

*This application serves as a blanket permit
covering all approaches. JH*

Copy

**DEUEL COUNTY DRIVEWAY OR APPROACH APPLICATION
AND CONSTRUCTION PERMIT**

Application made by Amit Nadkarni (Deuel Harvest)
(Type or Print full name)

for an entrance to be located off Deuel County Highway No. Per Attached
(County Road Number)

Pertinent information to the proposed entrance:

1. Type of entrance:
 - A. Commercial _____
 - B. Residential _____
 - C. Farm _____
 - D. Other Wind Farm Access Road Entrances
2. Location:
 - A. Deuel County Road number Per Attached
 - B. Approximate Location Per Attached
3. Entrance:
 - A. Width (driveway top) Per Attached
 - B. Approximate date of Construction May-June 2020

**ENTRANCE TO BE BUILT AS DEIRECTED BY
THE DEUEL COUNTY HIGHWAY DEPARTMENT**

Submitted by:

Amit Nadkarni, Invenergy

Name

1 South Wacker Dr #1800

Address

913.232.6800

Phone

Chicago

City

IL

State

60606

Zip Code

Below Filled out by Deuel County

On Site Survey by: Jamie Hintz
(Type or print name)

Culvert Needed: Yes _____ No _____ Size: As needed

(Length and diameter)

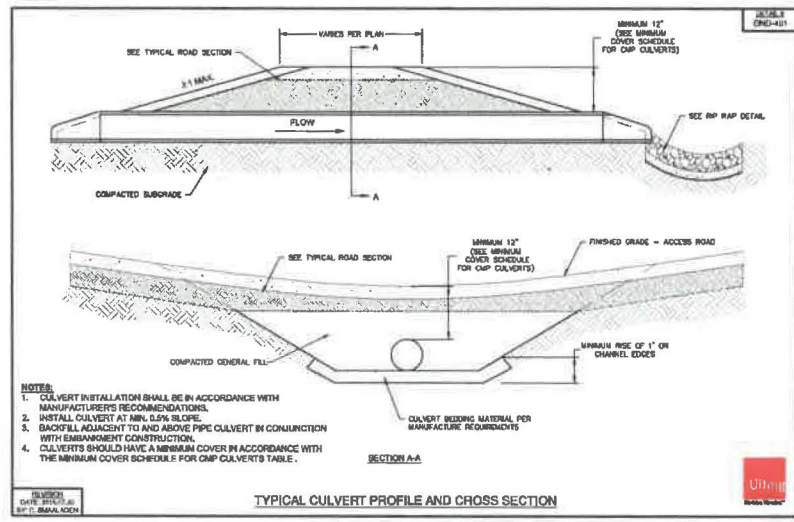
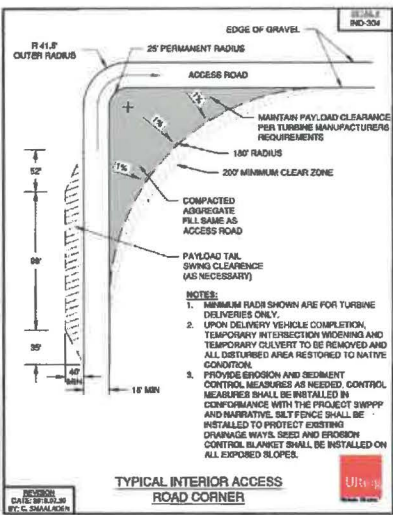
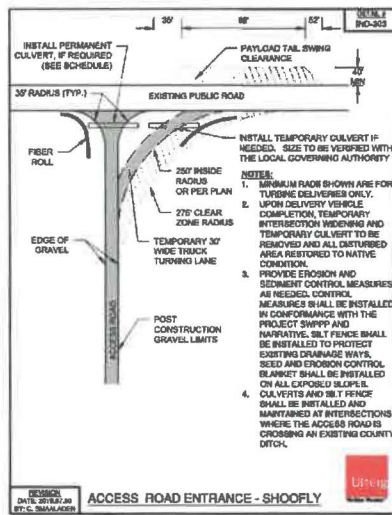
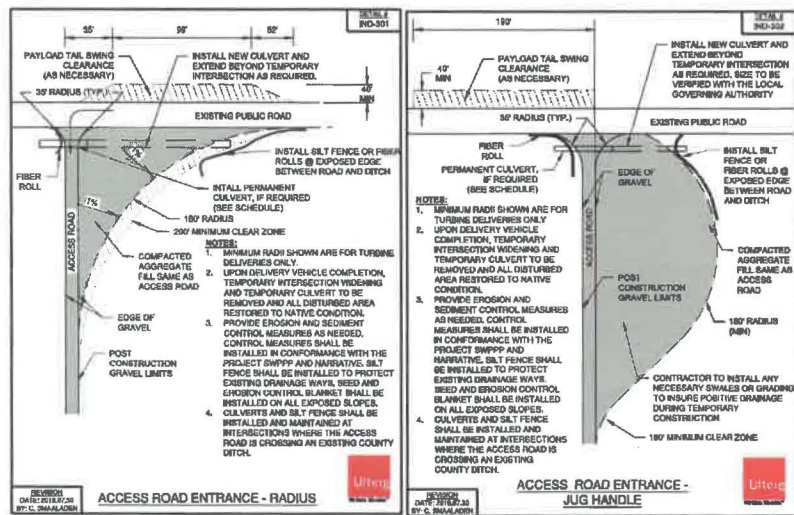
Approved by: Jamie Hintz Date: 9-10-20
(Deuel County Highway Superintendent or designee)

DEUEL HARVEST WIND
DEUEL COUNTY,
SOUTH DAKOTA

Rev.	Date	Description	By
0A	10/01/18	80% SUBMITTAL	UJL
0B	11/17/19	80% SUBMITTAL PARTIAL	UJL
0C	01/24/20	80% SUBMITTAL	UJL

Invernergy

2020 ONE SOUTH WACKER DR STE 1800
CHICAGO, IL 60608



MINIMUM COVER SCHEDULE FOR CMP CULVERTS

STEEL ROUND PIPE 2 2/3" x 12" CORRUGATIONS

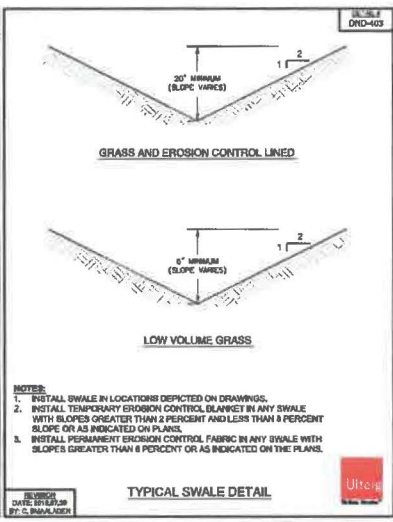
DIAMETER OF PIPE (IN)	MINIMUM ALLOWABLE COVER (FT)			
	16 GAGE	14 GAGE	12 GAGE	10 GAGE
12	1.0	1.0		
18	1.0	1.0		
24	1.0	1.0	1.0	
30	1.0	1.0	1.0	
36	2.0	1.0	1.0	1.0
48	3.0	1.0	1.0	1.0
60	3.0	2.0	1.0	1.0

STEEL ROUND PIPE 9" x 12" AND 9" x 12" CORRUGATIONS

DIAMETER OF PIPE (IN)	MINIMUM ALLOWABLE COVER (FT)			
	16 GAGE	14 GAGE	12 GAGE	10 GAGE
36	1.0	1.0	1.0	1.0
48	2.0	1.0	1.0	1.0
60	3.0	1.0	1.0	1.0

BASED ON "SEWER MANUAL FOR CORRUGATED STEEL PIPE," BY NATIONAL CORRUGATED STEEL PIPE ASSOCIATION, USING DESIGN THEORY USED IN THE "HANDBOOK OF STEEL DRAINAGE AND HIGHWAY CONSTRUCTION PRODUCTS," BY AMERICAN IRON AND STEEL INSTITUTE, ASSUMING 4,000 LBS CRANE LIFTING WITH A 30 DEGREE DISTRIBUTION ANGLE. COVER SOIL UNIT WEIGHT OF 120 PCF, AND GRADE TRACK WIDTH OF 12', SAFETY FACTOR = 1.5.

FOR 84" CULVERT, PROVIDE MINIMUM COVER THICKNESS AS RECOMMENDED BY MANUFACTURER.



NAD83 SOUTH DAKOTA STATE
PLANES, NORTH ZONE, US FOOT

THIS DRAWING IS
PRELIMINARY AND IS
NOT TO BE USED FOR
CONSTRUCTION. FOR
REVIEW PURPOSED
ONLY.

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Blanket - Danner - Detrol Lakes - Fargo - Star Falls - St. Paul
Design By: T. DEJONG
Reviewed By: P. FIEBLER
Approved By: B. BUCHHOLZ
Project Number: 18.01167

ACCESS ROAD DETAILS

DWG #: DHW-CND-007
REVISED: 0C