CH ENGINEERING
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PROJECT REFERENCE NO.	SHEET NO.
W5206-AG	UO-05
SEWER LINE RELOCATION	

UTILITY ENGINEER

NOTE:
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS

8/17/99

REVISIONS

10' MIN. SEPARATION TO WL

STA 95+08.03 NEW 4' DIA MH

APPROX. 12' FROM NEW RETAINING WALL

STA 95+69.83 REUSE EXISTING MANHOLE. PROVIDE NEW OUT

INTERCEPT 4" FM. LOWER NEW DIP AROUND THE PROPOSED STORM SYSTEM & WATER PIPE.

PROPOSED 6" DIP WATER. SEE SHT UO-04

LOCATE SERVICE AND TIE TO LINE WITH SERVICE SADDLE. PROVIDE CLEANOUT IF BEND IS REQ'D FOR CONNECTION.

STA 92+80±TIE TO EXISTING MANHOLE. SEAL EXISTING INVERT AFTER NEW LINE IS IN OPERATION.

EX. 6" PVC WL (DATUR)

UTILTY VAULT FOR FOC BY OTHERS

END RET. WALL

50 0 25 50 100

QUANTITIES:
285 LF OF NEW 12" DIP
1 EA 4' MH
48 LF OF NEW 4" DIP FORCEMAIN
2 EA 4" 22.5° BENDS (VERTICAL)

COORDINATE WITH UNIVERSITY FOR THE OPERATION PUMP STATION. WET WELL SHALL BE EMPTY PRIOR TO WORK ON FORCEMAIN. PUMP AND HAUL AS NECESSARY.

CONTRACTOR TO MINIMIZE DISRUPTIONS TO SERVICE. NEW GRAVITY LINE SHALL BE OPERATIONAL PRIOR TO ABANDONING THE EXISTING LINE.

CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING OF SEWER LINE.

ABANDON EX. PIPE IN PLACE. PIPE WILL BE REMOVED DURING EXCAVATION OF HC RAMP BY THE GRADING CONTRACTOR.

(2)

NEW 4'Ø MH WILL BE IN GRASS BEHIND NEW C&G AND WILL BE APPROX. 0.5' HIGHER THAN EXISTING GRADE.

(3)

REBUILD THE BASE OF EX. MANHOLE AT STA 95+69.83 TO CREATE CHANNEL TO NEW INVERT OUT.

SEWER RELOCATION PERMITTED BY
15A NCAC 02T .303(a) 4 D

STA 90+00 EX. MH

STA 92+80±EX MH
EX. 12" TC OUT = 179.09'
NEW 12" IN = 179.29'
TOP = 187.51'±

STA 95+08.03 NEW 4' MH
NEW 12" OUT = 180.65'
NEW 12" IN = 180.45'
TOP = 188.70'±

STA 95+69.83 EX. MH
NEW 12" OUT = 180.95'

EX. GAS

EX. 12" TC @ 0.53%

36" MIN

224 LF 12" DIP @ 0.50%

62 LF 12" DIP @ 0.50%

EX. GRADE

PROVIDE MIN. 18" SEPARATION BENEATH PROPOSED 6" DIP WATER LINE

PROVIDE MIN. 24" SEPARATION BENEATH PROPOSED 15" RCP STORM

PROPOSED 12" WL. 18" MIN SEPARATION. SEE UC-05

FUTURE CONDUIT. DEPTH UNKNOWN

FUTURE CONDUIT. DEPTH UNKNOWN

EX. GAS. TO BE RELOCATED BY GAS COMPANY. DEPTH UNKNOWN

PROVIDE 22.5° VERTICAL BENDS (RJ OR BLOCKED) AS NEEDED TO AVOID PROPOSED WATER AND STORM SEWER

APPROX. LOCATION OF PROPOSED GAS LINE

190 180 170 160 150

90+00 90+50 91+00 91+50 92+00 92+50 93+00 93+50 94+00 94+50 95+00 95+50 96+00

$USERNAME$ $DESIGNS$ $SYSTIME$