

TAKOMA HILLS STREET RECONSTRUCTION - PHASE I

TAKOMA DR, MT VERNON DR, VIRGINIA DR, & RICHMOND CT
PEWAUKEE, WI
FEBRUARY 1, 2024

PROJECT
TAKOMA HILLS
STREET
RECONSTRUCTION
PHASE I

CLIENT



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REGISTRATION



ISSUE/REVISION

| I/R | DATE | DESCRIPTION |
|-----|----------|-------------|
| 1 | 02/01/24 | ADDENDUM 1 |

KEY PLAN

PROJECT NUMBER

60339891

SHEET TITLE

COVER

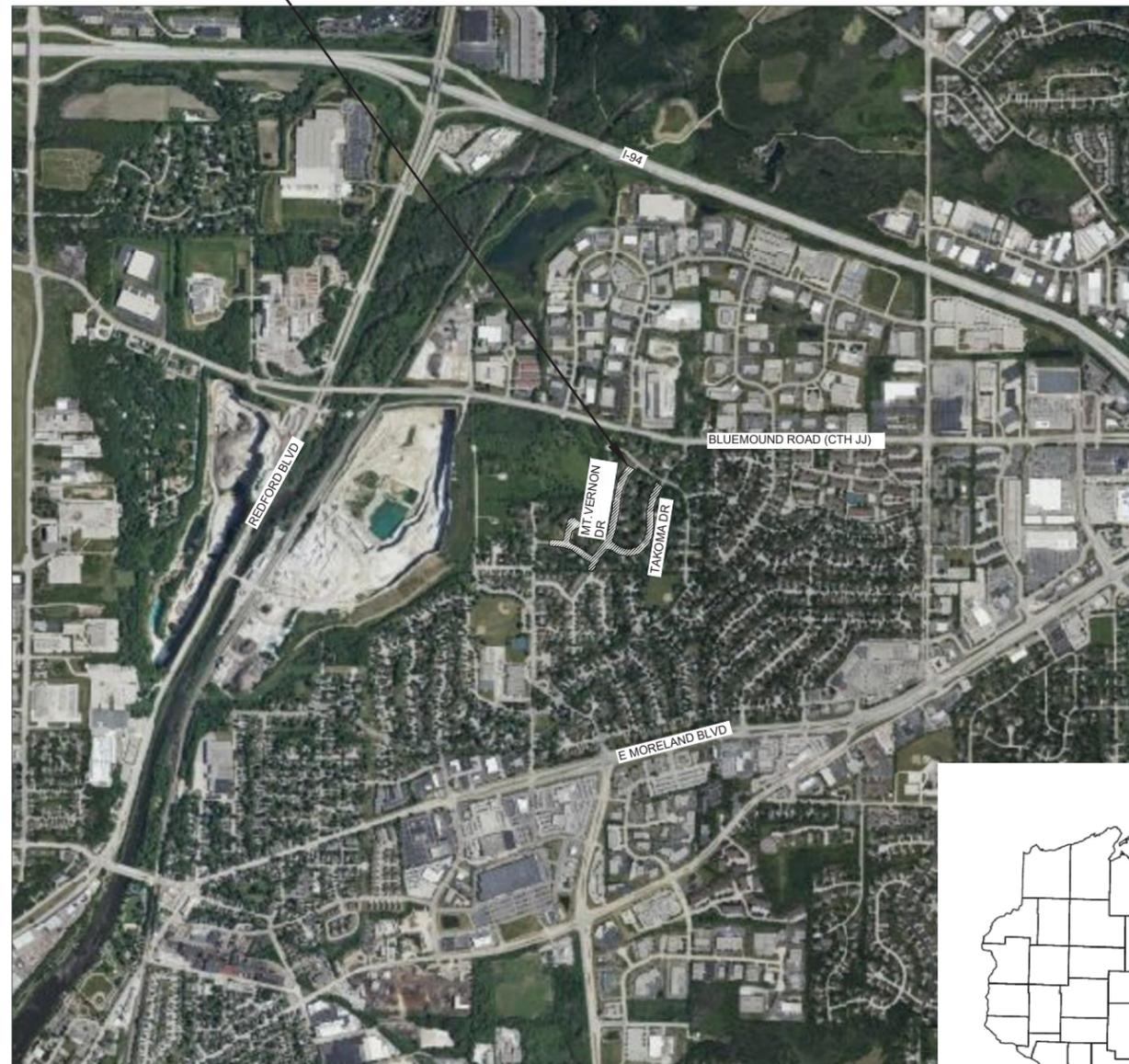
SHEET NUMBER

1

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PROJECT LOCATION



NOTE: MAP NOT TO SCALE

VICINITY MAP

NO SCALE



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LEGEND

| | | | |
|---|--------------------------------|---|-------------------------------------|
|  | SANITARY MANHOLE |  | 1' CONTOUR |
|  | STORM MANHOLE |  | 5' CONTOUR |
|  | STORM PIPE INVERT |  | SANITARY SEWER LINE |
|  | HYDRANT |  | STORM SEWER LINE |
|  | WATER VALVE |  | OVERHEAD ELECTRIC LINE |
|  | WATER SHUT OFF |  | UNDERGROUND ELECTRIC |
|  | WELL |  | UNDERGROUND PHONE |
|  | POWER POLE |  | CENTERLINE ROAD |
|  | YARD LIGHT POLE |  | EDGE OF GRAVEL |
|  | GUY POLE |  | CENTERLINE OF DITCH |
|  | GUY WIRE |  | TREELINE/BRUSH LINE |
|  | ELECTRIC METER/PEDESTAL |  | LANDSCAPE AREA |
|  | TELEPHONE PEDESTAL |  | CULVERT LINE |
|  | GAS VALVE |  | DATA PRODUCED FROM SUBDIVISION PLAT |
|  | GAS POST |  | RIGHT-OF-WAY |
|  | SIGN | | |
|  | POST | | |
|  | FLAG POLE | | |
|  | MAIL BOX | | |
|  | BUSH | | |
|  | DECIDUOUS TREE | | |
|  | CONIFEROUS TREE | | |
|  | ROCK | | |
|  | FOUND IRON PIPE | | |
|  | AECOM TRAVERSE POINT | | |
|  | BENCHMARK | | |
|  | FOUND OLD TRAVERSE POINT (MAG) | | |

ABBREVIATIONS

| | | | |
|-----------------|--------------------------------------|-----------------|--------------------------------------|
| AC | ACRES | AC | ACRES |
| ASPH. | ASPHALT | ASPH. | ASPHALT |
| B.A.D. | BASE AGGREGATE DENSE | B.A.D. | BASE AGGREGATE DENSE |
| BM | BENCH MARK | BM | BENCH MARK |
| BOD | BOTTOM OF DITCH | BOD | BOTTOM OF DITCH |
| C & G | CURB AND GUTTER | C & G | CURB AND GUTTER |
| C/L | CENTERLINE | C/L | CENTERLINE |
| C.T.H. | COUNTY TRUNK HIGHWAY | C.T.H. | COUNTY TRUNK HIGHWAY |
| CMP | CORRUGATED METAL PIPE | CMP | CORRUGATED METAL PIPE |
| CONC. | CONCRETE | CONC. | CONCRETE |
| COR. | CORNER | COR. | CORNER |
| D | DEGREE OF CURVE | D | DEGREE OF CURVE |
| DIA. | DIAMETER | DIA. | DIAMETER |
| E | EAST | E | EAST |
| E.B.S. | EXCAVATION BELOW SUBGRADE | E.B.S. | EXCAVATION BELOW SUBGRADE |
| EL OR ELEV | ELEVATION | EL OR ELEV | ELEVATION |
| ELEC. | ELECTRIC (AL) | ELEC. | ELECTRIC (AL) |
| EOG | EDGE OF GRAVEL | EOG | EDGE OF GRAVEL |
| EXC. | EXCAVATION | EXC. | EXCAVATION |
| EX OR EXIST. | EXISTING | EX OR EXIST. | EXISTING |
| F.L. OR F/L | FLOW LINE | F.L. OR F/L | FLOW LINE |
| FT. | FOOT | FT. | FOOT |
| HMA | HOT MIX ASPHALT | HMA | HOT MIX ASPHALT |
| INL. | INLET | INL. | INLET |
| IE | INVERT ELEVATION | IE | INVERT ELEVATION |
| IP OR I.P. | IRON PIN | IP OR I.P. | IRON PIN |
| L | LENGTH OF CURVE | L | LENGTH OF CURVE |
| L.S. | LUMP SUM | L.S. | LUMP SUM |
| LB. | POUND | LB. | POUND |
| LN | LANE | LN | LANE |
| LT. OR LT | LEFT | LT. OR LT | LEFT |
| M.L. OR M/L | MATCH LINE | M.L. OR M/L | MATCH LINE |
| MATL. | MATERIAL | MATL. | MATERIAL |
| MAX. | MAXIMUM | MAX. | MAXIMUM |
| MH. | MANHOLE | MH. | MANHOLE |
| MIN. | MINIMUM | MIN. | MINIMUM |
| MON. | MONUMENT | MON. | MONUMENT |
| N. | NORTH | N. | NORTH |
| N.C. | NORMAL CROWN | N.C. | NORMAL CROWN |
| NOR. OR NORM. | NORMAL | NOR. OR NORM. | NORMAL |
| P | PAGE | P | PAGE |
| P.C. | POINT OF CURVATURE | P.C. | POINT OF CURVATURE |
| P.C.C. | POINT OF COMPOUND CURVE | P.C.C. | POINT OF COMPOUND CURVE |
| P.I. | POINT OF INTERSECTION | P.I. | POINT OF INTERSECTION |
| P.L. | PROPERTY LINE | P.L. | PROPERTY LINE |
| P.T. | POINT OF TANGENCY | P.T. | POINT OF TANGENCY |
| PAVT. | PAVEMENT | PAVT. | PAVEMENT |
| PROJ. | PROJECT | PROJ. | PROJECT |
| PT. | POINT | PT. | POINT |
| PR | PROPOSED | PR | PROPOSED |
| R | RADIUS | R | RADIUS |
| R/L | REFERENCE LINE | R/L | REFERENCE LINE |
| R/W | RIGHT-OF-WAY | R/W | RIGHT-OF-WAY |
| RCP | REINFORCED CONCRETE PIPE | RCP | REINFORCED CONCRETE PIPE |
| RD. | ROAD | RD. | ROAD |
| REBAR. | REINFORCEMENT BAR | REBAR. | REINFORCEMENT BAR |
| REINF | REINFORCING OR REINFORCEMENT | REINF | REINFORCING OR REINFORCEMENT |
| REM. | REMAINING | REM. | REMAINING |
| REQ'D. | REQUIRED | REQ'D. | REQUIRED |
| RRSP | RAILROAD SPIKE | RRSP | RAILROAD SPIKE |
| RT OR RT. | RIGHT | RT OR RT. | RIGHT |
| S.F. OR SQ.FT. | SQUARE FEET | S.F. OR SQ.FT. | SQUARE FEET |
| S.S. | STORM SEWER | S.S. | STORM SEWER |
| S.S.P.R.C. | STORM SEWER PIPE REINFORCED CONCRETE | S.S.P.R.C. | STORM SEWER PIPE REINFORCED CONCRETE |
| S.T.H. | STATE TRUNK HIGHWAYS | S.T.H. | STATE TRUNK HIGHWAYS |
| S.Y. OR SQ. YD. | SQUARE YARD | S.Y. OR SQ. YD. | SQUARE YARD |
| SEC. | SECTION | SEC. | SECTION |
| STA. | STATION | STA. | STATION |
| T | TANGENT | T | TANGENT |
| TEL. | TELEPHONE | TEL. | TELEPHONE |
| TEMP. | TEMPORARY | TEMP. | TEMPORARY |
| TYP. | TYPICAL | TYP. | TYPICAL |
| V.C. | VERTICAL CURVE | V.C. | VERTICAL CURVE |
| W. | WEST | W. | WEST |
| X | EAST GRID COORDINATE | X | EAST GRID COORDINATE |
| Y | NORTH GRID COORDINATE | Y | NORTH GRID COORDINATE |



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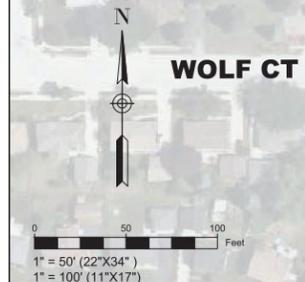
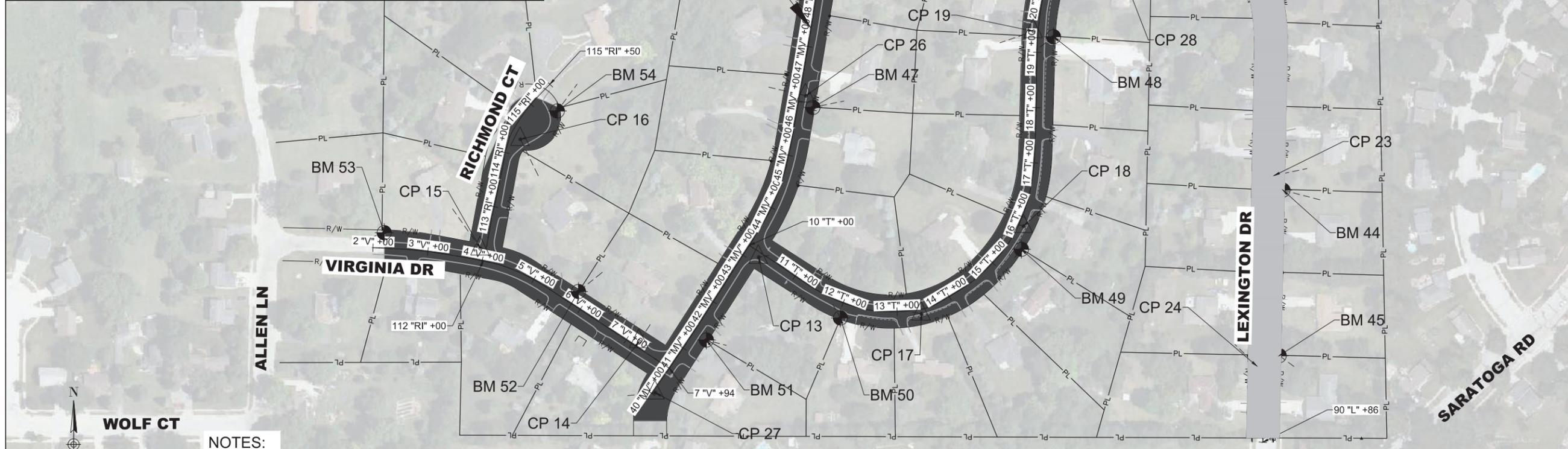
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 INFORMATION

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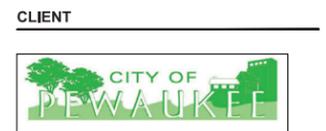
| CONTROL POINTS AND BENCHMARKS | | | | | | |
|-------------------------------|----------------|--------|-----------|------------|-----------|-----------------------|
| POINT # | STATION | OFFSET | NORTHING | EASTING | ELEVATION | DESCRIPTION |
| 10 | 70 "L"+12.06 | 0 | 382825.61 | 2481170.78 | 869.32 | CP / MAG NAIL |
| 11 | 53 "MV"+23.81 | 6.52 | 382641.83 | 2481540.42 | 871.15 | CP / MAG NAIL |
| 12 | 48 "MV"+22.28 | 10.39 | 382186.44 | 2481342.37 | 894.43 | CP / MAG NAIL |
| 13 | 10 "T"+26.36 | 8.4 | 381683.41 | 2481243.66 | 903.03 | CP / MAG NAIL |
| 14 | 7 "V"+21.39 | 10.46 | 381531.02 | 2481026.77 | 904.30 | CP / MAG NAIL |
| 15 | 112 "RI"+20.36 | 10.1 | 381698.80 | 2480738.76 | 912.40 | CP / MAG NAIL |
| 16 | 114 "RI"+34.63 | 19.43 | 381896.51 | 2480811.27 | 924.83 | CP / MAG NAIL |
| 17 | 13 "T"+42.98 | 8.22 | 381580.92 | 2481538.94 | 911.18 | CP / MAG NAIL |
| 18 | 15 "T"+85.58 | 9.14 | 381739.46 | 2481724.51 | 899.46 | CP / MAG NAIL |
| 19 | 19 "T"+37.41 | 8.23 | 382091.74 | 2481742.49 | 881.75 | CP / MAG NAIL |
| 20 | 78 "L"+28.34 | 14.88 | 382468.07 | 2481873.35 | 873.41 | CP / MAG NAIL |
| 21 | 26 "T"+59.18 | 11.94 | 382714.74 | 2482086.67 | 890.15 | CP / MAG NAIL |
| 22 | 140 "R"+39.17 | 10.44 | 382278.28 | 2482167.02 | 876.06 | CP / MAG NAIL |
| 23 | 86 "L"+03.46 | 10.78 | 381830.90 | 2482179.10 | 880.42 | CP / MAG NAIL |
| 24 | 89 "L"+48.23 | 11.79 | 381486.66 | 2482147.36 | 892.20 | CP / MAG NAIL |
| 25 | 76 "L"+51.83 | 10.41 | 382540.68 | 2481714.32 | 872.06 | CP / MAG NAIL |
| 26 | 46 "MV"+11.78 | 11.32 | 381975.22 | 2481329.28 | 898.03 | CP / MAG NAIL |
| 27 | 40 "MV"+04.73 | 4.36 | 381438.13 | 2481056.18 | 903.54 | CP / 3/4 REBAR |
| 28 | 22 "T"+13.09 | 11.46 | 382346.93 | 2481845.94 | 874.15 | CP / MAG NAIL |
| 40 | 74 "L"+38.19 | 29.14 | 382686.18 | 2481562.00 | 872.24 | BM / NE BURY BOLT |
| 41 | 78 "L"+14.40 | 29.68 | 382478.28 | 2481865.52 | 873.94 | BM / NE BURY BOLT |
| 42 | 26+94.40 | 27.37 | 382735.35 | 2482121.93 | 895.95 | BM / NE BURY BOLT |
| 43 | 82+02.36 | 23.41 | 382236.56 | 2482165.48 | 878.18 | BM / SE BURY TAG BOLT |
| 44 | 86+30.21 | 27.11 | 381804.58 | 2482194.88 | 883.65 | BM / NE BURY BOLT |
| 45 | 89+28.37 | 28.65 | 381505.21 | 2482188.13 | 892.28 | BM / NE BURY BOLT |
| 46 | 49+18.89 | 27.82 | 382275.75 | 2481395.38 | 890.18 | BM / NE BURY TAG BOLT |
| 47 | 45+93.30 | 27.63 | 381954.13 | 2481342.05 | 899.73 | BM / NW BURY TAG BOLT |
| 48 | 19+30.32 | 28.52 | 382081.99 | 2481778.60 | 883.22 | BM / NE BURY BOLT |
| 49 | 15+49.16 | 25.63 | 381697.62 | 2481720.41 | 903.78 | BM / NE BURY BOLT |
| 50 | 12+04.48 | 27.08 | 381573.48 | 2481391.92 | 908.71 | BM / SE BURY BOLT |
| 51 | 41+35.39 | 27.21 | 381533.54 | 2481148.76 | 904.62 | BM / NE BURY TAG BOLT |
| 52 | 5+79.82 | 25.38 | 381621.20 | 2480916.56 | 909.63 | BM / NW BURY TAG BOLT |
| 53 | 2+18.28 | 27.93 | 381727.63 | 2480564.09 | 916.69 | BM / NW BURY TAG BOLT |
| 54 | 115+24.61 | 43.29 | 381947.76 | 2480878.26 | 929.84 | BM / NE BURY TAG BOLT |



- NOTES:**
1. TOPOGRAPHIC SURVEY PERFORMED BY AECOM FROM DECEMBER 1, 2022 TO JANUARY 10, 2023.
 2. HORIZONTAL COORDINATES BASED ON WAUKESHA COUNTY
 3. VERTICAL DATUM BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29)
 4. UTILITIES DOCUMENTED IN FIELD PER DIGGER'S HOTLINE TICKET NUMBERS 20224900207, 20224900209, 20224900213, 20224900215, 20224900217, 20224900218, 20224900221, 20224900222, 20224900223, 20224900225, 20224900228, 20224900229, 20224900249, AND 20224900251.
 5. PARCEL DATA AND FEATURES OUTSIDE OF SURVEYED PROPERTY FROM WAUKESHA COUNTY GIS.



PROJECT
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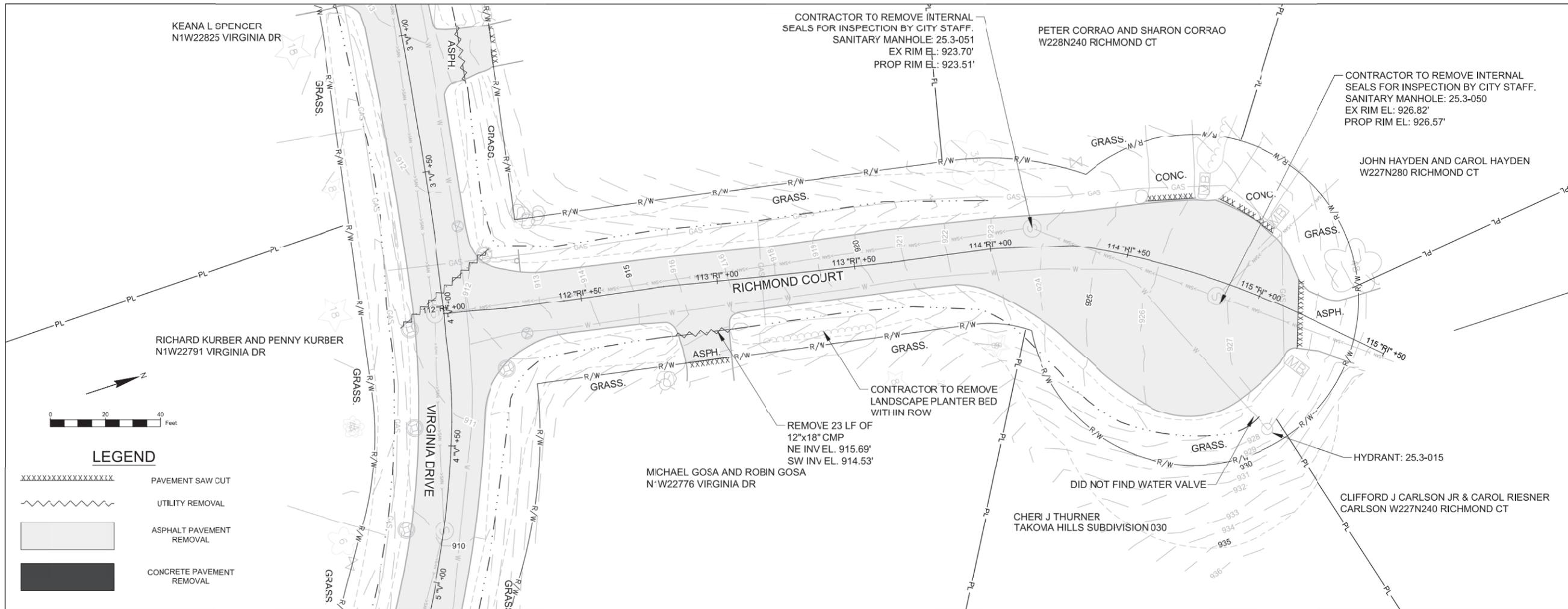
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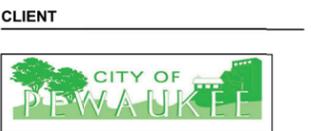
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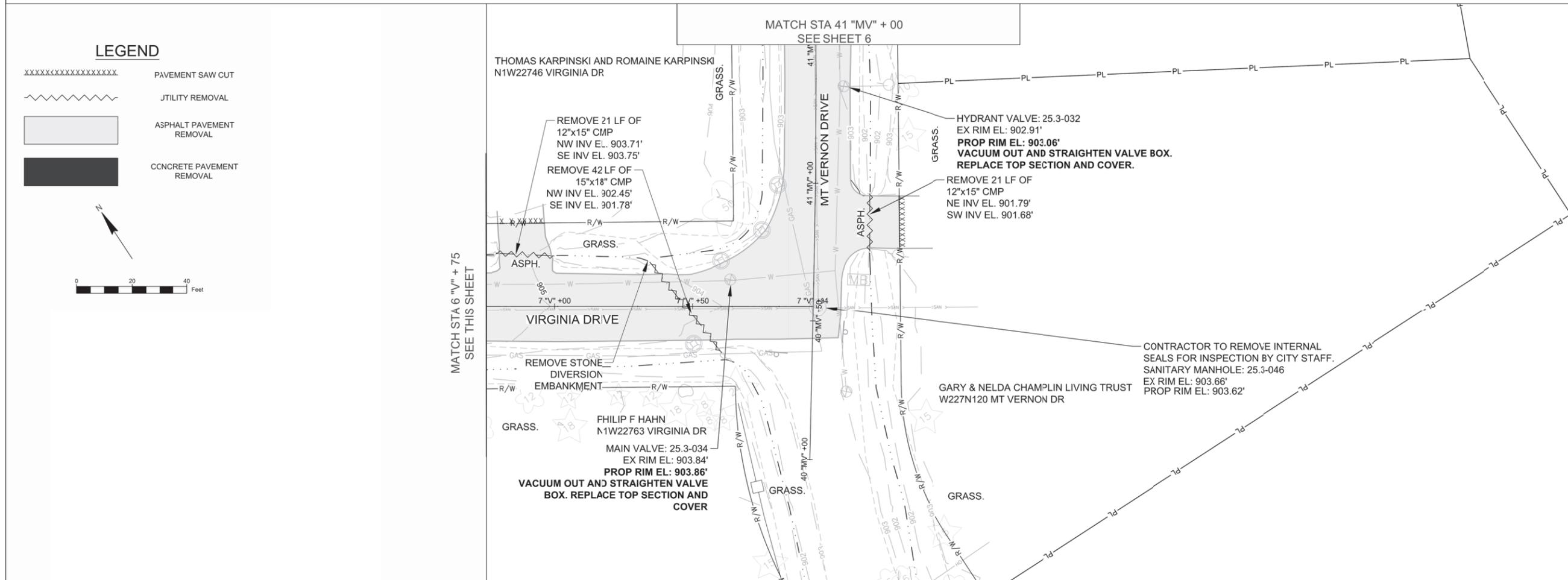
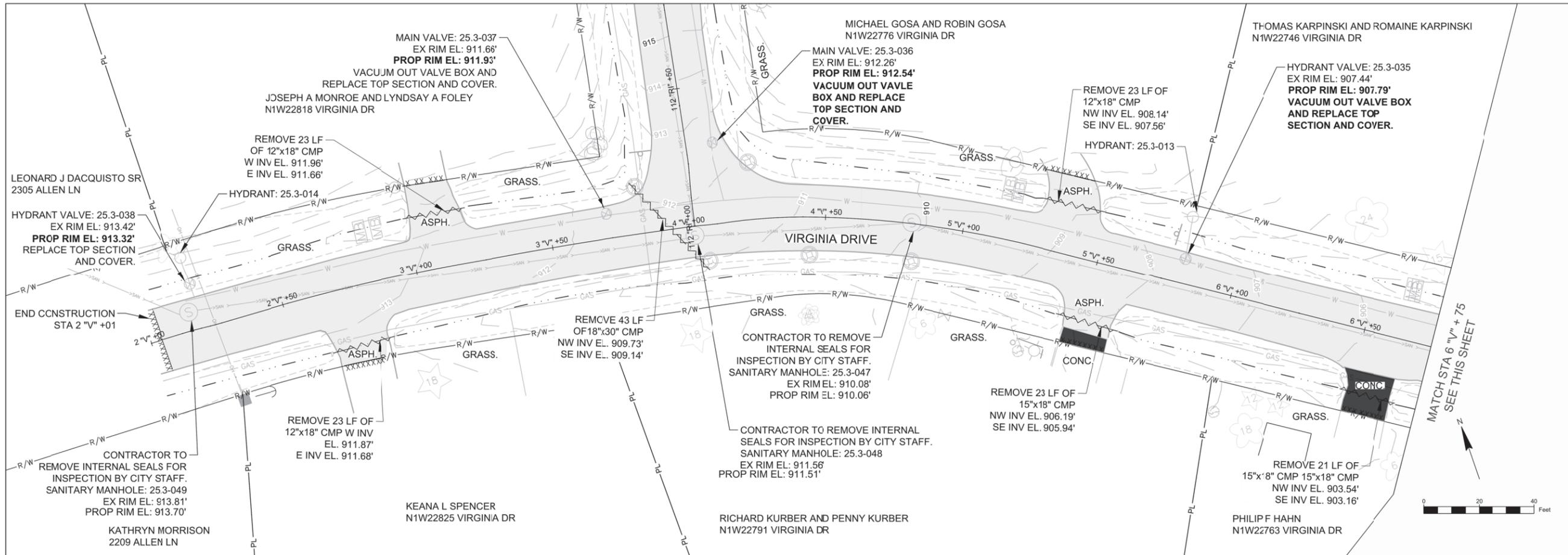
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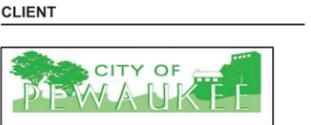
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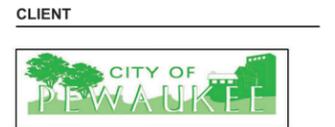
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SHEET TITLE
 VIRGINIA DR REMOVALS

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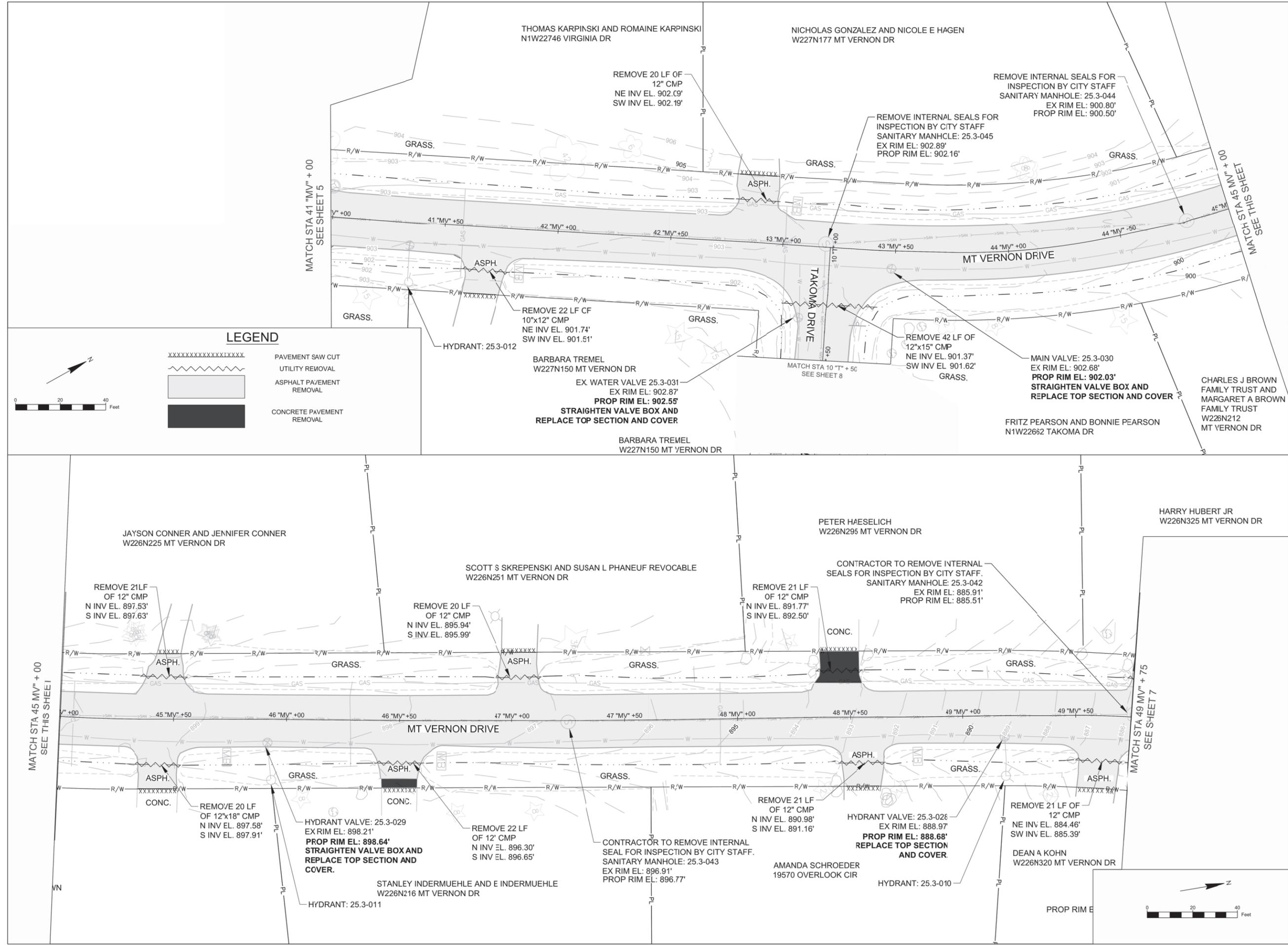
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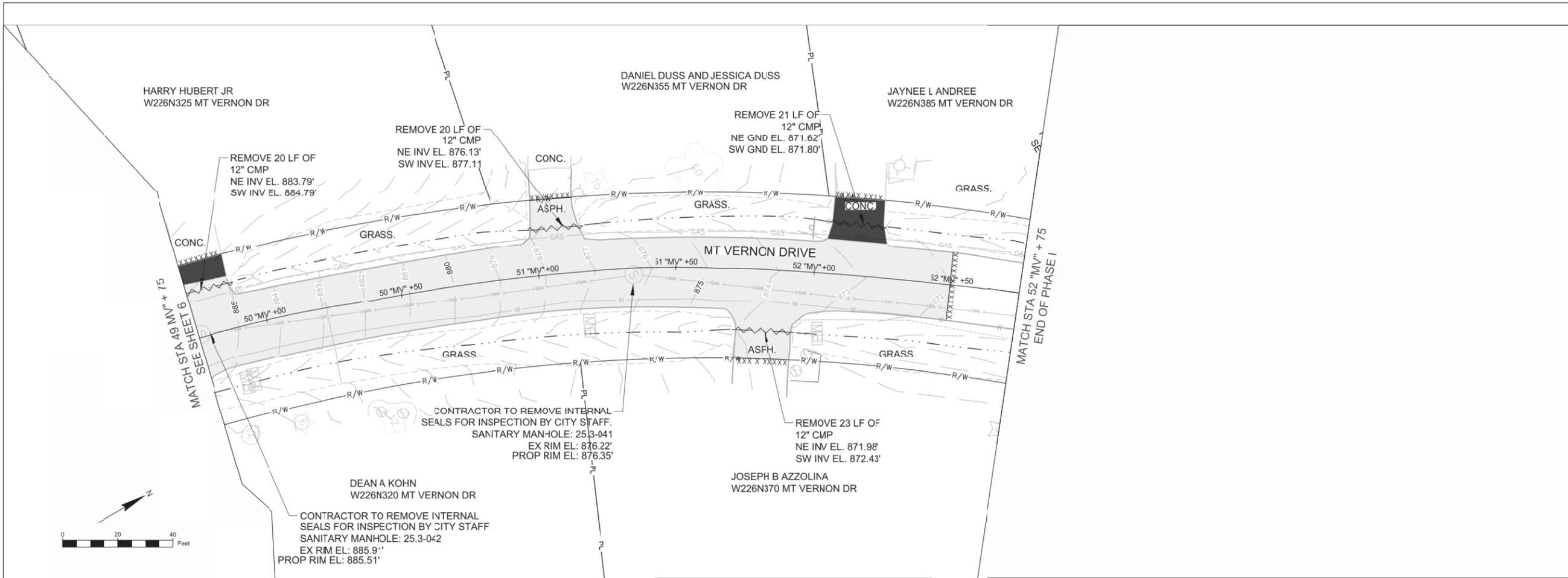
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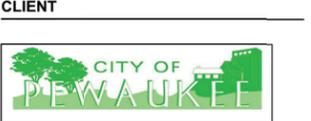


LEGEND

- XXXXXXXXXXXXXXXXXXXX PAVEMENT SAW CUT
- ~~~~~ UTILITY REMOVAL
- ASPHALT PAVEMENT REMOVAL
- CONCRETE PAVEMENT REMOVAL



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 414.944.6080 tel 414.944.6081 fax
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REGISTRATION

ISSUE/REVISION

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| 1 | 02/01/24 | ADDENDUM 1 |

KEY PLAN

PROJECT NUMBER

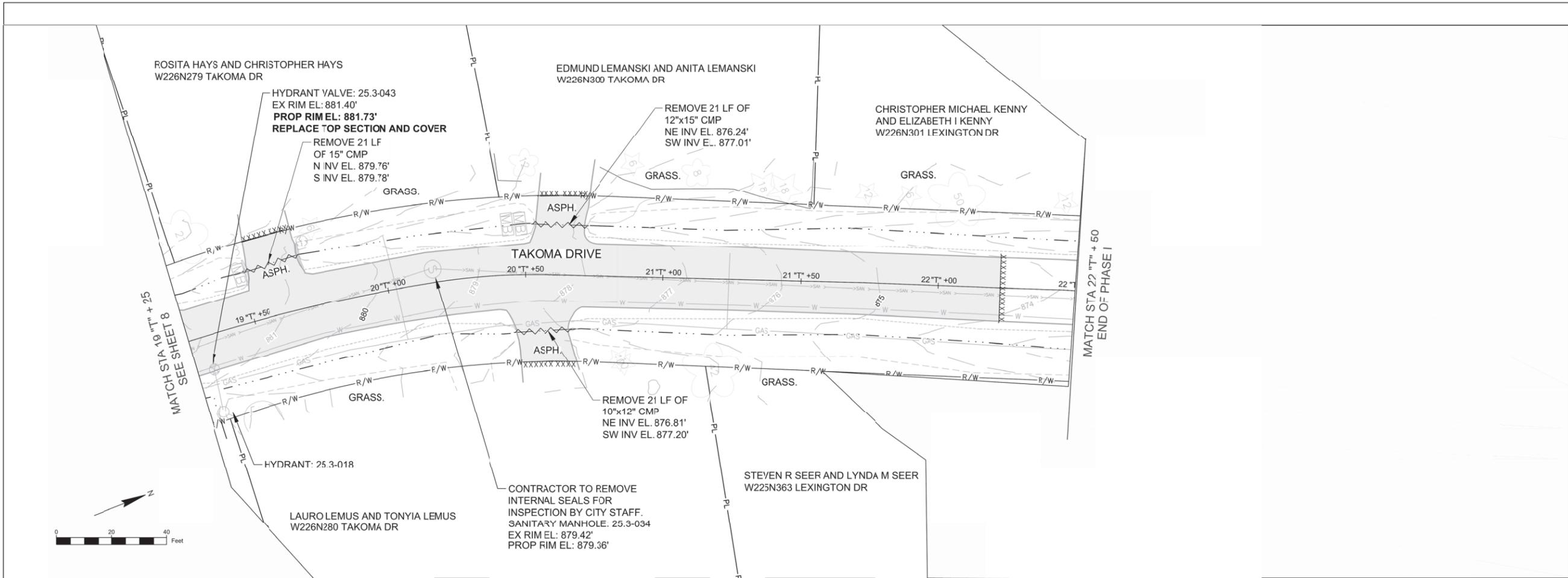
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SHEET TITLE

TAKOMA DR REMOVALS 2

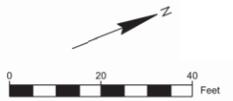
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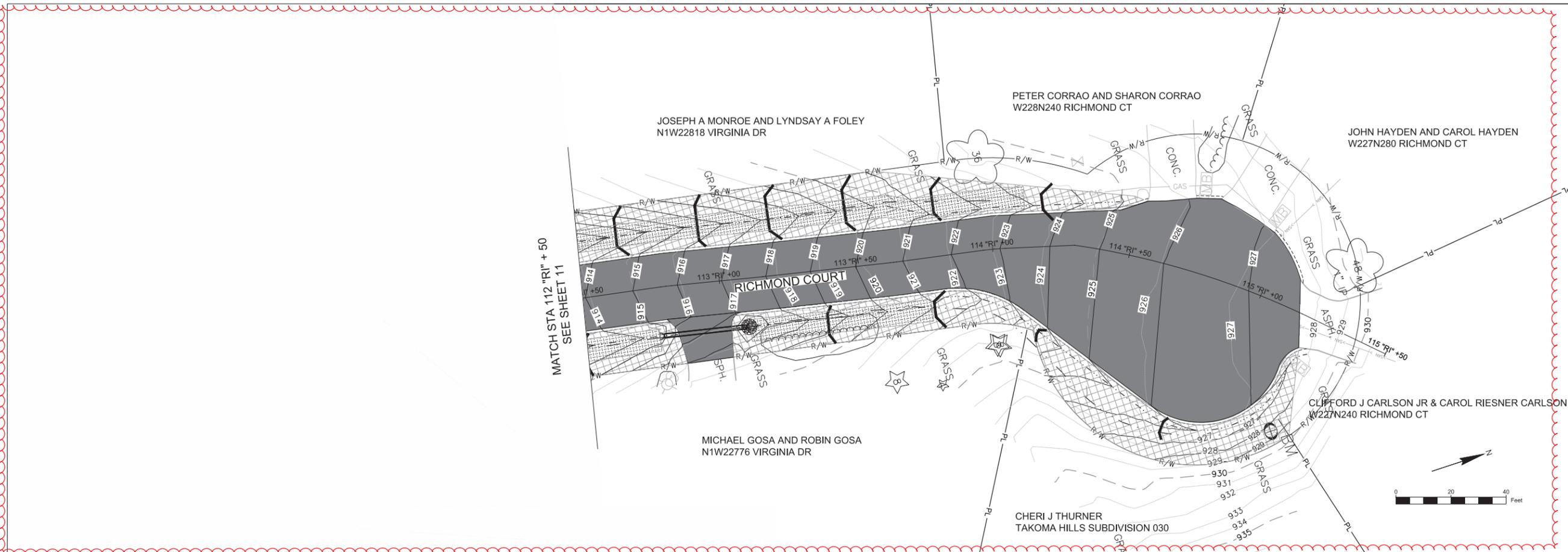


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- XXXXXXXXXXXXXXXXXXXX PAVEMENT SAW CUT
- ~~~~~ UTILITY REMOVAL
- ASPHALT PAVEMENT REMOVAL
- CONCRETE PAVEMENT REMOVAL



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MATCH STA 112 "R" + 50
 SEE SHEET 11

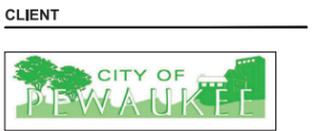
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| | |
|---|---|
|  | INSTALL CLASS I URBAN TYPE B EMAT |
|  | CULVERT PIPE CHECK (UPSTREAM END ONLY) |
|  | INSTALL EROSION CONTROL LOG |
|  | INSTALL CLASS III TYPE B EMAT |





PROJECT
TAKOMA HILLS STREET RECONSTRUCTION PHASE I



W240 N3065 PEWAUKEE ROAD
 PEWAUKEE, WI 53072
 TELE: 262-691-0770

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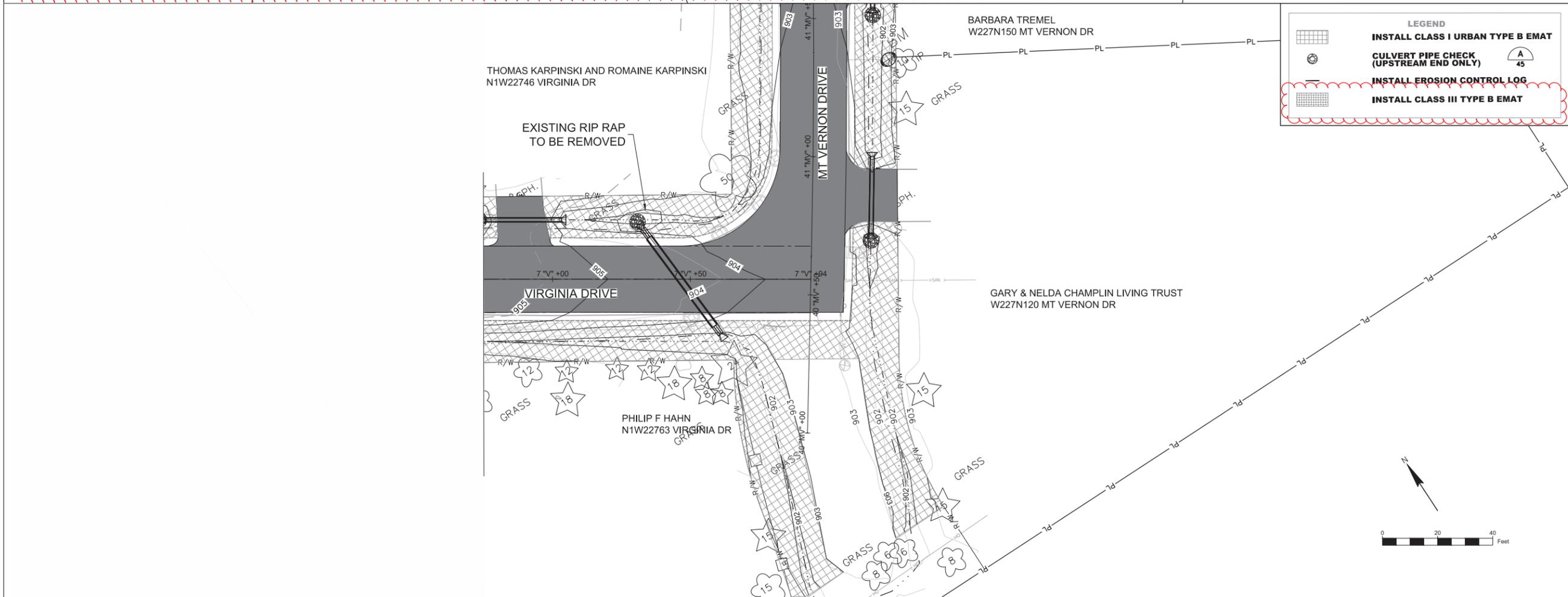
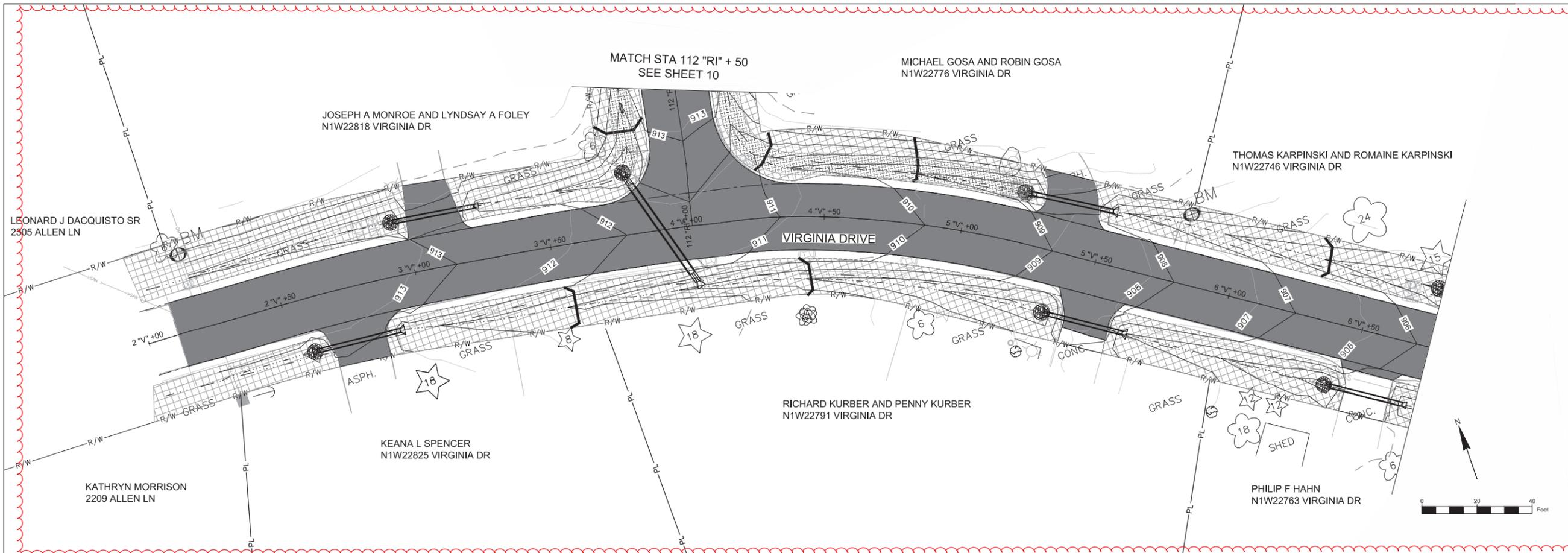
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PROJECT NUMBER
 60339891

SHEET TITLE
 RICHMOND CT EC

SHEET NUMBER
 10

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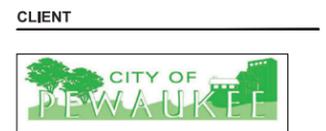


LEGEND

- INSTALL CLASS I URBAN TYPE B EMAT**
- CULVERT PIPE CHECK (UPSTREAM END ONLY)**
- INSTALL EROSION CONTROL LOG**
- INSTALL CLASS III TYPE B EMAT**



PROJECT
TAKOMA HILLS STREET RECONSTRUCTION PHASE I



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KEY PLAN

PROJECT NUMBER
60339891

SHEET TITLE
VIRGINIA DR EC

SHEET NUMBER
11



W240 N3065 PEWAUKEE ROAD
 PEWAUKEE, WI 53072
 TELE: 262-691-0770

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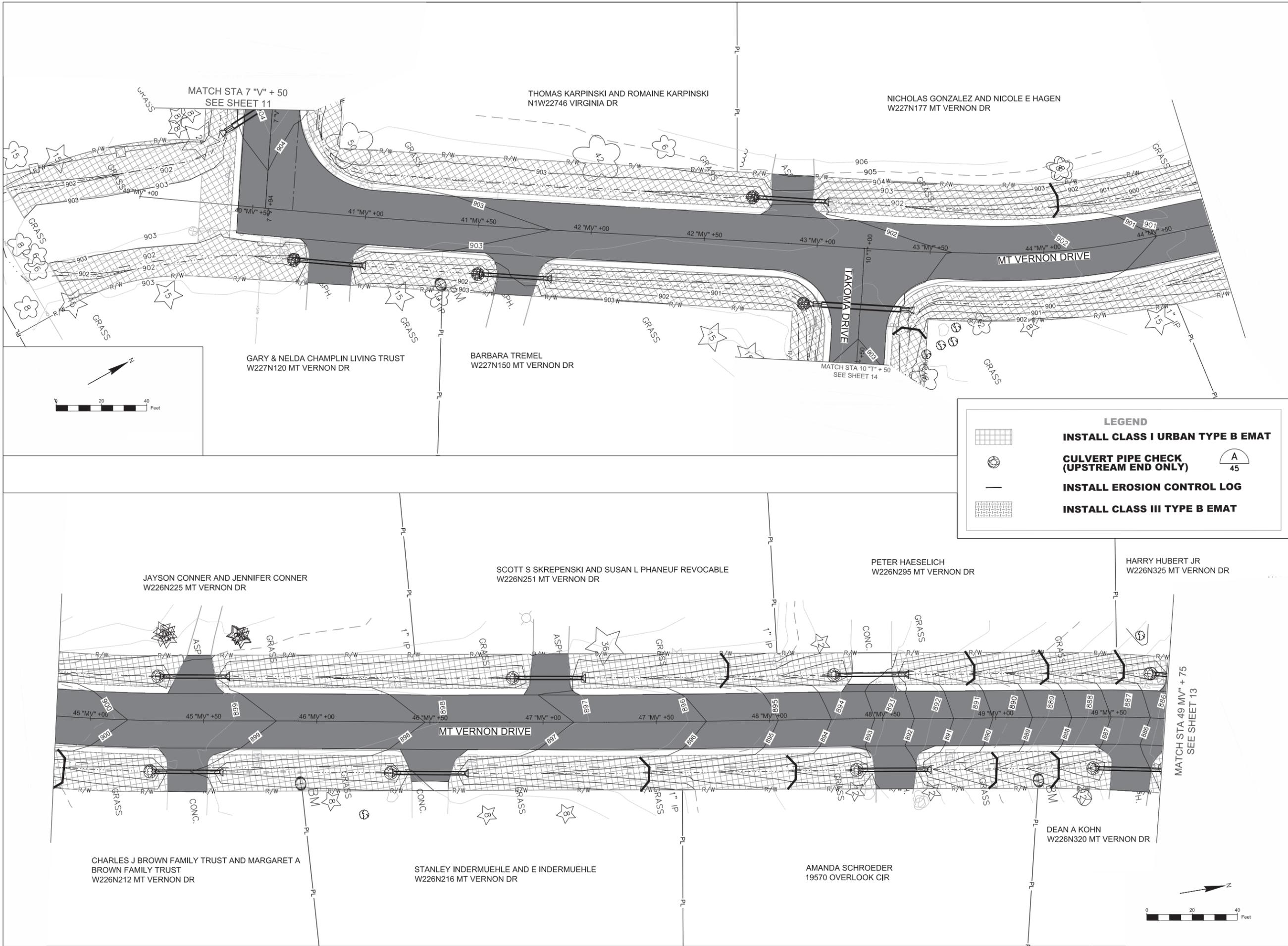
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MT VERNON DR EC 1

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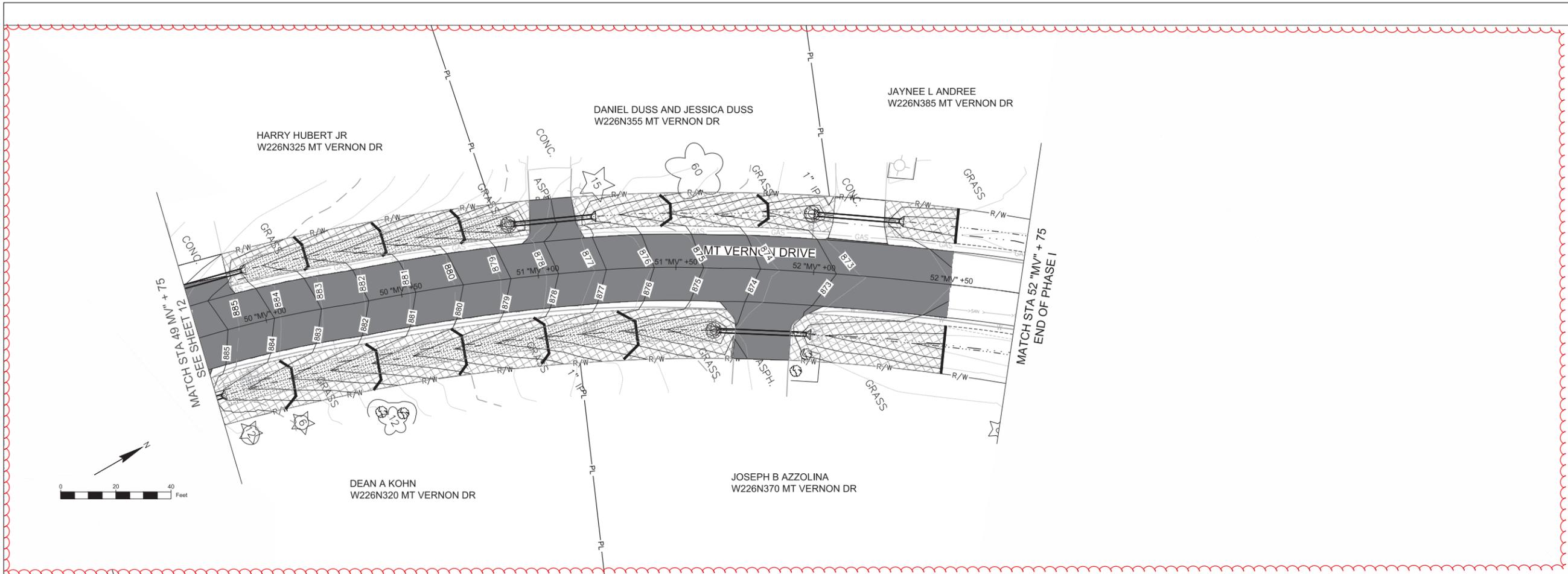
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LEGEND

- INSTALL CLASS I URBAN TYPE B EMAT**
- CULVERT PIPE CHECK (UPSTREAM END ONLY)**
- INSTALL EROSION CONTROL LOG**
- INSTALL CLASS III TYPE B EMAT**

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LEGEND

| | |
|---|---|
|  | INSTALL CLASS I URBAN TYPE B EMAT |
|  | CULVERT PIPE CHECK (UPSTREAM END ONLY) |
|  | INSTALL EROSION CONTROL LOG |
|  | INSTALL CLASS III TYPE B EMAT |



PROJECT
TAKOMA HILLS STREET RECONSTRUCTION PHASE I

CLIENT



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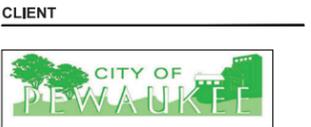
SHEET TITLE

MT VERNON DR EC 2

SHEET NUMBER

13

PROJECT
TAKOMA HILLS STREET RECONSTRUCTION PHASE I



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 PEWAUKEE, WI 53072
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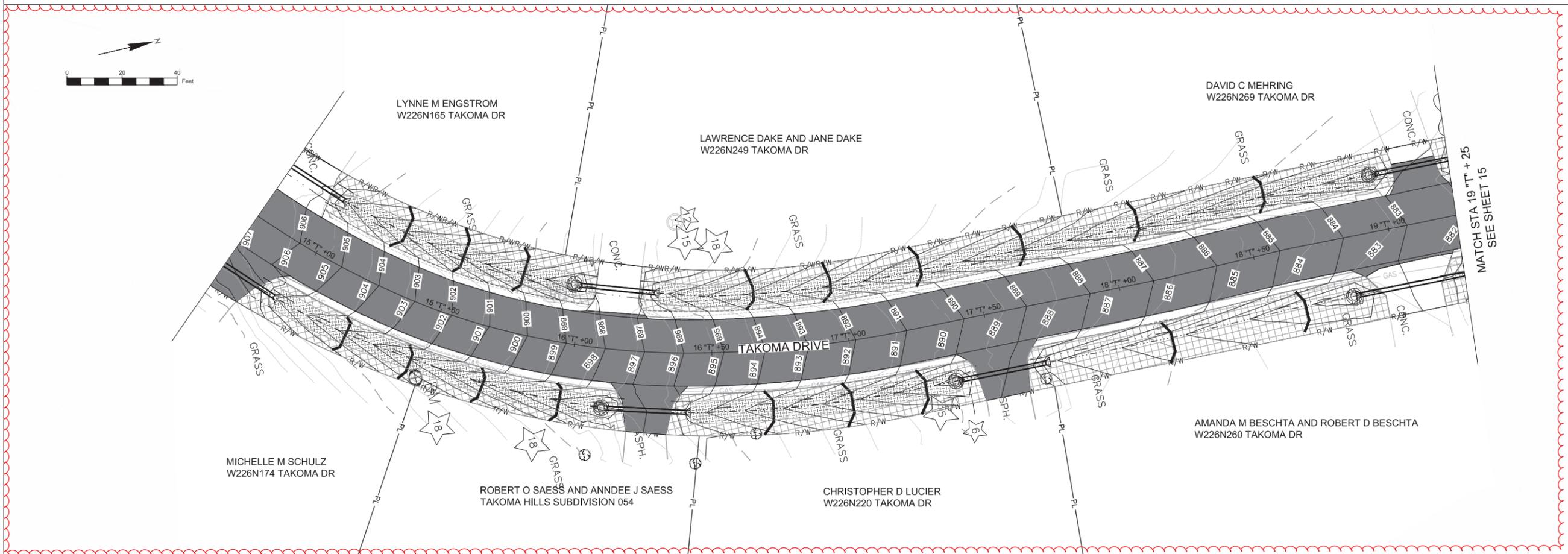
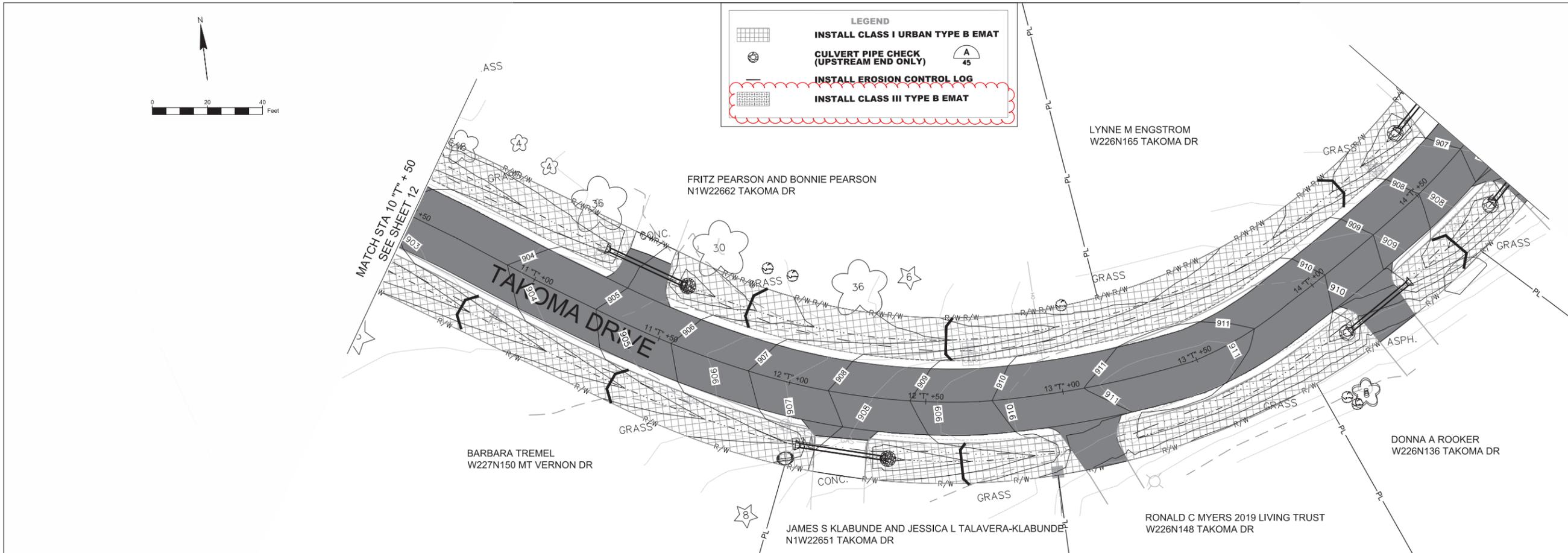
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PROJECT NUMBER
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SHEET TITLE
 TAKOMA DR EC 1

SHEET NUMBER
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PROJECT
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 TELE: 262-691-0770

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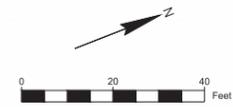
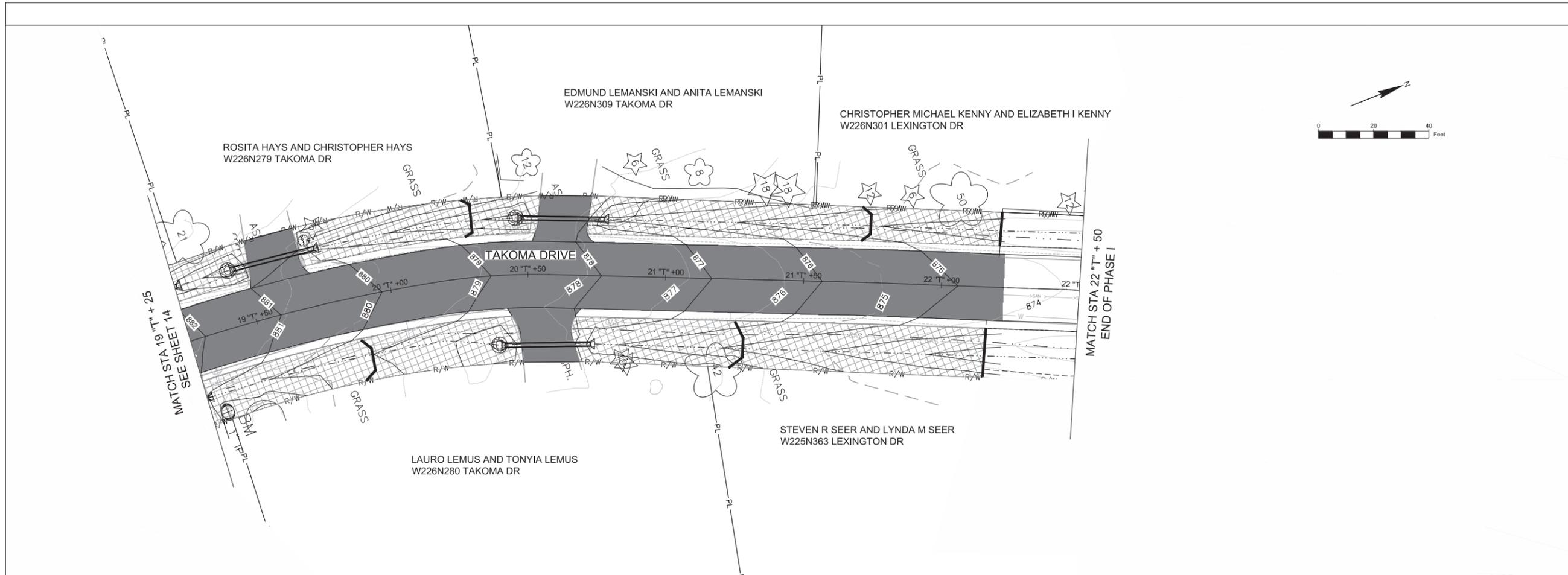
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SHEET TITLE

TAKOMA DR EC 2

SHEET NUMBER

15



LEGEND

| | |
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|  | INSTALL CLASS I URBAN TYPE B EMAT |
|  | CULVERT PIPE CHECK (UPSTREAM END ONLY) |
|  | INSTALL EROSION CONTROL LOG |
|  | INSTALL CLASS III TYPE B EMAT |



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 TELE: 262-691-0770

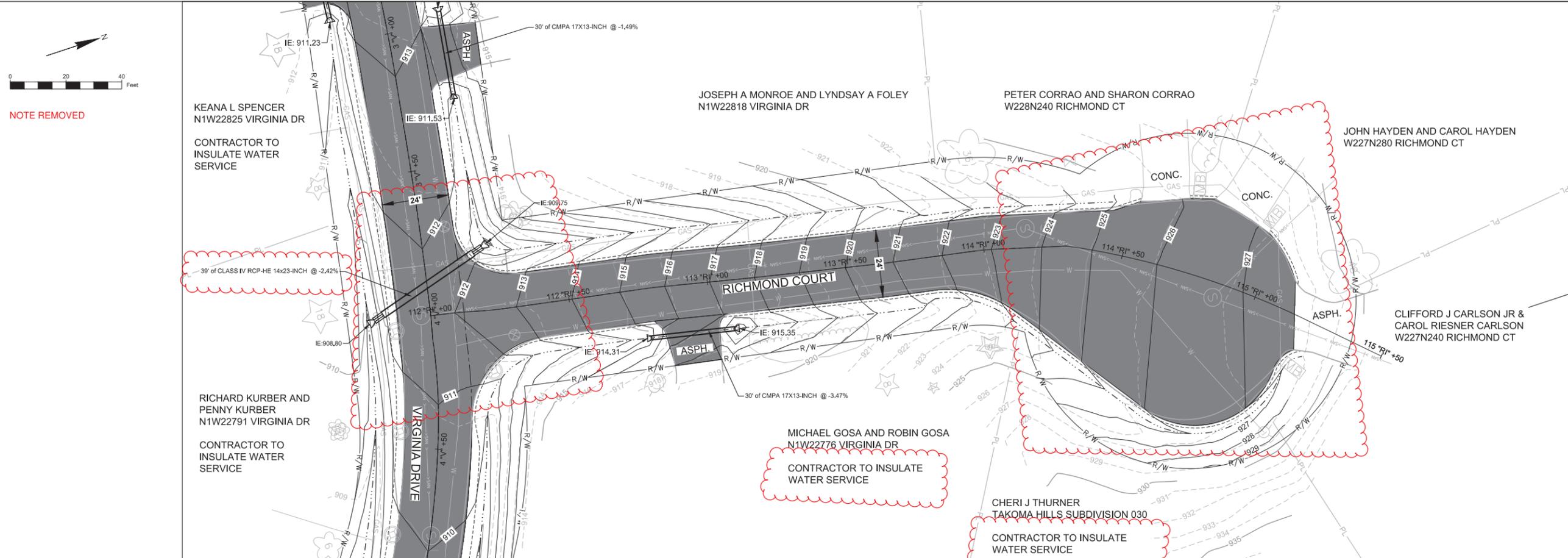
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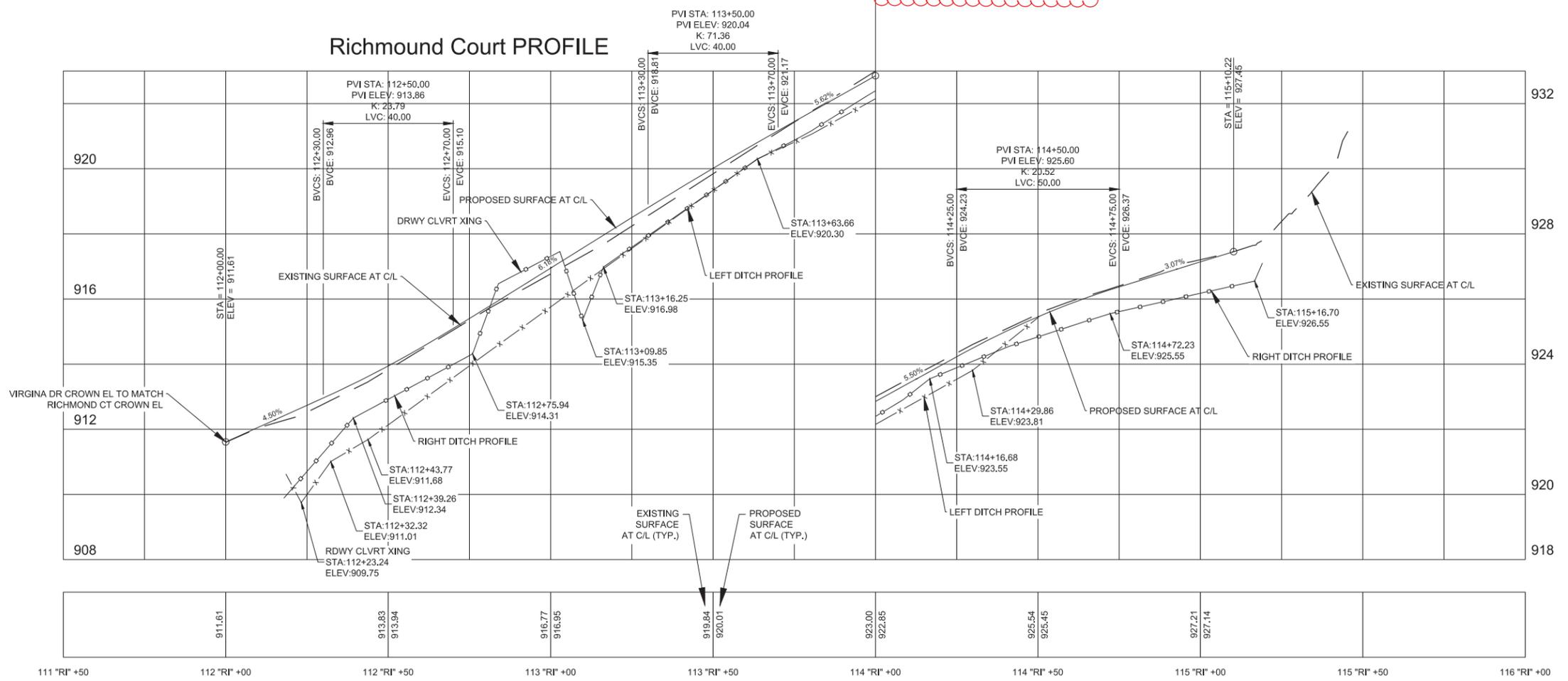
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RICHMOND CT P&P

16

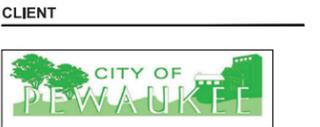


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PROJECT
TAKOMA HILLS STREET RECONSTRUCTION PHASE I



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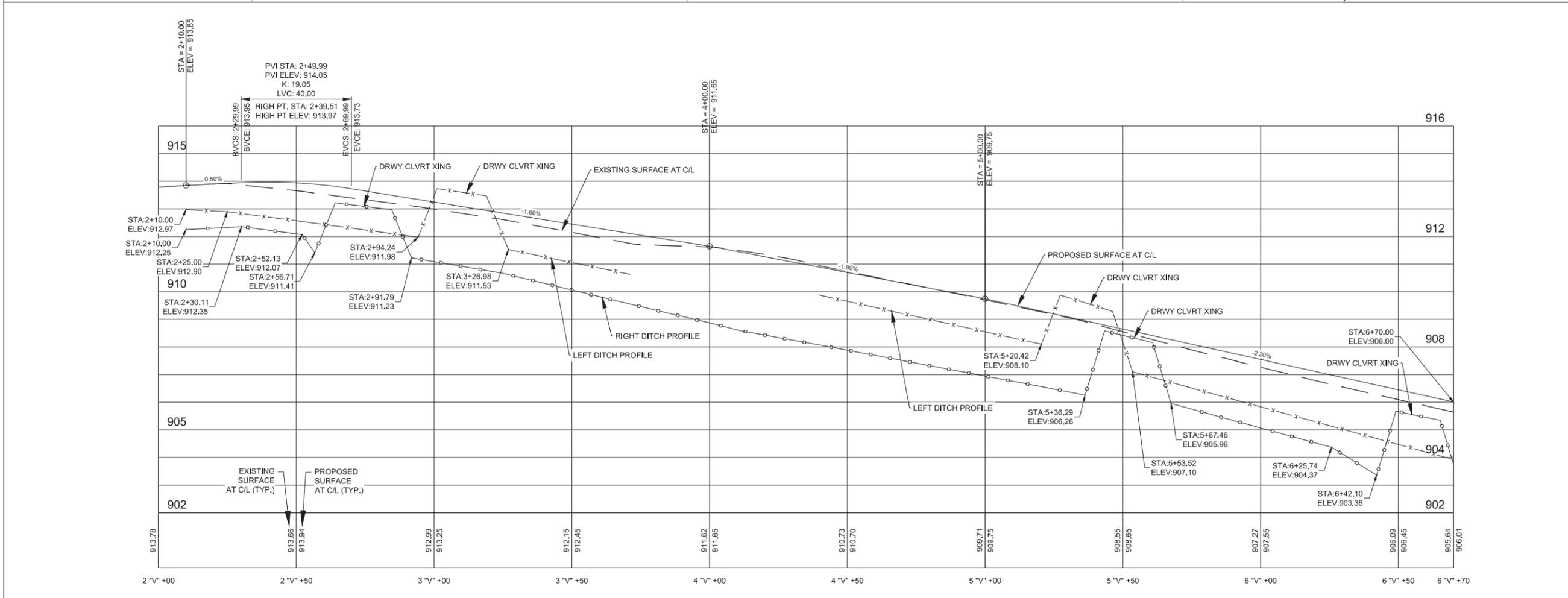
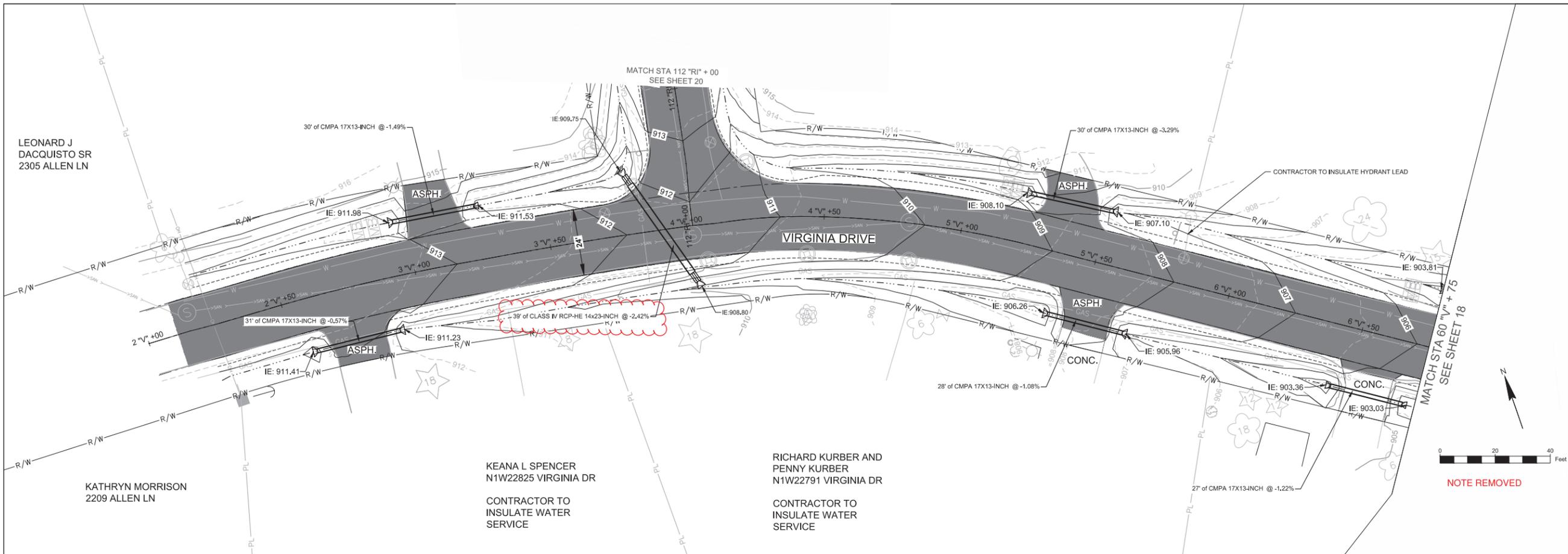
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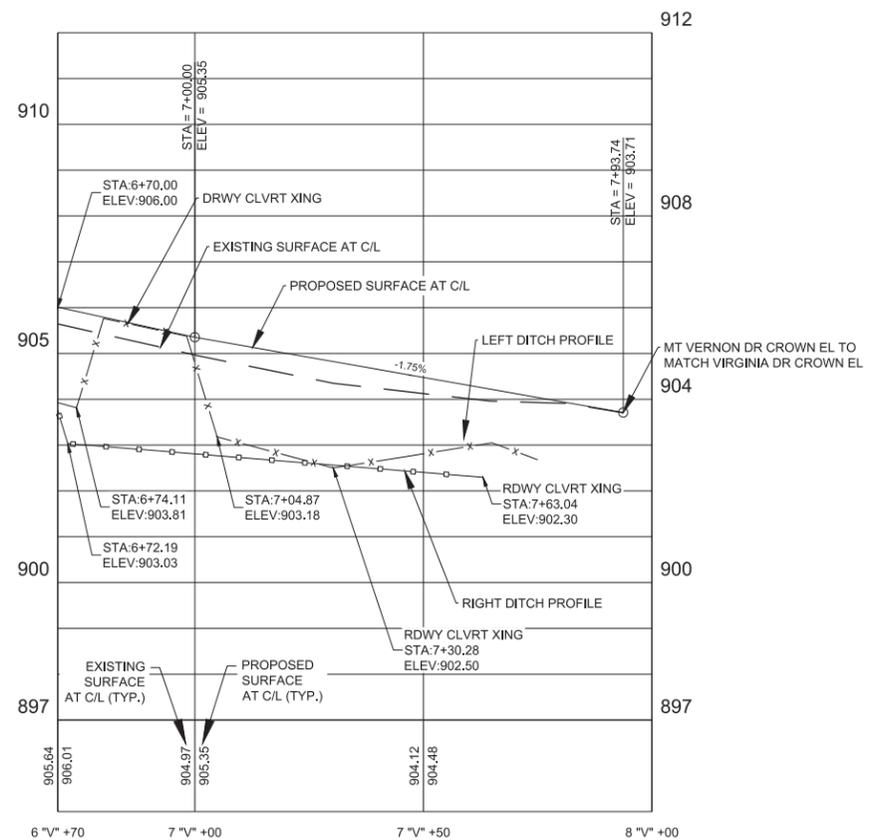
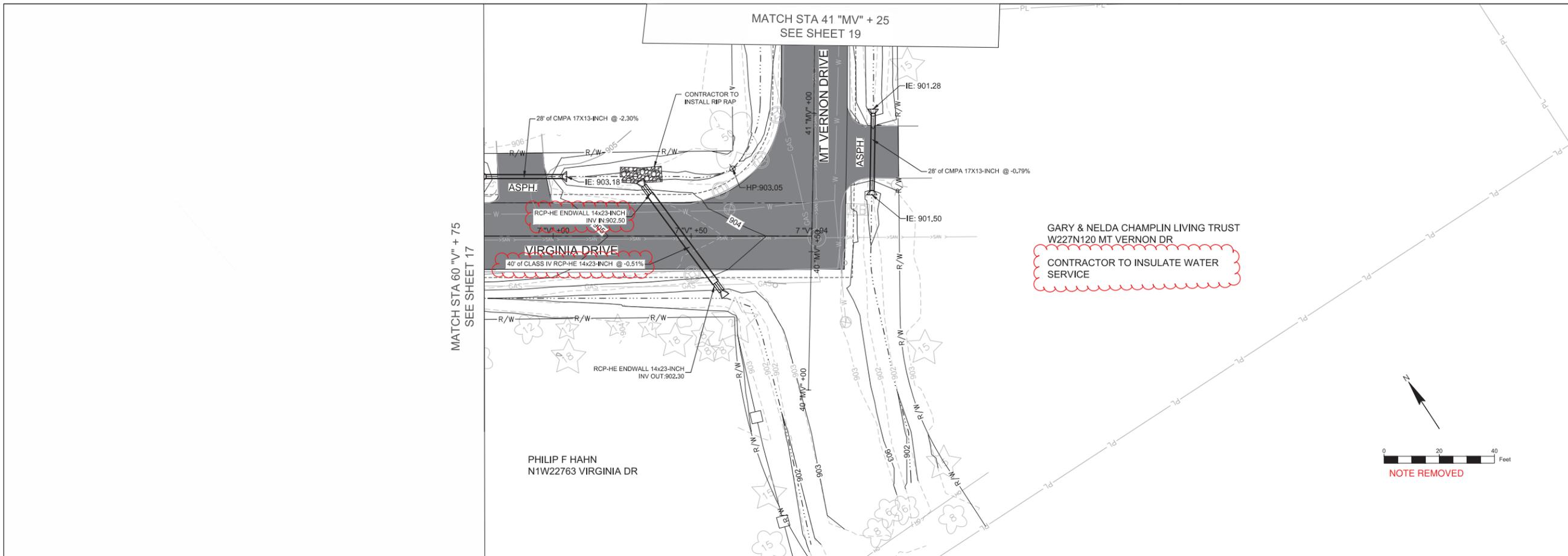
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SHEET TITLE
 VIRGINIA DR P&P 1

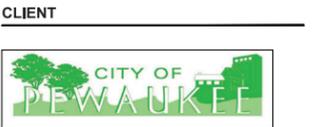
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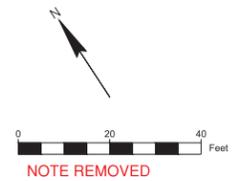


PROJECT
 TAKOMA HILLS
 STREET
 RECONSTRUCTION
 PHASE I



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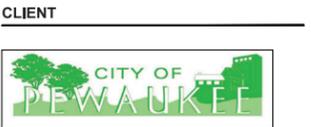
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PROJECT NUMBER
 60339891

SHEET TITLE
 VIRGINIA DR P&P 2

SHEET NUMBER
 18



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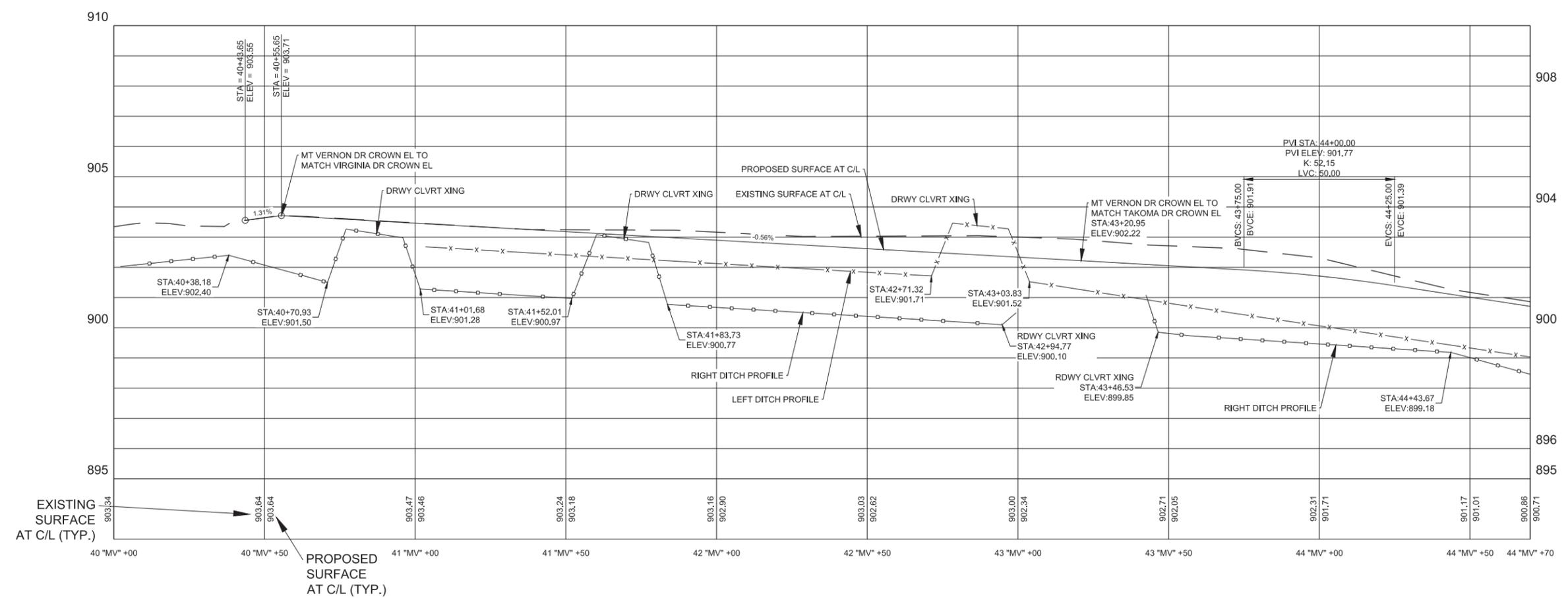
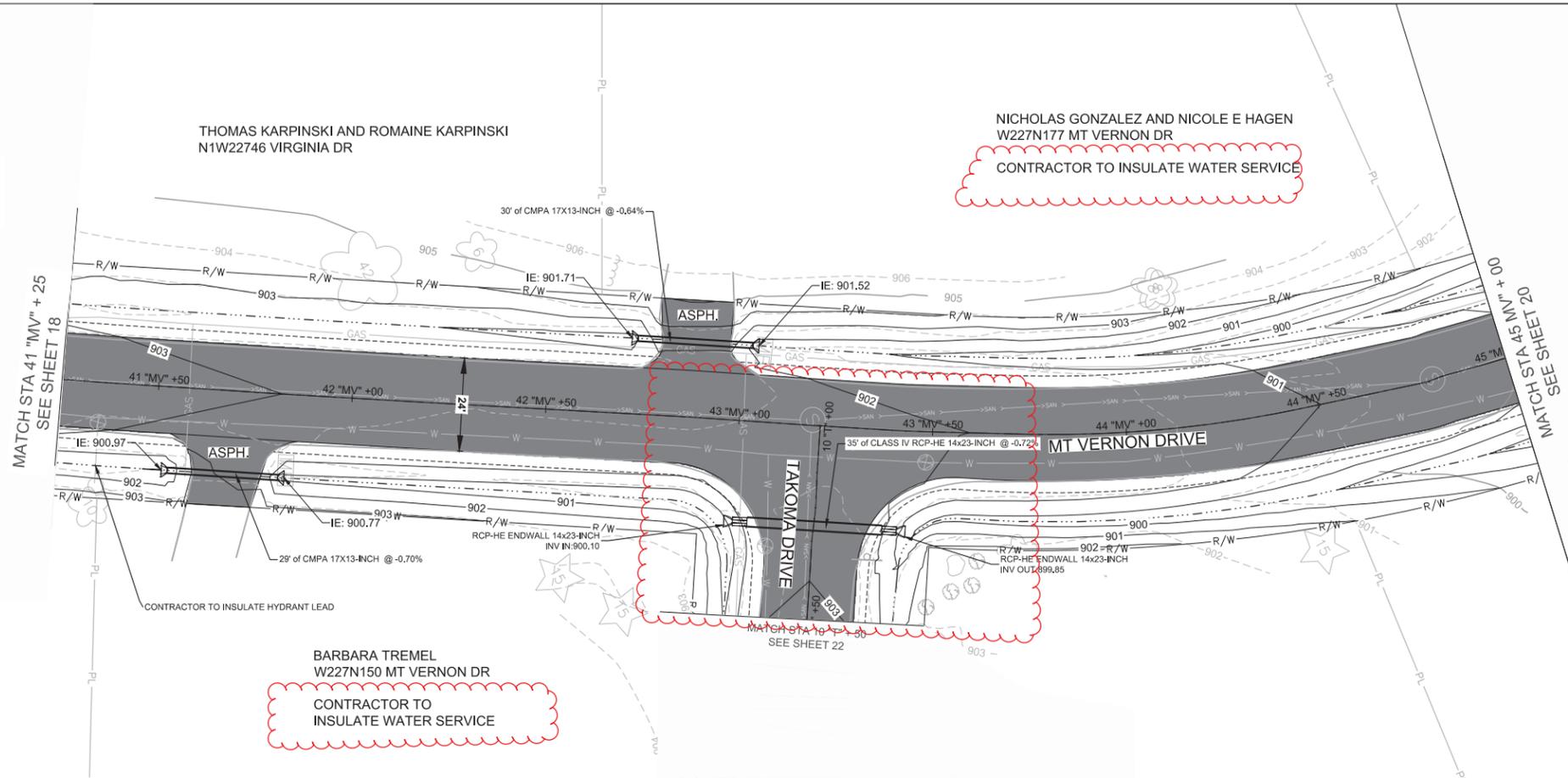
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PROJECT NUMBER
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SHEET TITLE
 MT VERNON DR P&P 1

SHEET NUMBER
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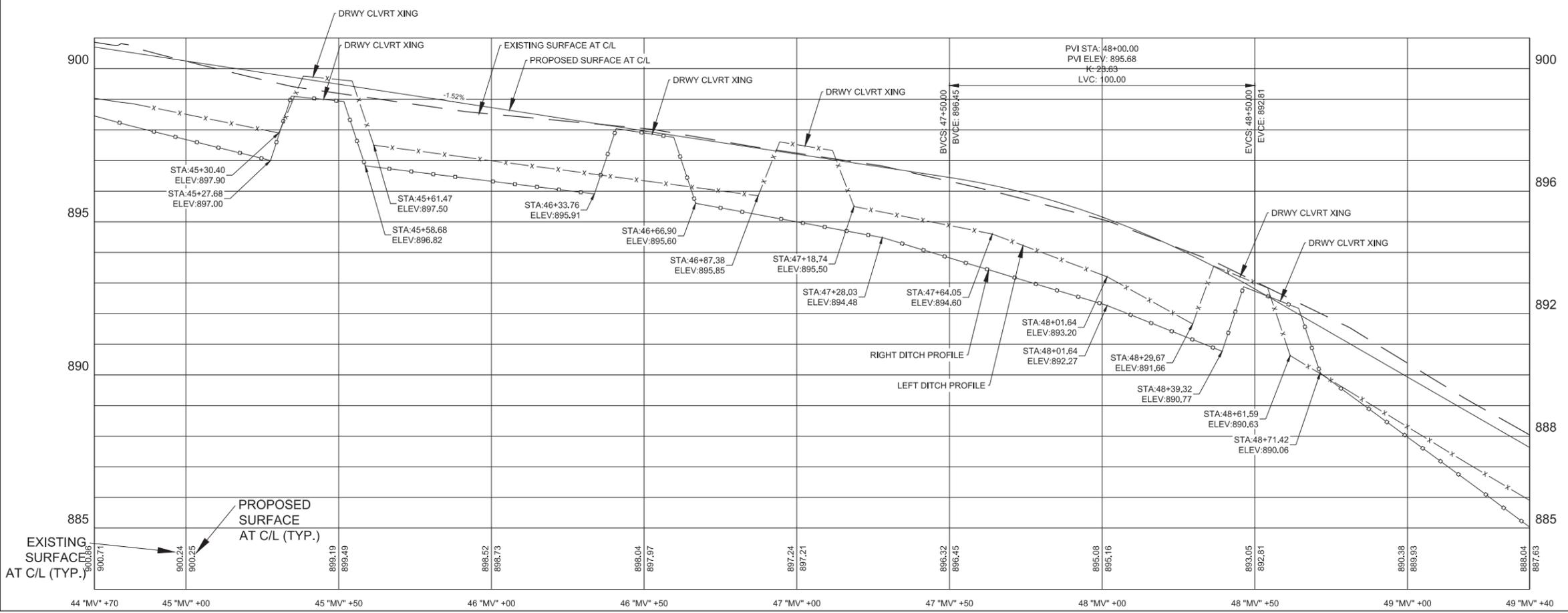
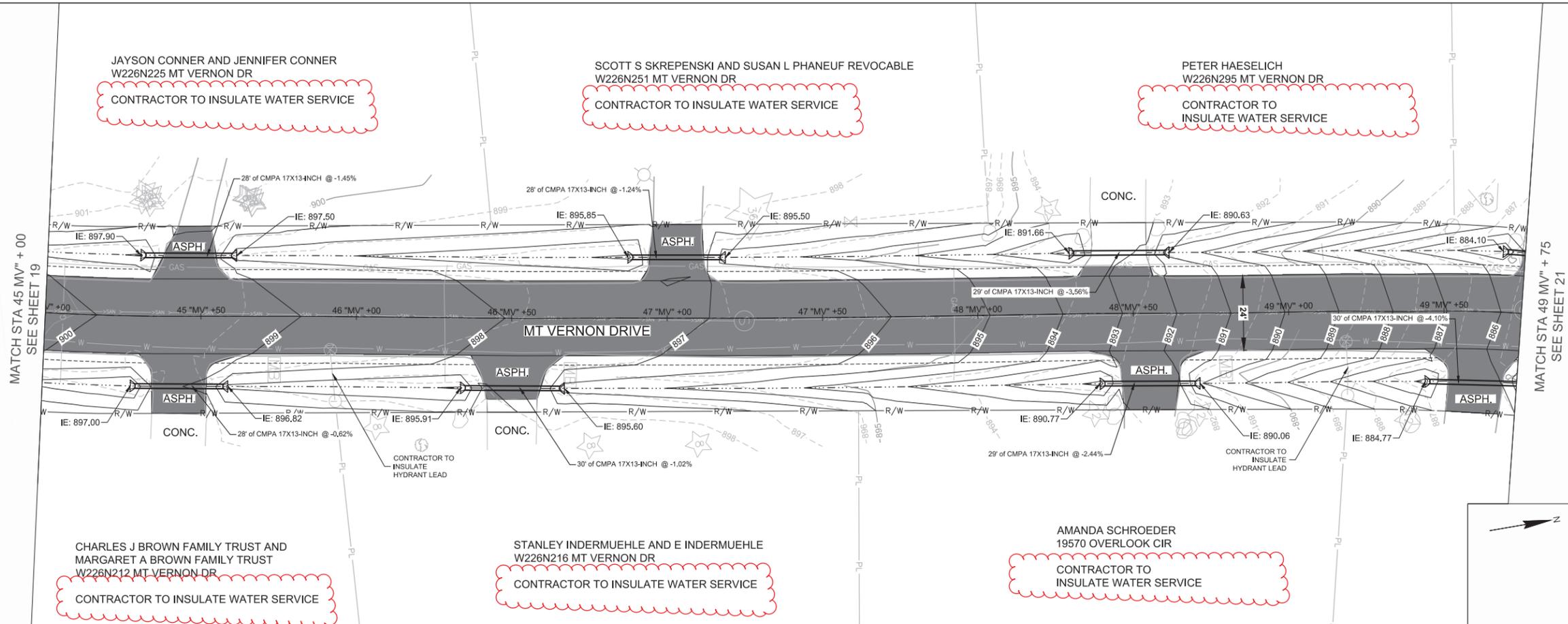
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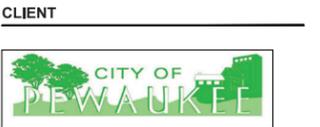
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MT VERNON DR P&P 2

20





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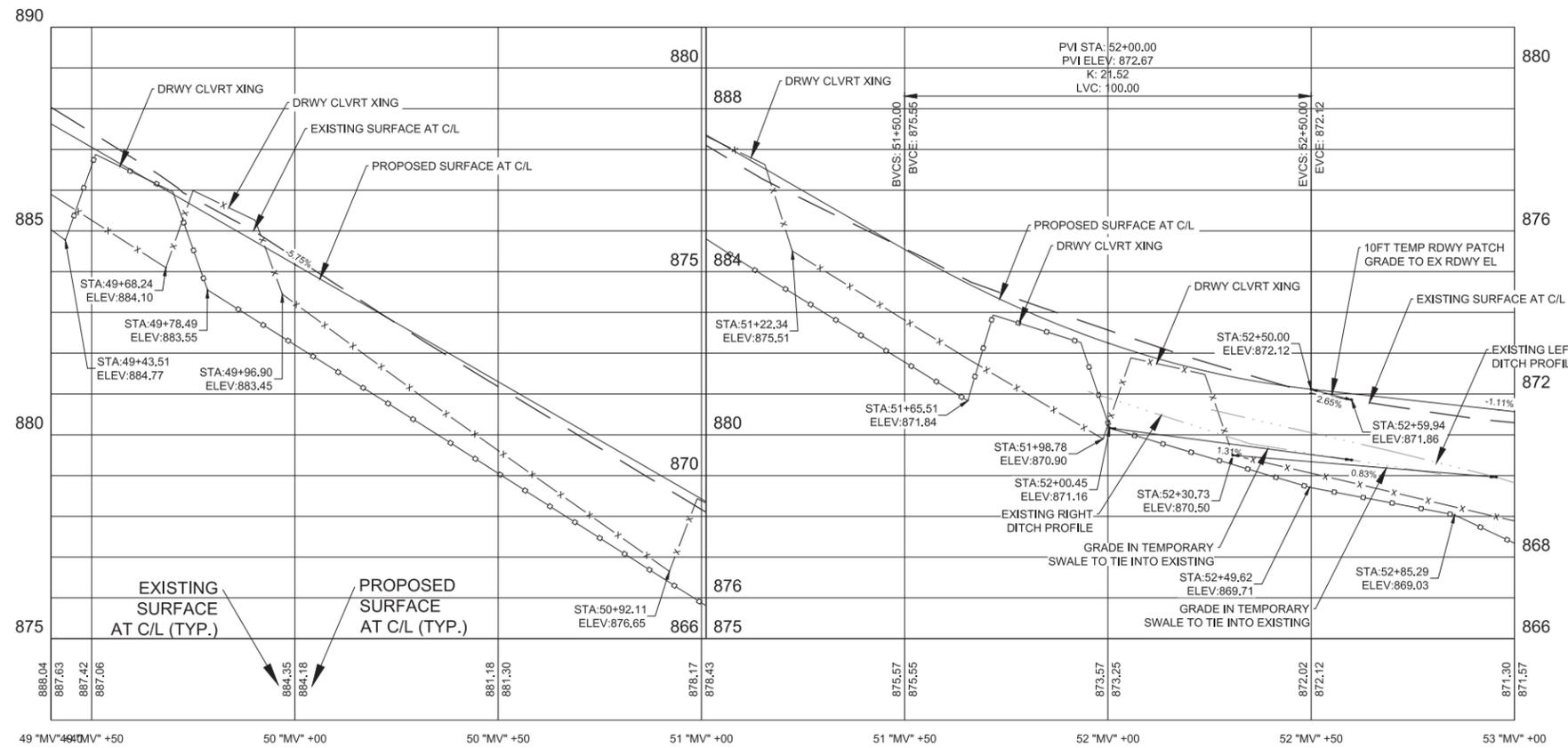
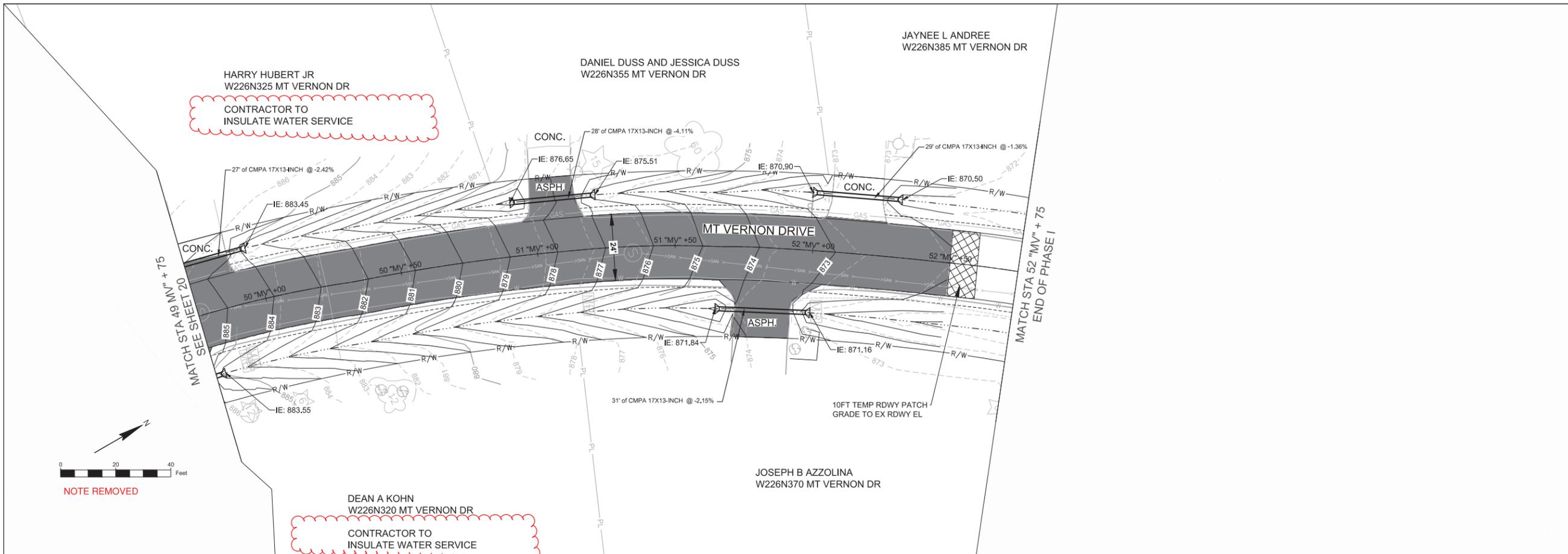
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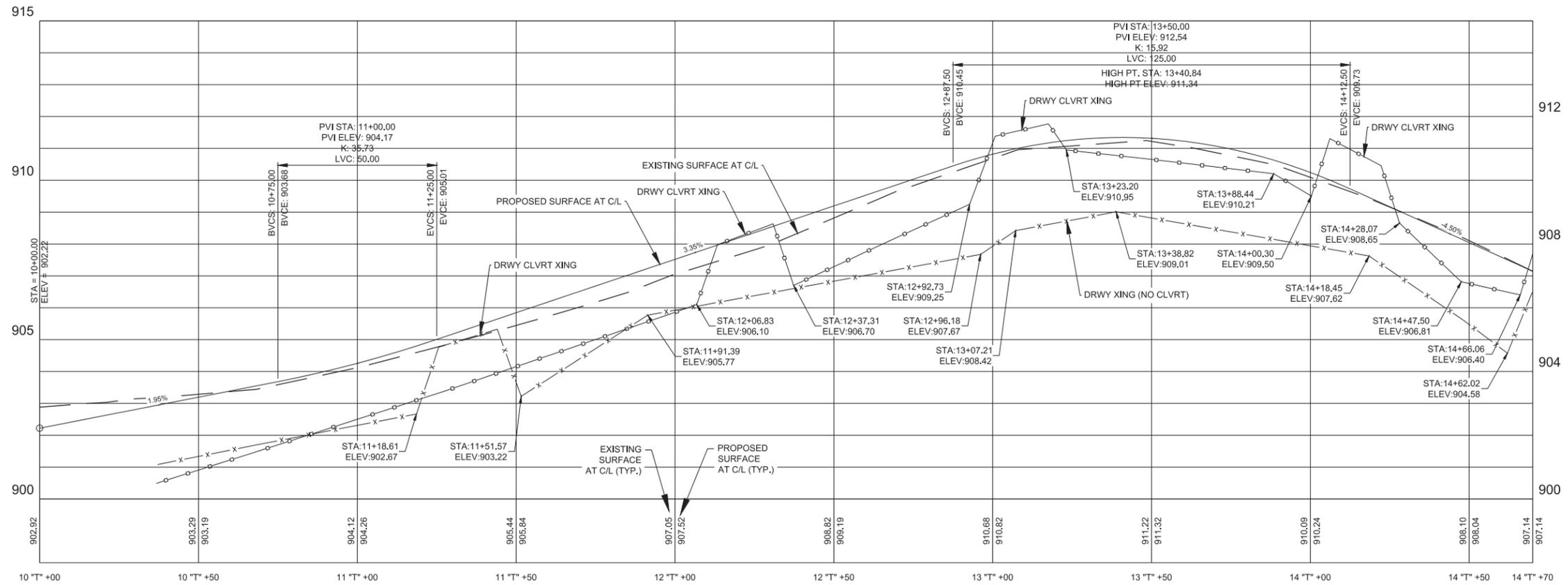
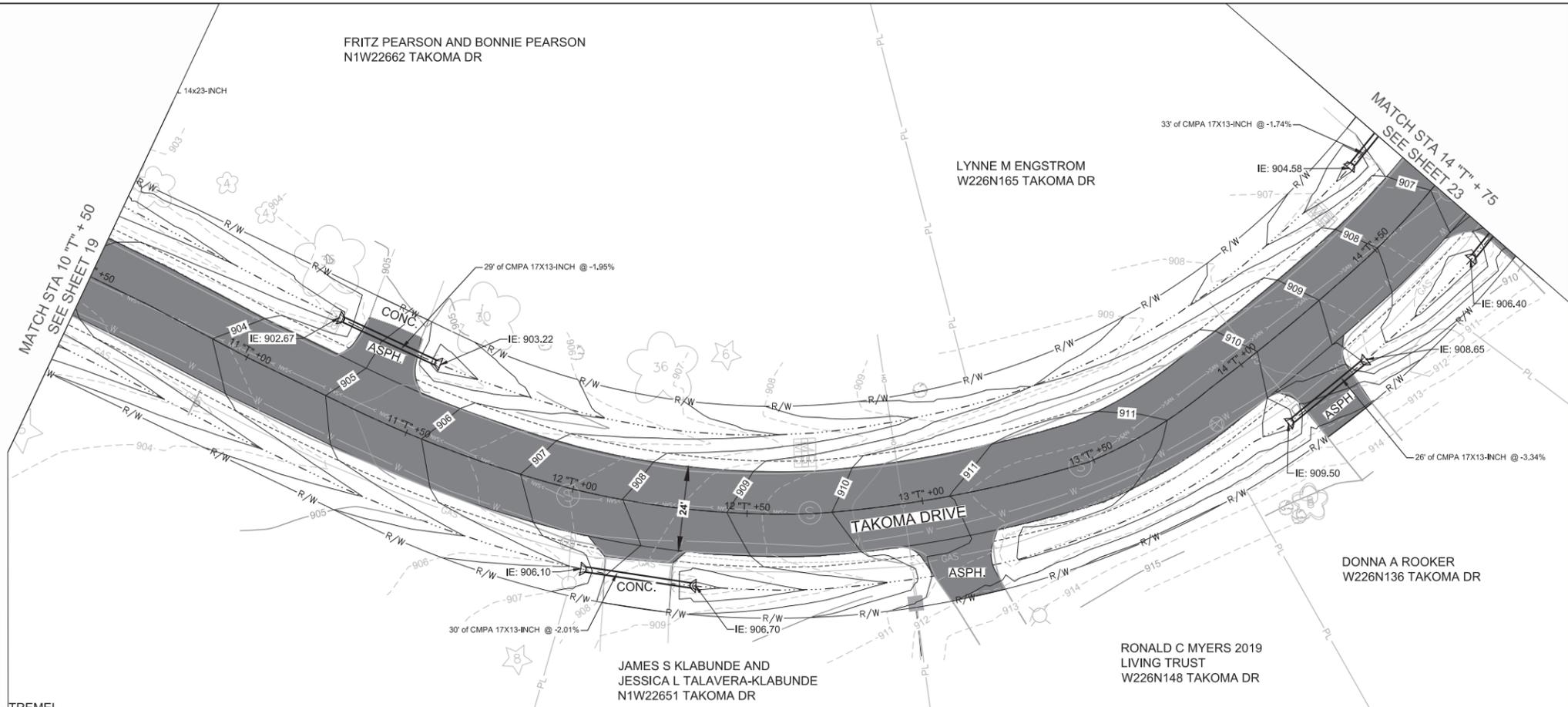
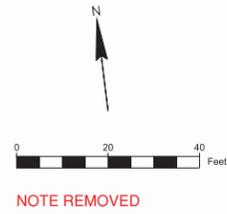
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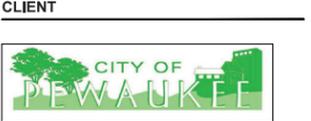
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PROJECT
TAKOMA HILLS STREET RECONSTRUCTION PHASE I



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 60339891

SHEET TITLE
 TAKOMA DR P&P 1

SHEET NUMBER
 22

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PROJECT NUMBER

60339891

SHEET TITLE

TAKOMA DR P&P 2

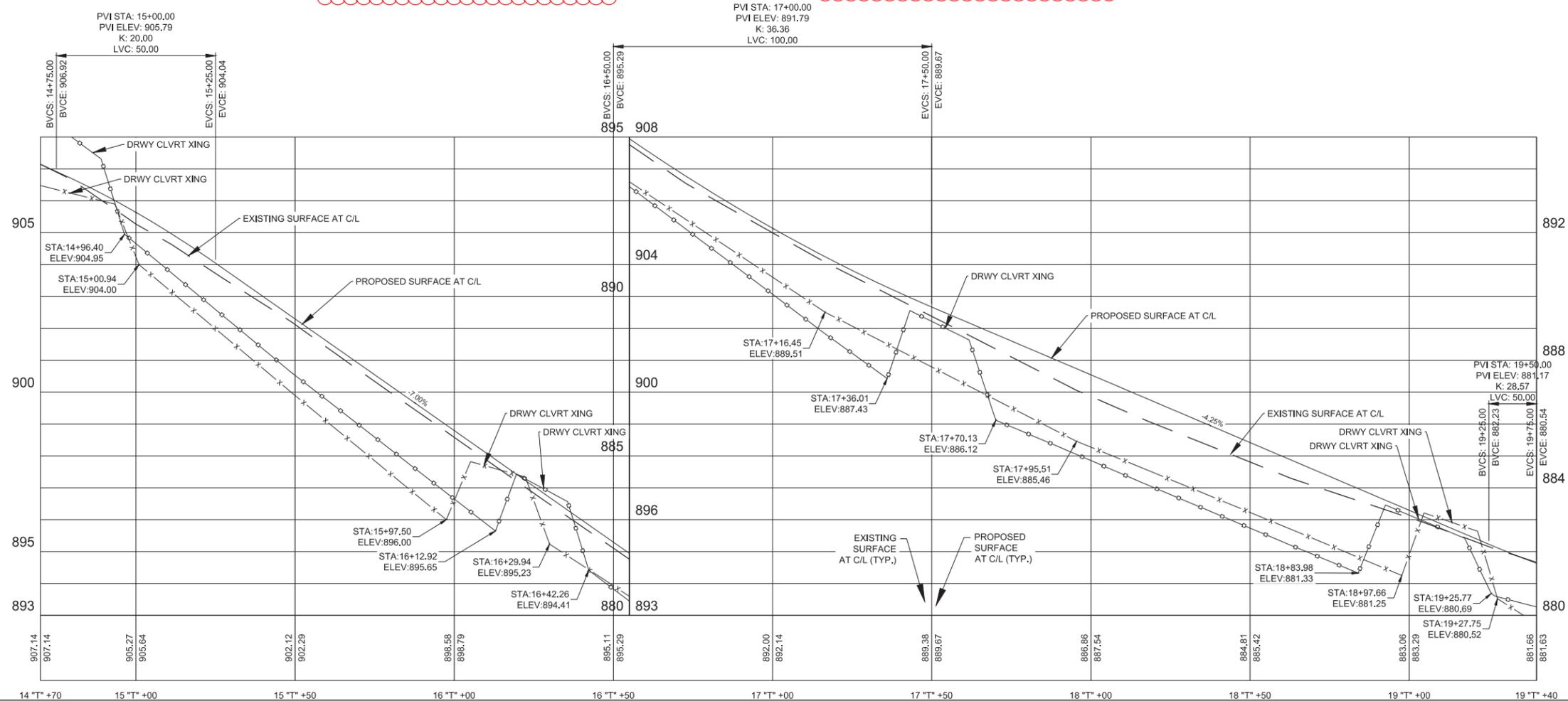
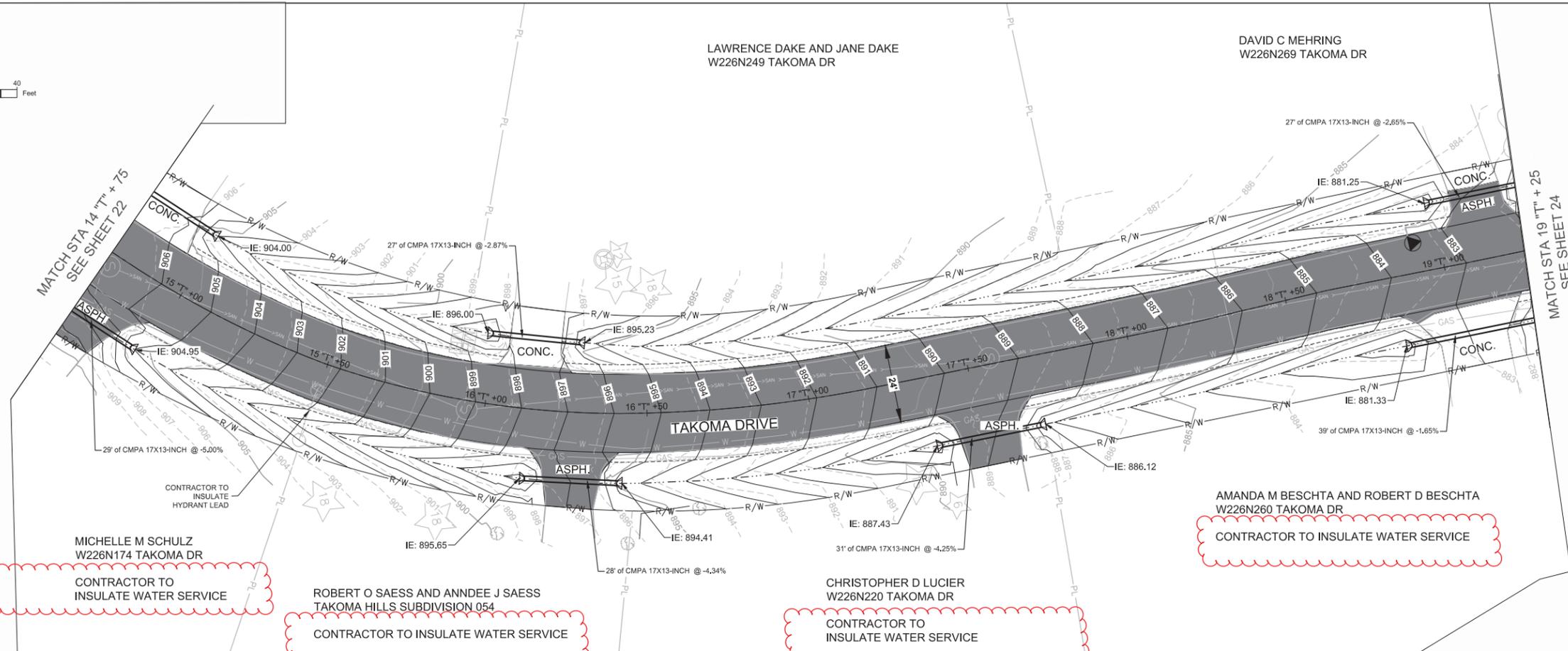
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23



LAWRENCE DAKE AND JANE DAKE
 W226N249 TAKOMA DR

DAVID C MEHRING
 W226N269 TAKOMA DR





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 PEWAUKEE, WI 53072
 TELE: 262-691-0770

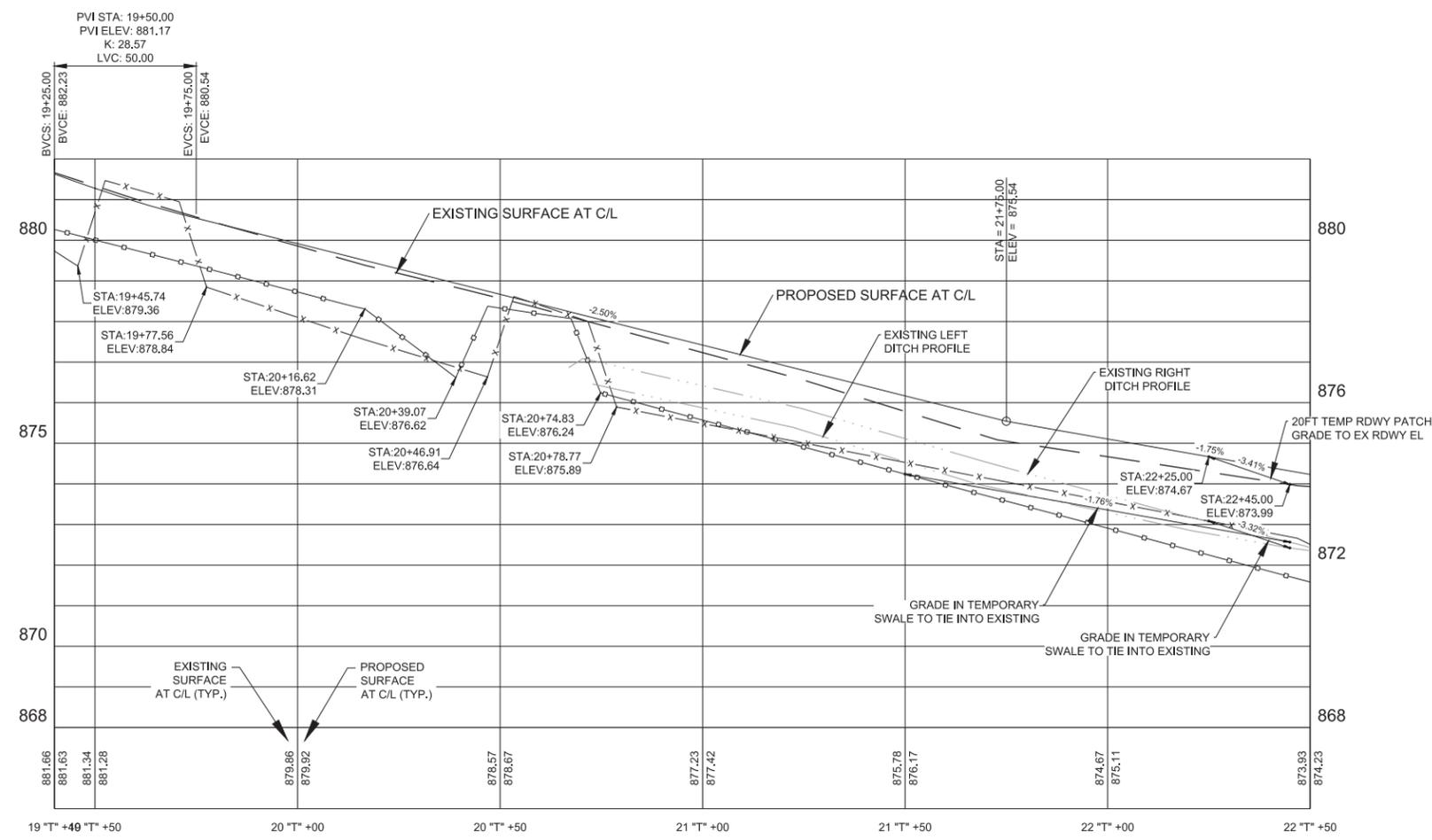
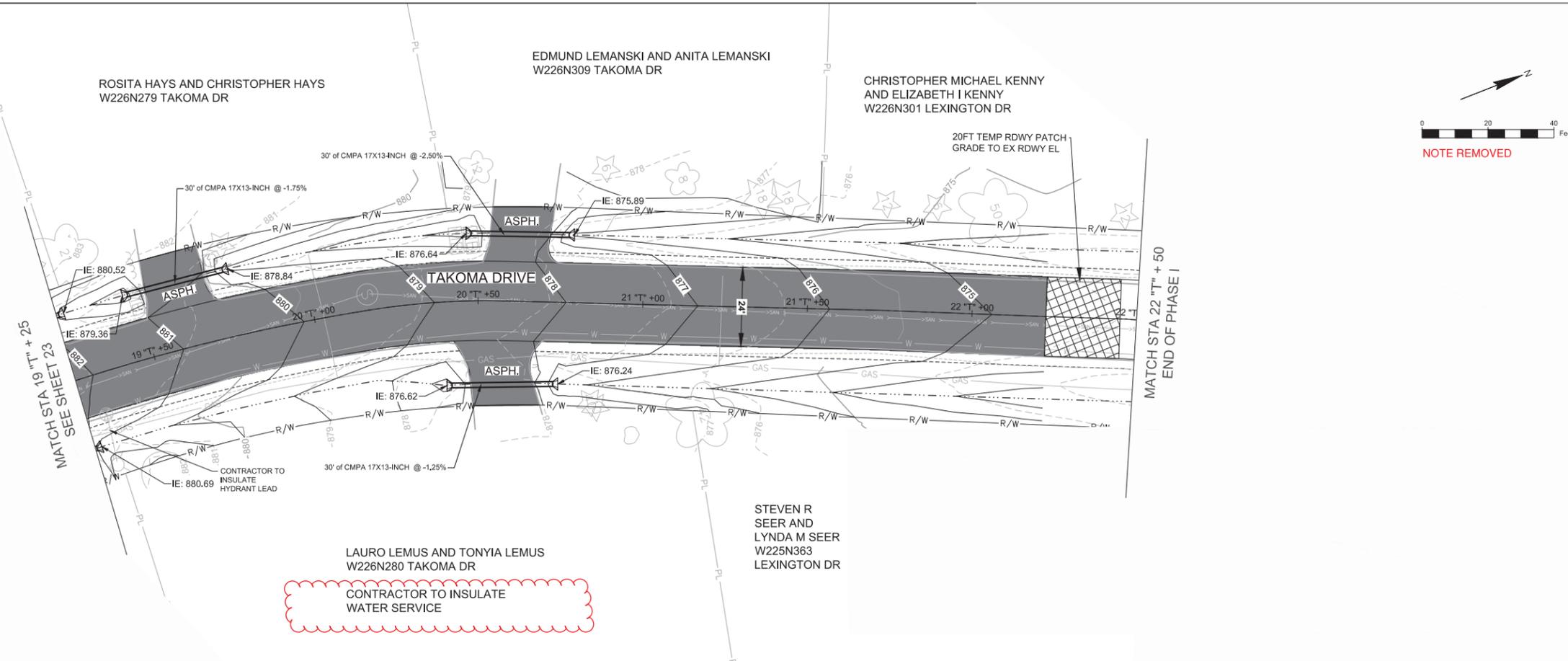
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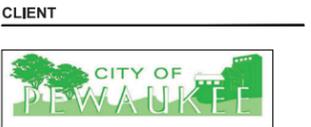
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TAKOMA DR P&P 3

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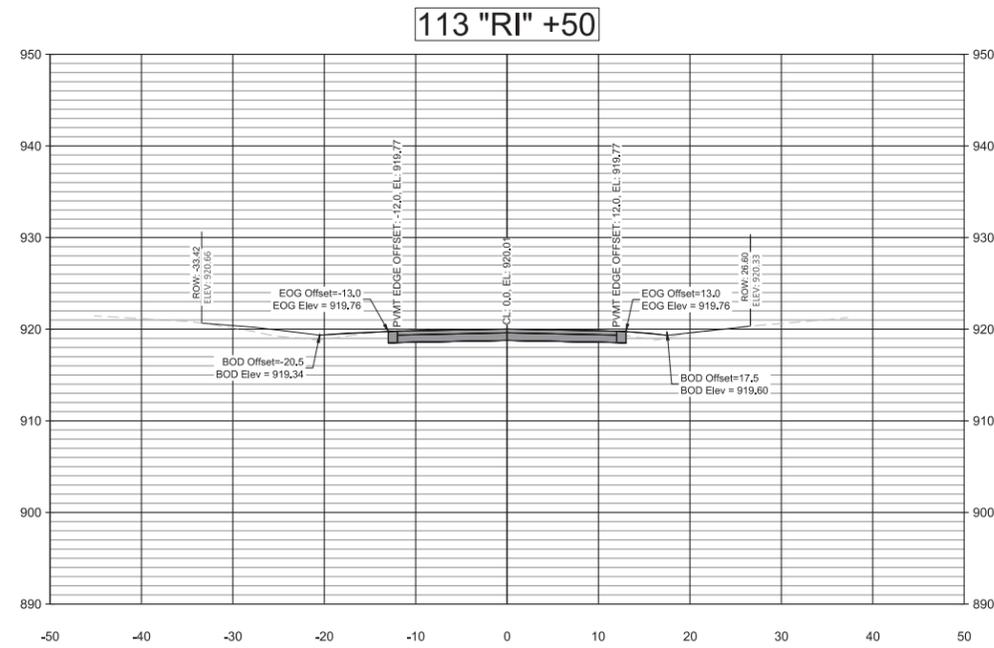
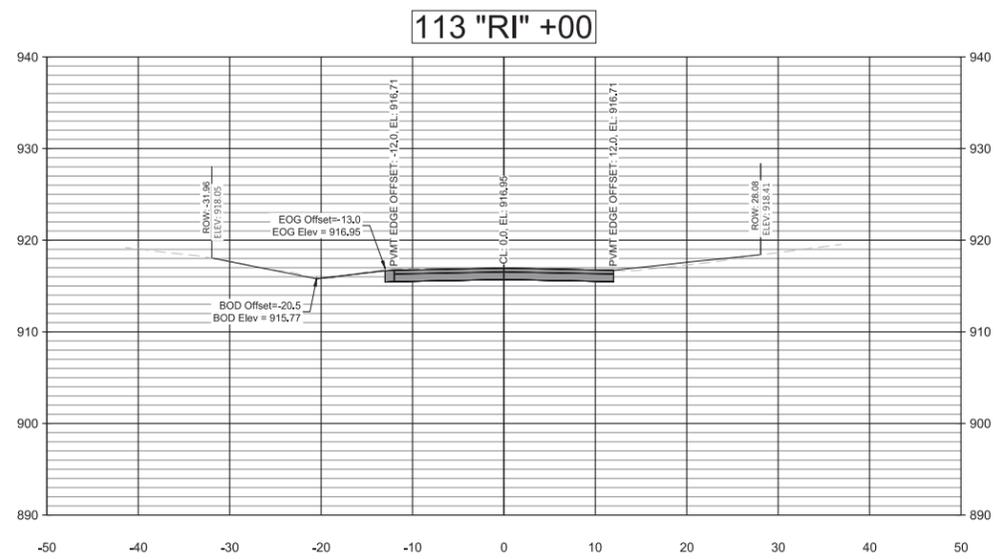
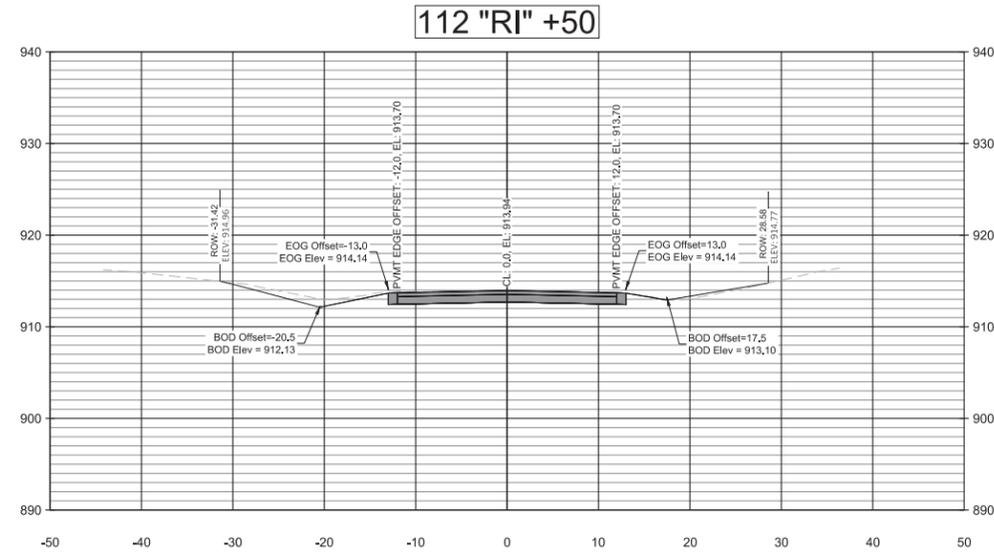
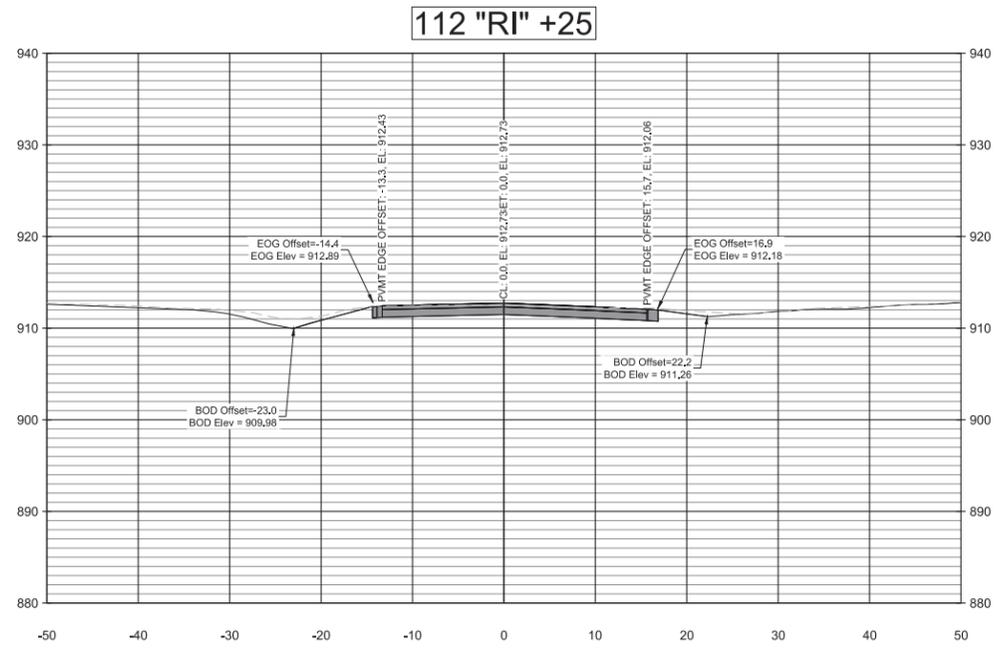
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PROJECT NUMBER
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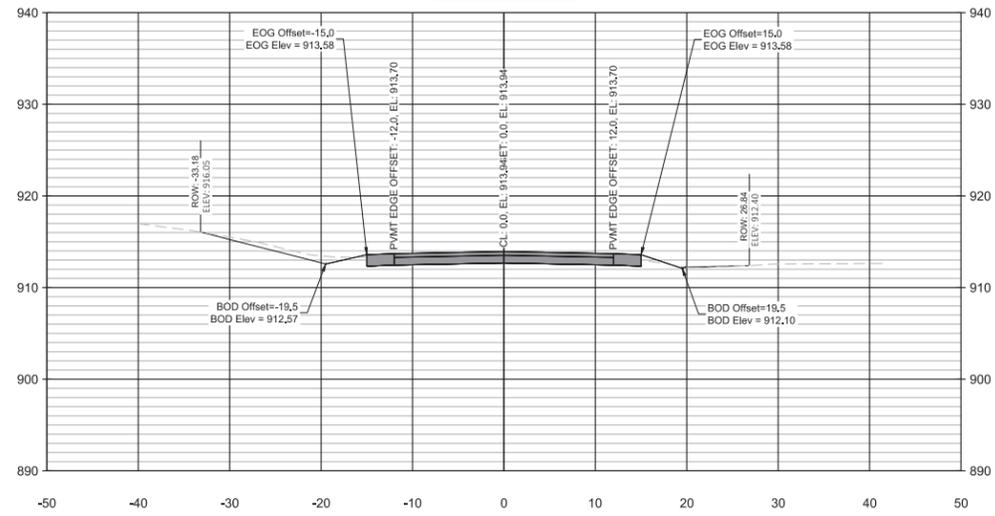
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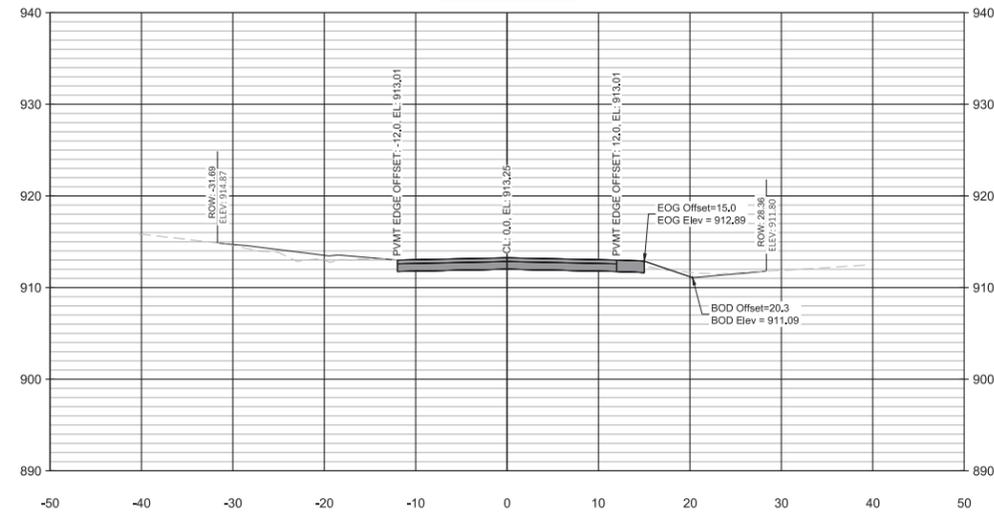
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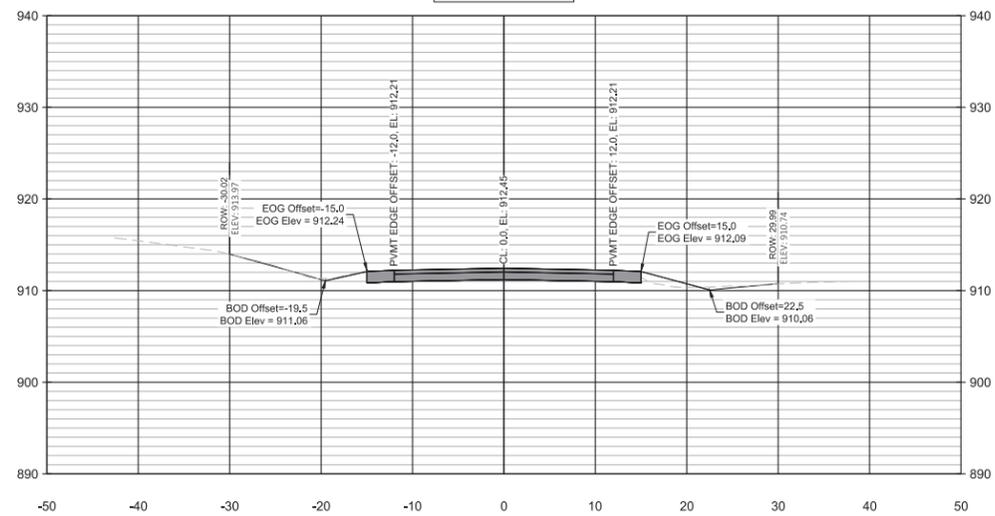
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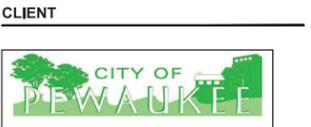


3 "V" +00



3 "V" +50





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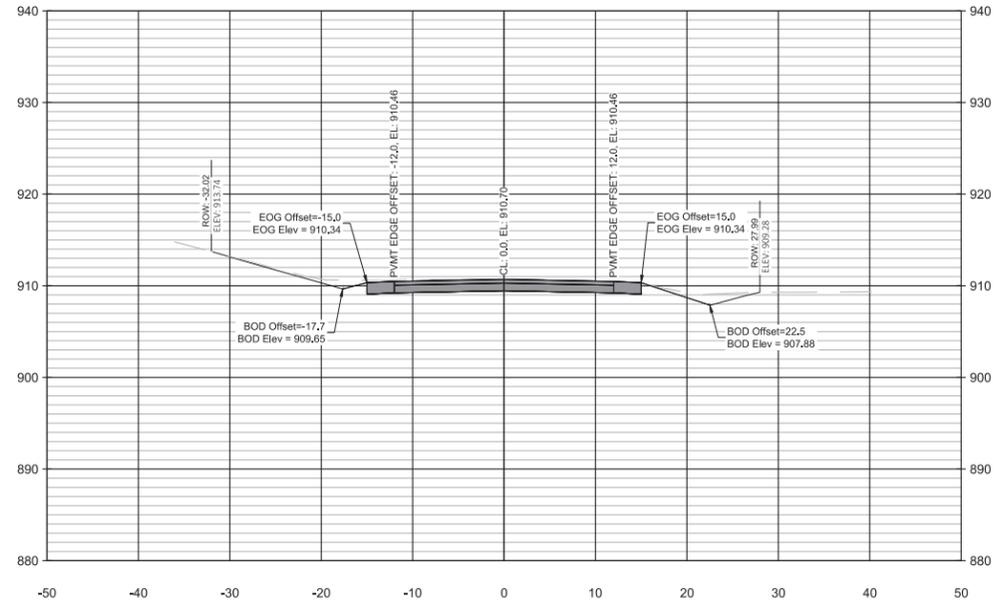
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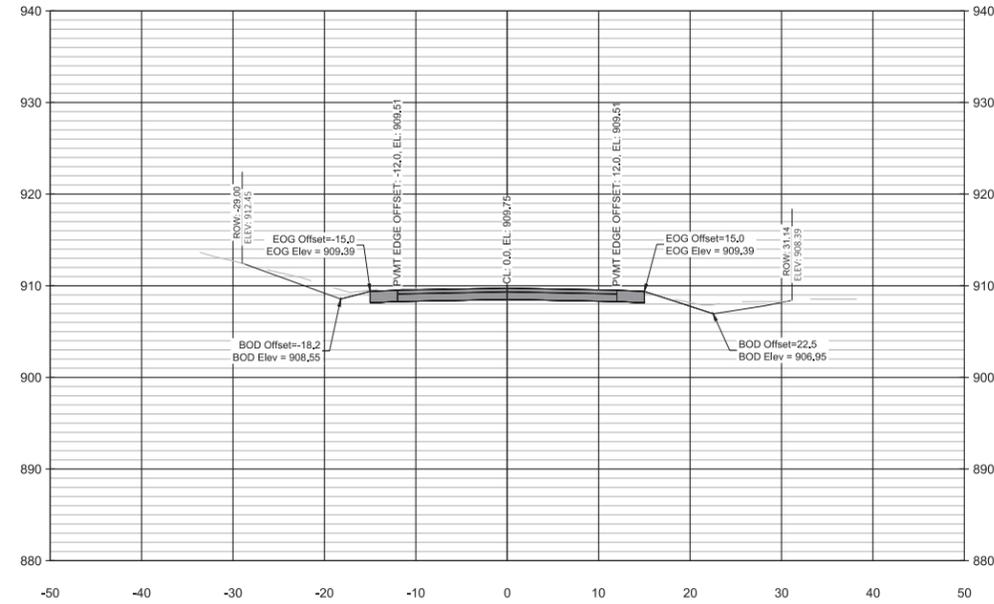
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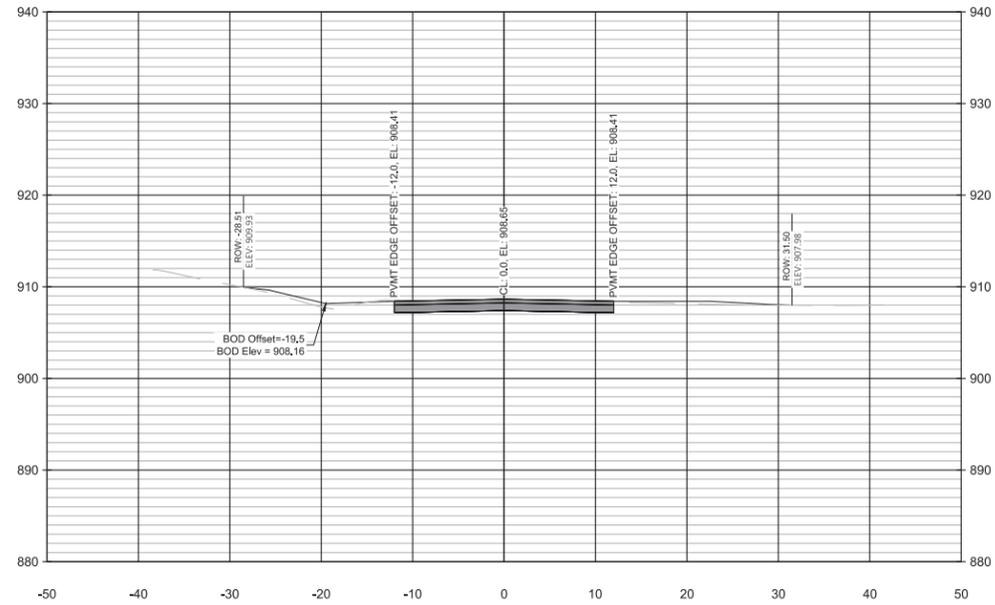
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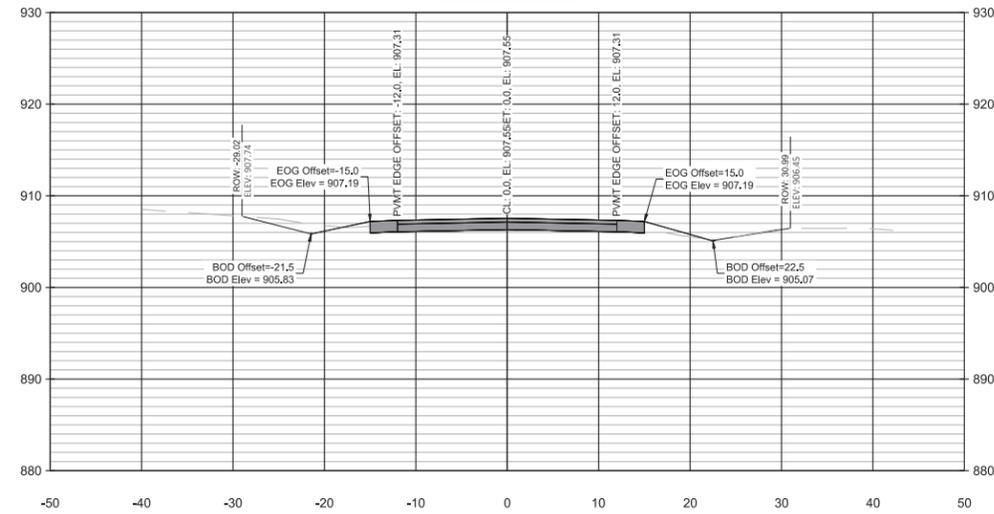
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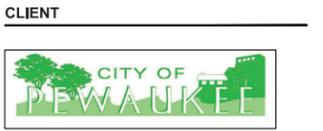


5 "V" +50



6 "V" +00





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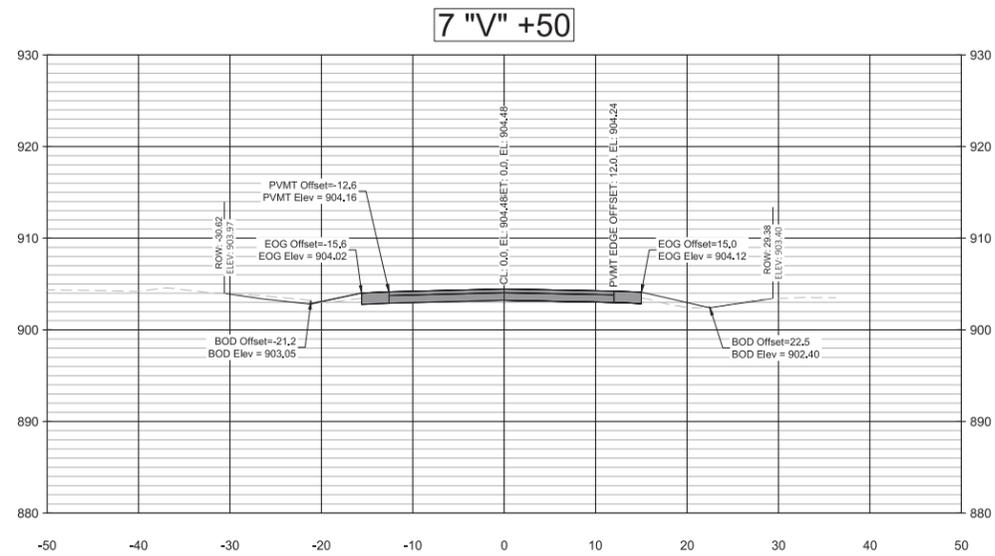
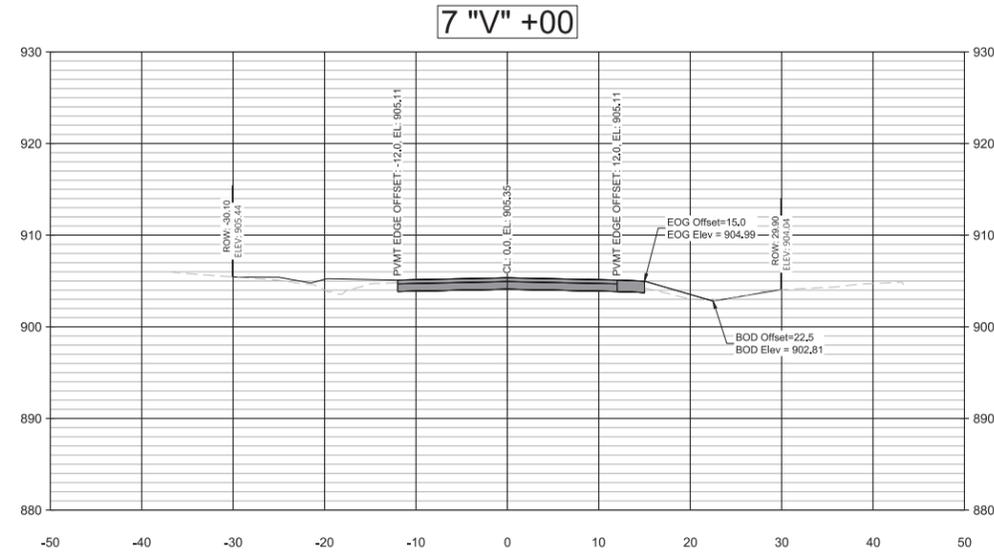
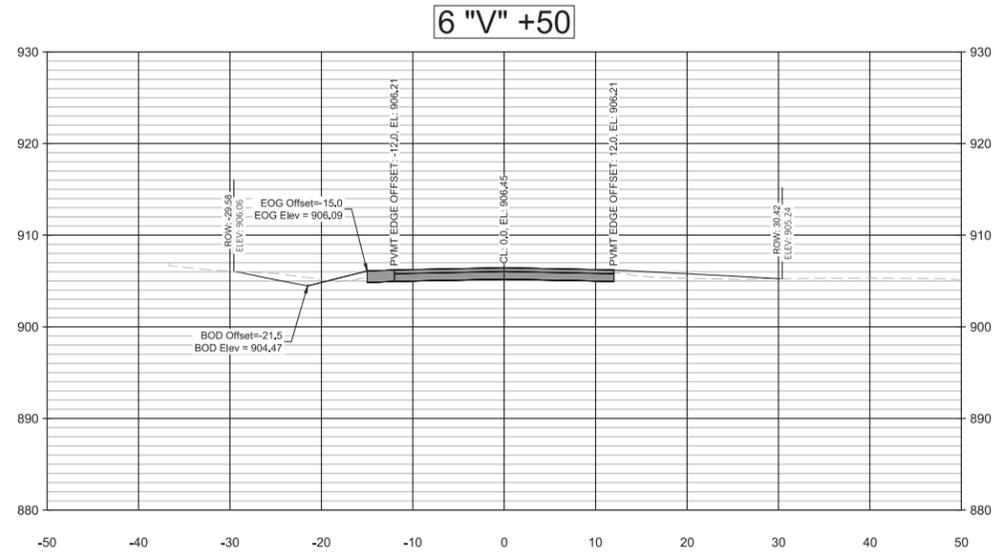
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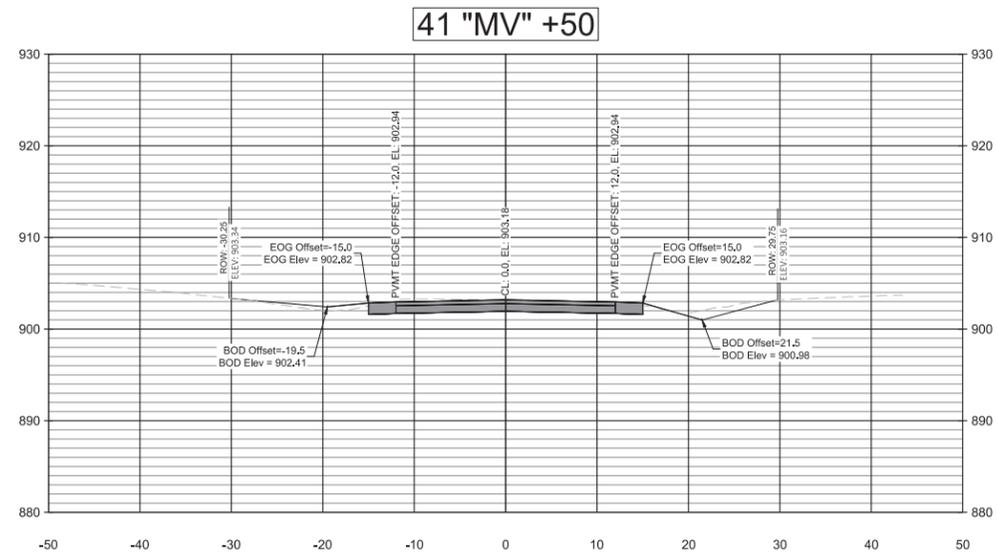
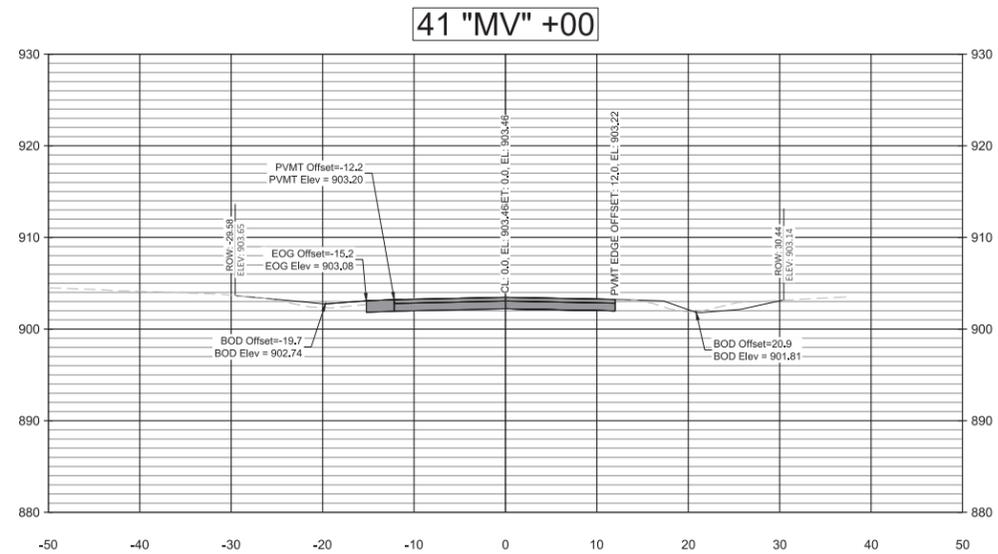
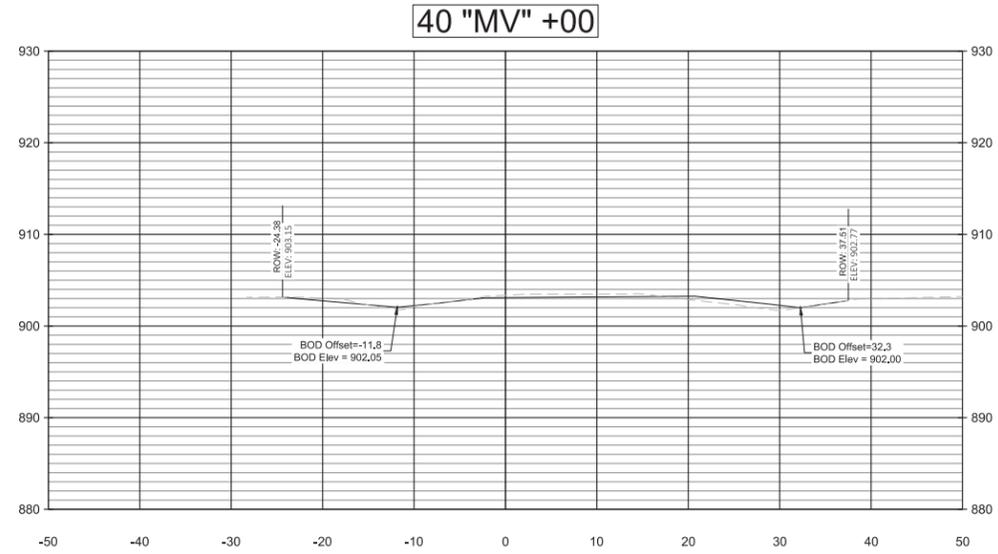
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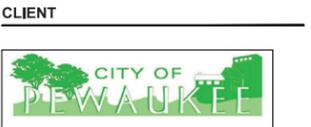
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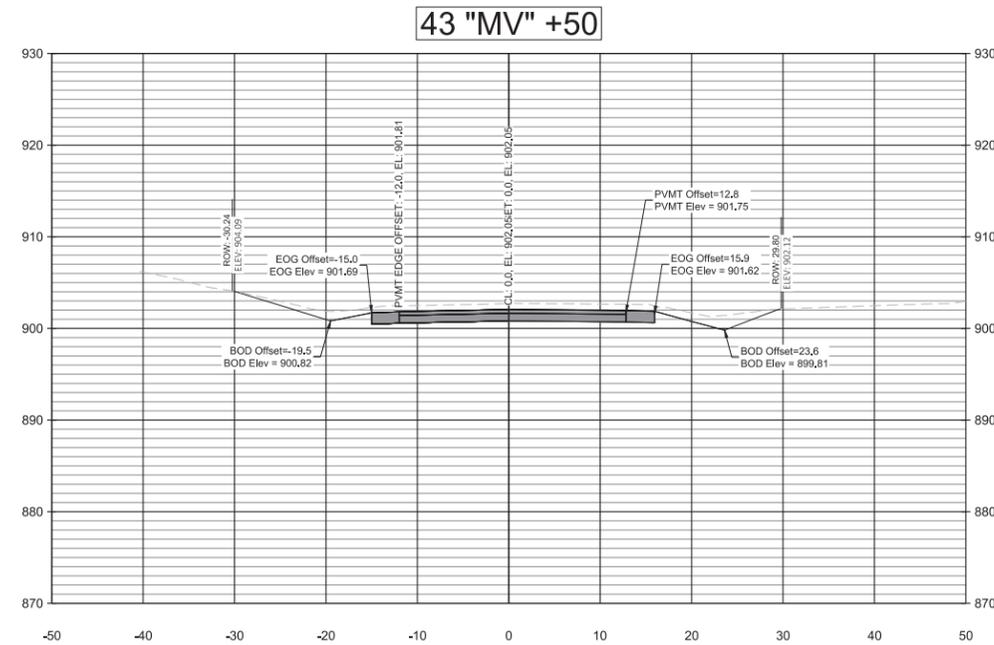
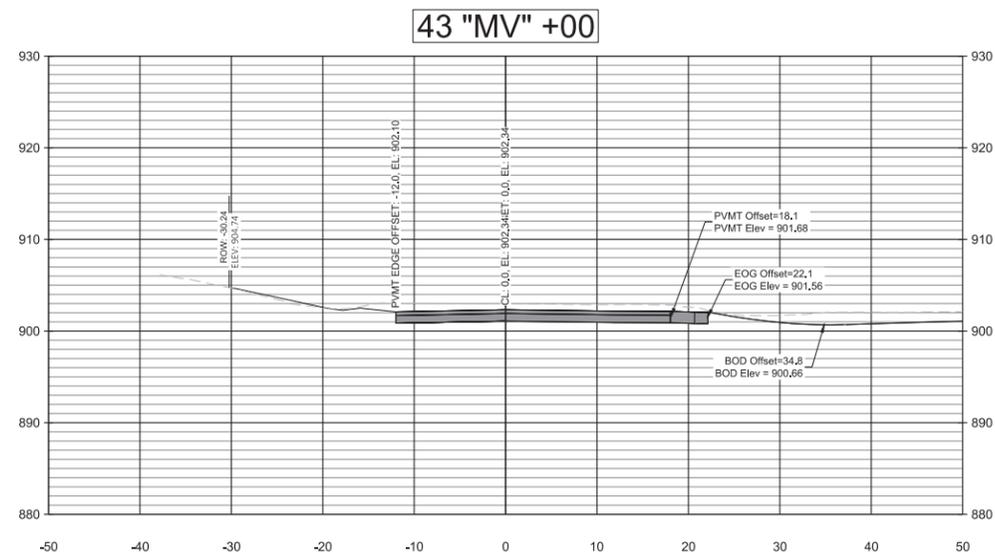
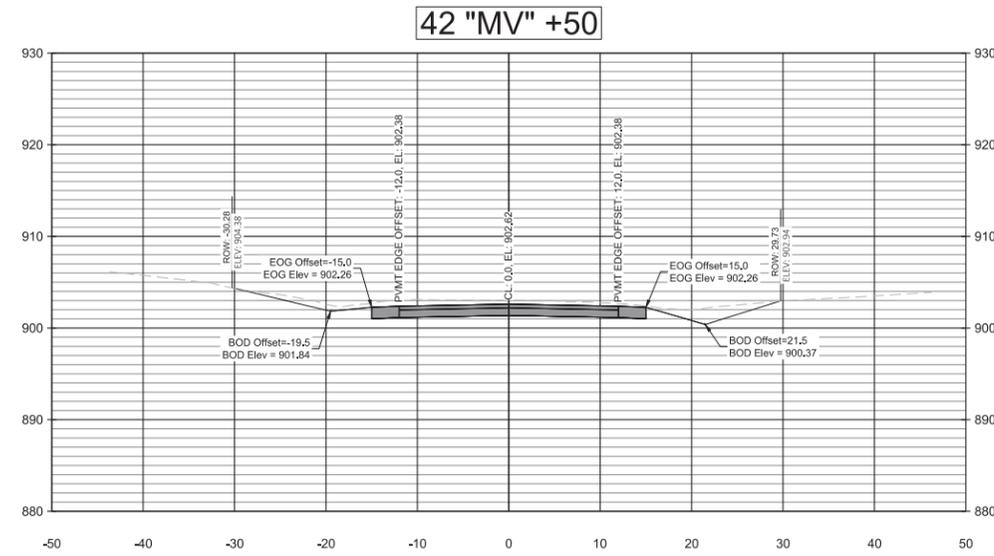
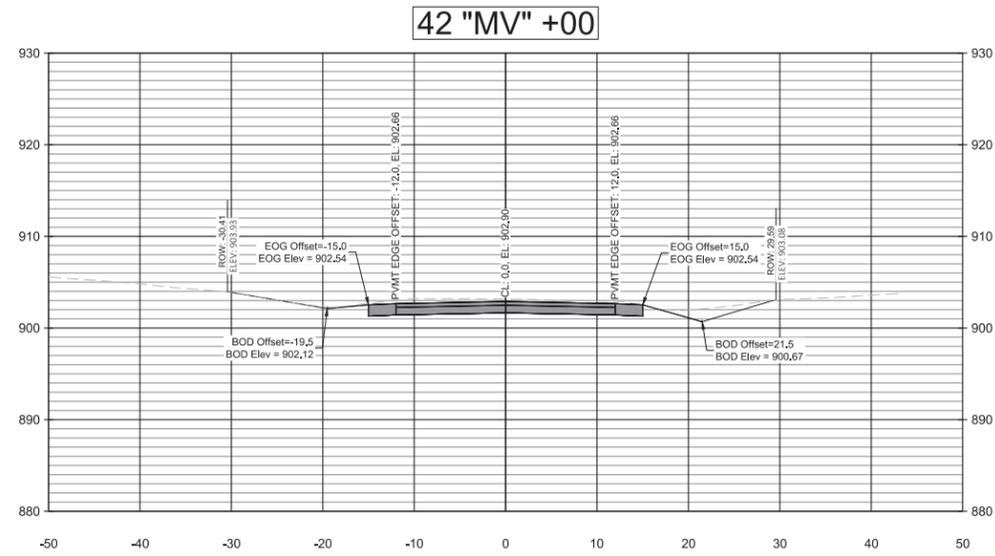
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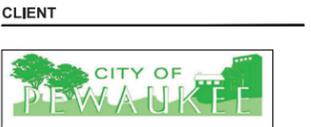
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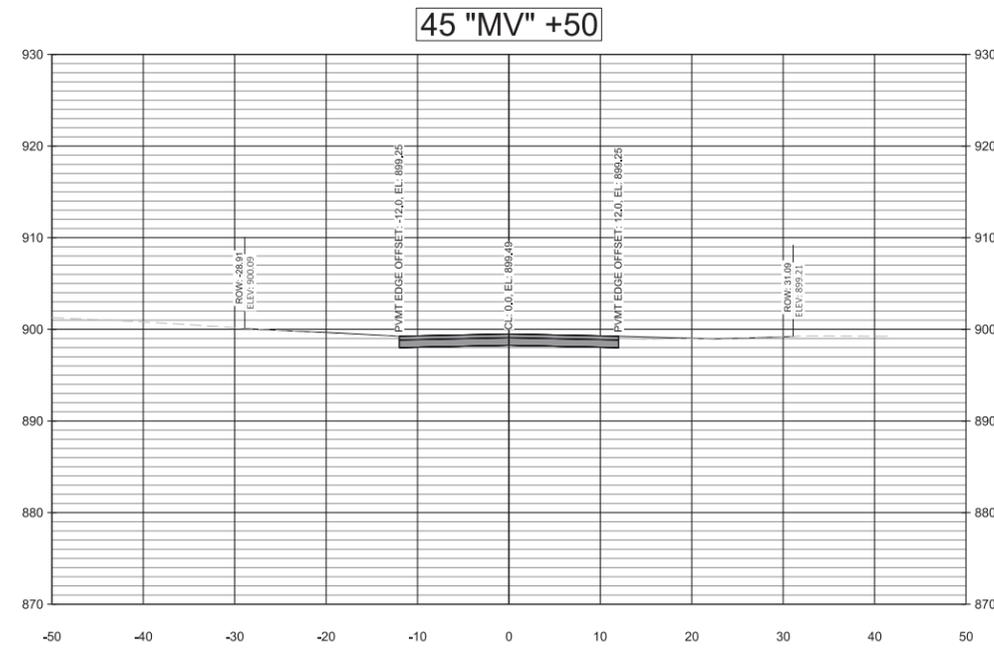
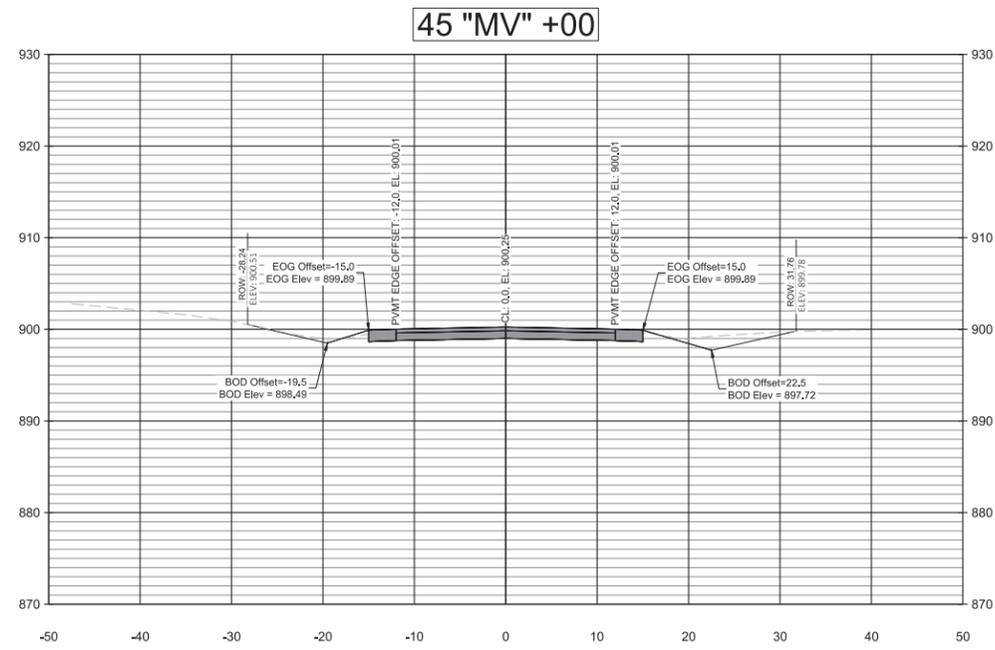
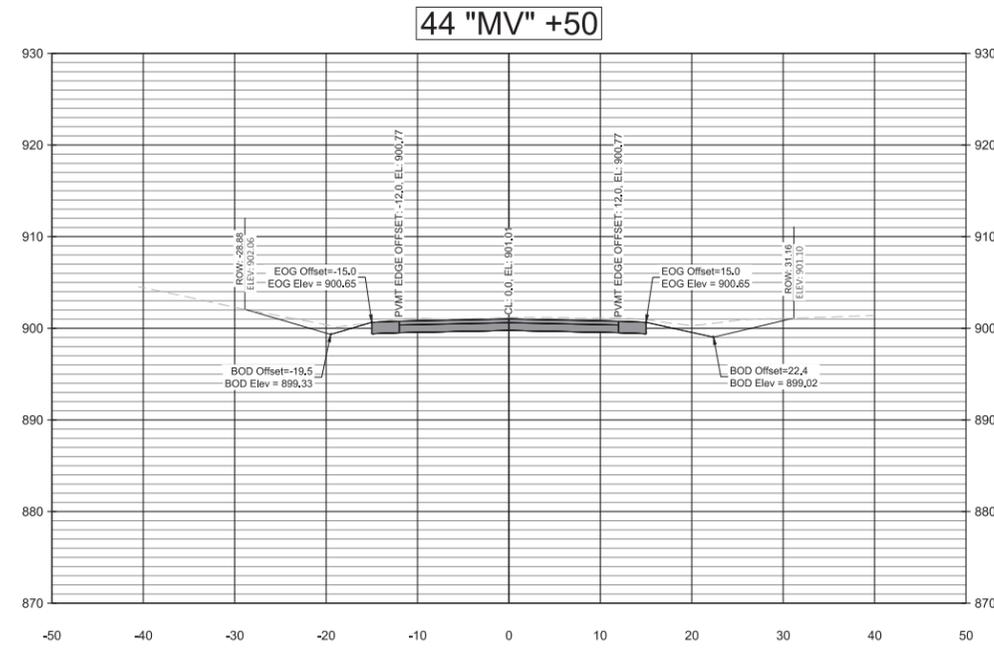
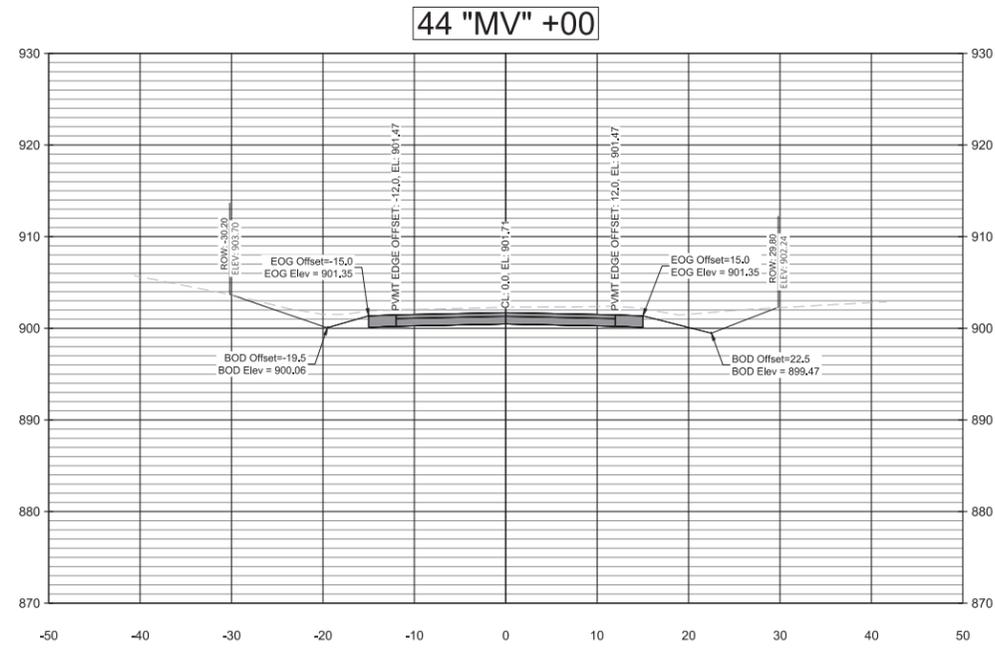
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SHEET TITLE
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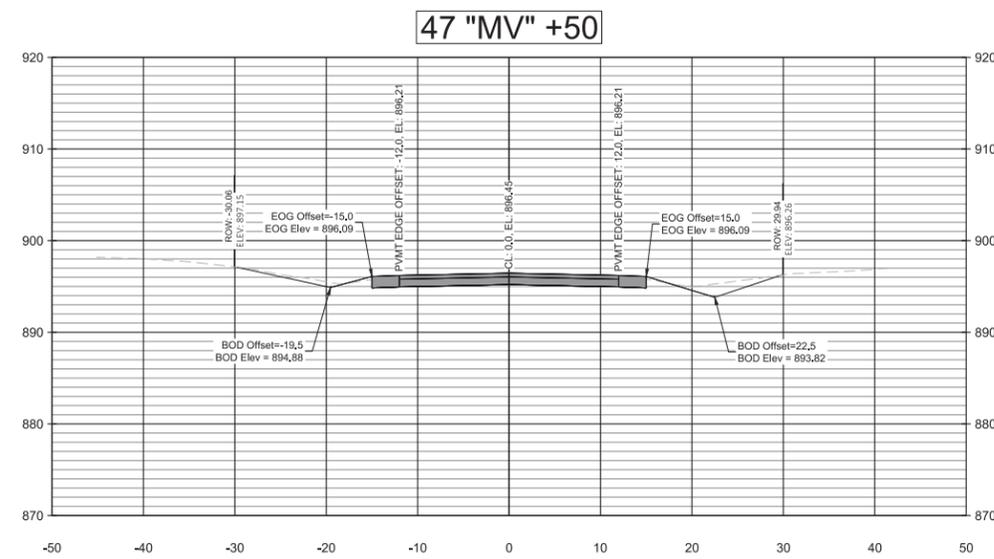
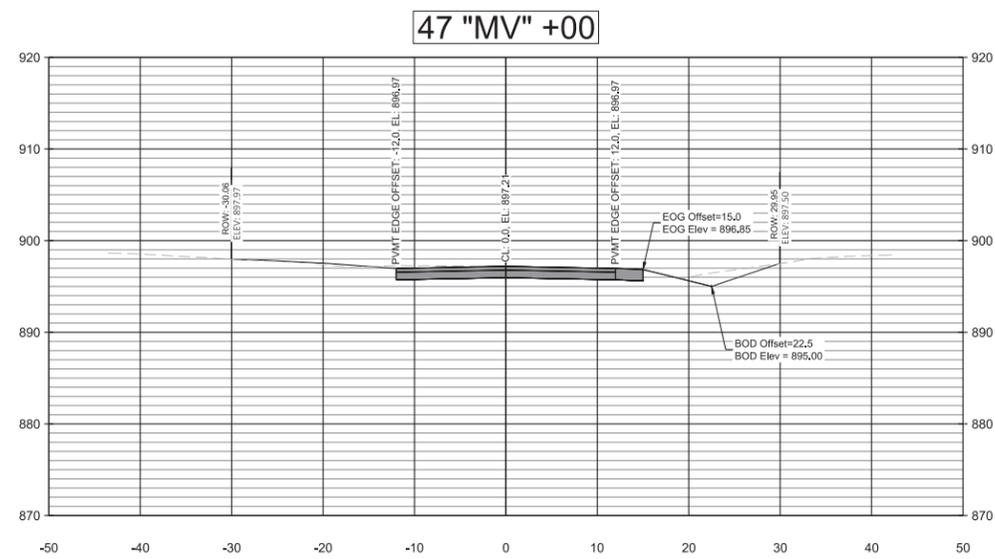
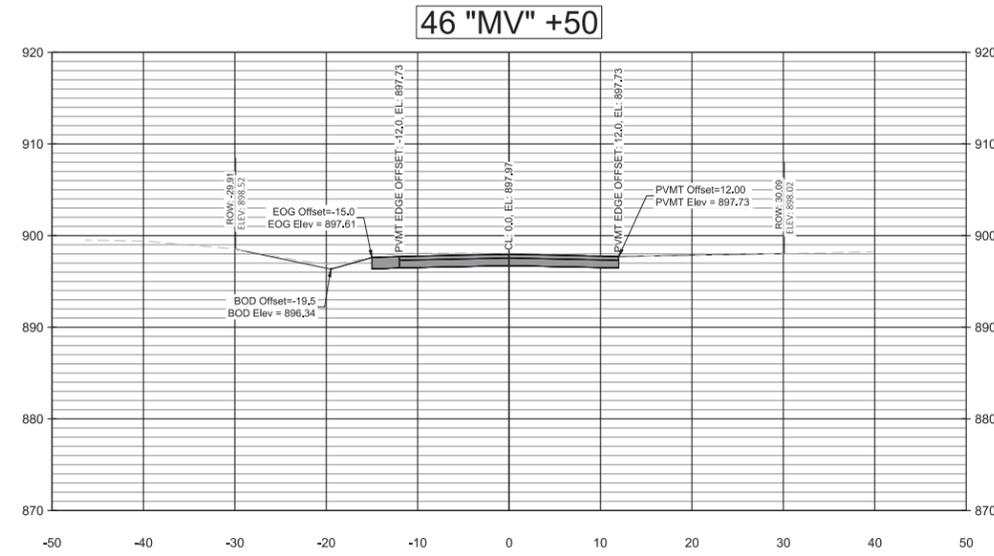
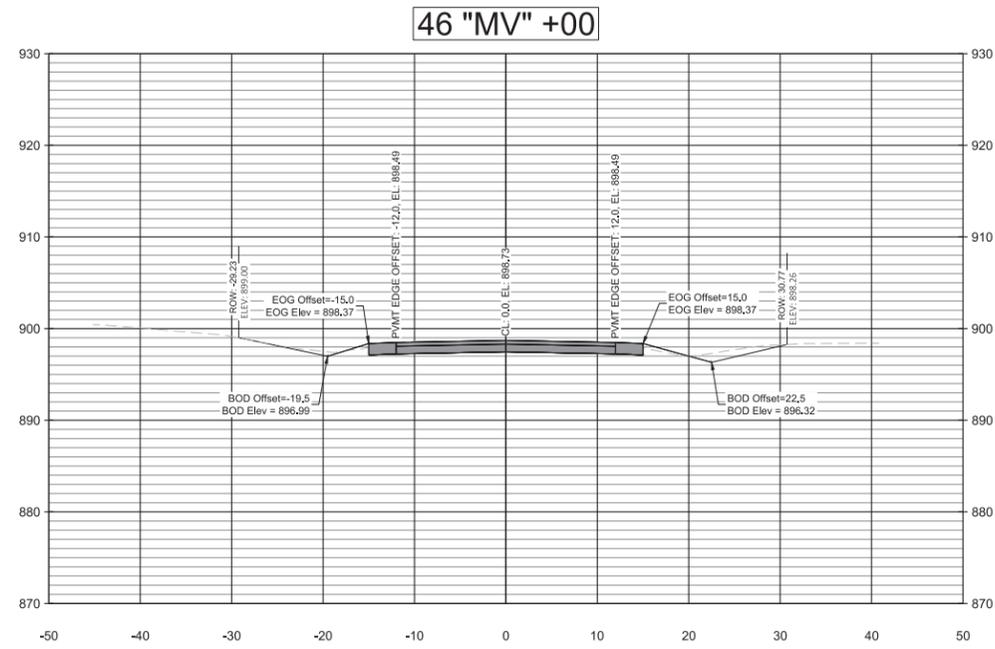
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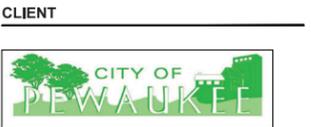
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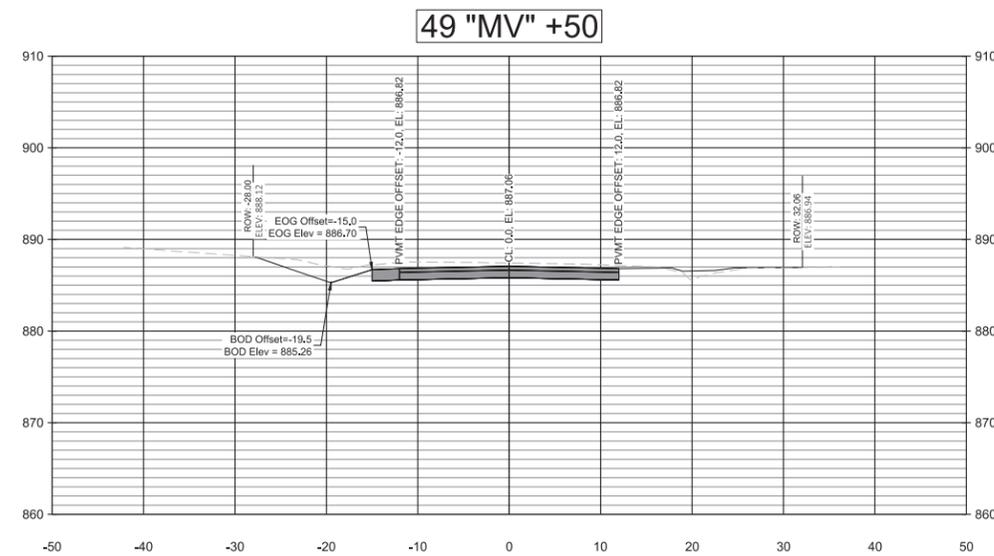
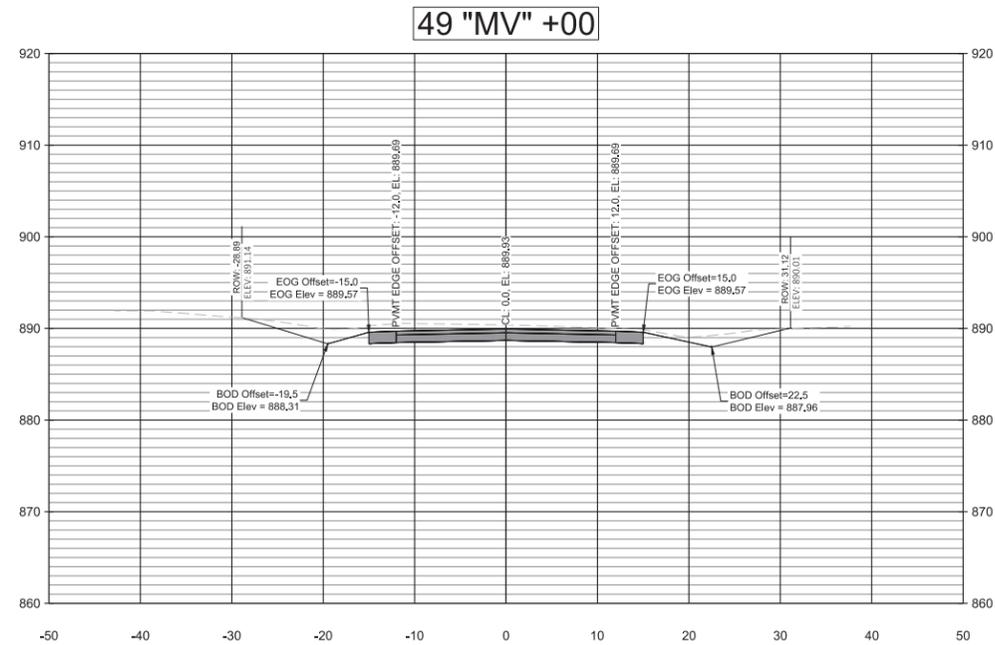
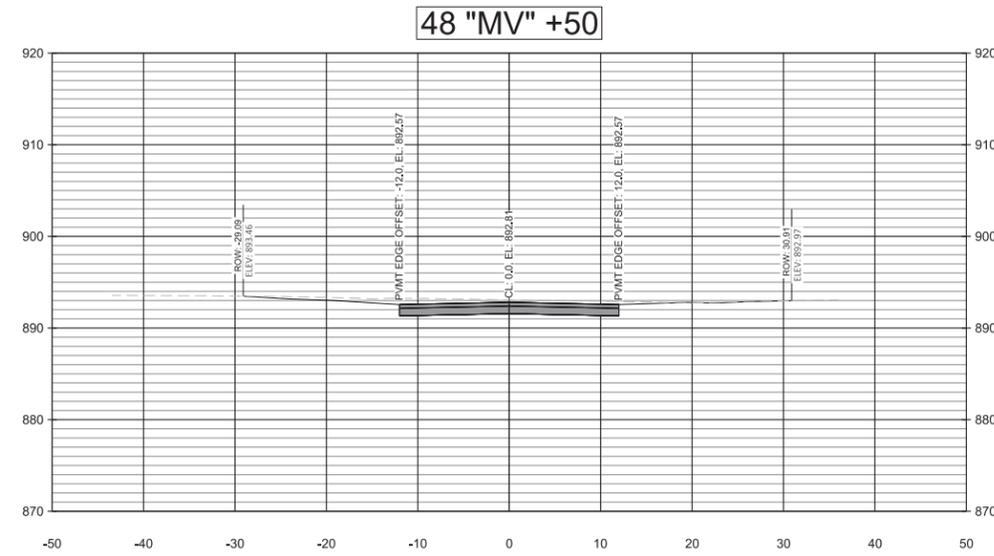
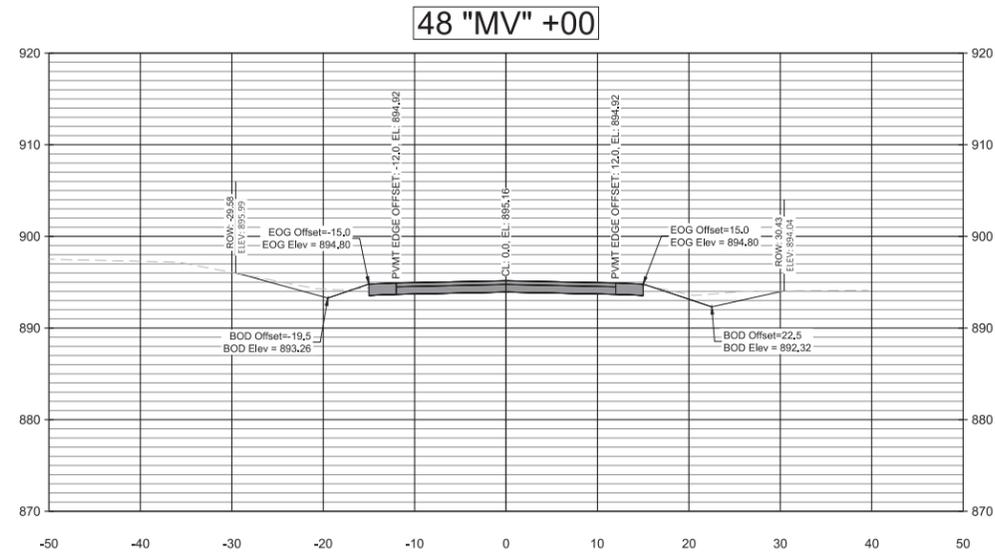
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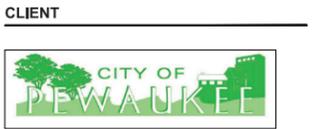
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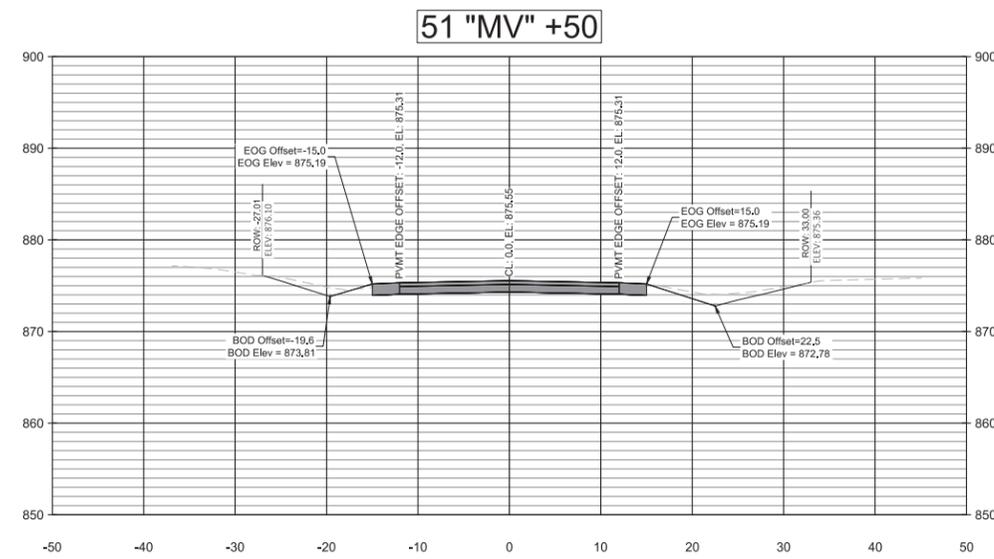
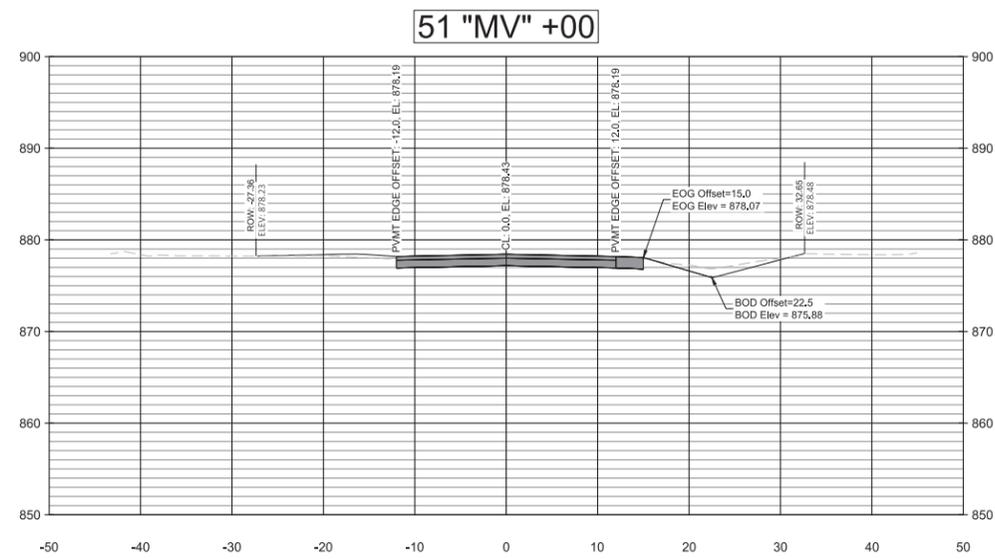
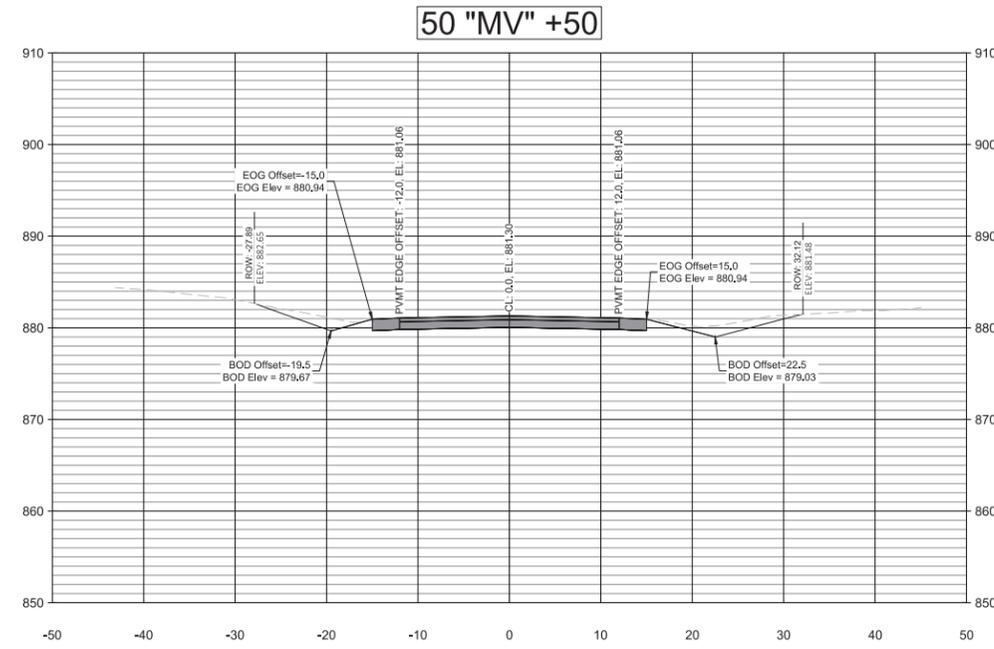
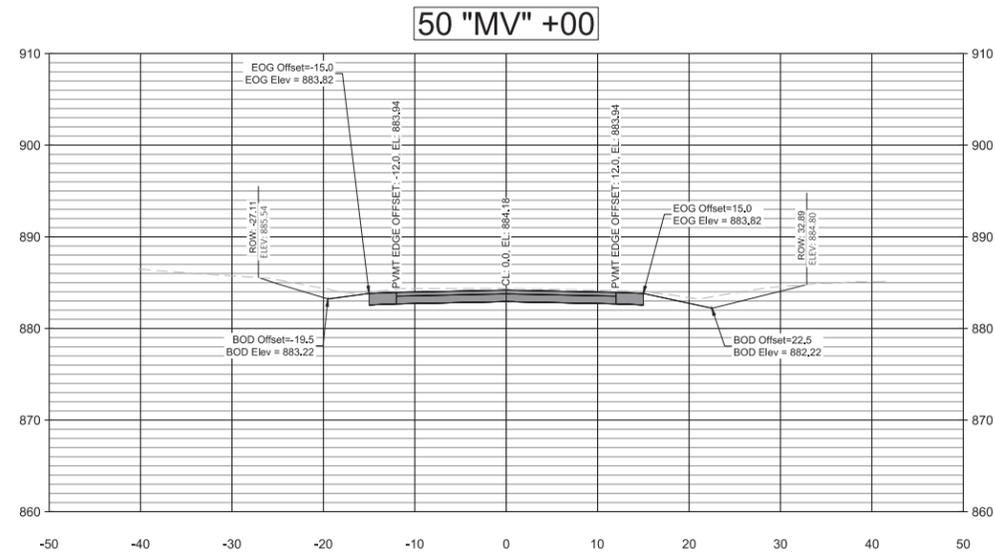
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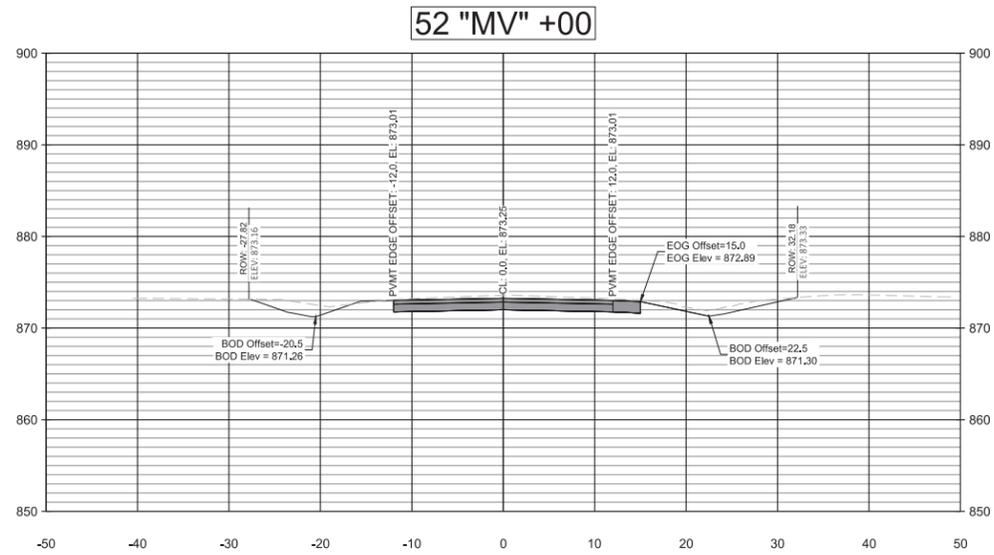
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PROJECT
TAKOMA HILLS STREET RECONSTRUCTION PHASE I

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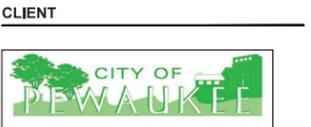
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PROJECT
TAKOMA HILLS STREET RECONSTRUCTION PHASE I



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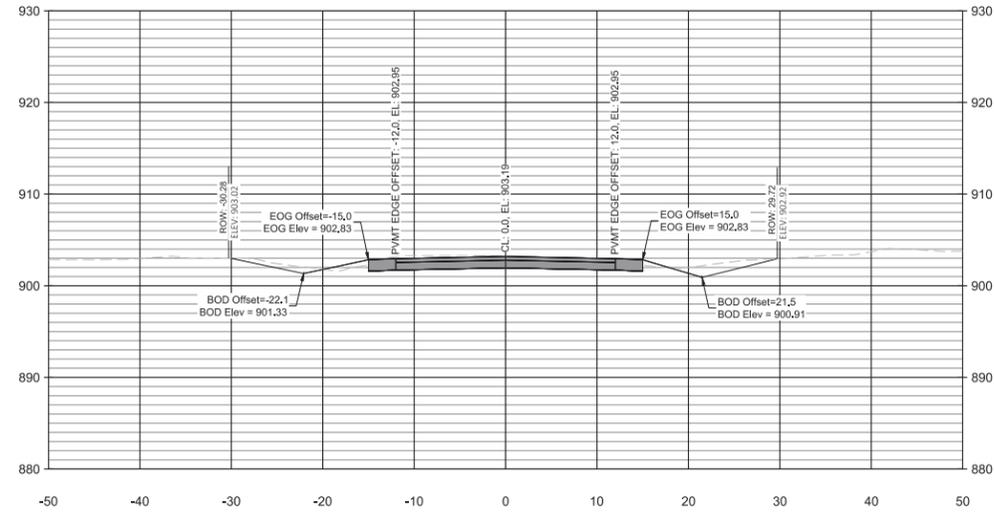
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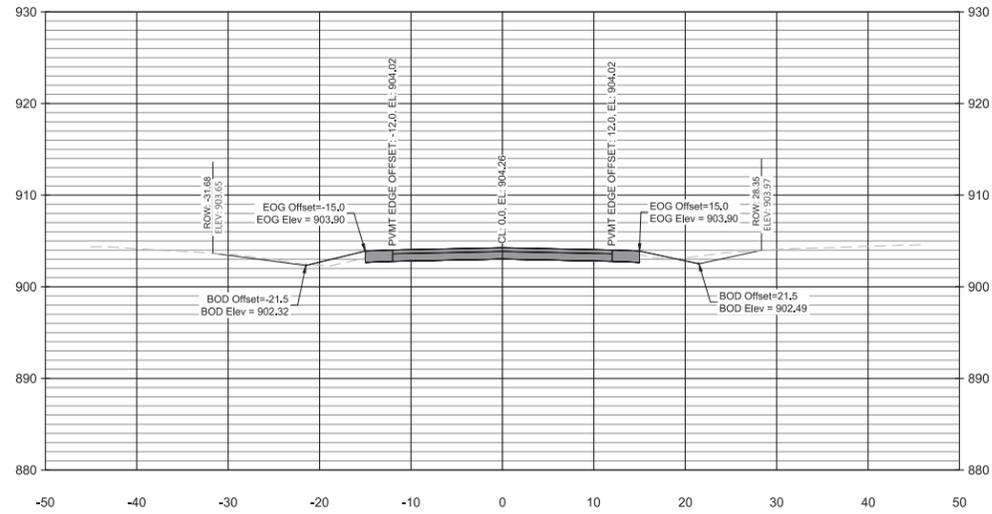
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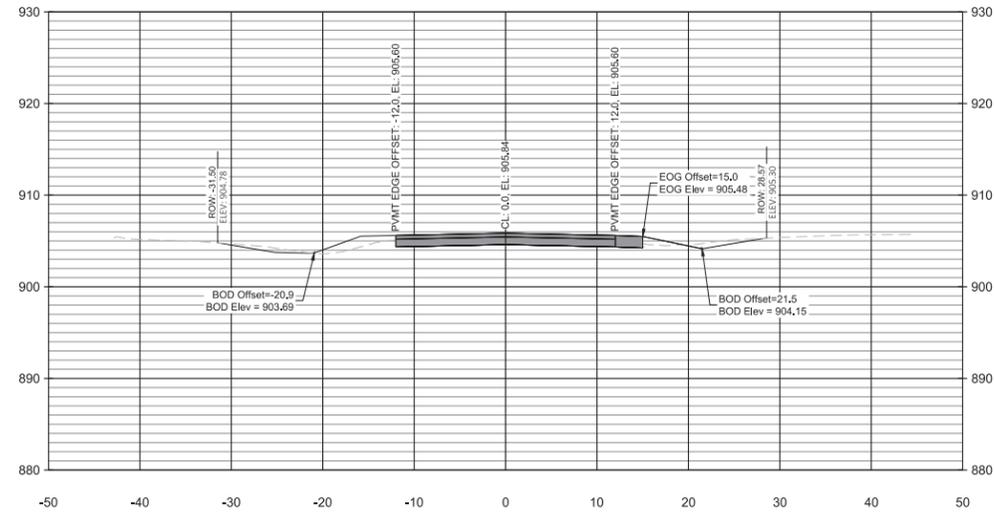
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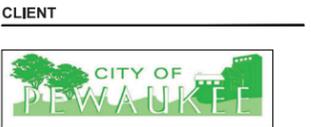


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11 "T" +50





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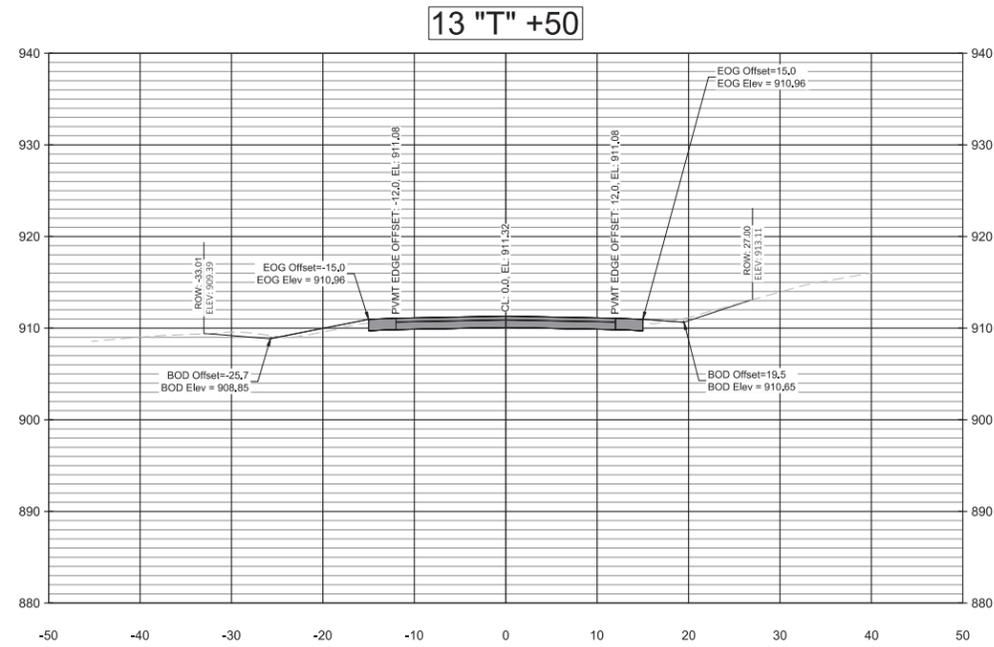
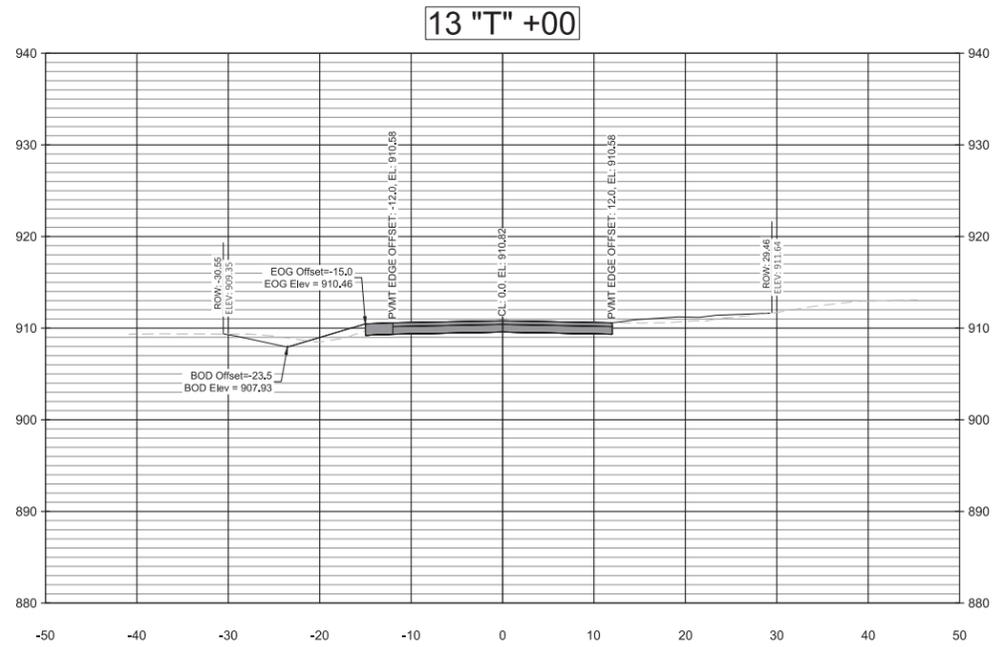
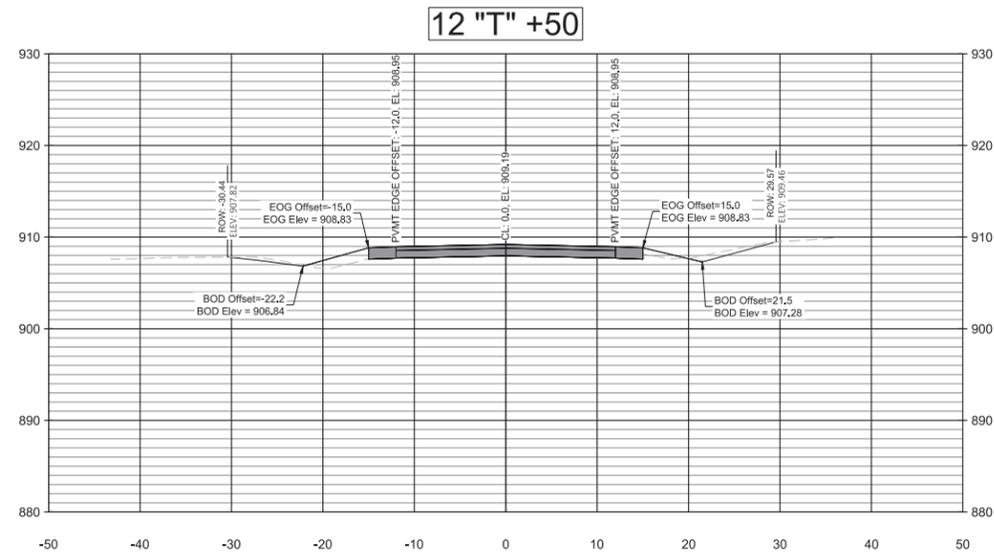
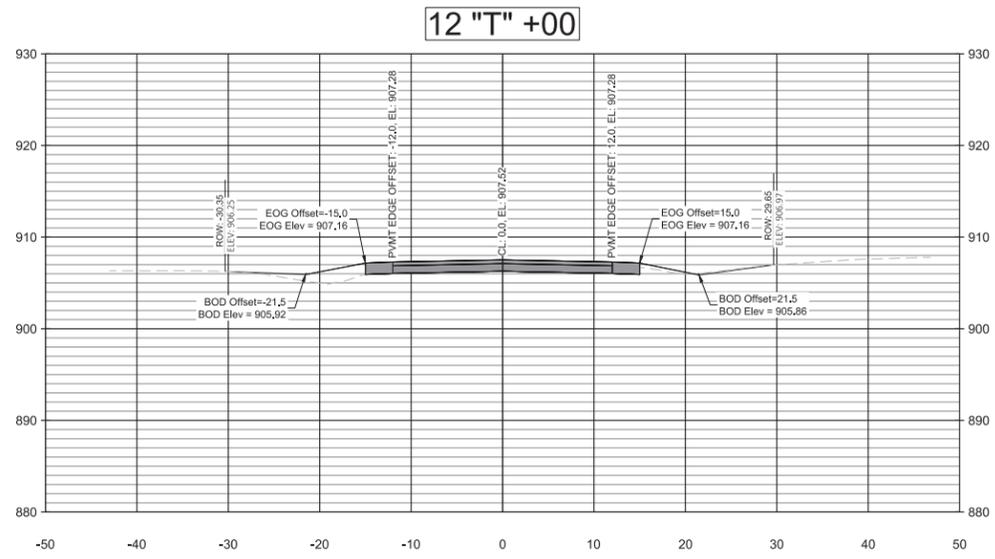
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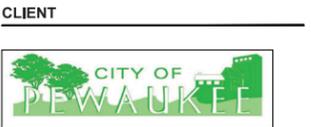
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SHEET NUMBER
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PROJECT
TAKOMA HILLS STREET RECONSTRUCTION PHASE I



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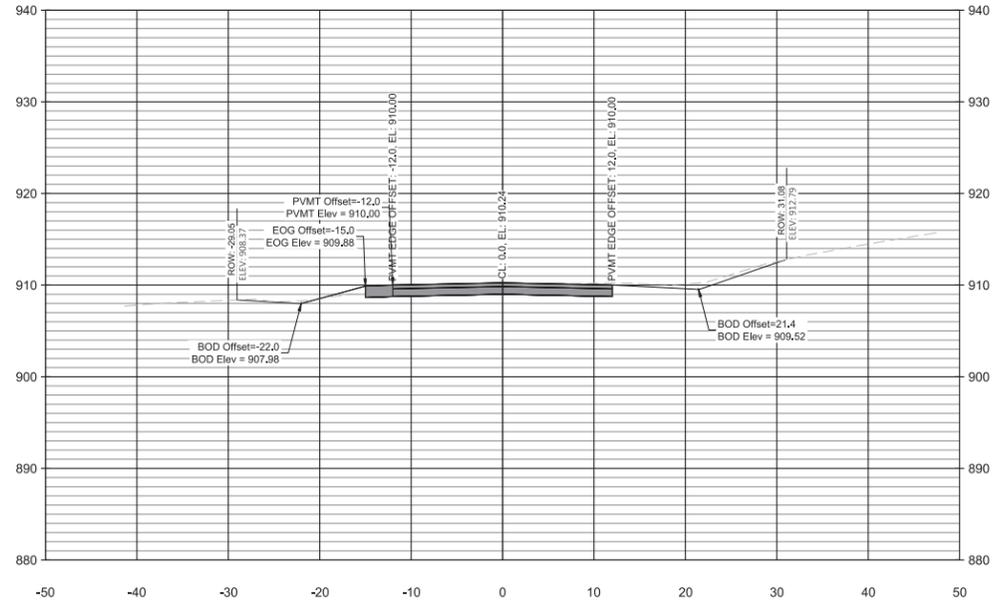
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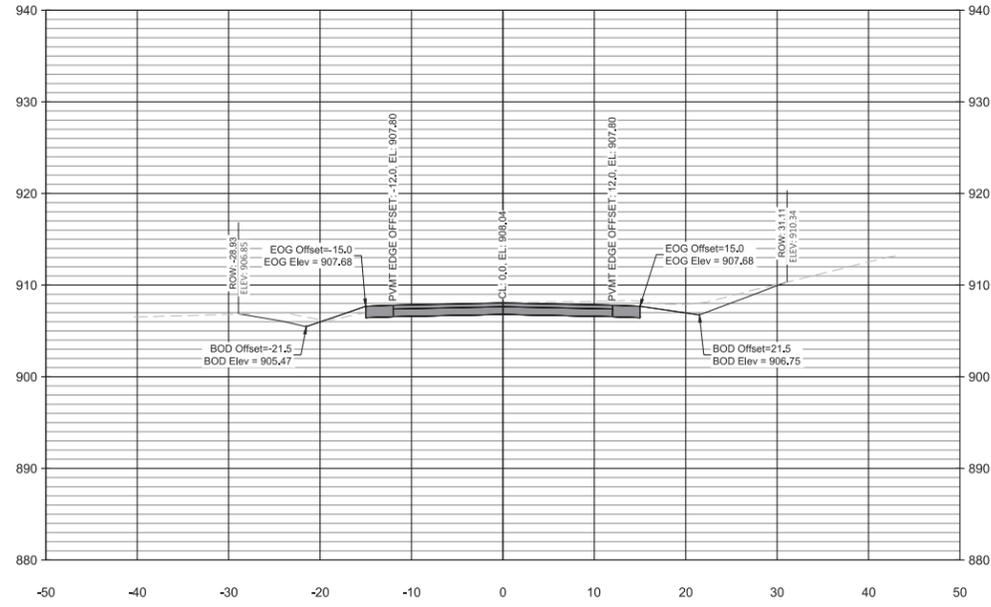
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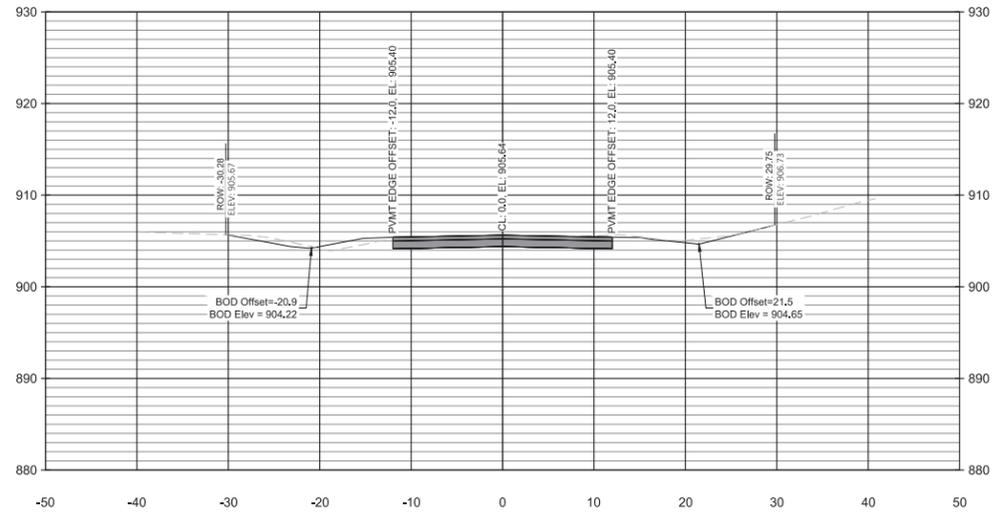
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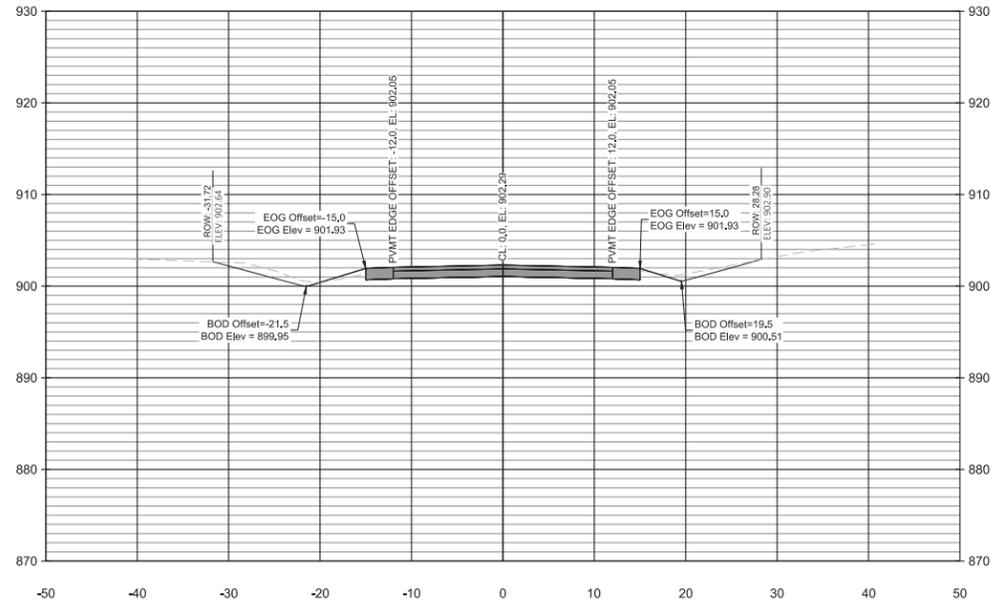
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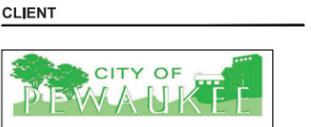


15 "T" +00



15 "T" +50





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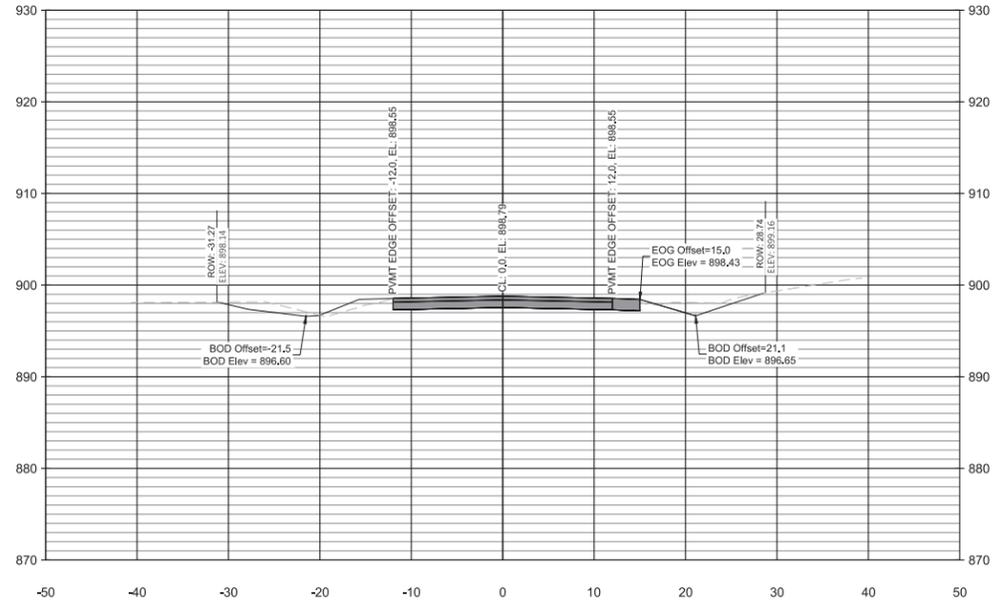
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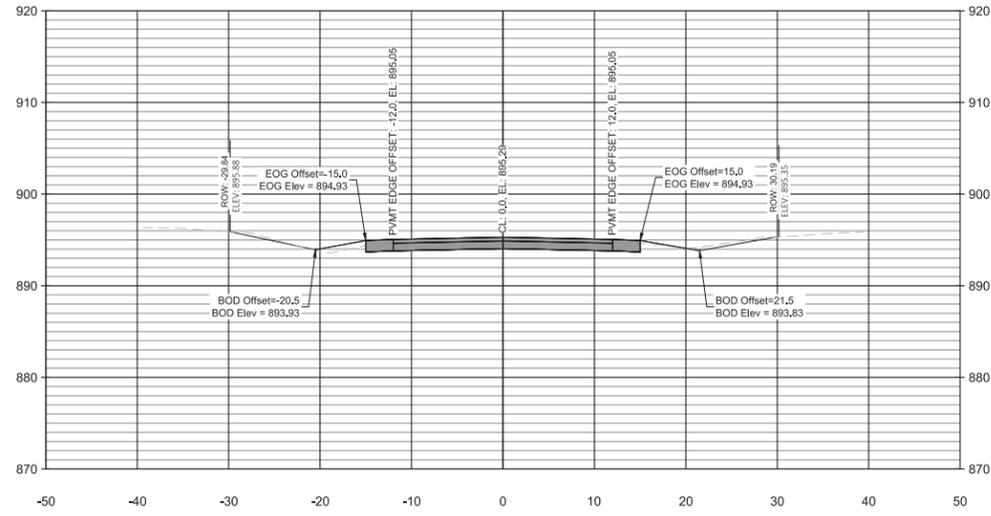
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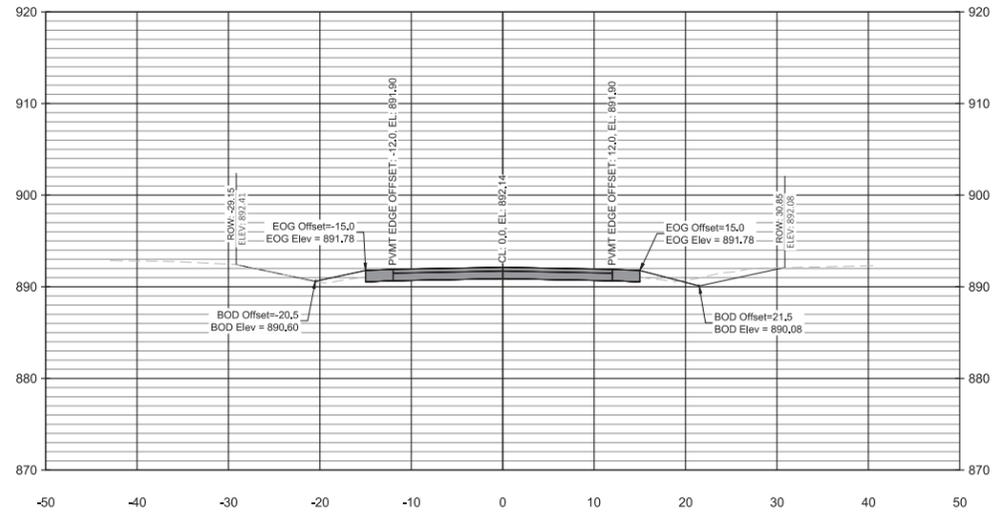
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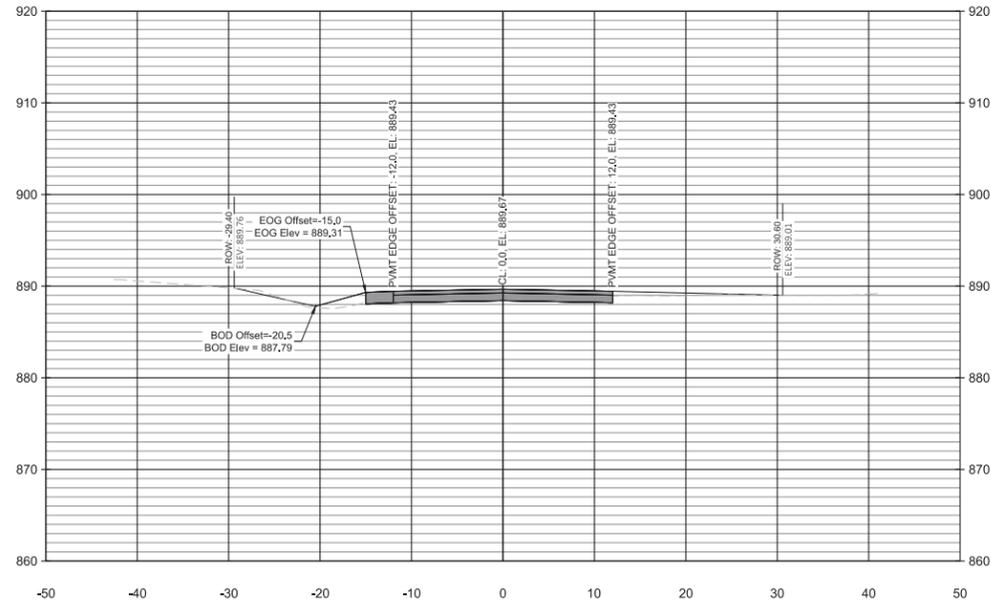
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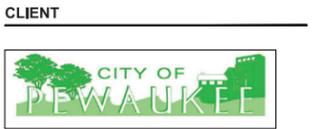


17 "T" +00



17 "T" +50





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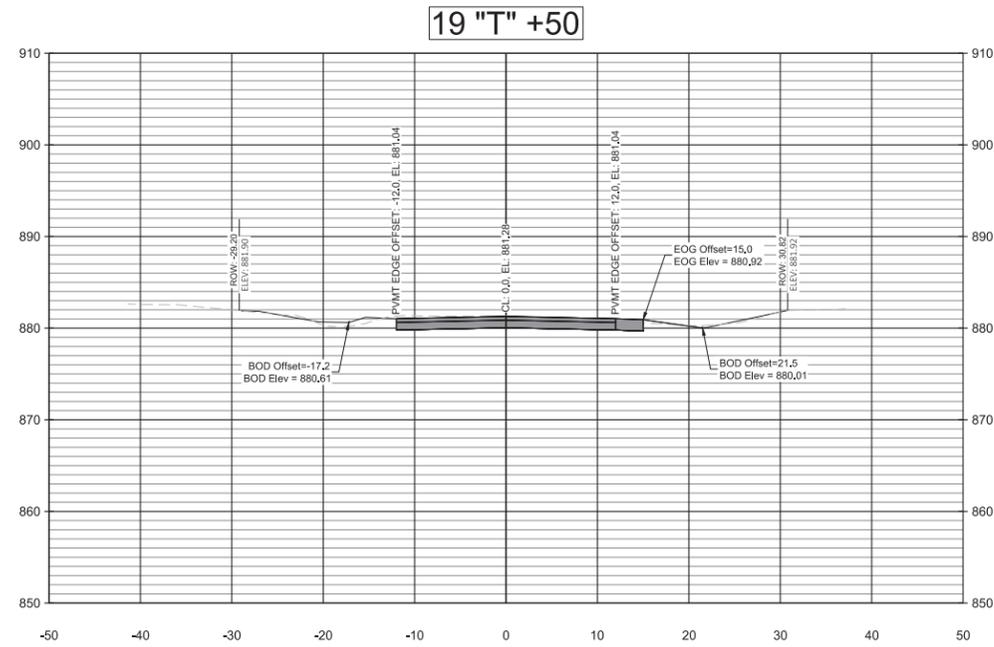
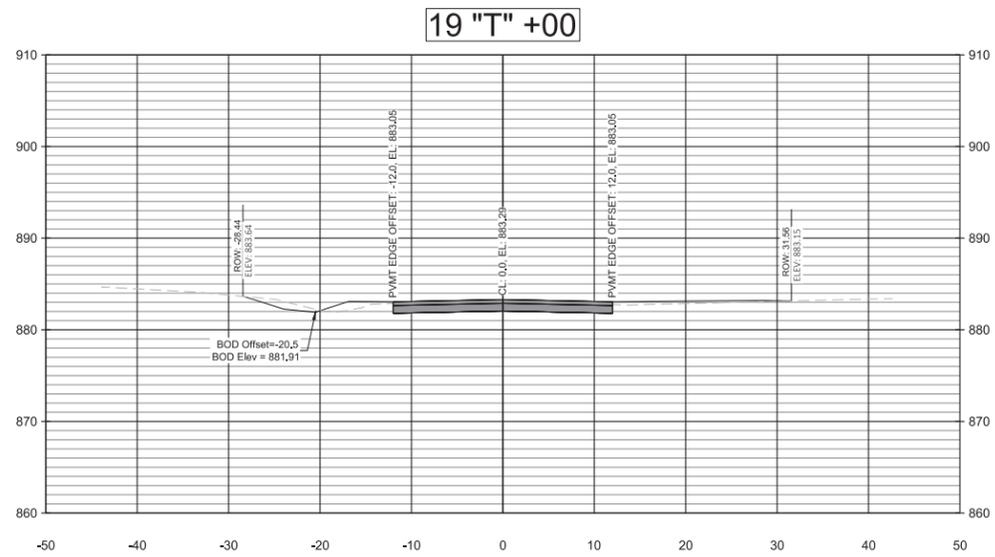
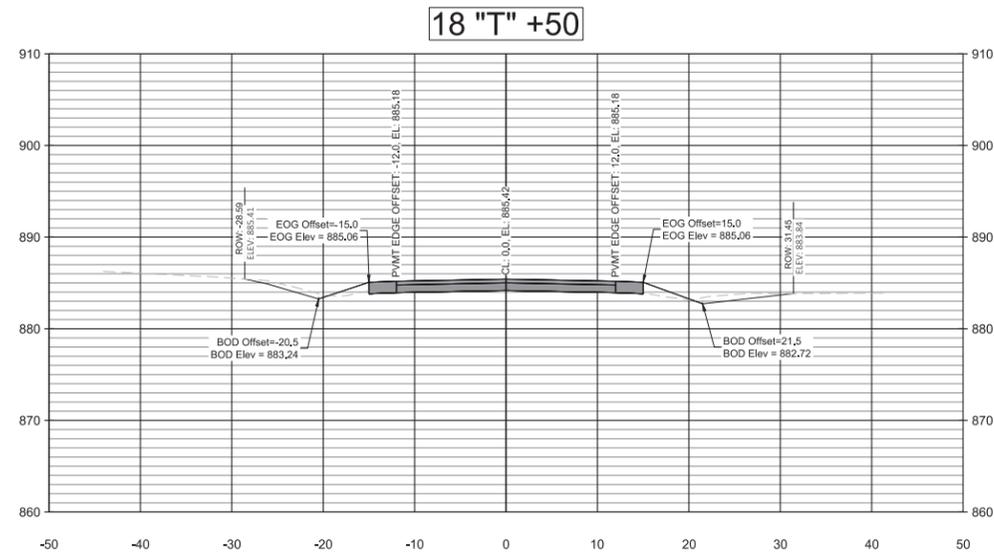
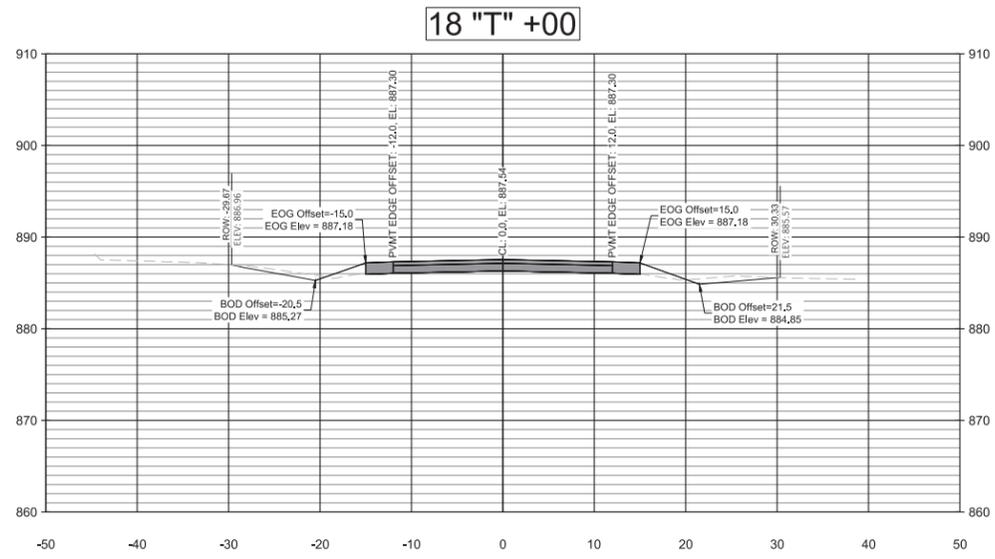
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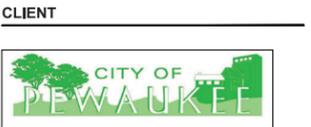
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SHEET TITLE
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SHEET NUMBER
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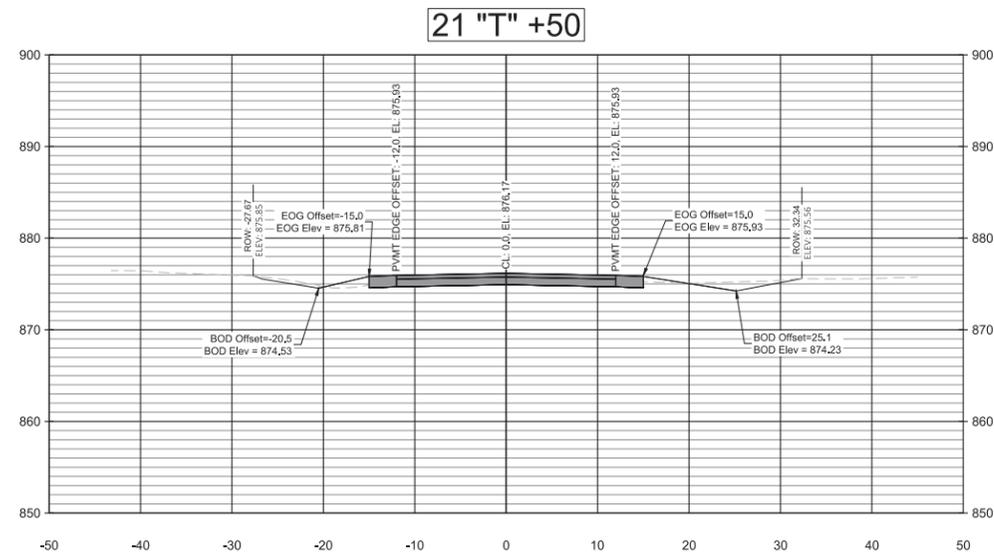
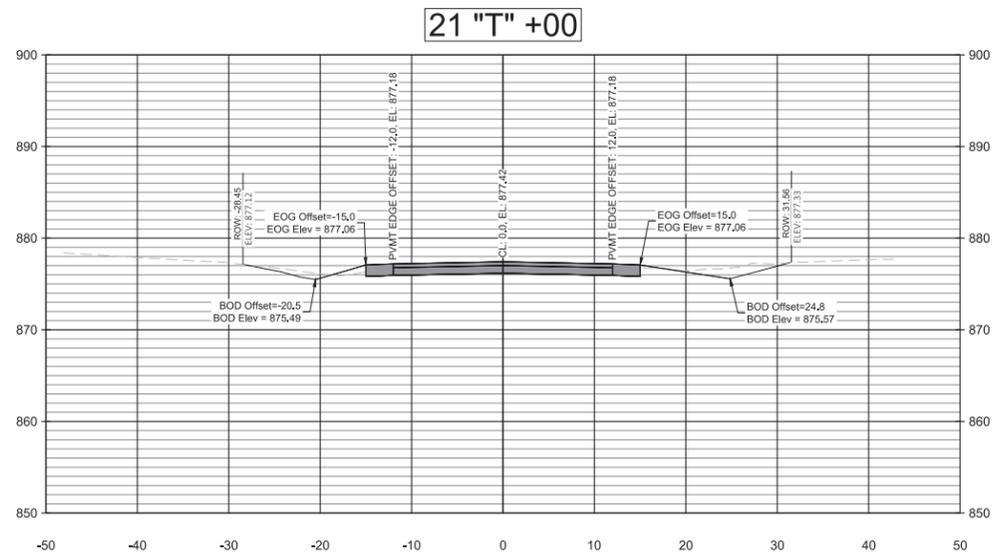
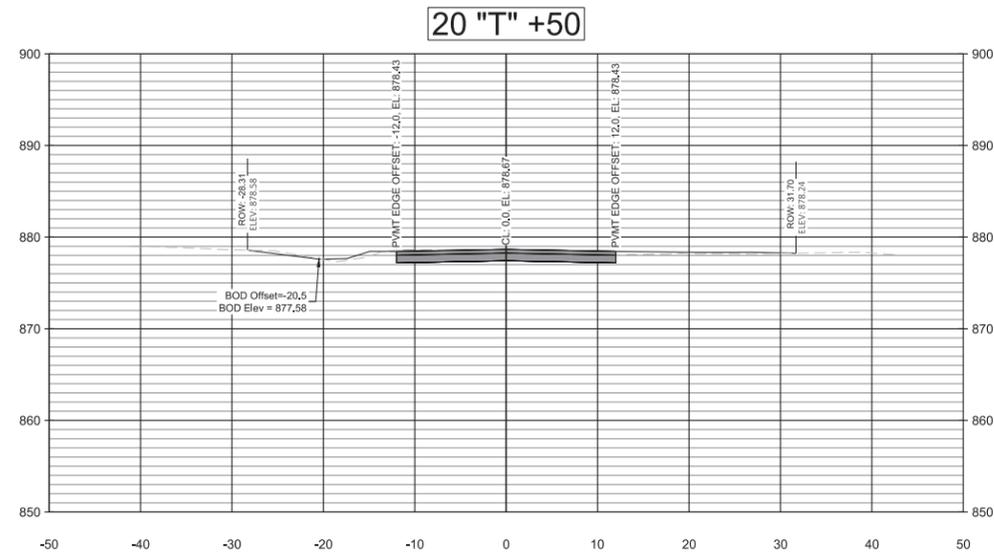
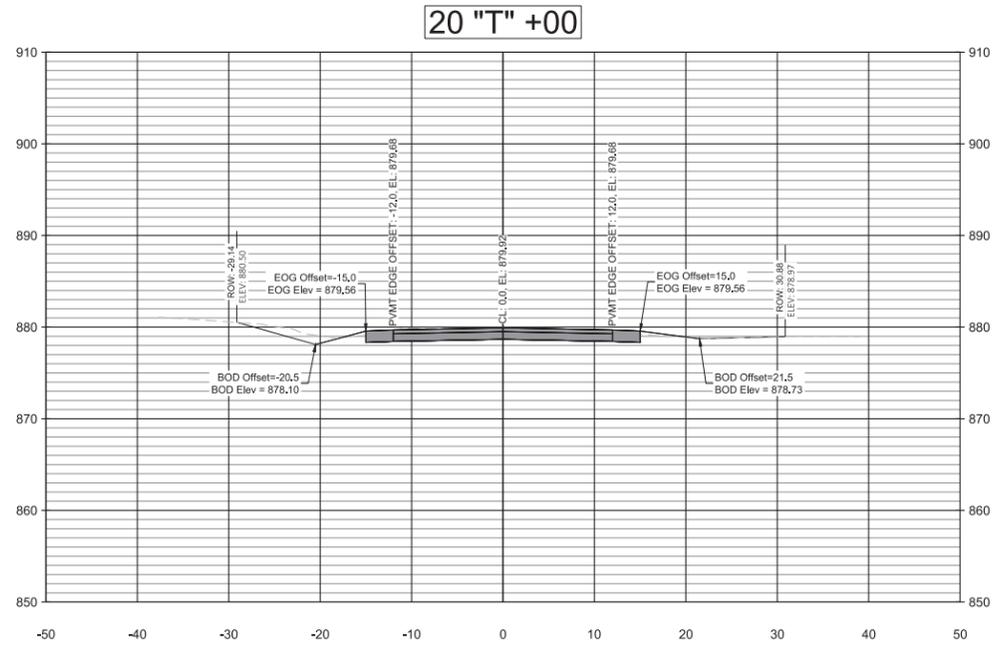
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SHEET NUMBER
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PROJECT
TAKOMA HILLS STREET RECONSTRUCTION PHASE I

CLIENT



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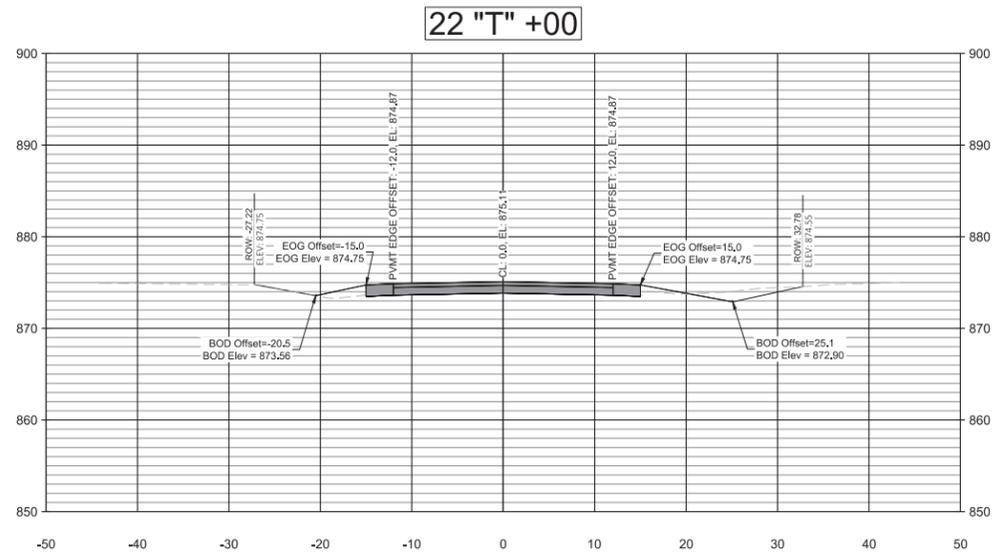
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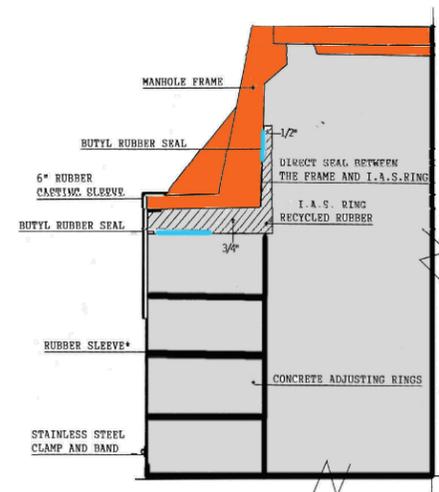
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Internal/External Adaptor Seal Detail Specification



All sanitary manholes shall be provided with an Internal/External Adaptor Seal with a high grade EPDM rubber sleeve having a minimum of 60 mils, to seal the outside of the chimney from the manhole frame down to the cone. It shall have a 3/4" rubber ring that the external sleeve is adhered to and a 1/2" vertical lip that seals to the inside of the casting using butyl mastic. A 304 Stainless Steel band will be used to seal the bottom of the sleeve to the cone section of the manhole. The I/E.A.Seal shall be installed per Adaptor Inc. installation instructions.

A SANITARY MANHOLE INTERNAL/EXTERNAL SEAL
43 NOT TO SCALE

Installation Procedures

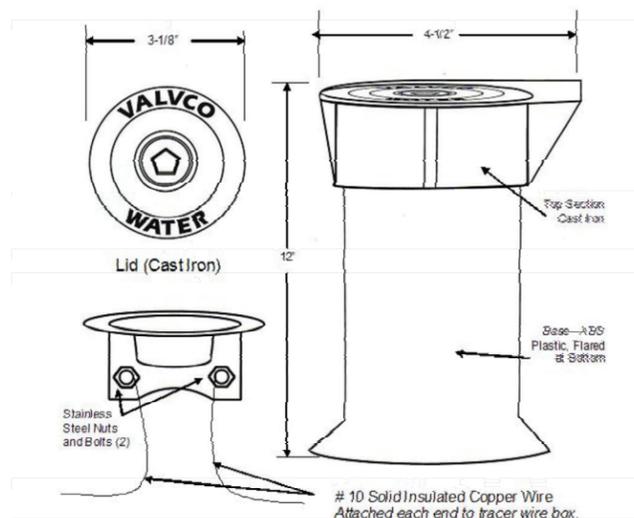


NOTE: Allow 3/4" for the I/E.A.Seal plus the height of the manhole frame for the final adjustment.
EXAMPLE: If the frame is 10" Plus 3/4" for the seal, figure 10 3/4" from finish grade to the top adjusting ring.

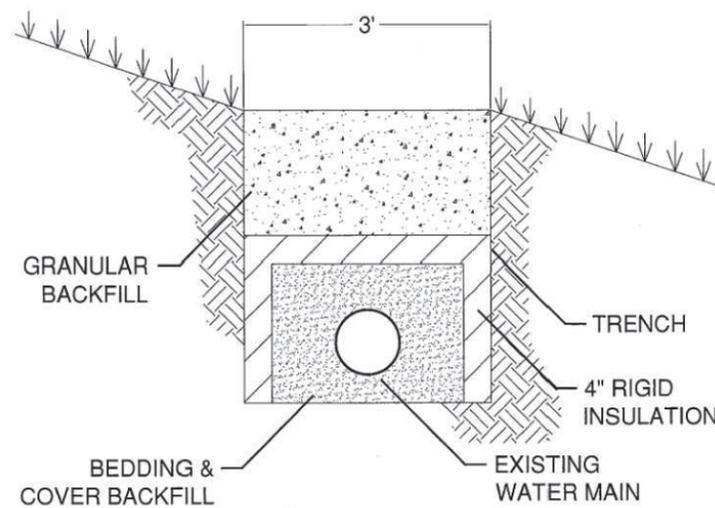
Valvco Tracer Wire Access Box Specification and Submittal

Tracer wire shall be terminated at each end in a flush mount access box. Access Box shall have a cast iron lid that can be locked and opened with a standard pentagon head key wrench. Tracer wires shall be stripped and attached to stainless steel screws mounted to the underside of the lid. Sufficient slack shall be left in wire length so cover can be lifted with wire intact. Tracer wire access box shall be located directly in front of fire hydrants or where indicated on drawings and be set to grade. Tracer wire access box shall be of domestic manufacture and be equal to Valvco TWAB.

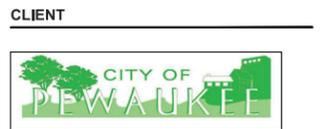
Contact: Fischer, Harris & Associates for information 800-224-7579.



C TRACER WIRE ACCESS BOX
43 NOT TO SCALE



B WATER MAIN INSULATION DETAIL
43 NOT TO SCALE



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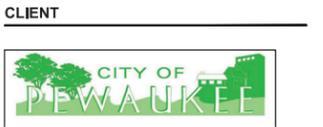
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60339891
SHEET TITLE
DETAILS 1

SHEET NUMBER
43



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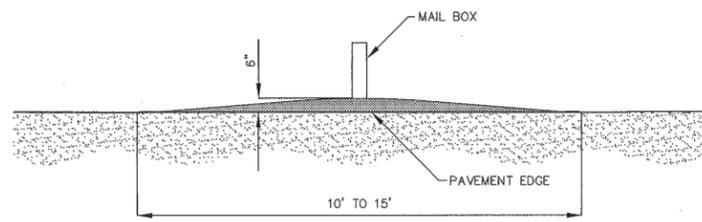
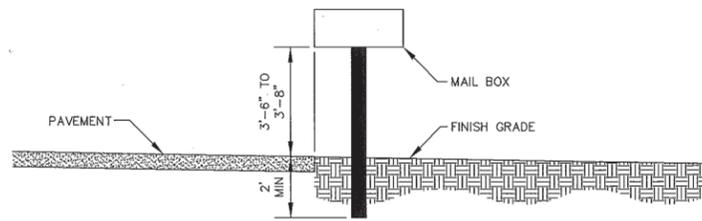
KEY PLAN

PROJECT NUMBER
 60339891

SHEET TITLE
 DETAILS 2

SHEET NUMBER
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Figure S



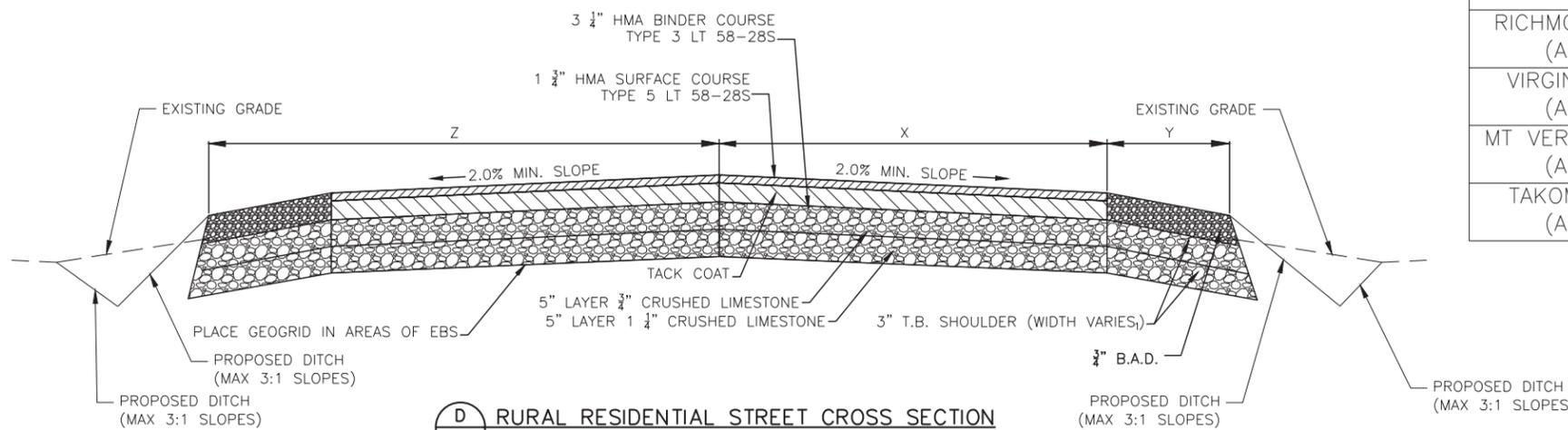
TYPICAL MAIL BOX PLACEMENT DETAIL

CITY OF PEWAUKEE
 SCALE: 1"=3' SEPTEMBER 2016 DRAWN BY: JJF

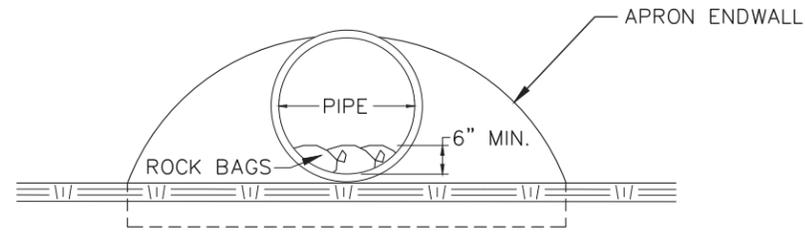
A MAIL BOX PLACEMENT DETAIL
 44 NOT TO SCALE

1. ROADWAY DIMENSIONS BY STATION

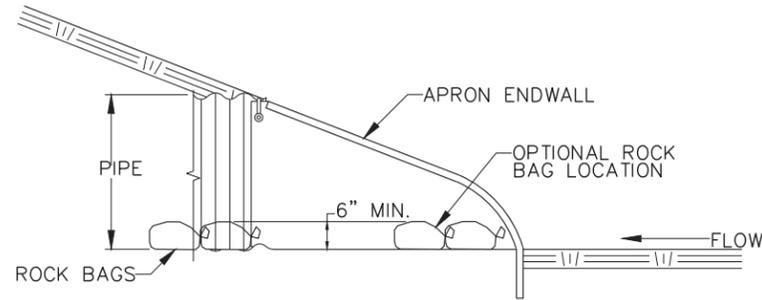
| STA. | LANE WIDTH (X) | SHOULDER WIDTH (Y) | COMBINED (Z) |
|--------------------|----------------|--------------------|--------------|
| RICHMOND CT (ALL) | 12 FT | 1 FT | 13 FT |
| VIRGINIA DR (ALL) | 12 FT | 3 FT | 15 FT |
| MT VERNON DR (ALL) | 12 FT | 3 FT | 15 FT |
| TAKOMA DR (ALL) | 12 FT | 3 FT | 15 FT |



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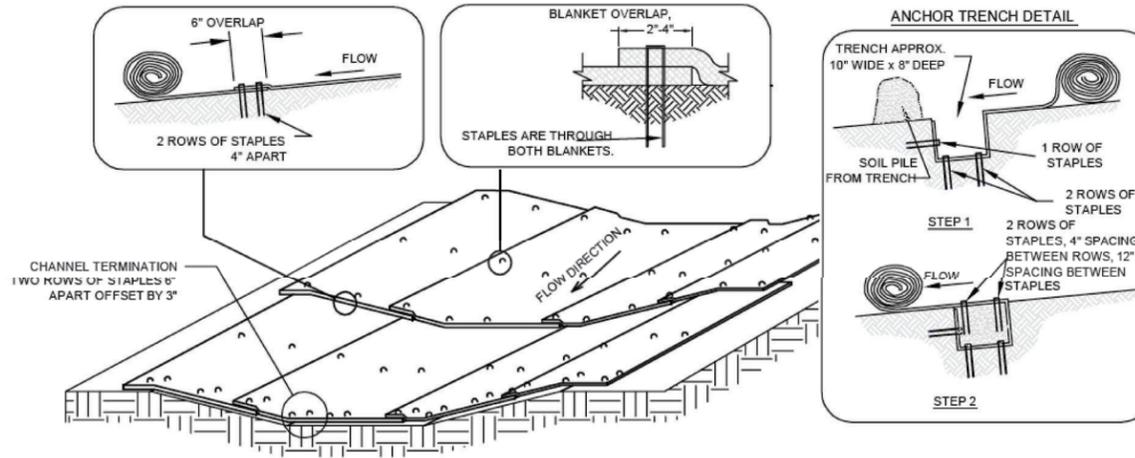
END VIEW



SIDE VIEW

**CULVERT PIPE CHECK
(INSTALL ON INLET END ONLY)**

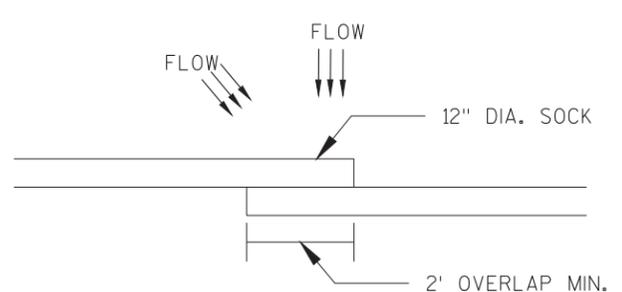
NTS A 45



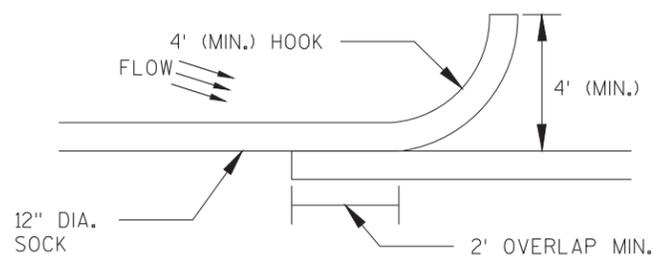
NOTES:

1. INSTALL AND ANCHOR EROSION MAT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
2. AT TIME OF INSTALLATION, RETAIN MATERIAL LABELS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS UNTIL THE SITE HAS BEEN STABILIZED.
3. INSTALL EROSION CONTROL MAT AFTER TOPSOIL IS PLACED AND SEEDING IS COMPLETE.
4. INSTALL TURF REINFORCEMENT MAT, IF REQUIRED, IN CONJUNCTION WITH PLACEMENT OF TOPSOIL, FOLLOWED BY EROSION CONTROL MAT INSTALLATION.
5. INSTALL EROSION MAT SO THAT IT BEARS COMPLETELY ON THE SOIL SURFACE.
6. USE STAPLES THAT ARE AT LEAST 6 INCHES LONG.

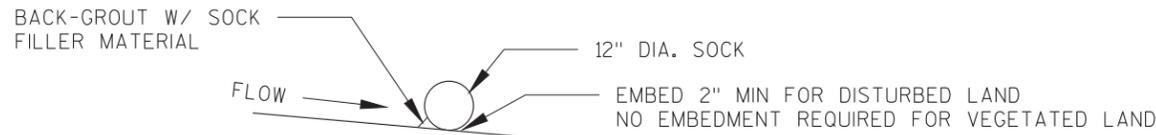
B **CLASS I CHANNEL EROSION MAT**
45 NOT TO SCALE



PLAN VIEW - FLOW 45 TO 90 DEG. TO EROSION LOG

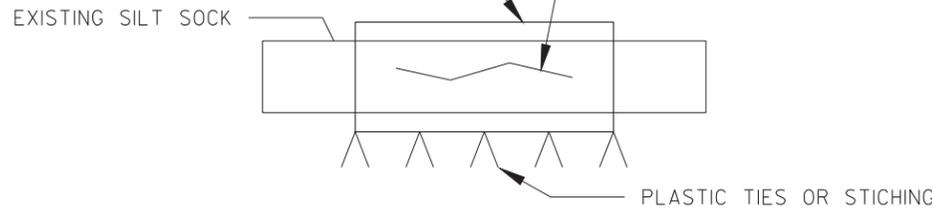


PLAN VIEW - FLOW LESS THAN 45 DEG. TO EROSION LOG



SECTION VIEW

NEW FABRIC WRAPPED AROUND SOCK AND TIED AT DOWNSTREAM SIDE. EXTEND NEW FABRIC A MINIMUM OF 12 INCHES PAST EACH END OF THE TEAR



REPAIR DETAIL - TEAR GREATER THAN 12 INCHES

NOTES:

1. LOG MATERIAL PER WISDOT EROSION CONTROL PRODUCT ACCEPTABILITY LIST, TEMPORARY DITCH CHECKS. LOG FILLER TO BE COMPOST OR WOOD CHIPS (2" MAX.) MEETING WDNR TECHNICAL STANDARD INTERIM MANUFACTURED PERIMETER CONTROL AND SLOPE INTERRUPTION PRODUCTS #1071.
2. WHEN LOG IS USED ON A PAVED SURFACE CONCRETE BLOCKS SHALL BE USED TO SECURE LOG IN PLACE
3. ACCUMULATED SEDIMENT SHALL BE REMOVED FROM BEHIND LOG WHEN IT HAS REACHED A HEIGHT EQUAL TO HALF OF THE LOG HEIGHT.
4. SMALL HOLES OR RIPS LESS THAN 12" LONG MAY BE STITCHED CLOSED USING PLASTIC ZIP TIES. LARGER RIPS SHALL BE FIXED PER THE REPAIR DETAIL. HEAVILY DAMAGED SECTIONS SHALL BE REPLACED ENTIRELY. MAINTAIN A 2' MINIMUM OVERLAP AT EACH END.
5. INSTALL LOG SIZE THAT IS IDENTIFIED IN THE PROJECT SPECIFICATIONS.

C **EROSION LOG INSTALLATION DETAIL**
45 NOT TO SCALE

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SHEET TITLE

DETAILS 3

SHEET NUMBER

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DETAILS 4

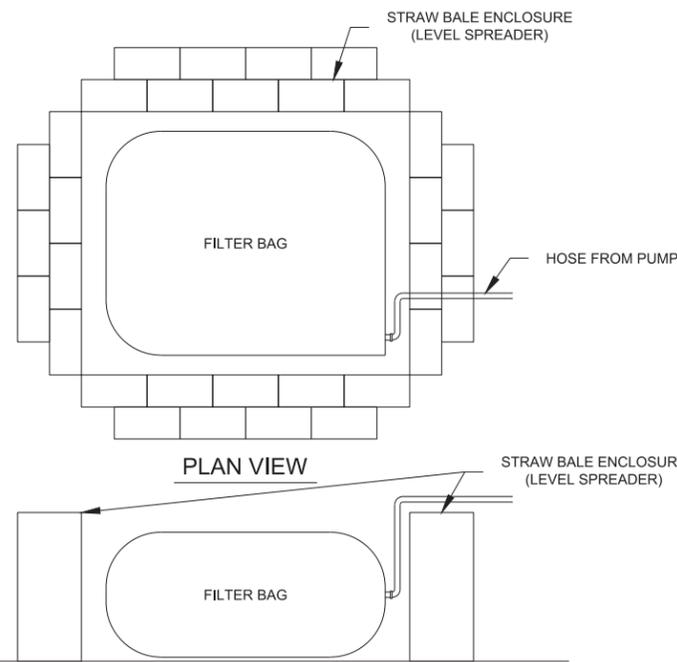
46

CONSTRUCTION SEQUENCE:

- INSTALL ALL NECESSARY EROSION CONTROL MEASURES PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- SAW CUT THE EXISTING PAVEMENT AND BEGIN REMOVING EXISTING ASPHALT, BASE MATERIAL, AND CULVERTS. CONTRACTOR TO DISPOSE OF OFF SITE AT COST TO CONTRACTOR.
- PERFORM PROOF ROLL PER SECTION 31 23 00 OF THE PROJECT MANUAL
- EXCAVATE AND REMOVE SOFT MATERIAL AND PLACE GEOGRID AND FILL WITH 8" OF 3" T.B. AND 4" OF 1 1/4" T.B. FOR DEPTHS GREATER THAN 2' CONTACT THE CITY.
- BEGIN GRADING OF DITCHES AS INDICATED ON THE PLANS.
- INSTALL PROPOSED CULVERTS AS INDICATED IN THE PLANS.
- INSTALL BASE COURSE AND ASPHALT PER DETAIL D/44.
- REPAVE ASPHALT AND CONCRETE DRIVEWAYS AS NEEDED PER CITY OF PEWAUKEE TECHNICAL STANDARDS. CULVERT ENDWALLS SHALL BE WRAPPED IN ASPHALT FOR CULVERTS UNDER ASPHALT DRIVEWAYS.
- INSTALL EROSION CONTROL MEASURES AS INDICATED ON THE EROSION CONTROL SHEETS ONCE CULVERTS ARE IN AND DITCHES ARE GRADED.
- FINE GRADE, ADD MINIMUM OF 6" OF TOPSOIL, SEED, AND CLASS I, URBAN, TYPE B OR CLASS III, TYPE B EROSION MAT.
- MAINTAIN AND WATER VEGETATION UNTIL 70% PERMANENT VEGETATIVE COVER IS OBTAINED AND STABILIZATION IS APPROVED BY CITY.
- REMOVE EROSION LOGS, AND OTHER TEMPORARY EROSION CONTROL MEASURES AFTER STABILIZATION IS APPROVED BY CITY OF PEWAUKEE.

TABLE 1: PROPERTIES FOR GEOTEXTILE BAGS

| PROPERTY | TEST METHOD | TYPE I VALUE | TYPE II VALUE |
|-------------------------------|-------------------------------|--------------|---------------|
| MAXIMUM APPARENT OPENING SIZE | ASTM D-4751 | 0.212 MM | 0.212 MM |
| GRID TENSILE STRENGTH | ASTMD-4632 | 300 LBS. | 300 LBS. |
| MULLEN BURNT | ASTM D-3766 | 350 PSI | 350 PSI |
| PERMEABILITY | ASTM D-4481 | 0.28 CM/SEC | 0.2 CM/SEC |
| FABRIC | NOMINAL REPRESENTATIVE WEIGHT | 8 OZ. | 12 OZ. |



ELEVATION PLAN

NOTES:

- ALL PUMPED EFFLUENT FROM DEWATERING OPERATIONS (TRENCH OR OTHERWISE) SHALL BE DISCHARGED TO A GEOTEXTILE FILTER BAG CONFORMING TO WDNR CONSERVATION PRACTICE STANDARD 1061.
- THE GEOTEXTILE FILTER BAG SHALL BE PLACED ON VEGETATED/STABILIZED GROUND AND DISCHARGED TO A SEDIMENT BASIN OR TRAP. SHOULD NO BASIN EXIST, THE GEOTEXTILE BAG SHALL BE PLACED ON FILTER FABRIC AND SURROUNDED BY A SEDIMENT BALE BARRIER CONFORMING TO CONSERVATION PRACTICE STANDARD 1055. THE FILTER FABRIC SHALL BE BROUGHT UP THE SIDES AND OVER THE TOP OF THE HAY BALES AND SECURED.
- DISCHARGE SHALL NOT BE ALLOWED TO FLOW OVER UNPROTECTED GROUND.
- IN NO CASE SHALL PUMPED WATER BE DIVERTED OUTSIDE THE PROJECT LIMITS PRIOR TO SEDIMENT REMOVAL.
- CLAMP PUMP DISCHARGE HOSE SECURELY INTO FILTER BAG
- LIMIT PUMPING RATE TO 1/2 THE MANUFACTURES MAXIMUM PUMPING RATE.
- WHEN SEDIMENTS FILL 1/2 THE VOLUME OF THE FILTER BAG, IMMEDIATELY REMOVE THAT BAG FROM SERVICE, PROPERLY DISPOSE OF SPENT BAGS WITH THEIR SEDIMENTS.

A DEWATERING USING SEDIMENT FILTER BAG
46 NOT TO SCALE

SEEDING SPECIFICATIONS:

TEMPORARY:

- USE ANNUAL OATS AT 3.0 LB/1,000 SF FOR SPRING AND SUMMER SEEDING.
- USE WINTER WHEAT OR WINTER RYE AT 3.0 LB/1,000 SF FOR FALL SEEDING AFTER SEPTEMBER 15.

PERMANENT:

- TURF GRASS SEED MIX: USE REINDERS INC DELUXE 50 SEED MIX AT 125 LB/ACRE

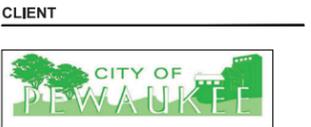
FERTILIZING SPECIFICATIONS:

TEMPORARY AND PERMANENT:

- USE WISDOT "SOWING METHOD" TYPE A OR B AT 7 LB/1,000 SF

GRADING AND EROSION CONTROL NOTES

- CONTRACTOR SHALL POST WISCONSIN DEPARTMENT OF NATURAL RESOURCES (WDNR) PERMIT ON SITE. CONTRACTOR SHALL INSTALL AND MAINTAIN ALL EROSION CONTROL MEASURES IN ACCORDANCE WITH THE CITY OF PEWAUKEE AND WDNR PERMIT REQUIREMENTS. SEE DETAILS FOR MINIMUM EROSION CONTROL MEASURES AND REFERENCES TO APPLICABLE WDNR TECHNICAL STANDARDS. CONTRACTOR SHALL DOWNLOAD APPLICABLE TECHNICAL STANDARDS FROM <https://dnr.wisconsin.gov/topic/Stormwater/standards> AND THE WISCONSIN CONSTRUCTION SITE EROSION CONTROL FIELD GUIDE FROM <https://dnr.wi.gov/topic/stormWater/documents/WlconstECfieldGuide.pdf> AND KEEP AVAILABLE ON THE JOB SITE UNTIL FINAL STABILIZATION.
- FOLLOW CONSTRUCTION SEQUENCE NOTED ON THIS PAGE UNLESS OTHERWISE DIRECTED IN THE FIELD BY THE OWNER, OWNER'S REPRESENTATIVE OR WDNR REPRESENTATIVES.
- CONTRACTOR IS REQUIRED TO CONDUCT AND RECORD A MINIMUM OF WEEKLY EROSION CONTROL INSPECTIONS AND WITHIN 24 HOURS OF RAINFALLS OVER 0.5 INCHES. ALL MAINTENANCE SHALL BE CONDUCTED WITHIN 24 HOURS. RECORDS OF INSPECTIONS AND MAINTENANCE SHALL BE KEPT ON SITE AND MADE AVAILABLE UPON REQUEST.
- EROSION CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL FINAL ACCEPTANCE OF THIS PROJECT. EROSION CONTROL MEASURES SHOWN ARE THE MINIMUM PRECAUTIONS REQUIRED. ADDITIONAL MEASURES, AS REQUESTED BY OWNER, OWNER'S REPRESENTATIVE AND/OR WDNR REPRESENTATIVES SHALL BE INSTALLED/REPAIRED WITHIN 24 HOURS.
- INSTALL TRACKOUT CONTROL PER WDNR TRACKOUT CONTROL PRACTICES #1057 AND PERIMETER CONTROLS PRIOR TO ANY LAND-DISTURBING ACTIVITIES. CONTRACTOR SHALL REMOVE ANY SEDIMENT TRACKED ONTO ADJACENT ROADS BY MEANS OF CONTAINED STREET SWEEPING (NOT BROOMING OR FLUSHING) AT A MINIMUM OF THE END OF EACH WORK DAY OR MORE AS NEEDED.
- LOCATION(S) OF SOIL STOCKPILES, INCLUDING TOPSOIL, STORED ON SITE SHALL BE SUBJECT TO APPROVAL OF OWNER. SILT FENCE SHALL BE PLACED ON THE DOWNSTREAM SIDES OF THE STOCKPILE. SOIL STOCKPILES STORED FOR MORE THAN 7 CONSECUTIVE DAYS SHALL BE TEMPORARILY STABILIZED (E.G. TEMPORARY SEEDING, MULCHING, TARPING, EROSION MATTING, ETC).
- DEWATERING - FOLLOW WDNR TECHNICAL STANDARD DEWATERING #1061 AND THE CITY OF PEWAUKEE TECHNICAL STANDARDS. NOTIFY WDNR IF DEWATERING IS SCHEDULED TO OCCUR IN AREAS OF SOIL AND/OR GROUNDWATER CONTAMINATION, OR IF DEWATERING WILL OCCUR FROM A HIGH CAPACITY WELL (70 GPM OR MORE). DEWATER ONLY AFTER THE APPROPRIATE WDNR DEWATERING DISCHARGE PERMIT HAS BEEN APPROVED. PROVIDE ANTI-SCOUR PROTECTION AND MAINTAIN NON-EROSIVE FLOW DURING DEWATERING. ALL PUMPED EFFLUENT FROM DEWATERING OPERATIONS (TRENCH DEWATERING OR OTHERWISE) SHALL BE DISCHARGED TO A GEOTEXTILE FILTER BAG. THE GEOTEXTILE BAG SHALL BE PLACED ON VEGETATED/STABILIZED GROUND AND DISCHARGE TO A SEDIMENT BASIN OR TRAP. SHOULD NO BASIN EXIST, THE GEOTEXTILE BAG SHALL BE PLACED ON TYPE R GEOTEXTILE FABRIC AND SURROUNDED BY A SEDIMENT BALE BARRIER CONFORMING TO WDNR TECHNICAL STANDARD SEDIMENT BALE BARRIER #1055. THE TYPE R GEOTEXTILE FABRIC SHALL BE BROUGHT UP THE SIDES AND OVER THE TOP OF THE SEDIMENT BALES AND SECURED. DISCHARGE SHALL NOT BE ALLOWED TO FLOW OVER UNPROTECTED GROUND. IN NO CASE SHALL PUMPED WATER BE DIVERTED OUTSIDE THE PROJECT LIMITS PRIOR TO SEDIMENT REMOVAL.
- SEED, FERTILIZER, AND EROSION MAT SHALL BE APPLIED WITHIN 7 DAYS AFTER FINAL GRADE HAS BEEN ESTABLISHED. IF DISTURBED AREAS LEFT INACTIVE FOR 14 DAYS SHALL BE STABILIZED WITH TEMPORARY SEED AND MULCH.
- NON-CANNELIZED DISTURBED LAND AREAS: PROVIDE CLASS I, URBAN, TYPE B EROSION CONTROL MATTING AND INSTALL AND MAINTAIN PER WDNR TECHNICAL STANDARD NON-CANNEL EROSION MAT #1052 IMMEDIATELY FOLLOWING FINAL GRADING, PREPARATION, AND SEEDING.
- CHANNELIZED DISTURBED LAND AREAS: PROVIDE CLASS I, URBAN, TYPE B OR CLASS II, TYPE C EROSION CONTROL MATTING AS SHOWN ON THE PLANS OR DIRECTED IN THE FIELD AND INSTALL AND MAINTAIN PER WDNR TECHNICAL STANDARD CHANNEL EROSION MAT #1053 IMMEDIATELY FOLLOWING FINAL GRADING, PREPARATION, AND SEEDING.
- DUST CONTROL: FOLLOW WDNR TECHNICAL STANDARD DUST CONTROL #1068 TO MINIMIZE EXCESSIVE DUST BY SPRINKLING WATER, APPLYING TACKIFIERS, OR APPLYING SOIL STABILIZERS AS NECESSARY.



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REGISTRATION

ISSUE/REVISION

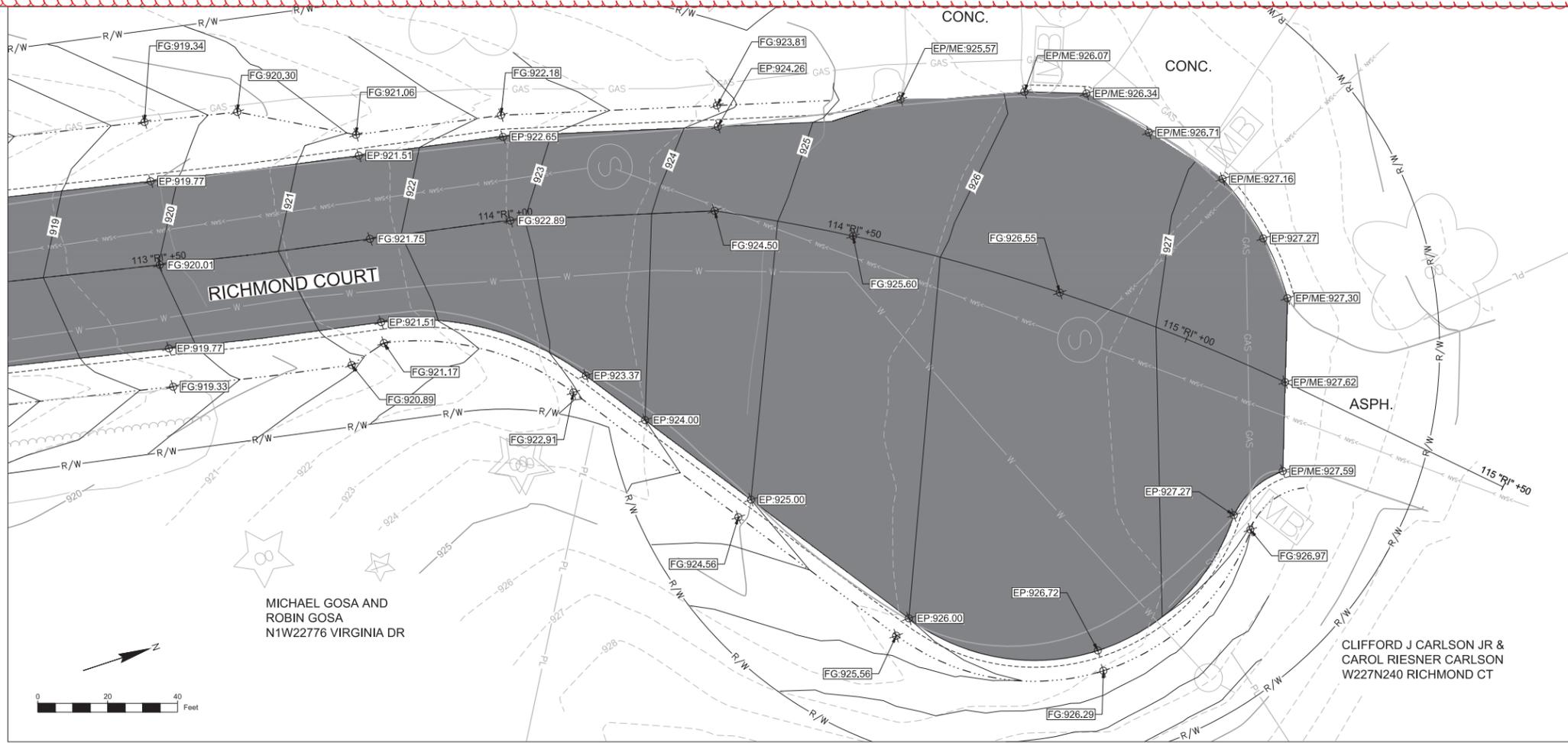
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KEY PLAN

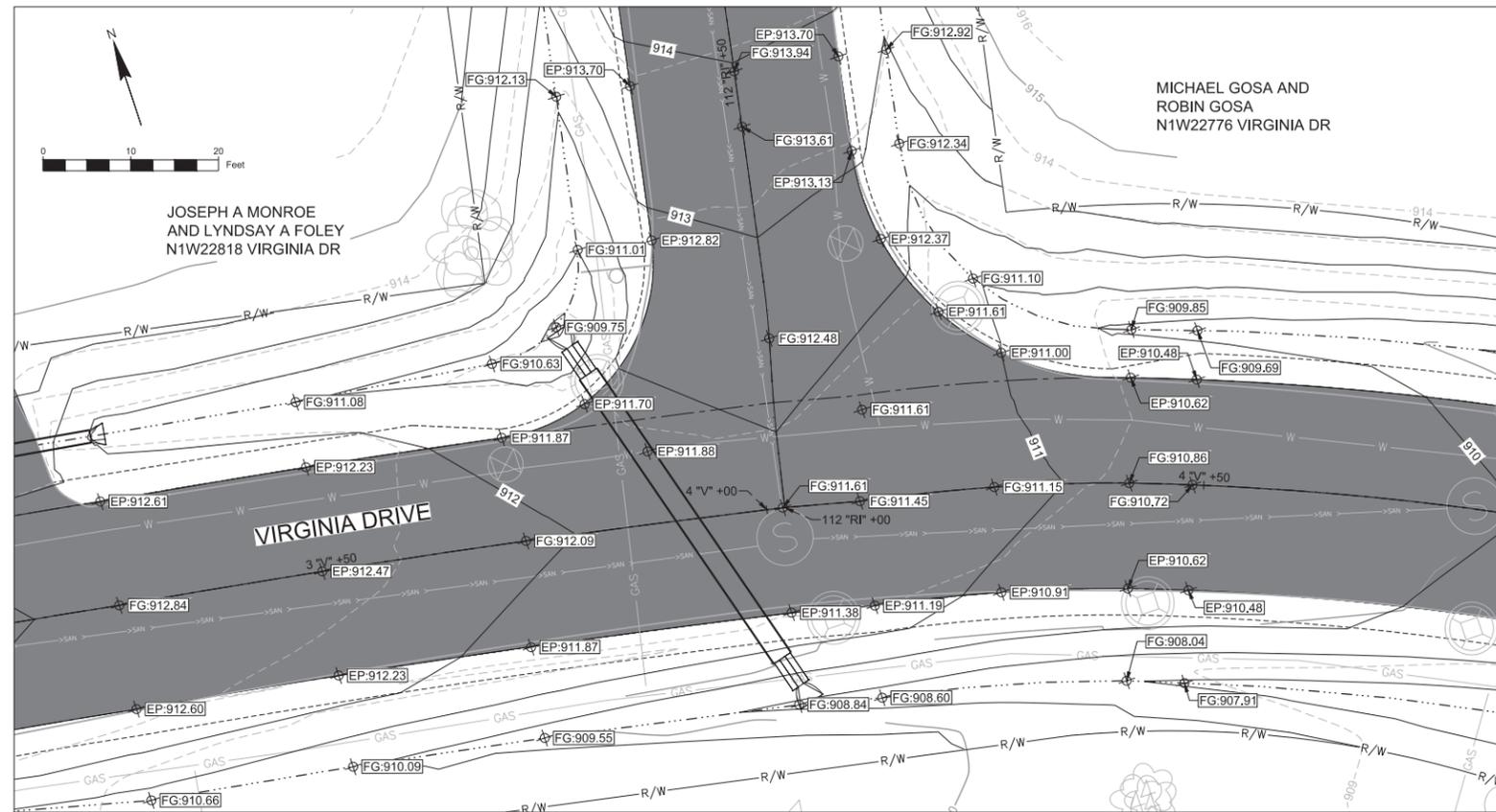
PROJECT NUMBER
 60339891

SHEET TITLE
 DETAILED GRADING 1

SHEET NUMBER
 47



RICHMOND CT CUL-DE-SAC DETAILED GRADING



RICHMOND CT VIRGINIA DR INTERSECTION DETAILED GRADING



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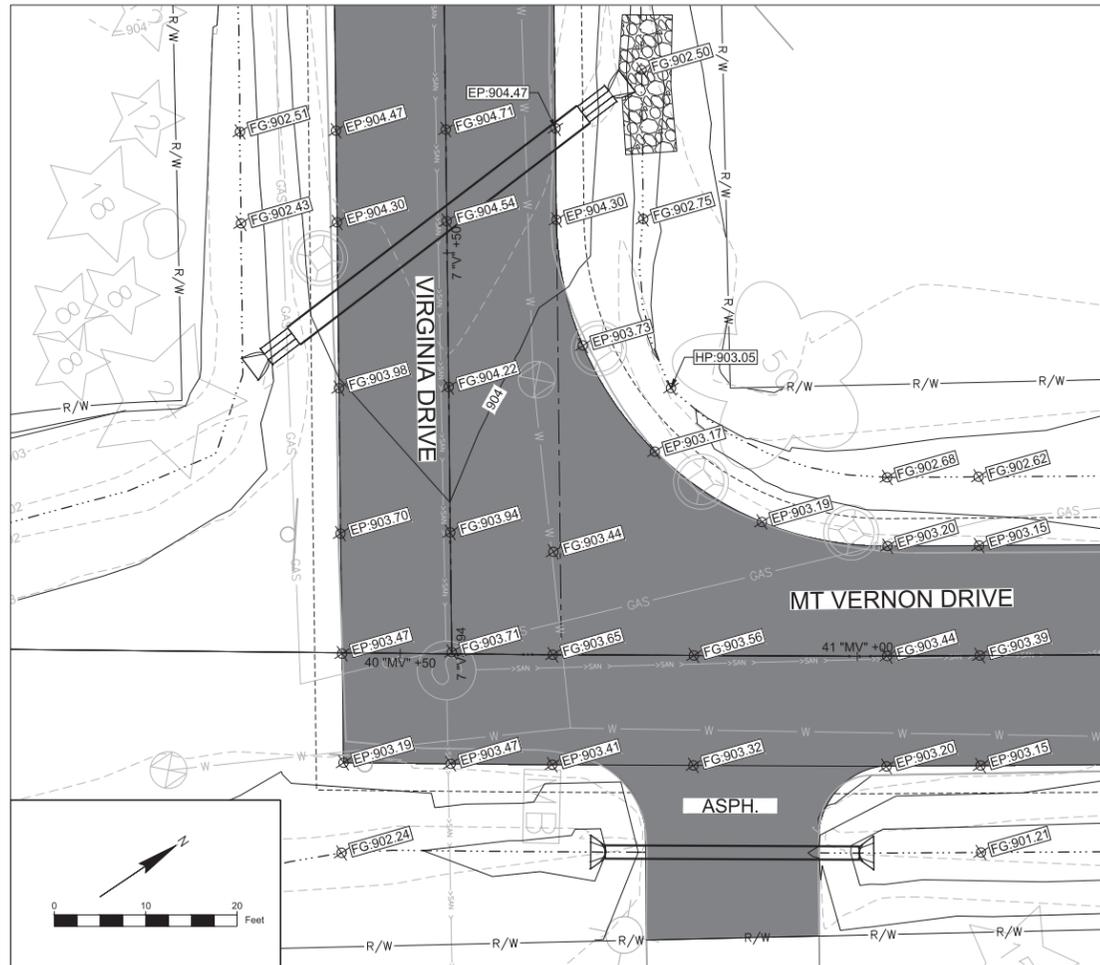
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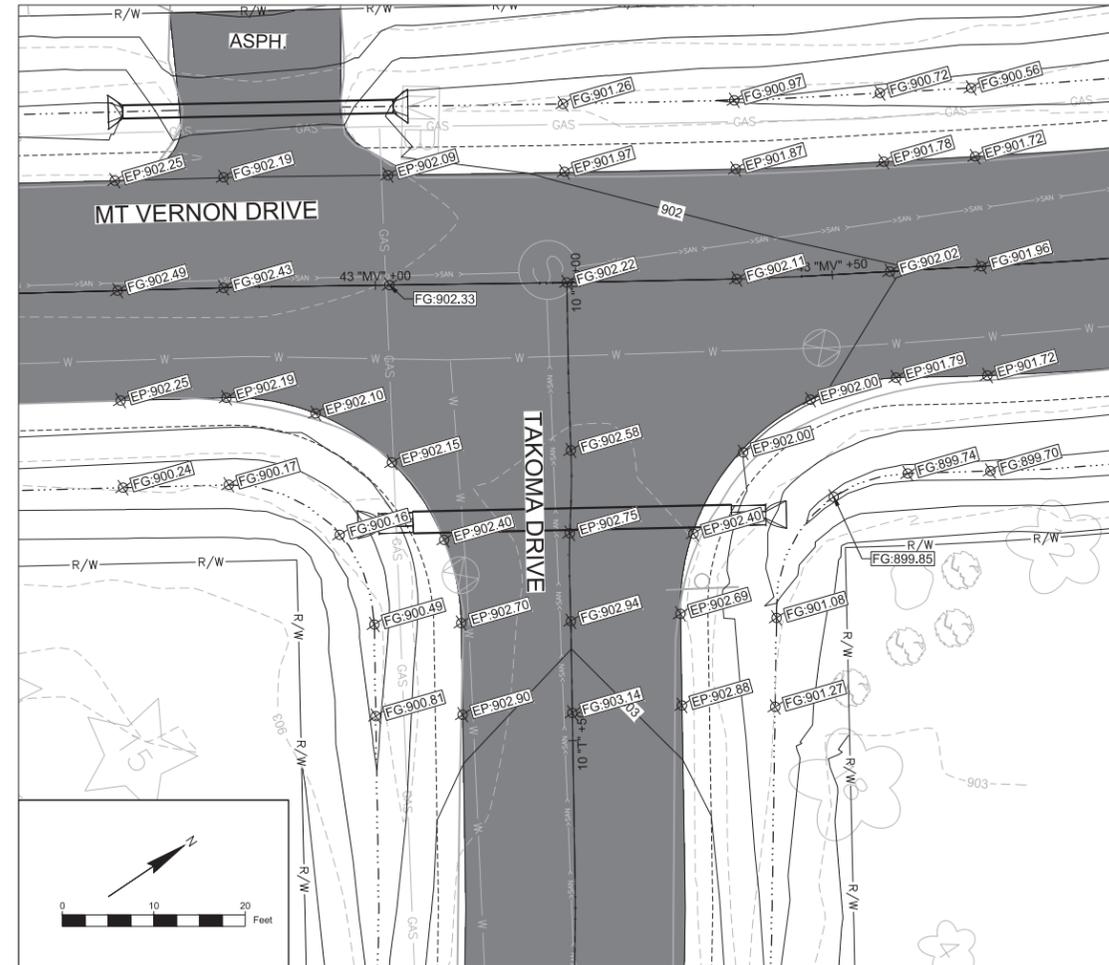
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DETAILED GRADING 2

48



VIRGINIA DR MOUNT VERNON DR INTERSECTION DETAILED GRADING



MOUNT VERNON DR TAKOMA DRIVE INTERSECTION DETAILED GRADING