

## Conditions of the Utility Permit

Effective January 1, 2019

### General:

1. Work in the public right-of-way and public easement areas are regulated by Sioux Falls City Ordinance Chapter 96, Right-Of-Way Construction and Administration.
2. The associated City Ordinance defines the right-of-way (ROW) as – *the surface and space above and below any real property in which the city has an interest in law or equity, whether held in fee, or other estate or interest, or as a trustee for the public, including, but not limited to any section line right-of-way, public street, boulevard, road, highway, freeway, lane, alley, court, sidewalk, parkway, river, tunnel, viaduct, bridge, park or any other place, area, or real property owned by or under the control of the city. RIGHT-OF-WAY includes the standard ten-foot utility easement platted in the front ten feet of platted lots or any easements acquired by the city through the platting process or any other acquisition.*
3. Per City Ordinance a utility permit is required before performing any work in the public ROW.
4. The utility company and/or contractor shall be insured, bonded, and permitted with the City of Sioux Falls prior to working in the public ROW.
5. The utility company and/or contractor shall contact the City Engineer's Office 48 hours prior to starting construction of any permitted plans.
  - a. Ultimately the utility company will be responsible for notifying the City as the permit holder. If the City is not notified prior to starting work, the utility permit will be rescinded and work shall cease immediately.
  - b. Emergency repairs or replacements will be exempt from this requirement.
6. Notification shall be given to the City Engineer's Office immediately when a permit is completed so a final inspection can be performed. This notification is separate from the monthly Permit Status Report that is required by City ordinance 96.237.

7. Construction crews and/or contractors shall have a copy of the permit and construction drawings at the job site. This will show the location of the facilities to be installed and if any special conditions are required.
8. Call South Dakota One Call (811) to locate all utilities, including services, before making excavations.
9. All new facilities shall be installed in the standard location in the ROW unless approved by the City Engineer's Office.
10. Contact City Engineer's Office for approval if permitted plan locations need to be altered once fieldwork has begun.
11. Notifications for abutting properties will not be required in emergency situations.
12. When working in the Central Business District (CBD) contact Public Parking Facilities Office at 367-8170 for use of restricted or metered parking spaces. The CBD is the core area of the city which is bounded by Minnesota Avenue, Fourth Street, Big Sioux River, Second Avenue and 14th Street. Failure to do so may result in a citation being issued.
13. When working in CBD, coordinate work with Downtown Sioux Falls group at 338-4009.
14. CIP Interactive Map: <http://www.siouxfalls.org/public-works/street-construction>

**Traffic Control:**

1. Provide and maintain construction signing to meet the Manual on Uniform Traffic Control Devices (MUTCD) requirements on any lane closure needed.
2. Prior to construction on or adjacent to arterial or collector streets and in the CBD, the utility company, signing company and/or contractor must supply a Traffic Control Plan to the City Traffic Engineer for approval. This plan must be submitted a minimum of 4 business days prior to any requested lane/street and sidewalk closures. There may be a prohibition for selected times of peak traffic (typically 7 to 8:30 a.m. and 4 to 6:00 p.m.).
3. Access to private properties must be provided at all times unless arrangements have been made with the property owner.
4. During winter months, traffic control shall be removed whenever City snow removal operations are anticipated.

**Property Owner Notification:**

1. Notification will be required to all abutting property owners along a proposed construction route as a condition of each permit issued. The intent of this notification is to inform the property owners, in writing, the type and duration of work being performed and provide contact information of the company performing the work. This notification

also gives the property owner a person to contact when identifying any existing private facilities in the ROW, including, but not limited to sprinklers and other utility lines.

2. Primary methods to communicate with the property owners are mailings, door hangers and automated telephone messaging. Secondary methods could be verbal communication or the use of social media. The level of communication required will be dependent on the level and impact of the proposed utility installation. In high impact areas such as the working in the CBD or along major arterial streets, a mailing will be required. Tenant/Property owner notice of at least one week is required prior to working in and/or closing alleys in the CBD. There may be times when the City of Sioux Falls decides that a project is so broad; a public meeting will be required.
3. Notifications will not be required in undeveloped areas or in newly developed subdivisions where minimal amounts of homes have been constructed.
4. The communication to the property owner should include:
  - a. Utility company name – Contact person and telephone number/email address
  - b. Dates of work
  - c. Description of work
  - d. Construction company information
  - e. Restoration to be used (black dirt, seed/sod, fertilizer, watering, etc.)

#### **Paved Areas:**

1. The paved area is the area in the ROW from the back of curb to the back of curb, and includes street surfacing, curb and gutter, fillets, and valley gutters.
2. **All street cuts must be approved by the City Engineers Office prior to doing any work.**
3. Pavement cuts and restoration:
  - a. A 48 hour notice must be given to the City Engineering Office prior to any street cuts or coring to locate existing facilities.
  - b. All concrete and asphalt street cuts must be sawed to full depth before removals.
  - c. All restoration methods of pavement section(s) shall be approved by the City Engineer's Office.
  - d. All concrete restoration work must be done by a contractor that is insured and bonded for that type of work by the City of Sioux Falls.
  - e. Asphalt patching shall be done by the City Street Department unless other arrangements have been made in advance and approved by the City. The area

to be patched shall be prepared by the contractor (compact soil, saw edges, base course, etc.). When the area is ready to be patched, notify the City Engineering Office.

- f. Street trench compaction shall meet the standards outlined on City Plate Number 1000.02 prior to restoring pavement.
- g. See **Guidelines for Utility Crossing of Public Streets** for more information.

#### **Unpaved Areas:**

1. The restoration requirements for all city issued permits will be the same standards used on public construction projects.
2. Good backfilling techniques and compacting trench fill material must be followed within the public ROW. Compaction methods used should limit the amount of future settlement. This does not simply mean pushing dirt back into the utility trench but to compact the soil to a minimum 90% standard proctor density in non-paved areas.
3. Disturbed areas shall be maintained until it matches the surrounding undisturbed area within the project.
4. Restoration Requirements

The following information is to provide the Contractor the minimum requirements regarding topsoil, seeding, sodding, fertilizing and watering of any disturbed areas.

##### a. Topsoil

- i. Contaminated topsoil must be removed and replaced.
- ii. Excavate all disturbed areas to a minimum depth of 6 inches after which topsoil shall be placed and compacted.
- iii. The topsoil provided shall be smooth, uniform, free of stones 1 inch or larger in any dimension, roots and other extraneous or undesirable material harmful to plant growth.
- iv. The placement of the topsoil shall be as soon as possible upon completion of installation of facilities and any concrete restoration but no later than one week after installation/restoration work had been completed.

##### b. Seed

- i. For arterial and collector streets. Seed shall be Millborn Seeds, Inc. (Brookings, SD) "Arterial and Collector Seed Mixture" or approved equal.

a. 20% Diva Kentucky Bluegrass

60 lbs

b. 20% Palmer IV Perennial Ryegrass	60 lbs
c. 20% Boreal Creeping Red Fescue	60 lbs
d. 20% Ambrose Chewing Fescue	60 lbs
e. 20% Salty Alkaligrass	60 lbs
Total	300 lbs/acre

ii. For Parks and local streets. Seed shall be Millborn Seeds, Inc. (Brookings, SD) "Quality Green Turf Mixture" or approved equal.

a. 60% Improved Kentucky Bluegrass	155 lbs
b. 25% Fine-Leaf Perennial Ryegrass	65 lbs
c. 15% Creeping Red Fescue	40 lbs
Total	260 lbs/acre

iii. Seed shall have a minimum purity of 98% and a minimum germination of 85%.

iv. The seed shall be raked into the topsoil.

c. Sod

i. Sodding shall conform to section 733 of the SDDOT Standard Specifications for Roads and Bridges.

ii. The sod shall consist of a minimum of 3 Kentucky Bluegrass cultivars and may not be grown on peat.

iii. When preparing the surface, the soil shall be loosened to a minimum depth of 2 inches prior to placement of the sod.

d. Fertilizer

i. A starter fertilizer with a minimum guaranteed analysis of 12-24-12 or an approved alternate fertilizer shall be applied to all areas designated for permanent seeding and/or sodding.

ii. The application rate shall be 250 pounds per acre.

iii. A starter fertilizer shall be used unless declined by the property owner.

e. Hydro Seeding

i. Sometimes called hydraulic mulch seeding, hydro-mulching, or hydro seeding, is a planting process in which a slurry containing seed, hydro seeding mulch, fertilizer and a tackifier (bonding agent) is sprayed onto the ground.

ii. This is an acceptable restoration option for seeding and fertilizing.

- f. Erosion Control Blanket (ECB)
  - i. ECB is used to prevent soil erosion, retain ground moisture, and help seed establishment.
  - ii. A Type 2 ECB from the SDDOT Approved Product list or approved equal shall be used.
- g. Water
  - i. As the utility company is ultimately responsible for establishing the turf area, application of water is encouraged.
  - ii. Water should be applied to seed/sod at a rate and frequency that keeps the seed/sod bed moist and damp for a period of time after installation.

**Sidewalks:**

1. Any sidewalk and/or curb removed at intersections must be replaced with approved sidewalk curb ramps in accordance with the Americans with Disabilities Act and City standards.
2. All sidewalks must be replaced as soon as possible but no later than one week after underground work had been completed on the block.
3. No small cuts or coring to locate existing utilities are allowed in sidewalks. The entire panel from joint to joint must be removed and replaced.
4. Concrete must be sawed full depth before removals.
5. Adjacent sidewalk panels damaged during construction or restoration must be replaced.

**Restoration (General Notes):**

1. Restoration should begin as soon as possible after the installation of facilities is complete but no later than one week after installation on a permit for a small project.
2. On a permit that covers multiple blocks, restoration must begin no later than one week after installation is completed on the first block unless approved by the City Engineer's Office.
3. The utility company guarantees its work and shall maintain the ROW area for 12 months (24 months for trench settlement) following completion of restoration.
4. Ditch Restoration
  - a. If trenching is the installation method, backfill must be compacted to 90% standard proctor density.
  - b. All disturbed areas should be restored to match the existing conditions with a minimum of 6 inch topsoil depth placed and compacted.

- c. Erosion control shall be used as needed.
5. New Subdivisions
- a. All disturbed areas should be restored to match the existing conditions.
  - b. If the installation area is graded dirt, backfilling and compaction is all that is required. If the area has been improved with black dirt and grass, the standard restoration methods shall be required.
  - c. All trenches outside of the street area must be compacted to 90% standard proctor density. All street crossings must be compacted to 95% standard proctor density and meet the standards outlined on City Plate Number 1000.02.

## **Guidelines for Utility Crossing of Public Streets**

**ALL STREET CUTS MUST BE APPROVED BY THE CITY ENGINEERS OFFICE PRIOR TO DOING ANY WORK.**

### **Concrete Streets**

1. Concrete less than 5 years old, replace full panel.
2. Concrete 5 – 10 years old:
  - a. In the wheel path, replace full panel.
  - b. Outside wheel path, core hole (8" max) with epoxy repair.
3. Concrete greater than 10 years old:
  - a. In the wheel path, partial panel replacement.
  - b. Outside wheel path, core hole (8" max) with epoxy repair.

### **Asphalt Streets**

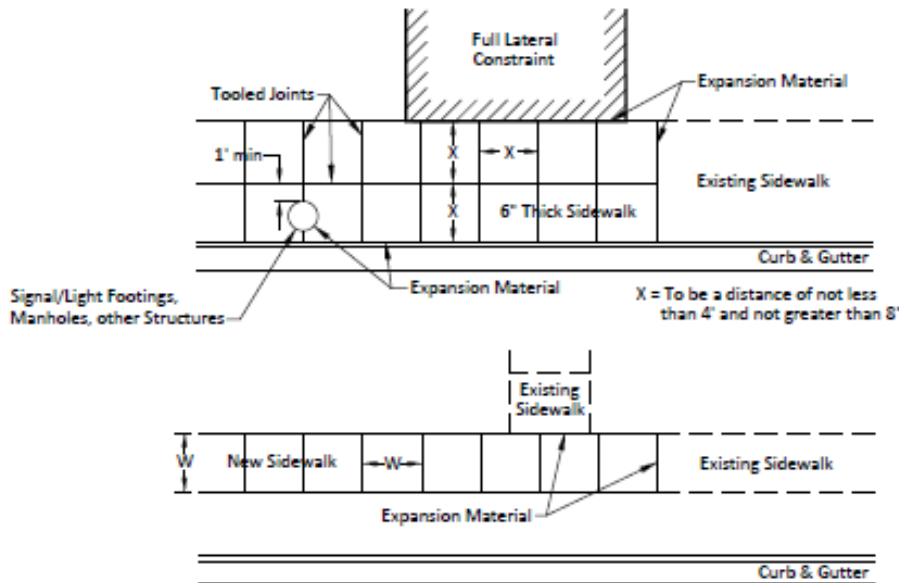
1. Asphalt less than 5 years old, core hole allowed.
2. Asphalt greater than 5 years old, 18" minimum street cut allowed.
3. Surface treatment or mill and overlay may be required following the work depending on the extent of the cuts.

These are general guidelines only. Call the City Engineers Office for an evaluation.



**Sidewalk Replacement Guidelines**

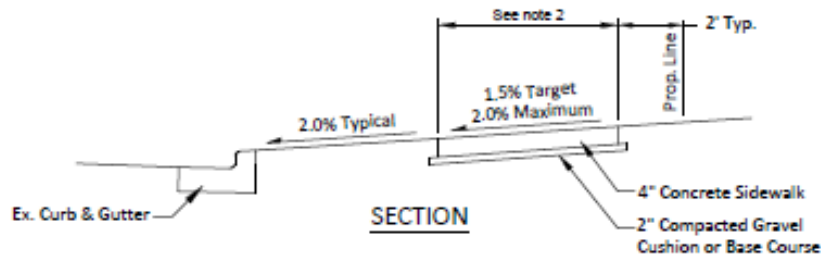




W = The width of the sidewalk joint spacing should be equal to the width of the sidewalk. (See note 2 below)

**PLAN**

Expansion joints shall be placed at 50 foot intervals, or to the nearest tooled joint.



**SECTION**

**GENERAL NOTES:**

1. The concrete for sidewalk shall be class M-6 concrete.
2. Sidewalk width shall be 4 feet minimum on local streets and cul-de-sacs with residential housing. On collector and arterial streets and areas abutted by commercial, industrial, and multi family lots, the minimum sidewalk width shall be 5 feet. When sidewalk is located back of curb, the minimum width shall be 6 feet.  
  
For new construction on local streets and cul-de-sacs with residential housing a 5 foot wide by 5 foot long passing space is required every 200 feet. To accommodate this requirement the sidewalk must be a minimum of 5 foot wide through the driveway approach. This additional width should be located on the house side of the approach unless there are right of way restrictions making it necessary to place the additional width on the street side of the approach.
3. Location of sidewalk from curb line will vary, however, in most instances the sidewalk will be located 2' off the property line. Verify sidewalk locations with the City Engineers office before proceeding.
4. All sidewalks shall have a 4' minimum wide path which will serve as the pedestrian access route. This pedestrian access route shall be clear of all obstructions such as light poles, signal poles, meter posts, etc. Additionally, the maximum cross slope on the pedestrian access route is 2%. Positive drainage must be maintained on all sidewalks.
5. Sidewalk placed directly behind the curb and gutter shall be a minimum of 6" in depth.
6. Isolation joints shall either intersect structures or be a minimum 1 foot clear of structure.

Revised: October 2016

SPECIFICATION  
REFERENCE  
NO. 651



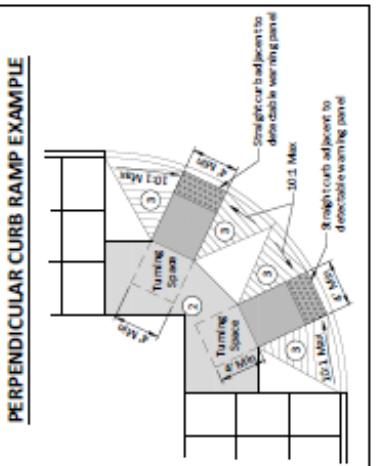
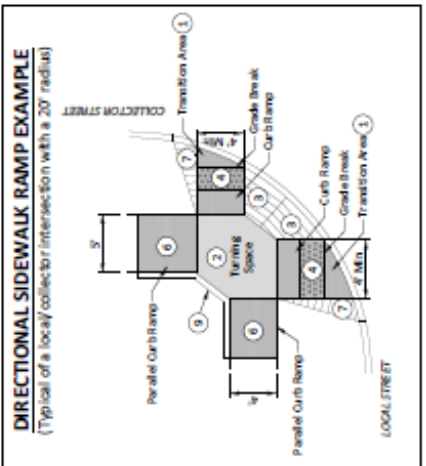
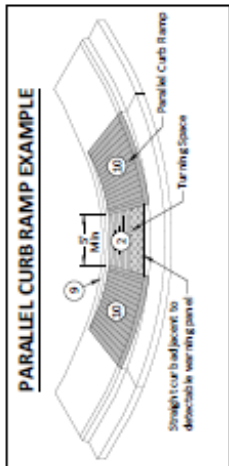
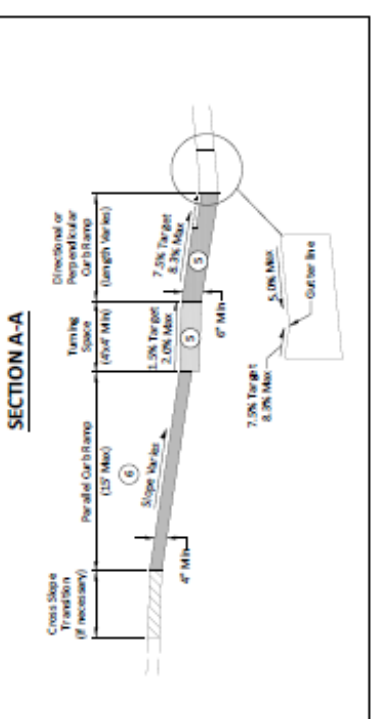
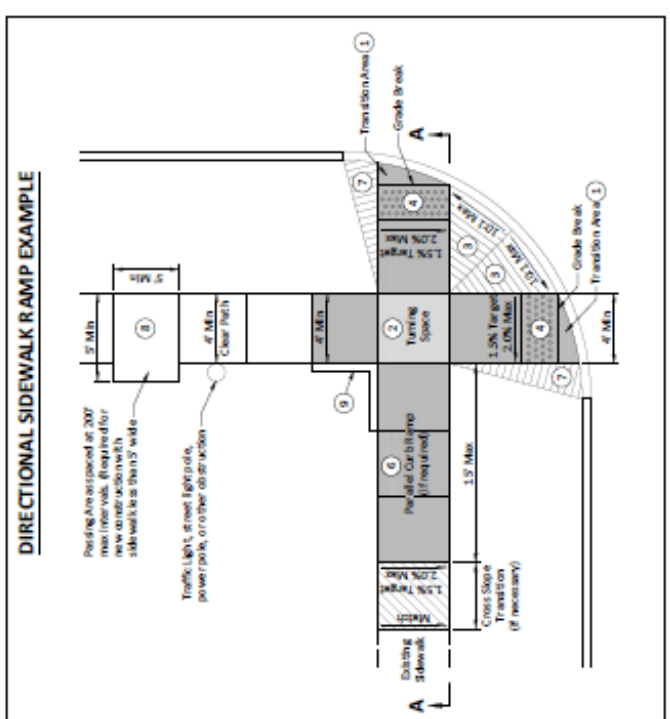
CITY OF SIOUX FALLS  
ENGINEERING DIVISION  
SIDEWALK LAYOUT DETAILS

PLATE  
NUMBER  
651.01

- NOTES:**
- Transition shall be 2% maximum cross-slope on the ramp and the perpendicular warning panel shall be a minimum slope of 2% in the direction of travel. The ramp slope shall be 1.5% on steep or yield controlled legs and 3% on uncontrolled or signalized legs.
  - Minimum 4 feet by 4 feet, Target cross slope of 1.5% with a maximum cross slope of 2.0% in any direction. Where the turning space is confined at the back of sidewalk (example: 6' curb or building), the turning space shall be 4 feet by 5 feet minimum. The 5-foot dimension shall be in the direction of ramp run. The grade change between the turning space and the curb ramp must be perpendicular to the direction of travel.
  - Areas where the pedestrian circulation path crosses a curb ramp are on one side of the curb. The maximum slope of the cross-slope is 1.0%. Full curb height may not be able to be established on these slopes but as much curb height as possible should be used.
  - Provide a minimum 2-foot width of detectable warning surfaces in the direction of pedestrian travel across the full width of the curb ramp or turning space, exclusive of curb or flares. Object height in the direction of pedestrian travel shall be established in plan.
  - The concrete in the turning space, curb ramp, and flange slope areas shall be a minimum thickness of 6 inches.
  - If normal sidewalk elevation cannot be achieved with the parallel curb ramp, between the lowest turning space due to limited ramp length, provide a parallel ramp to make up the elevation difference between the turning space and the standard sidewalk. This parallel ramp shall not exceed 2.0% slope. However, the length of the ramp is not required to exceed 15 feet, regardless of slope. The minimum sidewalk thickness for the parallel ramp in this area is 4 inches.
  - Install a 2-foot taper when additional sidewalk will not be located adjacent to the curb ramp.
  - To accommodate the passing area requirements, sidewalks must be a minimum of 5 feet wide through the driveway approach. See plate DS-LDC for additional information.
  - Depending on the conditions, curb up to 6 inches high may need to be installed on the back of the turning space or along the sidewalk.
  - The slope of curb ramp and adjacent curb is designed at 7.5% or less but shall not be steeper than 8.3% unless otherwise specified in the plans. The curb ramp is not required to exceed 15 feet, regardless of slope. The cross-slope target is 1.5% with a maximum cross-slope of 2.0%.
- GENERAL NOTES:**
- The turning space, curb ramp, and detectable warning panel area will be the bid unit of contract with prices for the corresponding concrete sidewalk bid item.
- The detectable warning panel shall be measured and paid for to the nearest square foot. Payment shall include all costs for materials, labor, and equipment necessary for the installation of the detectable warning panels.
- Revised: October 2016

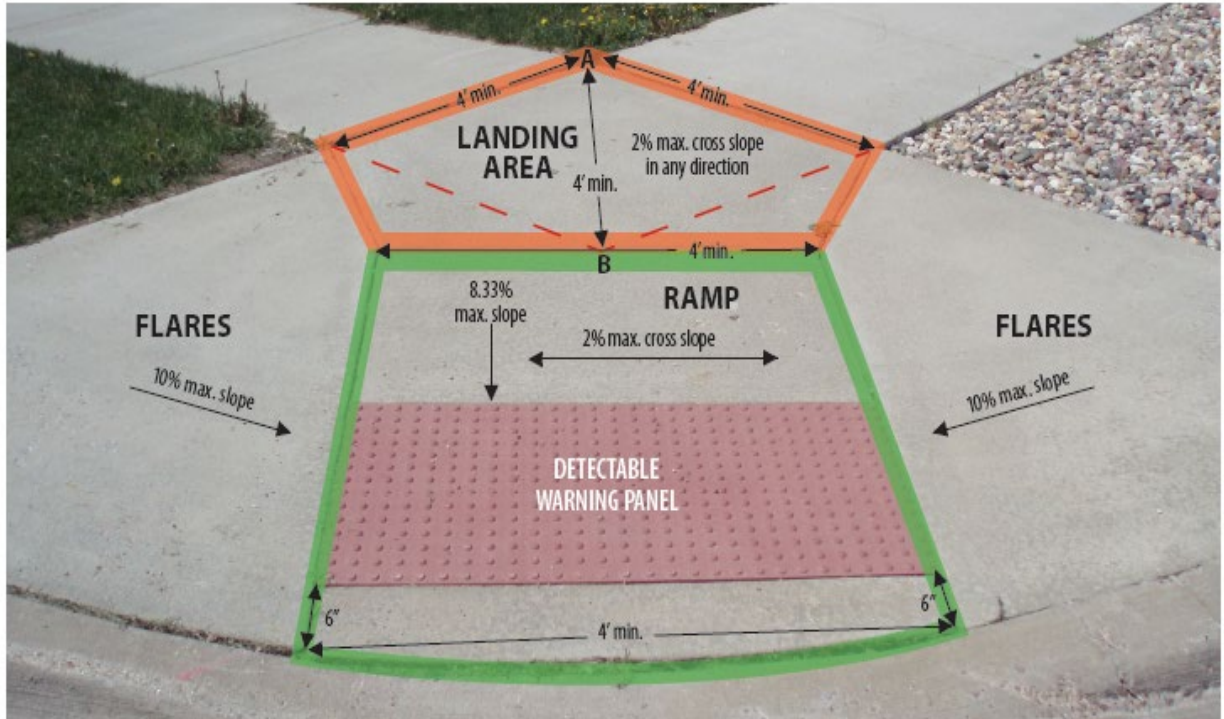
CITY OF SIOUX FALLS  
ENGINEERING DIVISION  
**ACCESSIBLE CURB RAMPS**

SPECIFICATION REFERENCE <b>NO. 650</b>	PLATE NUMBER <b>651.02</b>
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## Curb Ramp Examples

### TYPICAL SIDEWALK CURB RAMP\*



### HYBRID SIDEWALK CURB RAMP\*

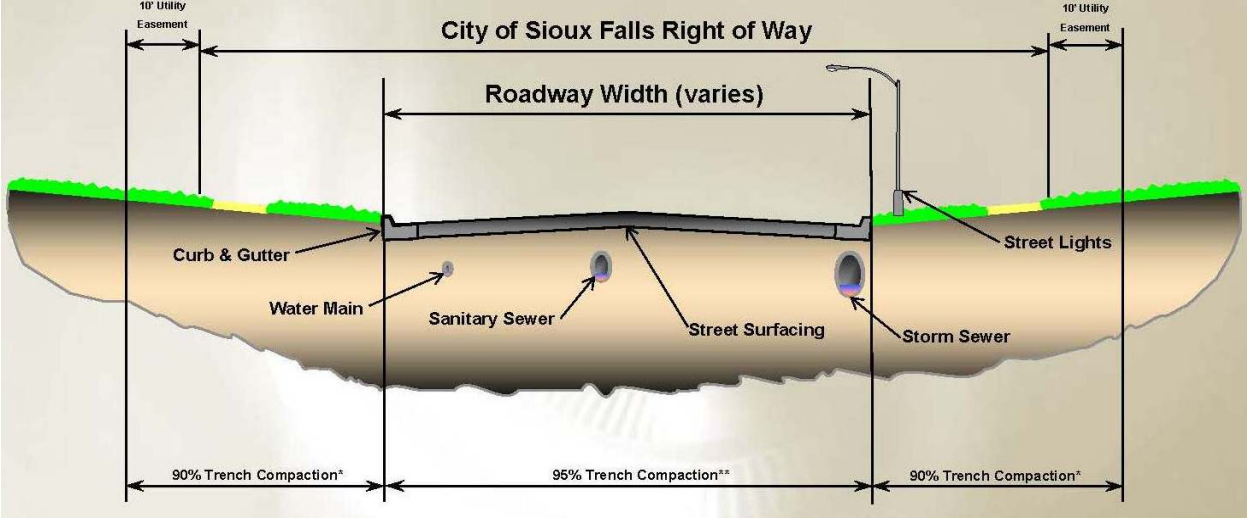
Below is an illustration of a hybrid sidewalk curb ramp where there is a large curb radius. Here the required landing area is located at the bottom of the ramps.



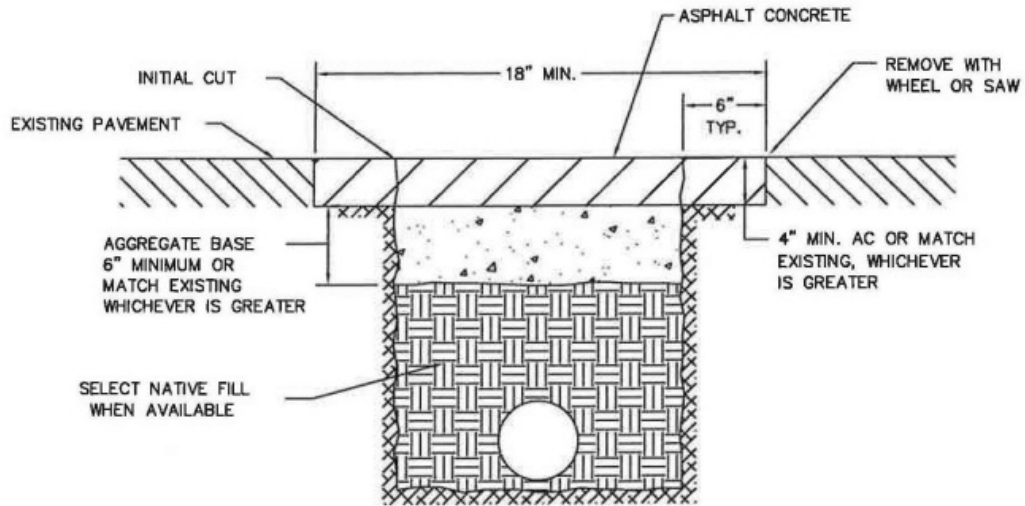
# TYPICAL SECTION

## Public Improvements

(Not to Scale)



## UTILITY TRENCH DETAIL



- 1) ALL TRENCHES IN ARTERIAL AND COLLECTOR STREETS SHALL BE BACKFILLED AND TEMPORARILY PAVED OR STEEL PLATED AT THE END OF EACH WORKING DAY.
- 2) TRAFFIC CONTROL TO MEET THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 3) BACKFILL MATERIAL TO BE PLACED IN 8" MAX. LIFTS AT 95% COMPACTION.
- 4) CONCRETE REPLACEMENT AND REINFORCEMENT TO BE AS PER CITY OF SIOUX FALLS STANDARD PLATES.
- 5) PAVEMENT ON ALL TRENCH EXCAVATIONS WITHIN 5' OF THE GUTTER PAN SHALL BE REMOVED TO THE PAN.
- 6) WHEN WEATHER CONDITIONS PREVENT USING SELECT NATIVE FILL, CRUSHED QUARTZITE MATERIAL (ROCK DUST) MAY BE USED FOR BACK FILL WITH CITY ENGINEER'S APPROVAL. COMPACTION REQUIREMENTS MUST BE FOLLOWED FOR CRUSHED QUARTZITE MATERIAL.

REVISED: SEPTEMBER 1997

SPECIFICATION  
REFERENCE  
NO.  
1000



CITY OF SIOUX FALLS  
ENGINEERING DIVISION  
UTILITY TRENCH REPAIR DETAIL

PLATE  
NUMBER  
1000.02

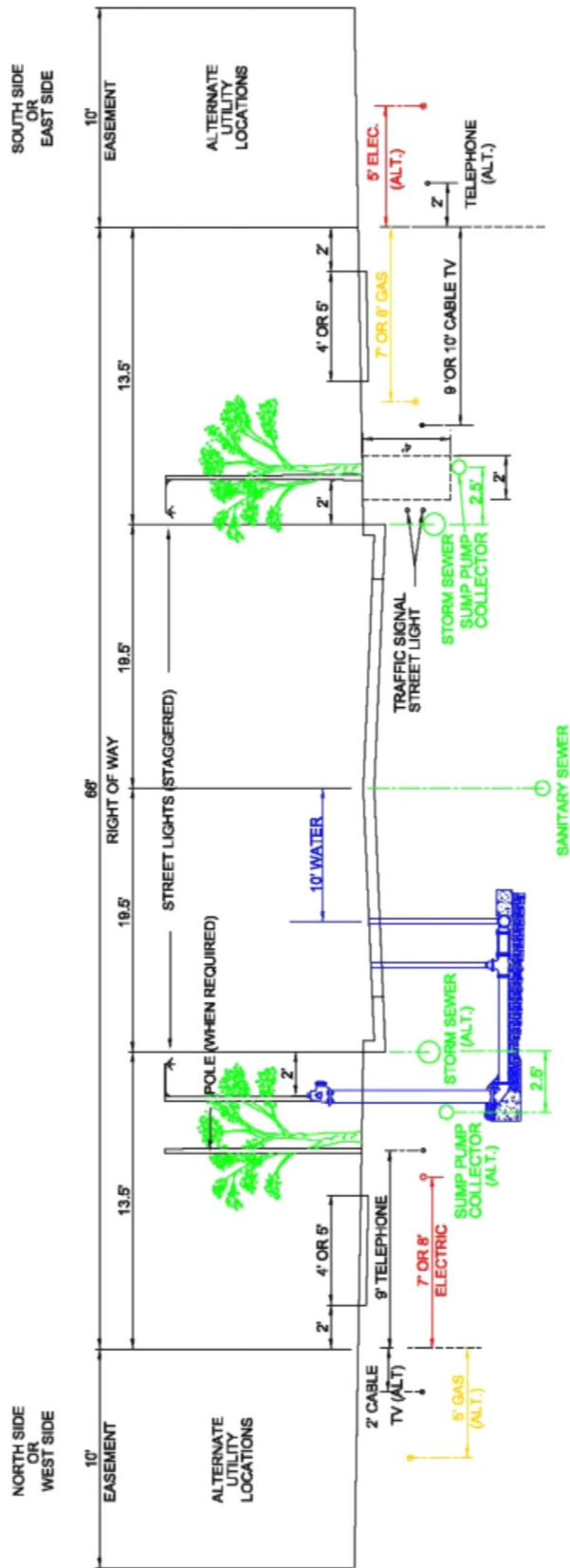


FIGURE 4.3

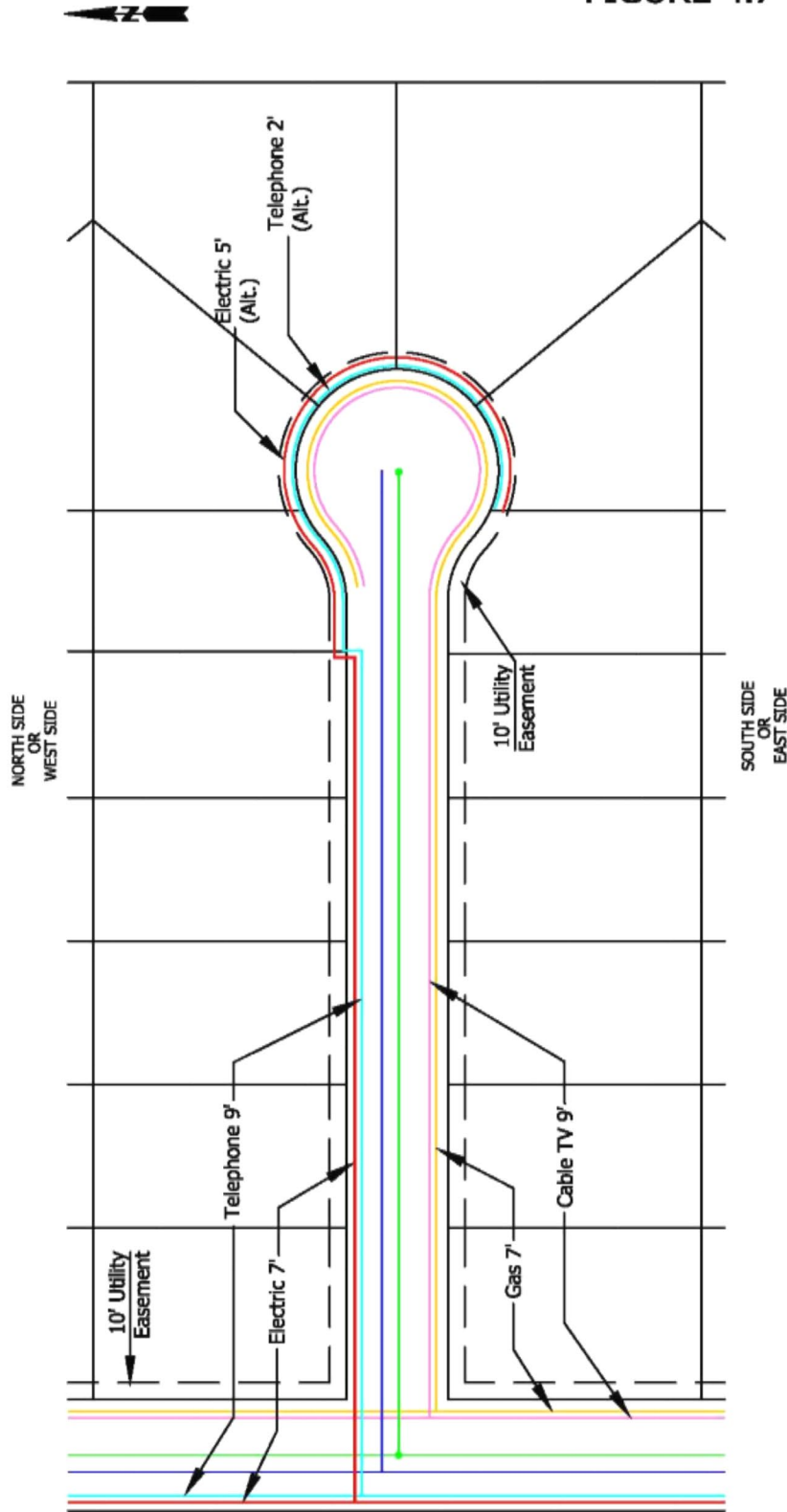
66' RIGHT OF WAY  
NO SCALE

NOTES:

- Electric Co. & Telephone Co. have the Option of Placing Main Feeder Lines Under the Sidewalk on the North & West Sides if Preferred.
- Gas Co. has the Option of Placing Main Feeder Lines Under the Sidewalk on the South & East Sides if Preferred.
- All Utilities Shall Maintain a Minimum of 5' of Clearance from Fire Hydrants & Light Poles.
- Utility Co. shall have Approval from the City Engineer's Office Prior to Locating Their Respective Utility Within the Alternate Utility Location or any Location which is not in Compliance with this Standard.
- Light Poles have been Set Back to 4' from Back of Curb to Allow Additional Clearance for the Storm Sewer.

	NORMAL DEPTH OF COVER
STREET LIGHTS	24"
GAS	30"
TELEPHONE	30" - 36"
ELECTRICITY	30" - 42"
STORM SEWER	24" MIN.
SANITARY SEWER	60" MIN.
WATER	72"
CABLE TV	30" - 36"
SUMP PUMP COLLECTOR	48"

FIGURE 4.7



**CUL-DE-SAC TYPICAL UTILITY LOCATIONS**

NO SCALE

**NOTES:**

- Electric Co. & Telephone Co. have the Option of Placing Main Feeder Lines Under the Sidewalk on the North & West Sides if Preferred.
- Gas Co. has the Option of Placing Main Feeder Lines Under the Sidewalk on the South & East Sides if Preferred.
- All Utilities Shall Maintain a Minimum of 5' of Clearance from Fire Hydrants & Light Poles.
- Utility Co. shall have Approval from the City Engineer's Office Prior to Locating Their Respective Utility Within the Alternate Utility Location or any Location which is not in Compliance with this Standard.

	NORMAL DEPTH OF COVER
STREET LIGHTS	24"
GAS	30"
TELEPHONE	30" - 36"
ELECTRICITY	30" - 42"
STORM SEWER	24" MIN.
SANITARY SEWER	60" MIN.
WATER	72"
CABLE TV	30" - 36"
SUMP PUMP COLLECTOR	48"