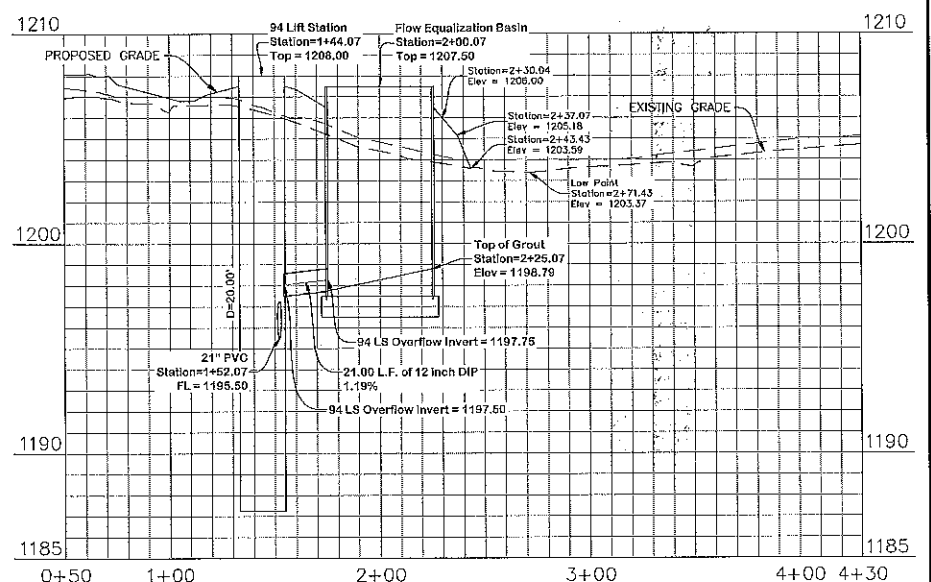


- ### KEY NOTES
- 1 LIFT STATION PROPERTY BOUNDARY (TYP.)
  - 2 6' WIDE MODOOT UTILITY CORRIDOR
  - 3 PERMANENT SEWER EASEMENT
  - 4 TEMPORARY CONSTRUCTION EASEMENT (TYP.)
  - 5 MANHOLE NO. 1 BY CONTRACTOR NO. 2. SEE SHEET NO. 11.
  - 6 21" PS48 PVC GRAVITY SEWER BY CONTRACTOR NO. 2. SEE SHEET NO. 11 & CONTRACT SEPARATION NOTE NO. 2.
  - 7 94" LIFT STATION. SEE SHEET NO. 17
  - 8 12" DIP BY CONTRACTOR NO. 2. (TYP.) SEE SHEET NO. 12
  - 9 1-12" 45° DIP BEND (M)
  - 10 1-CONCRETE THRUST BLOCK. SEE DETAIL 7/27
  - 11 SEWAGE AIR VALVE & VAULT. SEE SHEET NO. 12 & DETAIL 9/27.
  - 12 1-12" 22" DIP BEND (M)
  - 13 1-CONCRETE THRUST BLOCK. SEE DETAIL 7/27
  - 14 FLOW METER & VAULT. SEE SHEET NO. 12 & DETAIL X/X.
  - 15 1-12" PLUG VALVE W/BOX. SEE DETAIL X/X
  - 16 1-12" DIP SWIVEL x SOLID ADAPTER W/SWIVEL GLAND.
  - 17 1-14"x12" DIP REDUCER (FULL BODY, M) W/JOINT RESTRAINTS
  - 18 1-CONCRETE THRUST COLLAR. SEE DETAIL X/X BY CONTRACTOR NO. 2. SEE CONTRACT SEPARATION NOTE NO. 3.
  - 19 14" C905 PVC BY CONTRACTOR NO. 1. SEE SHEET NO. 12 AND CONTRACT SEPARATION NOTE NO. 4.
  - 20 FLOW EQUALIZATION BASIN. SEE SHEET NO. X
  - 21 12" DIP OVERFLOW PIPE. SEE DETAIL A/16
  - 22 CONTROL BUILDING. SEE SHEET NO. X
  - 23 TRANSFORMER PAD BY CONTRACTOR NO. 2 W/TRANSFORMER BY EMPIRE DISTRICT ELECTRIC. SEE SHEET NO. X AND DETAIL X/X
  - 24 STANDBY POWER GENERATOR AND CONCRETE GENERATOR PAD. SEE SHEET NO. X AND DETAIL X/X
  - 25 ELECTRICAL EQUIPMENT RACK. SEE DETAIL X/X
  - 26 ~12.13 S.Y. OF 6" AGGREGATE SURFACE SURFACING OVER PERMEABLE VEGETATION BARRIER FABRIC. EXTEND AGGREGATE 1' BEYOND PERIMETER OF SECURITY FENCE.
  - 27 CHAIN LINK PERIMETER SECURITY FENCE W/14' DOUBLE LEAF GATE. LOCATE 1' INSIDE PROPERTY LINE AND AS INDICATED. SEE DETAIL 4/28
  - 28 ~4 S.Y. OF CONCRETE SIDEWALK. SEE SHEET NO. X AND DETAIL 8/28
  - 29 ~7.5 S.Y. OF 8" THICK CONCRETE OVER 4" MODOOT TYPE 1 AGGREGATE BASE WITH 5x5-W2.8xW2.8 WELDED WIRE FABRIC IN MIDDLE OF SLAB. SEE DETAIL X/X
  - 30 ~55 S.Y. OF 8" THICK CONCRETE SURFACING OVER 4" MODOOT TYPE 1 AGGREGATE BASE. 16' WIDE WITH 20' APPROACH RAIL.
  - 31 CULVERT A ~38 L.F. OF 18" CLASS IV RCP W/FES. PROVIDE PRECAST CONCRETE TOE WALL ON DOWNSTREAM END. SEE DETAIL X/X.
  - 32 ~54 S.Y. OF 8" THICK CONCRETE SURFACING OVER 4" MODOOT TYPE 1 AGGREGATE BASE. 16' WIDE WITH 20' APPROACH RAIL.
  - 33 CULVERT B ~38 L.F. OF 18" CLASS IV RCP W/FES. PROVIDE PRECAST CONCRETE TOE WALL ON DOWNSTREAM END. SEE DETAIL X/X.
  - 34 CONSTRUCT MIN. 12" DEEP Y-DITCH WITH 4:1 (MAX.) SIDE SLOPES. STABILIZE CHANNEL WITH ~20# S.Y. OF TEMPORARY TURF REINFORCEMENT MAT EQUAL TO LUNELOK 532 OR CURLEX II. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
  - 35 GRADE BREAK
  - 36 1" WATER LINE & WATER METER BY CITY FORCES.
  - 37 2" SCH 40 PVC WATER LINE. SEE DETAIL 2/28
  - 38 1-YARD HYDRANT. SEE DETAIL X/X
  - 39 ~83 L.F. OF 4" SCH 40 PVC @ 2.00% (MIN.) SEE SHEET NO. 11
  - 40 1-4" EDL CLEANOUT. SEE DETAIL 11/27
  - 41 1-21"x4" INSERT-TEE. SEE DETAIL X/X
  - 42 12" COMPOST FILTER SOCK. SEE DETAIL 10/27
  - 43 12" COMPOST FILTER DITCH CHECK (TYP.) SEE DETAIL 5/28
  - 44 INLET PROTECTION DEVICE (COMPOST FILTER SOCK). SEE DETAIL 5/28
  - 45 EROSION CONTROL DEVICE BY CONTRACTOR NO. 1

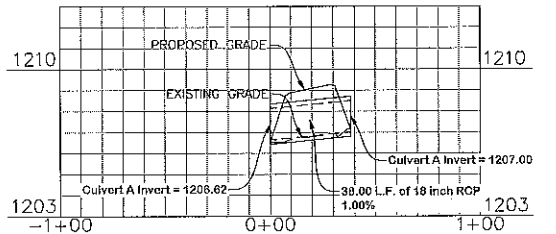
### CONTRACT SEPARATION NOTES

1. ALL WORK THIS SHEET BY CONTRACTOR NO. 2 UNLESS OTHERWISE NOTED.
2. CONTRACTOR NO. 2 TO INSTALL AND TEST MAIN "94" GRAVITY SEWER AND MANHOLES.
3. CONTRACTOR NO. 2 TO INSTALL AND TEST FORCE MAIN "94" FROM STA 0+00 (LIFT STATION) TO STA 0+55 (14"x12" DIP REDUCER) INCLUDING 12" DIP FORCE MAIN, AIR VALVE & VAULT, FLOW METER & VAULT, PLUG VALVE, ADAPTER, 14"x12" DIP REDUCER W/COLLAR, AND MAKE CONNECTION TO 14" FORCE MAIN "94" INSTALLED BY CONTRACTOR NO. 1. SEE SHEET NO. 12.
4. CONTRACTOR NO. 1 TO INSTALL AND TEST FORCE MAIN "94" FROM STA 0+55 (TEMPORARY CAP) TO STA 41+03.25 (EOL) INCLUDING 14" C905 PVC FORCE MAIN AND TEMPORARY CAP. SEE SHEET NO. 12.
5. OVERHEAD AND UNDERGROUND PRIMARY ELECTRIC TO BE CONSTRUCTED BY OTHERS. COORDINATE WITH EMPIRE DISTRICT ELECTRIC.
6. OFF SITE WATER MAIN EXTENSION AND METER TO BE CONSTRUCTED BY CITY OF WILLARD. SITE WATER PIPING BY CONTRACTOR NO. 2. COORDINATE WITH WILLARD PUBLIC WORKS.

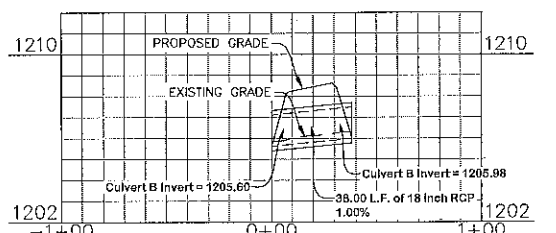
**SITE PLAN**  
SCALE: HOR: 1" = 20'



**OVERFLOW PROFILE** A



**CULVERT "A" PROFILE** B



**CULVERT "B" PROFILE** C

**"94" Lift Station Site Plan & Profiles**

FILE NAME: C-SP-01	75% CD SET PRELIMINARY - NOT FOR CONSTRUCTION, RECORDING PURPOSES OR IMPLEMENTATION.	Sanitary Sewer System Improvements Gravity Sewer, Force Mains & Lift Station Willard, Greene County, Missouri	SHEET <b>16</b>
COMM. NO: 16-005	10-28-2017 Thomas E. Hancock, MD Engineer No. E-30047	<b>WHITE RIVER</b> ENGINEERING INC.	DATE 10-28-17 REVISION