

jo num: 15-0845565-00 loc num: 8400 supervisor: 8410B PAGE: 01 of 08  
job type: 558 specific budget: copy no: 06 on: 03/09/16  
job summary: RETIRE 7595' OF LP CI AND P bad weather (y/n): Y  
job desc: MAINS-LEAKAGE ELIMINATION (RET.) status: PL

cdc map num: SLAW14 system number: 80001004 HP maop: 99.0  
located at: S UNION  
begin street num: end street num:  
between:  
and:  
also known as:  
city: LAWRENCE zip:

originated by: U124000 on: 04/07/15 updated by: U127920 on: 03/09/16  
wms related jo num: 15-0845564-00 dis related jo num:  
project id: 15-29388 project name: 8400 - UNION - REPL  
co/contract cd: B reimbursable (y/n): N income tax (y/n): N  
facility type: MN facility id:  
function type: function id:  
co premise id: psid:  
county name: ESSEX  
taxing district: 0000402 mult tax dist (y/n): \_  
incorporated place: LAWRENCE  
county subdivision:  
assess district 1:  
assess district 2:  
permits required:

committed date: 12/15/16 target date: 09/30/16 start date:  
total duration time: 16:00 num in crew: 1 retirement code: 06

scheduling:

REPLACE 7595' OF LP CI AND PH GAS MAIN WITH 4115' OF LP AND HP PH GAS MAIN  
ON S. UNION STREET AND NEIGHBORING STREETS. THE MAJORITY OF THIS PROJECT  
IS TAKING PLACE ON S. UNION STREET, FROM WINTHROP ST TO MARKET ST.  
THE DRIVER FOR THIS PROJECT IS THE PLANNED LAWRENCE WATER WORK TO TAKE  
PLACE ON S. UNION STREET NEXT TO DUAL LP CI MAINS.  
ESTIMATED DURATION OF 96 DAYS FOR 2 CREWS AND 2 POLICE WORKING THROUGHOUT.  
ESTIMATED NUMBER OF AFFECTED SERVICES: 93 (65 REPLACEMENTS AND 28  
TIE-OVERS)  
A WELDER WILL BE NEEDED.  
ESTIMATED COST WITH SERVICES: \$1,490,614

\*\*\*\*\* M A I N S \*\*\*\*\*

operating press: HP system number: 80001004  
maop: 99.0 psig main number:  
design maop: 100.0 psig med number: 0031921  
test press: 150.0 psig other market affected:  
nlds number: other system affected: 80001016  
lea number: 000000000  
footage to install: 7595 ft  
method of tie in: COUPLE material code: CI  
service lines: 00000 meter moves: 00000  
reconnects: 00000 other: 00000

\*\*\*\*\* M A I N E V A L U A T I O N D A T A S H E E T \*\*\*\*\*

material type: type of joint:  
 system number:  
 operating press: corrosion control:  
 adjacent to: predom main cover:  
 type of area: attachments: N

feet of main evaluated: 0 main number:  
 year pipe mitigated: existing main size: 0  
 year installed: recommended replacement size: 0  
 most recent leak survey date:

OPEN services: grade 1: 0 grade 2: 0 grade 3: 0  
 ORDERS mains: grade 1: 0 grade 2: 0 grade 3: 0

dpi/mex yr located at lk prob cs clr clmp ftg ppe cr pit  
 number gd lk sc cd cd inst exps cnd cd cd

replace/repair code: 3

A. main replacement estimate (use jo num: ) ..... \$ 85000  
 B. estimated cost of service...replacement-num 0 at \$ 0 +  
     reconnect -num 0 at \$ 0 = \$ 0  
 C. estimated cost to clear leak areas main-num 0 at \$ 0 +  
     serv-num 0 at \$ 0 = \$ 0  
 D. calculated replace/repair ratio=A+B/C ..... 99.9  
 E. estimated time (in years) until next leak develops on main .... 1  
 F. company replace/repair ratio ..... 9.7

--recommendation for replacement--  
 economic: N other/comments: Y

remarks:  
 MAIN BEING REPLACED DUE TO LAWRENCE WATER WORK

\*\*\*\*\*DIG AND BACKFILL/REIMBURSING/CUSTOMER ADVANCE INFORMATION \*\*\*\*\*

basis: estimated amount: date pymt recd:

name & :

address

dig & backfill footage: 0 rate: 0.00 cost: 0

\*\*\*\*\* C O S T S U M M A R Y \*\*\*\*\*

classification code/percent:	2 :100.00%	:	0.00%		
materials cost:	0			subtotal:	3560
stores expense: 0.000% cost:	0		afudc: 0.245%	cost:	11
contract cost:	2379		seg&a: 26.600%	cost:	947
labor hours: 16 labor cost:	720				
vac/non-prod: 19.456% cost:	140		total estimated cost:		4518
labor overhead: 37.373% cost:	321		income tax: 0.000%	cost:	0
other cost:	0		total duration time:		16:00
			maximum crew size:		1

\*\*\*\*\* A T T A C H M E N T S \*\*\*\*\*

detail: X sketch: \_

\*\*\*\*\* A P P R O V A L S \*\*\*\*\*

<u>Louie DeRoxas, [REDACTED], Field Engineer</u>	<u>3/9</u>	, 20 <u>16</u>
_____	_____	, 20____
_____	_____	, 20____
_____	_____	, 20____
_____	_____	, 20____

CERTIFICATE I CERTIFY THAT ALL COMPONENTS ON THIS PROJECT ARE DESIGNED IN ACCORDANCE WITH THE COLUMBIA GAS DIST COMPANIES POLICY/PROCEDURE MANUAL  
 ENGINEERING REPRESENTATIVE: [REDACTED] 3/9, 2016

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\*\*\*\*\* S O D A N D P A V I N G \*\*\*\*\*

surface broken by: \_\_\_\_\_ date broken: \_\_\_\_\_ 1

surface broken: \_\_\_\_\_ ft from: \_\_\_\_\_

and: \_\_\_\_\_ ft from: \_\_\_\_\_

type broken: \_\_\_\_\_

size of opening: \_\_\_\_\_ X \_\_\_\_\_

depth inches: \_\_\_\_\_

surface as found: \_\_\_\_\_

surface as left: \_\_\_\_\_

authorized repair size: \_\_\_\_\_ X \_\_\_\_\_ completed (y/n) \_\_\_\_\_ (no f.a.r.)

authorized repair surface: \_\_\_\_\_

actual repair size: \_\_\_\_\_ X \_\_\_\_\_

actual repair kind: \_\_\_\_\_

repaired/completed by: \_\_\_\_\_ contractor name: \_\_\_\_\_

charge : \_\_\_\_\_ : \_\_\_\_\_ % \_\_\_\_\_ : \_\_\_\_\_ % \_\_\_\_\_ : \_\_\_\_\_ %

to jo#s \_\_\_\_\_ : \_\_\_\_\_ % \_\_\_\_\_ : \_\_\_\_\_ % \_\_\_\_\_ : \_\_\_\_\_ %

\_\_\_\_\_ : \_\_\_\_\_ % \_\_\_\_\_ : \_\_\_\_\_ % \_\_\_\_\_ : \_\_\_\_\_ %

\*\*\*\*\* S O D A N D P A V I N G \*\*\*\*\*

surface broken by: \_\_\_\_\_ date broken: \_\_\_\_\_ 2

surface broken: \_\_\_\_\_ ft from: \_\_\_\_\_

and: \_\_\_\_\_ ft from: \_\_\_\_\_

type broken: \_\_\_\_\_

size of opening: \_\_\_\_\_ X \_\_\_\_\_

depth inches: \_\_\_\_\_

surface as found: \_\_\_\_\_

surface as left: \_\_\_\_\_

authorized repair size: \_\_\_\_\_ X \_\_\_\_\_ completed (y/n) \_\_\_\_\_ (no f.a.r.)

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charge : \_\_\_\_\_ : \_\_\_\_\_ % \_\_\_\_\_ : \_\_\_\_\_ % \_\_\_\_\_ : \_\_\_\_\_ %

to jo#s \_\_\_\_\_ : \_\_\_\_\_ % \_\_\_\_\_ : \_\_\_\_\_ % \_\_\_\_\_ : \_\_\_\_\_ %

\_\_\_\_\_ : \_\_\_\_\_ % \_\_\_\_\_ : \_\_\_\_\_ % \_\_\_\_\_ : \_\_\_\_\_ %

\*\*\*\*\* P I P E E X P O S U R E \*\*\*\*\*

located at: \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

county: \_\_\_\_\_ city: \_\_\_\_\_ map num: \_\_\_\_\_

begin street num: \_\_\_\_\_ end street num: \_\_\_\_\_

between: \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

and: \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

exposure type: \_\_\_\_\_

material: \_\_\_\_\_ pipe cond: \_\_\_\_\_ corrosion: \_\_\_\_\_ pits code: \_\_\_\_\_ intrnl corr: \_\_\_\_\_

ctg cond: \_\_\_\_\_ ctg type: \_\_\_\_\_ ftg expsd: \_\_\_\_\_ depth cvr: \_\_\_\_\_ in mtl rmv: \_\_\_\_\_

year installed: \_\_\_\_\_ num existing clamps: \_\_\_\_\_ pipe size code: \_\_\_\_\_

corr contrl type: \_\_\_\_\_

num clamps installed: \_\_\_\_\_ number anodes installed: \_\_\_\_\_ op press: \_\_\_\_\_

pipe to soil reading: \_\_\_\_\_ volts surface cover: \_\_\_\_\_

\*\*\*\*\* P I P E E X P O S U R E \*\*\*\*\*

located at: \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

county: \_\_\_\_\_ city: \_\_\_\_\_ map num: \_\_\_\_\_

begin street num: \_\_\_\_\_ end street num: \_\_\_\_\_

between: \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

and: \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

exposure type: \_\_\_\_\_

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