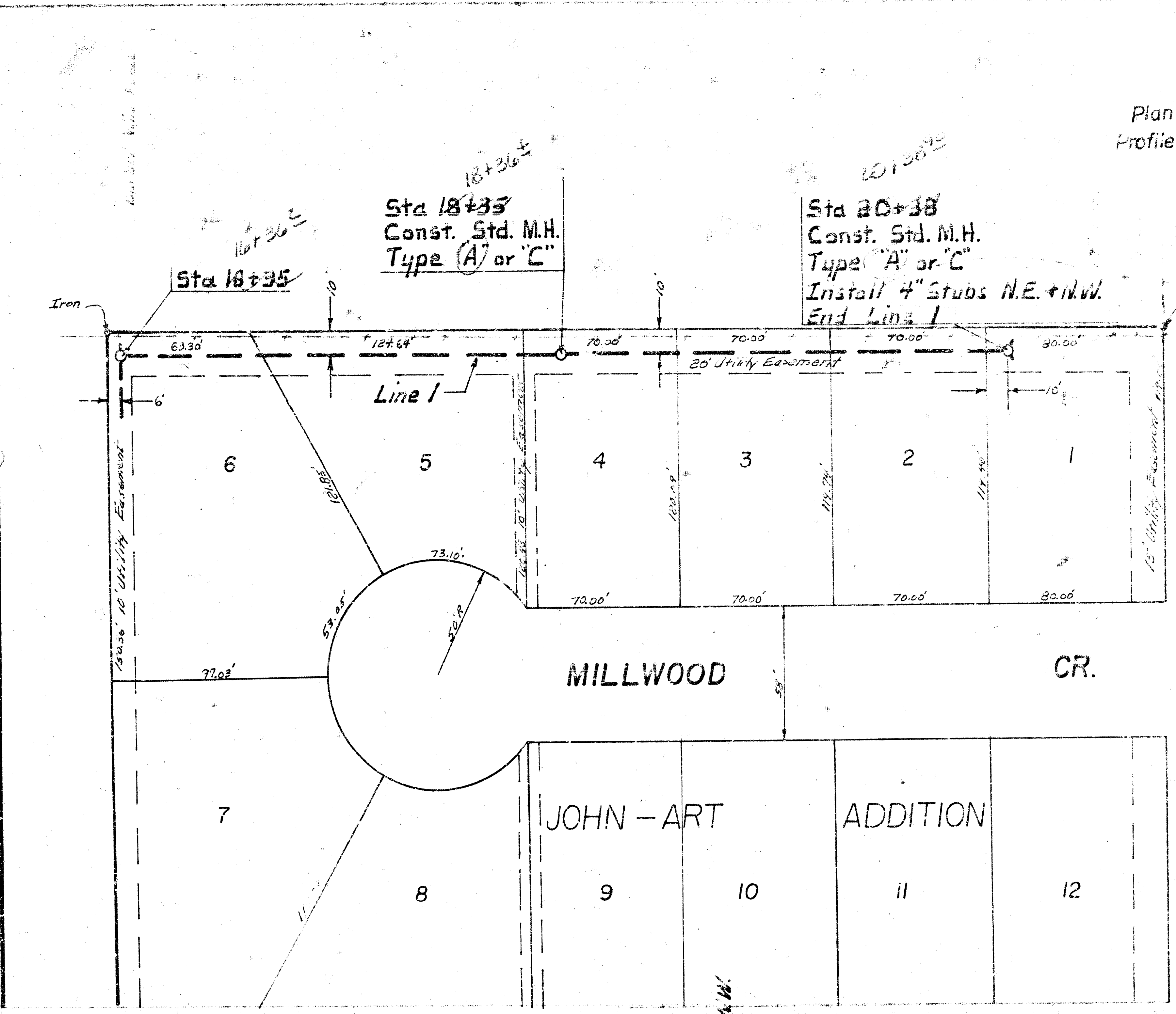
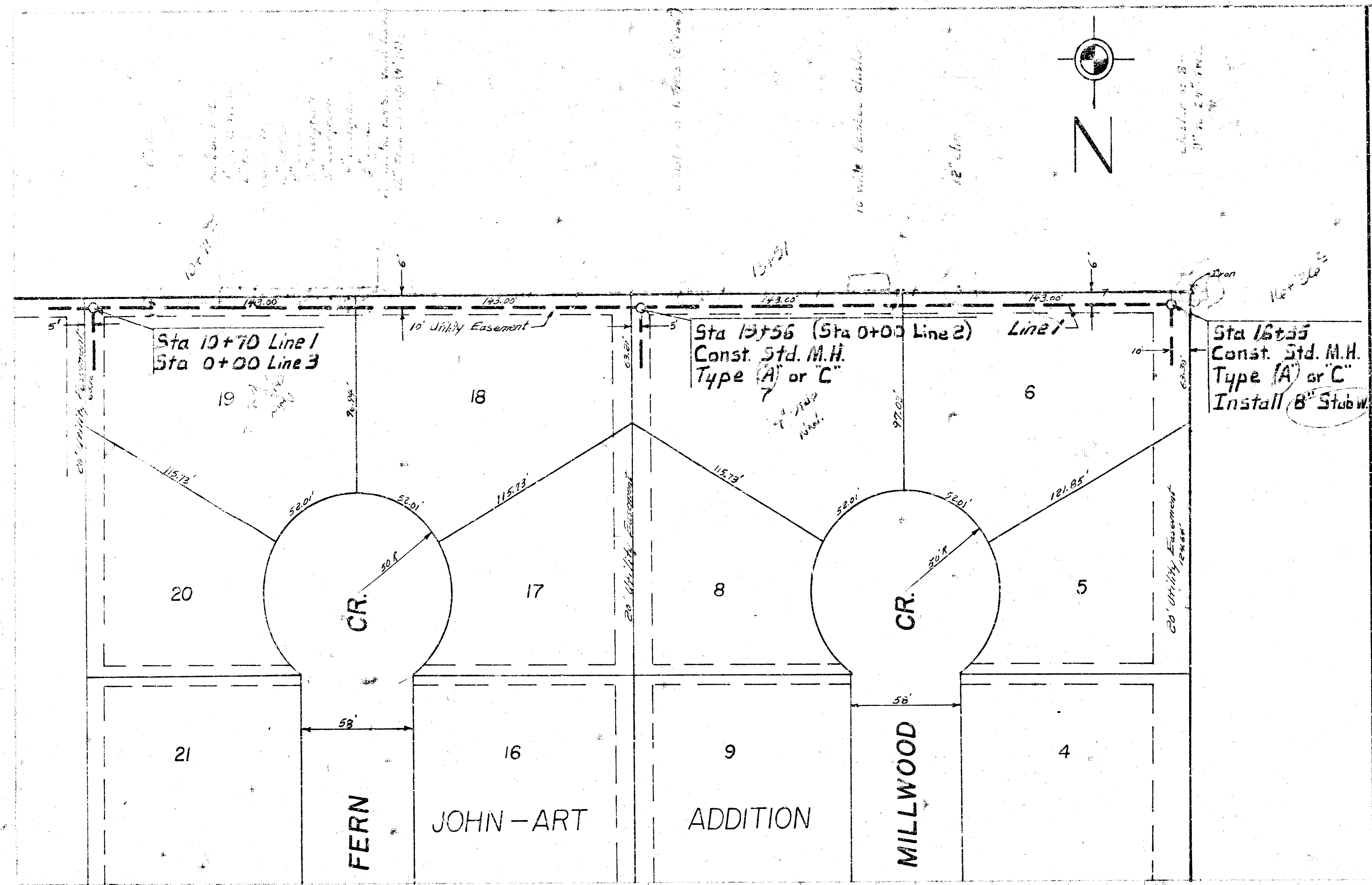


Plan Scale
Profile Scale

R. W. Linn City Engineer

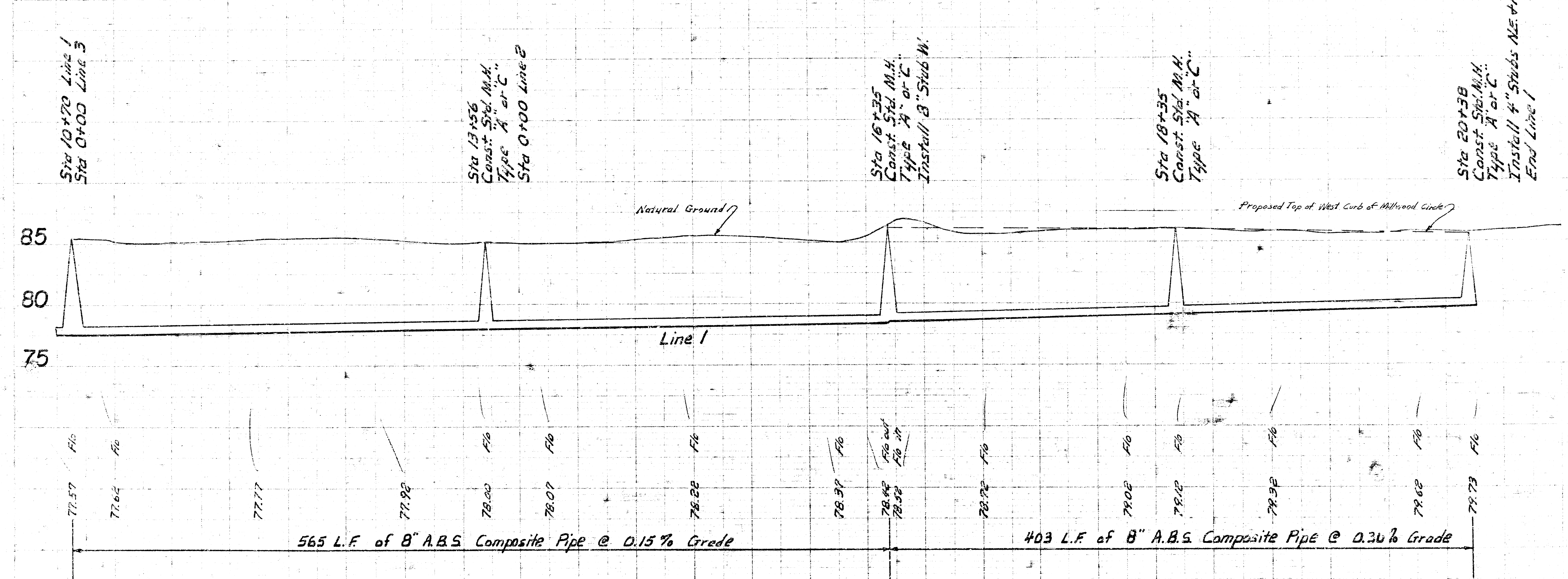
100-62

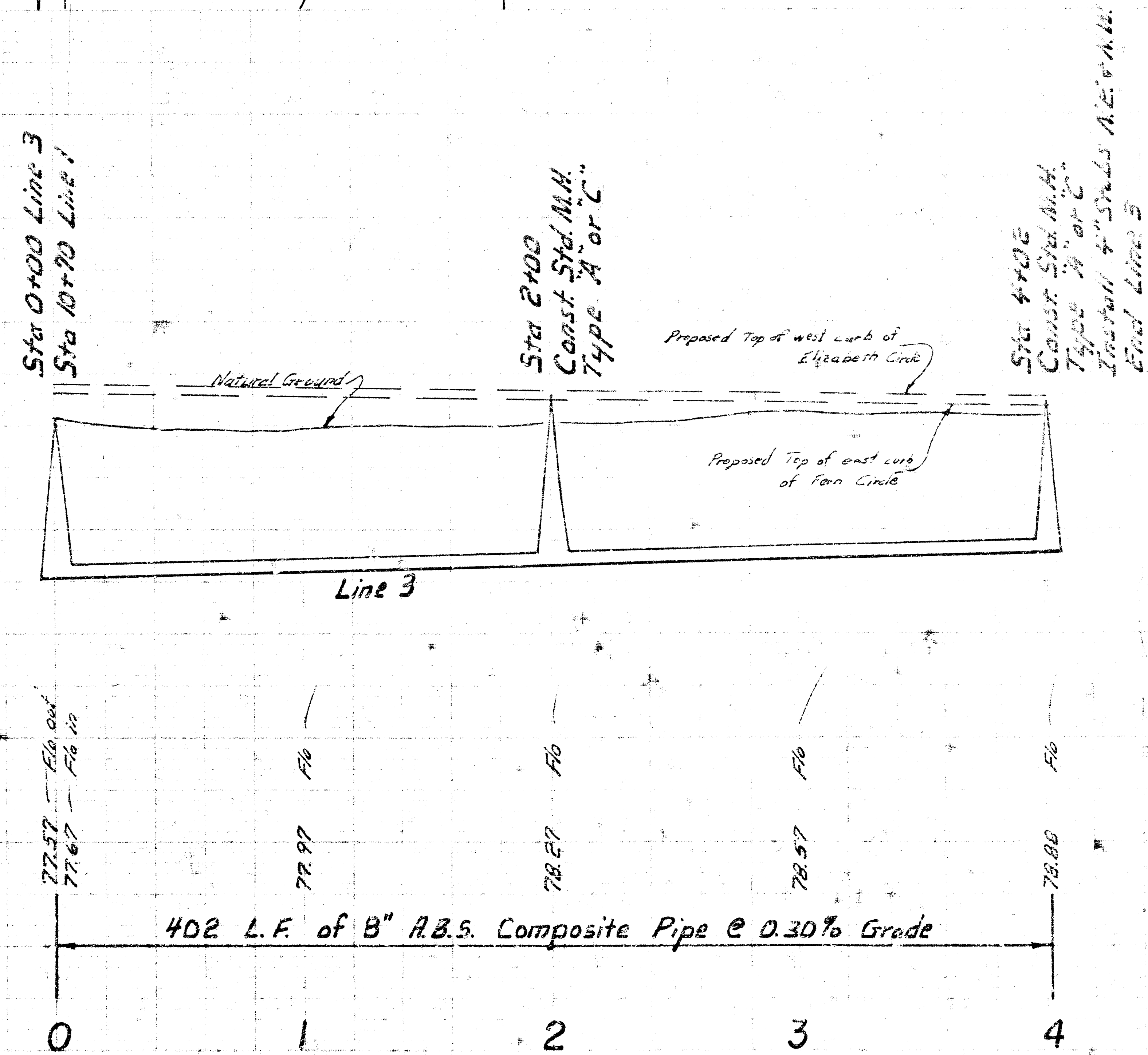
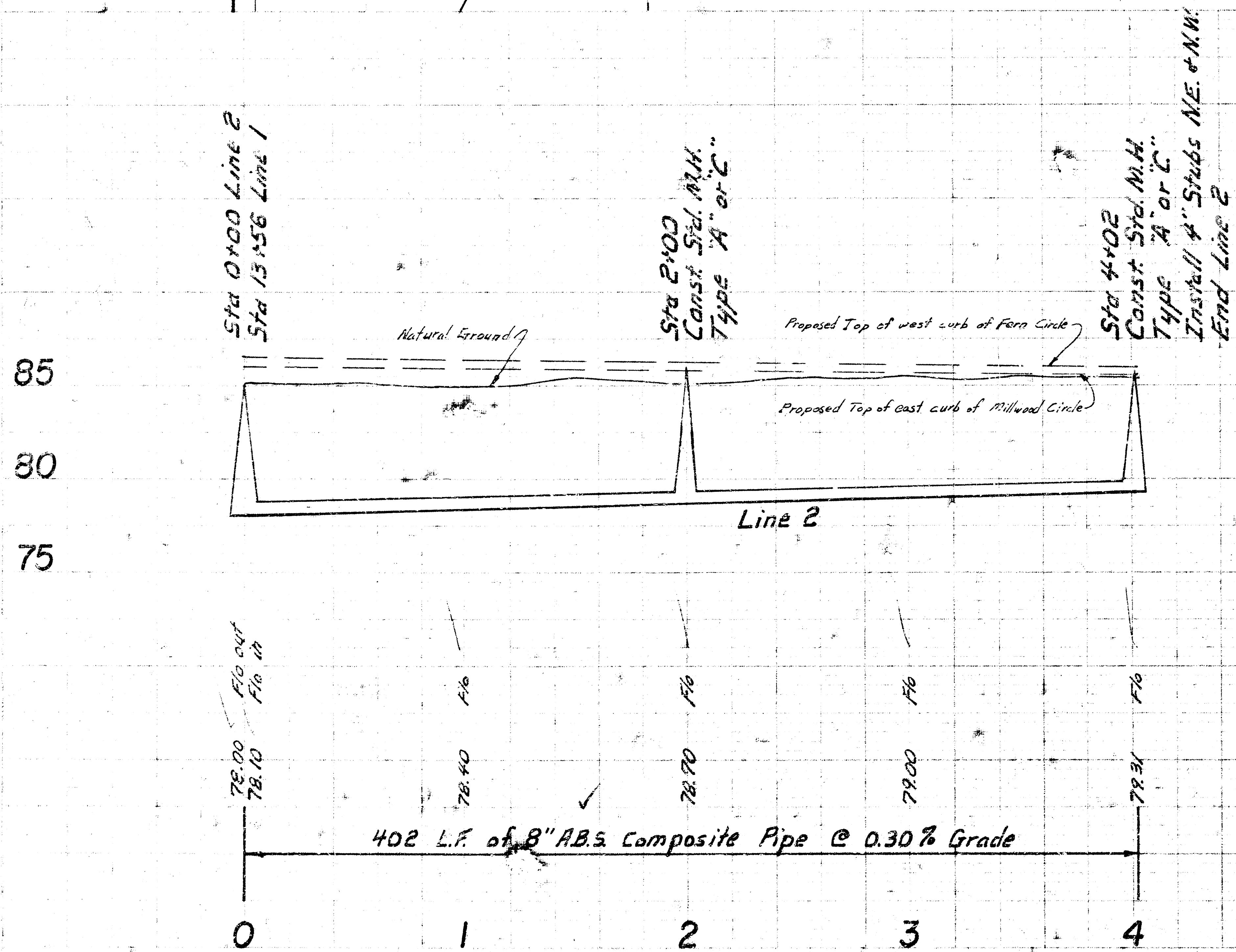
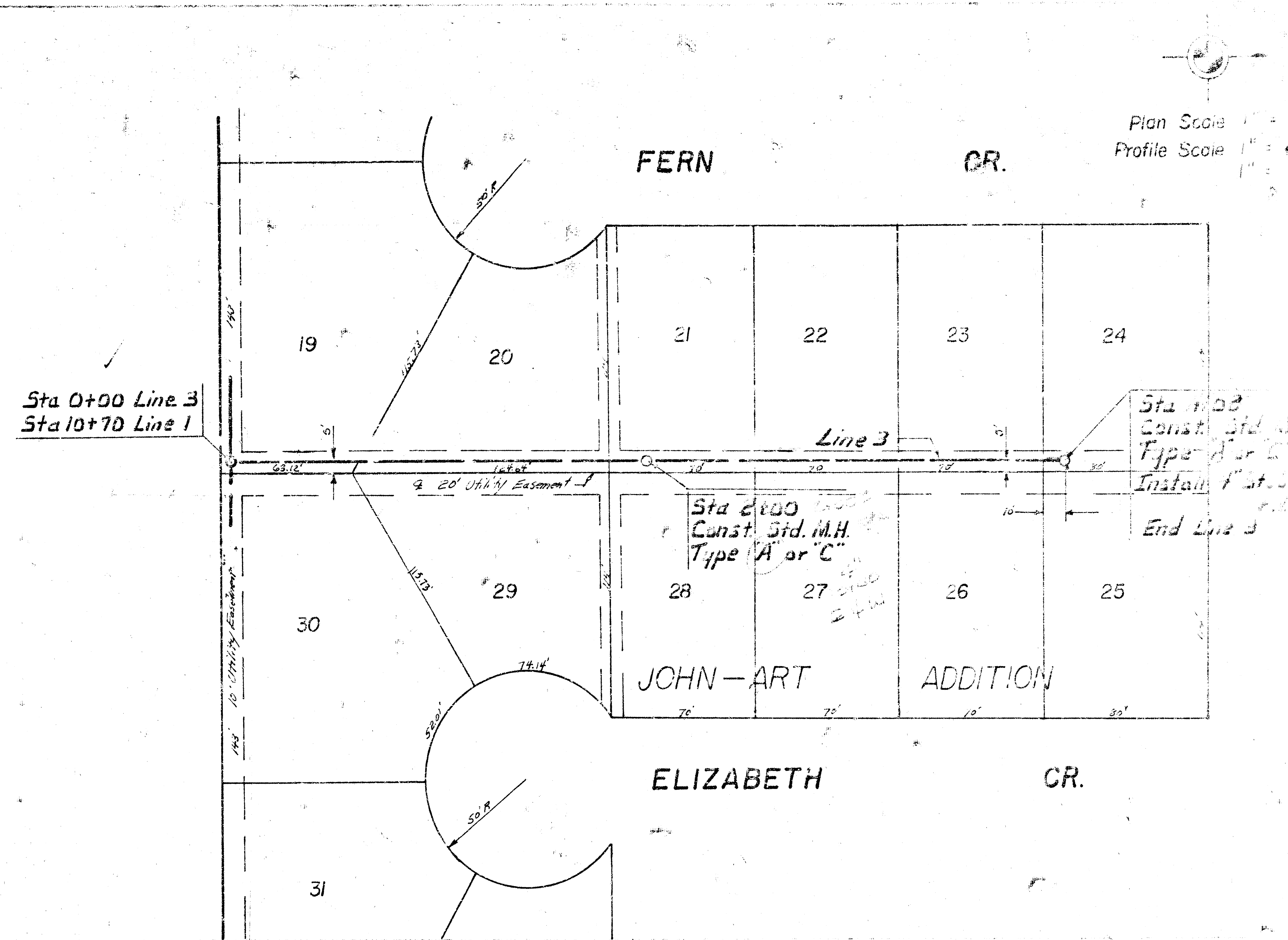
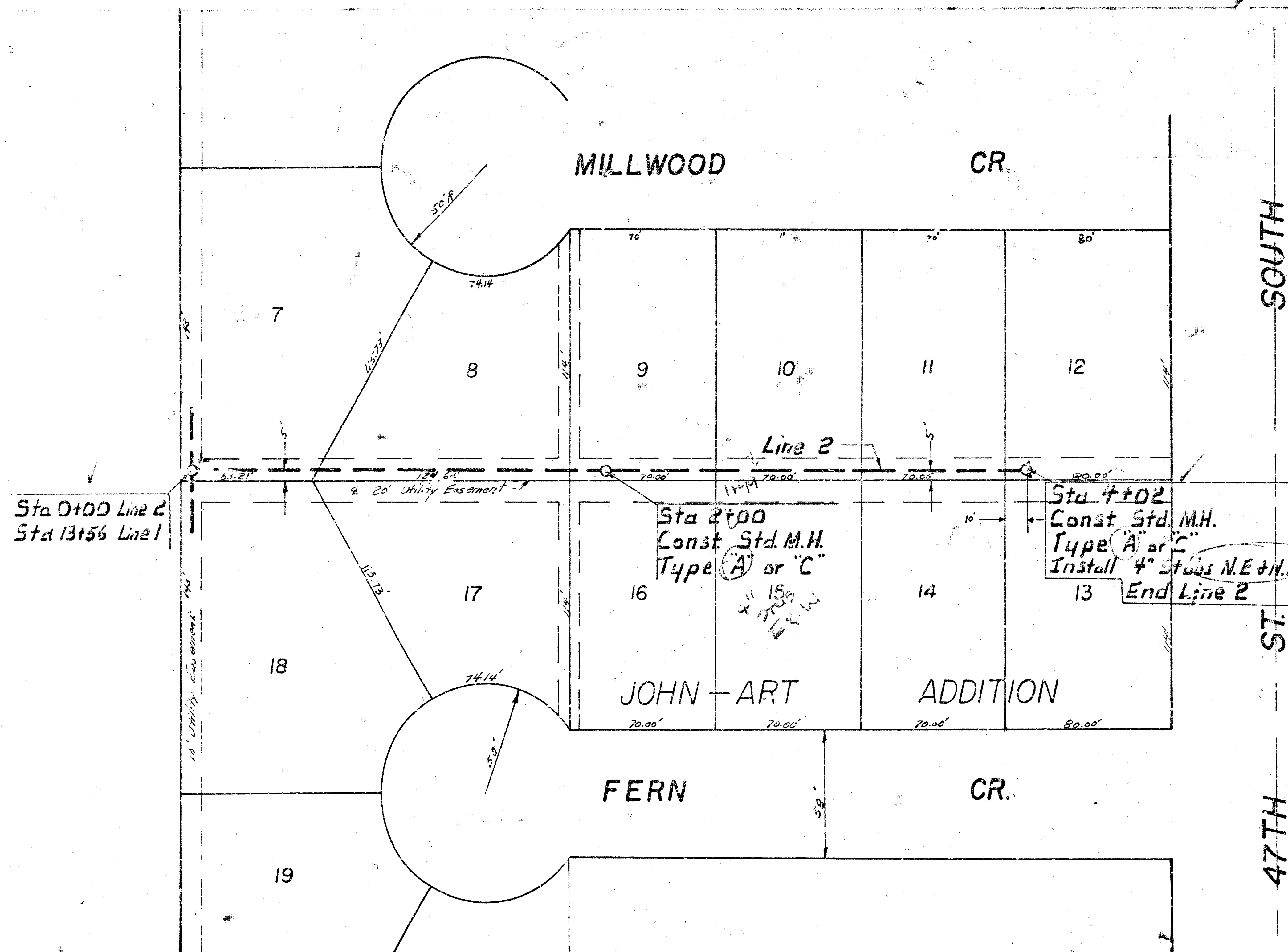
State Route 47th

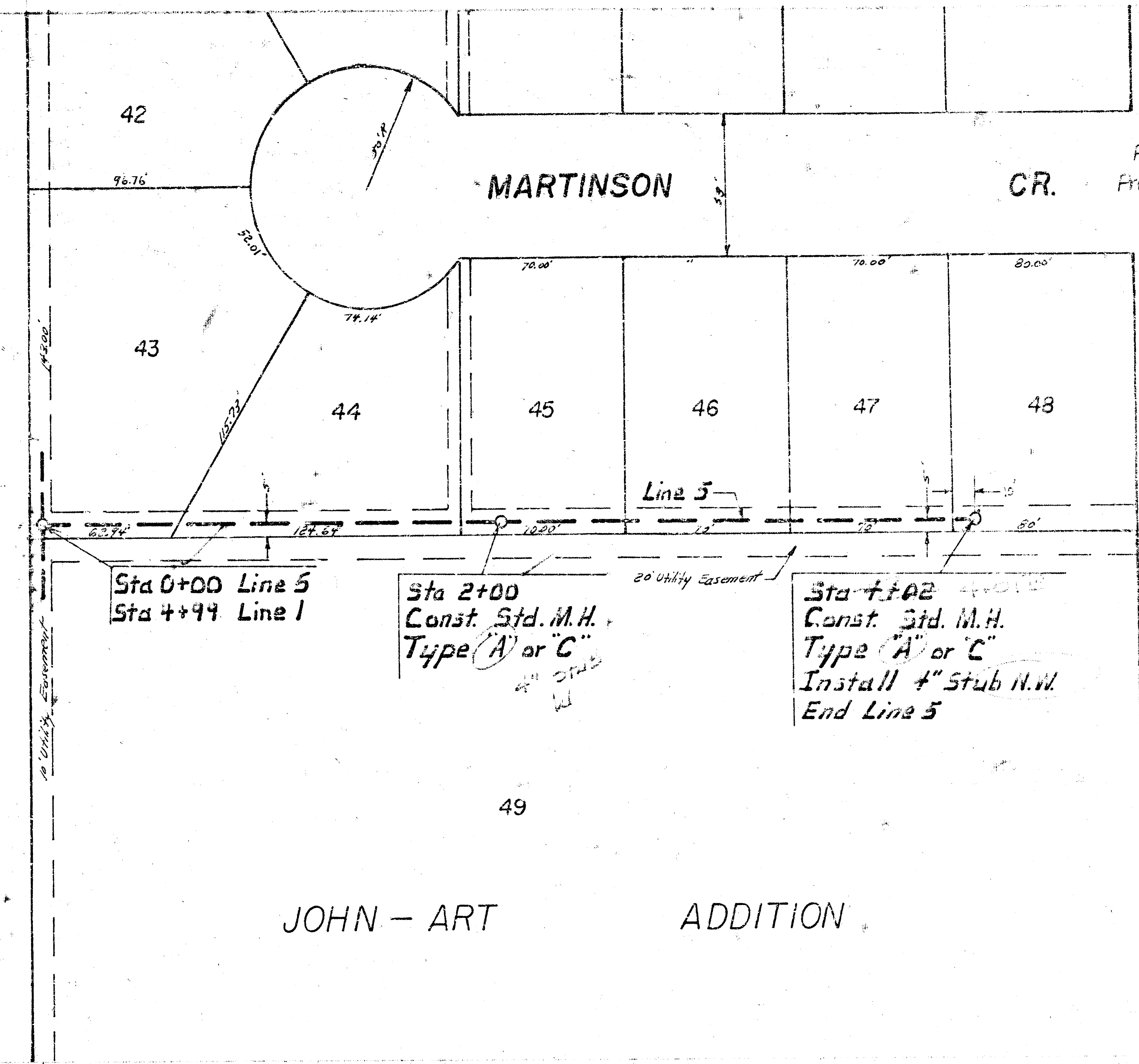
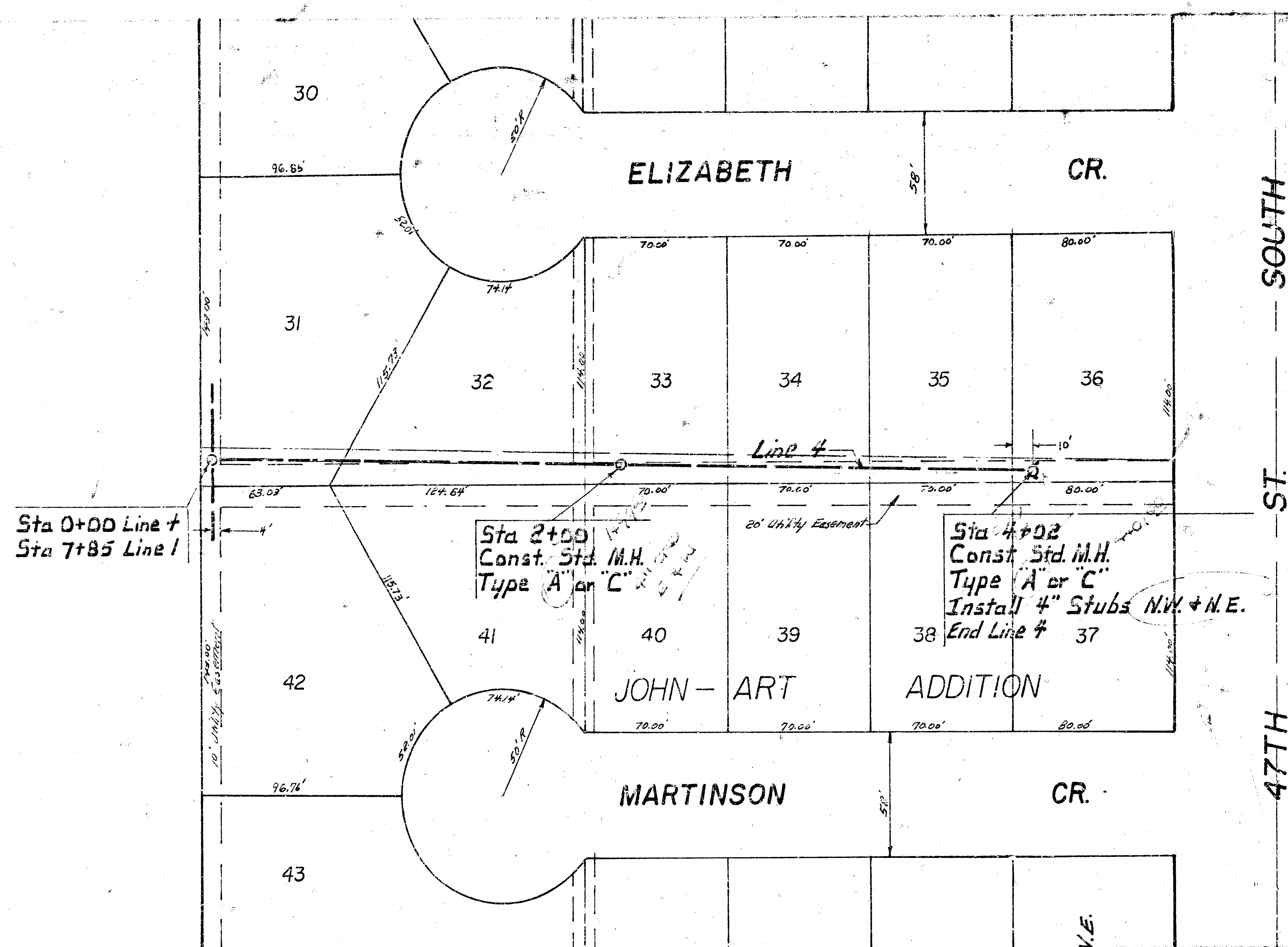


Plan Scale
Profile Scale

47TH ST SOUTH







Plan Scale 1" = 40'
Profile Scale 1" = 4'

Sta 0+00 Line 4
Sta 7+85 Line 1

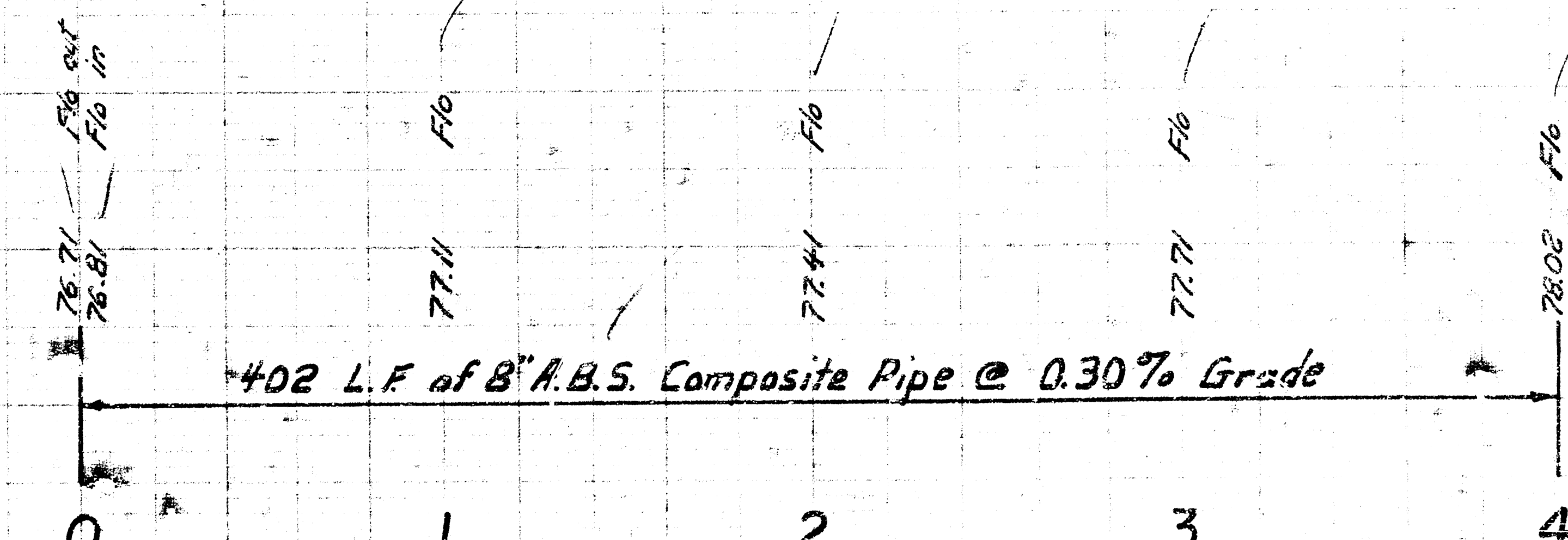
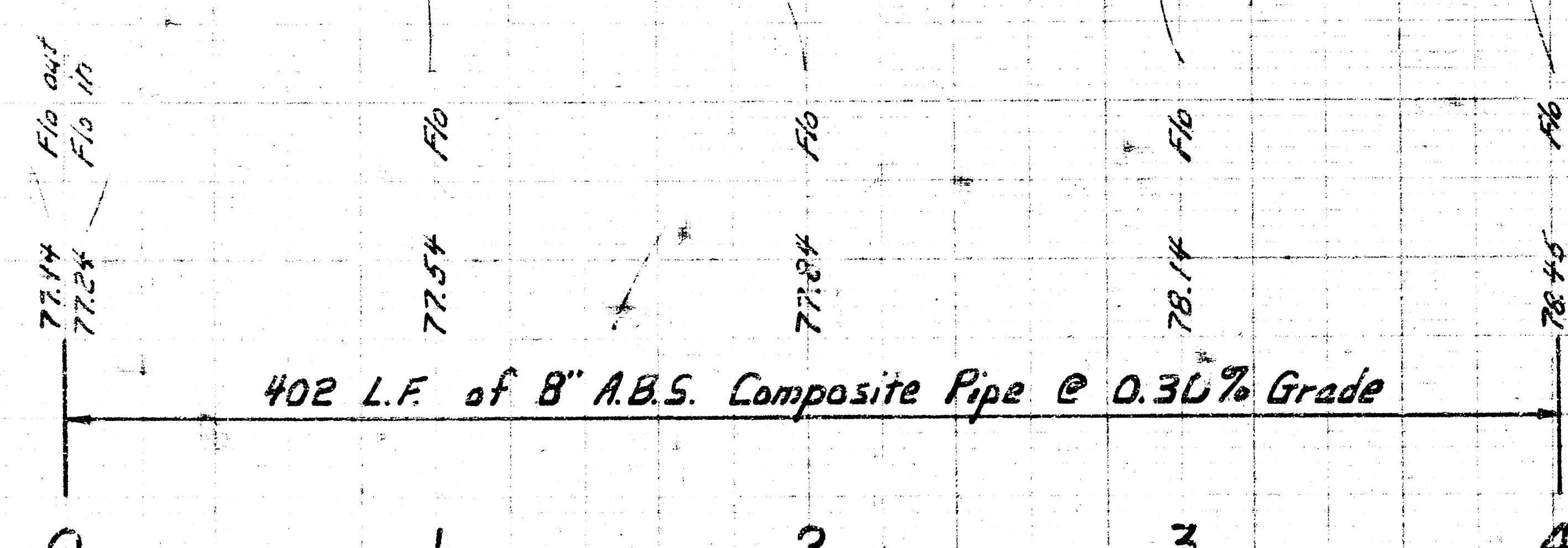
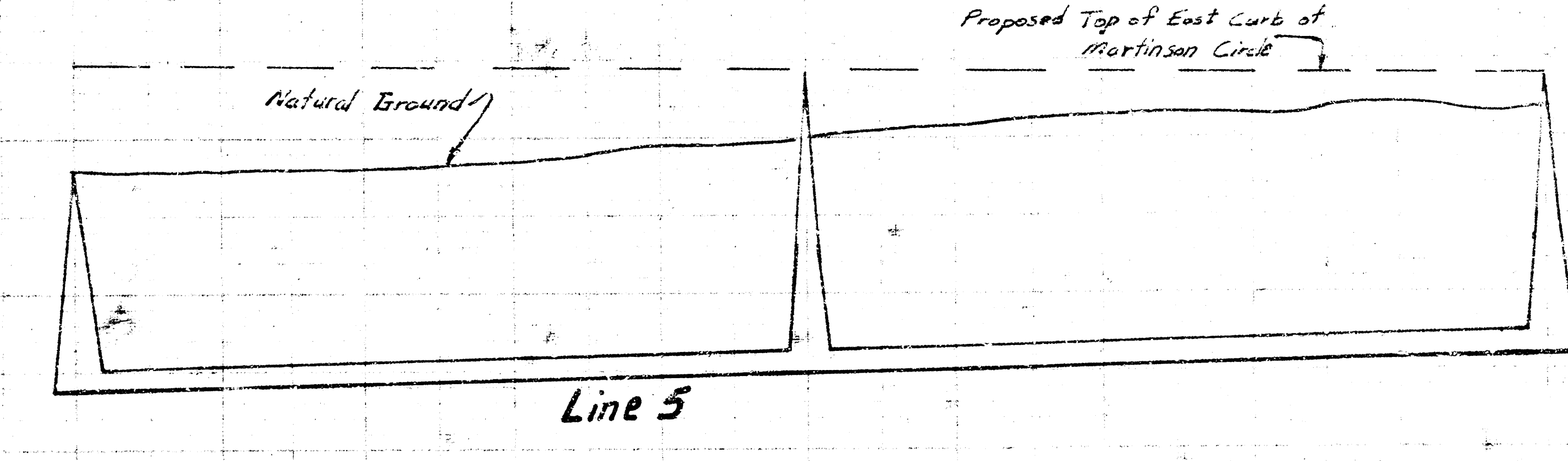
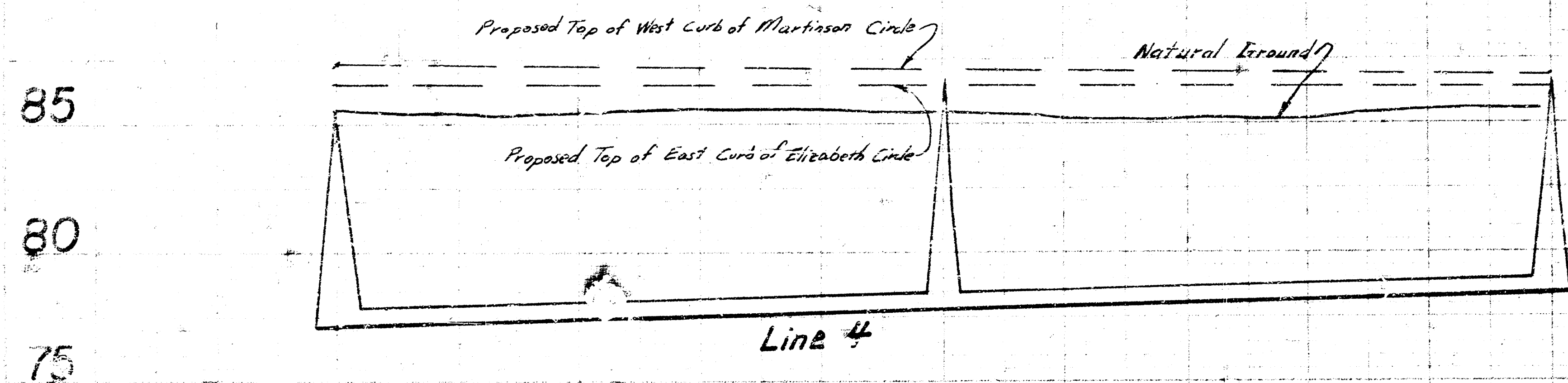
Sta 2+00
Const. Std. M.H.
Type "A" or "C"

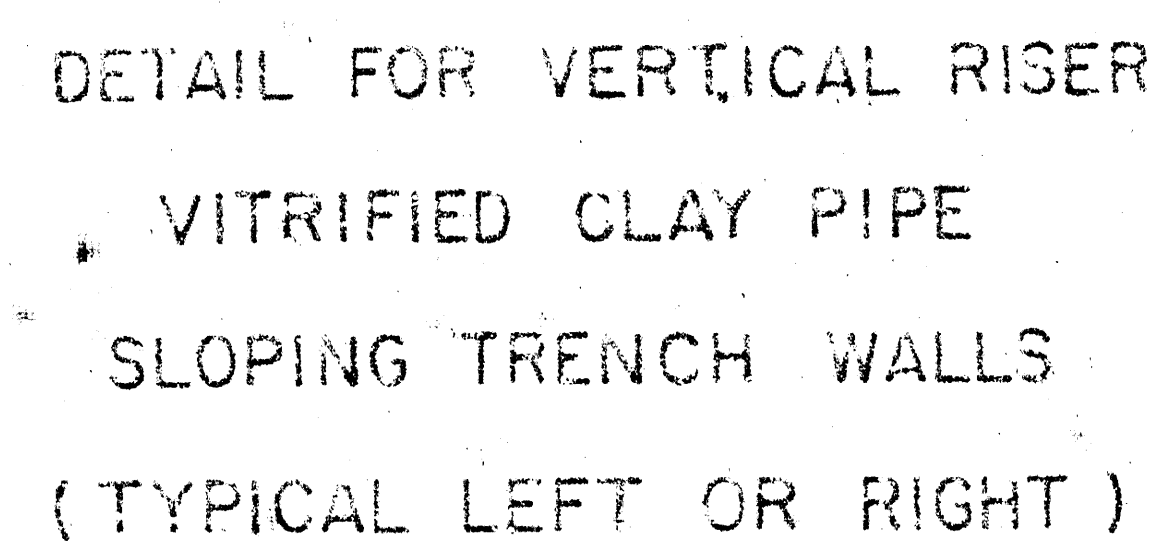
Sta 4+02
Const. Std. M.H.
Type "A" or "C"
Install 4" Stubs N.W. & N.E.
End Line 4

Sta 0+00 Line 5
Sta 4+99 Line 1

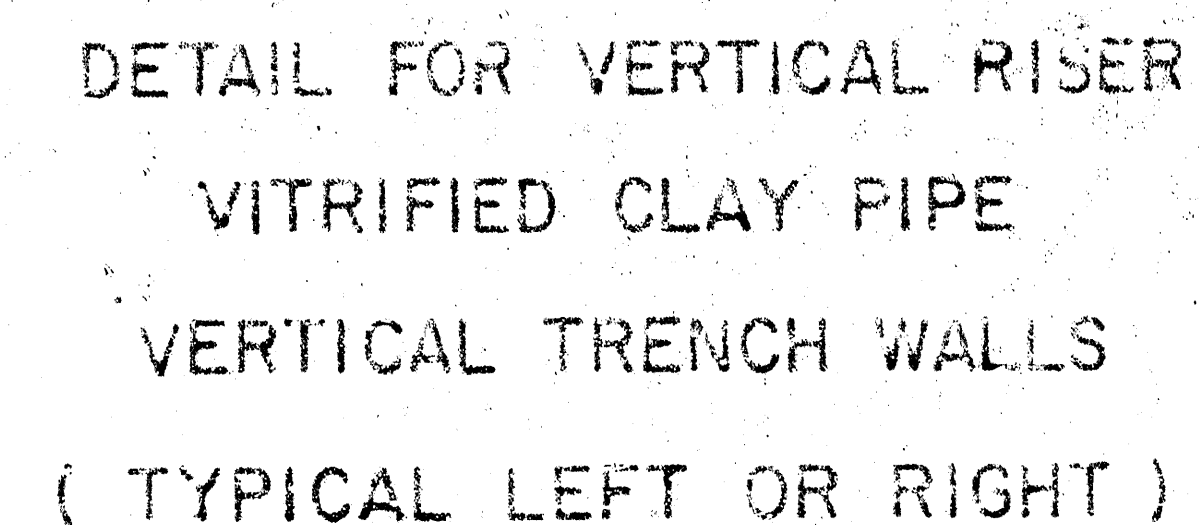
Sta 2+00
Const. Std. M.H.
Type "A" or "C"

Sta 4+02
Const. Std. M.H.
Type "A" or "C"
Install 4" Stub N.W.
End Line 5

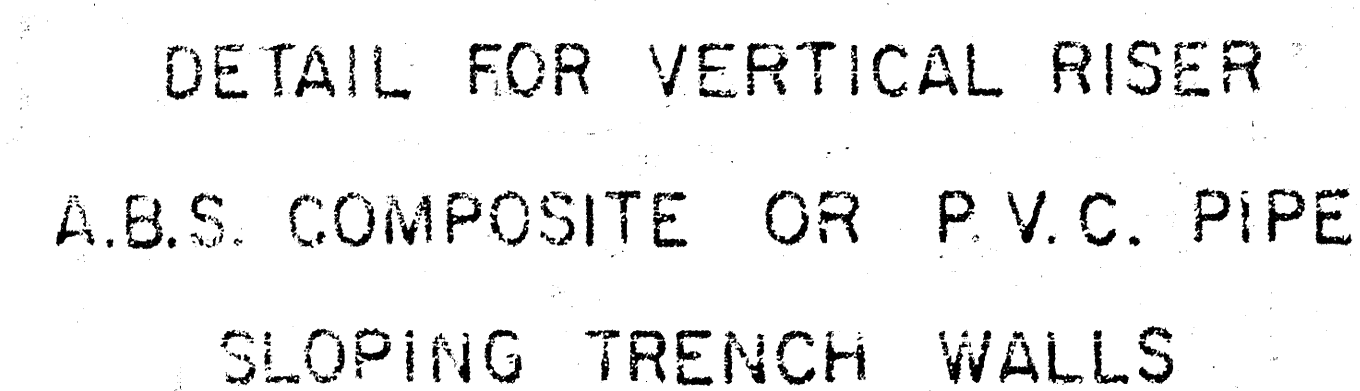




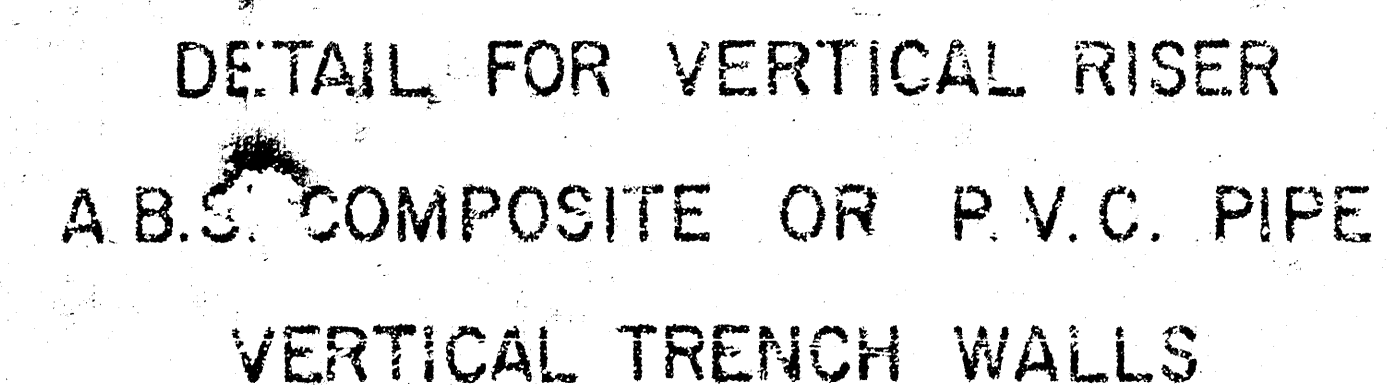
RISERS SHALL BE INSTALLED TO SERVE ALL PROPERTY WHICH IS PRESENTLY DEVELOPED WHEN THE MAIN SEWER LINE IS IN GROUND WATER OR WHEN THE MAIN SEWER LINE IS DEEPER THAN 8 FEET. RISERS SHALL BE INSTALLED TO SERVE UNDEVELOPED PROPERTY ONLY WHEN THE MAIN SEWER IS IN GROUND WATER. SIX INCH RISERS SHALL BE INSTALLED TO SERVE COMMERCIAL OR INDUSTRIAL PROPERTY AND FOUR INCH RISERS SHALL BE INSTALLED TO SERVE RESIDENTIAL PROPERTY. LOCATION OF RISERS TO SERVE DEVELOPED PROPERTY SHALL BE APPROVED BY THE PROPERTY OWNER. STUBS SHALL BE INSTALLED IN MANHOLES WHERE LOCATIONS OF MANHOLES WILL PROVIDE SATISFACTORY SERVICE CONNECTIONS AS DETERMINED BY THE FIELD ENGINEER OR AS SHOWN BY THE PLANS. ENCASEMENT OF VITRIFIED CLAY MAIN SEWER PIPE SHALL EXTEND TO THE FIRST JOINT IN THE MAIN SEWER PIPE ON EACH SIDE OF THE RISER INSTALLATION. ENCASEMENT OF 4" OR 6" VITRIFIED CLAY RISER PIPE SHALL EXTEND TO THE FIRST JOINT WHICH IS 1 FOOT OR MORE ABOVE THE MAXIMUM WATER TABLE ELEVATION.



FURNISHING AND INSTALLATION WORK SHALL BE PAID FOR AT THE CONTRACTOR BID FOR 4" PIPE, 8" PIPE, AND 12" PIPE. FITTINGS ENCUMBRANCE FOR THE ABOVE PIPE SIZE INSTALLATION WHICH PRICE SHALL INCLUDE ALL COSTS FOR SUPPLY OF MATERIAL INCLUDING TEE UNIONS, TAPPING AND FITTINGS AND ALL OTHER NECESSARY MATERIAL OR LAB. CHARGES AND ALL CLAY JOINT BEARING THE SHALL BE COMPLETED BY THE CITY PUBLIC WORKS DEPARTMENT. THE ABOVE WORK SHALL BE PAID AROUND OF THE CITY IF WORK IS STOPPED. THE QUALITY OF SERVICE, THE OPERATION OF THE TOP OF THE RIVER, AND THE QUANTITIES ALLOWED. CONTRACTOR RETAIN FOR SUPPLYING AND INSTALLING INSIDE PIPE SHALL BE PAID BY THE ELECTRIC. THE END OF INSIDE PIPE SHALL BE TAPPED AND PLUGGED UNLESS FITTINGS PROVIDED BY THE MANUFACTURER OF THE PIPE.



RISERS SHALL BE INSTALLED TO SERVE ALL PROPERTY WHICH IS PRESENTLY DEVELOPED WHEN THE MAIN SEWER LINE IS IN GROUND WATER OR WHEN THE MAIN SEWER LINE IS DEEPER THAN 8 FEET. RISERS SHALL BE INSTALLED TO SERVE UNDEVELOPED PROPERTY ONLY WHEN THE MAIN SEWER IS IN GROUND WATER. SIX INCH RISERS SHALL BE INSTALLED TO SERVE COMMERCIAL OR INDUSTRIAL PROPERTY AND FOUR INCH RISERS SHALL BE INSTALLED TO SERVE RESIDENTIAL PROPERTY. LOCATION OF RISERS TO SERVE DEVELOPED PROPERTY SHALL BE APPROVED BY THE PROPERTY OWNER. STUBS SHALL BE INSTALLED IN MANHOLES WHERE LOCATIONS OF MANHOLES WILL PROVIDE SATISFACTORY SERVICE CONNECTIONS AS DETERMINED BY THE FIELD ENGINEER OR AS SHOWN BY THE PLANS. ENCASEMENT OF A.S.S. COMPOSITE OR P.V.C. MAIN SEWER PIPE SHALL EXTEND A MINIMUM OF 3 FEET ON BOTH SIDES OF THE CENTERLINE OF THE RISER. FOUR INCH OR SIX INCH RISER PIPE SHALL BE ENCASED TO THE TOP OF THE SEND AS INDICATED IN THE DRAWINGS. FURNISHING AND INSTALLING RISERS SHALL BE PAID FOR AT THE UNIT PRICES BID FOR 4" PIPE, 8" PIPE, AND REINFORCED CONCRETE ENCASEMENT FOR THE VARIOUS MAIN SEWER PIPE SIZES INDICATED WHICH PRICE SHALL INCLUDE ALL COSTS FOR COMPLETION OF THIS ITEM INCLUDING THE



CONCRETE ENCASLEMENT OF 12" DIA. RISER PIPE TO THE TOP OF THE LINDS IS SHOWN BY THE DRAWING WILL NOT BE PAID FOR DIRECTLY AND THE COST FOR THIS WORK SHALL BE CONSIDERED AS SUBSIDIARY TO THE OTHER ITEMS OF WORK. THE PROJECT RESPECTOR SHALL KEEP A RECORD OF THE STATION OF RISERS INSTALLED, THE DIRECTION OF SERVICE, THE ELEVATION OF THE TOP OF THE RISER, AND THE TAY QUANTITIES INVOLVED. CONTRACTOR'S METHOD FOR SUPPORTING AND BRACING RISER PIPE SHALL BE APPROVED BY THE ENGINEER. THE ENDS OF RISER PIPE SHALL BE CAPPED OR PLUGGED USING FITTINGS FURNISHED BY THE MANUFACTURER OF THE RISER PIPE.

VERTICAL RISER DETAIL
ADOPTED AS STANDARD DESIGN
BY
ENGINEERING DIVISION