



8113 WEST GRANDRIDGE BOULEVARD, KENNEWICK, WASHINGTON 99336-7166

January 20, 2017

Alan Rathbun
Director, Pipeline Safety
Utilities & Transportation Commission
1300 S. Evergreen Park Dr. S.W
PO Box 47250
Olympia, WA 98504-7250

Subject: WAC 480-93-020 – Request for Approval – Toppenish-Zillah Transmission Line Replacement

Dear Mr. Rathbun:

Pursuant to the requirements of WAC 480-93-020 Proximity Considerations, Cascade Natural Gas Corporation (CNGC) requests approval to operate a replaced section of six inch pipeline at a Maximum Allowable Operating Pressure (MAOP) of 400 psig within 100 feet of existing structure intended for human occupancy.

Proposed Scope of Work:

Yakima County has informed Cascade Natural Gas of proposed construction plans for a Cheyne Road improvement project located in rural Yakima County about 2 miles north of the city of Zillah. The improvement project parallels the existing 6-inch Toppenish-Zillah Transmission Line where a 400 foot segment of 6-inch pipeline will have to be replaced. Approximately 400 feet of the pipeline will be replaced in a previously established 8 foot wide pipeline easement paralleling Cascade's existing 6-inch Toppenish-Zillah Transmission Line. The replacement section of the 6-inch pipeline will begin at station 36+75 and proceed to station 40+75 of the Yakima County plans. This pipeline operates at an MAOP of 400 psig. Approximately 400 feet of the new pipeline will be installed using standard excavated trench. The complete route is depicted on the attached aerial map, titled Toppenish-Zillah Transmission Line Relocate – Project Route (Figure #1).

The proposed section of 6-inch pipeline will be designed with a minimum component rating of 720 psig and will be pressure tested to a minimum of 1080 psig following Cascade's established testing procedures, above the design specifications of previously installed 6-inch Toppenish-Zillah Transmission Line pipelines, which will ultimately connect together to form one continuous pipeline system. The MAOP of the 6-inch pipeline will continue to be 400 psig. At the proposed MAOP of 400 psig, the maximum stress level of the 400-foot replaced section pipe and pipeline fittings will be 9.1% of the specified minimum yield strength. Thus, this pipeline section will be classified as high pressure distribution main. There will be 100% NDT performed on the newly installed section of pipeline.

Specifications of the 6-inch pipeline are as follows:

- 400 feet of 6” x 0.280” API 5L Grade X-52 steel line pipe with fusion bonded epoxy coating.
- All fittings (elbows, tees, caps, etc.) will be a minimum standard weight, ANSI 16.9 WPHY-52.
- All components (valves, line stoppers, etc.) will be ANSI Class 300 with a maximum working pressure rating of 720 psig.

Proximity:

The proposed pipeline will be installed within 100 feet of the existing building as shown on Figure 1. This would be 36 feet from the residence at 1860 Cheyne Rd, Zillah. It is not possible to increase the distance between the proposed pipeline and the building at this location within the existing utility easement.

Alternatives:

An alternative to the chosen route would be to re-route the pipe around the 100-foot radius from the single family residence at 1860 Cheyne Rd. This would extend the southernmost tie-in point at a minimum of 40 feet from station 36+75 to station 36+35 according to Yakima County’s plans. Alternate route would need a private easement on Parcel# 201124-22402. The alternate route is not considered practical as existing pipeline and pipeline easements are in place and the alternate route would expose the pipeline to additional risk on private property and agricultural machinery. Aerial map can be referenced, titled Toppenish-Zillah Transmission Line Relocate – Alternate Route.

Closing:

Cascade respectfully requests your approval to move forward with the installation of the proposed 6-inch Toppenish-Zillah Transmission Line project which is scheduled to begin construction at the end of March, 2017. If you have any questions or require additional information, feel free to contact me at (509) 734-4576 or via email at mike.eutsey@cngc.com

Sincerely,

Mike Eutsey
Director, Operations Services
Cascade Natural Gas

CC: Eric Martuscelli
Steve Kessie
Jeremy Ogden

Enclosures



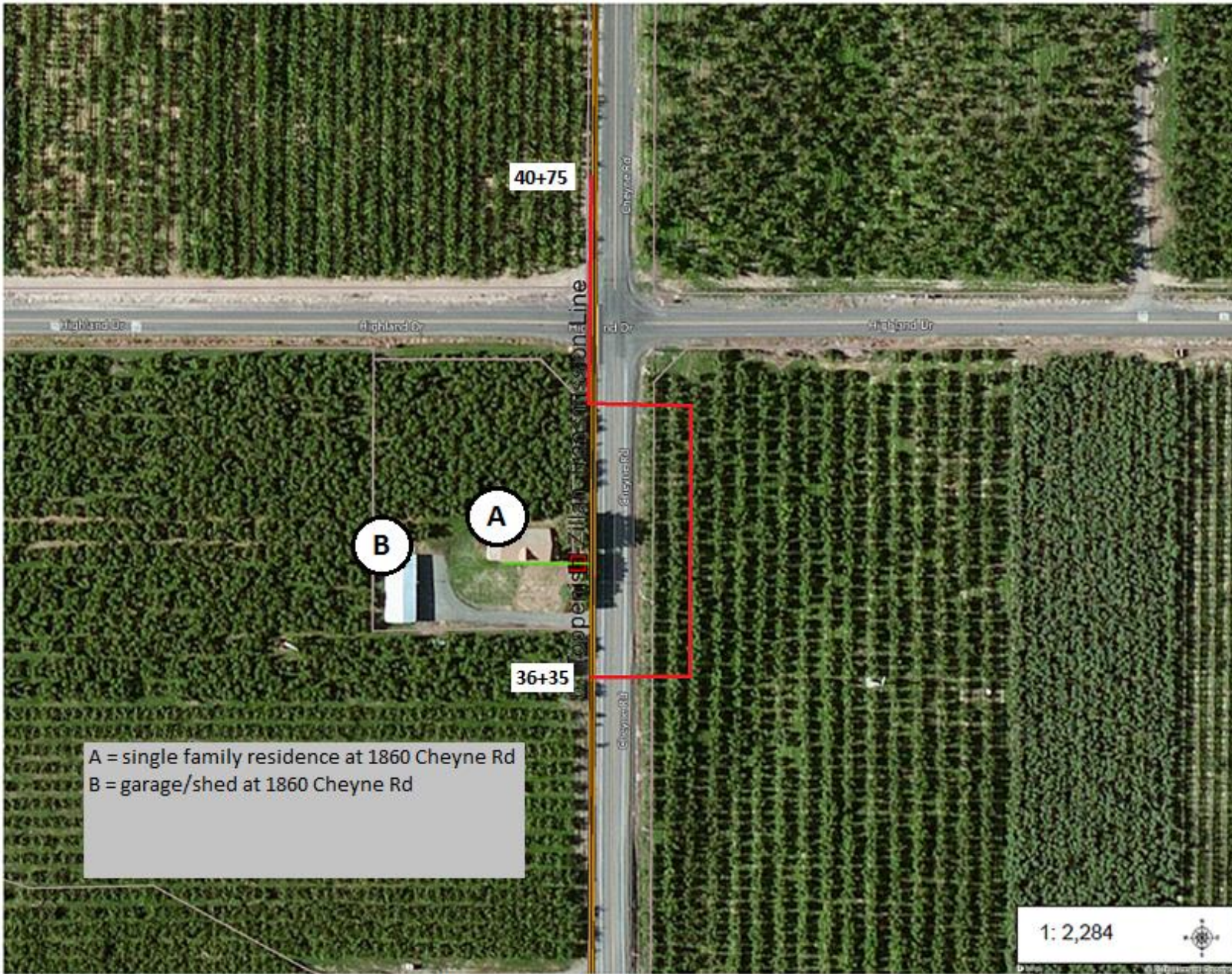
Legend

- Regulator Station
- Town Border Station
- Compressor
- Gas Valve
 - Closed
 - Open
 - Unknown
- Odorizer
- Controllable Fitting
 - End Cap
 - Insulated Coupling
 - Reducer
 - Transition
- Non-Controllable Fitting
 - Pressure Monitoring Device
- Transmission Main
 - 4"
 - 6"
 - 8"
 - 10"
 - 12"
 - 18"
 - 20"
- Proposed Replacement Section

Notes

Toppenish-Zillah Transmission Line Relocate - Project Route Figure 1

This map is a user generated static output from the CNG GIS Silverlight mapping website and is for reference only. It is not to be relied upon for construction purposes. It is provided for planning purposes only. FIELD LOCATES ARE REQUIRED FOR LOCATION OF GAS FACILITIES

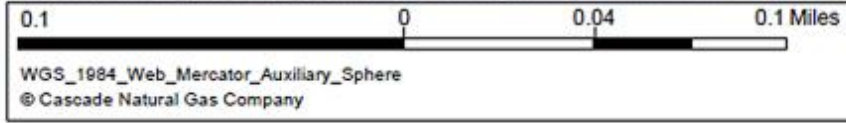


A = single family residence at 1860 Cheyne Rd
 B = garage/shed at 1860 Cheyne Rd

1: 2,284

Legend

- Regulator Station
- Town Border Station
- Compressor
- Gas Valve
 - Closed
 - Open
 - Unknown
- Odorizer
- Controllable Fitting
- Non-Controllable Fitting
 - End Cap
 - Insulated Coupling
 - Reducer
 - Transition
- Pressure Monitoring Device
- Transmission Main
 - 4"
 - 6"
 - 8"
 - 10"
 - 12"
 - 16"
 - 20"
 - Alternative Route



This map is a user generated static output from the CNG GIS Silverlight mapping website and is for reference only. It is not to be relied upon for construction purposes. It is provided for planning purposes only.
FIELD LOCATES ARE REQUIRED FOR LOCATION OF GAS FACILITIES

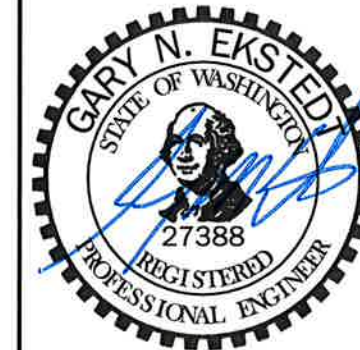
Notes

Toppenish-Zillah Transmission Line Relocate - Project Route Figure 1



CHEYNE ROAD
IMPROVEMENT
PROJECT
STPR-D395(002)
CHEYNE ROAD &
HIGHLAND DRIVE
INTERSECTION
C 3377

PREPARED UNDER
THE DIRECTION OF:



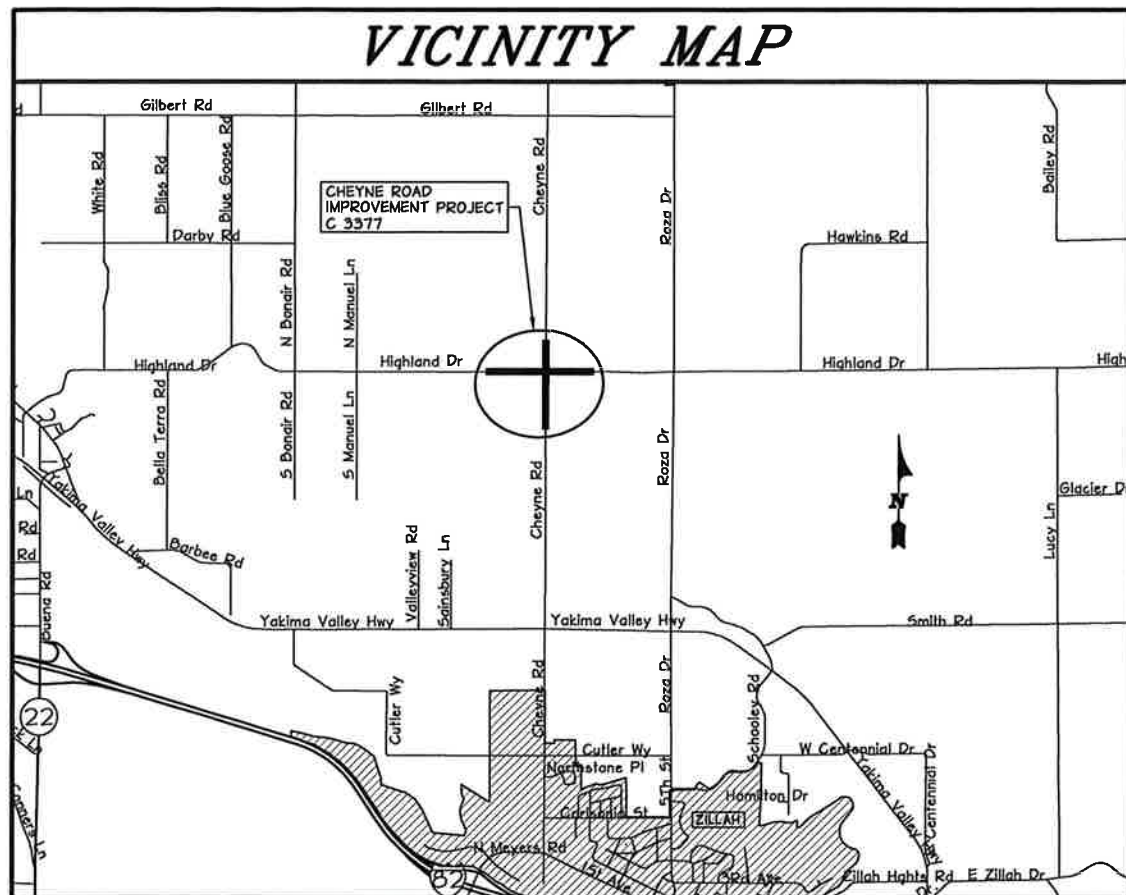
COUNTY ENGINEER
DATE: 10/9/12

PROJECT ENGINEER:
KIM PFAFF

DRAWN: J. MATTHEWS
CHECKED BY: K. PFAFF

RIGHT OF WAY PLANS
VICINITY MAP,
INDEX, &
LEGEND

SHEET 1 OF 17



CHEYNE ROAD IMPROVEMENT PROJECT C 3377

FEDERAL AID NO:STPR D395(002)

INDEX

| | |
|----------|--|
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| SHEET 6 | CHEYNE ROAD RIGHT OF WAY PLANS; STA. 35+00 TO STA. 38+50 |
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| SHEET 17 | ROAD APPROACHES (4) |

LEGEND

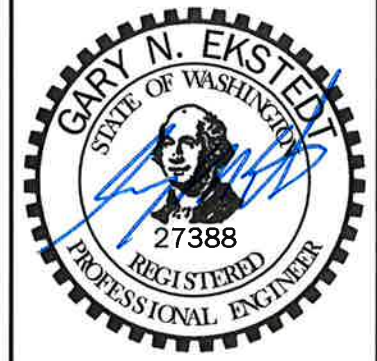
| | | | |
|------------------------|------------------------|------------------------|------------------------|
| Back of Ditch | Oil | Power-Aerial | Property Line |
| Back of Walk | Power-Underground | Property Line | Railroad Tracks |
| Berm-existing | Property Line | Railroad Tracks | R/W |
| Bot. of Ditch-existing | Railroad Tracks | R/W | Sanitary Sewer |
| CL-New Road | R/W | Sanitary Sewer | Section Line-Approx. |
| CL-Existing Road | Sanitary Sewer | Section Line-Approx. | Section Line-Quarter |
| Curb | Section Line-Approx. | Section Line-Quarter | Section Line-Sixteenth |
| DID-existing | Section Line-Quarter | Section Line-Sixteenth | Shoulder-existing |
| Edge of Oil | Section Line-Sixteenth | Shoulder-existing | Steam |
| Existing R/W | Shoulder-existing | Steam | Storm Drain |
| Fence-Barbed | Steam | Storm Drain | Telephone-Aerial |
| Fence-Board | Storm Drain | Telephone-Aerial | Telephone-Underground |
| Fence-Chain | Telephone-Aerial | Telephone-Underground | Television-Aerial |
| Gas | Telephone-Underground | Television-Aerial | Television-Underground |
| Grape Line | Television-Aerial | Television-Underground | Toe-existing |
| Guardrail | Television-Underground | Toe-existing | Water |
| Gutter | Toe-existing | Water | |
| Hop Line | Water | | |
| Irrigation | | | |
| New Edge of Road | | | |
| Anchor | Irrig.-Blow | San.-Drainfield | Tele.-Pedestal |
| Bench Mark | Irrig.-Pump | San.-Manhole | Tele.-Pole |
| Catch Basin | Irrig.-Standpipe | San.-Septic | Tele.-Vault |
| Control Point | Irrig.-Sprinkler | Section Corner | Tree-Con. |
| DID-Inlet | Irrig.-Valve | Service Pole | Tree-Dec. |
| DID-Manhole | Mailbox | Shrub | Tv-Cabox |
| Gas-Meter | Orchard | Sign | Water-Faucet |
| Gas-Valve | Power-Jbox | Storm-Manhole | Water-Fire Hyd. |
| Grape-Pole | Power-Panel | Stream Barb | Water-Meter |
| Hedge | Power-Pole | Stream Sill | Water-Valve |
| High Water | Property Corner | Street Light | Water-Well |
| Hop-Pole | Riprap | Surface Inlet | Water Surface |
| Invert Elev. | Rockery | Tele.-Manhole | Yard Light |
| New road area | | | |
| New asphalt area | | | |
| New gravel area | | | |

NOTES:
1) THESE PLANS ARE FOR THE ESTABLISHMENT OF ROAD RIGHT OF WAY ONLY. PROPERTY BOUNDARIES ARE APPROXIMATE BASED ON BEST AVAILABLE INFORMATION.
2) ROAD APPROACH DESIGNS ARE APPROXIMATE. CHANGES MAY BE MADE BASED ON FINAL DESIGN OF ROADWAY.



CHEYNE ROAD IMPROVEMENT PROJECT
STPR-D395(002)
 CHEYNE ROAD & HIGHLAND DRIVE INTERSECTION
 C 3377

PREPARED UNDER THE DIRECTION OF:



COUNTY ENGINEER
 DATE: 10/9/12

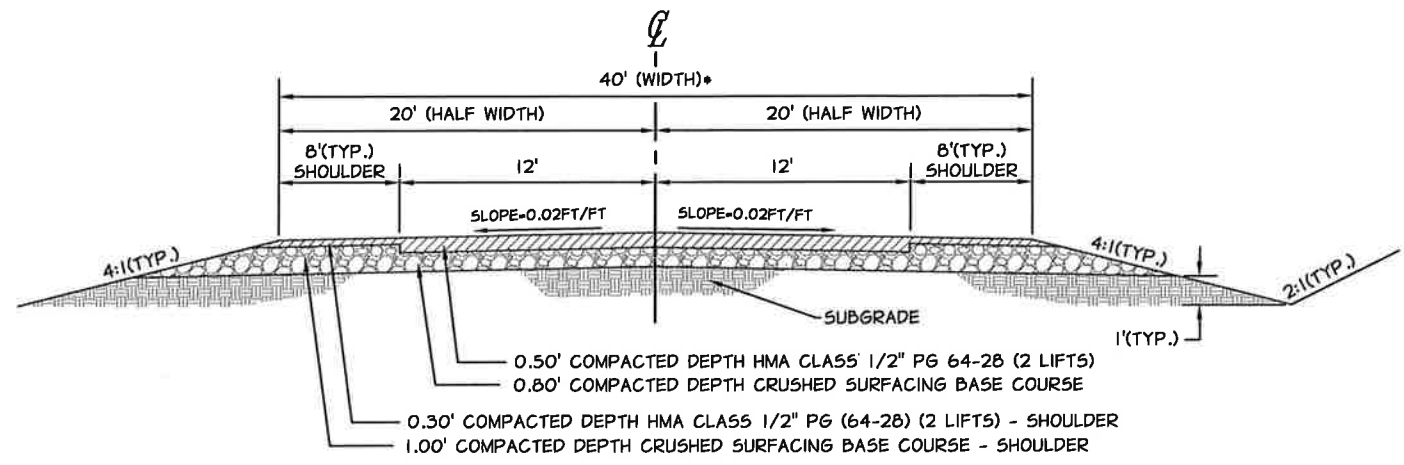
PROJECT ENGINEER:
 KIM PFAFF

DRAWN: J. MATTHEWS
 CHECKED BY: K. PFAFF

REVISION:

TYPICAL ROADWAY SECTIONS

SHEET 2 OF 17

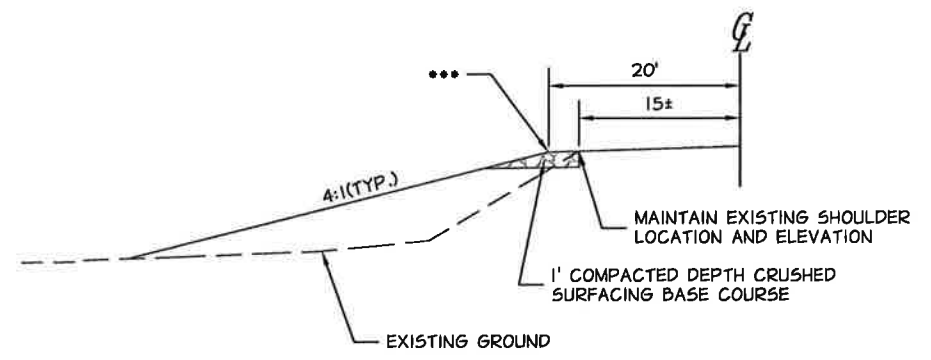


TYPICAL ROADWAY SECTION A

NTS

CHEYNE ROAD: STA. 27+50 TO STA. 34+75
 STA. 43+75 TO STA. 46+17

- CHEYNE ROAD: STA. 34+75 (40' WIDTH) TAPER TO STA. 37+50 (51' WIDTH)
- STA. 41+00 (51' WIDTH) TAPER TO STA. 43+75 (40' WIDTH)
- HIGHLAND DRIVE: STA. 22+25 TO STA. 23+76

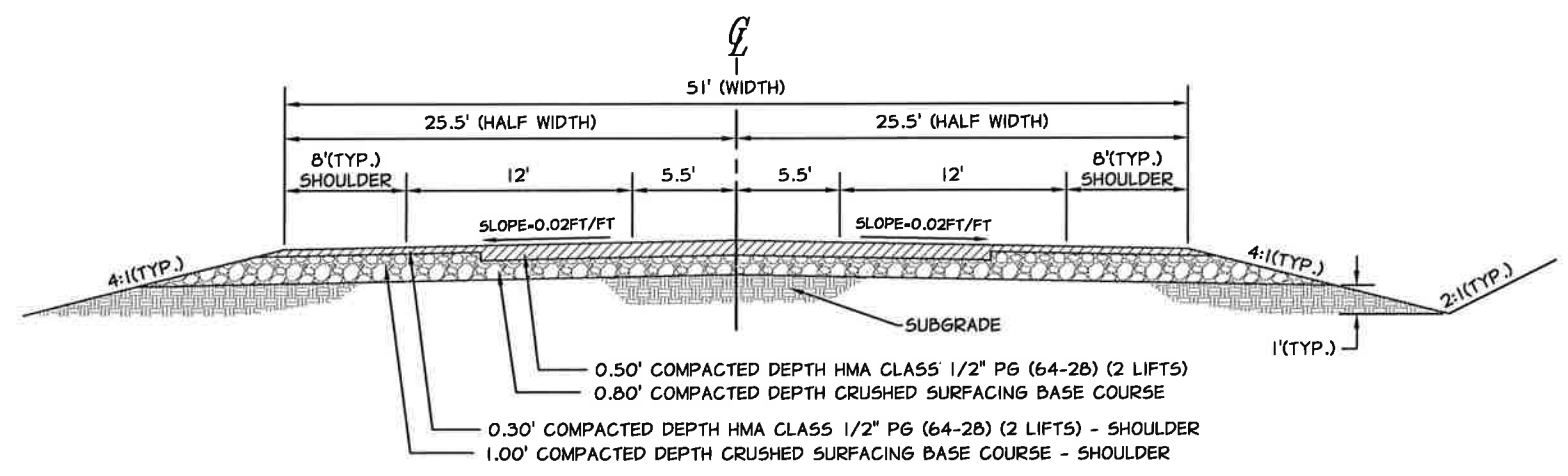


DETAIL SHOULDER REBUILD

NTS

CHEYNE ROAD: STA. 26+65 LT. TO STA. 27+50 LT.

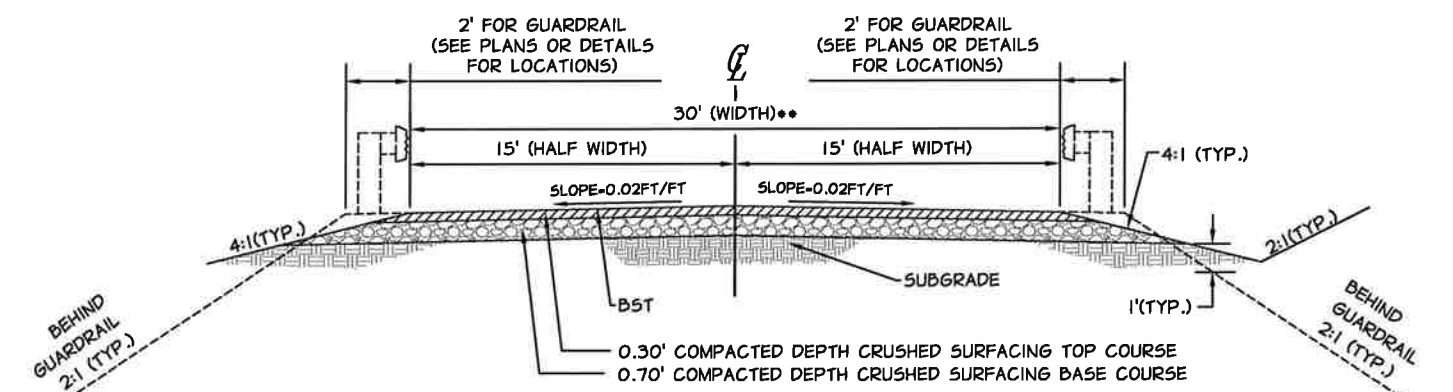
| STATION | OFFSET | SHOULDER ELEVATION |
|---------|---------|--------------------|
| 26+65 | 20' LT. | 917.34 |
| 26+75 | 20' LT. | 917.49 |
| 27+00 | 20' LT. | 917.82 |
| 27+25 | 20' LT. | 918.12 |
| 27+50 | 20' LT. | 918.39 |



TYPICAL ROADWAY SECTION B

NTS

CHEYNE ROAD: STA. 37+50 TO STA. 41+00



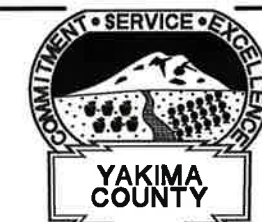
TYPICAL ROADWAY SECTION C

NTS

HIGHLAND DRIVE ROAD: BOP STA. 10+50 TO STA. 22+25
 STA. 23+76 TO STA. 32+25

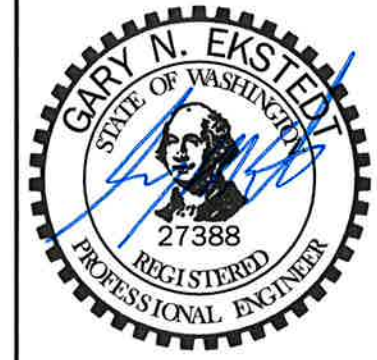
** HIGHLAND DRIVE ROAD: STA. 32+25 (30' WIDTH) TAPER TO EOP STA. 33+00.00 (MATCH EXISTING WIDTH)

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CHEYNE ROAD IMPROVEMENT PROJECT
STPR-D395(002)
 CHEYNE ROAD & HIGHLAND DRIVE INTERSECTION
 C 3377

PREPARED UNDER THE DIRECTION OF:



COUNTY ENGINEER
 DATE: 10/9/12

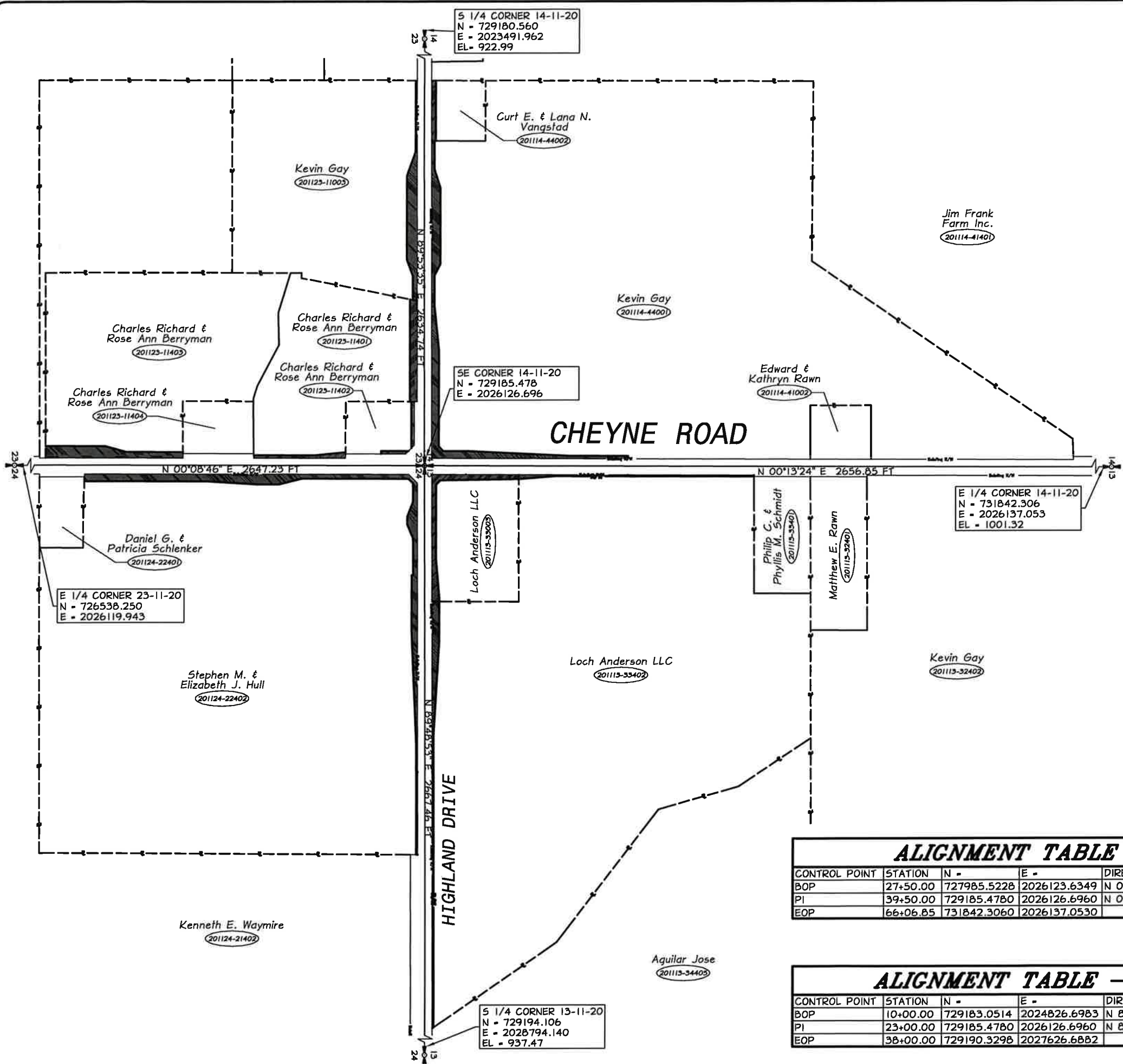
PROJECT ENGINEER:
 KIM PFAFF

DRAWN: J. MATTHEWS
 CHECKED BY: K. PFAFF

| | |
|-----------|--|
| REVISION: | |
| | |
| | |

PROJECT AREA
 PLAN

SHEET 3 OF 17



ALIGNMENT TABLE - CHEYNE ROAD

| CONTROL POINT | STATION | N = | E = | DIRECTION | DISTANCE | DELTA | RADIUS | ARC LENGTH | TANGENT |
|---------------|----------|-------------|--------------|---------------|----------|-------|--------|------------|---------|
| BOP | 27+50.00 | 727985.5228 | 2026123.6349 | N 00°08'46" E | 1200.00 | | | | |
| PI | 39+50.00 | 729185.4780 | 2026126.6960 | N 00°13'24" E | 2656.85 | | | | |
| EOP | 66+06.85 | 731842.3060 | 2026137.0530 | | | | | | |

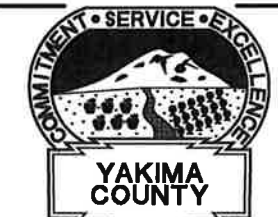
ALIGNMENT TABLE - HIGHLAND DRIVE

| CONTROL POINT | STATION | N = | E = | DIRECTION | DISTANCE | DELTA | RADIUS | ARC LENGTH | TANGENT |
|---------------|----------|-------------|--------------|---------------|----------|-------|--------|------------|---------|
| BOP | 10+00.00 | 729183.0514 | 2024826.6983 | N 89°53'35" E | 1300.00 | | | | |
| PI | 23+00.00 | 729185.4780 | 2026126.6960 | N 89°48'53" E | 1500.00 | | | | |
| EOP | 38+00.00 | 729190.3298 | 2027626.6882 | | | | | | |

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CHEYNE ROAD

SEC. 23, T.11 N., R.20E., W.M.



CHEYNE ROAD IMPROVEMENT PROJECT
STPR-D395(002)
 CHEYNE ROAD & HIGHLAND DRIVE INTERSECTION
 C 3377

PREPARED UNDER THE DIRECTION OF:

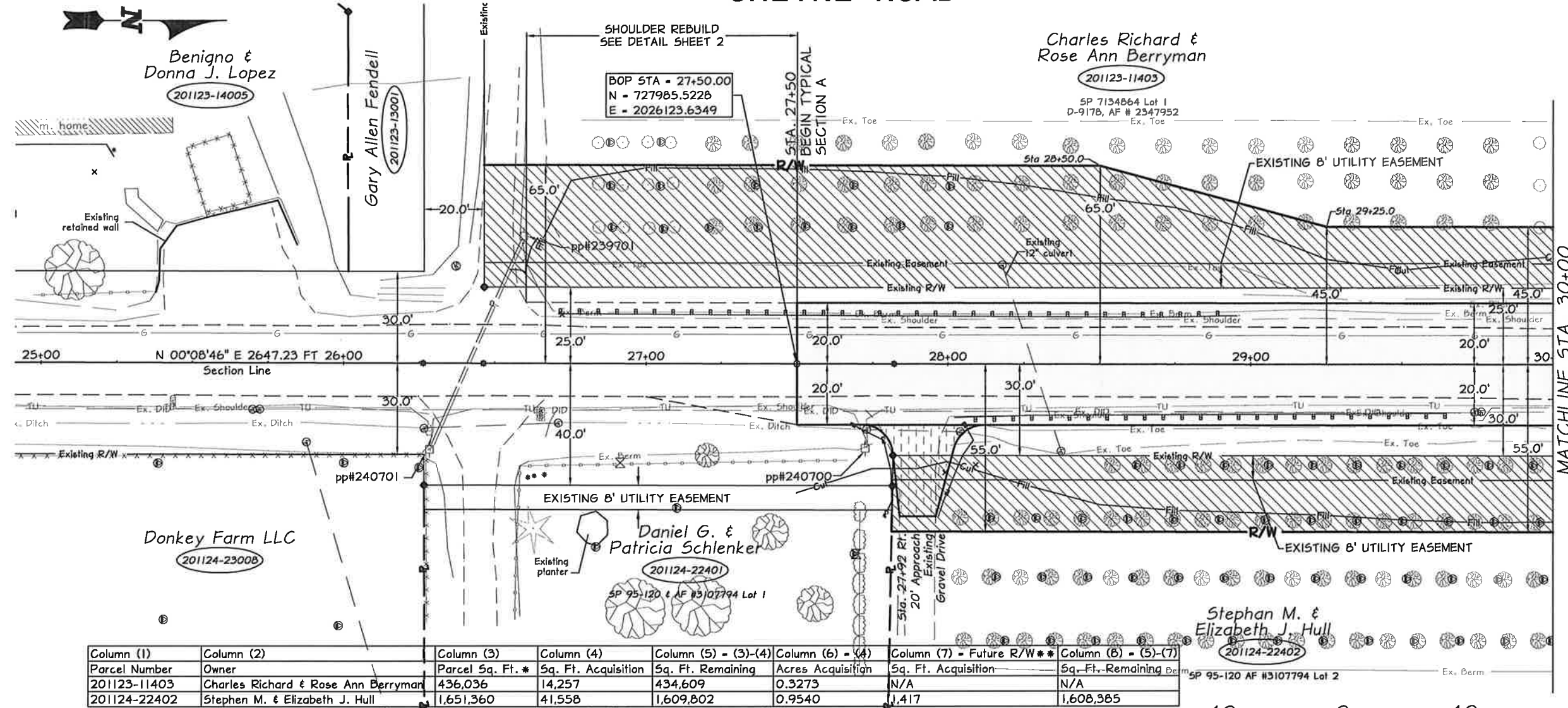


COUNTY ENGINEER
 DATE: 2/21/13

PROJECT ENGINEER:
 KIM PFAFF
 DRAWN:
 J. MATTHEWS
 CHECKED BY:
 K. PFAFF
 REVISION:

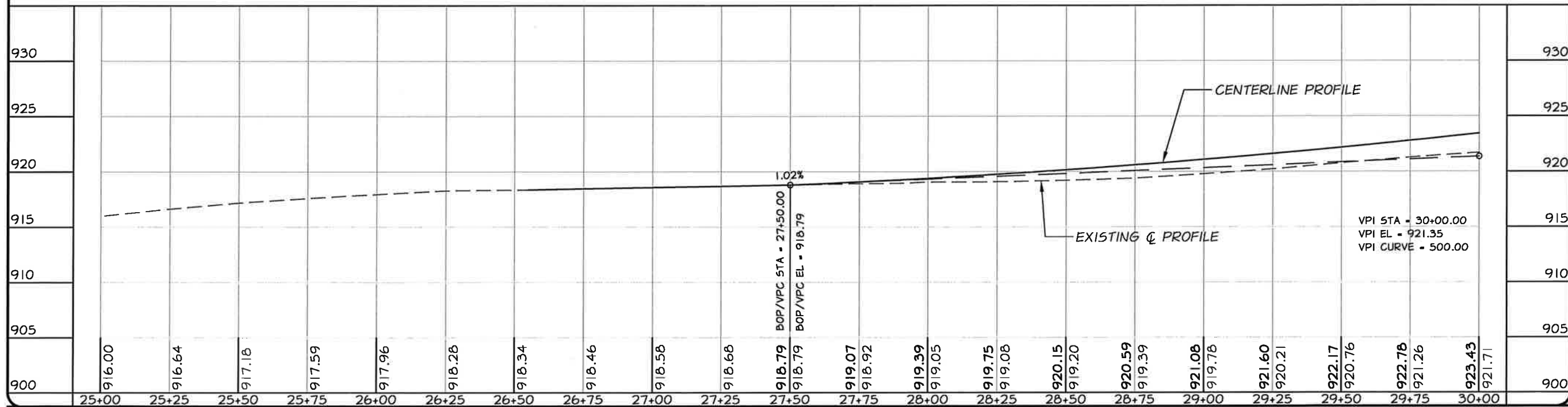
RIGHT OF WAY PLANS
 BOP STA. 27+50.00
 TO
 STA. 30+00

SHEET 4 OF 17



| Column (1) | Column (2) | Column (3) | Column (4) | Column (5) = (3)-(4) | Column (6) = (4) | Column (7) = Future R/W** | Column (8) = (5)-(7) |
|---------------|-------------------------------------|-----------------|---------------------|----------------------|-------------------|---------------------------|----------------------|
| Parcel Number | Owner | Parcel Sq. Ft.* | Sq. Ft. Acquisition | Sq. Ft. Remaining | Acres Acquisition | Sq. Ft. Acquisition | Sq. Ft. Remaining |
| 201123-11403 | Charles Richard & Rose Ann Berryman | 436,036 | 14,257 | 434,609 | 0.3273 | N/A | N/A |
| 201124-22402 | Stephen M. & Elizabeth J. Hull | 1,651,360 | 41,558 | 1,609,802 | 0.9540 | 1,417 | 1,608,385 |

* - Parcel Sq. Ft. based on Assessors web site.
 ** - R/W Acquisition area for future road improvements



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CHEYNE ROAD IMPROVEMENT PROJECT
STPR-D395(002)
 CHEYNE ROAD & HIGHLAND DRIVE INTERSECTION
 C 3377

PREPARED UNDER THE DIRECTION OF:



COUNTY ENGINEER
 DATE: 10/9/12

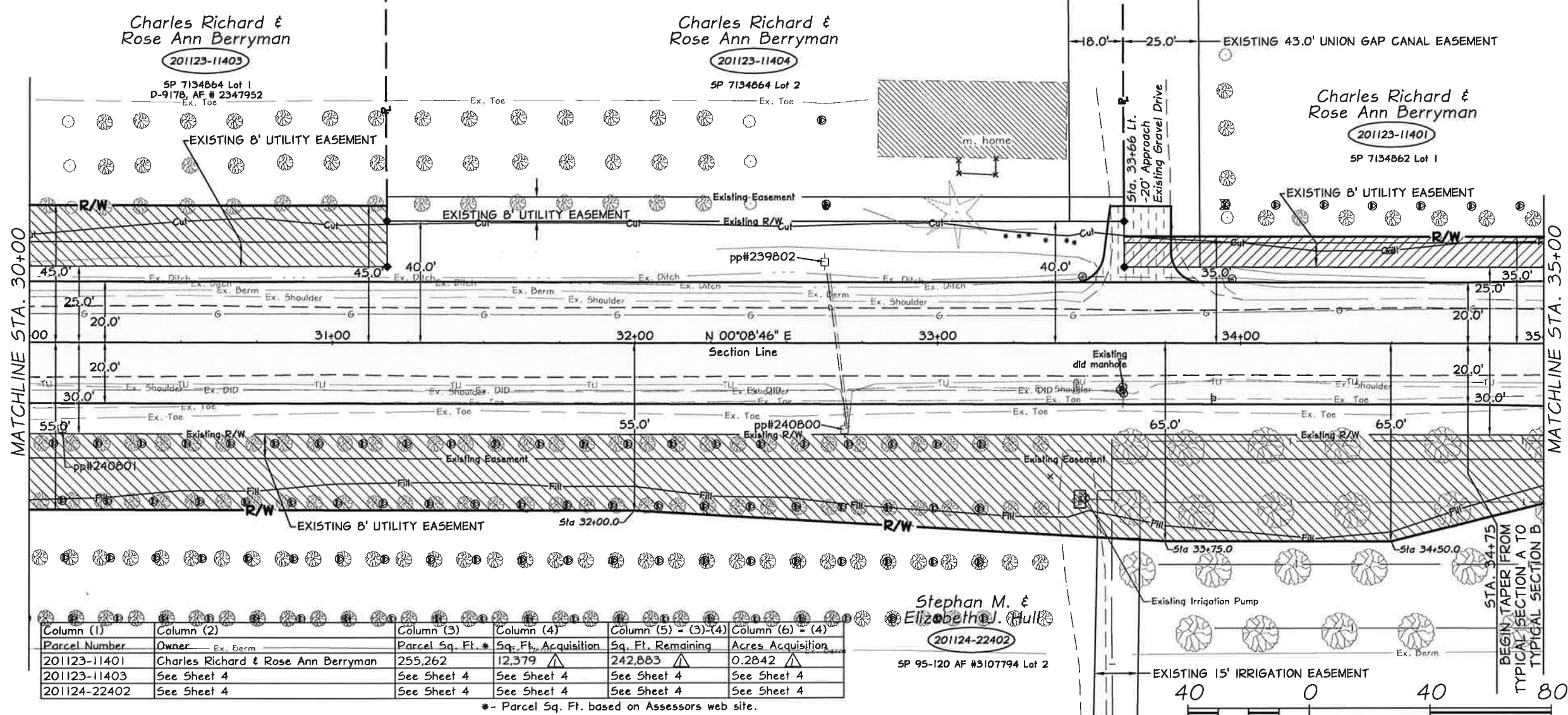
PROJECT ENGINEER:
 KIM PFAFF
 DRAWN: J. MATTHEWS
 CHECKED BY: K. PFAFF
 REVISION: 11-02-15
 Revised R/W table

RIGHT OF WAY PLANS
 STA. 30+00
 TO
 STA. 35+00

SHEET 5 OF 17

SEC. 23, T.11 N., R.20E., W.M.

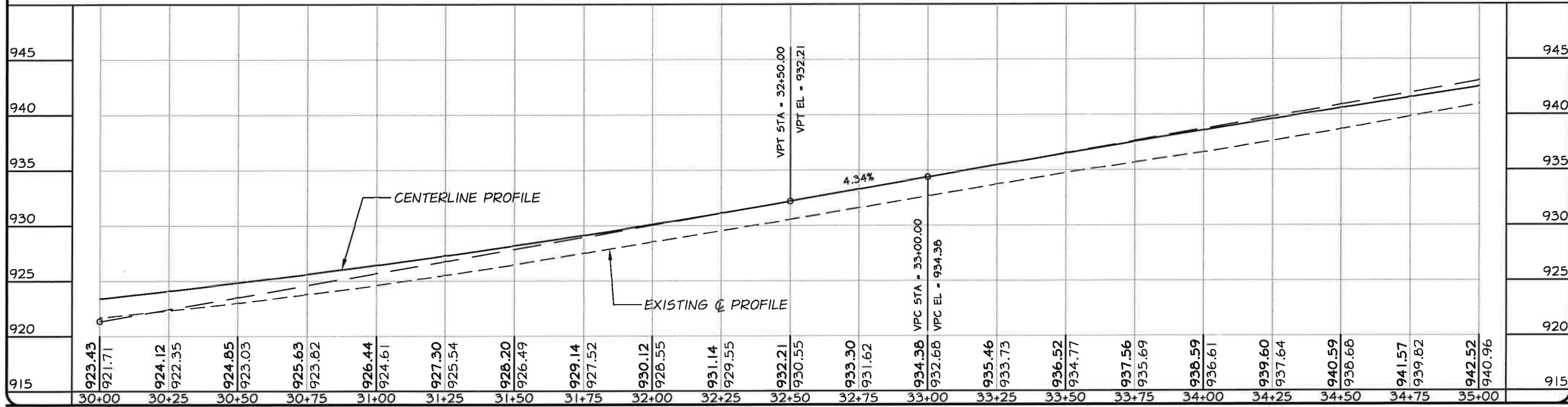
CHEYNE ROAD



| Column (1) | Column (2) | Column (3) | Column (4) | Column (5) = (3)-(4) | Column (6) = (4) |
|---------------|-------------------------------------|------------------|---------------------|----------------------|-------------------|
| Parcel Number | Owner | Parcel Sq. Ft. * | Sq. Ft. Acquisition | Sq. Ft. Remaining | Acres Acquisition |
| 201123-11401 | Charles Richard & Rose Ann Berryman | 255,262 | 12,379 | 242,883 | 0.2842 |
| 201123-11403 | See Sheet 4 | See Sheet 4 | See Sheet 4 | See Sheet 4 | See Sheet 4 |
| 201124-22402 | See Sheet 4 | See Sheet 4 | See Sheet 4 | See Sheet 4 | See Sheet 4 |

* - Parcel Sq. Ft. based on Assessors web site.

SEC. 24, T.11 N., R.20E., W.M.



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SEC. 23, T.11 N., R.20E., W.M.

CHEYNE ROAD



CHEYNE ROAD IMPROVEMENT PROJECT
STPR-D395(002)
 CHEYNE ROAD & HIGHLAND DRIVE INTERSECTION
 C 3377

PREPARED UNDER THE DIRECTION OF:



COUNTY ENGINEER
 DATE: 10/9/12

PROJECT ENGINEER:
 KIM PFAFF

DRAWN: J. MATTHEWS
 CHECKED BY: K. PFAFF

REVISION:

RIGHT OF WAY PLANS
 STA. 35+00
 TO
 STA. 38+50

SHEET 6 OF 17

Charles Richard & Rose Ann Berryman
 201123-11401

SP 7134862 Lot 1

Charles Richard & Rose Ann Berryman
 201123-11402

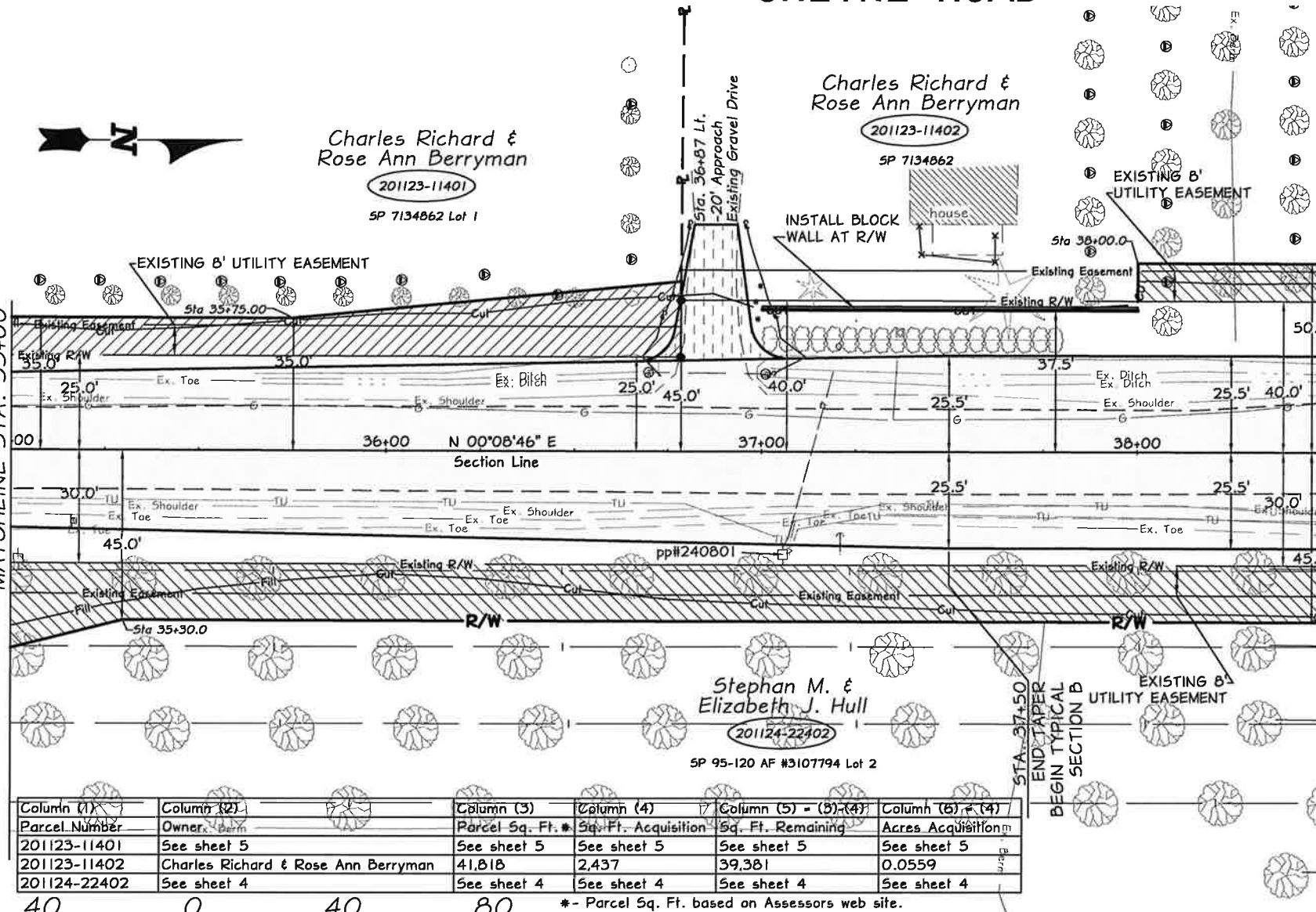
SP 7134862

Stephan M. & Elizabeth J. Hull
 201124-22402

SP 95-120 AF #3107794 Lot 2

MATCHLINE STA. 35+00

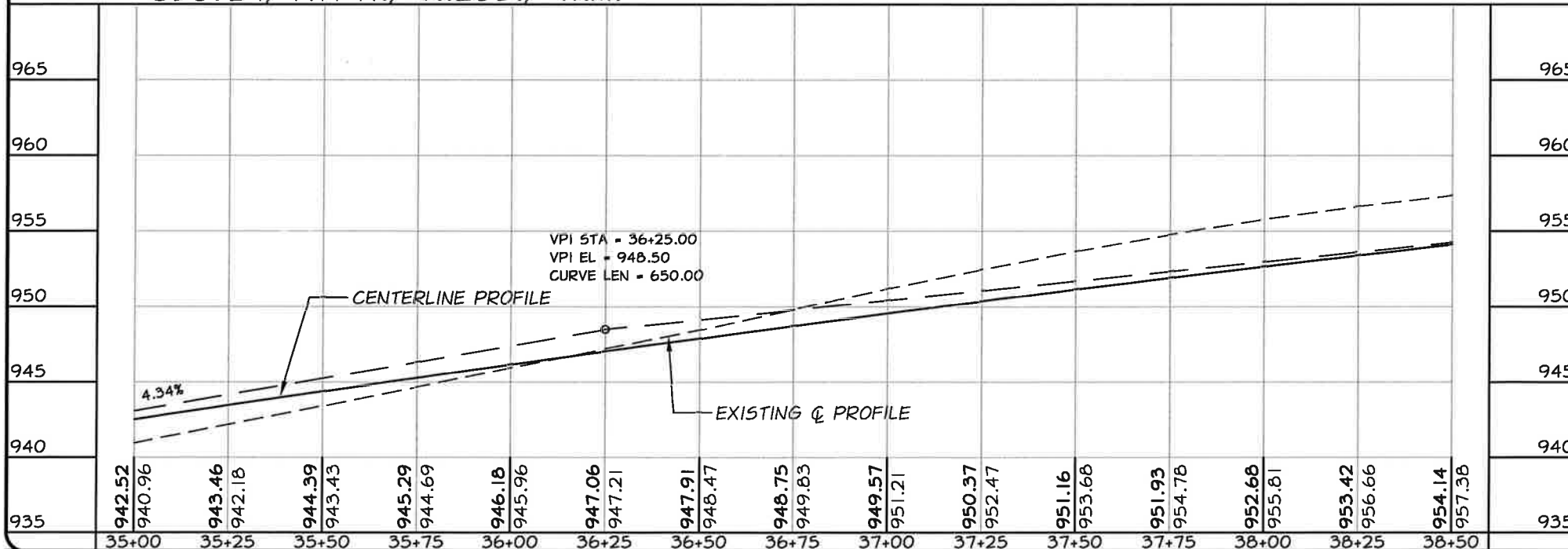
MATCHLINE STA. 38+50



| Column (1) | Column (2) | Column (3) | Column (4) | Column (5) = (3)-(4) | Column (6) = (4) |
|---------------|-------------------------------------|------------------|---------------------|----------------------|-------------------|
| Parcel Number | Owner | Parcel Sq. Ft. * | Sq. Ft. Acquisition | Sq. Ft. Remaining | Acres Acquisition |
| 201123-11401 | See sheet 5 | See sheet 5 | See sheet 5 | See sheet 5 | See sheet 5 |
| 201123-11402 | Charles Richard & Rose Ann Berryman | 41,818 | 2,437 | 39,381 | 0.0559 |
| 201124-22402 | See sheet 4 | See sheet 4 | See sheet 4 | See sheet 4 | See sheet 4 |

40 0 40 80 * - Parcel Sq. Ft. based on Assessors web site.

SEC. 24, T.11 N., R.20E., W.M.



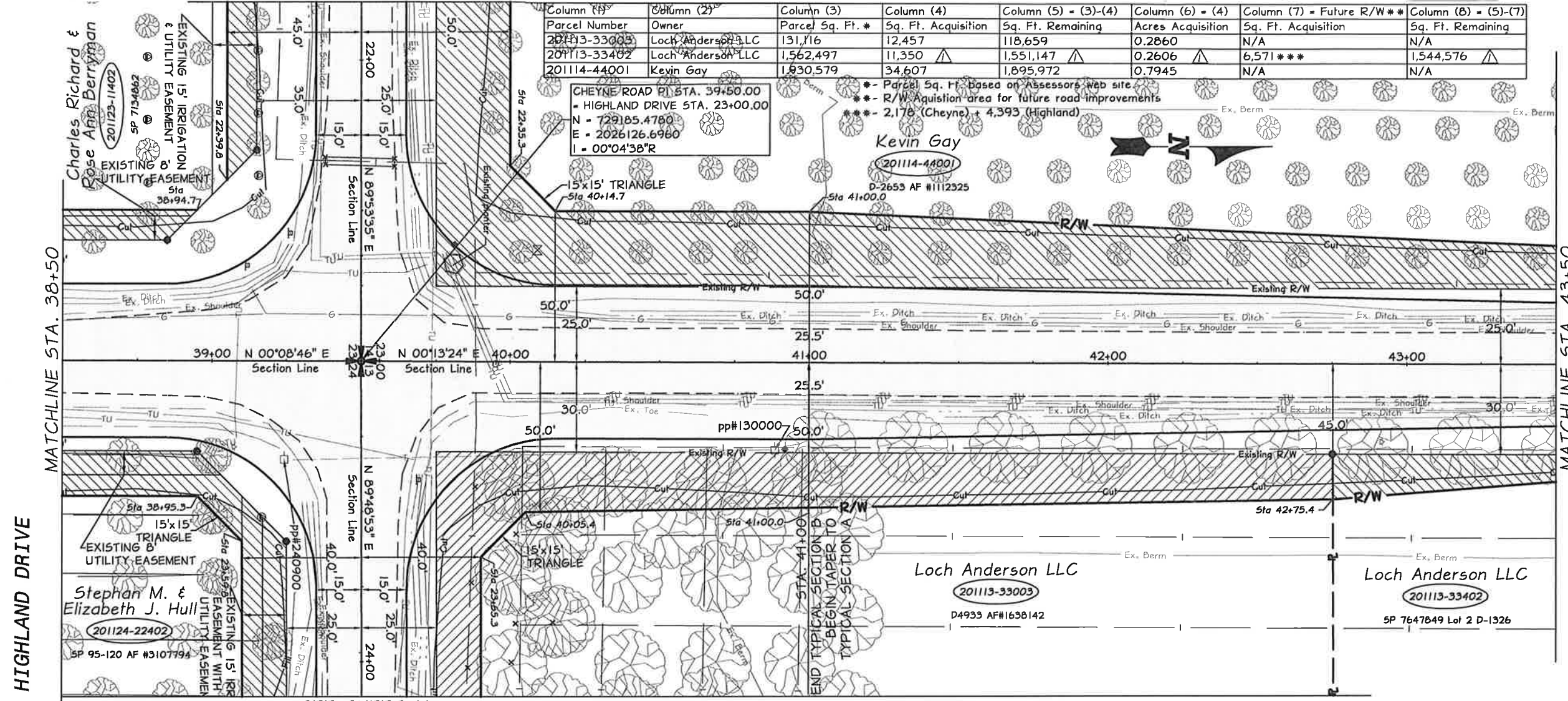
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| Column (1) | Column (2) | Column (3) | Column (4) | Column (5) = (3)-(4) | Column (6) = (4) | Column (7) = Future R/W** | Column (8) = (5)-(7) |
|---------------|-------------------|------------------|---------------------|----------------------|-------------------|---------------------------|----------------------|
| Parcel Number | Owner | Parcel Sq. Ft. * | Sq. Ft. Acquisition | Sq. Ft. Remaining | Acres Acquisition | Sq. Ft. Acquisition | Sq. Ft. Remaining |
| 201113-33005 | Loch Anderson LLC | 131,116 | 12,457 | 118,659 | 0.2860 | N/A | N/A |
| 201113-33402 | Loch Anderson LLC | 1,562,497 | 11,350 | 1,551,147 | 0.2606 | 6,571*** | 1,544,576 |
| 201114-44001 | Kevin Gay | 1,930,579 | 34,607 | 1,895,972 | 0.7945 | N/A | N/A |

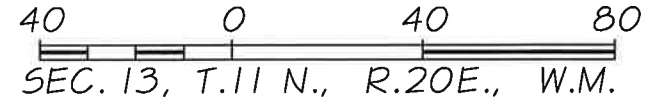
CHEYNE ROAD R/L STA. 39+50.00
 = HIGHLAND DRIVE STA. 23+00.00
 N = 729185.4780
 E = 2026126.6980
 L = 00°04'38"R

* - Parcel Sq. Ft. based on Assessor's web site.
 ** - R/W Acquisition area for future road improvements
 *** - 2,178 (Cheyne) + 4,393 (Highland)



HIGHLAND DRIVE

SEE SHEET 11

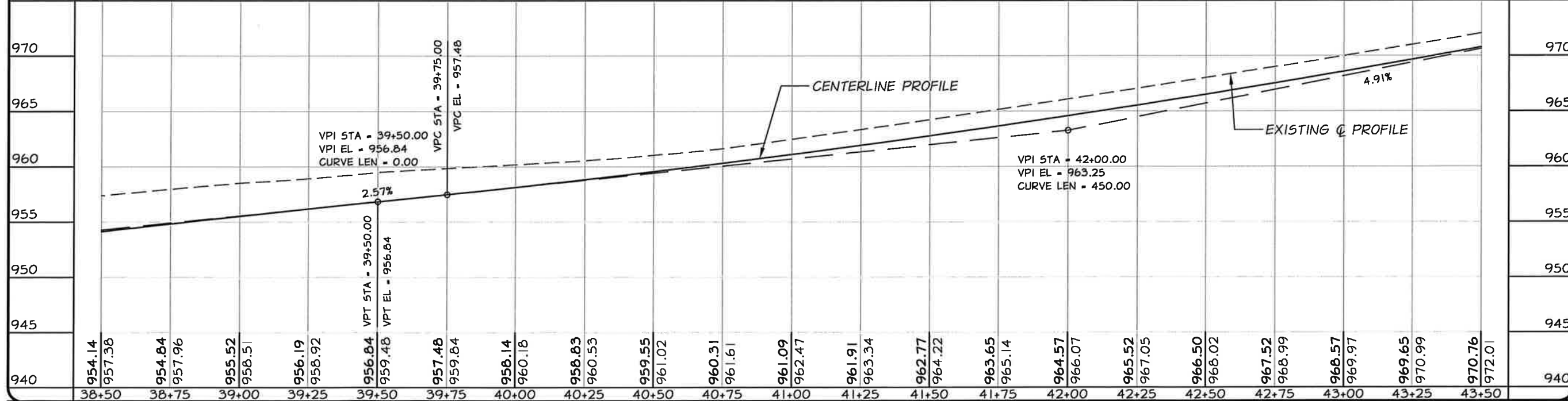


CHEYNE ROAD
 IMPROVEMENT
 PROJECT
 STPR-D395(002)
 CHEYNE ROAD &
 HIGHLAND DRIVE
 INTERSECTION
 C 3377

PREPARED UNDER
 THE DIRECTION OF:



COUNTY ENGINEER
 DATE: 2/2/13



| | |
|---|-------------------------|
| PROJECT ENGINEER: KIM PFAFF | |
| DRAWN: J. MATTHEWS | CHECKED BY: K. PFAFF |
| REVISION: 11-02-15 Δ - Revised R/W table | |

RIGHT OF WAY PLANS
 STA. 38+50
 TO
 STA. 43+50

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CHEYNE ROAD

SEC. 14, T.11 N., R.20E., W.M.

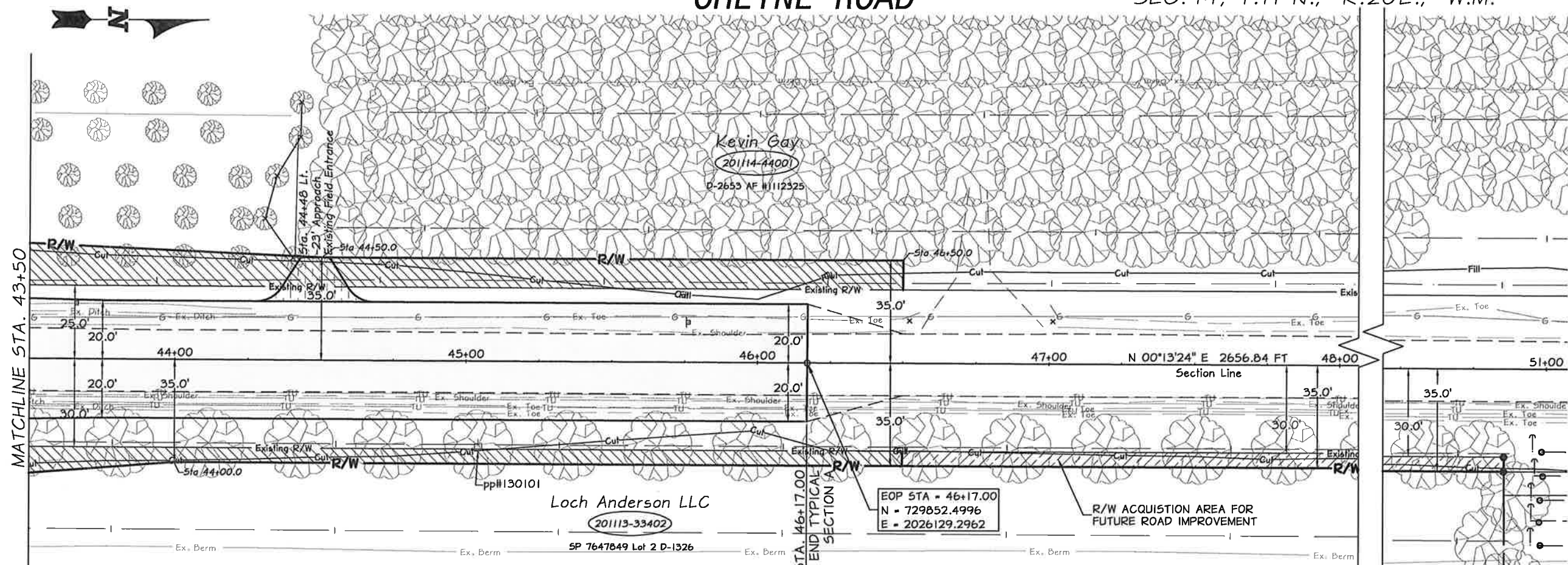


**CHEYNE ROAD
IMPROVEMENT
PROJECT**
STPR-D395(002)
CHEYNE ROAD &
HIGHLAND DRIVE
INTERSECTION
C 3377

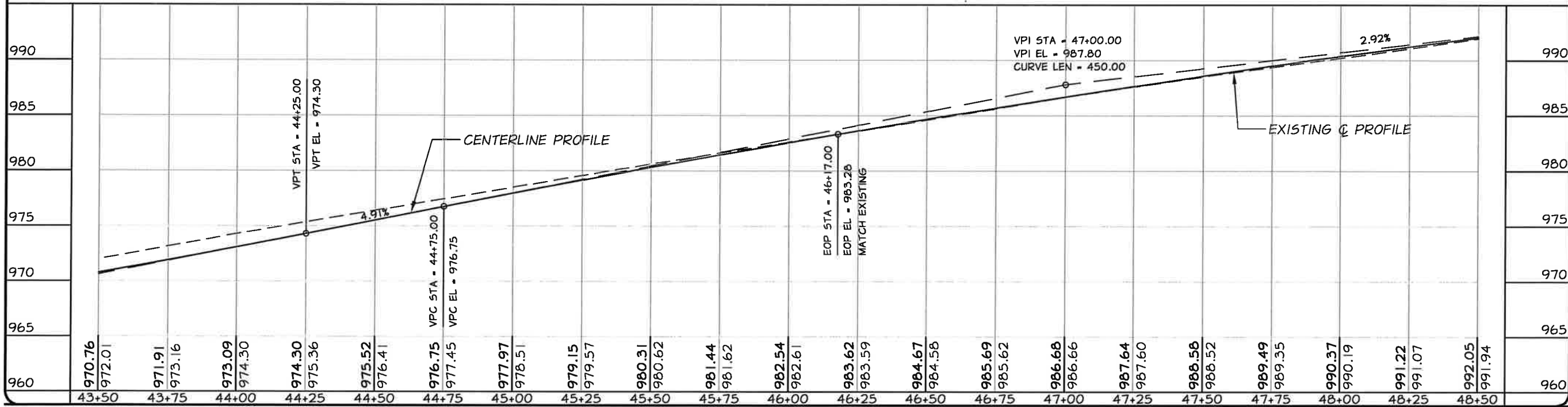
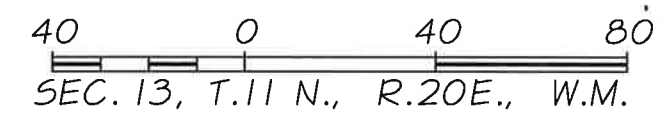
PREPARED UNDER
THE DIRECTION OF:



COUNTY ENGINEER
DATE: 2/21/13



| Column (1) | Column (2) | Column (3) | Column (4) | Column (5) = (3)-(4) | Column (6) = (4) | Column (7) = Future R/W | Column (8) = (5)-(7) |
|---------------|-------------|----------------|---------------------|----------------------|-------------------|-------------------------|----------------------|
| Parcel Number | Owner | Parcel Sq. Ft. | Sq. Ft. Acquisition | Sq. Ft. Remaining | Acres Acquisition | Sq. Ft. Acquisition | Sq. Ft. Remaining |
| 20113-33402 | See sheet 7 | See sheet 7 | See sheet 7 | See sheet 7 | See sheet 7 | See sheet 7 | See sheet 7 |
| 20114-44001 | See sheet 7 | See sheet 7 | See sheet 7 | See sheet 7 | See sheet 7 | See sheet 7 | See sheet 7 |



PROJECT ENGINEER:
KIM PFAFF
DRAWN:
J. MATTHEWS
CHECKED BY:
K. PFAFF
REVISION:

RIGHT OF WAY PLANS
STA. 43+50
TO
EOP STA. 46+17.00

SHEET 8 OF 17

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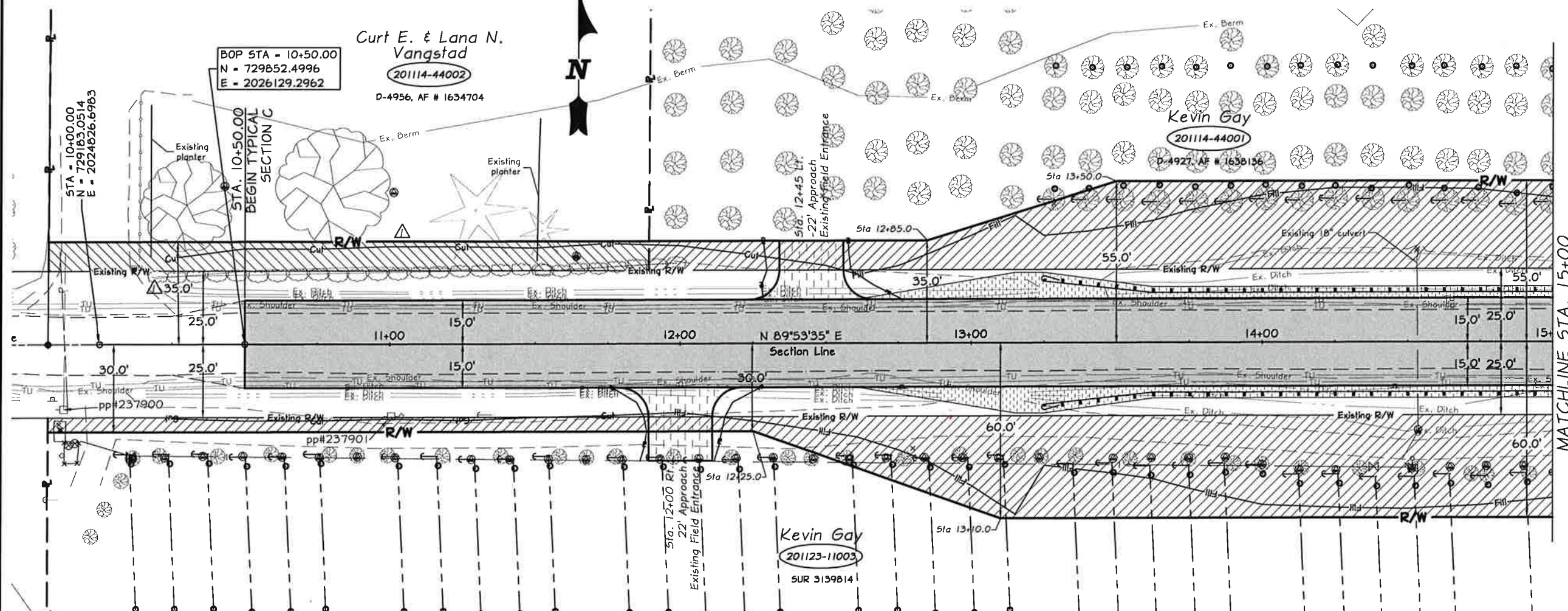
HIGHLAND DRIVE

SEC. 14, T.11 N., R.20E., W.M.

Curt E. & Lana N. Vangstad
201114-44002
D-4956, AF # 1634704

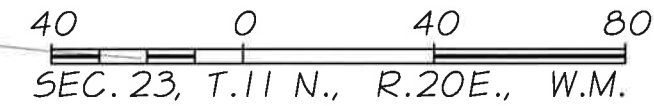
Kevin Gay
201114-44001
D-4927, AF # 1630136

Kevin Gay
201123-11003
SUR 3139814



| Column (1) | Column (2) | Column (3) | Column (4) | Column (5) = (3)-(4) | Column (6) = (4) |
|---------------|----------------------------|------------------|---------------------|----------------------|-------------------|
| Parcel Number | Owner | Parcel Sq. Ft. * | Sq. Ft. Acquisition | Sq. Ft. Remaining | Acres Acquisition |
| 201114-44001 | See sheet 7 | See sheet 7 | See sheet 7 | See sheet 7 | See sheet 7 |
| 201114-44002 | Curt E. & Lana N. Vangstad | 36,155 | 2,064 Δ | 34,091 Δ | 0.0474 Δ |
| 201123-11003 | Kevin Gay | 536,738 | 15,525 | 521,213 | 0.3564 |

Ex. Derm * - Parcel Sq. Ft. based on Assessors web site.



CHEYNE ROAD IMPROVEMENT PROJECT
STPR-D395(002)
CHEYNE ROAD & HIGHLAND DRIVE INTERSECTION
C 3377

PREPARED UNDER THE DIRECTION OF:

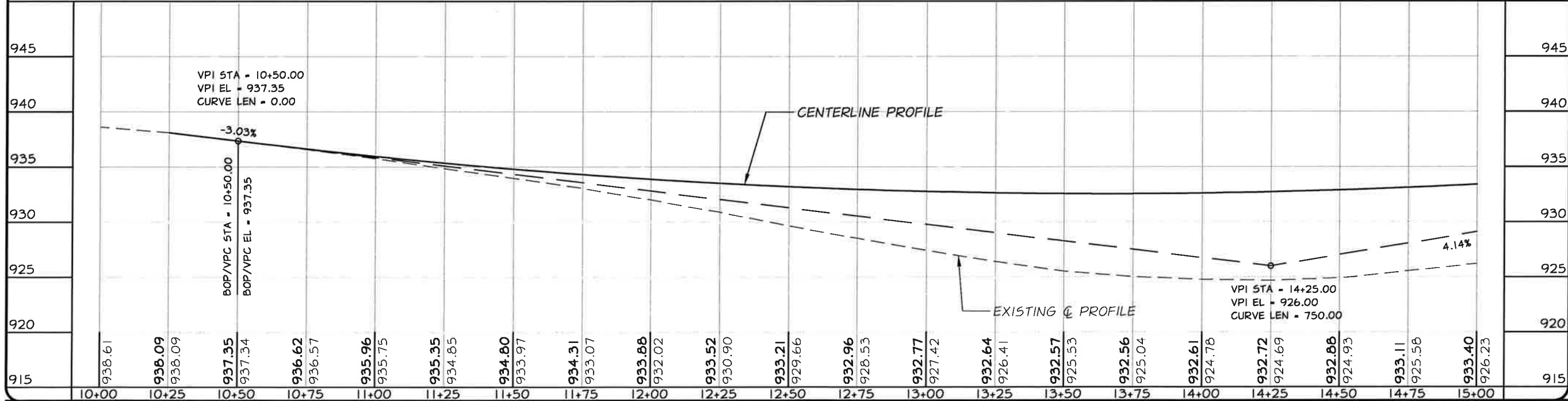


COUNTY ENGINEER
DATE: 8/22/13

PROJECT ENGINEER:
KIM PFAFF
DRAWN: J. MATTHEWS
CHECKED BY: K. PFAFF
REVISION: Δ - Revised R/W 8-22-13.

RIGHT OF WAY PLANS
BOP STA. 10+50.00
TO
STA. 15+00

SHEET 9 OF 17



Q:\engine\point software\3377 cheyne-highland\ep drawing\RCp01101.dwg, Layout1, 8/22/2013 2:16:59 PM

HIGHLAND DRIVE

SEC. 14, T.11 N., R.20E., W.M.



CHEYNE ROAD IMPROVEMENT PROJECT
STPR-D395(002)
CHEYNE ROAD & HIGHLAND DRIVE INTERSECTION
C 3377

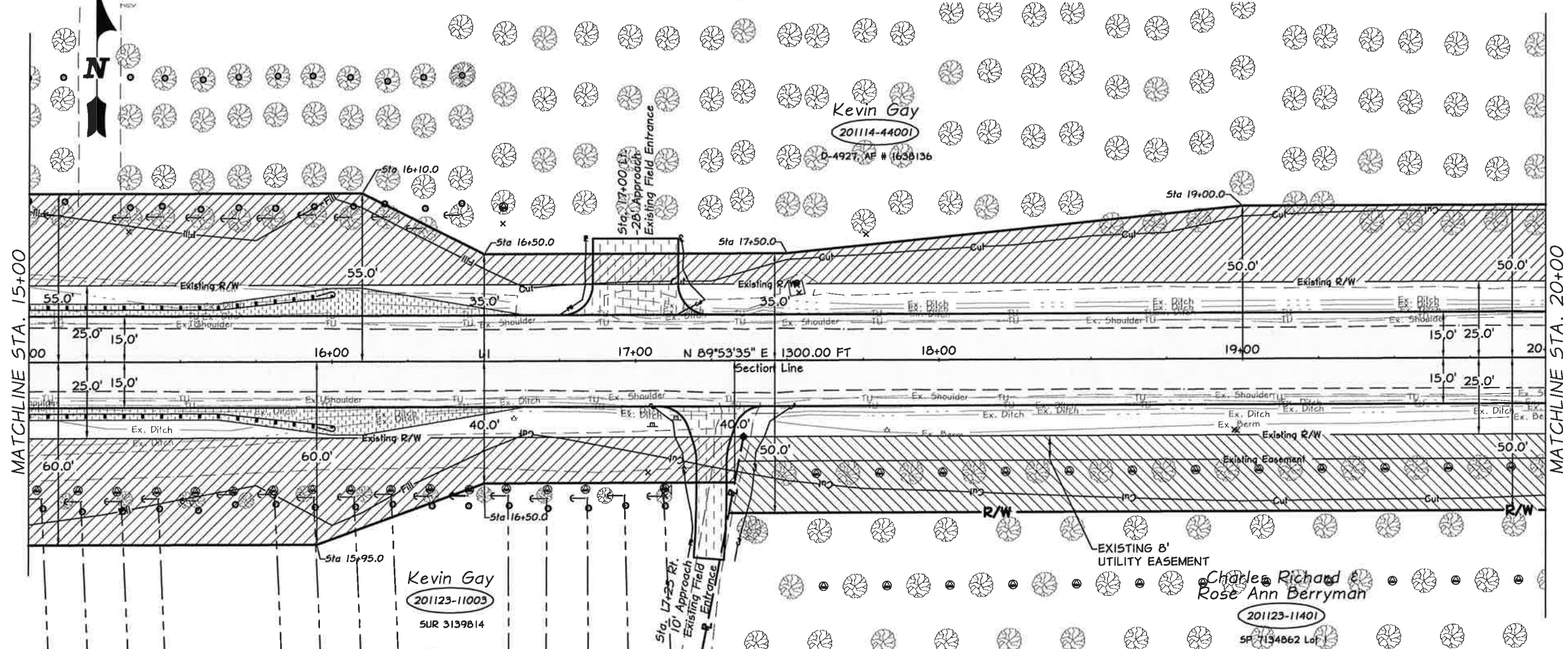
PREPARED UNDER THE DIRECTION OF:



COUNTY ENGINEER
DATE: 10/9/12

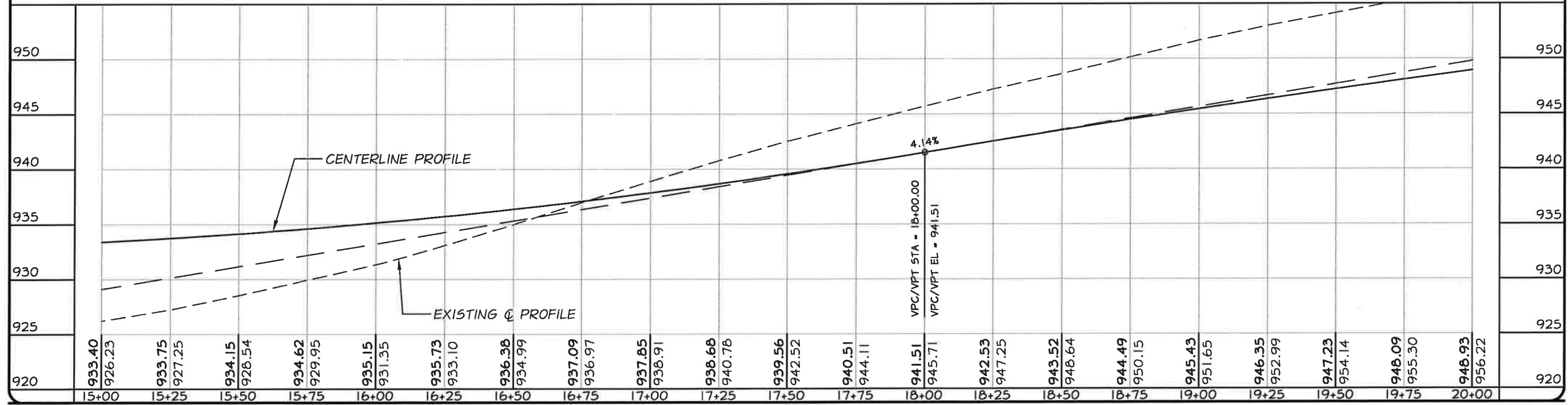
MATCHLINE STA. 15+00

MATCHLINE STA. 20+00



| Column (1) | Column (2) | Column (3) | Column (4) | Column (5) = (3)-(4) | Column (6) = (4) |
|---------------|-------------|----------------|---------------------|----------------------|-------------------|
| Parcel Number | Owner | Parcel Sq. Ft. | Sq. Ft. Acquisition | Sq. Ft. Remaining | Acres Acquisition |
| 201114-44001 | See sheet 9 | See sheet 9 | See sheet 9 | See sheet 9 | See sheet 9 |
| 201123-11003 | See sheet 9 | See sheet 9 | See sheet 9 | See sheet 9 | See sheet 9 |
| 201123-11401 | See sheet 5 | See sheet 5 | See sheet 5 | See sheet 5 | See sheet 5 |

SEC. 23, T.11 N., R.20E., W.M.



PROJECT ENGINEER:
KIM PFAFF

DRAWN: J. MATTHEWS CHECKED BY: K. PFAFF

REVISION:

RIGHT OF WAY PLANS
STA. 15+00
TO
STA. 20+00

SHEET 10 OF 17

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HIGHLAND DRIVE

SEE SHEET 7

SEC. 14, T.11 N., R.20E., W.M.



CHEYNE ROAD IMPROVEMENT PROJECT
 STPR-D395(002)
 CHEYNE ROAD & HIGHLAND DRIVE INTERSECTION
 C 3377

PREPARED UNDER THE DIRECTION OF:

COUNTY ENGINEER
 DATE: 10/9/12

PROJECT ENGINEER:
 KIM PFAFF

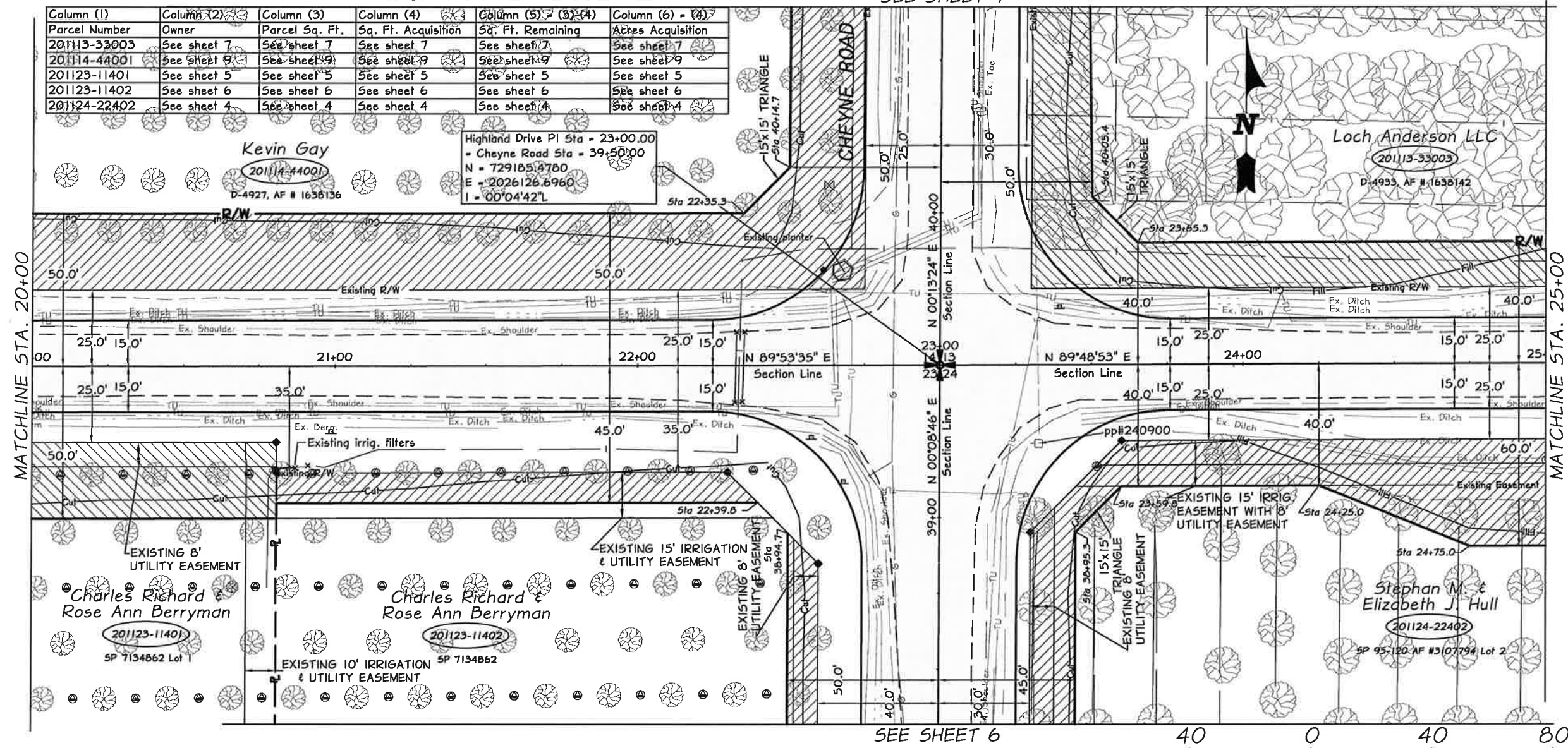
DRAWN: J. MATTHEWS
 CHECKED BY: K. PFAFF

REVISION:

RIGHT OF WAY PLANS
 STA. 20+00 TO STA. 25+00

SHEET 11 OF 17

| Column (1) | Column (2) | Column (3) | Column (4) | Column (5) - (3)-(4) | Column (6) - (4) |
|---------------|-------------|----------------|---------------------|----------------------|-------------------|
| Parcel Number | Owner | Parcel Sq. Ft. | Sq. Ft. Acquisition | Sq. Ft. Remaining | Acres Acquisition |
| 20113-33003 | See sheet 7 | See sheet 7 | See sheet 7 | See sheet 7 | See sheet 7 |
| 20114-44001 | See sheet 9 | See sheet 9 | See sheet 9 | See sheet 9 | See sheet 9 |
| 201123-11401 | See sheet 5 | See sheet 5 | See sheet 5 | See sheet 5 | See sheet 5 |
| 201123-11402 | See sheet 6 | See sheet 6 | See sheet 6 | See sheet 6 | See sheet 6 |
| 201124-22402 | See sheet 4 | See sheet 4 | See sheet 4 | See sheet 4 | See sheet 4 |

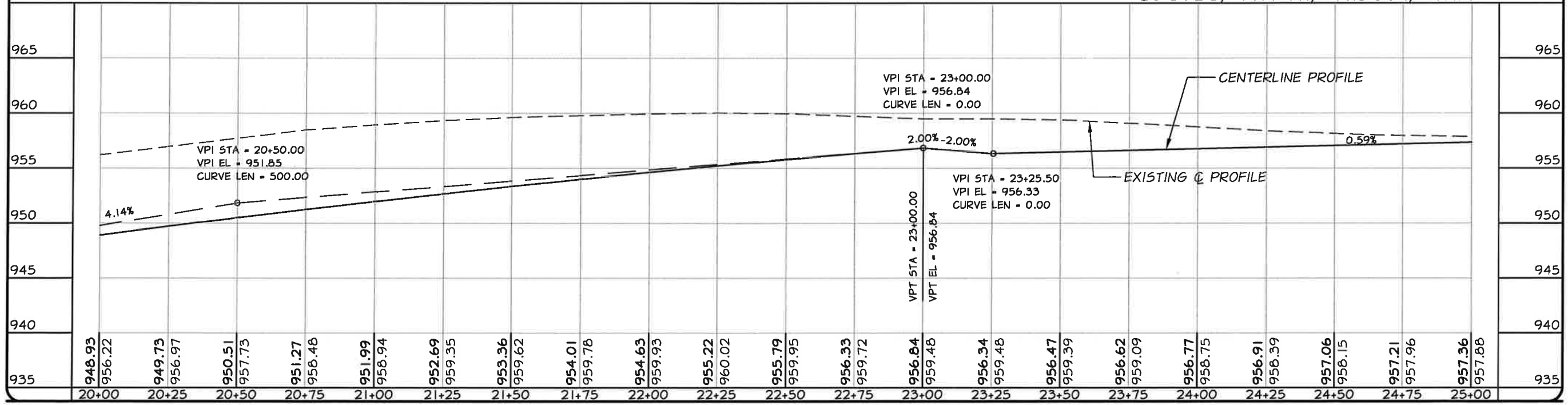


MATCHLINE STA. 20+00

MATCHLINE STA. 25+00

SEE SHEET 6

40 0 40 80
 SEC. 23, T.11 N., R.20E., W.M.



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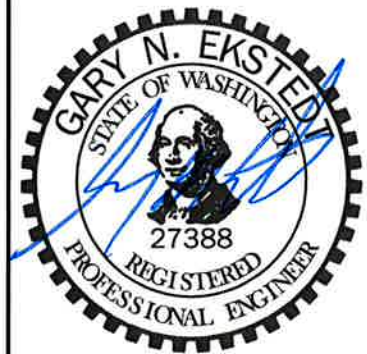
HIGHLAND DRIVE

SEC. 13, T.11 N., R.20E., W.M.



CHEYNE ROAD IMPROVEMENT PROJECT
STPR-D395(002)
CHEYNE ROAD & HIGHLAND DRIVE INTERSECTION
C 3377

PREPARED UNDER THE DIRECTION OF:



COUNTY ENGINEER
DATE: 10/9/12

PROJECT ENGINEER:
KIM PFAFF

DRAWN: J. MATTHEWS
CHECKED BY: K. PFAFF

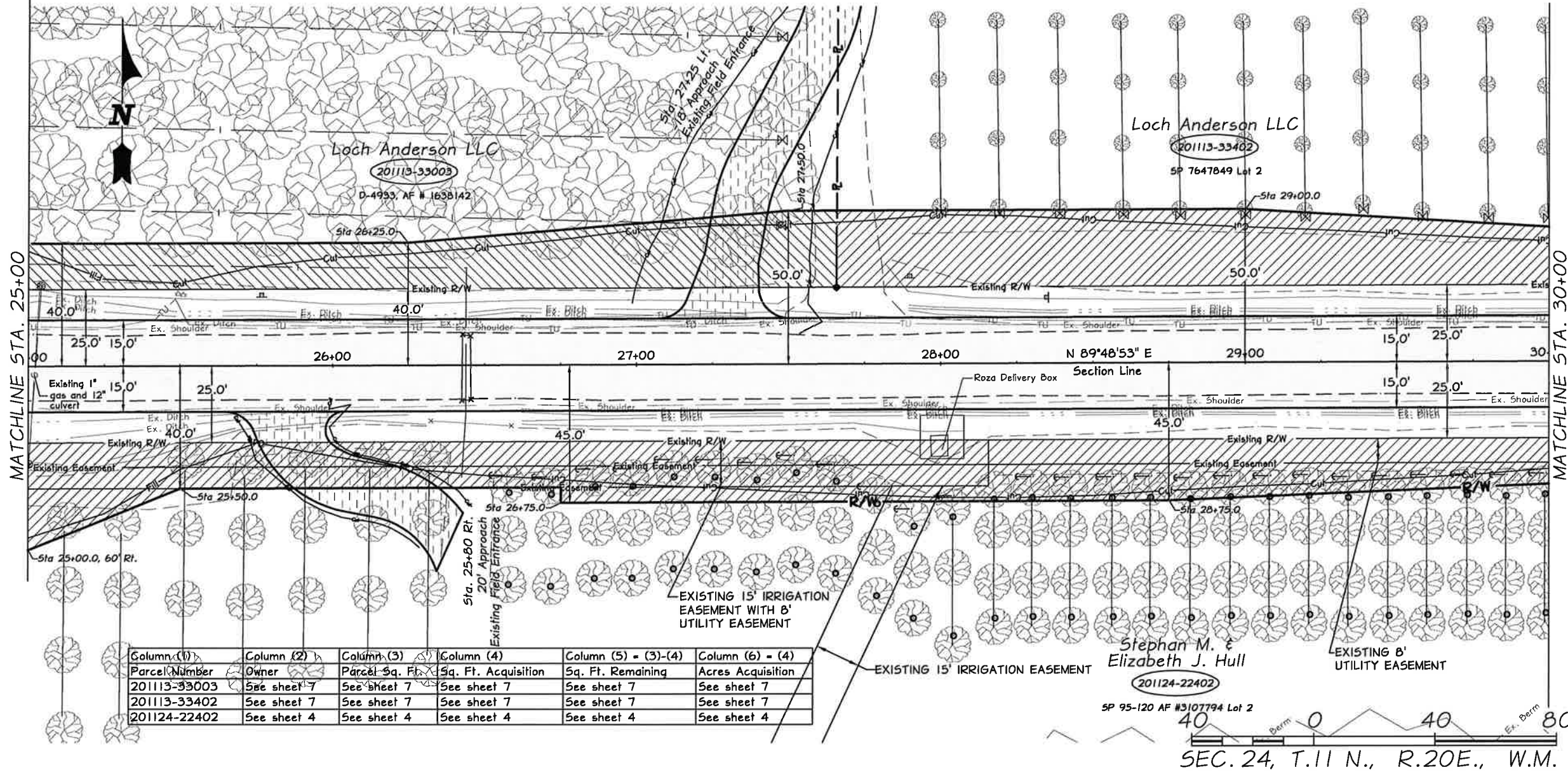
REVISION:

RIGHT OF WAY PLANS
STA. 25+00
TO
STA. 30+00

SHEET 12 OF 17

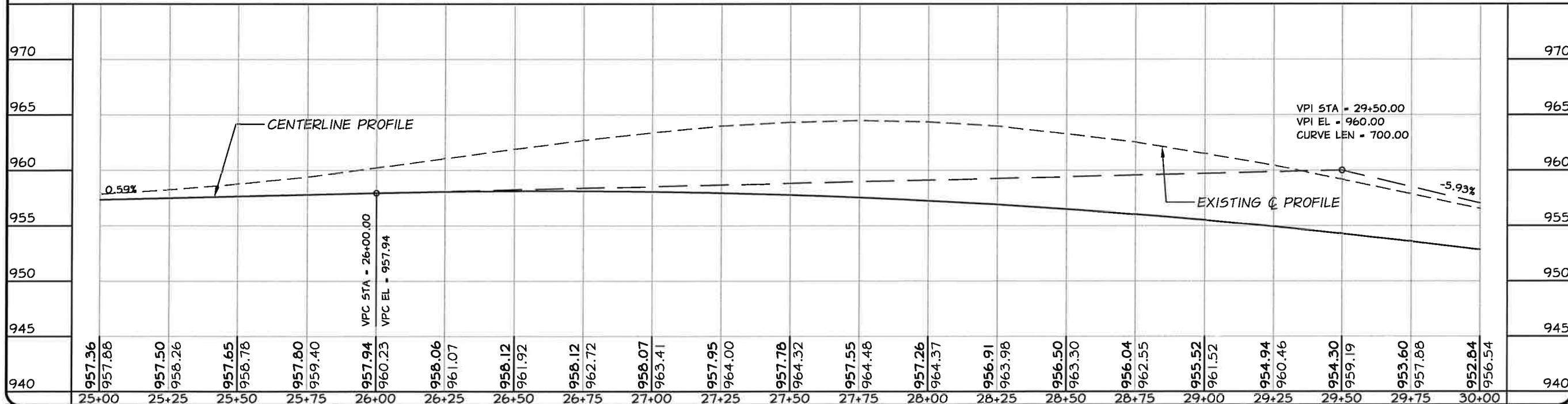
MATCHLINE STA. 25+00

MATCHLINE STA. 30+00



| Column (1) | Column (2) | Column (3) | Column (4) | Column (5) = (3)-(4) | Column (6) = (4) |
|---------------|-------------|----------------|---------------------|----------------------|-------------------|
| Parcel Number | Owner | Parcel Sq. Ft. | Sq. Ft. Acquisition | Sq. Ft. Remaining | Acres Acquisition |
| 201113-33003 | See sheet 7 | See sheet 7 | See sheet 7 | See sheet 7 | See sheet 7 |
| 201113-33402 | See sheet 7 | See sheet 7 | See sheet 7 | See sheet 7 | See sheet 7 |
| 201124-22402 | See sheet 4 | See sheet 4 | See sheet 4 | See sheet 4 | See sheet 4 |

SEC. 24, T.11 N., R.20E., W.M.



HIGHLAND DRIVE

SEC. 13, T.11 N., R.20E., W.M.

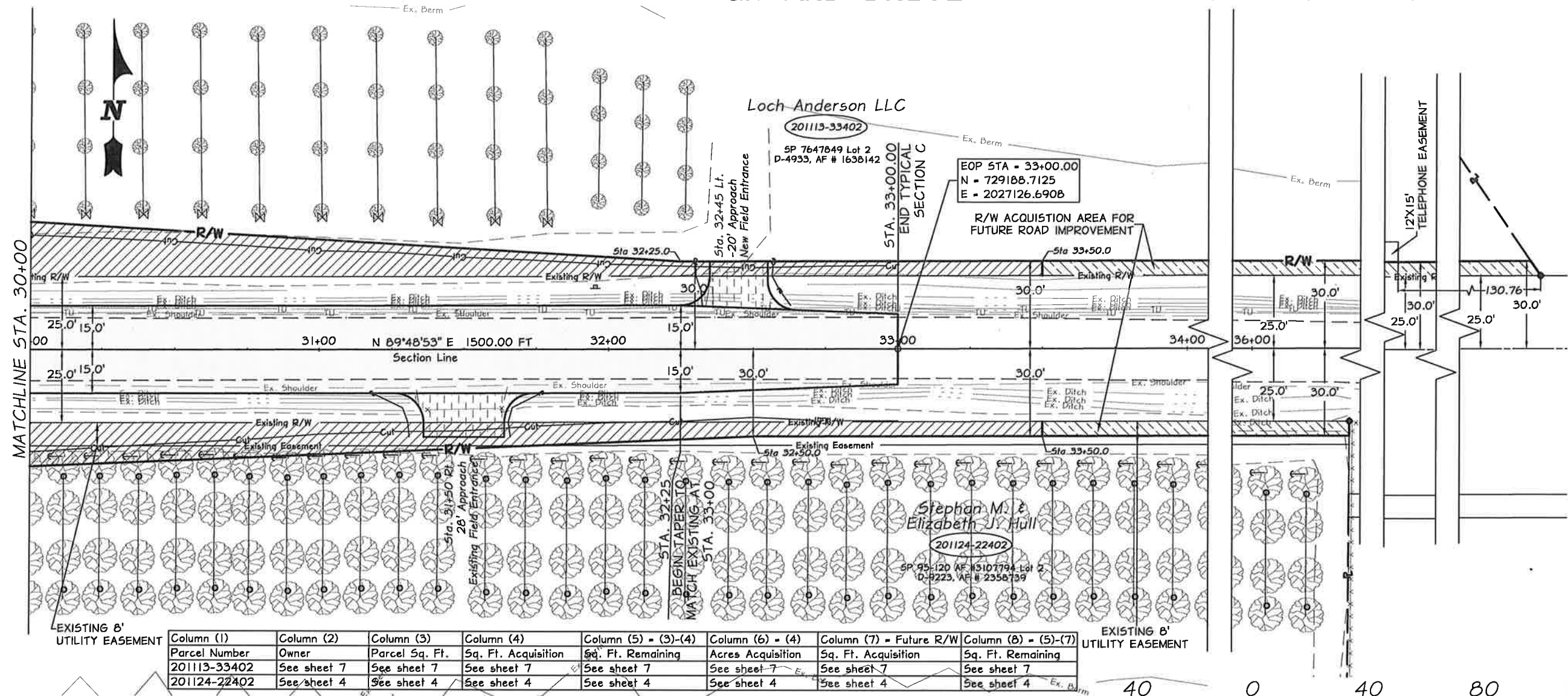


CHEYNE ROAD IMPROVEMENT PROJECT
STPR-D395(002)
 CHEYNE ROAD & HIGHLAND DRIVE INTERSECTION
 C 3377

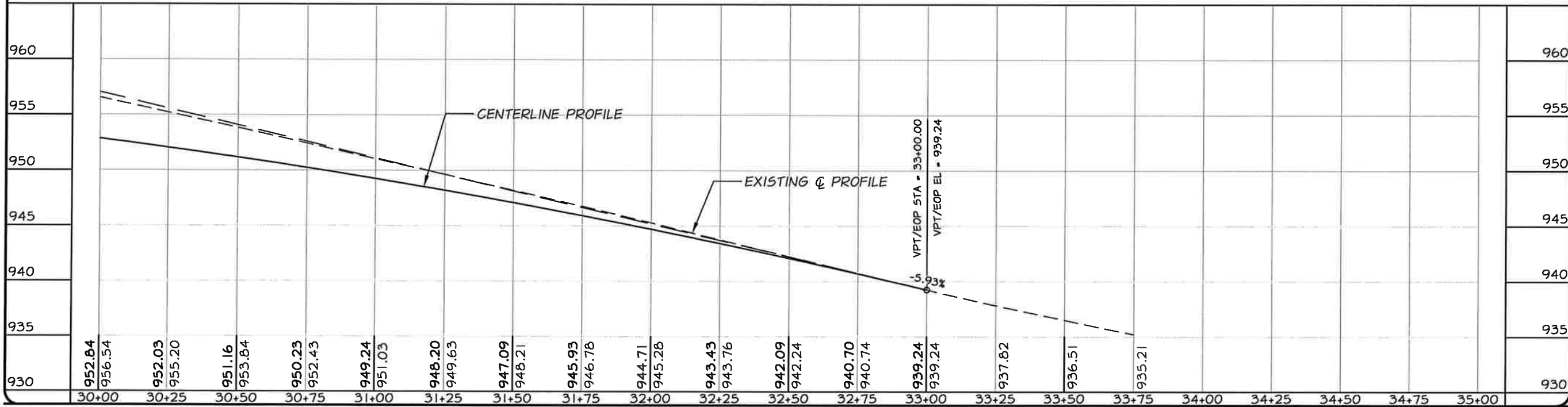
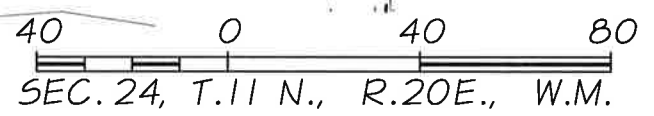
PREPARED UNDER THE DIRECTION OF:



COUNTY ENGINEER
 DATE: 2/20/13



| Column (1) | Column (2) | Column (3) | Column (4) | Column (5) = (3)-(4) | Column (6) = (4) | Column (7) = Future R/W | Column (8) = (5)-(7) |
|---------------|-------------|----------------|---------------------|----------------------|-------------------|-------------------------|----------------------|
| Parcel Number | Owner | Parcel Sq. Ft. | Sq. Ft. Acquisition | Sq. Ft. Remaining | Acres Acquisition | Sq. Ft. Acquisition | Sq. Ft. Remaining |
| 201113-33402 | See sheet 7 | See sheet 7 | See sheet 7 | See sheet 7 | See sheet 7 | See sheet 7 | See sheet 7 |
| 201124-22402 | See sheet 4 | See sheet 4 | See sheet 4 | See sheet 4 | See sheet 4 | See sheet 4 | See sheet 4 |



PROJECT ENGINEER:
 KIM PFAFF

DRAWN: J. MATTHEWS CHECKED BY: K. PFAFF

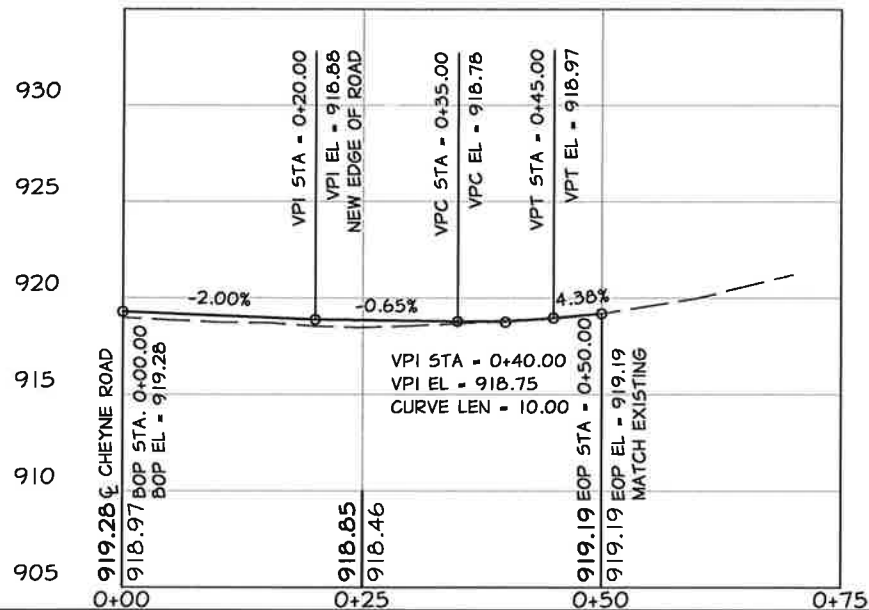
REVISIONS:

RIGHT OF WAY PLANS
 STA. 30+00
 TO
 EOP STA. 33+00.00

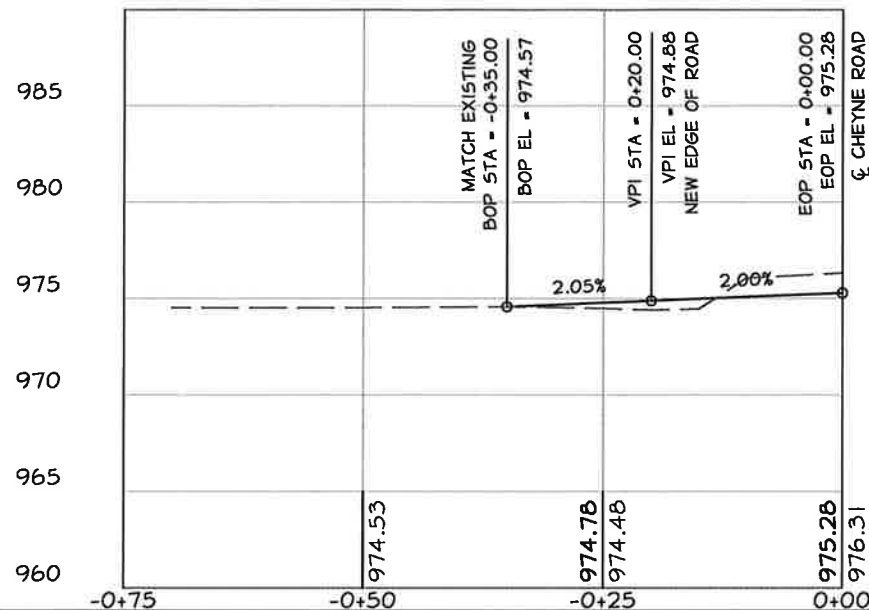
SHEET 13 OF 17

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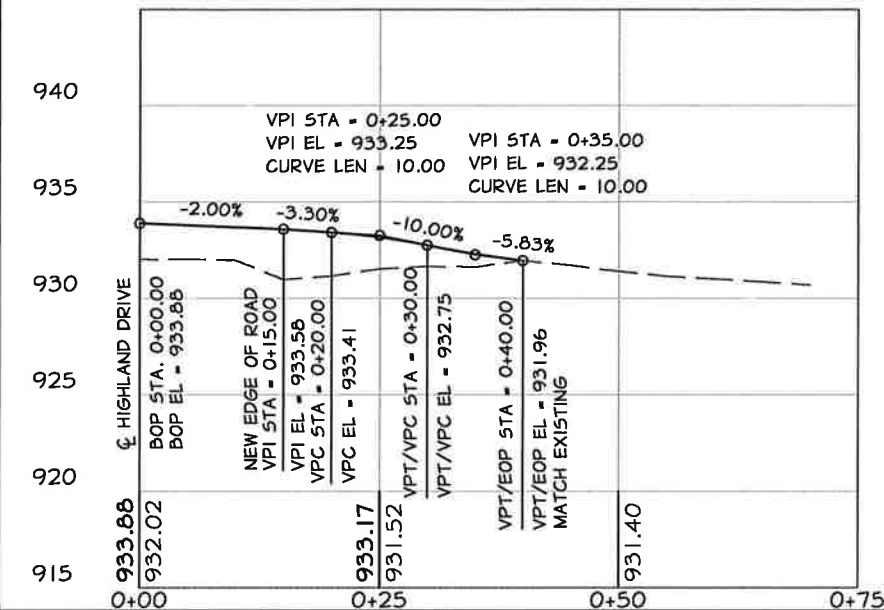
CHEYNE ROAD GRAVEL DRIVE STA. 27+92 RT.



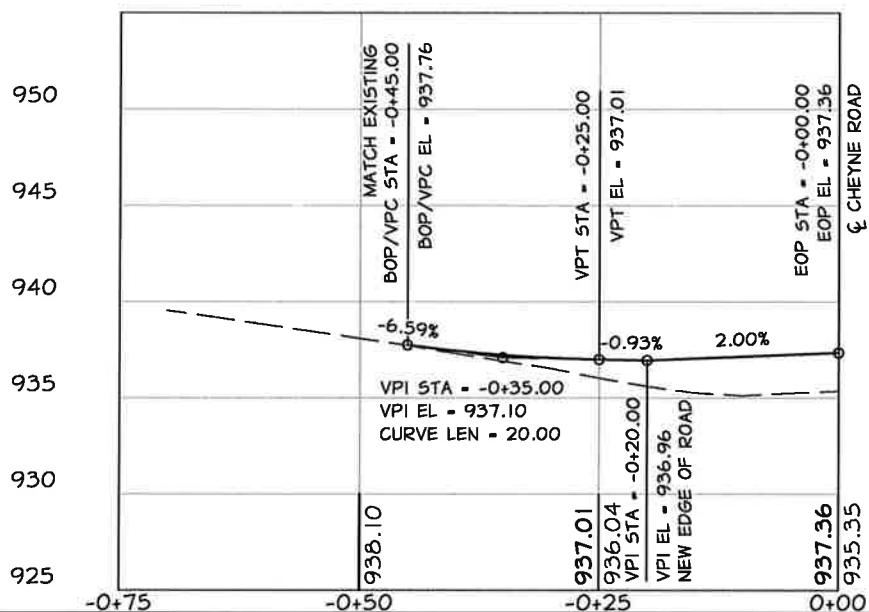
CHEYNE ROAD FIELD ENTRANCE STA. 44+48 LT.



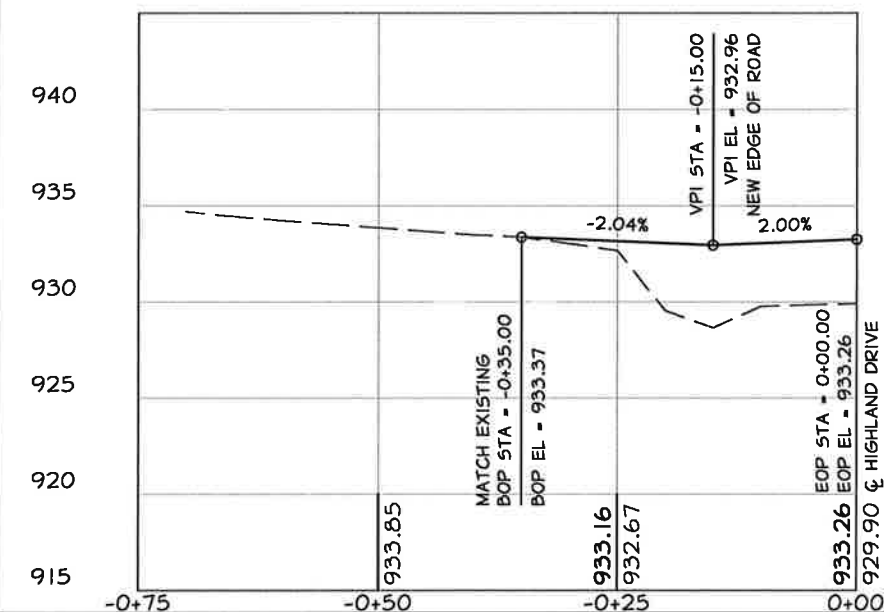
HIGHLAND DRIVE FIELD ENTRANCE STA. 12+00 RT.



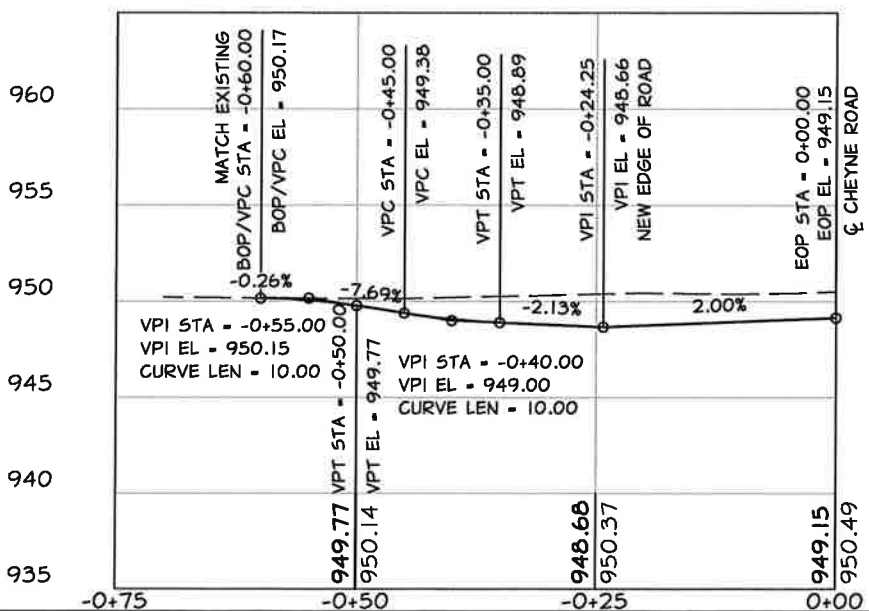
CHEYNE ROAD GRAVEL DRIVE STA. 33+66 LT.



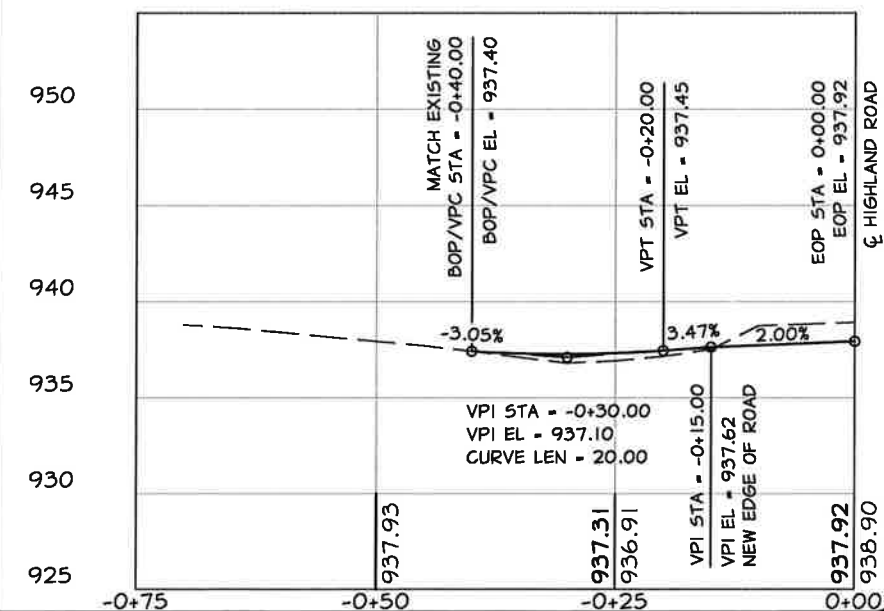
HIGHLAND DRIVE FIELD ENTRANCE STA. 12+45 LT.



CHEYNE ROAD GRAVEL DRIVE STA. 36+87 LT.

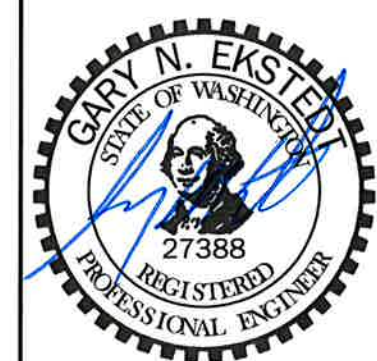


HIGHLAND DRIVE FIELD ENTRANCE STA. 17+00 LT.



CHEYNE ROAD IMPROVEMENT PROJECT
STPR-D395(002)
CHEYNE ROAD & HIGHLAND DRIVE INTERSECTION
C 3377

PREPARED UNDER THE DIRECTION OF:



COUNTY ENGINEER
DATE: 10/9/12

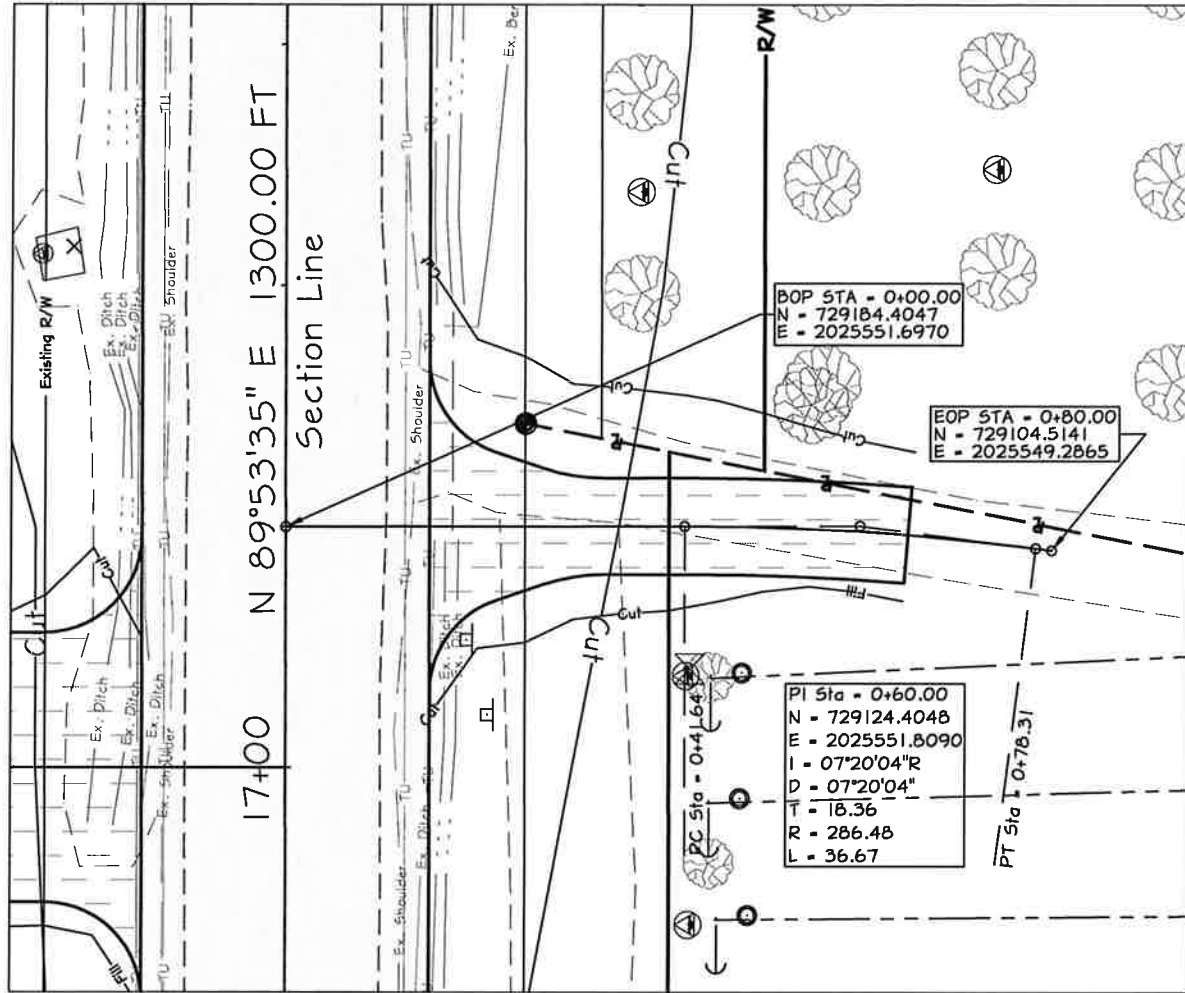
| | |
|--------------------------------|-------------------------|
| PROJECT ENGINEER: KIM PFAFF | |
| DRAWN: J. MATTHEWS | CHECKED BY: K. PFAFF |
| REVISION: | |

ROAD APPROACHES
(1)

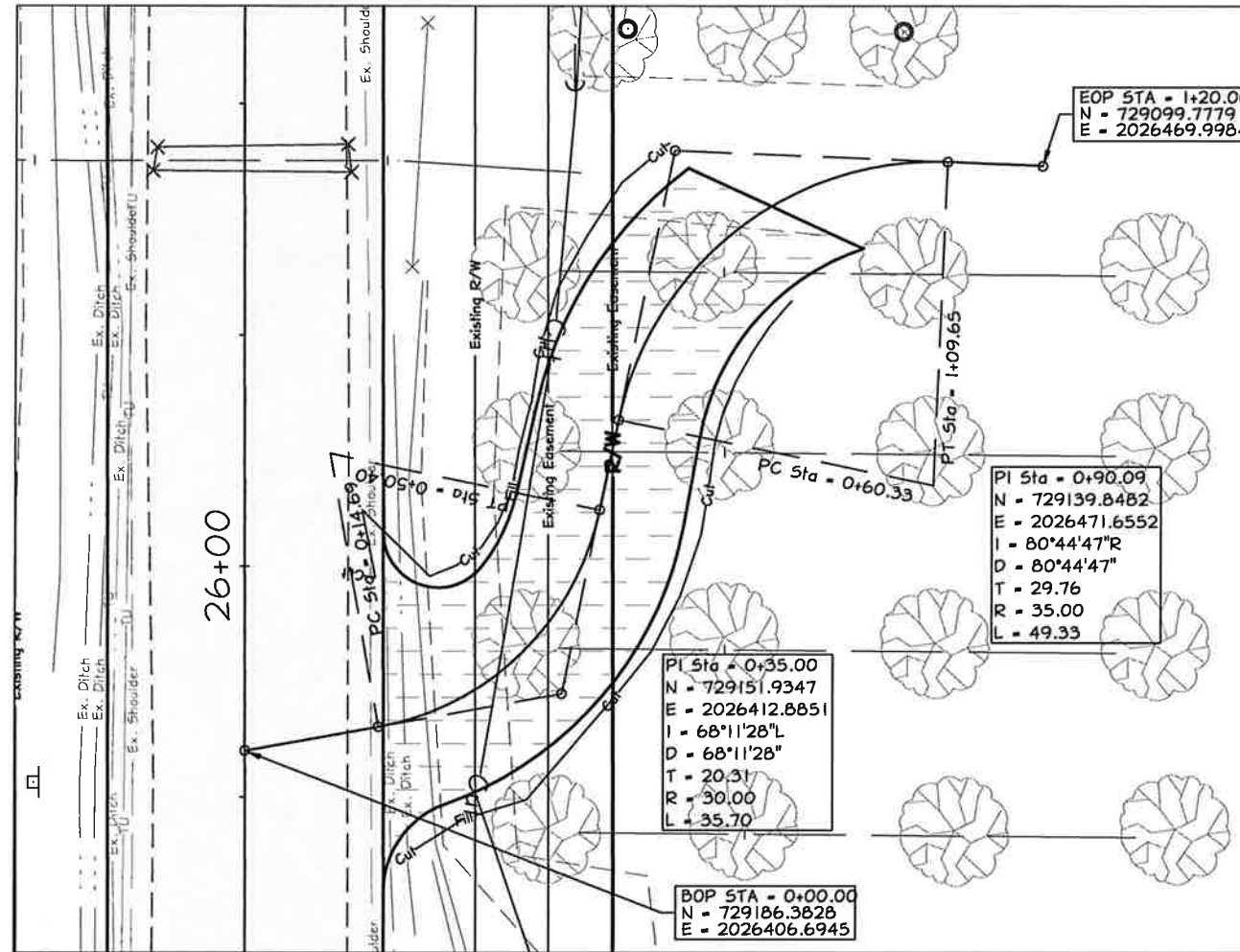
SHEET 14 OF 17

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HIGHLAND DRIVE FIELD ENTRANCE STA. 17+25 RT.

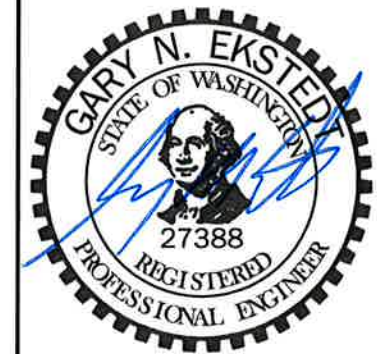


HIGHLAND DRIVE FIELD ENTRANCE STA. 25+80 RT.



CHEYNE ROAD
IMPROVEMENT
PROJECT
STPR-D395(002)
CHEYNE ROAD &
HIGHLAND DRIVE
INTERSECTION
C 3377

PREPARED UNDER
THE DIRECTION OF:



COUNTY ENGINEER
DATE: 10/9/12

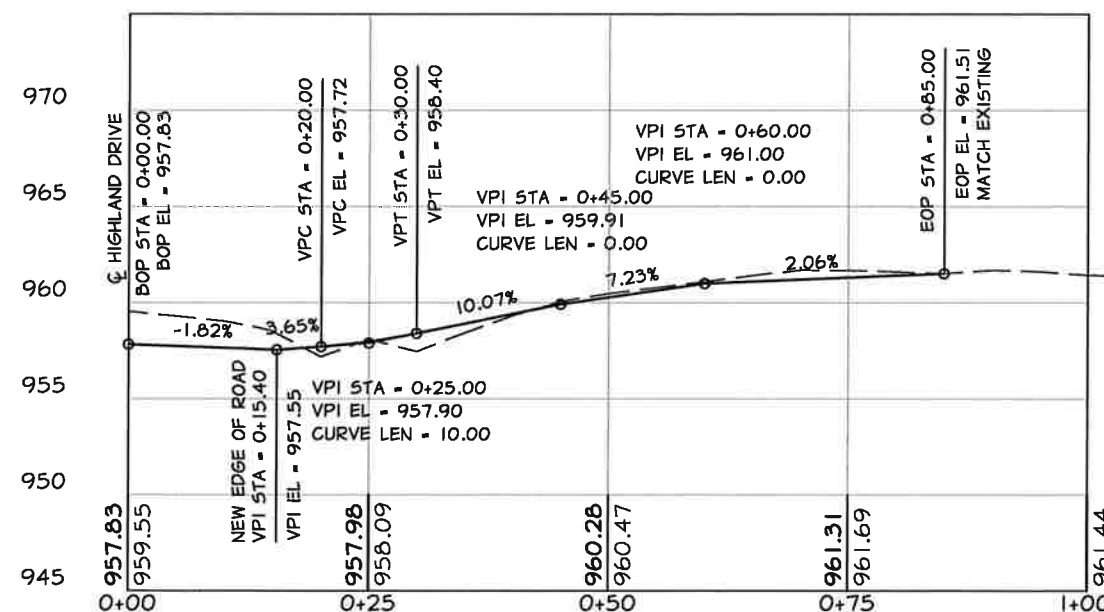
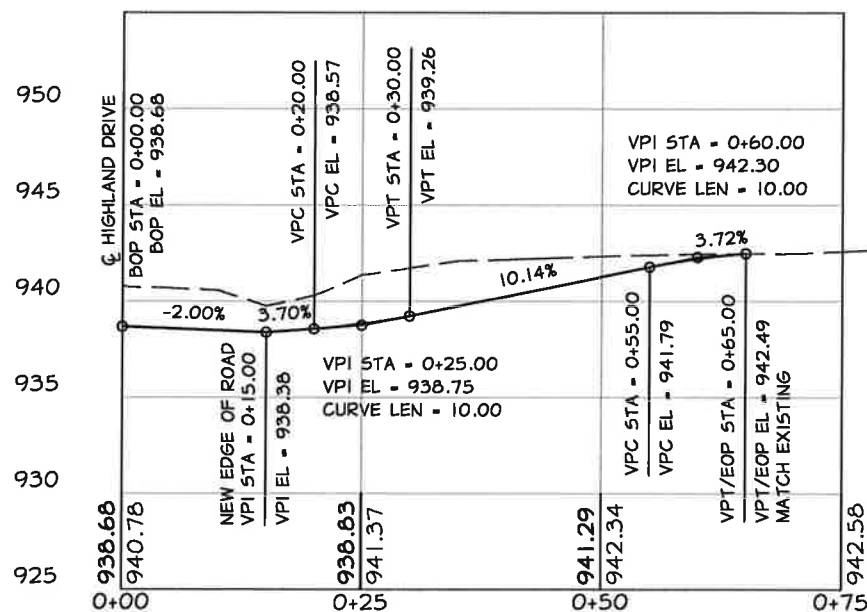
PROJECT ENGINEER:
KIM PFAFF

DRAWN: J. MATTHEWS
CHECKED BY: K. PFAFF

REVISION:

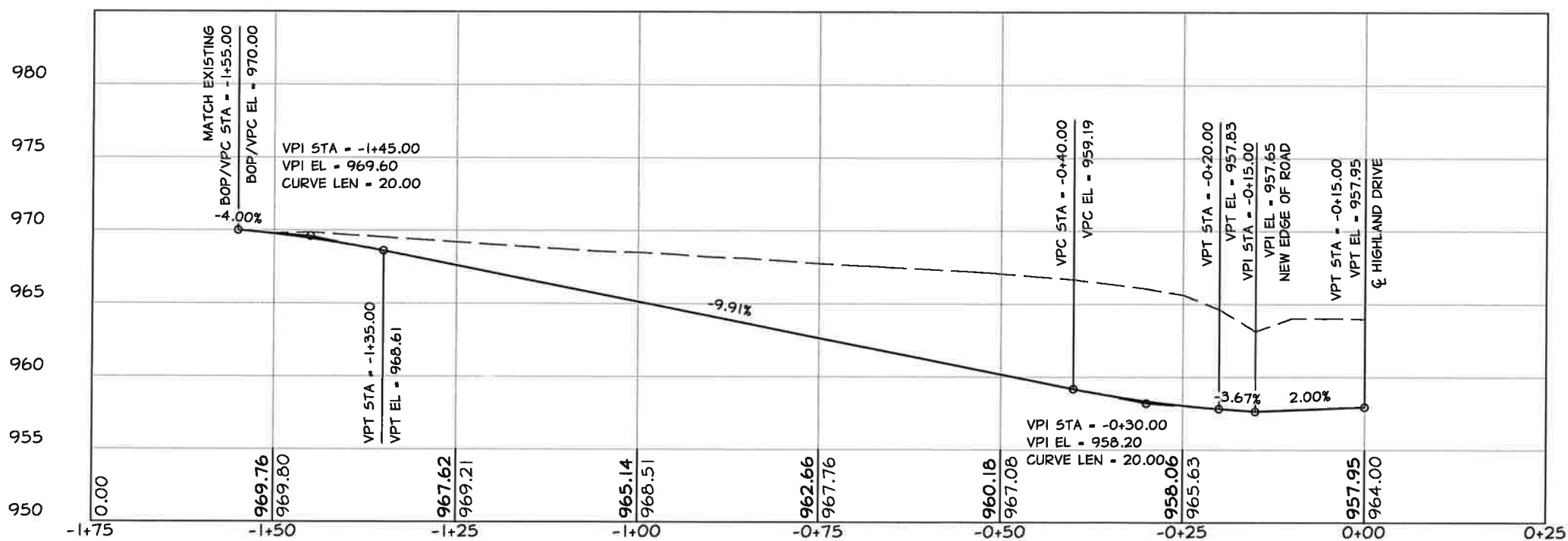
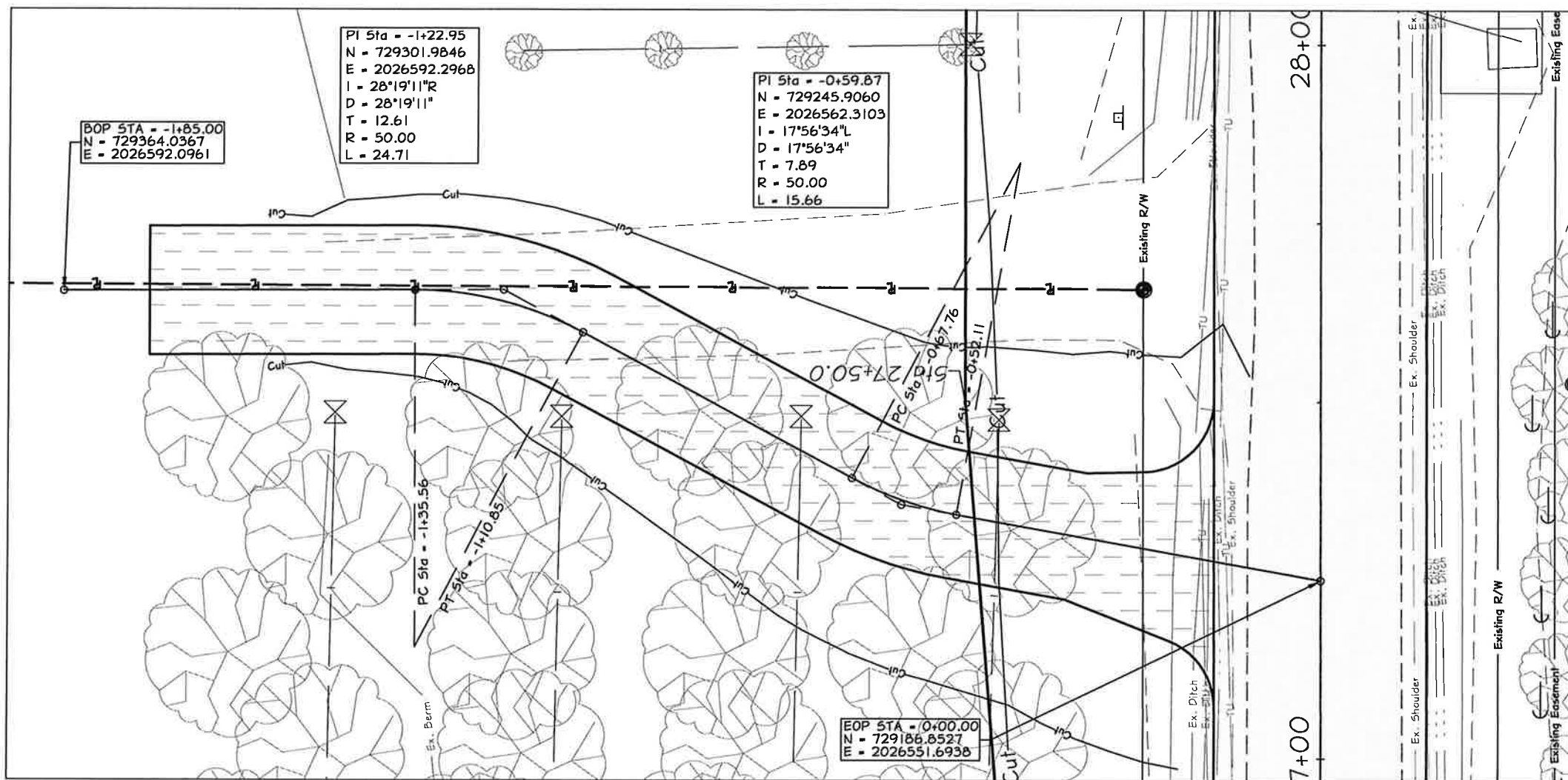
ROAD APPROACHES
(2)

SHEET 15 OF 17



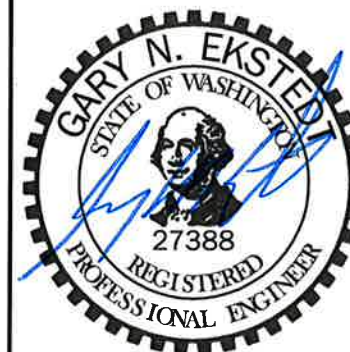
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HIGHLAND DRIVE FIELD ENTRANCE STA. 27+25 LT.



CHEYNE ROAD
IMPROVEMENT
PROJECT
STPR-D395(002)
CHEYNE ROAD &
HIGHLAND DRIVE
INTERSECTION
C 3377

PREPARED UNDER
THE DIRECTION OF:



COUNTY ENGINEER
DATE: 10/9/12

PROJECT ENGINEER:
KIM PFAFF

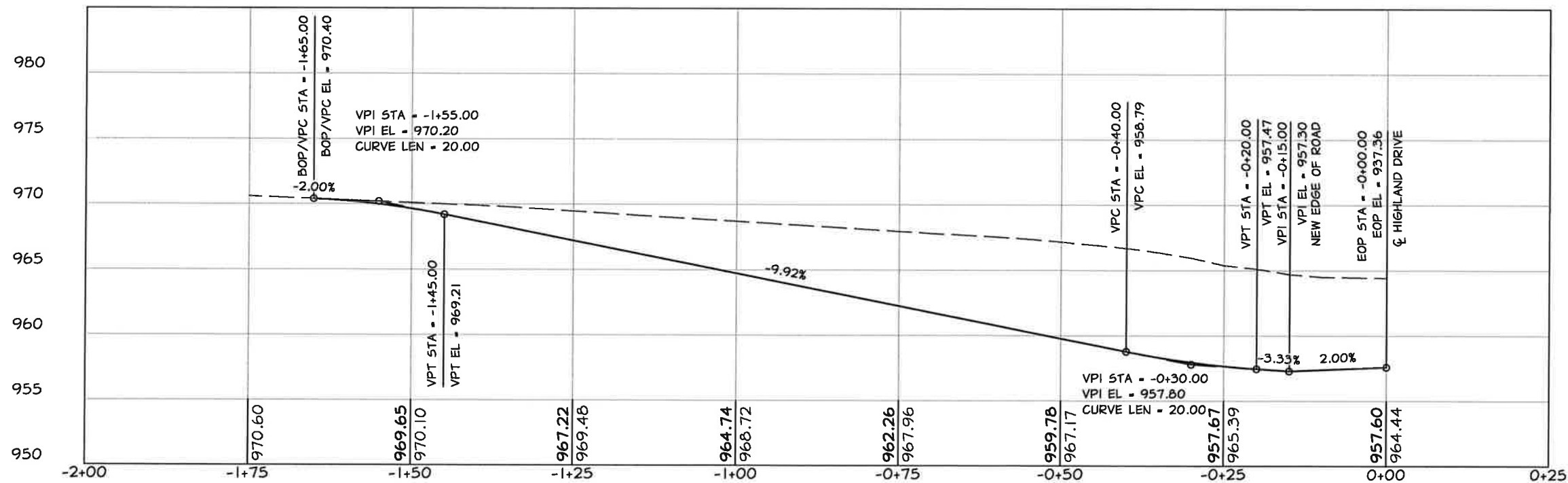
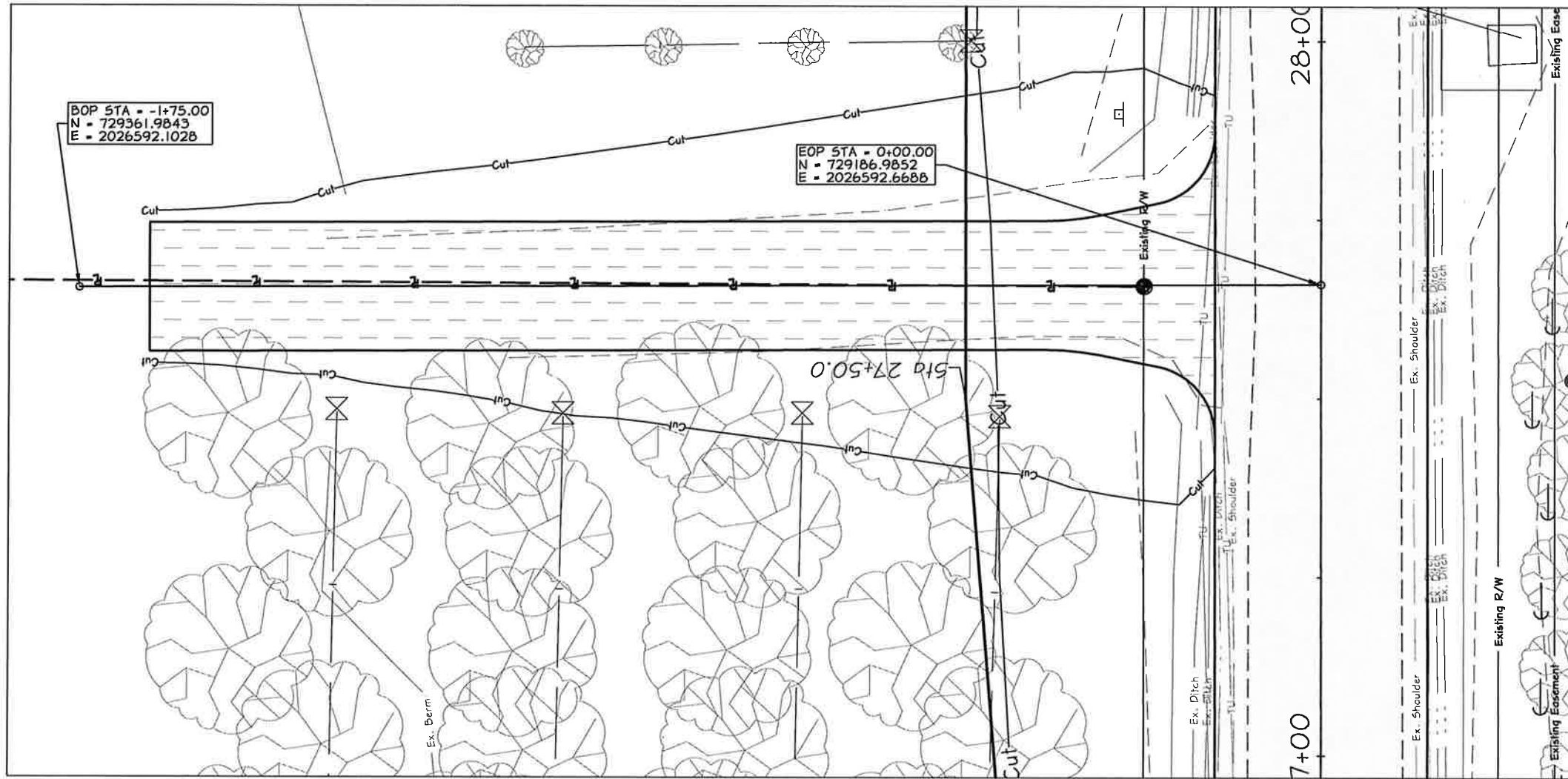
DRAWN: J. MATTHEWS
CHECKED BY: K. PFAFF

REVISION:

ROAD APPROACH
(3)

SHEET 16 OF 17

HIGHLAND DRIVE FIELD ENTRANCE STA. 27+66 LT. (ALTERNATE)



CHEYNE ROAD IMPROVEMENT PROJECT
STPR-D395(002)
CHEYNE ROAD & HIGHLAND DRIVE INTERSECTION
C 3377

PREPARED UNDER THE DIRECTION OF:



COUNTY ENGINEER
DATE: 10/9/12

PROJECT ENGINEER:
KIM PFAFF

DRAWN: J. MATTHEWS
CHECKED BY: K. PFAFF

| REVISION: | |
|-----------|--|
| | |
| | |

ROAD APPROACH (3A)

SHEET 16A OF 17

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CHEYNE ROAD
IMPROVEMENT
PROJECT
STPR-D395(002)
CHEYNE ROAD &
HIGHLAND DRIVE
INTERSECTION
C 3377

PREPARED UNDER
THE DIRECTION OF:



COUNTY ENGINEER
DATE: 10/9/12

PROJECT ENGINEER:
KIM PFAFF

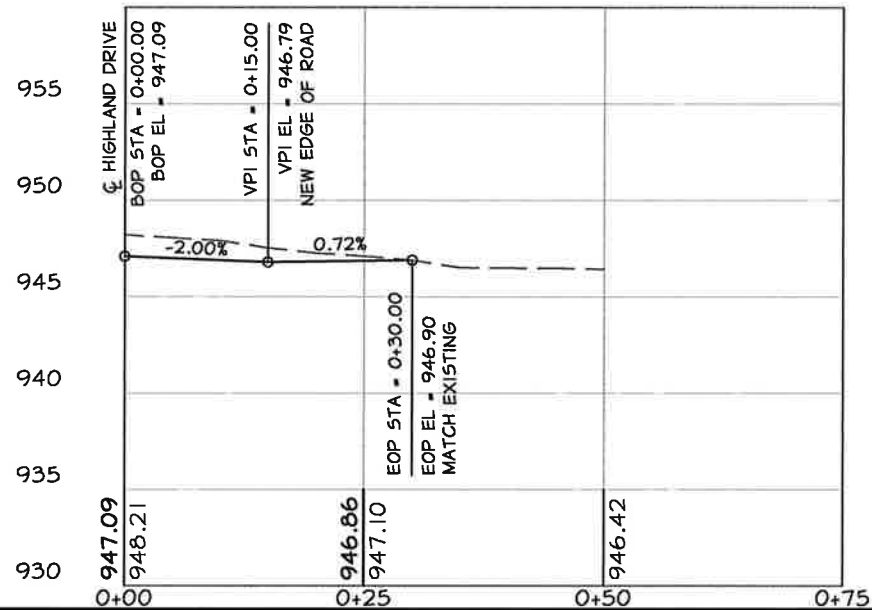
DRAWN: J. MATTHEWS
CHECKED BY: K. PFAFF

REVISION:

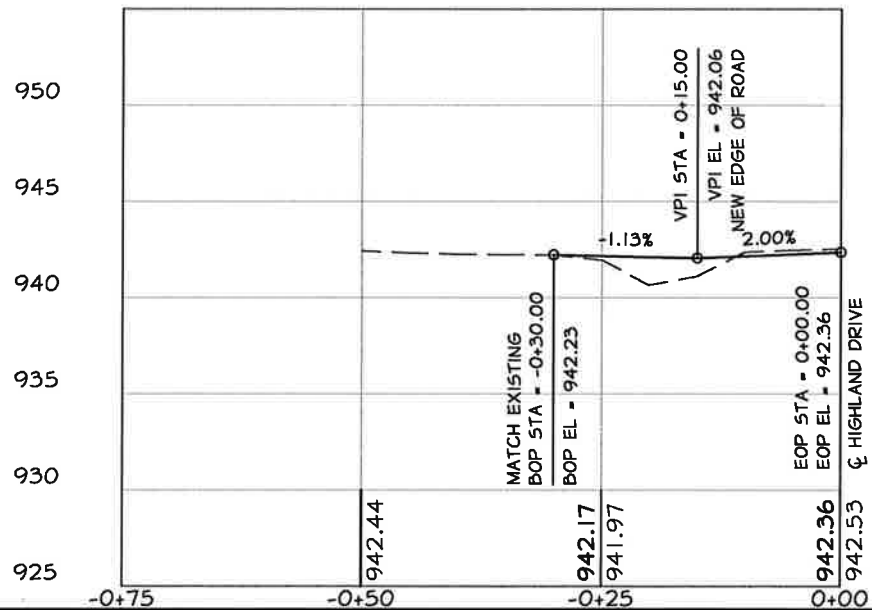
ROAD APPROACHES
(4)

SHEET 17 OF 17

HIGHLAND DRIVE GRAVEL DRIVE STA. 31+50 RT.



HIGHLAND DRIVE GRAVEL DRIVE STA. 32+45 LT.



HIGHLAND DRIVE

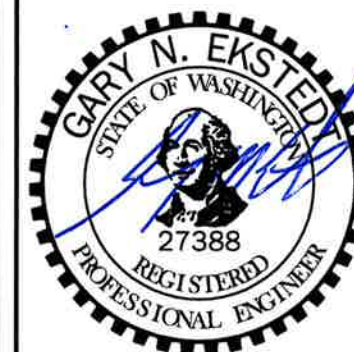
SEC. 13, T.11 N., R.20E., W.M.



CHEYNE ROAD IMPROVEMENT PROJECT

CHEYNE ROAD & HIGHLAND DRIVE INTERSECTION
C 3377

PREPARED UNDER THE DIRECTION OF:



COUNTY ENGINEER
DATE: 7/8/15

PROJECT ENGINEER:
KIM PFAFF

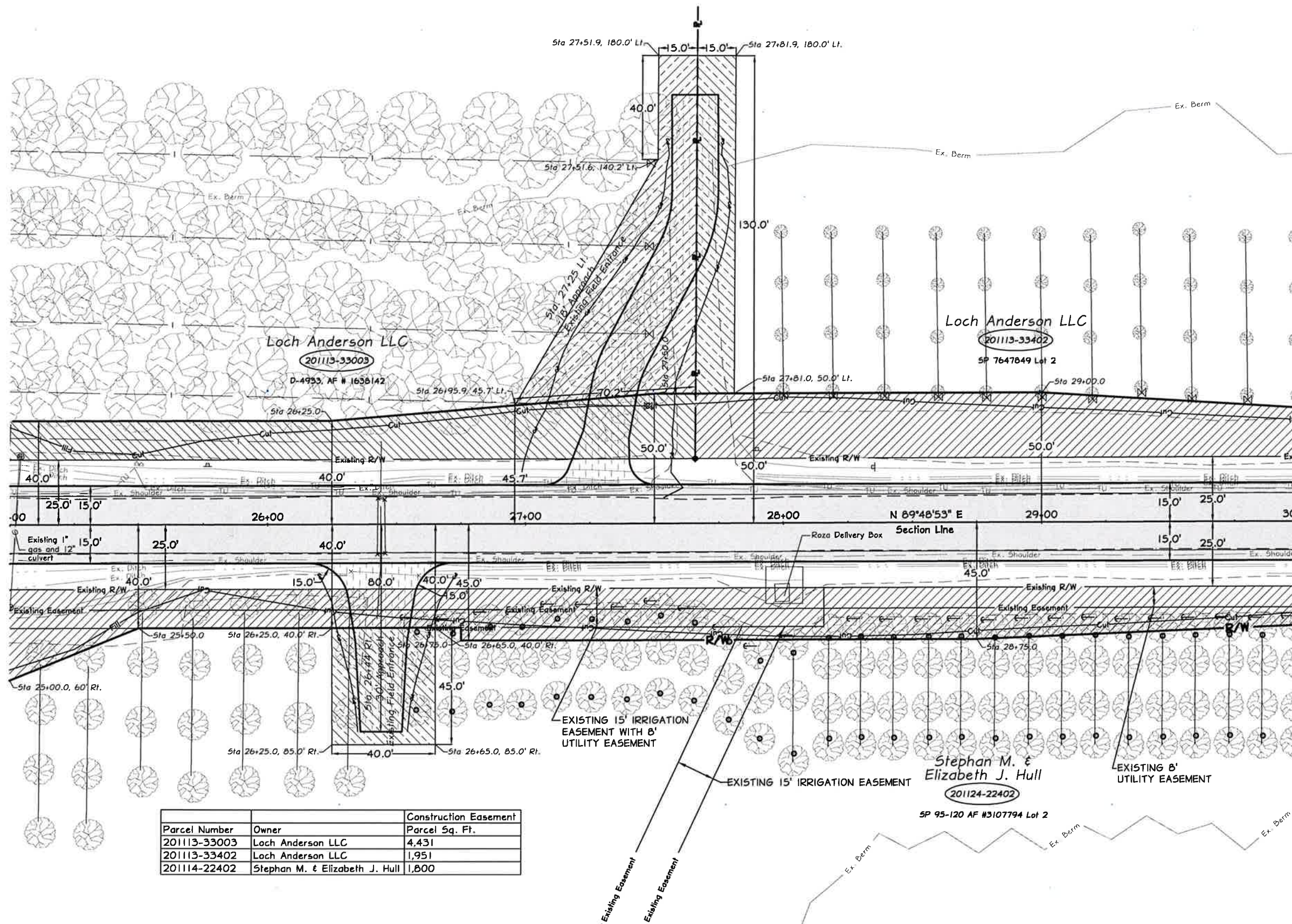
DRAWN: J. MATTHEWS
CHECKED BY: K. PFAFF

REVISION:

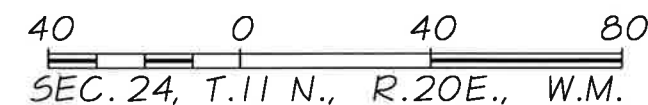
RIGHT OF WAY PLANS

CONSTRUCTION EASEMENTS

SHEET 1 OF 1



| Parcel Number | Owner | Construction Easement Parcel Sq. Ft. |
|---------------|--------------------------------|--------------------------------------|
| 201113-33003 | Loch Anderson LLC | 4,431 |
| 201113-33402 | Loch Anderson LLC | 1,951 |
| 201114-22402 | Stephan M. & Elizabeth J. Hull | 1,800 |



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