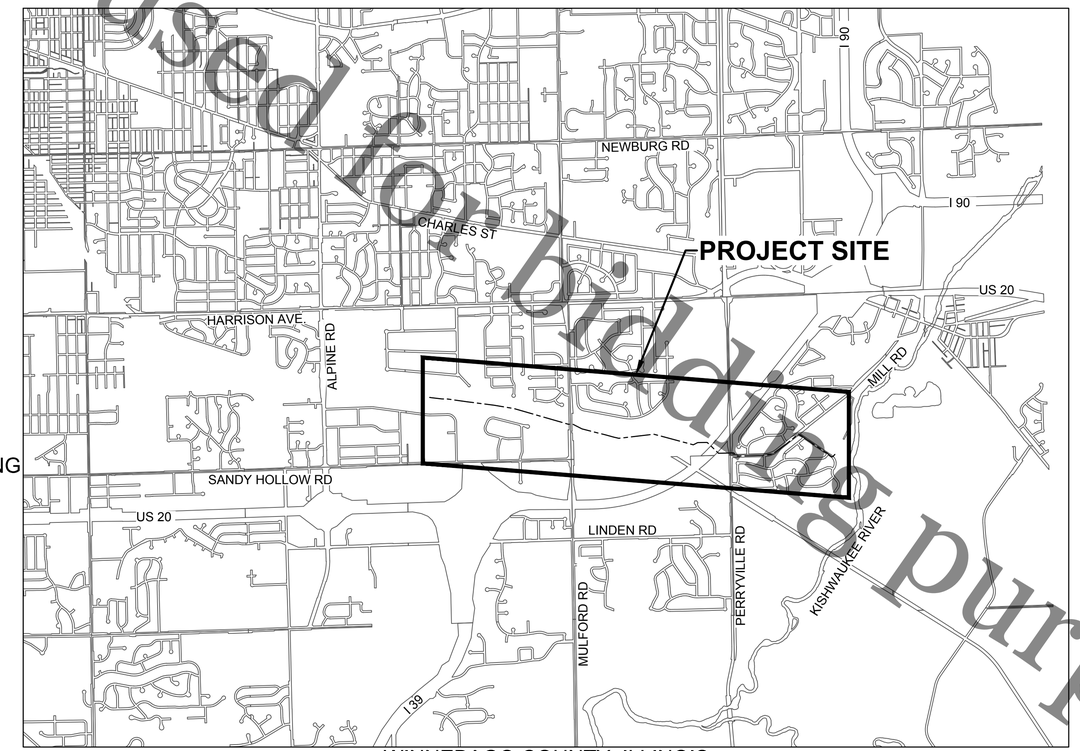
# ROCK RIVER WATER RECLAMATION DISTRICT

Not to be used for bidding purposes

## CHERRY VALLEY PARALLEL FORCEMAIN
## CAPITAL IMPROVEMENT PROJECT #1420
## IEPA L17-4667
## 2020




WINNEBAGO COUNTY, ILLINOIS


BOARD OF TRUSTEES

| | |
|---|---|
| DONALD MASSIER | PRESIDENT |
| ELMER JONES | VICE-PRESIDENT |
| RICHARD POLLACK | CLERK/TREASURER |
| JOHN SWEENEY | TRUSTEE |
| BEN BERNSTEN | TRUSTEE |

OFFICIALS

| | |
|---|---|
| TIMOTHY S. HANSON | EXECUTIVE DIRECTOR |
| CHRISTOPHER T. BAER, PE | DIRECTOR OF ENGINEERING |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Rock River Water Reclamation District

MATTHEW L CAMPBELL
062-095273
REGISTERED PROFESSIONAL ENGINEER
OF
ILLINOIS
DATE: 3/3/20
EXPIRES 11/30/21

plot date: 3/3/2020
file: I:\District Projects\Cherry Valley Parallel FM 1420\Engineering\Dwgs\Standard Sheets.dwg
sheet set: CHERRY VALLEY PARALLEL FORCEMAIN PLAN SET

# LEGEND

| EXISTING | PROPOSED | |
|---|---|---|
| | | RIGHT OF WAY LINE |
| | | PROPERTY LINE |
| | | BUILDING |
| | | WATER EDGE |
| | | EASEMENT - PERMANENT SANITARY |
| | | EASEMENT - TEMPORARY CONSTRUCTION |
| | | VEGETATION / TREE LINE |
| | | TREE DRIPLINE |
| | | CONTOUR - MAJOR |
| | | CONTOUR - MINOR |
| X X | X X | FENCE |
| | | FENCE - TEMPORARY CONSTRUCTION |
| SF | SF | FENCE - SILT |
| | | ROADWAY CENTERLINE |
| | | EDGE OF PAVEMENT |
| | | CURB & GUTTER |
| | | GUARD RAIL |
| | | RAILROAD TRACKS |
| OC | | CABLE - OVERHEAD |
| UC | | CABLE - UNDERGROUND |
| OE | | ELECTRIC - OVERHEAD |
| UE | | ELECTRIC - UNDERGROUND |
| FO | | FIBER OPTIC |
| G | | GAS LINE |
| OT | | TELEPHONE - OVERHEAD |
| UT | | TELEPHONE - UNDERGROUND |
| TV E T HH GM EM | | PEDESTALS (CATV, ELEC, TELE), HANDHOLE, GAS METER, ELEC. METER |
| E | | ELECTRIC MANHOLE |
| SB 1 | | SOIL BORING |
| BM# 1 | CP# 1 | BENCHMARK & CONTROL POINT |
| | | MAILBOX |
| | | UTILITY POLE W/ GUY WIRE & MAST ARM LIGHT POLE |
| | | TREE (DECIDUOUS & CONIFEROUS) |
| | | BUSH & SHRUB |
| | | GROUND / LANDSCAPE LIGHT |
| XXX.XX | XXX.XX | SPOT ELEVATION |

# LEGEND

| EXISTING | PROPOSED | |
|---|---|---|
| | | SANITARY MANHOLE & SANITARY SEWER |
| | | SANITARY SEWER SERVICE & CLEANOUT |
| FM | FM | SANITARY FORCEMAIN |
| | | STORM SEWER |
| | | STORM MANHOLE, CATCH BASIN, CURB INLET, INLET SPECIAL |
| | | DRAINAGE CULVERT, WITH END SECTION |
| W | W | WATER MAIN |
| WS | WS | WATER SERVICE & WATER SERVICE VALVE |
| | | WATER MAIN VALVE |
| | | WATER MAIN VALVE WITH BOX |
| | | WATER MAIN VALVE WITH VAULT |
| | | WATER MAIN REDUCER |
| | | FIRE HYDRANT |
| HMA CONC. | AGG. TURF | EXISTING SURFACE TYPE (HOT-MIX ASPHALT, AGGREGATE, CONCRETE, TURF) |
| | | DITCH CHECK |
| | | INLET OR PIPE PROTECTION |
| | | STABILIZED CONSTRUCTION ENTRANCE |
| | | EROSION CONTROL BLANKET |
| | | HEAVY DUTY EROSION CONTROL BLANKET |
| | | SEEDING AREA, CLASS 1 |
| | | SEEDING AREA, CLASS 3 |
| | | PAVEMENT REPLACEMENT |
| | | DRIVEWAY REPLACEMENT |
| | | AGGREGATE REPLACEMENT |
| | | RIP RAP |

## ABBREVIATIONS

| | | | |
|---|---|---|---|
| ABD = | ABANDON(ED) | LS= | LUMP SUM |
| CMP = | CORRUGATED METAL PIPE | MH = | MANHOLE |
| CO = | CLEAN OUT | PVMNT = | PAVEMENT |
| CTRL= | CONTROL | PRC = | PRECAST REINFORCED CONCRETE |
| CY = | CUBIC YARD(S) | PR = | PROPOSED |
| DI = | DUCTILE IRON | RCP = | REINFORCED CONCRETE PIPE |
| EA = | EACH | REM = | REMOVE(D) |
| EL = | ELEVATION | REPL = | REPLACE(D) |
| EROS= | EROSION | R/R = | REMOVE & REPLACE |
| EX = | EXISTING | SAN = | SANITARY |
| FES = | FLARED END SECTION | SVC = | SERVICE |
| FM = | FORCE MAIN | SY = | SQUARE YARD(S) |
| FT = | FEET | TY = | TYPE |
| INV = | INVERT | UNK = | UNKNOWN |
| LF = | LINEAR FEET | VCP = | VITRIFIED CLAY PIPE |
| LINCIPP = | LINED WITH CURED IN PLACE PIPE | WM = | WATER MAIN |

# GENERAL NOTES

1. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF WORK TO THE LINES AND GRADES SHOWN ON THESE PLANS. CONSTRUCTION SHALL NOT VARY FROM PLANS WITHOUT PRIOR DISTRICT APPROVAL.
2. THE ROCK RIVER WATER RECLAMATION DISTRICT, MUNICIPALITIES, PERTINENT ROADWAY AUTHORITIES, AND ALL AFFECTED PROPERTY OWNERS SHALL BE NOTIFIED AT LEAST 48 HOURS BEFORE THE START OF CONSTRUCTION.
3. ALL SERVICE LOCATIONS ARE APPROXIMATE AND MAY BE CHANGED IN THE FIELD WITH THE APPROVAL OF THE INSPECTOR. NO ADDITIONAL COMPENSATION WILL BE AWARDED DUE TO REVISED SERVICE LOCATIONS.
4. ALL CASTINGS SHALL BE SET TO FINAL GRADE PER ROCK RIVER WATER RECLAMATION DISTRICT REQUIREMENTS.
5. SANITARY SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN THE STATE OF ILLINOIS, LATEST EDITION, AND THE REQUIREMENTS OF THE ROCK RIVER WATER RECLAMATION DISTRICT.
6. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. AT 8-1-1 OR 1-800-892-0123 AND ANY OTHER UTILITIES NOT ON THE J.U.L.I.E. SYSTEM 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
7. ALL ROADWAY CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE ROADWAY AUTHORITY'S REQUIREMENTS, DISTRICT SPECIFICATIONS, AND THE STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS, LATEST EDITION.
8. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE I.E.P.A. STANDARDS AND SPECIFICATIONS, AND THE ILLINOIS URBAN MANUAL FOR SOIL EROSION AND SEDIMENT CONTROL.
9. PROTECTION OF WATER SUPPLIES SHALL BE PER THE REQUIREMENTS OF TITLE 35, C, SECTION 370.350 OF THE ILLINOIS RECOMMENDED STANDARDS FOR SEWAGE WORKS.
10. THE CONTRACTOR SHALL SUPPORT / RESTRAIN ALL UTILITY POLES AS NECESSARY, ALL COSTS INCIDENTAL.

## SUMMARY OF QUANTITIES

| ITEM | DESCRIPTION | QUANTITY | UNIT |
|---|---|---|---|
| 1 | 30" Dia. DR 18, C900 PVC Force Main Piping | 16081 | LF |
| 2 | 36" x 30" Reducer D.I. AWWA C153, Class 350 | 1 | EA |
| 3 | 45 Deg. Bend, 30" Dia. D.I. AWWA C153, Class 350 | 15 | EA |
| 4 | 22.5 Deg. Bend, 30" Dia. D.I. AWWA C153, Class 350 | 9 | EA |
| 5 | 11.25 Deg. Bend, 30" Dia. D.I. AWWA C153, Class 350 | 2 | EA |
| 6 | 30" x 30" x 12" Tee, D.I. AWWA C153, Class 350 | 2 | EA |
| 7 | 30" x 30" x 16" Tee, D.I. AWWA C153, Class 350 | 1 | EA |
| 8 | 12" Dia. Forcemain Drain Piping, DR 18, C900 PVC | 98 | LF |
| 9 | 45 Deg. Bend, 12" Dia. D.I. AWWA C153, Class 350 | 8 | EA |
| 10 | 6" Dia. DR 18, C900 PVC Force Main Piping, | 40 | LF |
| 11 | 45 Deg. Bend, 6" Dia. D.I. AWWA C153, Class 350 | 3 | EA |
| 12 | 30" x 30" x 12" Pressure Connection, PCCP Pipe | 1 | EA |
| 13 | 30" x 30" x 16" Pressure Connection, PCCP Pipe | 1 | EA |
| 14 | Concrete Pipe Encasement, 30" Dia. Forcemain | 57 | LF |
| 15 | Rock Excavation | 1638 | CY |
| 16 | Locate Existing Underground Utility, STA 2+90 | 1 | EA |
| 17 | Locate Existing Underground Utility, STA 26+30 | 1 | EA |
| 18 | Locate Existing Underground Utility, STA 40+40 | 1 | EA |
| 19 | Locate Existing Underground Utility, STA 120+00 | 1 | EA |
| 20 | Bore & Jack Set Up, Barley Ridge Trl., Complete | 1 | LS |
| 21 | Bore & Jack Set Up, Perryville Rd., Complete | 1 | LS |
| 22 | Bore & Jack Set Up, U.S. Highway 20, Complete | 1 | LS |
| 23 | Bore & Jack Set Up, Mulford Rd., Complete | 1 | LS |
| 24 | 54" I.D., 0.75" Wall Thickness, Steel Casing, Installed | 610 | LF |
| 25 | 48" I.D., 0.75" Thickness, Steel Casing, Installed | 120 | LF |
| 26 | 42" Dia. Sanitary Sewer, ASTM F679 PVC | 120 | LF |
| 27 | 18" Dia. Sanitary Sewer, Remove & Replace, SDR 35 PVC | 44 | LF |
| 28 | 12" Dia. Sanitary Sewer, Remove & Replace, SDR 35 PVC | 25 | LF |
| 29 | 8" Dia. Sanitary Sewer, Remove & Replace, SDR 35 PVC | 50 | LF |
| 30 | 6" Dia. Sanitary Sewer Service, Remove & Replace, SDR 26 PVC | 275 | LF |
| 31 | Connect to Existing Sanitary Manhole, Complete | 2 | EA |
| 32 | 5' Dia. Sanitary Manhole | 2 | EA |
| 33 | 8' Dia. Force Main Discharge Manhole | 1 | EA |
| 34 | 6' Dia. Combo Air/Vacuum Release Valve Vault, Complete | 6 | EA |
| 35 | 6' Dia. Valve Vault, Complete | 2 | EA |
| 36 | 5' Dia. Valve Vault, Complete | 2 | EA |
| 37 | Bypass Pumping, MH 149-060 to 149-140 | 1 | LS |
| 38 | Bypass Pumping, MH 103-097 to 103-096 (Discharge) | 1 | LS |
| 39 | 8" Dia. Water Main Remove & Replace, Class 52 D.I. | 25 | LF |
| 40 | 1" Dia. Water Service Remove & Replace | 100 | LF |
| 41 | 6" Dia. Water Main Remove & Replace, Class 52 D.I. | 25 | LF |
| 42 | 12" Dia. Water Main Remove & Replace, Class 52 D.I. | 50 | LF |
| 43 | 8" Dia. Linestop, Complete | 2 | EA |
| 44 | 6" Dia. Linestop, Complete | 2 | EA |
| 45 | 12" Dia. Linestop, Complete | 2 | EA |
| 46 | 30" Dia. Linestop, Complete | 1 | EA |
| 47 | 24" Dia. CMP Storm Sewer Remove & Replace | 25 | LF |
| 48 | 18" Dia. CMP Storm Sewer Remove & Replace | 67 | LF |
| 49 | 12" Dia. RCP Storm Sewer Remove & Replace | 25 | LF |
| 50 | Curb & Gutter, TB.6-24, Remove & Replace | 84 | LF |
| 51 | Full Depth Pavement Removal | 8155 | SY |
| 52 | Aggregate Base Course, Type B | 5100 | TON |
| 53 | PCC Driveway Pavement, 6" | 38 | SY |
| 54 | HMA Binder Course, N50, IL-19.0 | 1017 | TON |
| 55 | HMA Surface Course, Mix "C", N50, IL-9.5 | 910 | TON |
| 56 | Thermoplastic Pavement Marking, Line 4, White | 2572 | LF |
| 57 | Thermoplastic Pavement Marking, Line 4, Yellow | 1015 | LF |
| 58 | Thermoplastic Pavement Marking, Letters and Symbols | 32 | SF |
| 59 | Construction Layout | 1 | LS |
| 60 | Traffic Control & Protection | 1 | LS |
| 61 | Portable, Changeable Message Boards | 360 | Cal Day |
| 62 | Tree Removal (Estimated 1.0 Acres minimum) | 1 | LS |
| 63 | Remove and Relocate Sign Panel Assembly | 2 | EA |
| 64 | Stabilized Construction Entrance | 700 | SY |
| 65 | Inlet and Pipe Protection | 30 | EA |
| 66 | Ditch Check | 4 | EA |
| 67 | Erosion Control Blanket | 2.5 | ACRE |
| 68 | Turf Reinforcement Mat | 299 | SY |
| 69 | Silt Fence | 20026 | LF |
| 70 | Seeding, Class 1 | 2.3 | ACRE |
| 71 | Seeding, Class 4 | 7.3 | ACRE |
| 72 | Rip Rap | 178 | SY |
| 73 | Temporary Construction Fence | 400 | LF |

Not to be used for bidding purposes

Rock River Water Reclamation District
ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

| No. | DATE | REVISION | INT. |
|---|---|---|---|
| | | | |

**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**LEGEND, GENERAL NOTES, & SUMMARY OF QTYS**

Sheet No. 2 OF 80

FOR BID

Date 3/3/2020

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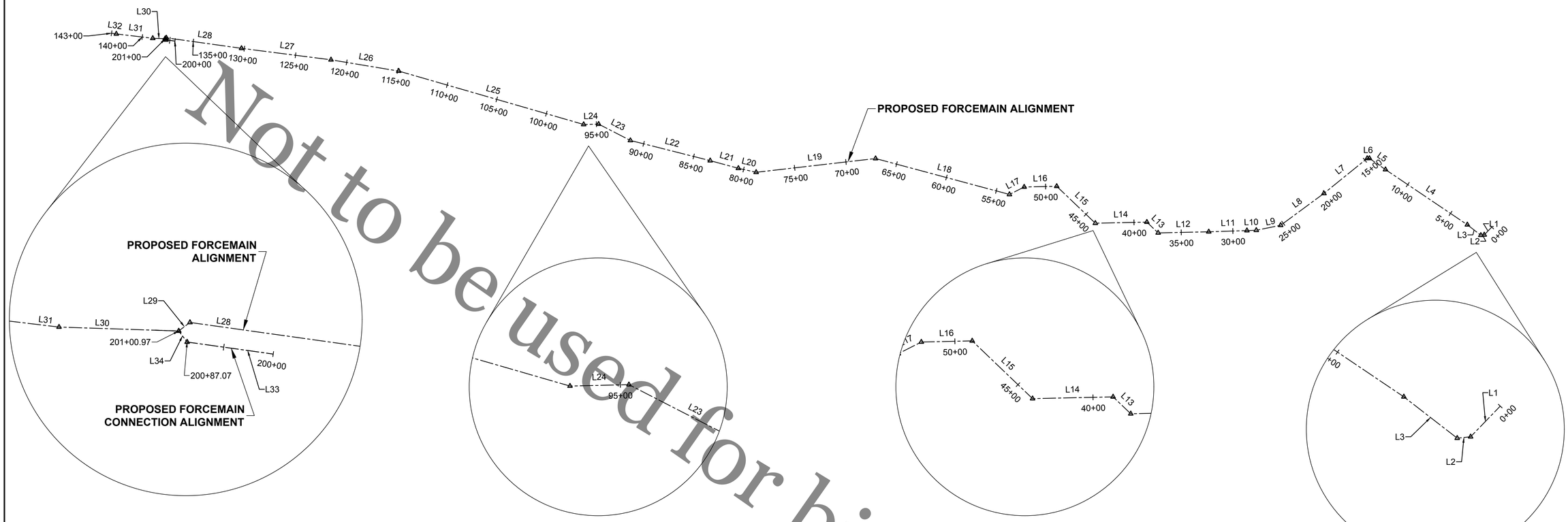


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**PROPOSED FORCEMAIN CONNECTION ALIGNMENT LINE TABLE**

| LINE # | LENGTH | DIRECTION | START STATION | END STATION |
|---|---|---|---|---|
| L33 | 87.07 | N82° 02' 20.77"W | STA. 200+00.00<br>N: 2028385.6093<br>E: 2608841.7764 | STA. 200+87.07<br>N: 2028397.6687<br>E: 2608755.5422 |
| L34 | 13.89 | N37° 09' 20.16"W | STA. 200+87.07<br>N: 2028397.6687<br>E: 2608755.5422 | STA. 201+00.97<br>N: 2028408.7425<br>E: 2608747.1502 |

**PROPOSED FORCEMAIN ALIGNMENT LINE TABLE**

| LINE # | LENGTH | DIRECTION | START STATION | END STATION |
|---|---|---|---|---|
| L1 | 104.73 | S43° 59' 05.26"W | STA. 0+00.00<br>N: 2026582.0639<br>E: 2621599.5662 | STA. 1+04.73<br>N: 2026506.7115<br>E: 2621526.8378 |
| L2 | 33.04 | S83° 59' 05.26"W | STA. 1+04.73<br>N: 2026506.7115<br>E: 2621526.8378 | STA. 1+37.77<br>N: 2026503.2488<br>E: 2621493.9759 |
| L3 | 165.76 | N52° 13' 41.53"W | STA. 1+37.77<br>N: 2026503.2488<br>E: 2621493.9759 | STA. 3+03.53<br>N: 2026604.7824<br>E: 2621362.9465 |
| L4 | 956.28 | N55° 59' 31.68"W | STA. 3+03.53<br>N: 2026604.7824<br>E: 2621362.9465 | STA. 12+59.81<br>N: 2027139.6358<br>E: 2620570.2284 |
| L5 | 189.80 | N55° 02' 16.22"W | STA. 12+59.81<br>N: 2027139.6358<br>E: 2620570.2284 | STA. 14+49.61<br>N: 2027248.3951<br>E: 2620414.6856 |
| L6 | 21.88 | S89° 35' 07.64"W | STA. 14+49.61<br>N: 2027248.3951<br>E: 2620414.6856 | STA. 14+71.48<br>N: 2027248.2368<br>E: 2620392.8106 |
| L7 | 539.63 | S50° 59' 14.53"W | STA. 14+71.48<br>N: 2027248.2368<br>E: 2620392.8106 | STA. 20+11.11<br>N: 2026908.5443<br>E: 2619973.5143 |
| L8 | 520.70 | S53° 37' 14.08"W | STA. 20+11.11<br>N: 2026908.5443<br>E: 2619973.5143 | STA. 25+31.81<br>N: 2026599.7021<br>E: 2619554.2957 |
| L9 | 240.93 | S78° 26' 28.77"W | STA. 25+31.81<br>N: 2026599.7021<br>E: 2619554.2957 | STA. 27+72.75<br>N: 2026551.4258<br>E: 2619318.2481 |
| L10 | 90.53 | S88° 09' 38.54"W | STA. 27+72.75<br>N: 2026551.4258<br>E: 2619318.2481 | STA. 28+63.28<br>N: 2026548.5200<br>E: 2619227.7600 |
| L11 | 370.50 | S88° 09' 38.54"W | STA. 28+63.28<br>N: 2026548.5200<br>E: 2619227.7600 | STA. 32+33.78<br>N: 2026536.6284<br>E: 2618857.4532 |

**PROPOSED FORCEMAIN ALIGNMENT LINE TABLE**

| LINE # | LENGTH | DIRECTION | START STATION | END STATION |
|---|---|---|---|---|
| L12 | 490.09 | S88° 44' 41.48"W | STA. 32+33.78<br>N: 2026536.6284<br>E: 2618857.4532 | STA. 37+23.87<br>N: 2026525.8931<br>E: 2618367.4768 |
| L13 | 151.51 | N46° 15' 18.52"W | STA. 37+23.87<br>N: 2026525.8931<br>E: 2618367.4768 | STA. 38+75.39<br>N: 2026630.6576<br>E: 2618258.0186 |
| L14 | 499.19 | S88° 44' 41.48"W | STA. 38+75.39<br>N: 2026630.6576<br>E: 2618258.0186 | STA. 43+74.58<br>N: 2026619.7230<br>E: 2617758.9451 |
| L15 | 517.89 | N46° 15' 18.52"W | STA. 43+74.58<br>N: 2026619.7230<br>E: 2617758.9451 | STA. 48+92.47<br>N: 2026977.8158<br>E: 2617384.8092 |
| L16 | 315.37 | S88° 44' 41.48"W | STA. 48+92.47<br>N: 2026977.8158<br>E: 2617384.8092 | STA. 52+07.84<br>N: 2026970.9077<br>E: 2617069.5168 |
| L17 | 159.90 | S63° 08' 41.48"W | STA. 52+07.84<br>N: 2026970.9077<br>E: 2617069.5168 | STA. 53+67.74<br>N: 2026898.6734<br>E: 2616926.8585 |
| L18 | 1342.93 | N74° 58' 08.14"W | STA. 53+67.74<br>N: 2026898.6734<br>E: 2616926.8585 | STA. 67+10.67<br>N: 2027246.9538<br>E: 2615629.8723 |
| L19 | 1164.74 | S83° 25' 21.74"W | STA. 67+10.67<br>N: 2027246.9538<br>E: 2615629.8723 | STA. 78+75.42<br>N: 2027113.5401<br>E: 2614472.7953 |
| L20 | 176.30 | N77° 23' 53.10"W | STA. 78+75.42<br>N: 2027113.5401<br>E: 2614472.7953 | STA. 80+51.71<br>N: 2027152.0037<br>E: 2614300.7461 |
| L21 | 283.43 | N74° 46' 29.09"W | STA. 80+51.71<br>N: 2027152.0037<br>E: 2614300.7461 | STA. 83+35.15<br>N: 2027226.4377<br>E: 2614027.2598 |
| L22 | 797.07 | N75° 46' 50.47"W | STA. 83+35.15<br>N: 2027226.4377<br>E: 2614027.2598 | STA. 91+32.22<br>N: 2027422.2265<br>E: 2613254.6054 |

**PROPOSED FORCEMAIN ALIGNMENT LINE TABLE**

| LINE # | LENGTH | DIRECTION | START STATION | END STATION |
|---|---|---|---|---|
| L23 | 346.62 | N62° 48' 06.82"W | STA. 91+32.22<br>N: 2027422.2265<br>E: 2613254.6054 | STA. 94+78.84<br>N: 2027580.6539<br>E: 2612946.3140 |
| L24 | 144.75 | S88° 38' 38.04"W | STA. 94+78.84<br>N: 2027580.6539<br>E: 2612946.3140 | STA. 96+23.59<br>N: 2027577.2281<br>E: 2612801.6009 |
| L25 | 1864.63 | N73° 53' 02.74"W | STA. 96+23.59<br>N: 2027577.2281<br>E: 2612801.6009 | STA. 114+88.22<br>N: 2028094.8136<br>E: 2611010.2507 |
| L26 | 665.47 | N80° 33' 12.18"W | STA. 114+88.22<br>N: 2028094.8136<br>E: 2611010.2507 | STA. 121+53.69<br>N: 2028204.0358<br>E: 2610353.8076 |
| L27 | 874.12 | N82° 41' 15.92"W | STA. 121+53.69<br>N: 2028204.0358<br>E: 2610353.8076 | STA. 130+27.81<br>N: 2028315.2908<br>E: 2609486.7967 |
| L28 | 735.49 | N82° 01' 46.10"W | STA. 130+27.81<br>N: 2028315.2908<br>E: 2609486.7967 | STA. 137+63.30<br>N: 2028417.2764<br>E: 2608758.4135 |
| L30 | 119.95 | N88° 07' 32.07"W | STA. 137+77.46<br>N: 2028408.7441<br>E: 2608747.1006 | STA. 138+97.42<br>N: 2028412.6676<br>E: 2608627.2144 |
| L31 | 356.10 | N83° 08' 57.00"W | STA. 138+97.42<br>N: 2028412.6676<br>E: 2608627.2144 | STA. 142+53.52<br>N: 2028455.1449<br>E: 2608273.6571 |
| L32 | 46.48 | N81° 56' 07.28"W | STA. 142+53.52<br>N: 2028455.1449<br>E: 2608273.6571 | STA. 143+00.00<br>N: 2028461.6663<br>E: 2608227.6320 |

ROCK RIVER WATER
RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

| No. | DATE | REVISION | INT. |
|---|---|---|---|
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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**ALIGNMENT, TIES, & BENCHMARKS- PROPOSED FORCEMAIN**

FOR BID

Sheet No. 3 OF 80

Date 3/3/2020

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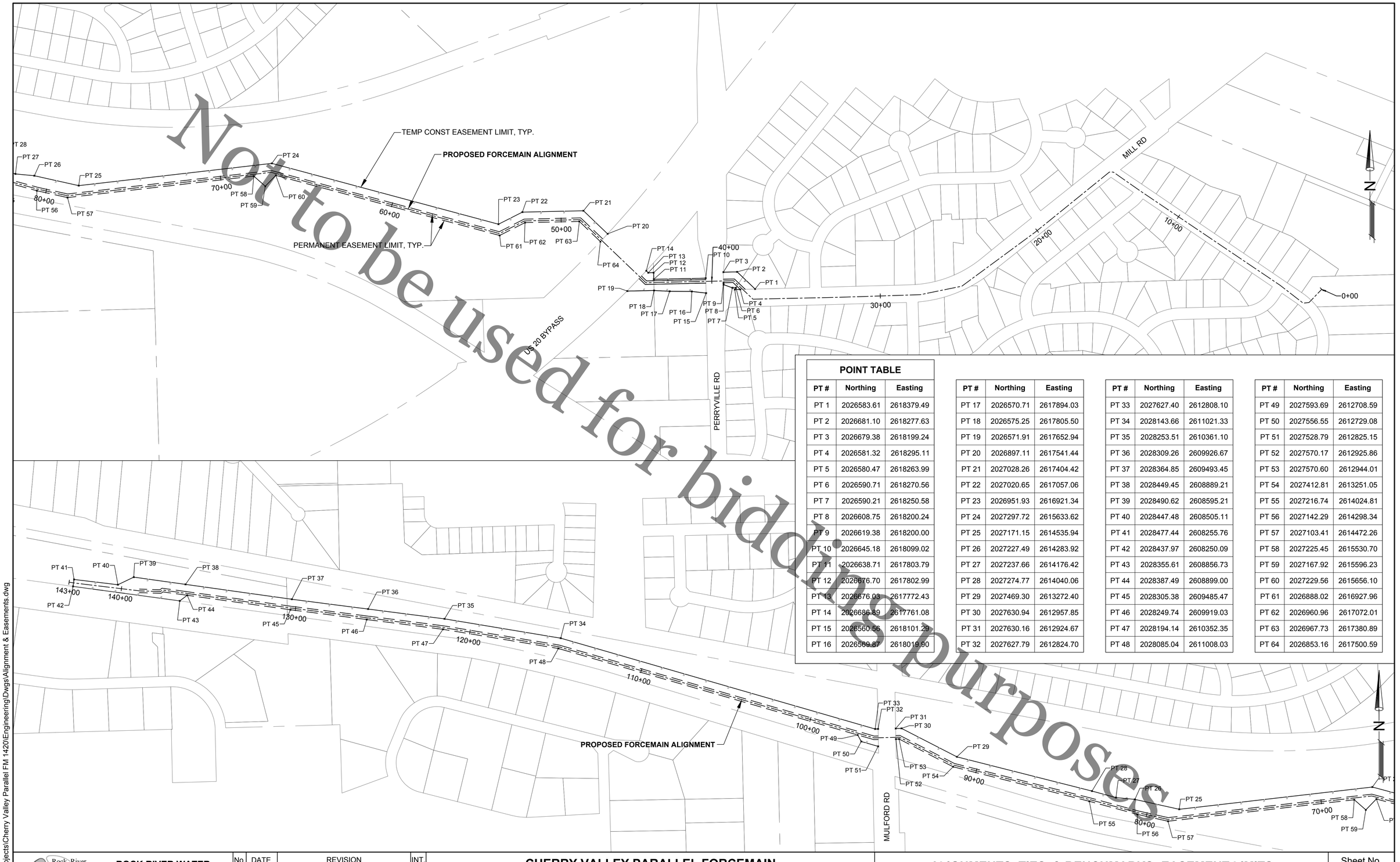


**POINT TABLE**

| PT # | Northing | Easting |
|---|---|---|
| PT 1 | 2026583.61 | 2618379.49 |
| PT 2 | 2026681.10 | 2618277.63 |
| PT 3 | 2026679.38 | 2618199.24 |
| PT 4 | 2026581.32 | 2618295.11 |
| PT 5 | 2026580.47 | 2618263.99 |
| PT 6 | 2026590.71 | 2618270.56 |
| PT 7 | 2026590.21 | 2618250.58 |
| PT 8 | 2026608.75 | 2618200.24 |
| PT 9 | 2026619.38 | 2618200.00 |
| PT 10 | 2026645.18 | 2618099.02 |
| PT 11 | 2026638.71 | 2617803.79 |
| PT 12 | 2026676.70 | 2617802.99 |
| PT 13 | 2026676.03 | 2617772.43 |
| PT 14 | 2026686.89 | 2617761.08 |
| PT 15 | 2026560.56 | 2618101.29 |
| PT 16 | 2026569.87 | 2618019.90 |
| PT 17 | 2026570.71 | 2617894.03 |
| PT 18 | 2026575.25 | 2617805.50 |
| PT 19 | 2026571.91 | 2617652.94 |
| PT 20 | 2026897.11 | 2617541.44 |
| PT 21 | 2027028.26 | 2617404.42 |
| PT 22 | 2027020.65 | 2617057.06 |
| PT 23 | 2026951.93 | 2616921.34 |
| PT 24 | 2027297.72 | 2615633.62 |
| PT 25 | 2027171.15 | 2614535.94 |
| PT 26 | 2027227.49 | 2614283.92 |
| PT 27 | 2027237.66 | 2614176.42 |
| PT 28 | 2027274.77 | 2614040.06 |
| PT 29 | 2027469.30 | 2613272.40 |
| PT 30 | 2027630.94 | 2612957.85 |
| PT 31 | 2027630.16 | 2612924.67 |
| PT 32 | 2027627.79 | 2612824.70 |
| PT 33 | 2027627.40 | 2612808.10 |
| PT 34 | 2028143.66 | 2611021.33 |
| PT 35 | 2028253.51 | 2610361.10 |
| PT 36 | 2028309.26 | 2609926.67 |
| PT 37 | 2028364.85 | 2609493.45 |
| PT 38 | 2028449.45 | 2608889.21 |
| PT 39 | 2028490.62 | 2608595.21 |
| PT 40 | 2028447.48 | 2608505.11 |
| PT 41 | 2028477.44 | 2608255.76 |
| PT 42 | 2028437.97 | 2608250.09 |
| PT 43 | 2028355.61 | 2608856.73 |
| PT 44 | 2028387.49 | 2608899.00 |
| PT 45 | 2028305.38 | 2609485.47 |
| PT 46 | 2028249.74 | 2609919.03 |
| PT 47 | 2028194.14 | 2610352.35 |
| PT 48 | 2028085.04 | 2611008.03 |
| PT 49 | 2027593.69 | 2612708.59 |
| PT 50 | 2027556.55 | 2612729.08 |
| PT 51 | 2027528.79 | 2612825.15 |
| PT 52 | 2027570.17 | 2612925.86 |
| PT 53 | 2027570.60 | 2612944.01 |
| PT 54 | 2027412.81 | 2613251.05 |
| PT 55 | 2027216.74 | 2614024.81 |
| PT 56 | 2027142.29 | 2614298.34 |
| PT 57 | 2027103.41 | 2614472.26 |
| PT 58 | 2027225.45 | 2615530.70 |
| PT 59 | 2027167.92 | 2615596.23 |
| PT 60 | 2027229.56 | 2615656.10 |
| PT 61 | 2026888.02 | 2616927.96 |
| PT 62 | 2026960.96 | 2617072.01 |
| PT 63 | 2026967.73 | 2617380.89 |
| PT 64 | 2026853.16 | 2617500.59 |

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Rock River Water Reclamation District
ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**ALIGNMENTS, TIES, & BENCHMARKS- EASEMENT LIMITS**

Sheet No. 4 OF 80

FOR BID

Date 3/3/2020

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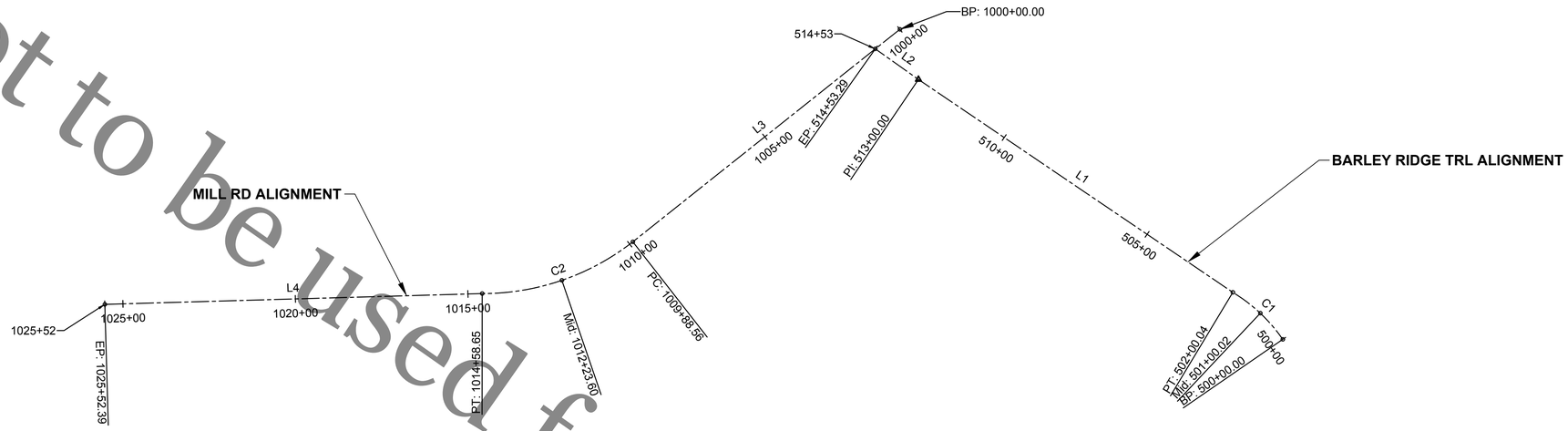


| MILL RD ALIGNMENT LINE TABLE | | | | |
|---|---|---|---|---|
| LINE # | LENGTH | DIRECTION | START STATION | END STATION |
| L3 | 988.56 | S51° 29' 44.79"W | STA. 1000+00.00<br>N: 2027326.0881<br>E: 2620461.6373 | STA. 1009+88.56<br>N: 2026710.6400<br>E: 2619688.0300 |
| L4 | 1093.74 | S88° 21' 44.57"W | STA. 1014+58.65<br>N: 2026560.7400<br>E: 2619251.5500 | STA. 1025+52.39<br>N: 2026529.4831<br>E: 2618158.2547 |

| BARLEY RIDGE ALIGNMENT LINE TABLE | | | | |
|---|---|---|---|---|
| LINE # | LENGTH | DIRECTION | START STATION | END STATION |
| L1 | 1099.96 | N55° 53' 51.37"W | STA. 502+00.04<br>N: 2026564.1815<br>E: 2621426.3790 | STA. 513+00.00<br>N: 2027180.8999<br>E: 2620515.5718 |
| L2 | 153.29 | N54° 41' 47.67"W | STA. 513+00.00<br>N: 2027180.8999<br>E: 2620515.5718 | STA. 514+53.29<br>N: 2027269.4893<br>E: 2620390.4683 |

| ALIGNMENT CURVE TABLE | | | | | | | |
|---|---|---|---|---|---|---|---|
| CURVE # | PI | DELTA | RADIUS | LENGTH | TANGENT | PC | PT |
| C2 | STA. 1012+32.64<br>N: 2026560.4531<br>E: 2619495.6286 | 008°05'33.45" | 708.00 | 470.09 | 244.08 | STA. 1009+88.56<br>N: 2026710.6400<br>E: 2619688.0300 | STA. 1014+58.65<br>N: 2026560.7400<br>E: 2619251.5500 |

| BARLEY RIDGE TRL ALIGNMENT CURVE TABLE | | | | | | | |
|---|---|---|---|---|---|---|---|
| CURVE # | PI | DELTA | RADIUS | LENGTH | TANGENT | PC | PT |
| C1 | STA. 501+01.55<br>N: 2026511.7381<br>E: 2621513.3422 | 012°10'09.87" | 470.82 | 200.04 | 101.55 | STA. 500+00.00<br>N: 2026428.1104<br>E: 2621570.9557 | STA. 502+00.04<br>N: 2026564.1815<br>E: 2621426.3790 |

N

NOTE:
THE PROPOSED ROADWAY CENTERLINE ALIGNMENTS AND PROFILES WERE RE-CREATED USING AUTOCAD CIVIL 3D TO 'BEST FIT' AS CLOSE AS PRACTICAL TO THE EXISTING ROADWAY CENTERLINE ALIGNMENTS AND PROFILES.

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Rock River Water Reclamation District
ROCK RIVER WATER
RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

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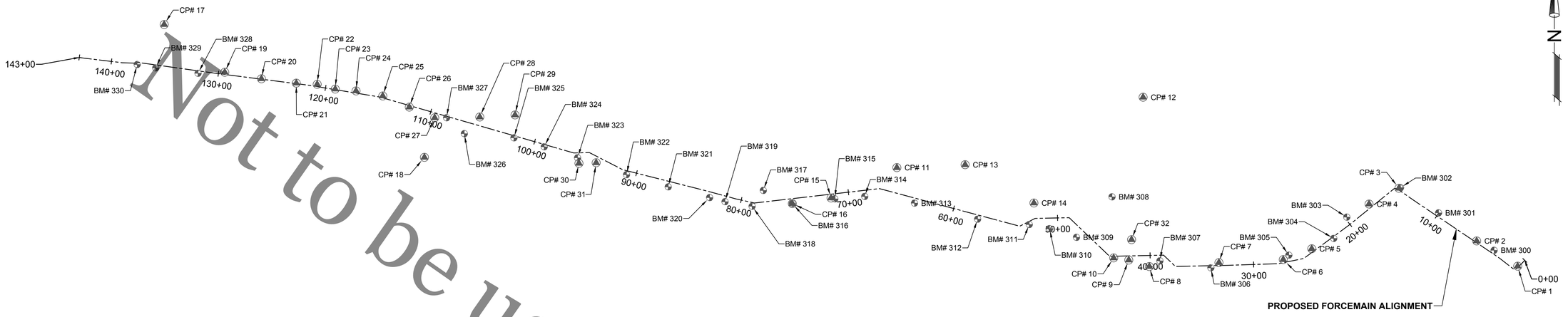
**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**ALIGNMENT, TIES, & BENCHMARKS- ROADWAY**

FOR BID

Sheet No. 5 OF 80

Date 3/3/2020

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## CONTROL POINT TABLE

| CP# | Elevation | Northing | Easting | Description |
|---|---|---|---|---|
| 1 | 742.78 | 2026528.67 | 2621533.56 | CP 1/2" REBAR |
| 2 | 753.22 | 2026762.29 | 2621154.35 | CP MAG |
| 3 | 754.66 | 2027249.54 | 2620435.22 | CP MAG |
| 4 | 762.17 | 2027104.00 | 2620158.77 | CP 1/2" REBAR |
| 5 | 783.16 | 2026689.82 | 2619628.92 | CP 1/2" REBAR |
| 6 | 788.45 | 2026589.20 | 2619365.21 | CP 1/2" REBAR |
| 7 | 786.54 | 2026561.52 | 2618770.13 | CP 1/2" REBAR |
| 8 | 777.94 | 2026525.07 | 2618126.16 | CP 1/2" REBAR |
| 9 | 778.01 | 2026585.20 | 2617936.04 | CP 1/2" REBAR |
| 10 | 778.67 | 2026604.64 | 2617796.31 | CP 1/2" REBAR |
| 11 | 772.07 | 2027441.22 | 2615790.67 | CP 3/4" REBAR |
| 12 | 790.39 | 2028093.34 | 2618068.35 | CP 3/4" REBAR |
| 13 | 780.99 | 2027468.41 | 2616422.37 | CP 3/4" REBAR |
| 14 | 780.50 | 2027113.34 | 2617058.36 | CP NAIL |
| 15 | 770.02 | 2027159.63 | 2615181.79 | CP 1/2" REBAR |
| 16 | 772.36 | 2027108.06 | 2614823.54 | CP CUT X ON CASTING |
| 17 | 825.68 | 2028766.66 | 2609012.86 | CP MAG |
| 18 | 802.03 | 2027536.37 | 2611420.28 | CP MAG |
| 19 | 811.38 | 2028324.82 | 2609573.15 | CP 3/4" REBAR |
| 20 | 808.18 | 2028264.10 | 2609912.55 | CP 3/4" REBAR |
| 21 | 806.13 | 2028224.05 | 2610235.06 | CP 3/4" REBAR |
| 22 | 804.72 | 2028212.74 | 2610428.12 | CP 3/4" REBAR |
| 23 | 803.25 | 2028168.89 | 2610595.16 | CP 3/4" REBAR |
| 24 | 802.56 | 2028151.88 | 2610787.81 | CP 3/4" REBAR |
| 25 | 801.97 | 2028105.21 | 2611035.02 | CP 1/2" REBAR |
| 26 | 799.89 | 2028001.68 | 2611280.42 | CP 1/2" REBAR |
| 27 | 798.50 | 2027903.12 | 2611515.08 | CP 1/2" REBAR |
| 28 | 803.74 | 2027910.25 | 2611932.51 | CP 1/2" REBAR |
| 29 | 804.49 | 2027929.20 | 2612258.45 | CP 1/2" REBAR |
| 30 | 791.65 | 2027480.80 | 2612849.78 | CP 1/2" REBAR |
| 31 | 784.66 | 2027486.43 | 2613009.07 | CP 1/2" REBAR |
| 32 | 779.84 | 2026774.01 | 2617961.65 | CP SPK |

## BENCHMARK TABLE

| BM# | Elevation | Northing | Easting | Description |
|---|---|---|---|---|
| 300 | 750.98 | 2026675.6 | 2621315.4 | CUT 'X' ON BOLT NEXT TO 'M' IN MUELLER ON HYDRANT AT NE CNR OF SUMAC LN & BARLEY RIDGE TRL |
| 301 | 752.05 | 2027022.2 | 2620801.9 | CUT 'X' ON WEST BOLT IN MUELLER ON HYDRANT AT 3858 BARLEY RIDGE TRL |
| 302 | 754.97 | 2027255.8 | 2620449.8 | CUT 'X' ON EAST BOLT IN MUELLER ON HYDRANT AT SE CNR OF MILL RD & BARLEY RIDGE TRL |
| 303 | 768.69 | 2026982.5 | 2619952.9 | CUT 'X' ON WEST BOLT IN MUELLER ON HYDRANT AT NW CNR OF RAIL FENCE & MILL RD |
| 304 | 776.08 | 2026785.7 | 2619832.3 | RR SPIKE IN POWER POLE ON S SIDE OF MILL RD @ 3915 MILL RD |
| 305 | 791.70 | 2026630.5 | 2619416.7 | CUT 'X' ON SE BOLT IN MUELLER ON HYDRANT @ 3939 MILL RD |
| 306 | 785.58 | 2026513.2 | 2618695.5 | RR SPIKE IN POWER POLE IN S R.O.W. @ INT. MILL RD & FARMHOME LN |
| 307 | 782.72 | 2026577.7 | 2618223.8 | CUT 'X' ON SW ARROW BONNET BOLT ON HYDRANT @ NW CNR OF MILL RD & PERRYVILLE RD |
| 308 | 782.68 | 2027170.6 | 2617780.7 | R.O.W. MARKER W R.O.W. OF US 20 |
| 309 | 782.80 | 2026795.4 | 2617452.0 | TOP R.O.W. MARKER ±20' S OF EX FM IN N R.O.W. LINE US 20 |
| 310 | 773.31 | 2026876.0 | 2617203.1 | SET 3/4" REBAR 5' LONG |
| 311 | 769.43 | 2026914.4 | 2617015.4 | SET 3/4" REBAR 5' LONG |
| 312 | 763.41 | 2026964.0 | 2616537.8 | SET 3/4" REBAR 5' LONG |
| 313 | 765.01 | 2027112.3 | 2615954.0 | SET 3/4" REBAR 5' LONG |
| 314 | 768.08 | 2027174.4 | 2615493.3 | SET 3/4" REBAR 5' LONG |
| 315 | 771.87 | 2027151.6 | 2615216.5 | GROOVE IN NW EDGE OF MH CASTING |
| 316 | 772.93 | 2027108.7 | 2614823.5 | GROOVE IN E EDGE OF MH CASTING |
| 317 | 776.49 | 2027229.9 | 2614555.4 | SW CNR CONCRETE WELL PASD UNDER WIND MILL |
| 318 | 775.35 | 2027083.3 | 2614451.6 | GROOVE IN W EDGE OF MH CASTING |
| 319 | 781.81 | 2027125.6 | 2614201.0 | RR SPIKE IN N FACE POWER POLE |
| 320 | 777.88 | 2027163.8 | 2614058.3 | GROOVE IN W EDGE OF MH CASTING |
| 321 | 780.32 | 2027263.0 | 2613675.5 | GROOVE IN W EDGE OF MH CASTING |
| 322 | 782.38 | 2027376.9 | 2613289.9 | GROOVE IN NE EDGE OF MH CASTING |
| 323 | 789.66 | 2027532.4 | 2612837.0 | RR SPIKE IN N FACE FIRST POWER POLE N OF S RR TRACKS W R.O.W. MULFORD RD |
| 324 | 790.48 | 2027634.5 | 2612528.5 | GROOVE IN S EDGE OF MH CASTING |
| 325 | 792.28 | 2027717.1 | 2612248.3 | GROOVE IN N EDGE OF MH CASTING |
| 326 | 798.02 | 2027755.8 | 2611789.3 | CHISELED SQUARE IN NE CNR OF FIRST RR BRIDGE W OF MULFORD RD |
| 327 | 798.16 | 2027903.1 | 2611625.2 | SET 3/4" REBAR 5' LONG |
| 328 | 815.39 | 2028315.3 | 2609326.1 | SET 3/4" REBAR 5' LONG |
| 329 | 827.87 | 2028364.6 | 2608934.4 | SET 3/4" REBAR 5' LONG |
| 330 | 829.44 | 2028396.2 | 2608763.0 | TOP OF W REBAR HOOK OF FM DISCHARGE MH |

ROCK RIVER WATER
RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**ALIGNMENTS, TIES, & BENCHMARKS- BENCHMARKS & CONTROL**

Sheet No. 6 OF 80

FOR BID

Date 3/3/2020

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## SWPPP GENERAL NOTES

### GENERAL NOTES

THE ESTIMATED AREA OF DISTURBANCE FOR THIS PROJECT EXCEEDS 1 ACRE. A NOTICE OF INTENT (N.O.I) WILL BE FILED. A STORM WATER POLLUTION PREVENTION PLAN (S.W.P.P.P.) HAS BEEN PREPARED FOR THIS PROJECT. THE CONTRACTOR SHALL INSTALL A SWPPP MAILBOX IN AN ACCESSIBLE LOCATION ONSITE THAT SHALL CONTAIN THE SWPPP PLAN, ANY CHANGES TO THE SWPPP PLAN, INSPECTION REPORTS, AND ALL OTHER RELEVANT DOCUMENTS. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE ILLINOIS URBAN MANUAL, CURRENT EDITION, I.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, AND THE PROJECT SPECIFICATIONS AND DETAILS.

THE EROSION CONTROL DEVICES, MATERIALS AND PROCEDURES SHOWN IN THESE PLANS ARE TO BE CONSIDERED A MINIMUM. ADDITIONAL DEVICES OR MATERIALS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS, AT THE DIRECTION OF THE ENGINEER. ANY DEVICES, MATERIALS, OR PROCEDURES REQUIRED BY THE ENGINEER DUE TO THE CONTRACTOR'S ACTIONS OR NEGLIGENCE WILL BE AT NO ADDITIONAL COST TO THE DISTRICT.

ALL DISTURBED AREAS SHALL BE SEEDED UNLESS AGRICULTURAL OR OTHERWISE NOTED ON THE PLANS. THE CONTRACTOR IS RESTRICTED TO WORK IN TEMPORARY EASEMENTS OR WORK AREAS DELINEATED ON PLANS. THE CONTRACTOR SHALL TAKE WHATEVER ACTIONS AND MEASURES ARE DEEMED NECESSARY BY THE DISTRICT OR AUTHORIZED AGENCY TO ELIMINATE EXCESSIVE SILTATION OR EROSION AND TO STABILIZE THE PROJECT AREA. DISCHARGE OF HAZARDOUS SUBSTANCES INTO STORM WATER IS SUBJECT TO I.E.P.A. REPORTING AND CLEANUP REQUIREMENTS.

### CONTROL MEASURES

EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE BEFORE CONSTRUCTION IN EACH AREA, AS DETERMINED BY THE ENGINEER, AND SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. CONSTRUCTION ACTIVITIES SHALL ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE PRACTICAL. THE FOLLOWING CONTROLS WILL BE PROVIDED AS A MINIMUM FOR THE DURATION OF THIS PROJECT:

- SEDIMENT CONTROL SHALL BE PROVIDED DOWNSLOPE OF ALL STOCKPILE AREAS.
- STABILIZED CONSTRUCTION ENTRANCES MUST BE INSTALLED AS DETAILED AND WHERE REQUIRED BY THE ROADWAY AUTHORITY OR DISTRICT.
- INLET PROTECTION MUST BE INSTALLED FOR ALL INLETS THAT COULD BE SUBJECT TO SILTATION, AS DETERMINED BY THE ENGINEER.
- ALL ROADWAYS SHALL BE KEPT CLEAN OF DEBRIS, MUD, SOIL, AND CONSTRUCTION MATERIALS AND SHALL BE INSPECTED AT THE END OF EACH DAY AND CLEANED AS NECESSARY.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN 7 DAYS IF THEY ARE TO REMAIN DISTURBED FOR MORE THAN 14 DAYS.

### INSPECTIONS

INSPECTIONS MUST BE COMPLETED BY A QUALIFIED PERSON EVERY 7 DAYS AND WITHIN 24 HOURS OF EACH RAIN EVENT WITH OVER 0.5" OF RAIN OR SNOWFALL EQUIVALENT. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REPAIRED AND MODIFIED AS NEEDED TO BE EFFECTIVE AND TO PREVENT EROSION AND POLLUTANTS FROM DISCHARGING FROM SITE. A REPORT SHALL BE COMPLETED WITH EACH INSPECTION, AND SHALL BE KEPT ACCESSIBLE ONSITE WITH THE S.W.P.P.P.

### MAINTENANCE

CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND REPAIR OF ALL EROSION AND SEDIMENT CONTROL DEVICES AND PROTECTIVE MEASURES AS REQUIRED TO MAINTAIN THE INTENDED FUNCTION. SEDIMENT COLLECTED FROM THE CONSTRUCTION SITE SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS AS NEEDED. ANY DEBRIS OR SILT DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, DITCHES, ETC. THAT COULD OBSTRUCT FLOW SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL TEMPORARY EROSION CONTROL DEVICES WITHIN 30 DAYS OF FINAL SITE STABILIZATION APPROVAL BY THE DISTRICT. THE SITE SHALL HAVE A MIN. OF 70% VEGETATIVE COVER TO BE CONSIDERED STABILIZED.

### OTHER DISCHARGES

NON STORM WATER DISCHARGES INCLUDING WASHING OF VEHICLES, CONCRETE WASH-OUT, WATER FOR DUST CONTROL, AND TRENCH DEWATERING DISCHARGES SHALL BE DIRECTED AWAY FROM UNPROTECTED, BARE, OR UNSTABILIZED SOIL AND APPROPRIATE MEASURES SHALL BE IMPLEMENTED TO PREVENT EROSION OR DEGRADATION OF RUNOFF FROM THE SITE. DEWATERING DISCHARGE MUST BE INTO SILT CONTAINMENT BAGS WITH PROPERLY ENGINEERED ANIONIC POLYMER AND FABRIC PORE SIZE. UNDER NO CIRCUMSTANCE SHALL DEWATERING DISCHARGE BE ALLOWED TO FLOW DIRECTLY INTO WATERWAYS. A DEWATERING DISCHARGE PLAN SHALL BE SUBMITTED TO THE DISTRICT FOR APPROVAL.

**CONTRACTOR CERTIFICATION**

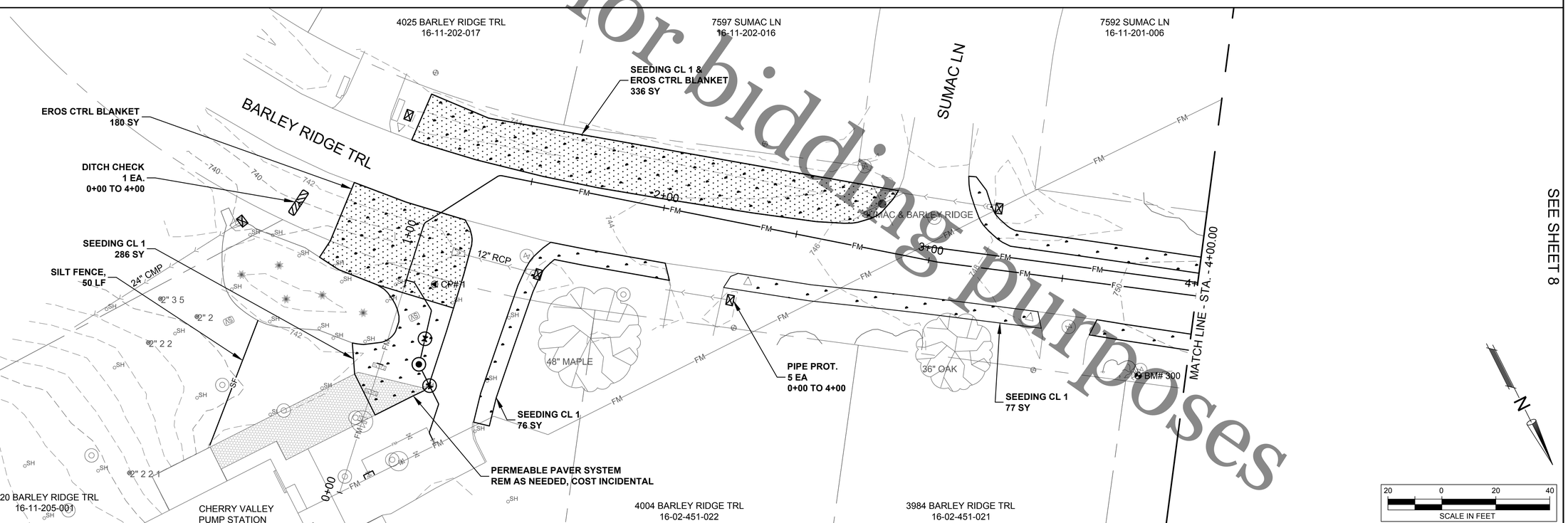
THE UNDERSIGNED CONTRACTOR'S REPRESENTATIVE CERTIFIES THAT HE/SHE UNDERSTANDS THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT (NPDES ILR10) FOR STORM WATER DISCHARGES IMPACTED BY CONSTRUCTION ACTIVITY FROM THE PROJECT SITE(S).

SIGNED:_____ DATE:____

COMPANY:_____

## LEGEND

- SF — SILT FENCE
- DITCH CHECK
- INLET OR PIPE PROTECTION
- STABILIZED CONSTRUCTION ENTRANCE
- EROSION CONTROL BLANKET
- TURF REINFORCEMENT MAT
- SEEDING, CLASS 1
- SEEDING, CLASS 4
- AGGREGATE DRIVE
- RIP RAP

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Rock River Water Reclamation District
ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

| No. | DATE | REVISION | INT. |
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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**EROSION CONTROL & PERMANENT SEEDING PLAN 01**
(S.W.P.P.P.)

FOR BID

Sheet No. 7 OF 80

Date 3/3/2020

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SEE SHEET 7

7592 SUMAC LN
16-11-201-006

3941 BARLEY RIDGE TRL
16-11-201-005

3919 BARLEY RIDGE TRL
16-02-452-004

3901 BARLEY RIDGE TRL
16-02-452-003

3887 BARLEY RIDGE TRL
16-02-452-002

PIPE PROT.
TYP. 2 EA.
4+00 TO 9+00

SEEDING CL 1
145 SY

SEEDING CL 1
62 SY

SEEDING CL 1
25 SY

SEEDING CL 1
44 SY

SEEDING CL 1
48 SY

MATCH LINE - STA. - 4+00.00

4+00 5+00 6+00 7+00 8+00 9+00

BARLEY RIDGE TRL

CP# 2

752

SEEDING CL 1
50 SY

SEEDING CL 1
38 SY

SEEDING CL 1
63 SY

SEEDING CL 1
53 SY

SEEDING CL 1
25 SY

SEEDING CL 1
48 SY

MATCH LINE - STA. - 9+00.00

3962 BARLEY RIDGE TRL
16-02-451-020

3944 BARLEY RIDGE TRL
16-02-451-019

3922 BARLEY RIDGE TRL
16-02-451-018

3906 BARLEY RIDGE TRL
16-02-451-017

3892 BARLEY RIDGE TRL
16-02-451-016

3869 BARLEY RIDGE TRL
16-02-452-001

3849 BARLEY RIDGE TRL
16-02-379-011

3855 BARLEY RIDGE TRL
16-02-379-010

RUSSETT WOOD TRL

PIPE PROT.
TYP. 9 EA.
9+00 TO 14+00

SEEDING CL 1
58 SY

SEEDING CL 1
142 SY

BAREY RIDGE & RUSSETT WOOD

MATCH LINE - STA. - 9+00.00

9+00 10+00 11+00 12+00 13+00 14+00

BARLEY RIDGE TRL

BM# 301

SEEDING CL 1
43 SY

SEEDING CL 1
94 SY

SEEDING CL 1
45 SY

SEEDING CL 1
49 SY

19" S MAPLE

SEEDING CL 1
79 SY

MATCH LINE - STA. - 14+00.00

SEE SHEET 9

3874 BARLEY RIDGE TRL
16-02-451-015

3858 BARLEY RIDGE TRL
16-02-451-014

3840 BARLEY RIDGE TRL
16-02-377-004

3826 BARLEY RIDGE TRL
16-02-377-003

3808 BARLEY RIDGE TRL
16-02-377-002

SCALE IN FEET: 20 0 20 40

Rock River Water Reclamation District
ROCK RIVER WATER RECLAMATION DISTRICT
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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**EROSION CONTROL & PERMANENT SEEDING PLAN 02**
(S.W.P.P.P.)

FOR BID

Sheet No.
8 OF 80

Date
3/3/2020

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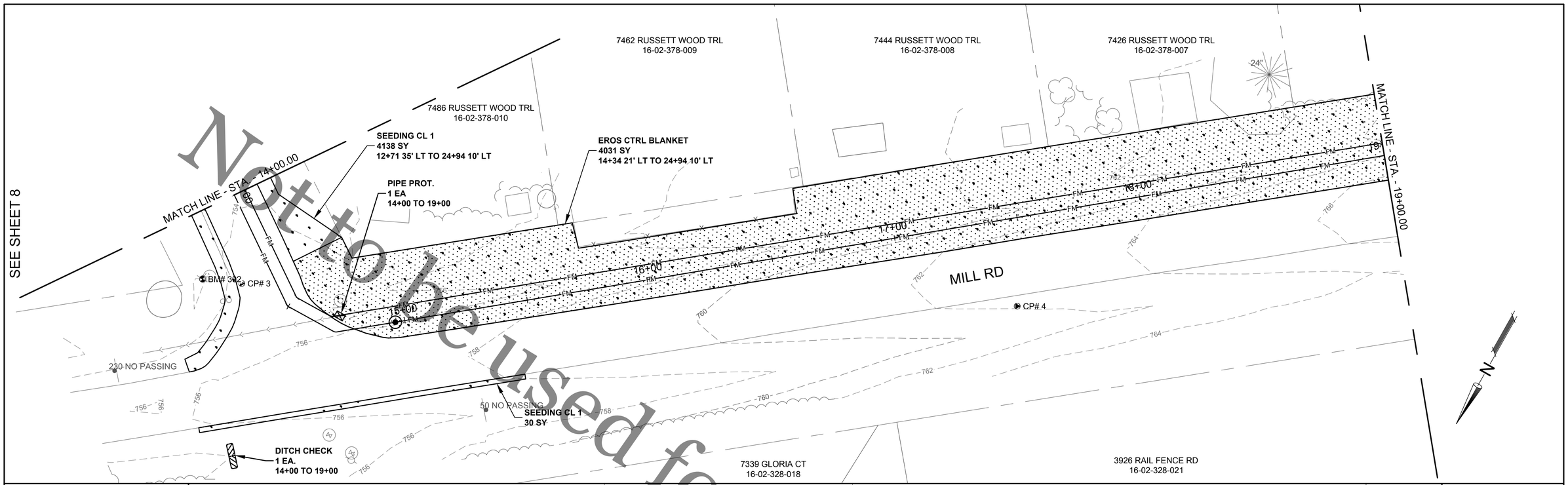
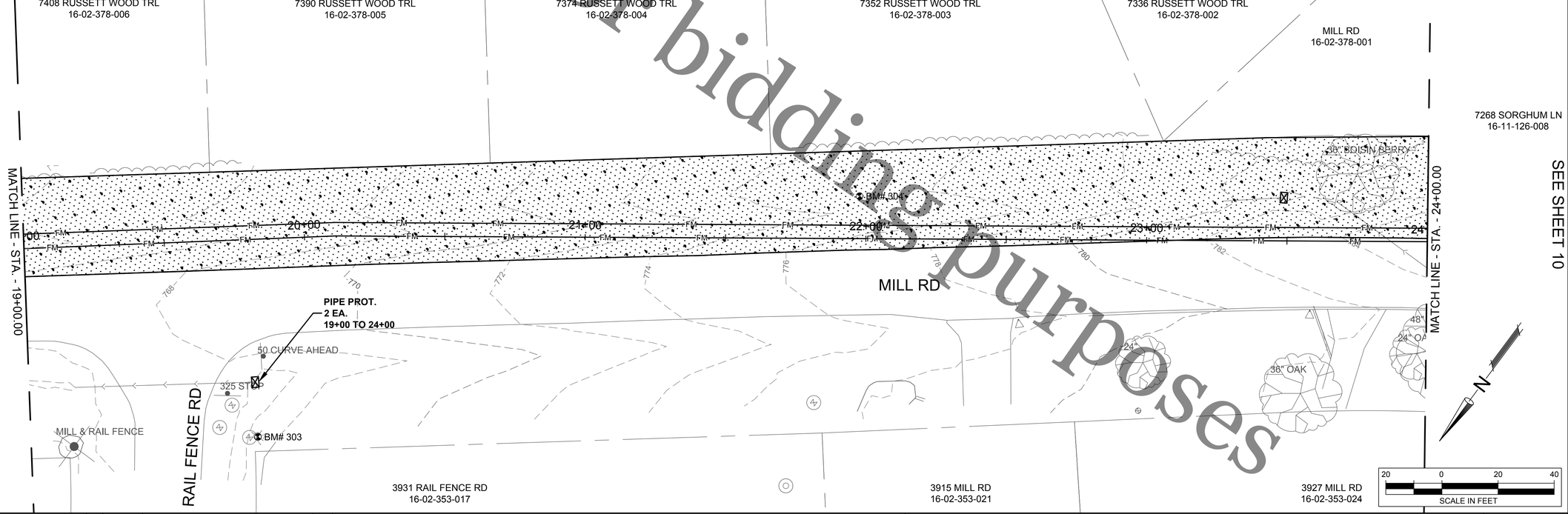
Not to be used for bidding Purposes

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Rock River Water Reclamation District
ROCK RIVER WATER
RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

| No. | DATE | REVISION | INT. |
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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**EROSION CONTROL & PERMANENT SEEDING PLAN 03**
(S.W.P.P.P.)

FOR BID

Sheet No.
9 OF 80

Date
3/3/2020

SEE SHEET 9

7268 SORGHUM LN
16-11-126-008

3956 MILL RD
16-11-126-010

4008 KINDLEWOOD TRL
16-11-126-001

KINDLEWOOD TRL

SEEDING CL 1 &
EROS CTRL BLANKET
299 SY

SEEDING CL 1 &
EROS CTRL BLANKET
881 SY

MILL RD

MATCH LINE - STA. - 24+00.00

MATCH LINE - STA. - 29+00.00

CP# 5

CP# 6

BM# 305

PIPE PROT.
5 EA
24+00 TO 29+00

42" OAK

48" S MAPLE

MILL & KINDLEWOOD

3927 MILL RD
16-02-353-024

3939 MILL RD
16-02-353-023

3945 MILL RD
16-02-353-015

3959 MILL RD
16-02-353-014

4015 KINDLEWOOD TRL
16-11-102-001

7126 SORGHUM LN
16-11-102-011

7112 SORGHUM LN
16-11-102-010

7098 SORGHUM LN
16-11-102-009

SEEDING CL 1 &
EROS CTRL BLANKET
3702 SY
28+27 39" LT TO 37+77 63" LT

MATCH LINE - STA. - 29+00.00

MATCH LINE - STA. - 33+00.00

MILL RD

28" ASH

36" MAPLE

3975 MILL RD
16-02-353-013

7007 FARMHOME LN
16-02-353-001

SEE SHEET 11

SCALE IN FEET

Not to be used for bidding purposes

ROCK RIVER WATER
RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**EROSION CONTROL & PERMANENT SEEDING PLAN 04**
(S.W.P.P.P.)

FOR BID

Sheet No.
10 OF 80

Date
3/3/2020

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Not to be used for bidding purposes

SEE SHEET 10

7084 SORGHUM LN
16-11-102-008

7070 SORGHUM LN
16-11-102-007

7056 SORGHUM LN
16-11-102-006

7042 SORGHUM LN
16-11-102-005

MATCH LINE - STA. - 33+00.00

MATCH LINE - STA. - 37+00.00

BM# 306

70 SPEED LIMIT

70 WEIGHT RESTRICT

MILL RD

INLET PROT.
1 EA
33+00 TO 37+00

CP# 7

90 STOP AHEAD

FARMHOME LN

0 STOP

12" MAPLE

18" MAPLE

7028 SORGHUM LN
16-11-102-012

7012 FARMHOME LN
16-02-351-023

7012 WHEATLAND TER
16-02-351-021

N

MATCH LINE - STA. - 37+00.00

INLET PROT.
5 EA
37+00 TO 43+00

DITCH CHECK
2 EA.
37+00 TO 43+00

MILL RD

SEEDING CL 1
257 SY

SILT FENCE
103 LF

STAB CONST ENT
70 SY

BM# 307

90 STOP

PERRYVILLE RD

CP# 8

20" MAPLE

24" OAK

AGGREGATE DRIVE
415 SY

SILT FENCE
471 LF
40+06 76' LT TO 44+18 79' LT

CP# 9

STAB CONST ENT
104 SY

MATCH LINE - STA. - 43+00.00

SILT FENCE
380 LF
40+35 16' RT TO 44+19 48' RT

EROS CTRL BLANKET
1480 SY

SILT FENCE
220 LF

7020 WHEATLAND TER
16-02-351-024

N

20 0 20 40
SCALE IN FEET

SEE SHEET 12

file: I:\District Projects\Cherry Valley Parallel FM 1420\Engineering\Dwgs\Erosion Control & Seeding.dwg

Rock River Water Reclamation District
ROCK RIVER WATER
RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

| No. | DATE | REVISION | INT. |
|---|---|---|---|
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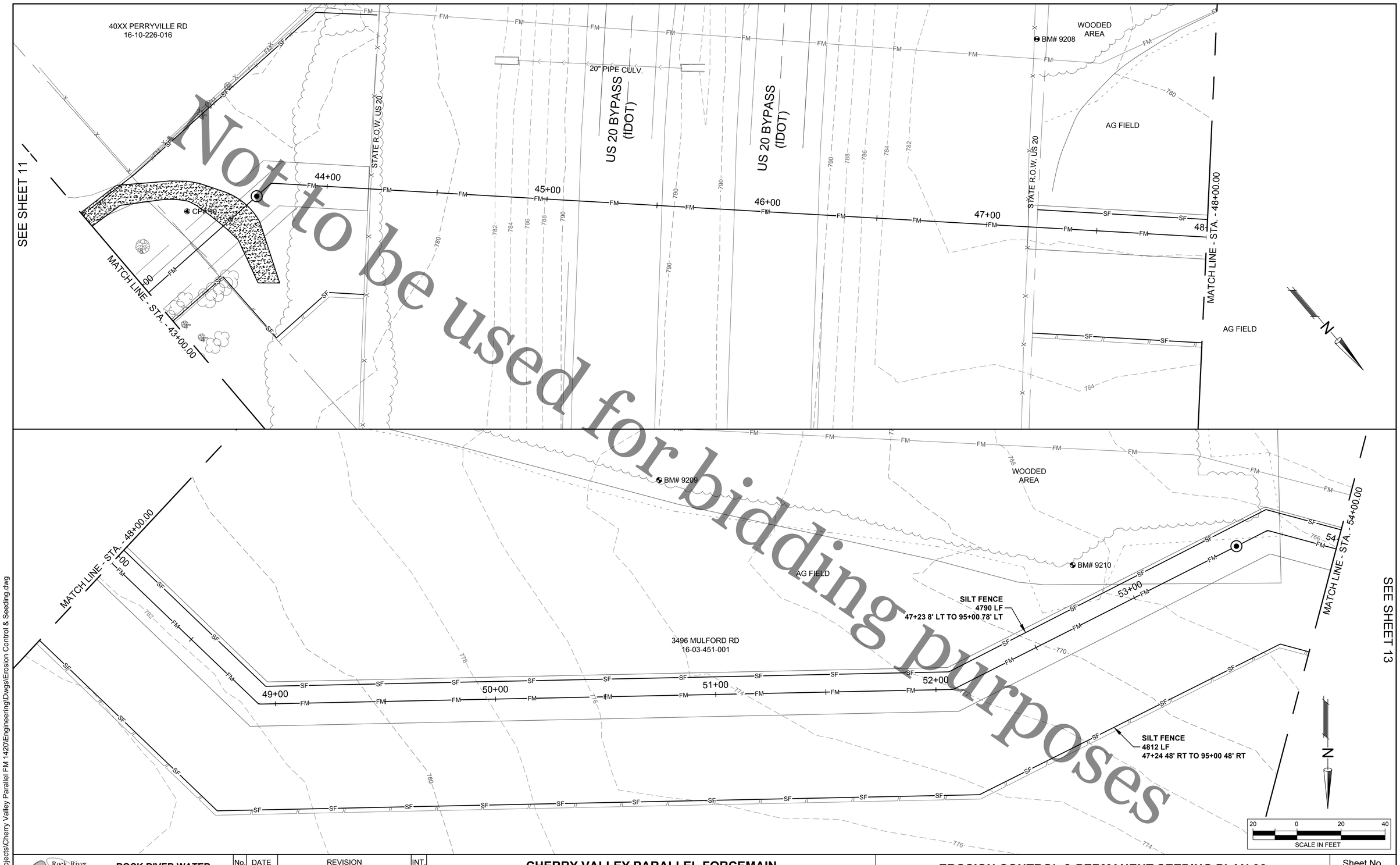
**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**EROSION CONTROL & PERMANENT SEEDING PLAN 05**
(S.W.P.P.P.)

FOR BID

Sheet No.
11 OF 80

Date
3/3/2020




Not to be used for bidding purposes

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Rock River Water Reclamation District

ROCK RIVER WATER
RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**EROSION CONTROL & PERMANENT SEEDING PLAN 06**
(S.W.P.P.P.)

Sheet No.
12 OF 80

FOR BID

Date
3/3/2020

SEE SHEET 12

Not to be used for bidding purposes

MATCH LINE - STA. - 54+00.00

WOODED AREA

BM# 9211

764

FM

SF

00

55+00

56+00

57+00

58+00

59

MATCH LINE - STA. - 59+00.00

AG FIELD

3496 MULFORD RD
16-03-451-001

N

768

764

WOODED AREA

BM# 9212

MATCH LINE - STA. - 59+00.00

00

60+00

61+00

62+00

63+00

64

MATCH LINE - STA. - 64+00.00

AG FIELD

766

TURF REINFORCEMENT MAT
126 SY

3496 MULFORD RD
16-03-451-001

20 0 20 40
SCALE IN FEET

SEE SHEET 14

file: I:\District Projects\Cherry Valley Parallel FM 1420\Engineering\Dwgs\Erosion Control & Seeding.dwg

Rock River Water Reclamation District

ROCK RIVER WATER
RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

| No. | DATE | REVISION | INT. |
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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

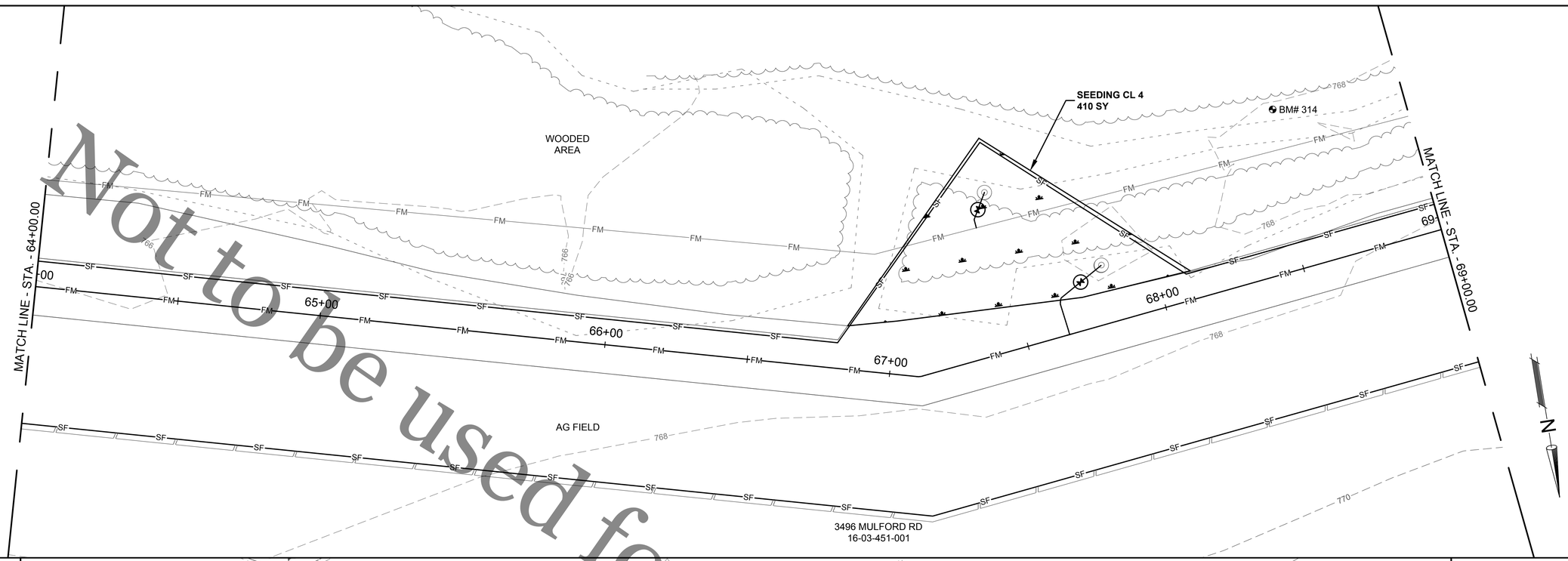
**EROSION CONTROL & PERMANENT SEEDING PLAN 07**
(S.W.P.P.P.)

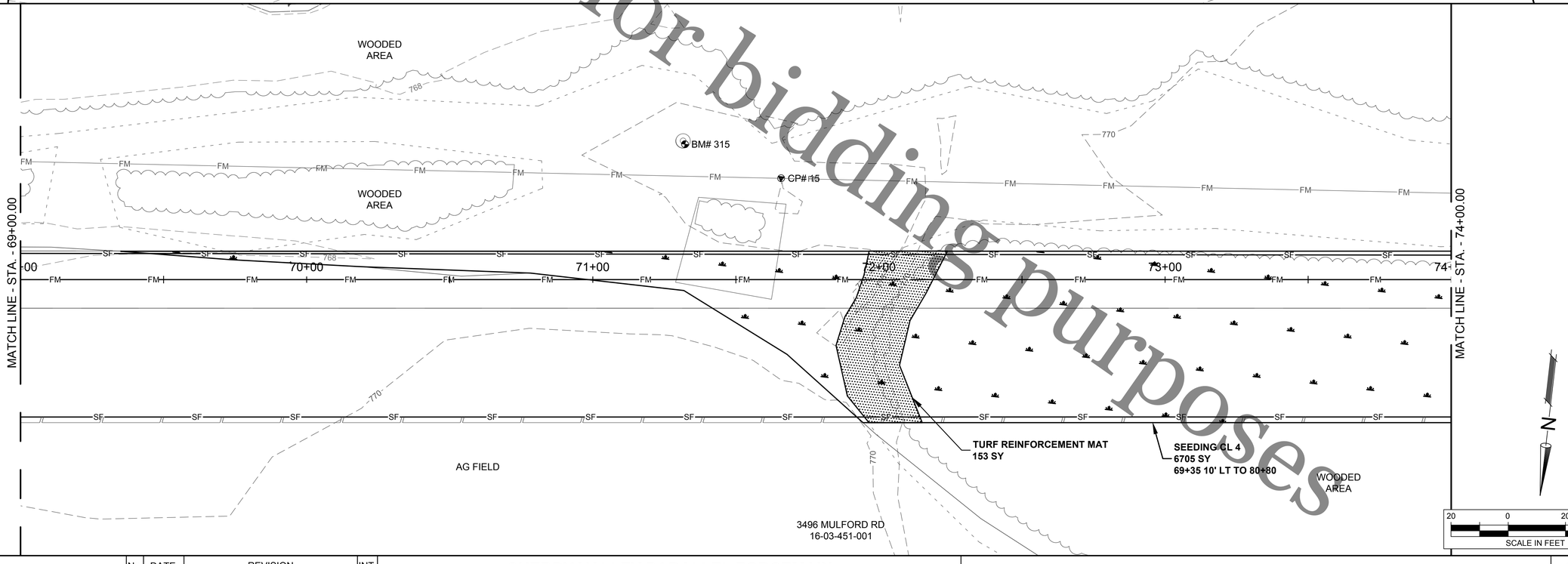
FOR BID

Sheet No.
13 OF 80

Date
3/3/2020

SEE SHEET 13




SEE SHEET 15

Not to be used for bidding purposes

Rock River Water Reclamation District

ROCK RIVER WATER
RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**EROSION CONTROL & PERMANENT SEEDING PLAN 08**
(S.W.P.P.P.)

Sheet No.
14 OF 80

FOR BID

Date
3/3/2020

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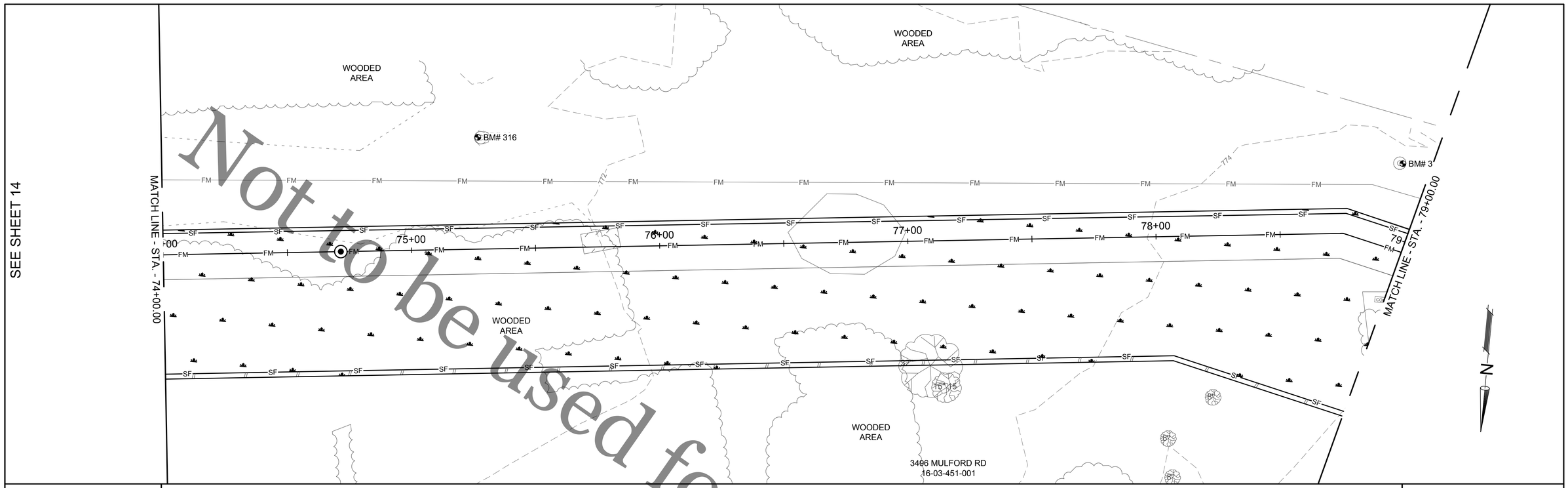
SEE SHEET 14




SEE SHEET 16

Not to be used for bidding purposes

Rock River Water Reclamation District
ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**EROSION CONTROL & PERMANENT SEEDING PLAN 09**
(S.W.P.P.P.)

Sheet No. 15 OF 80

FOR BID

Date 3/3/2020

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SEE SHEET 15

MATCH LINE - STA. - 84+00.00

MATCH LINE - STA. - 89+00.00

BM# 321

SEEDING CL 4
7412 SY
82+73 10' LT TO 95+00

STEEL FENCE POSTS, TYP.

WOODED AREA

WOODED AREA

3496 MULFORD RD
16-03-451-001

BM# 322

CP# 31

MATCH LINE - STA. - 89+00.00

MATCH LINE - STA. - 94+00.00

WOODED AREA

WOODED AREA

EDGE OF AG FIELD

AG FIELD

3496 MULFORD RD
16-03-451-001

SEE SHEET 17

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20 0 20 40
SCALE IN FEET

ROCK RIVER WATER
RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**EROSION CONTROL & PERMANENT SEEDING PLAN 10**
(S.W.P.P.P.)

Sheet No.
16 OF 80

FOR BID

Date
3/3/2020

file: I:\District Projects\Cherry Valley Parallel FM 1420\Engineering\Dwgs\Erosion Control & Seeding.dwg

SEE SHEET 16

EROS CTRL BLANKET
494 SY
94+65 TO 95+00

STAB CONST ENT
310 SY

BM# 323

MATCH LINE - STA. - 94+00.00

EX ENTRANCE
WITH 15" CMP
(INSTALLED 2018 AFTER
TOPOGRAPHIC SURVEY)

EDGE OF FIELD

WINNEBAGO COUNTY R.O.W.

180 RAILROAD CROSSING

MULFORD RD.

270 MEMORIAL CROSS

WINNEBAGO COUNTY R.O.W.

WOODED
AREA

SILT FENCE
4725 LF
96+01 48' LT TO 142+72 0'

TEMP CULVERT AS
REQUIRED BY COUNTY
(INCIDENTAL)

EROS CTRL BLANKET
516 SY
96+00 TO 96+50

SILT FENCE
4695 LF
96+00 48' RT TO 142+72 0'

DIRT PATH

MATCH LINE - STA. - 99+00.00

3496 MULFORD RD
16-03-451-001

3401 MULFORD RD
16-04-402-001

N

SEE SHEET 18

MATCH LINE - STA. - 99+00.00

SEEDING CL 4
6312 SY
96+00 TO 104+96

BM# 324

BM# 325

WOODED
AREA

MATCH LINE - STA. - 104+00.00

WOODED
AREA

3401 MULFORD RD
16-04-402-001

N

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SCALE IN FEET

Not to be used for bidding purposes

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Rock River Water Reclamation District
ROCK RIVER WATER
RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

| No. | DATE | REVISION | INT. |
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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**EROSION CONTROL & PERMANENT SEEDING PLAN 11**
(S.W.P.P.P.)

FOR BID

Sheet No.
17 OF 80

Date
3/3/2020

SEE SHEET 17

MATCH LINE - STA. - 104+00.00

MATCH LINE - STA. - 109+00.00

AGGREGATE DRIVE, 6"
95 SY

SEEDING CL 4
1509 SY
105+09 TO 108+10

BM# 9202

WOODED AREA

AGGREGATE DRIVE
315 SY, 6"

DIRT PATH

SEEDING CL 4
9635 SY
108+71 TO 131+06

CP# 28

WOODED AREA

3401 MULFORD RD
16-04-402-001

MATCH LINE - STA. - 109+00.00

MATCH LINE - STA. - 114+00.00

CP# 27

TURF REINFORCEMENT MAT
130 SY

DIRT PATH

CP# 26

WOODED AREA

AGGREGATE DRIVE, 6"
2265 SY
STA ±111+00 TO 131+06

WOODED AREA

3401 MULFORD RD
16-04-402-001

SEE SHEET 19

20 0 20 40
SCALE IN FEET

Not to be used for bidding purposes

Rock River Water Reclamation District
ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

| No. | DATE | REVISION | INT. |
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CHERRY VALLEY PARALLEL FORCEMAIN
CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667

EROSION CONTROL & PERMANENT SEEDING PLAN 12
(S.W.P.P.P.)

Sheet No.
18 OF 80

FOR BID

Date
3/3/2020

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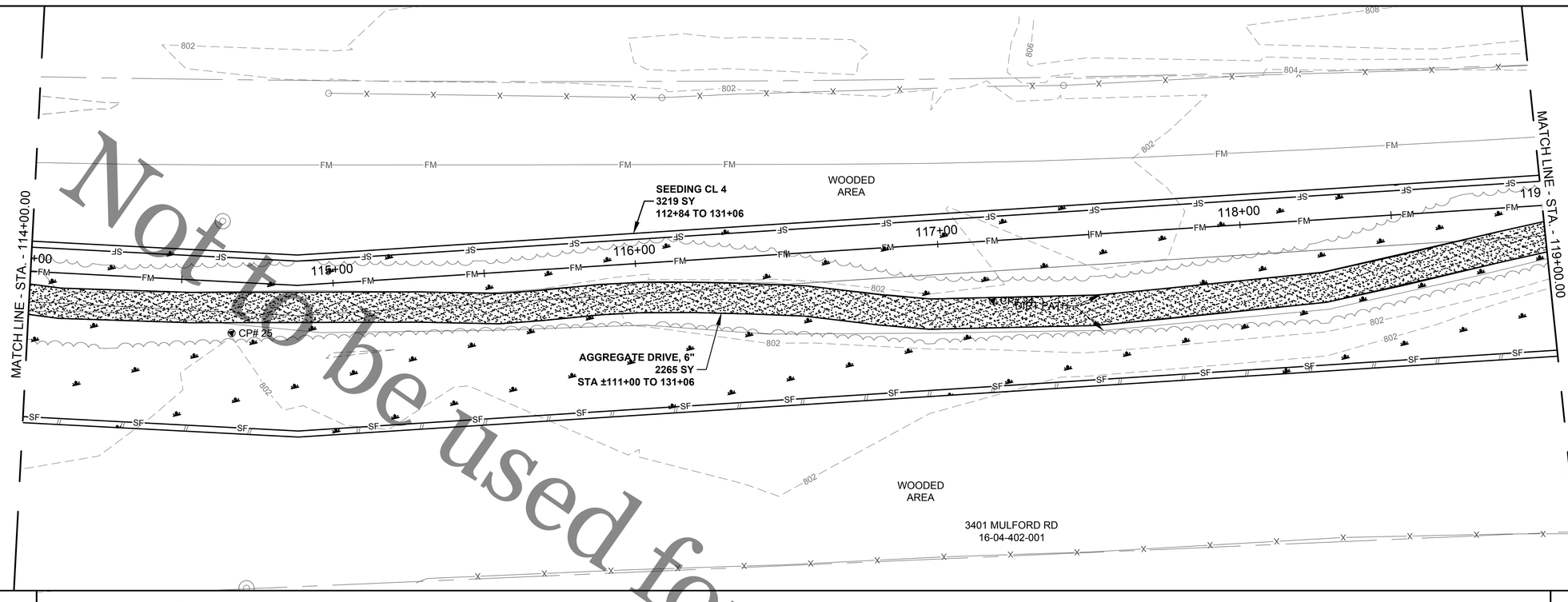
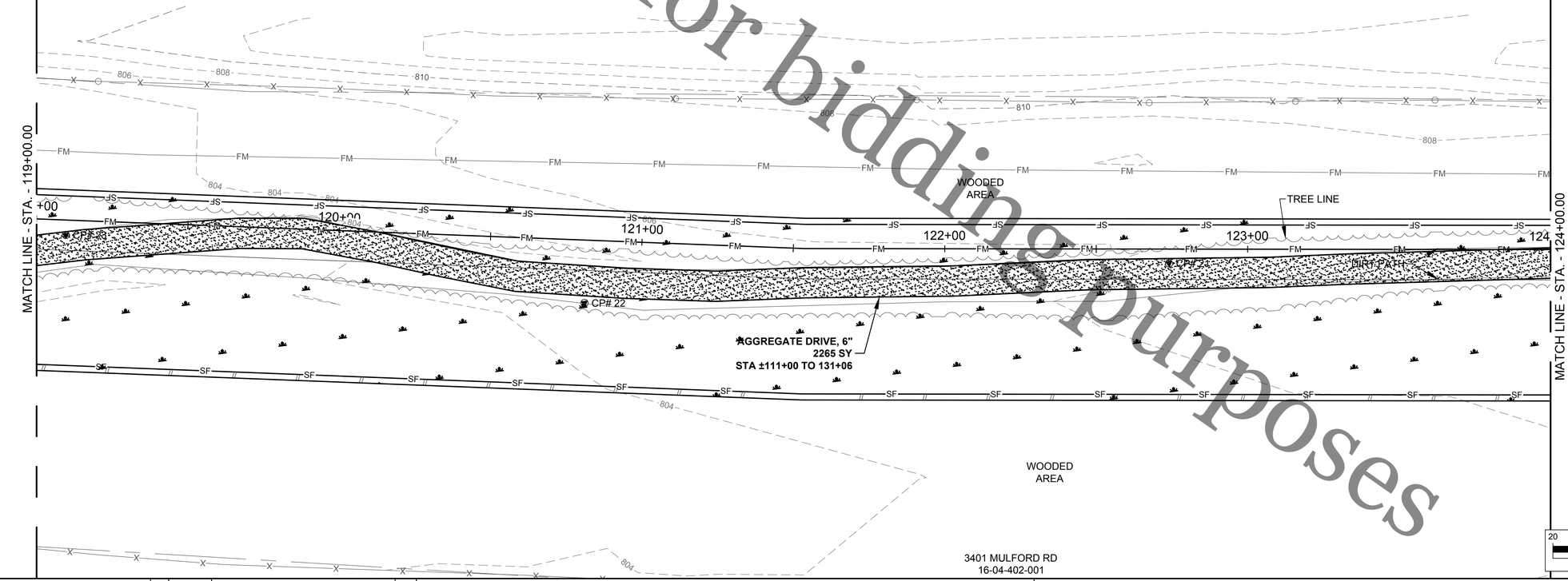
SEE SHEET 18




SEE SHEET 20

Not to be used for bidding purposes

ROCK RIVER WATER
RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**EROSION CONTROL & PERMANENT SEEDING PLAN 13**
(S.W.P.P.P.)

FOR BID

Sheet No. 19 OF 80

Date 3/3/2020

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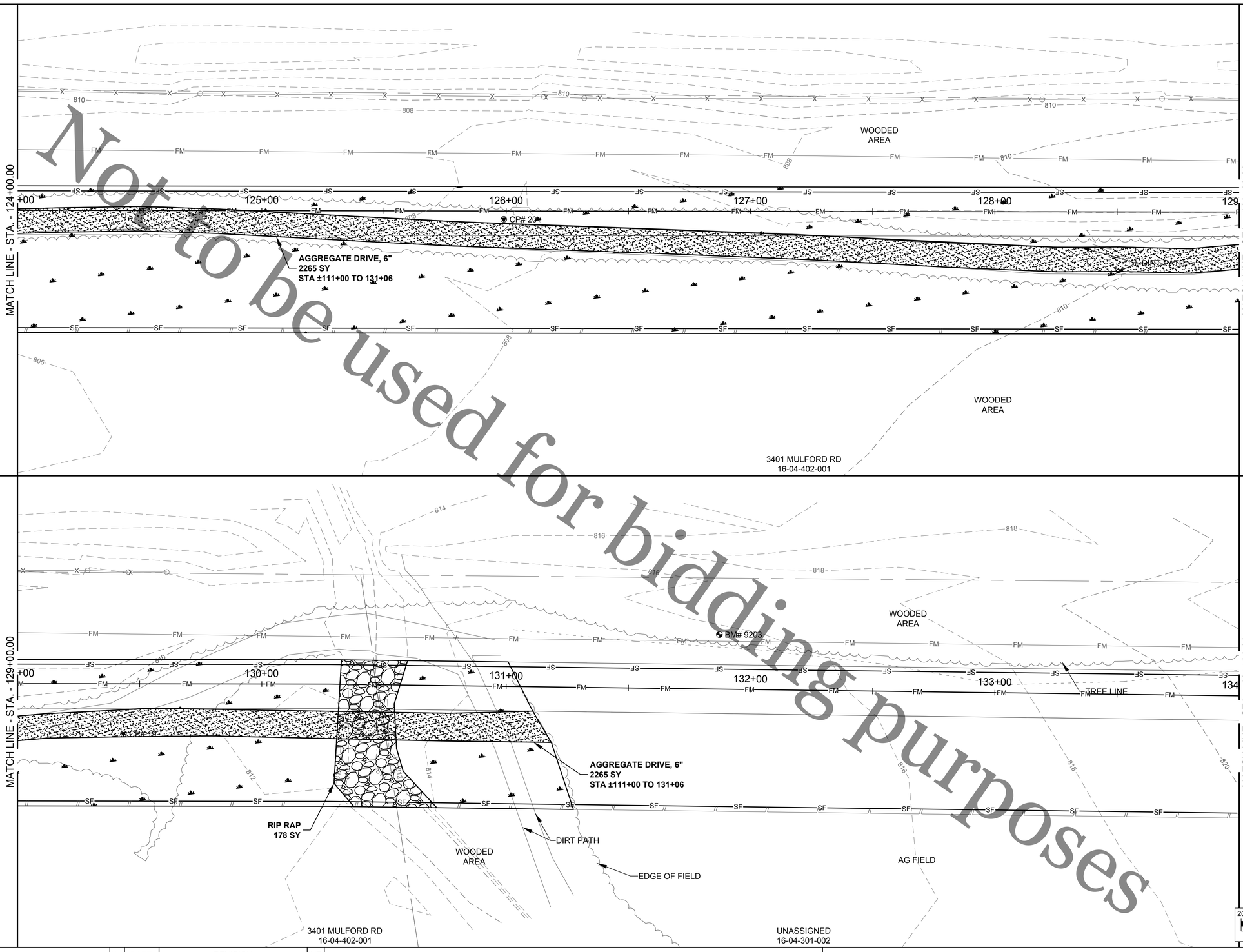
SEE SHEET 19

MATCH LINE - STA. - 124+00.00

MATCH LINE - STA. - 129+00.00

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SEE SHEET 21

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Rock River Water Reclamation District
ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

| No. | DATE | REVISION | INT. |
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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**EROSION CONTROL & PERMANENT SEEDING PLAN 14**
(S.W.P.P.P.)

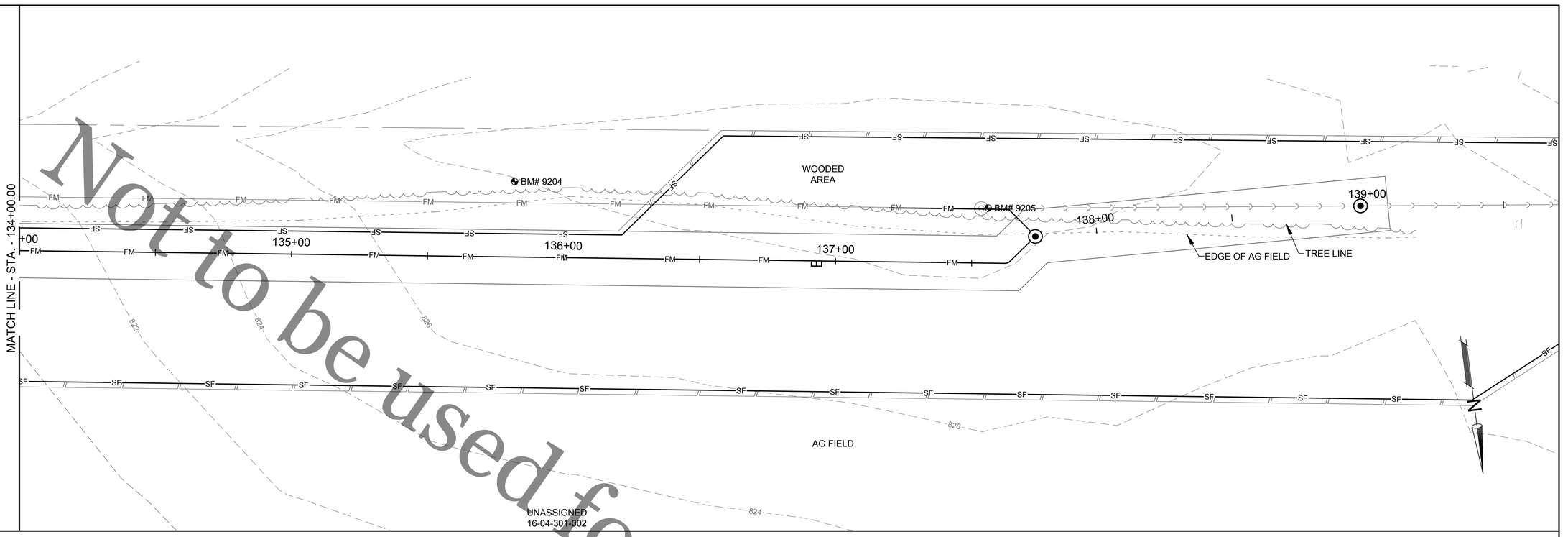
FOR BID

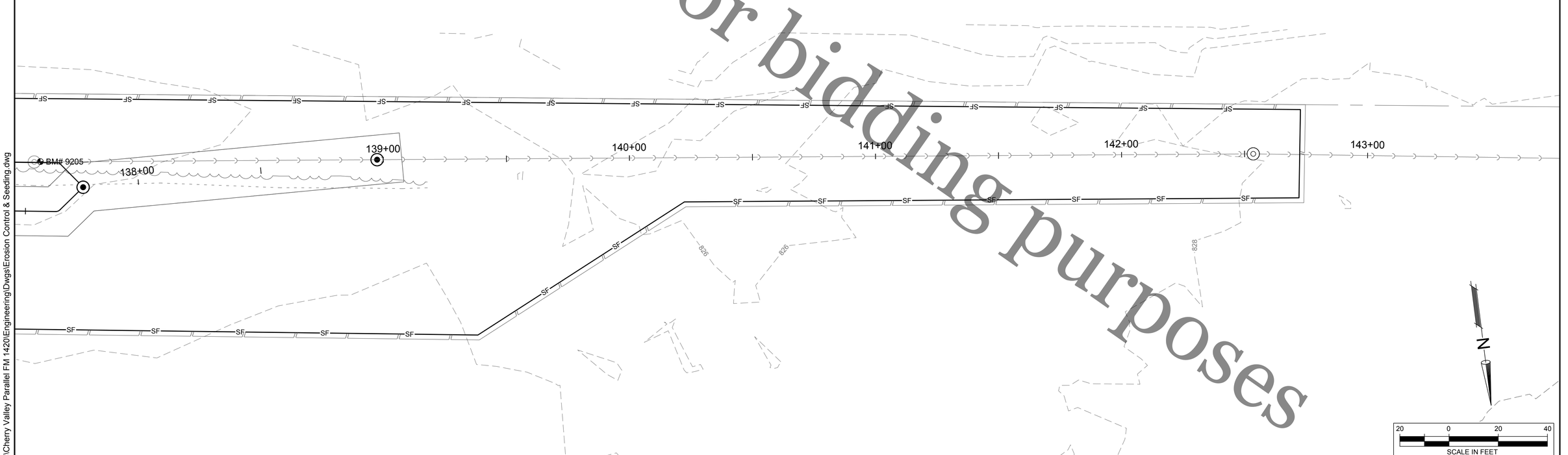
Sheet No. 20 OF 80

Date 3/3/2020

SEE SHEET 20

MATCH LINE - STA. - 134+00.00

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Rock River Water Reclamation District

ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

| No. | DATE | REVISION | INT. |
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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**EROSION CONTROL & PERMANENT SEEDING PLAN 15**
(S.W.P.P.P.)

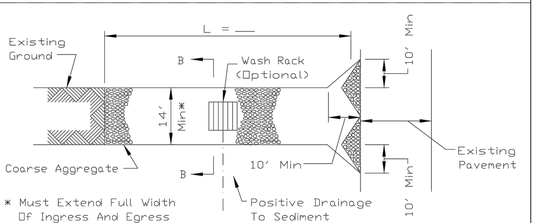
FOR BID

Sheet No. 21 OF 80

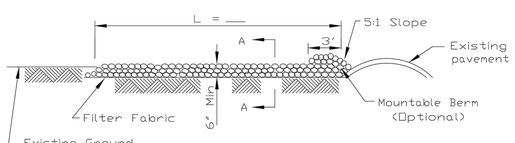
Date 3/3/2020

Not to be used for bidding purposes

## STABILIZED CONSTRUCTION ENTRANCE PLAN




PLAN VIEW

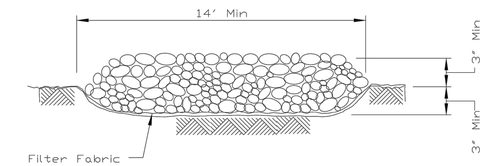



SIDE ELEVATION

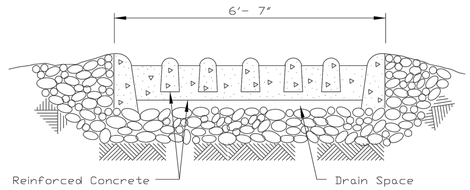
NOTES:
1. Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table I or 2, Class I, II or IV and shall be placed over the cleared area prior to the placing of rock.
2. Rock or reclaimed concrete shall meet one of the following IDOT coarse aggregate gradation, CA-1, CA-2, CA-3 or CA-4 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
3. Any drainage facilities required because of washing shall be constructed according to manufacturers specifications.
4. If wash racks are used they shall be installed according to the manufacturer's specifications.

| REFERENCE | | NRCS | STANDARD DWG. NO. |
|---|---|---|---|
| Project | | Natural Resources Conservation Service | IL-630 |
| Designed ____ Date ____ | | | SHEET 1 OF 2 |
| Checked ____ Date ____ | | | DATE 8-18-94 |
| Approved ____ Date ____ | | | |

## STABILIZED CONSTRUCTION ENTRANCE PLAN

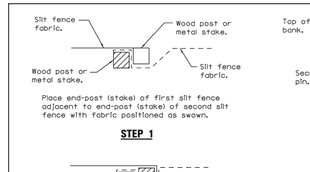



SECTION A-A




SECTION B-B

| REFERENCE | | NRCS | STANDARD DWG. NO. |
|---|---|---|---|
| Project | | Natural Resources Conservation Service | IL-630 |
| Designed ____ Date ____ | | | SHEET 2 OF 2 |
| Checked ____ Date ____ | | | DATE 8-18-94 |
| Approved ____ Date ____ | | | |




Place end-post (stake) of first silt fence adjacent to end-post (stake) of second silt fence with fabric positioned as shown.

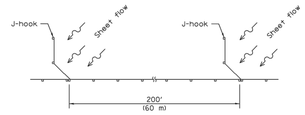
**STEP 1**



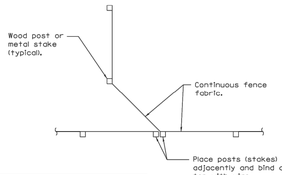
Rotate posts (stakes) together 180° clockwise and drive both posts (stakes) 18 (450) into ground.

**STEP 2**

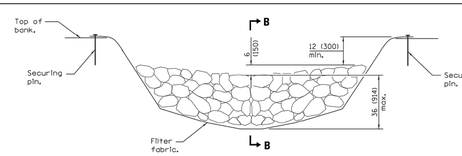
**ATTACHING TWO SILT FILTER FENCES**
(Not applicable for J-hooks)




**SILT FILTER J-HOOK PLACEMENT**

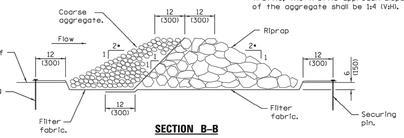



**J-HOOK**



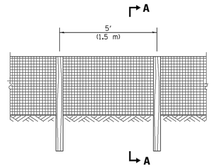

**ELEVATION**

- When the ditch check is within the clear zone and the road is open to traffic, the traffic approach slope of the aggregate shall be 1:4 (V:H).



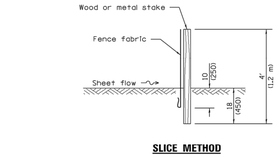

**SECTION B–B**

**AGGREGATE DITCH CHECK**

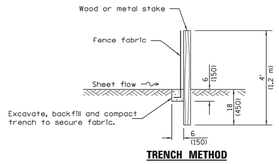



**ELEVATION**

**SILT FILTER FENCE AS A PERIMETER EROSION BARRIER**




**SLICE METHOD**




**TRENCH METHOD**

**SECTION A–A**

**GENERAL NOTES**

The installation details and dimensions shown for perimeter erosion barriers shall also apply for inlet and pipe protection.

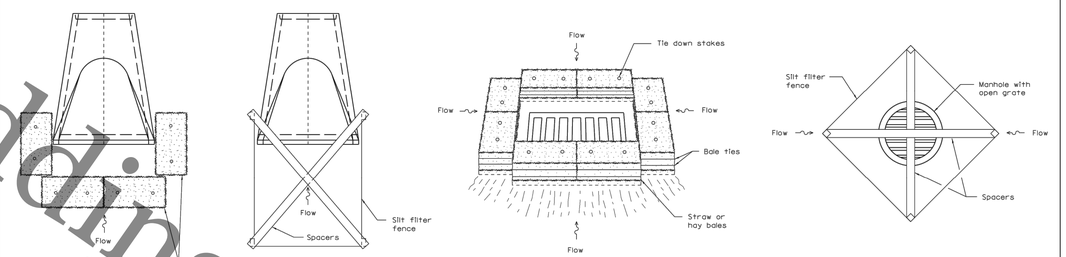
All dimensions are in inches (millimeters) unless otherwise shown.

| DATE | REVISIONS |
|---|---|
| 1-1-13 | Corrected notation for flowline (℄ ) on SEDIMENT BASIN ELEVATION. |
| 1-1-12 | Omitted hay/straw perimeter barrier. Added SLICE METHOD to SECTION A-A. |

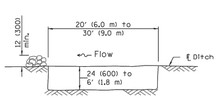
Illinois Department of Transportation
PASSED January 1, 2013 — ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2013 — ENGINEER OF DESIGN AND ENVIRONMENT
BDE/ISTD 14-11

**TEMPORARY EROSION CONTROL SYSTEMS**
(Sheet 1 of 2)

**STANDARD 280001-07**

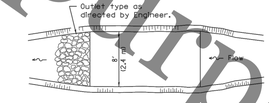



**INLET AND PIPE PROTECTION**




The performance of the basin will improve if put into a series.

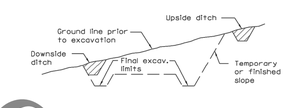
**ELEVATION**



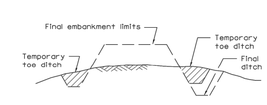

The long dimension should be parallel with the direction of the flow. Accumulated silt shall be removed anytime the basins become 75% filled.

**PLAN**

**SEDIMENT BASIN**




**TYPICAL CUT CROSS-SECTION**




**TYPICAL FILL CROSS-SECTION**

**TEMPORARY DITCHES FOR CUT & FILL SECTIONS**

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**TEMPORARY EROSION CONTROL SYSTEMS**
(Sheet 2 of 2)

**STANDARD 280001-07**

Rock River Water Reclamation District
**ROCK RIVER WATER RECLAMATION DISTRICT**
**3501 KISHWAUKEE STREET**
**ROCKFORD, ILLINOIS 61109**
**(815) 387-7660**

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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**EROSION CONTROL DETAILS**

Sheet No. 22 OF 80

FOR BID

Date 3/3/2020

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NOTES:

TRAFFIC CONTROL:
1. REFER TO SECTION 2, PART 29 AND SECTION 4 OF SPECIFICATIONS.

EASEMENTS:
1. SEE SECTION 3 OF SPECIFICATIONS FOR SPECIFIC EASEMENT PROVISIONS/REQUIREMENTS.

CONSTRUCTION STAGING
1. THE CONTRACTOR SHALL COMPLETE INSTALLATION OF CASING PIPE UNDER MULFORD RD., US 20, AND PERRYVILLE RD. IN 2019.
2. THE CONTRACTOR SHALL NOT CUT PAVEMENT ON BARLEY RIDGE TRL. OR MILL RD. UNTIL 2020. FINAL PAVEMENT MAY NOT BE PLACED UNTIL NEW FORCE MAIN IS SATISFACTORILY TESTED.

N

Rock River Water Reclamation District

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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**PROPOSED FORCEMAIN ALIGNMENT**
**PLAN & PROFILE SHEET INDEX & CONSTRUCTION STAGING**

FOR BID

Sheet No. 23 OF 80

Date 3/3/2020

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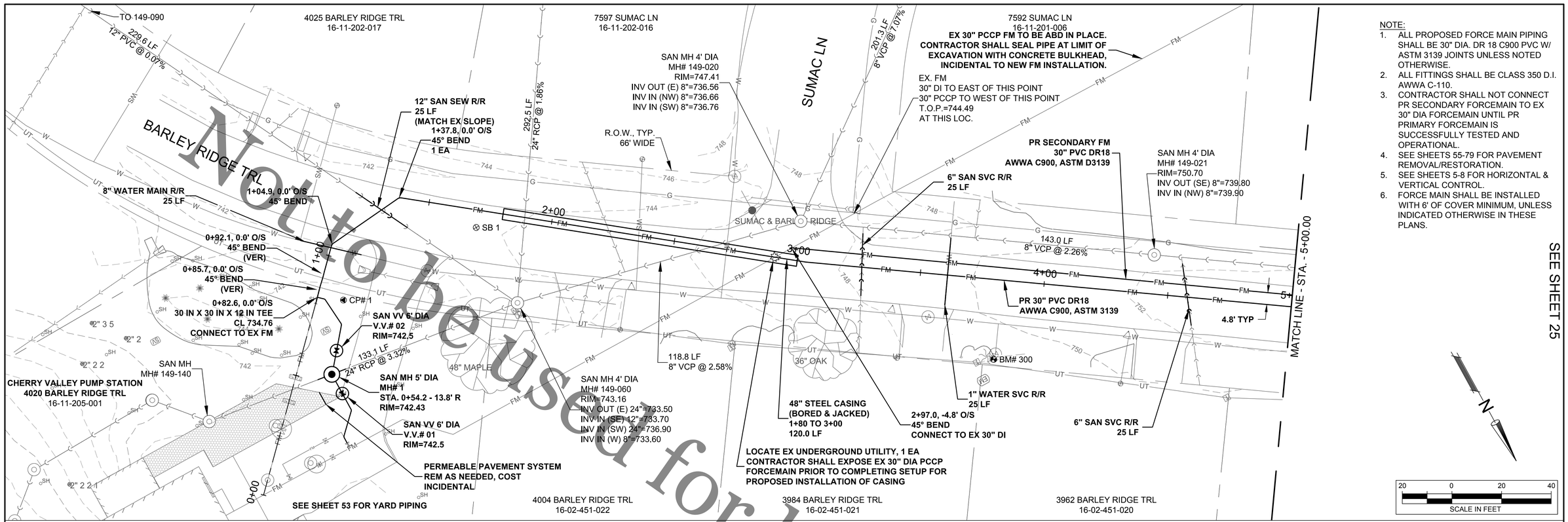


NOTE:
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2. ALL FITTINGS SHALL BE CLASS 350 D.I. AWWA C-110.
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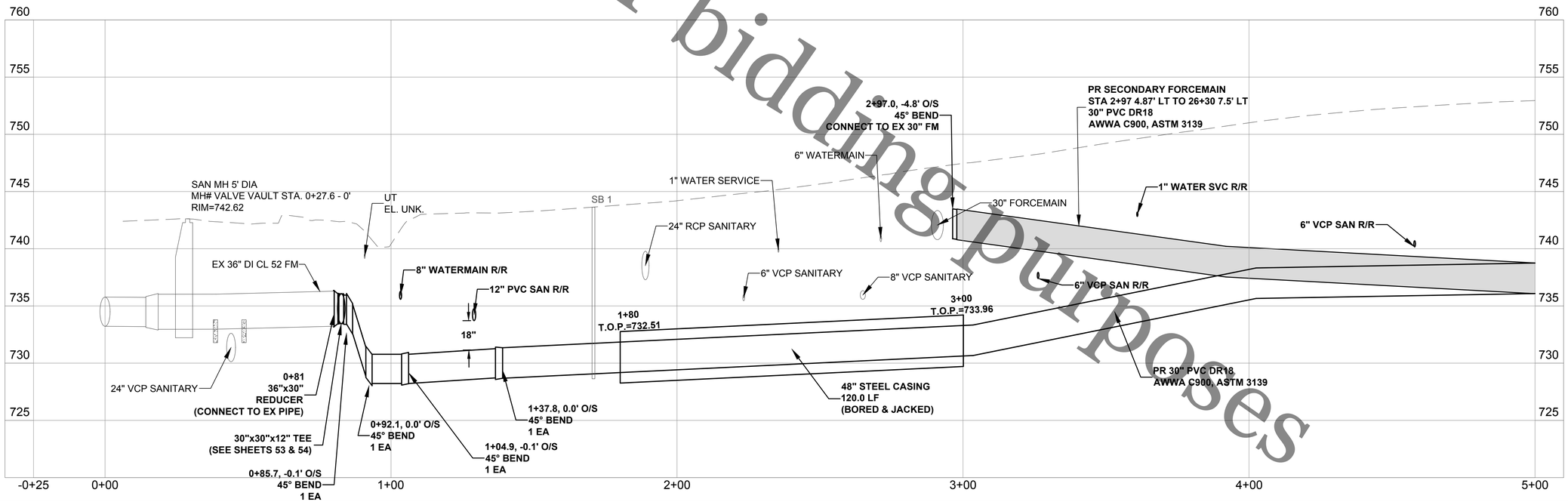
4. SEE SHEETS 55-79 FOR PAVEMENT REMOVAL/RESTORATION.
5. SEE SHEETS 5-8 FOR HORIZONTAL & VERTICAL CONTROL.
6. FORCE MAIN SHALL BE INSTALLED WITH 6' OF COVER MINIMUM, UNLESS INDICATED OTHERWISE IN THESE PLANS.

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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**PLAN & PROFILE STA. 0+00.00 TO 5+00.00**

Sheet No. 24 OF 80

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SEE SHEET 24

SEE SHEET 26

MATCH LINE - STA. - 5+00.00

MATCH LINE - STA. - 10+00.00

3941 BARLEY RIDGE TRL
16-11-201-005

3919 BARLEY RIDGE TRL
16-02-452-004

3901 BARLEY RIDGE TRL
16-02-452-003

3887 BARLEY RIDGE TRL
16-02-452-002

3869 BARLEY RIDGE TRL
16-02-452-001

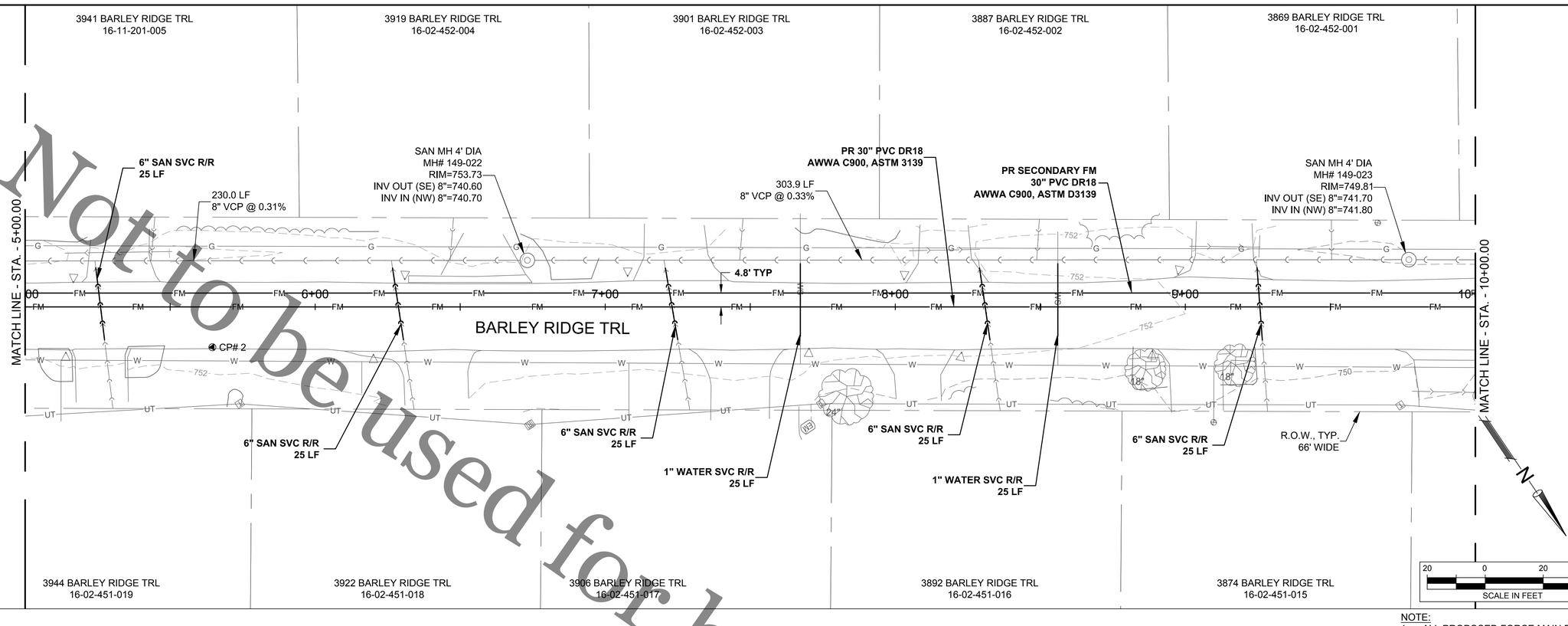
3944 BARLEY RIDGE TRL
16-02-451-019

3922 BARLEY RIDGE TRL
16-02-451-018

3906 BARLEY RIDGE TRL
16-02-451-017

3892 BARLEY RIDGE TRL
16-02-451-016

3874 BARLEY RIDGE TRL
16-02-451-015

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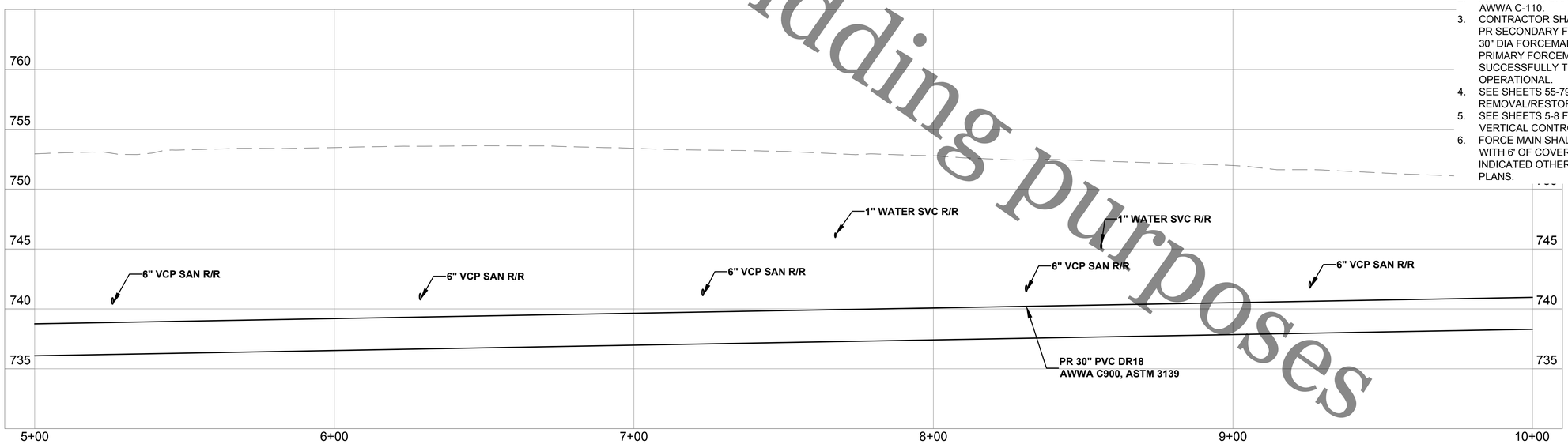


Rock River Water Reclamation District
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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**PLAN & PROFILE STA. 5+00.00 TO 10+00.00**

Sheet No.
25 OF 80

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Date
3/3/2020

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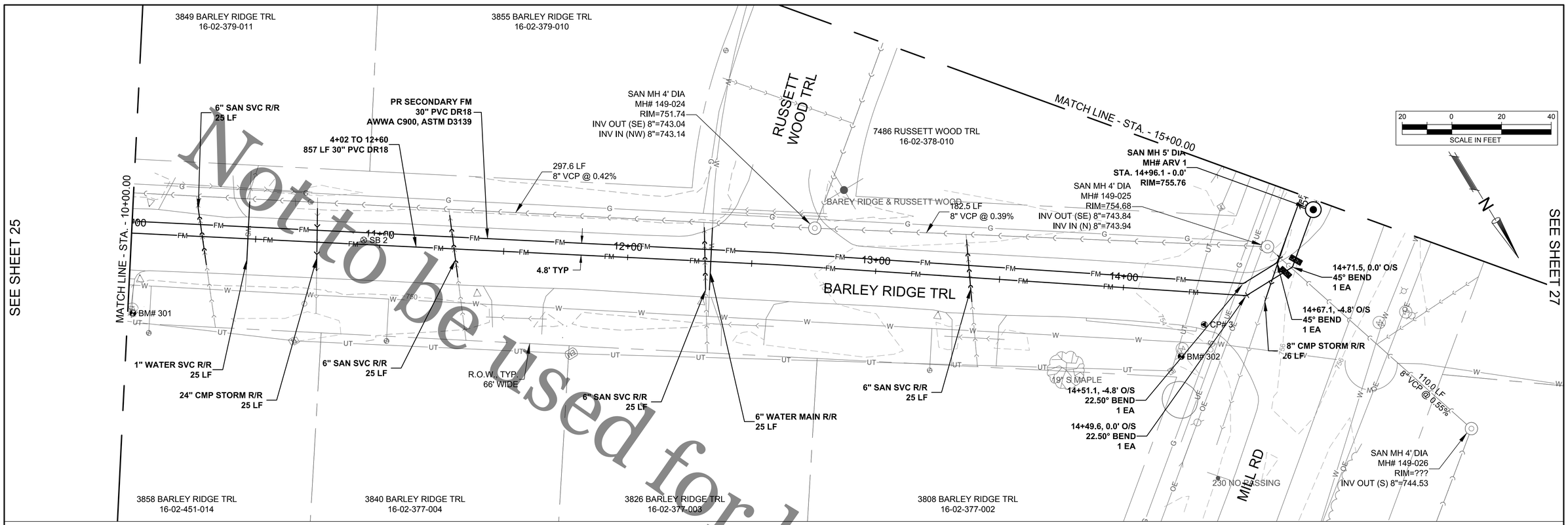


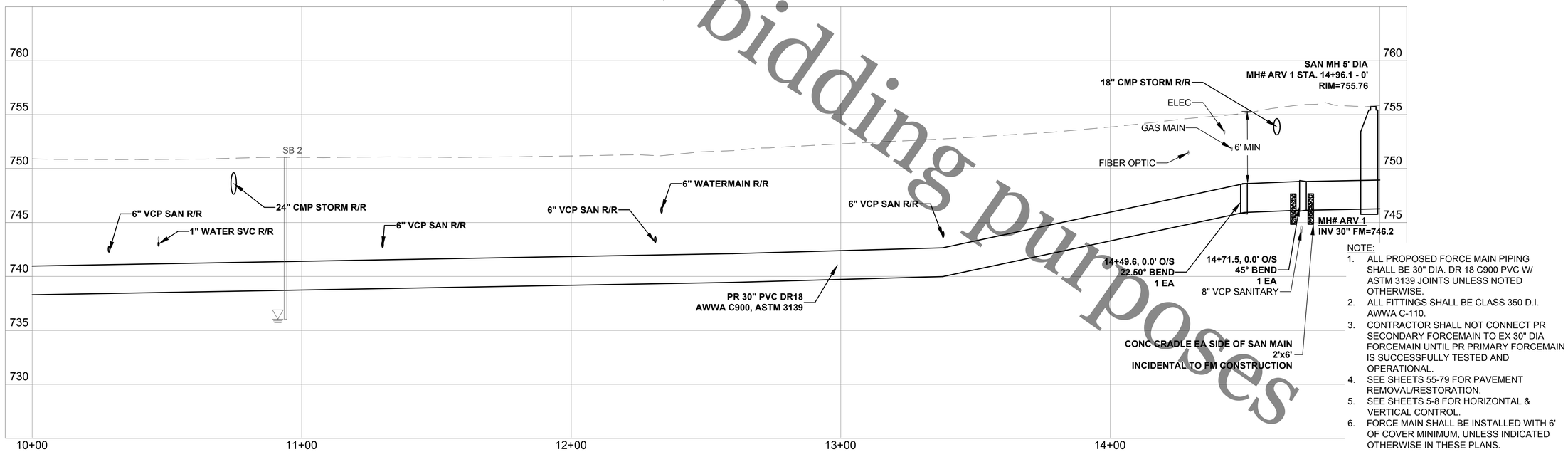


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ROCK RIVER WATER
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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**PLAN & PROFILE STA. 10+00.00 TO 15+00.00**

Sheet No. 26 OF 80

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SEE SHEET 26

MATCH LINE - STA. - 15+00.00

7486 RUSSETT WOOD TRL
16-02-378-010

7462 RUSSETT WOOD TRL
16-02-378-009

7444 RUSSETT WOOD TRL
16-02-378-008

7426 RUSSETT WOOD TRL
16-02-378-007

7408 RUSSETT WOOD TRL
16-02-378-006

**PR SECONDARY FM**
**30" PVC DR18**
**AWWA C900, ASTM D3139**

**PR 30" PVC DR18**
**AWWA C900, ASTM 3139**

24"

15+00 16+00 17+00 18+00 19+00 20+

SB 3

MILL RD

CP# 4

50 NO PASSING

50 CURVE

325 STOP

MILL & RAIL FENCE

BM# 303

RAIL FENCE RD

R.O.W., TYP.
100' WIDE

7339 GLORIA CT
16-02-328-018

3926 RAIL FENCE RD
16-02-328-021

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SEE SHEET 28

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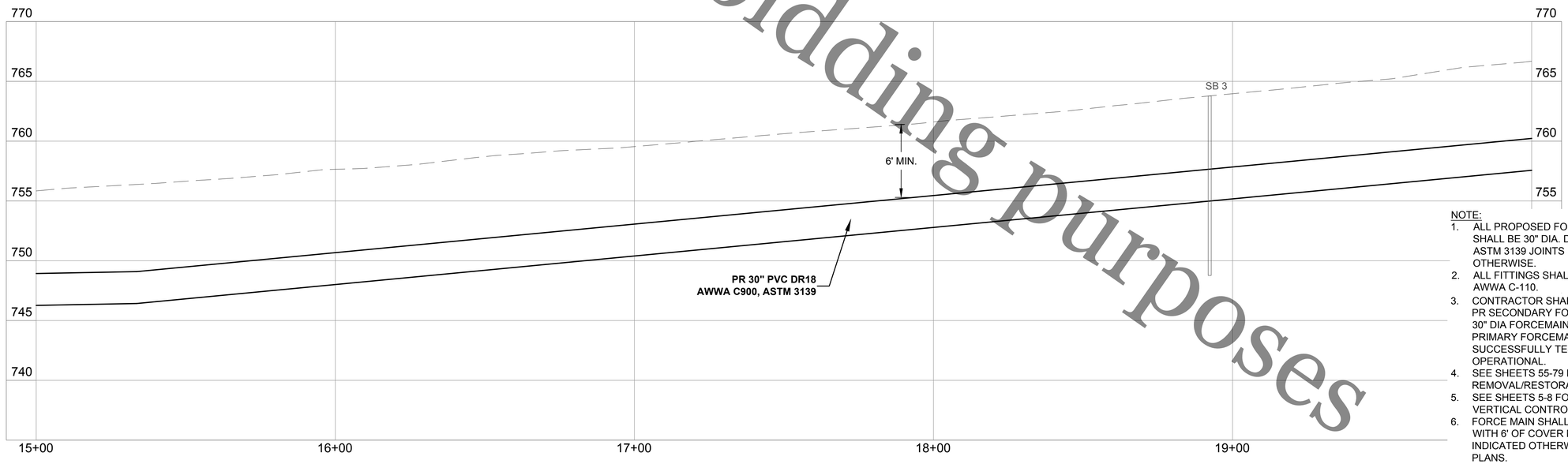
SCALE IN FEET

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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**PLAN & PROFILE STA. 15+00.00 TO 20+00.00**

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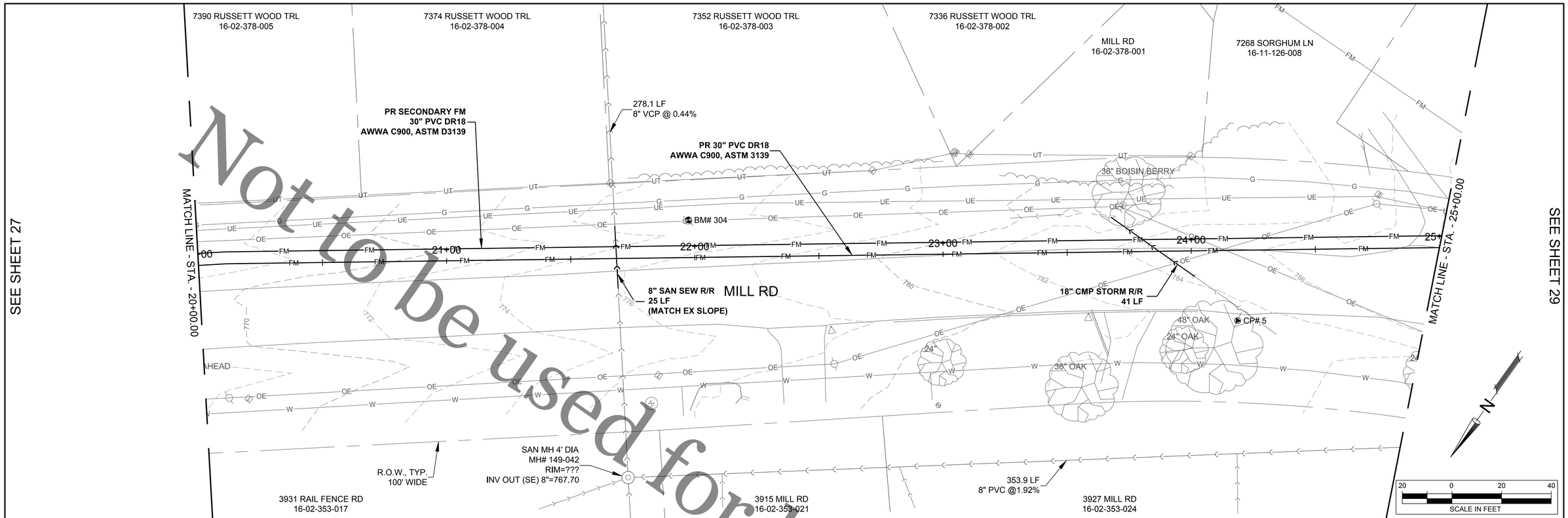


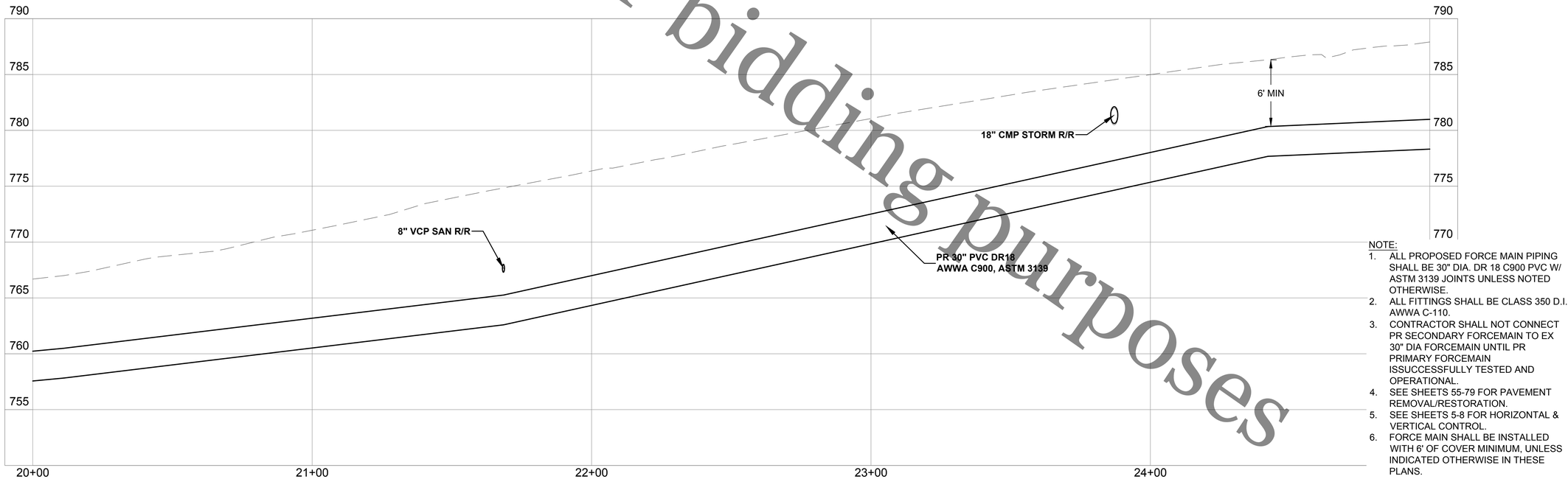


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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**PLAN & PROFILE STA. 20+00.00 TO 25+00.00**

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Sheet No. 28 OF 80

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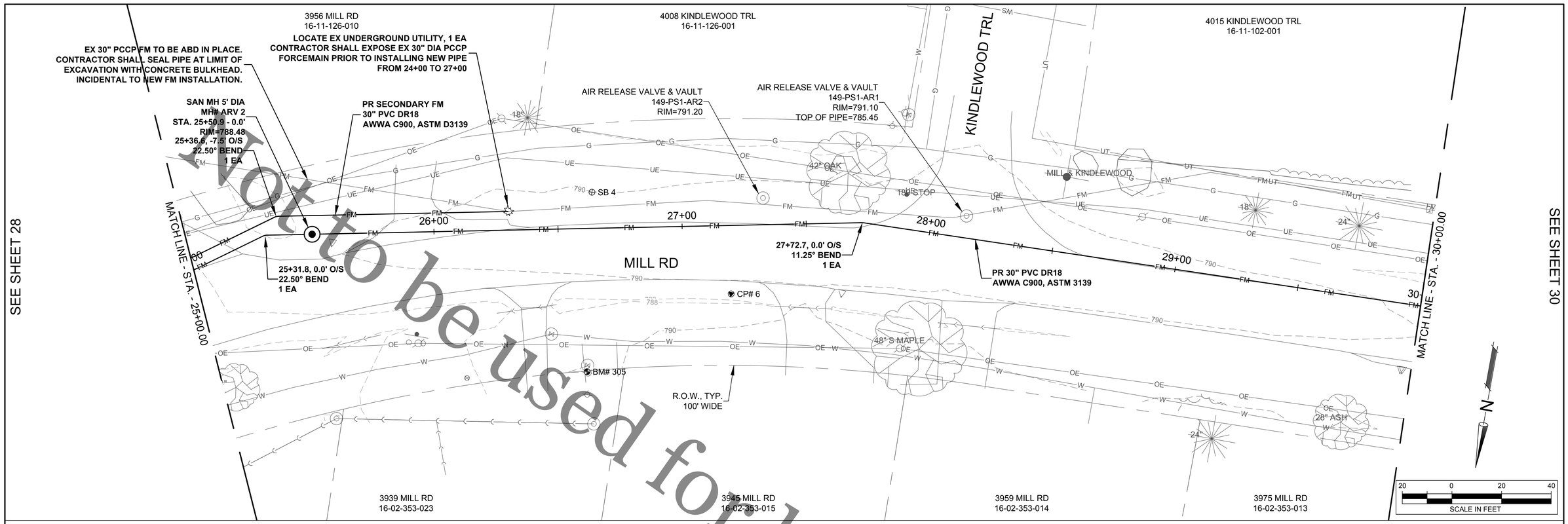


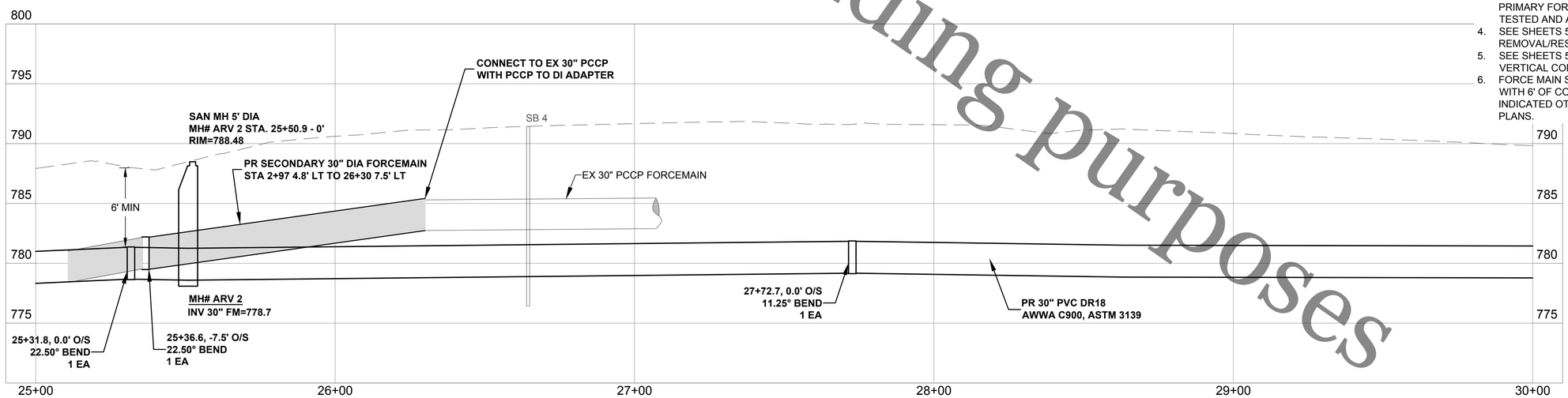


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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**PLAN & PROFILE STA. 25+00.00 TO 30+00.00**

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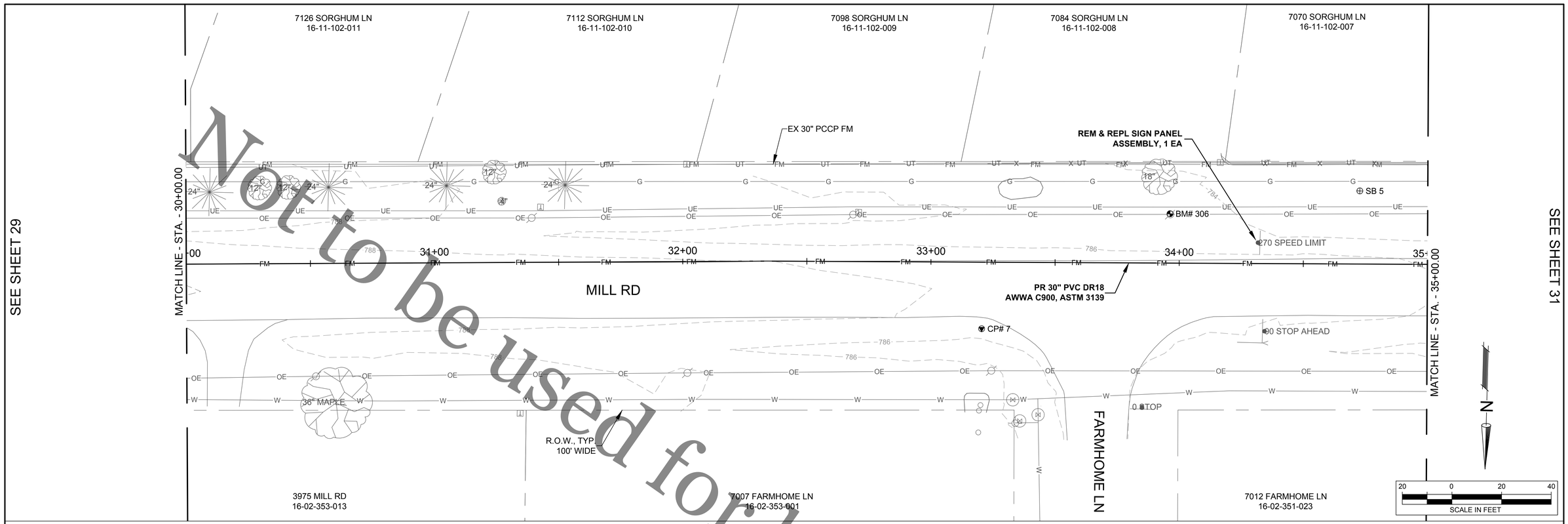


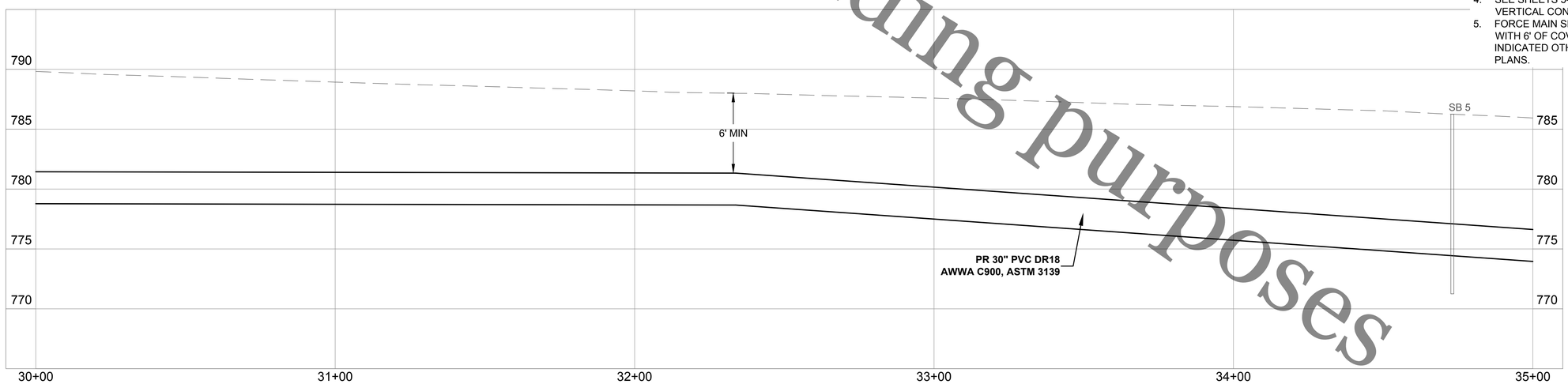


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3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

| No. | DATE | REVISION | INT. |
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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**PLAN & PROFILE STA. 30+00.00 TO 35+00.00**

Sheet No. 30 OF 80

FOR BID

Date 3/3/2020

file: I:\District Projects\Cherry Valley Parallel FM 1420\Engineering\Dwgs\Design.dwg

Not to be used for bidding purposes

SEE SHEET 30

SEE SHEET 32

MATCH LINE - STA. - 35+00.00

MATCH LINE - STA. - 41+00.00

MILL RD

PERRYVILLE RD

REM & REPL SIGN PANEL ASSEMBLY, 1 EA

EX. 30" FM T.O.P.=744.29 AT THIS LOC.

270 WEIGHT RESTRICTED

PR 30" PVC DR18 AWWA C900, ASTM 3139

37+23.9, 0.0' O/S 45° BEND 1 EA

EX 30" PCCP FM

TEMP CONST FENCE 65 LF

CP# 8

20" MAPLE

EX. 30" FM T.O.P.=771.94 AT THIS LOC.

BM# 307

STOP

12" MAPLE

18" MAPLE

12" MAPLE

15"

R.O.W., TYP. 100' WIDE

12" WATER MAIN R/R 25 LF

12" RCP STORM R/R 25 LF

12" WATER MAIN R/R 25 LF

TEMP CONST EASEMENT

SAN SEWER EASEMENT 20' WIDE

38+75.4, 0.0' O/S 45° BEND 1 EA

FIRE PIT

SB 6

SB 7

54" I.D. STEEL CASING 39+09 TO 40+64 155.0 LF

TEMP CONST FENCE 50 LF

LOCATE EX UNDERGROUND UTILITY, 1 LS CONTRACTOR SHALL EXPOSE EX WATER MAIN TO CONFIRM ELEV PRIOR TO COMPLETING BORE & JACK SETUP FOR THE PERRYVILLE CROSSING

7012 WHEATLAND TER
16-02-351-021

7020 WHEATLAND TER
16-02-351-024

TEMP CONST FENCE 237 LF

35+00 36+00 37+00 38+00 39+00 40+00 41+00

20 0 20 40
SCALE IN FEET

N

NOTE:
1. ALL PROPOSED FORCE MAIN PIPING SHALL BE 30" DIA. DR 18 C900 PVC W/ ASTM 3139 JOINTS UNLESS NOTED OTHERWISE.
2. ALL FITTINGS SHALL BE CLASS 350 D.I. AWWA C-110.
3. SEE SHEETS 55-79 FOR PAVEMENT REMOVAL/RESTORATION.
4. SEE SHEETS 5-8 FOR HORIZONTAL & VERTICAL CONTROL.
5. FORCE MAIN SHALL BE INSTALLED WITH 6' OF COVER MINIMUM, UNLESS INDICATED OTHERWISE IN THESE PLANS.

790 785 780 775 770 765 760

12" RCP STORM R/R INV. ±778.7

FIBER OPTIC

FIBER OPTIC

FIBER OPTIC

12" WATERMAIN R/R

FIBER OPTIC

12" WATERMAIN R/R

EL. UNK.

SB 6

SB 7

12" WATERMAIN

37+23.9, 0.0' O/S 45° BEND 1 EA

PR 30" PVC DR18 AWWA C900, ASTM 3139

39+09 T.O.P.=770.00

40+64 T.O.P.=770.00

38+75.4, 0.0' O/S 45° BEND 1 EA

54" I.D. STEEL CASING 155.0 LF

Rock River Water Reclamation District

**ROCK RIVER WATER RECLAMATION DISTRICT**
**3501 KISHWAUKEE STREET**
**ROCKFORD, ILLINOIS 61109**
**(815) 387-7660**

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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**PLAN & PROFILE STA. 35+00.00 TO 41+00.00**

Sheet No. 31 OF 80

FOR BID

Date 3/3/2020

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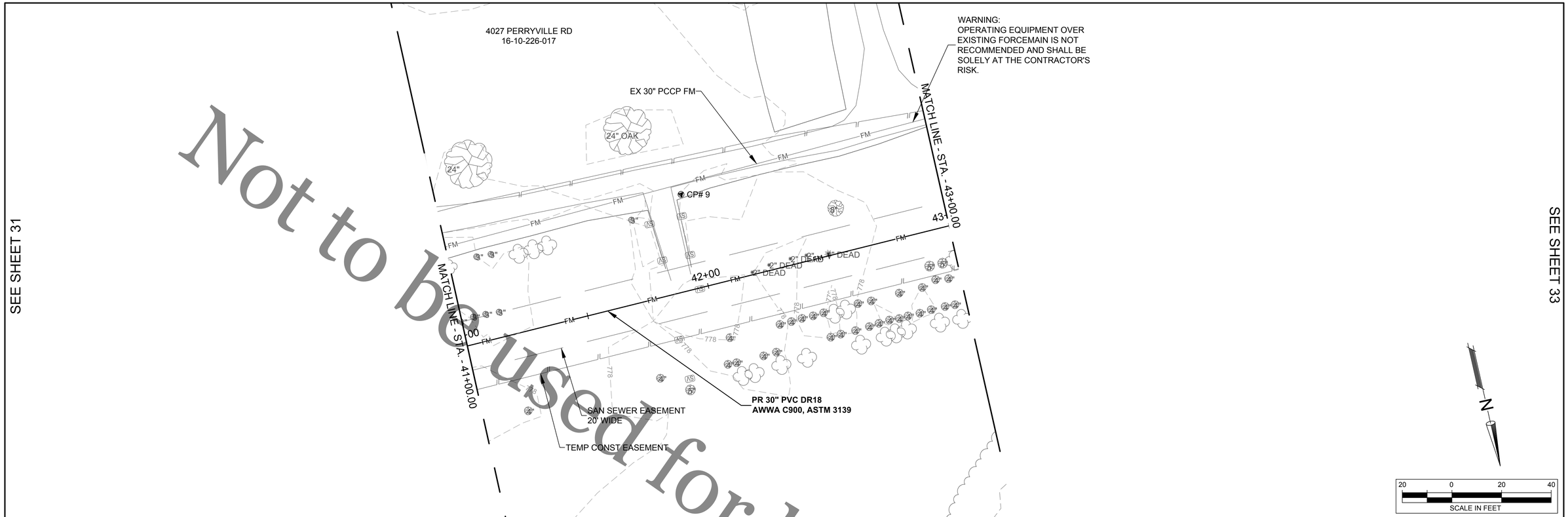


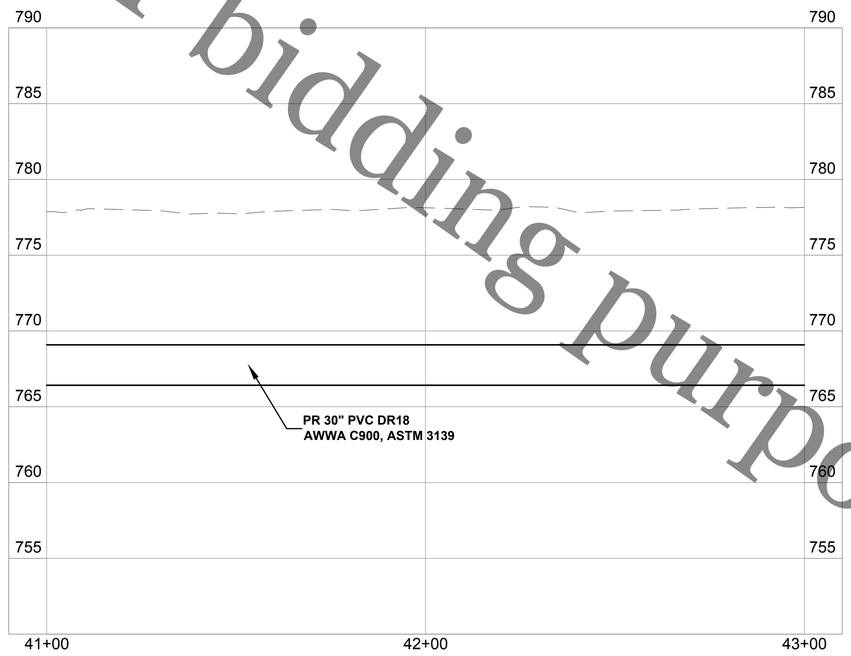


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2. ALL FITTINGS SHALL BE CLASS 350 D.I. AWWA C-110.
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4. FORCE MAIN SHALL BE INSTALLED WITH 6' OF COVER MINIMUM, UNLESS INDICATED OTHERWISE IN THESE PLANS.

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ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**PLAN & PROFILE STA. 41+00.00 TO 43+00.00**

FOR BID

Sheet No. 32 OF 80

Date 3/3/2020

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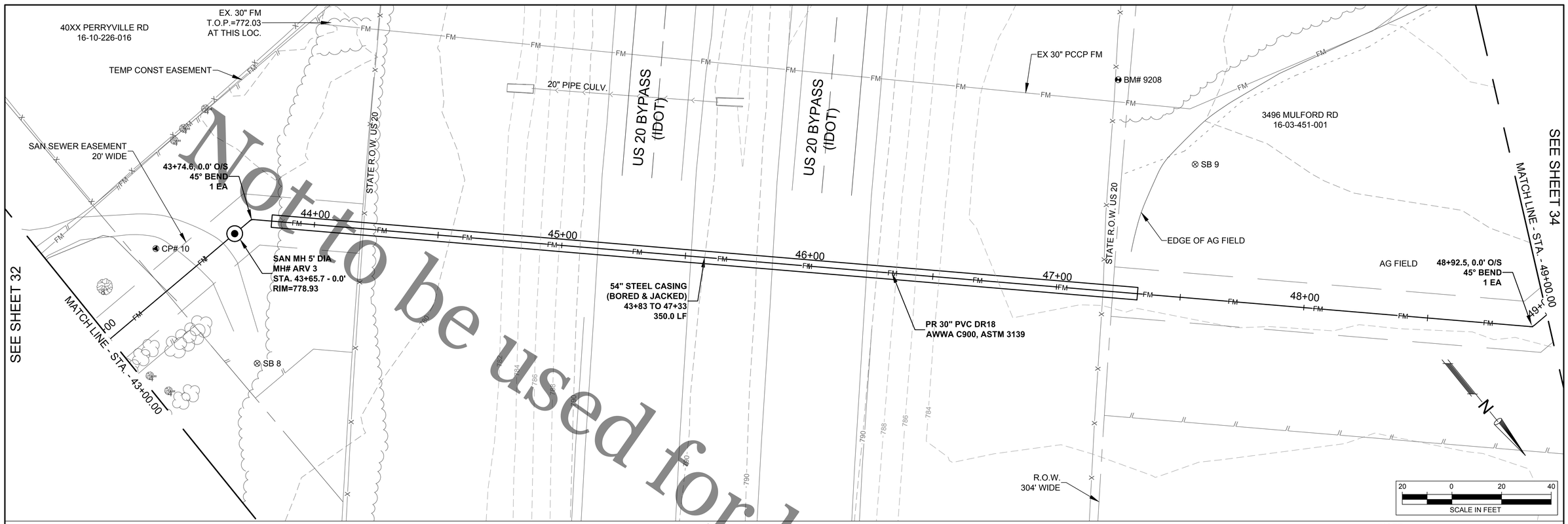


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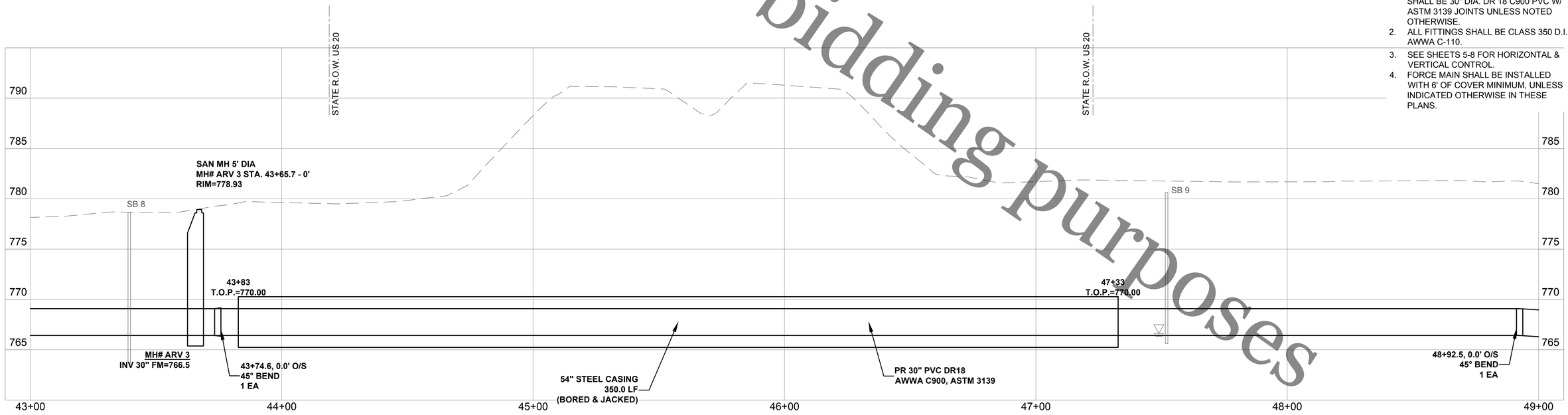


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ROCK RIVER WATER
RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**PLAN & PROFILE STA. 43+00.00 TO 49+00.00**

Sheet No. 33 OF 80

FOR BID

Date 3/3/2020

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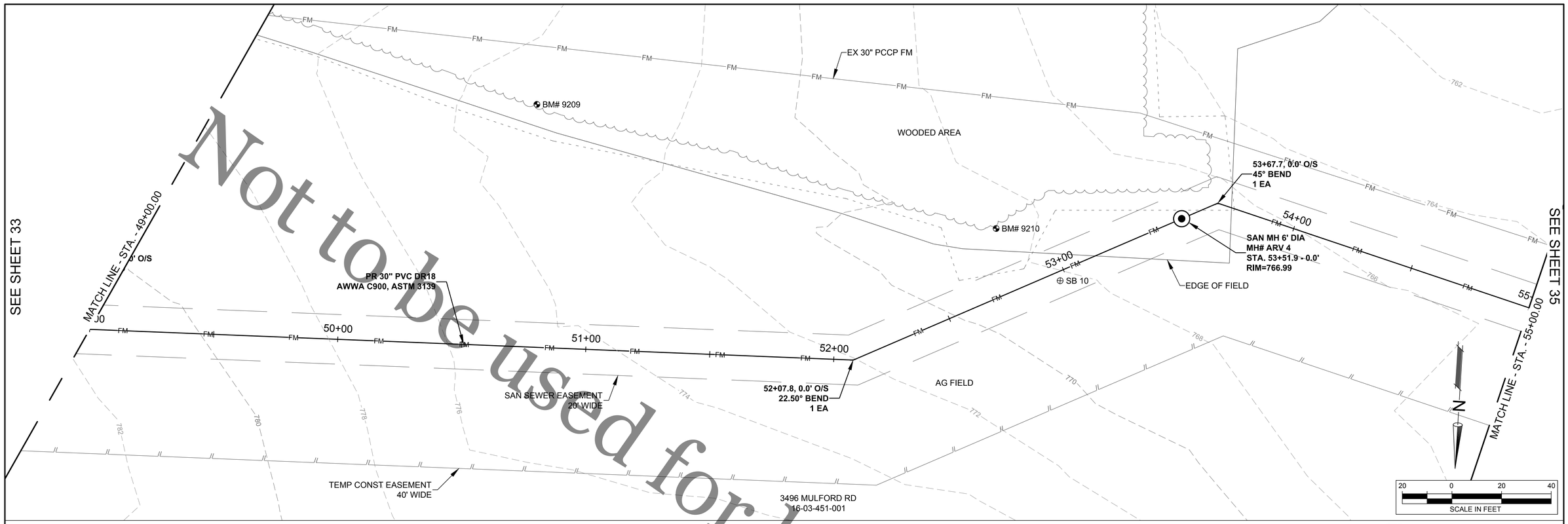


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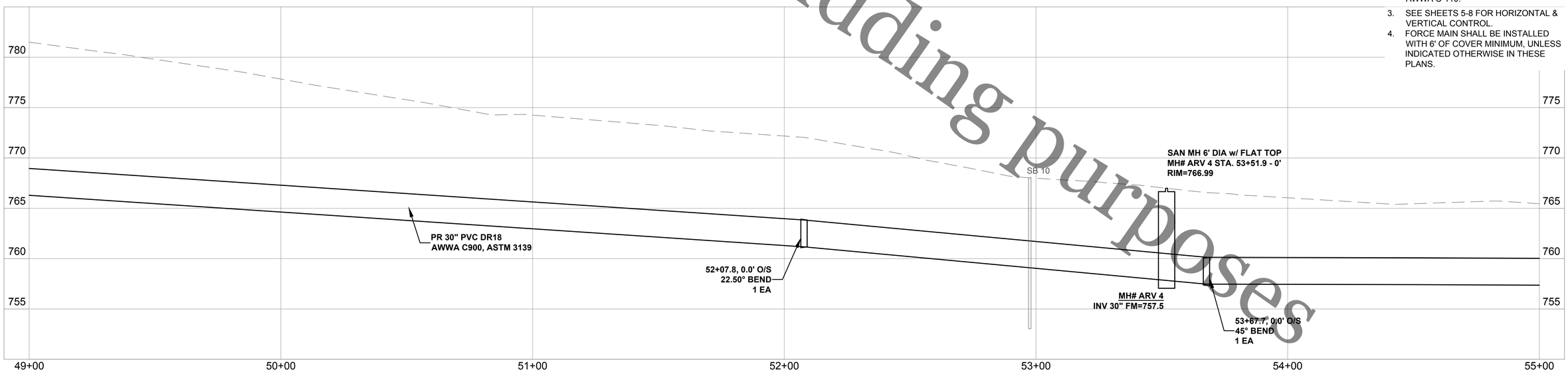


ROCK RIVER WATER
RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
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(815) 387-7660

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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**PLAN & PROFILE STA. 49+00.00 TO 55+00.00**

Sheet No. 34 OF 80

FOR BID

Date 3/3/2020

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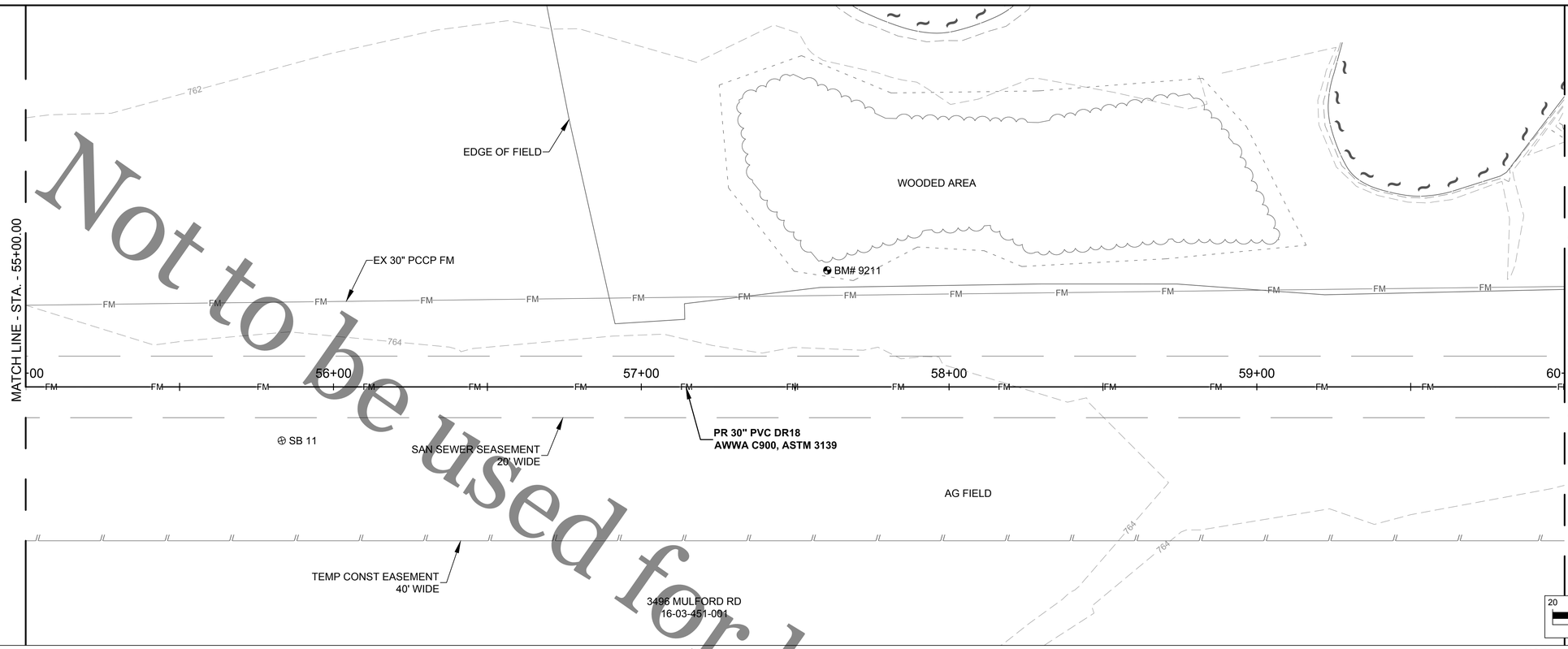
SEE SHEET 34

SEE SHEET 36

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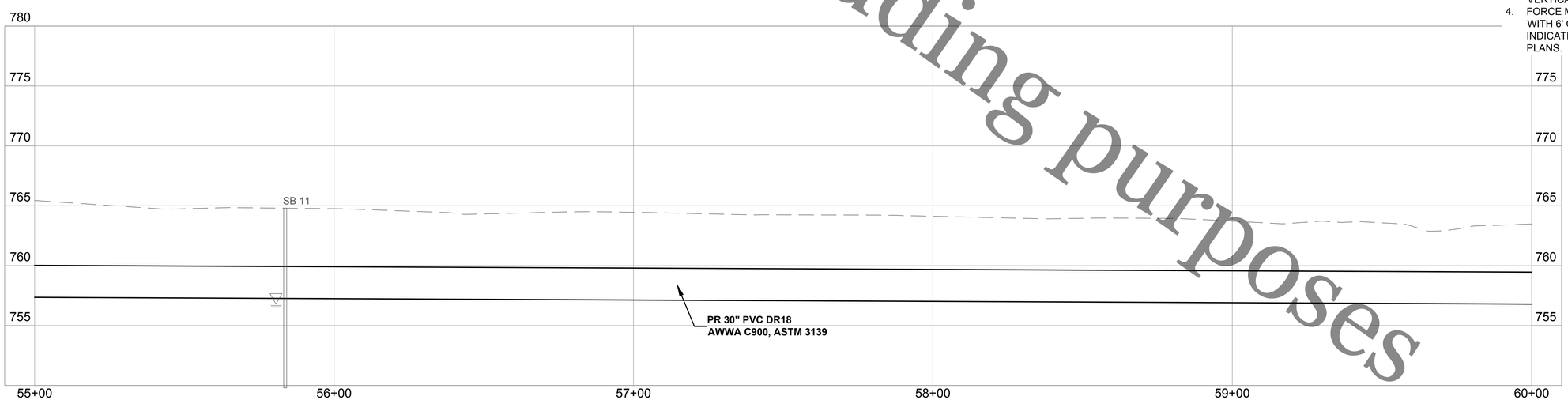


ROCK RIVER WATER
RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**PLAN & PROFILE STA. 55+00.00 TO 60+00.00**

Sheet No. 35 OF 80

FOR BID

Date 3/3/2020

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SEE SHEET 35

SEE SHEET 37

MATCH LINE - STA. - 60+00.00

MATCH LINE - STA. - 65+00.00

WOODED AREA

EX 30" PCCP FM

BM# 9212

EDGE OF FIELD

SB 12

SAN SEWER EASEMENT
20' WIDE

**PR 30" PVC DR18**
**AWWA C900, ASTM 3139**

AG FIELD

TEMP CONST EASEMENT
40' WIDE

3496 MULFORD RD
16-03-451-001

60+00 61+00 62+00 63+00 64+00 65+00

764 766

FM

N

20 0 20 40
SCALE IN FEET

NOTE:
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3. SEE SHEETS 5-8 FOR HORIZONTAL & VERTICAL CONTROL.
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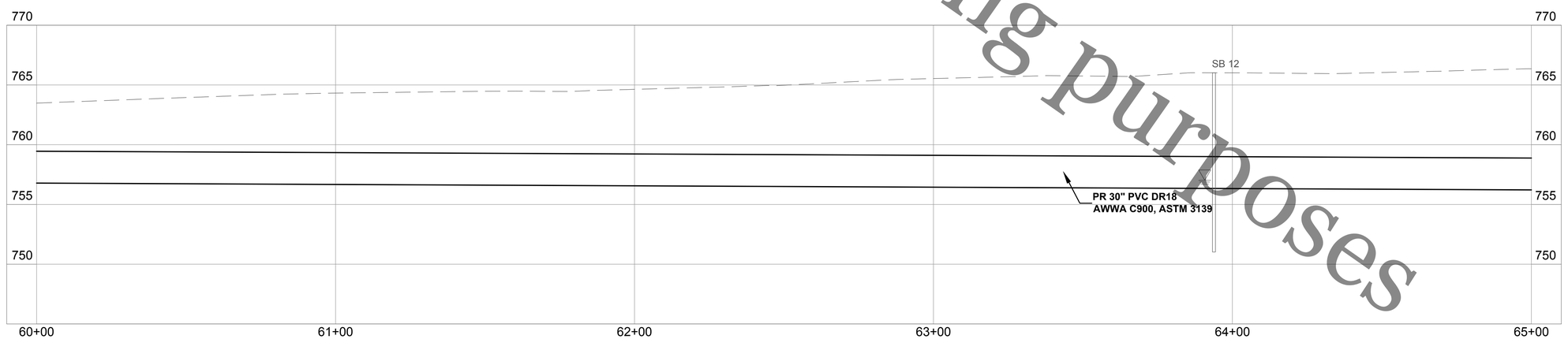


Rock River Water Reclamation District
ROCK RIVER WATER
RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**PLAN & PROFILE STA. 60+00.00 TO 65+00.00**

Sheet No.
36 OF 80

FOR BID

Date
3/3/2020

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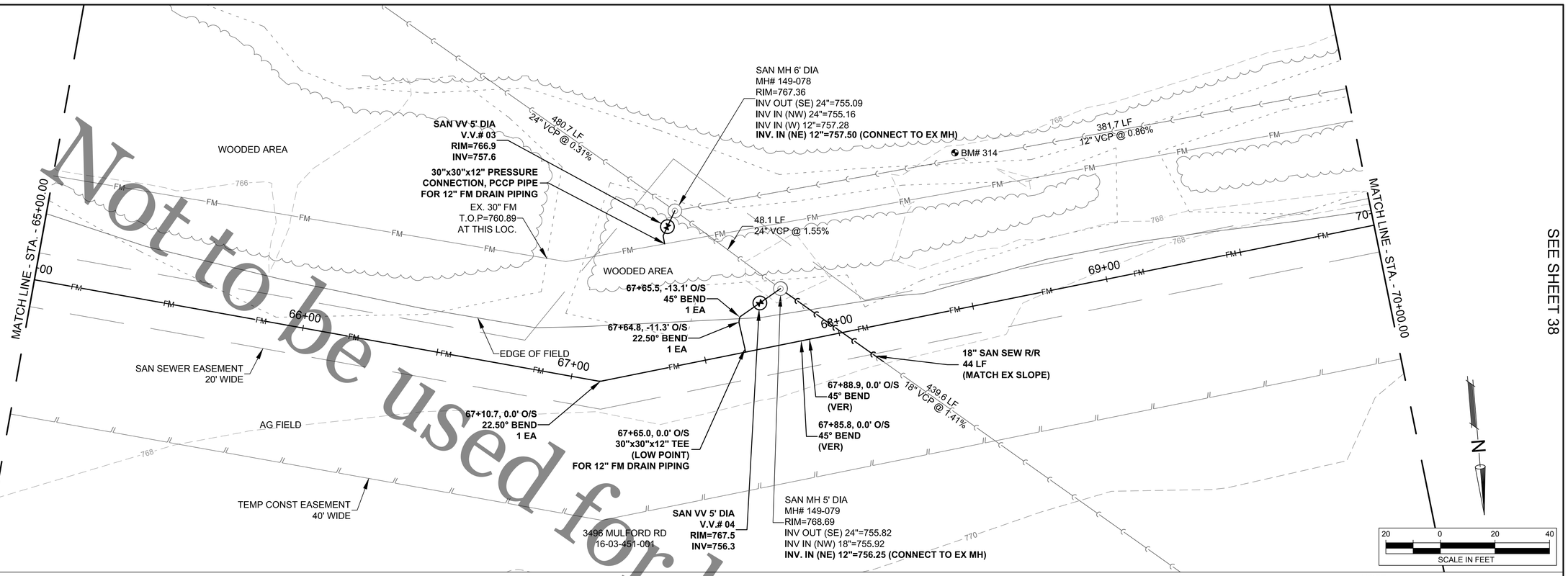
SEE SHEET 36

SEE SHEET 38




NOTE:
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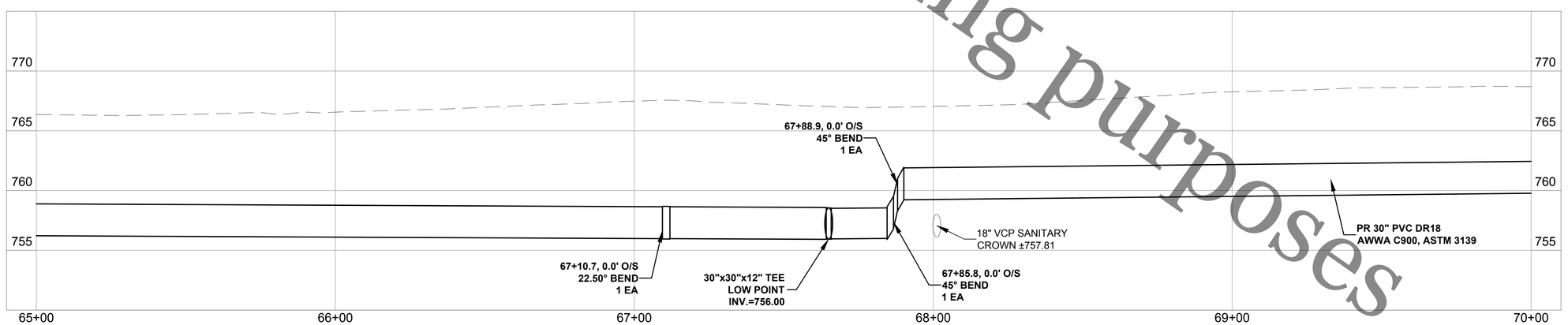


ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

| No. | DATE | REVISION | INT. |
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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**PLAN & PROFILE STA. 65+00.00 TO 70+00.00**

Sheet No. 37 OF 80

FOR BID

Date 3/3/2020

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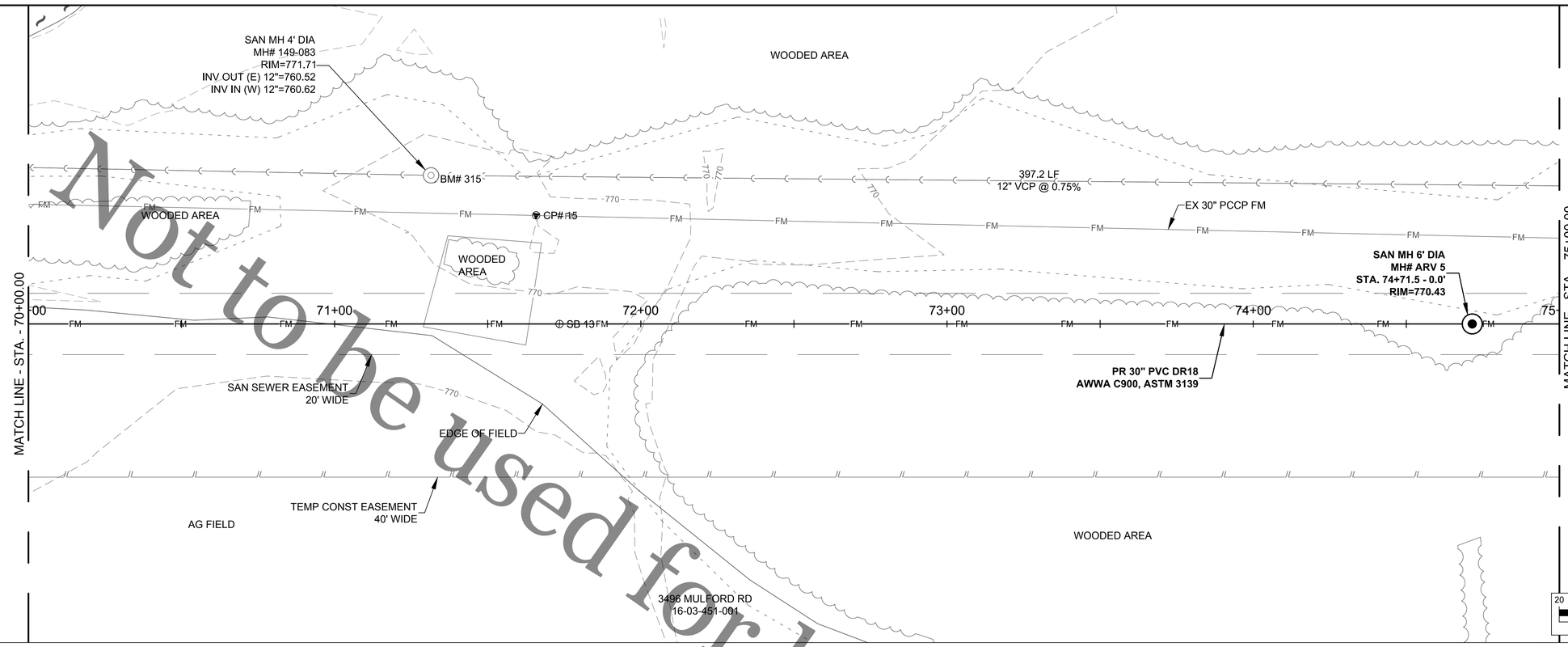
SEE SHEET 37

SEE SHEET 39

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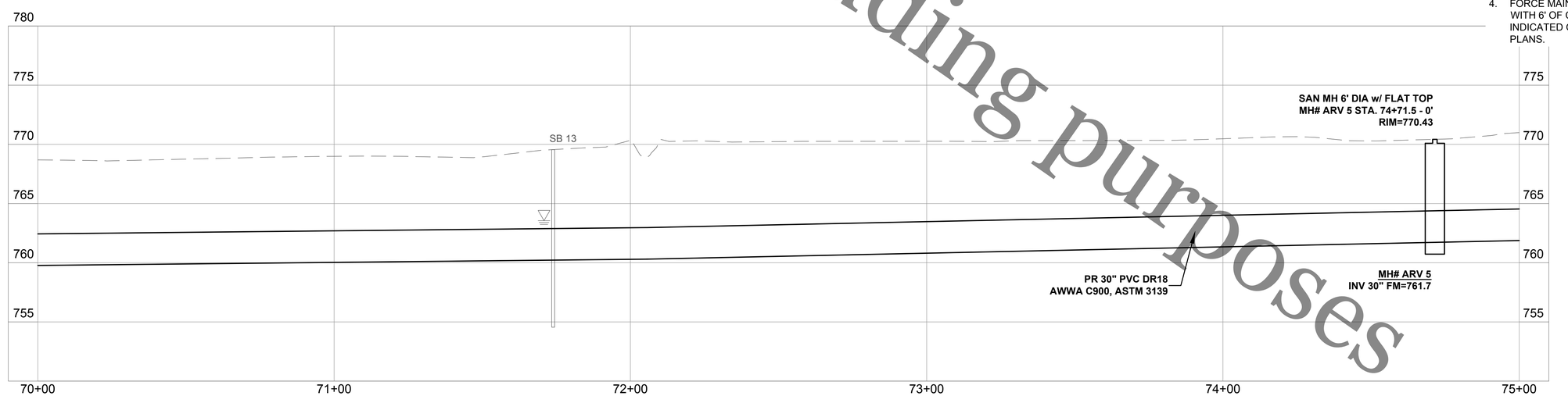


ROCK RIVER WATER
RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**PLAN & PROFILE STA. 70+00.00 TO 75+00.00**

Sheet No.
38 OF 80

FOR BID

Date
3/3/2020

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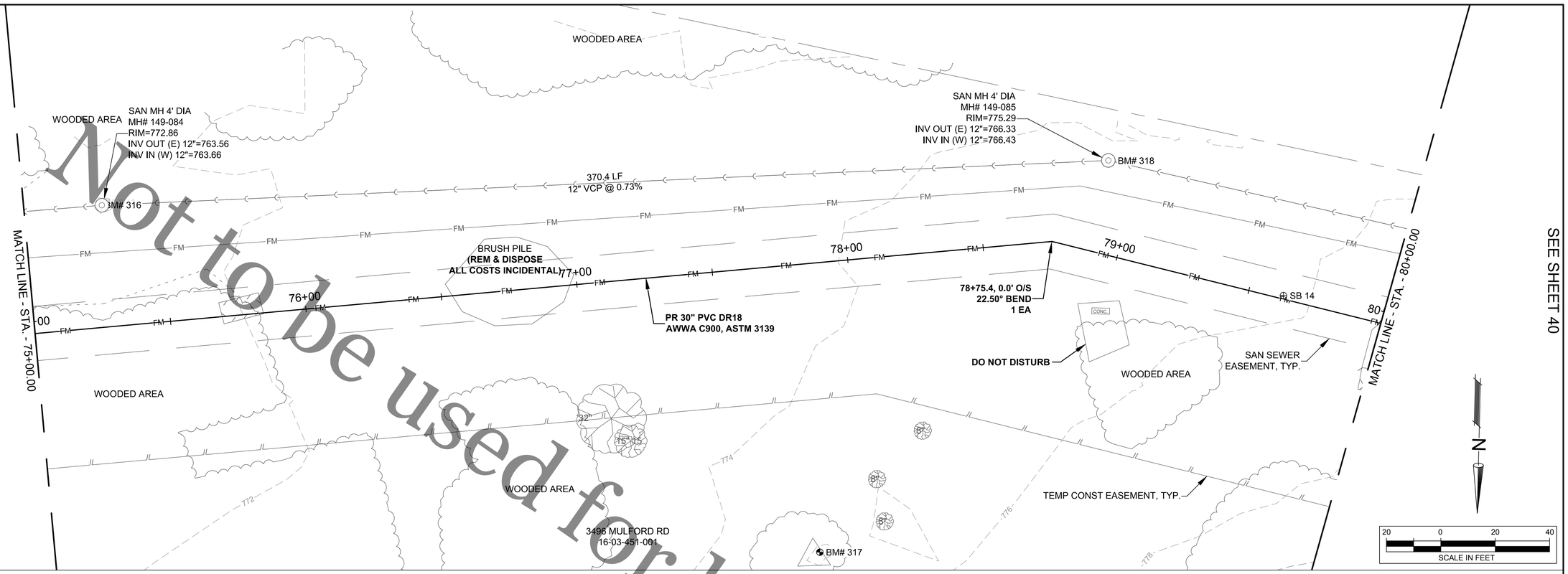
SEE SHEET 38

SEE SHEET 40

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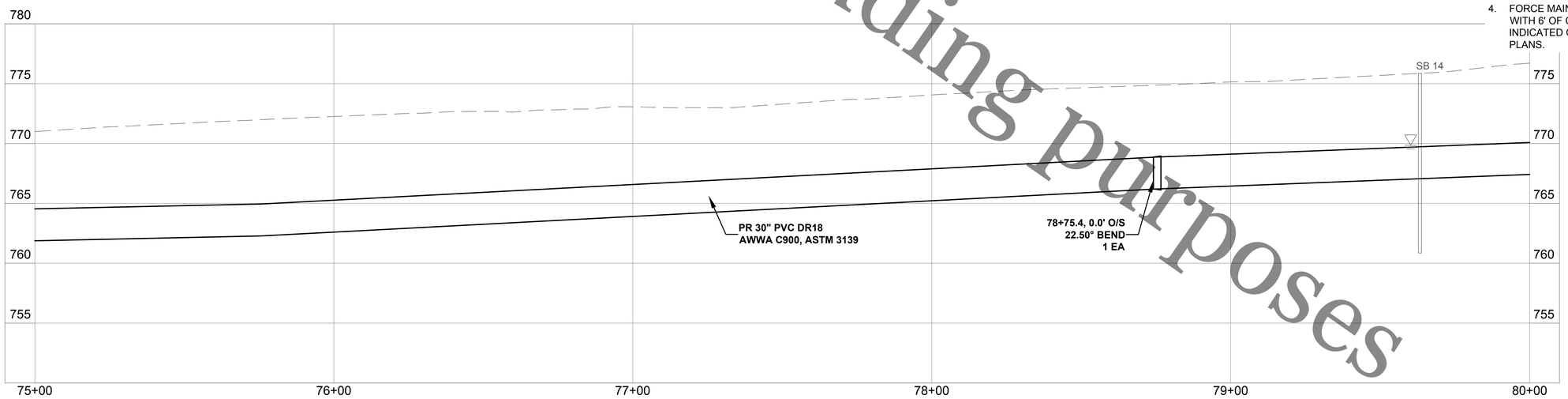


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Rock River Water Reclamation District
ROCK RIVER WATER
RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**PLAN & PROFILE STA. 75+00.00 TO 80+00.00**

Sheet No.
39 OF 80

FOR BID

Date
3/3/2020

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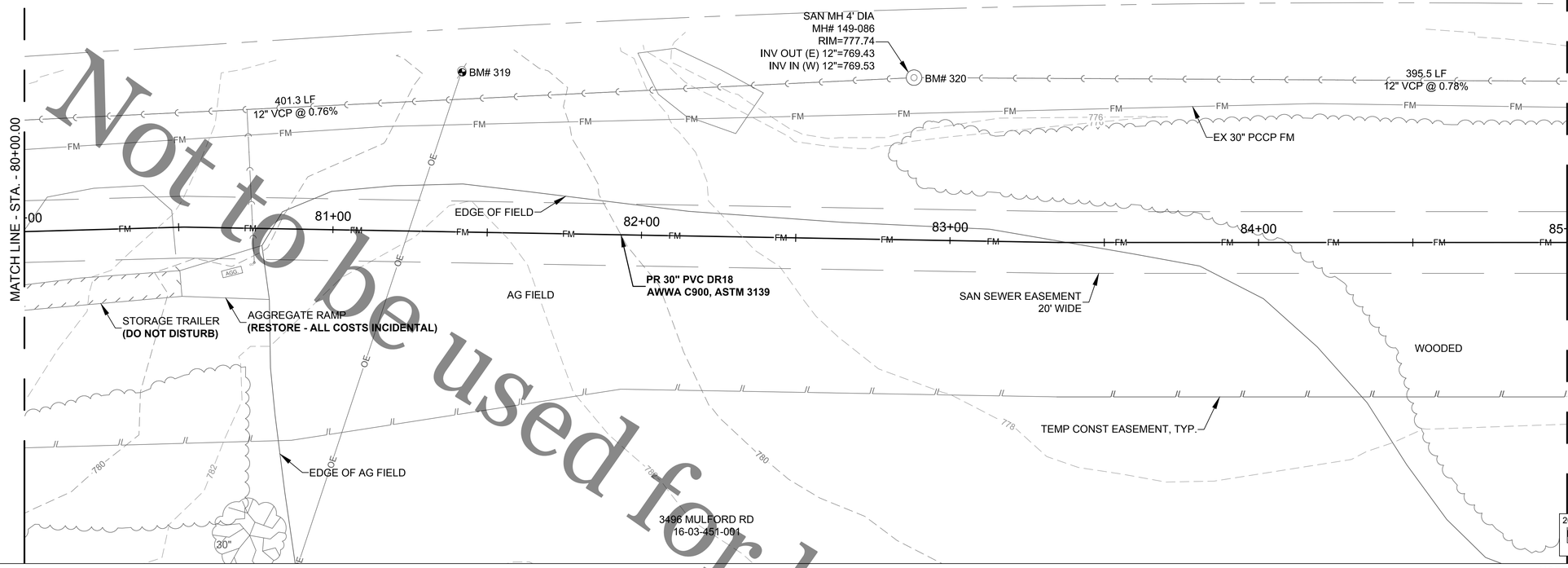
SEE SHEET 39

SEE SHEET 41

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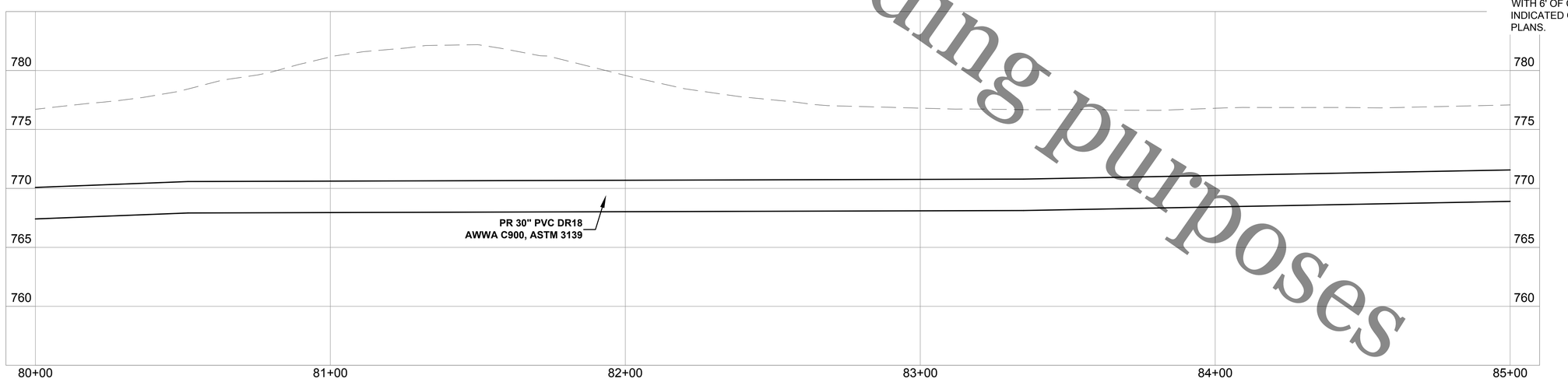


ROCK RIVER WATER
RECLAMATION DISTRICT
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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**PLAN & PROFILE STA. 80+00.00 TO 85+00.00**

Sheet No. 40 OF 80

FOR BID

Date 3/3/2020

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SEE SHEET 40

SEE SHEET 42

Not to be used for bidding purposes

SAN MH 4' DIA
MH# 149-087
RIM=780.07
INV OUT (E) 12"=772.57
INV IN (W) 12"=772.67

BM# 321

WOODED AREA

404.0 LF
12" VCP @ 0.87%

EX 30" PCCP FM

MATCH LINE - STA. - 85+00.00

MATCH LINE - STA. - 90+00.00

SB 15

85+00 86+00 87+00 88+00 89+00 90+00

FM

PR 30" PVC DR18
AWWA C900, ASTM 3139

SAN SEWER EASEMENT
20' WIDE

STEEL FENCE POSTS, TYP.
**CONTRACTOR SHALL STOCKPILE AT LOCATION ON SITE AS DIRECTED BY OWNER, INCIDENTAL TO FORCEMAIN CONSTRUCTION.**

WOODED AREA

WOODED AREA

TEMP CONST EASEMENT
40' WIDE

778

780

3496 MULFORD RD
16-03-451-001

N

20 0 20 40
SCALE IN FEET

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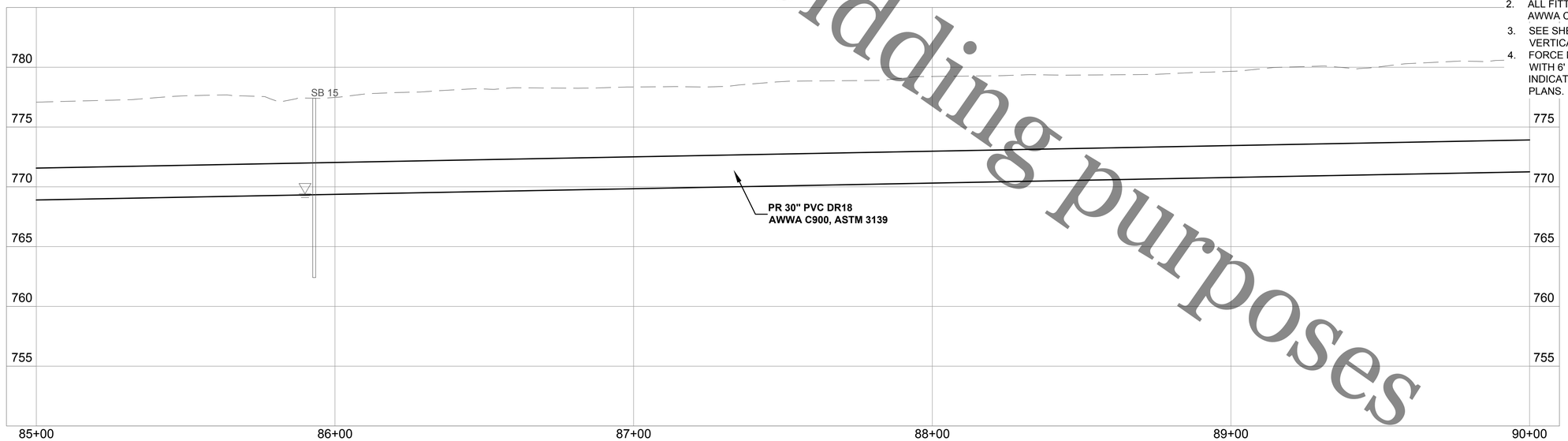


Rock River Water Reclamation District

ROCK RIVER WATER
RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**PLAN & PROFILE STA. 85+00.00 TO 90+00.00**

Sheet No.
41 OF 80

FOR BID

Date
3/3/2020

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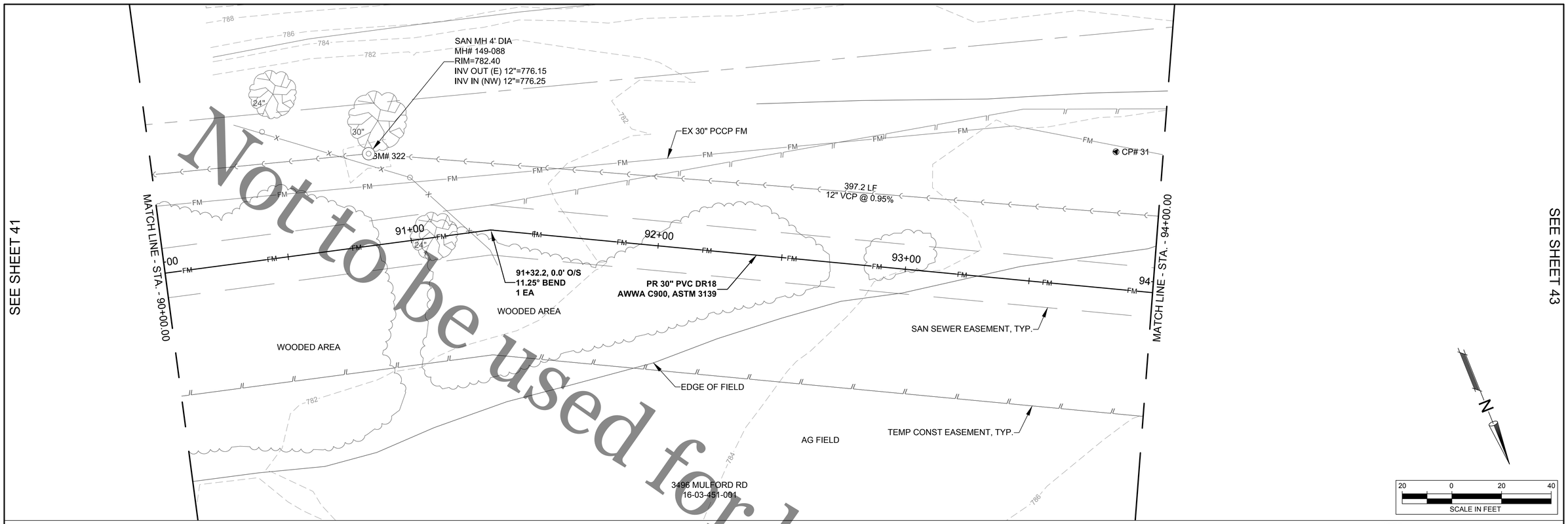


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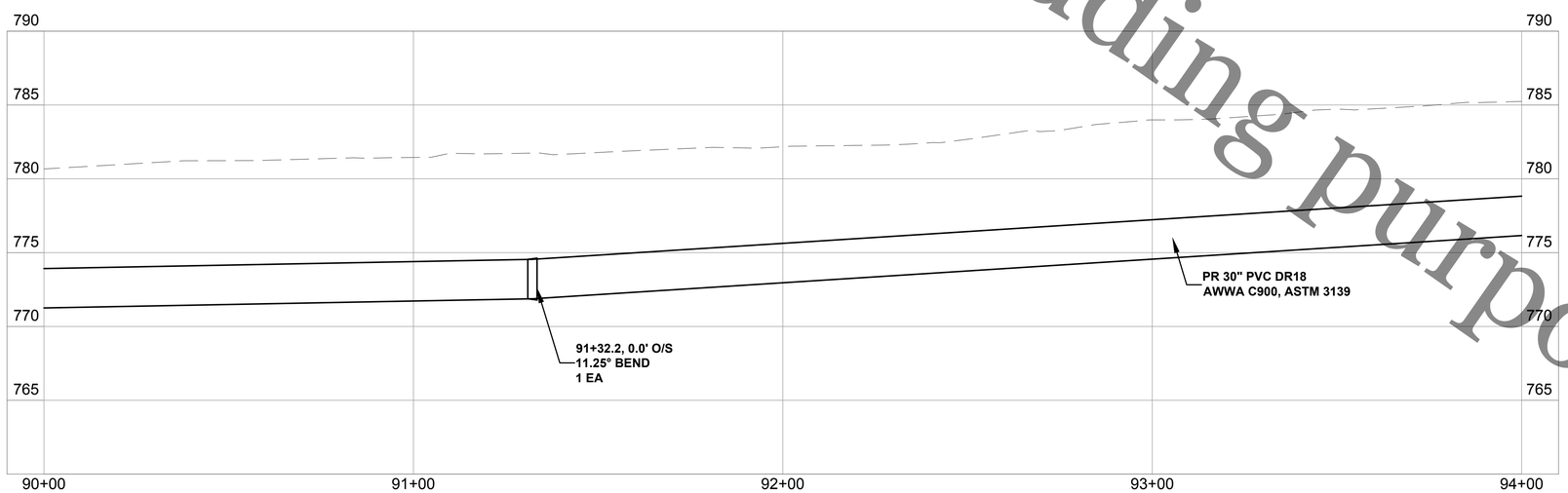


Not to be used for bidding purposes

Rock River Water Reclamation District
ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

| No. | DATE | REVISION | INT. |
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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**PLAN & PROFILE STA. 90+00.00 TO 94+00.00**

Sheet No. 42 OF 80

FOR BID

Date 3/3/2020

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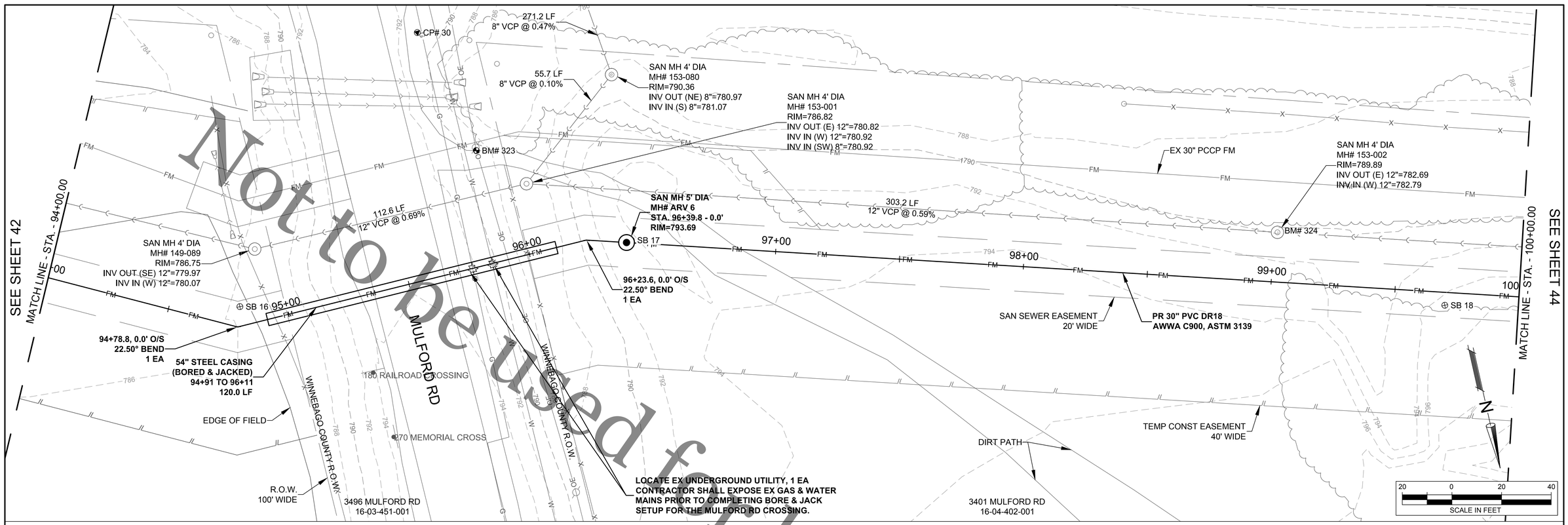


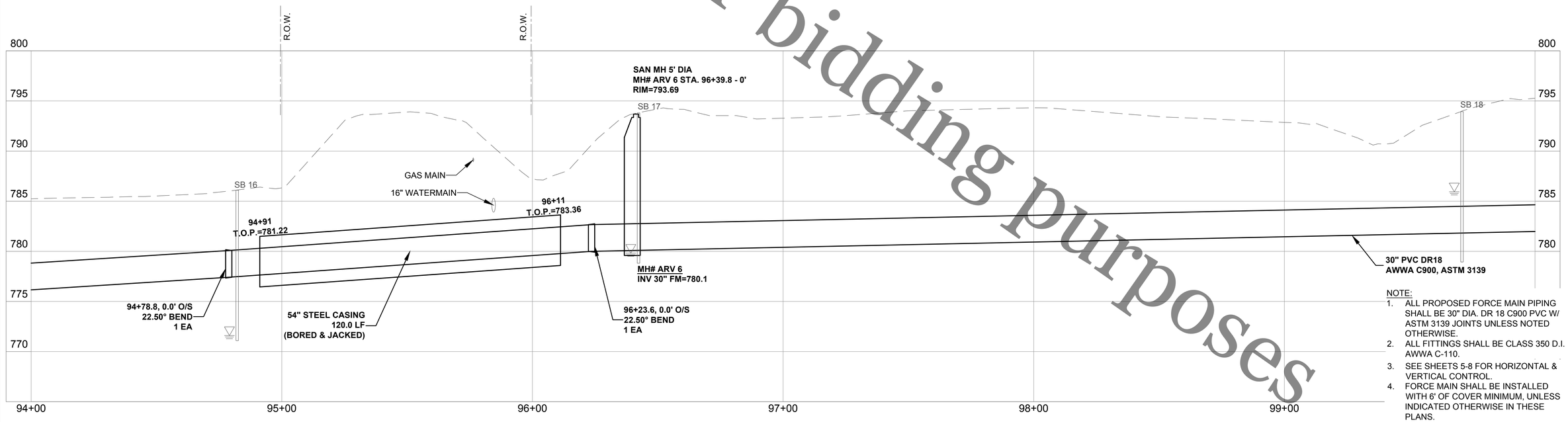


NOTE:
1. ALL PROPOSED FORCE MAIN PIPING SHALL BE 30" DIA. DR 18 C900 PVC W/ ASTM 3139 JOINTS UNLESS NOTED OTHERWISE.
2. ALL FITTINGS SHALL BE CLASS 350 D.I. AWWA C-110.
3. SEE SHEETS 5-8 FOR HORIZONTAL & VERTICAL CONTROL.
4. FORCE MAIN SHALL BE INSTALLED WITH 6' OF COVER MINIMUM, UNLESS INDICATED OTHERWISE IN THESE PLANS.

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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**PLAN & PROFILE STA. 94+00.00 TO 100+00.00**

Sheet No. 43 OF 80

FOR BID

Date 3/3/2020

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SEE SHEET 43

SEE SHEET 45

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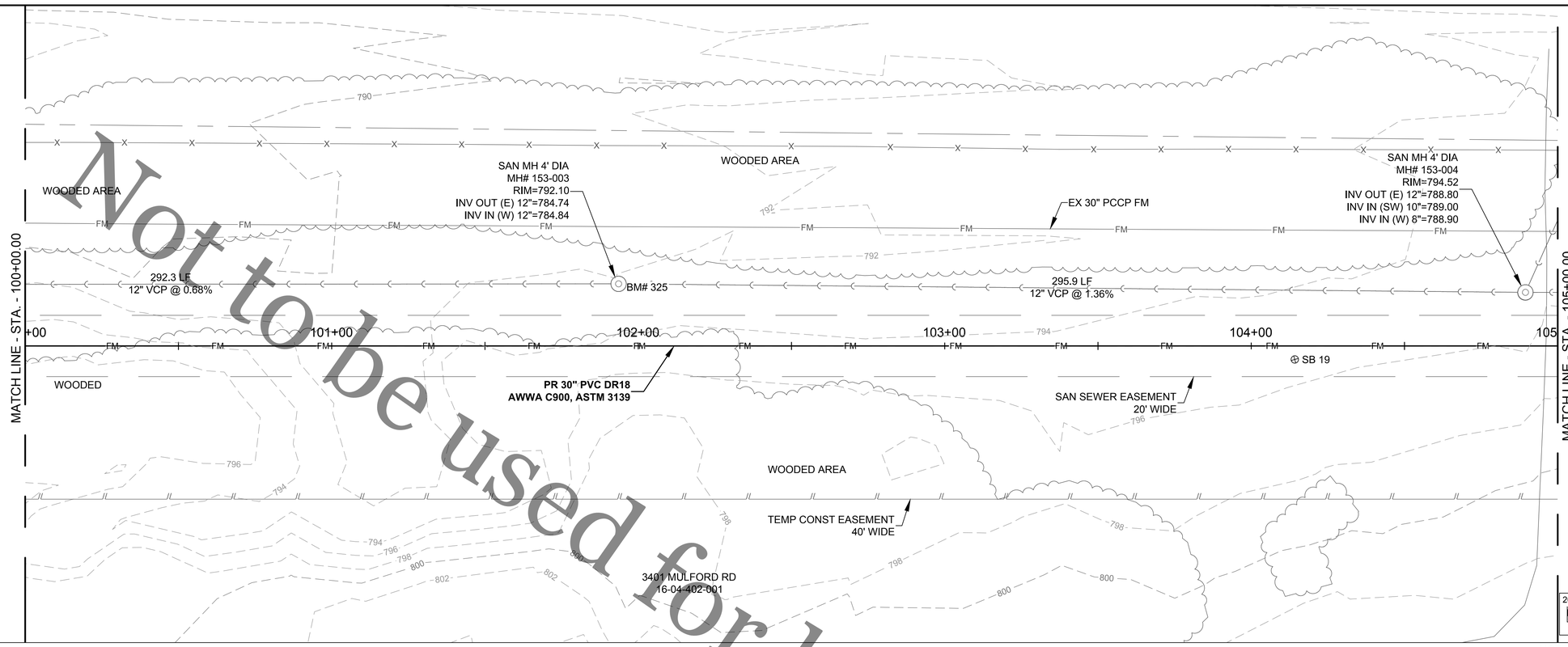


NOTE:
1. ALL PROPOSED FORCE MAIN PIPING SHALL BE 30" DIA. DR 18 C900 PVC W/ ASTM 3139 JOINTS UNLESS NOTED OTHERWISE.
2. ALL FITTINGS SHALL BE CLASS 350 D.I. AWWA C-110.
3. SEE SHEETS 5-8 FOR HORIZONTAL & VERTICAL CONTROL.
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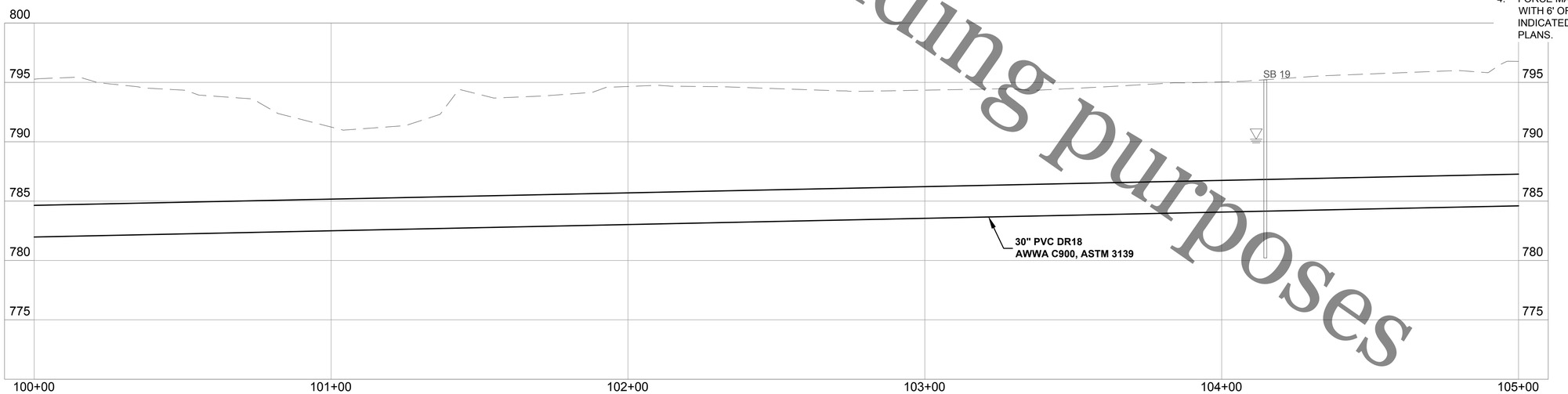


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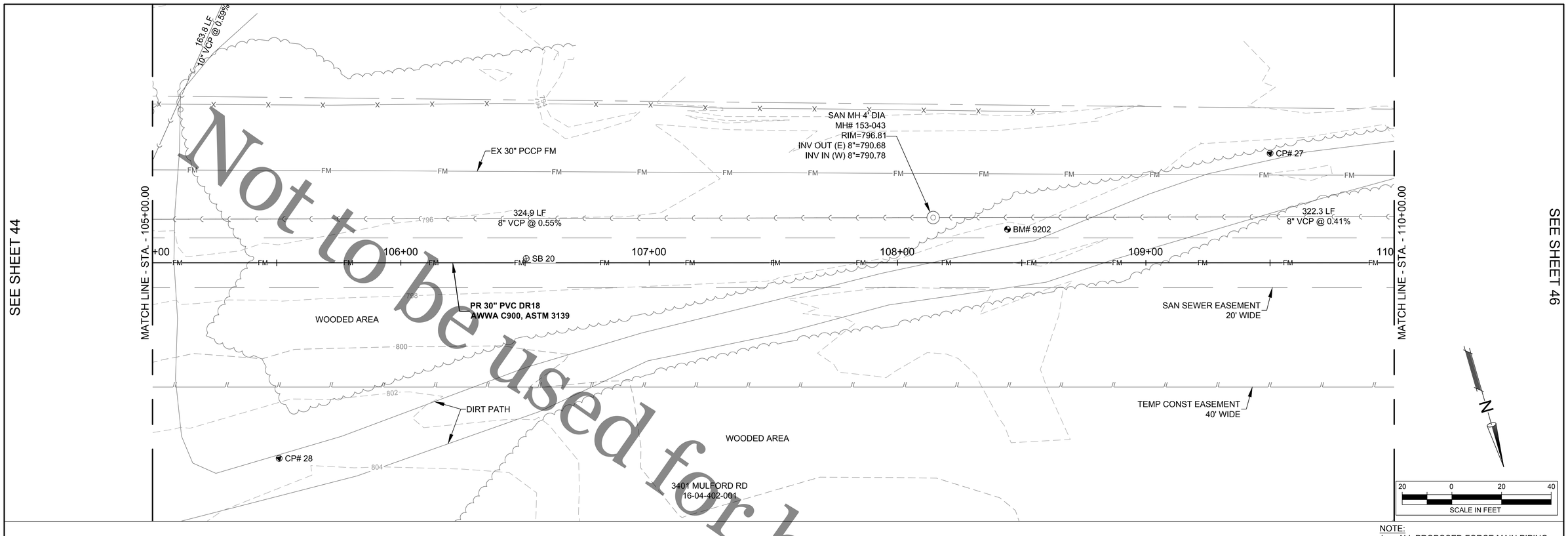
**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**PLAN & PROFILE STA. 100+00.00 TO 105+00.00**

Sheet No.
44 OF 80

FOR BID

Date
3/3/2020




NOTE:
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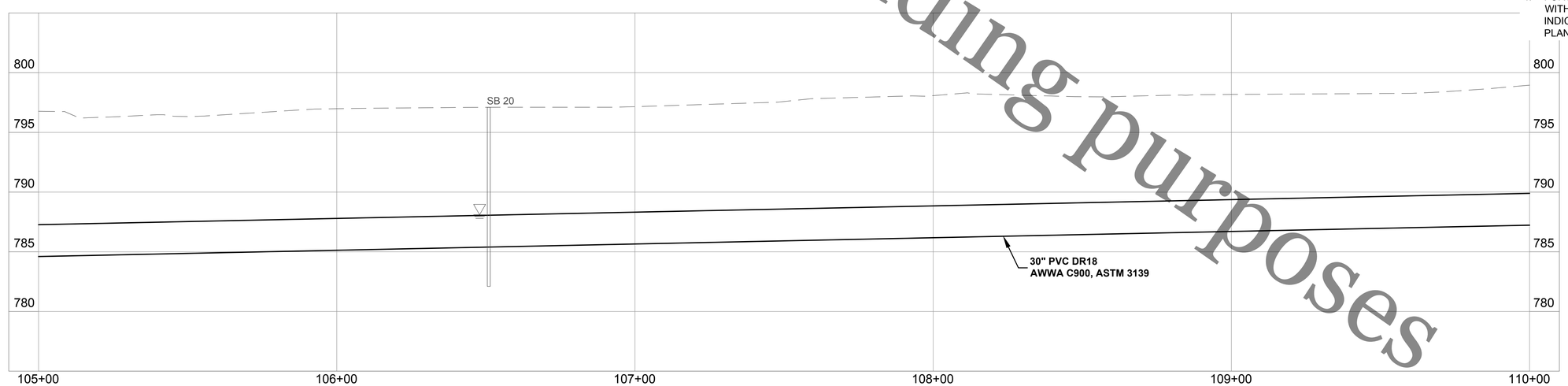


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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**PLAN & PROFILE STA. 105+00.00 TO 110+00.00**

Sheet No. 45 OF 80

FOR BID

Date 3/3/2020

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SEE SHEET 45

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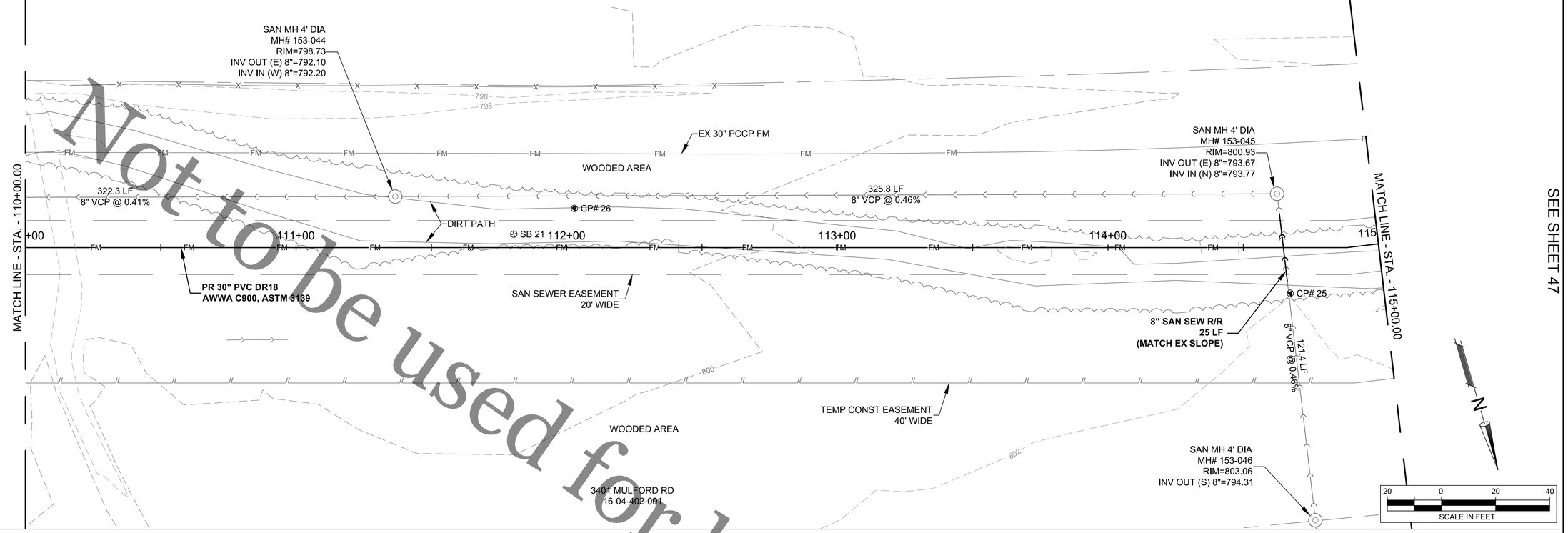


NOTE:
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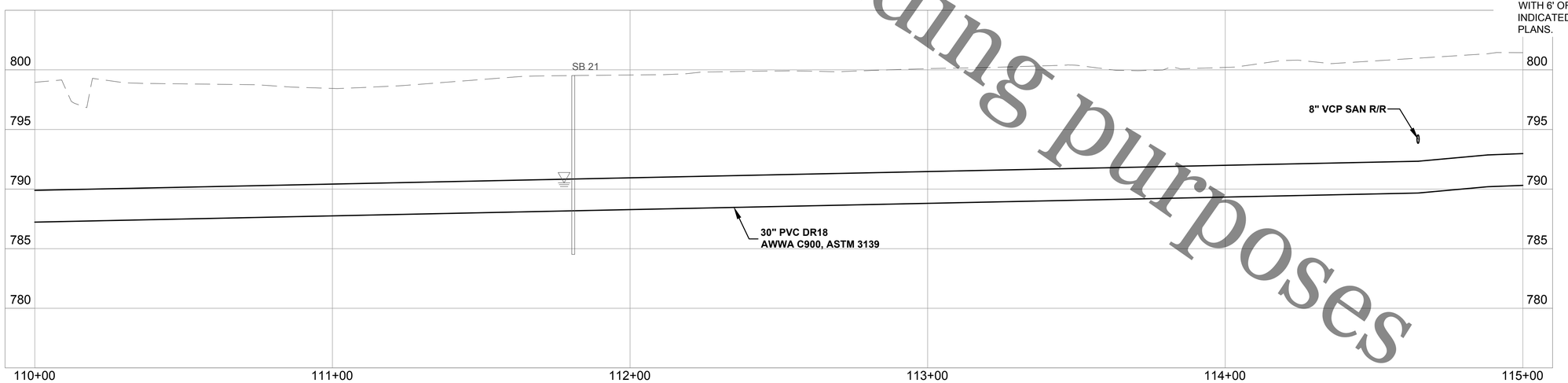


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3501 KISHWAUKEE STREET
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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**PLAN & PROFILE STA. 110+00.00 TO 115+00.00**

Sheet No. 46 OF 80

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Date 3/3/2020

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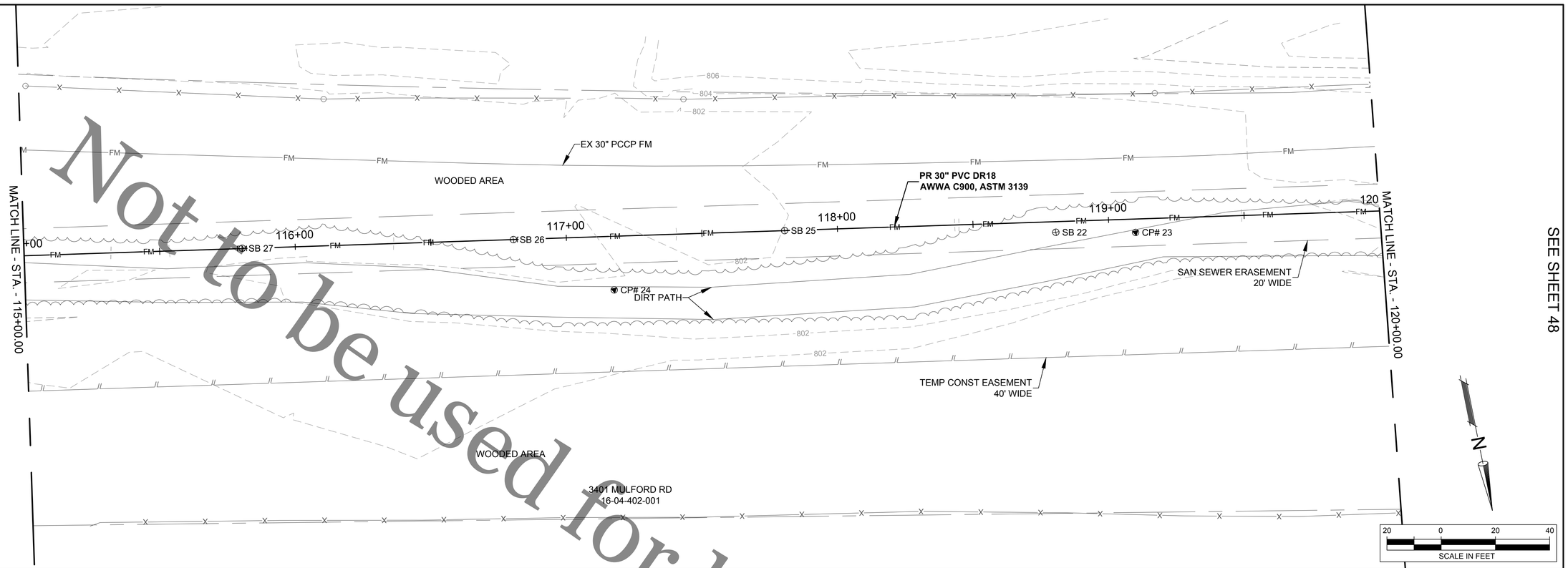
SEE SHEET 46

SEE SHEET 48




NOTE:
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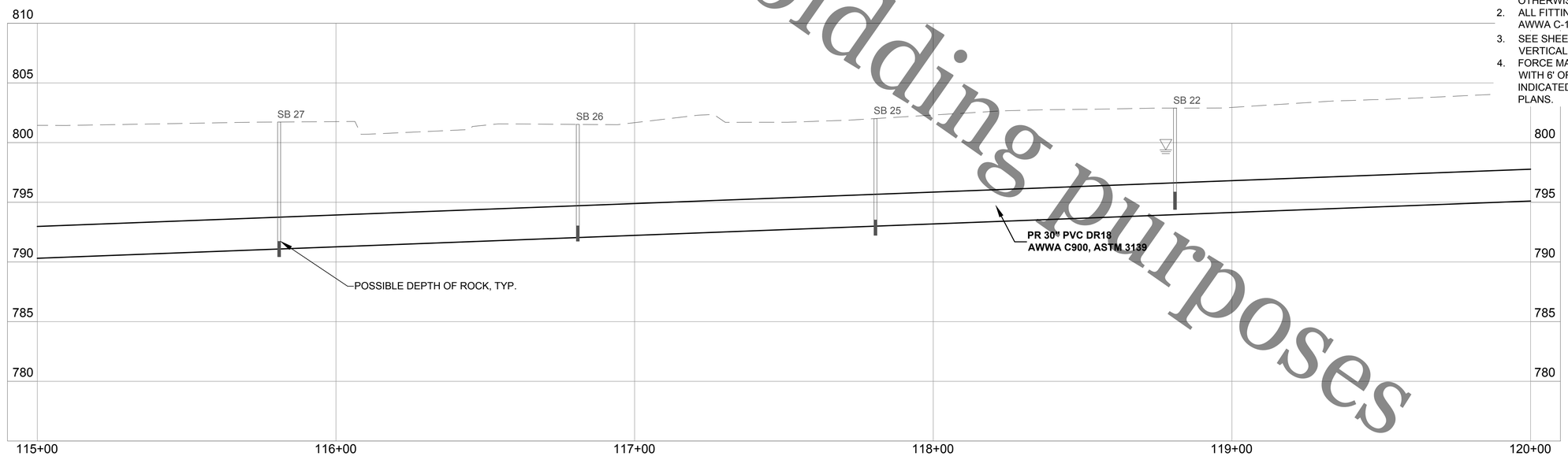


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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**PLAN & PROFILE STA. 115+00.00 TO 120+00.00**

Sheet No. 47 OF 80

FOR BID

Date 3/3/2020

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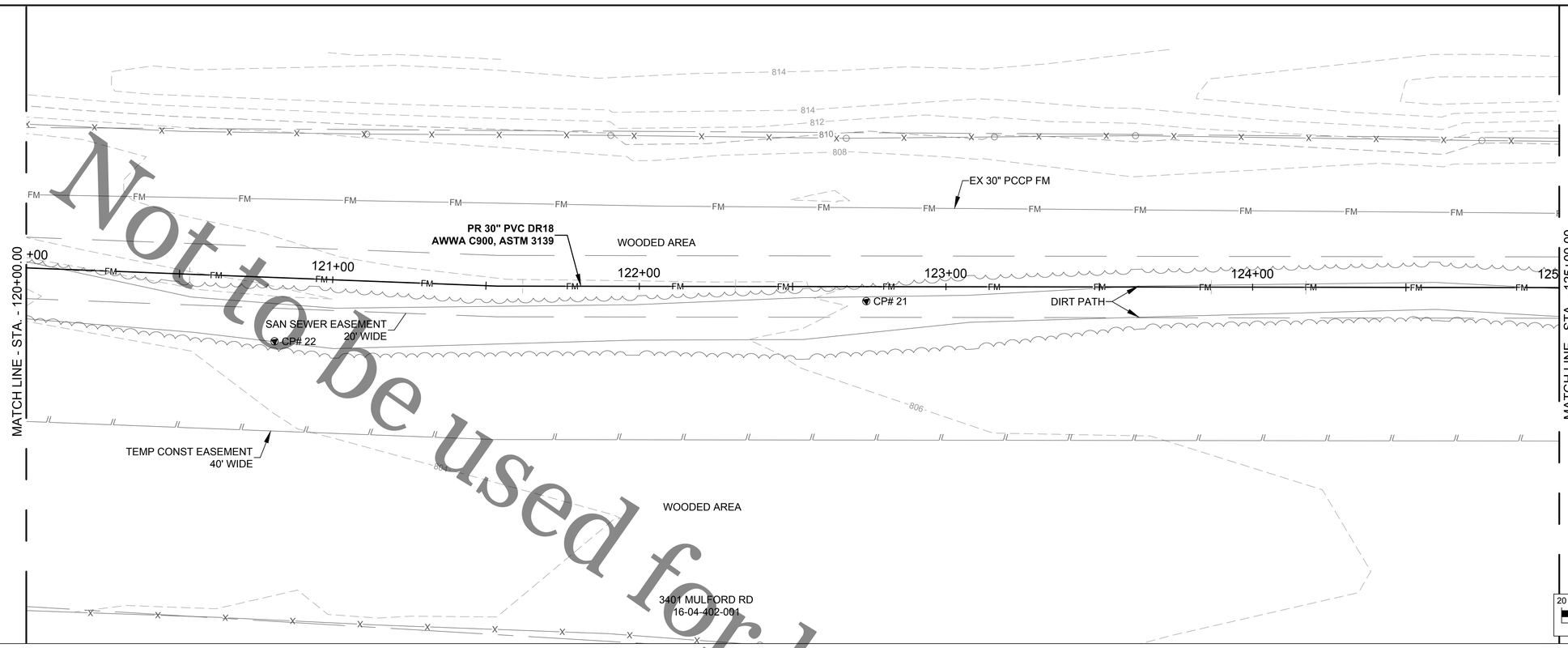
SEE SHEET 47

SEE SHEET 49




NOTE:
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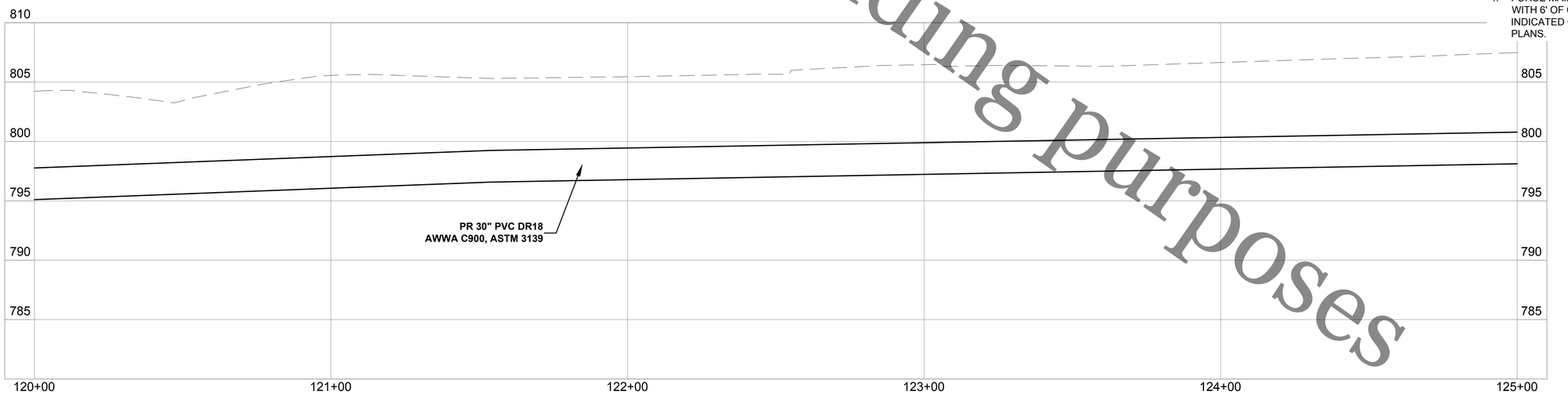


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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**PLAN & PROFILE STA. 120+00.00 TO 125+00.00**

Sheet No. 48 OF 80

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Date 3/3/2020

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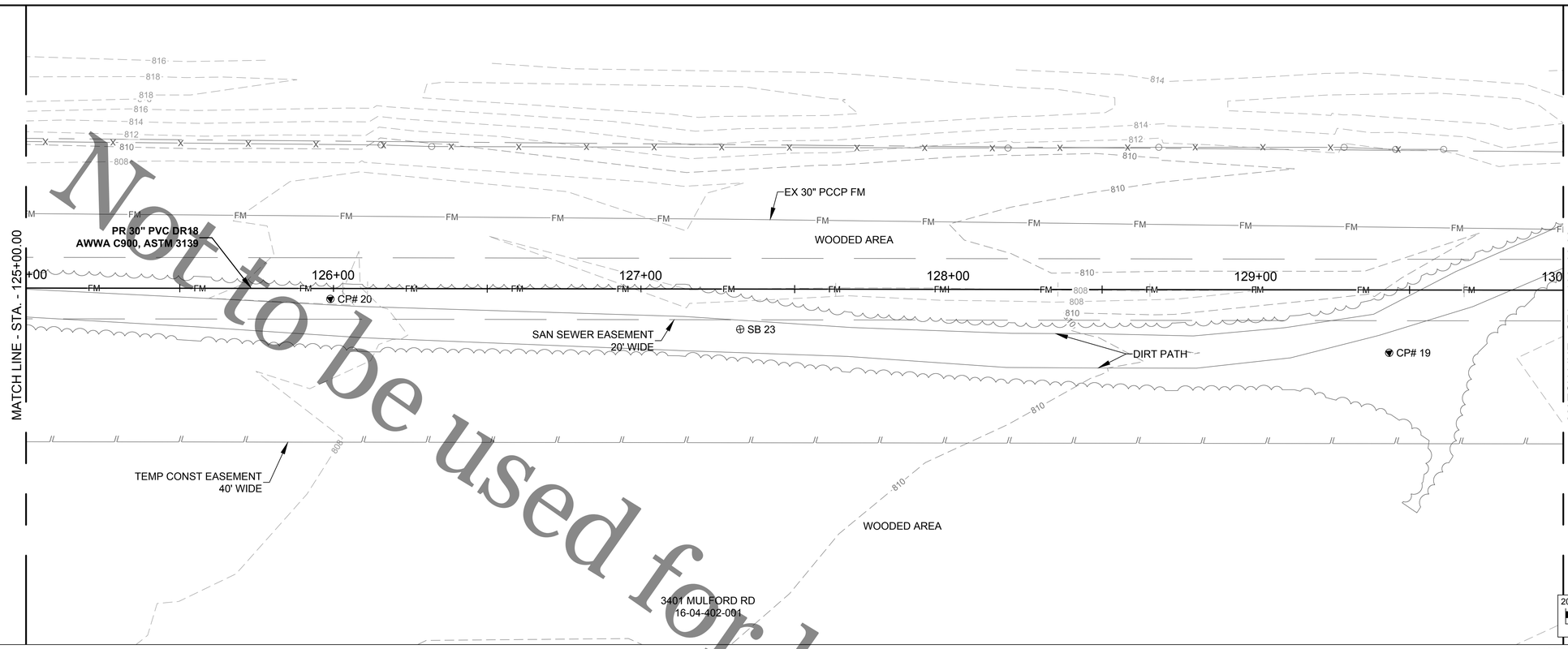
SEE SHEET 48

SEE SHEET 50




NOTE:
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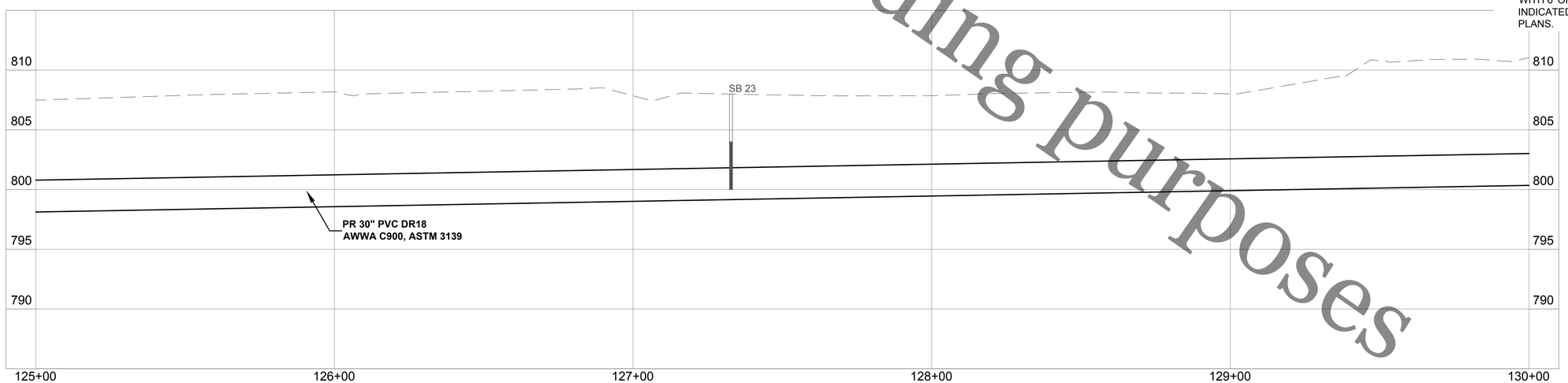


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3501 KISHWAUKEE STREET
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(815) 387-7660

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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**PLAN & PROFILE STA. 125+00.00 TO 130+00.00**

Sheet No. 49 OF 80

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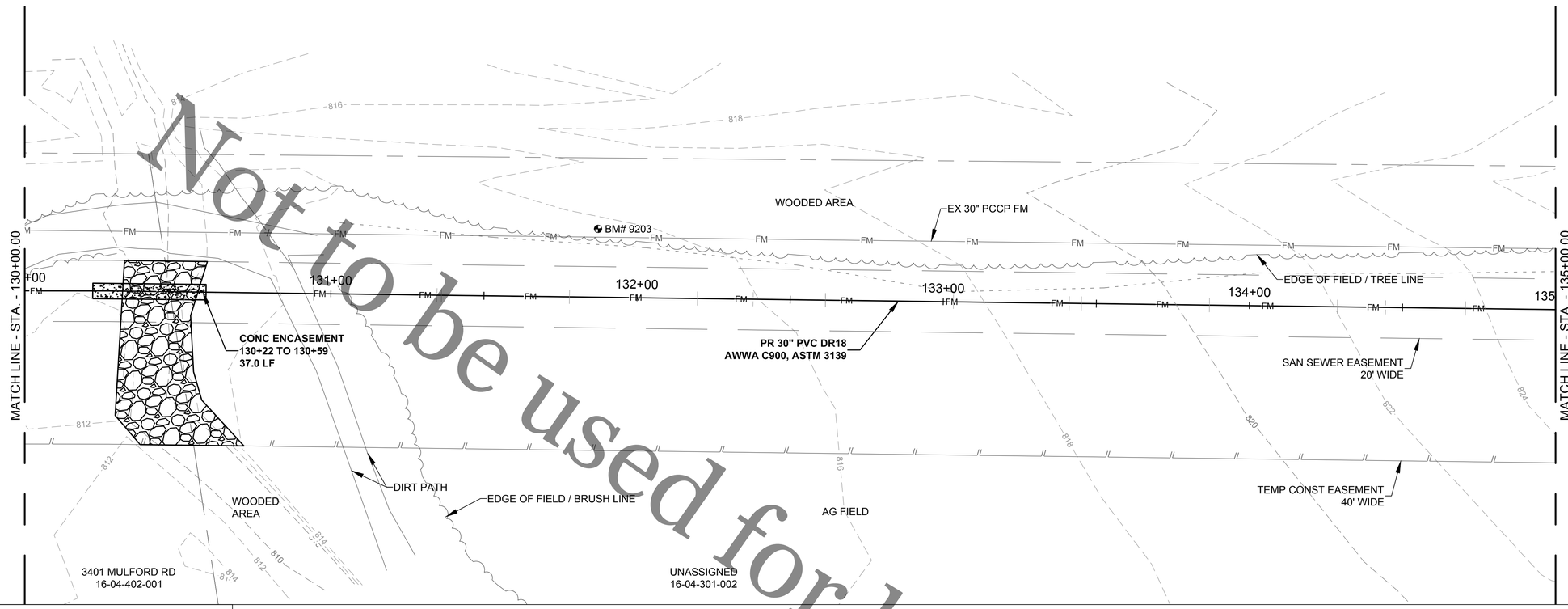
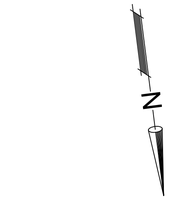
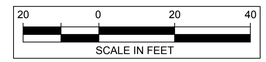
SEE SHEET 49

SEE SHEET 51




NOTE:
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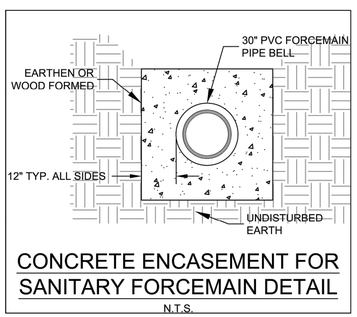
4. FORCE MAIN SHALL BE INSTALLED WITH 6' OF COVER MINIMUM, UNLESS INDICATED OTHERWISE IN THESE PLANS.




CONCRETE ENCASEMENT FOR SANITARY FORCEMAIN DETAIL

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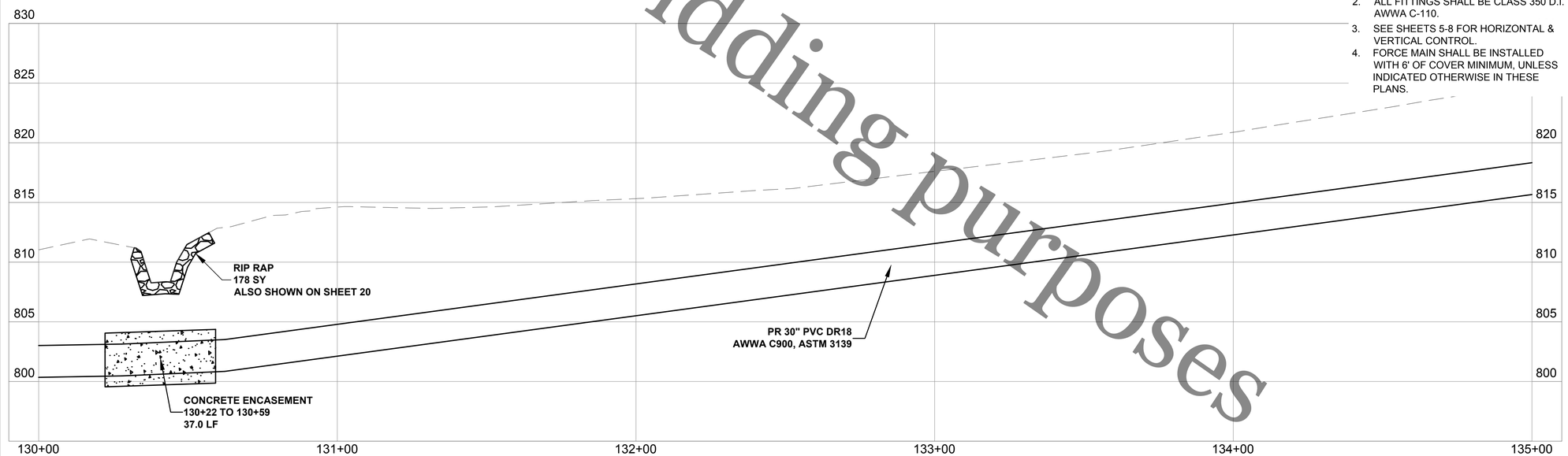


Rock River Water Reclamation District
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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**PLAN & PROFILE STA. 130+00.00 TO 135+00.00**

Sheet No. 50 OF 80

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Date 3/3/2020

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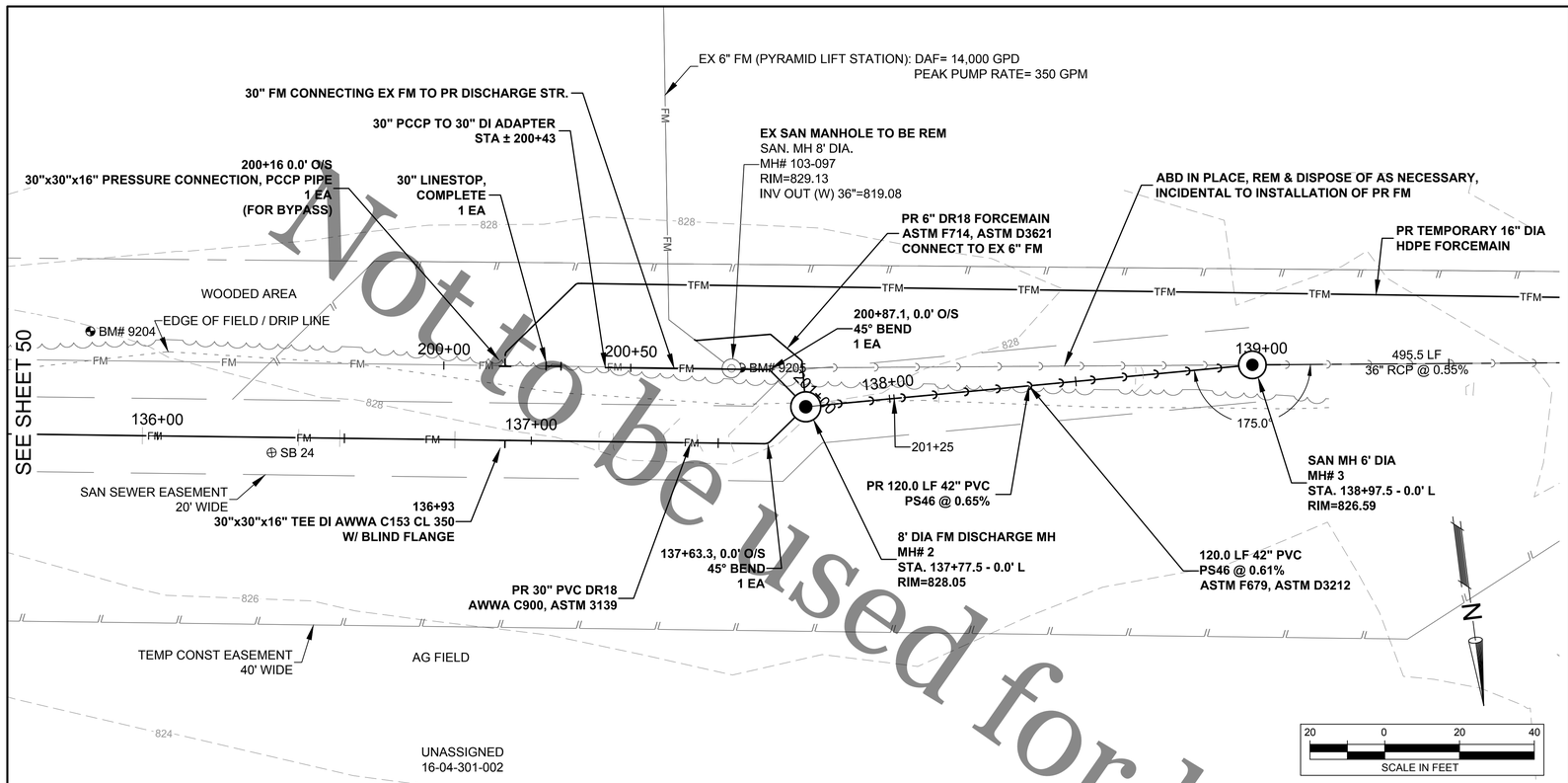


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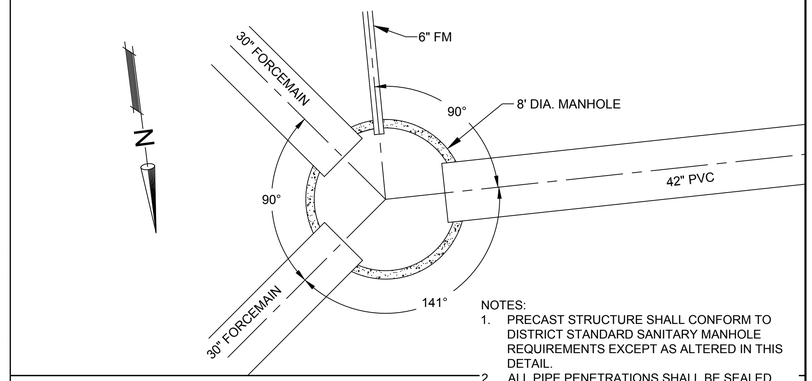


NOTES:
1. PRECAST STRUCTURE SHALL CONFORM TO DISTRICT STANDARD SANITARY MANHOLE REQUIREMENTS EXCEPT AS ALTERED IN THIS DETAIL.
2. ALL PIPE PENETRATIONS SHALL BE SEALED WITH LINK SEALS OR APPROVED ALTERNATIVE.
3. AFTER ALL PIPES ARE INSTALLED, BUT BEFORE ANY PIPES ARE PUT INTO SERVICE, THE CONTRACTOR SHALL COAT ALL INTERIOR CONCRETE SURFACES TO PROTECT AGAINST CORROSION. EPOXY MUST BE A SINGLE COAT MINIMUM OF ¼" AS MANUFACTURED BY WARREN ENVIRONMENTAL, RAVEN, OR APPROVED ALTERNATIVE.
4. HATCH SHALL BE EAST JORDAN MODEL 8218-DOUBLE, HEAVY DUTY RATED HATCH WITH 48"x48" OPENING OR DISTRICT APPROVED EQUAL.

## FORCEMAIN DISCHARGE MANHOLE DETAIL

(NOT TO SCALE)

NOTE:
1. ALL PROPOSED FORCE MAIN PIPING SHALL BE 30" DIA. DR 18 C900 PVC W/ ASTM 3139 JOINTS UNLESS NOTED OTHERWISE.
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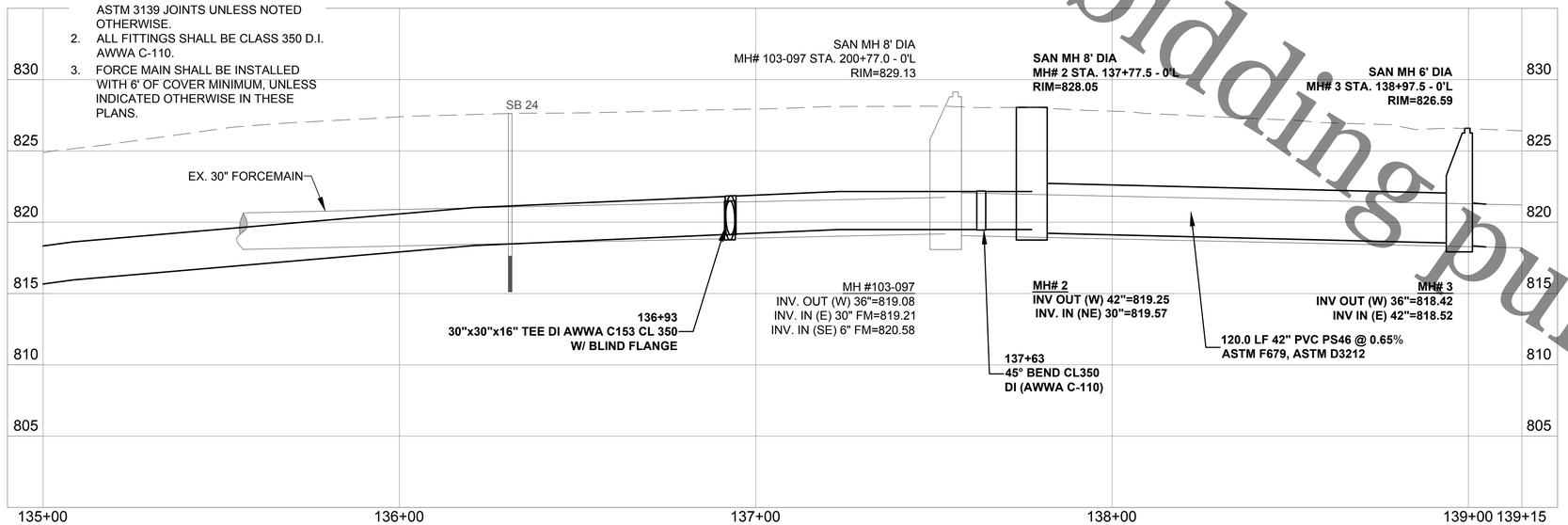
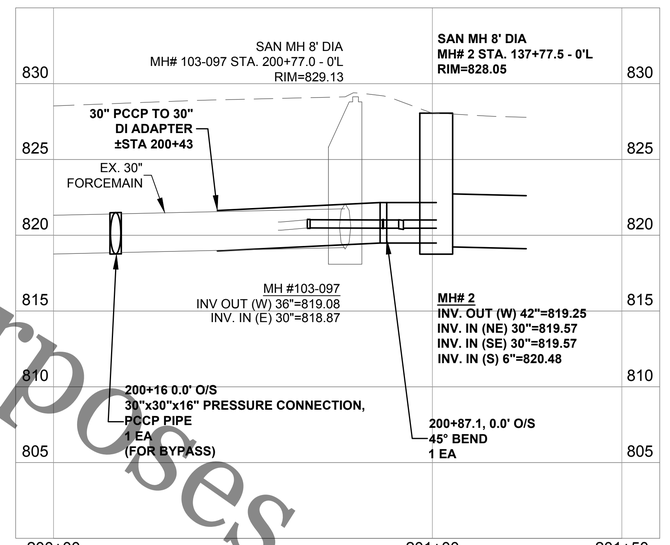
3. FORCE MAIN SHALL BE INSTALLED WITH 6' OF COVER MINIMUM, UNLESS INDICATED OTHERWISE IN THESE PLANS.




## PROPOSED 30" FORCEMAIN ALIGNMENT




## EXISTING 30" FORCEMAIN CONNECTION ALIGNMENT

(200+00 TO 201+25)

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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**PLAN & PROFILE STA. 135+00.00 TO 139+00.00**

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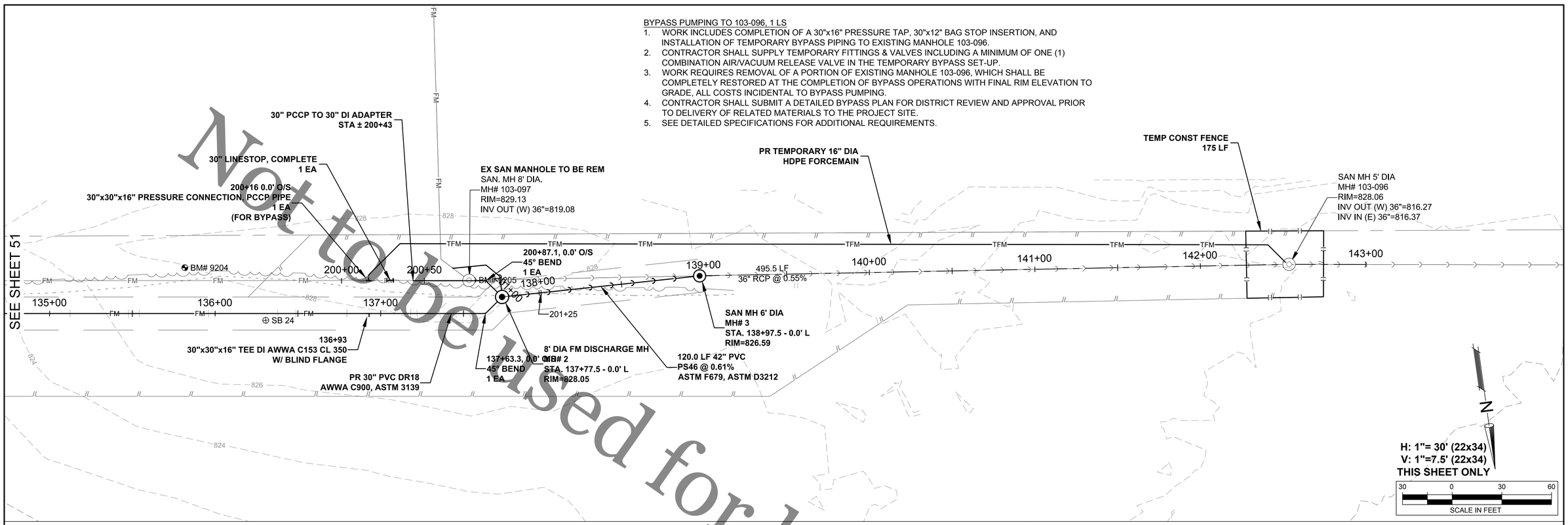
Date 3/3/2020

BYPASS PUMPING TO 103-096, 1 LS

1. WORK INCLUDES COMPLETION OF A 30"x16" PRESSURE TAP, 30"x12" BAG STOP INSERTION, AND INSTALLATION OF TEMPORARY BYPASS PIPING TO EXISTING MANHOLE 103-096.
2. CONTRACTOR SHALL SUPPLY TEMPORARY FITTINGS & VALVES INCLUDING A MINIMUM OF ONE (1) COMBINATION AIR/VACUUM RELEASE VALVE IN THE TEMPORARY BYPASS SET-UP.
3. WORK REQUIRES REMOVAL OF A PORTION OF EXISTING MANHOLE 103-096, WHICH SHALL BE COMPLETELY RESTORED AT THE COMPLETION OF BYPASS OPERATIONS WITH FINAL RIM ELEVATION TO GRADE, ALL COSTS INCIDENTAL TO BYPASS PUMPING.
4. CONTRACTOR SHALL SUBMIT A DETAILED BYPASS PLAN FOR DISTRICT REVIEW AND APPROVAL PRIOR TO DELIVERY OF RELATED MATERIALS TO THE PROJECT SITE.
5. SEE DETAILED SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

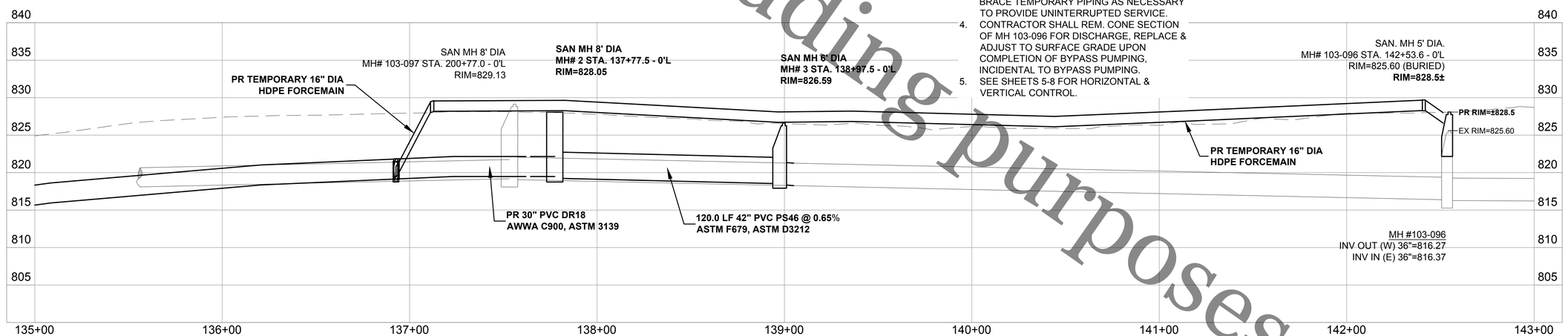



H: 1"= 30' (22x34)
V: 1"=7.5' (22x34)
THIS SHEET ONLY

30 0 30 60
SCALE IN FEET

NOTE:

1. ALL PROPOSED FORCE MAIN PIPING SHALL BE 30" DIA. DR 18 C900 PVC W/ ASTM 3139 JOINTS UNLESS NOTED OTHERWISE.
2. ALL FITTINGS SHALL BE CLASS 350 D.I. AWWA C-110.
3. CONTRACTOR SHALL TEMPORARILY BURY & BRACE TEMPORARY PIPING AS NECESSARY TO PROVIDE UNINTERRUPTED SERVICE.
4. CONTRACTOR SHALL REM. CONE SECTION OF MH 103-096 FOR DISCHARGE, REPLACE & ADJUST TO SURFACE GRADE UPON COMPLETION OF BYPASS PUMPING, INCIDENTAL TO BYPASS PUMPING.
5. SEE SHEETS 5-8 FOR HORIZONTAL & VERTICAL CONTROL.

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CHERRY VALLEY PARALLEL FORCEMAIN
CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667

PLAN & PROFILE STA. 135+00.00 TO STA. 143+00.00

Sheet No.
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NOTES:
1. NO WORK/ALTERATIONS TO THE EXISTING FORCEMAIN PIPING WILL BE ALLOWED UNTIL PROPOSED FORCEMAIN IS TESTED, APPROVED, & OPERATIONAL.
2. ONLY RRWRD PERSONNEL SHALL OPERATE EXISTING VALVES. CONTRACTOR SHALL COORDINATE VALVE OPERATION WITH THE RRWRD AS REQUIRED TO COMPLETE PROPOSED WORK.

CHERRY VALLEY PUMP STATION
4020 BARLEY RIDGE TRL

EX 30" DI FM (TRANSITIONS TO 30" PCCP @ ±286 LF FROM PUMP STATION)
EX 30" PLUG VALVE W/ VAULT
EX 30"x30"x12" SADDLE TEE (VER) W/ 12" GATE VALVE MOUNTED VERTICALLY (DIRECT BURY)
EX ℄30"x30"x30" DI WYE
EX 30"x30"x12" SADDLE TEE (HOR.)
EX 30"x30"x12" SADDLE TEE (HOR)
REM PIPING & CONNECT TO EX TEE FITTING
12" GATE VALVE TO BE REM
0+31.1, 25.0' 45° BEND ℄ 734.97
12" BLIND FLANGE
12" GATE VALVE
0+00
AIR RELEASE VALVE W/ 5' DIA. VAULT
6' DIA. VALVE VAULT V.V.# 01 SEE DETAIL SHEET 79
12" FM DRAIN PIPING DR 18 C900 PVC
0+42.3, 25.2' 45° BEND ℄ 734.49
12"x12"x12" SADDLE TEE (VER) W/ BLIND FLANGE (DIRECT BURY) **TO BE REMOVED, INCIDENTAL TO VALVE VAULT INSTALLATION**
48" MAPLE
EX 30"x36" INCREASER
SAN. MH 5' DIA. MH# 1 0+54.2, 13.8' R RIM=742.4 INV. OUT (E) 24"=730.58 INV. IN (S) 12"=731.80 INV. IN (W) 24"=730.68 INV. IN (N) 12"=733.50 CUT-IN & CONNECT W/ 3'- 24" SDR35 PVC EA SIDE
0+47.3, 20.4' RT 12" PLUG VALVE MOUNTED VERTICALLY, WITH BLIND FLANGE
0+47, 20.4' O/S 12 in x 12 in x 12 in TEE
PERMEABLE PAVEMENT SYSTEM REM AS NEEDED, COST INCIDENTAL
36" PLUG VALVE W/ 8' DIA. VAULT
0+25
0+49.0, 18.7' RT 12" PLUG VALVE
133.1 LF 24" RCP @ 2.76%
6' DIA. VALVE VAULT V.V.# 02 SEE DETAIL SHEET 54
0+63.0, 13.2' RT 12" PLUG VALVE
0+50
0+65.2, 13.0' RT 12" PLUG VALVE MOUNTED VERTICALLY, WITH BLIND FLANGE
SAN. MH 4' DIA. MH# 149-140 RIM=741.96 INV. OUT (SE) 24"=727.64 INV. IN (W) 24"=729.21
PERMEABLE PAVER SYSTEM
WETWELL DISTRIBUTION STRUCTURE
0+74.7, 12.2' 45° BEND ℄ 732.79
0+65, 13.0' RT 12 in x 12 in x 12 in TEE
22.5 LF 24" PVC @ 6.91%
EX 36" DI CL52 FM
12" FM DRAIN PIPING DR 18 C900 PVC
PROPOSED FORCEMAIN ALIGNMENT
CP# 1
0+75
55.1 LF 24" PVC @ 3.29%
0+82.7, 3.0' 45° BEND ℄ 734.67
0+80.13, 0' REM PLUG AND CONNECT TO EX FM WITH 36"x30" REDUCER
EX 36" MJ PLUG
0+85.7, 0.0' 45° BEND ℄ 734.76
0+82.6, 0.0' 30"x30"x12" DI TEE CL350
SAN. MH 5' DIA. MH# 149-192 RIM=739.02 INV. OUT (E) 24"=723.10 INV. IN (NW) 24"=726.25
1"=5' (22x34) THIS SHEET ONLY
5 0 5 10
SCALE IN FEET

file: I:\District Projects\Cherry Valley Parallel FM 1420\Engineering\Dwgs\Pump Station Piping.dwg

Rock River Water Reclamation District

ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

| No. | DATE | REVISION | INT. |
|---|---|---|---|
| | | | |

**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

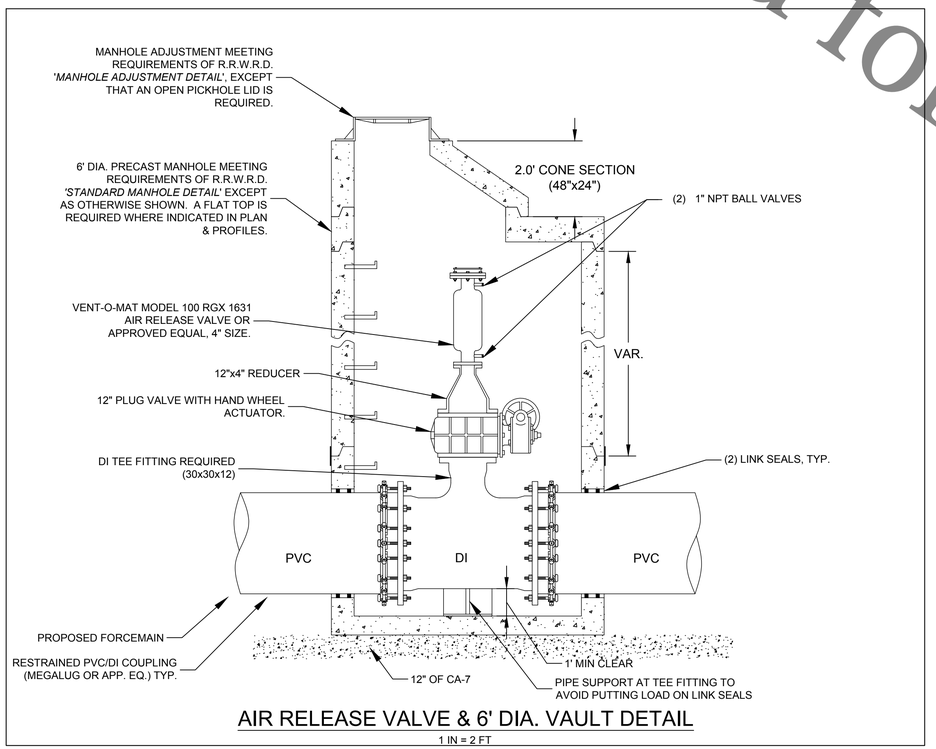
**FORCEMAIN DRAIN PIPING**

Sheet No. 53 OF 80

FOR BID

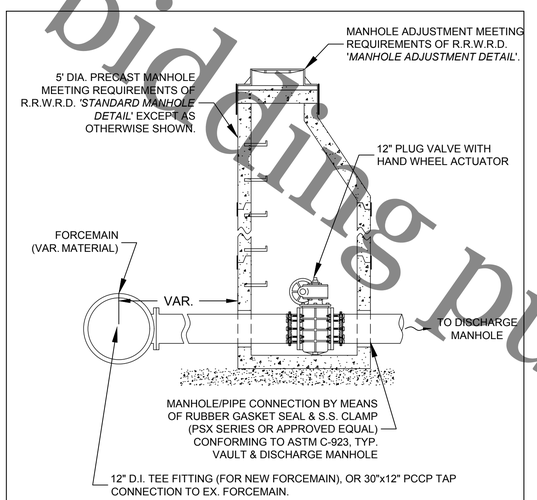
Date 3/3/2020

Not to be used for bidding purposes



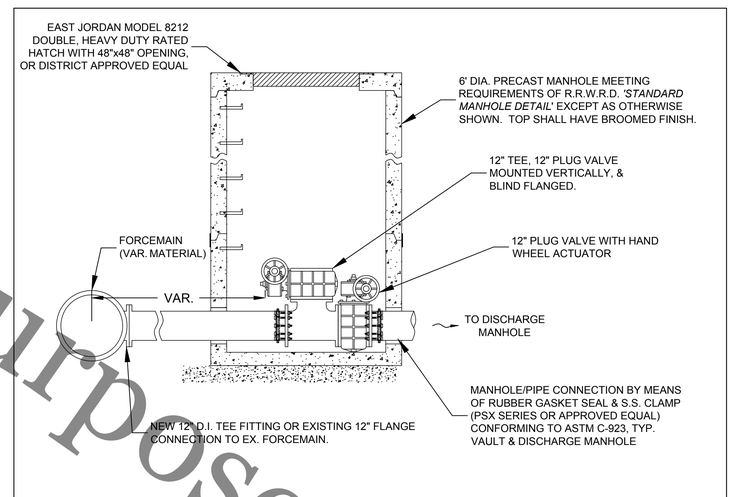

AIR RELEASE VALVE & 6' DIA. VAULT DETAIL

1 IN = 2 FT



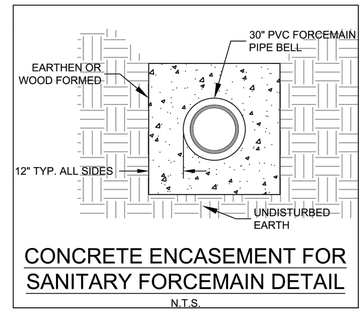

FORCEMAIN DRAINAGE PIPE, VALVE, & 5' DIA. VAULT DETAIL

N.T.S.




FORCEMAIN DRAINAGE PIPE, VALVE, & 6' DIA. VAULT DETAIL

N.T.S.




CONCRETE ENCASEMENT FOR SANITARY FORCEMAIN DETAIL

N.T.S.

Rock River Water Reclamation District

**ROCK RIVER WATER RECLAMATION DISTRICT**
**3501 KISHWAUKEE STREET**
**ROCKFORD, ILLINOIS 61109**
**(815) 387-7660**

| No. | DATE | REVISION | INT. |
|---|---|---|---|
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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**PROJECT DETAILS**

Sheet No. 54 OF 80

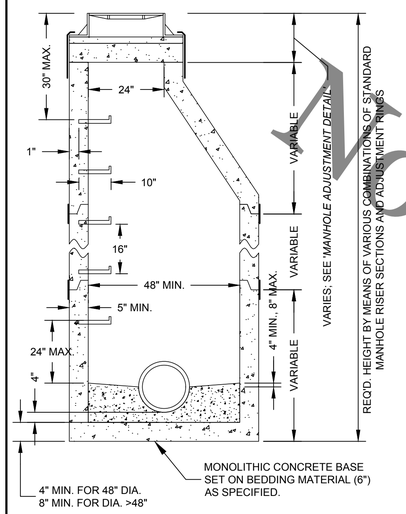
FOR BID

Date 3/3/2020

file: I:\District Projects\Cherry Valley Parallel FM 1420\Engineering\Dwgs\Details.dwg

Not to be used for bidding purposes

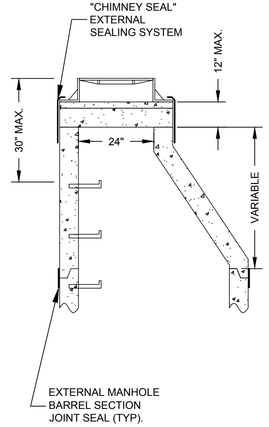
NOTES:
1. THE MAX. DROP FROM THE INVERT OF ANY PIPE TO THE CONCRETE CHANNEL UNDER THAT PIPE SHALL BE 8".
2. MANHOLES LOCATED OUTSIDE OF PUBLIC RIGHT-OF-WAY SHALL BE MARKED WITH A STEEL FENCE POST AS DIRECTED.
3. ALL NEW MANHOLES SHALL BE VACUUM TESTED PER A.S.T.M. C-1244 PRIOR TO ACCEPTANCE.
4. ALL BARREL JOINTS SHALL BE SEALED WITH 3 1/2" x 3/8" BITUMINOUS MATERIAL ON THE LOWER SHIPLAP.
5. ALL BARREL JOINTS SHALL BE SEALED WITH AN EXTERNAL BARREL SEAL CENTERED ON THE JOINT (MAR MAC MACWRAP OR APPROVED EQUAL)
6. MANHOLE STRUCTURE SHALL BE CONSTRUCTED OF PRECAST REINFORCED CONCRETE MANHOLE RISER SECTIONS IN ACCORDANCE WITH A.S.T.M. C478-90 OR THE LATEST DESIGNATION.
7. PRECAST FLAT TOPS ARE NOT APPROVED FOR USE.
8. SEE *'MANHOLE ADJUSTMENT DETAIL'* FOR ADJUSTMENT REQUIREMENTS.
9. PIPE CONNECTIONS TO NEW MANHOLES SHALL BE MADE BY MEANS OF EITHER RUBBER GASKET SEAL (A-LOK OR APPROVED EQUAL) CONFORMING TO ASTM F-477 CAST INTEGRALLY IN MANHOLE WALL, OR RUBBER GASKET SEAL AND STAINLESS STEEL CLAMP (PSX SERIES SIX OR APPROVED EQUAL) CONFORMING TO ASTM C-923. FOR PIPE CONNECTIONS WITH A DEPTH OF >20 FT., A RUBBER GASKET SEAL (A-LOK OR APPROVED EQUAL) CONFORMING TO ASTM F-477 CAST INTEGRALLY IN MANHOLE WALL SHALL BE USED.
10. PIPE CONNECTIONS TO EXISTING MANHOLES SHALL BE MADE BY MEANS OF CORE DRILLING MANHOLE WALL AND INSTALLING RUBBER GASKET SEAL AND STAINLESS STEEL CLAMP (PSX SERIES SIX OR APPROVED EQUAL) CONFORMING TO ASTM C-923.
11. THE MAXIMUM DISTANCE FROM ANY INLET PIPE INVERT TO THE OUTLET PIPE INVERT SHALL BE 2'. A DISTANCE GREATER THAN 2' WILL REQUIRE AN INSIDE DROP CONNECTION PER *'INSIDE DROP MANHOLE DETAIL'*.
12. MANHOLE STEPS SHALL BE NEENAH R-1982-F OR M.A. IND. PS-1 OR APPROVED EQUAL AT 16" CENTERS.




## STANDARD MANHOLE DETAIL
('*MANHOLE ADJUSTMENT DETAIL*' SHALL APPLY)

rev. 4/1/19

NOTES:
1. MANHOLE FRAME & LID SHALL BE NEENAH R-1670 OR EAST JORDAN E-1117 WITH NON-ROCKING & SELF-SEALING LID.
2. LID SHALL HAVE 2" HIGH "SANITARY" LETTERING & A CONCEALED PICK HOLE.
3. ALL ADJUSTMENT RING JOINTS SHALL BE SEALED WITH TWO 1" BEADS OF APPROVED BITUMINOUS MATERIAL, INCLUDING FRAME TO CONCRETE JOINT.
4. NO TARRING OR GROUTING IS ALLOWED ON THE INSIDE OF MANHOLE OR ADJUSTMENT JOINTS.
5. 2" RINGS ALLOWED ONLY IN THE CITY OF ROCKFORD RIGHT-OF-WAY; ALL OTHER 2" RINGS SHALL BE RRWRD APPROVED RUBBER ADJUSTMENT RING.
6. ONLY ONE 2" RING ALLOWED PER MANHOLE. MAXIMUM ADJUSTMENT IS 12". MINIMUM ADJUSTMENT IS 4" UNLESS OFF-ROAD OR IN CURB & GUTTER ROADWAY.
7. WHEN A FRAME REQUIRES PITCHING, A MIN. OF 3 SHIMS EQUALLY SPACED SHALL BE INSTALLED BETWEEN THE FRAME AND CONCRETE AND HYDRAULIC CEMENT SHALL BE USED TO FILL THE VOID BETWEEN THE FRAME & CONCRETE.
8. FLAT-TOPS ARE NOT PERMITTED ON 4' OR 5' DIA. MANHOLES.
9. REPLACEMENT OF EXISTING BARREL SECTIONS MAY BE REQUIRED TO MEET THE ABOVE REQUIREMENTS.



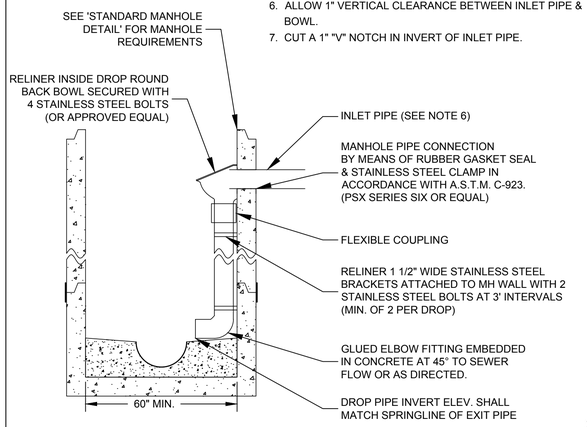

## MANHOLE ADJUSTMENT DETAIL
(FOR ADJUSTMENT OF BOTH NEW & EXISTING MANHOLES)

rev. 5/15/18

**DROP BOWL & DROP PIPE SIZING TABLE**

| INLET PIPE DIA. | DROP PIPE DIA. (MIN.) |
|---|---|
| 4-6 INCH | 4 INCH |
| 8 INCH | 6 INCH |
| 10 INCH | 8 INCH |
| >10 INCH | * |
| * PER MFG. OR AS DIRECTED BY RRWRD | |

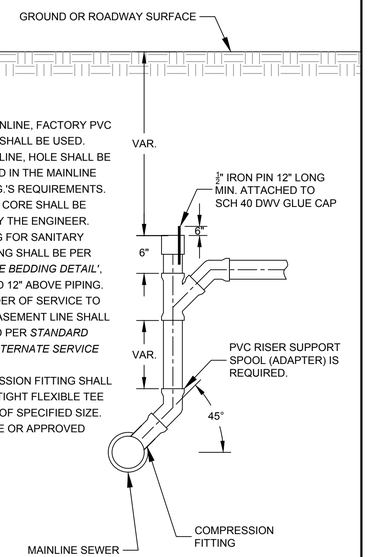
NOTES:
1. INSIDE DROP TYPE MANHOLES SHALL BE 5' MIN. INSIDE DIA.
2. ALL INSIDE DROP TYPE CONNECTIONS FOR SERVICES AND COLLECTOR SEWERS SHALL USE THE DROP AS PRODUCED BY RELINER-DURAN INC. OR EQUAL.
3. SEE TABLE FOR DROP BOWL AND DROP PIPE SIZES.
4. ALL INSIDE DROP PIPING SHALL BE PVC SDR35 ASTM-D3034.
5. ATTACH THE ROUND BACK DROP BOWL AND EACH CLAMPING BRACKET TO THE MANHOLE WALL WITH 3/8"x 1" MIN. STAINLESS STEEL BOLTS AND EPOXY IMPREGNATED LUGS PER MFG. RECOMMENDATIONS.
6. ALLOW 1" VERTICAL CLEARANCE BETWEEN INLET PIPE & BOWL.
7. CUT A 1" "V" NOTCH IN INVERT OF INLET PIPE.




## INSIDE DROP MANHOLE DETAIL
('*STANDARD MANHOLE DETAIL*' SHALL APPLY)

rev. 5/15/18

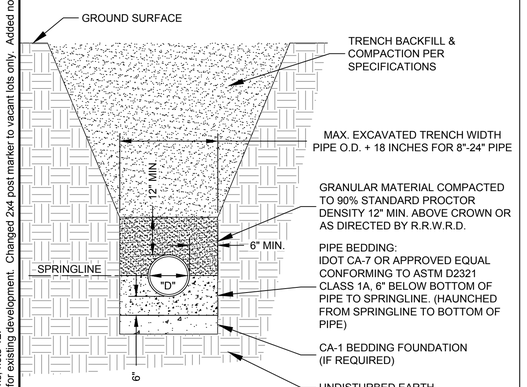
NOTES:
1. FOR NEW MAINLINE, FACTORY PVC WYE FITTING SHALL BE USED.
2. FOR EX. MAINLINE, HOLE SHALL BE CORE DRILLED IN THE MAINLINE PIPE PER MFG.'S REQUIREMENTS. LOCATION OF CORE SHALL BE APPROVED BY THE ENGINEER.
3. PIPE BEDDING FOR SANITARY SERVICE PIPING SHALL BE PER *'FLEXIBLE PIPE BEDDING DETAIL'*, 6" BELOW AND 12" ABOVE PIPING.
4. THE REMAINDER OF SERVICE TO PROPERTY/EASEMENT LINE SHALL BE INSTALLED PER *STANDARD SERVICE & ALTERNATE SERVICE DETAIL*.
5. THE COMPRESSION FITTING SHALL BE A WATER-TIGHT FLEXIBLE TEE CONNECTOR OF SPECIFIED SIZE. (INSERT-A-TEE OR APPROVED EQUAL).




## VERTICAL SERVICE RISER DETAIL
(FOR MAINLINE DIA. 8" - 18")

rev. 5/15/18

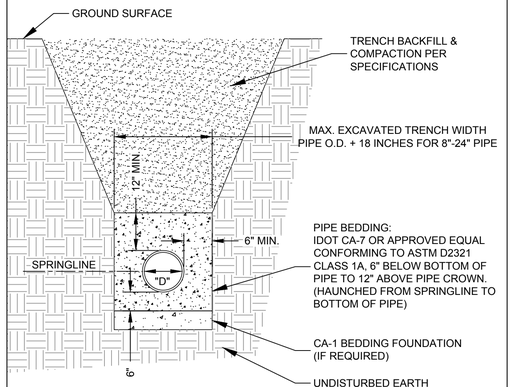
NOTES:
1. REASONABLE CARE SHALL BE USED WHEN BACKFILLING OVER SEWER. NO MATERIALS SUCH AS ROCKS OR BOULDERS SHALL BE PLACED WITHIN 24" OF THE CROWN OF THE PIPE. NO MATERIAL LARGER THAN 8" DIA. SHALL BE USED IN THE BACKFILL.
2. LOOSE MATERIAL TO BE REMOVED OR COMPACTED PRIOR TO PLACING PIPE BEDDING.
3. BEDDING SHALL BE WELL HAUNCHED ALONG PIPE TO ENSURE VOIDS ARE ELIMINATED.




## RIGID PIPE BEDDING DETAIL

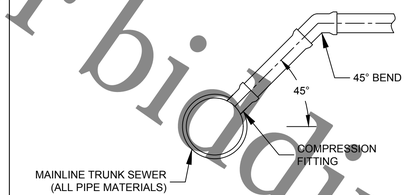
rev. 4/1/19

NOTES:
1. REASONABLE CARE SHALL BE USED WHEN BACKFILLING OVER SEWER. NO MATERIALS SUCH AS ROCKS OR BOULDERS SHALL BE PLACED WITHIN 24" OF THE CROWN OF THE PIPE. NO MATERIAL LARGER THAN 8" DIA. SHALL BE USED IN THE BACKFILL.
2. LOOSE MATERIAL TO BE REMOVED OR COMPACTED PRIOR TO PLACING PIPE BEDDING.
3. BEDDING SHALL BE WELL HAUNCHED ALONG PIPE TO ENSURE VOIDS ARE ELIMINATED.




## FLEXIBLE PIPE BEDDING DETAIL

rev. 4/1/19

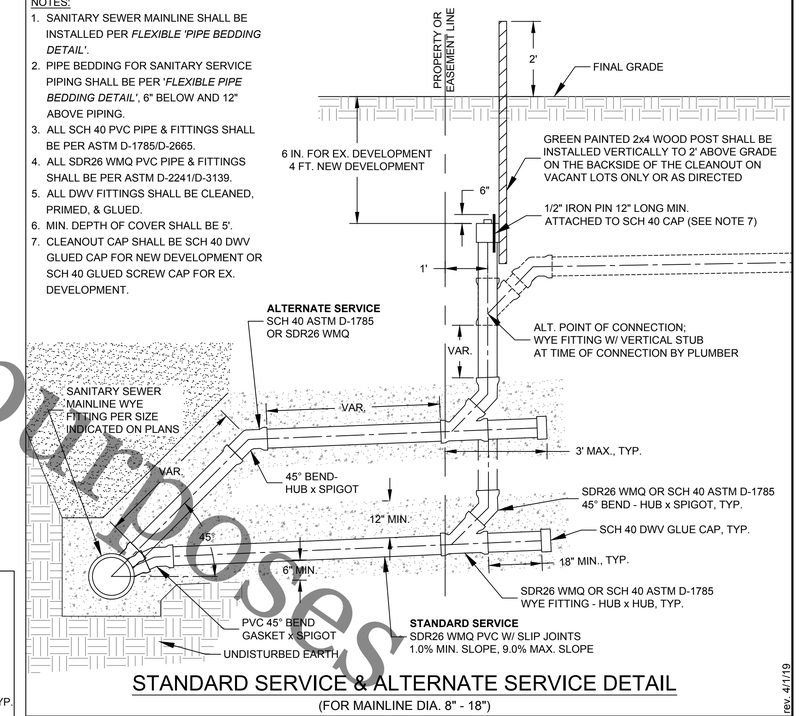



NOTES:
1. HOLE SHALL BE CORE DRILLED IN THE MAINLINE PIPE PER MFG.'S REQUIREMENTS.
2. LOCATION OF CORE SHALL BE APPROVED BY THE ENGINEER.
3. PIPE BEDDING SHALL BE PER *'FLEXIBLE PIPE BEDDING DETAIL'* 6" BELOW AND 12" ABOVE.
4. THE REMAINDER OF SERVICE TO PROPERTY/EASEMENT LINE SHALL BE INSTALLED PER *'STANDARD SERVICE & ALTERNATE SERVICE DETAIL'*.
5. THE COMPRESSION FITTING SHALL BE A WATER-TIGHT FLEXIBLE TEE CONNECTOR OF SPECIFIED SIZE. (INSERT-A-TEE OR APPROVED EQUAL).

## SERVICE CONNECTION DETAIL FOR CONNECTION TO 18" DIA. OR LARGER PIPE

rev. 5/15/18

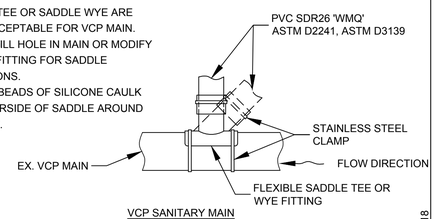
NOTES:
1. SANITARY SEWER MAINLINE SHALL BE INSTALLED PER *FLEXIBLE 'PIPE BEDDING DETAIL'*.
2. PIPE BEDDING FOR SANITARY SERVICE PIPING SHALL BE PER *'FLEXIBLE PIPE BEDDING DETAIL'*, 6" BELOW AND 12" ABOVE PIPING.
3. ALL SCH 40 PVC PIPE & FITTINGS SHALL BE PER ASTM D-1785/D-2665.
4. ALL SDR26 WMQ PVC PIPE & FITTINGS SHALL BE PER ASTM D-2241/D-3139.
5. ALL DWV FITTINGS SHALL BE CLEANED, PRIMED, & GLUED.
6. MIN. DEPTH OF COVER SHALL BE 5'.
7. CLEANOUT CAP SHALL BE SCH 40 DWV GLUED CAP FOR NEW DEVELOPMENT OR SCH 40 GLUED SCREW CAP FOR EX. DEVELOPMENT.




## STANDARD SERVICE & ALTERNATE SERVICE DETAIL
(FOR MAINLINE DIA. 8" - 18")

rev. 4/1/19

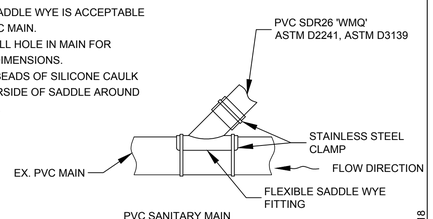
NOTES:
1. REASONABLE CARE SHALL BE USED WHEN BACKFILLING OVER SEWER. NO MATERIALS SUCH AS ROCKS OR BOULDERS SHALL BE PLACED WITHIN 24" OF THE CROWN OF THE PIPE. NO MATERIAL LARGER THAN 8" DIA. SHALL BE USED IN THE BACKFILL.
2. LOOSE MATERIAL TO BE REMOVED OR COMPACTED PRIOR TO PLACING PIPE BEDDING.
3. SADDLE TEE OR SADDLE WYE ARE BOTH ACCEPTABLE FOR VCP MAIN.
4. CORE DRILL HOLE IN MAIN OR MODIFY EX. VCP FITTING FOR SADDLE DIMENSIONS.
5. APPLY 2 BEADS OF SILICONE CAULK TO UNDERSIDE OF SADDLE AROUND OPENING.




## FLEXIBLE SADDLE CONNECTION DETAIL

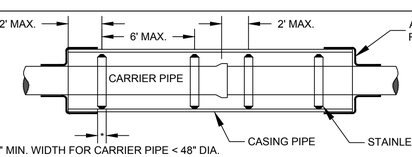
rev. 5/15/18

NOTES:
1. REASONABLE CARE SHALL BE USED WHEN BACKFILLING OVER SEWER. NO MATERIALS SUCH AS ROCKS OR BOULDERS SHALL BE PLACED WITHIN 24" OF THE CROWN OF THE PIPE. NO MATERIAL LARGER THAN 8" DIA. SHALL BE USED IN THE BACKFILL.
2. LOOSE MATERIAL TO BE REMOVED OR COMPACTED PRIOR TO PLACING PIPE BEDDING.
3. BEDDING SHALL BE WELL HAUNCHED ALONG PIPE TO ENSURE VOIDS ARE ELIMINATED.
4. ONLY A SADDLE WYE IS ACCEPTABLE FOR A PVC MAIN.
5. CORE DRILL HOLE IN MAIN FOR SADDLE DIMENSIONS.
6. APPLY 2 BEADS OF SILICONE CAULK TO UNDERSIDE OF SADDLE AROUND OPENING.




## FLEXIBLE SADDLE CONNECTION DETAIL

rev. 5/15/18




* 8" MIN. WIDTH FOR CARRIER PIPE < 48" DIA.
12" MIN. WIDTH FOR CARRIER PIPE ≥ 48" DIA.

NOTES:
1. CASING END SEALS & SPACERS SHALL BE AS MFG. BY CASCADE MFG., OR APPROVED EQUAL.
2. FOR FLEXIBLE CARRIER PIPE, SPACING OF SPACERS TO BE AS SHOWN, OR PER MFG.'S RECOMMENDATION.
3. FOR RIGID CARRIER PIPE, SPACING SHALL BE PER MFG.'S RECOMMENDATION.

## CASING & SPACER DETAIL

rev. 5/15/18

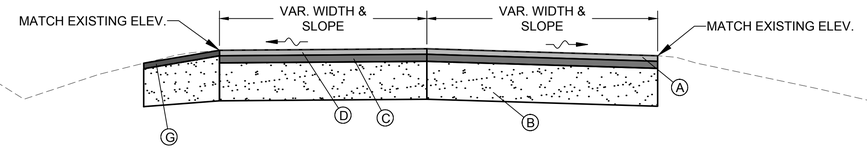
4/1/19 Revisions:
Entire sheet: Made minor spelling/wording changes.
Rigid Pipe Bedding Detail: Added note 3.
Flexible Pipe Bedding Detail: Added note 3.
Standard Manhole Detail: Added manhole step specifications and dimensions, note 12.
Standard Service & Alt. Service Detail: Revised cleanout depth to 6 inches for existing development. Changed 2x4 post marker to vacant lots only. Added note 7.

Rock River Water Reclamation District

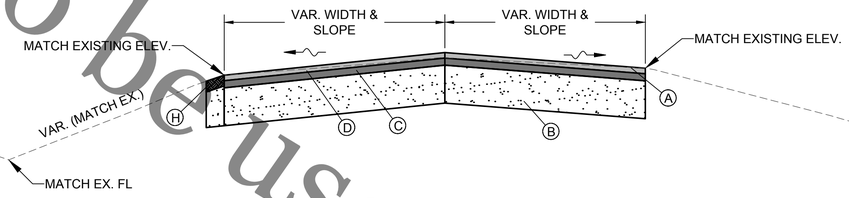
**ROCK RIVER WATER RECLAMATION DISTRICT**
**STANDARD DETAIL SHEET**
**(NOT TO SCALE)**
**3501 KISHWAUKEE ST. P.O. BOX 7480**
**ROCKFORD, ILLINOIS 61109 PH. (815) 387-7660**

Sheet No. 55 of 80

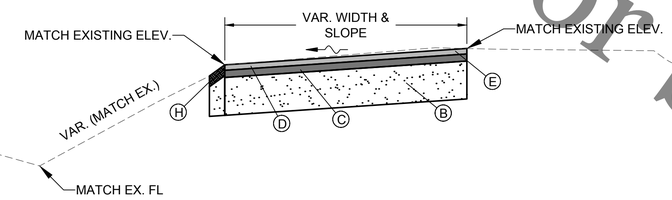
ISSUE 4/1/19



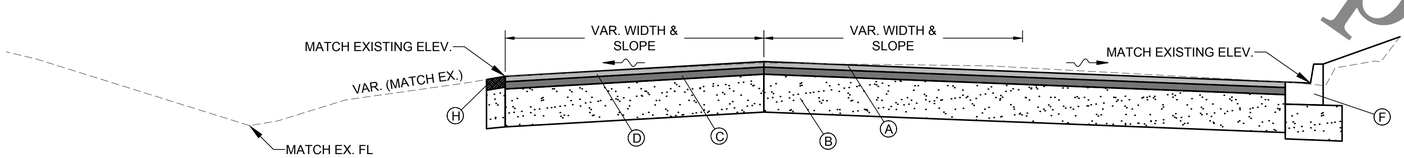

BARLEY RIDGE TRL
STA. 500+25 TO MILL RD
(SHOWN AT DRIVEWAY)




MILL RD
STA. 1000+44 TO STA. 1001+73




MILL RD
STA. 1001+73 TO STA. 1023+06




MILL RD
STA. 1023+06 TO STA. 1024+16

## LEGEND

- (A) EXISTING HMA PAVEMENT TO BE REM. (FULL WIDTH)
- (B) AGGREGATE BASE COURSE, TY. B, 12"
- (C) HMA BINDER COURSE, N50, IL-19.0, 2 $\frac{1}{4}$"
- (D) HMA SURFACE COURSE, MIX 'C', N50, IL-9.5, 2"
- (E) EXISTING HMA PAVEMENT TO BE REM. (ONE LANE)
- (F) R/R PCC CURB & GUTTER, TY B6.24
- (G) DRIVEWAY PAVEMENT, WHERE APPLICABLE
- (H) TOPSOIL, 4" MIN.

## HOT-MIX ASPHALT MIXTURE REQUIREMENTS

| MIXTURE USE(S) | SURFACE COURSE | BINDER COURSE |
|---|---|---|
| PG: | PG 64-22 | PG 64-22 |
| DESIGN AIR VOIDS | 4.0 @ N50 | 4.0 @ N50 |
| MIXTURE COMPOSITION (GRADATION MIXTURE) | IL 9.5 | IL 19.0 |
| FRICTION AGGREGATE | MIX "C" | N/A |
| MIX UNIT WEIGHT | 112 lbs/sy/in | 112 lbs/sy/in |
| THESE MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT | | |

NOTE:
THE PROPOSED ROADWAY CENTERLINE ALIGNMENTS AND PROFILES WERE RE-CREATED USING AUTOCAD CIVIL 3D TO 'BEST FIT' AS CLOSE AS PRACTICAL TO THE EXISTING ROADWAY CENTERLINE ALIGNMENTS AND PROFILES.

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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**ROADWAY- TYPICAL SECTIONS**

Sheet No. 56 OF 80

FOR BID

Date 3/3/2020

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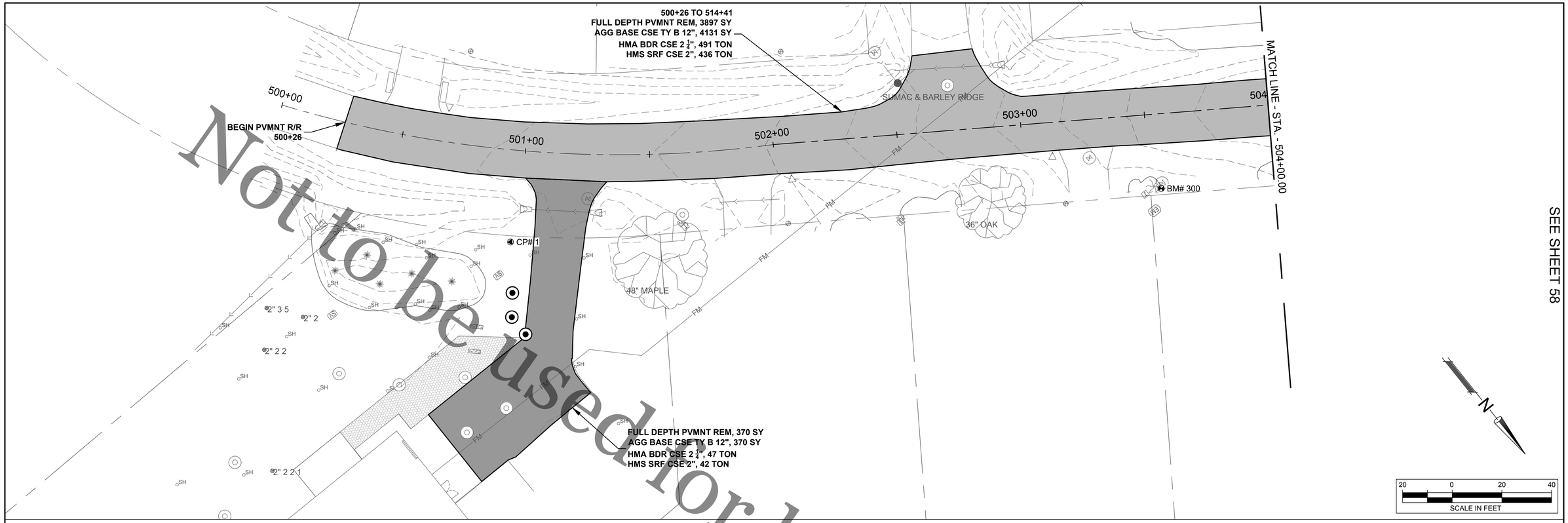


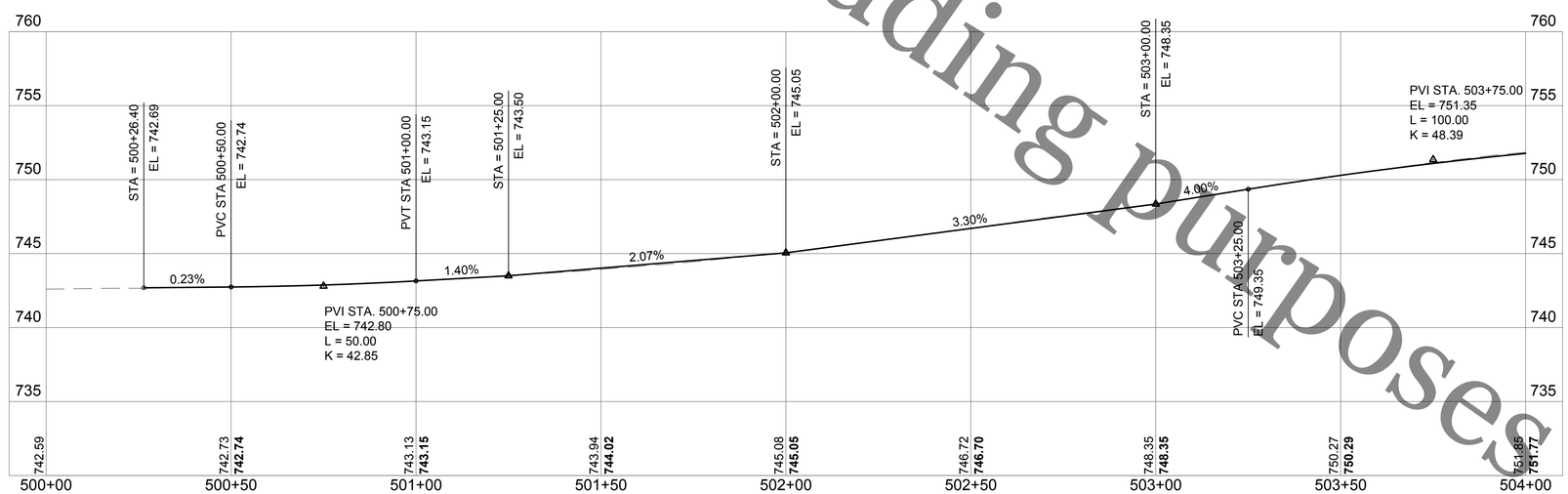


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| ROCK RIVER WATER RECLAMATION DISTRICT<br>3501 KISHWAUKEE STREET<br>ROCKFORD, ILLINOIS 61109<br>(815) 387-7660 | No. | DATE | REVISION | INT. | CHERRY VALLEY PARALLEL FORCEMAIN<br>CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667 | ROADWAY-BARLEY RIDGE TRL STA. 500+00.00 TO 504+00.00 | Sheet No.<br>57 OF 80 |
| | | | | | | FOR BID | Date<br>3/3/2020 |

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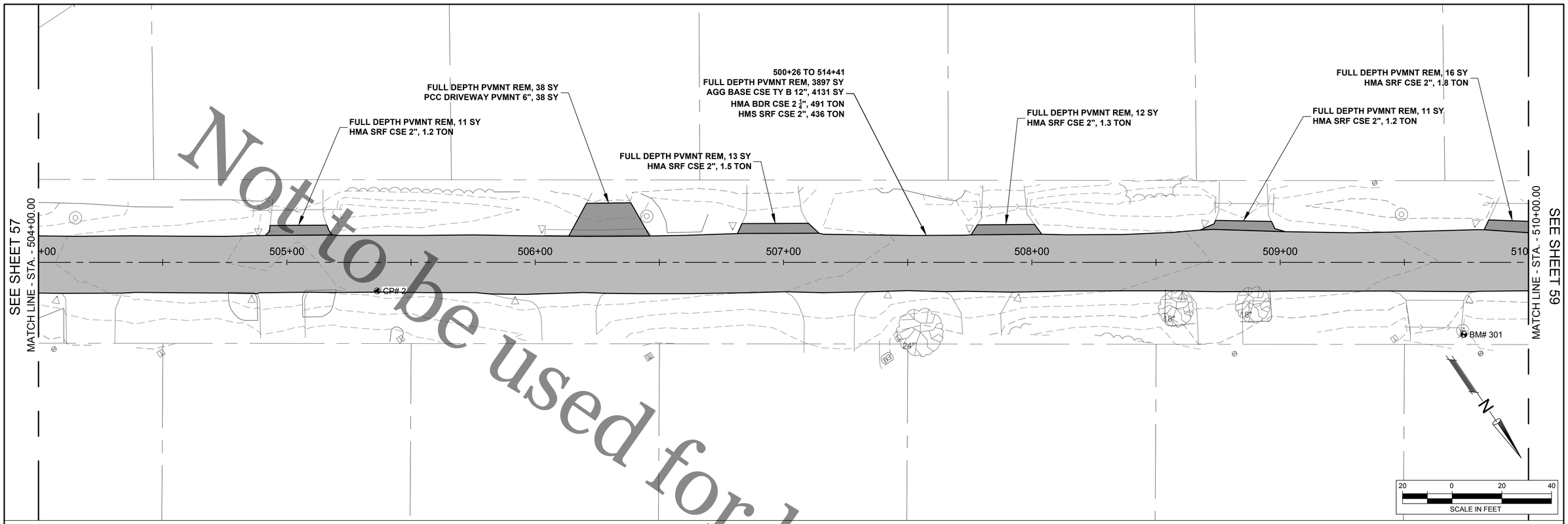


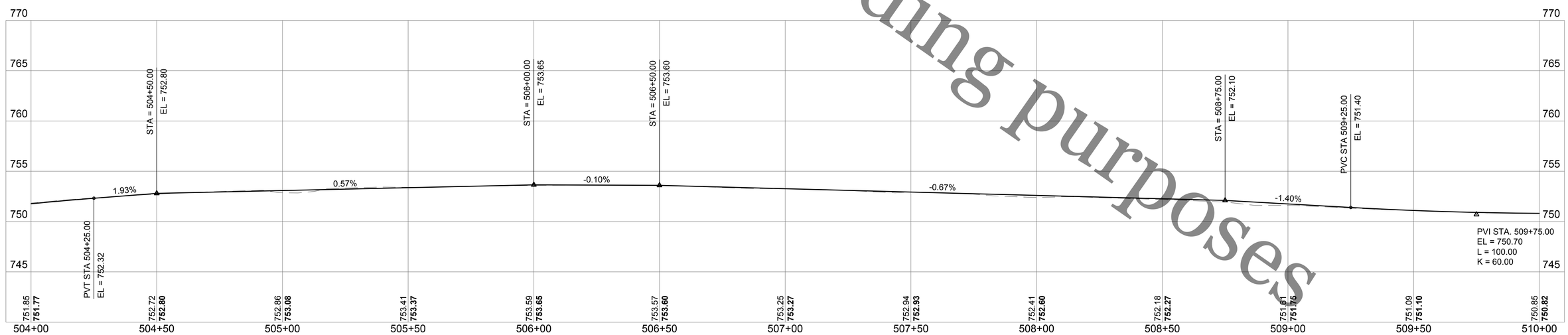


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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**ROADWAY-BARLEY RIDGE TRL STA. 504+00.00 TO 510+00.00**

Sheet No.
58 OF 80

FOR BID

Date
3/3/2020

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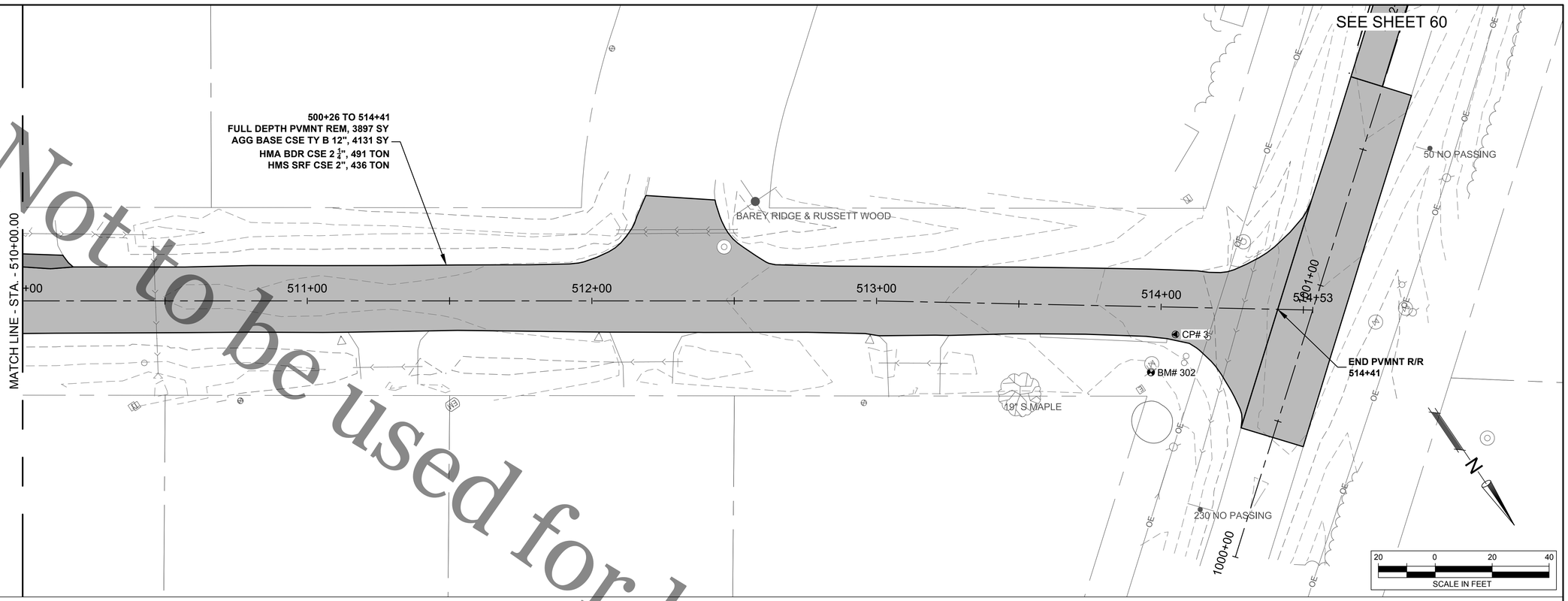
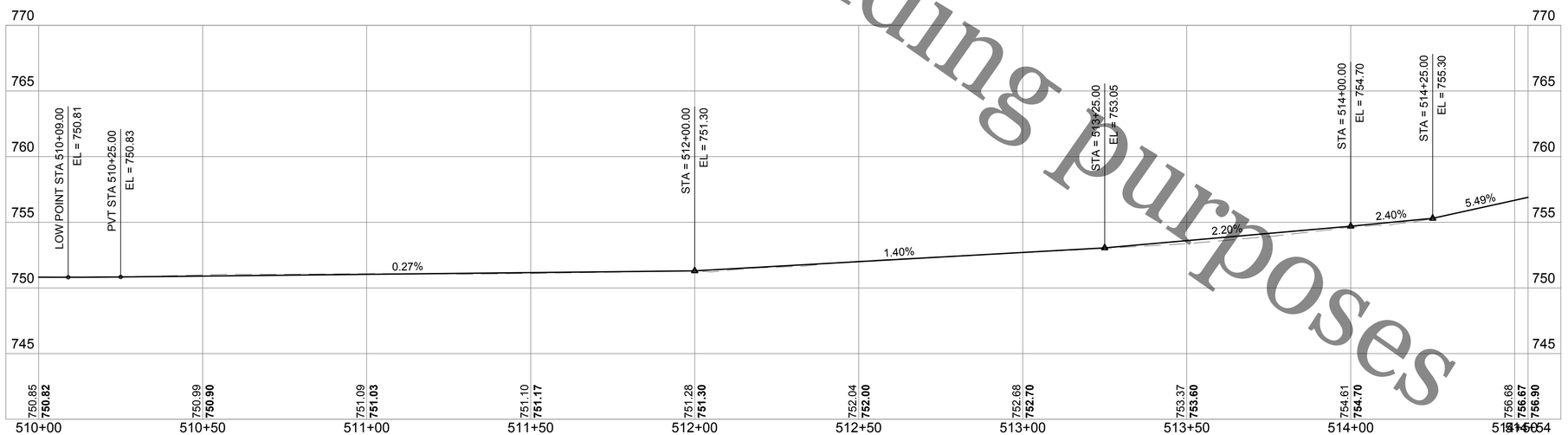
SEE SHEET 58

SEE SHEET 60




Rock River Water Reclamation District
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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**ROADWAY-BARLEY RIDGE TRL STA. 510+00.00 TO 514+54.07**

Sheet No. 59 OF 80

FOR BID

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SEE SHEET 59

SEE SHEET 61

MATCH LINE - STA. - 1004+00.00

19" S MAPLE

BM# 302

CP# 3

CP# 4

514+00

514+53

230 NO PASSING

50 NO PASSING

1000+00

1001+00

1002+00

1003+00

1004

**BEGIN PVMNT R/R**
**1000+44**

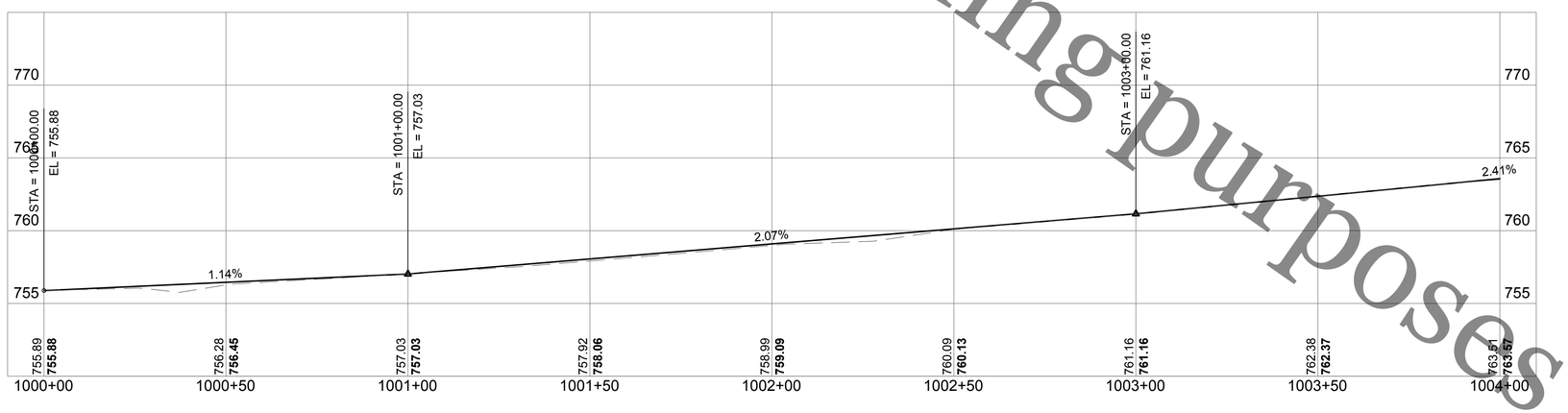
**1000+44 TO 1026+16**
**FULL DEPTH PVMNT REM, 3740 SY**
**AGG BASE CSE TY B 12", 4049 SY**
**HMA BDR CSE 2 ¼", 471 TON**
**HMA SRF CSE 2", 419 TON**

OE

X

N

20 0 20 40
SCALE IN FEET

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| ROCK RIVER WATER RECLAMATION DISTRICT<br>3501 KISHWAUKEE STREET<br>ROCKFORD, ILLINOIS 61109<br>(815) 387-7660 | CHERRY VALLEY PARALLEL FORCEMAIN<br>CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667 | ROADWAY- MILL RD STA. 1000+00.00 TO STA. 1004+00.00 |
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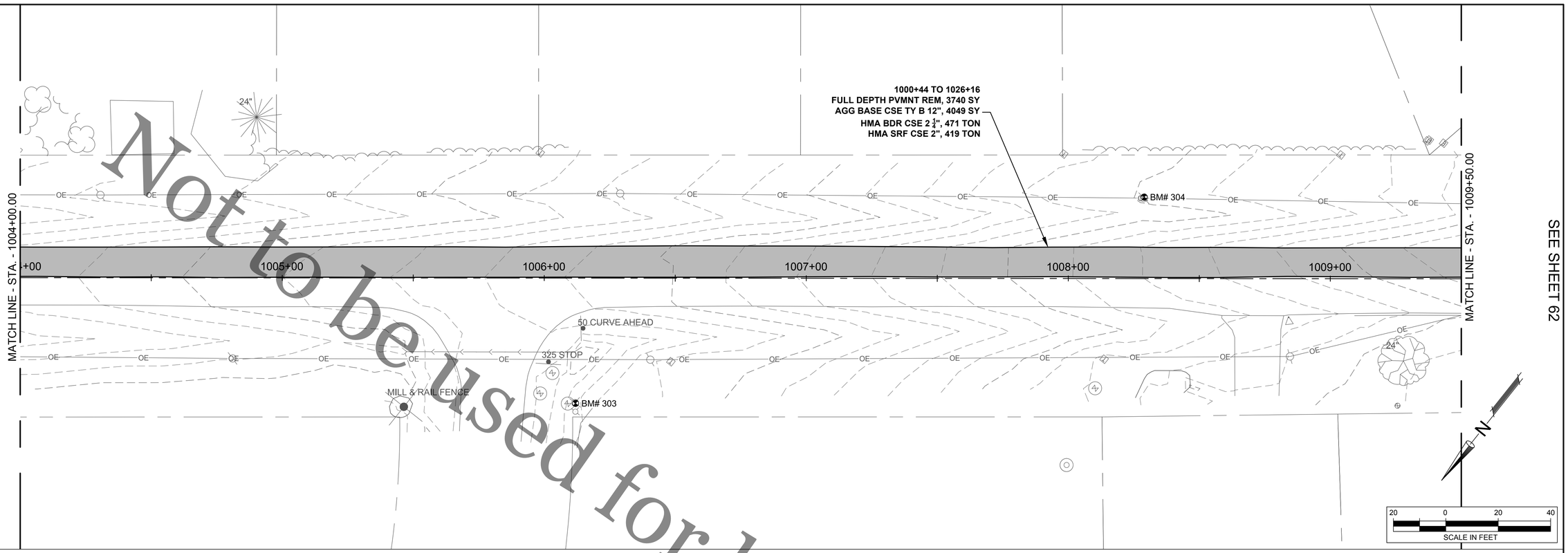
SEE SHEET 60

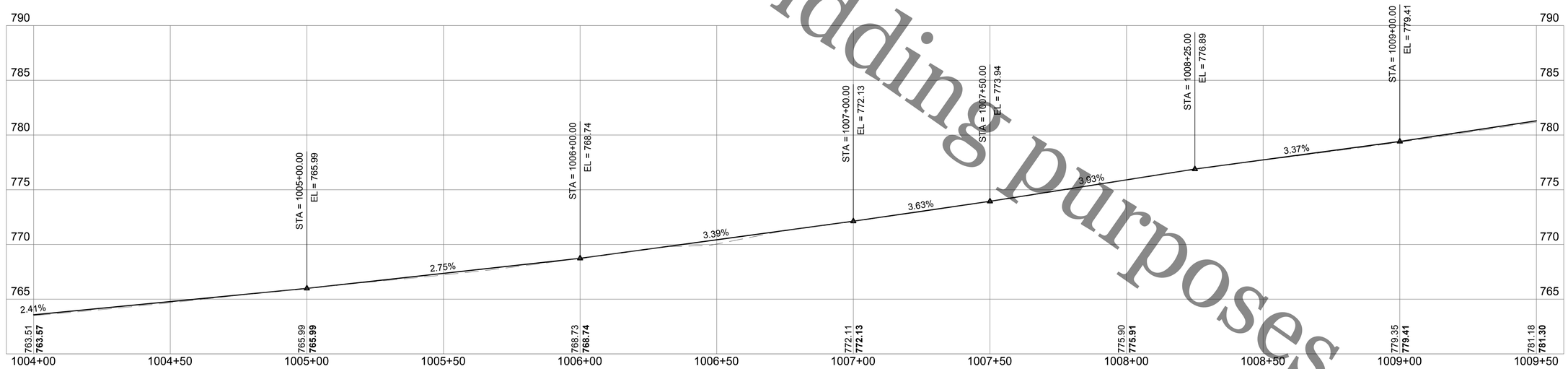
SEE SHEET 62

MATCH LINE - STA. - 1004+00.00

MATCH LINE - STA. - 1009+50.00

1000+44 TO 1026+16
FULL DEPTH PVMNT REM, 3740 SY
AGG BASE CSE TY B 12", 4049 SY
HMA BDR CSE 2 $\frac{1}{4}$", 471 TON
HMA SRF CSE 2", 419 TON

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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**ROADWAY- MILL RD STA. 1004+00.00 TO STA. 1009+50.00**

Sheet No.
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SEE SHEET 61

SEE SHEET 63

FULL DEPTH PVMNT REM, 63 SY
HMA BDR CSE 2 ¼", 8 TON
HMA SRF CSE 2", 7.1 TON

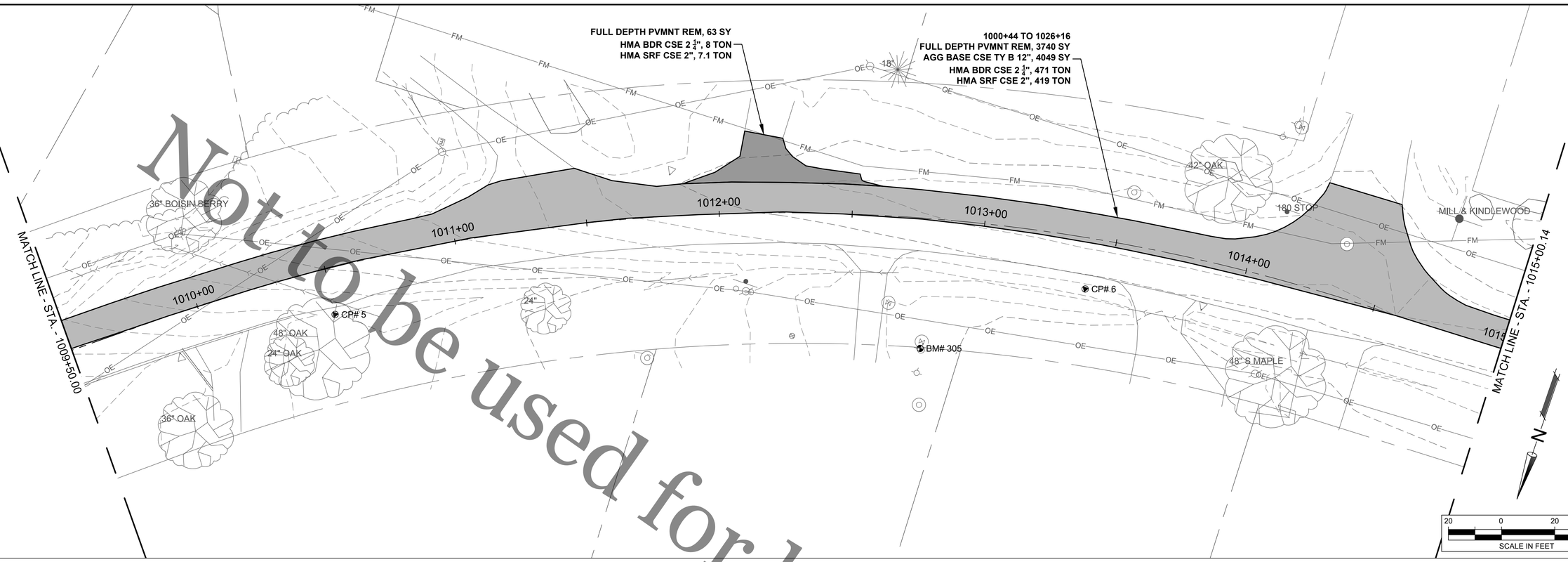
1000+44 TO 1026+16
FULL DEPTH PVMNT REM, 3740 SY
AGG BASE CSE TY B 12", 4049 SY
HMA BDR CSE 2 ¼", 471 TON
HMA SRF CSE 2", 419 TON

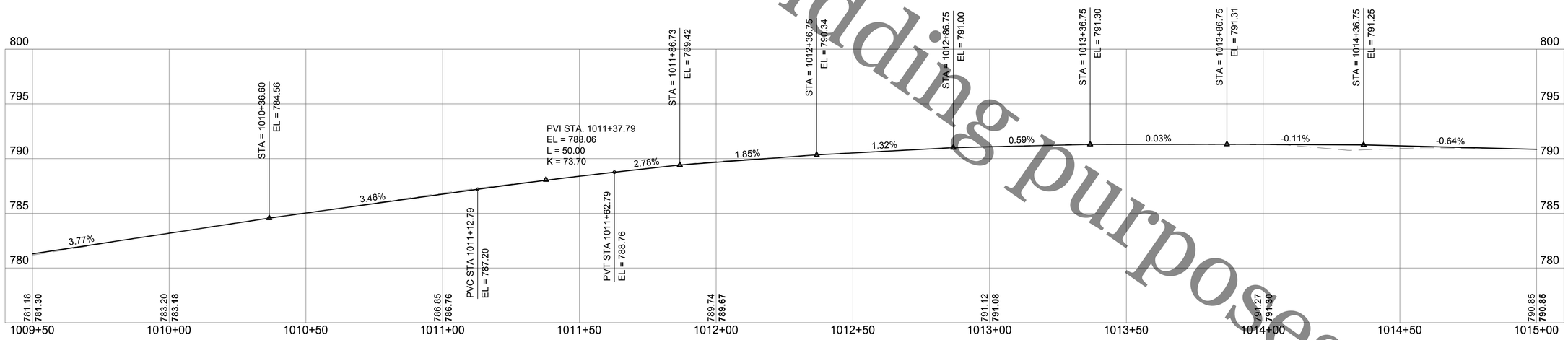
MATCH LINE - STA. - 1009+50.00

MATCH LINE - STA. - 1015+00.14

1010+00 1011+00 1012+00 1013+00 1014+00

36" BOISIN BERRY
48" OAK
24" OAK
36" OAK
24"
18"
42" OAK
180 STOP
MILL & KINDLEWOOD
48" S MAPLE
CP# 5
CP# 6
BM# 305

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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**ROADWAY- MILL RD STA. 1009+50.00 TO STA. 1015+00.00**

Sheet No.
62 OF 80

FOR BID

Date
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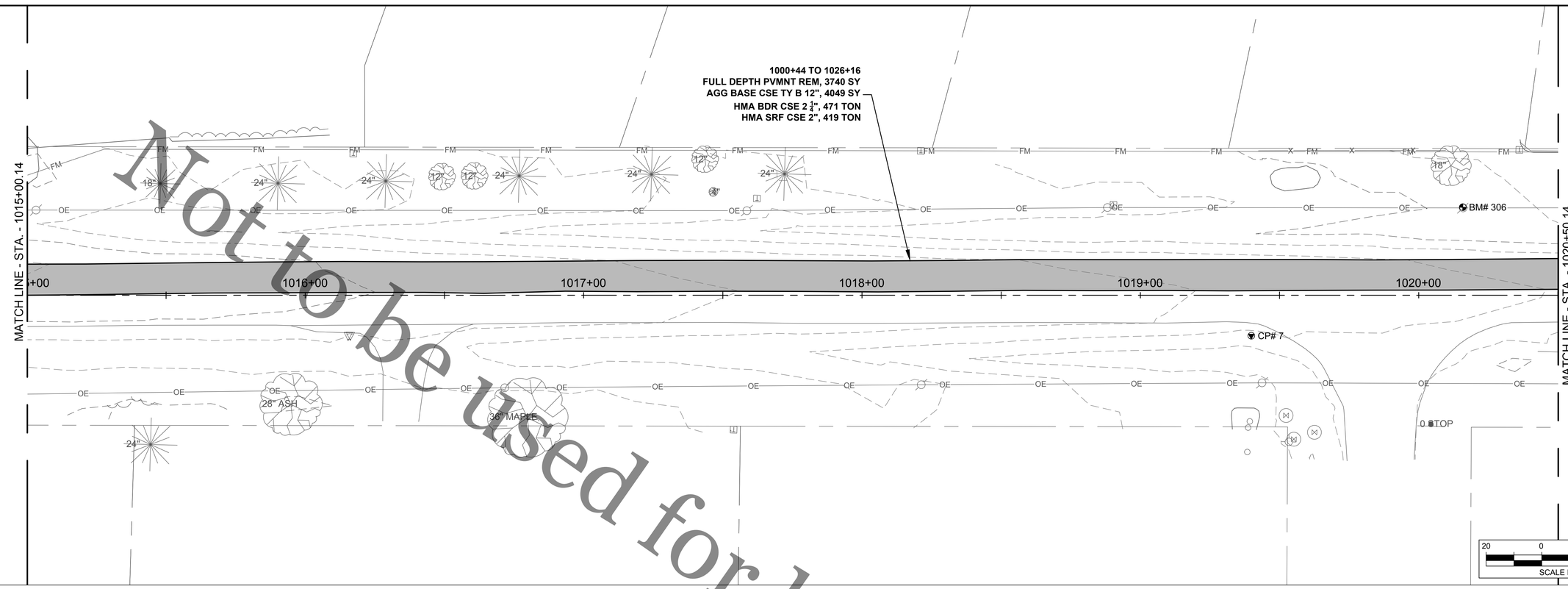
SEE SHEET 62

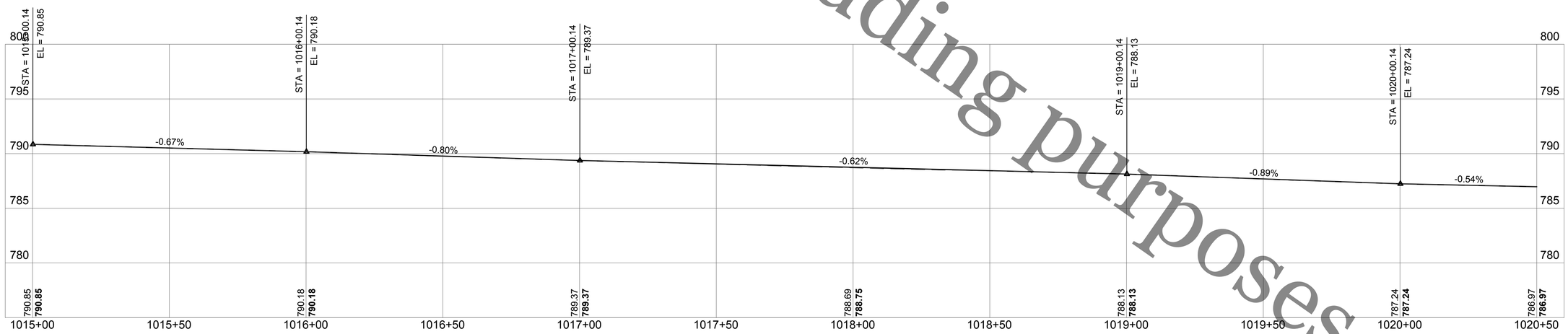
MATCH LINE - STA. - 1015+00.14

1000+44 TO 1026+16
FULL DEPTH PVMNT REM, 3740 SY
AGG BASE CSE TY B 12", 4049 SY
HMA BDR CSE 2 ¼", 471 TON
HMA SRF CSE 2", 419 TON




MATCH LINE - STA. - 1020+50.14

SEE SHEET 64

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Rock River Water Reclamation District
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CHERRY VALLEY PARALLEL FORCEMAIN
CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667

ROADWAY- MILL RD STA. 1015+00.00 TO STA. 1020+50.00

Sheet No. 63 OF 80

FOR BID

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file: I:\District Projects\Cherry Valley Parallel FM 1420\Engineering\Dwgs\Roadway.dwg

SEE SHEET 63

MATCH LINE - STA. - 1020+50.14

1000+44 TO 1026+16
FULL DEPTH PVMNT REM, 3740 SY
AGG BASE CSE TY B 12", 4049 SY
HMA BDR CSE 2 1/4", 471 TON
HMA SRF CSE 2", 419 TON

270 SPEED LIMIT

270 WEIGHT RESTRICTED

1021+00 1022+00 1023+00 1024+00 1025+00 1025+52

END PVMNT R/R
1026+16

30 STOP AHEAD

12" MAPLE 18" MAPLE 12" MAPLE 15"

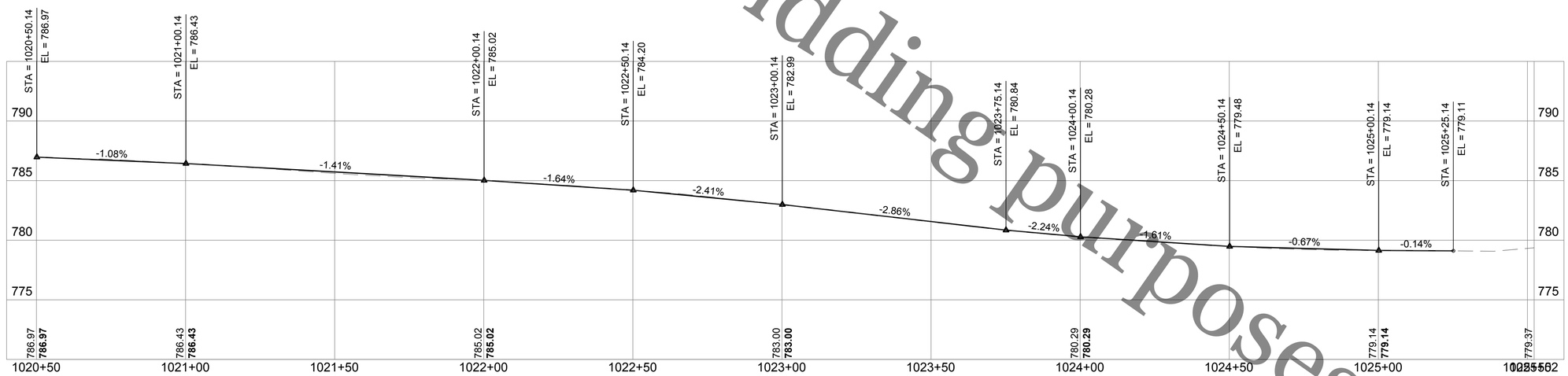
R/R PCC CURB & GUTTER
84 LF

BM# 307

30 STOP

CP# 8

SCALE IN FEET 20 0 20 40

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Rock River Water Reclamation District
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CHERRY VALLEY PARALLEL FORCEMAIN
CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667

ROADWAY- MILL RD STA. 1020+50.00 TO STA. 1025+52.25

FOR BID

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Date
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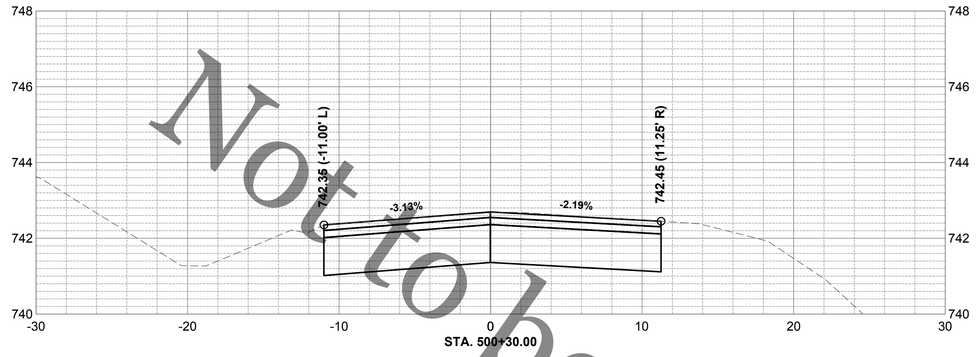


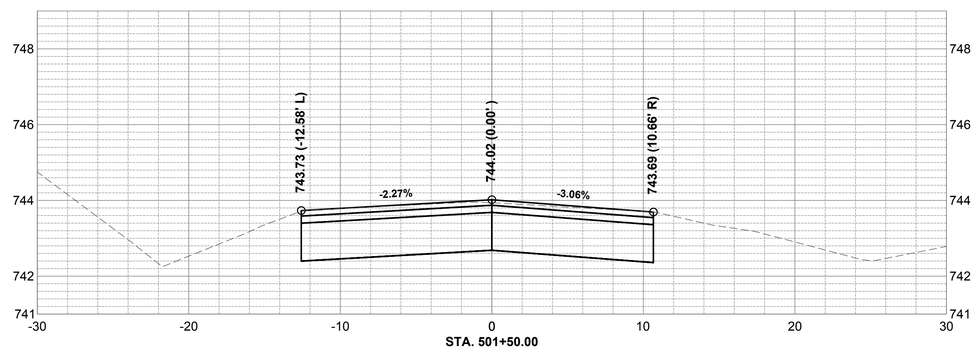


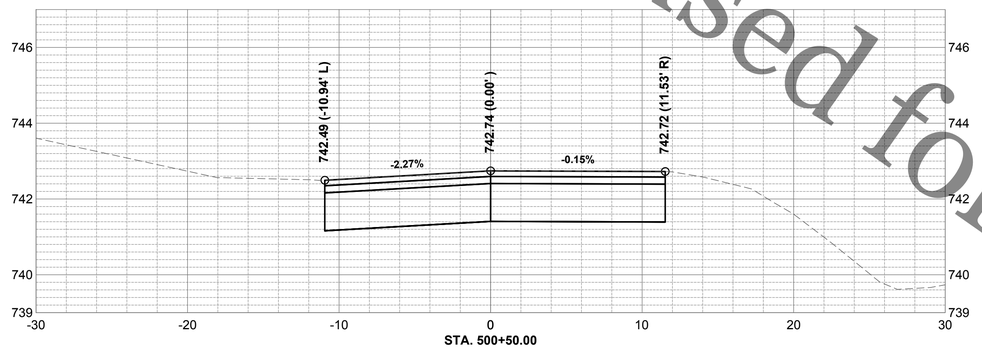


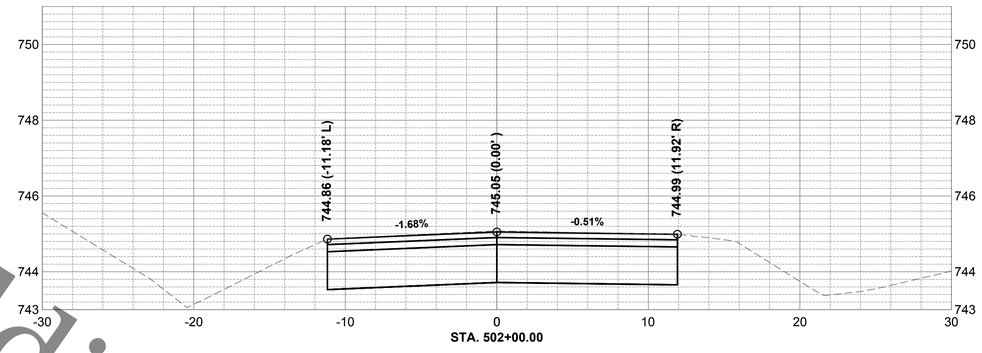


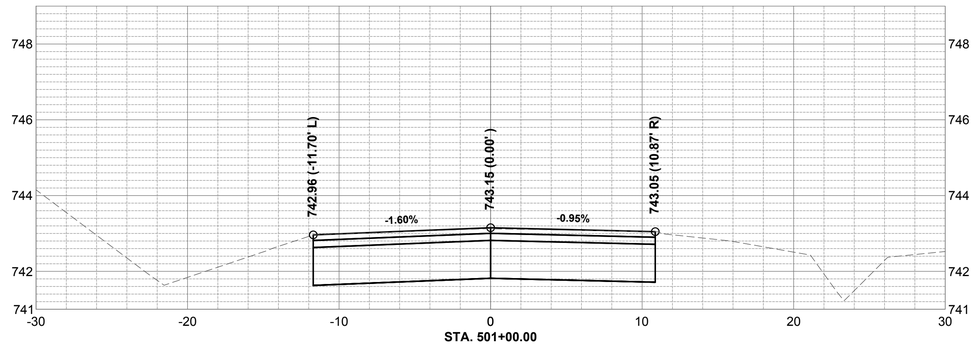


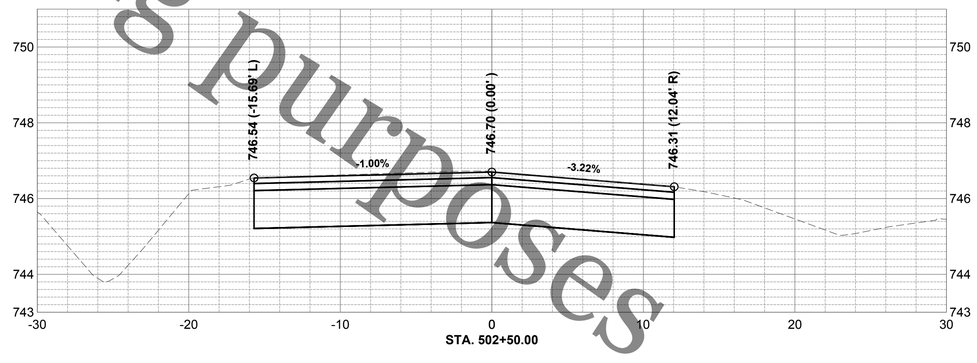


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CHERRY VALLEY PARALLEL FORCEMAIN
CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667

ROADWAY- SECTIONS- BARLEY RIDGE TRL 01

Sheet No.
65 OF 80

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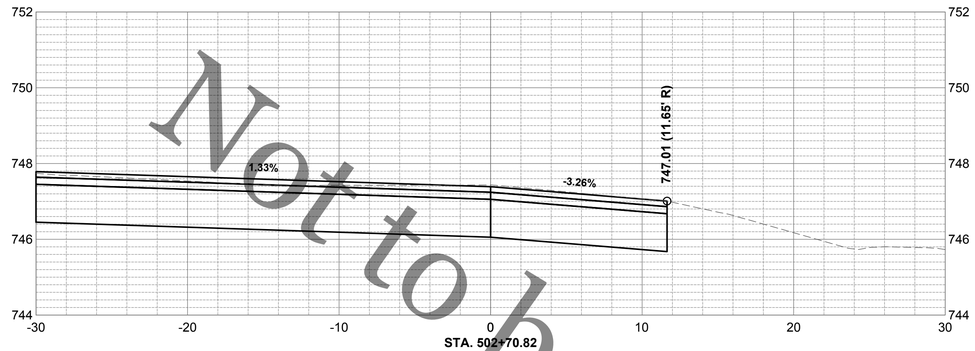
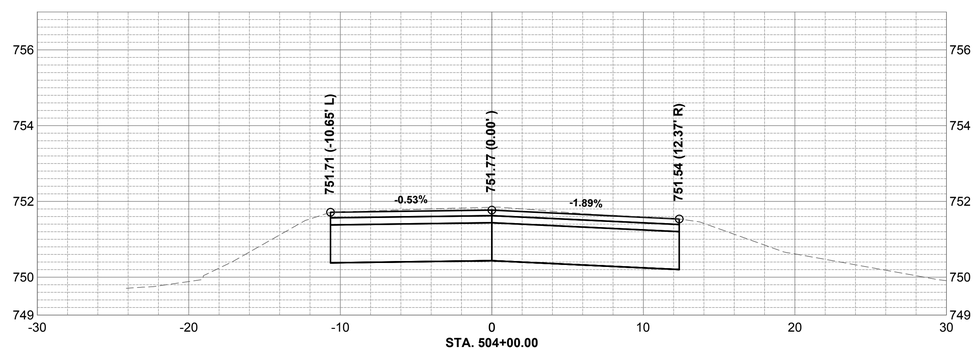
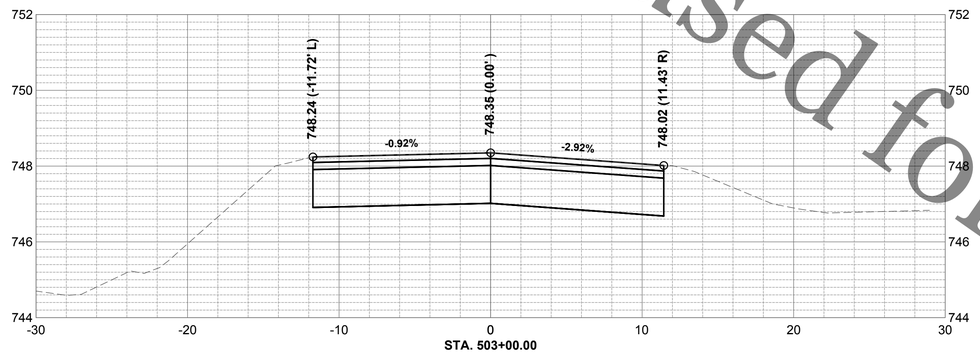



STA. 502+70.82




STA. 504+00.00

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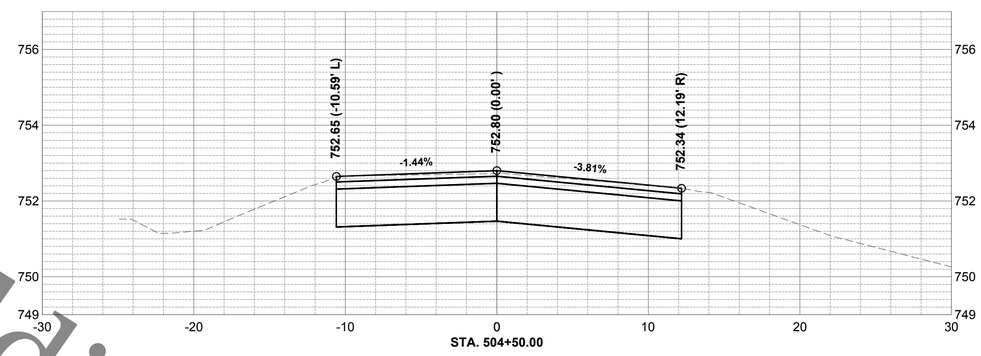


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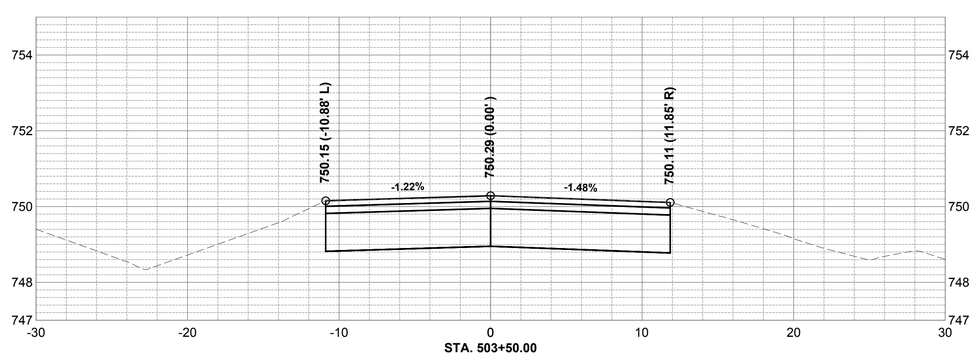


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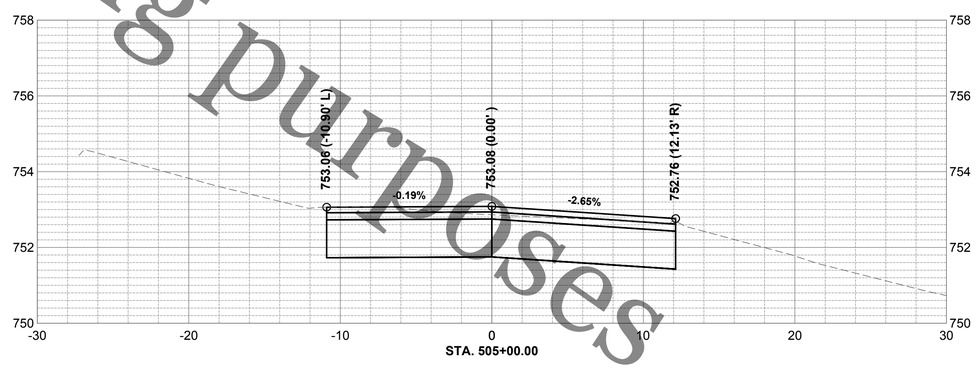


STA. 505+00.00

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Rock River Water Reclamation District

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**CHERRY VALLEY PARALLEL FORCEMAIN**
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**ROADWAY- SECTIONS- BARLEY RIDGE TRL 02**

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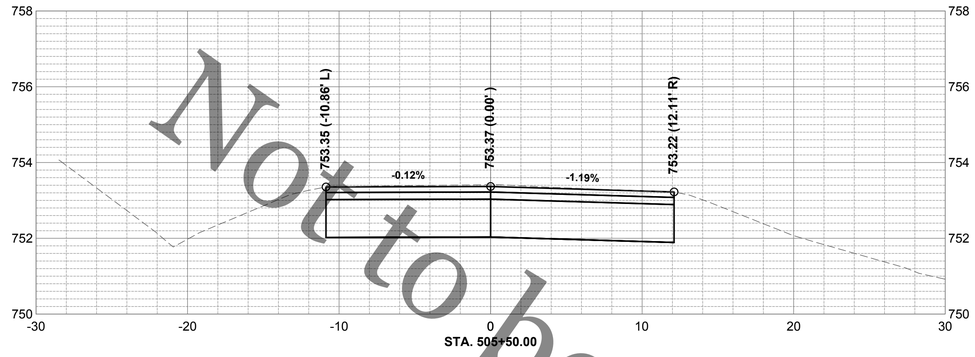


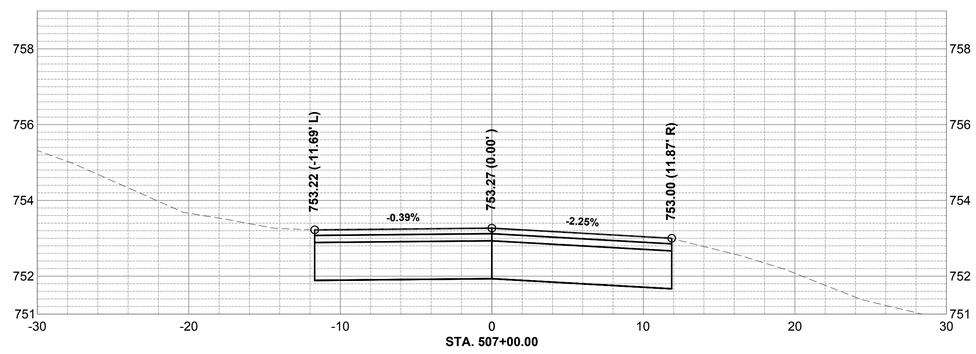


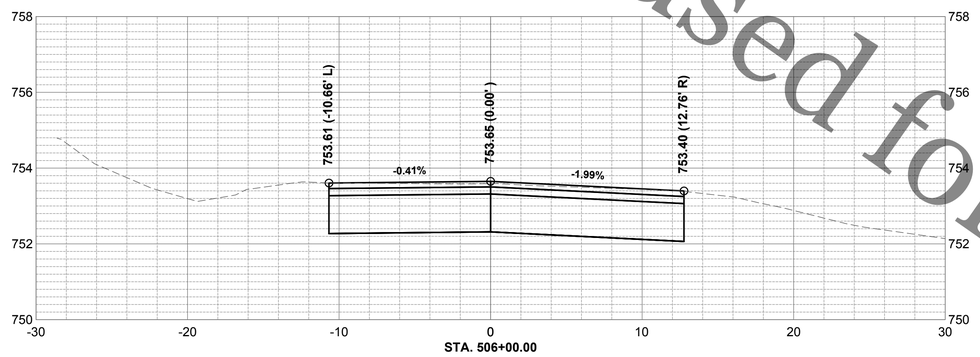


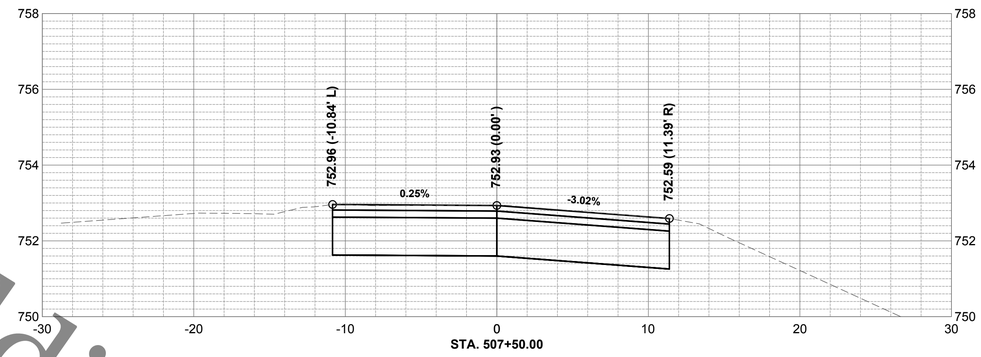


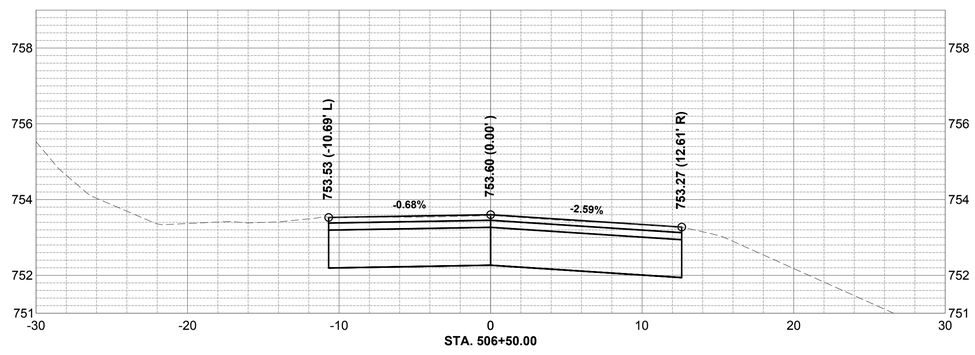


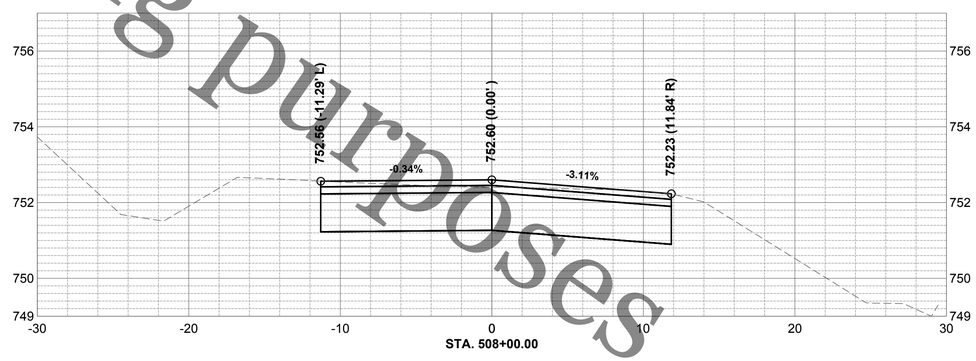


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RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

| No. | DATE | REVISION | INT. |
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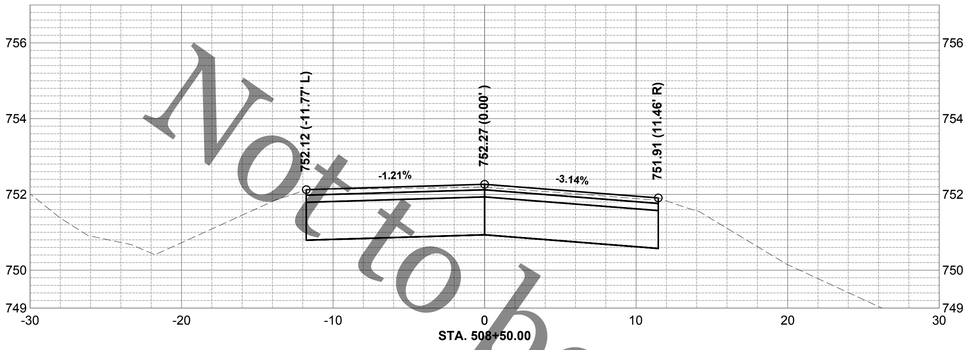
**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

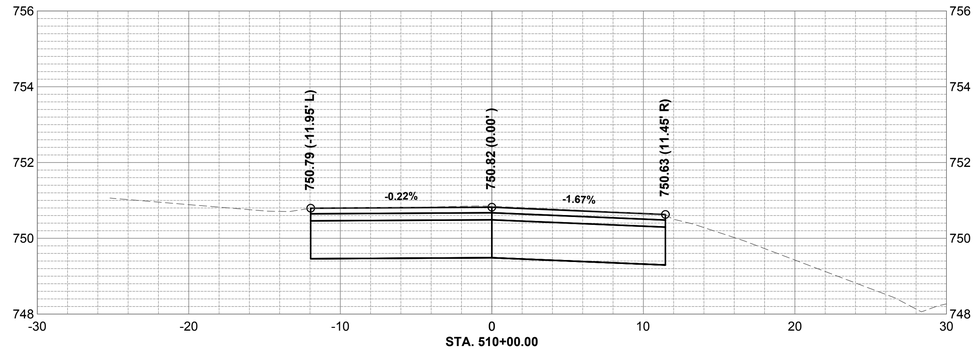
**ROADWAY- SECTIONS- BARLEY RIDGE TRL 03**

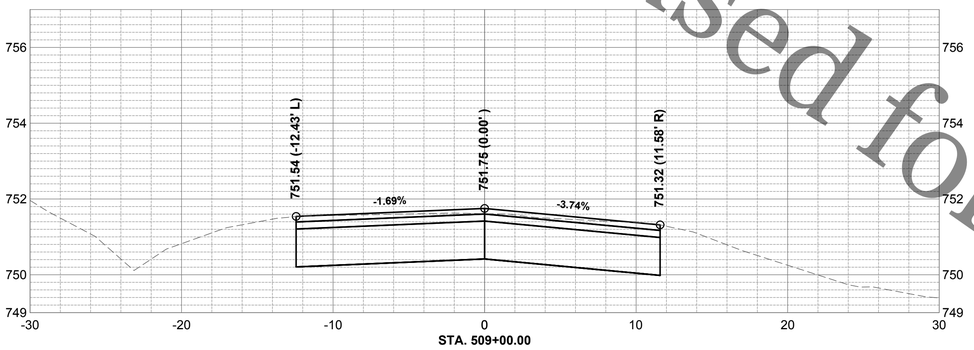
Sheet No.
67 OF 80

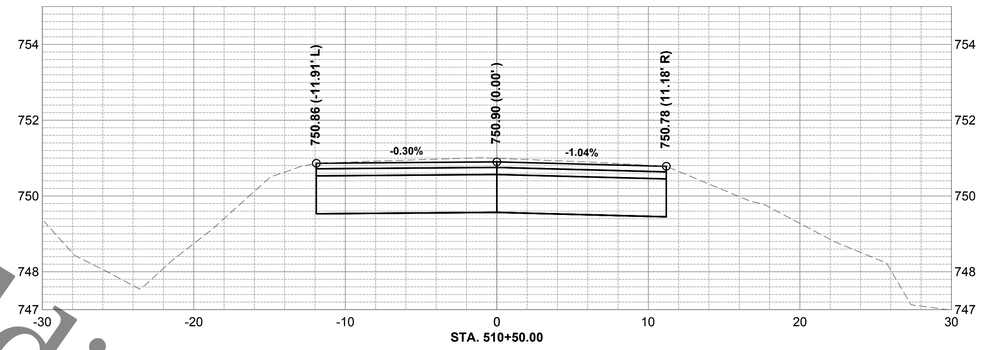
FOR BID

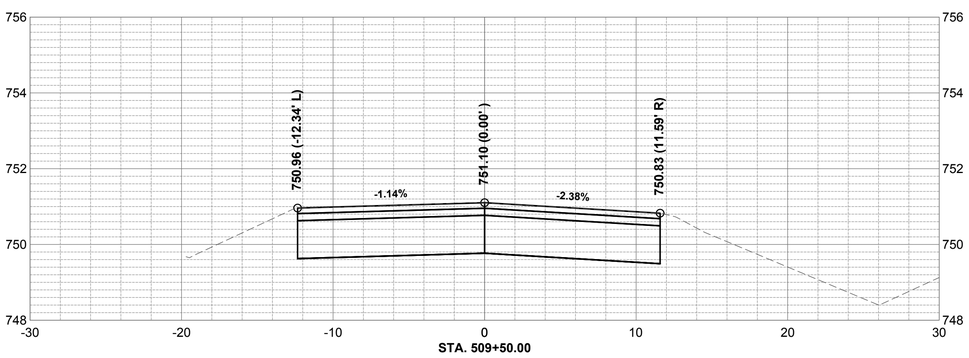
Date
3/3/2020

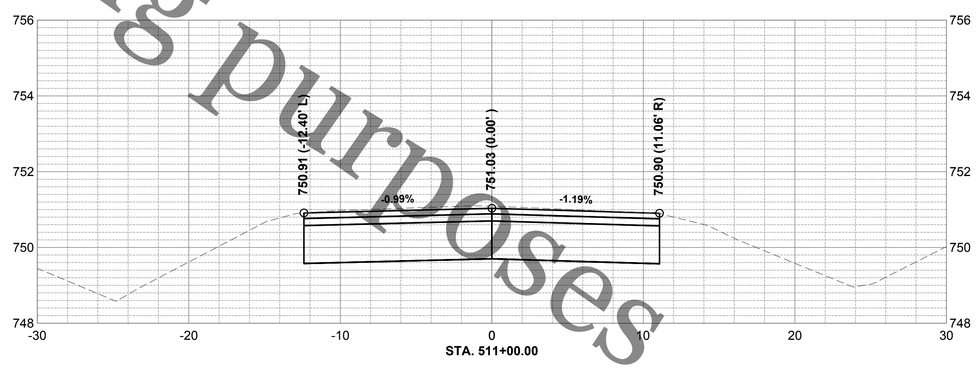
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ROCK RIVER WATER
RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

| No. | DATE | REVISION | INT. |
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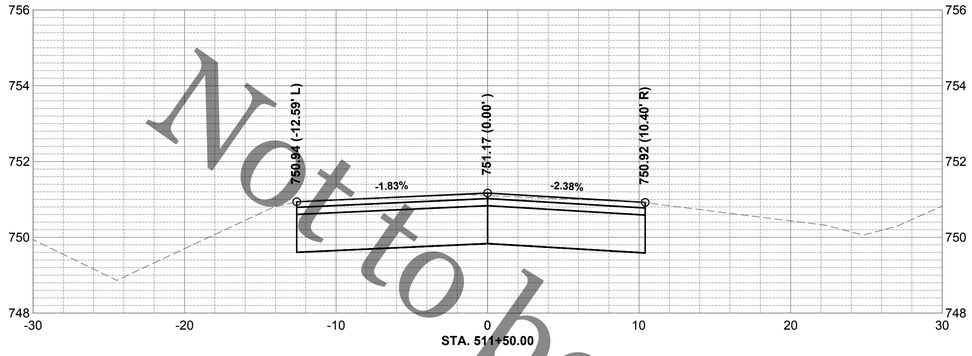
**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

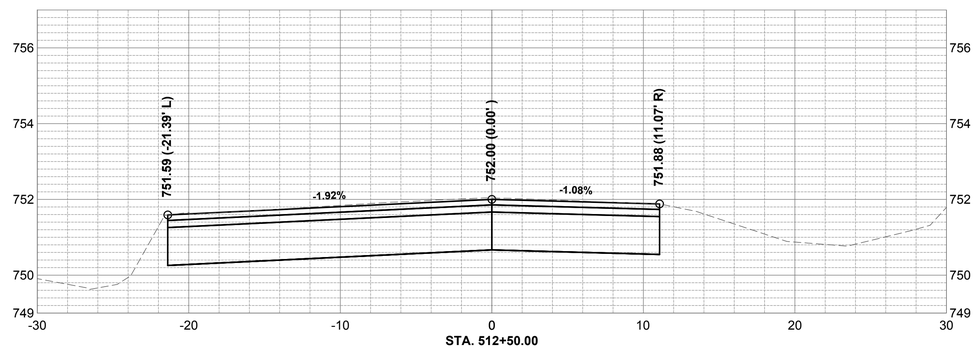
**ROADWAY- SECTIONS- BARLEY RIDGE TRL 04**

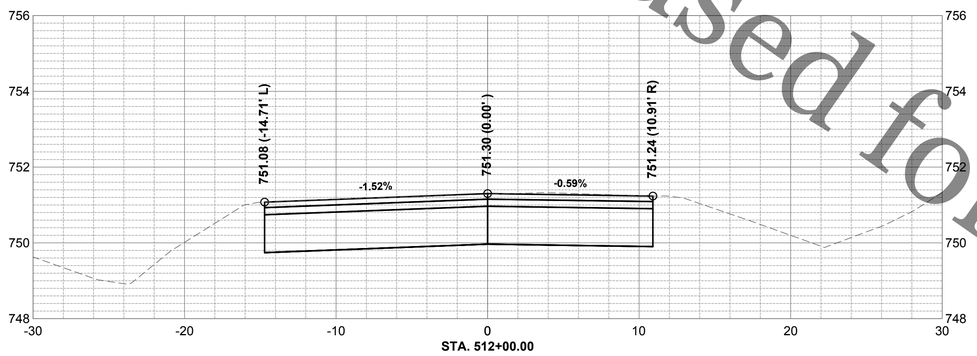
Sheet No. 68 OF 80

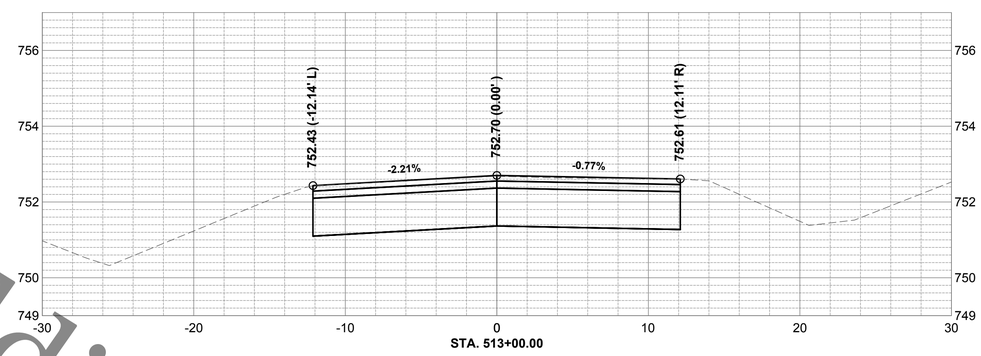
FOR BID

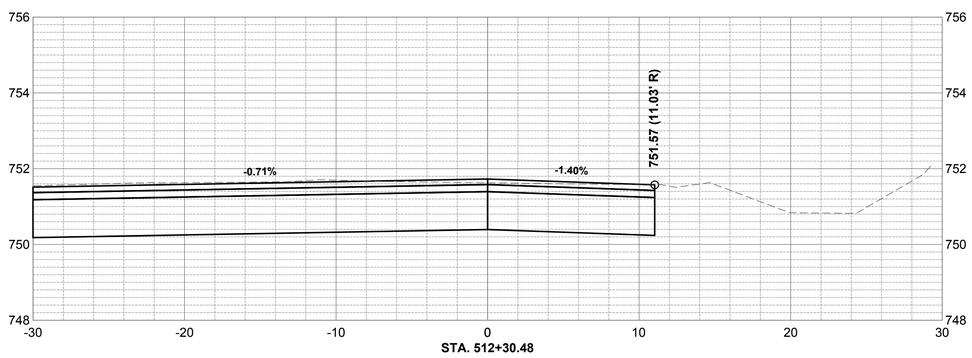
Date 3/3/2020

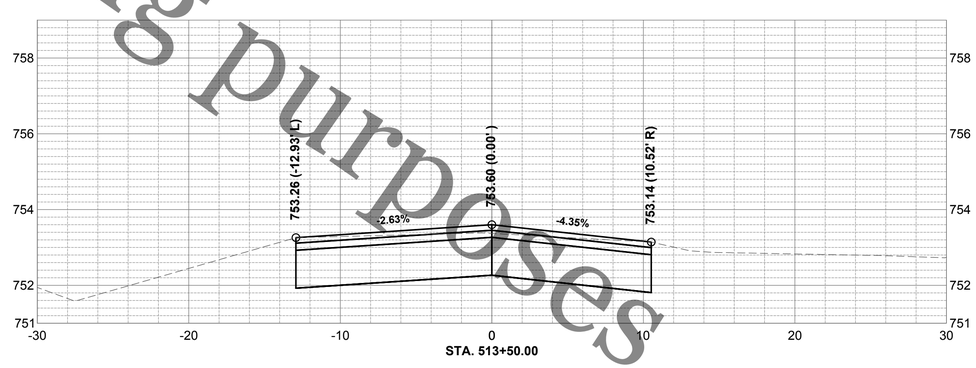
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ROCK RIVER WATER
RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

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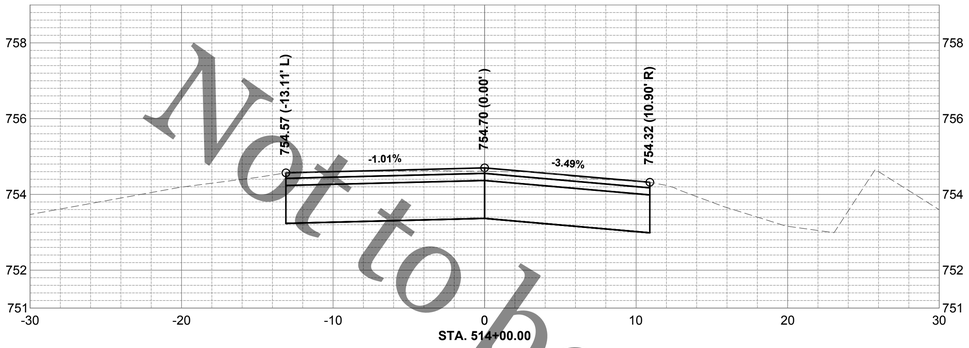
**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

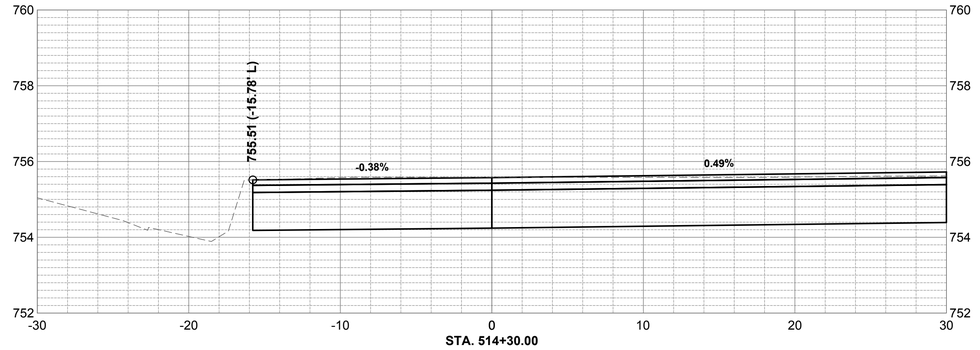
**ROADWAY- SECTIONS- BARLEY RIDGE TRL 05**

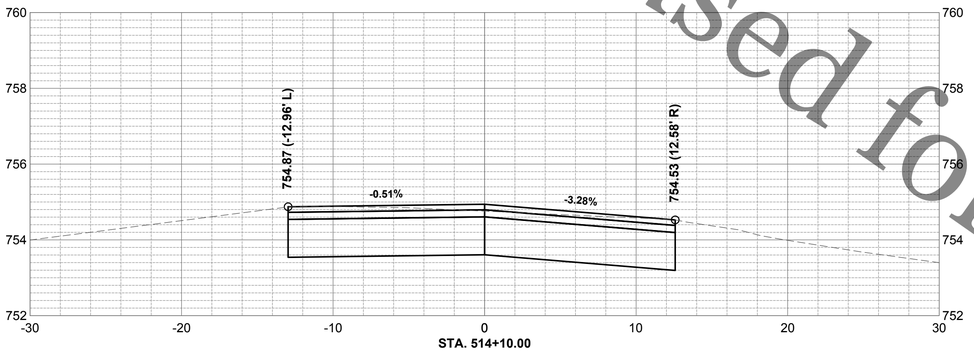
Sheet No. 69 OF 80

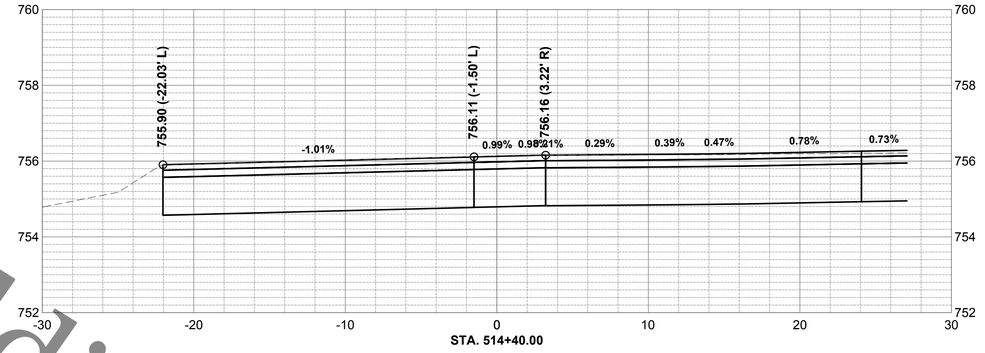
FOR BID

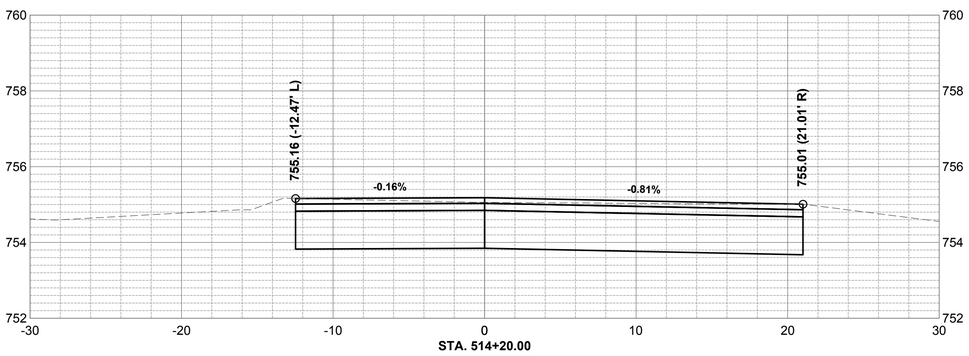
Date 3/3/2020

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ROCK RIVER WATER
RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

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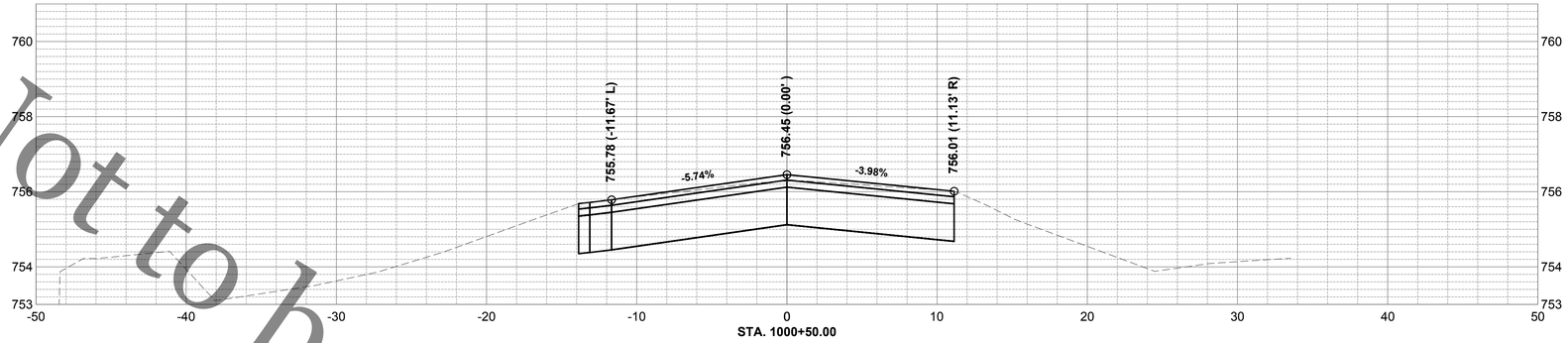
**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

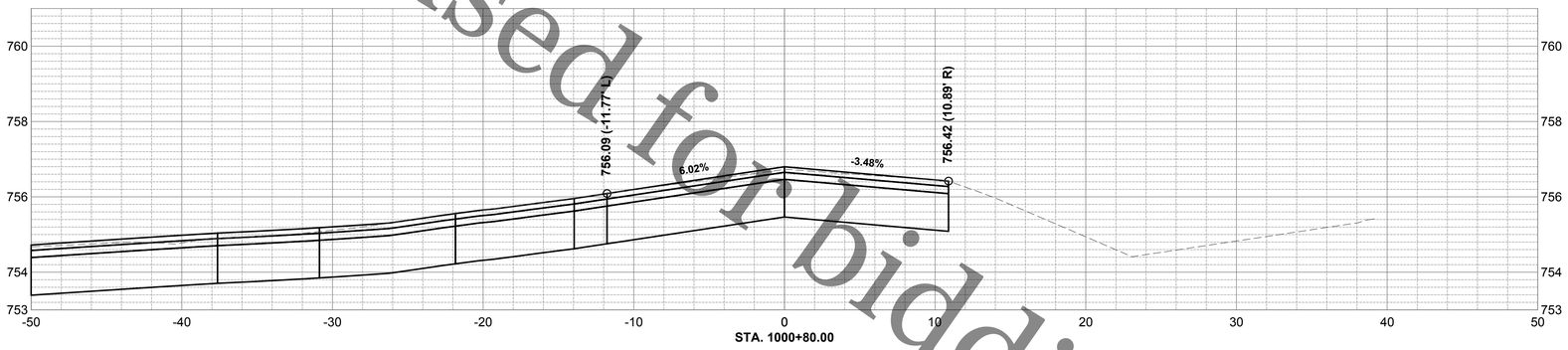
**ROADWAY- SECTIONS- BARLEY RIDGE TRL 06**

Sheet No. 70 OF 80

FOR BID

Date 3/3/2020

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Rock River Water Reclamation District
ROCK RIVER WATER
RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

| No. | DATE | REVISION | INT. |
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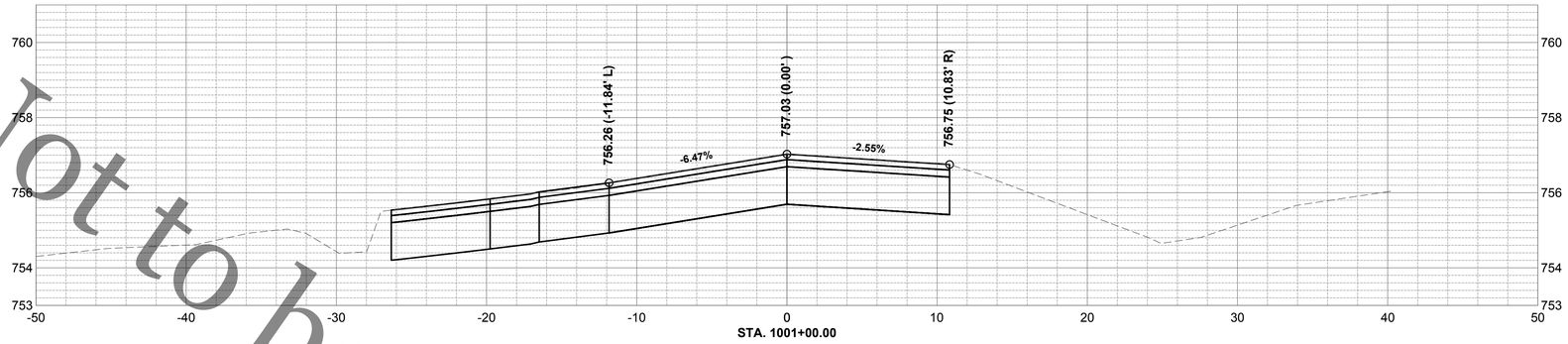
CHERRY VALLEY PARALLEL FORCEMAIN
CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667

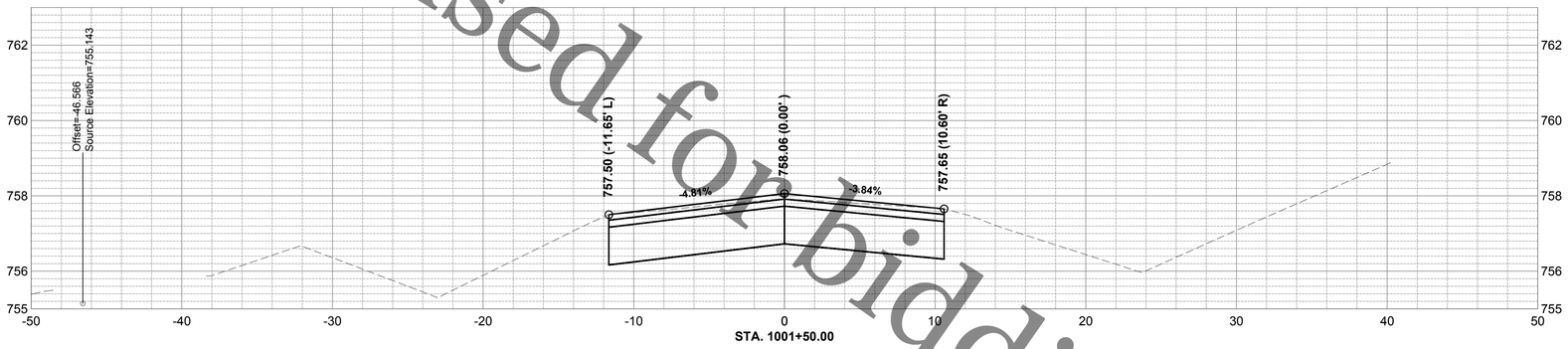
ROADWAY- SECTIONS- MILL RD 01

FOR BID

Sheet No.
71 OF 80

Date
3/3/2020

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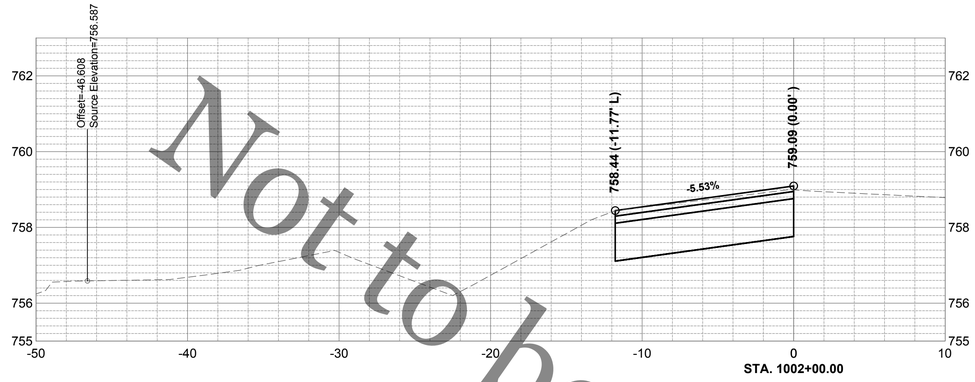
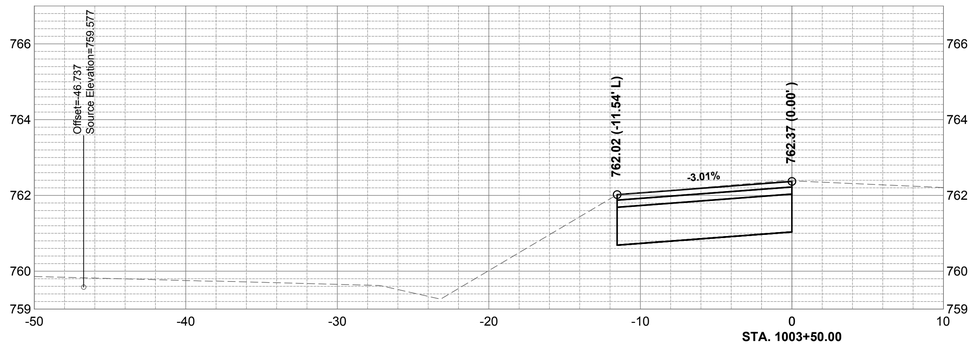
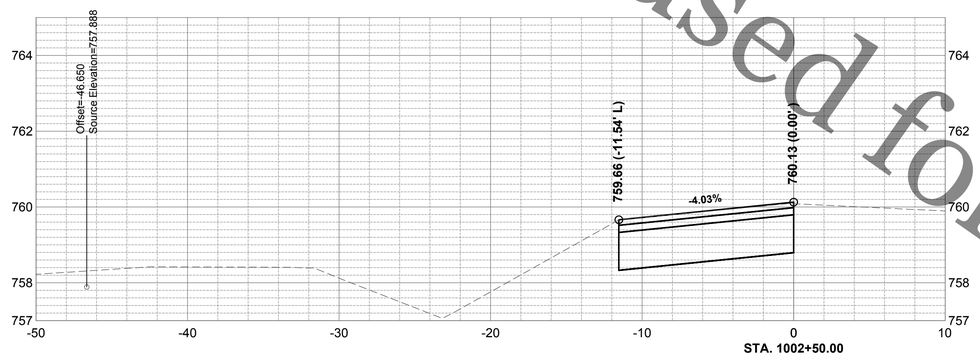
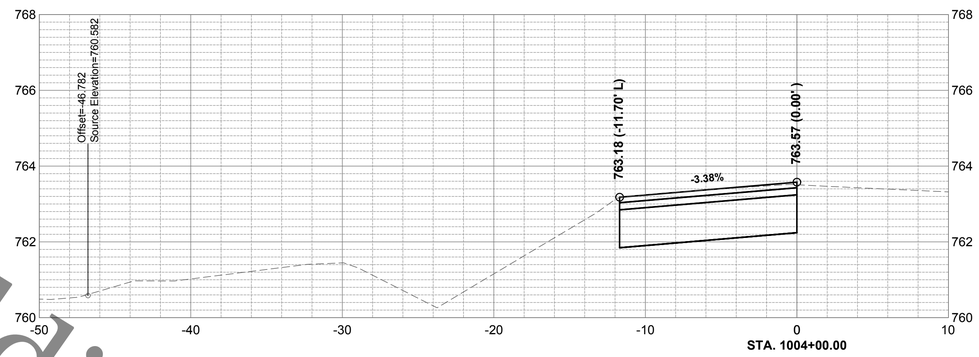
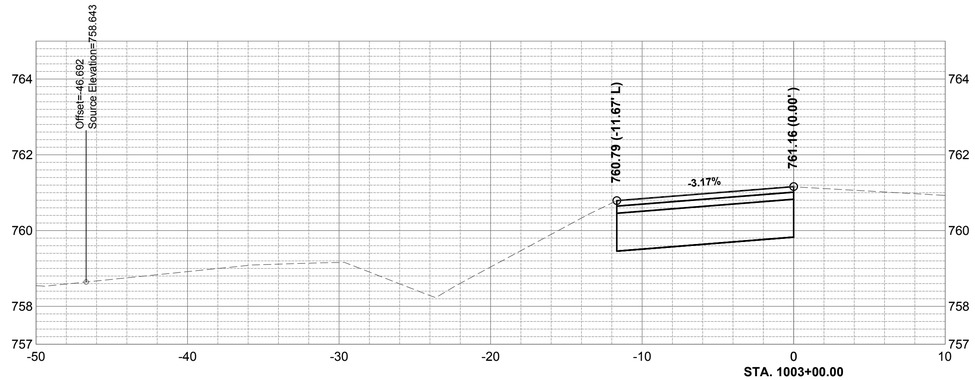
| Rock River Water Reclamation District | ROCK RIVER WATER RECLAMATION DISTRICT<br>3501 KISHWAUKEE STREET<br>ROCKFORD, ILLINOIS 61109<br>(815) 387-7660 | No. / DATE / REVISION / INT. | CHERRY VALLEY PARALLEL FORCEMAIN<br>CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667 | ROADWAY- SECTIONS- MILL RD 02 | Sheet No.<br>72 OF 80 |
| | | | | FOR BID | Date<br>3/3/2020 |

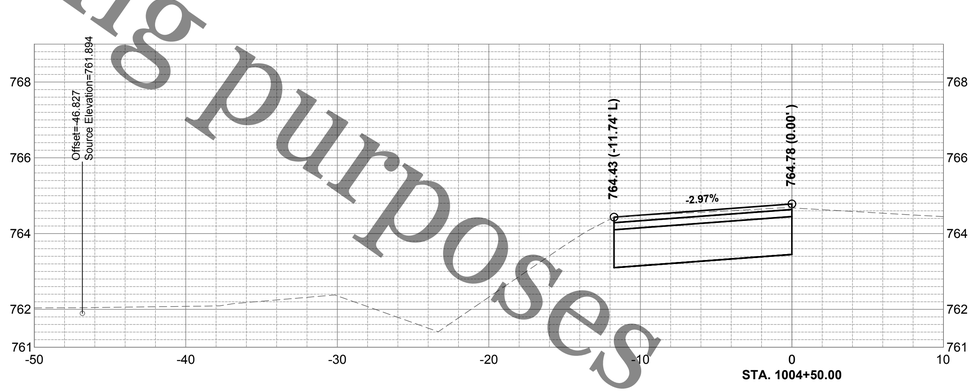
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ROCK RIVER WATER
RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

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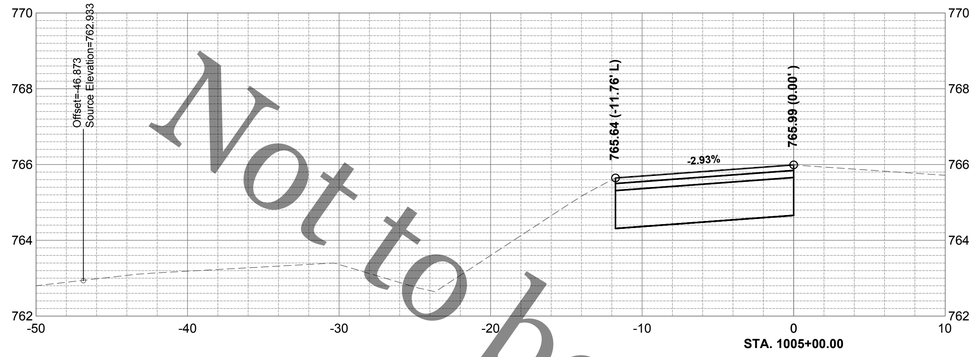
**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

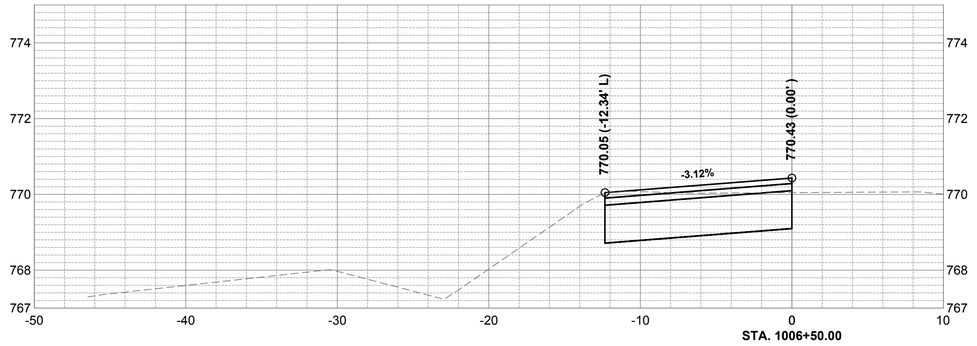
**ROADWAY- SECTIONS- MILL RD 03**

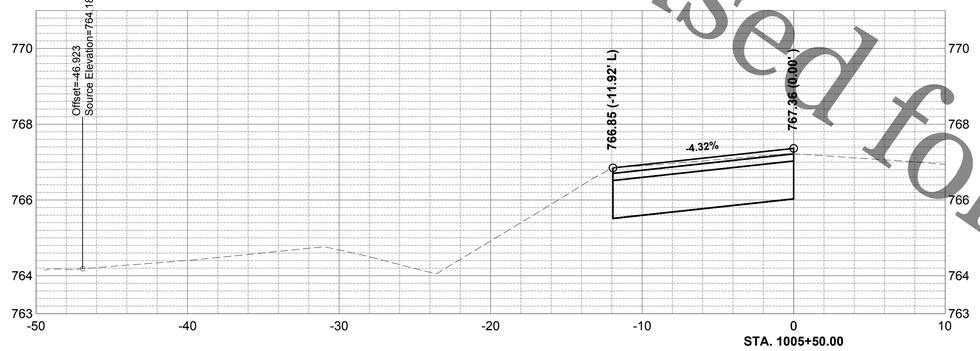
Sheet No.
73 OF 80

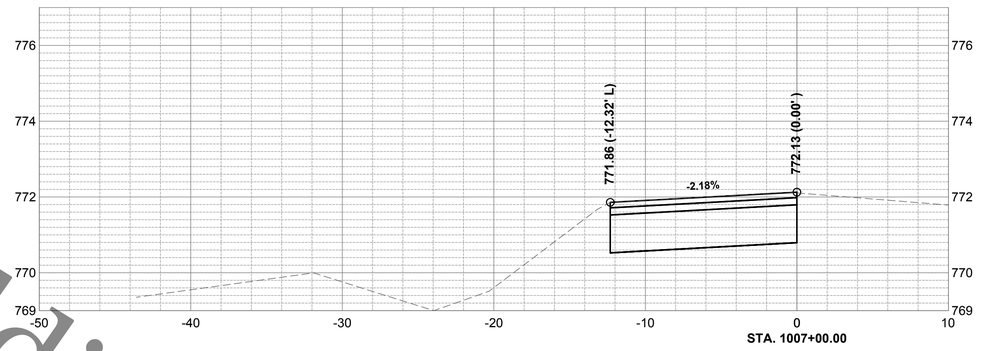
FOR BID

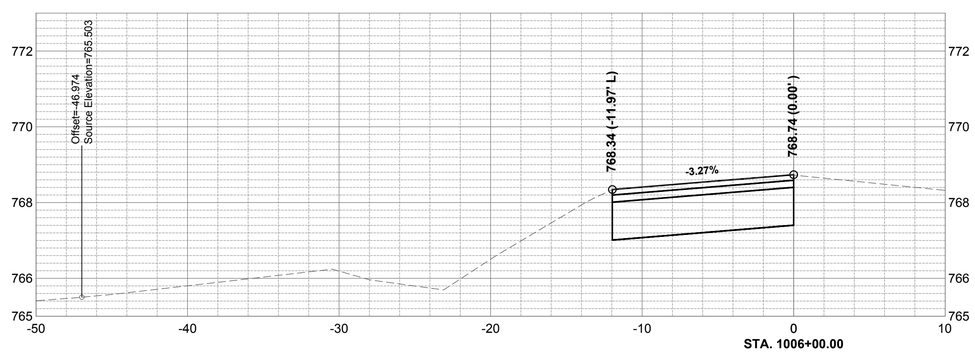
Date
3/3/2020

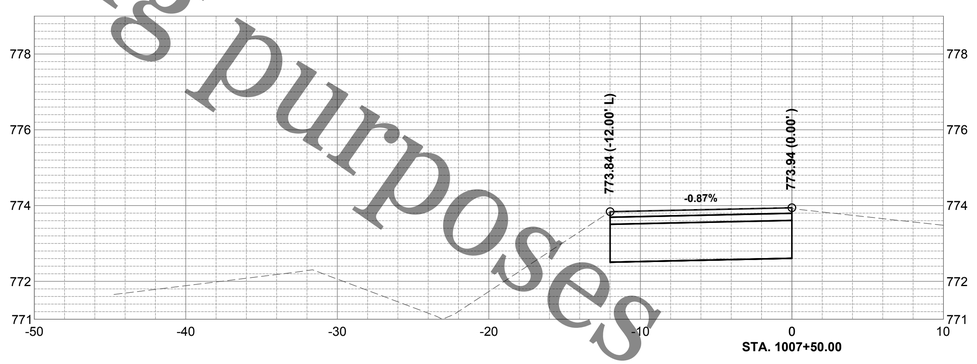
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Rock River Water Reclamation District

ROCK RIVER WATER
RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

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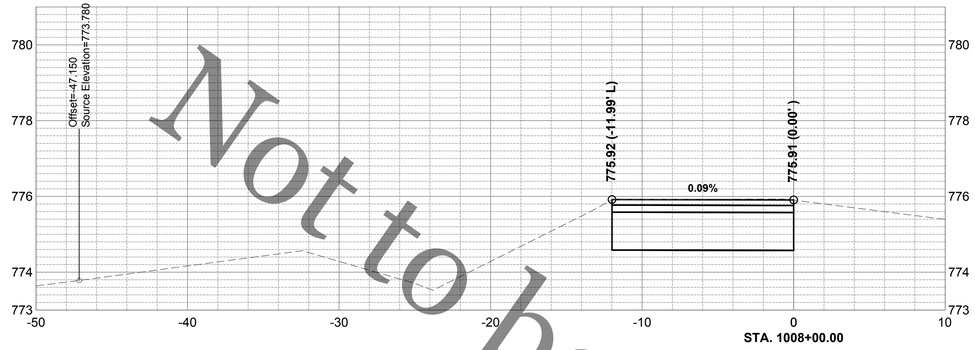
**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

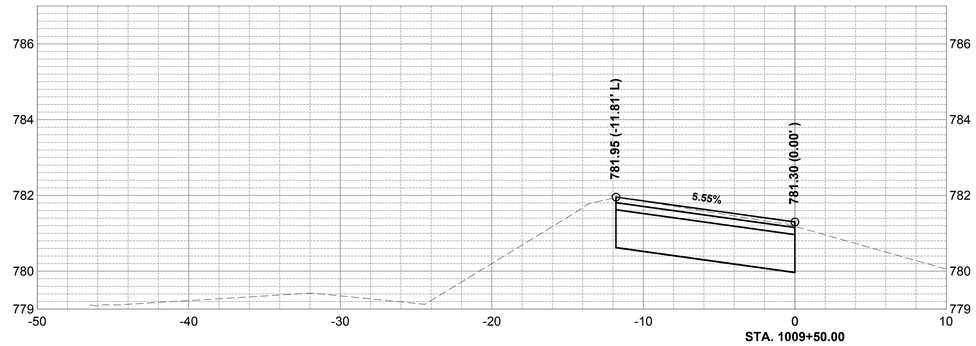
**ROADWAY- SECTIONS- MILL RD 04**

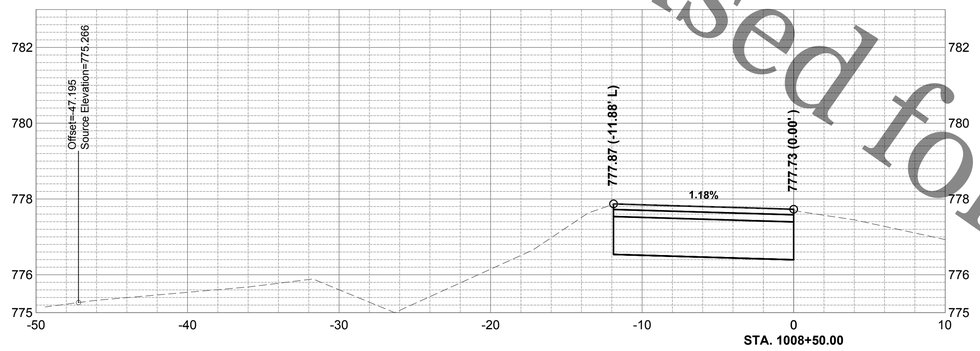
Sheet No. 74 OF 80

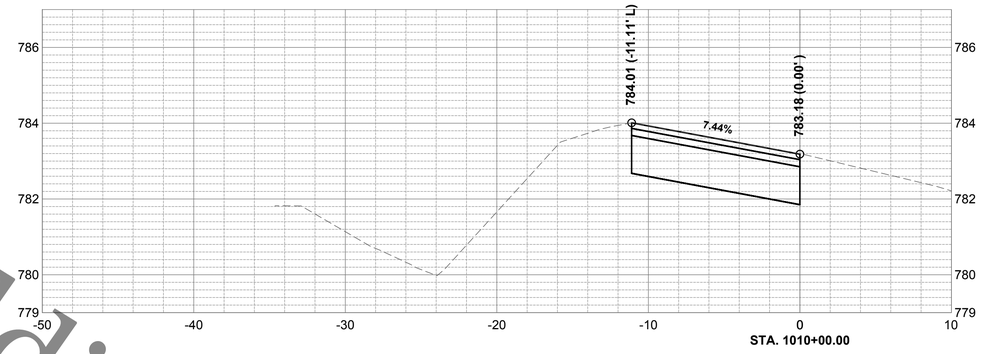
FOR BID

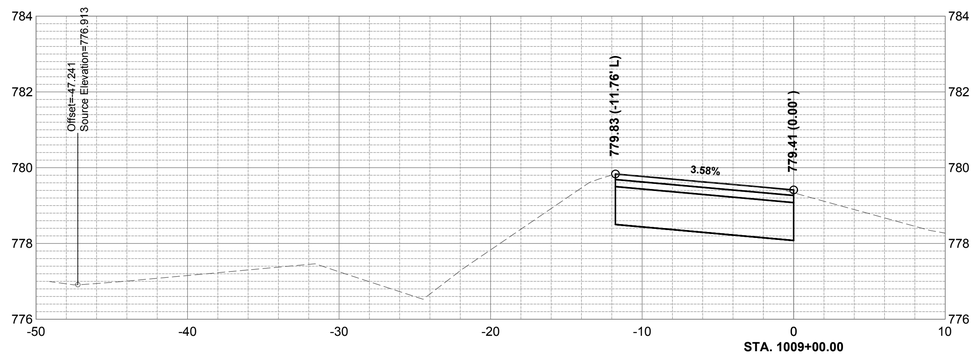
Date 3/3/2020

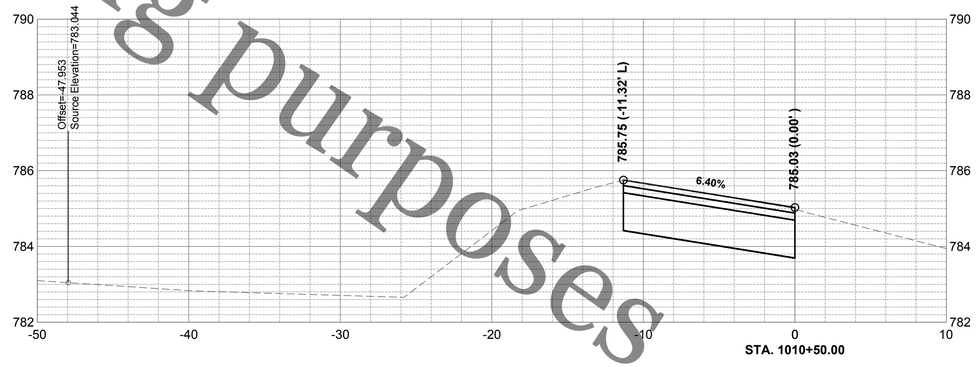
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ROCK RIVER WATER
RECLAMATION DISTRICT
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(815) 387-7660

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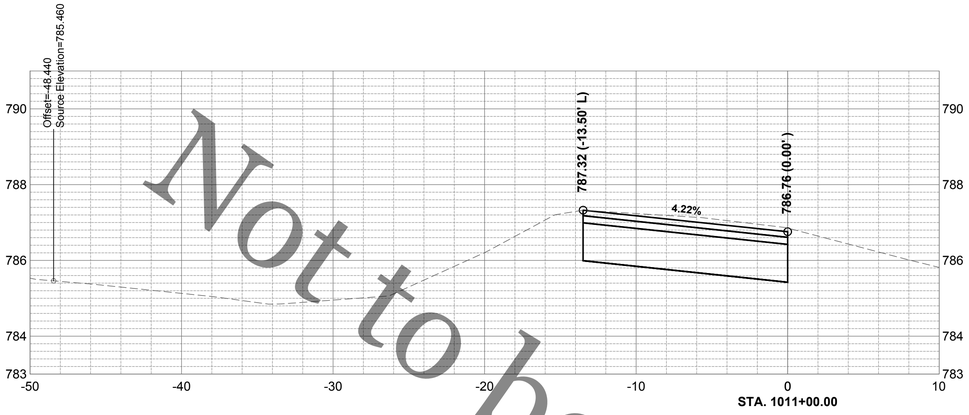
**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

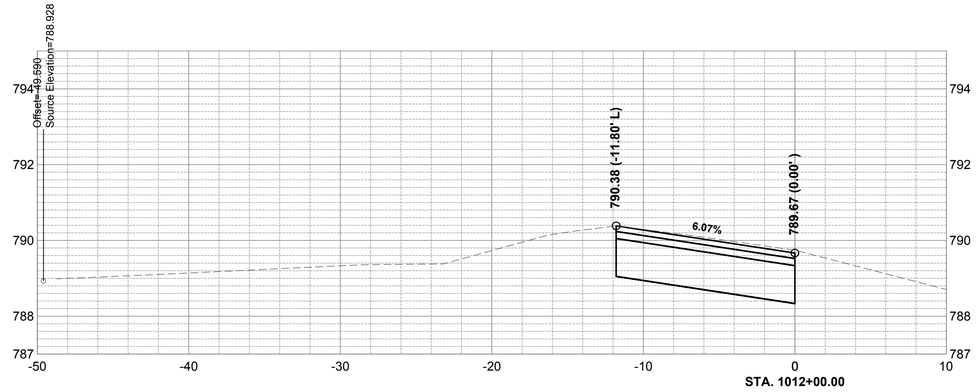
**ROADWAY- SECTIONS- MILL RD 05**

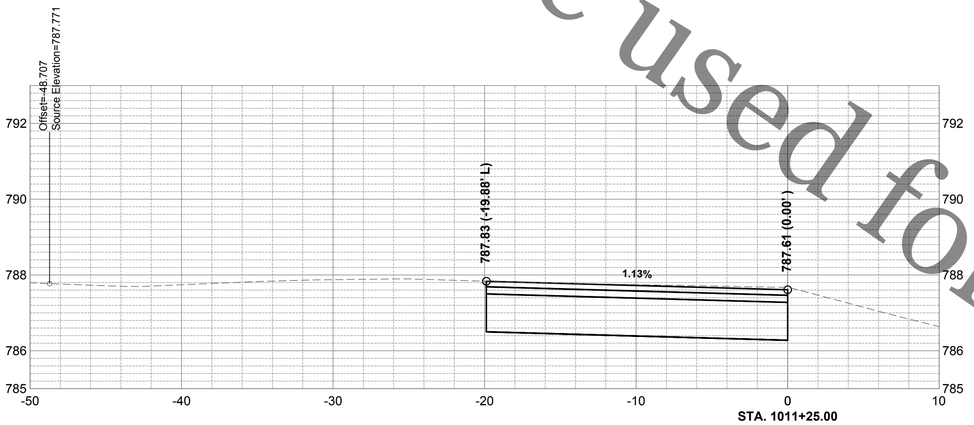
Sheet No.
75 OF 80

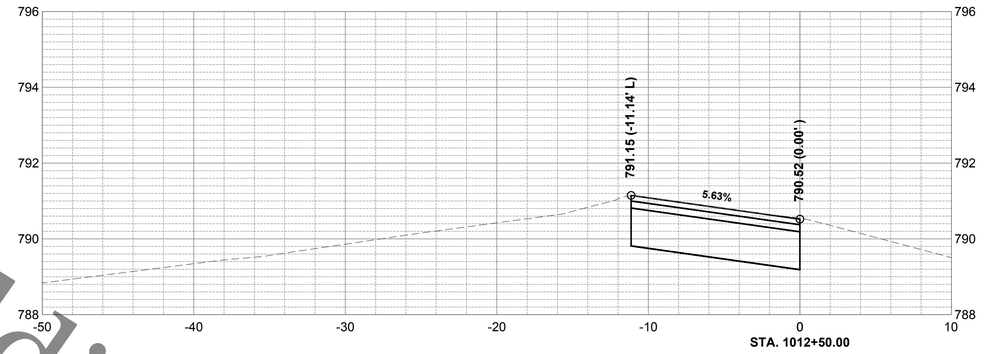
FOR BID

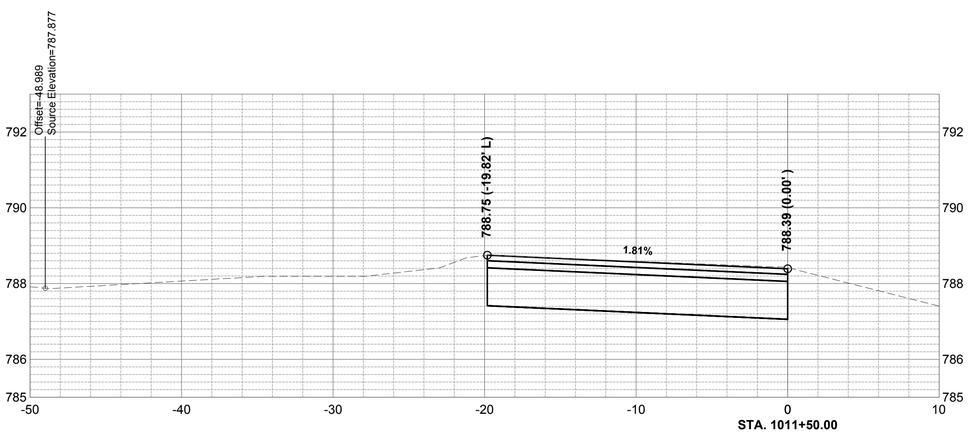
Date
3/3/2020

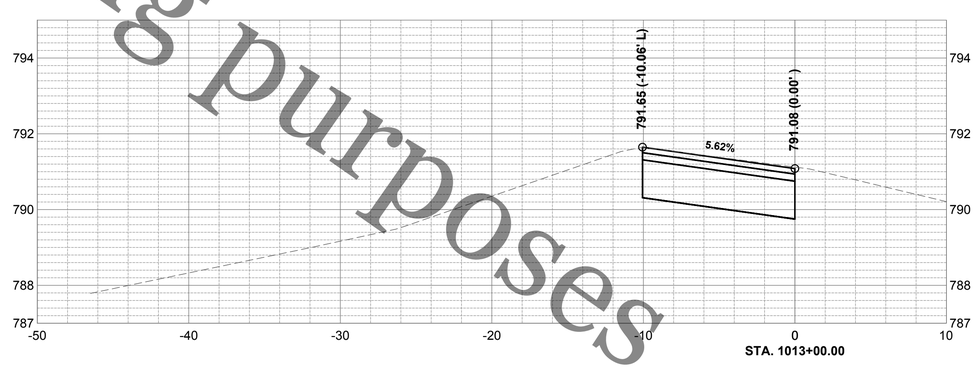
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ROCK RIVER WATER
RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

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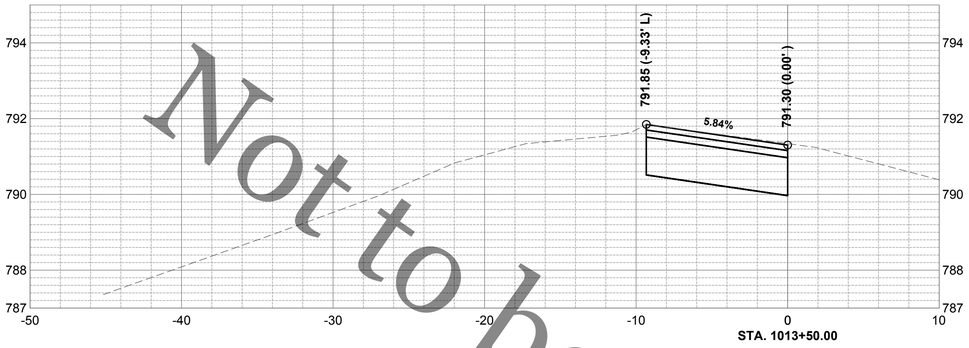
**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

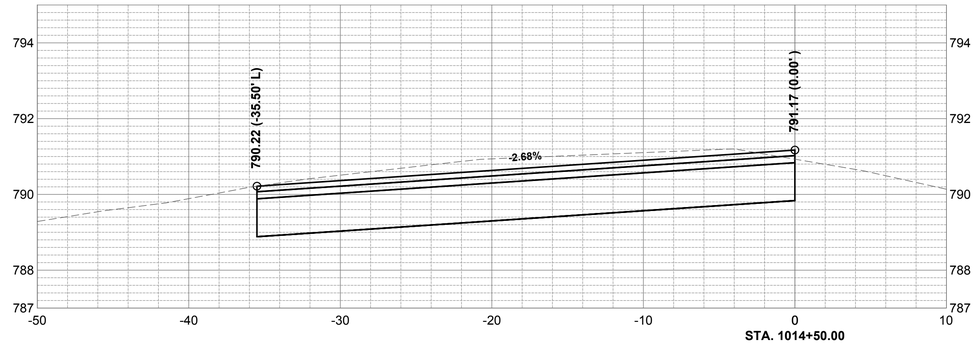
**ROADWAY- SECTIONS- MILL RD 06**

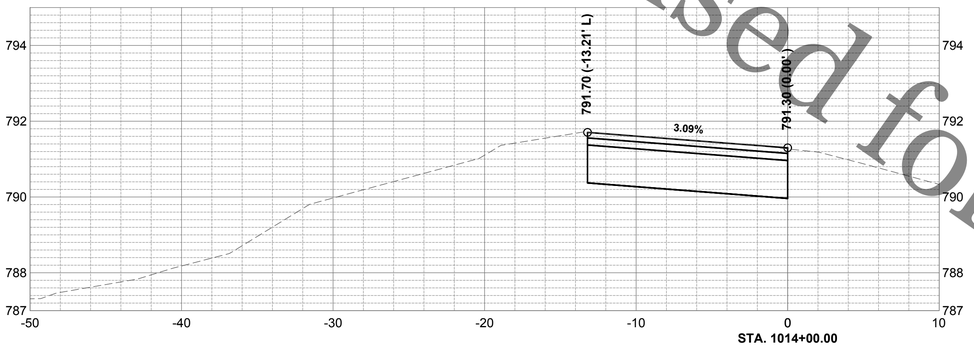
Sheet No.
76 OF 80

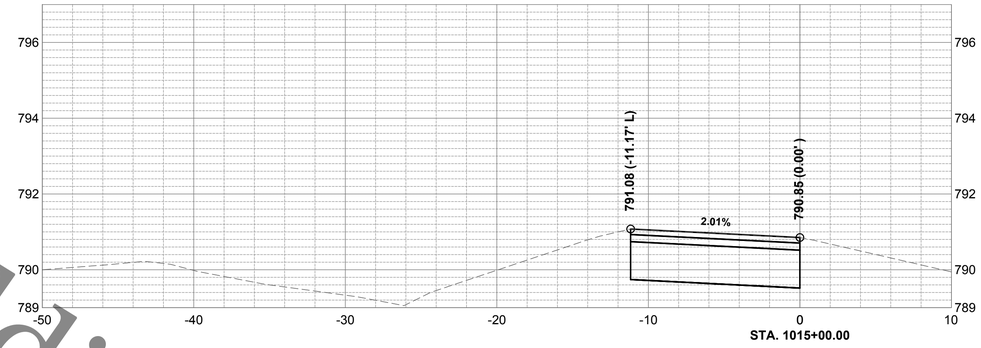
FOR BID

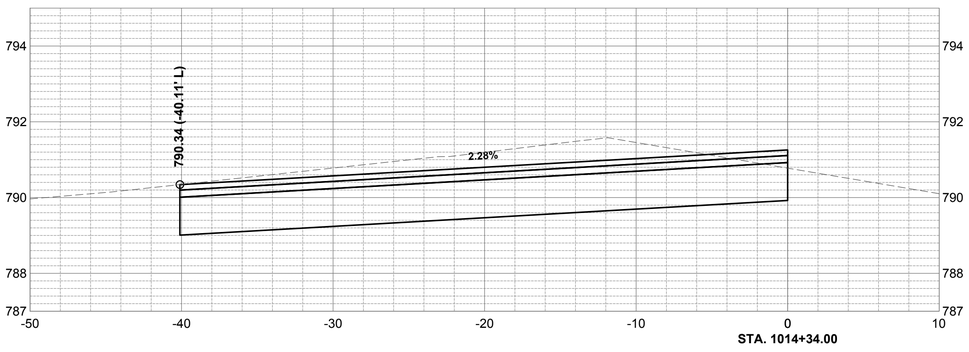
Date
3/3/2020

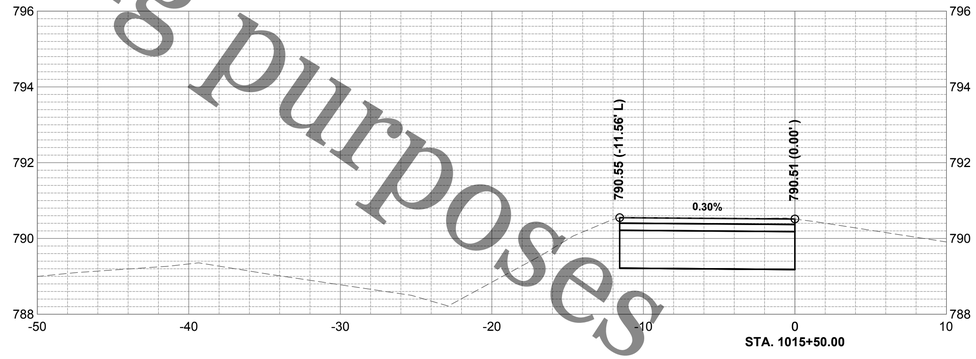
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ROCK RIVER WATER
RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
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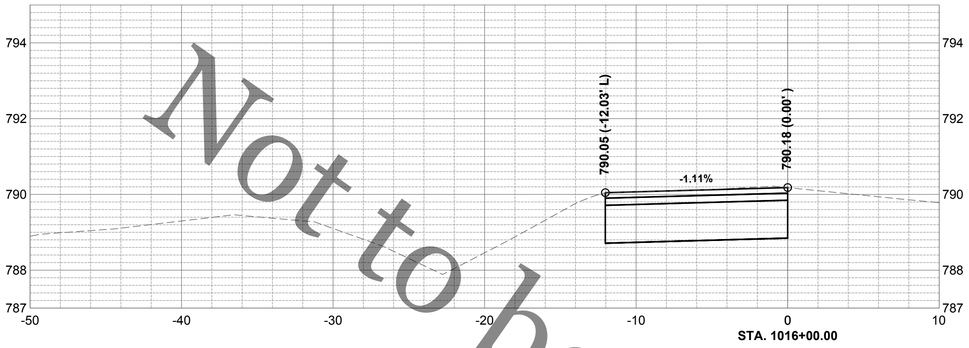
**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

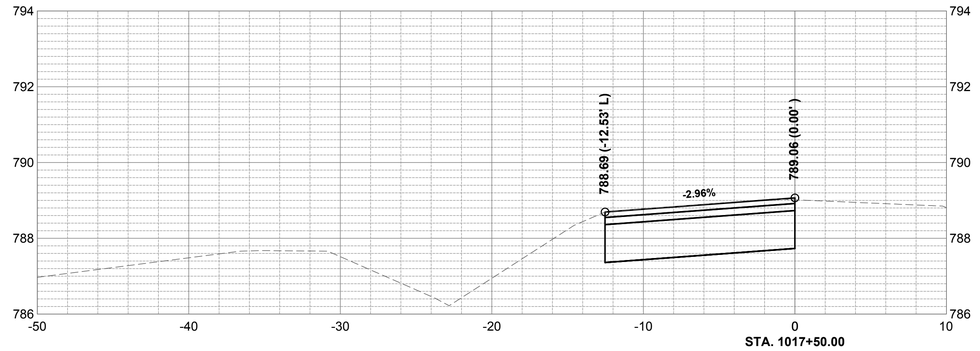
**ROADWAY- SECTIONS- MILL RD 07**

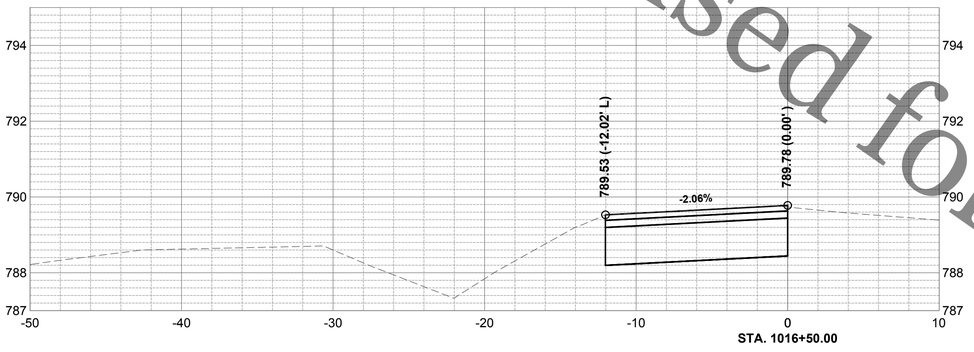
Sheet No. 77 OF 80

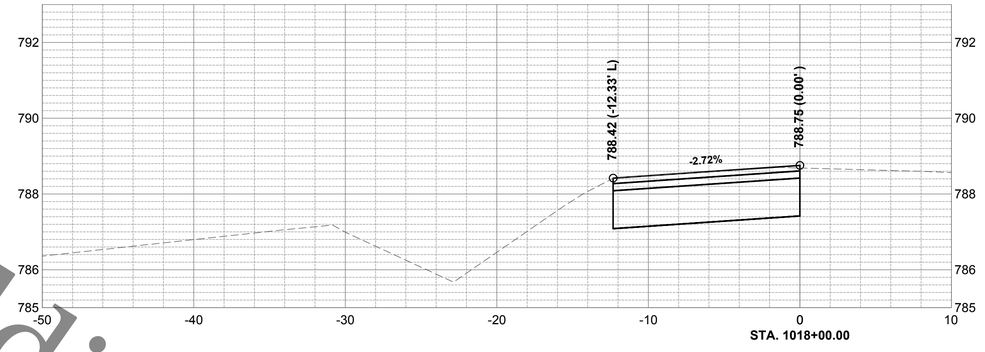
FOR BID

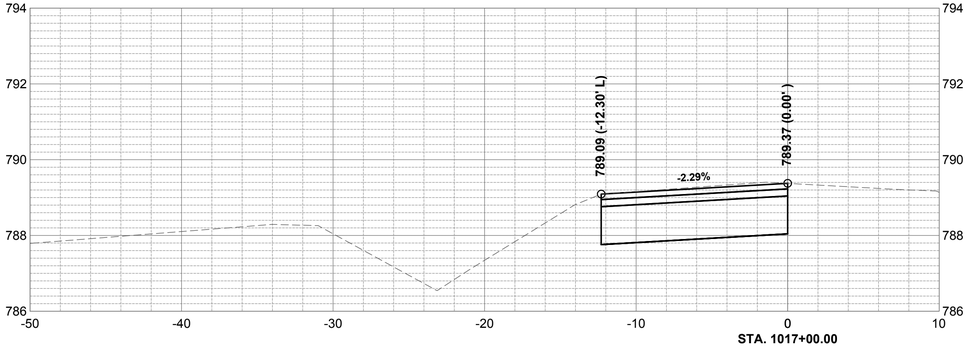
Date 3/3/2020

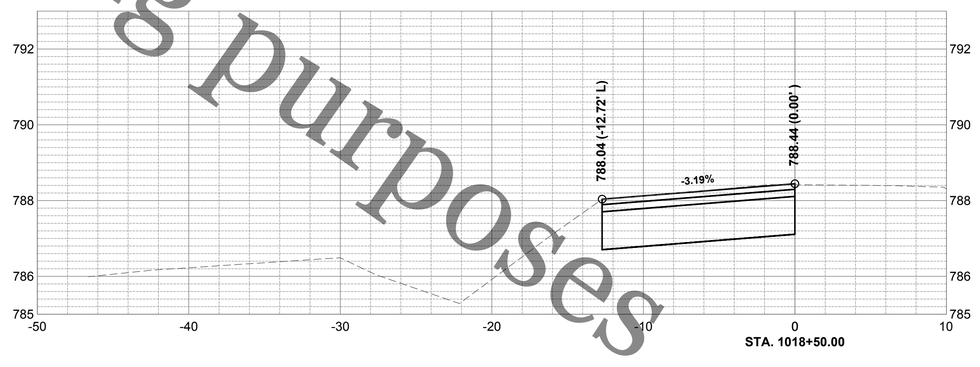
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ROCK RIVER WATER
RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
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(815) 387-7660

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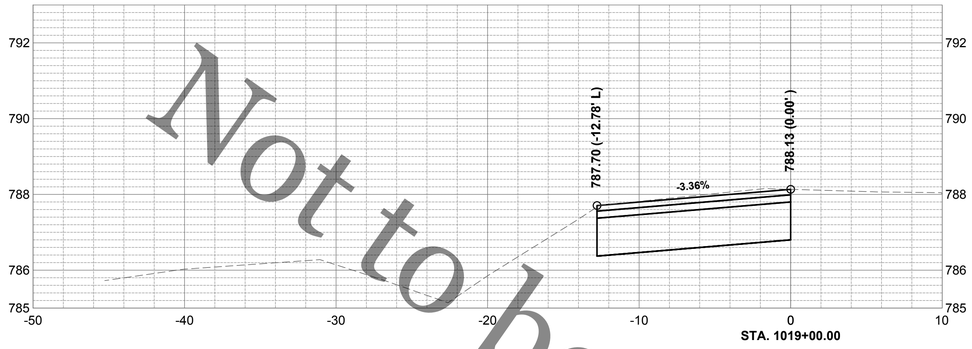
**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

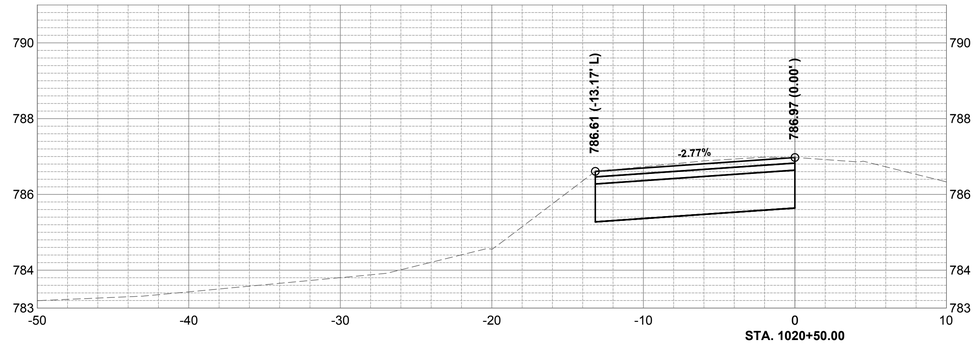
**ROADWAY- SECTIONS- MILL RD 08**

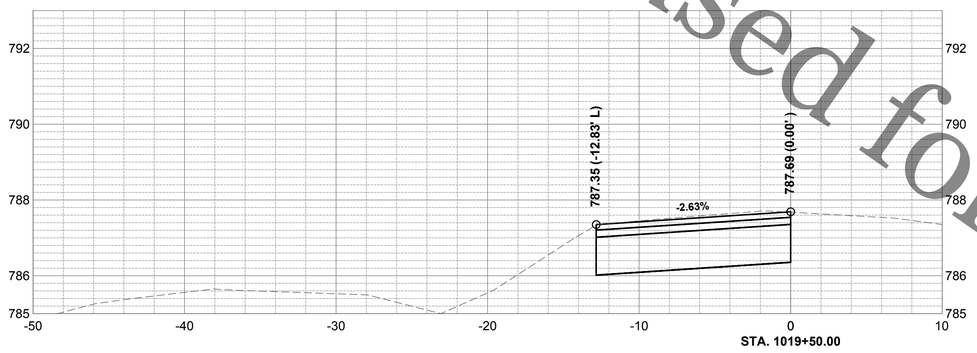
Sheet No. 78 OF 80

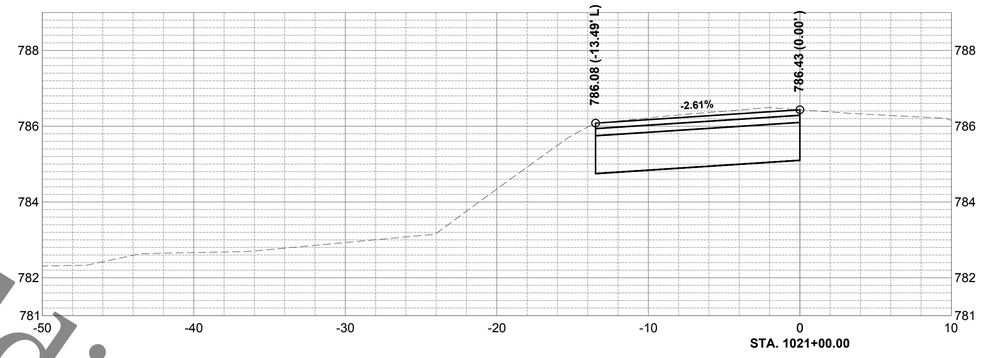
FOR BID

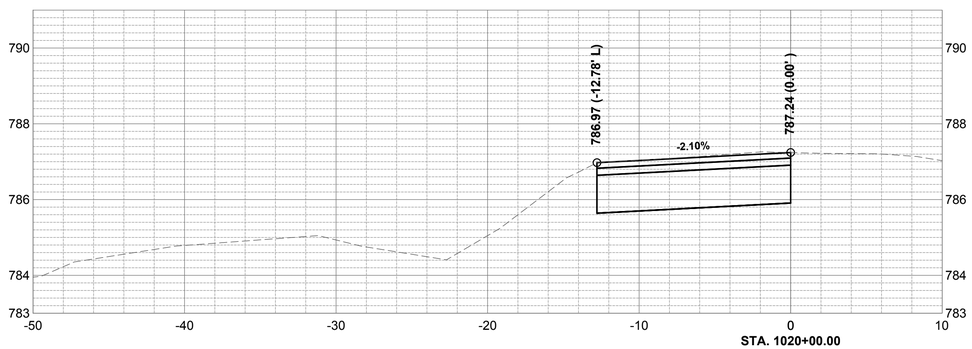
Date 3/3/2020

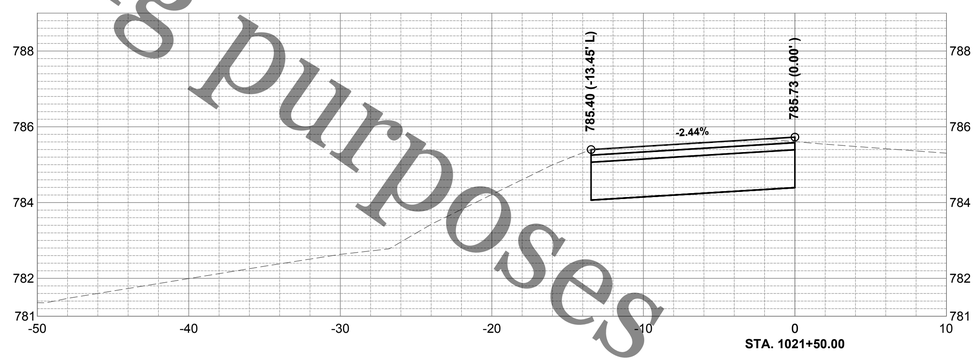
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Rock River Water Reclamation District
ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
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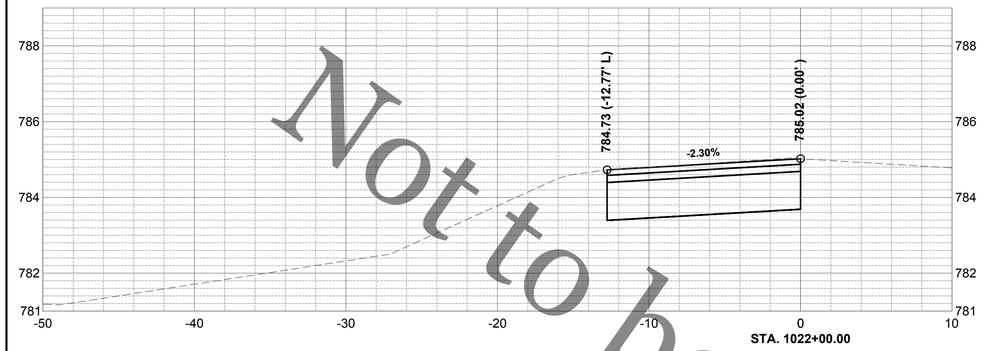
**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

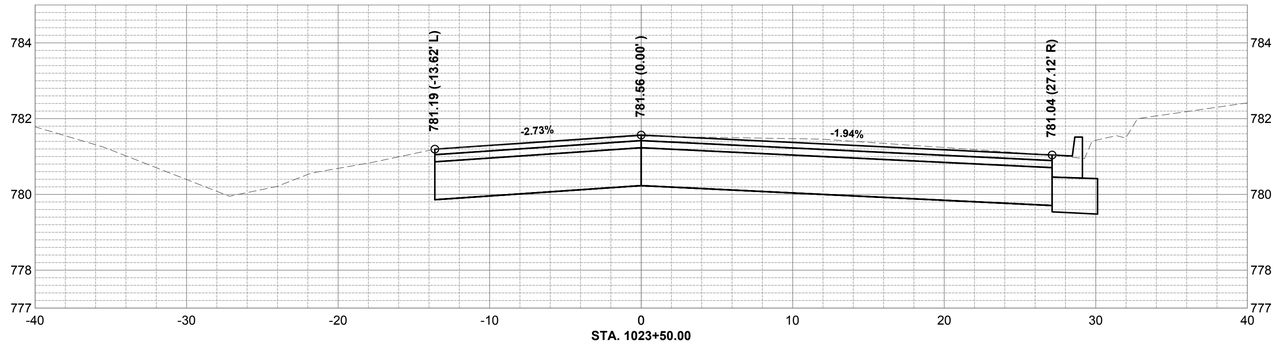
**ROADWAY- SECTIONS- MILL RD 09**

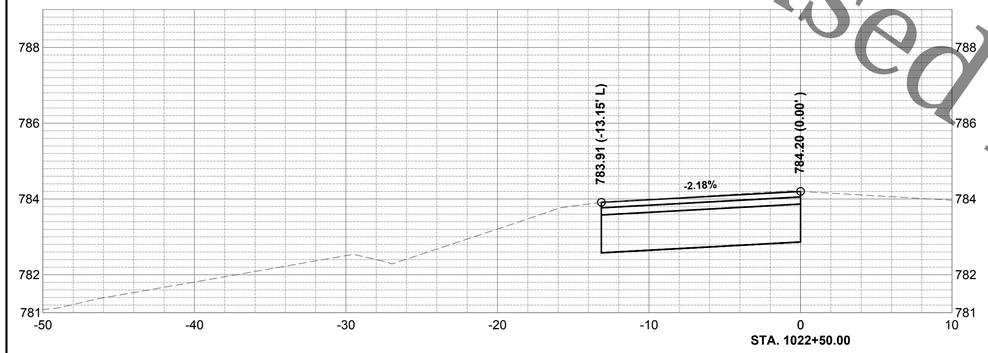
Sheet No. 79 OF 80

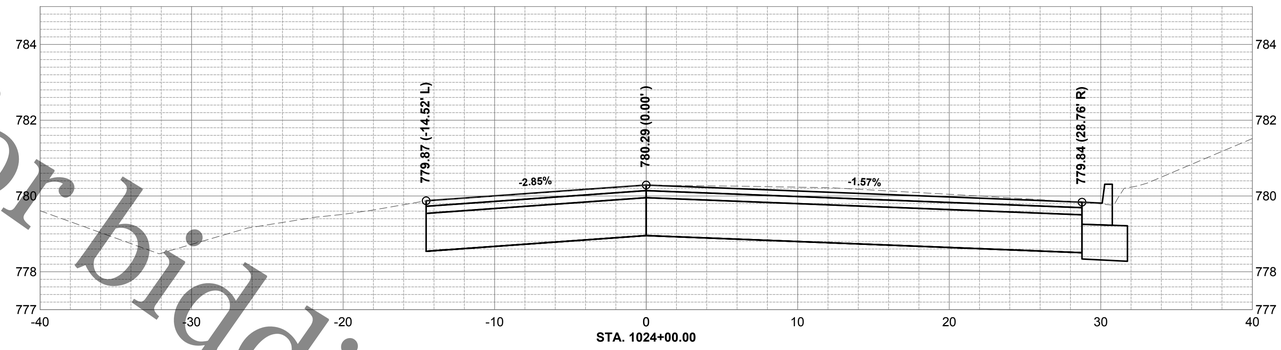
FOR BID

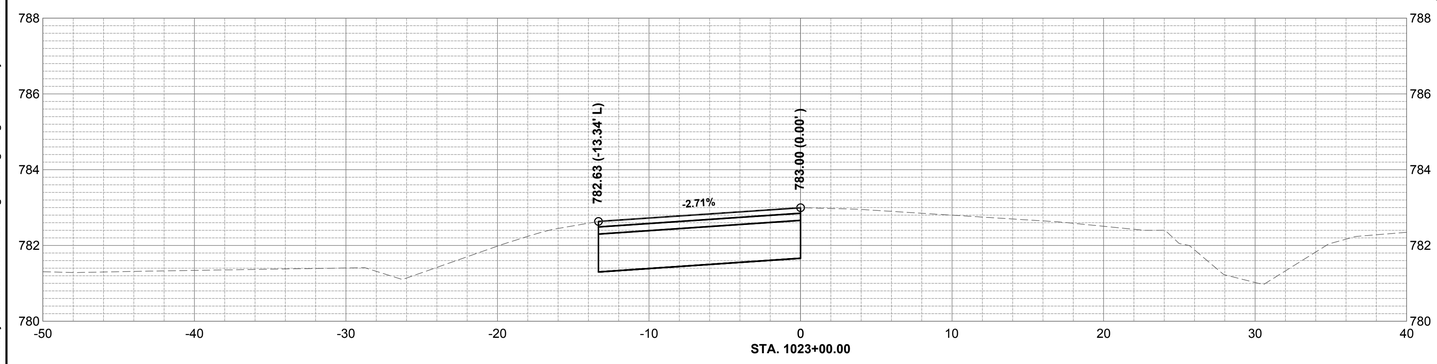
Date 3/3/2020

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ROCK RIVER WATER
RECLAMATION DISTRICT
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**CHERRY VALLEY PARALLEL FORCEMAIN**
**CAPITAL IMPROVEMENT PROJECT #1420 IEPA L17-4667**

**ROADWAY- SECTIONS- MILL RD 10**

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FOR BID

Date 3/3/2020