

**DUBUQUE COUNTY  
INTEGRATED  
ROADSIDE  
VEGETATION  
MANAGEMENT  
PLAN**

I. Preface

A. Contributors to the Plan

- a. Anthony Bardgett - County Engineer
- b. Brian Preston – Dubuque County Conservation Director
- c. Eric Schmechel – Urban Conservationist, Dubuque Soil and Water Conservation District

B. Table of Contents

<b>Executive Program.....</b>	<b>2</b>
Goals .....	2
Program History .....	2
IRVM Decision Making Process.....	2
Executive Summary .....	2
Program Type.....	2
<b>Jurisdictional Recognition and Approval .....</b>	<b>2</b>
Management.....	2
Board of Supervisors .....	3
State Laws and Regulations.....	3
Permits .....	3
<b>Program Organizational Structure .....</b>	<b>3</b>
Staff Organizational Structure .....	3
Staffing Needs.....	3
<b>Inventory and Analysis.....</b>	<b>3</b>
Natural Resources.....	3
Equipment.....	4
Soils .....	4
<b>Program Operations .....</b>	<b>4</b>
Annual Operations .....	4
Vegetation Types for Specific Uses.....	4
Special Projects.....	4
<b>Methods.....</b>	<b>4</b>
Methods Used.....	4
<b>Material Procurement .....</b>	<b>5</b>
Sourcing .....	5
Material Handling and Storage .....	5
<b>Plan Review .....</b>	<b>6</b>
Signatures .....	6
ROW Spraying Guidelines.....	8
County Permits.....	9

## II. Executive Program

### A. Goals

- a. Preserve and provide safe, functional and environmentally responsible corridors of travel throughout the county.
- b. Control and reduce soil erosion.
- c. Utilize a long-term integrated management program that promotes desirable, self-sustaining plant communities. Encourage those plant communities that are native to Iowa through preservation and re-establish whenever practical.
- d. Utilize more efficient and effective application strategies of chemicals as a control method of undesirable plants.
- e. Enhance the scenic qualities of the roadsides and their value as roadside habitat.
- f. Enhance wildlife corridors and pollinators for all species.

### B. Program History

- a. Dubuque County has implemented an IRVM plan since the early 2000s and continues to actively participate in the review and development of the plan.
  - i. In 2016, the Roadside Management program switched from Secondary Roads to the County Conservation Department. Prior to this, the County did not have an active IRVM program.

### C. IRVM Decision Making Process

- a. County departments participating in the IRVM program continue to use the latest IRVM methodologies to most appropriately address the problems. Actions that are most consistent with the goals and concepts of roadside vegetation management in this plan are considered first priority.

### C. Executive Summary

- a. Dubuque County's vegetation management goals must meet certain safety and functional requirements before aesthetic, recreational or economic considerations can be addressed. These are to maintain a clear zone recovery area, meet minimal sight distance requirements and provide for erosion control. Dubuque County is also required by Iowa law to mow or otherwise control noxious weeds. Through the use of IRVM plan, the County should be able to meet the goal of providing a safe corridor for travel and address other desirable uses for roadside vegetation.

### D. Program Type

- a. Dubuque County IRVM program is under the County Conservation Board. Department. The program is run through a joint effort from Secondary Roads, Conservation Department, Board of Supervisors, and the general public.
- b. The Conversation Department reviews the IRVM plan and provides input on native plantings, controlled burn activities and general knowledge regarding weed control.
- c. A Weed Commissioner is currently not being designated by the Board of Supervisors and therefore the responsibilities default to the Board.

### III. Jurisdictional Recognition and Approval

#### A. Management

- a. County Conservation Board Director - Makes decisions where road maintenance and construction projects will take place throughout the county. Reviews IRVM funding and budgetary needs on an annual basis. Aides in deciding IRVM plan operations.
- b. County Engineer - County Engineer assist and communicates with the planning and construction of projects. Assists with applying for funding and materials through the LRTF (Living Roadway Trust Fund). Assists in overseeing IRVM operations.
- c. Urban Conservationist – Assists with IRVM grants and mapping of both old and new native plantings in the roadway. Also assists with erosion control and sediment control throughout the County.

#### B. Board of Supervisors

- a. Please refer to program type and executive summary. Board of Supervisors aids in hearing public input in IRVM operations. Supervisors also, review and approve budget for IRVM operations on an annual basis.

#### C. State Laws and Regulations

- a. Iowa Law Section 314.17 Mowing
- b. Iowa Law Section 314.22 IRVM
- c. Iowa Law Chapter 317 Weeds

#### D. County Issued Permits

- a. Permits are filed in the County Engineer's Office. Permits are filled out by the applicant then submitted to the County Engineer for approval. The County Engineer has the authority to make necessary changes to the proposed application. Applications possibly affecting the IRVM program include:
  - i. Work in the County Right of Way
  - ii. Tile Crossing Permit within County Right of Way
  - iii. Ditch Alteration Policy
  - iv. Utility Permit

### IV. Program Organizational Structure

#### A. Staff Organization Chart

- a. The County Conservation Director is to work with the County Engineer, Assist County Engineer, and Urban Conservationist to distribute workload to fulfill correct plan of action.

#### B. Staffing Needs

- a. Dubuque County's IRVM plan requires workers to be available for seeding and erosion control, mowing, weed spraying and brush cutting. Count Conservation Staff will be utilized when schedules are free from typical county conservation workloads. Contractors may also be utilized as necessary for weed spraying.
- b. Secondary Road Department employees responsible for spraying are licensed as Category 6 pesticide applicators. They will also assist with the implementation of the plan.
- c. Engineering Technicians and County Conservation Board Staff have received basic erosion control training provided by the Iowa DOT and are scheduled to obtain erosion control technician certification.

## V. Inventory and Analysis

### A. Natural Resources

#### a. Tools

- i. GIS Mapping. Dubuque County is currently going through a roadside inventory process to map out all vegetation species throughout the County right-a-way.
- ii. GPS Equipment
- iii. Aerial Photography
- iv. Record Keeping

#### b. Vegetation

- i. Inventory of roadside vegetation throughout the county is a continuous practice, mostly due to the ever changing roadside habitat. Inventory can include both official and unofficial. Official inventory includes extensive data collection and recording on a county wide basis. This is being done through the use of GIS applications.

### B. Equipment

- a. Dubuque County's current equipment typically allows for successful plantings and maintenance of road ditches. Aging equipment will need to be replaced as repairs become uneconomical. Additional equipment and revised practices are being considered for improved seedbed preparation. Dubuque County's current IRVM equipment includes but is not limited to:

- i. Hydro Seeder
- ii. Mowers
- iii. Brush Cutters
- iv. Tractors
- v. Pickup Trucks
- vi. Chemical spray trucks
- vii. Trailers

### C. Soils

- a. Dubuque County utilizes NRCS Soil Mapping Index for a variety of tasks.

## VI. Program Operations

### A. Annual Operations

- a. January through March - Operations include but are not limited to: cutting trees and brush, repairing equipment, planning upcoming year's operations, ordering equipment and material.
- b. April through September - Operations include but are not limited to: seeding, erosion control projects, mowing, and spraying.
- c. October through December - Operations include but are not limited to: cutting trees and brush, equipment maintenance, dormant seeding, and monitoring sites.

### B. Vegetation Types for Specific Uses

- a. Selection of vegetation types will be based upon plant performance, cost, availability, ease of use, and distinct benefits of each type of plant.

### C. Special Projects

- a. Wetland Determination – Only as necessary for construction projects
- b. Wetland Mitigation Seeding and Enhancement - Only as necessary for construction projects

- c. Native plantings – Based on requests from local agencies and property owners

## VII. Methods

### A. Vegetation Establishment and Maintenance

- a. Procedures – Procedures for erosion control seeding and noxious weed control are listed in Appendix A.
- b. Site Preparation – Sites should be removed of any existing plant growth especially noxious weed growth.
- c. Seed Mixtures and Application Rates – SUDAS Type 1 or Iowa DOT Rural Median/ditch mixes will typically be used for ditch clean out re-seeding. Native seed mixes can be used where ditch siltation is not a reoccurring problem and mowing is not practical. Native seed mixes should be those types of seed that establish themselves quickly and are considered warm season grasses. Big Bluestem and Indiangrass (tall grasses) should not be planted at driveways and intersections due to the reduction in visibility.
- d. Seeding Techniques – Seeding shall be completed per the guidelines listed in the Appendix
- e. Erosion and Sediment Control – Multiple erosion control best practices may be used to achieve adequate erosion control including but not limited to the following:
  - (a) Permanent Native Seeding
  - (b) Permanent Rural Mix Seeding
  - (c) Hydro-mulch
  - (d) Erosion Control Blankets
  - (e) Silt Fence
  - (f) Rock Check Dams
  - (g) Revetment Stone
  - (h) Sediment Basins
  - (i) Cover Crop

## VIII. Material Procurement

### A. Sourcing

- a. Seed, fertilizer, mulch, and other materials needed for IRVM practices are purchased at fair market value through reliable vendors. Material pricing is reviewed annually.

### B. Material Handling and Storage

- a. Materials are to be stored in a sheltered area when possible. When availability is present, sensitive materials, such as seed, should be stored in an enclosed building with climate control.

RESOLUTION NUMBER 18-035

WHEREAS, Dubuque County has been presented with Dubuque County Integrated Roadside Vegetation Management Plan; and

WHEREAS, the plan has been reviewed and approved by the Dubuque County Engineer and Dubuque County Conservation Director.

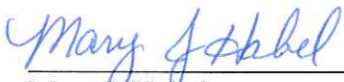
NOW, THEREFORE BE IT RESOLVED Dubuque County approves and authorizes the chairperson to sign the Dubuque County Integrated Roadside Vegetation Management Plan.

Resolution adopted this 12th day of February, 2018.



\_\_\_\_\_  
Jay Wickham, Chairperson  
Dubuque County Board of Supervisors

Attest:



\_\_\_\_\_  
Mary J. Habel  
Dubuque County Deputy Auditor

## Ditch Seeding Guidelines

### 1) Seed Mix to be Used

A. SUDAS Type 1 seed mix or Iowa DOT Median/Ditch seed mix shall typically be used for ditch cleanout seeding. These seed mixes are well suited to shoulders and will withstand repeated mowing (see tables below for seed mixture contents).

SUDAS Type 1 Seed Mix	Percentage %
Corsair Kentucky Bluegrass	24.88
Appalachian Kentucky Bluegrass	24.66
Blackjack Kentucky Bluegrass	24.48
Gibraltar Creeping Red Fescue	9.86
Nobility Perennial Ryegrass	7.94
Pillar Perennial Ryegrass	6.76
Other Crop	0.14
Inert Material	1.26
Weed Seed	0.02

IDOT Median/Ditch Seed Mix	Percentage %	IDOT Seed Rate
Fawn Tall Fescue	50.74	100 lbs per acre
Linn Perennial Ryegrass	37.68	75 lbs per acre
95/85 Kentucky Bluegrass	10.82	20 lbs per acre
Other Crop	0.02	NA
Inert Material	0.77	NA
Weed Seed	0.01	NA

- ✓ 4-50 pound bags of IDOT seed mix should be applied per acre of area to be seeded
  - ✓ Add 300 pounds of 6-24-24 (or equivalent) fertilizer per acre of seeding
  - ✓ Seed should be placed in direct contact with the soil
  - ✓ Seed should not be buried deeper than ¼ inch
  - ✓ Seed should be packed tightly to the soil
  - ✓ Seed and fertilizer mixture shall be placed in first pass
  - ✓ Mulch and tackifier shall be placed in the second pass
  - ✓ Seed placed with mulch in a hydro-seeder should have the normal seeding rate increase by 30% to compensate for reduction in the seed/soil contact
  - ✓ Ditch slopes steeper than 4:1 should be worked up perpendicular to drainage direction to reduce erosion and prepare the soil
  - ✓ Avoid seeding during July and August
- B. Native seed mixes may be used in designated areas where reoccurring siltation is not an issue and ROW mowing is not practical. Native seeds should be quick establishing and suitable for warm season growing.
- ✓ Native grass seeding locations shall be documented and location maps must be submitted to the Engineer's Office after application
  - ✓ Requests for this type of seed will be submitted to the LRTF
  - ✓ Seed application rates and fertilizer rates shall be in accordance with LRTF recommendations



## **ROW Spraying Guidelines**

### **1.) Paved Road Shoulder Spraying**

- A. Shoulder spraying shall only occur after shoulder retrieval and edge ruts have been corrected.
- B. The GMC truck with the 900 tank is typically used for shoulder spraying. One tank with 900 gallons of mixed chemical should be applied over a 60 acre area. Truck running speed should be 20 mph at 60 psi pressure.
- C. Soil sterilant (5oz per acre of Perspective and 3 oz per acre of Oust) shall be applied to the aggregate area along with a glyphosate (0.2083 gallons per acre of Roundup/Makaze), drift control agent (1 quart of Weatherguard per 100 gallons in the tank) and an emulsifier (0.67 ounces per acre of Watersoft).
- D. This application will typically be completed in April- June by the licensed applicators within the Secondary Road Department (once per year).
- E. Chemical application should not occur outside the limits of the aggregate area.
- F. Do apply chemical to saturated ground and not before a substantial rainfall event
- G. Max Perspective rate is 11 oz/acre, max oust rate is 8 oz/acre

### **2.) Paved Road Shoulder Spraying**

- A. Guardrail spraying shall occur after shoulder retrieval and washout activities have been completed.
- B. The F-350 truck with the 300 gallon tank is typically used for guardrail spraying. One full 300 gallon tank mix of chemical should complete 7-10 guardrail locations (depending on size of the installation).
- C. Soil sterilant (5oz per acre of Perspective and 3 oz per acre of Oust) shall be applied to the aggregate area along with a glyphosate (0.2083 gallons per acre of Roundup/Makaze), drift control agent (1 quart of Weatherguard per 100 gallons in the tank) and an emulsifier (0.67 ounces per acre of Watersoft).
- D. This application will typically be completed in April- June by the licensed applicators within the Secondary Road Department (once per year).
- E. Chemical application should not occur outside the limits of the aggregate area.
- F. Do apply chemical to saturated ground and not before a substantial rainfall event
- G. Max Perspective rate is 11 oz/acre, max oust rate is 8 oz/acre

### **3.) ROW Vegetation Area Spraying**

- A. Vegetated areas of County Road ROW will be spot sprayed on an annual basis either by Secondary Road Department fulltime/part time staff and or by a contractor.
- B. Noxious weeds visually identified will be treated along with non-noxious weeds giant ragweed and wild parsnip.
- C. Spraying may occur if the plant has dew on it and during a light shower (rule of thumb for plant uptake is 6-8 hours).
- D. Approximately 50% of the manufacturer's maximum annual application rate per acre is used for chemical mixture quantities.
- E. Maximum sustained wind speed for spraying is 10 MPH (per manufacturer's recommendation).

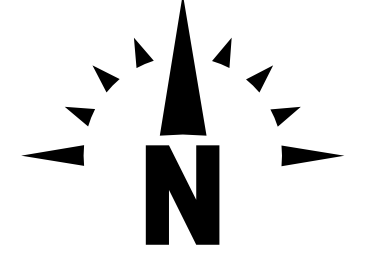


# DUBUQUE COUNTY

## IOWA

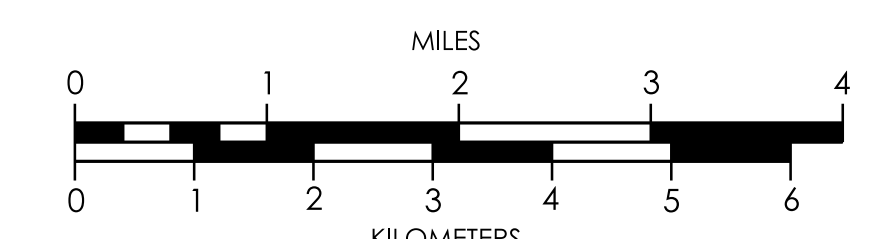


Office of Systems Planning  
Phone: (515) 239-1664  
WWW.IOWADOT.GOV/MAPS



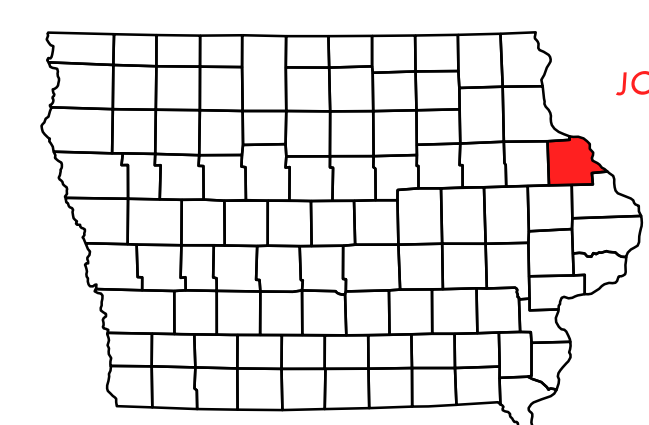
In Cooperation With  
**United States**  
Department of Transportation

JANUARY 1, 2016



### LEGEND

- INTERSTATE HIGHWAY
- PRIMARY HIGHWAY-DIVIDED
- PRIMARY HIGHWAY
- PORTLAND CEMENT CONCRETE ROAD
- ASPHALT ROAD
- BITUMINOUS ROAD
- GRAVEL ROAD
- EARTHEN ROAD
- INTERSTATE HIGHWAY
- UNITED STATES HIGHWAY
- STATE HIGHWAY
- COUNTY HIGHWAY
- RAILROAD
- PIPELINE
- AIRPORT
- HYDROLOGY
- BRIDGE
- STATE BOUNDARY
- COUNTY BOUNDARY
- CORPORATE BOUNDARY
- TOWNSHIP LINE
- SECTION LINE
- ROAD NAMES
- UNINCORPORATED PLACE
- STATE PARKS
- STATE INSTITUTIONS
- FEDERAL LAND





## Dubuque County LRTF Funding History through FY 2017

DOTProjectNumber	Applicant	Award	FiscalYear Description	Type
90-31-LRTF-101	Dubuque County	\$ 4,500.00	1991 Inventory	County
90-31-LR15-(313)	Dubuque County	\$ 24,000.00	2015 Equipment - Hydroseeder	County
90-31-LR15-(314)	Dubuque County	\$ 8,000.00	2015 Inventory	County

Total LRTF Funding Awarded FY1990 - FY2017	\$ 36,500.00
--	--------------

**Dubuque County Secondary Roads IRVM Equipment Inventory**

<b>Equipment No.</b>	<b>Year</b>	<b>Make</b>	<b>Description</b>	<b>Model</b>	<b>Condition</b>
T9	1997	John Deere	Mower Tractor	6400	
T10	2014	Case	Tractor w/ 60" Rotary Mower	115T4	
T17	2005	Case	2wd Tractor w/ Diamond Rotary Mower		
T26	2012	John Deere	Excavator	180	
E4	1996	John Deere	Excavator	595D	
E6	2011	John Deere	Wheeled Excavator	220D	
E23	2015	Finn	Hydroseeder	T75T	

**DUBUQUE COUNTY RIGHT-OF-WAY PERMIT**

TO THE BOARD OF SUPERVISORS OF DUBUQUE COUNTY, IOWA:

Name: \_\_\_\_\_ Phone: \_\_\_\_\_

Address: \_\_\_\_\_ City/State/Zip: \_\_\_\_\_

Does hereby make application requesting permission for the use of (road) \_\_\_\_\_

located in Section(s) \_\_\_\_\_, T \_\_\_\_\_ N-R \_\_\_\_\_, Dubuque County, from \_\_\_\_\_

\_\_\_\_\_ to \_\_\_\_\_

for the purpose of \_\_\_\_\_ The proposed use shall consist of

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

1. Before beginning work in the right-of-way it is the responsibility of the permit holder to contact all utilities which may be in the area of the proposed work.

2. All costs for the location, construction and maintenance of any utilities affected by this permit shall be the responsibility of the permit holder.

3. A copy of the approved permit shall be available on the job site at all times for the examination by Dubuque County Officials.

4. The permit holder and its contractors shall carry on the construction with regard to the safety of the traveling public and adjacent property owners in such manner as to cause minimum interference to traffic on the roadway. Traffic protection shall be in accordance with the current Manual on Uniform Traffic Control Devices for Streets and Highways. Flagging operations are the responsibility of the permit holder. The original placement of signs and removal upon completion of the work shall be accomplished by the permit holder.

5. Any closure of the road as a result of the construction shall be first approved by the County Engineer. The permit holder shall be responsible for proper notification of the closure to all necessary parties.

6. All work shall be performed in accordance with Dubuque County and Iowa Department of Transportation specifications.

7. Non-compliance with any terms of Dubuque County policy, permit or agreement, may be considered cause for shut-down of construction operations until compliance is assured, or revocation of the permit. The cost of any work caused to be performed by the County in removal of non-complying construction will be assessed against the permit holder.

8. The permit holder shall indemnify and hold harmless Dubuque County, its agencies and employees, from any and all causes of action, suits at law or in equity, for losses, damages, claims or demands, and from any and all liability and expense of whatsoever nature, arising out of or in connection with the permit holder's use or occupancy of the public highway.

9. This permit may not be transferred or assigned by the applicant.

10. Upon completion of the project the permit holder shall certify to Dubuque County that all work was performed as specified.

11. Permit expires 90 days from date signed by County Engineer.

NAME OF CONTRACTOR: \_\_\_\_\_

PERSON TO CONTACT & PHONE #: \_\_\_\_\_

DATE: \_\_\_\_\_

\_\_\_\_\_  
APPLICANT'S SIGNATURE

DATE: \_\_\_\_\_

\_\_\_\_\_  
APPLICANT'S SIGNATURE

RECOMMENDED FOR APPROVAL BY THE COUNTY ENGINEER OR CHAIR OF BOARD:

DATE: \_\_\_\_\_

\_\_\_\_\_  
DUBUQUE COUNTY ENGINEER

DATE: \_\_\_\_\_

\_\_\_\_\_  
CHAIR, BOARD OF SUPERVISORS  
DUBUQUE COUNTY



## DUBUQUE COUNTY SECONDARY ROADS DEPARTMENT

13047 CITY VIEW DRIVE  
DUBUQUE, IOWA 52002  
PHONE (563) 557-7283 FAX (563) 557-1973

ENTRANCE APPLICATION NUMBER: \_\_\_\_\_

Owner: \_\_\_\_\_ Phone: \_\_\_\_\_

Address: \_\_\_\_\_ City/Zip: \_\_\_\_\_

Road/Location of Entrance: \_\_\_\_\_

Township: \_\_\_\_\_ Section: \_\_\_\_\_

**TYPE OF USE:** ( ) FIELD  
( ) RESIDENTIAL  
( ) OTHER \_\_\_\_\_  
( ) SUBDIVISION

**TYPE OF CONSTRUCTION:** ( ) NEW ENTRANCE  
( ) EXTENSION  
( ) UPGRADE EXISTING ENTRANCE

### SPECIFICATIONS:

1. The Code of Iowa, Section 318.8 and the Dubuque County Board of Supervisors resolution dated June 1, 1977 shall apply.
2. Where applicable, only a new standard culvert pipe shall be installed. Concrete, corrugated metal or double-walled corrugated plastic pipe may be used. Pipe shall meet Iowa Department of Transportation Specifications.
3. The owner is responsible for all costs of labor and material for the entrance installation. Size and length of culvert shall be in accordance with the County Engineer's recommendation.
4. Entrances for residential or commercial use shall be surfaced with three inches (3") of Class "A" crushed stone. Field entrances shall be surfaced with two inches (2") of Class "A" crushed stone.
5. If paved with concrete, the concrete shall be kept back a minimum of six feet (6') from the roadway shoulder line. Exceptions may be allowed when the roadway and/or shoulder surface is an existing concrete surface.
6. Minimum fill over entrance pipes shall be one foot (1').
7. Sight distance for entrances shall meet AASHTO specifications for stopping sight distance for posted speed limits.
8. Retaining walls or decorative items (railroad ties, stonework, etc.) shall not be placed on entrance side slopes within the County right-of-way.
9. If not installed according to specifications, the County may remove any entrance not built to these specifications.
10. When installation is complete and after surfacing is applied, please return the blue post card or call so that an installation inspection can be made.
11. Dubuque County will not assume any responsibility for maintenance of any entrance.
12. This permit is void if the entrance location violates any plat, deed or covenant restriction.
13. **This permit expires one (1) year from date of final approval.** For extension or renewal phone (563) 557-7283.

PRELIMINARY SITE INSPECTION DATE: \_\_\_\_\_, 20\_\_\_\_ BY: \_\_\_\_\_

Location Approved ( ) Date: \_\_\_\_\_ County Engineer: \_\_\_\_\_

Location NOT Approved ( ) \_\_\_\_\_

Location Approved ( ) Date: \_\_\_\_\_ County Zoning: \_\_\_\_\_

Location NOT Approved ( ) \_\_\_\_\_

COMMENTS: \_\_\_\_\_

INSTALLATION INSPECTION _____	COMPLETION DATE: _____
DATE/INITIALS _____	
SURFACING _____	
CULVERT _____	
GRADE _____	
COMMENTS _____	

INSTALLATION APPROVED ( )      INSTALLATION NOT APPROVED ( )

# DUBUQUE COUNTY - ENTRANCE PERMIT WORKSHEET

ENTRANCE APPLICATION NUMBER: \_\_\_\_\_

Owner: \_\_\_\_\_ Phone: \_\_\_\_\_  
 Address: \_\_\_\_\_ City/Zip: \_\_\_\_\_  
 Road/Location of Entrance \_\_\_\_\_  
 Township: \_\_\_\_\_ Section: \_\_\_\_\_

**TYPE OF USE:** ( ) FIELD  
 ( ) RESIDENTIAL  
 ( ) OTHER \_\_\_\_\_  
 ( ) SUBDIVISION

**TYPE OF CONSTRUCTION:** ( ) NEW ENTRANCE  
 ( ) EXTENSION  
 ( ) UPGRADE EXISTING ENTRANCE

PRELIMINARY SITE INSPECTION DATE: \_\_\_\_\_ Traffic Count: \_\_\_\_\_

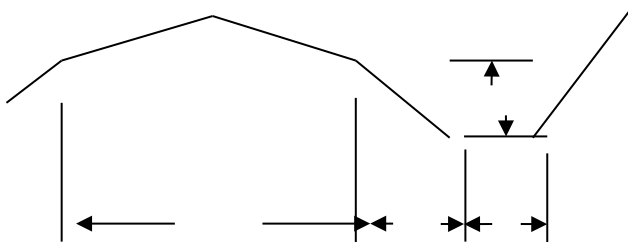
Location: \_\_\_\_\_

SIGHT DISTANCE:							
Speed Limit:	55*	50**	45	40	35	30	25
Minimum (FT)	495	425	360	305	250	200	150
Desirable (FT)	645	570	495	425	360	305	300
Measured Sight Distance (3.5 / 2.0)	Left						
	Right						
* unposted paved, sealcoat, hard surface road ** unposted gravel, stone surface road							

ENTRANCE SPACING:					
	SPEED				
V.P.D.	55	50	45	40	35
500 or more	660'	605'	560'	515'	500'
250 - 499	500'	445'	400'	355'	340'
0 - 250	330'	285'	245'	210'	185'

Road Section:

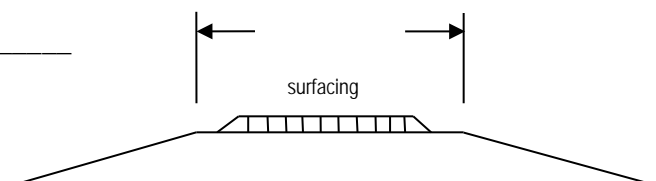
Looking: \_\_\_\_\_



SIDE SLOPES:		
Flatter sideslopes for safety are required if: a. The road has been reconstructed since 1990 or b. All of the below conditions are met:		Present Conditions
Class	Farm to Market	
Daily Traffic	400 or more	
M.P.H.	40 or more	
Surface	Paved or to be paved	
Required Sideslope		

Driveway Section:

Looking: \_\_\_\_\_



DRAINAGE:	
Upstream Entrance: dist. _____	dia. _____
Upstream X-road Pipe: dist. _____	dia. _____
Ditch Slope (approx. % grade): _____	
Drainage Area: _____	
Run-off Index: _____	
Required Culvert Size: _____	

MINIMUM CULVERT SIZE NEEDED TO INSTALL	
Culvert Diameter _____	inches
Culvert Length _____	feet

**DUBUQUE COUNTY PERMIT FOR  
TILE CROSSING OR OUTLET OF SECONDARY ROAD SYSTEM**

Name: \_\_\_\_\_ Phone: \_\_\_\_\_

Address: \_\_\_\_\_

hereby requests permission to tile across a secondary road known as: \_\_\_\_\_

located in Dubuque County, \_\_\_\_\_ Township, T \_\_\_\_\_ N-R \_\_\_\_\_, Section \_\_\_\_\_

Location where tile crosses road: \_\_\_\_\_

Owner of Connecting Field Tile: \_\_\_\_\_

Contractor: \_\_\_\_\_ Phone: \_\_\_\_\_

Size of Connecting Tile: Inlet \_\_\_\_\_ Outlet \_\_\_\_\_

Size of Crossing Tile: \_\_\_\_\_

Cost of Excavation: \_\_\_\_\_ feet @ \$ \_\_\_\_\_ = \$ \_\_\_\_\_

Construction Dates: \_\_\_\_\_ to \_\_\_\_\_

**SPECIFICATIONS**

1. All requests for tile crossings are to be submitted, in duplicate, two weeks before construction. Any work started before receiving written permission and without twenty-four hour notice of actual construction will not be considered for payment.
2. No payment will be made or pipe furnished for tile crossing which are hooked to sanitary sewer tile.
3. All tile crossings are to be properly connected on both ends to existing field tile.
4. Tile intakes, if so requested by the County Engineer, are to be placed in ditch bottom within the County right-of-way. No payment will be made for increasing tile size.
5. Tile pipe shall be furnished by the County and shall be picked up at the Dubuque yard.
6. Road crossings must be made with a minimum of obstruction to traffic. Traffic to be maintained over one-half of the traveled portion at all times.
7. All necessary and proper barricades, flares, etc., shall be furnished and maintained by the applicant.
8. Applicant is responsible for returning the roadway surface to its original condition.
9. Applicant assumes responsibility for all accidents and liabilities arising from this construction.

Date: \_\_\_\_\_, 20\_\_\_\_

\_\_\_\_\_  
Applicant's Signature

Date: \_\_\_\_\_, 20\_\_\_\_

\_\_\_\_\_  
Dubuque County Engineer

Approved for payment:

Date: \_\_\_\_\_, 20\_\_\_\_ By: \_\_\_\_\_



# DUBUQUE COUNTY UTILITY PERMIT

PERMIT NO: \_\_\_\_\_

ROAD: \_\_\_\_\_

DATE: \_\_\_\_\_

TO THE BOARD OF SUPERVISORS OF DUBUQUE COUNTY, IOWA:

The (company name) \_\_\_\_\_, incorporated under the laws of the State of Iowa, with its principal place of business at (address) \_\_\_\_\_ (city) \_\_\_\_\_, (state) \_\_\_\_\_, (zip) \_\_\_\_\_ does hereby make application requesting permission for the use of (County road name) \_\_\_\_\_ in Section(s) \_\_\_\_\_, Civil Township \_\_\_\_\_ T \_\_\_\_\_ N-R \_\_\_\_\_, Dubuque County, \_\_\_\_\_ miles/feet from \_\_\_\_\_ for the accommodation of a \_\_\_\_\_.

The installation shall consist of \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_.

**AGREEMENTS: The utility company, corporation, applicant, permit holder or licensee, (hereinafter referred to as the permit holder) agrees that the following stipulations shall govern under this permit.**

1. The permit holder will file a plat showing the location, horizontally and vertically, of the proposed utility line, and that said plat is hereby made a part of this agreement; and that the description of the proposed installation shall include type, height and spacing of poles, maximum voltage, length of cross arms, minimum clearance and number of wires; type, size and capacity of underground cables, conduits, tile lines and pipe lines and maximum working pressures for pipe lines carry flammable products.
2. The permit holder will, at any time subsequent to the installation, at their own expense, remove or relocate their utility lines as may become necessary to conform to new grades, alignment, or widening of right-of-way resulting from maintenance or construction operation for highway improvements. The permit holder further agrees to perform this operation promptly upon written notice by the County without cost to the County. If the permit holder fails, or is unable to comply promptly, the County may cause the work performed and the cost of such work will be paid by the applicant upon receipt of a statement.
3. All costs for the location, construction and maintenance of the utility installation covered by this application shall be the responsibility of the permit holder.
4. The installation shall meet the requirements of local municipal, county, state, and federal laws, franchise rules and regulations, regulations and directives of the Iowa State Commerce Commission; Utilities Division, the Department of Natural Resources, all rules and regulations of Dubuque County and any other laws or regulations applicable.
5. The permit holder and its contractors, shall carry on the construction, repair and maintenance of the accommodated utility with serious regard to the safety of the traveling public and adjacent property owners in such a manner as to cause minimum interference to or distraction of traffic on said highway. Traffic protection shall be in accordance with the current Manual on Uniform Traffic Control Devices for Streets and Highways. Flagging operations are the responsibility of the permit holder. The original placement of signs and removal upon completion of the work shall be accomplished by the permit holder.
6. All underground cable, conduit, tile line and pipe crossings of hard surfaced secondary roads shall be by means of jacking, boring, or some other manner approved by the County.
7. The permit holder agrees to give Dubuque County forty-eight (48) hours notice of its intention to start construction on the highway right-of-way. The permit holder also agrees to at all times give Dubuque County timely notice of intention to perform routine maintenance within the right-of-way. Said notice shall be to the Engineer whose name is shown below.
8. Before beginning work in the highway right-of-way, it is the responsibility of the permit holder to contract other utilities which may be located in the area of the proposed work.

9. A copy of the approved permit shall be available on the job site at all times for examination by Dubuque County officials.

10. The permit holder shall be responsible for any damage that may result to said highway because of the construction operation or maintenance of said utility. The permit holder shall return the entire roadway to its original condition and shall reimburse Dubuque County any expenditure that Dubuque County may have to make on said highway because of said Permit Holder's utility having been constructed, operated and maintained thereon.

11. Non-compliance with any of terms of Dubuque County policy, permit or agreement, may be considered cause for shut-down of utility construction operations or withholding of any relocation reimbursement until compliance is assured, or revocation of the permit. The cost of any work caused to be performed by the County in removal of non-complying construction will be assessed against the permit holder.

12. The owner of the utility facility shall indemnify and hold harmless Dubuque County, its agencies and employees, from any and all causes of action, suits at law or in equity, for losses, damages, claims or demands, and from any and all liability and expense of whatsoever nature, arising out of or in connection with the owner's use or occupancy of the public highway.

13. Dubuque County shall give the permit holder at least forty-eight (48) hours notice of any proposed construction or maintenance work, on either existing or newly acquired right-of-way when the proposed work will be within ten feet (10') of a utility location. The permit holder shall be responsible within this time frame to arrange to protect its facilities.

14. Dubuque County assumes no responsibility for damages to the permit holder's property occasioned by any construction or maintenance operations on said highway if permit holder has been notified in accordance with stipulation number thirteen above or if the facilities are not located in accordance with this permit.

15. This permit may not be transferred or assigned by the applicant. If the utility equipment which is installed under this permit is sold, leased, or otherwise transferred, the applicant shall require the purchaser, lessee or transferee to obtain a new permit in its own name prior to the effective date of the sale, lease or transfer. Otherwise, rights acquired under this permit shall terminate and the applicant may be required, upon the County's demand, to immediately remove all utility equipment from the right-of-way and to restore the roadway to its existing condition at its own expense.

16. A new permit is required any time there is a change in the class of transmittant, an increase in the maximum design pressure shown on the permit or any other physical change in the utility facility.

17. The authority granted by this permit is limited to Dubuque County's own limited easement on said highway right of way. It does not intend to remove or supersede any independent right the servient landowner may retain pursuant to Keokuk Junction Railway Co. v. IES Industries Inc. 618 N.W.2d 352 (Iowa 2000).

**NAME OF CONTRACTOR:** \_\_\_\_\_

**PERSON TO CONTACT:** \_\_\_\_\_

**CONTRACTOR PHONE NO.:** \_\_\_\_\_

**NAME OF APPLICANT:** \_\_\_\_\_

**TITLE:** \_\_\_\_\_ **EMAIL:** \_\_\_\_\_

**APPLICANT PHONE NO.:** \_\_\_\_\_

**SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**Recommended for Approval by the County Engineer's Department OR Chair of the Board:**

**DATE:** \_\_\_\_\_

**OR**

**DATE:** \_\_\_\_\_

\_\_\_\_\_  
**Dubuque County Engineer or Maintenance Superintendent**

\_\_\_\_\_  
**Chair, Dubuque County Board of Supervisors**