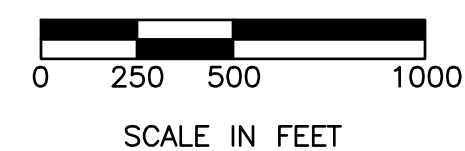


PEASE TOWNSHIP, BELMONT COUNTY, OHIO

THIS PROJECT CONSISTS OF THE INSTALLATION OF A SOLDIER PILE RETAINING WALL WITH PILE PLUGS ALONG A PORTION OF TOWNSHIP ROAD 700 (OLD CADIZ ROAD) WHERE SLOPE FAILURE HAS OCCURRED.

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO,
DEPARTMENT OF TRANSPORTATION INCLUDING CHANGES AND
SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL
SHALL GOVERN THIS IMPROVEMENT.



| | | |
|-------------------------------------|---------|-----------------------------|
| STANDARD CONSTRUCTION DRAWINGS | | SUPPLEMENTAL SPECIFICATIONS |
| ODOT STANDARD CONSTRUCTION DRAWINGS | | |
| MT-101.60 | 1/20/17 | |
| MT-105.10 | 7/19/13 | |
| MGS-2.1 | 1/9/18 | |
| MGS-4.1 | 1/20/17 | |
| | | |



Verdantas, LLC. Phone: (740) 217-7685
156 Woodrow Avenue, St. 3 Fax: (614) 793-9070
St. Clairsville, OH 43950 www.verdantas.com



verdantas

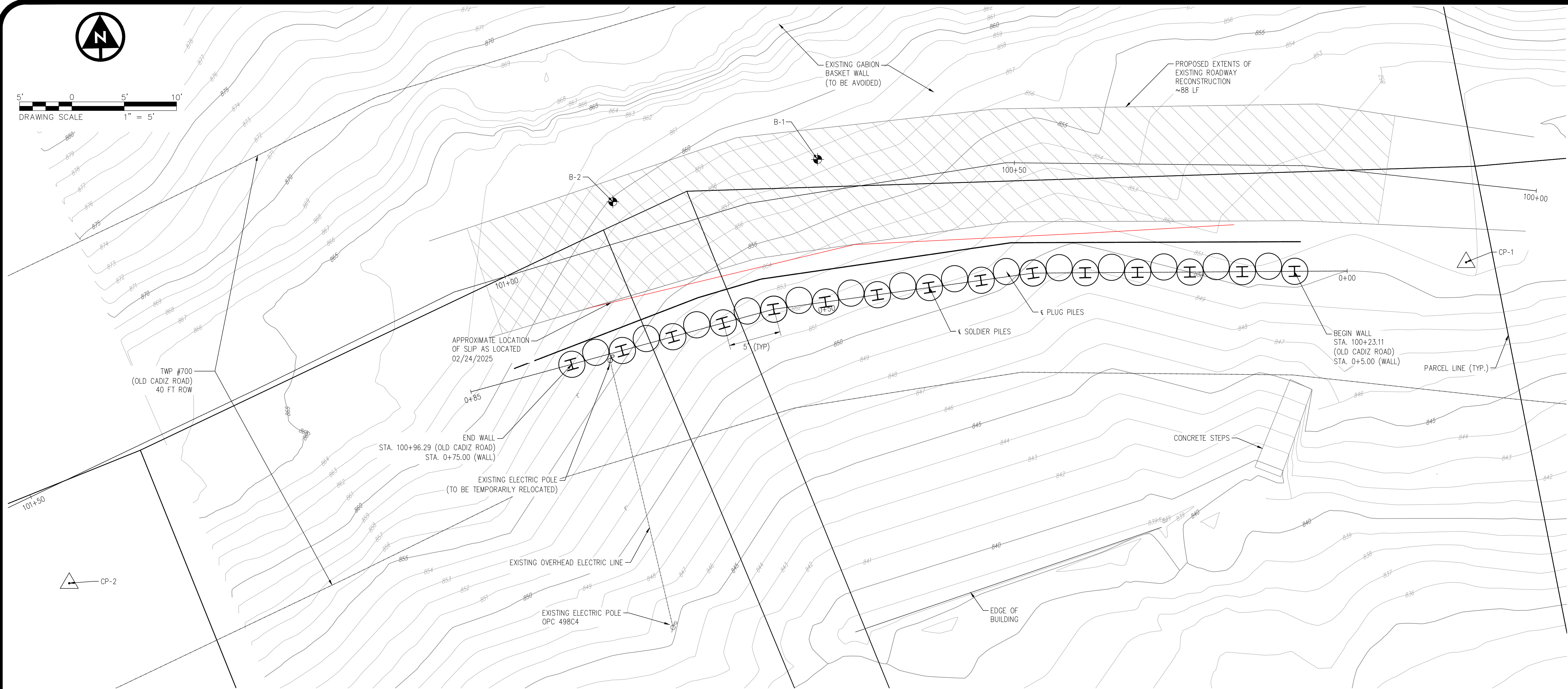
156 WOODROW AVENUE
ST. CLAIRSVILLE, OH 43950-1187
TEL. 740.217.7685
FAX 614.360.0023

| | | | |
|-----|----------|------|--------------|
| No. | REVISION | DATE | DESIGNED BY: |
| | | | CUG |
| | | | DRAWN BY: |
| | | | CUG/LAF |
| | | | CHECKED BY: |
| | | | AJS |
| | | | PROJECT NO. |
| - | | | 30443 |

PEASE TOWNSHIP ~ BELMONT COUNTY ~ OHIO
SLIP REPAIR PLANS
FOR OLD CADIZ ROAD
TITLE SHEET

| | |
|-----------------|------------|
| APPLICATION NO. | |
| DATE: | 2025-07-22 |
| SCALE: | AS NOTED |
| SHEET: | 1 |

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SURVEYOR NOTES:

THE LOCATIONS OF UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON ABOVE GROUND STRUCTURES AND RECORD DRAWINGS PROVIDED TO THE SURVEYOR. LOCATIONS OF UNDERGROUND UTILITIES/STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREON. ADDITIONAL BURIED UTILITIES/STRUCTURES MAY BE ENCOUNTERED. NO EXCAVATIONS WERE MADE DURING THE PROGRESS OF THIS SURVEY TO LOCATE BURIED UTILITIES/STRUCTURES.

DATES OF FIELD WORK: 02/24/2025

EVERY DOCUMENT OF RECORD REVIEWED AND CONSIDERED AS A PART OF THIS SURVEY IS NOTED HEREON.

SUBSURFACE AND ENVIRONMENTAL CONDITIONS WERE NOT EXAMINED OR CONSIDERED AS A PART OF THIS SURVEY. NO STATEMENT IS MADE CONCERNING THE EXISTENCE OF UNDERGROUND OR OVERHEAD CONTAINERS OR FACILITIES THAT MAY AFFECT THE USE OR DEVELOPMENT OF THIS TRACT.

BASIS OF BEARINGS:

THE BEARINGS SHOWN HEREIN ARE BASED ON OHIO STATE PLANE COORDINATE SYSTEM. SOUTH SYSTEM, NAD83, GEOID12A.

BENCHMARKS:

AS PER THE TOPOGRAPHIC SURVEY PREPARED BY VERDANTAS THE CONTRACTOR AND/OR HIS SURVEYOR SHALL BE RESPONSIBLE TO CROSS CHECK ALL CONTROL FOR DISTURBANCE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

BENCHMARK #1 - VDT CONTROL POINT PINS #1
ELEVATION = 849.36
BENCHMARK #2 - VDT CONTROL POINT PINS #2
ELEVATION = 865.77

CONTROL POINTS

BASIS OF BEARING: TRUE NORTH, BASED ON OBSERVATIONS, GPS DATA COLLECTED WITH TRIMBLER8 UNIT VRS CORRECTION ON OHIO STATE PLANE SOUTH ZONE COORDINATE SYSTEM, NAD 1983, NAVD 1988, GEOID 12A.

| POINT # | NORTHING | EASTING | STATION AND OFFSET | DESCRIPTION |
|---------|-------------|--------------|---------------------------|-------------------|
| CP-1 | 760175.1510 | 2457904.1300 | STA. 100+05.94, 7.51' LT. | CONTROL POINT PIN |
| CP-2 | 760144.4870 | 2457770.6890 | STA. 101+50.24, 9.03 LT. | CONTROL POINT PIN |

ALIGNMENT DETAILS

BASIS OF BEARING: TRUE NORTH, BASED ON OBSERVATIONS, GPS DATA COLLECTED WITH TRIMBLE 8 UNIT VRS CORRECTION ON OHIO STATE PLANE SOUTH ZONE COORDINATE SYSTEM, NAD 1983, NAVD 1988, GEOID 12A.

| STATION | NORTHING | EASTING | ALIGNMENT |
|-----------|-------------|--------------|--------------------------|
| 100+14.45 | 760183.5366 | 2457896.4742 | TWP 700 (OLD CADIZ ROAD) |
| 101+01.96 | 760173.2085 | 2457810.4409 | TWP 700 (OLD CADIZ ROAD) |
| 100+23.11 | 760174.2710 | 2457887.7228 | € DRILLED SHAFTS |
| 100+96.30 | 760165.4028 | 2457818.7093 | € DRILLED SHAFTS |

PEASE TOWNSHIP ~ BELMONT COUNTY ~ OHIO
SLIP REPAIR PLANS
FOR OLD CADIZ ROAD
OVERALL SITE PLAN

| |
|---------------------|
| APPLICATION NO. |
| DATE: 2025-07-22 |
| SCALE: AS NOTED |
| SHEET: 3 |

ALLEN J. SMITH JR.
REGISTERED PROFESSIONAL ENGINEER
STATE OF OHIO
E-71835

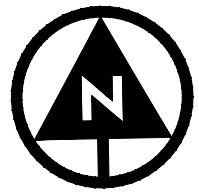
| | |
|--------------|---------|
| DESIGNED BY: | C/G |
| DRAWN BY: | C/G/LAF |
| CHECKED BY: | AUS |
| PROJECT NO. | 30443 |

| CHK'D BY | DATE | REVISION | No. |
|----------|------|----------|-----|
| | | | 1 |

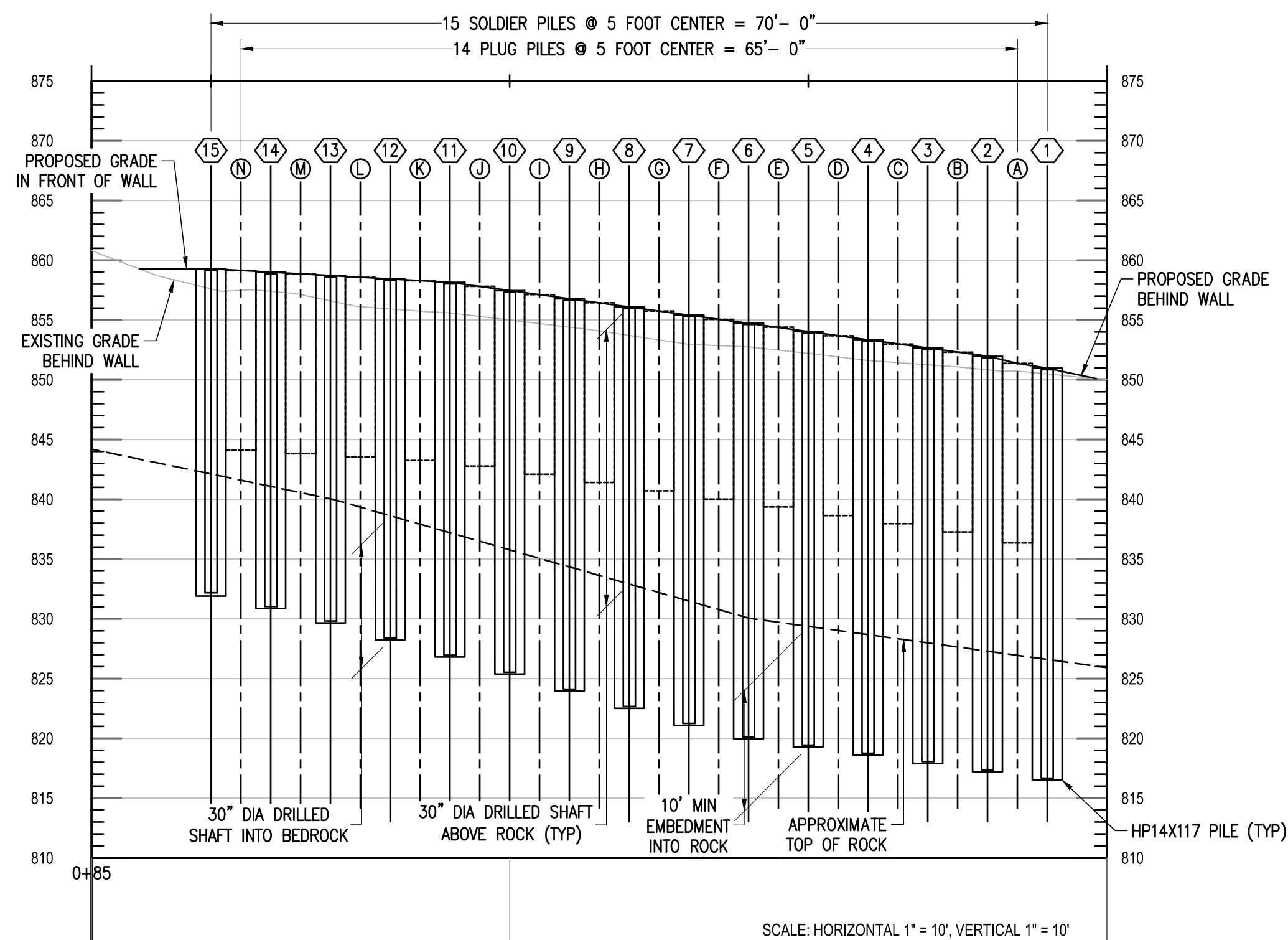
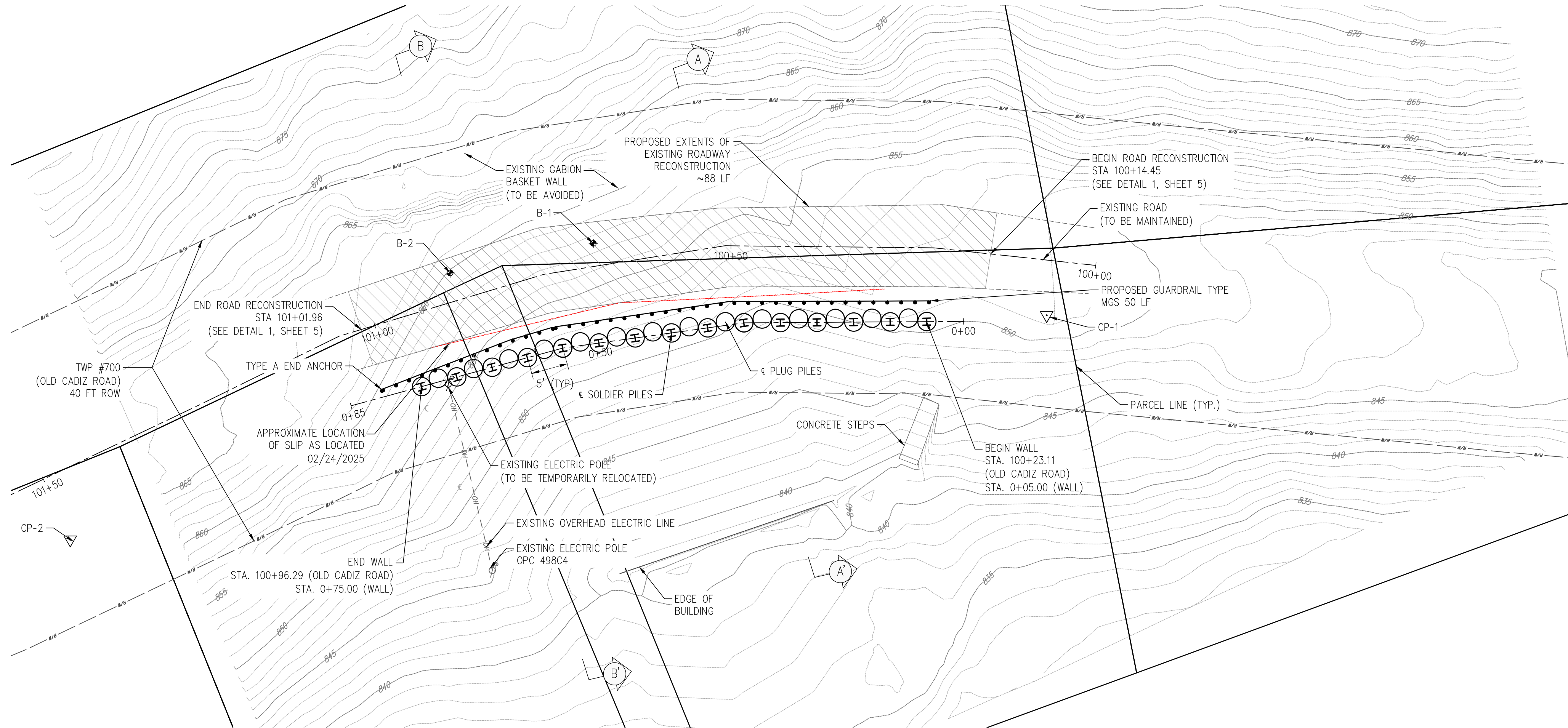
verdantas

156 WOODROW AVENUE
ST. CLAIRSVILLE, OH 43950-1187
TEL 740.217.7685
FAX 614.360.0023





10' 0 10' 20'
DRAWING SCALE 1" = 10'



verdantas

156 WOODROW AVENUE
ST. CLAIRSVILLE, OH 43950-1187
TEL 740.217.7685
FAX 614.360.0023

ALLEN J. SMITH JR.



STATE: OHIO P.E. 71835

DESIGNED BY: C/G

CHK'D BY: DATE

REVISION

No.

DRAWN BY: C/G/LAF

CHECKED BY: AUS

PROJECT NO. 30443

PEASE TOWNSHIP ~ BELMONT COUNTY ~ OHIO
SLIP REPAIR PLANS
FOR OLD CADIZ ROAD
PLAN AND PROFILE

APPLICATION NO.

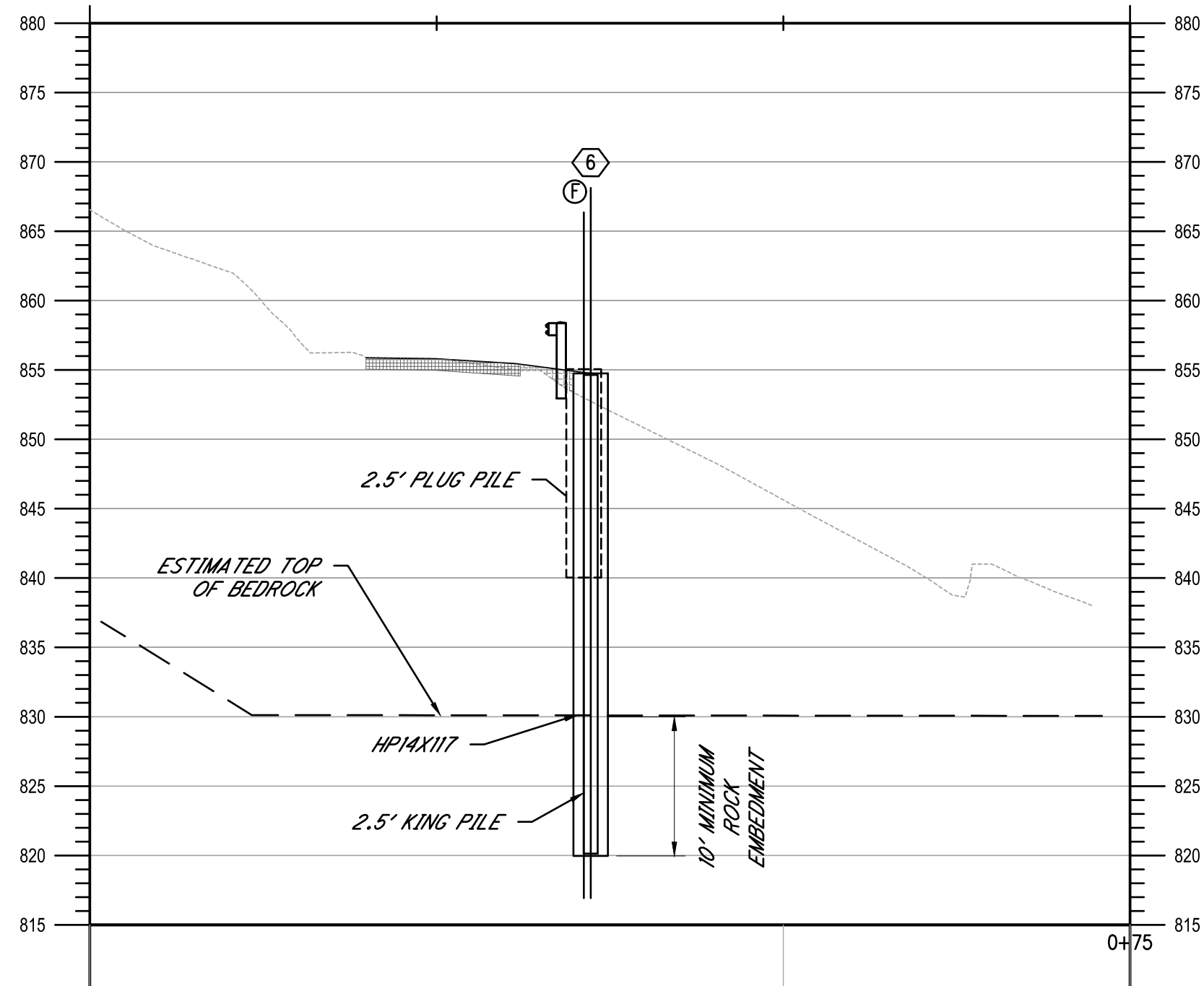
DATE: 2025-07-22

SCALE: AS NOTED

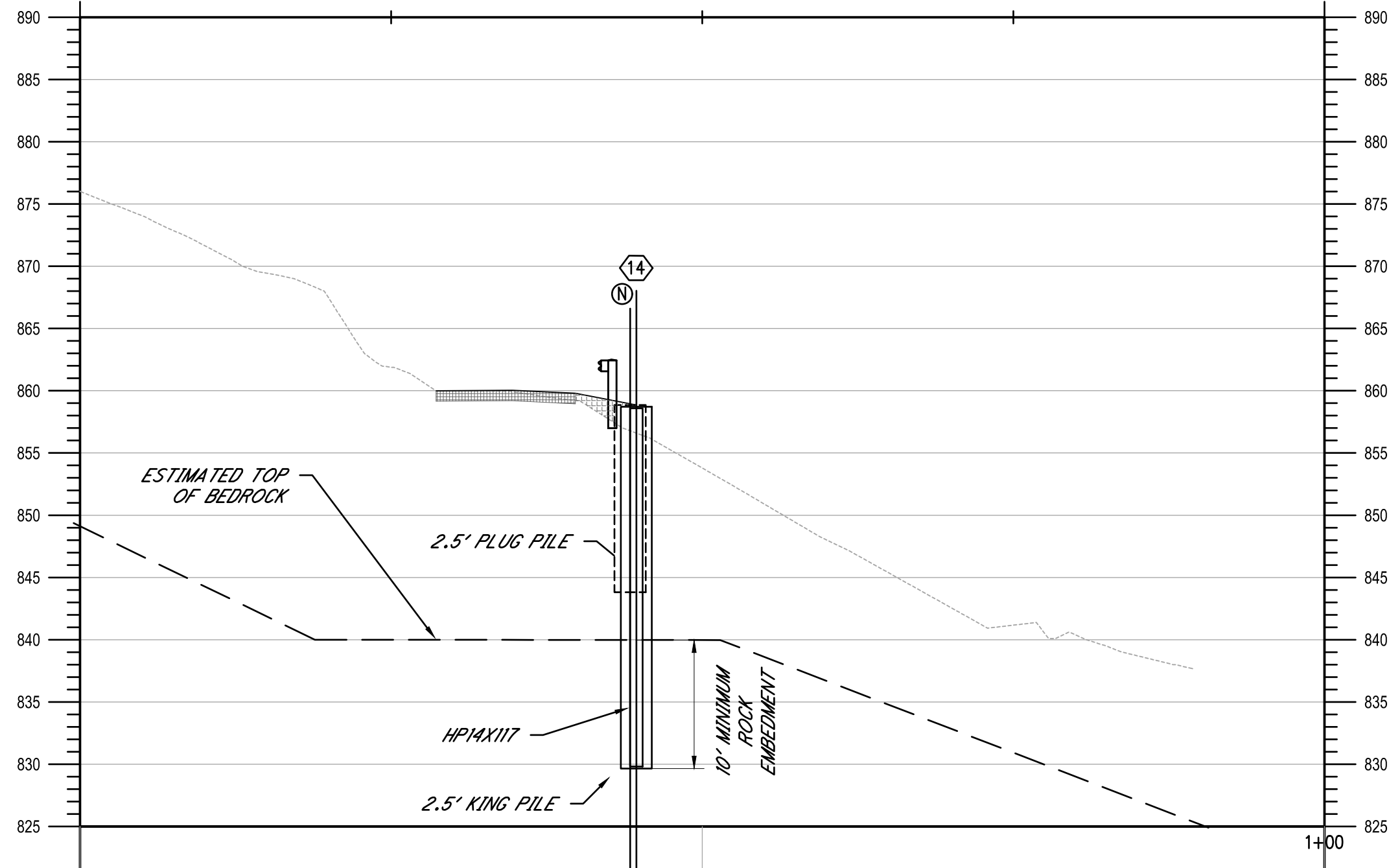
SHEET: 4



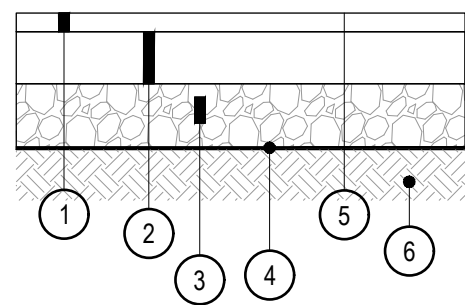
z:\project files\corps\pease\30443 - 1700 old codiz road\cor\sheet and plans\30443_details.dwg



TYPICAL REPAIR SECTION A-A'
HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 10'



TYPICAL REPAIR SECTION B-B'
HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 10'



- 1 ITEM 441 - 2" ASPHALT SURFACE COURSE, TYPE 1 PG64-22
- 2 ITEM 301 - 3" BITUMINOUS AGGREGATE BASE COURSE
- 3 ITEM 304 - 6" AGGREGATE BASE
- 4 ODOT TYPE D WOVEN GEOTEXTILE
- 5 ITEM 407 - TACK COAT
- 6 ITEM 204 - SUBGRADE COMPACTION

1 ASPHALT CONCRETE PAVEMENT SECTION

Not to Scale

NOTES:

- ALL PAVEMENT MATERIALS SHALL CONFORM TO THE CURRENT ODOT CONSTRUCTION AND MATERIALS SPECIFICATIONS.
- THE CONTRACTOR SHALL SAW THE PROPOSED REPAIR JOINTS PER ITEM 203.04E WITH ALL JOINTS TO BE SEALED PER ITEM 423

| DESIGNED BY: | CUG |
|--------------|---------|
| DRAWN BY: | CUG/LAF |
| CHECKED BY: | AJS |
| PROJECT NO. | 30442 |
| CHK'D BY: | |
| DATE: | |
| REVISION: | |
| No. | 1 |

PEASE TOWNSHIP ~ BELMONT COUNTY ~ OHIO
SLIP REPAIR PLANS FOR
PATTONS RUN - SITE 2
RETAINING WALL DETAILS

APPLICATION NO.

DATE:
2025-07-03

SCALE:
AS NOTED

SHEET:
5

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| SHAFT NO. | STATION | TOP ELEVATION OF EXISTING GROUND AT PILE | TOP ELEVATION OF PROPOSED GROUND AT PILE | TOP ELEVATION OF SHAFT | BOTTOM ELEVATION OF SHAFT | ESTIMATED TOP OF ROCK ELEVATION | 614 | 614 | 614 |
|-----------------------------------|---------|--|--|------------------------|---------------------------|---------------------------------|------------------------------|---|--|
| | | | | | | | STEEL PILES, MISC.: HP14X117 | 30" DIAMETER DRILLED SHAFT ABOVE BEDROCK, AS PER PLAN | 30" DIAMETER DRILLED SHAFT INTO BEDROCK, AS PER PLAN |
| 1 | 0+05.00 | 850.48 | 850.96 | 850.96 | 816.50 | 826.50 | 34.46 | 24.46 | 10.00 |
| 2 | 0+10.00 | 850.83 | 851.95 | 851.95 | 817.20 | 827.20 | 34.75 | 24.75 | 10.00 |
| 3 | 0+15.00 | 851.25 | 852.65 | 852.66 | 817.89 | 827.89 | 34.77 | 24.77 | 10.00 |
| 4 | 0+20.00 | 851.61 | 853.34 | 853.35 | 818.58 | 828.58 | 34.77 | 24.77 | 10.00 |
| 5 | 0+25.00 | 852.21 | 854.02 | 854.02 | 819.27 | 829.27 | 34.75 | 24.75 | 10.00 |
| 6 | 0+30.00 | 852.74 | 854.71 | 854.75 | 819.96 | 829.96 | 34.79 | 24.79 | 10.00 |
| 7 | 0+35.00 | 852.96 | 855.40 | 855.39 | 821.08 | 831.08 | 34.31 | 24.31 | 10.00 |
| 8 | 0+40.00 | 853.70 | 856.08 | 856.09 | 822.51 | 832.51 | 33.58 | 23.58 | 10.00 |
| 9 | 0+45.00 | 854.40 | 856.77 | 856.77 | 823.94 | 833.94 | 32.83 | 22.83 | 10.00 |
| 10 | 0+50.00 | 855.00 | 857.46 | 857.46 | 825.37 | 835.37 | 32.09 | 22.09 | 10.00 |
| 11 | 0+55.00 | 855.59 | 858.14 | 858.14 | 826.80 | 836.80 | 31.34 | 21.34 | 10.00 |
| 12 | 0+60.00 | 855.93 | 858.43 | 858.43 | 828.23 | 838.23 | 30.20 | 20.20 | 10.00 |
| 13 | 0+65.00 | 856.60 | 858.71 | 858.71 | 829.65 | 839.65 | 29.06 | 19.06 | 10.00 |
| 14 | 0+70.00 | 857.39 | 859.00 | 859.00 | 830.86 | 840.86 | 28.14 | 18.14 | 10.00 |
| 15 | 0+75.00 | 857.60 | 859.28 | 859.28 | 831.90 | 841.90 | 27.38 | 17.38 | 10.00 |
| TOTALS CARRIED TO GENERAL SUMMARY | | | | | | | 487.22 | 337.22 | 150.00 |

| SHAFT NO. | STATION | OFFSET | TOP ELEVATION OF EXISTING GROUND AT PILE | TOP ELEVATION OF PROPOSED GROUND AT PILE | TOP ELEVATION OF SHAFT | BOTTOM ELEVATION OF SHAFT | ESTIMATED TOP OF ROCK ELEVATION | 614 |
|-----------------------------------|---------|--------|--|--|------------------------|---------------------------|---------------------------------|---|
| | | | | | | | | 30" DIAMETER DRILLED SHAFT ABOVE BEDROCK, AS PER PLAN |
| A | 0+07.50 | 0.5 LT | 850.73 | 851.37 | 851.37 | 836.37 | 836.37 | 15.00 |
| B | 0+12.50 | 0.5 LT | 851.07 | 852.31 | 852.30 | 837.30 | 837.30 | 15.00 |
| C | 0+17.50 | 0.5 LT | 851.43 | 852.99 | 852.99 | 837.99 | 837.99 | 15.00 |
| D | 0+22.50 | 0.5 LT | 851.92 | 853.68 | 853.67 | 838.67 | 838.67 | 15.00 |
| E | 0+27.50 | 0.5 LT | 852.48 | 854.37 | 854.40 | 839.40 | 839.40 | 15.00 |
| F | 0+32.50 | 0.5 LT | 852.85 | 855.05 | 855.05 | 840.05 | 840.05 | 15.00 |
| G | 0+37.50 | 0.5 LT | 853.33 | 855.74 | 855.75 | 840.75 | 840.75 | 15.00 |
| H | 0+42.50 | 0.5 LT | 854.07 | 856.43 | 856.43 | 841.43 | 841.43 | 15.00 |
| I | 0+47.50 | 0.5 LT | 854.70 | 857.11 | 857.12 | 842.12 | 842.12 | 15.00 |
| J | 0+52.50 | 0.5 LT | 855.30 | 857.80 | 857.81 | 842.81 | 842.81 | 15.00 |
| K | 0+57.50 | 0.5 LT | 855.74 | 858.29 | 858.29 | 843.29 | 843.29 | 15.00 |
| L | 0+62.50 | 0.5 LT | 856.11 | 858.57 | 858.57 | 843.57 | 843.57 | 15.00 |
| M | 0+67.50 | 0.5 LT | 857.13 | 858.86 | 858.86 | 843.86 | 843.86 | 15.00 |
| N | 0+72.50 | 0.5 LT | 857.48 | 859.14 | 859.14 | 844.14 | 844.14 | 15.00 |
| TOTALS CARRIED TO GENERAL SUMMARY | | | | | | | | 210.00 |

PEASE TOWNSHIP ~ BELMONT COUNTY ~ OHIO
SLIP REPAIR PLANS
FOR OLD CADIZ ROAD
PILE TABLE

APPLICATION NO.

DATE:
2025-07-22

SCALE:
AS NOTED

SHEET:
6

CHK'D BY: DATE

DESIGNED BY: C/G

DRAWN BY: C/G/LAF

CHECKED BY: A/S

PROJECT NO. 30443

REVISION

No.

1

STATE OF OHIO

REGISTERED PROFESSIONAL ENGINEER

ALLEN J. SMITH JR. E-71835

STATE: OHIO P.E. 71835