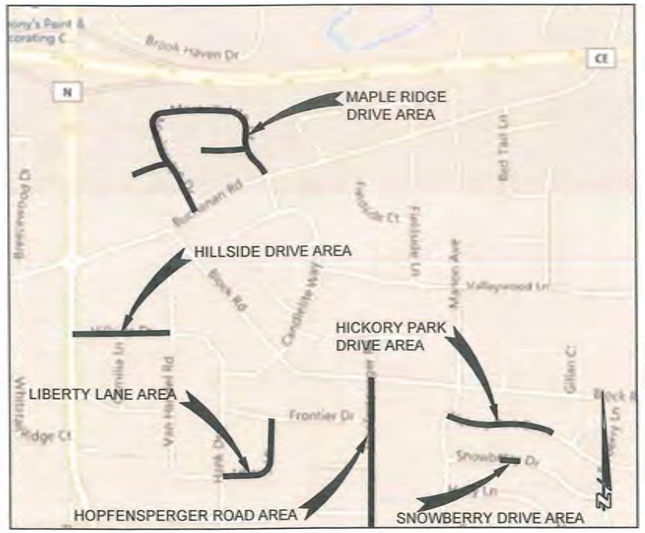
# CONSTRUCTION DRAWINGS
# FOR
# 2016 PAVING-DRAINAGE IMPROVEMENTS
## CONTRACT A-16
## TOWN OF BUCHANAN
### OUTAGAMIE COUNTY

MARCH, 2016




SITE LOCATION MAP

Prepared By

Cedar corporation

PROJECT I.D. 4916-0051

COUNTY LOCATION MAP

INDEX


| SHEET | DESCRIPTION |
|---|---|
| 1 | TITLE SHEET |
| 2 | STANDARD ABBREVIATIONS AND SYMBOLS |
| 3 | OVERALL PROJECT LOCATION MAP |
| 4-10 | MAPLE RIDGE DRIVE AREA IMPROVEMENTS |
| 11-14 | MAPLE RIDGE DRIVE AREA CROSS SECTIONS |
| 15-16 | HILLSIDE DRIVE IMPROVEMENTS |
| 17-24 | HILLSIDE DRIVE CROSS SECTIONS |
| 25-26 | LIBERTY LANE IMPROVEMENTS |
| 27-31 | LIBERTY LANE CROSS SECTIONS |
| 32-33 | HICKORY PARK DRIVE IMPROVEMENTS |
| 34-37 | HOPFENSPERGER ROAD IMPROVEMENTS |
| 38 | SNOWBERRY DRIVE IMPROVEMENTS |
| 39 | DETAILS AND NOTES |
| 40 | EROSION CONTROL DETAILS |


WISCONSIN THAD M. MAJKOWSKI E-25354 Green Bay, WI PROFESSIONAL ENGINEER

STATE OF WISCONSIN JUSTIN J. KEEN E-40462 SEYMOUR WI PROFESSIONAL ENGINEER 3-24-16

STAMPS

TITLE SHEET



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## MAPPING & TOPOGRAPHY SYMBOLOGY

| DESCRIPTION | SYMBOL EXISTING | SYMBOL PROPOSED |
|---|---|---|
| SANITARY SEWER (PLAN) – LENGTH–DIA. MATERIAL @ GRADE | (SIZE & MAT'L) SAN | |
| STORM SEWER (PLAN) – LENGTH–DIA. MATERIAL @ GRADE | (SIZE & MAT'L.) STM | LENGTH – SIZE MATL STM |
| WATER MAIN (PLAN)– LENGTH–DIA. MATERIAL–(FITTING–FITTING) | (SIZE & MAT'L.) WM | |
| SANITARY SEWER (PROFILE) – LENGTH–DIA. MATERIAL @ GRADE | (SIZE & MAT'L) | |
| SANITARY FORCEMAIN (PROFILE) – DIA. MATERIAL | (SIZE & MAT'L) | |
| STORM SEWER (PROFILE) – LENGTH–DIA. MATERIAL @ GRADE | (SIZE & MAT'L.) | |
| WATER MAIN (PROFILE)– DIA. MATERIAL | (SIZE & MAT'L.) | |
| GAS MAIN | GAS | |
| ELECTRIC – BURIED | UGE | |
| ELECTRIC – OVERHEAD | OE | |
| TELEPHONE – BURIED | TEL | |
| TELEPHONE – BURIED (FIBER OPTIC) | FO | |
| TELEPHONE – OVERHEAD | OH | |
| CABLE TELEVISION – BURIED | TV | |
| CABLE TELEVISION – OVERHEAD | OH | |
| CENTERLINE | | |
| RIGHT–OF–WAY LINE | | |
| PROPERTY LINE | | |
| PAVEMENT (STREET, DRIVE, SIDEWALK, ETC.) | | |
| GRAVEL | | |
| CURB & GUTTER | | |
| RAILROAD | | |
| FENCE – AS LABELED | –X–X–X–X–X–X–X–X– | –X–X–X–X–X–X–X–X– |
| GUARDRAIL | | |

## MAPPING & TOPOGRAPHY SYMBOLOGY

| DESCRIPTION | SYMBOL EXISTING | SYMBOL PROPOSED |
|---|---|---|
| BENCH MARK | | 1 |
| CATCH BASIN/INLET | | |
| CONTROL POINT | CP | |
| CULVERT | (DIA. & TYPE) | (LENGTH–DIA. & TYPE) |
| CURB STOP G=GAS W=WATER | G OR W | |
| ELECTRIC PEDESTAL | | |
| FIRE HYDRANT | | |
| IRON PIPE = IP IRON ROD = IR | IP OR IR | |
| LIGHT – ORNAMENTAL | | |
| LIGHT – STREET | | |
| MAILBOX | MB | |
| MANHOLE ELECTRIC | E | |
| MANHOLE GAS | G | |
| MANHOLE MISCELANEOUS | MH | |
| MANHOLE SANITARY | SA | |
| MANHOLE SIGNAL | SI | |
| MANHOLE STORM | ST | ST |
| MANHOLE STORM INLET CATCH BASIN | | |
| MANHOLE WATER | W | |
| MANHOLE TELEPHONE | T | |
| METER – GAS | G | |
| METER – WATER | W | |
| PEDESTAL CABLE TV | | |
| PEDESTAL TELEPHONE | | |
| SIGN | | |
| BUSH CONIFER | | |
| BUSH DECIDUOUS | | |
| TREE DECIDUOUS/INCH DIA | 12" | |
| TREE CONIFEROUS/INCH DIA | 10" | |
| TREE LINE | | |
| VALVE: W=WATER, G=GAS | W OR G | |
| UTILITY POLE | | |
| SILT FENCE | SF | SF |
| MAJOR CONTOURS | 890 | 890 |
| MINOR CONTOURS | | |
| SPOT ELEVATIONS | +891.2 | +891.22 |
| ASPHALT TO BE REMOVED AND REPLACED | | |
| CONCRETE TO BE REMOVED AND REPLACED | | |
| GRAVEL TO BE REMOVED AND REPLACED | | |

NOTE:. ALL PROPERTY LINES SHOWN ARE ESTABLISHED FROM OUTAGAMIE COUNTY GIS FILES. PROPERTY LINES MAY NOT REFLECT ACTUAL LOT LINE LOCATIONS AND ARE FOR INFORMATIONAL PURPOSES ONLY.

## LIST OF STANDARD ABBREVIATIONS

| | |
|---|---|
| ASPH | ASPHALT |
| B/B | BACK TO BACK |
| BOC | BACK OF CURB |
| BLDG | BUILDING |
| BM | BENCH MARK |
| BSMT | BASEMENT |
| C | CUT |
| C&G | CURB AND GUTTER |
| C/C | CENTER TO CENTER |
| CABC | CRUSHED AGGREGATE BASE COURSE |
| CB | CATCH BASIN |
| CI | CAST IRON PIPE |
| CL | CENTERLINE |
| CMP | CORRUGATED METAL PIPE |
| CO | CLEAN OUT |
| CONC | CONCRETE |
| CP | CONTROL POINT |
| CTH | COUNTY TRUNK HIGHWAY |
| CTV | CABLE TV |
| CS | CURB STOP |
| DIA | DIAMETER |
| DI | DUCTILE IRON PIPE |
| EA | EACH |
| ELEC | ELECTRIC (E WHEN USED IN LINE STYLE) |
| EP | EDGE OF PAVEMENT |
| EXIST | EXISTING |
| FH | FIRE HYDRANT |
| FL | FLOW LINE |
| FM | FORCE MAIN |
| FO | FIBER OPTIC |
| G | GAS |
| GV | GAS VALVE |
| GW | GUY WIRE |
| INV | INVERT |
| IP | IRON PIPE OR PIN |
| L | LENGTH (OF CURVE) |
| LC | LONG CHORD OF CURVE |
| LP | LIGHT POLE |
| MB | MAILBOX |
| MG | METER–GAS |
| MH | MANHOLE |
| NTS | NOT TO SCALE |
| PC | POINT OF CURVATURE |
| PCC | POINT OF COMPOUND CURVE |
| PED | PEDESTAL |
| PVMT | PAVEMENT |
| PI | POINT OF INTERSECTION |
| PL | PROPERTY LINE |
| PP | POWER POLE |
| PROP | PROPOSED |
| PT | POINT OF TANGENCY |
| PVC OR PVC | POLYVINYL CHLORIDE / POINT OF VERTICAL CURVATURE |
| PVI | POINT OF VERTICAL INTERSECTION |
| PVT | POINT OF VERTICAL TANGENCY |
| R | RANGE OR RADIUS |
| RCP | REINFORCED CONCRETE PIPE |
| REBAR | REINFORCEMENT BAR |
| REQD | REQUIRED |
| RL | REFERENCE LINE |
| ROW | RIGHT–OF–WAY |
| SAN | SANITARY |
| SDWK | SIDEWALK |
| SF | SILT FENCE |
| SL | SANITARY LATERAL |
| SHLDR | SHOULDER |
| STA | STATION |
| STH | STATE TRUNK HIGHWAY |
| STM | STORM OR STORM SEWER |
| TEL | TELEPHONE |
| TEMP | TEMPORARY |
| TOC | TOP OF CURB |
| TYP | TYPICAL |
| VC | VERTICAL CURVE |
| WM | WATER MAIN |
| WS | WATER SERVICE |
| WV | WATER VALVE |

### BENCHMARKS (MAPLE RIDGE DRIVE AREA)

| NO | DESCRIPTION | ELEV. |
|---|---|---|
| 1 | TAG BOLT ON HYDRANT AT NE CORNER OF MAPLE RIDGE DR. AND BUCHANAN RD. (WESTERLY INTERSECTION) | 735.06 |
| 2 | TAG BOLT ON HYDRANT AT #2656 MAPLE RIDGE CT. | 738.27 |
| 3 | TAG BOLT ON HYDRANT AT NW CORNER OF MAPLE RIDGE DR. AND MAPLE RIDGE CT. | 738.30 |
| 4 | TAG BOLT ON HYDRANT AT #N427/#N421 MAPLE RIDGE DR. | 740.65 |
| 5 | TAG BOLT ON HYDRANT AT #N451 MAPLE RIDGE DR. | 735.36 |
| 6 | TAG BOLT ON HYDRANT AT NW CORNER OF MAPLE RIDGE DR. AND ASPEN CT. | 727.32 |
| 7 | TAG BOLT ON HYDRANT AT #W2606–#W2612 ASPEN CT. | 737.48 |
| 8 | TAG BOLT ON HYDRANT AT NE CORNER OF MAPLE RIDGE DR AND BUCHANAN RD. (EASTERLY INTERSECTION) | 731.82 |

### BENCHMARKS (HILLSIDE DRIVE AREA)

| NO | DESCRIPTION | ELEV. |
|---|---|---|
| 9 | TAGBOLT ON HYDRANT AT SE CORNER OF HILLSIDE DR. AND CTH N. | 739.21 |
| 10 | TAGBOLT ON HYDRANT AT SE CORNER OF HILLSIDE DR. AND CAMILIA LN. | 740.07 |
| 11 | TAG BOLT ON HYDRANT AT SW CORNER OF HILLSIDE DR. AND VAN HANDEL RD. | 735.53 |

### BENCHMARKS (LIBERTY LANE AREA)

| NO | DESCRIPTION | ELEV. |
|---|---|---|
| 12 | TOP NUT OF HYDRANT AT SE CORNER OF LIBERTY LN. AND FRONTIER DR. | 750.75 |
| 13 | TOP NUT OF HYDRANT AT NW CORNER OF LIBERTY LN. AND HANK DR. | 749.22 |

### BENCHMARKS (HOPFENSPERGER ROAD AREA)

| NO | DESCRIPTION | ELEV. |
|---|---|---|
| 14 | TOP NUT ON HYDRANT AT SW CORNER OF HOPFENSPERGER RD. AND BLOCK RD. | 749.33 |
| 15 | TOP NUT ON HYDRANT AT SW CORNER OF HOPFENSPERGER RD. AND FRONTIER DR. | 749.30 |
| 16 | BURY BOLT ON HYDRANT AT SW CORNER OF HOPFENSPERGER RD. AND PIONEER CT. | 752.67 |
| 17 | BURY BOLT ON HYDRANT AT SW CORNER OF HOPFENSPERGER RD. AND WEDGEWOOD CT. | 758.38 |
| 18 | BURY BOLT ON HYDRANT AT SW CORNER OF HOPFENSPERGER RD. AND SKYVIEW CT. | 761.59 |

### BENCHMARKS (HICKORY PARK DRIVE AREA)

| NO | DESCRIPTION | ELEV. |
|---|---|---|
| 19 | TAG BOLT ON HYDRANT AT #W2439–#2445 HICKORY PARK DR. | 747.93 |
| 20 | TAG BOLT ON HYDRANT AT #W2415–#W2409 HICKORY PARK DR. | 745.77 |

### BENCHMARKS (SNOWBERRY DRIVE AREA)

| NO | DESCRIPTION | ELEV. |
|---|---|---|
| 23 | BURY BOLT ON HYDRANT AT #W2421–#W2415 SNOWBERRY DR. | 749.14 |

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| BOOK NO. | |
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TOWN OF BUCHANAN
2016 PAVING–DRAINAGE IMPROVEMENTS
CONTRACT NO. "A–16"
STANDARD ABBREVIATIONS AND SYMBOLS




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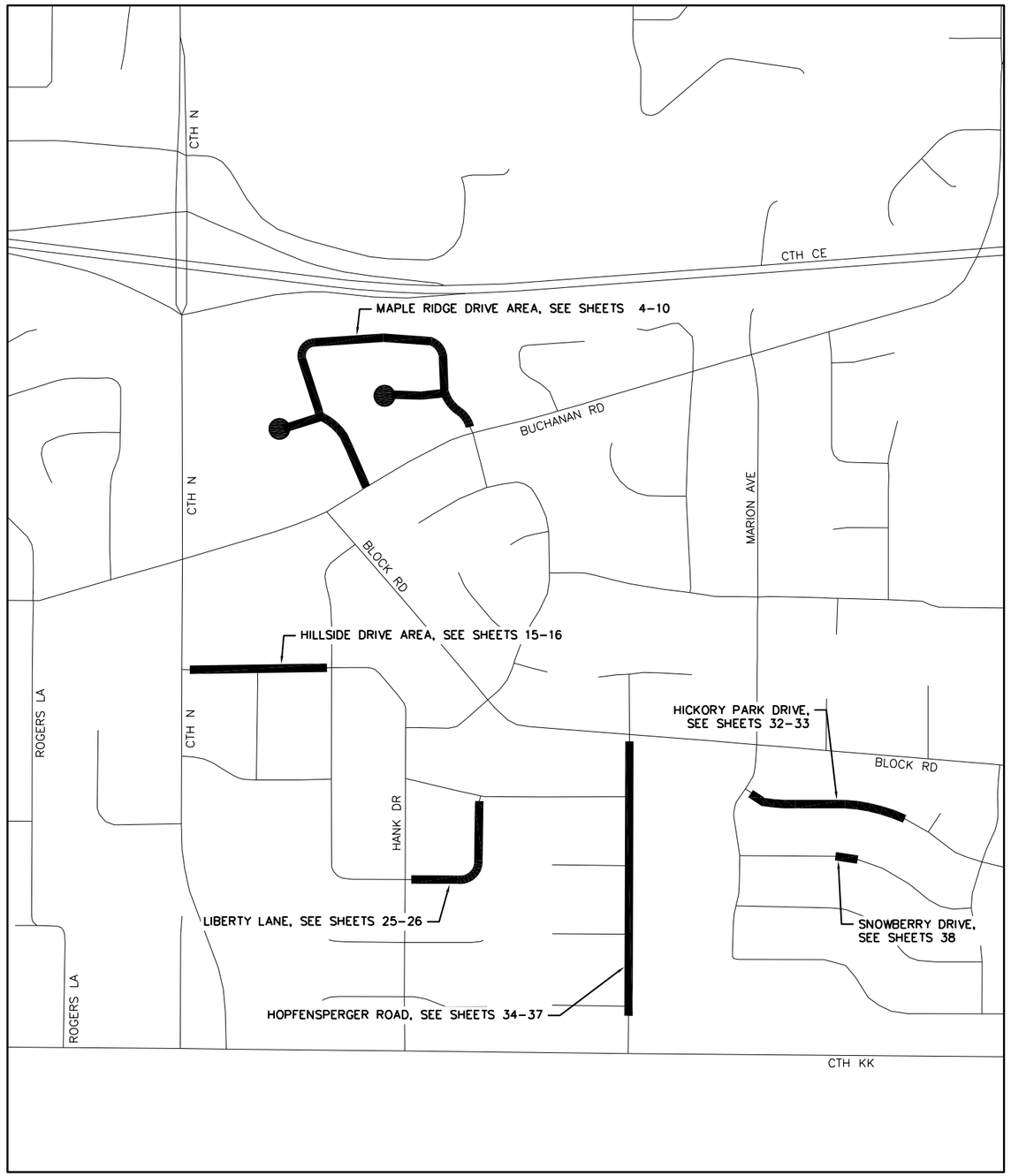


LEGEND

AREAS OF CONSTRUCTION

N.T.S.

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# TOWN OF BUCHANAN
## 2016 PAVING-DRAINAGE IMPROVEMENTS
## CONTRACT NO. "A-16"
## OVERALL PROJECT LOCATION MAP

SHEET NO.
3 OF 40

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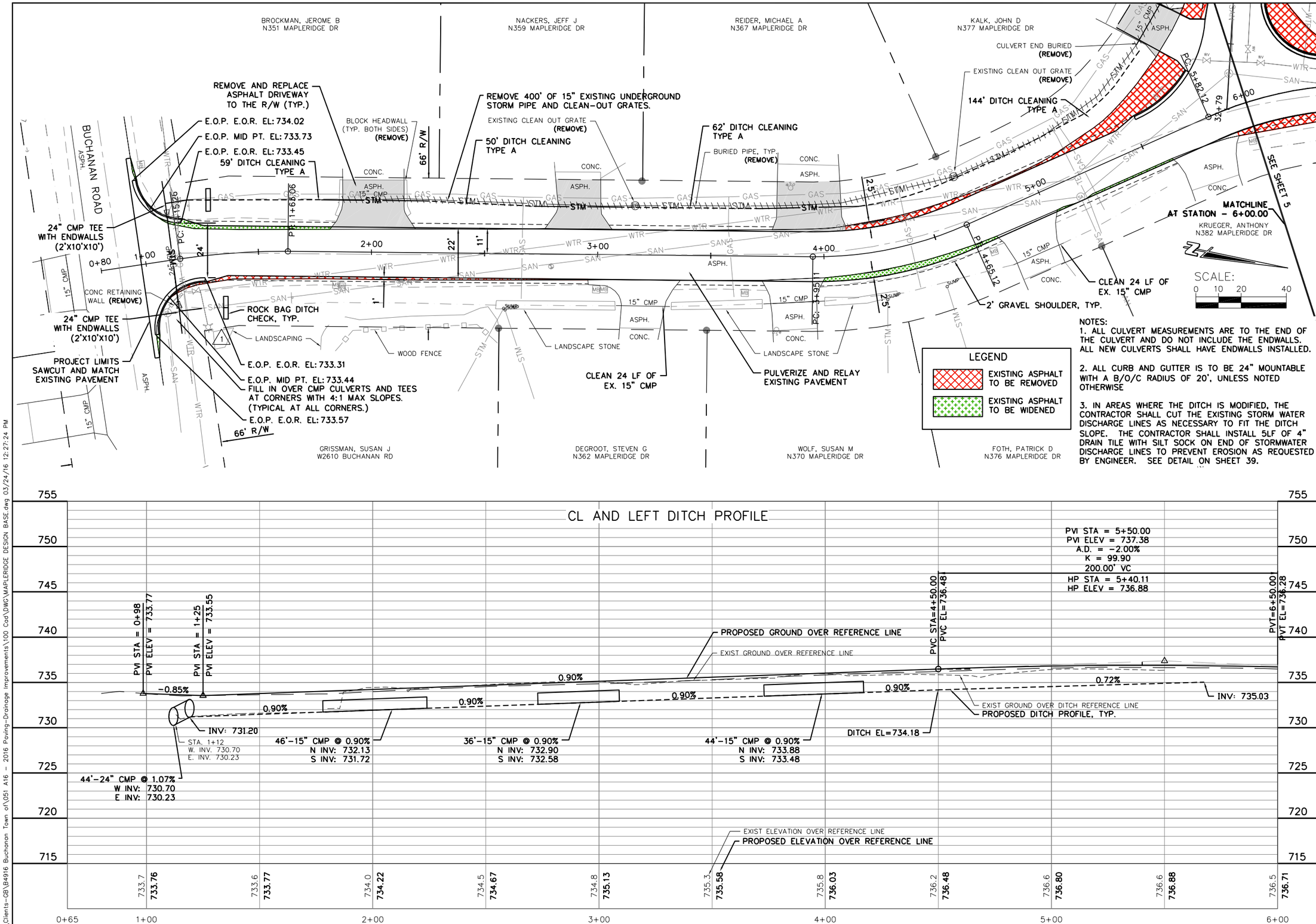


NOTES:

1. ALL CULVERT MEASUREMENTS ARE TO THE END OF THE CULVERT AND DO NOT INCLUDE THE ENDWALLS. ALL NEW CULVERTS SHALL HAVE ENDWALLS INSTALLED.

2. ALL CURB AND GUTTER IS TO BE 24" MOUNTABLE WITH A B/O/C RADIUS OF 20', UNLESS NOTED OTHERWISE

3. IN AREAS WHERE THE DITCH IS MODIFIED, THE CONTRACTOR SHALL CUT THE EXISTING STORM WATER DISCHARGE LINES AS NECESSARY TO FIT THE DITCH SLOPE. THE CONTRACTOR SHALL INSTALL 5LF OF 4" DRAIN TILE WITH SILT SOCK ON END OF STORMWATER DISCHARGE LINES TO PREVENT EROSION AS REQUESTED BY ENGINEER. SEE DETAIL ON SHEET 39.

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# TOWN OF BUCHANAN
## 2016 PAVING-DRAINAGE IMPROVEMENTS
## CONTRACT NO. "A-16"
## MAPLERIDGE DRIVE IMPROVEMENTS




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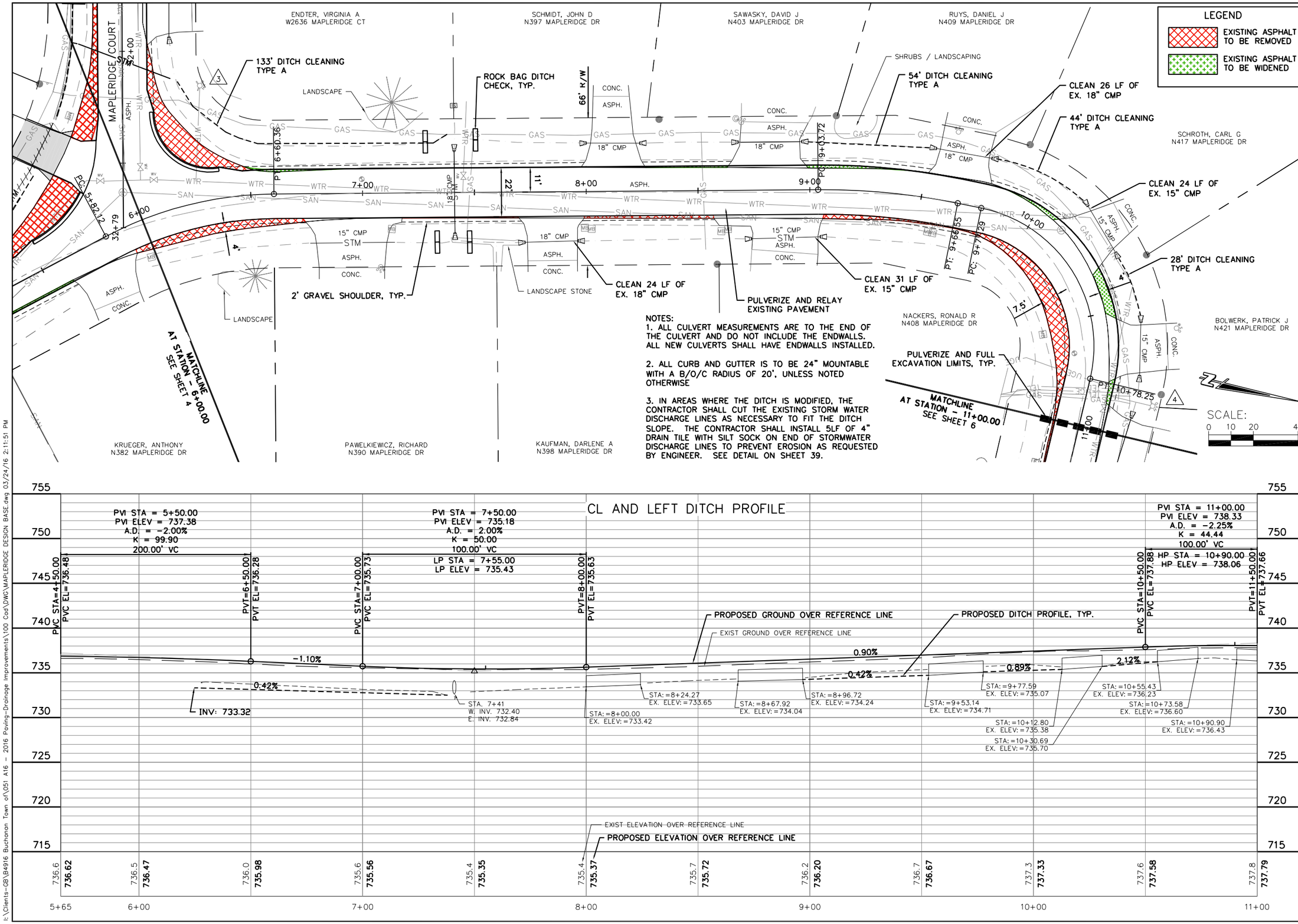


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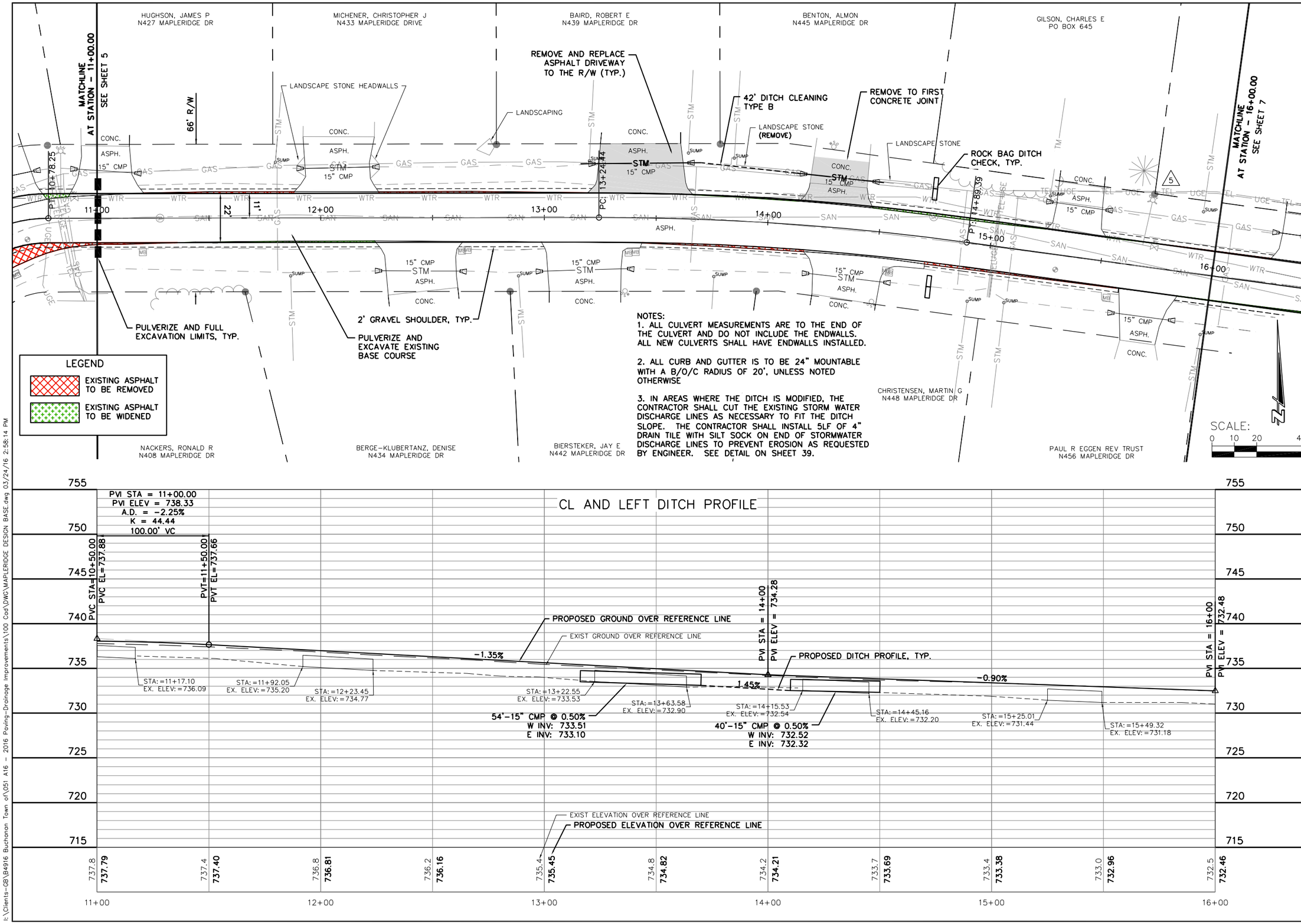


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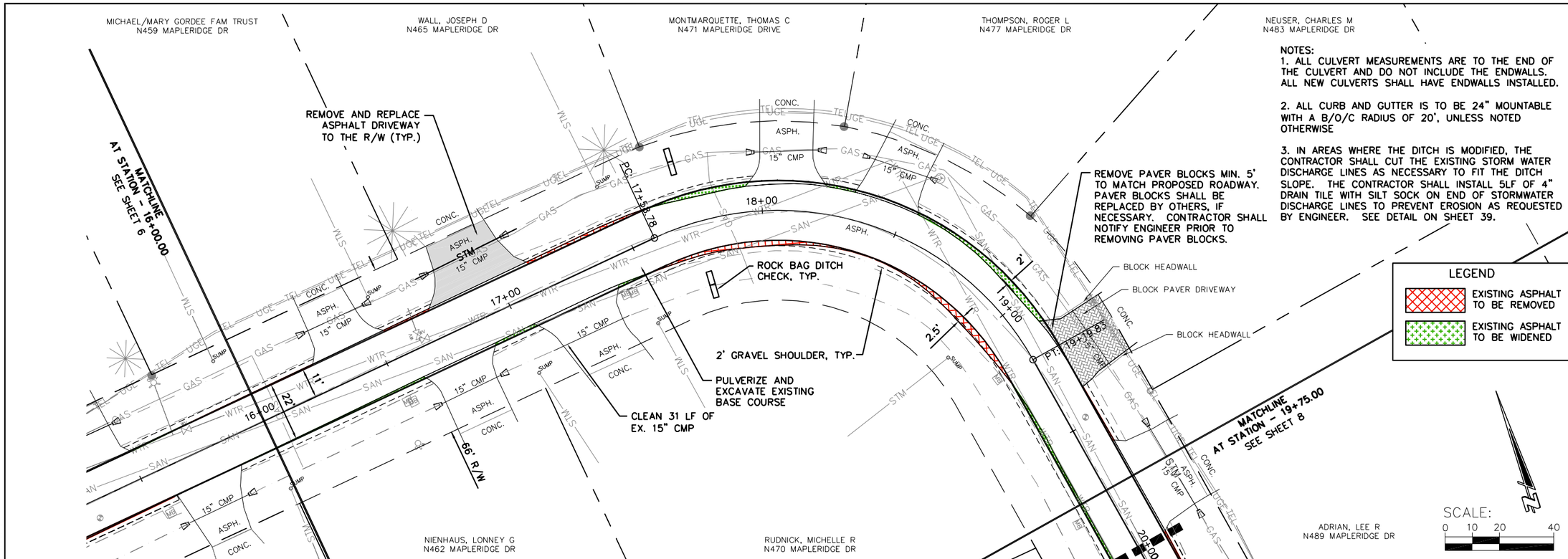


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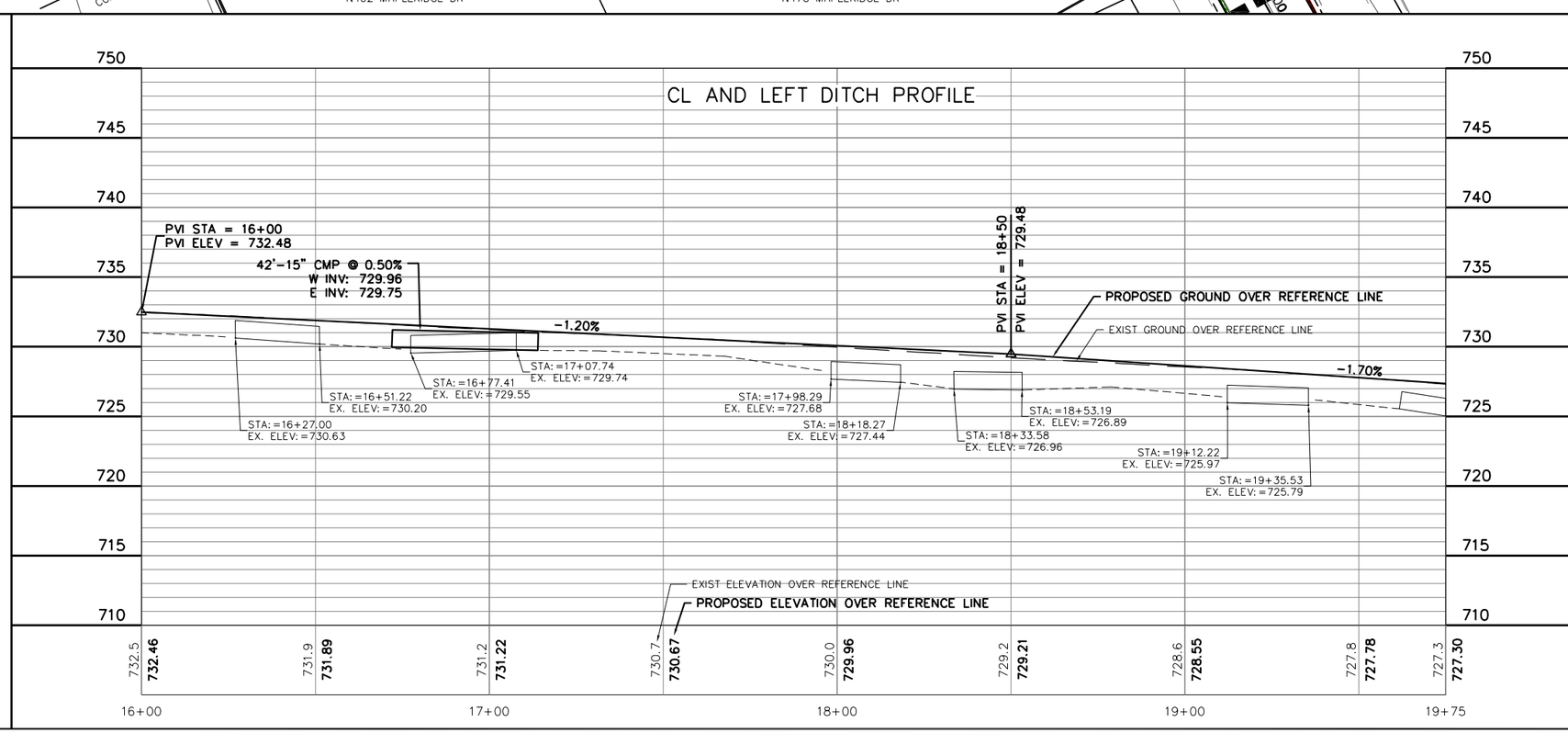


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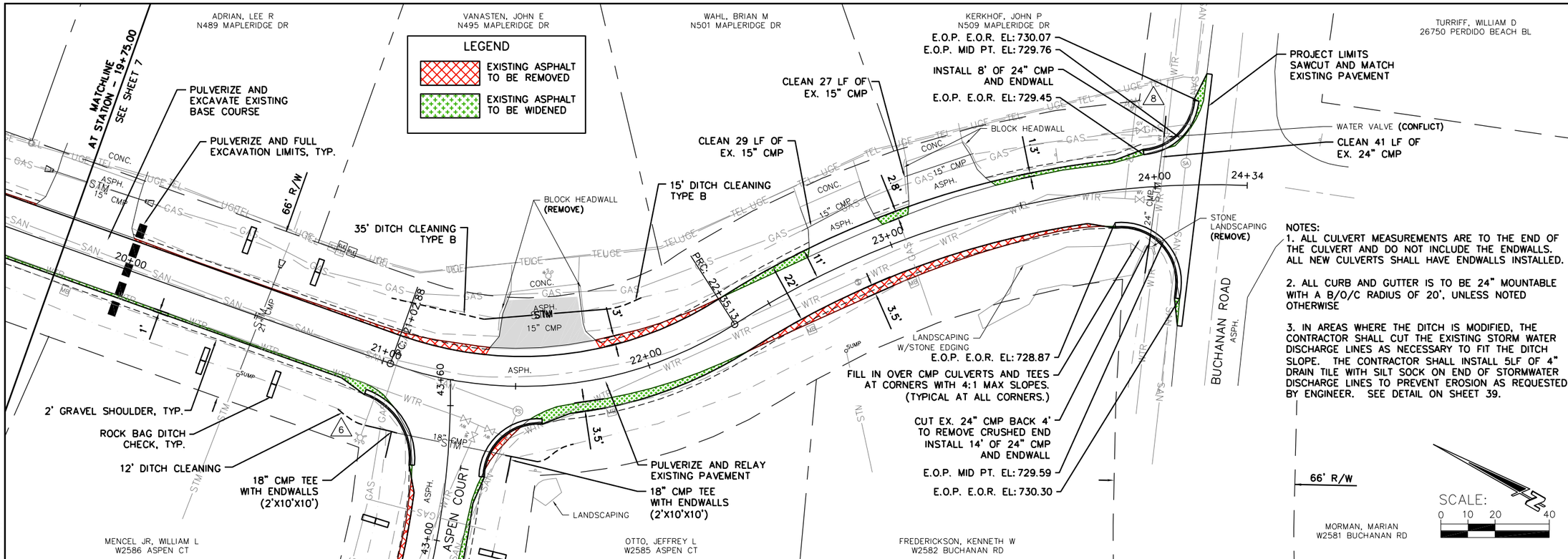


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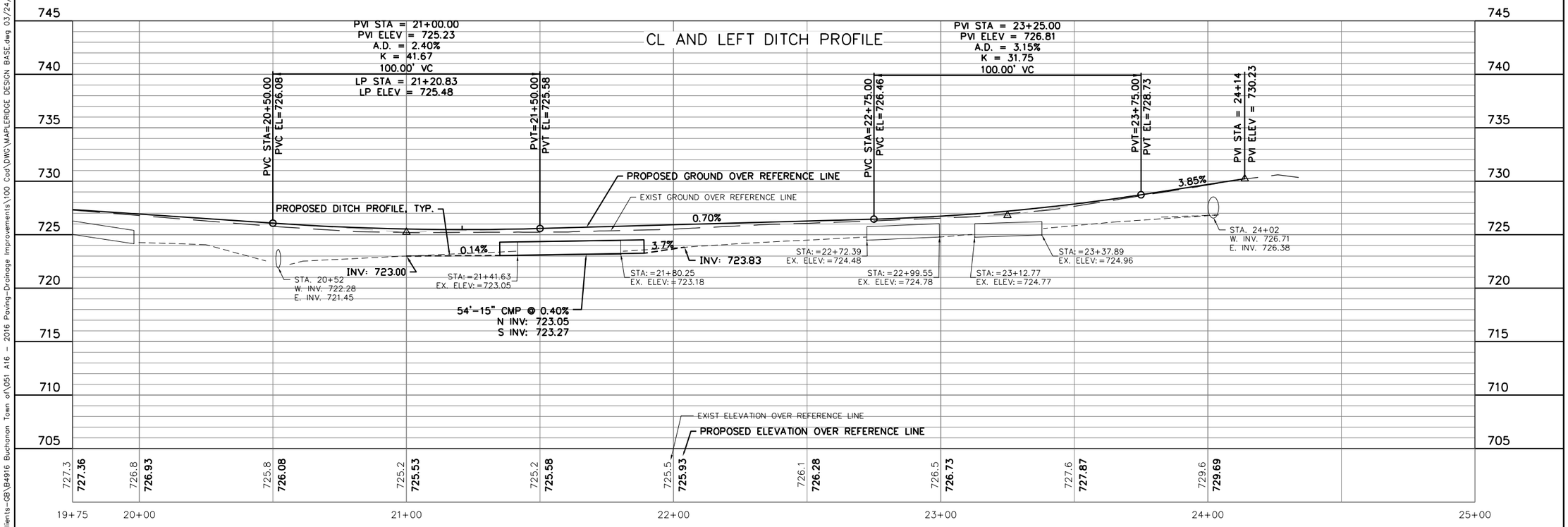


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## MAPLERIDGE DRIVE IMPROVEMENTS




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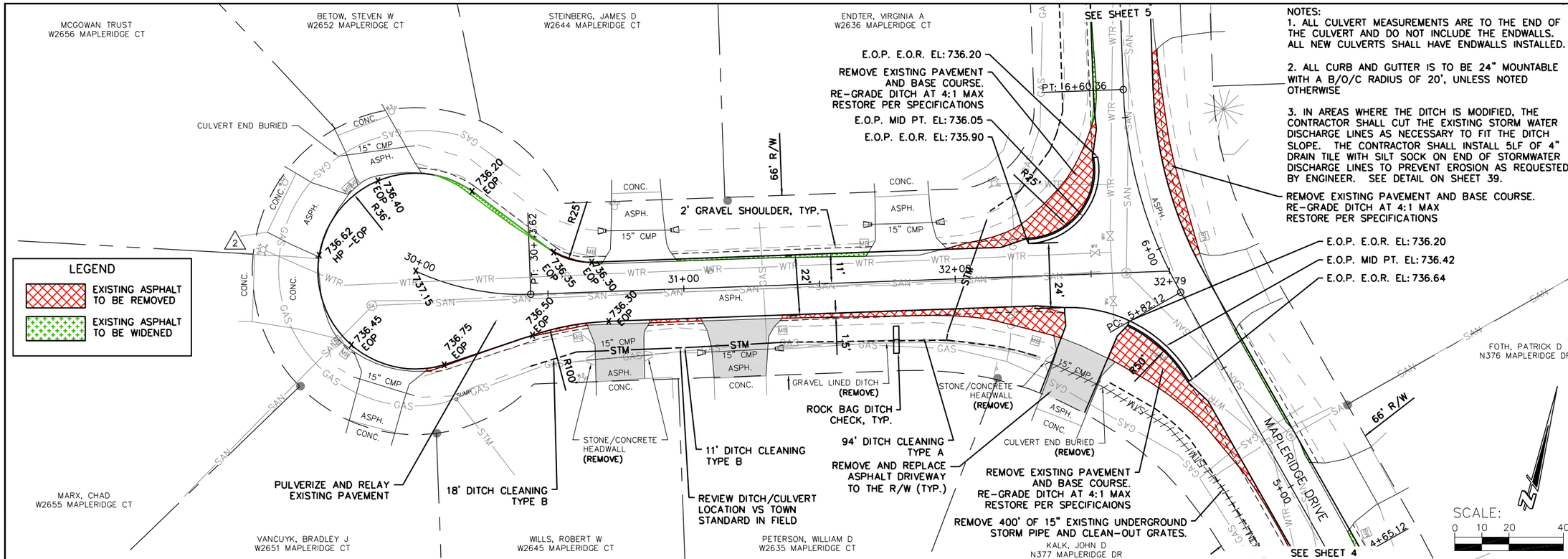
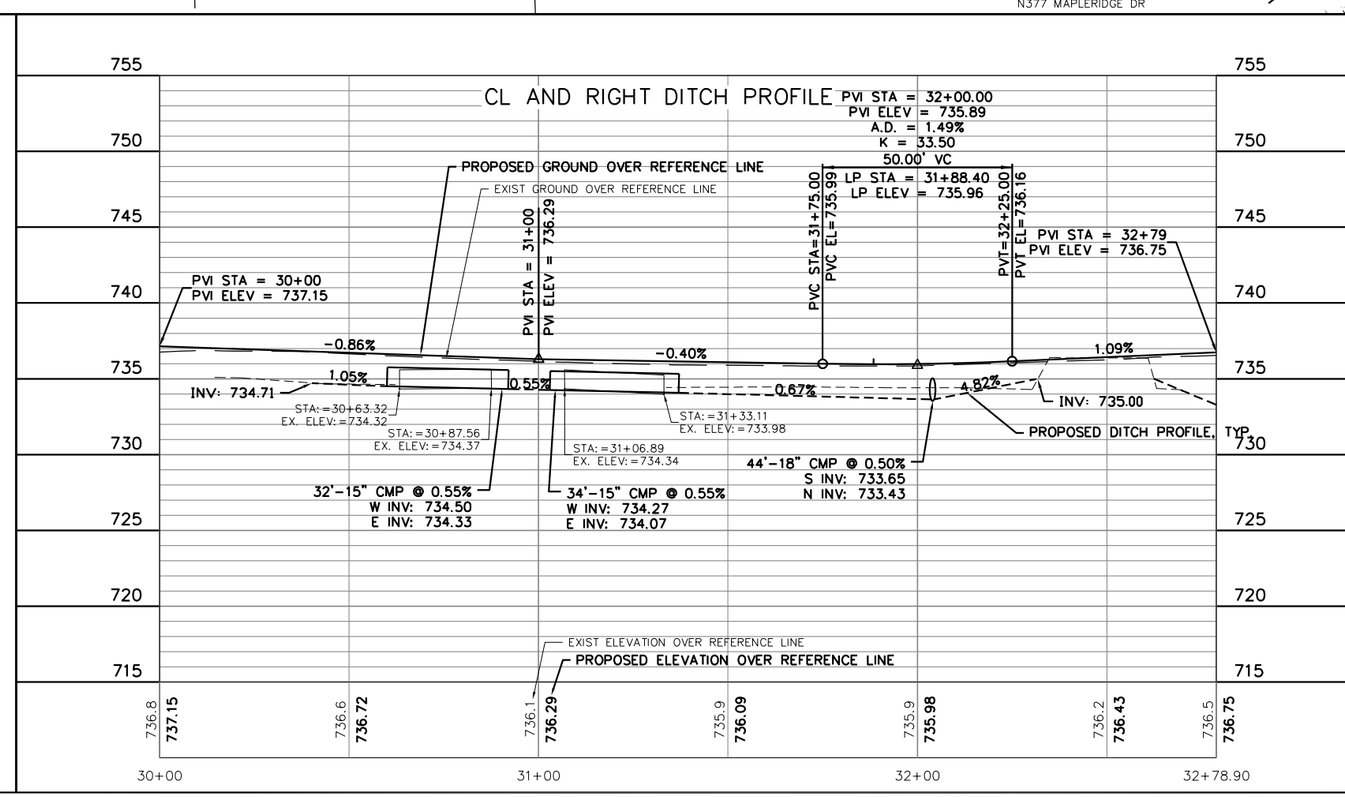



NOTES:

1. ALL CULVERT MEASUREMENTS ARE TO THE END OF THE CULVERT AND DO NOT INCLUDE THE ENDWALLS. ALL NEW CULVERTS SHALL HAVE ENDWALLS INSTALLED.

2. ALL CURB AND GUTTER IS TO BE 24" MOUNTABLE WITH A B/O/C RADIUS OF 20', UNLESS NOTED OTHERWISE

3. IN AREAS WHERE THE DITCH IS MODIFIED, THE CONTRACTOR SHALL CUT THE EXISTING STORM WATER DISCHARGE LINES AS NECESSARY TO FIT THE DITCH SLOPE. THE CONTRACTOR SHALL INSTALL 5LF OF 4" DRAIN TILE WITH SILT SOCK ON END OF STORMWATER DISCHARGE LINES TO PREVENT EROSION AS REQUESTED BY ENGINEER. SEE DETAIL ON SHEET 39.

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| BOOK NO. | |
| DRAWN BY | KLJ |
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| DATE | 12/22/15 |
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# TOWN OF BUCHANAN
## 2106 PAVING-DRAINAGE IMPROVEMENTS
## CONTRACT NO. "A-16"
## MAPLERIDGE COURT IMPROVEMENTS




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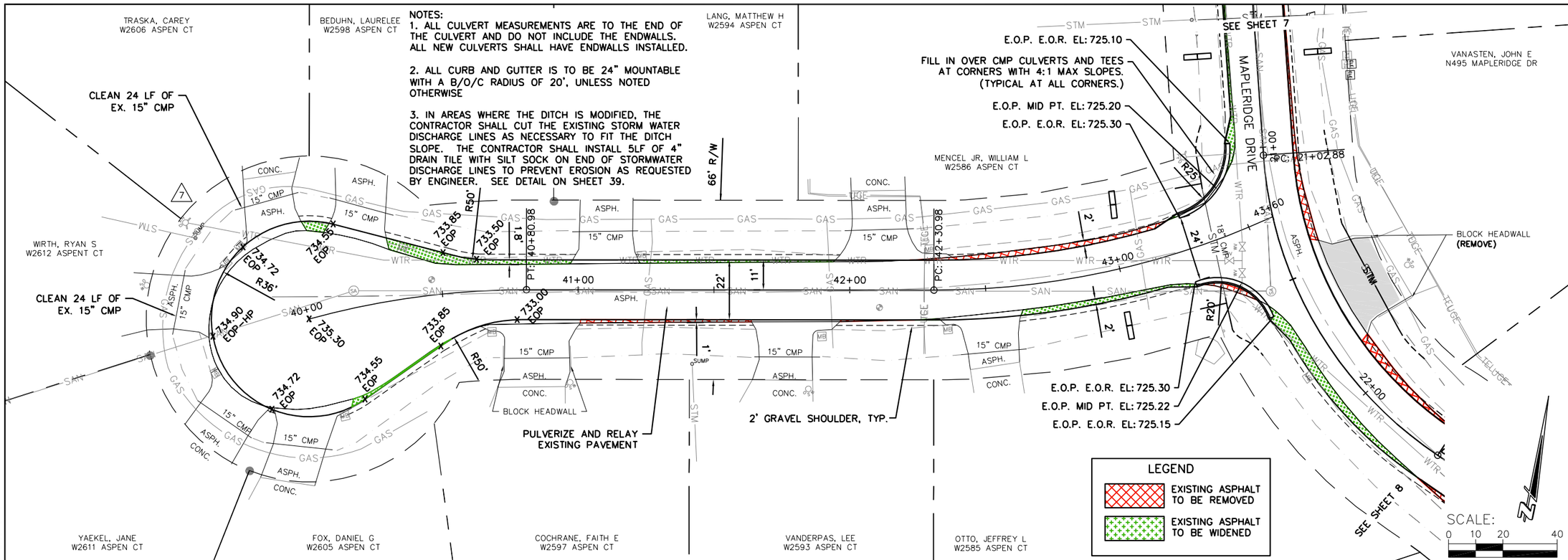


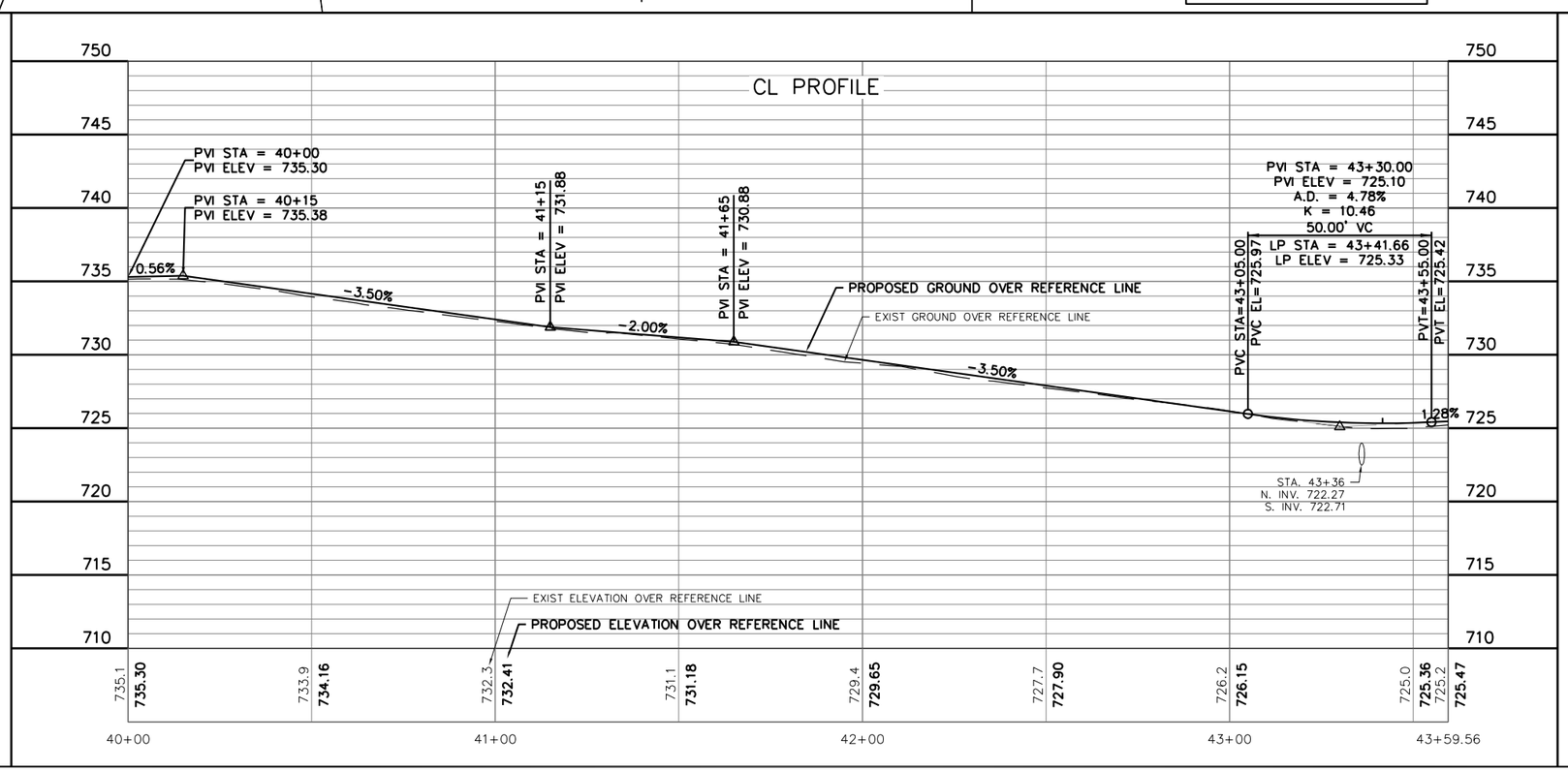


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# TOWN OF BUCHANAN
## 2016 PAVING-DRAINAGE IMPROVEMENTS
## CONTRACT NO. "A-16"
## ASPEN COURT IMPROVEMENTS




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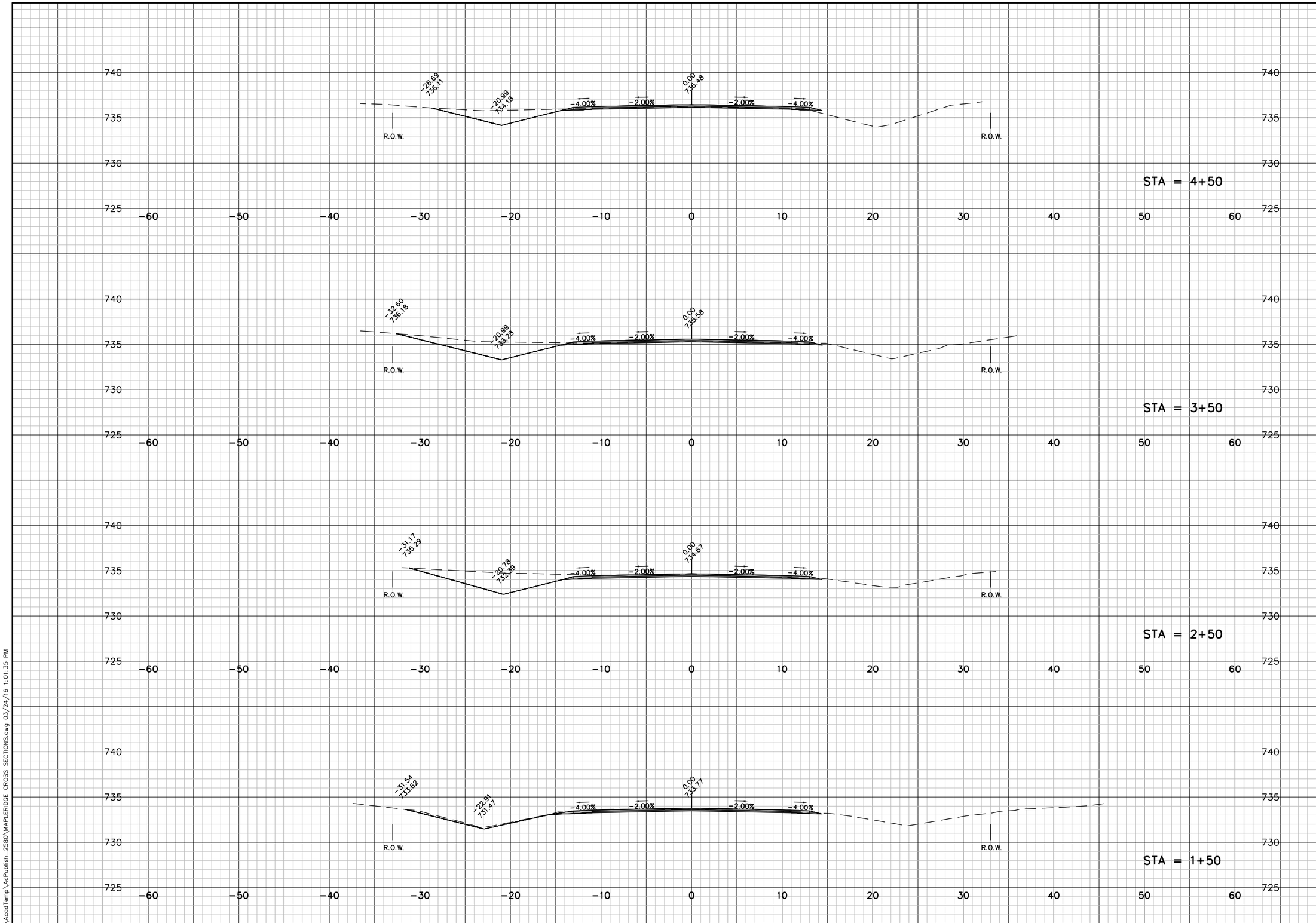


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# TOWN OF BUCHANAN
## 2016 PAVING-DRAINAGE IMPROVEMENTS
## CONTRACT A-16
## MAPLE RIDGE DRIVE CROSS SECTIONS

SHEET NO.
11 OF 40

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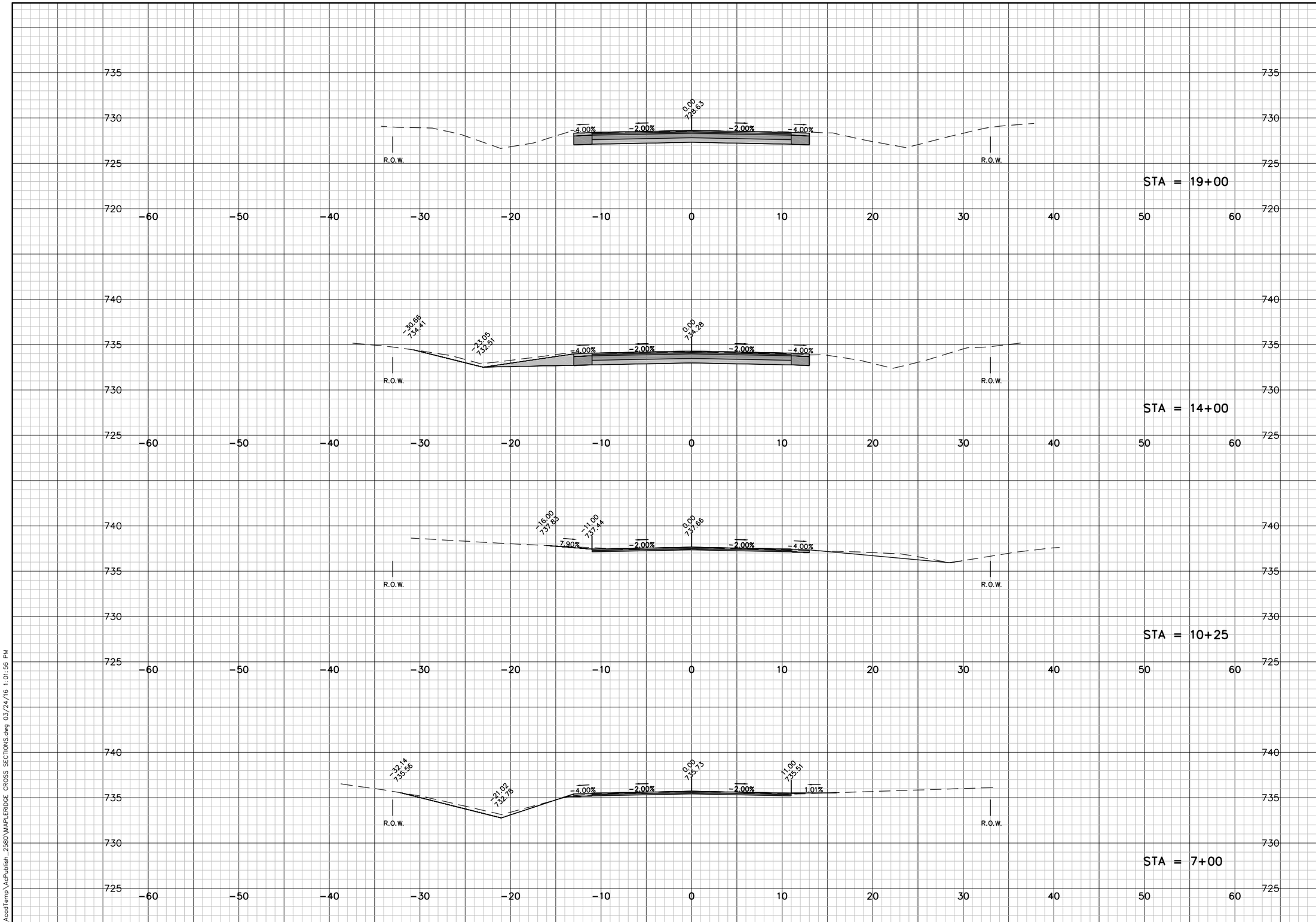


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# TOWN OF BUCHANAN
## 2016 PAVING-DRAINAGE IMPROVEMENTS
## CONTRACT A-16
## MAPLE RIDGE DRIVE CROSS SECTIONS




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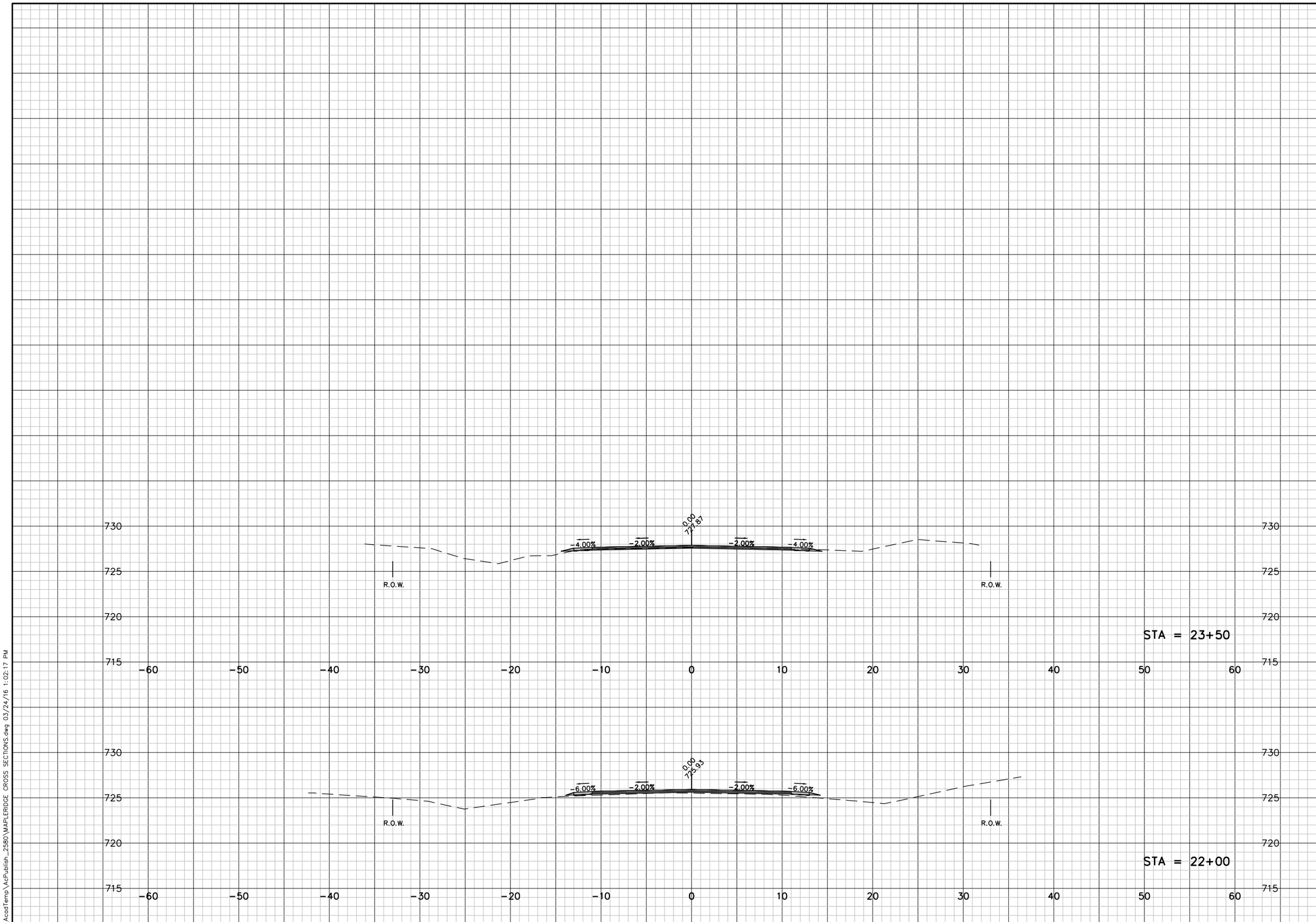


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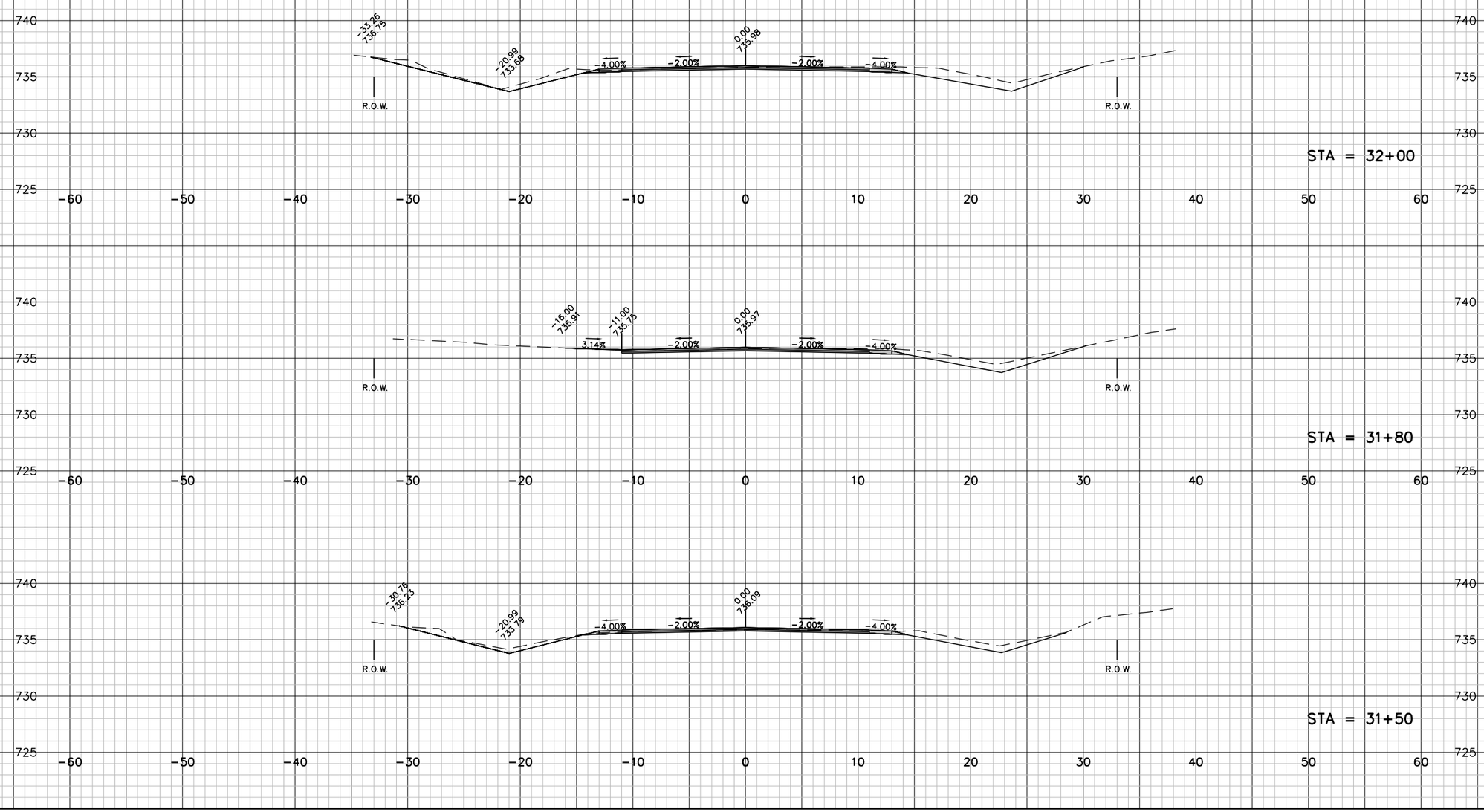
# TOWN OF BUCHANAN
## 2016 PAVING-DRAINAGE IMPROVEMENTS
## CONTRACT A-16
## MAPLE RIDGE DRIVE CROSS SECTIONS

SHEET NO.
13 OF 40

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# TOWN OF BUCHANAN

## 2016 PAVING-DRAINAGE IMPROVEMENTS

## CONTRACT A-16

## MAPLE RIDGE COURT CROSS SECTIONS

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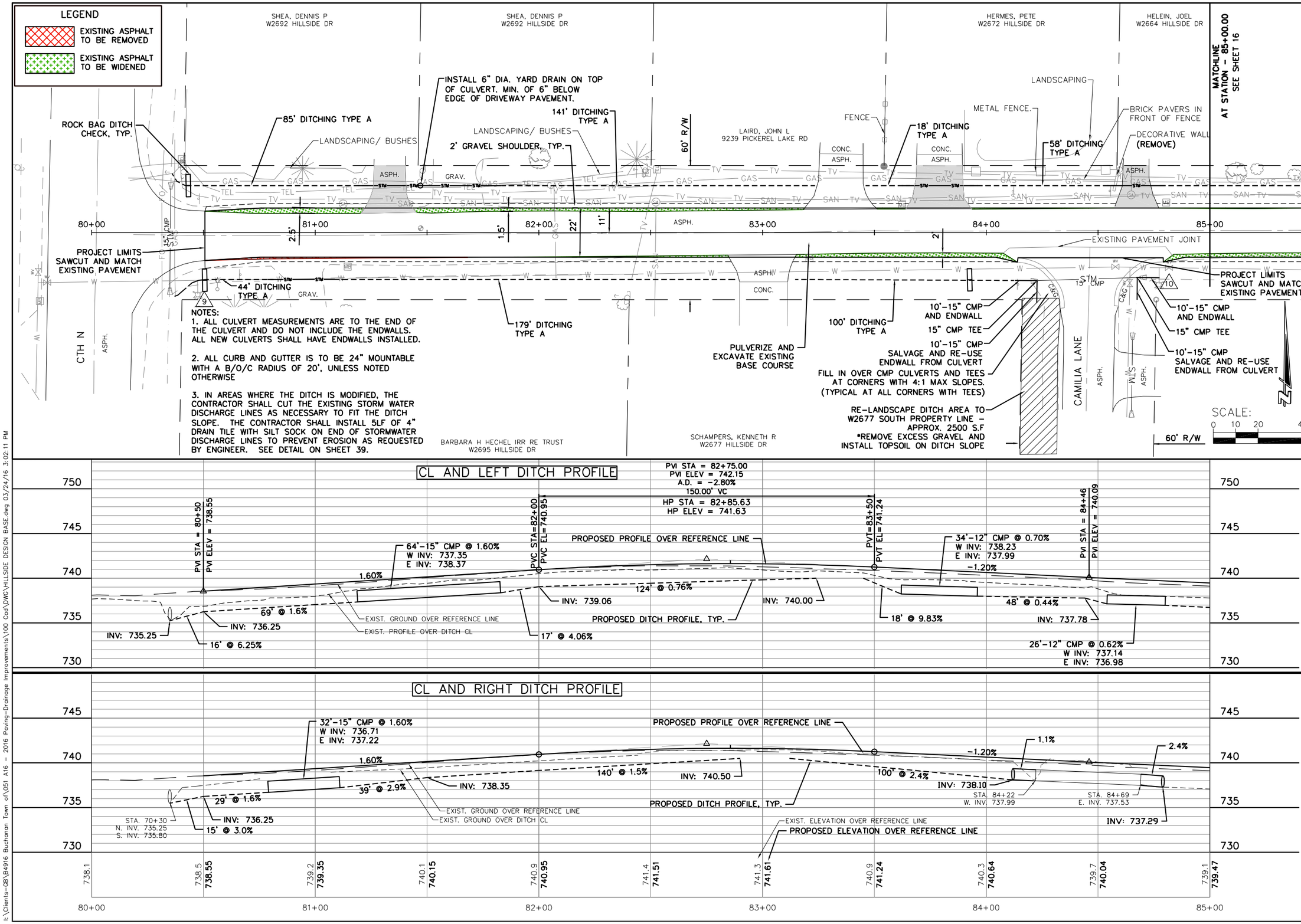


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TOWN OF BUCHANAN
2016 PAVING-DRAINAGE IMPROVEMENTS
CONTRACT NO. "A-16"
HILLSIDE DRIVE IMPROVEMENTS




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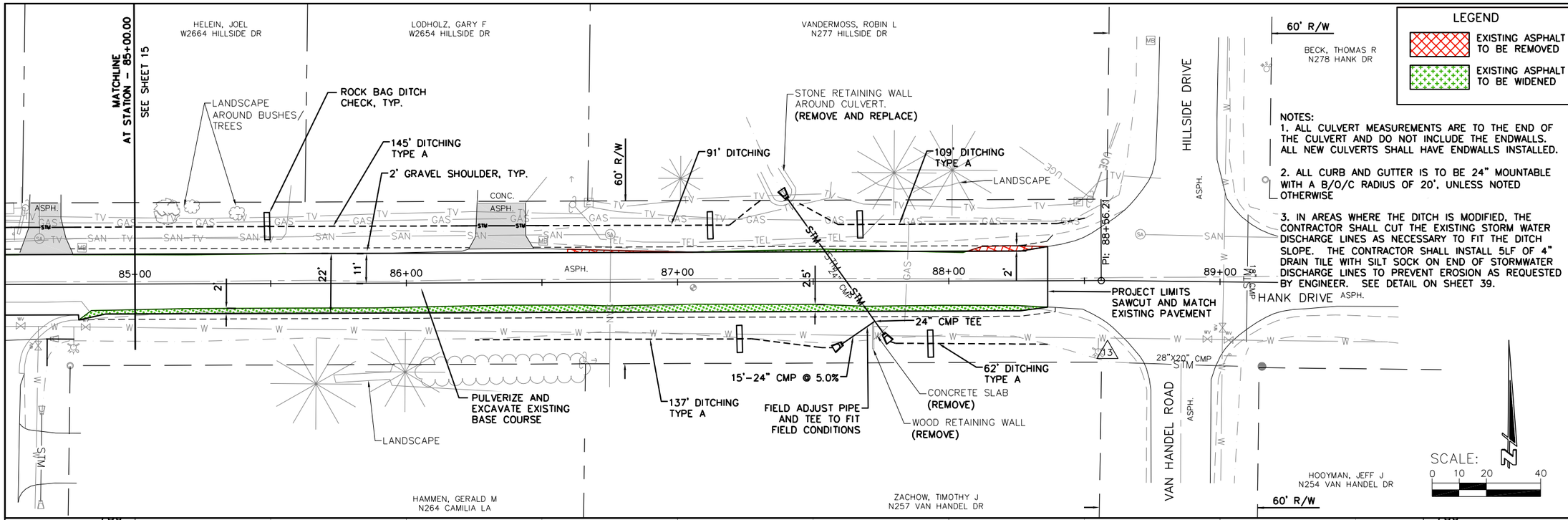


## LEGEND

- EXISTING ASPHALT TO BE REMOVED
- EXISTING ASPHALT TO BE WIDENED

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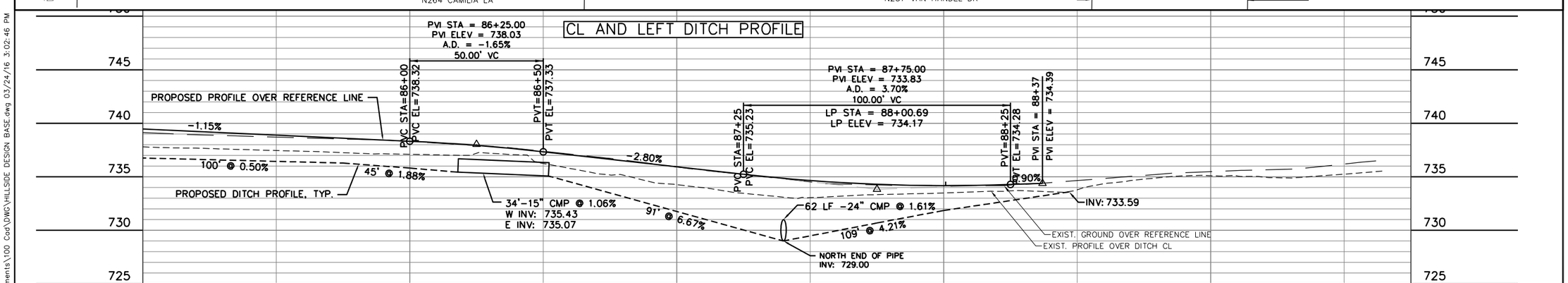


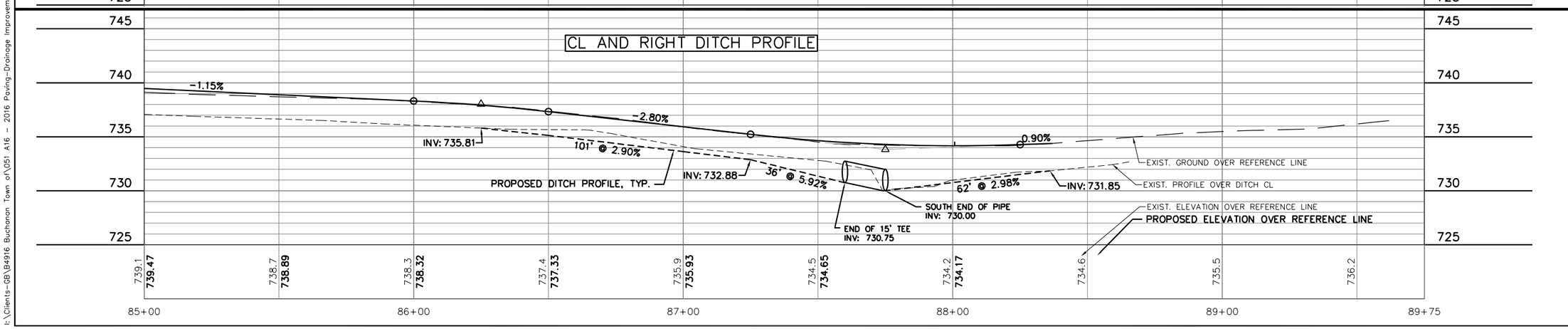


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# TOWN OF BUCHANAN
## 2016 PAVING-DRAINAGE IMPROVEMENTS
## CONTRACT NO. "A-16"
## HILLSIDE DRIVE IMPROVEMENTS




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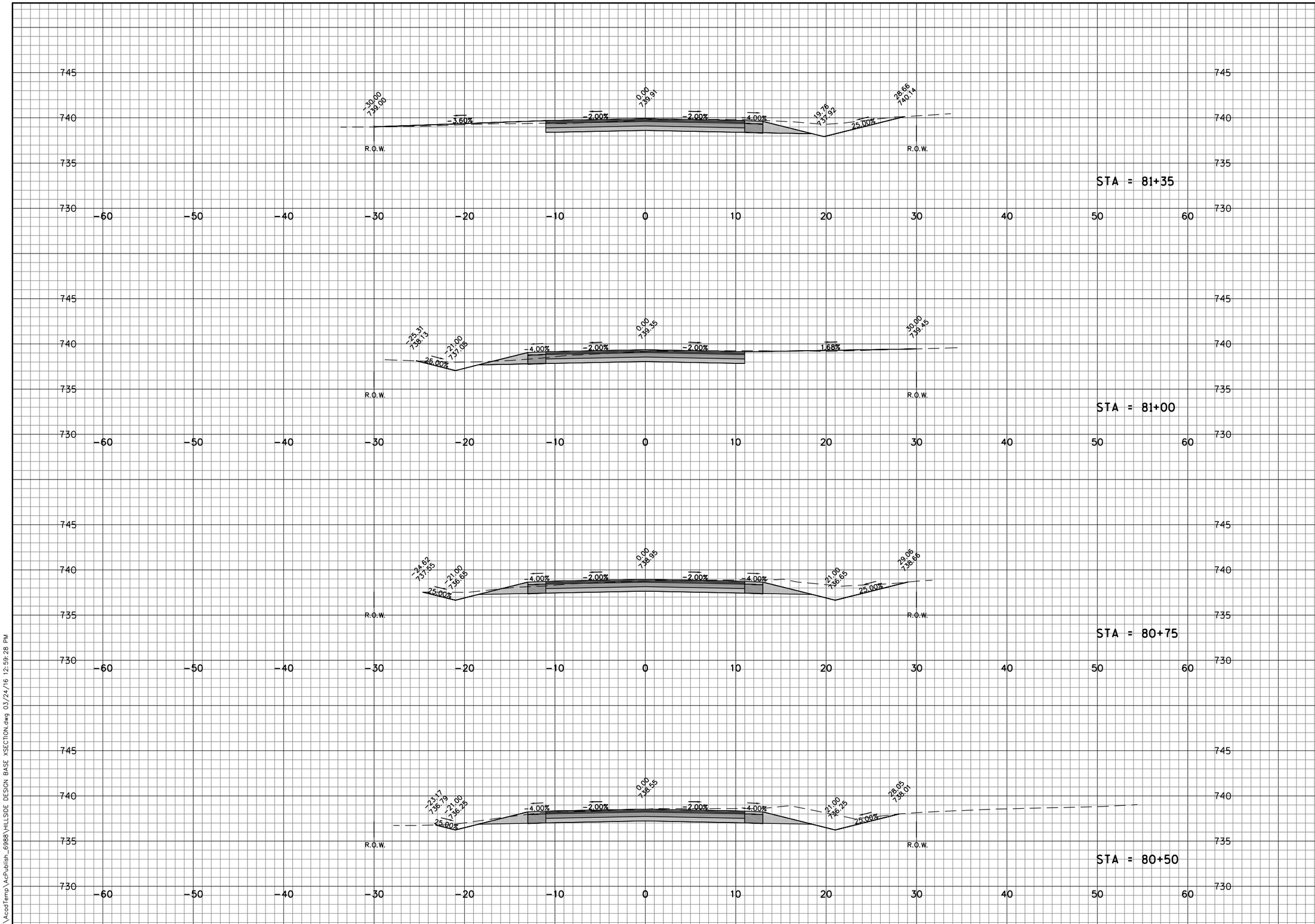


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TOWN OF BUCHANAN
2016 PAVING-DRAINAGE IMPROVEMENTS
CONTRACT A-16
HILLSIDE DRIVE CROSS SECTIONS

SHEET NO.
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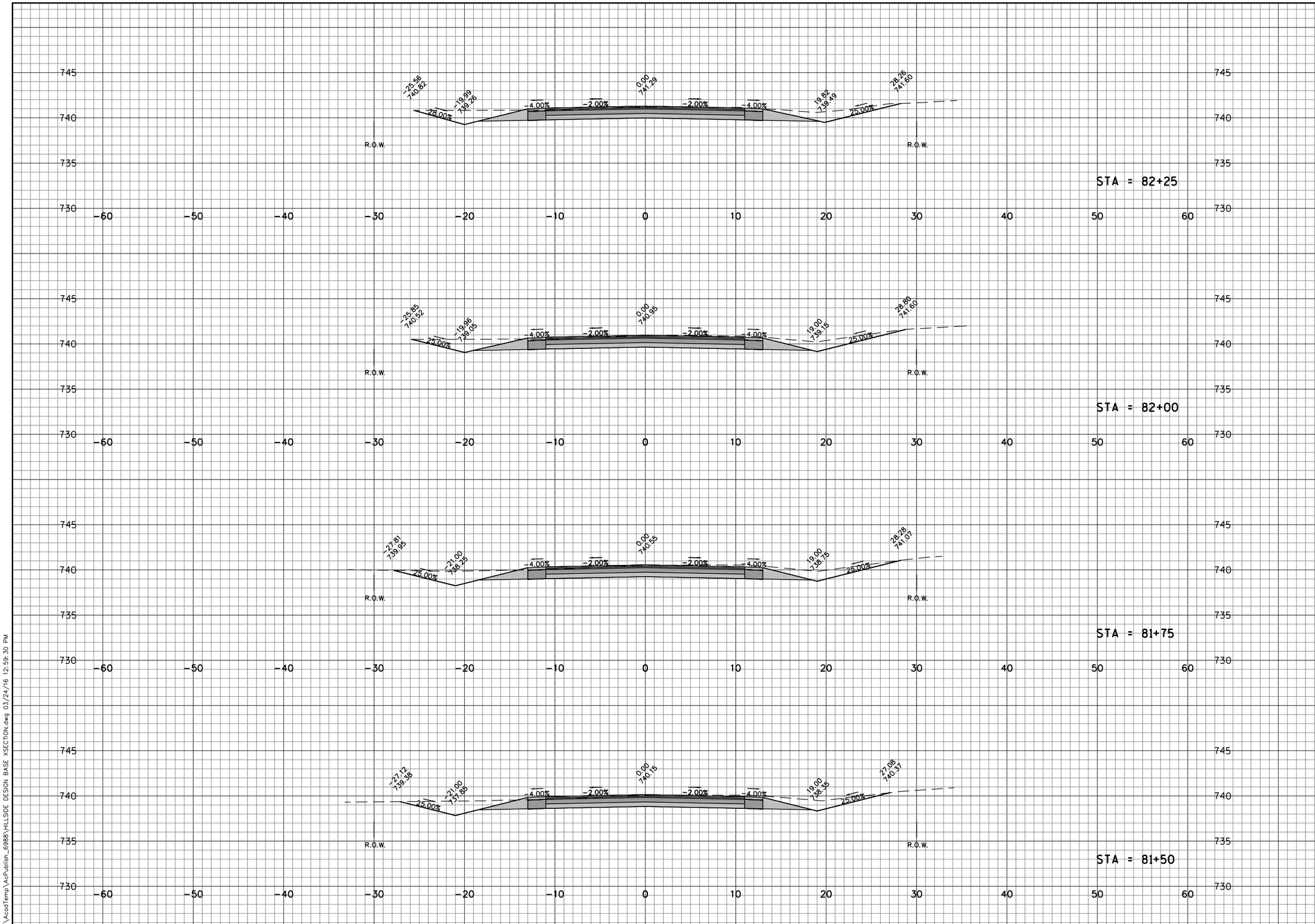


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TOWN OF BUCHANAN
2016 PAVING-DRAINAGE IMPROVEMENTS
CONTRACT A-16
HILLSIDE DRIVE CROSS SECTIONS




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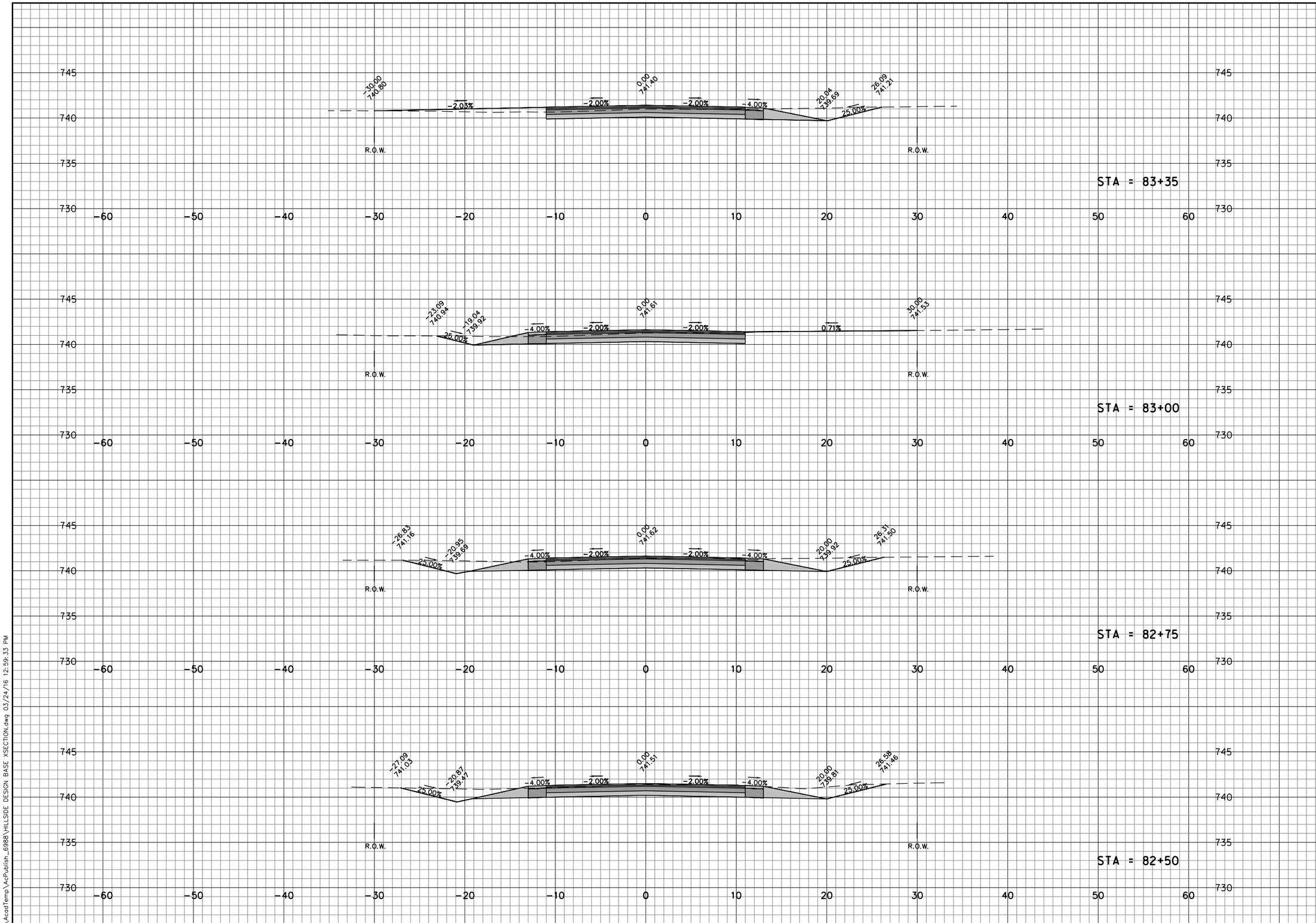


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# TOWN OF BUCHANAN
## 2016 PAVING-DRAINAGE IMPROVEMENTS
## CONTRACT A-16
## HILLSIDE DRIVE CROSS SECTIONS

SHEET NO.



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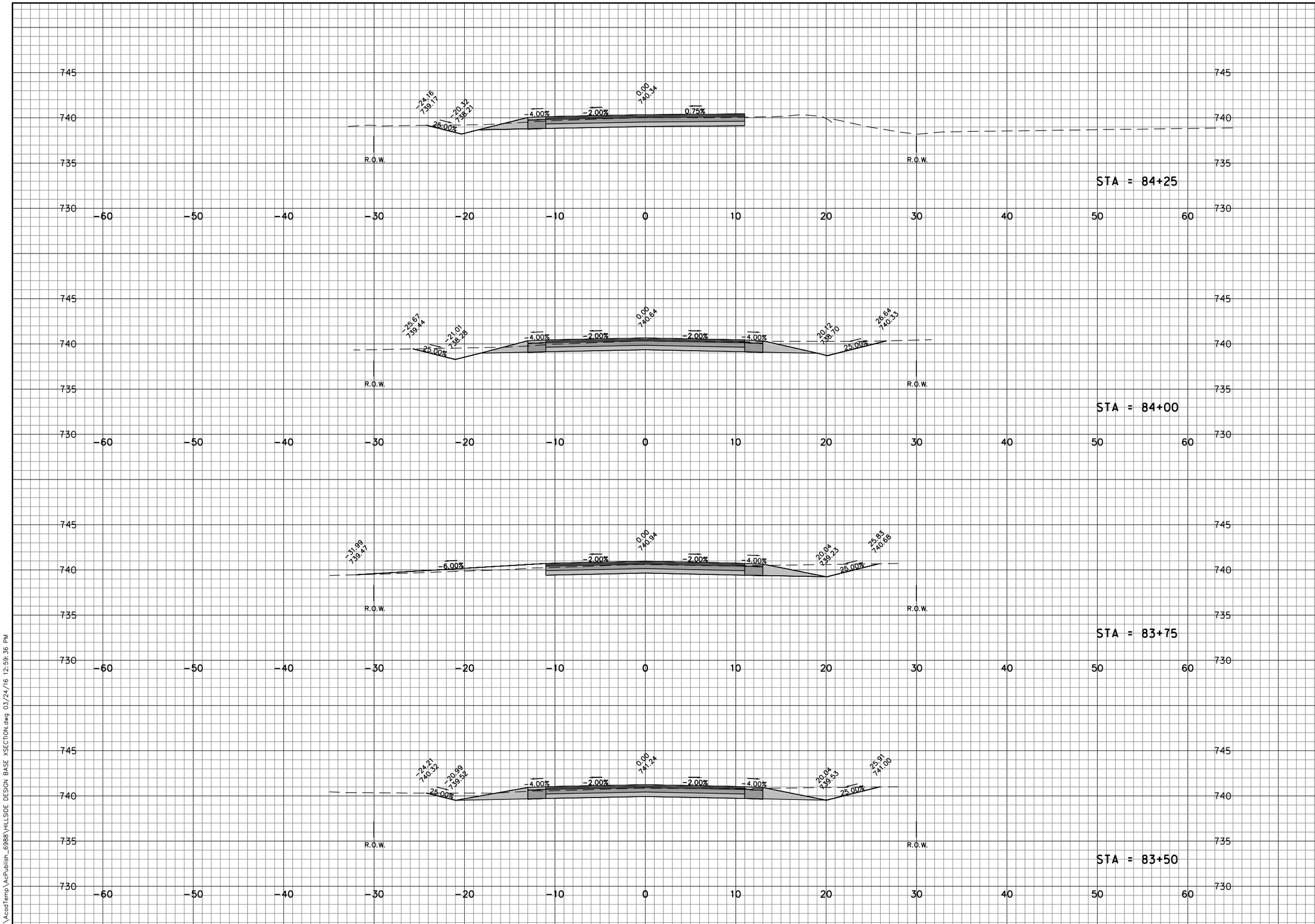


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TOWN OF BUCHANAN
2016 PAVING-DRAINAGE IMPROVEMENTS
CONTRACT A-16
HILLSIDE DRIVE CROSS SECTIONS

SHEET NO.
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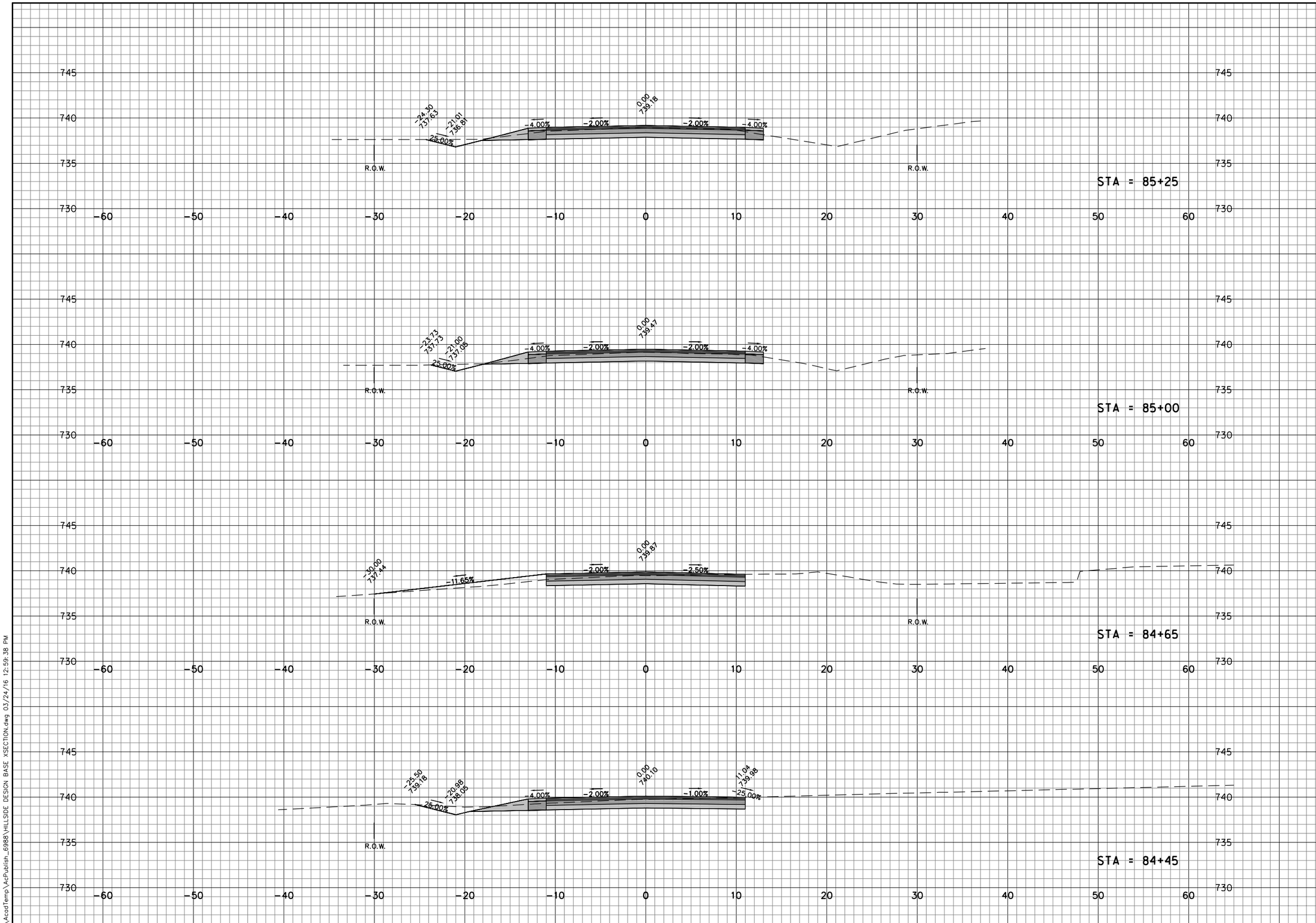


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# TOWN OF BUCHANAN
## 2016 PAVING-DRAINAGE IMPROVEMENTS
## CONTRACT A-16
## HILLSIDE DRIVE CROSS SECTIONS

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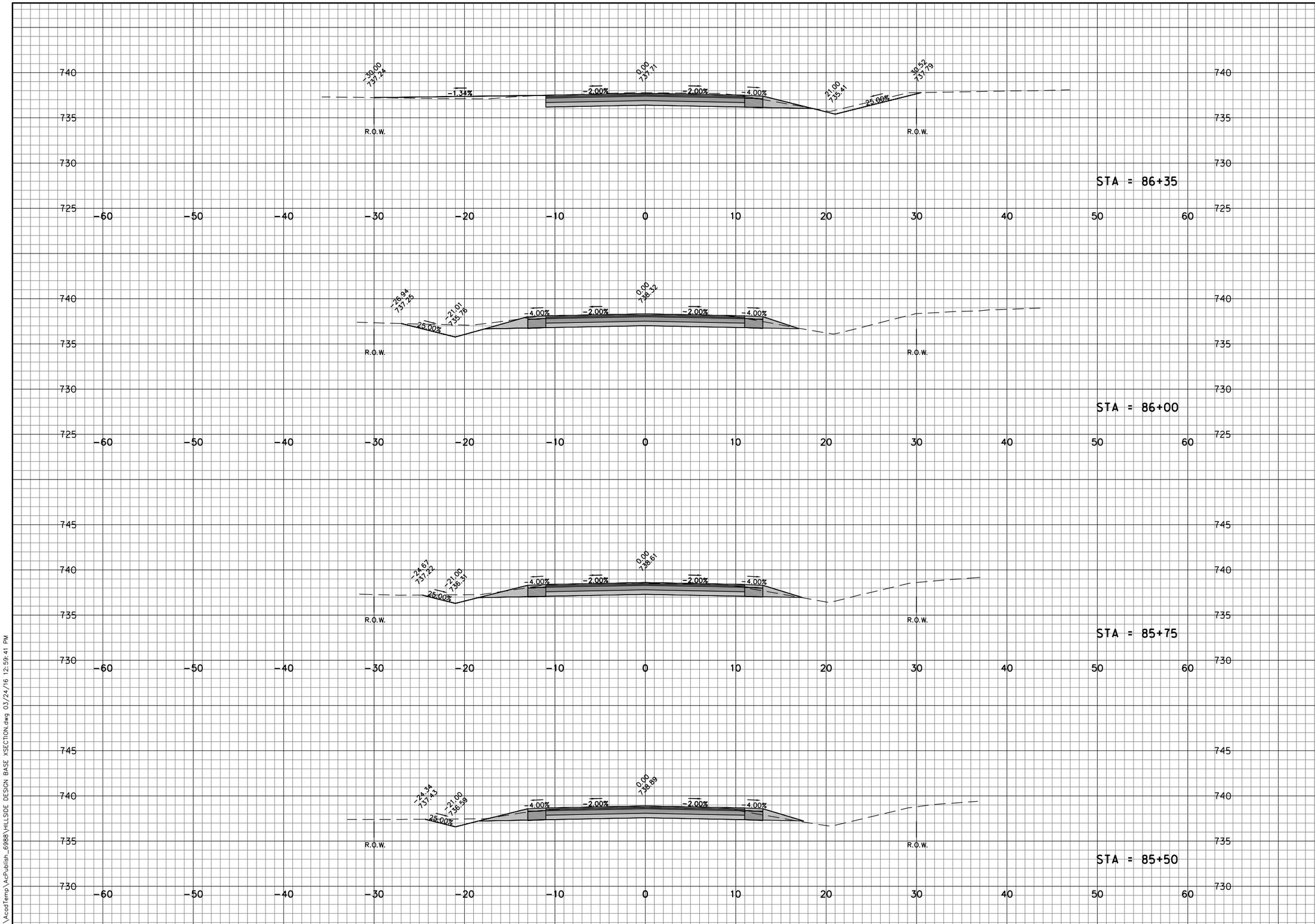


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TOWN OF BUCHANAN
2016 PAVING-DRAINAGE IMPROVEMENTS
CONTRACT A-16
HILLSIDE DRIVE CROSS SECTIONS

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22 OF 40

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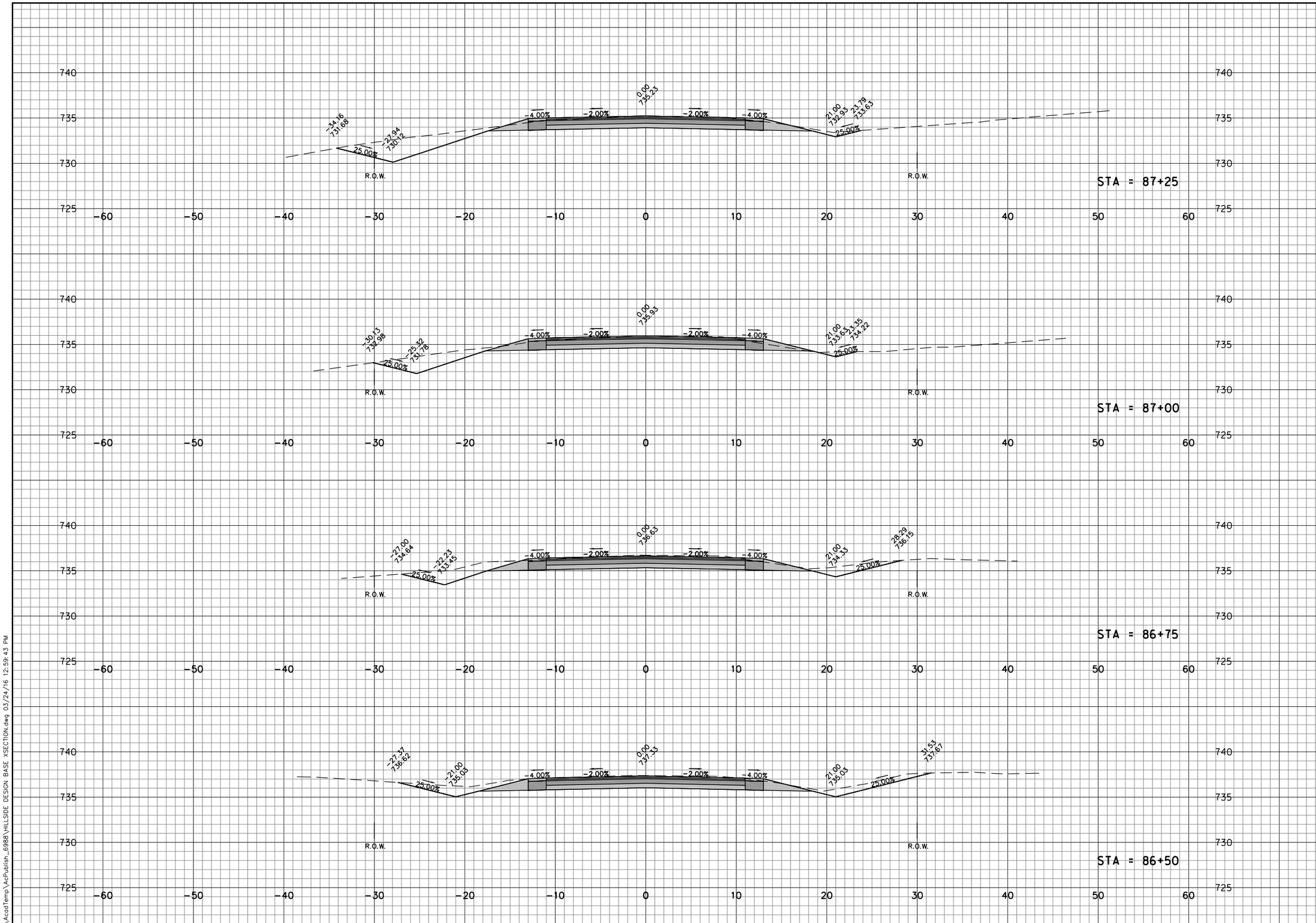


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TOWN OF BUCHANAN
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CONTRACT A-16
HILLSIDE DRIVE CROSS SECTIONS

SHEET NO.
23 OF 40

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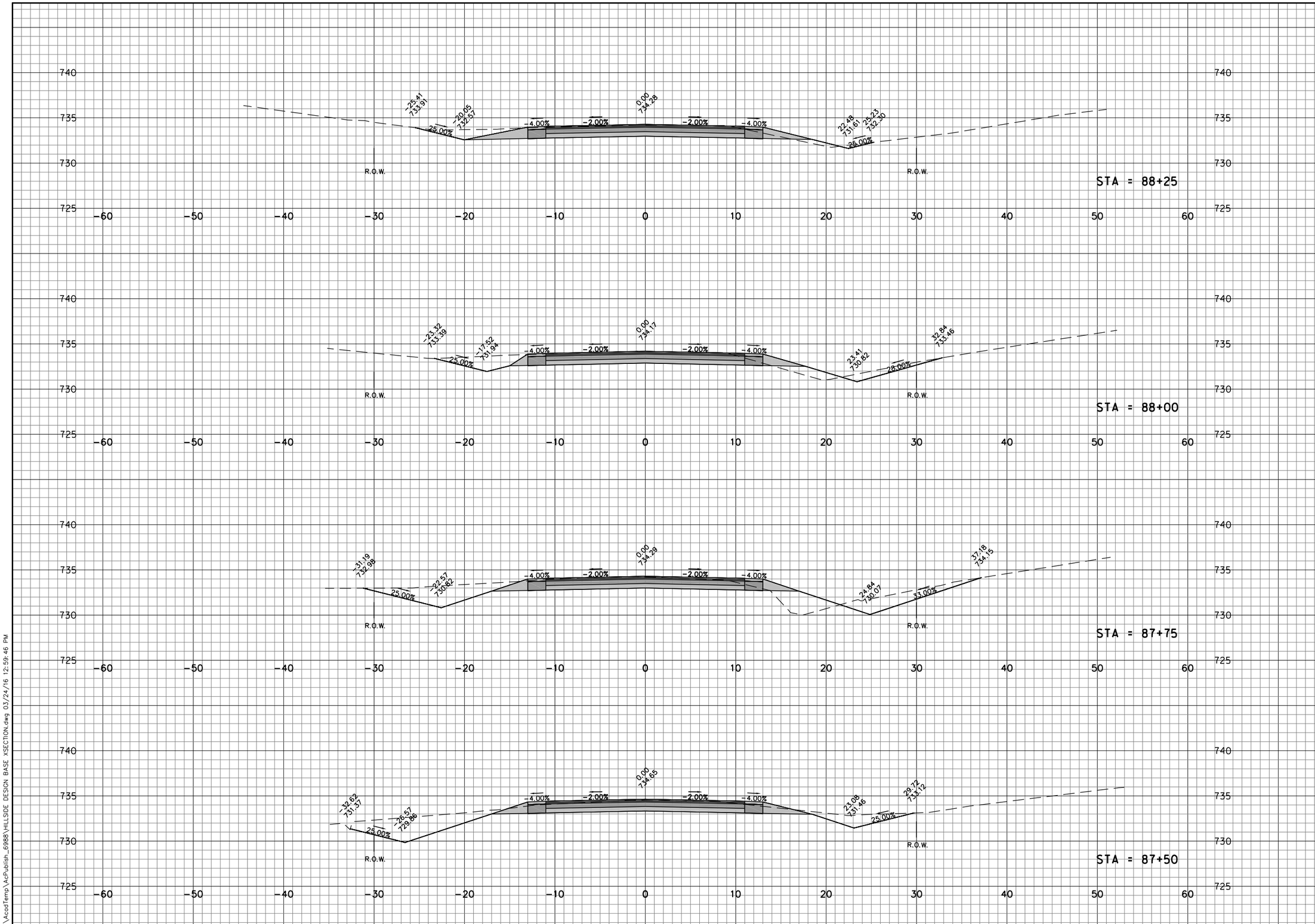


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# TOWN OF BUCHANAN
## 2016 PAVING-DRAINAGE IMPROVEMENTS
## CONTRACT A-16
## HILLSIDE DRIVE CROSS SECTIONS

SHEET NO.

24 OF 40

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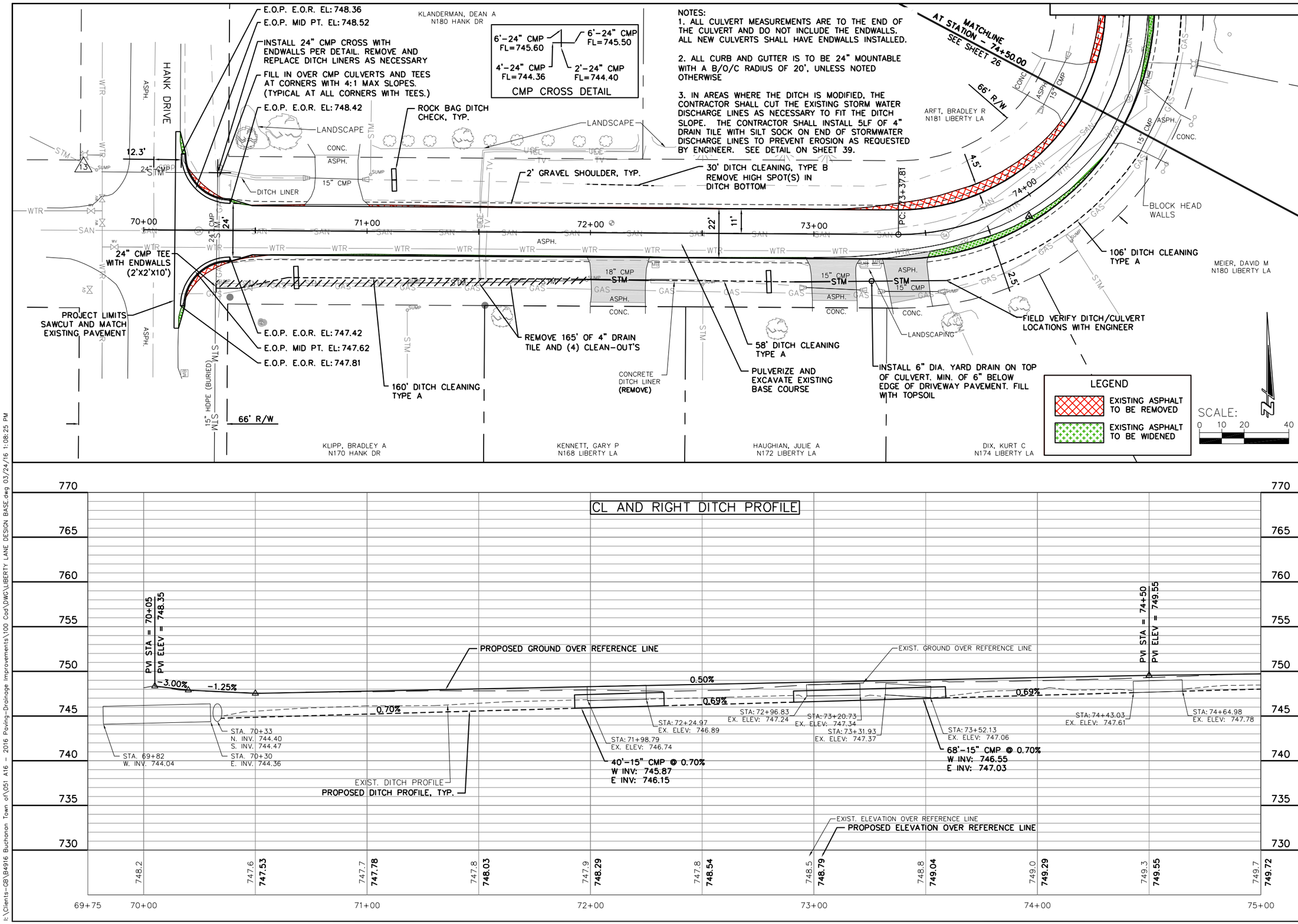


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| JOB NO. | 4916-0051 |
| BOOK NO. | |
| DRAWN BY | KLJ |
| CHECKED BY | TMM |
| DATE | 12/23/15 |
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TOWN OF BUCHANAN
2016 PAVING-DRAINAGE IMPROVEMENTS
CONTRACT NO. "A-16"
LIBERTY LANE IMPROVEMENTS




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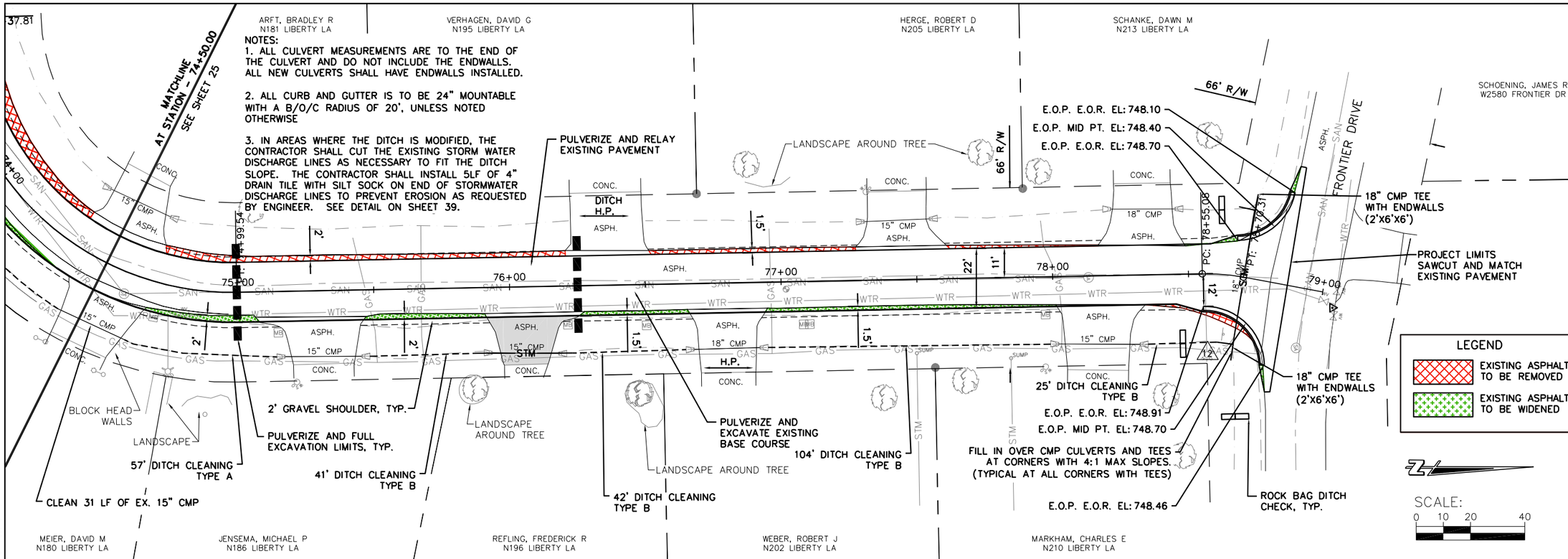
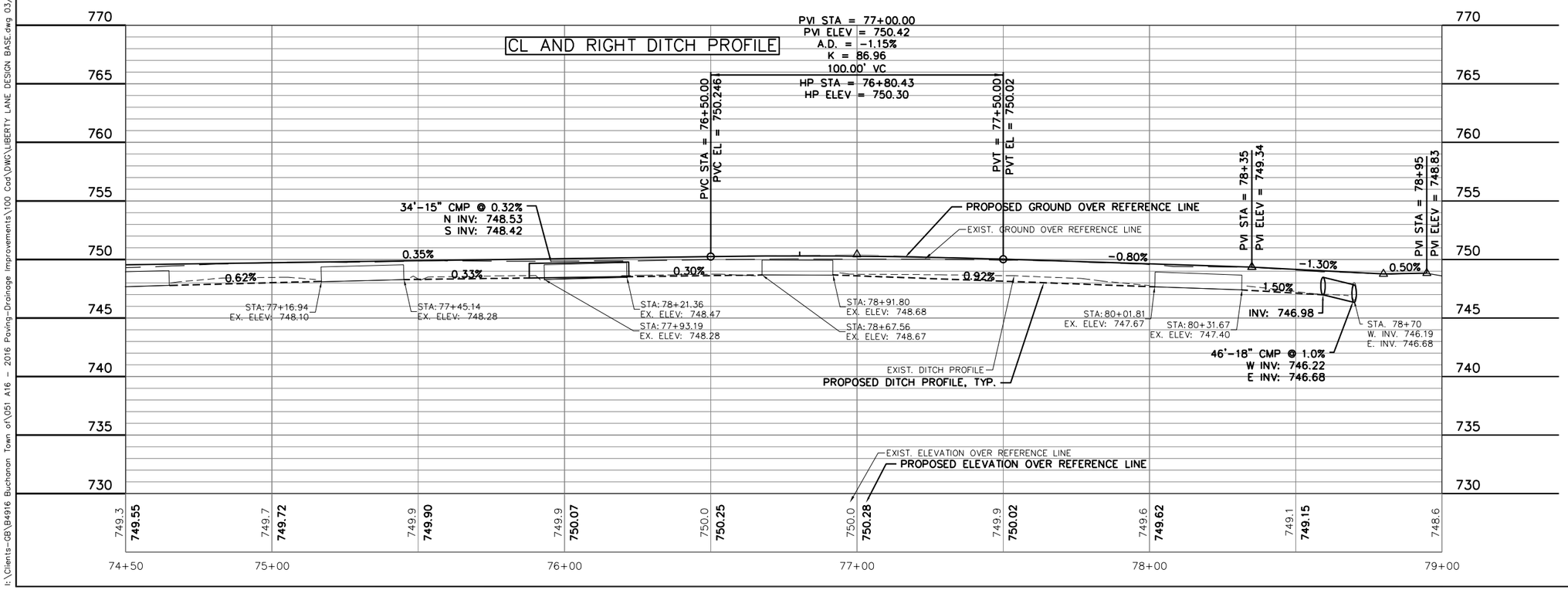
NOTES:
1. ALL CULVERT MEASUREMENTS ARE TO THE END OF THE CULVERT AND DO NOT INCLUDE THE ENDWALLS. ALL NEW CULVERTS SHALL HAVE ENDWALLS INSTALLED.

2. ALL CURB AND GUTTER IS TO BE 24" MOUNTABLE WITH A B/O/C RADIUS OF 20', UNLESS NOTED OTHERWISE

3. IN AREAS WHERE THE DITCH IS MODIFIED, THE CONTRACTOR SHALL CUT THE EXISTING STORM WATER DISCHARGE LINES AS NECESSARY TO FIT THE DITCH SLOPE. THE CONTRACTOR SHALL INSTALL 5LF OF 4" DRAIN TILE WITH SILT SOCK ON END OF STORMWATER DISCHARGE LINES TO PREVENT EROSION AS REQUESTED BY ENGINEER. SEE DETAIL ON SHEET 39.

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# TOWN OF BUCHANAN
## 2016 PAVING-DRAINAGE IMPROVEMENTS
## CONTRACT NO. "A-16"
## LIBERTY LANE IMPROVEMENTS




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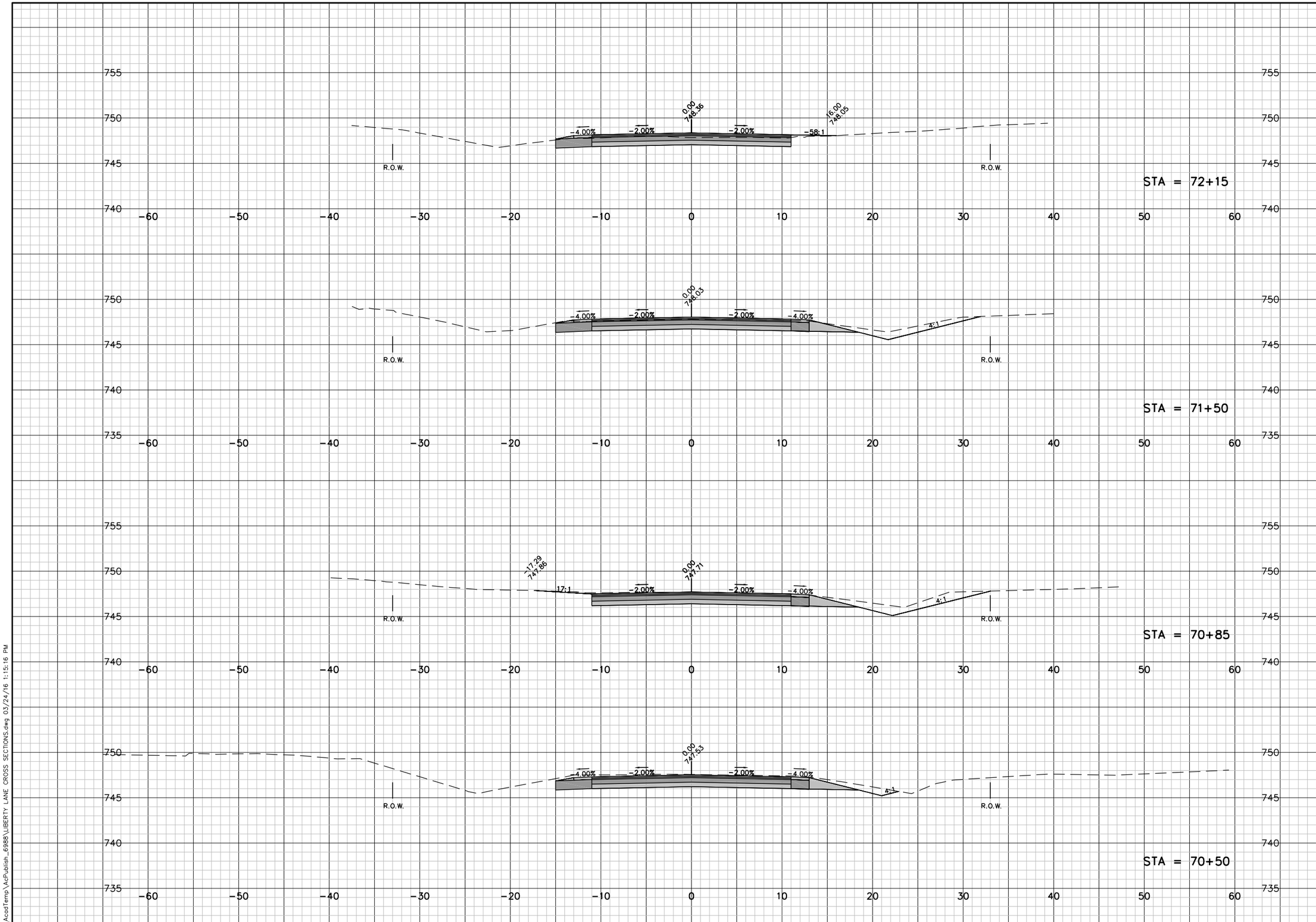


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TOWN OF BUCHANAN
2016 PAVING-DRAINAGE IMPROVEMENTS
CONTRACT A-16
LIBERTY LANE CROSS SECTIONS




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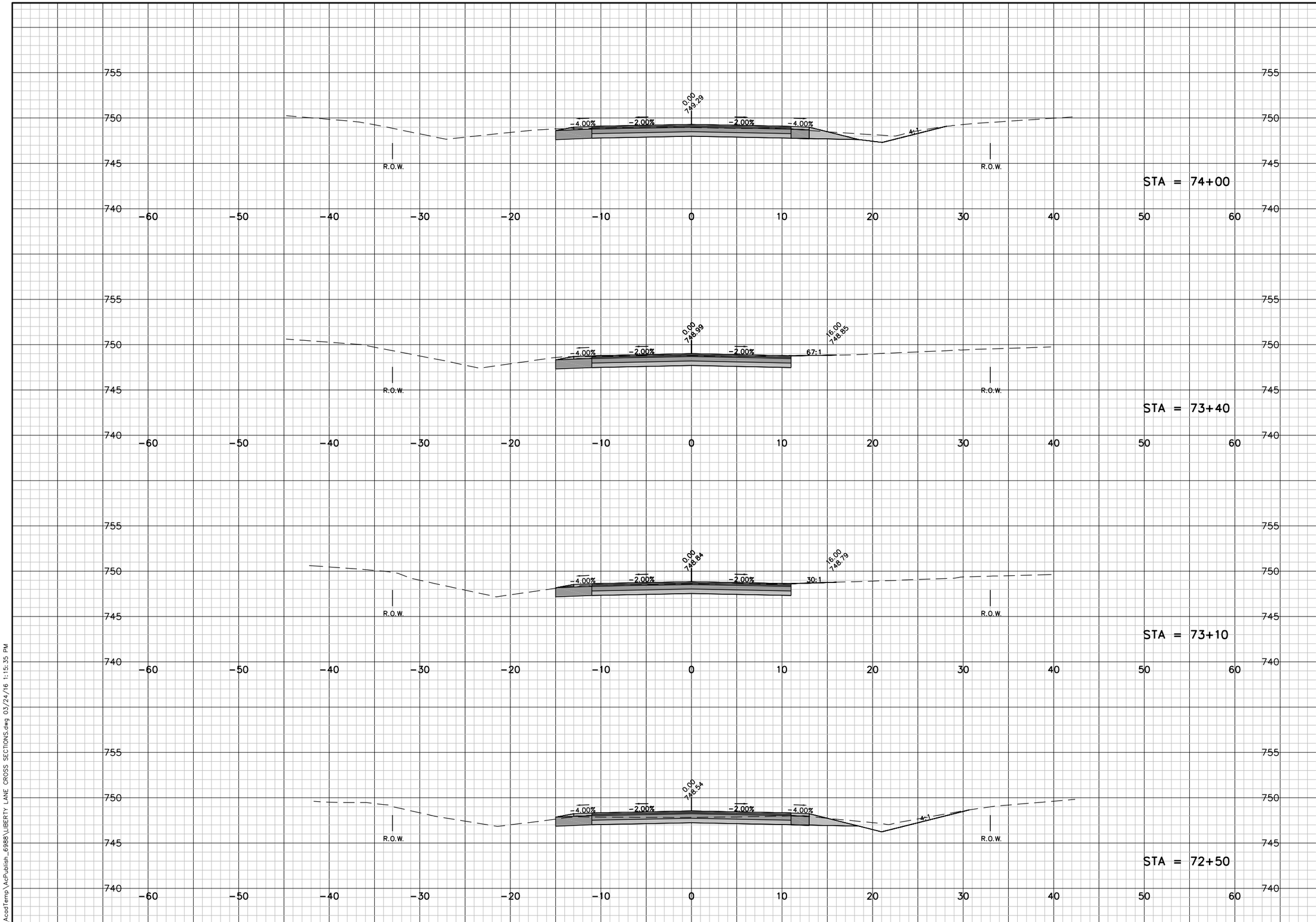


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TOWN OF BUCHANAN
2016 PAVING-DRAINAGE IMPROVEMENTS
CONTRACT A-16
LIBERTY LANE CROSS SECTIONS

SHEET NO.
28 OF 40

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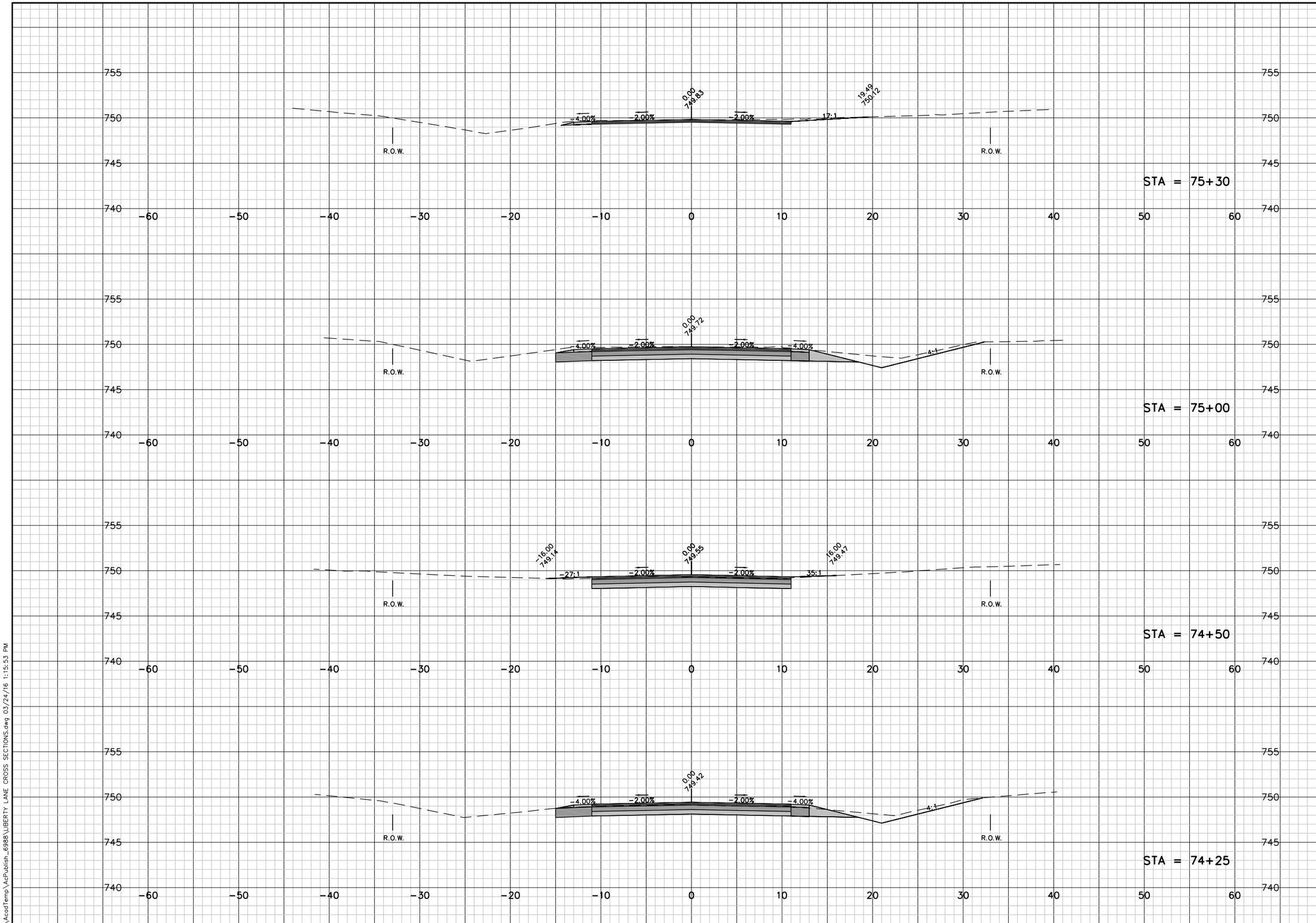


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TOWN OF BUCHANAN
2016 PAVING-DRAINAGE IMPROVEMENTS
CONTRACT A-16
LIBERTY LANE CROSS SECTIONS

SHEET NO.
29 OF 40

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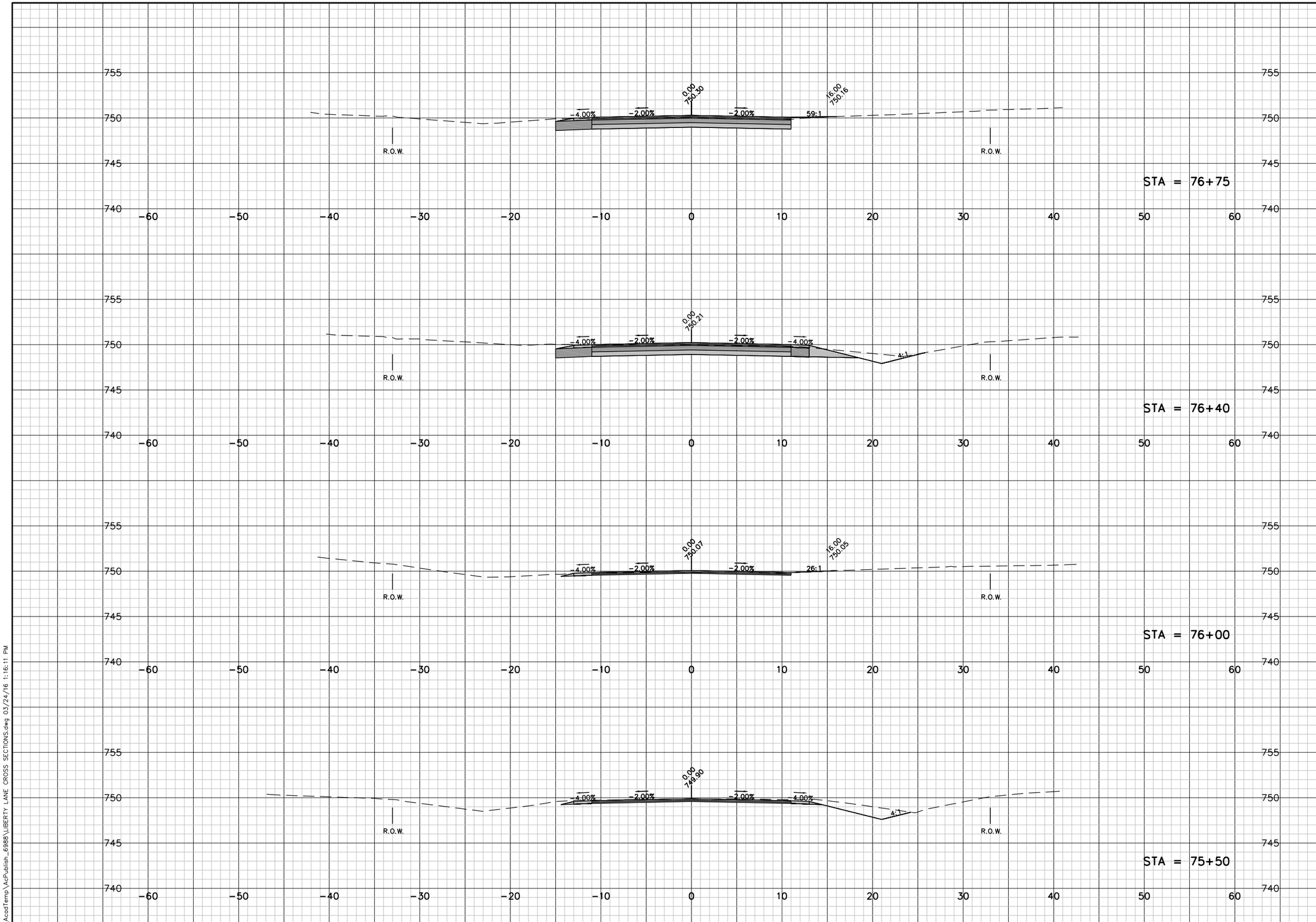


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TOWN OF BUCHANAN
2016 PAVING-DRAINAGE IMPROVEMENTS
CONTRACT A-16
LIBERTY LANE CROSS SECTIONS

SHEET NO.
30 OF 40

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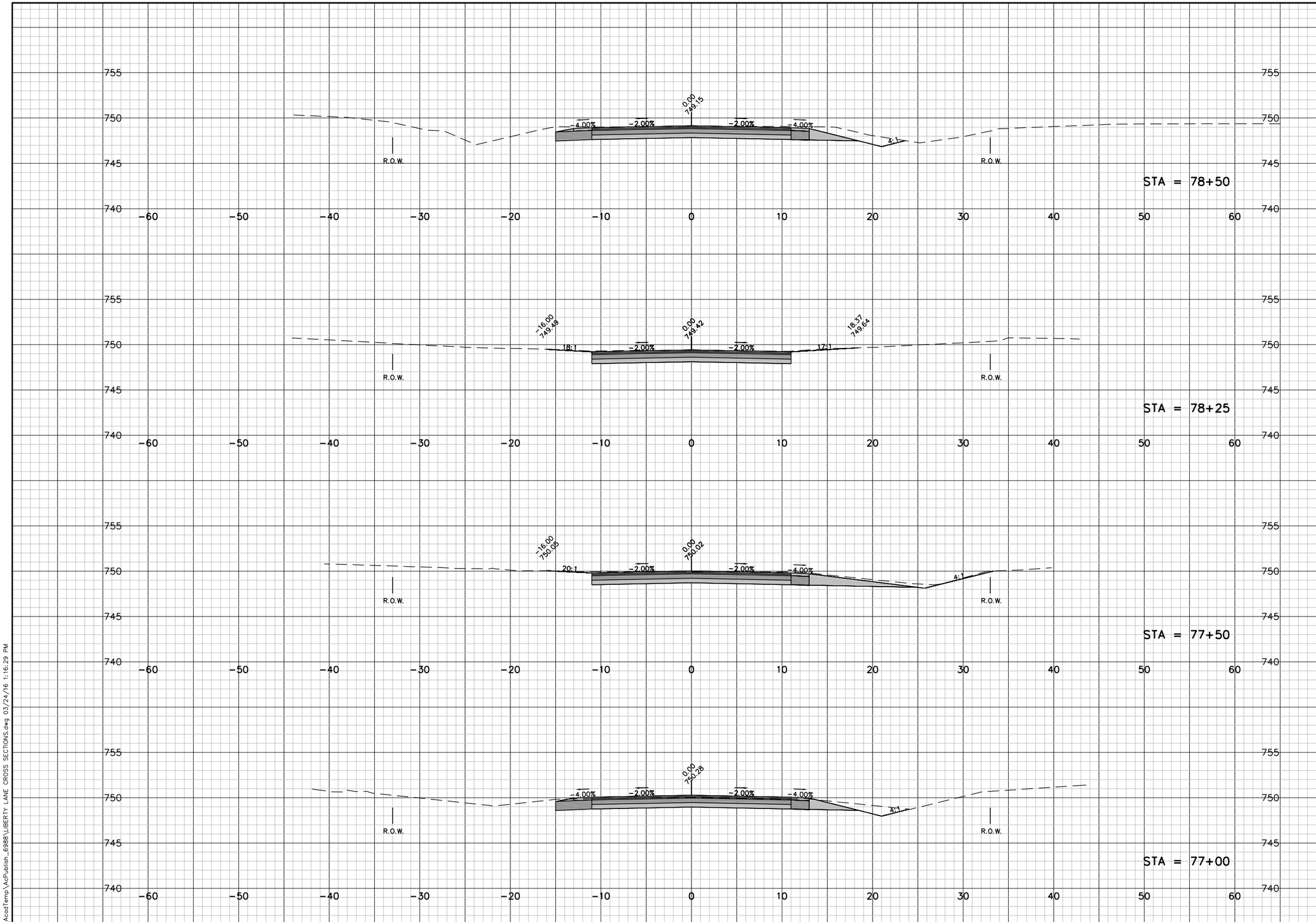


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TOWN OF BUCHANAN
2016 PAVING-DRAINAGE IMPROVEMENTS
CONTRACT A-16
LIBERTY LANE CROSS SECTIONS

SHEET NO.
31 OF 40

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NOTES:
1. ALL CULVERT MEASUREMENTS ARE TO THE END OF THE CULVERT AND DO NOT INCLUDE THE ENDWALLS. ALL NEW CULVERTS SHALL HAVE ENDWALLS INSTALLED.

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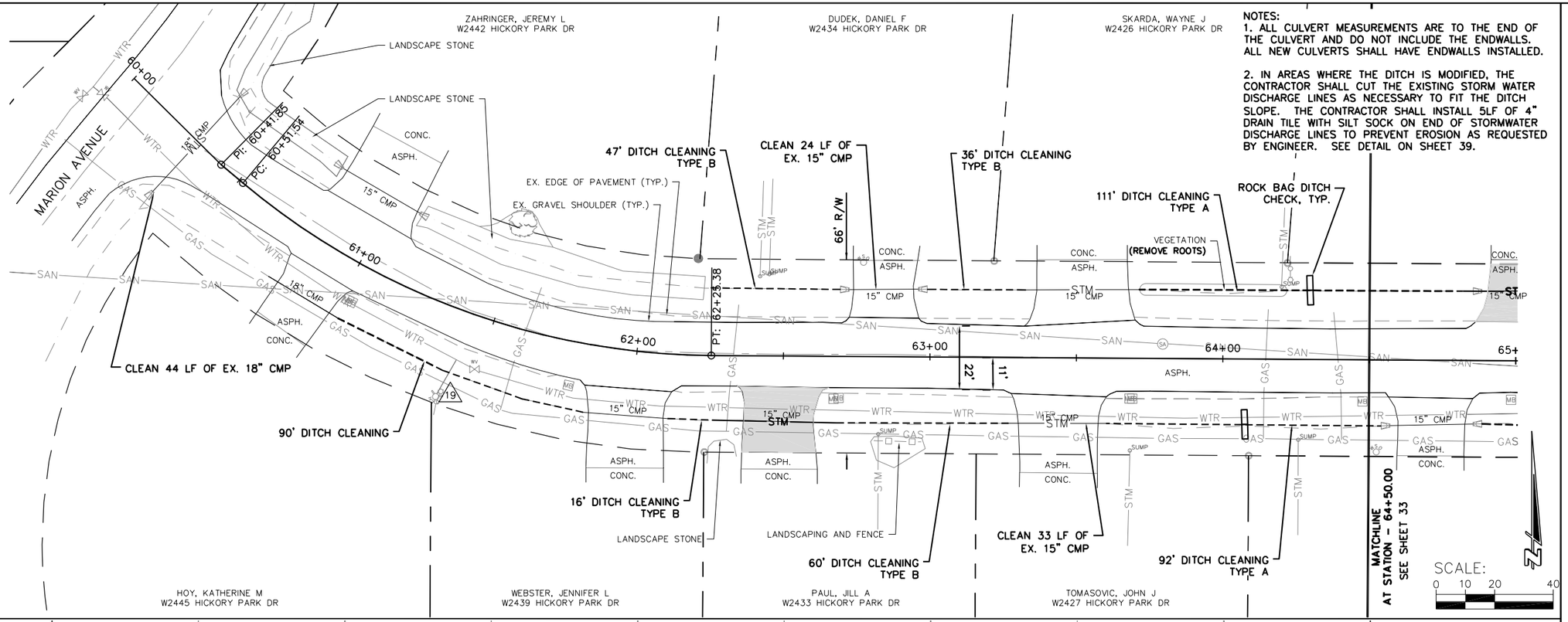


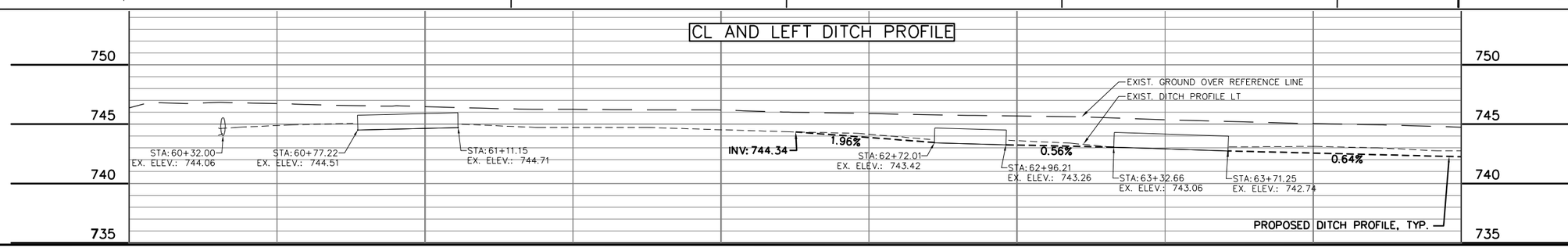


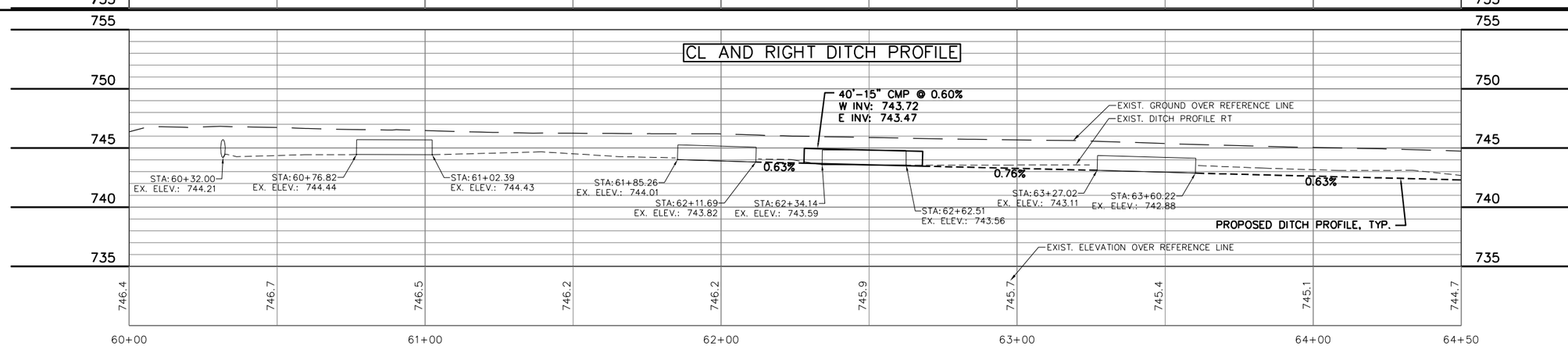


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| JOB NO. | 4916-0051 |
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TOWN OF BUCHANAN
2016 PAVING-DRAINAGE IMPROVEMENTS
CONTRACT NO. "A-16"
HICKORY PARK DRIVE IMPROVEMENTS

SHEET NO.
32 OF 40


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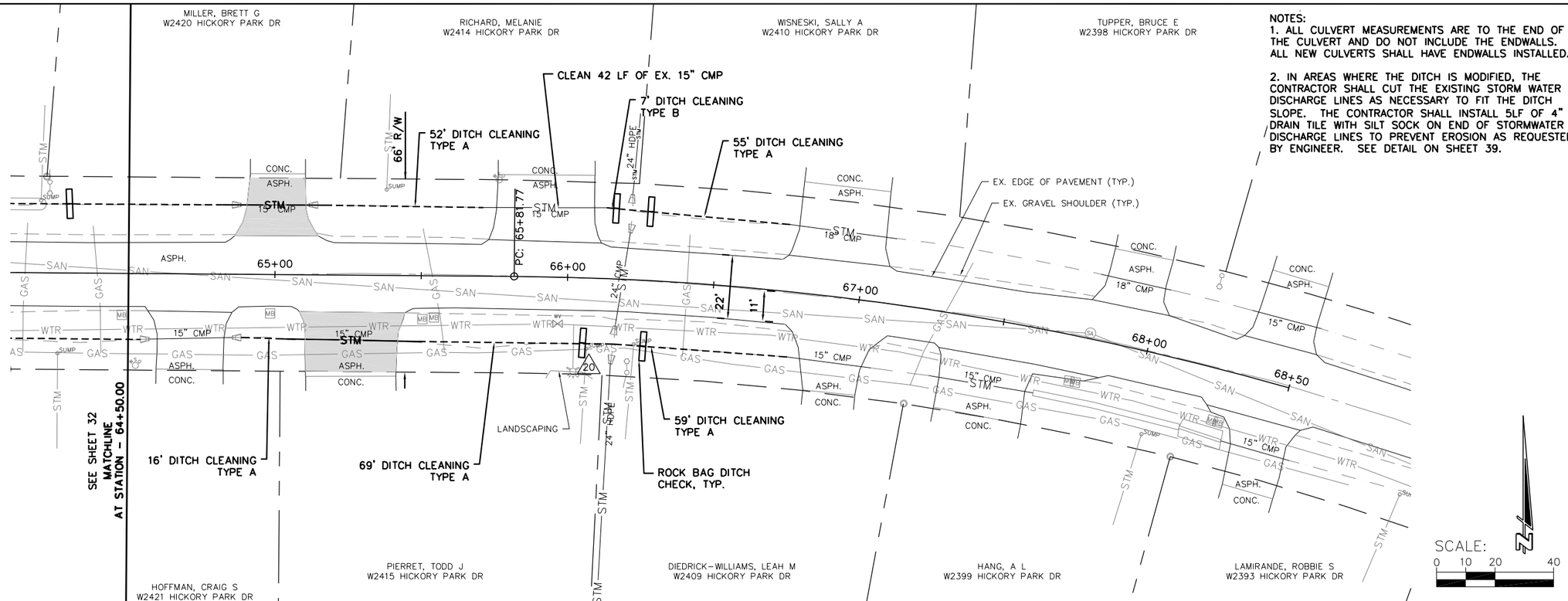


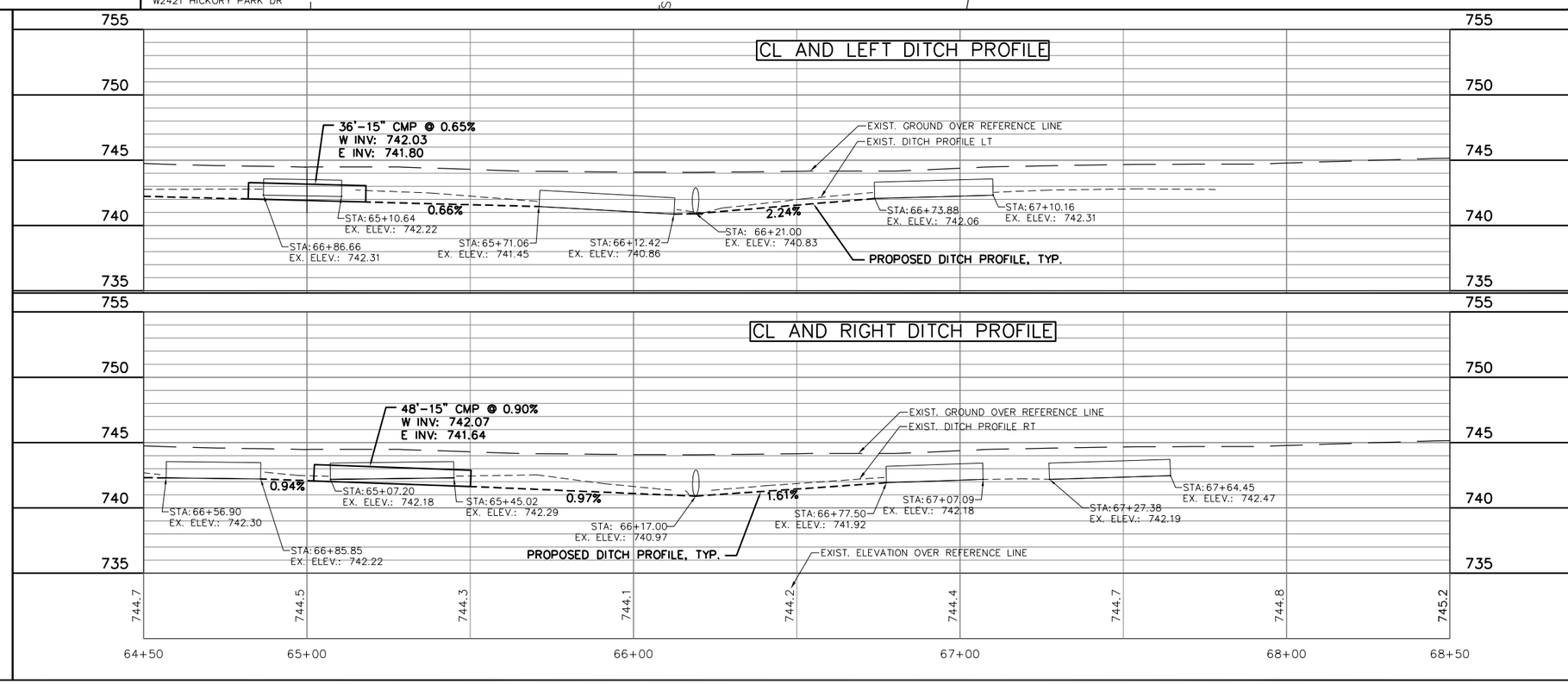


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TOWN OF BUCHANAN
2016 PAVING-DRAINAGE IMPROVEMENTS
CONTRACT NO. "A-16"
HICKORY PARK DRIVE IMPROVEMENTS




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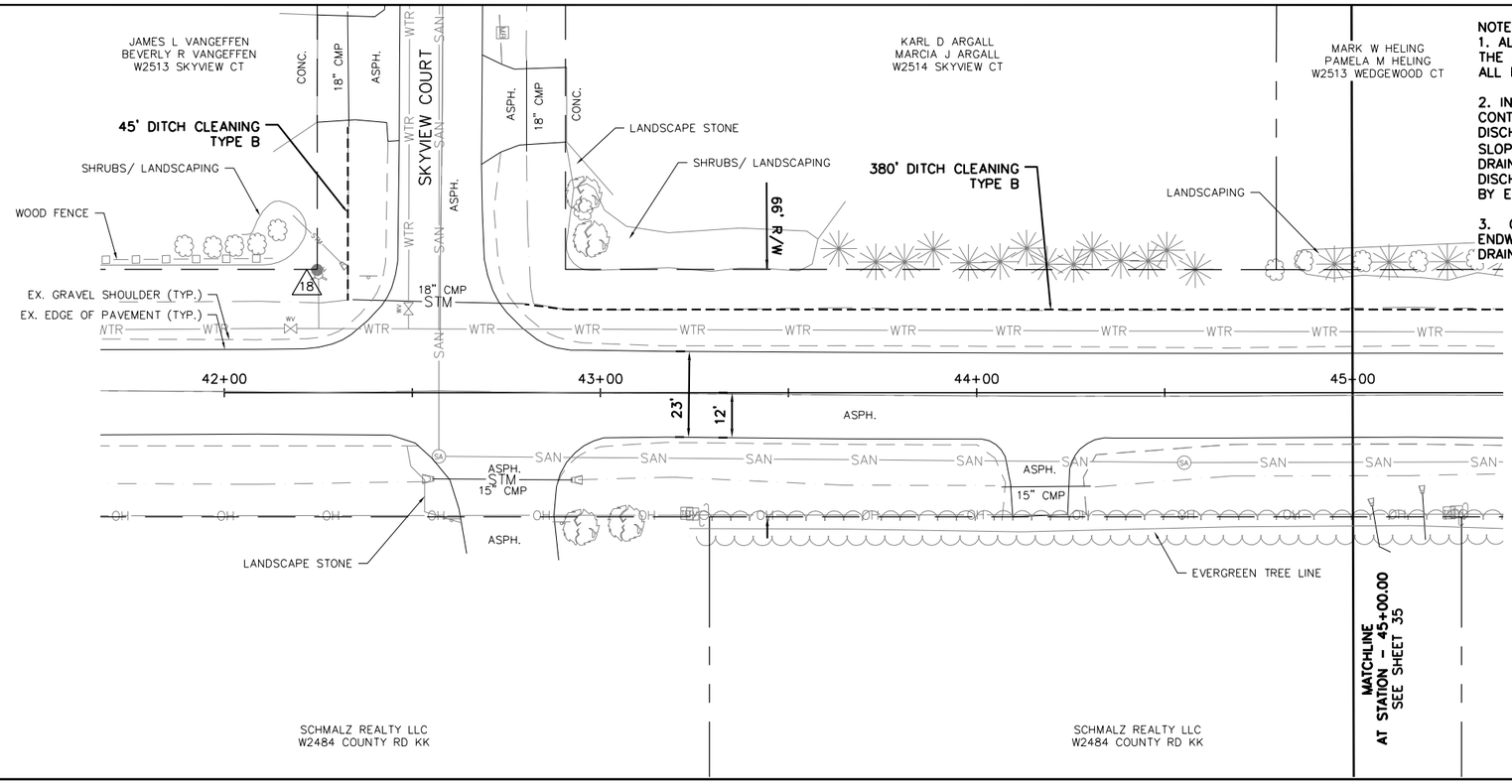


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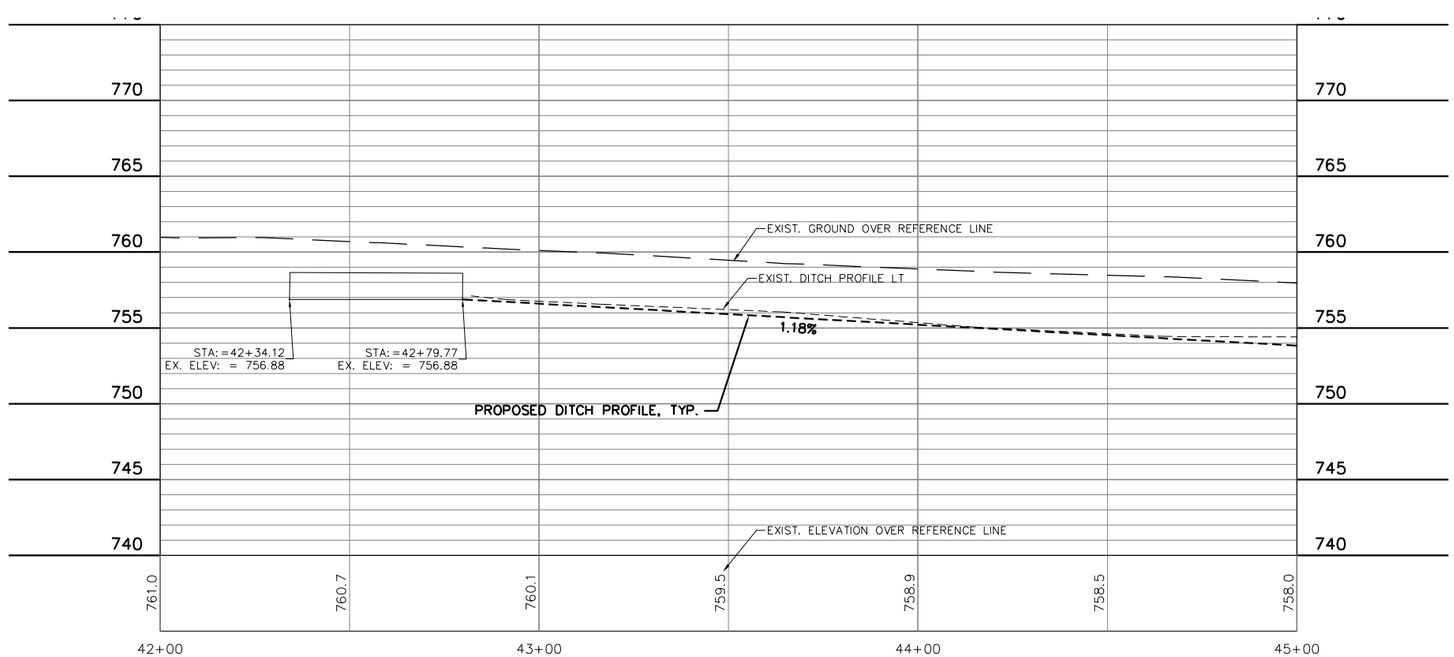
3. CONTRACTOR SHALL RE-SHAPE DITCHES AT ENDWALLS TO PROVIDE ADEQUATE STORMWATER DRAINAGE TO AND FROM EXISTING DITCHES.

CL AND LEFT DITCH PROFILE

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TOWN OF BUCHANAN
2016 PAVING-DRAINAGE IMPROVEMENTS
CONTRACT NO. "A-16"
HOPFENSPERGER ROAD IMPROVEMENTS

SHEET NO.
34 OF 40


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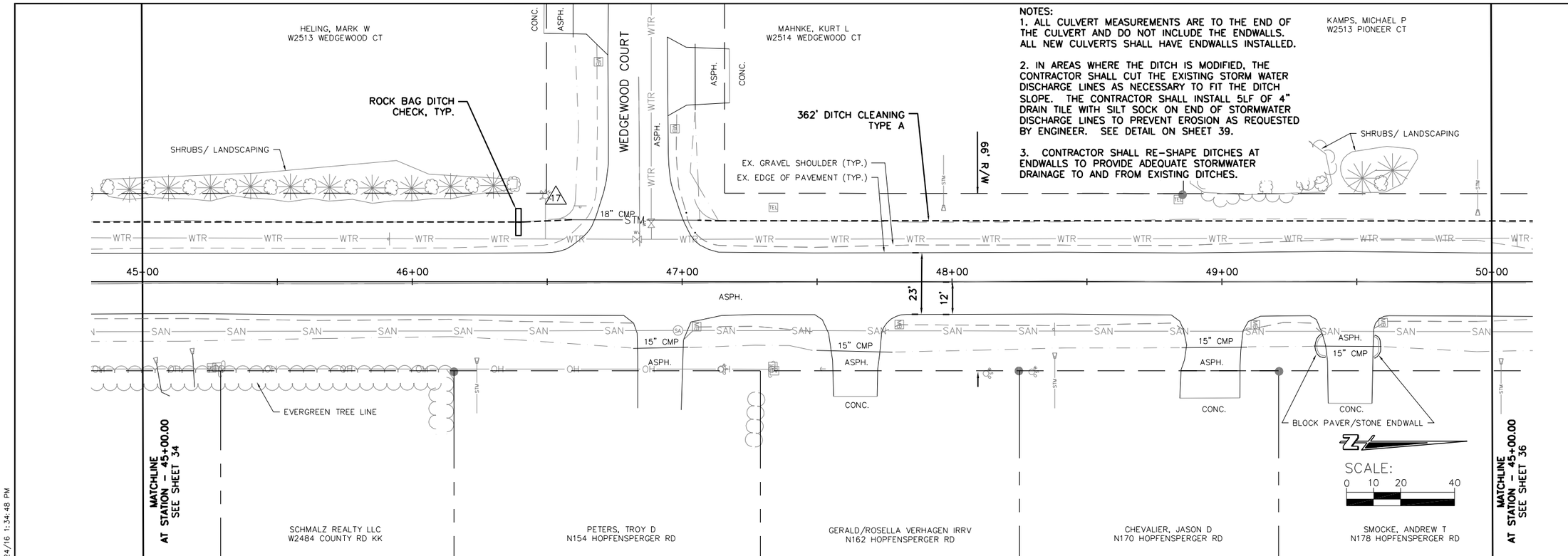


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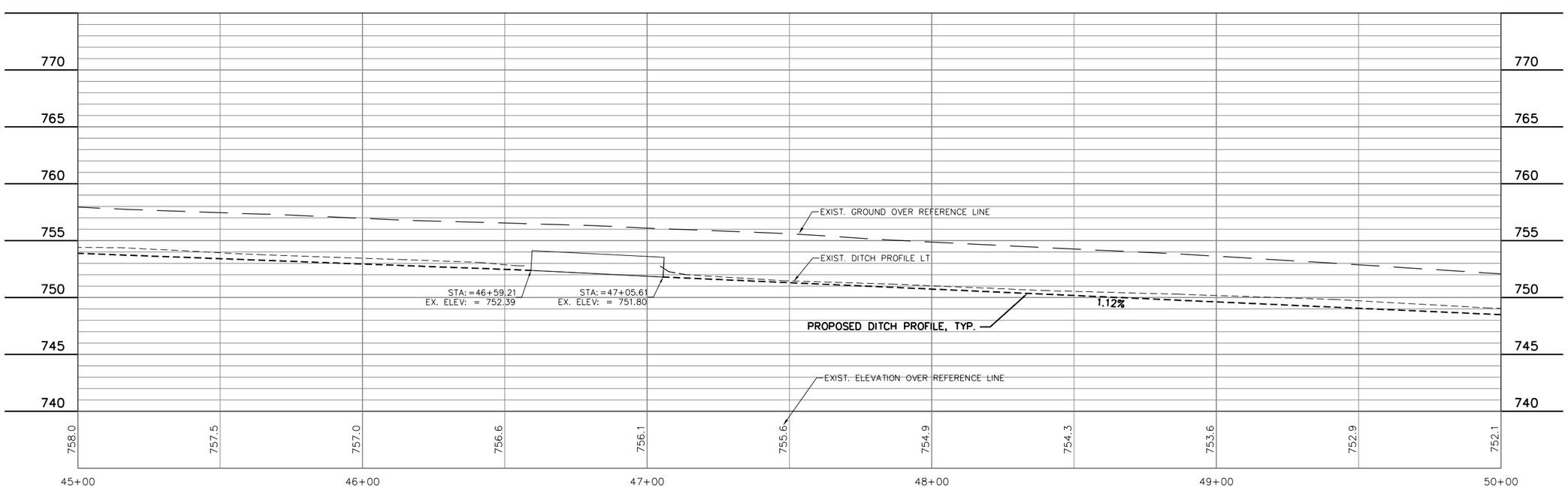
## CL AND LEFT DITCH PROFILE

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TOWN OF BUCHANAN
2016 PAVING-DRAINAGE IMPROVEMENTS
CONTRACT NO. "A-16"
HOPFENSPERGER ROAD IMPROVEMENTS

SHEET NO.
35 OF 40


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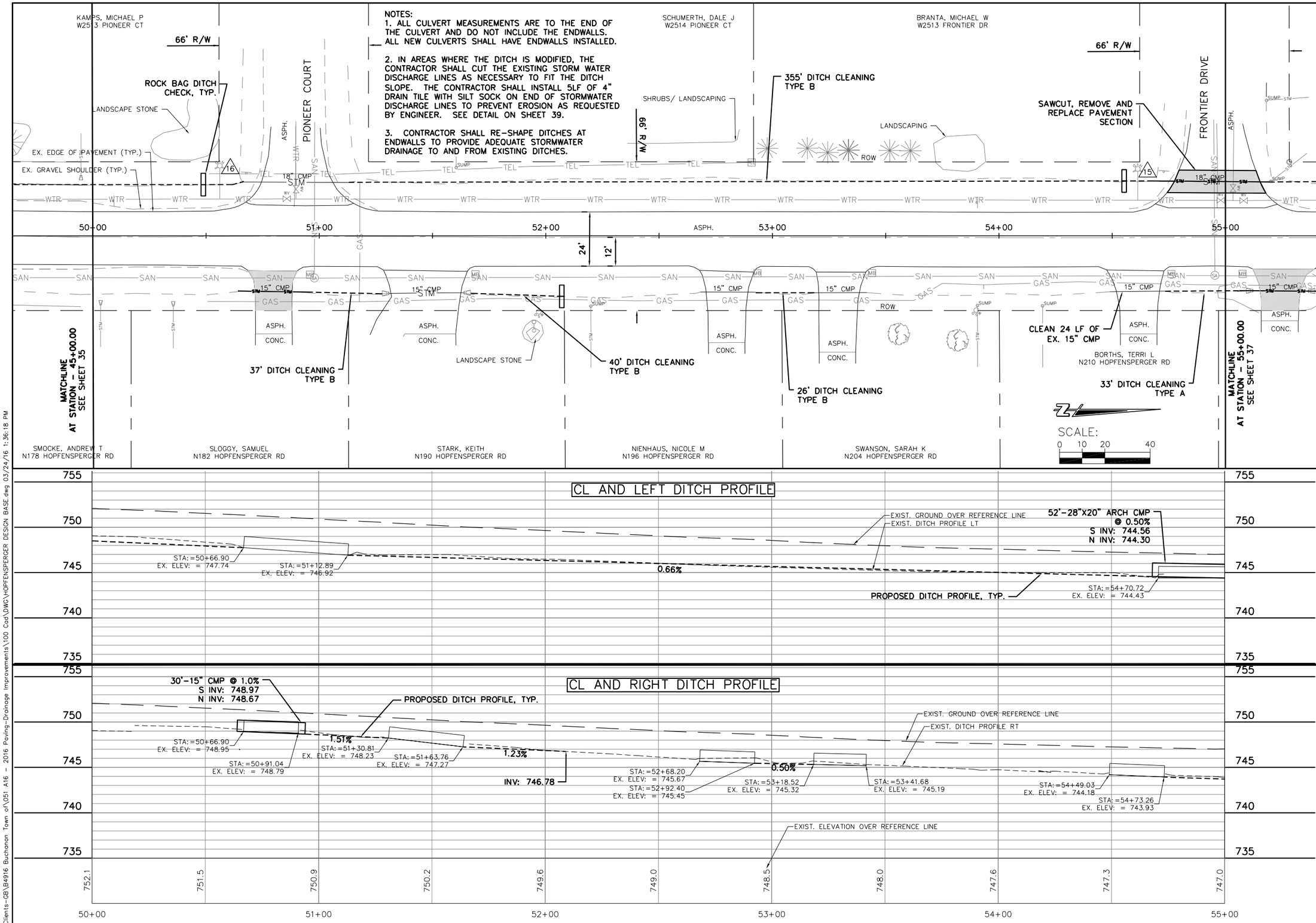


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# TOWN OF BUCHANAN
## 2016 PAVING-DRAINAGE IMPROVEMENTS
## CONTRACT NO. "A-16"
## HOPFENSPERGER ROAD IMPROVEMENTS

SHEET NO.
36 OF 40

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NOTES:
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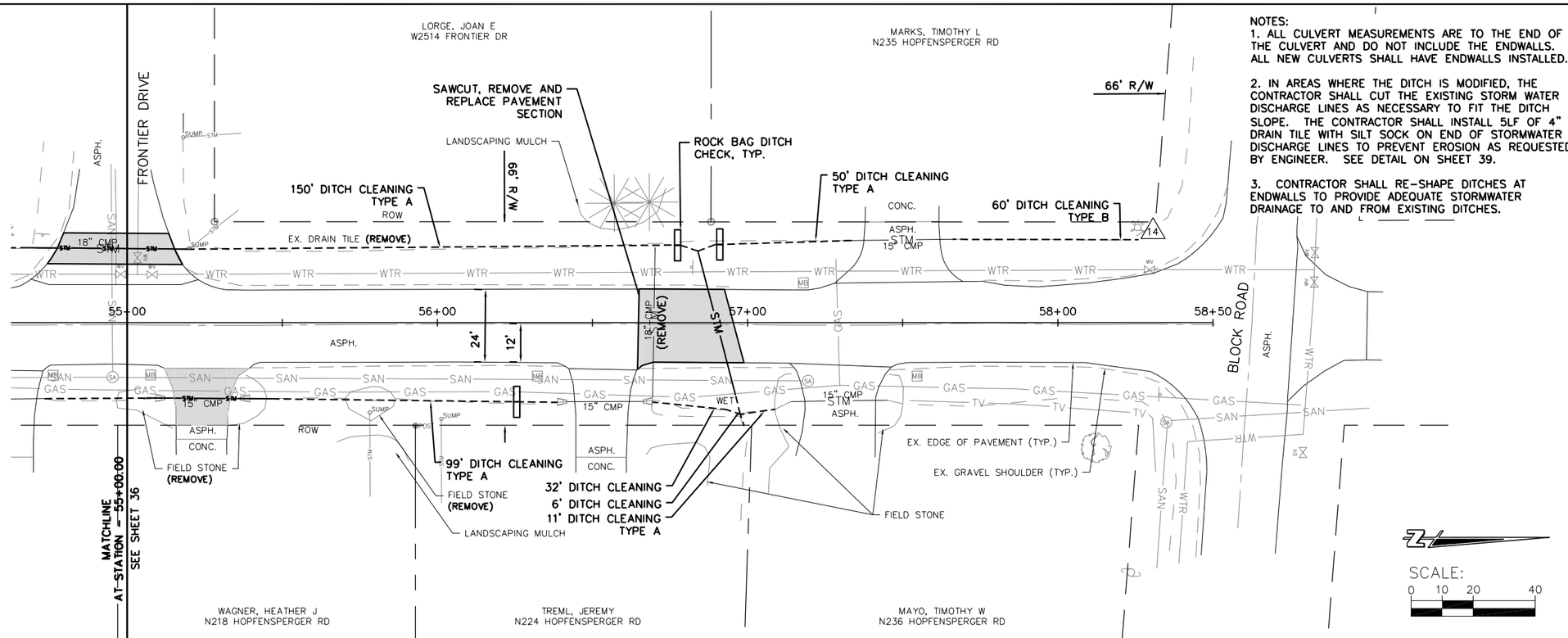
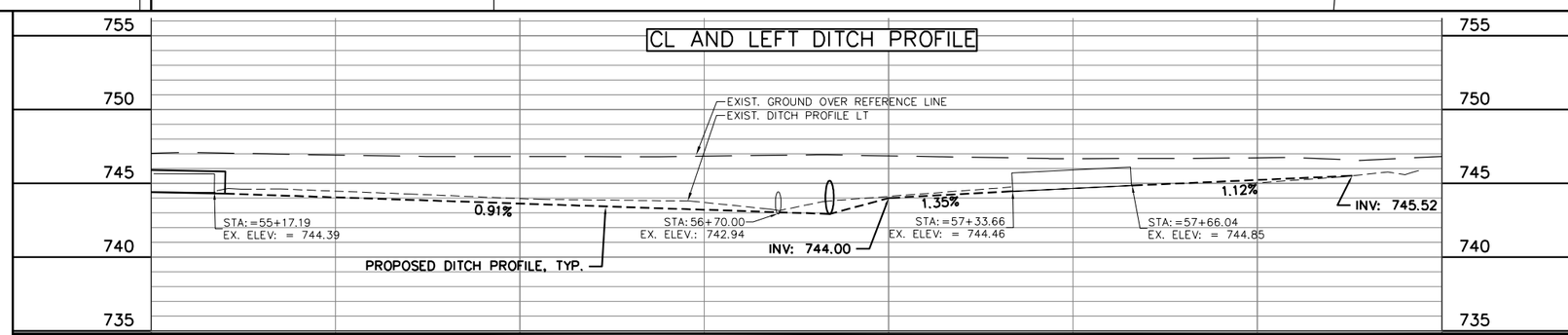
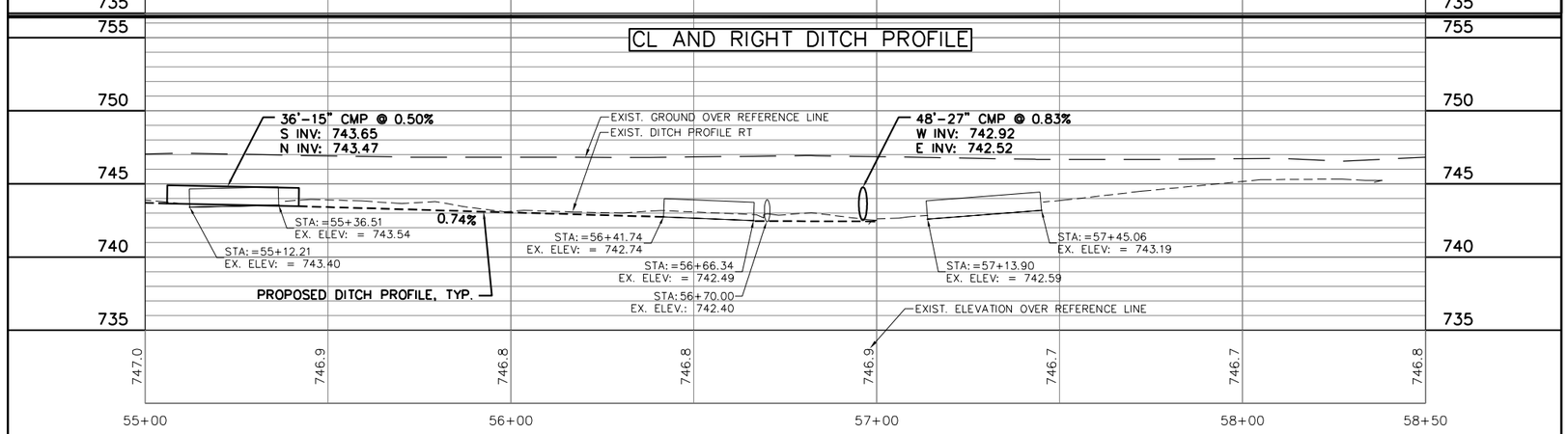
2. IN AREAS WHERE THE DITCH IS MODIFIED, THE CONTRACTOR SHALL CUT THE EXISTING STORM WATER DISCHARGE LINES AS NECESSARY TO FIT THE DITCH SLOPE. THE CONTRACTOR SHALL INSTALL 5LF OF 4" DRAIN TILE WITH SILT SOCK ON END OF STORMWATER DISCHARGE LINES TO PREVENT EROSION AS REQUESTED BY ENGINEER. SEE DETAIL ON SHEET 39.

3. CONTRACTOR SHALL RE-SHAPE DITCHES AT ENDWALLS TO PROVIDE ADEQUATE STORMWATER DRAINAGE TO AND FROM EXISTING DITCHES.

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| JOB NO. | 4916-0051 |
| BOOK NO. | |
| DRAWN BY | KLJ |
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# TOWN OF BUCHANAN
## 2016 PAVING-DRAINAGE IMPROVEMENTS
## CONTRACT NO. "A-16"
## HOPFENSPERGER ROAD IMPROVEMENTS

SHEET NO.
37 OF 40


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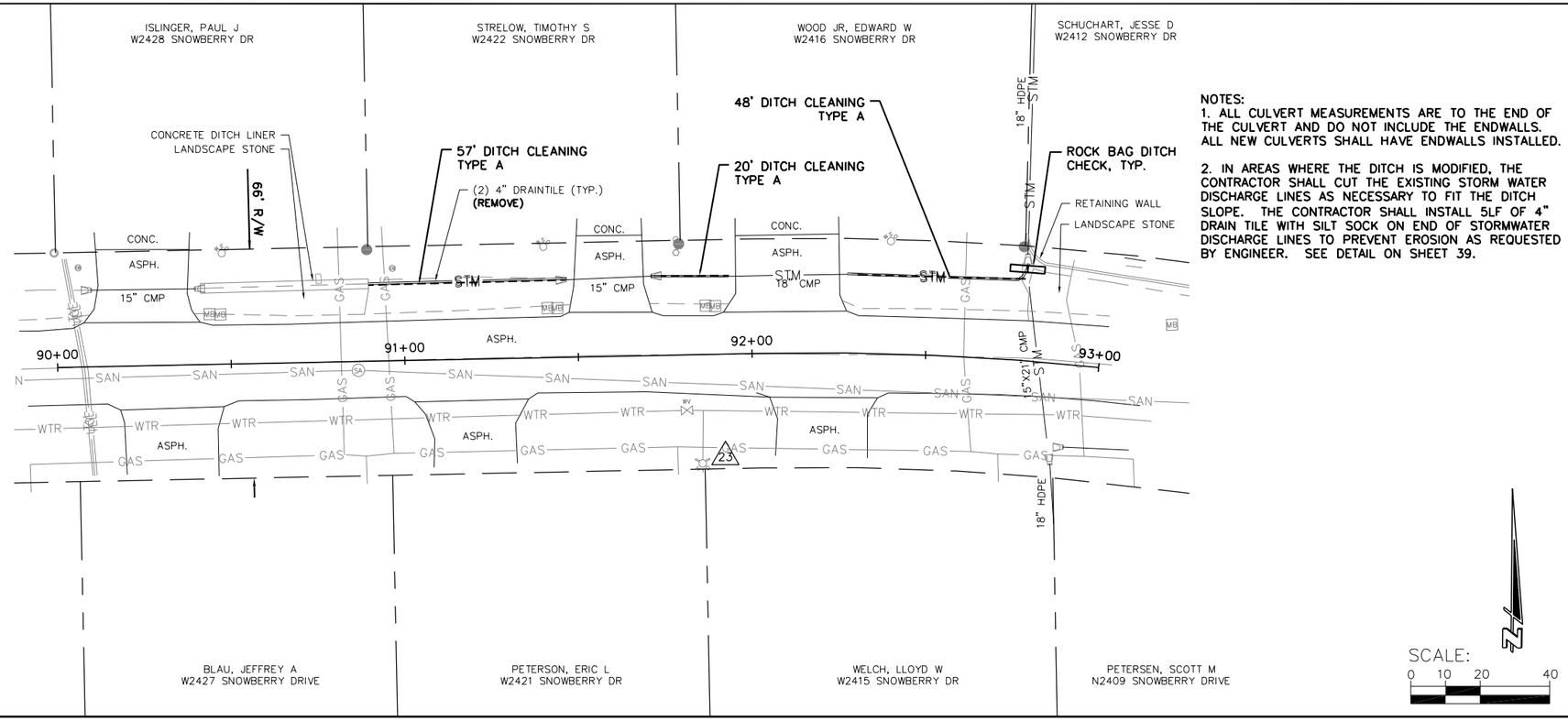


NOTES:
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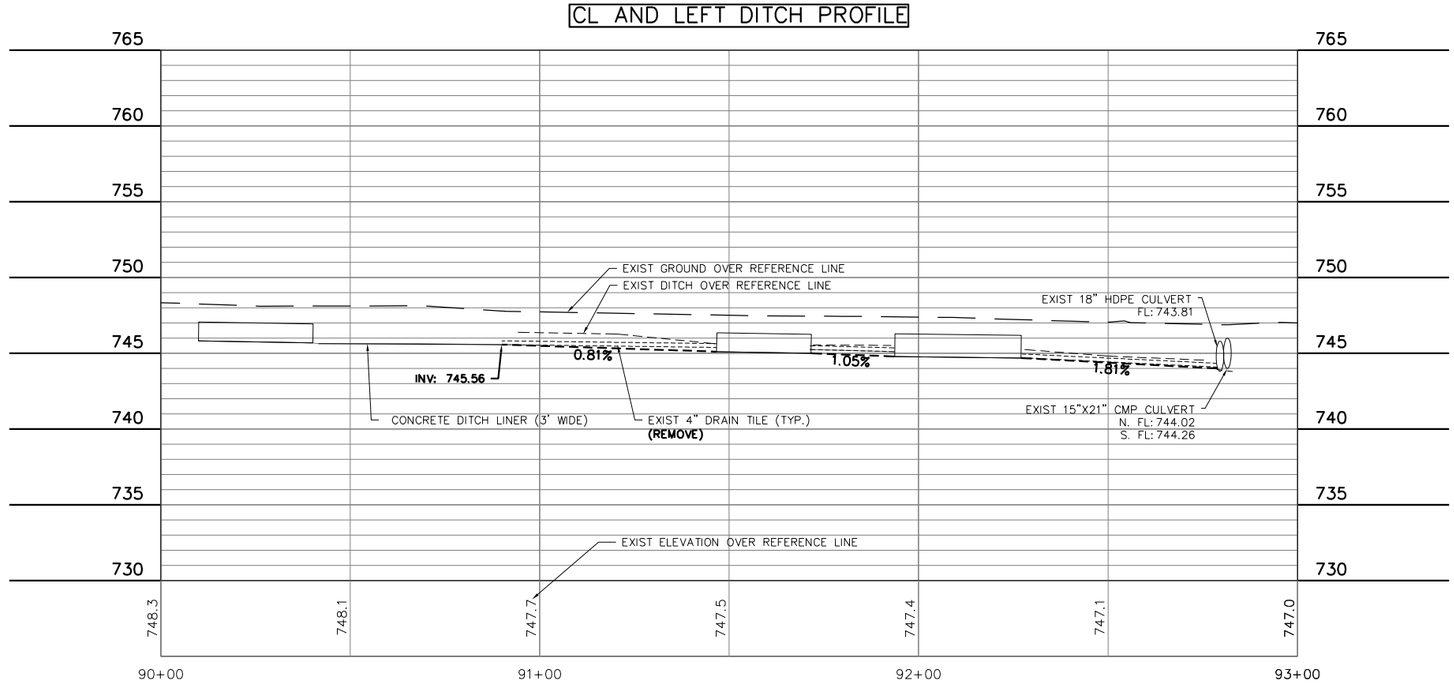
2. IN AREAS WHERE THE DITCH IS MODIFIED, THE CONTRACTOR SHALL CUT THE EXISTING STORM WATER DISCHARGE LINES AS NECESSARY TO FIT THE DITCH SLOPE. THE CONTRACTOR SHALL INSTALL 5LF OF 4" DRAIN TILE WITH SILT SOCK ON END OF STORMWATER DISCHARGE LINES TO PREVENT EROSION AS REQUESTED BY ENGINEER. SEE DETAIL ON SHEET 39.

## CL AND LEFT DITCH PROFILE

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| BOOK NO. | |
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TOWN OF BUCHANAN
2016 PAVING-DRAINAGE IMPROVEMENTS
CONTRACT NO. "A-16"
SNOWBERRY DRIVE IMPROVEMENTS

SHEET NO.
38 OF 40

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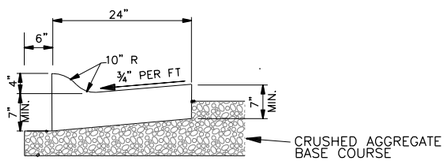
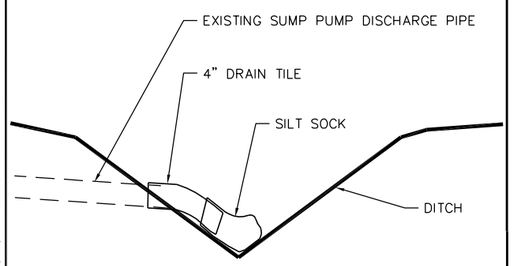
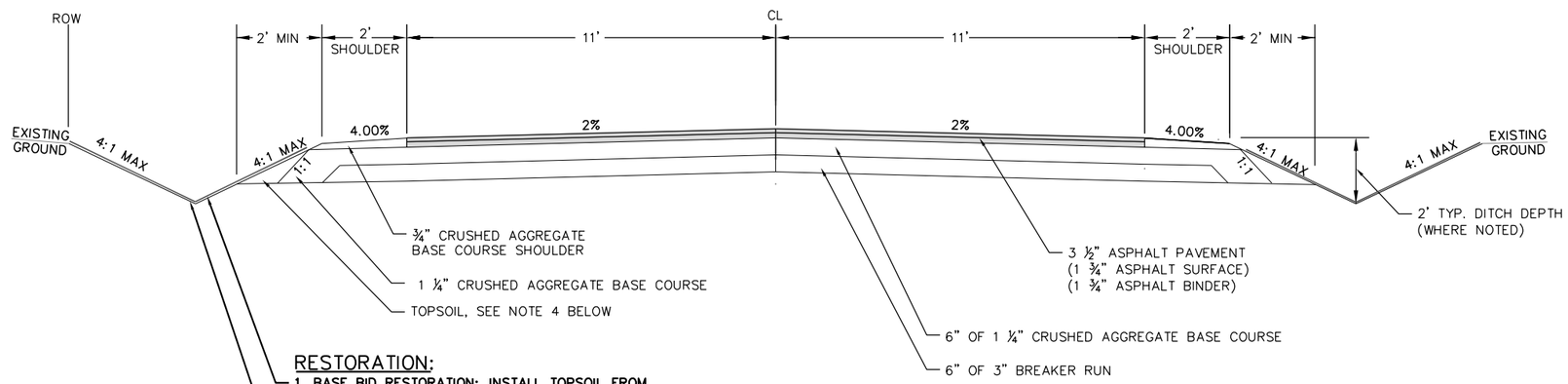



MOUNTABLE CURB

## CURB AND GUTTER DETAILS




## SUMP DISCHARGE DETAIL




### RESTORATION:

1. BASE BID RESTORATION: INSTALL TOPSOIL FROM RIGHT OF WAY TO EDGE OF SHOULDER. INSTALL SOD FOR BOTTOM 6' OF DITCH. HYDROMULCH REMAINING SIDE SLOPES ABOVE SOD FROM THE RIGHT OF WAY TO EDGE OF SHOULDER.
2. ALTERNATE BID RESTORATION: INSTALL SEED, TOPSOIL, AND EROSION MAT CLASS I, TYPE A. INSTALL EROSION MAT ON ALL LANDSCAPED AREAS THAT ARE RESTORED.

### DITCH METHOD:

DITCH CLEANING SHALL BE EITHER TYPE A OR B AS DESCRIBED BELOW:

1. TYPE A DITCH CLEANING WIDTH IS FROM THE EDGE OF SHOULDER TO THE RIGHT-OF-WAY.

2. TYPE B DITCH CLEANING IS AN 8' WIDTH ALONG THE DITCH CENTERLINE.

## TYPICAL SECTION AND NOTES

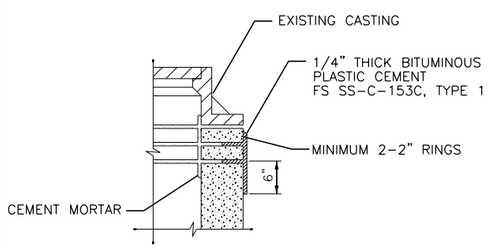
### NOTES:

1. IF EXISTING BASE COURSE IS ENCOUNTERED OUTSIDE OF THE LIMITS OF THE NEW SHOULDER, CONTRACTOR TO CONSULT WITH ENGINEER PRIOR TO THE EXCAVATION AND INSTALLATION OF ADDITIONAL BASE COURSE.

2. DRIVEWAY ASPHALT THICKNESS SHALL BE 2".

3. MINIMUM DRIVEWAY REPLACEMENT SHALL BE 5' INTO THE DRIVEWAY. DRIVEWAY SHALL BE REPLACED TO R.O.W. IN WHERE CULVERTS ARE REPLACED.

4. A BASE COURSE TRENCH SHALL BE EXTENDED OUT TO THE DITCH EVERY 200' OR AS DIRECTED BY THE ENGINEER IN FULL EXCAVATION AREAS TO ALLOW WATER TO DRAIN FROM THE BASE COURSE. TRENCH SHALL BE 4' WIDE AND SHALL CONSIST OF 1 ¼" BASE COURSE OR BREAKER RUN.

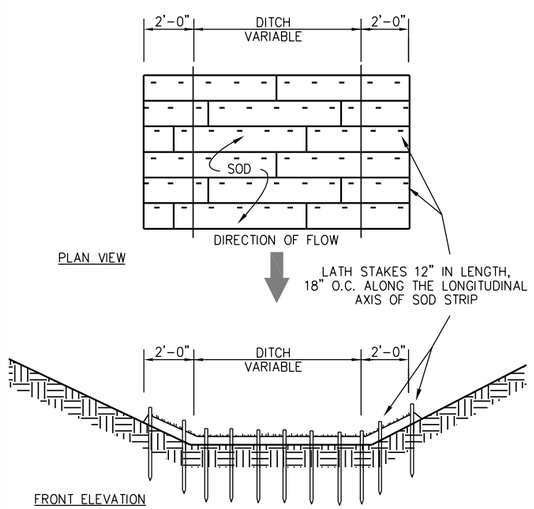



### NOTES:

1. SEAL SPACE BETWEEN FRAME AND TOP RING WITH 1 1/4" THICK BUTYLE RUBBER GASKET.

2. MANHOLE ADJUSTMENTS SHALL BE 0"-6" IN ALL PAVING AREAS.

## ADJUSTING RING JOINT DETAIL




## SOD STAKING

NO SCALE

| STREET | ADDRESS | LOCATION | ASPHALT THICKNESS (IN) | 3/4" BASE COURSE THICKNESS | 1-1/4" BASE COURSE THICKNESS | 3" & FINES/BREAKER THICKNESS (IN) | SUBGRADE MATERIAL |
|---|---|---|---|---|---|---|---|
| LIBERTY LANE | N202 LIBERTY LN | NB | 2.0 | | | 13.0 | CLAY |
| LIBERTY LANE | N168 LIBERTY LN | WB | 1.0 | | 10 | | CLAY |
| | | | | | | | |
| MAPLERIDGE DRIVE | N501 MAPLERIDGE DR | SB | 1.5 | | | 17.5 | CLAY |
| MAPLERIDGE DRIVE | N489/483 MAPLERIDGE DR | NB | 2.0 | | | 12.0 | SANDY CLAY |
| MAPLERIDGE DRIVE | N456 MAPLERIDGE DR | EB | 2.0 | | | 7.0 | LIGHT SANDY CLAY |
| MAPLERIDGE DRIVE | N390 MAPLERIDGE DR | SB | 2.0 | | | 16.0 | CLAY |
| MAPLERIDGE DRIVE | N362 MAPLERIDGE DR | NB | 2.0 | | | 12.0 | CLAY |
| | | | | | | | |
| MAPLERIDGE COURT | W2644/2636 MAPLERIDGE CT | WB | 1.5 | 8.0 | | 12.0 | CLAY |
| | | | | | | | |
| ASPEN COURT | W2593 ASPEN CT | EB | 1.5 | | | 17.5 | CLAY |
| ASPEN COURT | W2598 ASPEN CT | WB | 2.0 | | | 21.0 | HEAVY CLAY |
| | | | | | | | |
| HILLSIDE DRIVE | W2692 HILLSIDE DRIVE | WB | 5.0 | 9.0 | | | CLAY |
| HILLSIDE DRIVE | 100' EAST OF W2654 HILLSIDE | EB | 5.0 | 6.0 | | | CLAY |

## SOIL BORING INFORMATION

*COMPLETED BY OUTAGAMIE COUNTY HIGHWAY DEPARTMENT

JOB NO. 4916-0051
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TOWN OF BUCHANAN
2016 PAVING-DRAINAGE IMPROVEMENTS
CONTRACT NO. "A-16"
DETAILS AND NOTES

SHEET NO.
39 OF 40


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NOTES:

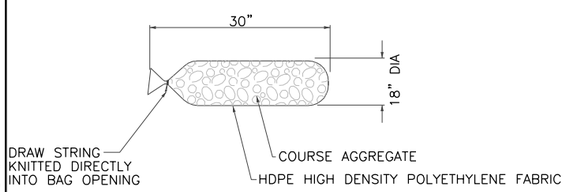
18" X 30" ROCK FILLED FILTER BAG SHALL BE COMPRISED OF THE FOLLOWING:
-HDPE HIGH DENSITY POLYETHYLENE
-HDPE HIGH DENSITY POLYETHYLENE DRAW STRING KNITTED DIRECTLY INTO BAG OPENING.
-ROLLED SEAM USING A MINIMUM OF 480 DENIER POLYESTER SEWING YARN FOR STRENGTH AND DURABILITY.

USE WELL GRADED COURSE AGGREGATE CONFORMING TO THE FOLLOWING GRADATION REQUIREMENTS

| SIEVE SIZE | SIZE NO. AASHTO No. 67 |
|---|---|
| 2 INCH (50 mm) | - |
| 11/2 INCH (37.5mm) | - |
| 1 INCH (25.0 mm) | 100 |
| 3/4 INCH (19.0mm) | 90-100 |
| 3/8 INCH (9.5mm) | 20-55 |
| No. 4 (4.75mm) | 0-10 |
| No. 8 (2.36mm) | 0-5 |

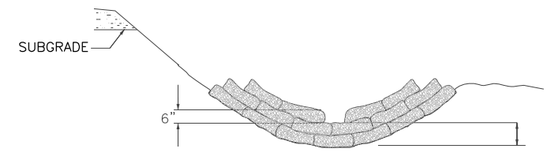
(1) SIZE No. ACCORDING TO AASHTO M 43

COURSE AGGREGATE INFORMATION

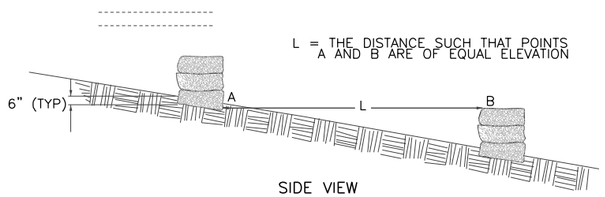



FILTER BAG DETAIL
(PRIOR TO INSTALLATION)

ROCK FILLED FILTER BAG

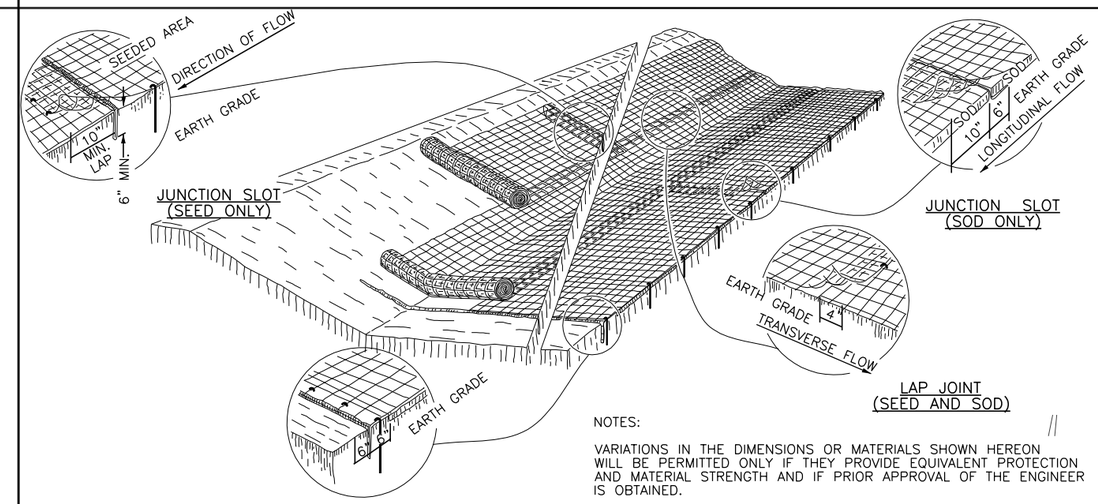



CROSS SECTIONAL VIEW

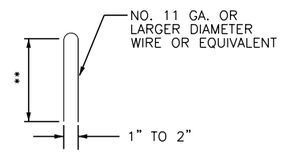



SIDE VIEW

DITCH CHECK DETAIL




ANCHOR SLOT
AT BEGINNING AND END OF EROSION MAT
(SEED AND SOD)




**
6" MIN. FOR FIRM SOILS
12" MIN. FOR LOOSE SOILS
8" MIN. WHERE BOTH SOD AND MATS ARE USED

DETAIL OF
TYPICAL STAPLE

EROSION MAT

NOTES:

VARIATIONS IN THE DIMENSIONS OR MATERIALS SHOWN HEREON WILL BE PERMITTED ONLY IF THEY PROVIDE EQUIVALENT PROTECTION AND MATERIAL STRENGTH AND IF PRIOR APPROVAL OF THE ENGINEER IS OBTAINED.

DO NOT PLACE LAP JOINTS AT THE BOTTOM OF V-SHAPED DITCHES.

JUNCTION SLOTS ON ADJACENT STRIPS OF MATTING WILL BE STAGGERED A MINIMUM OF 4 FEET APART

IMPRESS ALL EDGES OF THE EROSION MAT INTO THE SOIL.

EROSION MAT OVER SOD

ONLY JUTE FABRIC WILL BE PERMITTED OVER SOD

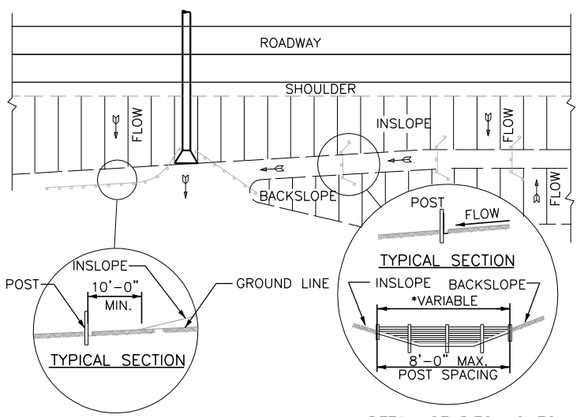
WOOD STAKES FOR SOD MAY BE OMITTED IF THE EXISTING SLOPE AND SOIL CONDITIONS SO WARRANT.

THE WIDTH OF THE EROSION MAT SHALL EQUAL THE SOD WIDTH.

SOD STRIPS MAY BE PLACED EITHER LONGITUDINALLY OR TRANSVERSELY TO THE FLOW LINE OF THE DITCH.

EROSION MAT OVER SEEDING

JUNCTION OR ANCHOR SLOTS WILL BE AT MINIMUM INTERVALS OF 100 FEET ON GRADES UP TO AND INCLUDING 3 PERCENT, AND 50 FEET ON GRADES EXCEEDING 3 PERCENT.




DETAIL OF DITCH CHECK

CONSTRUCT THE SILT FENCE IN AN ARC OR HORSESHOE SHAPE, WITH THE ENDS POINTING UPSLOPE TO MAXIMIZE BOTH STRENGTH AND EFFECTIVENESS.

CROSS BRACE WITH 2"x4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS AS DIRECTED BY THE ENGINEER.

MINIMUM 14 GUAGE WIRE REQUIRED, FOLD FABRIC 3" OVER THE WIRE AND STAPLE OR PLACE WIRE RINGS ON 12" CENTERS.

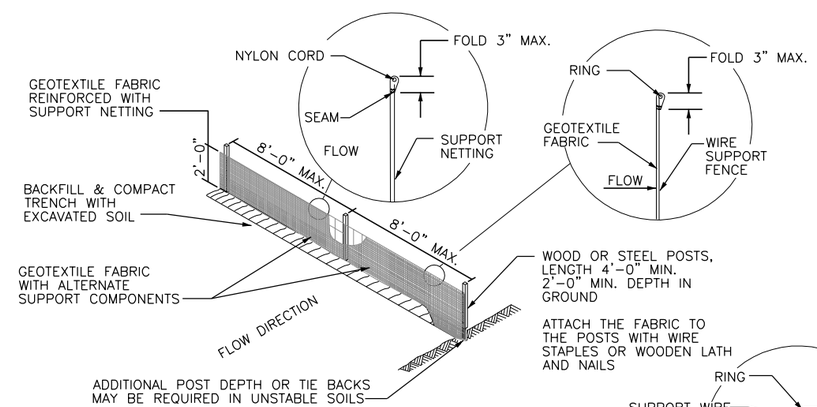
EXCAVATE A TRENCH A MINIMUM OF 4" WIDE AND 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL AND COMPACT TRENCH WITH EXCAVATED SOIL.

USE 14 GUAGE MIIMUM WOVEN WIRE SUPPORT FENCE WITH A MAXIMUM MESH SPACING OF 6". SECURE TOP OF GEOTEXTILE FABRIC TO TOP OF FENCE WITH STAPLES OR WIRE RINGS AT 12" CENTERS

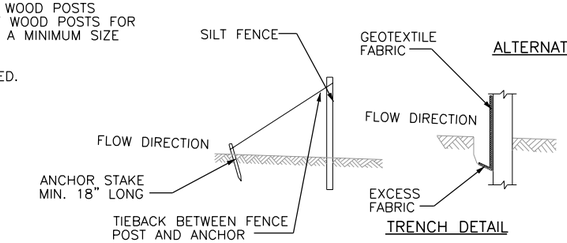
GEOTEXTILE FABRIC WILL BE REINFORCED WITH AN INDUSTRIAL POLYPROPYLENE NETTING WITH A MAXIMUM MESH SPACING OF 1" OR EQUAL. A HEAVY DUTY NYLON TOP SUPPORT CORD OR EQUIVALENT IS REQUIRED.

STEEL POSTS WILL BE STUDDED "TEE" OR "U" TYPE WITH A MINIMUM WEIGHT OF 1.28 LBS\LINEAL FOOT (WITHOUT ANCHOR). FIN ANCHORS SUFFICIENT TO RESIST POST MOVEMENT ARE REQUIRED. WOOD POSTS SHALL BE A MINIMUM SIZE OF 4" DIA. OR 1"x3" EXCEPT WOOD POSTS FOR GEOTEXTILE FABRIC REINFORCED WITH NETTING SHALL BE A MINIMUM SIZE OF 1"x1" OAK OR HICKORY.

ALTERNATES A & B ARE EQUAL AND EITHER MAY BE USED.

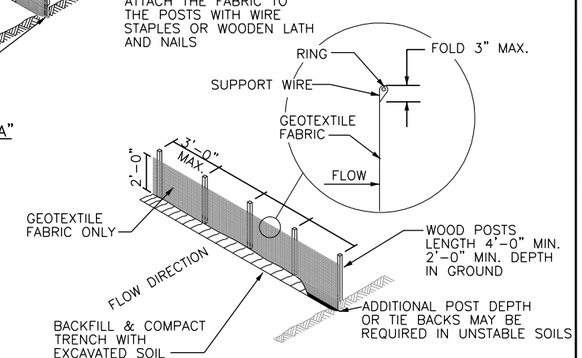



ALTERNATE "A"




TRENCH DETAIL

GEOTEXTILE FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)




ALTERNATE "B"

| | |
|---|---|
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TOWN OF BUCHANAN
2016 PAVING-DRAINAGE IMPROVEMENTS
CONTRACT NO. "A-16"
EROSION CONTROL DETAILS

SHEET NO.
40 OF 40


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