

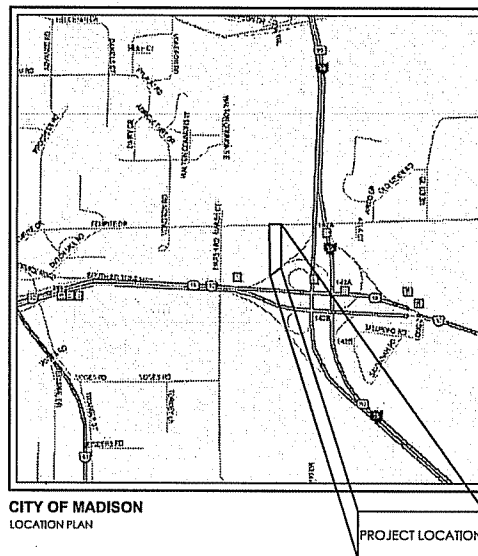
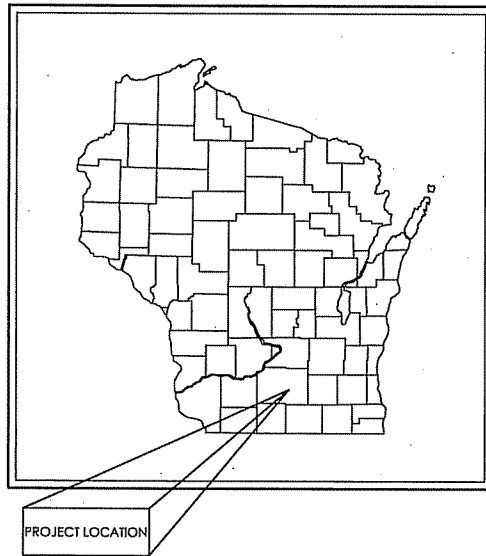
OUTDOOR WOOD CHIPPING PROJECT

ROYAL RECYCLING SERVICE

City of Madison
Dane County, WI
October 2006

OWNER

ROYAL RECYCLING SERVICE
P.O. BOX 6438
CITY OF MONONA, ZIP 53701
PHONE: (608) 221-1919



CITY OF MADISON
LOCATION PLAN

UTILITIES

- ELECTRIC
MG&E
PO BOX 1231
MADISON, WI 53701-1231
PHONE: (608) 252-7272
- TELEPHONE
NONE
- GAS
MG&E
PO BOX 1231
MADISON, WI 53701-1231
PHONE: (608) 252-7272
- CABLE TV
NONE
- WATER
CITY OF MADISON
523 E MARK STREET, WI 53703
PHONE: (608) 266-4652
- MUNICIPALITY
CITY OF MADISON
215 MARTIN LUTHER KING, JR. BLVD.
CITY OF MADISON, WI 53701
PHONE: (608) 266-4635

EXISTING LINETYPES LEGEND

- San ——— SANITARY SEWER
- ST ——— STORM SEWER
- WM ——— WATER MAIN
- FM ——— FORCE MAIN
- E ——— ELECTRIC
- OE ——— OVERHEAD ELECTRIC
- G ——— GAS
- FO ——— FIBER OPTIC
- T ——— TELEPHONE
- TV ——— TV
- x — x — x — FENCE
- GL — GL — GL — GRADING LIMITS
- SF — SF — SF — SILT FENCE
- DB — DB — DB — DOUBLE SEDIMENT BARRIER

ABBREVIATION LIST

- EOP = EDGE OF PAVEMENT
- BOC = BACK OF CURB
- TOW = TOP OF WALL
- ROW = RIGHT OF WAY
- INV = INVERT
- ELEV = ELEVATION
- PVC = POINT OF VERTICAL CURVE
- PVI = POINT OF VERTICAL INTERSECTION
- PVT = POINT OF VERTICAL TANGENT
- PC = POINT OF CURVE
- PI = POINT OF INTERSECTION
- PT = POINT OF TANGENT
- TYP = TYPICAL
- SS = SANITARY SEWER
- ST = STORM SEWER
- R = RADIUS
- TC = TOP OF CURB

SYMBOLS LEGEND

- ⊗ EXISTING MANHOLE
- ⊙ PROPOSED MANHOLE
- ⊗ EXISTING HYDRANT
- ⊙ PROPOSED HYDRANT
- ⊗ VALVE
- ⊙ CURB STOP
- ⊙ WELL
- ⊙ PROPERTY CORNER
- ⊙ LIGHT POLE
- ⊙ POWER / TELEPHONE POLE
- ⊙ GUY WIRE
- ⊙ UTILITY PEDESTAL SIGN
- ⊙ SOIL BORING
- ⊙ MONITORING WELL
- ⊙ MAILBOX
- ⊙ POTENTIAL HAZARD
- ⊙ BENCHMARK
- ⊙ DECIDUOUS TREE
- ⊙ CONIFEROUS TREE
- ⊙ HANDICAP SYMBOL

DIGGERS HOTLINE NOTE



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REVISION	NO.	BY	DATE

TITLE PAGE
Outdoor Wood Chipping Project
Royal Recycling Service

City of Madison
Dane County, WI

GENERAL ENGINEERING COMPANY
810 Sheet Lane Drive
P.O. Box 340
Portage, WI 53001
800-742-2100
608-742-2102 Fax
eng@generaleng.com

DATE: Oct. 2006
BY: SSR
SHEET NO. 0408-87

SHEET TITLE
1.0

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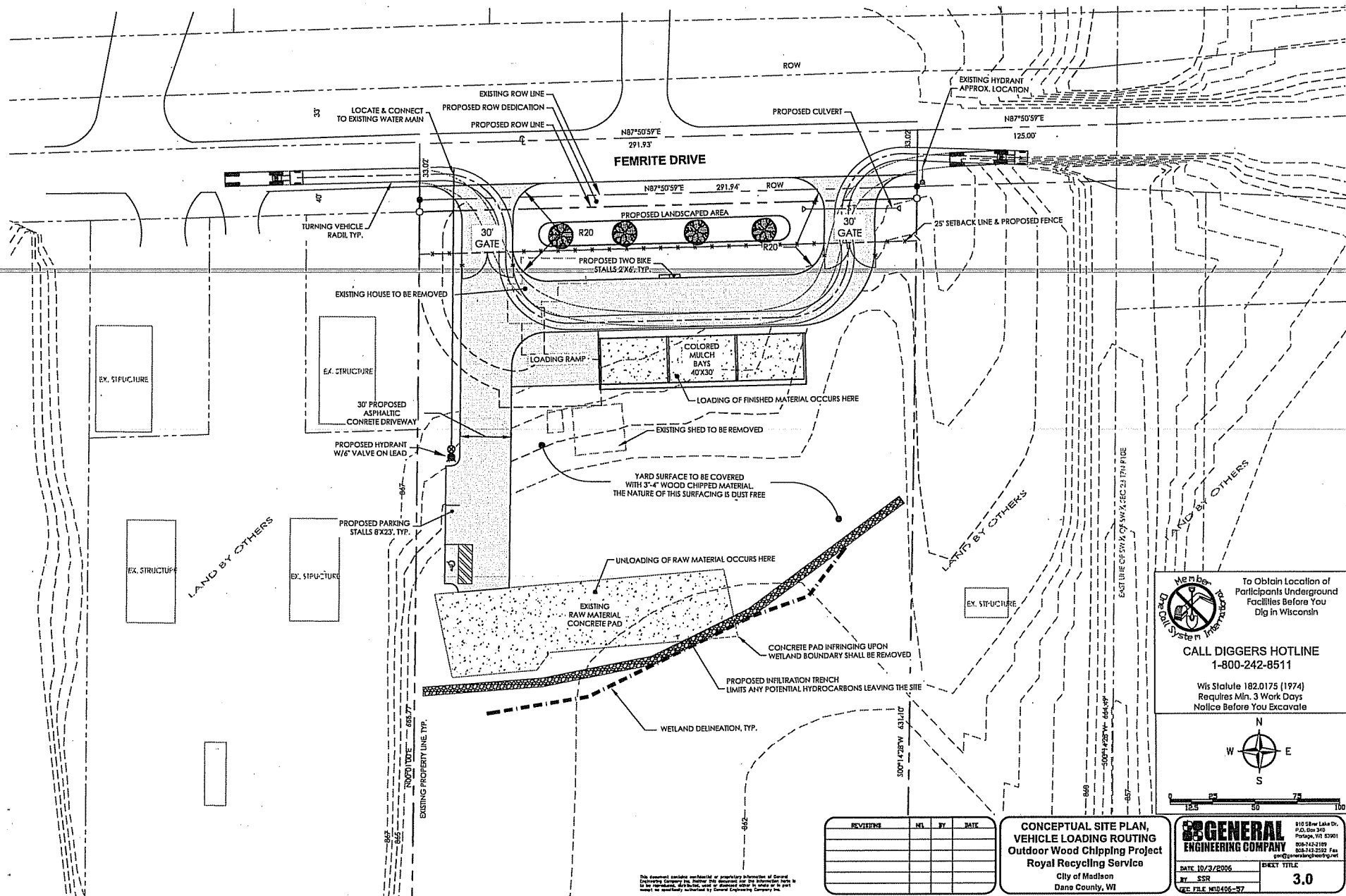
EXISTING SITE PLAN
Outdoor Wood Chipping Project
Royal Recycling Service

City of Madison
Dane County, WI



815 Silver Lake Dr.
P.O. Box 340
Portage, WI 53901
608-742-2188
608-742-2262 Fax
genc@generalengineering.net

DATE 10/3/2006	SHEET TITLE
BY SSR	2.0
SEE FILE NO0406-57	



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**CONCEPTUAL SITE PLAN,
VEHICLE LOADING ROUTING
Outdoor Wood Chipping Project
Royal Recycling Service**
City of Madison
Dane County, WI


To Obtain Location of
Participants Underground
Facilities Before You
Dig in Wisconsin

CALL DIGGERS HOTLINE
1-800-242-8511

Wis Statute 182.0175 (1974)
Requires Min. 3 Work Days
Notice Before You Excavate



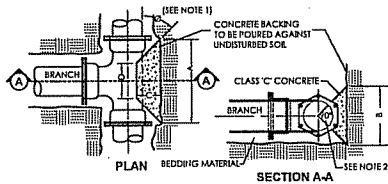


910 Silver Lake Dr.
P.O. Box 3415
Fond du Lac, WI 53501
920-742-2109
920-742-2107 Fax
www.GeneralEngineering.com

DATE: 10/3/2006
BY: SSR
REF. FILE: M10406-37

SHEET TITLE
3.0

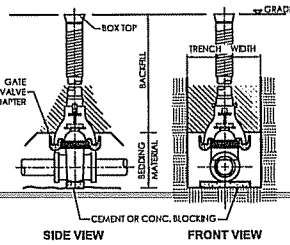
WATER MAIN CONSTRUCTION DETAILS



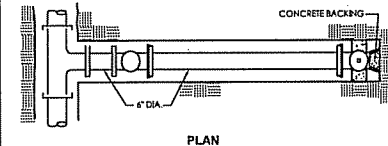
CONCRETE BACKING DIMENSIONS				
B.D.	A	B	C	D
6"	1'-2"	1'-0"		
8"	1'-4"	1'-4"		
12"	2'-2"	2'-0"		
16"	3'-2"	2'-6"		
20"	4'-0"	3'-2"		
24"	5'-0"	3'-8"		
30"	6'-2"	4'-2"		

- NOTES:
1. DIMENSION 'C' SHOULD BE LARGE ENOUGH TO MAKE ANGLE B EQUAL TO OR LARGER THAN 45°.
 2. CONCRETE SHOULD BEAR ON THIS QUADRANT OF PIPE AS A RADIUS.
 3. DIMENSION 'D' SHOULD BE AS LARGE AS POSSIBLE, BUT CONCRETE SHOULD NOT INTERFERE WITH MECHANICAL JOINTS.
 4. CONCRETE BACKING DIMENSIONS ARE BASED ON A SOIL RESISTANCE OF TWO TONS PER SQ. FT. AND A WATER PRESSURE OF 150 P.S.I.

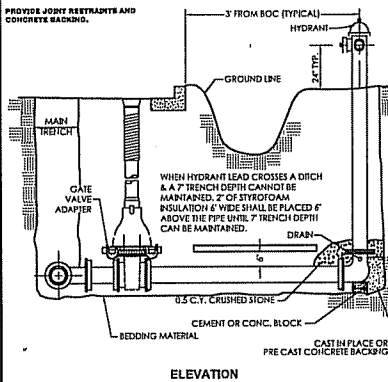
B.D. = BRANCH DIAMETER



CONCRETE BACKING FOR TEES

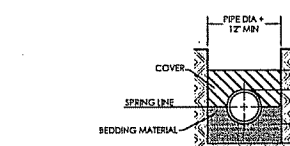


PROVIDE JOINT REINFORCEMENT AND CONCRETE BACKING.



STANDARD HYDRANT SETTING

STANDARD GATE VALVE BOX SETTING



INSTALLATION:
PLACE 4" OF BEDDING MATERIAL BENEATH PIPE. PLACE BEDDING MATERIAL AROUND THE PIPE TO THE SPRING LINE. WORK THE MATERIAL IN AND AROUND THE PIPE BY HAND TO PROVIDE UNIFORM SUPPORT. PLACE COVER MATERIAL CAREFULLY TO A LEVEL 6" ABOVE THE PIPE.

BEDDING AND COVER:
CLASS A - CLEAN, ANGULAR CRUSHED STONE, CRUSHED ROCK, OR CRUSHED GRAVEL CONFORMING TO THE FOLLOWING GRADATION:

SEIVE SIZE	% PASSING BY WEIGHT
1/2"	100
3/4"	10-100
3/8"	20-45
NO. 4	0-10
NO. 8	0-5

CLASS B - CLEAN, ANGULAR CRUSHED STONE, CRUSHED ROCK, OR CRUSHED GRAVEL CONFORMING TO THE FOLLOWING GRADATION:

SEIVE SIZE	% PASSING BY WEIGHT
1/2"	100
3/4"	85-100
3/8"	10-30
NO. 4	0-5
NO. 8	0-5

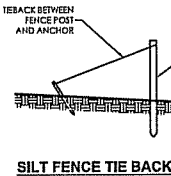
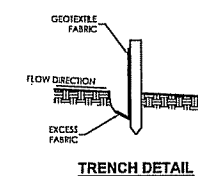
CLASS C - CLEAN, COARSE-GRAINED SOLS CLASSIFIED IN ASTM D2487 AS GW, GP, SW, SP.

CLASS D - COARSE-GRAINED SOLS WITH FINES CLASSIFIED IN ASTM D2487 AS GM, GC, SM, SC.

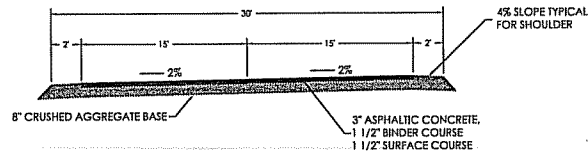
STANDARD WATER MAIN TRENCH

EROSION CONTROL DETAILS

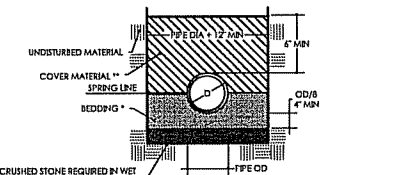
- NOTES:
1. HORIZONTAL BRACE WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POST AS DIRECTED BY THE ENGINEER.
 2. TRENCH SHALL BE A MINIMUM OF 4" WIDE BY 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL AND COMPACT TRENCH WITH EXCAVATED SOIL.
 3. WOOD POST SHALL BE A MINIMUM SIZE OF 1 1/8" X 1 1/8" OF OAK OR HICKORY.



SILT FENCE



STORM SEWER & CONSTRUCTION DETAILS



3" CRUSHED STONE REQUIRED BY WET TRENCH @ NO EXTRA COST TO OWNER

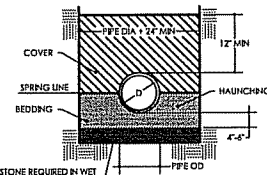
*BEDDING MATERIAL: CRUSHED STONE OR GRAVEL CONFORMING TO FOLLOWING GRADATION:

SEIVE SIZE	% PASSING BY WEIGHT
1"	100
3/4"	10-100
3/8"	20-45
NO. 4	0-10
NO. 8	0-5

**COVER MATERIAL: FINELY DIVIDED MATERIAL FREE OF DEBRIS, ORGANIC MATTER, AND LANCE STONES.

INSTALLATION: PLACE BEDDING MATERIAL IN MAXIMUM 6" LAYERS UP TO THE SPRING LINE OF THE PIPE. CAREFULLY PLACE COVER MATERIAL.

RIGID PIPE BEDDING (RCP)



3" CRUSHED STONE REQUIRED BY WET TRENCH @ NO EXTRA COST TO OWNER

BEDDING AND COVER MATERIAL: CLASS A: CRUSHED STONE OR GRAVEL CONFORMING TO FOLLOWING GRADATION:

SEIVE SIZE	% PASSING BY WEIGHT
1"	100
3/4"	10-100
3/8"	20-45
NO. 4	0-10
NO. 8	0-5

CLASS B: CRUSHED STONE OR GRAVEL CONFORMING TO FOLLOWING GRADATION:

SEIVE SIZE	% PASSING BY WEIGHT
1"	100
3/4"	85-100
3/8"	10-30
NO. 4	0-5
NO. 8	0-5

INSTALLATION: PLACE AND COMPACT BEDDING MATERIAL AND COVER IN MAXIMUM 6" LAYERS. WORK MATERIAL IN AND AROUND PIPE BY HAND TO PROVIDE UNIFORM SUPPORT. COMPACT CLASS B WITH HAND TAMPER OR VIBRATORY COMPACTOR TO 65% STANDARD PROCTOR.

FLEXIBLE PIPE BEDDING (CORRUGATED STEEL AND POLYETHYLENE)

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MISCELLANEOUS
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Outdoor Wood Chipping Project
Royal Recycling Service
City of Madison
Dane County, WI

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genc@generalengr.com
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