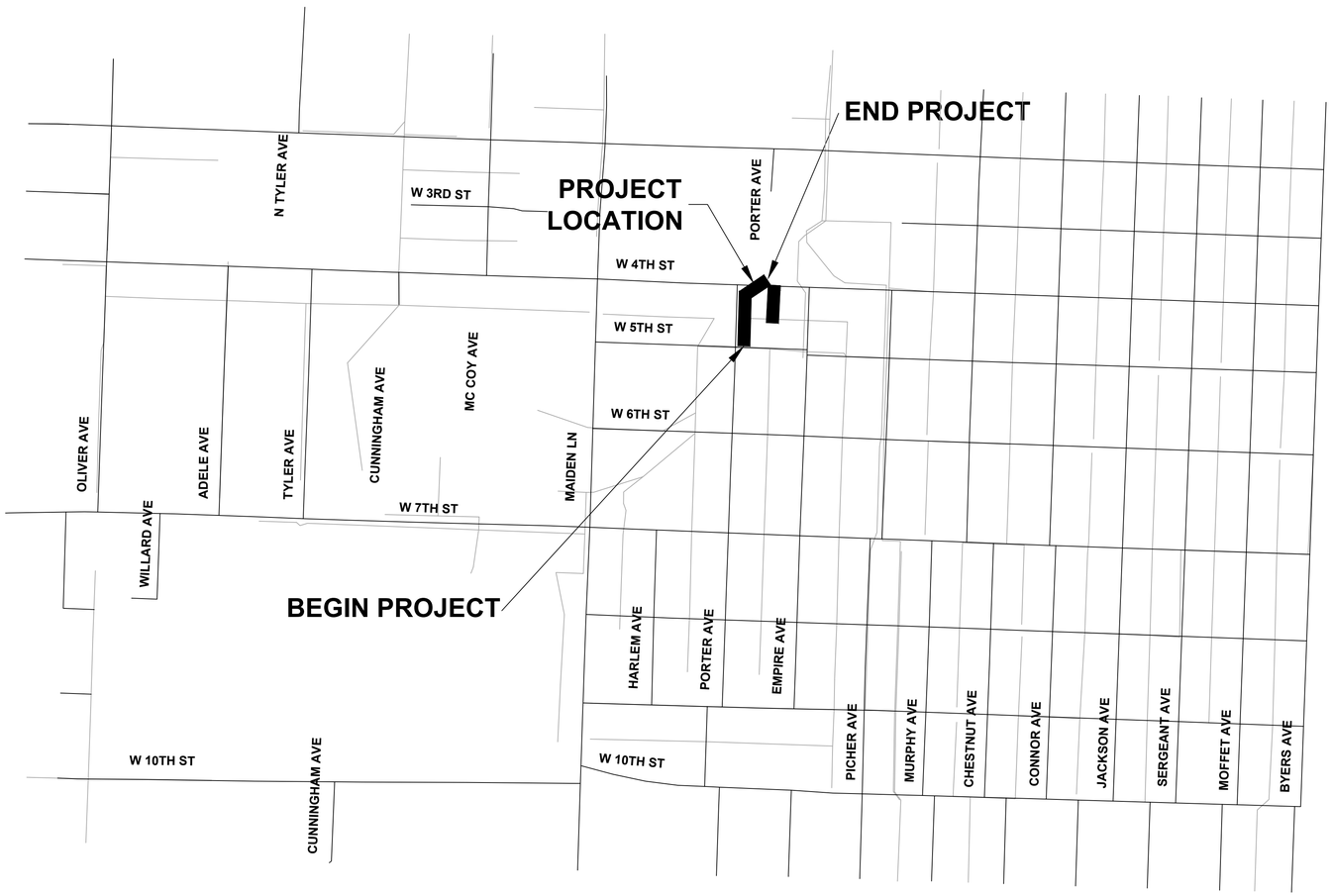
4th AND PORTER
REMOVE AND REPLACE FAILED CMP



INDEX OF SHEETS

DESCRIPTION	DWG NO
COVER SHEET	1
SUMMARY OF QUANTITIES	2
PLAN & PROFILE SHEET	3
DEMO PLAN	4
SECTIONS	5
EROSION CONTROL PLAN	6
TRAFFIC CONTROL PLAN	7

GENERAL NOTES:

1. CONTRACTOR SHALL, AT HIS EXPENSE, SET & MAINTAIN ALL LINE & GRADE STAKES.
2. CONTRACTOR SHALL, AT HIS EXPENSE, REMOVE AND RESET ALL FENCES, POSTS, CULVERTS, STREET SIGNS, MAIL BOXES, & THE LIKE WITHIN THE LIMITS OF THE PROP IMPROVEMENTS.
3. CONTRACTOR SHALL GRADE ALL EXISTING STREETS, ALLEYS, & DRIVES TO MEET NEW CONST.
4. CONTRACTOR SHALL FIELD VERIFY ALL UTILITY LOCATIONS BEFORE BEGINNING NEW CONST.
5. ALL WORK SHALL CONFORM TO THE CITY OF JOPLIN STD. SPECS. UNLESS OTHERWISE NOTED.
6. FINISHED TRENCH SHALL BE BKFILLED W/ 6" BLACK DIRT, SEEDED, MULCHED, & FERTILIZED.
7. FINISHED TRENCH AT ALL ASPHALT & CONCRETE DRIVE & STREET CROSSINGS SHALL BE FLOODED, BKFILLED W/ CRUSHED STONE, & REPLACED W/ THE PROPOSED STREET REPAIR.
8. ALL WORK SHALL BE IN ACCORDANCE W/ THE WORK ZONE SAFETY GUIDELINES OF PART VI OF THE MUTCD & W/ THE BARRICADING SECTION OF THE CITY OF JOPLIN SAFETY MANUAL.
9. ALL PEDESTRIAN FACILITIES SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF THE ADA.
10. CONTRACTOR SHALL, AT HIS EXPENSE, PROVIDE ACCESS TO PRIVATE PROPERTY AT ALL TIMES.
11. CONTRACTOR SHALL RETAIN THE SERVICES OF A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF MISSOURI, WHO SHALL BE RESPONSIBLE FOR RESTORING OR RE-ESTABLISHING ANY INCIDENTALLY DAMAGED OR DESTROYED SURVEY MONUMENTS NOT SCHEDULED FOR REMOVAL AS PART OF CONSTRUCTION PROJECT. THE CONTRACTOR SHALL NOTIFY THE CITY OF JOPLIN OF ANY MONUMENTS DAMAGED OR DESTROYED BY ANY OTHER OUTSIDE PARTY.

UTILITY NOTE

UTILITIES ARE LOCATED ON DRAWINGS BASED UPON AVAILABLE INFORMATION. THE NUMBER & LOCATION OF UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL CONTACT ALL UTILITIES & MISSOURI DIG RITE AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION & SHALL BE RESPONSIBLE FOR THE EXACT LOCATION & PRESERVATION OF ALL BURIED OR OVERHEAD UTILITY LINES.

MISSOURI ONE CALL SYSTEM, INC. 1-800-344-7483 STOP! CALL BEFORE YOU DIG

4th and Porter.dwg

CITY OF Joplin

CITY OF JOPLIN, MISSOURI
DEPT OF PUBLIC WORKS
DIVISION OF ENGINEERING

ADDRESS: 602 S MAIN ST 64801
PH NO: 417-624-0820 EXT 530
FAX NO: 417-625-4738
E-MAIL: SMARTINE@JOPLINMO.ORG

REV DATE:	REVISION:
00/00	PROJECT CHECK

SVYD BY: OLSSON
PNT FILE: N/A.TXT
SVY DATE: 10/2019
ENGINEER: HERTZBERG

ACAD DWG FILE & PATH NAME: CPringle\Storm Sewer\4th and Porter
SCALES: 1" = 20'

DWN BY: STAFF
CKD BY: STAFF
APD BY: JOHNSON
DATE: 3/2020

PROJECT
4th AND PORTER
REMOVE AND REPLACE FAILED CMP

PLAN NO: 8526
SHEET
1 of 7

SUMMARY OF QUANTITIES

EXCAVATION

COMMON EXCAVATION = 300 CY
COMPACTED FILL = 750 CY
REMOVAL OF UNSUITABLE MATERIAL = 100 CY
REPLACEMENT OF UNSUITABLE MATERIAL = 100 CY
TRANSPORTATION AND DISPOSAL OF CONTAMINATED MATERIAL = 300 CY

CONCRETE STRUCTURES

CURB & GUTTER (INCLUDES 4" STONE BASE) = 515 LF
4" X 5' SIDEWALK (INCLUDES 2" STONE BASE) = 120 SY
4' (PRIVATE) SIDEWALK (INCLUDES 2" STONE BASE) = 6 SY
3' (PRIVATE) SIDEWALK (INCLUDES 2" STONE BASE) = 6 SY
TYPE 'D' ADA RAMP (INCLUDES TRUNCATED DOME) = 8 SY
RESIDENTIAL DRIVEWAY CONSTRUCTION = 52 SY
C.I.P. RCBC END SECTION = 1 EA

BASE & PAVING

8" STONE BASE = 530 SY
2" MODOT STANDARD MIX BP-2 w/ ANTI-STRIP ADD = 530 SY
4" BLACK BASE = 530 SY
ASPHALT PRIMER = 190 GAL

MOBILIZATION

LUMP SUM = 1 EA (NOT TO EXCEED 5% OF TOTAL ESTIMATE)

EROSION CONTROL

MULCH SOCK OR FABRIC SILT FENCE = 1 LUMP SUM
SEEDING, MULCH, & FERTILIZE = .36 AC

TRAFFIC CONTROL

TYPE III BARRICADES = 15 EA
R11-2 SIGNS = 3 EA
R11-4 SIGNS = 6 EA
M4-9L = 4 EA, M4-9R = 4 EA OR M4-10L = 4 EA, M4-10R = 4 EA
W20-1 SIGNS = 3 EA
W20-2 SIGNS = 2 EA
W20-3 SIGNS = 3 EA
CHANGEABLE MESSAGE BOARD = 2 EA

REMOVAL OF EXISTING IMPROVEMENTS

LUMP SUM = 1 EA

REPLACEMENT TREES

JAPANESE TREE LILAC = 2 EA

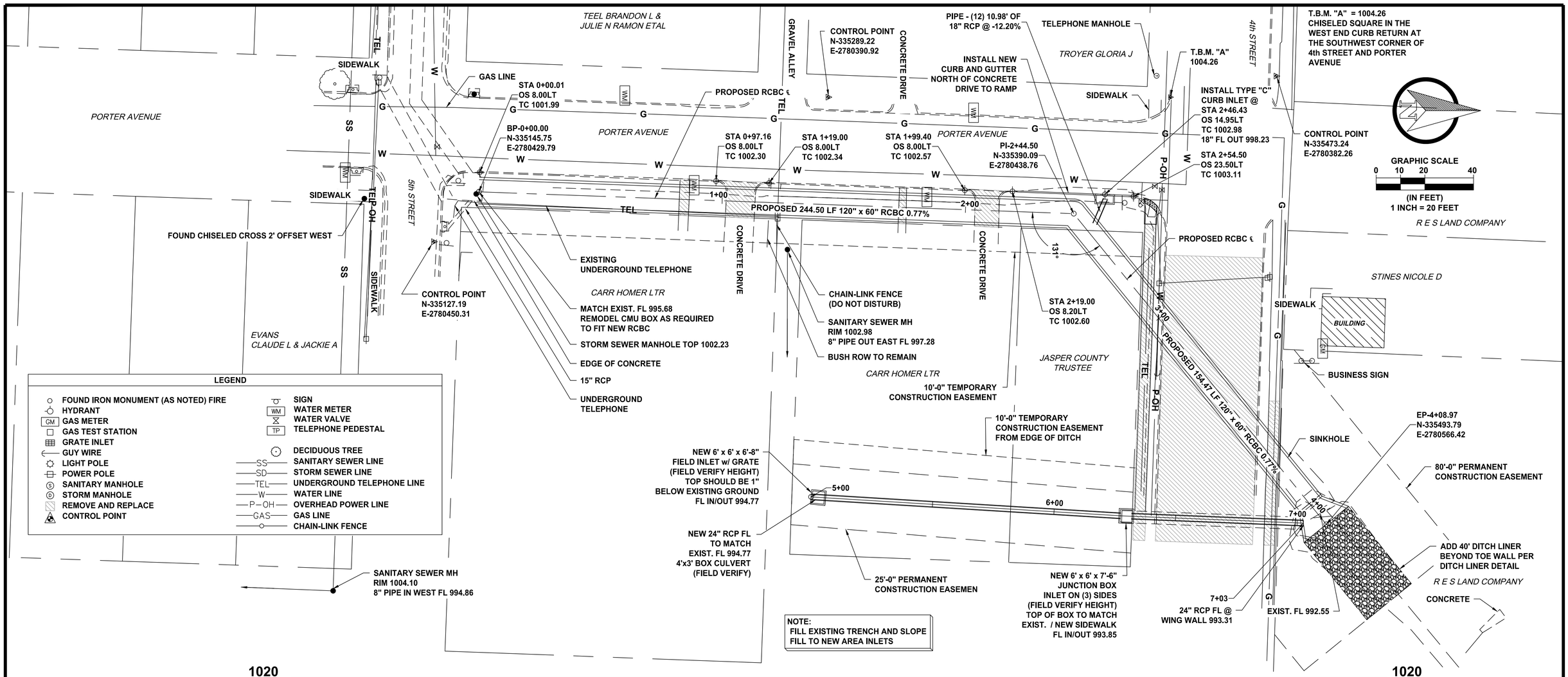
STORM SEWER INSTALLATION

60" x 120" RCBC (INCLUDES BEDDING, COVER, AND TRENCHING) =400 LF
18" RCP (INCLUDES BEDDING, TRENCHING) = 12 LF
24" RCP (INCLUDES BEDDING, TRENCHING) = 210 LF
4' X 8' TYPE 'C' CURB INLETS = 1 EA
TRENCHING - 1' TO 2' DEPTH = 210 LF
STONE BACKFILL IN STREET CROSSING = 260 CY
(1) 6' x 6' x 6'-8" JUNCTION BOX (FIELD VERIFY)
(1) 6' x 6' x 7'-6" JUNCTION BOX (FIELD VERIFY)

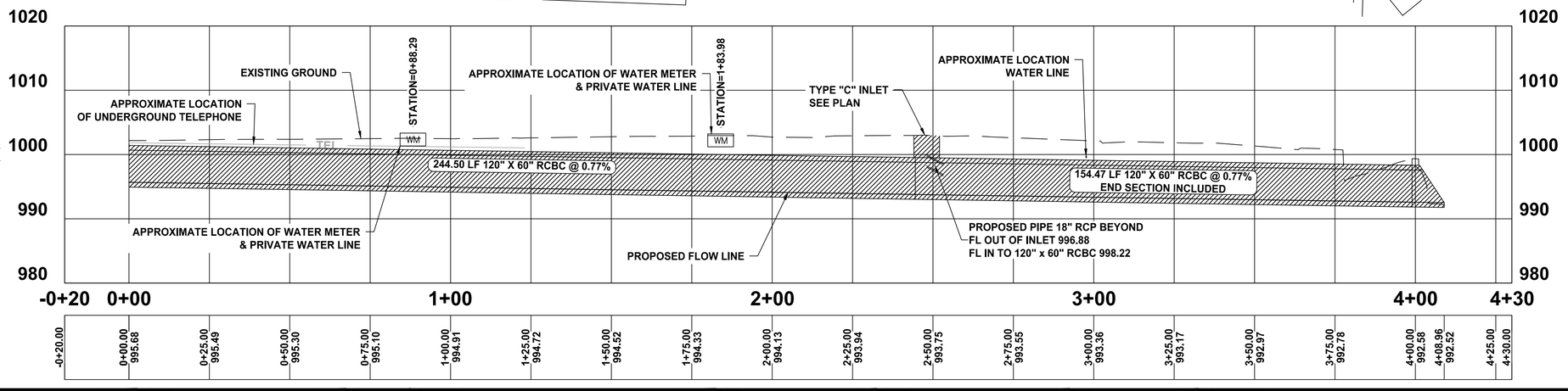
4th and Porter.dwg

MISSOURI ONE CALL SYSTEM, INC 1-800-344-7483 STOP CALL BEFORE YOU DIG

CITY OF Joplin	CITY OF JOPLIN, MISSOURI DEPT OF PUBLIC WORKS DIVISION OF ENGINEERING	ADDRESS: 602 S MAIN ST 64801 PH NO: 417-624-0820 EXT 530 FAX NO: 417-625-4738 E-MAIL: SMARTINE@JOPLINMO.ORG	REV DATE: 00/00	REVISION: PROJECT CHECK	SVYD BY: OLSSON PNT FILE: N/A.TXT SVY DATE: 10/2019 ENGINEER: HERTZBERG	ACAD DWG FILE & PATH NAME: CPringle\Storm Sewer\4th and Porter SCALES: HORZ: 1" = 20' VERT: 1' = 20'	DWN BY: STAFF CKD BY: STAFF APD BY: JOHNSON DATE: 3/2020	PROJECT 4th AND PORTER REMOVE AND REPLACE FAILED CMP	PLAN NO: 8526 SHEET 2 of 7



RCBC PROFILE



PROPOSED FLOW LINE ELEV.

-0+20.00	0+00.00	0+25.00	0+50.00	0+75.00	1+00.00	1+25.00	1+50.00	1+75.00	2+00.00	2+25.00	2+50.00	2+75.00	3+00.00	3+25.00	3+50.00	3+75.00	4+00.00	4+08.96	4+25.00	4+30.00
	995.68	995.49	995.30	995.10	994.91	994.72	994.52	994.33	994.13	993.94	993.75	993.55	993.36	993.17	992.97	992.78	992.58	992.52		

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PROJECT
4th AND PORTER
REMOVE AND REPLACE FAILED CMP

PLAN NO: 8526
SHEET
3 of 7

GRAPHIC SCALE
0 10 20 40
(IN FEET)
1 INCH = 20 FEET

TEEL BRANDON L & JULIE N RAMON ETAL

TROYER GLORIA J

4th STREET

PORTER AVENUE

PORTER AVENUE

PORTER AVENUE

5th STREET

REMOVE AND REPLACE CURB AND GUTTER ALONG EAST SIDE OF PORTER AS REQUIRED

RES. SIDEWALK

REMOVE EXIST. INLET

REMOVE 22" DIA. TREE REPLACE w/ JAPANESE TREE LILAC

RES. DRIVEWAY

REMOVE AND REPLACE EXIST. RAMP w/ TYPE "D" ADA RAMP

EXISITING ℄ 9'-2 15/16" X 5'-8 15/16" CMP

R E S LAND COMPANY

EXISTING ℄ 9'-2 15/16" X 5'-8 15/16" CMP

RES. DRIVEWAY

RES. SIDEWALK

REMOVE 15" DIA. TREE REPLACE w/ JAPANESE TREE LILAC

TELEPHONE PEDESTAL TO BE RELOCATED

REMOVE 36" DIA. TREE

POWER POLE TO BE RELOCATED

STINES NICOLE D

CARR HOMER LTR

CARR HOMER LTR

EVANS CLAUDE L & JACKIE A

JASPER COUNTY TRUSTEE

SIDEWALK

4TH STREET REMOVE AND REPLACE

SIDEWALK

REMOVE EXIST. 6'x5' ARCH RCP FL 993.01 (DIRT BOTTOM)

REMOVE CONCRETE

REMOVE CONCRETE

REMOVE CONCRETE

REMOVE 6'x5' ARCH RCP FL 992.27 (DIRT BOTTOM)

R E S LAND COMPANY

8.0

16.5

7.0

LEGEND

FOUND IRON MONUMENT (AS NOTED) FIRE	SIGN
HYDRANT	WM WATER METER
GM GAS METER	WATER VALVE
GAS TEST STATION	TP TELEPHONE PEDESTAL
GRATE INLET	
GUY WIRE	DECIDUOUS TREE
LIGHT POLE	SS SANITARY SEWER LINE
POWER POLE	SD STORM SEWER LINE
SANITARY MANHOLE	TEL UNDERGROUND TELEPHONE LINE
STORM MANHOLE	W WATER LINE
REMOVE AND REPLACE	P-OH OVERHEAD POWER LINE
CONTROL POINT	GAS GAS LINE
	CHAIN-LINK FENCE

NOTE:
WATER METERS FOR BOTH RESIDENCES WILL NEED TO BE REMOVED AND REPLACED

4th and Porter.dwg

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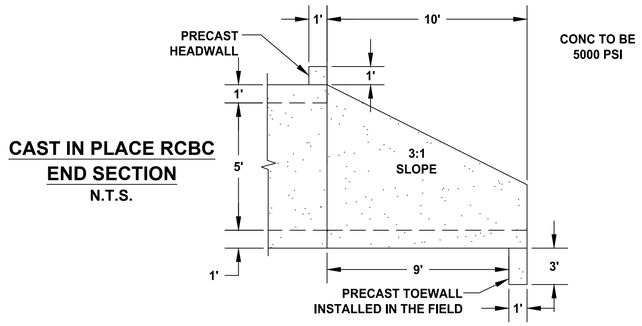
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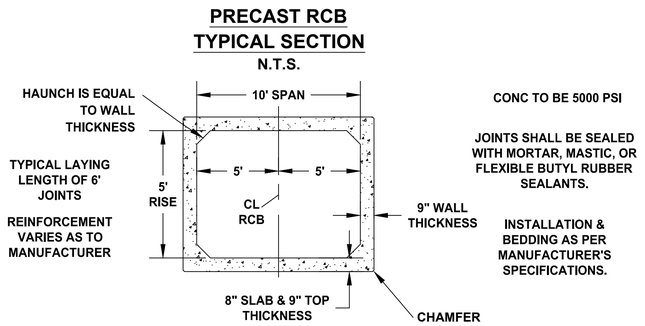
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PROJECT
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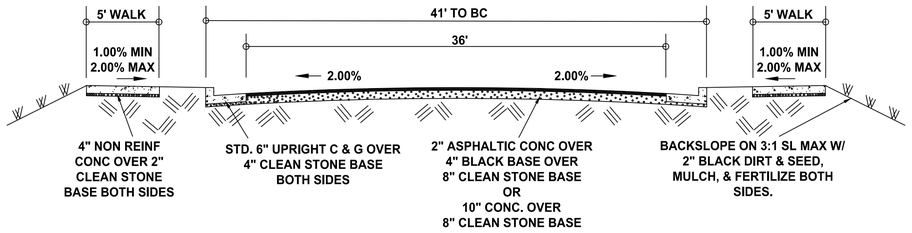
PLAN NO: 8526
SHEET
4 of 7



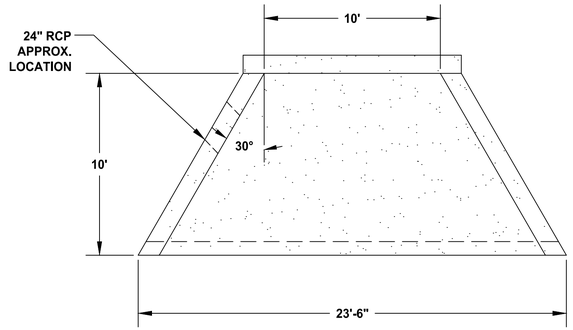
CAST IN PLACE RCBC END SECTION
N.T.S.

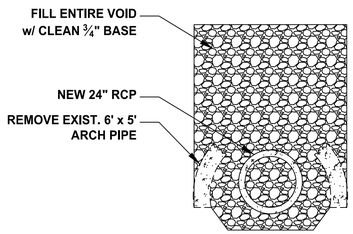


PRECAST RCB TYPICAL SECTION
N.T.S.



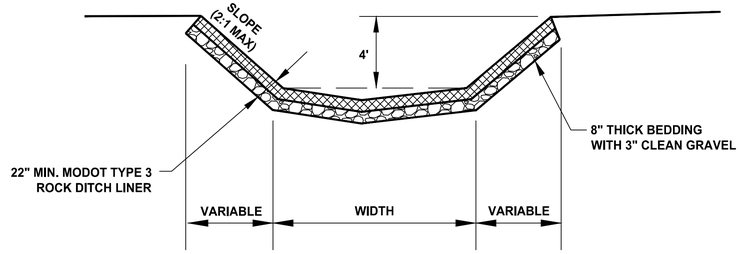
4th STREET REPAIR TYPICAL SECTION
N.T.S.



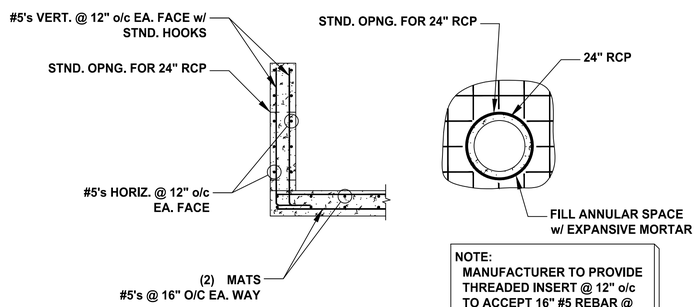


6' x 5' ARCH PIPE TYPICAL SECTION STA 6+27.80 - 6+99.25
N.T.S.

NOTE:
REMOVE 6' x 5' ARCH PIPE IN ORDER TO INSTALL NEW 24" RCP AND CLEAN FILL MATERIAL PER C.O.J. STANDARD DETAILS

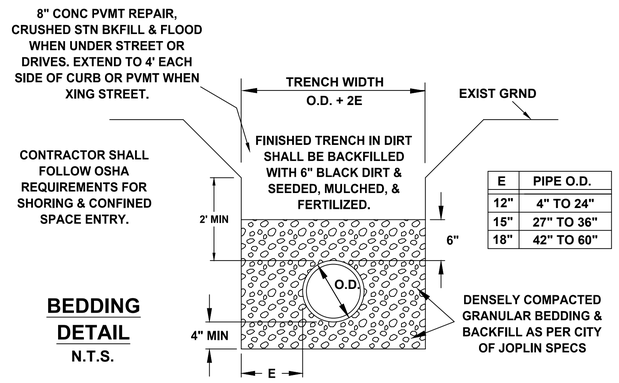


TYPICAL DITCH LINER RIPRAP INSTALLATION
N.T.S.



NOTE:
MANUFACTURER TO PROVIDE THREADED INSERT @ 12" o/c TO ACCEPT 16" #5 REBAR @ WING WALLS AND SLAB FOR CAST IN PLACE END SECTION.

WING WALL , SLAB, AND OPNG. REINFORCEMENT TYPICAL SECTION
N.T.S.



E	PIPE O.D.
12"	4" TO 24"
15"	27" TO 36"
18"	42" TO 60"

BEDDING DETAIL
N.T.S.

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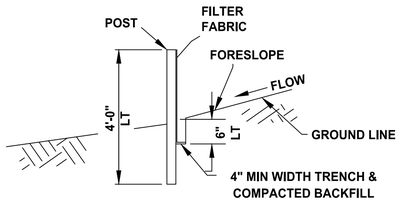
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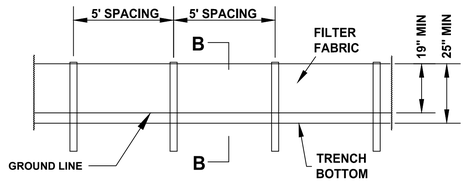
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PROJECT
4th AND PORTER REMOVE AND REPLACE FAILED CMP

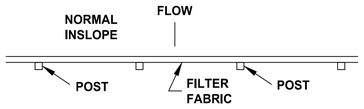
PLAN NO: 8526
SHEET
5 of 7



TYPICAL B-B



ELEVATION DETAIL



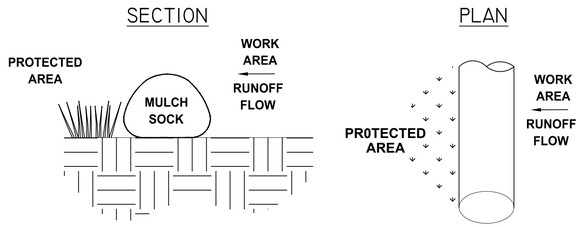
PLAN VIEW
DETAIL A

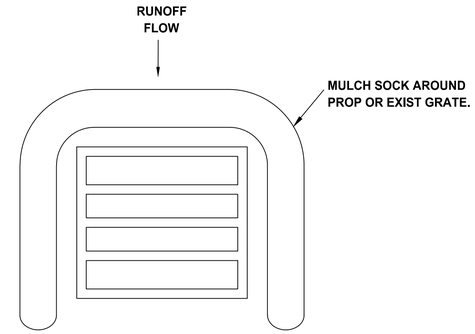
SILT FENCE NOTES:
USE SILT FENCE FOR FILL HEIGHTS GREATER OR EQUAL TO 10'. FOR FILLS GREATER THAN 10' HIGH, MID-SLOPE RUNS OF SILT FENCE SHOULD BE CONSIDERED.

FOR FABRIC SILT FENCE:
MINIMUM LONGITUDINAL SPLICE OVERLAP SHALL BE 2'
WITH A POST AT EACH END.
SECURE FABRIC TO POSTS.

FABRIC SILT FENCE

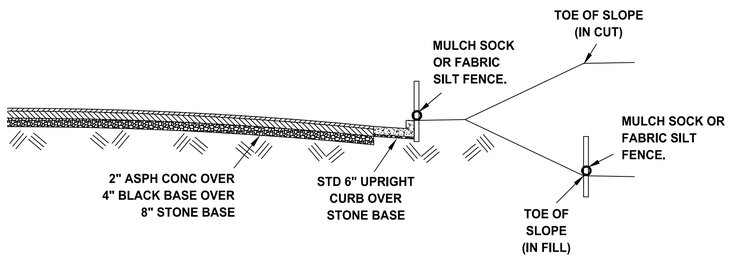
NTS





MULCH SOCK INSTALLATION DETAILS

NTS



EROSION CONTROL DETAIL

NTS

EROSION CONTROL NOTES:

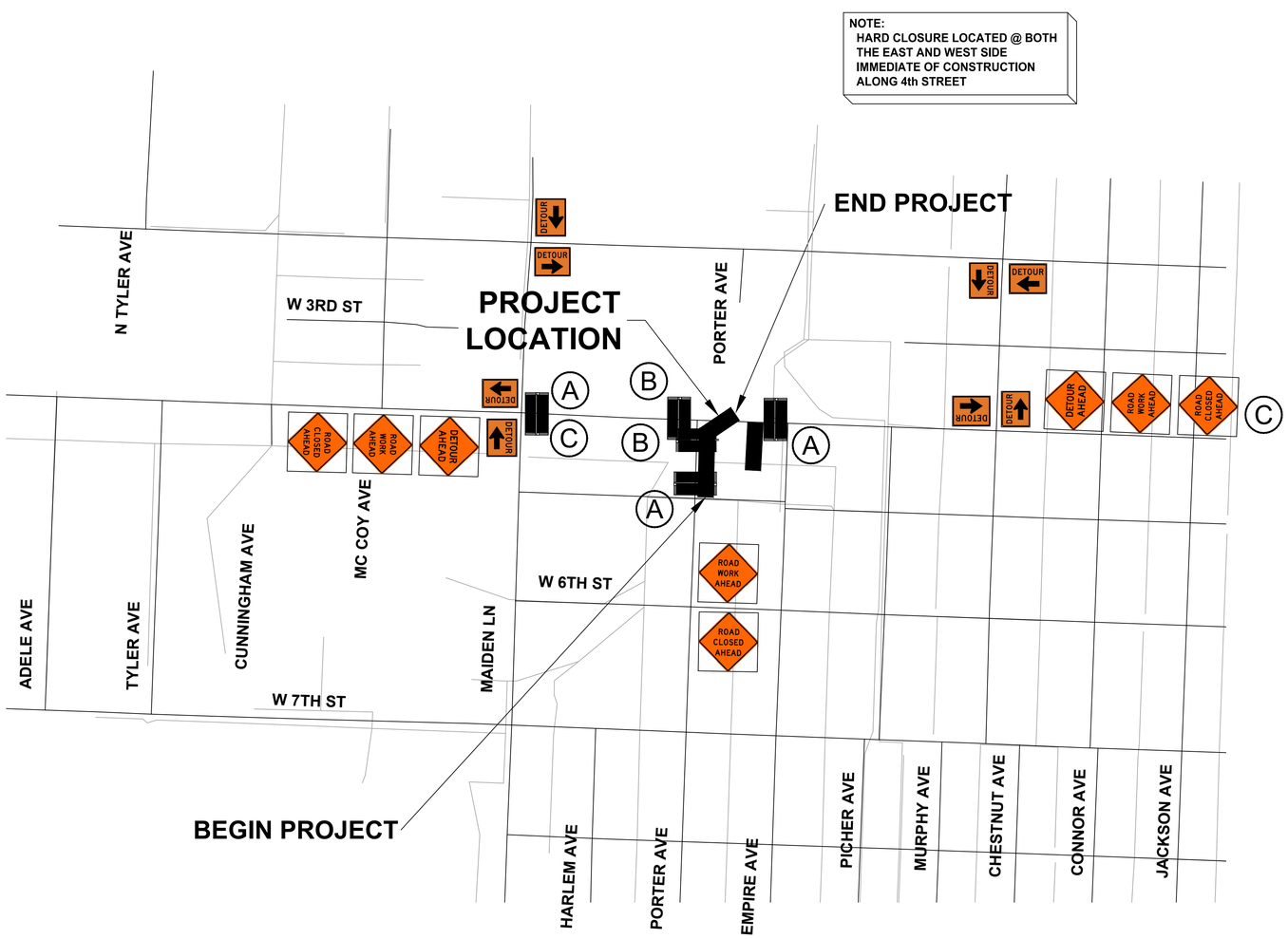
1. TEMPORARY OR FINAL SEEDING SHALL BE DONE IMMEDIATELY UPON COMPLETION OF GRADING.
2. MULCH SOCKS SHALL BE INSTALLED AROUND EACH NEW OR EXISTING CURB INLET.
3. A LINED CONCRETE TRUCK CLEAN OUT AREA IS REQUIRED BY REGULATION.

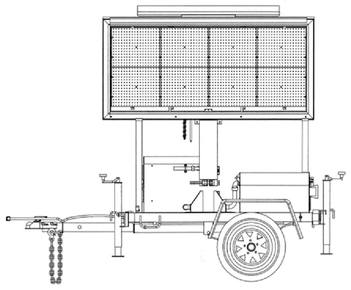
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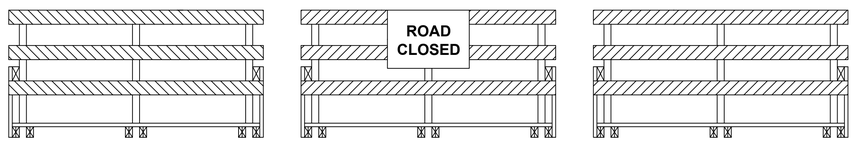
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NOTE:
HARD CLOSURE LOCATED @ BOTH THE EAST AND WEST SIDE IMMEDIATE OF CONSTRUCTION ALONG 4th STREET





Ⓒ
CHANGEABLE MESSAGE BOARD 'C'



TYPE III BARRICADE
Ⓑ

ROAD CLOSED
2-R11-2

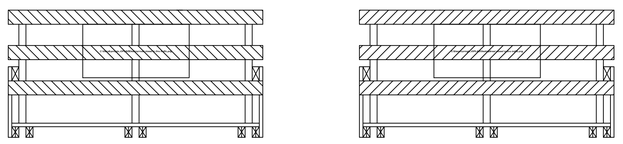
29 *

* MOUNTED BACK TO BACK ON 3 MOVABLE BARRICADES

ROAD HARD CLOSURE DETAIL 'B'



M4-9L&R OR M4-10L&R
W20-1
W20-2
W20-3



R11-4

Ⓐ
ROAD SOFT CLOSURE DETAIL 'A'

NOTE: OFFSET BARRICADES ENOUGH TO ALLOW FOR LOCAL TRAFFIC.

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