

# SOUTH DAKOTA DEPARTMENT OF TRANSPORTATION APPLICATION FOR UTILITY PERMIT

DOT-200 (9/15)

Permit No. \_\_\_\_\_

Highway No. SH15 County Deuel Approximately All bores less than 1 Mi.  N  S  E  W

from 191st & SH15 and 190th & SH15 intersection for construction of UG Collection/Fiber Bore  
(City or well defined point) (type of utility facility)

Begin Legal Description Section 10 & 11 Township 113N Range 49W End Legal Description Section 34 & 35 Township 114N Range 49W

Intended usage or rating 34.5kV Collection Cable & 4/0AWG Fiber

Cable Size/Type 500KCMIL-1000KCMIL-1250KCMIL & 4/0AWG Casing Size/Type 6" & 8' SDR13.5 HDPE

Outsize pipe diameter 6" & 8" Maximum pipeline operation pressure \_\_\_\_\_

Minimum depth of cable or pipeline: (Under Rural Roadway 48")  (Under Curb/Gutter 24") \_\_\_\_\_ (All Other Areas 36") \_\_\_\_\_ (Overhead) \_\_\_\_\_

Method of installation Directional Bore

Approximate construction dates – Start June 5, 2020 Finish July 30, 2020

Special conditions \_\_\_\_\_

I, the undersigned, request permission to construct and maintain a utility facility on public right-of-way at the above location and as shown on the attached layout sheet and in accordance with provisions of Administrative Rules of South Dakota, Chapter 70:04:05. In consideration for this permission, I agree to abide by all conditions of said rules and in addition, the following:

1. This Utility Permit does not replace any other permit, license, or other approval which may be required by any other entity holding a property interest in the right of way, including but not limited to any tribal government, the Office of School and Public Lands, the United States Forest Service and the Bureau of Indian Affairs. The issuance of this Utility Permit does not relieve the applicant of the obligation to obtain any other approvals that might be required for use of the highway right of way for utility purposes. The applicant is solely responsible for investigating whether additional approval is required and complying with any other applicable requirements. If the applicant fails to secure all necessary approvals or comply with all applicable requirements, this permit is of no effect whatsoever and the Department may, at the applicant's sole expense, cause the immediate removal of the utility facilities.
2. To furnish all materials, labor, incidentals and pay all costs involved with the construction and maintenance of the utility facility. To perform approved open cut trench operations in accordance with current DOT Open Cut Method of Utility Installation or Repair, Administrative Rule Chapter 70:04:05, Appendix A. To restore any damaged portions of the roadway and right-of-way to equal or better conditions than existed prior to beginning work covered by this permit. To not install a utility over the top of any highway drainage structure. To permanently mark above ground pedestals / facilities with metal flags or markers located at least 48" above ground.
3. If deemed necessary by the South Dakota Department of Transportation to move or alter the utility installation in any way due to maintenance or highway reconstruction within its present right-of-way width, the alteration will be accomplished by the owner without cost to the State.
4. To provide protection to highway traffic during construction and maintenance by the use of proper signs, barricades, flag persons and lights as prescribed in the "Manual on Uniform Traffic Control Devices."
5. Workers are required to wear high-visibility safety apparel intended to provide conspicuity during both daytime and nighttime usage, and meeting the Performance Class 2 or 3 requirements of the ANSI/SEA 107-2004 publication entitled "American National Standard for High-Visibility Safety Apparel and Headwear".
6. To indemnify and hold the State of South Dakota, its Department of Transportation, its officers, agents and employees harmless, from and against any and all actions, suits, damages, liability or other proceedings of any kind or nature brought because of any injuries or damage received or sustained by any person or property on account of the use or occupancy of highway right-of-way designated in this application.

Company Wanzek Construction, Inc. on behalf of Tatanka Ridge Wind, LLC Date 6/3/2020 Email Address tapatterson@mastec.com

Address 4850 32nd Ave S City Fargo State ND Zip 58104 Telephone 701-893-3768

By: (Sig.) Tanya L Lance (Typed) Tanya L Lance Title Permit Manager

### To be completed by the Department of Transportation ###

Project 015 Milepost 131.1 to 133.1 Maintenance Unit 171

1. Prior to commencing construction and upon completion of work the applicant shall notify Matt Brey, Area Engineer  
at Watertown telephone 882-5166

2. Special Conditions: No work on inslopes. Roadway surface shall not be disturbed. Coordinate depths with project P-PH 0015 (7) 128 PCN 04HL, scheduled for 2023 reconstruction. Contact designer is Paul Nikolas, 605-367-4970, x. 1802142.

3. Failure to construct and maintain the utility facility in accordance with the provisions of this permit will automatically render this permit null and void and constitute grounds for its removal and/or full restoration of the site at the applicant's expense.

Recommended: \_\_\_\_\_ Date \_\_\_\_\_ Bridge/Roadway Design \_\_\_\_\_ Date \_\_\_\_\_

Approved: Matt Brey City Representative Date 6/3/2020

Approved: \_\_\_\_\_ Area Engineer Date \_\_\_\_\_

Approved: \_\_\_\_\_ Region Engineer Date \_\_\_\_\_

This permit to construct and maintain a utility facility is granted subject to all conditions as herein stated.

## INSTRUCTIONS FOR DOT-200

### APPLICANT:

1. Complete all items in upper portion of form. **Please print or type.**
2. Prepare a separate sheet showing details of the proposed installation. The drawings should include:
  - a. Location of the facility dimensioned to the highway centerline and to the right-of-way line. Show all section lines and approaches that will be crossed. Show legal description on drawing, i.e., Section, Township, and Range for rural areas and Blocks and Lots in urban areas. Show box culverts, bridges and any other permanent features. No utility installation will be allowed on top of drainage pipes.
  - b. Installations on bridges must include details of method of attachment. Allow two (2) additional weeks for approval of the permit.
  - c. Utility company name, a North arrow, sheet number and total number of sheets if more than one. **Use one side of sheet only.**
  - d. Any other pertinent information.
3. Sign and submit one (1) copy of the request and one (1) copy of the attachment to the SDDOT Area Engineer for processing.

### DEPARTMENT OF TRANSPORTATION:

#### Area Engineer:

1. Review request and complete lower portion of form.
2. If request is not approved, return request to applicant stating reason for denial.
3. Obtain city recommendation and DOT Bridge/Roadway Design approval when applicable.
4. Forward to Region Engineer only if application location is within Interstate ROW.
5. If request is approved, forward request and all attachments to the Permit Manager, Office of Right of Way.

### PERMIT MANAGER:

1. Review request and if denied, return to applicant stating reason for denial with copy to Area Engineer.
2. If request is granted, issue permit and send copies of the permit and attachments as follows:  
Area Engineer (2 copies); Applicant (1 copy), and Record Center (original).

### AREA ENGINEER ADDRESS AND APPROXIMATE COVERAGE AREA BY COUNTY:

PO Box 1767, Aberdeen: Brown, Day, Edmunds, McPherson and Marshall.

5000 9<sup>th</sup> Ave SE, Watertown: Brookings, Codington, Deuel, Grant, Hamlin and Roberts.

PO Box 940 Huron: Beadle, Clark, Hand, Hyde, Kingsbury and Spink.

PO Box 1206, Mitchell: Aurora, Brule, Buffalo, Charles Mix, Douglas, Davison, Gregory, Hanson, N. & W. Hutchinson, Jerauld, McCook, W. Miner and Sanborn.

5316 W. 60<sup>th</sup> St. N., Sioux Falls: Lake, N. Lincoln, N.E. Miner, Minnehaha, Moody and N.E. Turner.

1306 W. 31<sup>st</sup> St., Yankton: Bon Homme, S. Charles Mix, Clay, S. & E. Hutchinson, S. Lincoln, S.W. Turner, Union and Yankton.

104 S. Garfield, Pierre: Haakon, Hughes, I90 N. in Jackson and Jones, Stanley, Sully and Potter.

PO Box 771 Winner: Bennett, Lyman, Mellette, Todd, Tripp and I90 S. in Jackson and Jones.

PO Box 488, Mobridge: Campbell, Corson, Dewey, Walworth and Ziebach.

PO Box 1970, Rapid City: W. Jackson, I90 S. in Lawrence, SD34 S. in Meade and Pennington.

10921 SD Hwy 34, Belle Fourche: Butte, Harding, N. Lawrence, N. Meade and Perkins.

PO Box 431, Custer: Custer, Fall River, Oglala Lakota and S.W. Pennington.

## Tatanka Ridge Wind, LLC Collection Bore Location Information

CROSSING ID	STATE HIGHWAY	TYPE	EASTING COORDINATE	NORTHING COORDINATE	SECTION	TOWNSHIP	RANGE	BASIC DESCRIPTION	ESTIMATED LENGTH
1048	STATE HIGHWAY 15	ROAD	2832002.658	301390.705	10 & 11	113N	49W	(3) 1000KCMIL AL + GND + UGFO	200 ft
1051	STATE HIGHWAY 15	ROAD	2831926.164	303062.360	10 & 11	113N	49W	(3) 500KCMIL AL + GND + UGFO	188 ft
1052	STATE HIGHWAY 15	ROAD	2831926.781	303047.391	10 & 11	113N	49W	(3) 1250KCMIL AL + GND + UGFO	188 ft
1053	STATE HIGHWAY 15	ROAD	2831927.401	303032.385	10 & 11	113N	49W	(3) 1250KCMIL AL + GND + UGFO	188 ft
1054	STATE HIGHWAY 15	ROAD	2831928.019	303017.398	10 & 11	113N	49W	(3) 1250KCMIL AL + GND + UGFO	188 ft
1090	STATE HIGHWAY 15	ROAD	2831675.362	310858.624	34 & 35	114N	49W	(3) 4/0AWG AL + GND + UGFO	164 ft

### Bore 1048

Install (3) 200 feet of 1000MCM 34.5KV Collection cable under State Highway 15 via bore for Tatanka Ridge Wind, LLC. Bore shall be located approximately 1,725 feet South of 191<sup>st</sup> Street & State Highway 15 intersection. Cable shall be encased in 8IN SDR13.5 HDPE Conduit.

### Bore 1051

Install (3) 188 feet of 500MCM 34.5KV Collection cable under State Highway 15 via bore for Tatanka Ridge Wind, LLC. Bore shall be located approximately 55 feet South of 191<sup>st</sup> Street & State Highway 15 intersection. Cable shall be encased in 8IN SDR13.5 HDPE Conduit.

### Bore 1052

Install (3) 188 feet of 1250MCM 34.5KV Collection cable under State Highway 15 via bore for Tatanka Ridge Wind, LLC. Bore shall be located approximately 70 feet South of 191<sup>st</sup> Street & State Highway 15 intersection. Cable shall be encased in 8IN SDR13.5 HDPE Conduit.

### Bore 1053

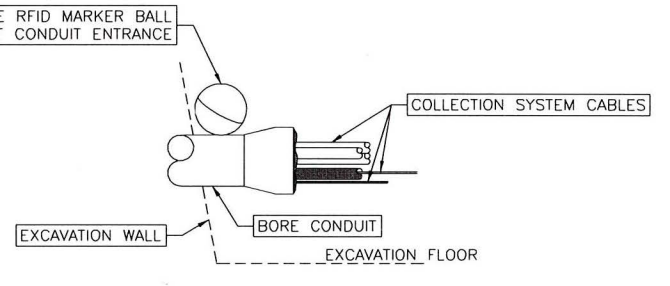
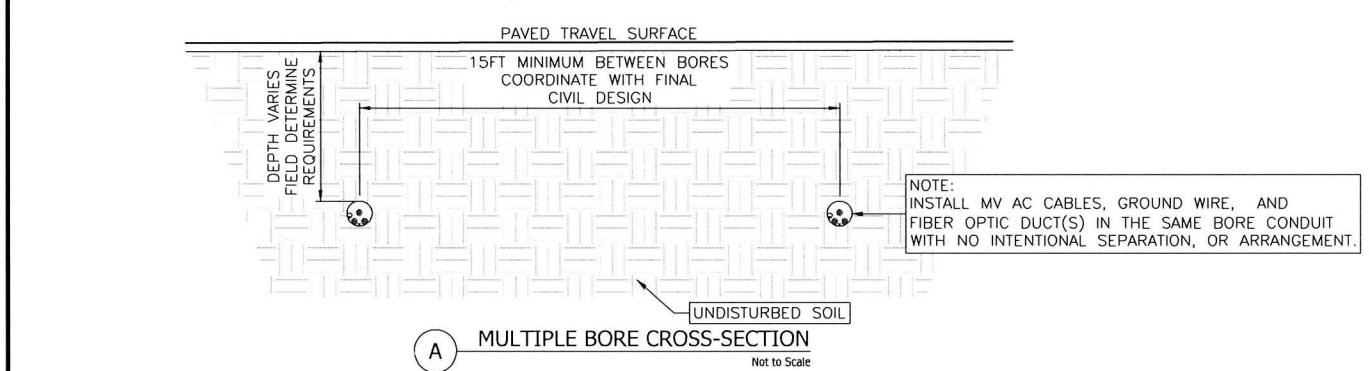
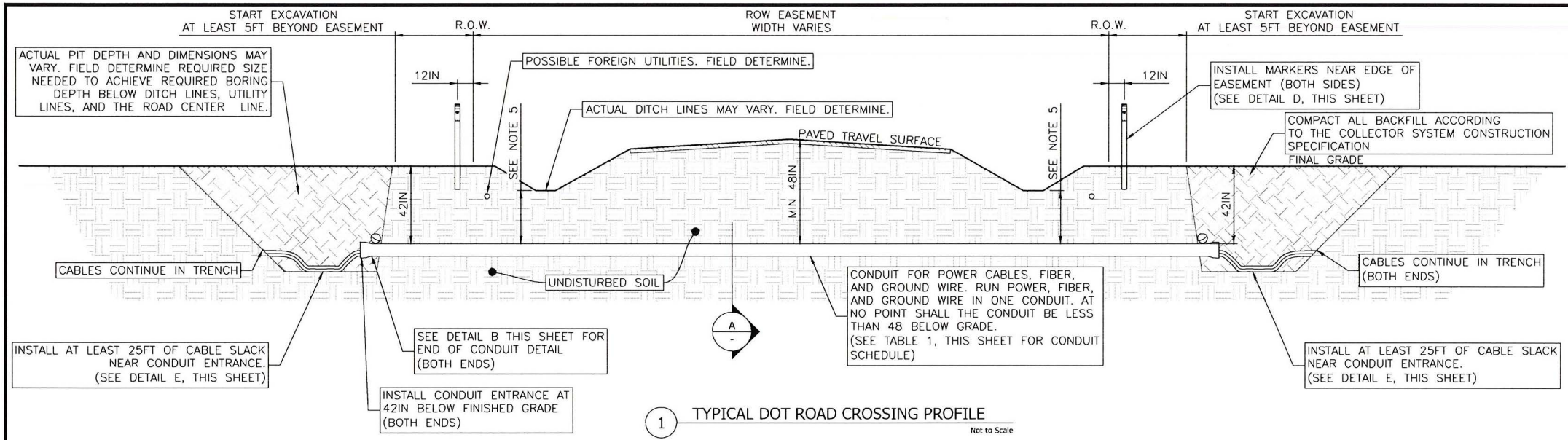
Install (3) 188 feet of 1250MCM 34.5KV Collection cable under State Highway 15 via bore for Tatanka Ridge Wind, LLC. Bore shall be located approximately 85 feet South of 191<sup>st</sup> Street & State Highway 15 intersection. Cable shall be encased in 8IN SDR13.5 HDPE Conduit.

### Bore 1054

Install (3) 188 feet of 1250MCM 34.5KV Collection cable under State Highway 15 via bore for Tatanka Ridge Wind, LLC. Bore shall be located approximately 100 feet South of 191<sup>st</sup> Street & State Highway 15 intersection. Cable shall be encased in 8IN SDR13.5 HDPE Conduit.

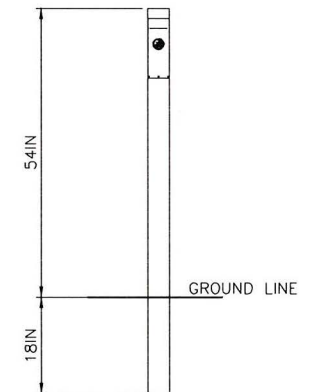
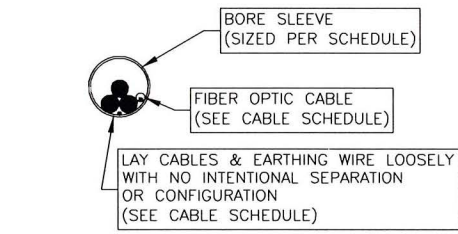
### Bore 1090

Install (3) 164 feet of 4/0AWG Fiber cable under State Highway 15 via bore for Tatanka Ridge Wind, LLC. Bore shall be located approximately 2,525 feet North of 190<sup>th</sup> Street & State Highway 15 intersection. Cable shall be encased in 6IN SDR13.5 HDPE Conduit.



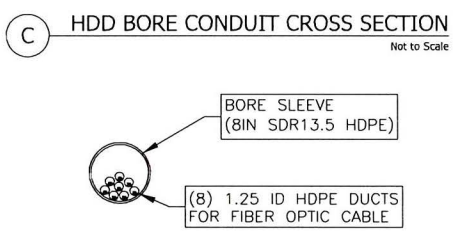
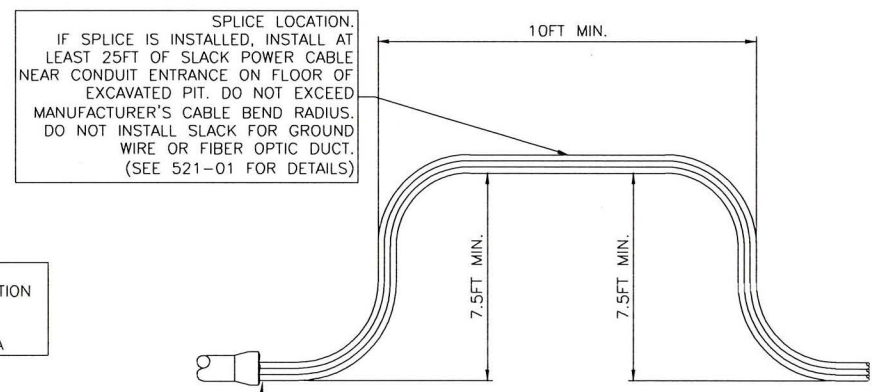
**DETAIL B NOTES:**

- DE-BURR AND TEMPORARILY CAP EACH CONDUIT END AFTER DRILLING OPERATIONS ARE COMPLETE. THESE TEMPORARY CAPS SHALL REMAIN IN PLACE UNTIL CABLE IS PULLED THROUGH.
- PRIOR TO INSTALLING THE CABLE INTO THE CONDUIT, AN END BELL MUST BE INSTALLED AT EACH END OF THE CONDUIT TO MINIMIZE CABLE DAMAGE DURING PULLING.
- AFTER THE CABLE IS INSTALLED, SEAL WITH THE APPROVED SEALING MATERIAL.
- IF ABOVE GRADE MARKERS ARE PROHIBITED, THEN AN UNDERGROUND MARKER BALL MAY BE INSTALLED AT EACH CONDUIT END PRIOR TO BACKFILLING. RECORD GPS COORDINATES, AND DEPTH ON AS BUILT DOCUMENTS.



**DETAIL D NOTE:**  
MARKER POSTS MUST INCLUDE THE FOLLOWING INFORMATION ON THE IDENTIFICATION DECAL:

- IDENTIFICATION OF HIGH VOLTAGE CIRCUIT
- THE APPROPRIATE ONE CALL NUMBER FOR THE AREA



**DETAIL F NOTE:**  
FOR CROSSINGS BETWEEN FIELD VAULT AND O&M BUILDING ONLY.

**GENERAL NOTES**

- EXISTING UNDERGROUND UTILITIES MAY BE PRESENT WITHIN OR ADJACENT TO THE EXCAVATION AREA(S). CONTACT LOCAL "ONE CALL" UTILITY LOCATING SERVICE AT LEAST 48 HOURS PRIOR TO EXCAVATION. MAINTAIN LOCATION MARKS AS NEEDED UNTIL INSTALLATION IS COMPLETED.
- REFERENCES TO ANY UNDERGROUND OR EMBEDDED FACILITIES ARE PROVIDED TO ASSIST THE CONTRACTOR /INSTALLER IN THE FIELD LOCATING THOSE FACILITIES AND OTHER POSSIBLE UNDERGROUND OR EMBEDDED INTERFERENCES WITH THE WORK.
- VERIFY THE PROPER CROSSING DETAIL TO BE USED FOR CROSSING EACH ROAD PRIOR TO BEGINNING INSTALLATION. INSTALL ALL UNDERGROUND CABLE CROSSINGS IN COMPLIANCE WITH THE APPROVED DETAIL FOR EACH CROSSING.
- UNLESS OTHERWISE NOTED, INSTALL ALL UNDERGROUND CABLE CROSSINGS AT COUNTY AND STATE ROADS AND HIGHWAYS WITH DIRECTIONALLY BORED HDPE CONDUIT.
- ALL COUNTY ROAD CROSSINGS MUST MAINTAIN AT LEAST 48 INCHES UNDER ANY EXISTING UTILITIES, OR 48 INCHES UNDER THE CENTERLINE OF THE ROAD, OR 48 INCHES BELOW THE DITCH LINES, WHICHEVER IS DEEPER. VERIFY DEPTH REQUIRED WITH ENGINEER BEFORE CROSSING IS COMMENCED.
- INSTALL A #6 COPPER CLAD STEEL GROUND WIRE IN THE SAME CONDUIT WITH THE POWER CABLES.
- OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK. PREPARE NECESSARY DRAWINGS OR SKETCHED DETAILS OF THE CABLE CROSSING AS PART OF THE PERMIT APPLICATION. THE CONTRACTOR IS RESPONSIBLE FOR APPLYING FOR AND SECURING ANY AND ALL PERMITS AND PERMIT PAYMENTS AND/OR APPLICATION FEES. COMPLY WITH ANY PERMITS OBTAINED. IN THE CASE THAT THIS DOCUMENT CONFLICTS WITH THESE PERMITS, COMPLY WITH THE PERMITS AND NOTIFY THE ENGINEER OF RECORD OF THE CONFLICT.
- OBTAIN OWNER APPROVAL FOR ALL UNDERGROUND CROSSING CONSTRUCTION METHODS.
- NO DIGGING OR EQUIPMENT WILL BE PERMITTED IN CENTER MEDIANS OR DITCH LINES OR ROAD R.O.W. WITHOUT WRITTEN PERMISSION FROM THE EASEMENT OWNER.
- IF A SPLICE IS NEEDED TO PROPERLY INSTALL THE CABLE INTO THE BORE CONDUIT, A SINGLE SPLICE MAY BE USED ON ONE SIDE OF THE CROSSING. THE SPLICE MUST BE PLACED OUTSIDE OF THE RIGHT-OF-WAY, EASEMENT, OR ANY OTHER PROPERTY SETBACKS FOR FUTURE ACCESS. INSTALL ALL SPLICES ACCORDING TO THE UNDERGROUND POWER CABLE SPLICING DETAILS.
- IN THE INTEREST OF SAFETY, TRENCHING AND THE PARKING OF EQUIPMENT SHOULD BE PERFORMED AS FAR AS POSSIBLE FROM TRAFFIC LANES.
- RE-COMPACT DISTURBED SOILS TO PRE-EXCAVATION DENSITY. PLACE ANY BORING, RECEIVING, OR OTHER PITS OUTSIDE OF EASEMENT BOUNDARY. PIT LAYOUT SHOWN IS REPRESENTATIVE AND INTENDED TO INDICATE GENERAL SCOPE OF WORK. ACTUAL DIMENSIONS REQUIRED MAY VARY.

**TABLE 1 - BORE CONDUIT SCHEDULE**

FOR CABLES THIS SIZE	MIN. CONDUIT SIZE
4/0AWG AL	6" SDR13.5 HDPE
500MCM AL	8" SDR13.5 HDPE
1000MCM AL	8" SDR13.5 HDPE
1250MCM AL	8" SDR13.5 HDPE
FIBER OPTIC CABLE	8" SDR13.5 HDPE

**REFERENCED DRAWINGS**

- E-520 UG CABLE TRENCH DETAILS
- E-549 UG POWER CABLE SCHEDULE

**ISSUED FOR CONSTRUCTION**

NO.	REVISIONS	DATE	BY	CHK	APR	NO.	REVISIONS	DATE	BY	CHK	APR
						0	ISSUED FOR CONSTRUCTION	03/13/20	JAM	EHK	SRA

ENGINEERING RECORD	DATE	<b>TATANKA RIDGE WIND PROJECT</b> <b>34.5KV COLLECTOR SYSTEM</b> <b>TYPICAL DOT ROAD CROSSING DETAILS</b>
DRAWN: J. McCORMACK	03/13/20	
DESIGNED: J. McCORMACK	03/13/20	
CHECKED: E. KOEHLER	03/13/20	
APPROVED: S. AKERS	03/13/20	
CADFILE: TRW-E-522-01.DWG	SCALE: NONE	DWG NO: TRW-E-522-01
		SHEET 1 OF 3