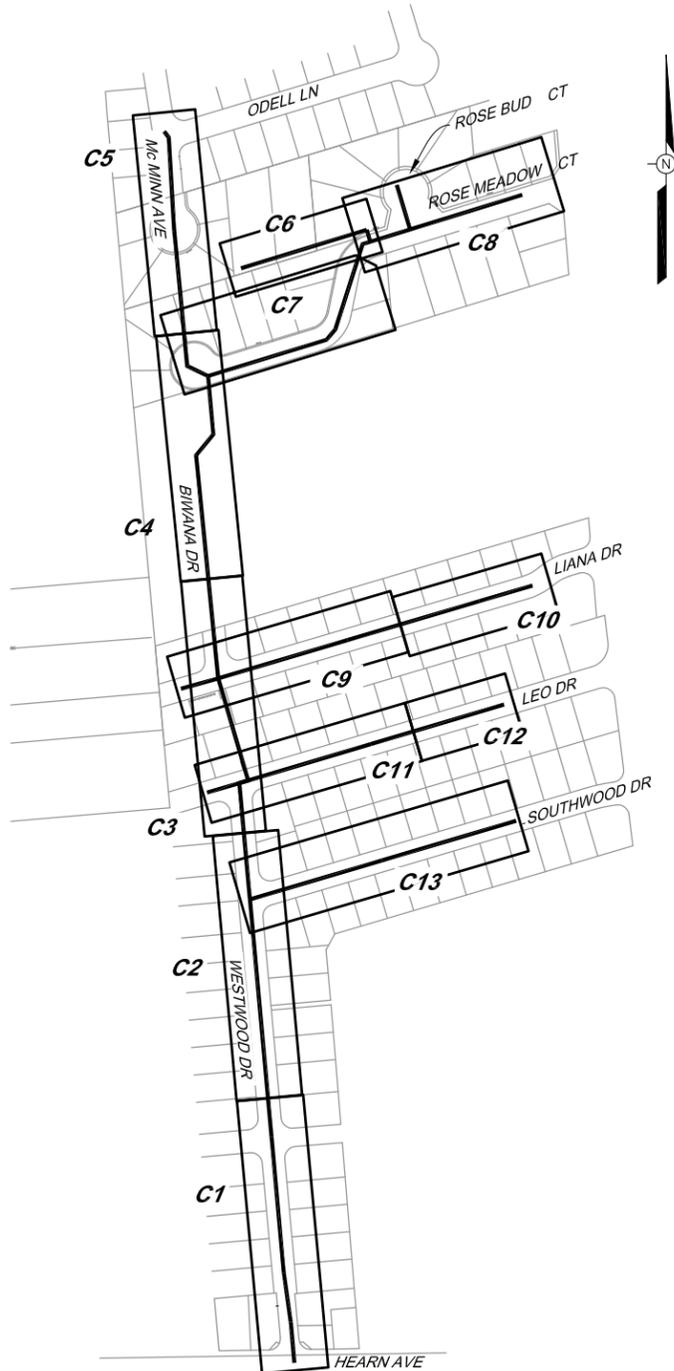
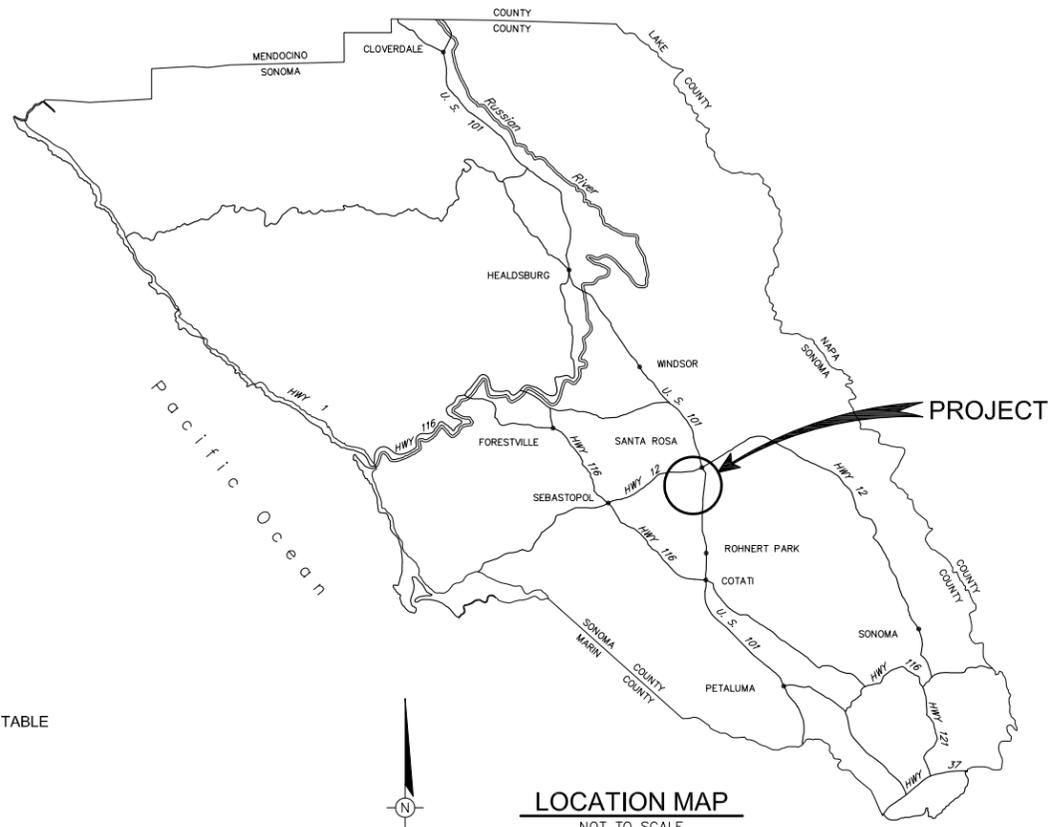


DRAWINGS

SOUTH PARK COUNTY SANITATION DISTRICT BIWANA DRIVE COLLECTION SYSTEM REPLACEMENT PROJECT



VICINITY MAP
1" = 200'

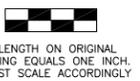


LOCATION MAP
NOT TO SCALE

INDEX TO DRAWINGS

| SHEET NUMBER | SHEET TITLE | SHEET DESCRIPTION |
|--------------|-------------|--|
| 1 | G-1 | LOCATION AND VICINITY MAPS AND INDEX TO DRAWINGS |
| 2 | G-2 | GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS |
| 3 | G-3 | HORIZONTAL AND VERTICAL SURVEY CONTROL AND STRUCTURE TABLE |
| 4 | R-1 | RIGHT-OF-WAY |
| 5 | R-2 | RIGHT-OF-WAY |
| 6 | R-3 | RIGHT-OF-WAY |
| 7 | R-4 | RIGHT-OF-WAY |
| 8 | C-1 | PLAN AND PROFILE - WESTWOOD DRIVE STA 1+00 TO STA 6+80 |
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| 10 | C-3 | PLAN AND PROFILE - WESTWOOD DRIVE TO BIWANA DRIVE STA 12+60 TO STA 18+40 |
| 11 | C-4 | PLAN AND PROFILE - BIWANA DRIVE TO ROSE MEADOW COURT STA 18+40 TO STA 24+20 |
| 12 | C-5 | PLAN AND PROFILE - McMINN AVENUE STA 24+20 TO STA 28+67.59 |
| 13 | C-6 | PLAN AND PROFILE - ROSE MEADOW EASEMENT STA 30+00 TO STA 33+22.47 |
| 14 | C-7 | PLAN AND PROFILE - ROSE MEADOW COURT STA 40+00 TO STA 44+60 |
| 15 | C-8 | PLAN AND PROFILE - ROSE MEADOW COURT STA 44+60 TO STA 48+73.71 & ROSE BUD COURT STA 35+00 TO 35+96 |
| 16 | C-9 | PLAN AND PROFILE - LIANA DRIVE STA 50+00 TO STA 55+00 |
| 17 | C-10 | PLAN AND PROFILE - LIANA DRIVE STA 55+00 TO STA 58+01.56 |
| 18 | C-11 | PLAN AND PROFILE - LEO DRIVE STA 59+97 TO STA 64+60 |
| 19 | C-12 | PLAN AND PROFILE - LEO DRIVE STA 64+60 TO STA 66+49.77 AND GLORIA STUB |
| 20 | C-13 | PLAN AND PROFILE - SOUTHWOOD DRIVE STA 70+00 TO STA 75+82.50 |
| 21 | C-14 | CIVIL DETAILS |
| 22 | D-1 | MISCELLANEOUS DETAILS |
| 23 | D-2 | TRENCH DETAILS |
| 24 | D-3 | PROJECT FUNDING IDENTIFICATION SIGN |

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| NO. | DATE | REVISION | BY |
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**SOUTH PARK COUNTY
SANITATION DISTRICT**

| | |
|---------------------------------|--------------------|
| SCALE : AS SHOWN | DATE : 07/13/10 |
| DRAWN : SP | |
| REVIEWED : <i>Kent Coyne</i> | |

| | |
|---|---------------------|
| BIWANA DRIVE COLLECTION SYSTEM REPLACEMENT PROJECT | |
| LOCATION AND VICINITY MAPS AND INDEX TO DRAWINGS | |
| FILE NAME: 7140_G1-G2.dwg | DRAWING NUMBER: G-1 |
| CONTRACT NUMBER: 70-1-7 #7 | SHEET 1 OF 24 |

ABBREVIATIONS

| | | | |
|--------|----------------------------------|------|----------------------------|
| AB | AGGREGATE BASE | JP | JOINT POLE |
| AC | ASPHALT CONCRETE | L | LENGTH |
| ACP | ASPHALT CEMENT PIPE | LAT | LATERAL |
| AD | AREA DRAIN | LF | LINEAR FEET |
| APPROX | APPROXIMATE | LT | LEFT |
| BLD | BUILDING | MAX | MAXIMUM |
| BO | BLOWOFF | MB | MAILBOX |
| CIP | CAST-IN-PLACE | MIN | MINIMUM |
| CI | CURB INLET | N | NORTH |
| CLSM | CONTROLLED LOW STRENGTH MATERIAL | NO | NUMBER |
| CMP | CORRUGATED METAL PIPE | OD | OUTSIDE DIAMETER |
| CP | CONCRETE PIPE | PCC | PORTLAND CEMENT CONCRETE |
| CL | CLASS | PSI | POUNDS PER SQUARE INCH |
| CSR | CITY OF SANTA ROSA | PUE | PUBLIC UTILITY EASEMENT |
| CU FT | CUBIC FOOT | PVC | POLYVINYL CHLORIDE |
| CU YD | CUBIC YARD | RC | RELATIVE COMPACTION |
| DI | DROP INLET | RCB | REINFORCED CONCRETE BOX |
| DIP | DUCTILE IRON PIPE | RCP | REINFORCED CONCRETE PIPE |
| DIA | DIAMETER | RDWD | REDWOOD |
| D/W | DRIVEWAY | RT | RIGHT |
| DWG | DRAWING | S | SLOPE/SOUTH |
| E | EAST | SCWA | SONOMA COUNTY WATER AGENCY |
| EA | EACH | SD | STORM DRAIN |
| EA WY | EACH WAY | S/L | STREET LIGHT |
| EG | EXISTING GRADE | SS | SANITARY SEWER |
| ESMT | EASEMENT | SSCO | SANITARY SEWER CLEANOUT |
| EX | EXISTING | SSMH | SANITARY SEWER MANHOLE |
| EP | EDGE OF PAVEMENT | STA | STATION |
| FG | FINISHED GRADE | STD | STANDARD |
| FL | FLOWLINE | UG | UNDER GROUND |
| FNC | FENCE | W | WEST |
| HWY | HIGHWAY | W/ | WITH |
| ID | INSIDE DIAMETER | WD | WOOD |
| INV | INVERT | XING | CROSSING |
| | | +/- | PLUS/MINUS |

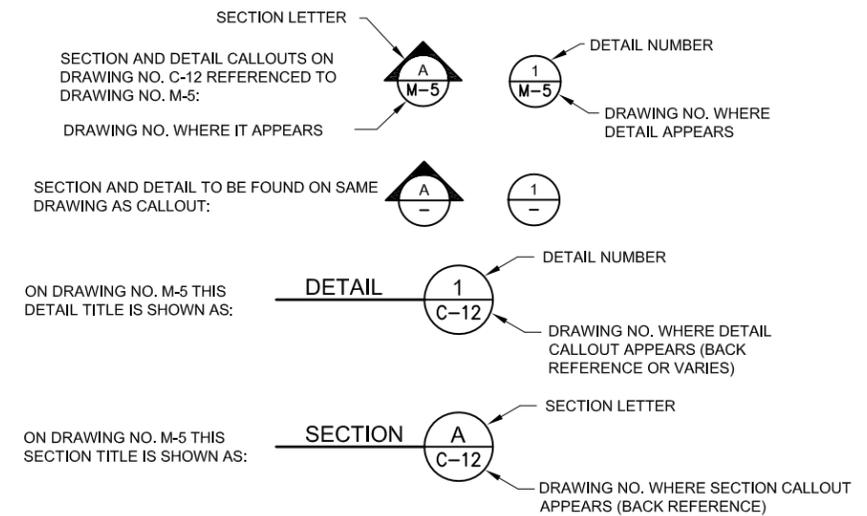
LEGEND:

| | |
|--|---|
| | ABANDON EXIST SS MAIN |
| | PLUG EXIST SS MAIN AT SSMH |
| | CONNECTION TO EXISTING LATERAL |
| | SANITARY SEWER MANHOLE - NEW |
| | SANITARY SEWER MANHOLE - EXISTING |
| | SANITARY SEWER MANHOLE - REMOVE AND REPLACE |
| | SANITARY SEWER CLEANOUT - NEW |
| | SANITARY SEWER CLEANOUT - EXISTING |
| | PROJECT IDENTIFICATION SIGN |
| | FIRE HYDRANT |
| | CENTERLINE MONUMENT/PROPERTY CORNER |
| | WATER VALVE |
| | PARCEL ADDRESS |
| | SIGN |
| | MAIL BOX |
| | UTILITY POLE |
| | GUY ANCHOR |
| | UTILITY VAULT |
| | TEMPORARY CONSTRUCTION FENCE |
| | SANITARY SEWER LINE |
| | UNDERGROUND ELECTRICAL |
| | OVERHEAD LINE |
| | UNDERGROUND TELEPHONE |
| | EASEMENT LINE |
| | EXISTING FENCE |
| | PROPERTY LINE |
| | UNDERGROUND GAS |
| | UNDERGROUND CABLE TV |
| | 4" WATER LINE |
| | 6" WATER LINE |
| | 8" WATER LINE |
| | 12" WATER LINE |

GENERAL NOTES

1. ALL STATIONING REPRESENTS HORIZONTAL MEASUREMENT AT CENTERLINE OF CONSTRUCTION.
2. RIGHT AND LEFT DIRECTIONS ARE FROM CENTERLINE LOOKING UP STATION.
3. PIPE LENGTHS INDICATED ARE MEASURED BETWEEN CENTERS OF MANHOLES.
4. GAS LINES ARE 2" DIAMETER UNLESS OTHERWISE INDICATED.

TYPICAL SECTION LETTERING AND DETAIL NUMBERING SYSTEM



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BAR LENGTH ON ORIGINAL DRAWING EQUALS ONE INCH. ADJUST SCALE ACCORDINGLY



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**SOUTH PARK COUNTY
SANITATION DISTRICT**

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|---------------------------------|--------------------|
| SCALE : AS SHOWN | DATE : 07/13/10 |
| DRAWN : SP | |
| REVIEWED : <i>Kent Goyke</i> | |

**BIWANA DRIVE COLLECTION SYSTEM REPLACEMENT PROJECT
GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS**

FILE NAME: 7140_G1-02.dwg
CONTRACT NUMBER: 70-1-7 #7

DRAWING NUMBER: G-2

SHEET 2 OF 24



CONTROL PLAN

SCALE: 1" = 200'



| NO. | DATE | REVISION | BY |
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LEGEND

- △ 1 CONTROL POINT
- PROJECT IDENTIFICATION SIGN

HORIZONTAL AND VERTICAL CONTROL

| HORIZONTAL AND VERTICAL CONTROL | | | | |
|---------------------------------|-------------|-------------|-----------|---------------|
| POINT | NORTHING | EASTING | ELEVATION | DESCRIPTION |
| 1 | 1914514.874 | 6352415.551 | 122.87 | SURVMARK SPK. |
| 2 | 1914775.907 | 6353224.206 | 125.96 | SURVMARK SPK. |
| 3 | 1914766.704 | 6352402.247 | 123.79 | SURVMARK SPK. |
| 4 | 1915022.209 | 6353247.405 | 128.22 | SURVMARK SPK. |
| 5 | 1914995.121 | 6352329.156 | 124.38 | SURVMARK SPK. |
| 6 | 1915246.958 | 6353156.207 | 129.79 | SURVMARK SPK. |
| 7 | 1916063.138 | 6353134.393 | 131.54 | SURVMARK SPK. |
| 8 | 1915984.678 | 6352233.069 | 125.62 | SURVMARK SPK. |
| 9 | 1916910.356 | 6352153.196 | 128.70 | SURVMARK SPK. |
| 10 | 1915980.424 | 6352683.795 | 126.87 | SURVMARK SPK. |
| 11 | 1915726.013 | 6352567.177 | 125.46 | SURVMARK SPK. |
| 12 | 1915641.096 | 6352284.132 | 124.26 | SURVMARK SPK. |
| 13 | 1915254.457 | 6352322.236 | 125.37 | SURVMARK SPK. |
| 16 | 1913489.676 | 6352484.782 | 119.07 | SURVMARK SPK. |
| 17 | 1913976.564 | 6352434.905 | 120.78 | SURVMARK SPK. |

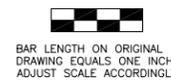
NOTES:

1. COORDINATES GIVEN ARE BASED UPON A LOCAL HORIZONTAL PROJECT DATUM.
2. ELEVATIONS GIVEN ARE BASED UPON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29).
3. THE PROJECT BENCHMARK IS A CHISELED SQUARE ON TOP OF THE SOUTHWEST CORNER OF THE HEADWALL FOR A REINFORCED CONCRETE BOX CULVERT STRUCTURE FOR ROSELAND CREEK AT McMINN AVENUE. ELEVATION = 130.29'

STRUCTURE TABLE

| STRUCTURE | STATION | NORTHING | EASTING |
|------------|---|------------|------------|
| 542-101 | 1+00.09 | 1913507.67 | 6352498.54 |
| 542-201 | 1+89.36 | 1913596.58 | 6352490.46 |
| 542-105 | 2+97.16 | 1913703.31 | 6352475.41 |
| 542-106 | 5+95.51 | 1914000.45 | 6352448.48 |
| 542-107 | 8+70.43 | 1914274.23 | 6352423.54 |
| 536-101 | 11+16.28 @ WESTWOOD 70+00.00 @ SOUTHWOOD | 1914519.10 | 6352401.59 |
| 536-102 | 13+71.11 @ WESTWOOD 60+73.36 @ LEO | 1914772.84 | 6352378.04 |
| 536-201 | 13+91.43 @ WESTWOOD 60+93.67 @ LEO | 1914778.61 | 6352397.52 |
| 536-104 | 16+23.48 @ BWANA 50+84.49 @ LIANA | 1915001.22 | 6352331.98 |
| 536-202 | 18+82.74 | 1915259.16 | 6352305.88 |
| 530-202 | 21+12.66 | 1915487.98 | 6352283.39 |
| 530-203 | 21+72.38 | 1915534.13 | 6352321.28 |
| 530-204 | 22+99.92 @ BWANA 40+00.00 @ ROSEMEASOW | 1915661.13 | 6352309.54 |
| 530-101 | 23+50.27 | 1915682.86 | 6352264.11 |
| 530-205 | 26+47.26 | 1915978.46 | 6352235.54 |
| 530-104 | 28+51.00 | 1916181.86 | 6352223.57 |
| 530-210 | 28+67.59 | 1916194.97 | 6352213.42 |
| 530-207 | 30+00.00 | 1915894.11 | 6352374.26 |
| 530-206 | 32+95.12 | 1915980.42 | 6352656.48 |
| 530-106 | 33+22.47 @ EASEMENT 45+11.21 @ ROSEMEADOW | 1915954.39 | 6352664.87 |
| 530-107 | 35+00.00 @ ROSE BUD 46+02.35 @ ROSE MEADOW | 1915981.32 | 6352751.93 |
| 530-211 | 35+96+00 | 1916073.24 | 6352724.21 |
| 530-201 | 42+71.24 | 1915740.42 | 6352568.92 |
| 530-208 | 43+29.22 | 1915785.23 | 6352605.72 |
| 530-209 | 44+43.21 | 1915896.92 | 6352628.52 |
| 530-102 | 48+73.71 | 1916061.16 | 6353011.29 |
| CO 536-102 | 50+00.00 | 1914975.33 | 6352251.56 |
| 536-210 | 52+11.56 | 1915037.37 | 6352453.80 |
| 536-211 | 55+06.53 | 1915120.91 | 6352736.69 |
| 536-107 | 58+01.55 | 1915204.12 | 6353019.73 |
| CO 536-101 | 59+97.00 | 1914751.44 | 6352304.74 |
| 536-208 | 63+28.98 | 1914845.39 | 6352623.15 |
| 536-209 | 66+23.98 | 1914929.08 | 6352906.04 |
| 536-206 | 72+57.3 | 1914591.95 | 6352648.37 |
| 536-207 | 75+57.33 | 1914676.81 | 6352936.11 |

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BAR LENGTH ON ORIGINAL
DRAWING EQUALS ONE INCH.
ADJUST SCALE ACCORDINGLY

**SOUTH PARK COUNTY
SANITATION DISTRICT**

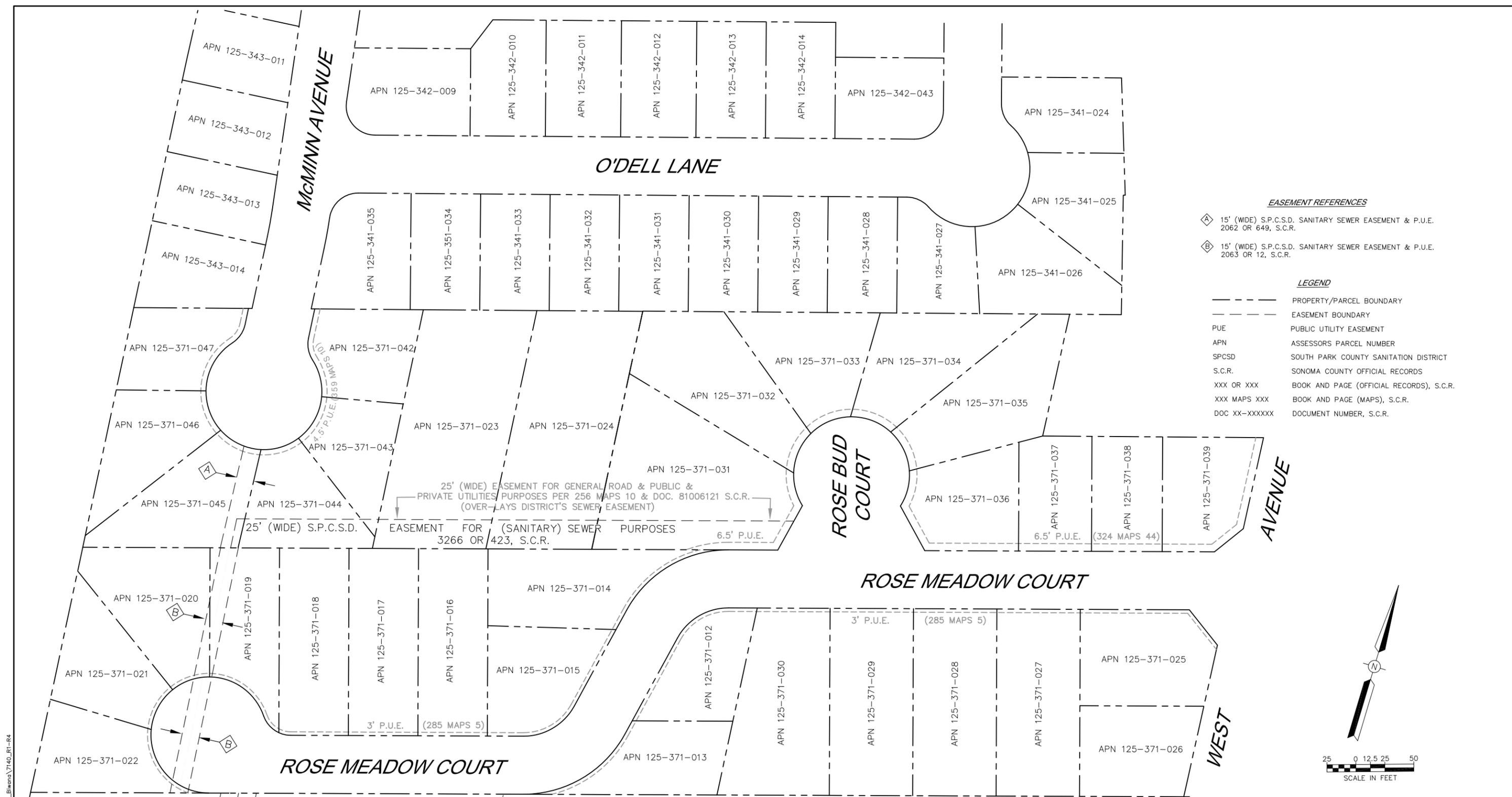
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| SCALE : AS SHOWN | DATE : 07/13/10 |
| DRAWN : SP | |
| REVIEWED : <i>Kent</i> <i>Guy</i> | |

**BIWANA DRIVE COLLECTION SYSTEM REPLACEMENT PROJECT
HORIZONTAL AND VERTICAL SURVEY
CONTROL AND STRUCTURE TABLE**

FILE NAME: 7140_G-3.dwg
CONTRACT NUMBER: 70-1-7 #7

DRAWING NUMBER: G-3

SHEET 3 OF 24



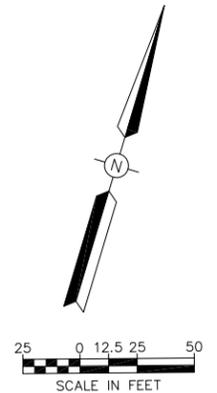
- EASEMENT REFERENCES**
- ⬠ 15' (WIDE) S.P.C.S.D. SANITARY SEWER EASEMENT & P.U.E. 2062 OR 649, S.C.R.
 - ⬠ 15' (WIDE) S.P.C.S.D. SANITARY SEWER EASEMENT & P.U.E. 2063 OR 12, S.C.R.

- LEGEND**
- PROPERTY/PARCEL BOUNDARY
 - - - EASEMENT BOUNDARY
 - PUE PUBLIC UTILITY EASEMENT
 - APN ASSESSORS PARCEL NUMBER
 - SPCSD SOUTH PARK COUNTY SANITATION DISTRICT
 - S.C.R. SONOMA COUNTY OFFICIAL RECORDS
 - XXX OR XXX BOOK AND PAGE (OFFICIAL RECORDS), S.C.R.
 - XXX MAPS XXX BOOK AND PAGE (MAPS), S.C.R.
 - DOC XX-XXXXXX DOCUMENT NUMBER, S.C.R.

25' (WIDE) EASEMENT FOR GENERAL ROAD & PUBLIC & PRIVATE UTILITIES PURPOSES PER 256 MAPS 10 & DOC. 81006121 S.C.R. (OVER-LAYS DISTRICT'S SEWER EASEMENT)

25' (WIDE) S.P.C.S.D. EASEMENT FOR (SANITARY) SEWER PURPOSES 3266 OR 423, S.C.R.

6.5' P.U.E.



SEE DRAWING R-2

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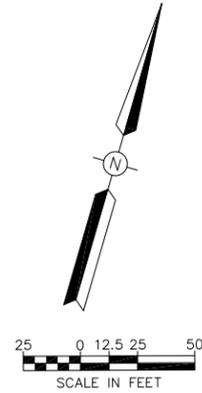
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**SOUTH PARK COUNTY
SANITATION DISTRICT**

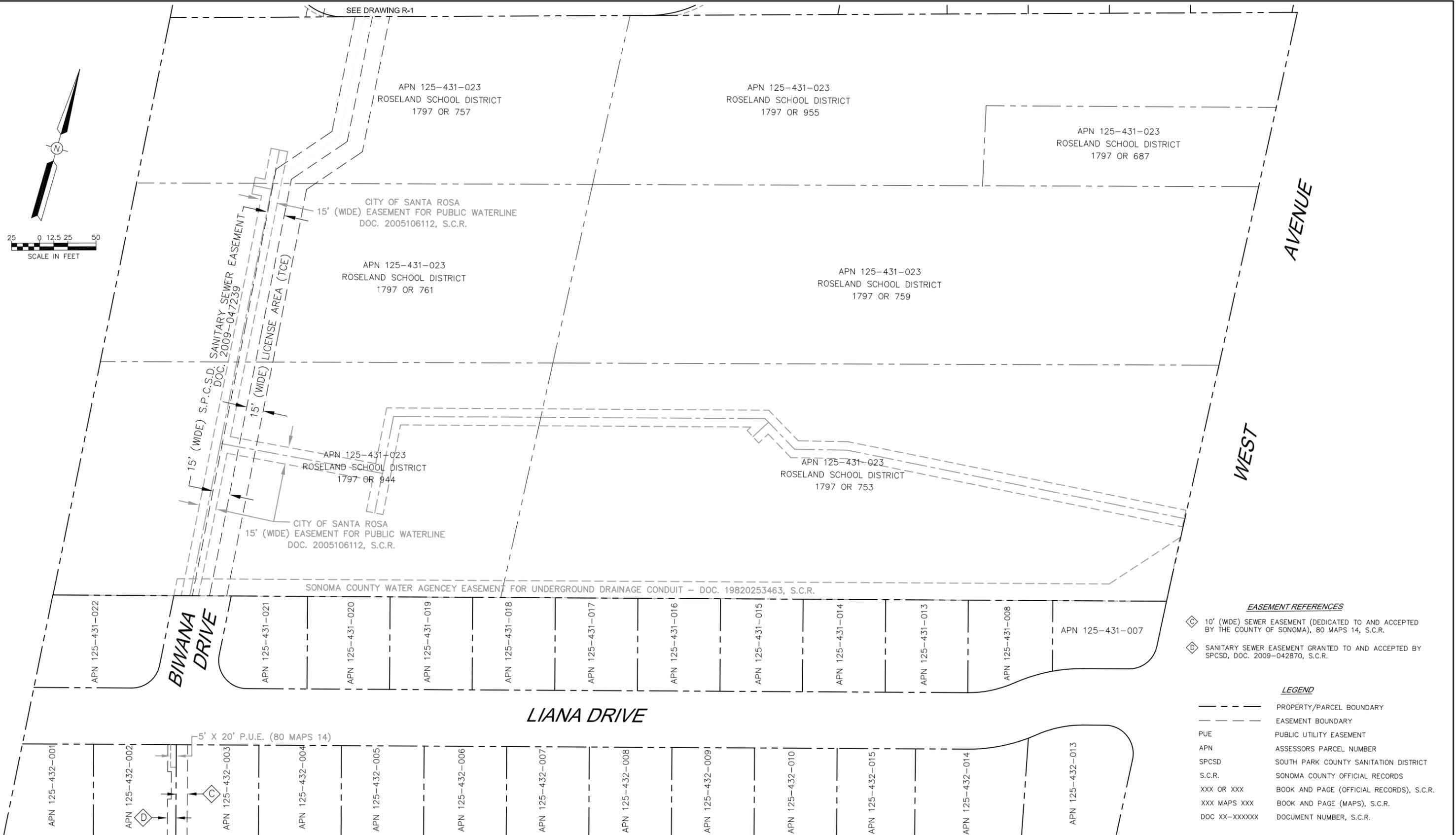
SCALE : AS SHOWN DATE : 07/13/10
 DRAWN : JM
 REVIEWED : *Kent Coyne*

**BIWANA DRIVE COLLECTION SYSTEM REPLACEMENT PROJECT
RIGHT-OF-WAY**

FILE NAME: 7140_R1-R4.dwg DRAWING NUMBER: R-1 SHEET 4 OF 24
 CONTRACT NUMBER: -7 #



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- EASEMENT REFERENCES**
- ◊ 10' (WIDE) SEWER EASEMENT (DEDICATED TO AND ACCEPTED BY THE COUNTY OF SONOMA), 80 MAPS 14, S.C.R.
 - ◊ SANITARY SEWER EASEMENT GRANTED TO AND ACCEPTED BY SPCSD, DOC. 2009-042870, S.C.R.
- LEGEND**
- — — — — PROPERTY/PARCEL BOUNDARY
 - - - - - EASEMENT BOUNDARY
 - PUE PUBLIC UTILITY EASEMENT
 - APN ASSESSORS PARCEL NUMBER
 - SPCSD SOUTH PARK COUNTY SANITATION DISTRICT
 - S.C.R. SONOMA COUNTY OFFICIAL RECORDS
 - XXX OR XXX BOOK AND PAGE (OFFICIAL RECORDS), S.C.R.
 - XXX MAPS XXX BOOK AND PAGE (MAPS), S.C.R.
 - DOC XX-XXXXXX DOCUMENT NUMBER, S.C.R.

BAR LENGTH ON ORIGINAL DRAWING EQUALS ONE INCH. ADJUST SCALE ACCORDINGLY



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**SOUTH PARK COUNTY
SANITATION DISTRICT**

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 REVIEWED : *Kent Goyke*

**BIWANA DRIVE COLLECTION SYSTEM REPLACEMENT PROJECT
RIGHT-OF-WAY**

FILE NAME: 7140_R1-R4.dwg DRAWING NUMBER: R-2 SHEET R-2 OF 24
 CONTRACT NUMBER: -7#



25 0 12.5 25 50
SCALE IN FEET

SEE DRAWING R-2

SONOMA COUNTY WATER AGENCY EASEMENT FOR UNDERGROUND DRAINAGE CONDUIT - DOC. 19820253463, S.C.R.

5' X 20' P.U.E. (80 MAPS 14)

5' X 20' P.U.E. (73 MAPS 31)

EASEMENT REFERENCES

- ◊ 10' (WIDE) SEWER EASEMENT (DEDICATED TO AND ACCEPTED BY THE COUNTY OF SONOMA), 80 MAPS 14, S.C.R.
- ◊ SANITARY SEWER EASEMENT GRANTED TO AND ACCEPTED BY SPCSD, DOC. 2009-042870, S.C.R.
- ◊ SANITARY SEWER EASEMENT GRANTED TO AND ACCEPTED BY SPCSD, DOC. 2009-043132, S.C.R.
- ◊ SANITARY SEWER EASEMENT GRANTED TO AND ACCEPTED BY SPCSD, DOC. 2009-043131, S.C.R.
- ◊ 5' (WIDE) SANITARY SEWER EASEMENT (PRIVATE) 1566 OR 186, S.C.R.

LEGEND

- PROPERTY/PARCEL BOUNDARY
- - - EASEMENT BOUNDARY
- PUE PUBLIC UTILITY EASEMENT
- APN ASSESSORS PARCEL NUMBER
- SPCSD SOUTH PARK COUNTY SANITATION DISTRICT
- S.C.R. SONOMA COUNTY OFFICIAL RECORDS
- XXX OR XXX BOOK AND PAGE (OFFICIAL RECORDS), S.C.R.
- XXX MAPS XXX BOOK AND PAGE (MAPS), S.C.R.
- DOC XX-XXXXXX DOCUMENT NUMBER, S.C.R.

SEE DRAWING R-4



| NO. | DATE | REVISION | BY |
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**SOUTH PARK COUNTY
SANITATION DISTRICT**

SCALE : AS SHOWN DATE : 07/13/10
DRAWN : JM
REVIEWED : *Kent Coyne*

**BIWANA DRIVE COLLECTION SYSTEM REPLACEMENT PROJECT
RIGHT-OF-WAY**

FILE NAME: 7140_R1-R4.dwg
CONTRACT NUMBER: -7 #

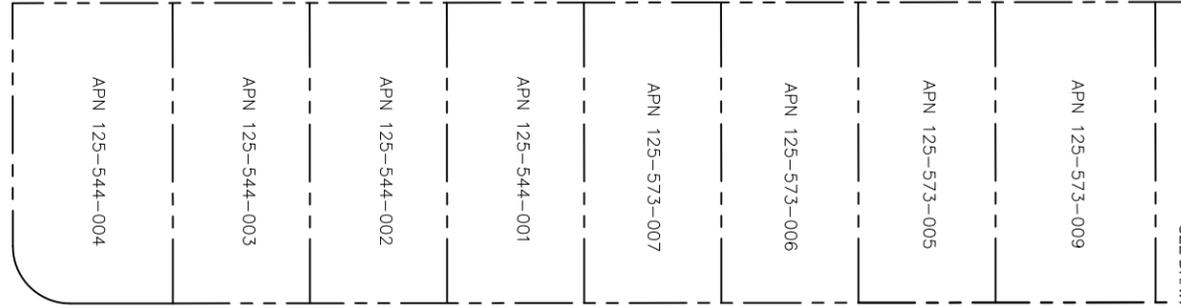
DRAWING NUMBER: R-3

SHEET 6 OF 24

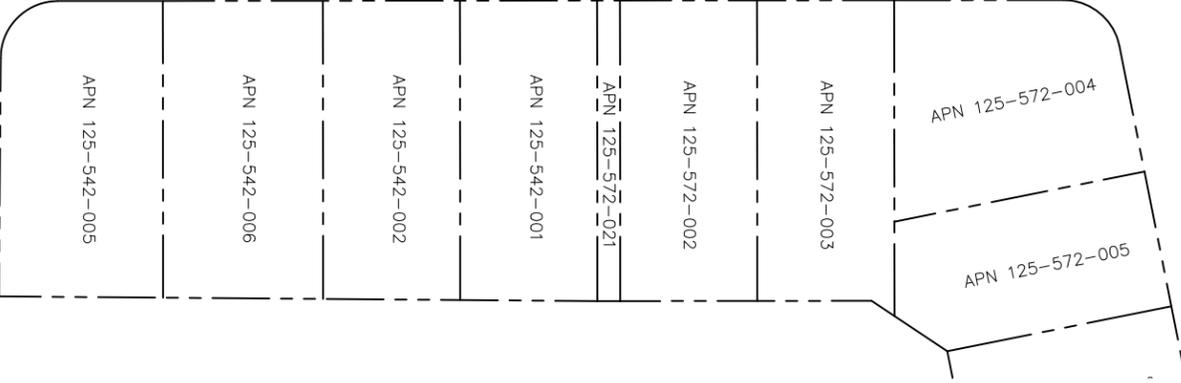
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BAR LENGTH ON ORIGINAL
DRAWING EQUALS ONE INCH.
ADJUST SCALE ACCORDINGLY

SEE DRAWING R-3

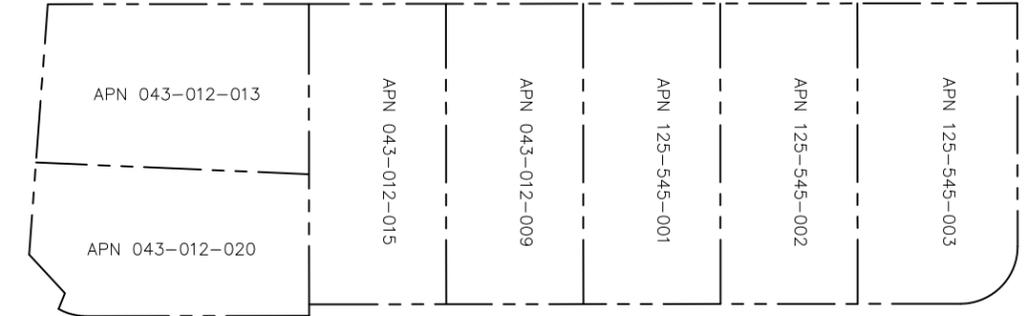


WESTWOOD DRIVE

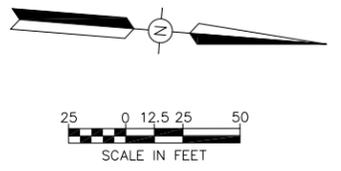
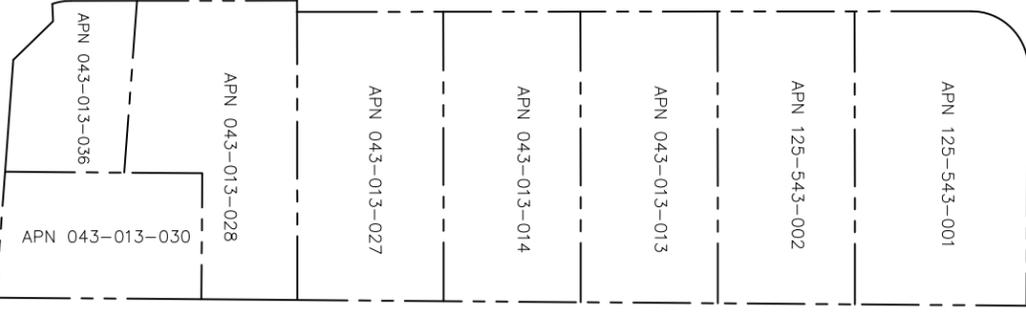


GLORIA

DRIVE



HEARN AVENUE



LEGEND

- PROPERTY/PARCEL BOUNDARY
- - - EASEMENT BOUNDARY
- PUE PUBLIC UTILITY EASEMENT
- APN ASSESSORS PARCEL NUMBER
- SPCSD SOUTH PARK COUNTY SANITATION DISTRICT
- S.C.R. SONOMA COUNTY OFFICIAL RECORDS
- XXX OR XXX BOOK AND PAGE (OFFICIAL RECORDS), S.C.R.
- XXX MAPS XXX BOOK AND PAGE (MAPS), S.C.R.
- DOC XX-XXXXXX DOCUMENT NUMBER, S.C.R.



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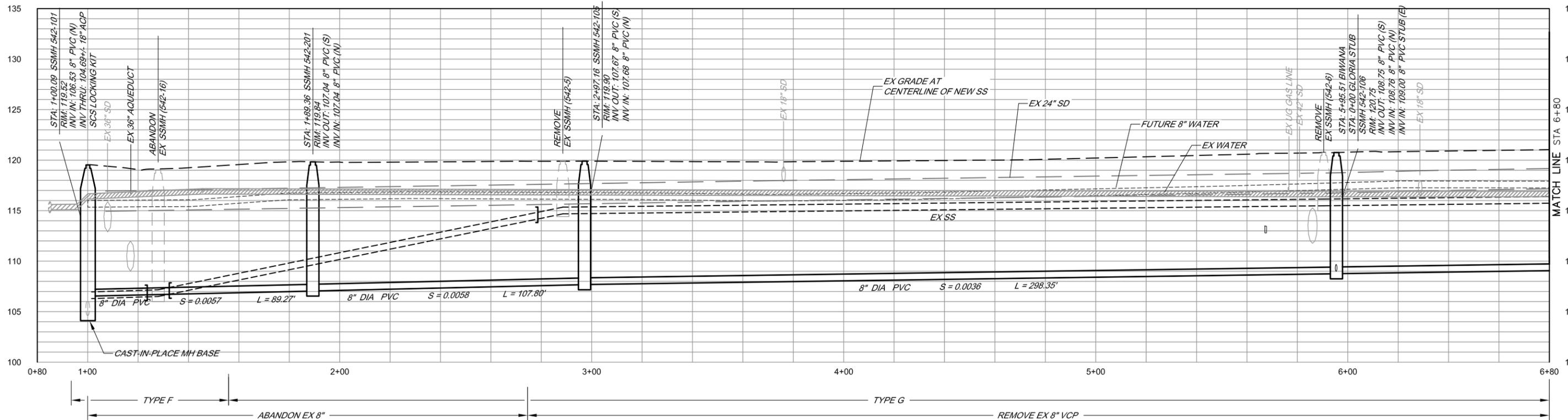
SOUTH PARK COUNTY SANITATION DISTRICT

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|------------------------------|-----------------|
| SCALE : AS SHOWN | DATE : 07/13/10 |
| DRAWN : JM | |
| REVIEWED : <i>Kent Coyne</i> | |

BIWANA DRIVE COLLECTION SYSTEM REPLACEMENT PROJECT
RIGHT-OF-WAY

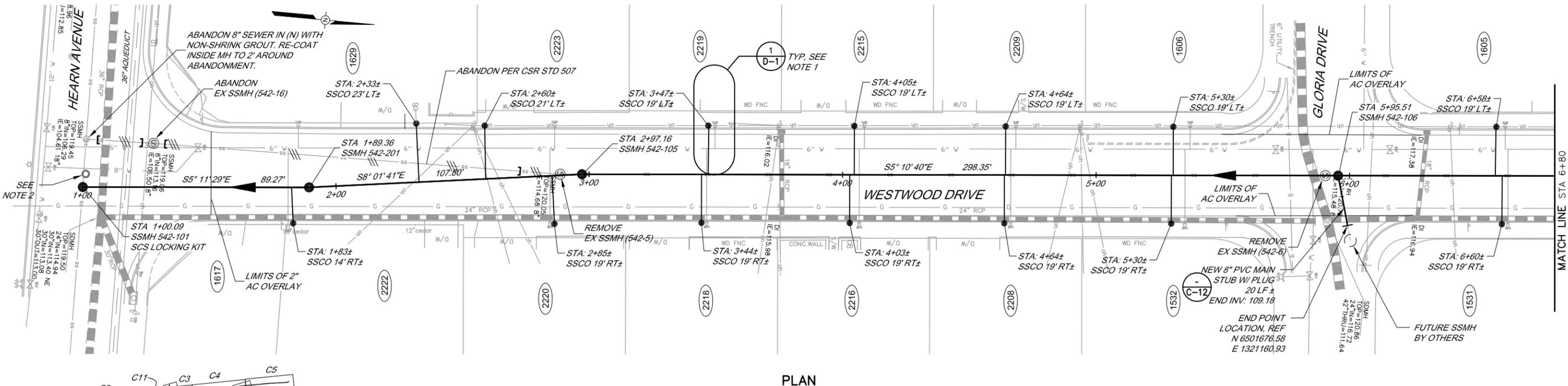
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BAR LENGTH ON ORIGINAL
DRAWING EQUALS ONE INCH.
ADJUST SCALE ACCORDINGLY



PROFILE

SCALE: HORIZ 1" = 20'
VERT 1" = 5'



PLAN

SCALE: 1" = 20'

- NOTE:**
1. TYPICAL WHERE EXISTING SEWER LATERAL IS LESS THAN 5.0 FEET CLEAR FROM CENTERLINE OF WATER METER BOX.
 2. REPLACE EX STREET CENTERLINE MONUMENT IF DISTURBED. CSR STDS 280, 281, 282.



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**SOUTH PARK COUNTY
SANITATION DISTRICT**

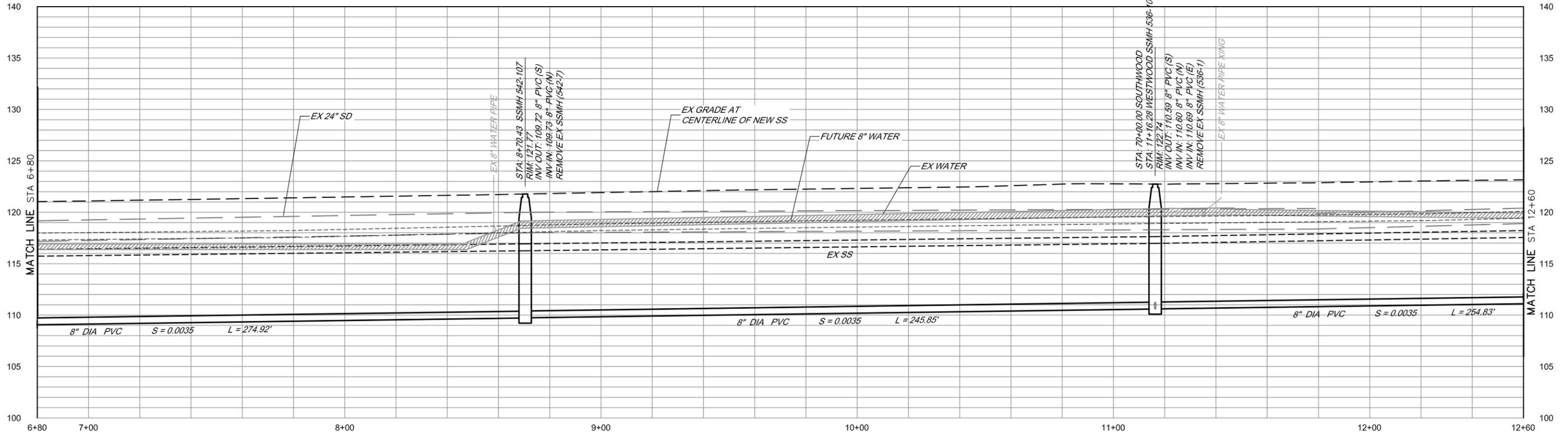
SCALE: AS SHOWN
DATE: 07/13/10
DRAWN: SP
REVIEWED: *Kent Goyke*

**BIWANA DRIVE COLLECTION SYSTEM REPLACEMENT PROJECT
PLAN AND PROFILE - WESTWOOD DRIVE
STA 1+00 TO STA 6+80**

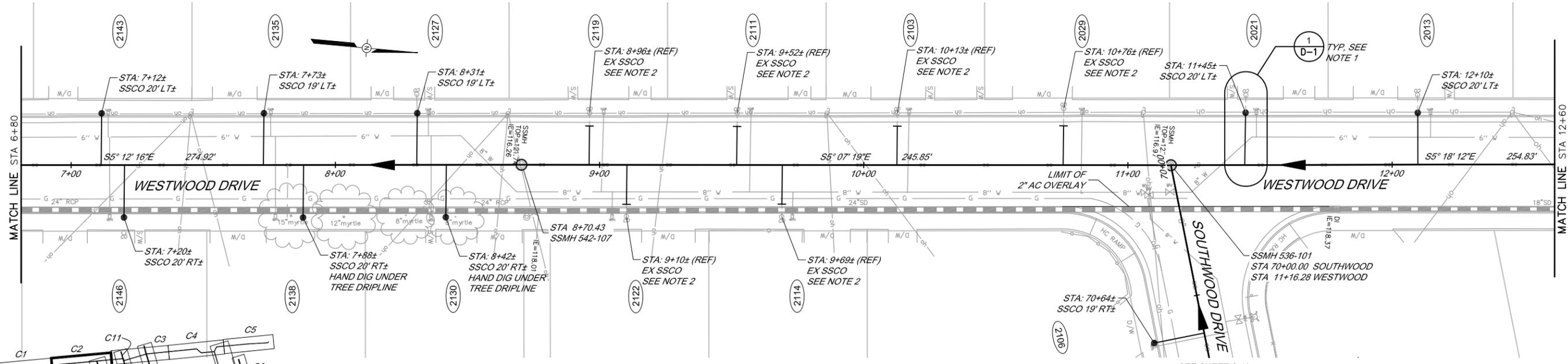
FILE NAME: 7140_C1-C12.dwg
CONTRACT NUMBER: -7#
DRAWING NUMBER: C-1
SHEET 8 OF 24

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BAR LENGTH ON ORIGINAL DRAWING EQUALS ONE INCH. ADJUST SCALE ACCORDINGLY

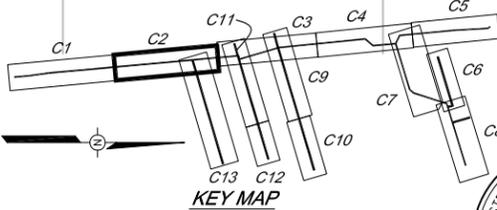


TYPE G
 REMOVE EX 8" VCP
PROFILE
 SCALE: HORIZ 1" = 20'
 VERT 1" = 5'



PLAN
 SCALE: 1" = 20'

- NOTE:**
1. TYPICAL WHERE EXISTING SEWER LATERAL IS LESS THAN 5.0 FEET CLEAR FROM CENTERLINE OF WATER METER BOX.
 2. CONNECT TO EXISTING SEWER LATERAL ON STREET SIDE OF GUTTER.



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**SOUTH PARK COUNTY
 SANITATION DISTRICT**

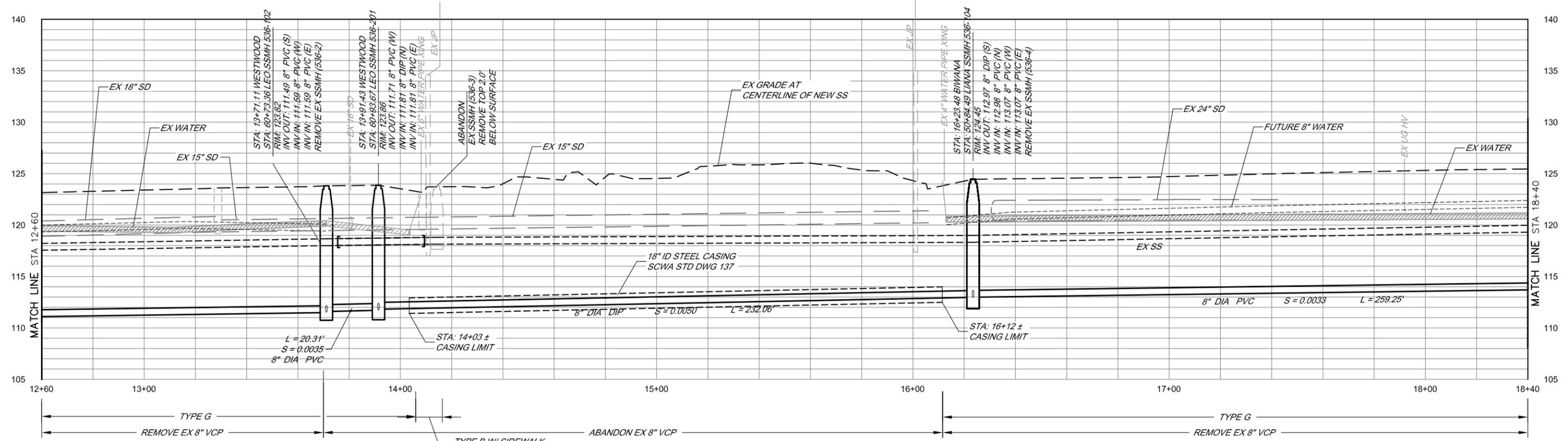
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|-----------------------------|----------------|
| SCALE: AS SHOWN | DATE: 07/13/10 |
| DRAWN: SP | |
| REVIEWED: <i>Kent Goyke</i> | |

**BIWANA DRIVE COLLECTION SYSTEM REPLACEMENT PROJECT
 PLAN AND PROFILE - WESTWOOD DRIVE
 STA 6+80 TO STA 12+60**

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| FILE NAME: 7140_C1-C12.dwg | DRAWING NUMBER: C-2 | SHEET 9 OF 24 |
| CONTRACT NUMBER: -7# | | |

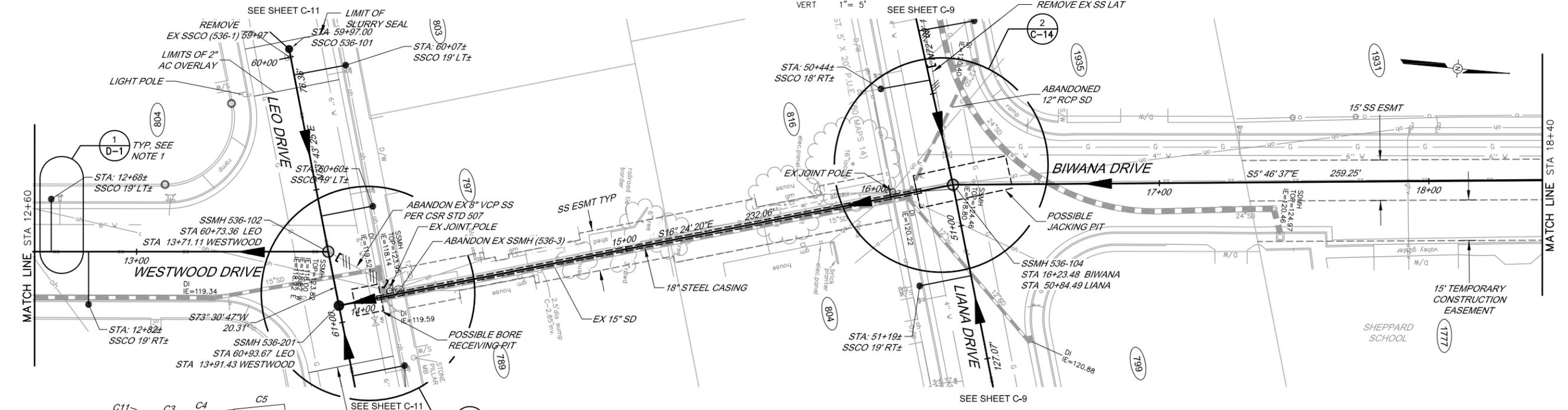
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BAR LENGTH ON ORIGINAL DRAWING EQUALS ONE INCH. ADJUST SCALE ACCORDINGLY



PROFILE

SCALE: HORIZ 1" = 20'
VERT 1" = 5'

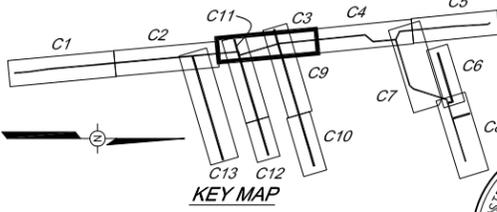


PLAN

SCALE: 1" = 20'

NOTE:

1. TYPICAL WHERE EXISTING SEWER LATERAL IS LESS THAN 5.0 FEET CLEAR FROM CENTERLINE OF WATER METER BOX.



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**SOUTH PARK COUNTY
SANITATION DISTRICT**

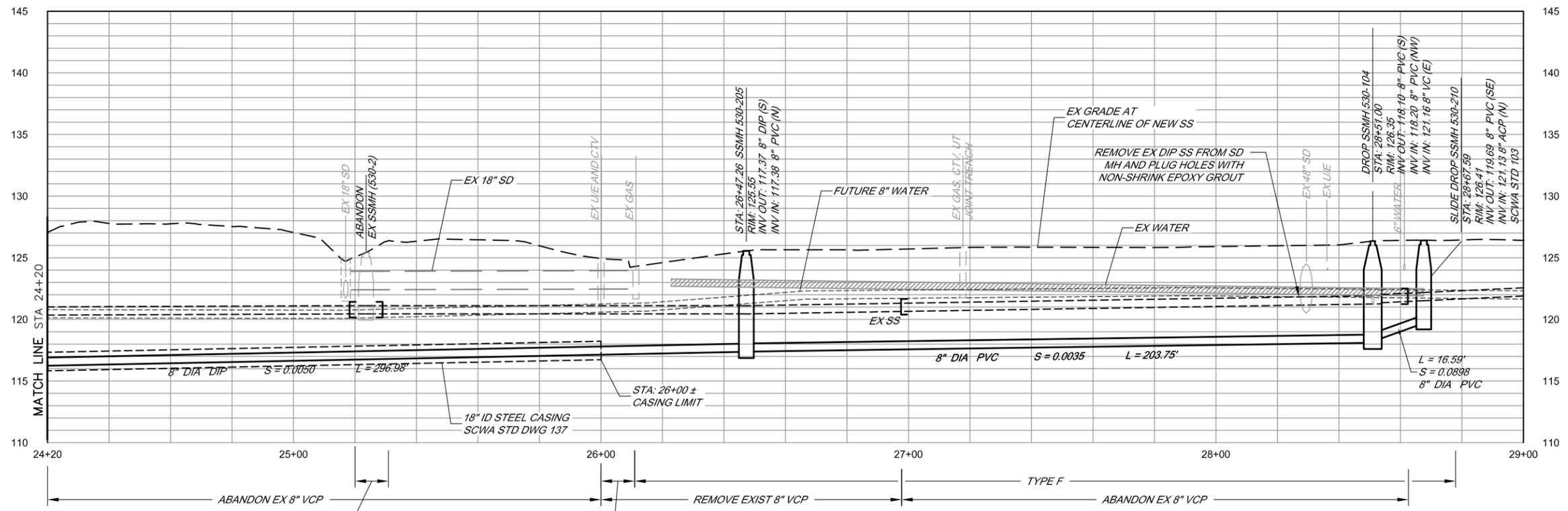
SCALE: AS SHOWN
DATE: 07/13/10
DRAWN: SP
REVIEWED: *Kent Coyne*

**BIWANA DRIVE COLLECTION SYSTEM REPLACEMENT PROJECT
PLAN AND PROFILE - WESTWOOD DRIVE TO BIWANA DRIVE
STA 12+60 TO STA 18+40**

FILE NAME: 7140_C1-C12.dwg
CONTRACT NUMBER: -7#
DRAWING NUMBER: C-3
SHEET 10 OF 24

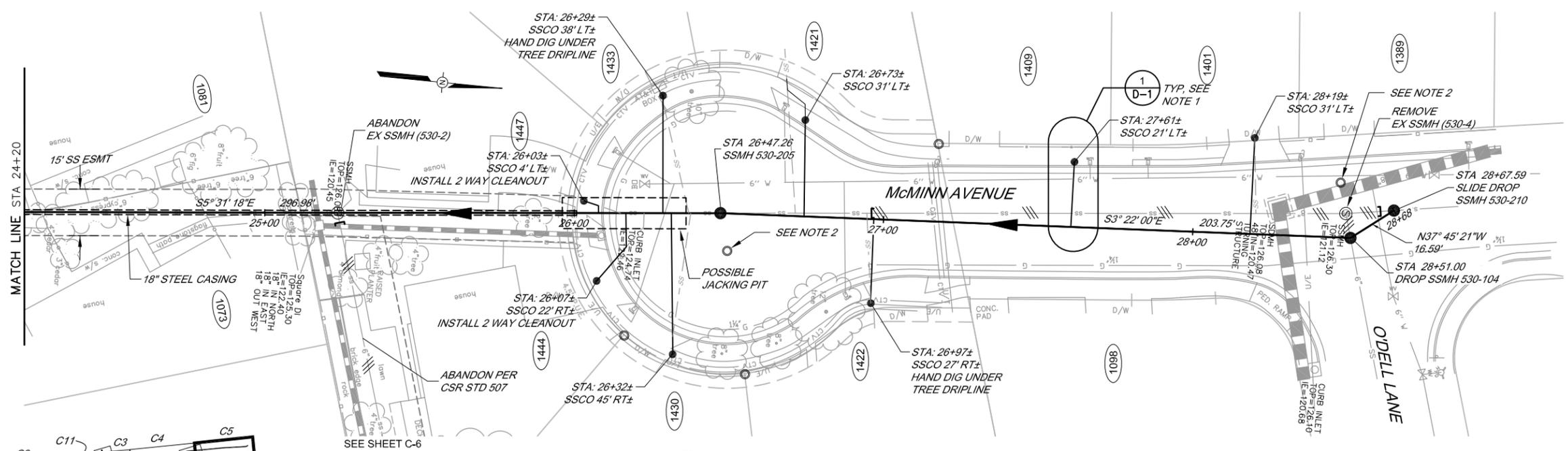
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BAR LENGTH ON ORIGINAL
DRAWING EQUALS ONE INCH.
ADJUST SCALE ACCORDINGLY



PROFILE

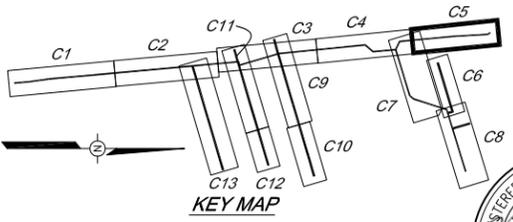
SCALE: HORIZ 1" = 20'
VERT 1" = 5'



PLAN

SCALE: 1" = 20'

- NOTE:**
1. TYPICAL WHERE EXISTING SEWER LATERAL IS LESS THAN 5.0 FEET CLEAR FROM CENTERLINE OF WATER METER BOX.
 2. REPLACE EX STREET MONUMENT IF DISTURBED. CSR STDS 280, 281, 282



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**SOUTH PARK COUNTY
SANITATION DISTRICT**

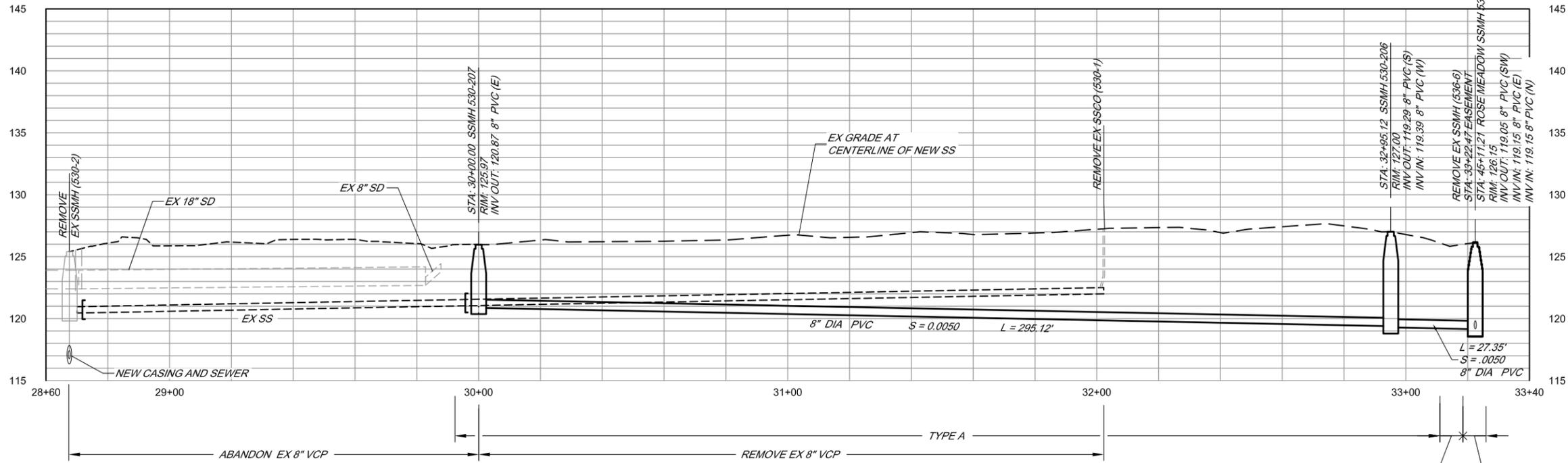
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|-----------------------------|----------------|
| SCALE: AS SHOWN | DATE: 07/13/10 |
| DRAWN: SP | |
| REVIEWED: <i>Kent Goyke</i> | |

**BIWANA DRIVE COLLECTION SYSTEM REPLACEMENT PROJECT
PLAN AND PROFILE - McMINN AVENUE
STA 24+20 TO STA 28+67.59**

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|----------------------------|---------------------|----------------|
| FILE NAME: 7140_C1-C12.dwg | DRAWING NUMBER: C-5 | SHEET 12 OF 24 |
| CONTRACT NUMBER: -7# | | |

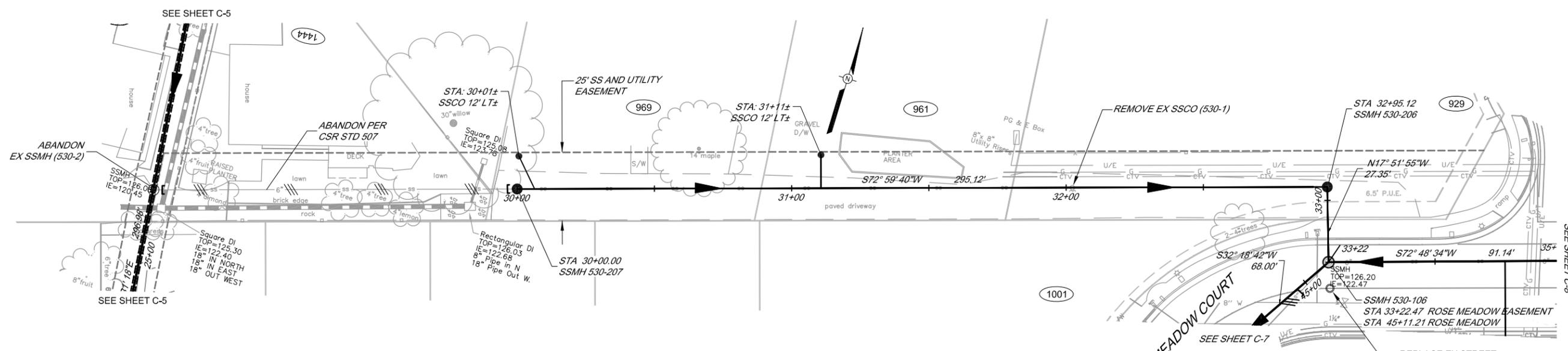
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BAR LENGTH ON ORIGINAL DRAWING EQUALS ONE INCH. ADJUST SCALE ACCORDINGLY



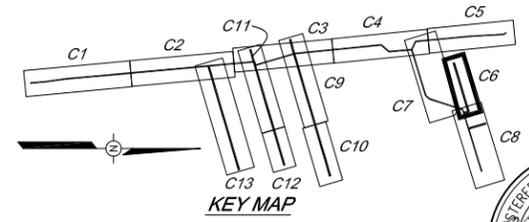
PROFILE

SCALE: HORIZ 1" = 20'
 VERT 1" = 5'



PLAN

SCALE: 1" = 20'



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**SOUTH PARK COUNTY
 SANITATION DISTRICT**

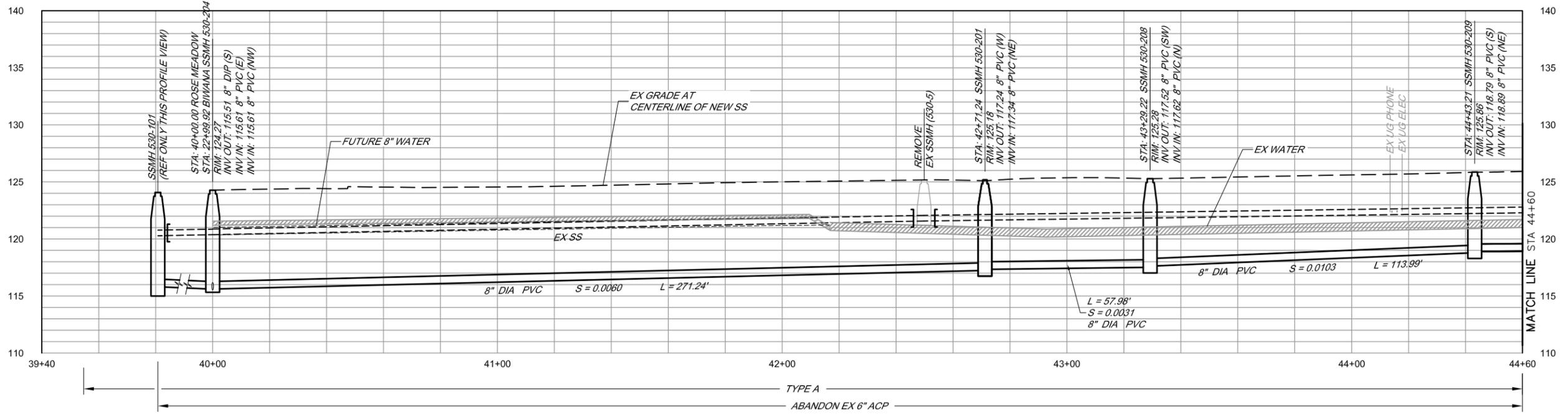
SCALE: AS SHOWN DATE: 07/13/10
 DRAWN: SP
 REVIEWED: *Kent Goyke*

**BIWANA DRIVE COLLECTION SYSTEM REPLACEMENT PROJECT
 PLAN AND PROFILE - ROSE MEADOW EASEMENT
 STA 30+00 TO STA 33+22.47**

FILE NAME: 7140_C1-C12.dwg DRAWING NUMBER: C-6 SHEET 13 OF 24
 CONTRACT NUMBER: -7#

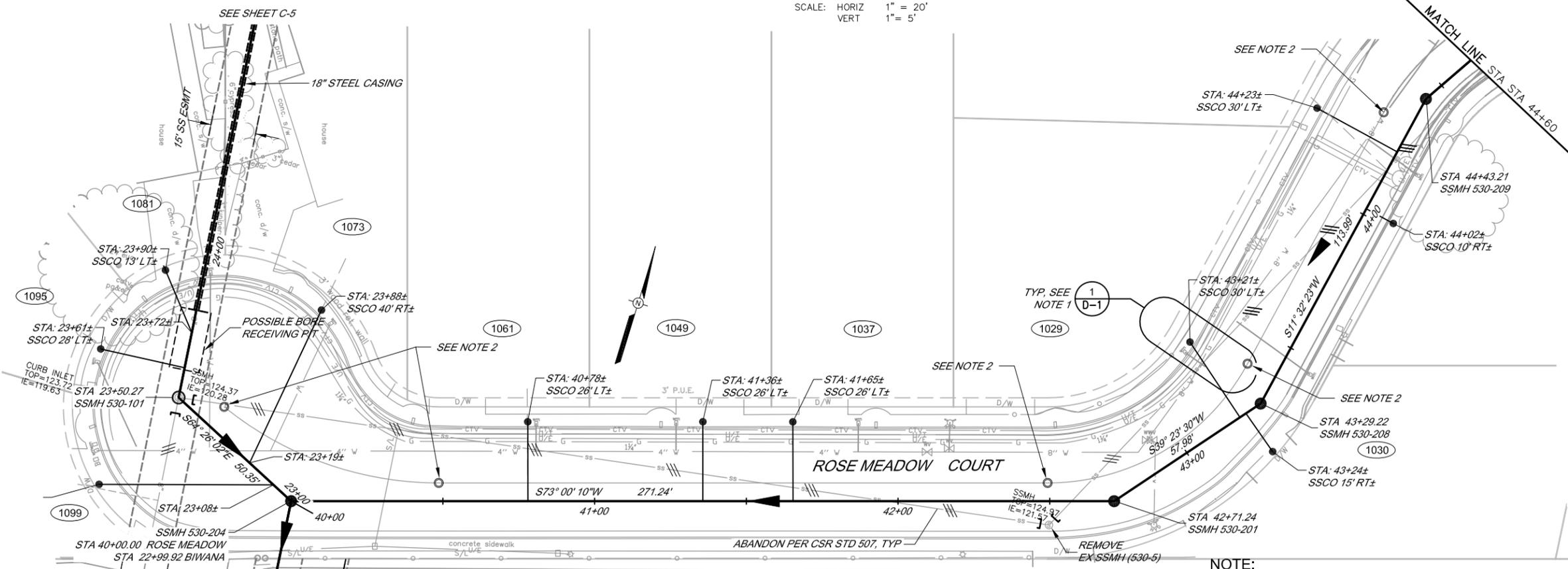
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BAR LENGTH ON ORIGINAL
 DRAWING EQUALS ONE INCH.
 ADJUST SCALE ACCORDINGLY



PROFILE

SCALE: HORIZ 1" = 20'
VERT 1" = 5'

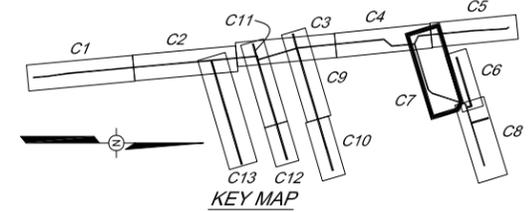


PLAN

SCALE: 1" = 20'

NOTE:

1. TYPICAL WHERE EXISTING SEWER LATERAL IS LESS THAN 5.0 FEET CLEAR FROM CENTERLINE OF WATER METER BOX.
2. REPLACE EX STREET MONUMENT IF DISTURBED. CSR STDS 280, 281, 282



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**SOUTH PARK COUNTY
SANITATION DISTRICT**

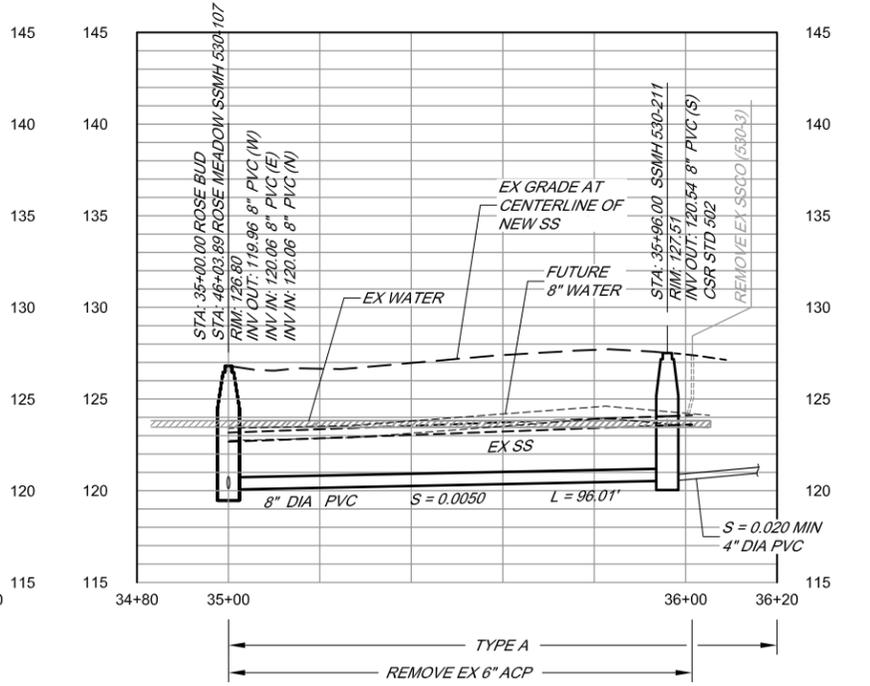
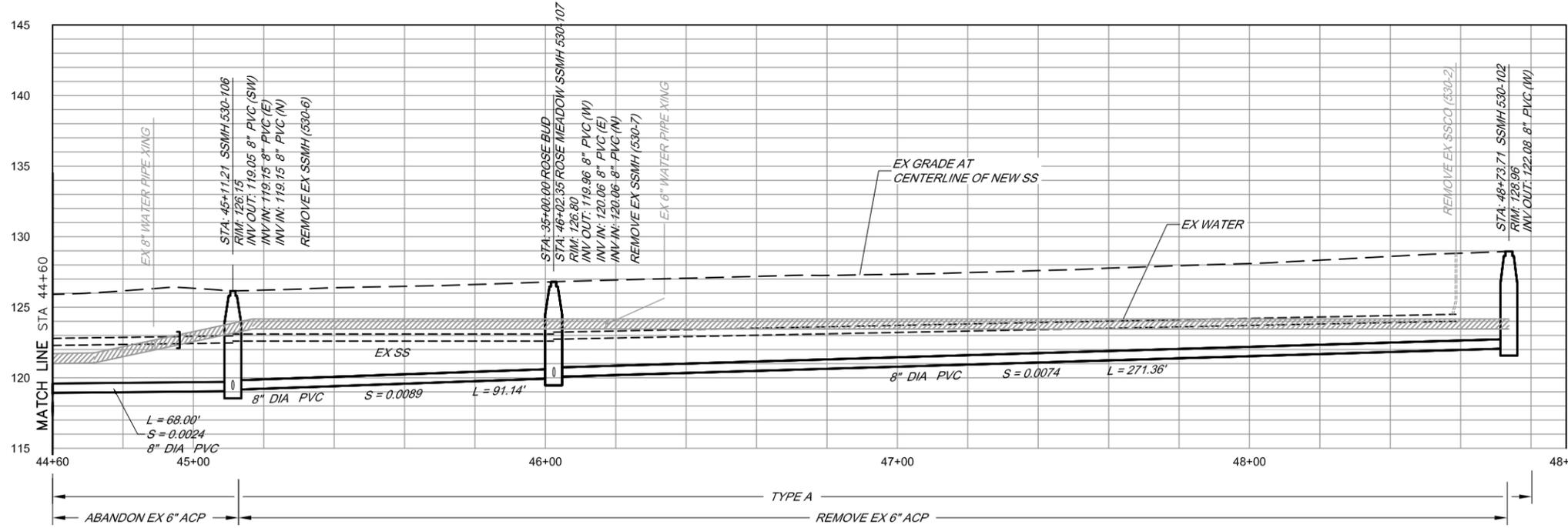
SCALE: AS SHOWN DATE: 07/13/10
DRAWN: SP
REVIEWED: *Kent Goyke*

**BIWANA DRIVE COLLECTION SYSTEM REPLACEMENT PROJECT
PLAN AND PROFILE - ROSE MEADOW COURT
STA 40+00 TO STA 44+60**

FILE NAME: 7140_C1-C12.dwg CONTRACT NUMBER: -7# DRAWING NUMBER: C-7 SHEET 14 OF 24

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BAR LENGTH ON ORIGINAL DRAWING EQUALS ONE INCH. ADJUST SCALE ACCORDINGLY

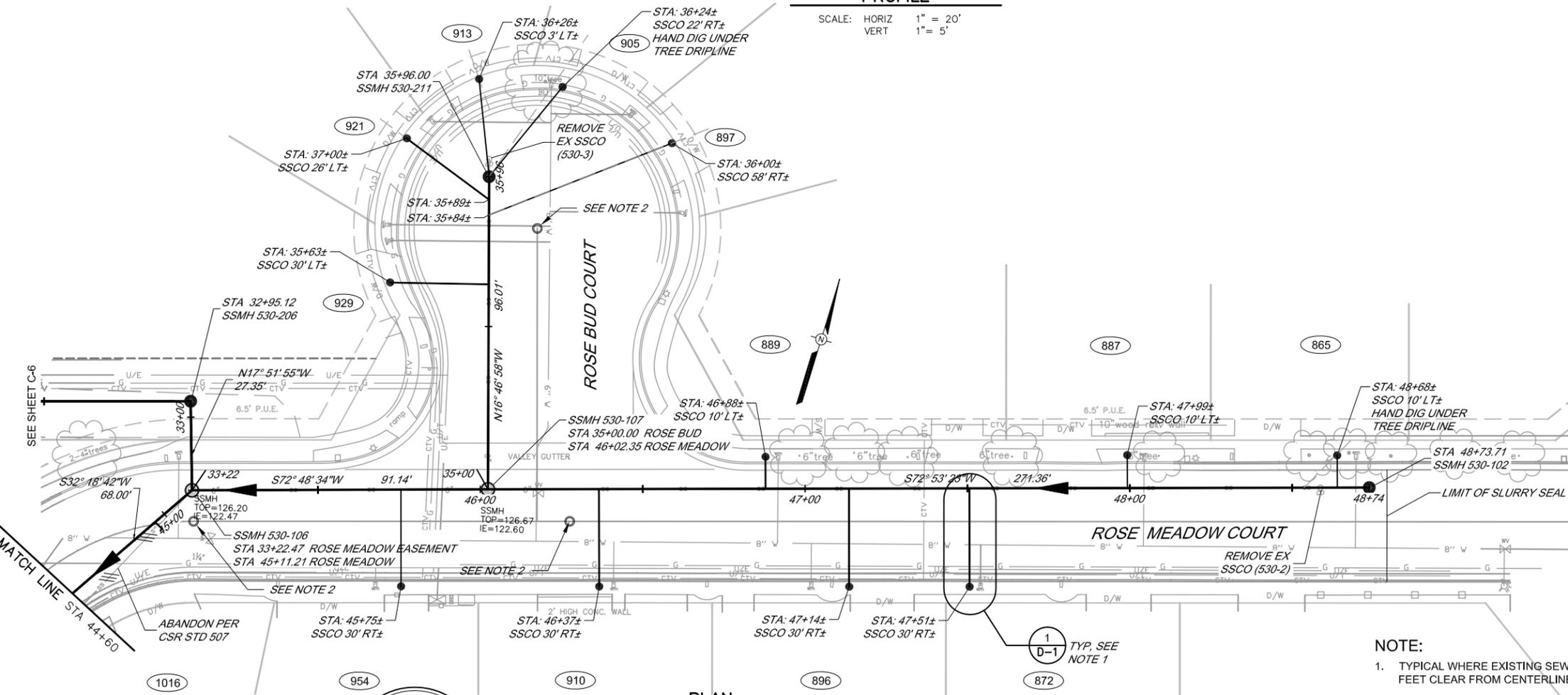


PROFILE

SCALE: HORIZ 1" = 20'
VERT 1" = 5'

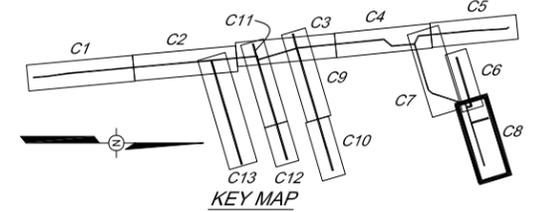
PROFILE - ROSE BUD COURT

SCALE: HORIZ 1" = 20'
VERT 1" = 5'



PLAN

SCALE: 1" = 20'



- NOTE:**
1. TYPICAL WHERE EXISTING SEWER LATERAL IS LESS THAN 5.0 FEET CLEAR FROM CENTERLINE OF WATER METER BOX.
 2. REPLACE EX STREET MONUMENT IF DISTURBED. CSR STDS 280, 281, 282



**SOUTH PARK COUNTY
SANITATION DISTRICT**

SCALE: AS SHOWN
DATE: 07/13/10
DRAWN: SP
REVIEWED: *Kent Goyke*

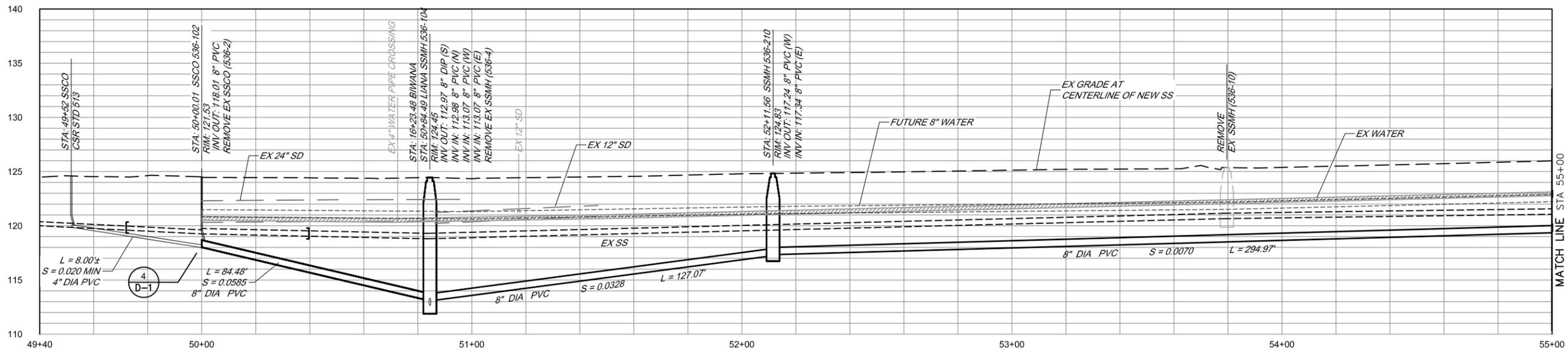
**BIWANA DRIVE COLLECTION SYSTEM REPLACEMENT PROJECT
PLAN AND PROFILE - ROSE MEADOW COURT STA 44+60 TO
STA 48+73.71 & ROSE BUD COURT STA 35+00 TO 35+96**

FILE NAME: 7140_C1-C12.dwg
CONTRACT NUMBER: -7#
DRAWING NUMBER: C-8
SHEET 15 OF 24

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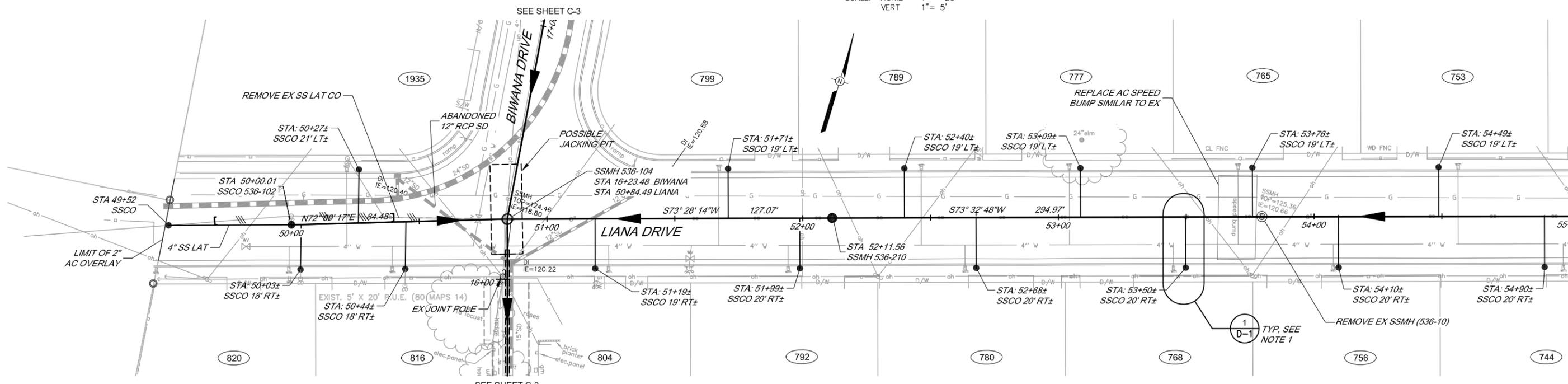
BAR LENGTH ON ORIGINAL
DRAWING EQUALS ONE INCH.
ADJUST SCALE ACCORDINGLY



TYPE G
 REMOVE EX 6" ACP
 REMOVE EX 4" ACP
 ABANDON EX 4" ACP
 ABANDON EX 6" ACP

PROFILE

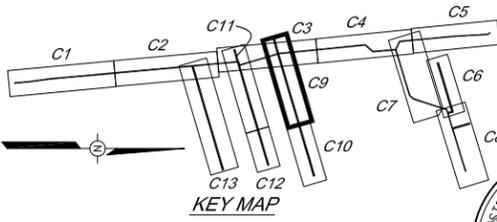
SCALE: HORIZ 1" = 20'
 VERT 1" = 5'



PLAN

SCALE: 1" = 20'

NOTE:
 1. TYPICAL WHERE EXISTING SEWER LATERAL IS LESS THAN 5.0 FEET CLEAR FROM CENTERLINE OF WATER METER BOX.



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**SOUTH PARK COUNTY
 SANITATION DISTRICT**

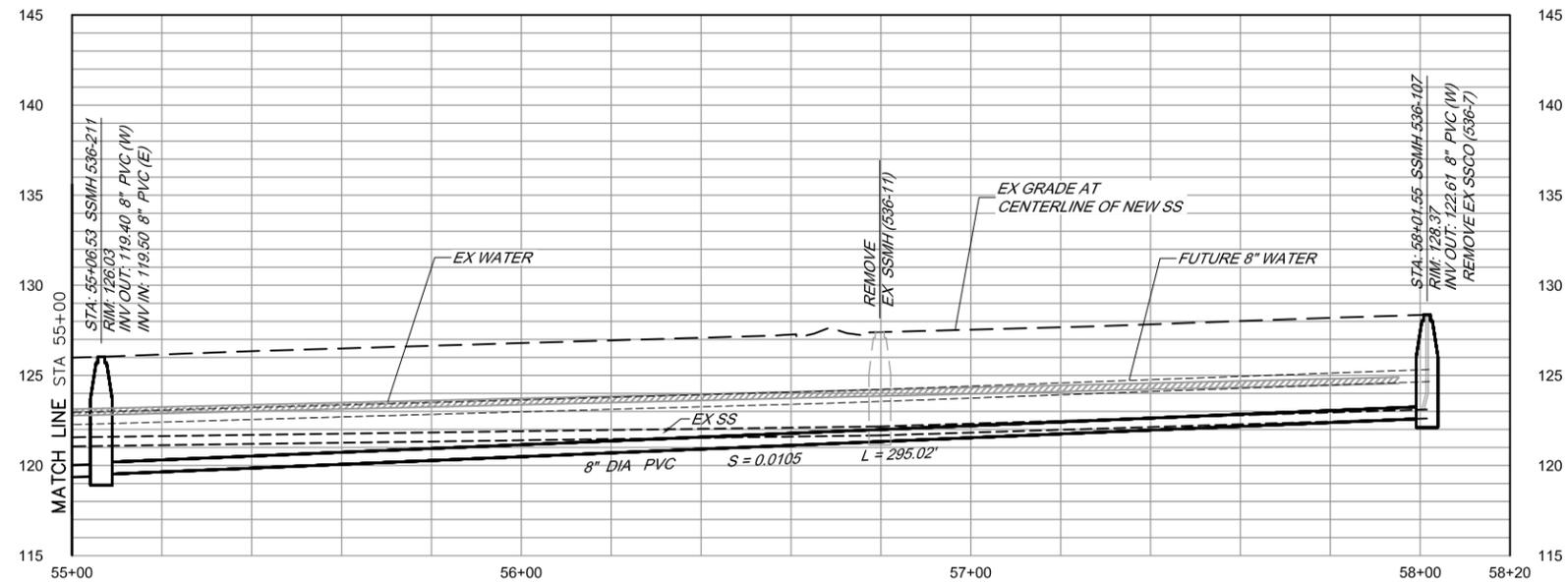
SCALE: AS SHOWN
 DATE: 07/13/10
 DRAWN: SP
 REVIEWED: *Kent Goyke*

**BIWANA DRIVE COLLECTION SYSTEM REPLACEMENT PROJECT
 PLAN AND PROFILE - LIANA DRIVE
 STA 50+00 TO STA 55+00**

FILE NAME: 7140_C1-C12.dwg
 CONTRACT NUMBER: -7#
 DRAWING NUMBER: C-9
 SHEET 16 OF 24

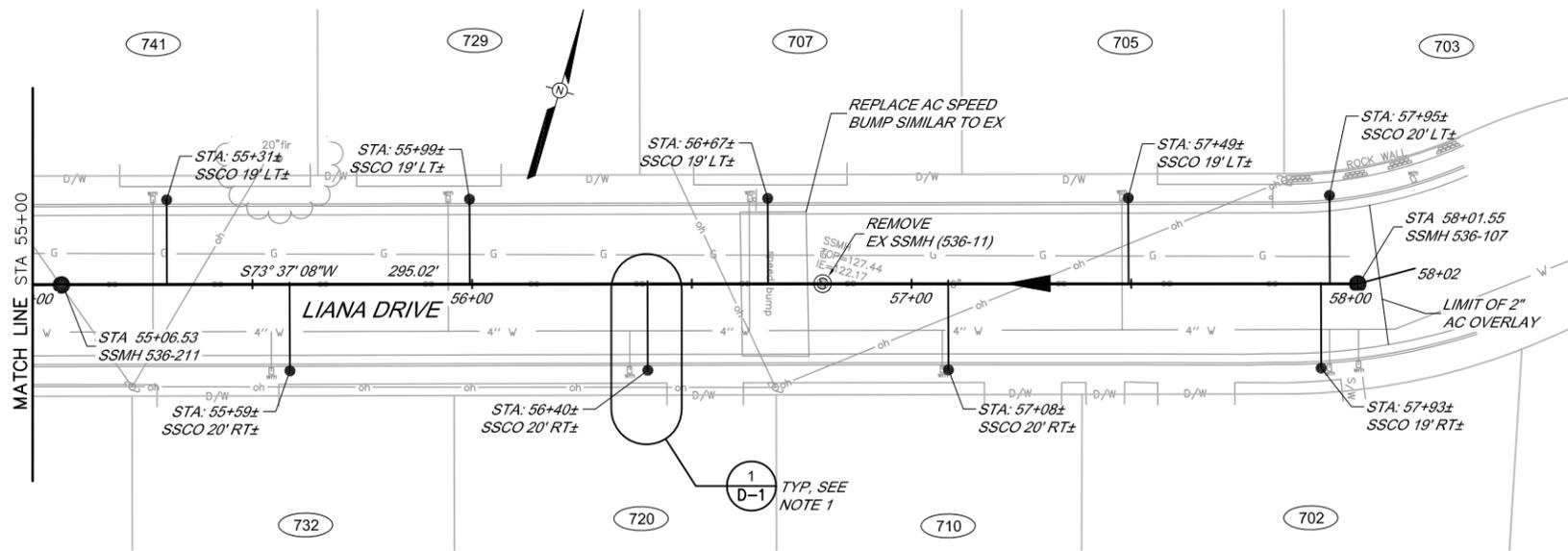
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BAR LENGTH ON ORIGINAL
 DRAWING EQUALS ONE INCH.
 ADJUST SCALE ACCORDINGLY



PROFILE

SCALE: HORIZ 1" = 20'
 VERT 1" = 5'

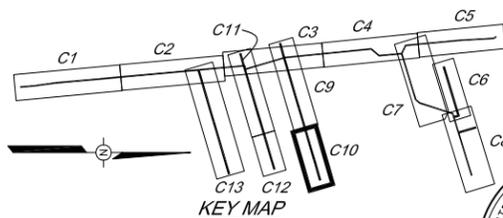


PLAN

SCALE: 1" = 20'

NOTE:

1. TYPICAL WHERE EXISTING SEWER LATERAL IS LESS THAN 5.0 FEET CLEAR FROM CENTERLINE OF WATER METER BOX.



BAR LENGTH ON ORIGINAL DRAWING EQUALS ONE INCH. ADJUST SCALE ACCORDINGLY

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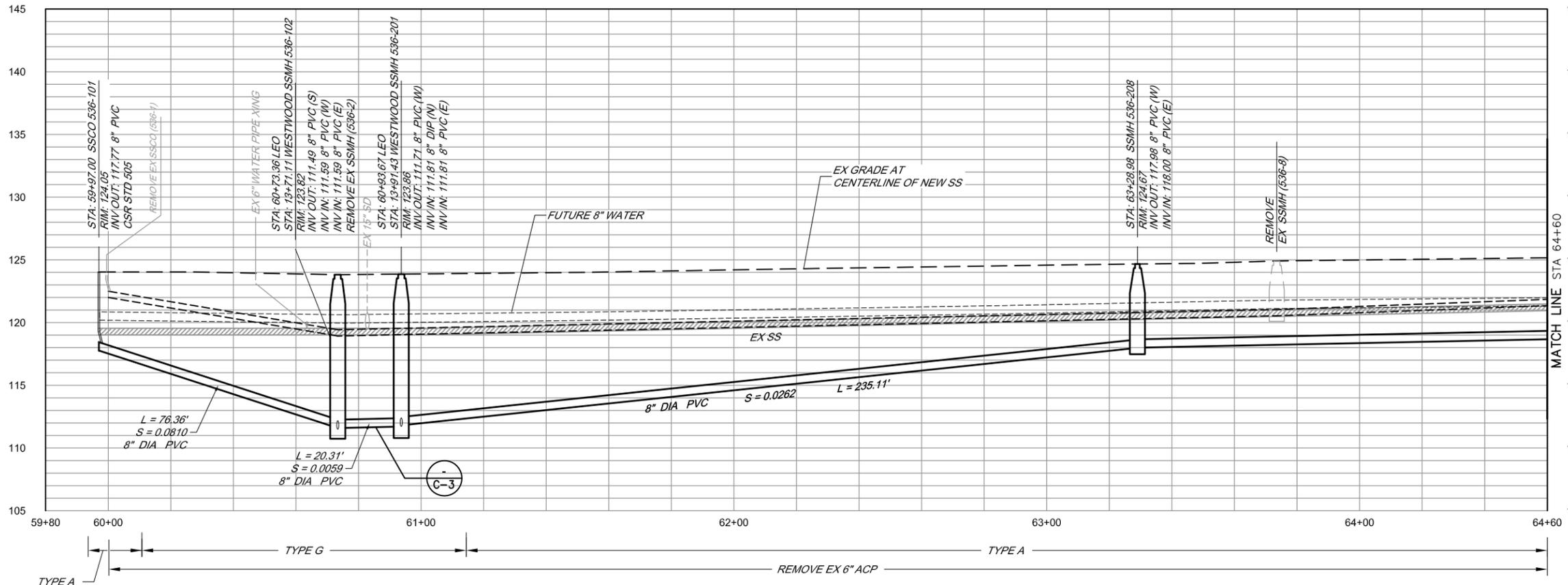
**SOUTH PARK COUNTY
 SANITATION DISTRICT**

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| SCALE: AS SHOWN | DATE: 07/13/10 |
| DRAWN: SP | |
| REVIEWED: <i>Kent Coyne</i> | |

**BIWANA DRIVE COLLECTION SYSTEM REPLACEMENT PROJECT
 PLAN AND PROFILE - LIANA DRIVE
 STA 55+00 TO STA 58+01.56**

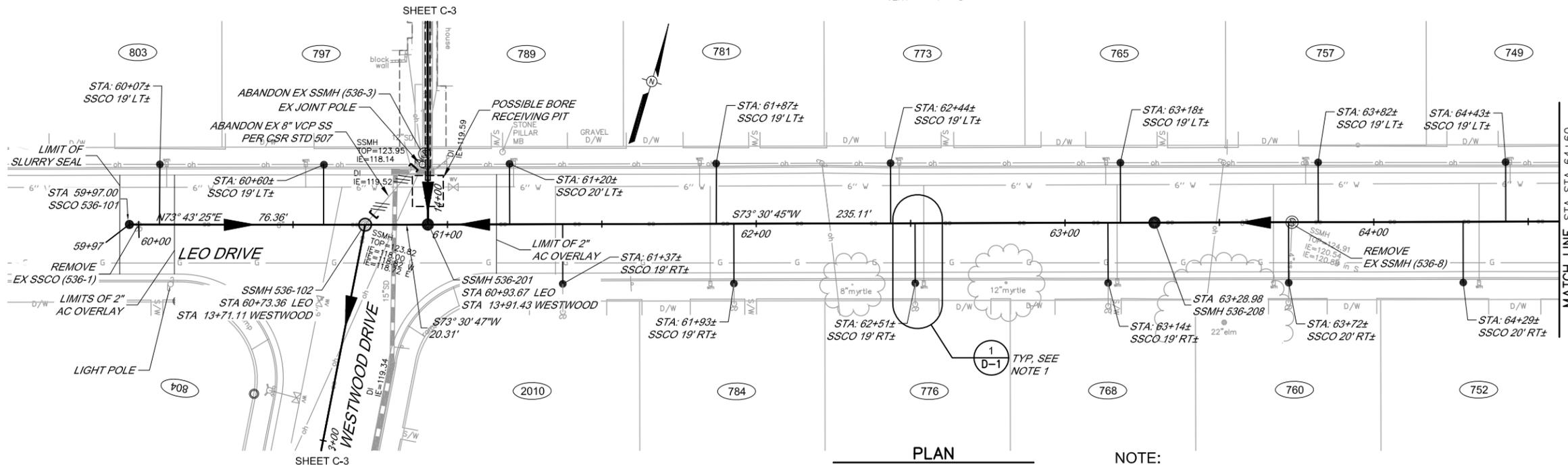
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| FILE NAME: 7140_C1-C12.dwg | DRAWING NUMBER: C-10 | SHEET 17 OF 24 |
| CONTRACT NUMBER: -7# | | |

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PROFILE

SCALE: HORIZ 1" = 20'
VERT 1" = 5'

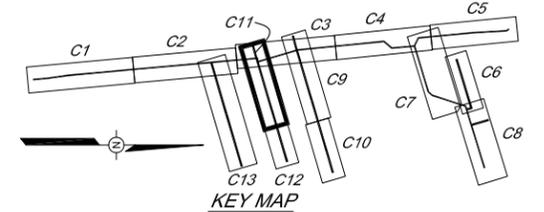


PLAN

SCALE: 1" = 20'

NOTE:

1. TYPICAL WHERE EXISTING SEWER LATERAL IS LESS THAN 5.0 FEET CLEAR FROM CENTERLINE OF WATER METER BOX.



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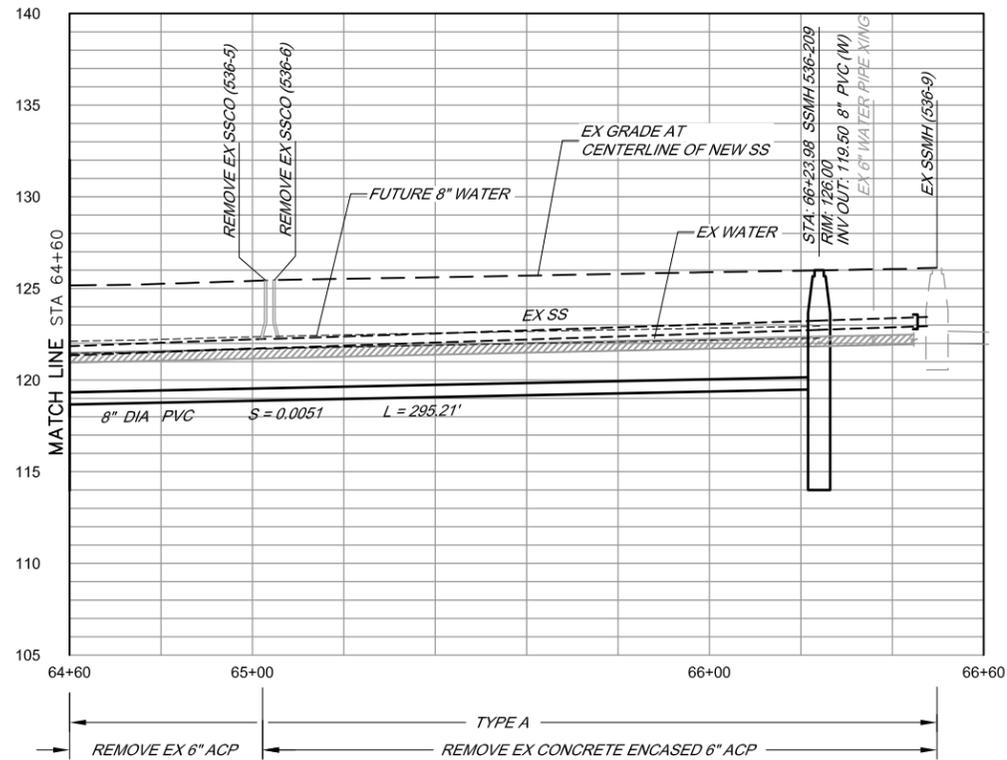
**SOUTH PARK COUNTY
SANITATION DISTRICT**

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| SCALE: AS SHOWN | DATE: 07/13/10 |
| DRAWN: SP | |
| REVIEWED: <i>Kent Coyne</i> | |

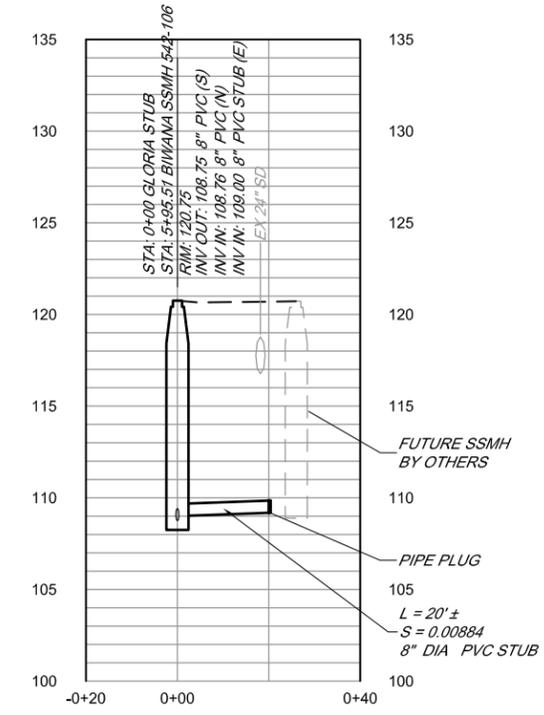
**BIWANA DRIVE COLLECTION SYSTEM REPLACEMENT PROJECT
PLAN AND PROFILE - LEO DRIVE
STA 59+97 TO STA 64+60**

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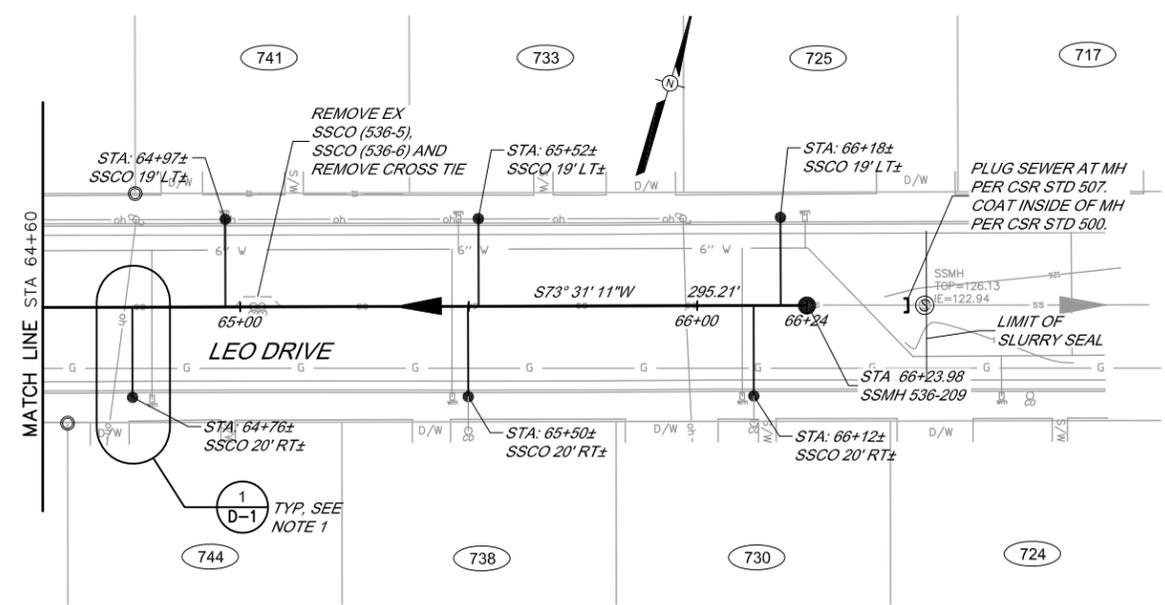
BAR LENGTH ON ORIGINAL
DRAWING EQUALS ONE INCH.
ADJUST SCALE ACCORDINGLY



PROFILE
 SCALE: HORIZ 1" = 20'
 VERT 1" = 5'

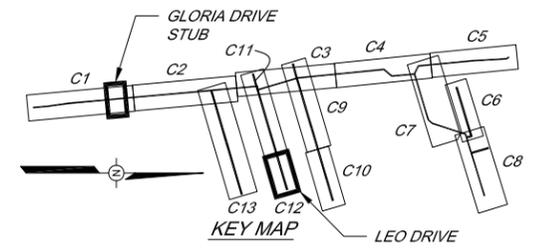


PROFILE - GLORIA STUB
 SCALE: HORIZ 1" = 20'
 VERT 1" = 5'



PLAN
 SCALE: 1" = 20'

NOTE:
 1. TYPICAL WHERE EXISTING SEWER LATERAL IS LESS THAN 5.0 FEET CLEAR FROM CENTERLINE OF WATER METER BOX.



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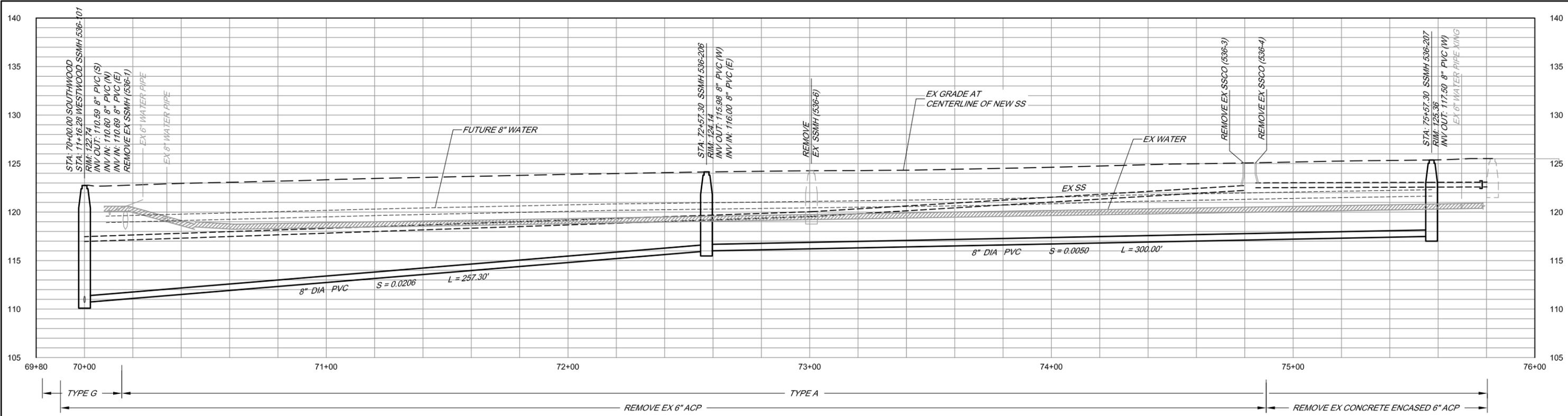
**SOUTH PARK COUNTY
 SANITATION DISTRICT**

SCALE: AS SHOWN DATE: 07/13/10
 DRAWN: SP
 REVIEWED: *Kent Coyne*

**BIWANA DRIVE COLLECTION SYSTEM REPLACEMENT PROJECT
 PLAN AND PROFILE - LEO DRIVE STA 64+60 TO STA 66+49.77
 AND GLORIA DRIVE STUB**
 FILE NAME: 7140_C1-C12.dwg DRAWING NUMBER: C-12 SHEET 19 OF 24
 CONTRACT NUMBER: -7 #

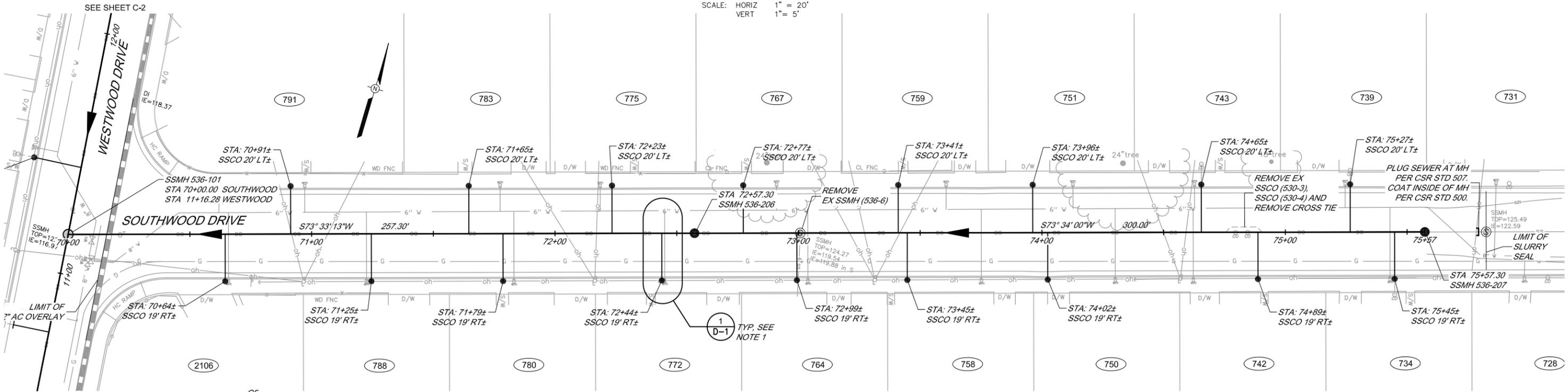
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BAR LENGTH ON ORIGINAL
 DRAWING EQUALS ONE INCH.
 ADJUST SCALE ACCORDINGLY



PROFILE

SCALE: HORIZ 1" = 20'
VERT 1" = 5'



PLAN

SCALE: 1" = 20'

NOTE:
1. TYPICAL WHERE EXISTING SEWER LATERAL IS LESS THAN 5.0 FEET CLEAR FROM CENTERLINE OF WATER METER BOX.



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**SOUTH PARK COUNTY
SANITATION DISTRICT**

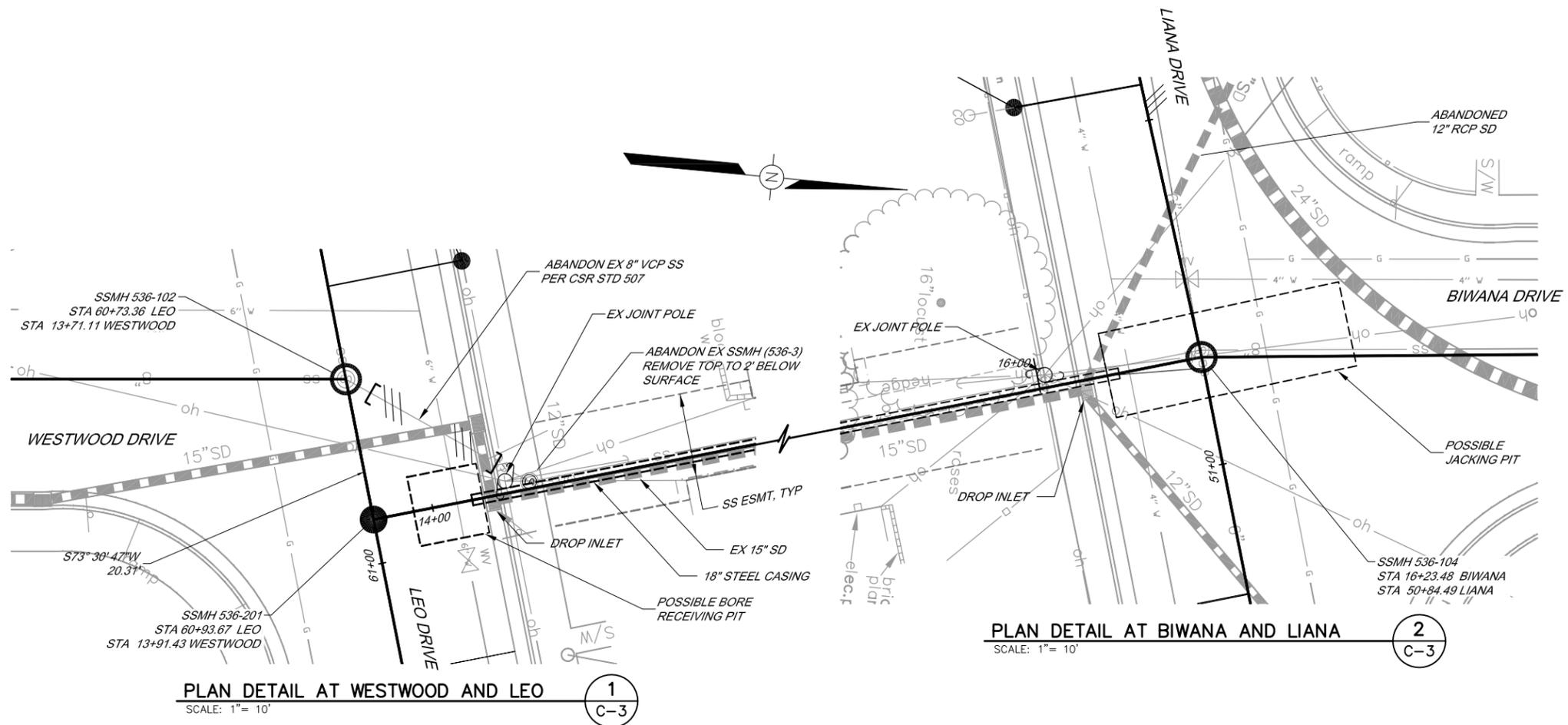
SCALE: AS SHOWN
DATE: 07/13/10
DRAWN: SP
REVIEWED: *Kent Goyke*

**BIWANA DRIVE COLLECTION SYSTEM REPLACEMENT PROJECT
PLAN AND PROFILE - SOUTHWOOD DRIVE
STA 70+00 TO STA 75+82.50**

FILE NAME: 7140_C1-C12.dwg
CONTRACT NUMBER: -7#
DRAWING NUMBER: C-13
SHEET 20 OF 24

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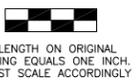
BAR LENGTH ON ORIGINAL DRAWING EQUALS ONE INCH. ADJUST SCALE ACCORDINGLY



PLAN DETAIL AT WESTWOOD AND LEO
 SCALE: 1" = 10'
 1
 C-3

PLAN DETAIL AT BIWANA AND LIANA
 SCALE: 1" = 10'
 2
 C-3

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BAR LENGTH ON ORIGINAL
 DRAWING EQUALS ONE INCH.
 ADJUST SCALE ACCORDINGLY



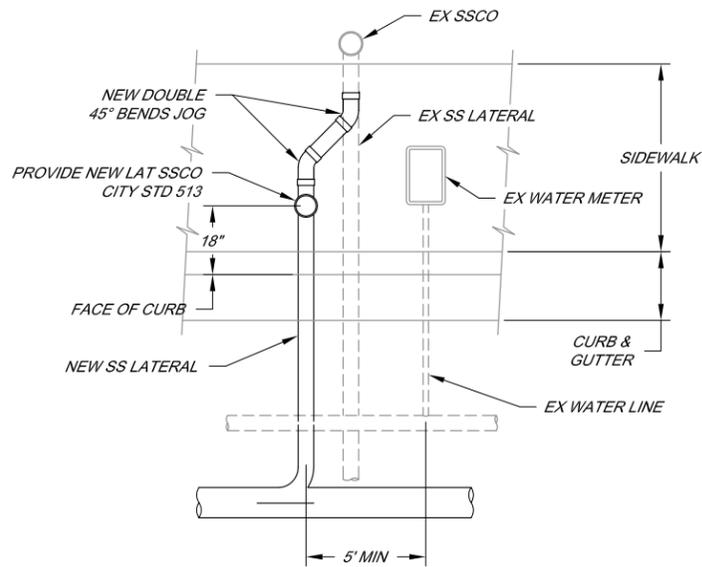
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**SOUTH PARK COUNTY
 SANITATION DISTRICT**

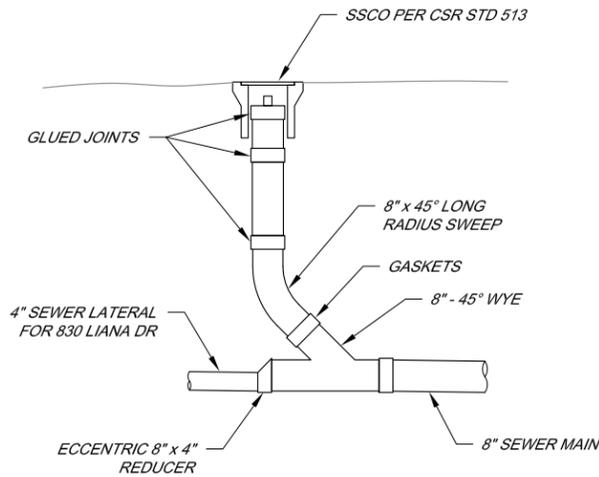
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| SCALE: AS SHOWN | DATE: 07/13/10 |
| DRAWN: SP | |
| REVIEWED: <i>Kent Coyne</i> | |

**BIWANA DRIVE COLLECTION SYSTEM REPLACEMENT PROJECT
 CIVIL DETAILS**

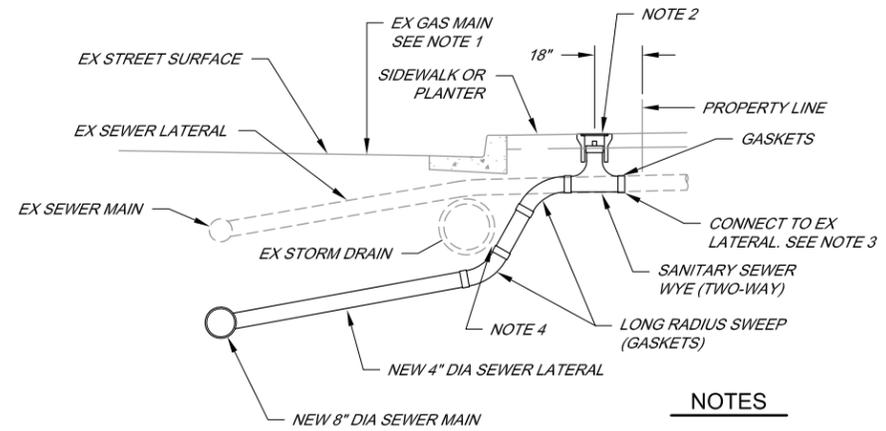
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| FILE NAME: 7140_C1-C12.dwg | DRAWING NUMBER: C-14 | SHEET 21 OF 24 |
| CONTRACT NUMBER: -7# | | |



LATERALS NEAR WATER LINE (1)
NOT TO SCALE



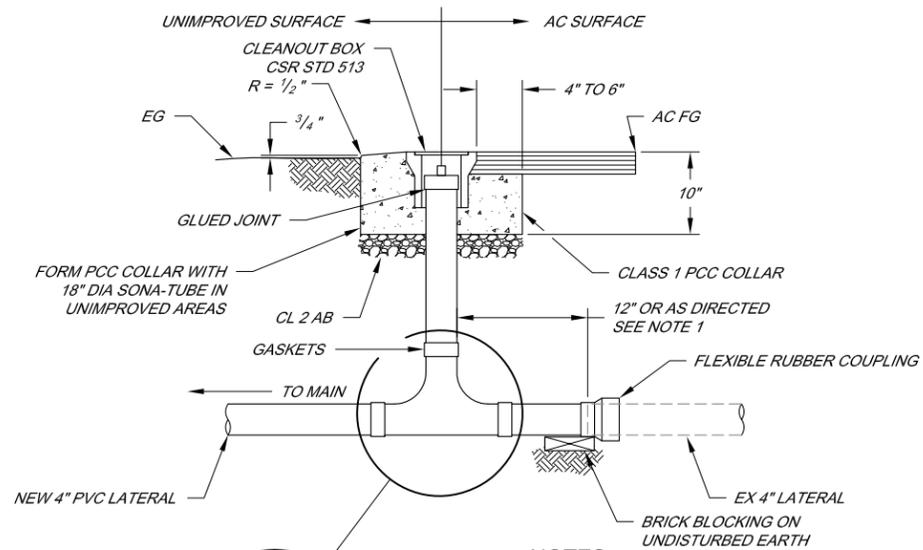
DETAIL - SSCO 536-102 (4)
NOT TO SCALE



ALTERNATE A

NOTES

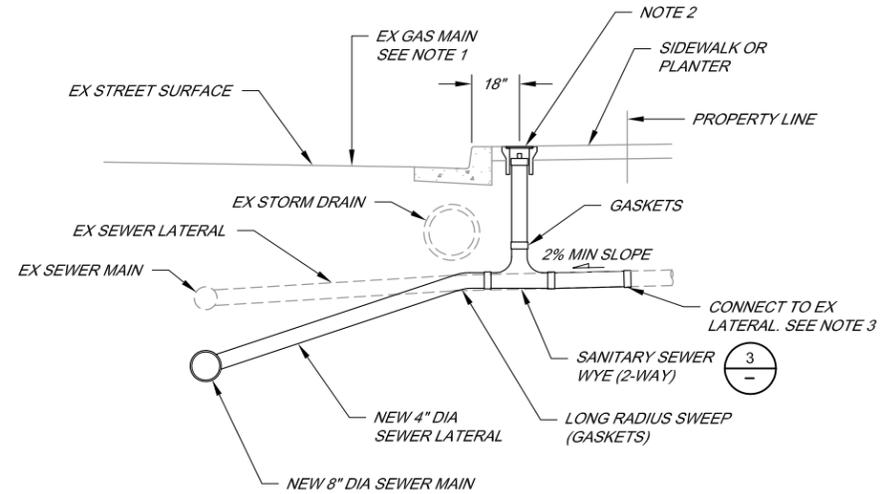
1. VERIFY LOCATION OF GAS MAIN PRIOR TO LATERAL INSTALLATION.
2. CLEANOUT PER CITY OF SANTA ROSA STANDARD 513.
3. DETERMINE DEPTH OF EXISTING LATERAL PRIOR TO SELECTING ALTERNATIVE ALIGNMENT FOR NEW LATERAL.
4. CSR STD 517, NOTE 1.



NOTES

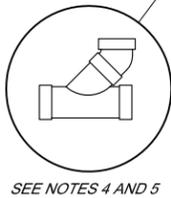
1. WHERE THE ELBOW CONNECTION TO THE EXISTING LATERAL IS AT AN ANGLE, USE A22.5° ELBOW TO MAKE ALIGNMENT TRANSITION.
2. WHERE GREATER THAN 22.5° ELBOW IS REQUIRED USE A 45° LONG RADIUS SWEEP AS DIRECTED BY THE ENGINEER. SEWER LATERAL INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF CITY STD 513 IN ALL OTHER WAYS.
3. TWO-WAY CLEANOUTS ARE TO BE INSTALLED TO DEPTHS OF 5.0'. USE ONE-WAY CLEANOUT FOR LATERALS DEEPER THAN 5.0'.
4. USE A ONE-WAY CLEANOUT WHERE THE RISER MUST BE INSTALLED GREATER THAN 5' DEEP UNLESS OTHERWISE INDICATED OR DIRECTED BY OWNER.
5. ALL CLEANOUTS PLACED IN DIRT WITH NO SIDEWALK MUST HAVE CONCRETE COLLAR.

SEWER LATERAL CLEANOUT WITH PCC COLLAR (3)
(CLEANOUTS LOCATED WITHIN A PLANTER AREA OR DRIVEWAY)
NOT TO SCALE



ALTERNATE B

SEWER LATERALS CROSSING EXISTING STORM DRAIN (2)
NOT TO SCALE



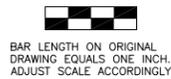
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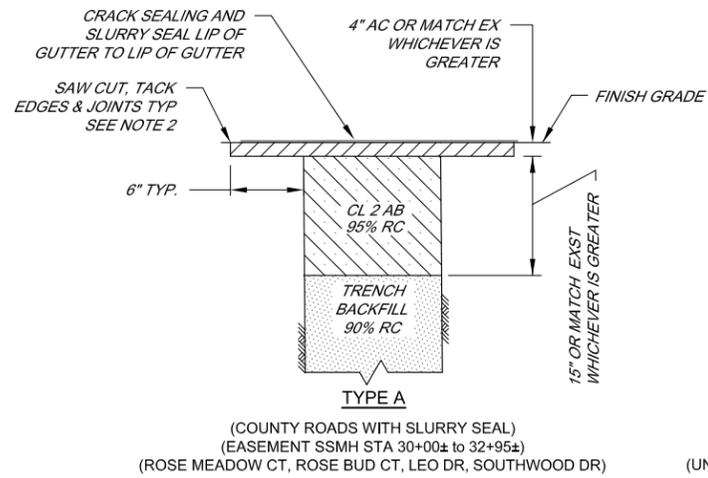
**SOUTH PARK COUNTY
SANITATION DISTRICT**

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| SCALE : | DATE : |
| NONE | 07/13/10 |
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| SP | |
| REVIEWED : | |
| <i>Kent</i> | <i>Guy</i> |

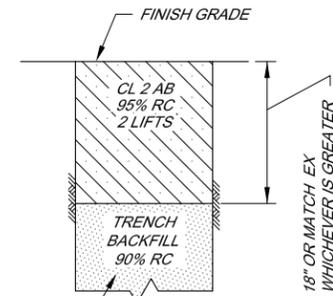
**BIWANA DRIVE COLLECTION SYSTEM REPLACEMENT PROJECT
MISCELLANEOUS DETAILS**

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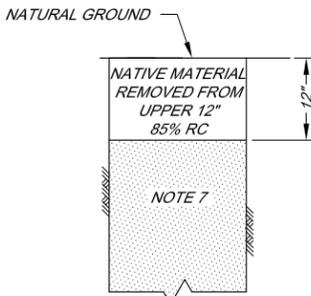




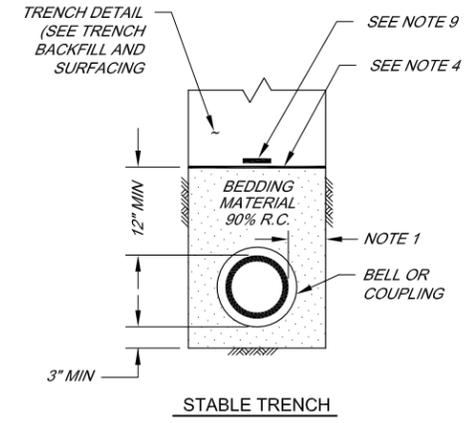
TYPE A
(COUNTY ROADS WITH SLURRY SEAL)
(EASEMENT SSMH STA 30+00± to 32+95±)
(ROSE MEADOW CT, ROSE BUD CT, LEO DR, SOUTHWOOD DR)



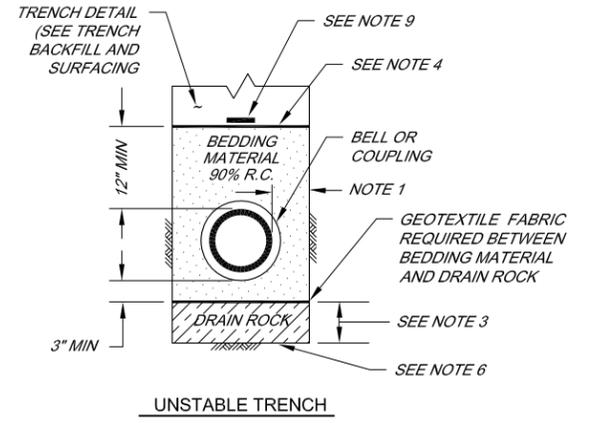
TYPE B
(UNPAVED SHOULDER AREAS)
(ROCKED DRIVEWAYS)
(UNDER CONCRETE SIDEWALKS, CURB AND GUTTER, AND DRIVEWAYS)



TYPE D
(NON-VEHICULAR AREAS)



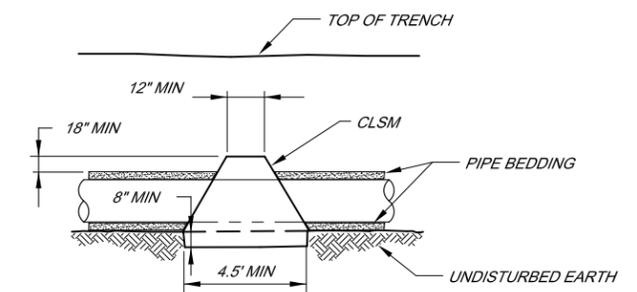
STABLE TRENCH



UNSTABLE TRENCH

PIPE BEDDING AND BACKFILL

NOT TO SCALE

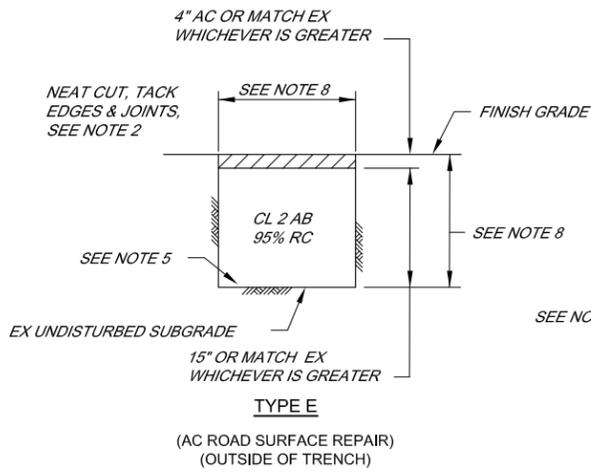


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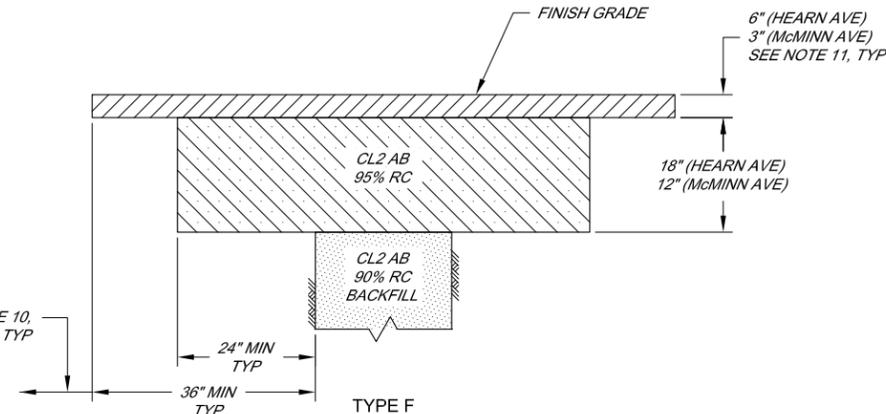
1. GUARD AGAINST PIPE OR STRUCTURE BUOYANCY.
2. EXCAVATE DAM 8" MIN INTO TRENCH SIDE WALLS AND 6" MIN INTO TRENCH BOTTOM.
3. DOWN STREAM SIDE OF ALL MANHOLES.

CDF TRENCH DAM DETAIL

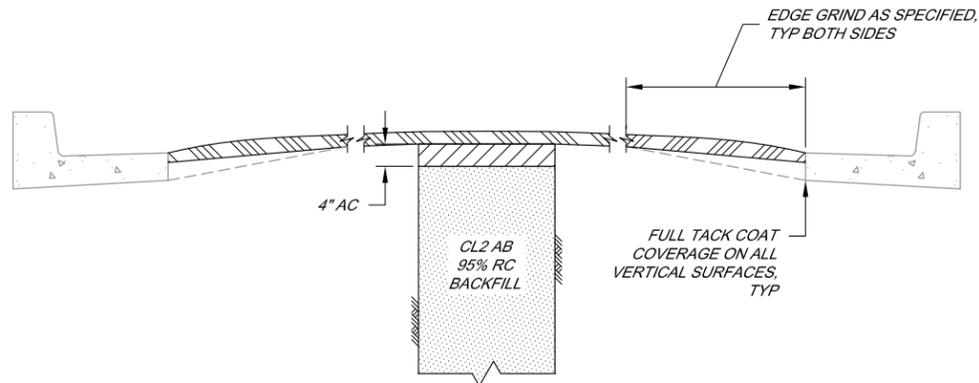
NOT TO SCALE



TYPE E
(AC ROAD SURFACE REPAIR)
(OUTSIDE OF TRENCH)



TYPE F
(CITY OF SANTA ROSA PAVED ROADS)
(HEARN AVE AND McMINN AVE)



TYPE G
(COUNTY ROADS WITH 2" OVERLAY)
(LIANA DR, WESTWOOD DR, BIWANA DR)

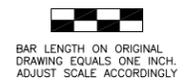
TRENCH BACKFILL AND SURFACING

NOT TO SCALE

NOTES

1. PIPE DIAMETER 18" OR LESS: 6" MIN., 9" MAX. PLUS ALLOWANCE FOR TRENCH SHORING.
2. NEATLY SAW CUT PAVEMENT AFTER TRENCH BACKFILLED TO SUBGRADE.
3. 12" MAX. OF DRAIN ROCK.
4. GEOTEXTILE FABRIC REQUIRED BETWEEN BEDDING AND BACKFILL.
5. GEOTEXTILE FABRIC REQUIRED BETWEEN UNDISTURBED SUBGRADE AND CL 2 AB.
6. GEOTEXTILE FABRIC REQUIRED WHEN SUBGRADE IS SOFT MORE THAN 15" BELOW BOTTOM OF PIPE.
7. NATIVE MATERIAL COMPACTED TO 90% RELATIVE COMPACTION.
8. AB AND AC MAY BE REPLACED WITH 6" THICK ASPHALT CONCRETE PLUG WITH STRAIGHT CUT SIDES. LIMITS OF EXCAVATION SET BY OWNER. 2" OVERLAY OR SLURRY SEAL DEPENDING ON LOCATION.
9. WARNING TAPE.
10. ADDITIONAL PAVEMENT REMOVAL: REMOVE ADDITIONAL PAVEMENT TO A PAINTED LANE STRIPE, A LIP OF GUTTER, A CURB, AN EXISTING PAVEMENT PATCH, OR AN EDGE OF PAVEMENT IF SUCH STREET FEATURE IS WITHIN 3 FEET OF THE FINAL SAW CUT.
11. FULL TACK COAT COVERAGE ON ALL VERTICAL SURFACES.

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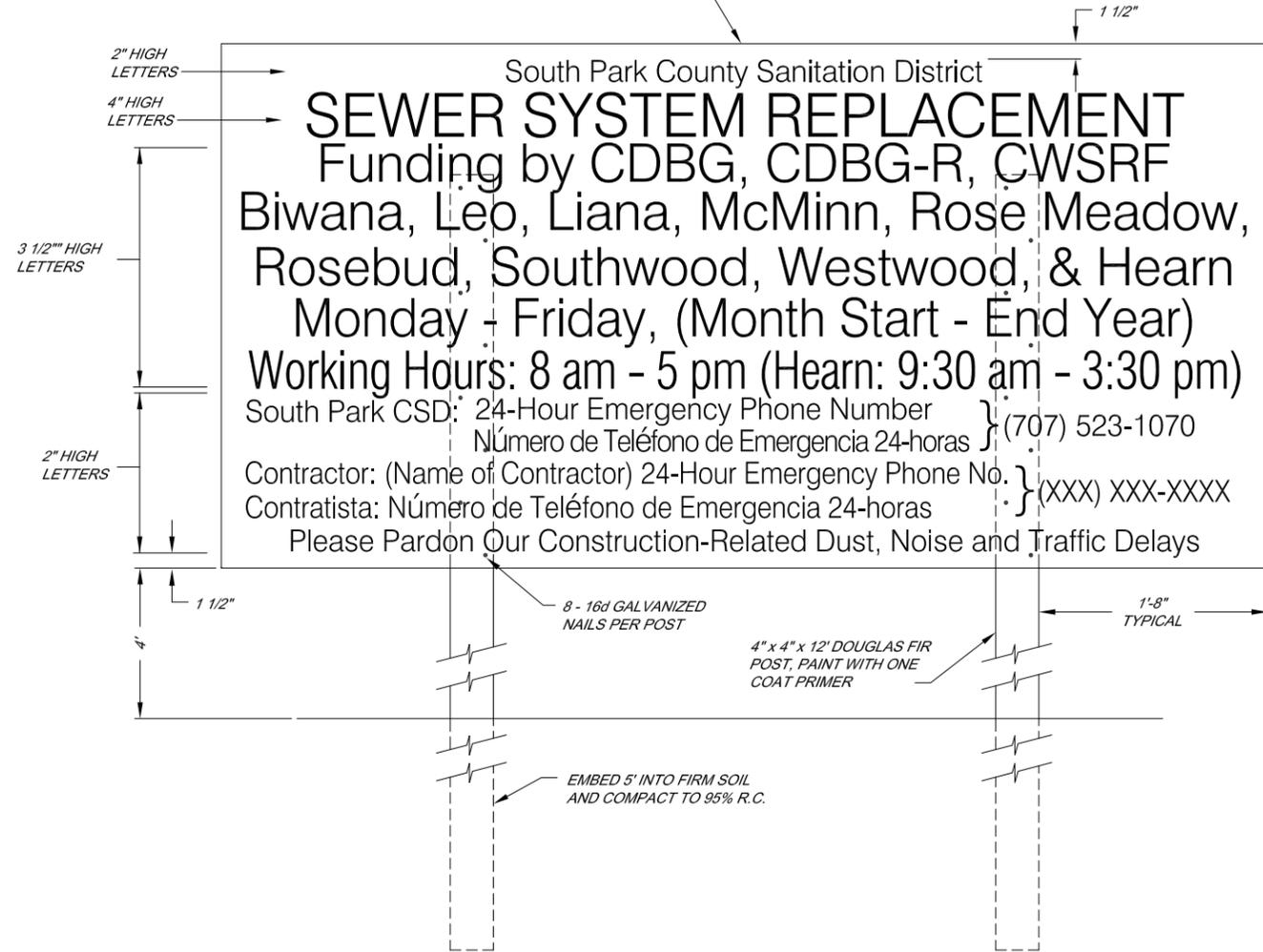
**SOUTH PARK COUNTY
SANITATION DISTRICT**

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| DRAWN : | |
| SP | |
| REVIEWED : | |
| <i>Kent</i> | <i>Guy</i> |

**BIWANA DRIVE COLLECTION SYSTEM REPLACEMENT PROJECT
TRENCH DETAILS**

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| FILE NAME: 7140_D1-2.dwg | DRAWING NUMBER: D-2 | SHEET 23 OF 24 |
| CONTRACT NUMBER: 70-1-7 #7 | | |

4' x 8' x 3/4" DOUGLAS FIR EXTERIOR PLYWOOD
 A/C-X GRADE OR BETTER. PAINT BOTH SIDES WITH ONE COAT
 EXTERIOR PRIMER, FRONT SIDE WITH TWO COATS WHITE LATEX.



PROJECT FUNDING IDENTIFICATION SIGN (4 REQUIRED)

SEE SHEET G-3 FOR APPROXIMATE LOCATIONS
 NOT TO SCALE

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BAR LENGTH ON ORIGINAL
 DRAWING EQUALS ONE INCH.
 ADJUST SCALE ACCORDINGLY



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**SOUTH PARK COUNTY
 SANITATION DISTRICT**

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| SCALE : | DATE : |
| DRAWN : | SP |
| REVIEWED : | <i>Kent Gyle</i> |

BIWANA DRIVE COLLECTION SYSTEM REPLACEMENT PROJECT
PROJECT FUNDING IDENTIFICATION SIGN

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|----------------------------|---------------------|----------------|
| FILE NAME: 7140_D1-2.dwg | DRAWING NUMBER: D-3 | SHEET 24 OF 24 |
| CONTRACT NUMBER: 70-1-7 #7 | | |