# Legend

* Pay Stub
  + Anything not in [], {}, or () are constant
  + [] = variable
  + {} = calculated information
* NACHA File
  + Sources
    - <https://www.treasurysoftware.com/ach/how-do-i-create-an-ach-nacha-file-detailed-file-format.aspx>
    - <https://secureinstantpayments.com/sip/help/interface_specs/external/NACHA_format.pdf>
  + 10 records = 1 block
  + [] = variable
    - Any number inside indicate length
  + Variable names
    - BnkRt = Company’s bank’s routing number
    - FedID = Company’s Federal ID
    - BankName = Company’s bank name
    - CompName = Company’s name
    - Blank = Blank Spaces
    - EmpRoute = Employee’s bank’s routing number
    - LastEmpRoute = Last digit of EmpRoute
    - EmpActNum = Employee’s bank account number
    - Amount = Amount of payroll after taxes and deductions
    - EmpName = Employee's name
    - SequenceNumber = 0000000 + 100 + (1 EmployeePositionInList - 1)
      * So, 0000101, 0000102, etc.
    - #Trans = Number of transactions
    - SumOfFirst8DigitsEachRoute = Add the first 8 digits of each employee’s routing number
    - TotalCredit = Total amounts (payroll total)
    - #Batches = Number of batches
      * This will always be 1 in our case
    - #Block = Number of lines round up to nearest 10 and divided by 10
    - TotalDebit = Total amount of debits
      * Should be 0 in our case always

# Pay Stub Layout

[MM/DD/YYYY]

[Emp ID] [First Name] [Middle Initial] [Last Name]

[Address]

[City], [State] [Zip]

[Company Name]

[Company Address]

[Company City], [Company State] [Company Zip]

[Company Phone Number]

Compensation Hrs. Rate Current

Reg. Hours……. [99.99] @ [99.99] {Hrs. \* Rate OR Salary}

Gross Pay……… {Everything above}

Net Adj. Gross. {Gross Pay – Other W/H}

Deductions Current

FICA………………. {RegHours \* SSRate}

Med………………. {RegHours \* MedRate}

State Tax……….. {RegHorus \* StateRate}

Federal W/H….. {RegHours \* FedRate}

Other W/H…….. {RegHours \* OtherDeductionsRate + OtherDeductionsFlat}

[Bank Name]: XXXX[Last 4 Digits of Bank Account] {Gross Pay – {All Deductions}}

# NACHA File

[FileHeader]

[BatchHeader]

[EntryDetail1]

…

[EntryDetailLast]

[BatchFooter]

[FileFooter]

File Header (Top; Once)

101 [9BnkRt] 1[9FedID][YYMMDD][HHMM]A094101[23BankName][23CompName][8Blank]

Batch Header (Occurs once for this project)

5220[16CompName][20Blank]1[9FedID]PPDPayroll[3Blank][YYMMDD][YYMMDD][3Blank]1[8BnkRt] 0000001

Entry Detail/Transaction

622[8EmpRoute][1LastEmpRoute][17EmpActNum][10Amount][15Blank][22EmpName][2Blank]0[8BnkRt][7SequenceNumber]

Batch Footer

8220[6#Trans][10SumOfFirstEightDigitsEachRoute][12Zero][12TotalCredit]1[9FedID][25Blank][8BnkRt] 0000001

File Footer (Bottom; Once)

9[6#Batches][6#Block][8#Transactions][10SumOfFirstEightDigitsEachRoute][12TotalDebit][12TotalCredit]