

United Builders Associates LLC.

PROPOSAL

Prepared for:

Kurt McChesney

RR1

Gladstone, IL 61437

309-627-2203 Hm

319-572-1938 Mb

Building Type: 2480 Head Finisher
Tunnel Ventilation

Number of Buildings: 1

Building Size: 71'2" x 281'

Number of Rooms: 2

January 26, 2007

Quote/Contract # UBA 07012

CONCRETE

**Meets Illinois Engineered minimum requirements additions to the specifications
and cost may be required by the owners engineering firm.**

- ↓ **4,000 P.S.I. ready mix concrete used in all pours.**

FOOTINGS

- Under the walls is a 8" deep x 16" wide footings with two continuous ½" rebar grade 60
- Under the columns is an 8" deep x 30" wide footings.

FLOOR

- ↓ 4" thick pit floor reinforced W6x6 2.5 wire mesh.**

WALLS

- ➔ Floor to wall convection has reinforced "L" shaped rebar.
- ➔ Exterior walls have bentonite rolled water stop continuous.
- ➔ Exterior pit sidewalls and end walls are 8" thick x 8'0" high reinforced with 5/8" grade 60 rebar spaced on 16" o.c vertically and 13" o.c horizontally.
- ➔ All rebar is pre-cut increases quality of the rebar connections.
- ➔ Above slat level is a 6" thick x 20" high sidewalls reinforced with 1/2" grade 60 rebar spaced 18" o.c.
- ➔ Standard is a one pour sidewall, poured with the 8" wall and 6" wall make the recess for the slat ledge.
- ➔ 8" concrete pit divider wall reinforced with rebar spaced 18" on centers vertically and 18" on centers horizontally includes 5" X 48" flow-through at.
- ➔ 8" thick x 36" high x 20' long concrete wall in load out area.
- ➔ Stainless steel anchor bolts are used for sidewall with openings and standard steel anchor bolt for all enclosed walls.
- ➔ Curing compound will be applied to floor and exterior walls.
- ➔ All concrete pumping is included in this proposal.

COLUMNS

- Will be 14" diameter poured in place, reinforced with 4 - ½" grade 60 rebar verticals and held in place 3 - 3/8" rebar rings.
- Spacing is 12'o.c.

PIT PUMP-OUTS

- 6'0" wide X 6'0" wide 8" thick x 8'0" high reinforced with 1/2" grade 60 rebar spaced on 11"o.c vertically and 18"o.c horizontally.
- Pump outs have 8" sumps holes below floor level.
- Pump out covers are PVC tongue and groove planking.

BIN PADS

- 11' wide x 21' long x 8" thick bin pad reinforced with ½" grade 60 rebar spaced 24"o.c. with 6 posthole footings.

SLATS

- Beams that support the slats are 8" wide x 10" tall x 12' long.
- Slats are 4' wide x 10' long x 4" thick with a 5" top.
- Solid Slats are 4' wide x 10' long x 4" thick with a solid top, use in loadout and office areas.
- Standard gang slat is reinforced with ½" bottom mat and a 3/8" top mat strategically placed.
- Light broom finish.
- Concrete has a minimum strength of 7000#. Air, slump, and cylinder test are preformed daily for quality control.
- Delivered and installed.

BUILDING PACKAGE – By EPS

Pre- Engineered Building

SIDEWALLS

- 2"x 6" treated sill plate.
- 2"x 6"x 67" treated sidewall studs spaced 24"o.c.
- 2"x6"x22-1/2" treated blocks at the top of curtain opening.
- 2"x 6" double top plate.
- 2"x4" knee bracing spaced at 48"o.c.
- 16" beveled aluminum panel laminated to 3/8" plywood installed above curtain opening.
- Exterior curtain opening covered galvanized steel plastic coated bird wire.
- Interior curtain opening covered with 24" high hog panel with 2"x4" opening.

ENDWALLS

- 2"x4" treated sill plate.
- 2"x4" treated SPF endwall studs spaced 24"o.c.
- 2"x4" SPF double top plate.
- Exterior covered with aluminum panel laminated to 3/8" plywood all seams caulked and covered with aluminum battens.
- Interior covered with .040 PPD on 3/8" plywood, applied with stainless steel nails, all seams caulked and covered with aluminum battens.
- Insulated with 3-1/2"x24" fiberglass batt insulation covered by 4 mill polyfilm.

OFFICE or ROOM PARTITION WALLS

- 2"x4" treated sill plate.
- 2"x4" studs spaced 16"o.c.
- Interior covered with .040 PPD on 3/8" plywood, applied with stainless steel nails, all seams caulked and covered with aluminum battens.
- 2543 window installed in office.

DOORS

- ➔ **Dura-Door laminated solid construction.**
- ➔ **Aluminum/plywood exterior skin, FRP/plywood interior skin which is warp resistant.**
- ➔ **Extruded aluminum frame reinforced with full dimension lumber.**
- ➔ **Heavy duty stainless steel door latch and hinges.**
- ➔ **3 @ 36" and 3 @ 48".**

ROOF SYSTEM

- ➔ **4'0" O.C. truss spacing**
- ➔ **(25#-5#-5#) truss loading, 4/12 pitch.**
- ➔ **Purlins are 2"x 4" x 12' spaced on 24"o.c. nailed with ring shank nails.**
- ➔ **12" cantilever overhang, with continuous vented soffit both sides.**
- ➔ **Post trim and angle trim completely cover fascia.**
- ➔ **16" ridgecap with closures, (16) Klauer low profile ridgrolators.**
- ➔ **White painted 29 gauge G90 steel installed with painted screws.**

CEILING

- ➔ **4 mill vapor barrier stapled in place.**
- ➔ **"Ag-Tuff" plastic ceiling installed with stainless steel painted step screws, spaced every other rib.**
- ➔ **Ceiling wraps down 16" to cover knee braces.**
- ➔ **R30 blown-in cellulose insulation (8" to 9" deep).**
- ➔ **Treated 2"x4" lumber used for inlet framing.**
- ➔ **1 – attic access.**
- ➔ **NOTE: Due to the tight corrugation of ceiling material may scratch when equipment is installed, cold weather will cause contraction in the material and require extra heating of building to improve appearance.**

ELECTRICAL

- ➔ Exterior Square D breaker panel sized for proper loading.
- ➔ All electrical installed in sealed PVC conduit, attached with standoff clips stainless steel screws.
- ➔ Exterior wiring on pit fan have a SJ cord and twist lock plug in, placed under the eave.
- ➔ Three rows of incandescent lights with tempered glass globes, installed 12' o.c. one switch located at main entrance.
- ➔ One row of 3 incandescent lights with tempered glass globes at loadout door
- ➔ 3 – 23watt fluorescent night-lights per room are located inline with incandescent lights.
- ➔ 1 - 50 amp, three spade welder/pressure washer outlet at main panel.
- ➔ Wiring for 500 watt heat lamp outlets included.
- ➔ Wiring and installation for hot water heater included.
- ➔ Wiring and installation base board heater in office area.
- ➔ Please see option page for pricing on exterior security light.
- ➔ Generator pricing available upon request.

PLUMBING

- ➔ From owners supplied 2" main water line, 1" PVC Sch. 40 lines will be used thru the water filter & solenoids. Then be reduced to ¾" PVC Sch. 40 lines in rooms.
- ➔ Each ¾" PVC Sch. 40 line has a valve installed at the end, for faster medication application, flushing the lines or draining lines when not in use.
- ➔ All lines are mounted using standoff clips and stainless steel screws.
- ➔ One water pressure regulator per room.
- ➔ Three pressure gauges, one installed on each side of the water filter, one installed after pressure regulator.
- ➔ One electronic water meter per room.

- ➔ One Dosatron spin down water filter on 1" supply line.
- ➔ Medicator hook up with 1 Dosatron medicator per room
- ➔ One utility sink installed per site.

COOLING / SOAKER SYSTEM

- ➔ Main computerized control operates cooling / soaking system by a time feature controlling the solenoids.
- ➔ Cooling / soaking system is plumbed using 1/2" Sch. 40 PVC piping with standoff clips and stainless steel screws
- ➔ 360-degree sprinklers are installed offset 9'6" o.c. for full coverage.

HIGH PRESSURE SYSTEM

- ➔ 1/2" Sch. 80 galvanized pipe installed to one side of the alley using standoff clips and stainless steel screws.
- ➔ High-pressure ball valve located 42' o.c. for easy accessibility
- ➔ Pressure washer and fittings are not included in proposal.

Call our Washington location for a quote on a new pressure washer and fittings.

VENTILATION SYSTEM

Evolution 3001 Control

- ➔ Manages the lights, pit fans, tunnel fans, heaters, feed system timers, cooling system, digital water meter.

Staging:

1. Building Lights
2. Heater
3. Heater
4. Heater
5. Open
6. 36" Fan
7. 51" Fan
8. 51" Fan
9. 51" Fan
10. 51" Fan
11. Open

Variable Output Box:

1. Pit Fans
2. Pit Fans

- 12. Cooling
- 13. Open
- 14. Open
- 15. Feed System
- 16. Feed System

→ Includes three interior and one exterior temperature sensor.

Pit Fans

→ 8 - 24" fan extruded plastic housing, cast aluminum propeller, stainless steel hardware and plastic shutters are mounted on stainless steel sidewall transition. (6180 CFM)

CAP Vent System

→ 8 - 15" pipe fan PVC housing, cast aluminum propeller, stainless steel hardware force air into pit.

Stir Fans

→ 4 - 24" high output fan (8500 CFM)

→ Mounted to ceiling using stainless steel lags with washers.

Tunnel Fans

→ 2 - 36" fan fiberglass housing, cast aluminum propeller, pillow block bearing, direct drive, stainless steel hardware and plastic shutters are mounted in endwall.(11870 CFM)

→ 8 - 51" fan fiberglass housing, cast aluminum propeller, pillow block bearing, belt tensioner, stainless steel hardware and specialty designed plastic shutters are mounted in endwall.(29900 CFM)

Curtain Machine

→ 5000 pound capacity, linear drive

→ 2' drive unit for inlets

→ 3' drive for tunnel curtains

Curtain Drop

→ Safety drop installed on each sidewall, with safety thermostat.

Inlets

→ Actuated ceiling inlet PVC welded frame, clad covered insulation doors, and flex lip for good cold weather seal. (2690 CFM)

- Stainless steel suspension cable and drive rods with poly fasteners

Heaters

- Adjustable 160,000-250,000 BTU pilot light heaters with galvanized housings air diverters, and 6' hose.
- Heaters hang from stainless steel eye lags and stainless steel cable with aluminum sleeve.

EQUIPMENT

Heat Lamps / Mats

- Retroliter lamp with 250 watt bulb 1 per pen
- Stokboard pre-formed plastic mat 4'x8'

Gating

- Horizontal rods wean to finish gates.
- 36' total height
- 1/2" X 1/2" top angle iron
- 3/4" bottom rod.
- (8) 1/2" horizontal rods
- 3/8"x2" bar gate end strap
- 1/4" x 1-1/2" bar intermediate straps
- 1/2"x4"x14" leg plate with 9/16"x12" slot
- 3/8"x2" bar vertical strap leg
- Flip latch design on front gates
- Powder coat paint finish
- All stainless steel hardware and 1/2" stainless steel U bolt
- Last 2 pens at loadout door have solid sheet metal sides
- 1 - 10' solid gate in load out area
- Pen layout see blue print

Waters

- 36" stainless steel double nipple waters with adjustable bracket mounted to gates.
- Garden hose supply line with shut offs.

Feeders

- 70" stainless steel 5 hole per side welded dry feeder.

Curtains

- ➔ Sidewall curtains are a Non-insulated 10 oz translucent polyethylene.
- ➔ 3/16" stainless steel main cables
- ➔ 1/8" stainless steel lift cables
- ➔ Stainless steel standoff brackets, black poly rope supports
- ➔ 2-1/2" poly stainless steel lift pulleys, heavy duty galvanized bearing pulley for tunnel curtains
- ➔ 1/2" schedule 40 black pipes installed in curtain sleeve
- ➔ 1 hand winch for each curtain for making adjustments
- ➔ White molded fiberglass pockets keep their shape to protect ends of curtain.

Bins and Feed System

- ➔ 18.8 ton bins with ladders, placed in tandem, anchored with 5/8" stainless steel anchor bolts
- ➔ Bottom clear straight out boot.
- ➔ Model 75 flag system with extension hoppers ¼ hp drive unit, 1 hp end drive units
- ➔ Feed line hangs from stainless steel eye lags and stainless steel cable with aluminum sleeve 4' o.c.
- ➔ Halo infrared feed sensors

- ➔ This proposal includes labor to install all items listed above

Warranty

- **Warranty provided is 1 year on labor, parts and materials, some manufactures may have extended warranty programs not supported by United Builder Associates.**

United Builders Associates LLC. proposes to furnish material and labor, complete in accordance with the above specification, for the sum of \$ 477,640.89 (per pig space \$192.59)

*** Proposal sum is good for 15 days from the time the proposal was produced, after 15 days the sum is subject to change without notice.**

OPTIONS

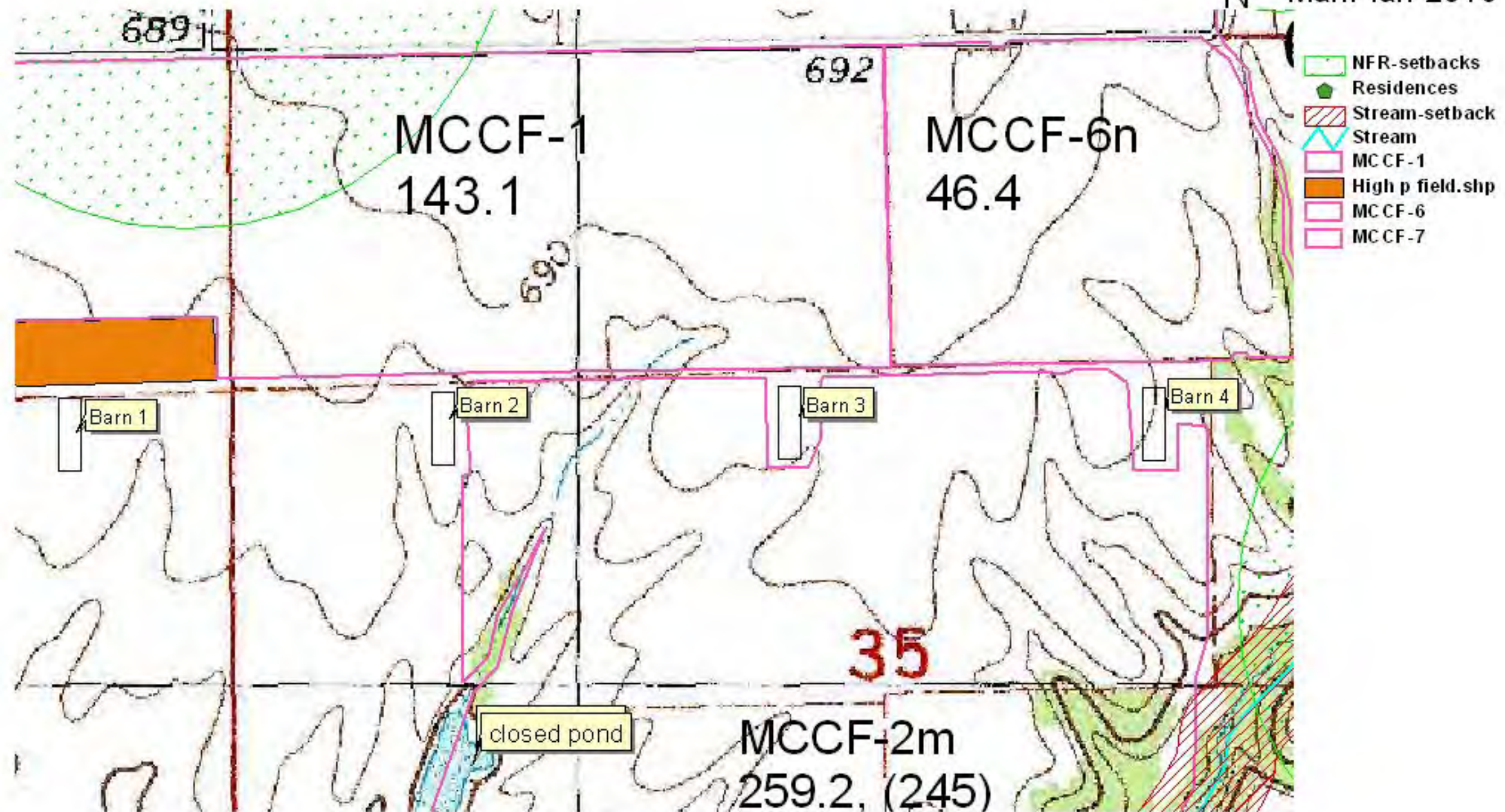
Alarm system installed	\$1,301.00
Washer/Dryer outlets	\$156.00

**United Builders Associates LLC.
Serving our Customers with Quality, Honesty, & Integrity!**

Sheetz Family Farm M & K Farms-Upper Place



ManPlan 2010



1000 0 1000 2000 3000 Feet

Sheetz Family Farm M & K Farms-Upper Place



N ManPlan 2010

- NFR-setbacks
- Residences
- Stream-setback
- Stream
- MCCF-1
- High p field.shp
- MCCF-6
- MCCF-7

MCCF-1
143.1

MCCF-6n
46.4

MCCF-2m
259.2, (245)

Barn 1

Barn 2

Barn 3

Barn 4

1000 0 1000 2000 3000 Feet

Sheetz Family Farm M & K Farms-Upper Place Stormwater Drainage Map



ManPlan 2010

6

- Surface drainage.shp
- Wbdhu12_a_il071.shp
- NFR-setbacks
- Residences
- Stream-setback
- Stream
- MCCF-1
- High p field.shp
- MCCF-6
- MCCF-7

MCCF-1
143.1

MCCF-6n
46.4

Barn 1

Barn 2

Barn 3

Barn 4

closed pond

MCCF-2m
259.2, (245)

500 0 500 1000 1500 2000 2500 3000 3500 Feet

