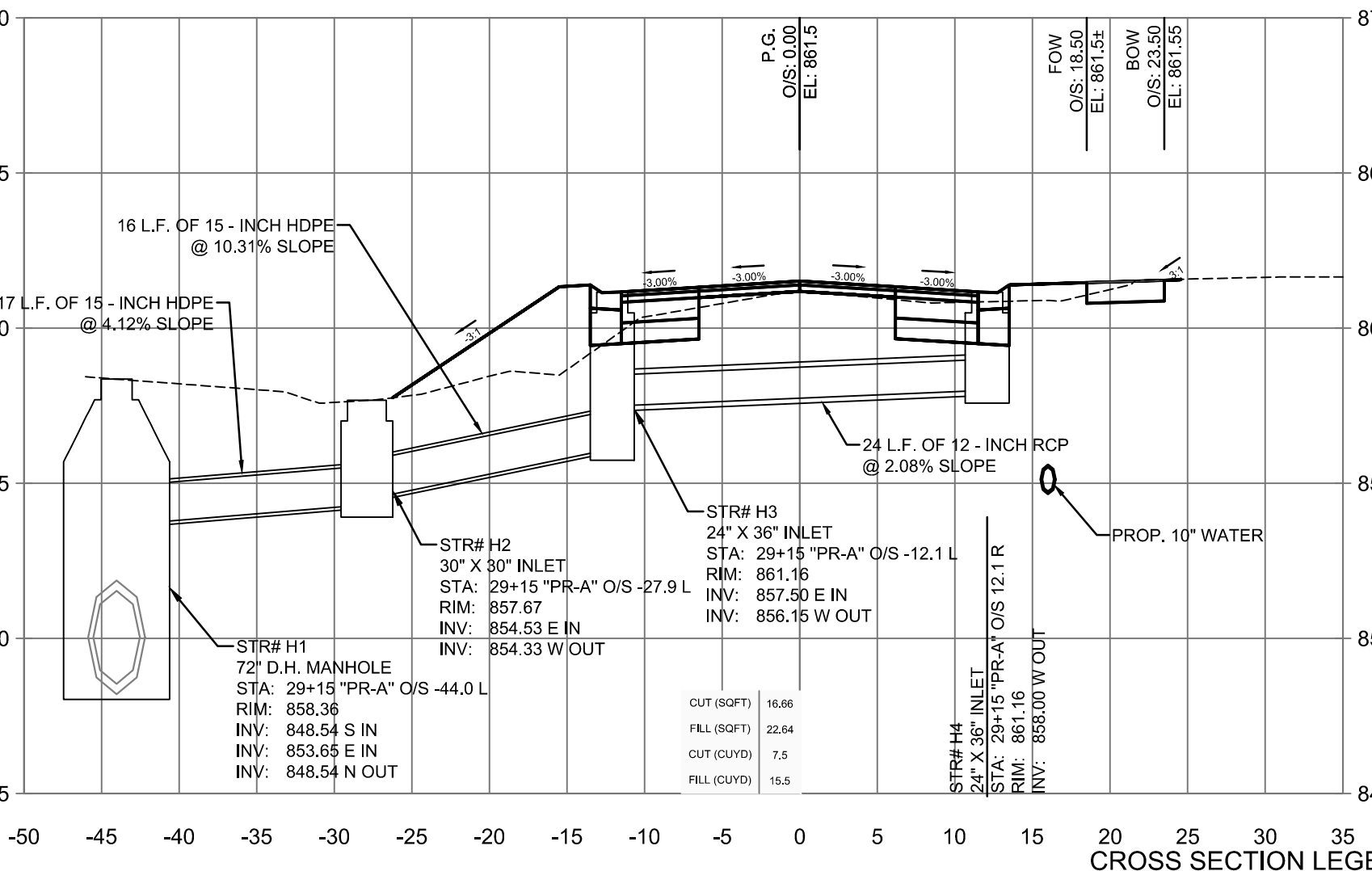
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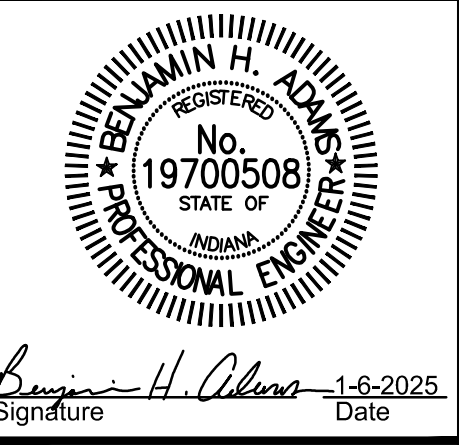
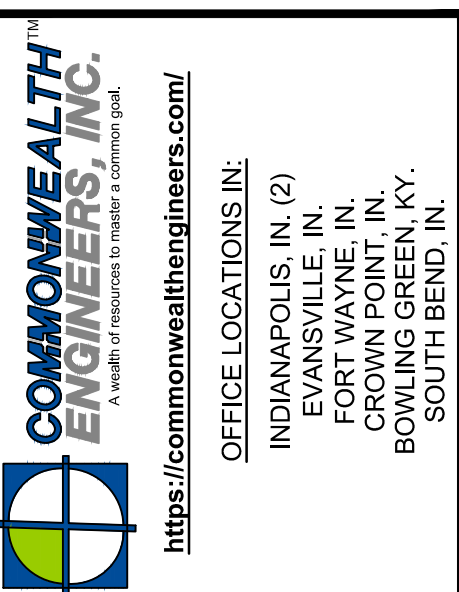
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29+15

CROSS SECTION LEGEND  
 ——— FINISH GRADE  
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Signature: Benjamin H. Adams Date: 1-6-2025

CITY OF BERNE,  
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CROSS SECTIONS - LINE 'PR-A'

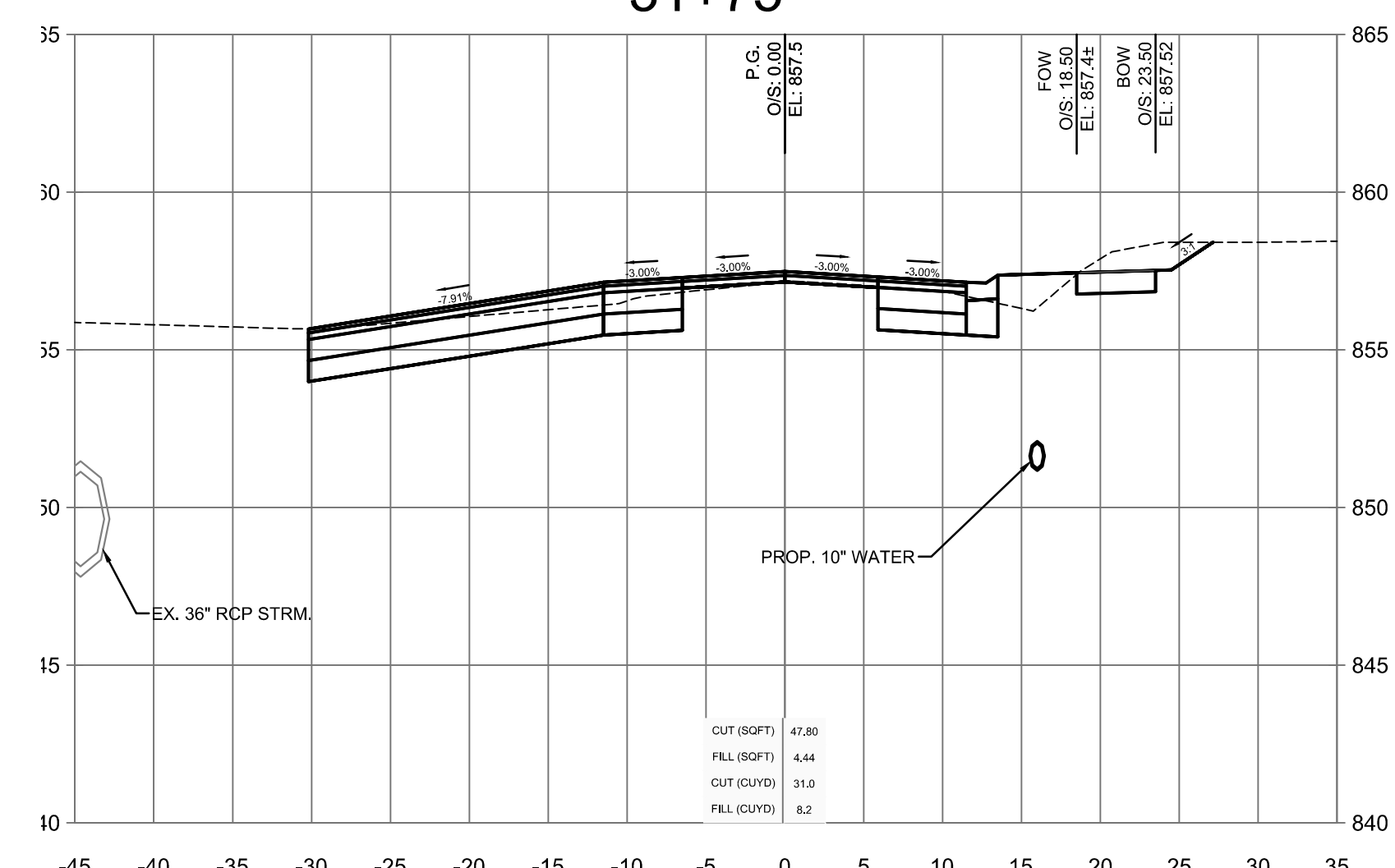
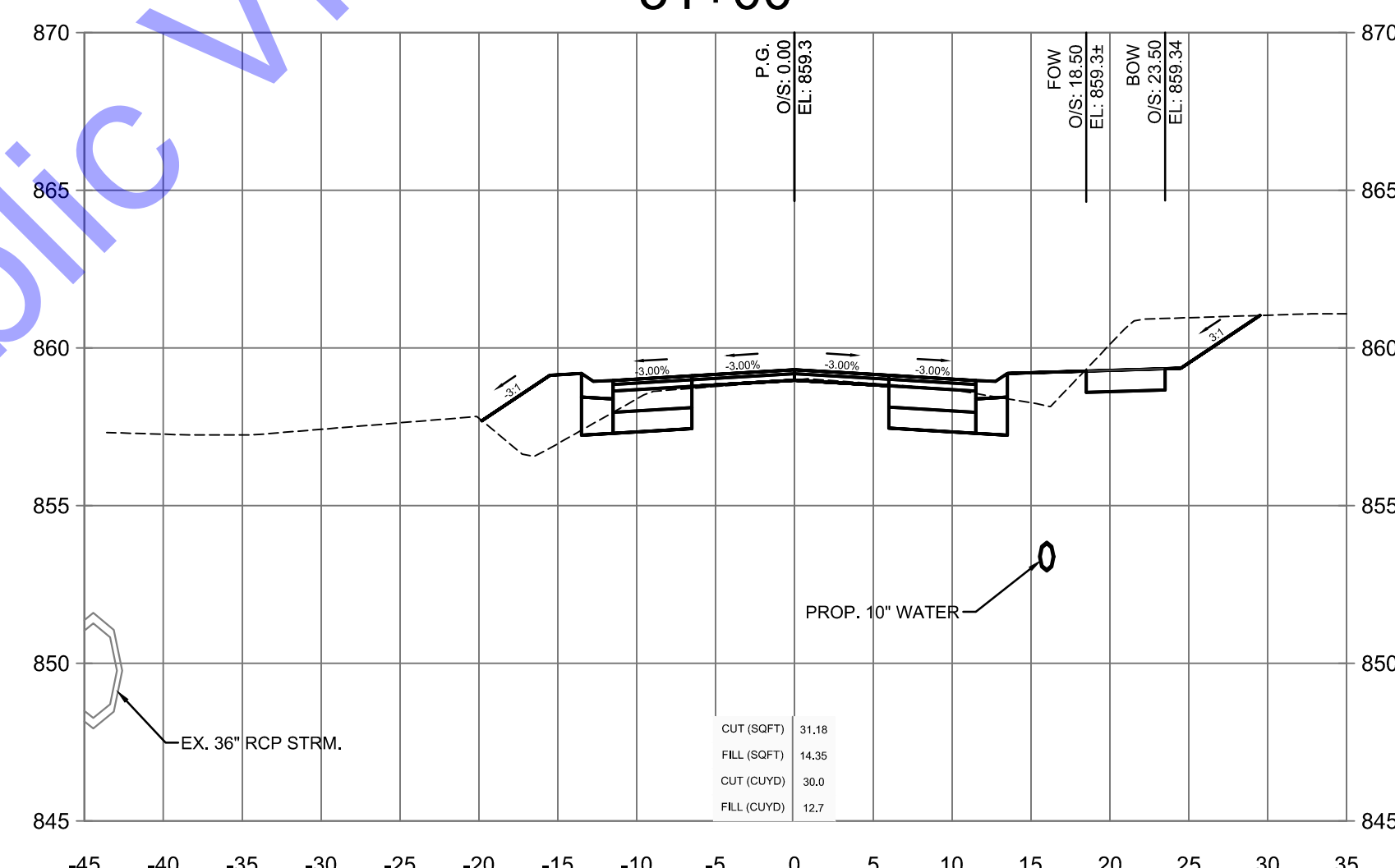
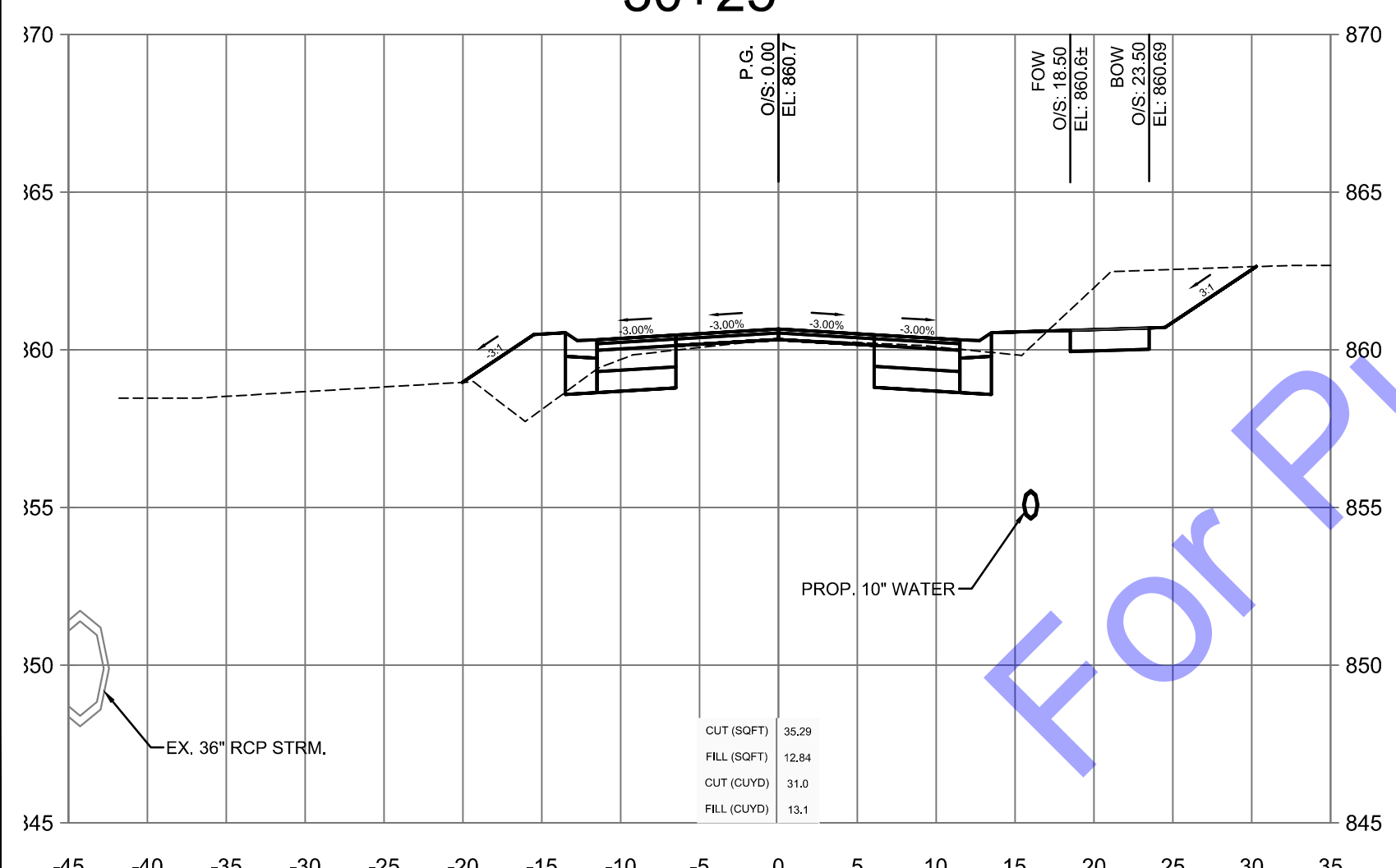
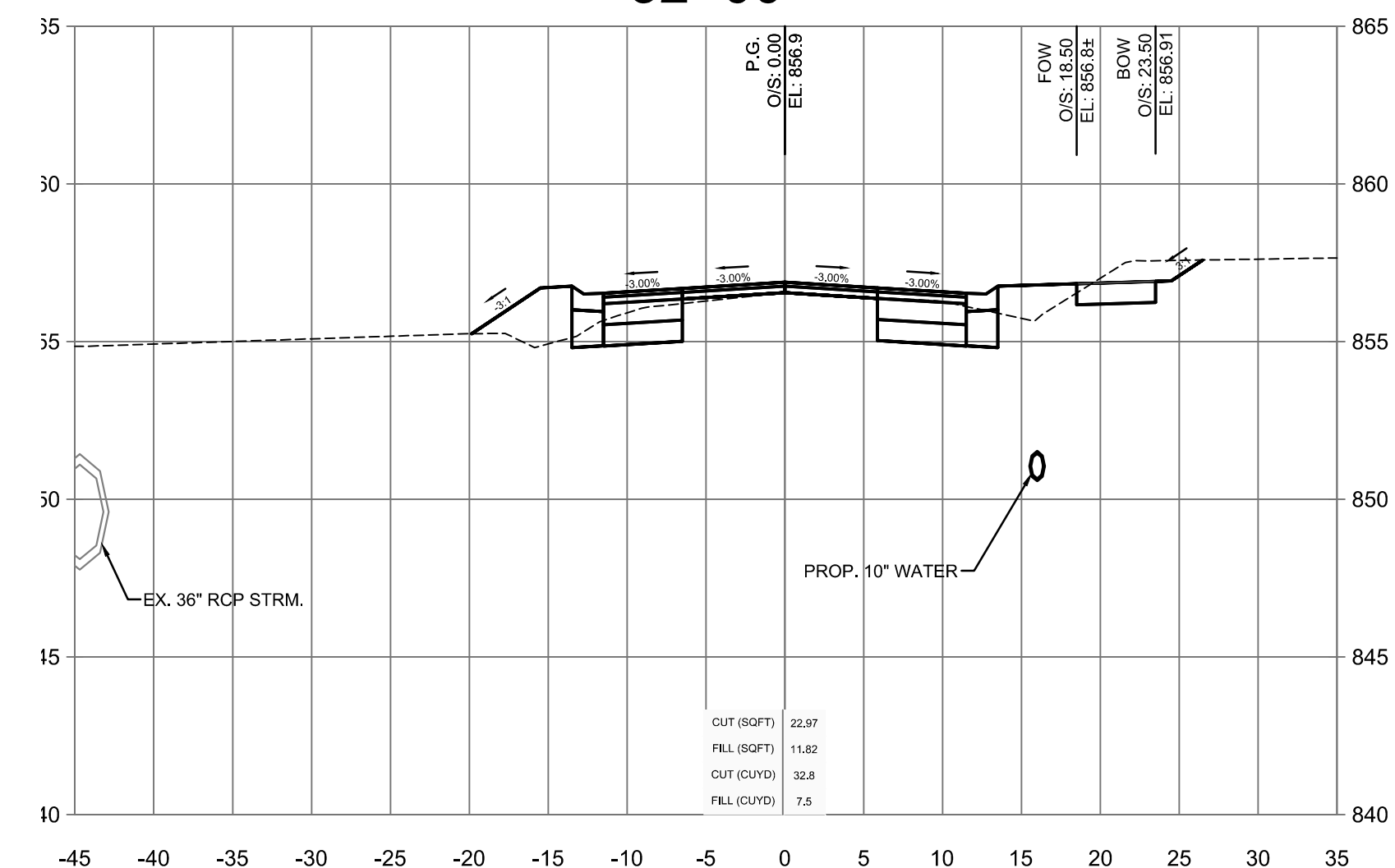
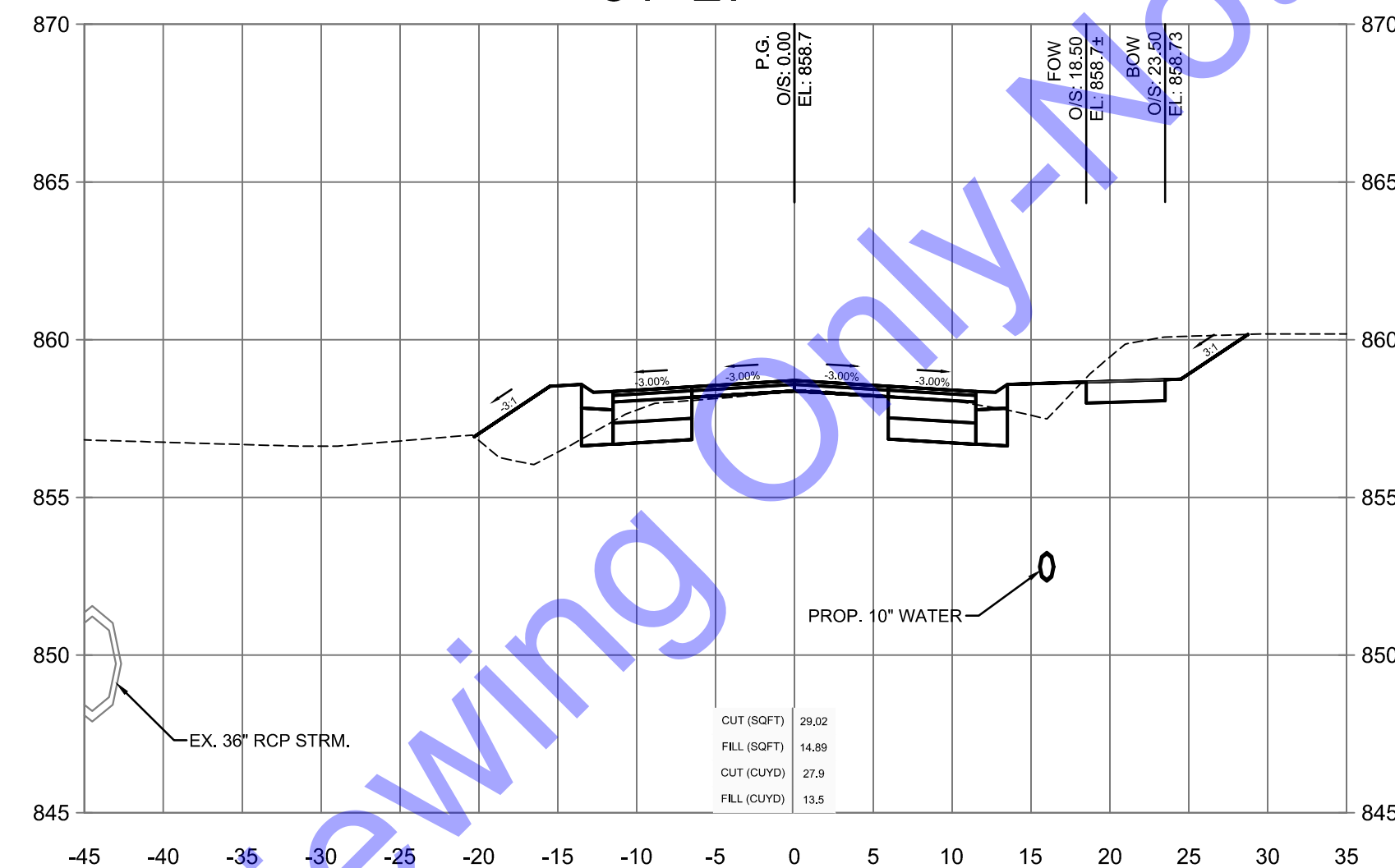
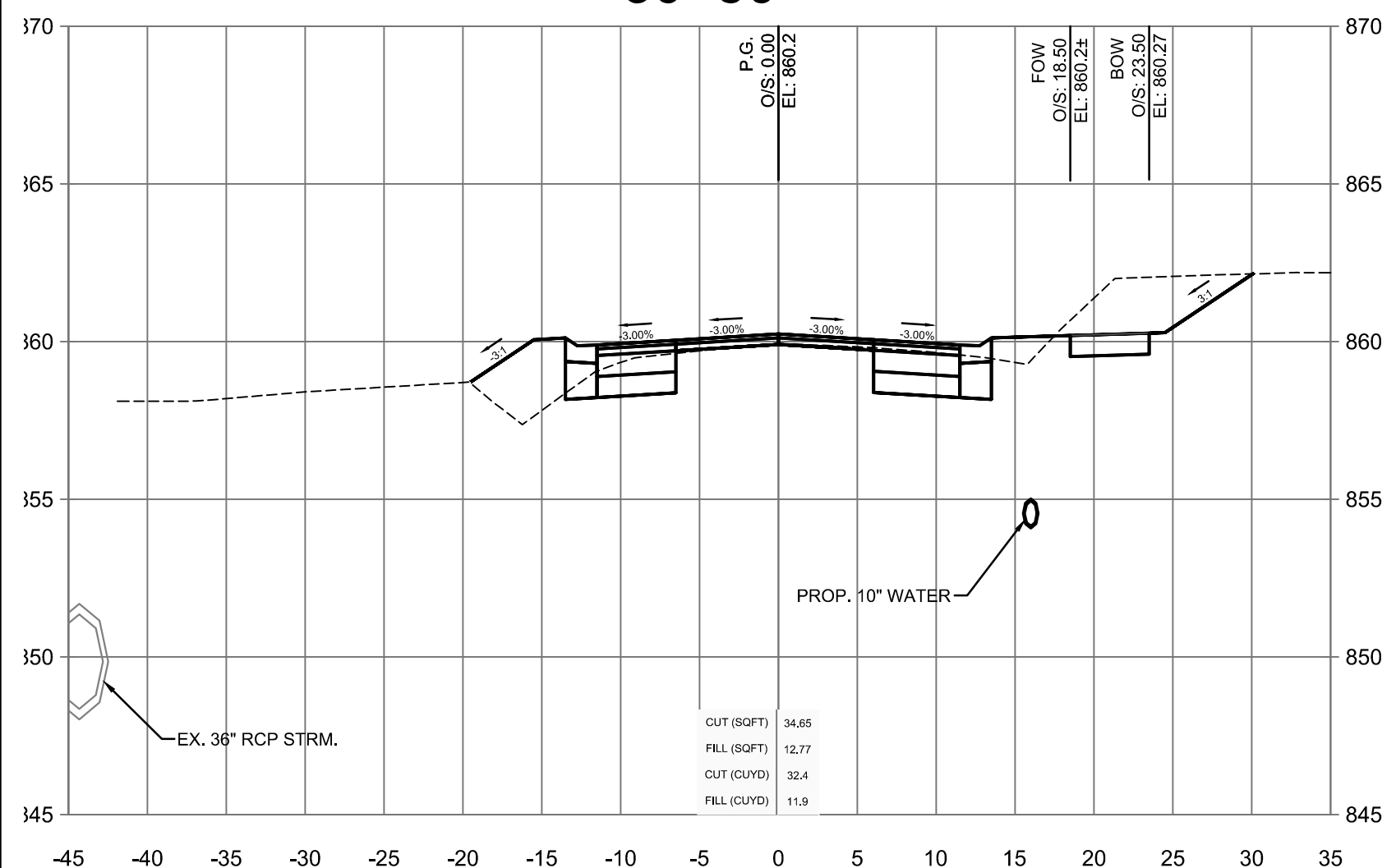
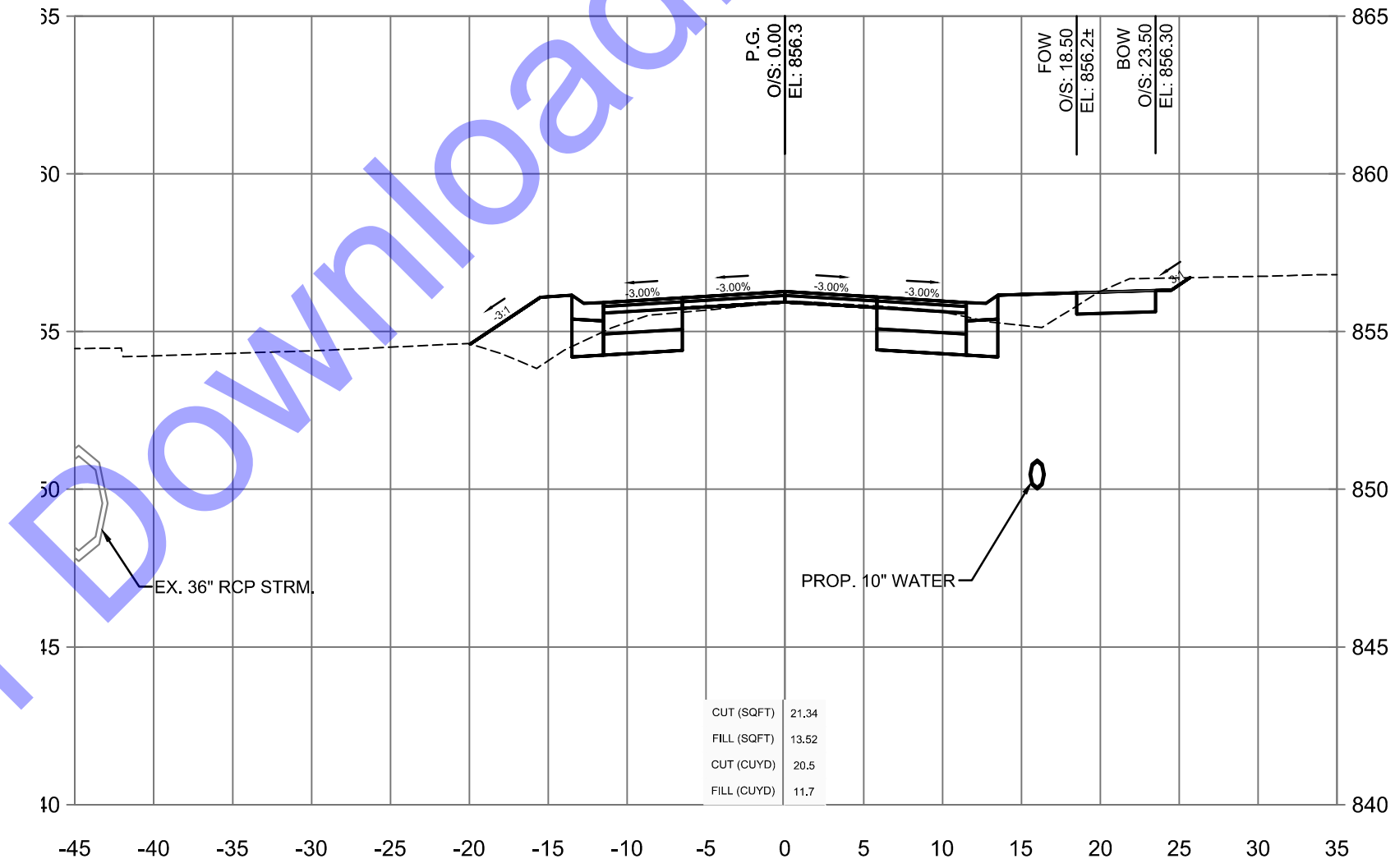
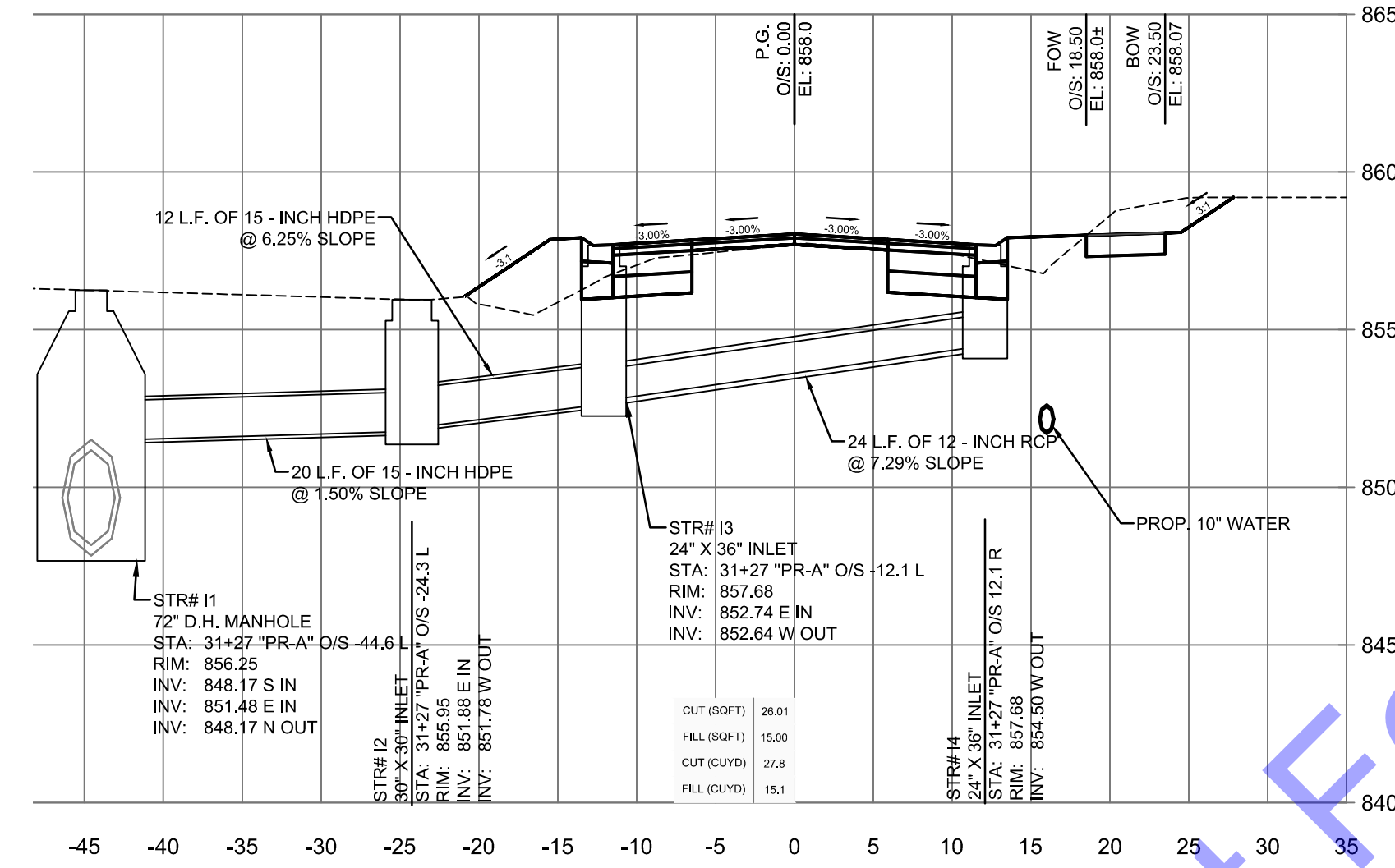
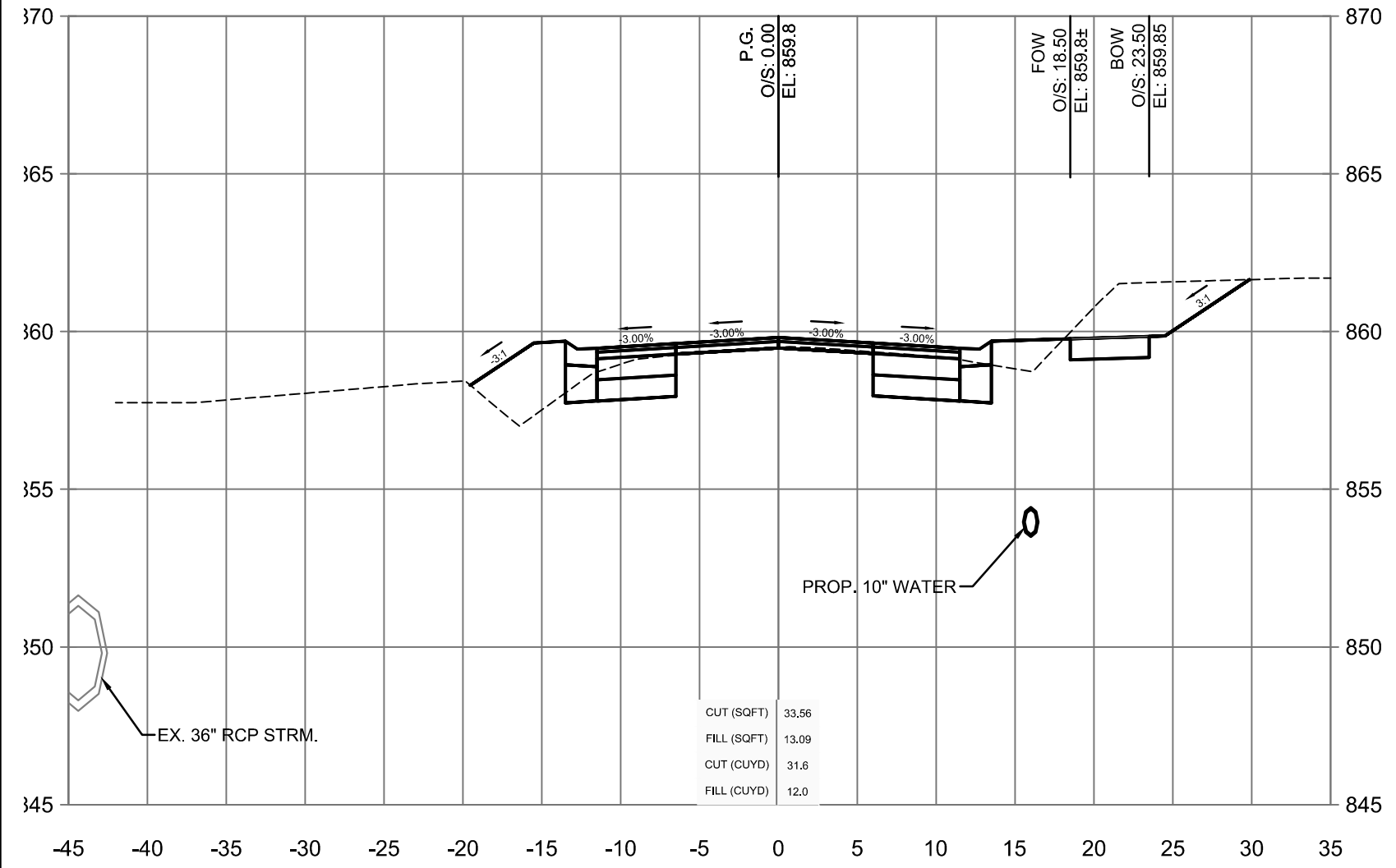
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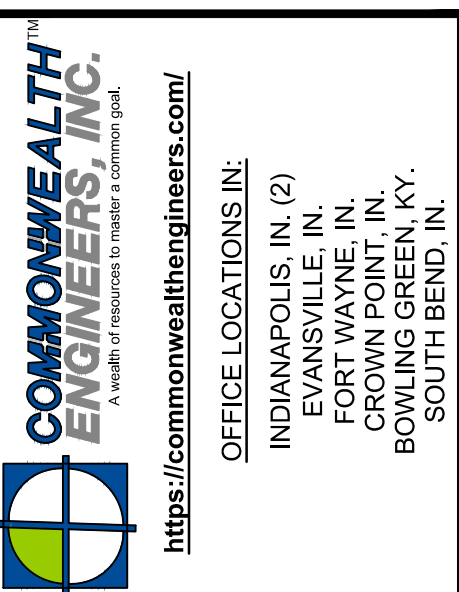
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 Issue Date: 12/18/2024 Project No: H20124 Scale: AS SHOWN

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 ——— FINISH GRADE      - - - - - EXISTING GRADE



Signature: Benjamin H. Adams  
 Date: 1-6-2025  
 No. 19700508  
 STATE OF INDIANA  
 PROFESSIONAL ENGINEER

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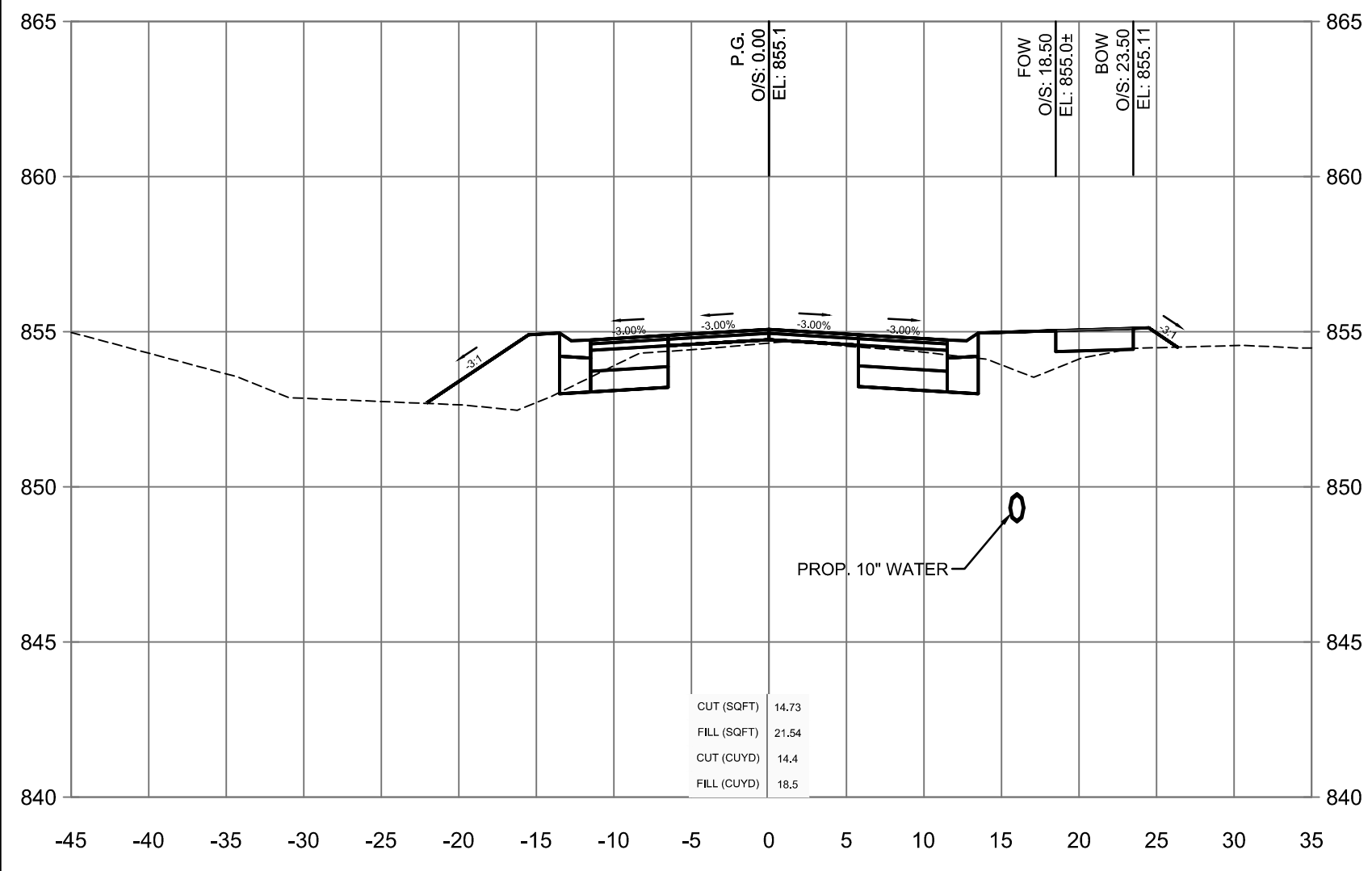
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 Scale: AS SHOWN

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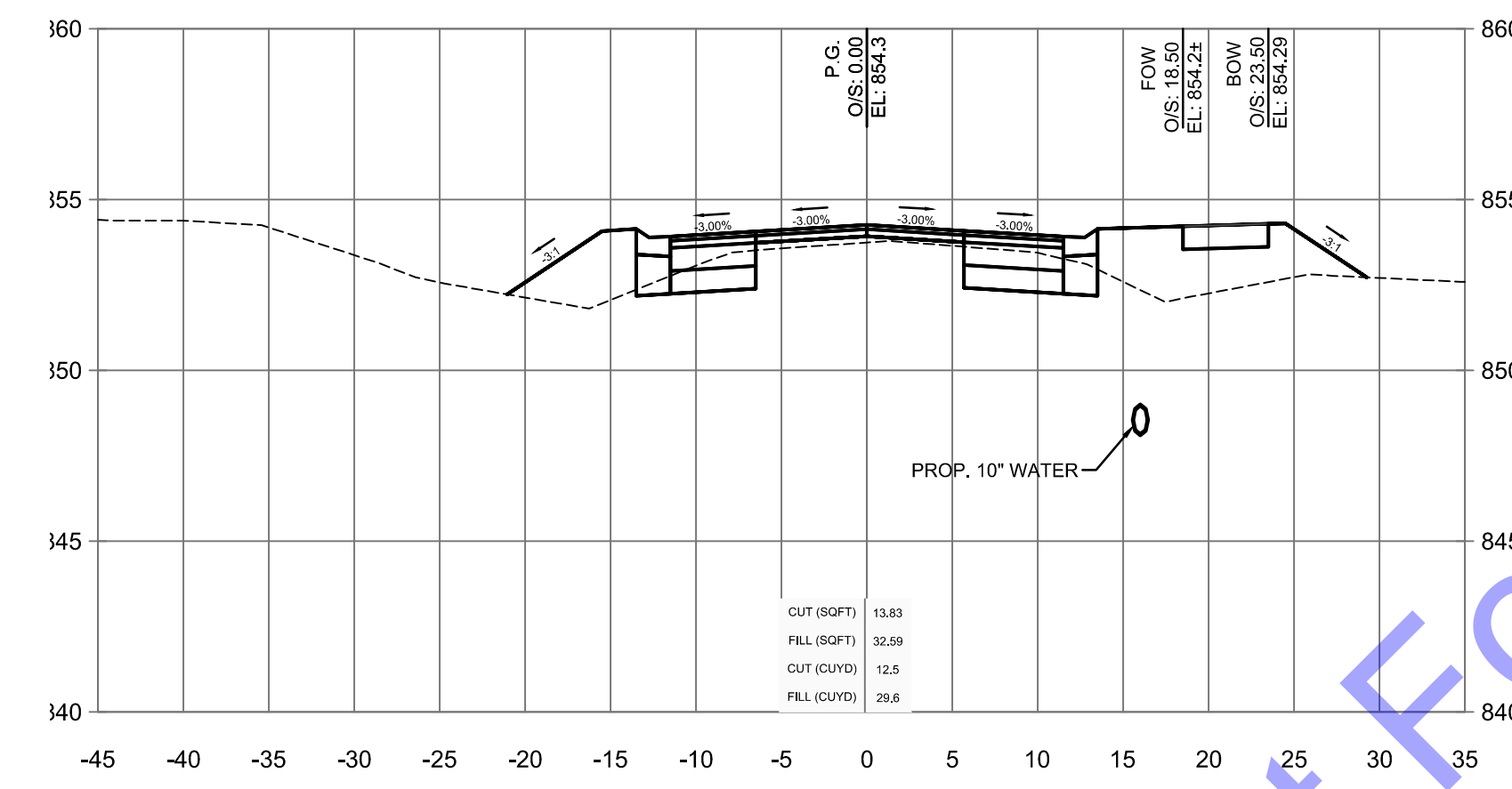
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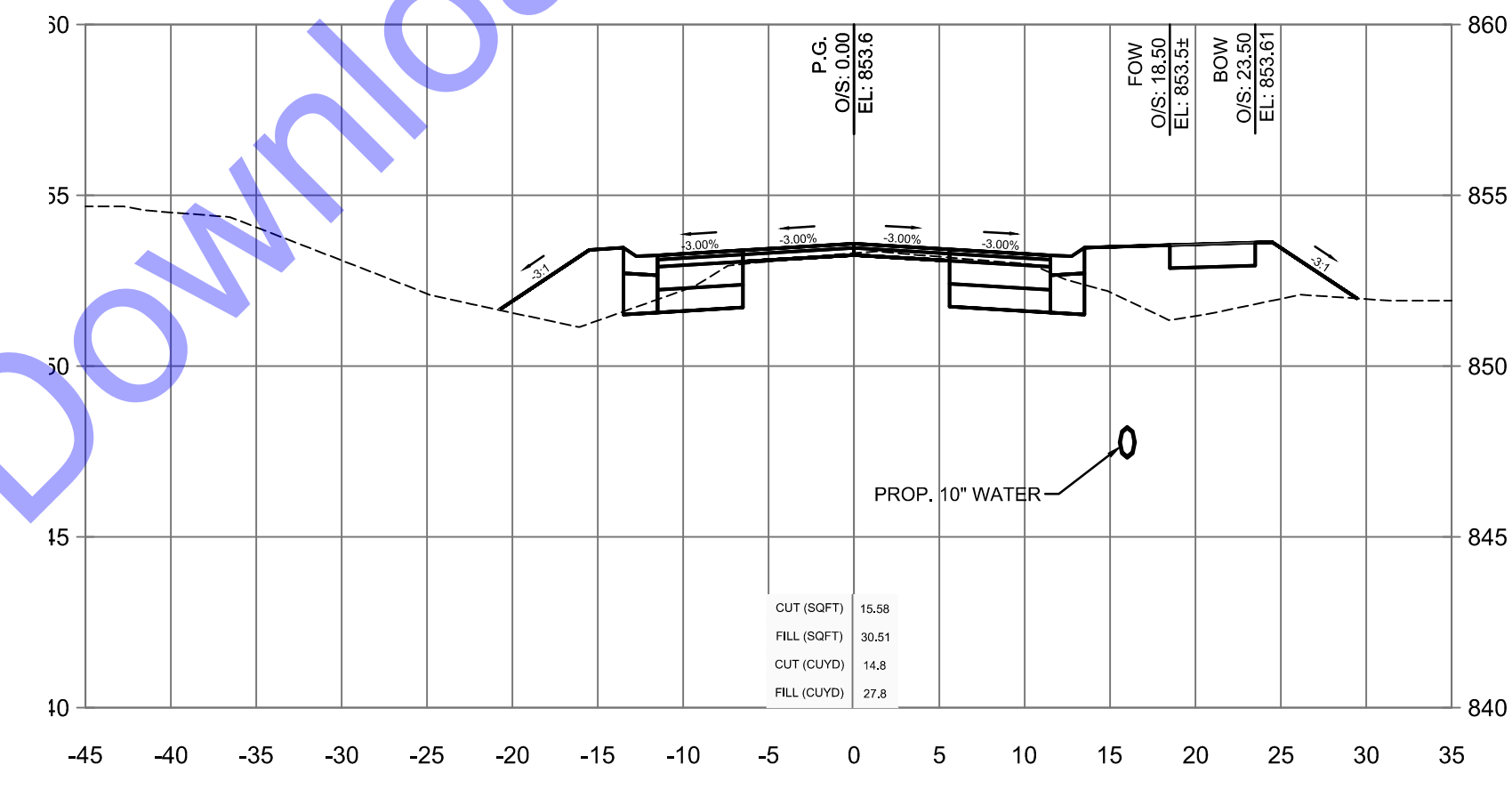
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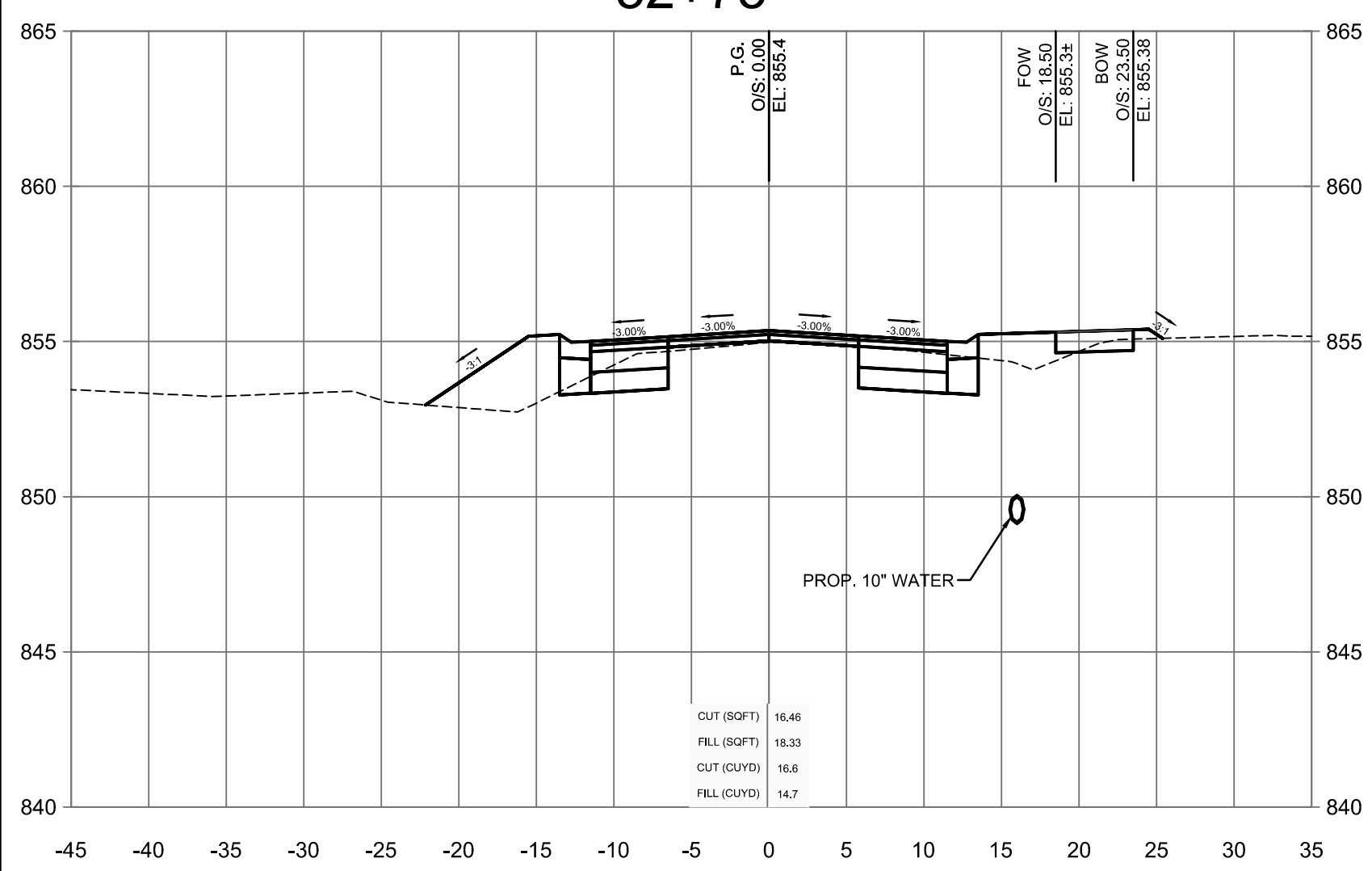
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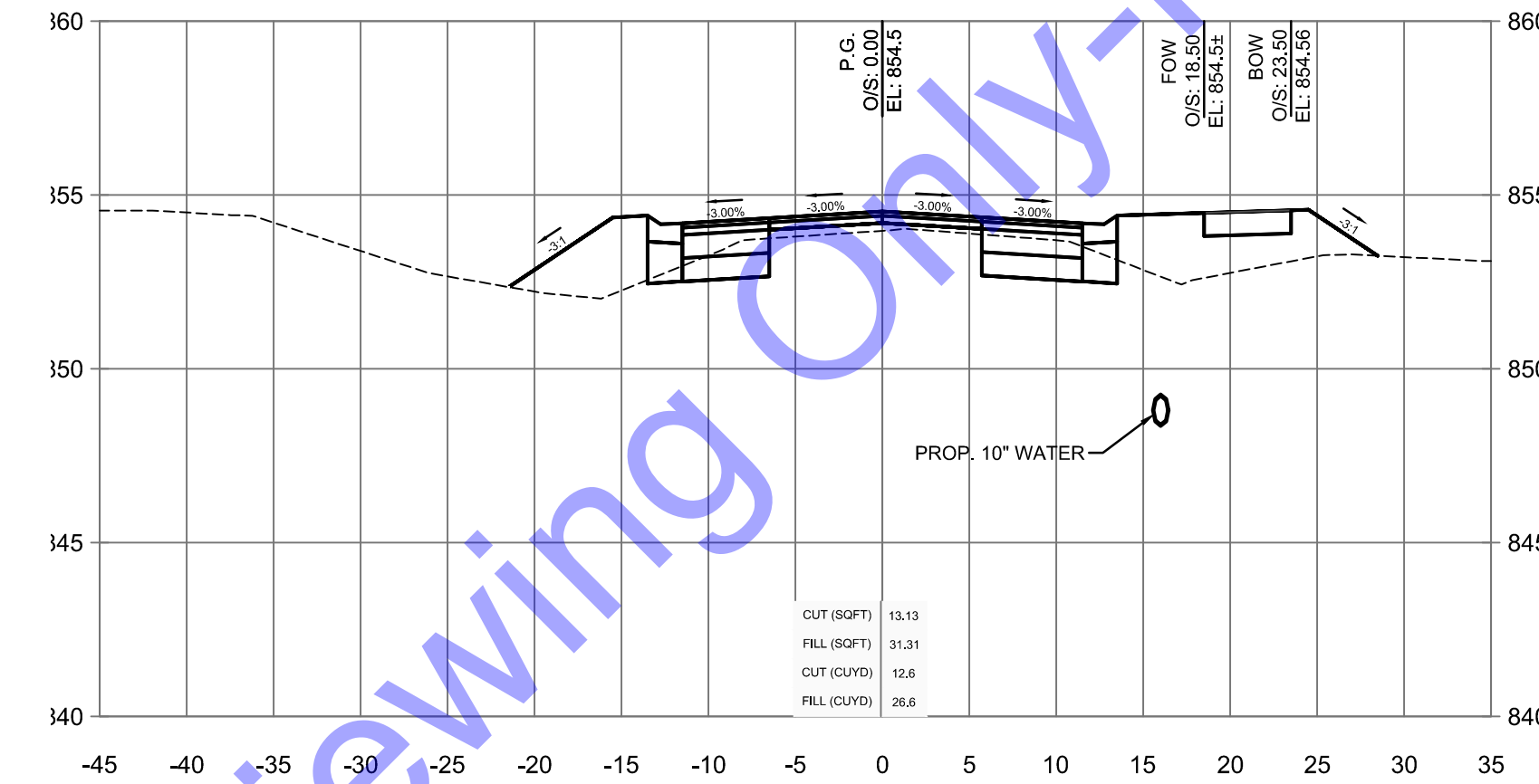
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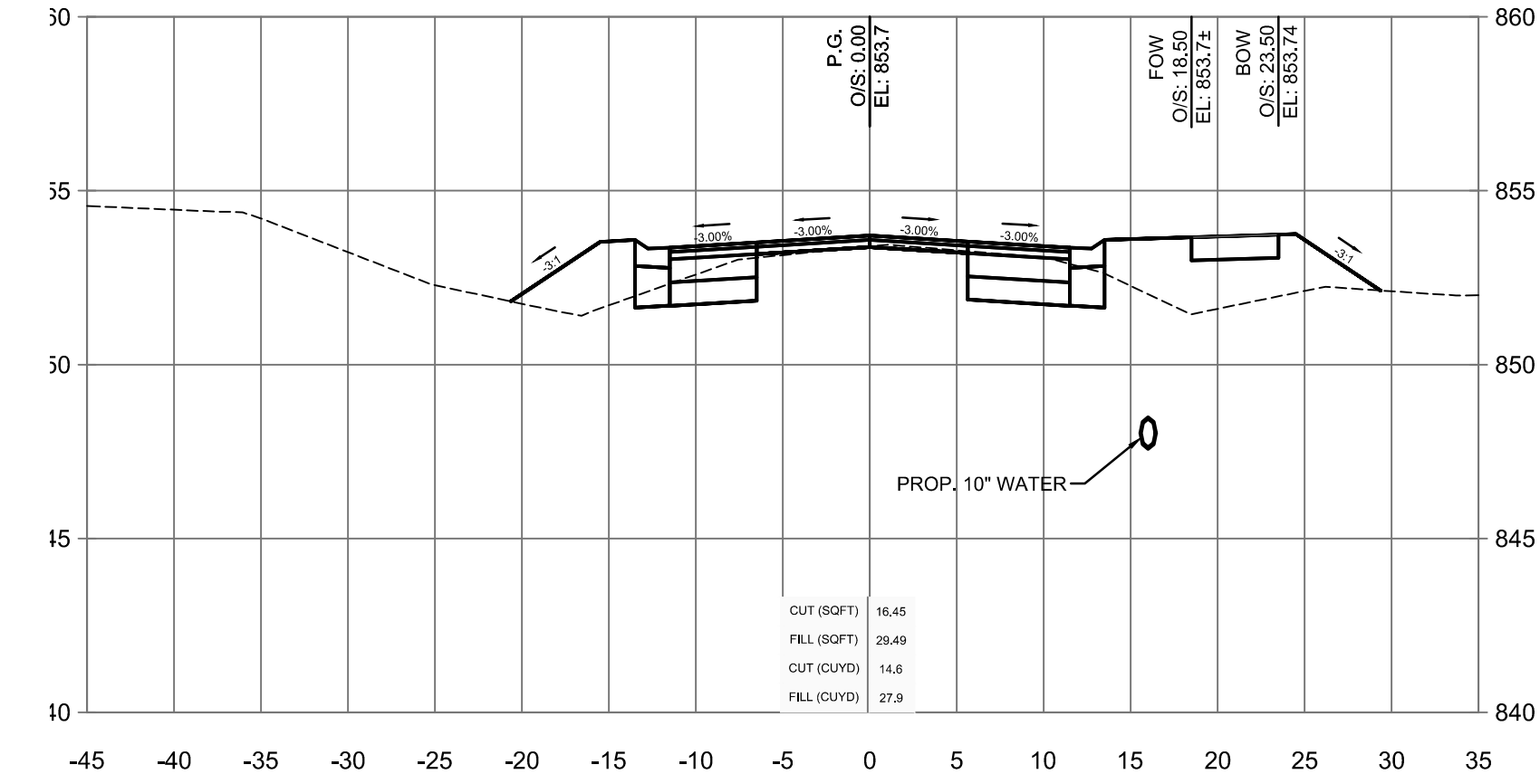
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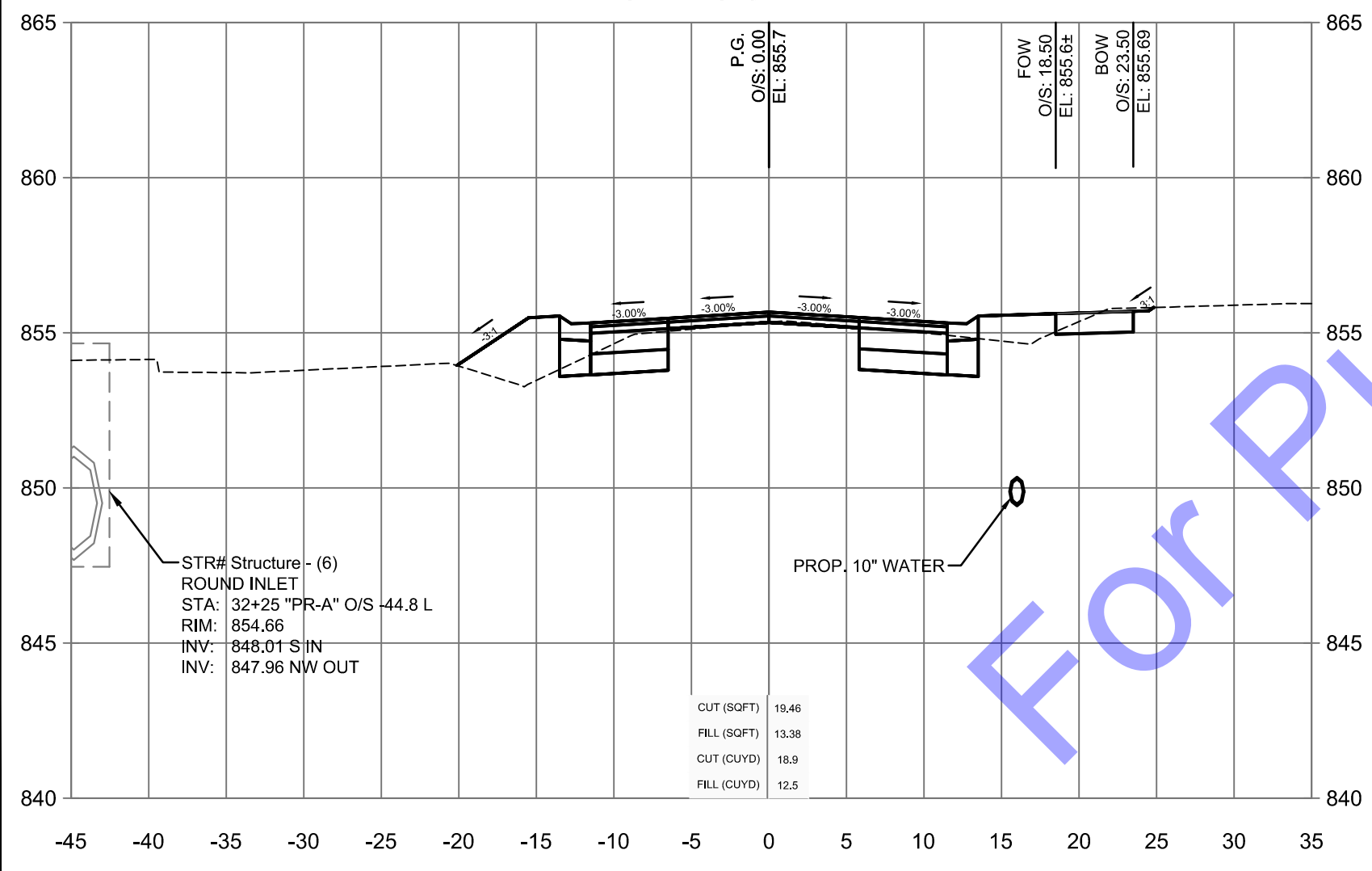
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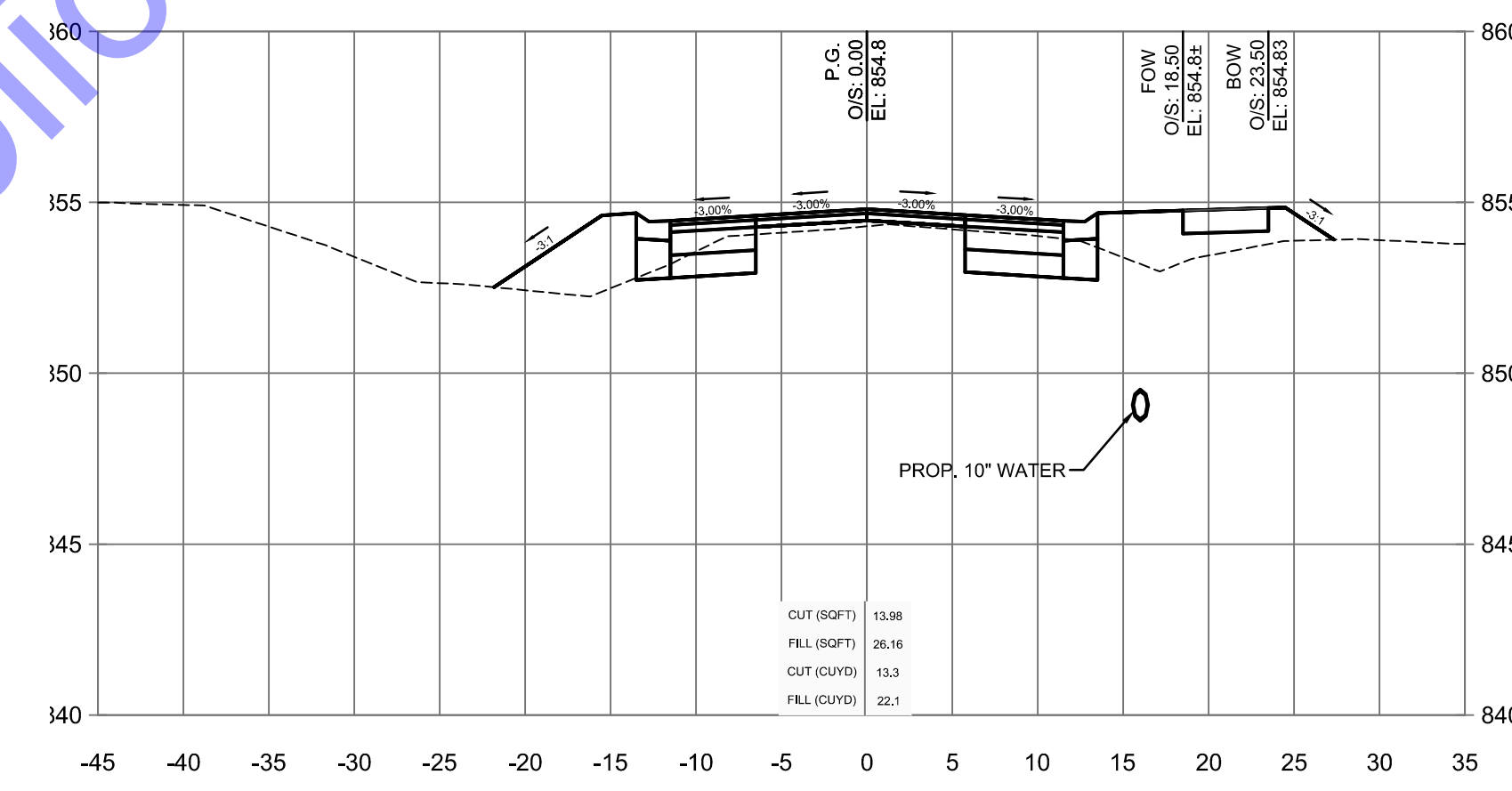
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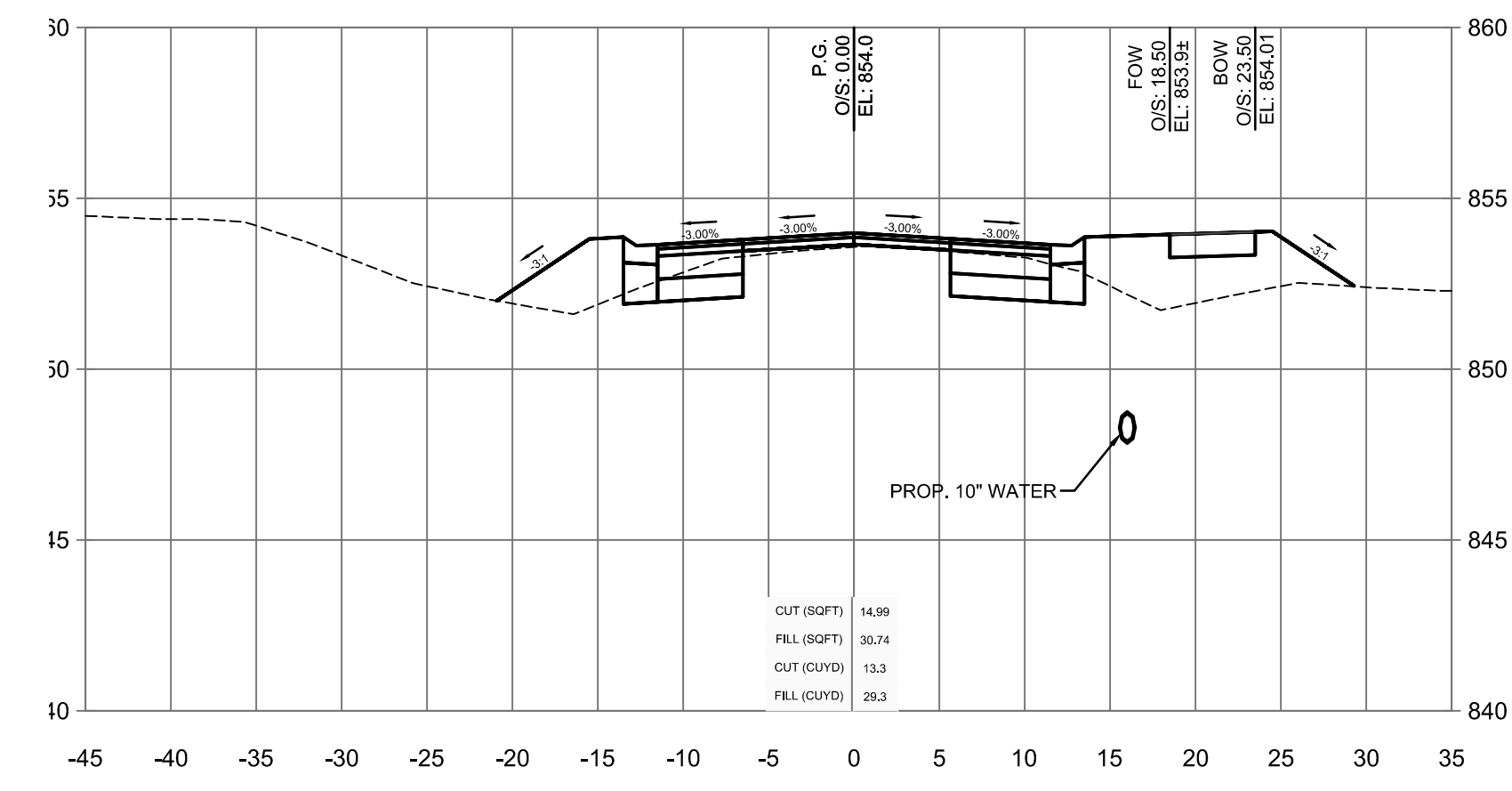
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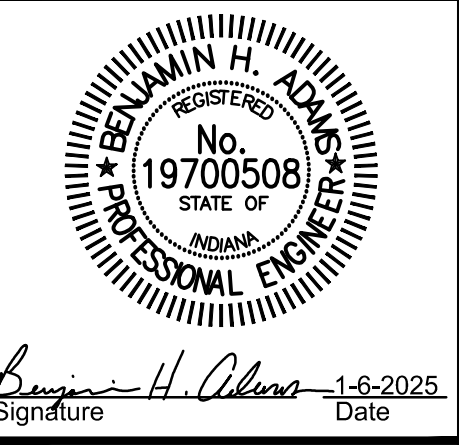
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33+00



33+75



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 CROSS SECTIONS - LINE 'PR-A'

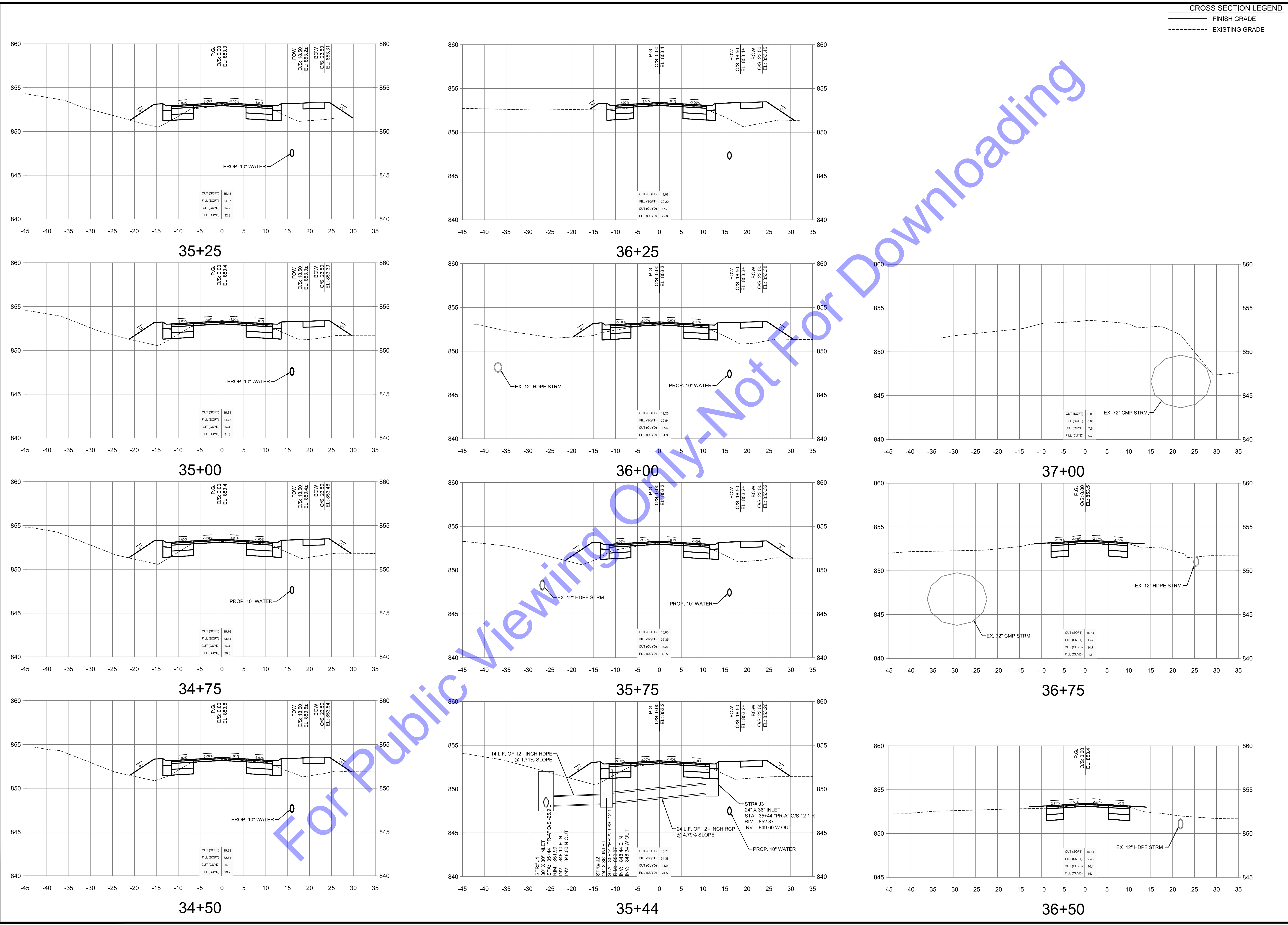
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**XS5**

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 STATE OF INDIANA  
 Benjamin H. Adams  
 Signature Date 1-6-2025

CITY OF BERNE  
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No.	Submittal / Revision
1	BID SET

Designed By: NJS  
 Drawn By: EJK  
 Checked By: BA

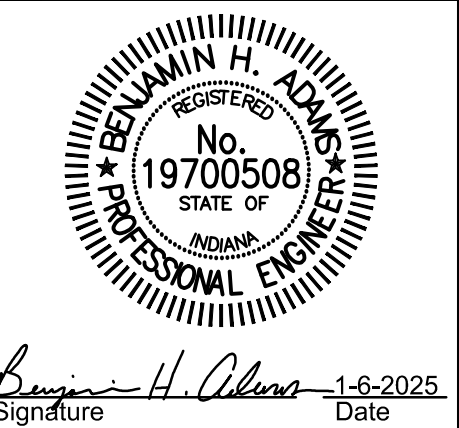
Issue Date: 12/18/2024  
 Project No: H20124  
 Scale: AS SHOWN

**XS6**

Drawing No:  
 Sheet: 21 OF 22

For Public Viewing Only - Not For Downloading

Station	Cut Area	Fill Area	Cut Vol.	Fill Vol.	Cum. Cut Vol.	Cum. Fill Vol.
23+50.00	0.00	0.00	0	0	0	0
23+75.00	0.00	0.00	0	0	0	0
24+00.00	5.10	0.00	2	0	2	0
24+25.00	1.13	1.01	3	0	5	0
24+50.00	0.00	3.29	1	2	6	2
24+75.00	0.00	5.18	0	4	6	6
25+00.00	0.00	6.61	0	5	6	12
25+25.00	0.00	7.38	0	6	6	18
25+50.00	0.00	8.54	0	7	6	26
25+75.00	20.19	11.81	9	9	15	35
26+00.00	22.52	13.06	20	12	35	47
26+25.00	21.44	17.61	20	14	55	61
26+50.00	19.37	21.33	19	18	74	79
26+75.00	18.97	23.75	18	21	92	100
27+00.00	19.54	22.79	18	22	110	121
27+31.19	20.77	22.50	23	26	133	147
27+50.00	18.11	24.00	14	16	147	164
27+75.00	15.20	27.22	15	24	162	187
28+00.00	13.20	32.45	13	28	175	215
28+25.00	10.71	40.73	11	34	186	249
28+50.00	7.92	50.11	9	42	195	291
28+75.00	8.43	50.05	8	46	202	337
29+00.00	9.94	32.66	9	38	211	376
29+15.17	16.66	22.64	7	16	218	391
29+50.00	26.17	17.80	28	26	246	417
29+75.00	31.74	15.46	27	15	273	433
30+00.00	35.29	12.84	31	13	304	446
30+25.00	34.65	12.77	32	12	336	458
30+50.00	33.56	13.09	32	12	368	469
30+75.00	31.18	14.35	30	13	398	482
31+00.00	29.02	14.89	28	14	426	496
31+27.28	26.01	15.00	28	15	453	511
31+50.00	47.80	4.44	31	8	484	519
31+75.00	22.97	11.82	33	8	517	527
32+00.00	21.34	13.52	21	12	538	538
32+25.00	19.46	13.38	19	12	557	551
32+50.00	16.46	18.33	17	15	573	565
32+75.00	14.73	21.54	14	18	588	584
33+00.00	13.98	26.16	13	22	601	606
33+25.00	13.13	31.31	13	27	614	633
33+50.00	13.83	32.59	12	30	626	662
33+75.00	14.99	30.74	13	29	639	691
34+00.00	16.45	29.49	15	28	654	719
34+25.00	15.58	30.51	15	28	669	747
34+50.00	15.28	32.64	14	29	683	776
34+75.00	15.76	33.84	14	31	697	807
35+00.00	15.34	34.78	14	32	712	839
35+25.00	15.43	34.97	14	32	726	871
35+44.05	15.71	34.38	11	24	737	896
35+75.00	18.86	36.35	20	41	757	936
36+00.00	19.25	32.54	18	32	774	968
36+25.00	19.08	30.20	18	29	792	997
36+50.00	15.64	2.43	16	15	808	1012
36+75.00	16.14	1.49	15	2	823	1014
37+00.00	0.00	0.00	7	1	830	1015



**CITY OF BERNE,  
ADAMS COUNTY,  
INDIANA**

CR S 150 W IMPROVEMENTS -  
PHASE 2

CROSS SECTIONS - LINE 'PR-A'

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No.	Submitted / Revision	By	Date
	BID SET	NJS	8/13/24

Designed By: NJS Drawn By: EJK Checked By: BA  
 Issue Date: 12/18/2024 Project No: H20124 Scale: AS SHOWN

**XS7**

Drawing No:

Sheet: 22 OF 22