

**APPLICATION AND AGREEMENT FOR USE OF
HIGHWAY RIGHT-OF-WAY FOR UTILITIES ACCOMMODATION**

FORM 810025 (03-10)

FOR DEPARTMENT USE ONLY		
Permit Number 77U-2021-158	Highway Number US6	County Polk
DOT Project Number STP-6-4(119)-20-77		Expiration/Completion Date 10/15/22

APPLICANT (INDIVIDUAL OR COMPANY)				
First Name Marcus	Middle Initial	Last Name Moulds	Phone Number 515-414-6852	Ext.
Company Name Unite Private Networks, LLC			Phone Number 866-813-3608	Ext.
Street Address 1415 28th Street Suite 240		City/Town West Des Moines	State IA	ZIP Code 50266
e-Mail Address marcus.moulds@upnfiber.com		Secondary e-Mail Address		

INSTALLATION TO BE ACCOMMODATED
Approval is hereby requested to enter within the state highway right-of-way for the accommodation of a utility installation as detailed on the attachments and further described as follows.

The installation shall consist of:
Two 1 1/4" SDR 13.5 HDPE conduit and a single 96 count fiber optic cable, running along Hickman Road (Us Highway 6) from Deer Creek Trail to west of Interstate 35/80 in Urbandale/Clive.

NewCom Permit # UPN-4297
NewCom Project - "128th and Hickman Relocation"
TC-01 will be utilized.

and shall be located as shown on the detailed plan attached hereto. (See current Iowa Department of Transportation Utility Accommodation Policy for submittal of detailed plan requirements. See Section 115.8 (3).) <http://www.iowadot.gov/traffic/pdfs/UtilityPolicy.pdf>

WORK SITE LOCATION

The proposed work as described above is located in Section 29, 30, 31 and 32 , Twp. 79N ,
Range 25W on Highway No. 6 generally located 0.20-0.90 (miles) West
(direction) from Interstate 35/80 Interchange (city, county line, or other landmark). Work proposed is more
specifically located as being from 126.357 (Milepost #) and 196+00 (Highway Station)
to 127.117 (Milepost #) and 203+00 (Highway Station) on the North/Crossing side of highway.

Disclosure Statement: The information furnished on this form will be used by the Department of Transportation to determine approval or denial of the application. Failure to provide all pertinent information will result in denial of the application. Information furnished is public information and copies may be provided to the public upon request.

The utility company, corporation, applicant, permit holder or licensee, (hereinafter referred to as the Permit applicant) agrees with the Iowa Department of Transportation (hereafter referred to as the Department) that the following stipulations and those special requirements as listed on this document shall govern under this permit after it is approved by the Department.

A. General

1. The installation shall meet the requirements of local municipal, county, state, and federal franchise rules and regulations, regulations and directives of the Iowa State Commerce Commission; the Iowa Department of Natural Resources, all rules and regulations of the Department and any other laws or regulations applicable.
2. The Permit Holder shall be fully responsible for any future adjustments of the facilities within the established highway right-of-way caused by highway construction or maintenance operations.
3. As per Section 115.8(8) of the Utility Accommodation Policy, As-Built plans are due within 90 days after completion of construction, the utility owner shall submit to the district representative an as-built plan.
4. The work described in this permit shall be completed as proposed in compliance with the stipulations and special requirements within one year from the date Department approval is received for said request. Failure on the part of the Permit Holder to abide by the stipulations or in constructing the work described as stipulated and within the time frame stated shall render this agreement and request null and void. The Permit Holder also agrees to save the State of Iowa and the Department harmless of any damages or losses that may be sustained by any person, or persons, on account of the conditions and requirements of this agreement.
5. Non-compliance with any of the terms of the Department's policy, permit, or agreement, may be considered cause for shut-down of construction operations, revocation of the permit, or withholding of relocation reimbursement and/or withholding of future application approvals until compliance is confirmed. The cost of any work deemed necessary to be performed by the State in removal of non-complying construction will be assessed against the Permit Holder.

B. Construction and Maintenance

1. The location, construction and maintenance of the utility installation covered by this application shall be in accordance with the current Department's Utility Accommodation Policy. <http://www.iowadot.gov/traffic/pdfs/UtilityPolicy.pdf>
2. Before beginning any work in the highway right-of-way, it is the responsibility of the Permit Holder to obtain an easement from the drainage district if necessary. The Department assumes no responsibility for advising the Permit Holder of each location of a drainage district crossing. It is the Permit Holder's responsibility to locate these crossings and obtain any necessary easements or permission from the drainage district. See Code of Iowa, Chapter 468 for additional information.
3. A copy of the approved permit shall be available on the job site at all times for examination by Department personnel.
4. Operations in the construction and maintenance of this utility installation shall be carried on in such a manner as to cause minimum interference to or distraction of traffic on said highway.
5. Traffic protection shall minimally be in accordance with Part VI of the current Manual on Uniform Traffic Control Devices for Streets and Highways. The applicant shall be responsible for correctly using traffic control devices including signs, warning lights, and channelizing devices as needed while work is in progress or the clear zone is impacted. Flagging operations are the responsibility of the applicant. The Department's TC XXX Series Standards are the preferred traffic control specification plans. http://www.iowadot.gov/design/stdplne_tc.htm
6. The applicant shall seed and mulch all disturbed areas within the highway right-of-way and shall be responsible for the vegetative cover until it becomes well established. Any surfaced areas such as driveways or shoulders and sodded waterways and plantings which are disturbed shall be restored to their original condition. Any damage to any other underground facilities during installation shall be repaired at the permit holder's expense.
7. All personnel in the highway right-of-way shall wear ANSI 107 Class 2 apparel at all times when exposed to traffic or construction equipment.
8. As per Policy Section 115.4(9) parking or storage in the clear zone is prohibited. When not in actual use, vehicles, equipment and materials shall not be parked or stored within the clear zone or median.
9. Unless specifically noted in Special Requirements section, all work performed within the right-of-way shall be restricted to 30 minutes after sunrise to 30 minutes before sunset.
10. Pedestals shall be placed within 12 inches of the right-of-way line.
11. All above and below ground appurtenances (pedestals, hydrants, drains, accesses, etc.) shall be marked with high visibility posts and signs. The minimum height requirement for the signs shall be 5 foot. Urban Roadway Sections may be exempted with department approval.

C. Liability

1. To the extent allowable by law, the Permit Holder agrees to indemnify, defend, and hold the Department harmless from any action or liability arising out of the design, construction, maintenance, placement of traffic control devices, inspection, or use of the Permit Holder's facilities. This agreement to indemnify, defend, and hold harmless applies to all aspects of the Department's application review and approval process, plan and construction reviews, and funding participation.
2. The Permit Holder shall indemnify and save harmless the State of Iowa, 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.
3. The State of Iowa and the Department assume no responsibility for damages to the Permit Holder's property occasioned by any construction or maintenance operations on said highway if the facilities are not located in accordance with this permit.
4. The State of Iowa, its agencies or employees, will be liable for expense incurred by the Permit Holder in its use and occupancy of the highway right-of-way only when negligence of the State, its agencies or employees, is the sole proximate cause of such expense. Whether in contract, tort or otherwise, the liability of the State, its agencies and employees, is limited to the reasonable, direct expense to repair damaged utilities, and in no event will such liability extend to loss of profits or business, indirect, special, consequential or incidental damages.

D. Notification

1. The Permit Holder is responsible for contacting **Iowa One-Call (1-800-292-8989)** and request the location of all underground utilities forty-eight (48) hours before excavation. Before beginning work in the highway right-of-way, the Permit Holder shall also contact any other known utility located in the area of the proposed work.
2. The Permit Holder agrees to give the Department forty-eight (48) hour notice of its intention to start construction or to perform routine maintenance on the highway right-of-way. Said notice shall be made to the local DOT contact person whose name is shown on Page 3.
3. **511 Notification**-In accordance with Iowa Code section 321.348, cities and utilities **may not obstruct or close** primary highways or primary highway extensions (State highways within city limits) **without prior consent of the Iowa DOT**, except in emergency situations. Before setting up a lane closure or a vertical/horizontal restriction of any kind on a primary highway, call your local Iowa DOT Maintenance garage and call the Traffic Management Center per attached documents. Except in emergency situations, a 10 day advance notice is required.

<http://www.iowadot.gov/traffic/utility/pdfs/511UtilityNotification.pdf>

E. Buy America

Buy America applies to relocations of utility facilities that must move due to highway projects under certain specific conditions that include reimbursable locations and relocations due to interstate projects. Please contact the Department's District Engineering Operation Technician (EOT) for more information on Buy America requirements or visit the following link: <http://www.iowadot.gov/traffic/utility/utility.html>

Permit Number: _____

FOR DEPARTMENT USE ONLY

Special Requirements - in addition to the stipulations above, the following special requirements shall apply to this permit:

Applicant Signature and Agreement

The undersigned have read the stipulations of this permit agreement as stated, as well as attachments which may be included, and by signing this application agree to abide by all stipulations and to complete the work as proposed in compliance with the stipulations and attachments within one year from the date Department approval is granted for said request. Failure on the part of the applicant to abide by the stipulations or to construct the work desired as stipulated and within the time frame stated shall render this agreement and request null and void. The undersigned also agrees to save harmless the State of Iowa and the Iowa Department of Transportation from any damage or losses that may be sustained by any person or persons on account of the conditions and requirements of this agreement.

Name of Agent (Print or Type) Derrick Hills	Agent/Owner (Signature) <i>Derrick Hills</i>	Title Project Manager
Name of Owner (Print or Type) Zayo Group LLC	Date 08/04/2021	
e-Mail Address dhills@Newcomtech.com		

CITY ACTION (IF PROPOSED WORK IS WITHIN AN INCORPORATED CITY, CITY ACTION IS REQUIRED)

"The undersigned city joins in the grants embodied in the above permit executed by the Iowa Department of Transportation on condition that all of the covenants and undertakings therein running to the Iowa Department of Transportation shall inure to the benefit of the undersigned city and recommends action on said permit application as noted below by the delegated city official".

Recommend Approval Do Not Recommend Approval None Required

Handwritten Signature <i>[Signature]</i>	Title City Engineer	Date 10/13/21
Type or Print Name John B. Larson	Authorized Official for the City of Urbandale	
e-Mail Address jlarson@urbandale.org		

COUNTY ACTION (IF PROPOSED WORK CROSSES COUNTY RIGHT-OF-WAY, COUNTY ACTION IS REQUIRED)

"The undersigned county joins in the grants embodied in the above permit executed by the Iowa Department of Transportation on condition that all of the covenants and undertakings therein running to the Iowa Department of Transportation shall inure to the benefit of the undersigned county and recommends action on said permit application as noted below by the delegated county official".

Recommend Approval Do Not Recommend Approval None Required

Handwritten Signature	Title	Date
Type or Print Name	Authorized Official for the County of	
e-Mail Address		

FEDERAL HIGHWAY ADMINISTRATION ACTION (WHEN REQUIRED)

Recommend Approval Do Not Recommend Approval None Required

Authorized FHWA Representative Signature	Date
--	------

DEPARTMENT OF TRANSPORTATION FINAL ACTION

Application Approved Application Denied Permit Number: 770-2021-158

Authorized Highway District Representative Jeffrey Cunningham	Signature <i>Jeffrey Cunningham</i>	Date 10/15/21
e-Mail Address jeffrey.cunningham@iowadot.us		

Notice of intention to commence activities on the highway rights-of-way shall be submitted by the applicant a minimum of 48 hours prior to actually commencing the activities as herein granted by this approved application. Notice is to be given to the following Iowa Department of Transportation representative. Except in emergencies a 10 day advance notice is required for lane restrictions of any kind:

Local DOT Contact Person (Type or Print Name) James Hanson	Phone Number 515-834-2368		
Street Address 33654 Overton Circle	City/Town Adel	State IA	ZIP Code 50003
e-Mail Address james.hanson@iowadot.us			

Permit Number: _____



District One
Des Moines Area Engineer's Office
2300 SE 17th Street Grimes, IA 50111

October 15, 2021

Permit 77U-2021-158

Unite Private Networks LLC
Attn: Marcus Moulds
1415 28th Street Suite 240
West Des Moines, IA 50266

Enclosed is a copy of approved permit number 77U-2021-158, Application and Agreement for use of Highway Right of Way for Bore in 2-1.25" SDR 13.5 HDPE conduit and a single 96 count fiber optic cable at stations 190+00 to 203+00 on US 6.

Please note the stipulations and changes that we may have made since the permit was submitted.

A copy of this permit must be at the work site at all times while work is in progress.

If you have any questions, please feel free to call.

Sincerely,

Jeffrey Cunningham
Access\Utility Specialist

Attachments

JC/jc.

Cc: Matthew Buttz, IDOT 800 Lincoln Way Ames IA, 50010
James Hanson, IDOT 33654 Overton Circle Adel IA 50003
John Larson, City of Urbandale 3600 86th St Urbandale IA 50322
File

Special Requirements:

All Material or equipment shall be kept 10 feet off the Right of Way during non-working hours.

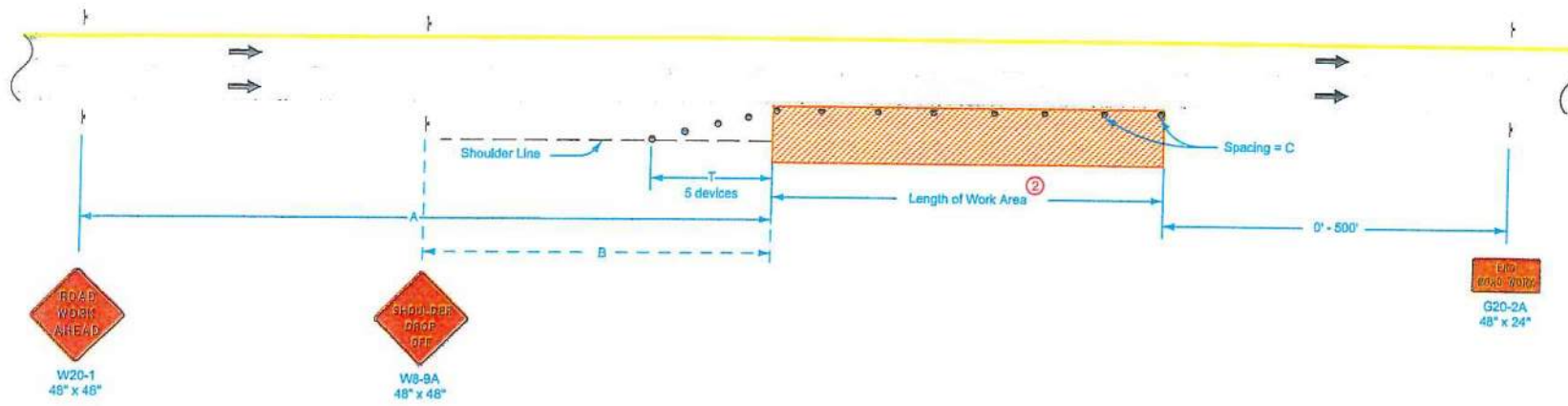
No hole shall remain open within the Right of Way during non-working hours.

Right of Way shall be restored immediately upon completion of project.

No parking on shoulders.

No digging into side slopes of any road or highway shall be allowed.

Proper traffic control shall be used at all times.



ROAD WORK AHEAD
W20-1
48" x 48"

SHOULDER DROP OFF
W8-9A
48" x 48"

EDGE OF WORK ZONE
G20-2A
48" x 24"

LEGEND

- Traffic Sign
- 42" Channelizer
- Work Area
- Direction of Traffic

SPEED LIMIT (mph)	A	B	C ^②	T
40 or less	500'	250'	40'	100'
45 - 50	700'	350'	80' ^①	200'
55 - 60	1500'	500'	100' ^①	200'
65 - 70	1500'	500'	100' ^①	230'

When a pavement edge drop-off exists, install a SHOULDER DROP-OFF sign.

No pavement edge drop-offs greater than pavement depth will be allowed during non-working hours.

Shoulder edge drop-offs shall be mitigated according to Article 1107.08.L2 of the Standard Specifications.

For work lasting less than one hour, refer to TC-1.

① When the length of a pavement edge drop-off is 1000 feet or less, the temporary fillet requirement of Article 1107.08 of the Standard Specifications does not apply. Reduce channelizer spacing to 40 feet.

② For work areas less than 200 feet long, use channelizers spaced at 20 foot centers or use a vehicle with an amber revolving light or amber strobe light.

Possible Contract Item:
Traffic Control

IOWA DOT

STANDARD ROAD PLAN

REVISION B 04-21-15

TC-402

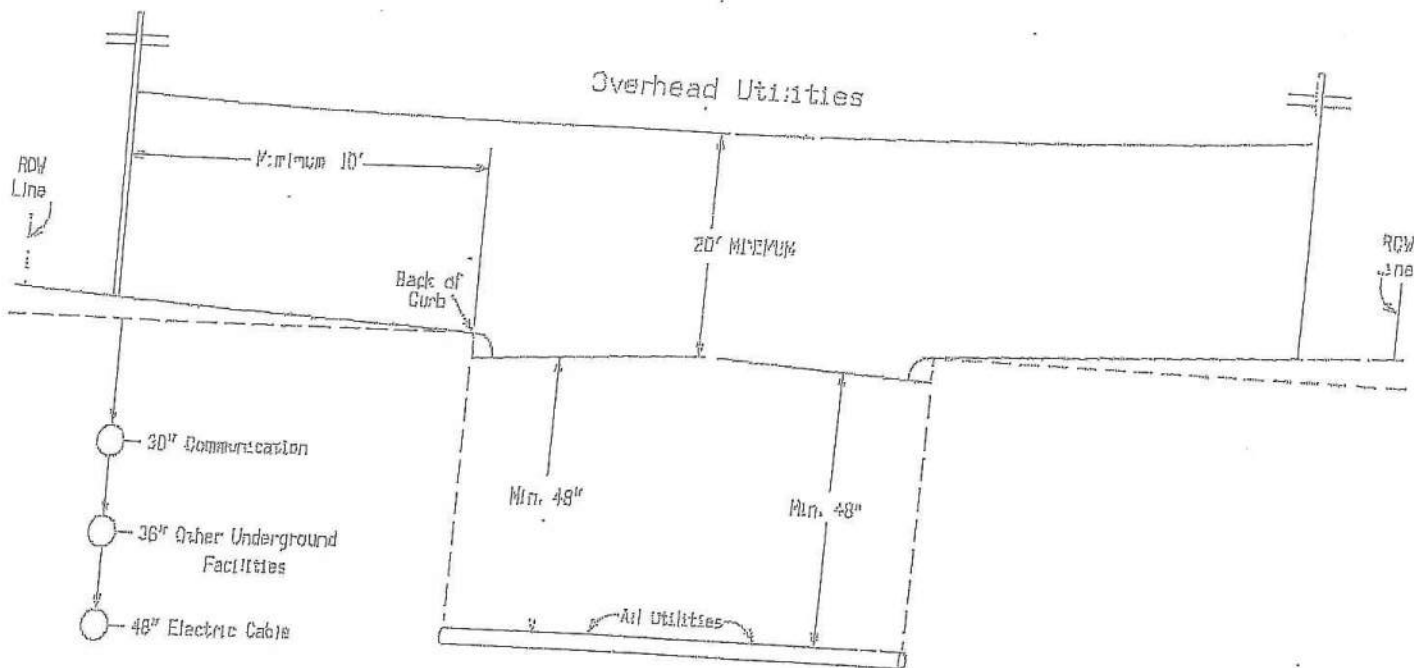
SHEET 1 of 1

REVISIONS: Modified general notes, changed title and replaced the DOT logo in the title block with the new version.

Brian Smith
APPROVED BY DESIGN METHODS ENGINEER

**WORK WITHIN 15 FT
OF TRAVELED WAY**

Minimum Policy Requirements
 Urban Section
 Non - Freeway Highway



E-9

Notes:
 Utilities shall be located between back of curb and the highway row.
 Utilities should be located as near to the highway row line as practical.
 See Utility Policy, Section 15.13 for further details.

01/1/2015

Acceptable Clear Zone Distances (feet)
(Based on AASHTO Roadside Design Guide, 4th edition)

design speed	design ADT	FORESLOPES			BACKSLOPES		
		6:1 or flatter	Steeper than 6:1, up to and including 4:1	Steeper than 4:1	Steeper than 4:1*	4:1 or flatter, up to 6:1	6:1 or flatter
40 mph or less	ADT < 750	7	7	**	7	7	7
	750 ≤ ADT < 1500	10	12	**	10	10	10
	1500 ≤ ADT < 6000	12	14	**	12	12	12
	ADT ≥ 6000	14	16	**	14	14	14
45–50 mph	ADT < 750	10	12	**	8	8	10
	750 ≤ ADT < 1500	14	16	**	10	12	14
	1500 ≤ ADT < 6000	16	20	**	12	14	16
	ADT ≥ 6000	20	24	**	14	18	20
55 mph	ADT < 750	12	14	**	8	10	10
	750 ≤ ADT < 1500	16	20	**	10	14	16
	1500 ≤ ADT < 6000	20	24	**	14	16	20
	ADT ≥ 6000	22	26	**	16	20	22
60 mph	ADT < 750	16	20	**	10	12	14
	750 ≤ ADT < 1500	20	26	**	12	16	20
	1500 ≤ ADT < 6000	26	30	**	14	18	24
	ADT ≥ 6000	30	30	**	20	24	26
65–70 mph	ADT < 750	18	20	**	10	14	14
	750 ≤ ADT < 1500	24	28	**	12	18	20
	1500 ≤ ADT < 6000	28	30	**	16	22	26
	ADT ≥ 6000	30	30	**	22	26	28

* Backslopes as steep as 2.5:1 can be considered as part of the clear zone, as long as they are relatively smooth and do not contain any fixed objects. Refer to Section 8A-4 of the Design Manual for information regarding backslopes steeper than 2.5:1.

** Since a vehicle traveling on a slope steeper than 4:1 is likely to be diverted to the bottom of the slope, the width of any slope steeper than 4:1 cannot be counted in the clear zone determination. Refer to Section 8A-2 of the Design Manual for information on providing clear recovery areas at the base of steep slopes.

128TH AND HICKMAN RELOCATION



1511 BALTIMORE AVENUE
2ND FLOOR
KANSAS CITY, MO 64108
(866) 813-3608

URBANDALE/CLIVE
POLK COUNTY
128TH AND HICKMAN

NO.	DATE	REVISIONS	BY	CHK	APP'D
A	07-29-2021	ISSUED FOR REVIEW	SMK	SMK	SMK

ORIENTATION:

SCALE:

DESIGNED BY:

DRAWN BY:

**128TH AND HICKMAN
COVER PAGE**

PRINTED	SHEET NUMBER	REV
07-29-2021	CP-1	A

GENERAL NOTES

1. WITHIN THESE PLANS AND SPECIFICATIONS, "OWNER" IMPLIES UNITE PRIVATE NETWORKS, UNLESS OTHERWISE NOTED. WITHIN THESE PLANS AND SPECIFICATIONS, "ENGINEER" IMPLIES NEWCOM TECHNOLOGIES, UNLESS OTHERWISE NOTED.
2. THE TERMS "CONTRACTOR" AND "G.C." REFER TO THE OWNER'S GENERAL CONTRACTOR AND THE GENERAL CONTRACTOR'S SUB-CONTRACTORS. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE DIVISION OF WORK AMONG SUB-CONTRACTORS.
3. THE WORK IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR UNLESS NOTED OTHERWISE.
4. THE LOCATIONS OF UNDERGROUND STRUCTURES OR FACILITIES SHOWN ON THESE PLANS ARE BASED ON AVAILABLE RECORDS AT THE TIME OF PREPARATION AND ARE NOT GUARANTEED TO BE COMPLETE OR CORRECT. THE CONTRACT MUST COMPLETE LOCATE REQUESTS 72 HOURS PRIOR TO BEGINNING OF CONSTRUCTION.
811, OR (800) 292-8989, OR HTTP://WWW.IOWAONECALL.COM
5. THE PROJECT SITE SHALL BE RESTORED TO ITS ORIGINAL CONDITION BY THE CONTRACTOR TO THE APPROVAL OF THE OWNER'S REPRESENTATIVE AND LOCAL PUBLIC JURISDICTION. RESTORATION OF VEGETATION TO PRE-EXISTING CONDITIONS AND SEEDING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. PC CONCRETE AND HOT MIX ASPHALT SHALL COMPLY WITH SUDAS OR PUBLIC JURISDICTION STANDARDS, WHICH EVER IS STRICTER.
6. THE WORK DELINEATED IN THESE DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS SHALL CONFORM TO CODES, STANDARDS AND REGULATIONS THAT HAVE JURISDICTION IN THE STATE(S) OF IOWA, THE COUNTY(S) OF POLK, AND THE CITY(S) OF URBANDALE AND CLIVE.
7. REQUIREMENTS AND REGULATIONS PERTAINING TO R.F. SAFETY CODES AND PRACTICES MUST BE INCORPORATED IN THE WORK EVEN THOUGH THEY MAY NOT BE LISTED INDIVIDUALLY AND SEPARATELY IN EITHER THE DRAWINGS OR SPECIFICATIONS.
8. COMPARE FIELD CONDITIONS WITH ENGINEERING DRAWINGS. ANY DISCREPANCIES SHALL BE DIRECTED TO THE ENGINEER FOR CLARIFICATION PRIOR TO FABRICATION AND/OR CONSTRUCTION. SUBMIT NECESSARY SHOP DRAWINGS PRIOR TO FABRICATION FOR APPROVAL BY THE ENGINEER. NO INFORMATION OR DETAILS ON THESE SHEETS MAY BE USED WITHOUT THE PERMISSION OF THE OWNER OR THE ENGINEER
9. SAFETY MEASURES: THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF THE PERSONS AND PROPERTY AND FOR INDEPENDENT ENGINEERING REVIEW OF THESE CONDITIONS. THE ENGINEER'S JOB SITE REVIEW IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTORS SAFETY MEASURES.
10. ANY AND ALL SPLICE LOCATIONS MUST CONTAIN AN 8' GROUND ROD.
11. ALL NEW UNDERGROUND INSTALLATION MUST CONTAIN A #12 LOCATE WIRE
12. PROVIDE TRAFFIC CONTROL IN ACCORDANCE WITH THE MUTCD.

PERMIT TRACKING

TRACKING #	ENTITY	TYPE	PERMIT #	STATUS
UPN- 4295	CITY OF URBANDALE	RIGHT OF WAY PERMIT		
UPN- 4296	CITY OF CLIVE	RIGHT OF WAY PERMIT		
UPN- 4297	IOWA DOT DISTRICT 1	RIGHT OF WAY PERMIT		

I hereby certify that this engineering document was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

(Signature) _____ (Date) _____

Printed or typed name _____

License number _____

My license renewal date is December 31, _____

Pages or sheets covered by this seal: _____



**CALL BEFORE YOU DIG
(811)
72 HOURS NOTICE REQUIRED**

The utilities displayed on this drawing are in approximate locations. Unite Private Networks disclaims any responsibility for the accuracy of this information. All utilities must be verified with the proper authorities prior to any excavation.



1511 BALTIMORE AVENUE
2ND FLOOR
KANSAS CITY, MO 64108
(866) 813-3608

**URBANDALE/CLIVE
POLK COUNTY
128TH AND HICKMAN**

PROJECT INFORMATION

SITE NAME: 128TH AND HICKMAN RELOCATION
SITE ADDRESS: VARIES

COUNTY: POLK
LATITUDE: VARIES
LONGITUDE: VARIES

- PROJECT DESCRIPTION:**
1. INSTALLATION OF TWO 1-1/4" SDR 13.5 HDPE CONDUIT
 2. INSTALLATION SINGLE 96 COUNT FIBER OPTIC CABLE

CONTACTS

CITY OF URBANDALE: 3600 86TH STREET
URBANDALE, IA 50322
CONTACT: DAVID MCKAY, P.E.
OFFICE: (515) 278-3950
EMAIL: engpw@urbandale.org

CITY OF CLIVE: 2123 NW 111TH STREET
CLIVE, IA 50325
CONTACT: JEFF MAY
OFFICE: (515) 223-6231
EMAIL: Jmay@cityofclive.com

IOWA DOT DISTRICT 1: 2300 SE 17TH STREET
GRIMES, IA 50111
CONTACT: JEFF CUNNINGHAM
OFFICE: (515) 986-5461
CELL: (800) 251-2702
EMAIL: jeffrey.cunningham@iowadot.us

UNITE PRIVATE NETWORKS: 1415 28TH STREET, SUITE 240
WEST DES MOINES, IA 50266
CONTACT: MICHAEL DORR
CELL: (515) 468-7884
EMAIL: michael.dorr@upnfiber.com

NEWCOM TECHNOLOGIES: 6000 GRAND AVENUE
DES MOINES, IOWA 50312
CONTACT: SEAN KELLY
OFFICE: (515) 633-1510
EMAIL: skelly@newcomtech.com

MATERIAL TAKE OFF

ITEM	AMOUNT
24 COUNT FIBER OPTIC CABLE	0 L.F.
IN EXISTING CONDUIT - OTHER	0 L.F.
IN EXISTING CONDUIT - UPN	0 L.F.
IN NEW CONDUIT	0 L.F.
ON AERIAL POLES	0 L.F.
96 COUNT FIBER OPTIC CABLE	6999 L.F.
IN EXISTING CONDUIT - OTHER	0 L.F.
IN EXISTING CONDUIT - UPN	0 L.F.
IN NEW CONDUIT	6999 L.F.
ON AERIAL POLES	0 L.F.
1-1/4" SCH 13.5 HDPE CONDUIT	11,848 L.F.
36" X 24" X 36" HANDHOLE	5
3' X 3' X 3' MANHOLE	0
TYCO 450B SPLICE CASE AND 8' GROUND ROD	7
PANEL	0
SPLICING	AMOUNT
LOCATIONS	xx
BURNS	xx
ROAD/SIDE WALK REPAIR	AMOUNT
SIDEWALK - CONCRETE	0 SQ. FT
STREET - CONCRETE	0 SQ. FT
STREET - ASPHALT	0 SQ. FT
OTHER	0 SQ. FT
OTHER	AMOUNT
CORE DRILL EXISTING UPN MANHOLE	0

RUNNING LINE

SUPPORT STRUCTURE	AMOUNT
1-1/4" HDPE CONDUIT - BORE/OPEN CUT - 2 CONDUITS	0 L.F.
1-1/4" HDPE CONDUIT - BORE/OPEN CUT - 1 CONDUIT	5924 L.F.
EXISTING CONDUIT - UPN	0 L.F.
EXISTING CONDUIT - OTHER	0 L.F.
AERIAL PLANT	0 L.F.

SHEET INDEX

SHEET	SHEET DESCRIPTION
OVERVIEW	128TH AND HICKMAN RELOCATION - OVERVIEW - 5 PAGES
HRL 01-08	128TH AND HICKMAN RELOCATION - FIBER ROUTE - 8 PAGES
XXX	XXX
XXX	XXX
XXX	XXX
XXX	XXX

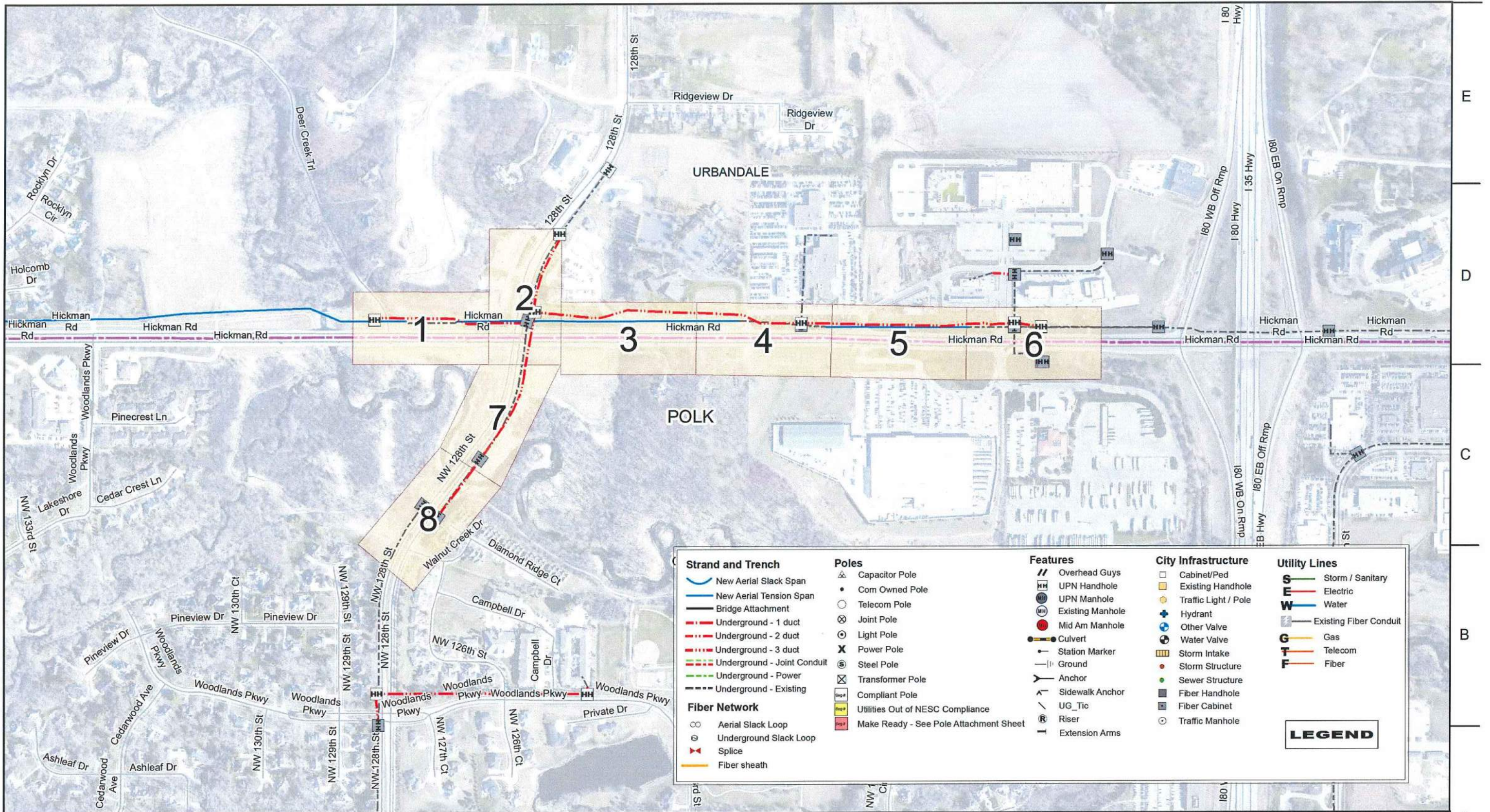
128TH AND HICKMAN GENERAL NOTES

PRINTED	SHEET NUMBER	REV
07-29-2021	GN-1	A

NO.	DATE	REVISIONS	BY	CHK	APP'D
A	07-28-2021	ISSUED FOR REVIEW	SMK	SMK	SMK

SCALE: _____ DESIGNED BY: _____ DRAWN BY: _____

SCALE: _____



NewCom
Technologies
NewCom gets the extra mile!
6000 GRAND AVENUE
DES MOINES, IA 50312
(515) 274-9611



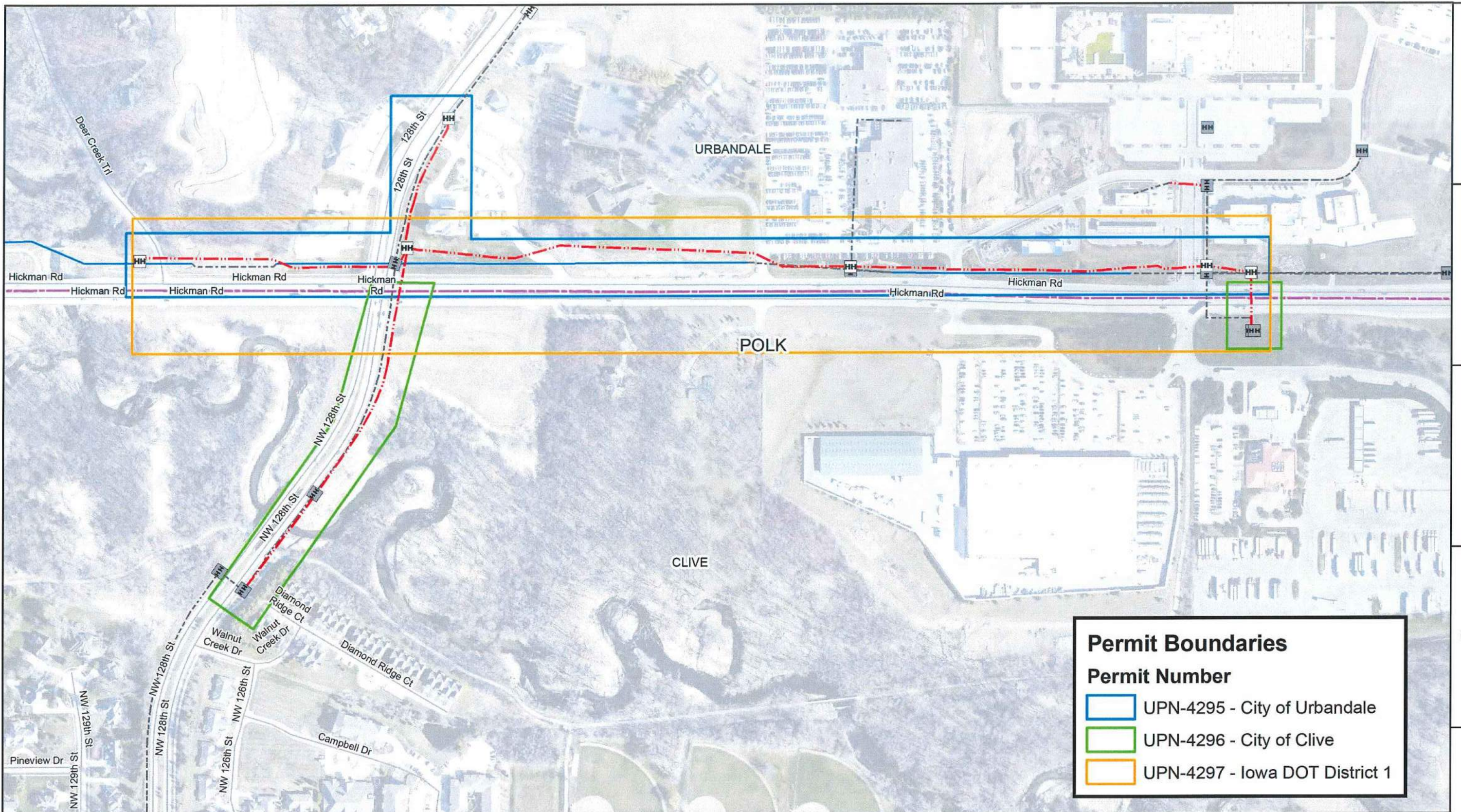
1511 BALTIMORE AVENUE
2ND FLOOR
KANSAS CITY, MO 64108
(866) 813-3608

Urbandale/Clive
Polk County
128th and Hickman
Relocation

NO.	DATE	REVISIONS	BY	CHK	APPD
A	07-29-2021	ISSUED FOR REVIEW	SMK	SMK	SMK
SCALE: 1" = 500'		DESIGNED BY: S. KELLY	DRAWN BY: V. MEZENTSEVA		



128TH AND HICKMAN OVERVIEW		
PRINTED	SHEET NUMBER	REV
7/29/2021	OV-1	A



Permit Boundaries

Permit Number

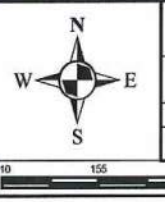
- UPN-4295 - City of Urbandale
- UPN-4296 - City of Clive
- UPN-4297 - Iowa DOT District 1

NewCom
Technologies
NewCom goes the extra mile!
6000 GRAND AVENUE
DES MOINES, IA 50312
(515) 274-9611

Unite
PRIVATE NETWORKS
1511 BALTIMORE AVENUE
2ND FLOOR
KANSAS CITY, MO 64108
(866) 813-3608

Urbandale/Clive
Polk County
128th and Hickman
Relocation

NO.	DATE	REVISIONS	BY	CHK	APP'D
A	07-28-2021	ISSUED FOR REVIEW	SMK	SMK	SMK
SCALE: 1" = 300'		DESIGNED BY: S. KELLY	DRAWN BY: V. MEZENTSEVA		



128TH AND HICKMAN PERMIT BOUNDARY		
PRINTED	SHEET NUMBER	REV
7/29/2021	PB-1	A

SURFACE QUALITY DATA (CL/ASCE 38-02)

QUALITY LEVEL -- A - EXPOSE SELECTED SUBSURFACE UTILITIES TO OBTAIN THREE-DIMENSIONAL INFORMATION. USE MINIMALLY INTRUSIVE EXCAVATION METHODS, SUCH AS VACUUM EXCAVATION. DEPICT RESULTING INFORMATION. THIS IS QUALITY LEVEL A (QL-A) INFORMATION.

QUALITY LEVEL -- B - USE APPROPRIATE SURFACE GEOPHYSICAL METHODS (I.E., PIPE AND CABLE LOCATORS, TERRAIN CONDUCTIVITY METHODS, RESISTIVITY MEASUREMENTS, METAL DETECTORS, GROUND PENETRATING RADAR, ETC.) TO DESIGNATE EXISTING SUBSURFACE UTILITIES OR TO TRACE A PARTICULAR UTILITY SYSTEM. THIS PROVIDES TWO-DIMENSIONAL HORIZONTAL INFORMATION. PLACE PAINT MARKS ON THE GROUND. PLACE IDENTIFICATION FLAGS OR STAKES ON THE PAINT MARKS OR CODING ON THE PAVEMENT AT 50-FOOT INTERVALS AND SURVEY TO PROJECT CONTROL. DEPICT RESULTING INFORMATION VIA COMPUTER-AIDED DESIGN AND DRAFTING (CADD) OR MANUAL PLOTTING ONTO THE CLIENT'S PLAN SHEETS, GEOGRAPHIC INFORMATION SYSTEM (GIS) DATABASES, OR OTHER APPROPRIATE DOCUMENTS. THIS IS QUALITY LEVEL B (QL-B) INFORMATION. IF REQUESTED BY THE PROJECT OWNER, ALSO PERFORM SURVEYING AND DEPICT INFORMATION ABOUT AERIAL UTILITIES

QUALITY LEVEL -- C - MAKE FIELD OBSERVATIONS TO IDENTIFY VISIBLE ABOVE-GROUND UTILITY FEATURES. SURVEY AND PLOT RESULTING INFORMATION. THIS IS QUALITY LEVEL C (QL-C) INFORMATION.

QUALITY LEVEL -- D - OBTAIN EXISTING UTILITY INFORMATION FROM OTHER SOURCES. REVIEW ALL INFORMATION THAT CAN BE OBTAINED AND PLOT IT ON A UTILITY COMPOSITE DRAWING OR EQUIVALENT. THIS IS QUALITY LEVEL D (QL-D) INFORMATION.

All pole line clearances are engineered in compliance with customer/pole owner and NESC Rule 232 clearance limits

National Electrical Safety Code Recital

Minimum Clearance of Communication Conductors (Local rules may differ from NESC)		
Rule 232	Description	Minimum
-1	Track rails of railroads, except overhead electrified	23.5'
-2	Roads, streets, alleys, non-residential driveways, parking lots and other areas subject to truck traffic	15.5'
-3	Residential driveways	15.5'
-4	Other land traversed by vehicles	15.5'
-5	Spaces or ways accessible to pedestrian or restricted 8' vehicle clearance	9.5'
-6	Water areas not suitable for sail boating	14'
-7	Water areas suitable for sail boating	
	- less than 20 acres	17.5'
	- 20 to 200 acres	25.5'
	- 200 to 2000 acres	31.5'
	- Over 2000 acres	37.5'

Environmental conditions:

The condition below which produces the largest final sag will be used
120° F, no wind displacement and final sag
 or
32° F, no wind displacement, final sag and ice loading for specific zone

EXISTING SUBSURFACE UTILITY DATA (CI/ ASCE 38-02)

UTILITY	UTILITY NAME	QUALITY LEVEL A	QUALITY LEVEL B	QUALITY LEVEL C	QUALITY LEVEL D	UTILITY	UTILITY NAME	QUALITY LEVEL A	QUALITY LEVEL B	QUALITY LEVEL C	QUALITY LEVEL D
CABLE						CABLE					
ELECTRIC	MIDAMERICAN ENERGY			X	X	ELECTRIC	MIDAMERICAN ENERGY			X	X
GAS	MIDAMERICAN ENERGY			X	X	GAS	MIDAMERICAN ENERGY			X	X
SANITARY	CITY OF URBANDALE			X	X	SANITARY	CITY OF CLIVE			X	X
STORM	CITY OF URBANDALE			X	X	STORM	CITY OF CLIVE			X	X
WATER	CITY OF URBANDALE			X	X	WATER	CITY OF CLIVE			X	X
COMMUNICATIONS	CITY OF URBANDALE			X	X	COMMUNICATIONS	CITY OF CLIVE			X	X
COMMUNICATIONS	ZAYO FIBER GROUP			X	X	COMMUNICATIONS	MCI/VERIZON BUSINESS			X	X
COMMUNICATIONS	CENTURY LINK			X	X	COMMUNICATIONS	ICN			X	X
COMMUNICATIONS	CONSOLIDATED COMM			X	X	COMMUNICATIONS					
COMMUNICATIONS	MEDIACOM			X	X	COMMUNICATIONS					

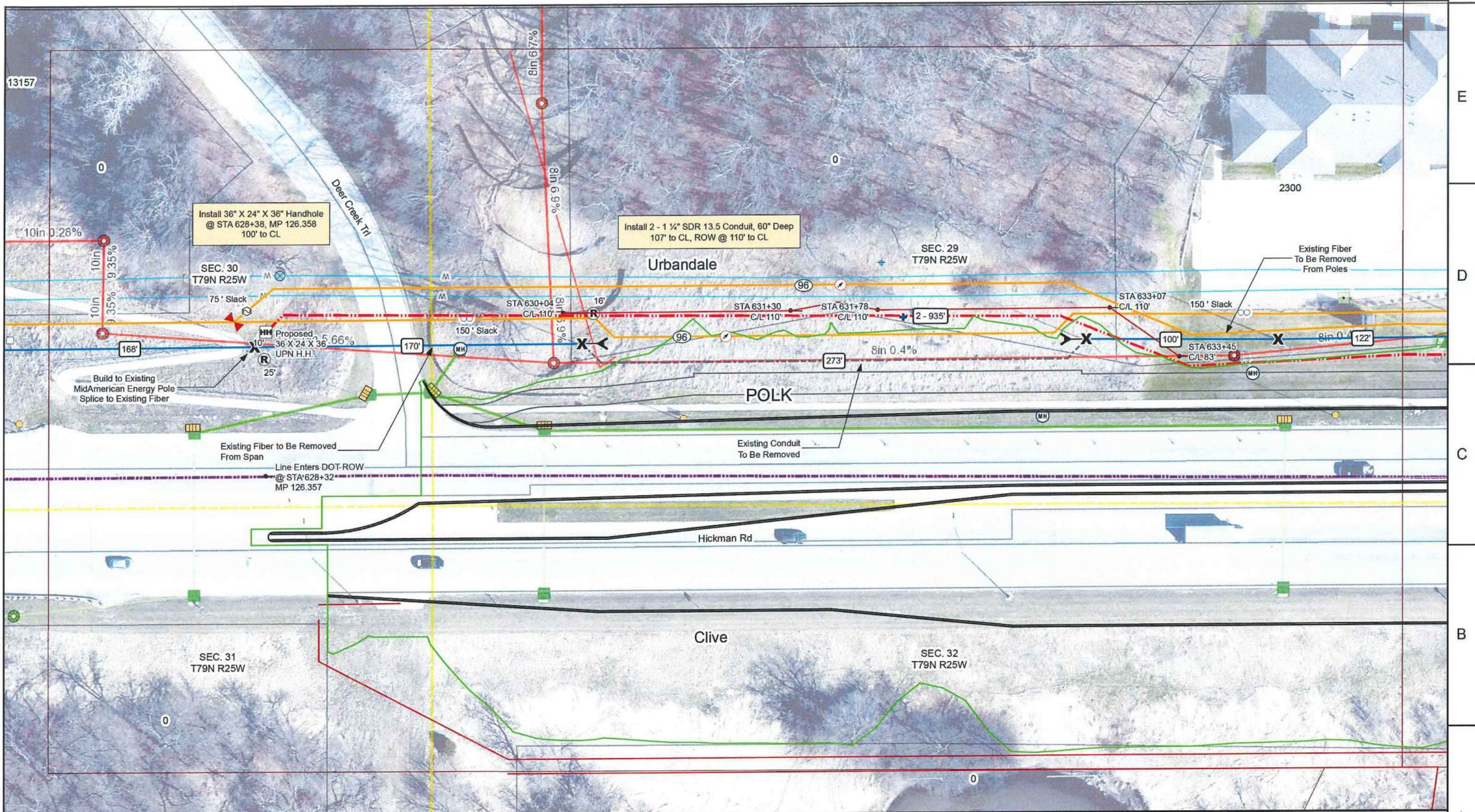


1511 BALTIMORE AVENUE
2ND FLOOR
KANSAS CITY, MO 64108
(866) 813-3608

**URBANDALE/CLIVE
POLK COUNTY
128TH AND HICKMAN**

NO.	DATE	REVISIONS	BY	CHK	APP'D
A	07-29-2021	ISSUED FOR REVIEW	SMK	SMK	SMK
SCALE:		DESIGNED BY:	DRAWN BY:		SCALE:

128TH AND HICKMAN		
SURFACE QUALITY DATA		
PRINTED	SHEET NUMBER	REV
07/29/2021	SQ-1	A



NewCom
Technologies
NewCom goes the extra mile!
6000 GRAND AVENUE
DES MOINES, IA 50312
(515) 274-9611



1511 BALTIMORE AVENUE
2ND FLOOR
KANSAS CITY, MO 64108
(866) 813-3608



Urbandale/Clive
Polk County
128th and Hickman
Relocation

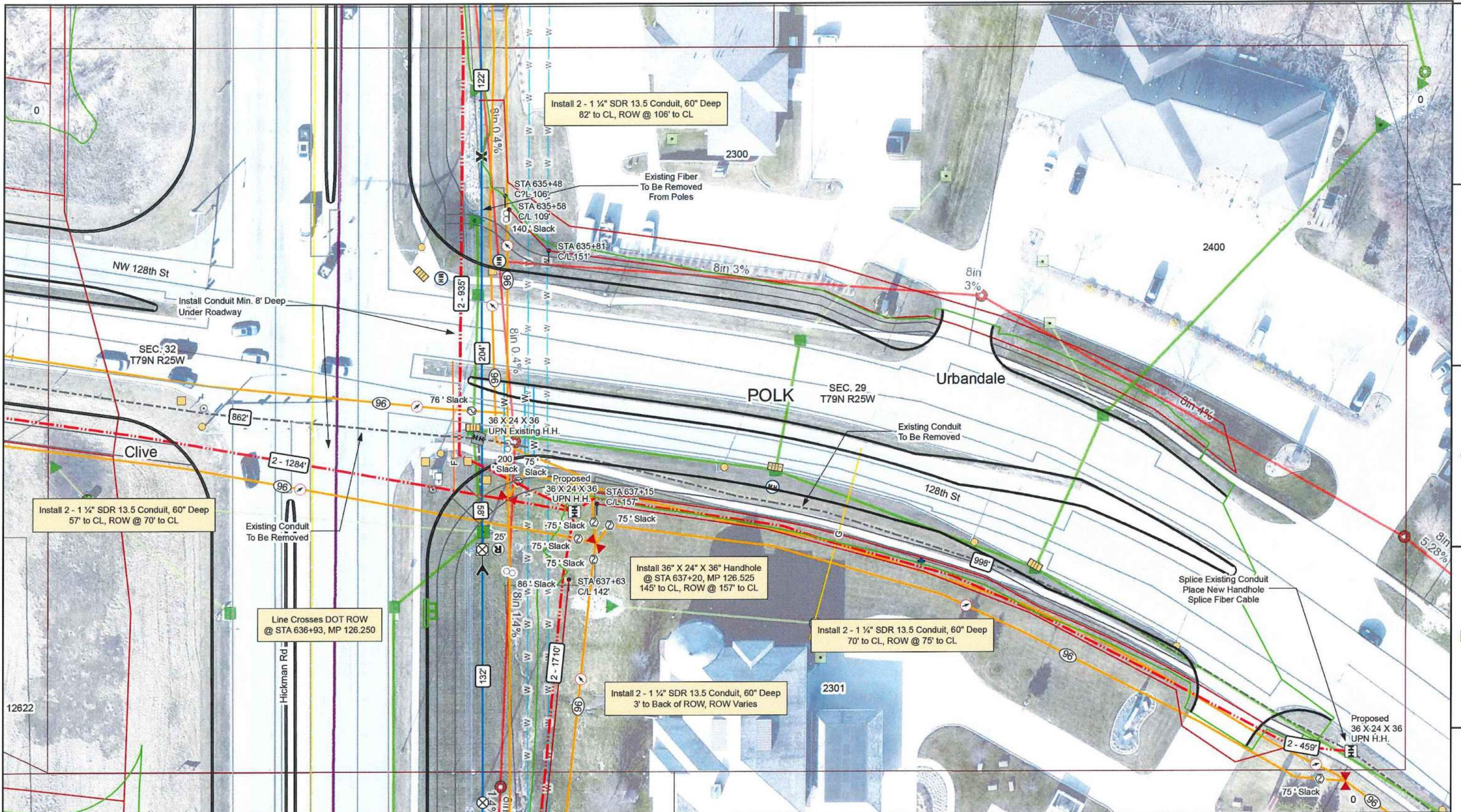
NO.	DATE	REVISIONS	BY	CHK	APP'D
A	07-29-2021	ISSUED FOR REVIEW	SMK	SMK	SMK
DESIGNED BY: S. KELLY			DRAWN BY: V. MEZENTSEVA		



128TH AND HICKMAN
CONSTRUCTION PLANS

PRINTED 7/29/2021	SHEET NUMBER Sheet 1 of 8	REV A
----------------------	------------------------------	----------





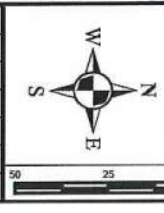
NewCom
Technologies
NewCom goes the extra mile!
6000 GRAND AVENUE
DES MOINES, IA 50312
(515) 274-9611

Unite
PRIVATE NETWORKS
1511 BALTIMORE AVENUE
2ND FLOOR
KANSAS CITY, MO 64108
(866) 813-3608

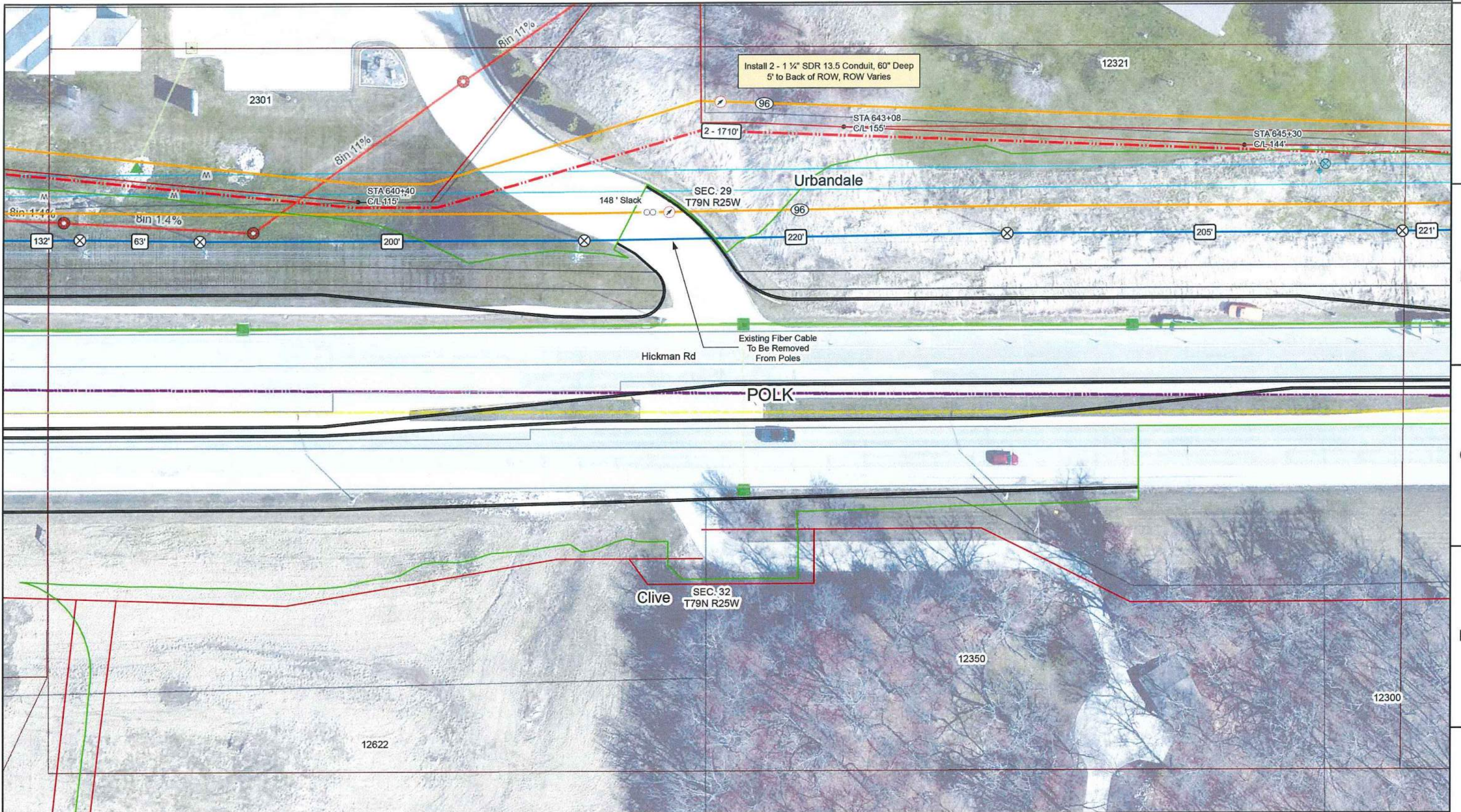


**Urbandale/Clive
Polk County
128th and Hickman
Relocation**

NO.	DATE	REVISIONS	BY	CHK	APPD
A	07-29-2021	ISSUED FOR REVIEW	SMK	SMK	SMK
SCALE: 1" = 50'		DESIGNED BY: S. KELLY	DRAWN BY: V. MEZENTSEVA		

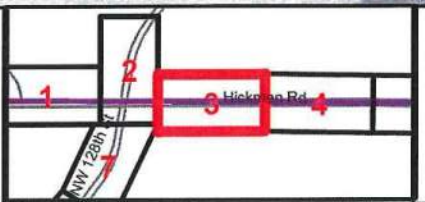


128TH AND HICKMAN CONSTRUCTION PLANS		
PRINTED 7/29/2021	SHEET NUMBER Sheet 2 of 8	REV A



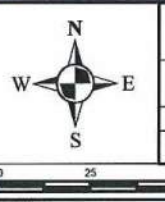
NewCom
Technologies
NewCom gets the extra mile!
6000 GRAND AVENUE
DES MOINES, IA 50312
(515) 274-9611

Unite
PRIVATE NETWORKS
1511 BALTIMORE AVENUE
2ND FLOOR
KANSAS CITY, MO 64108
(866) 813-3608



Urbandale/Clive
Polk County
128th and Hickman
Relocation

NO.	DATE	REVISIONS	BY	CHK	APP'D
A	07-29-2021	ISSUED FOR REVIEW	SMK	SMK	SMK
DESIGNED BY: S. KELLY			DRAWN BY: V. MEZENTSEVA		



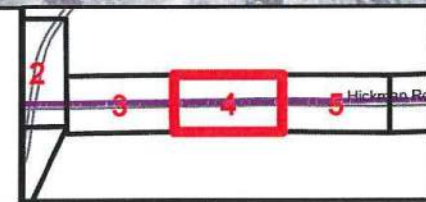
**128TH AND HICKMAN
CONSTRUCTION PLANS**

PRINTED 7/29/2021	SHEET NUMBER Sheet 3 of 8	REV A
----------------------	------------------------------	----------



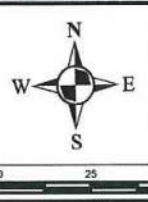
NewCom
Technologies
NewCom goes the extra mile!
6000 GRAND AVENUE
DES MOINES, IA 50312
(515) 274-9611

Unite
PRIVATE NETWORKS
1511 BALTIMORE AVENUE
2ND FLOOR
KANSAS CITY, MO 64108
(866) 813-3608

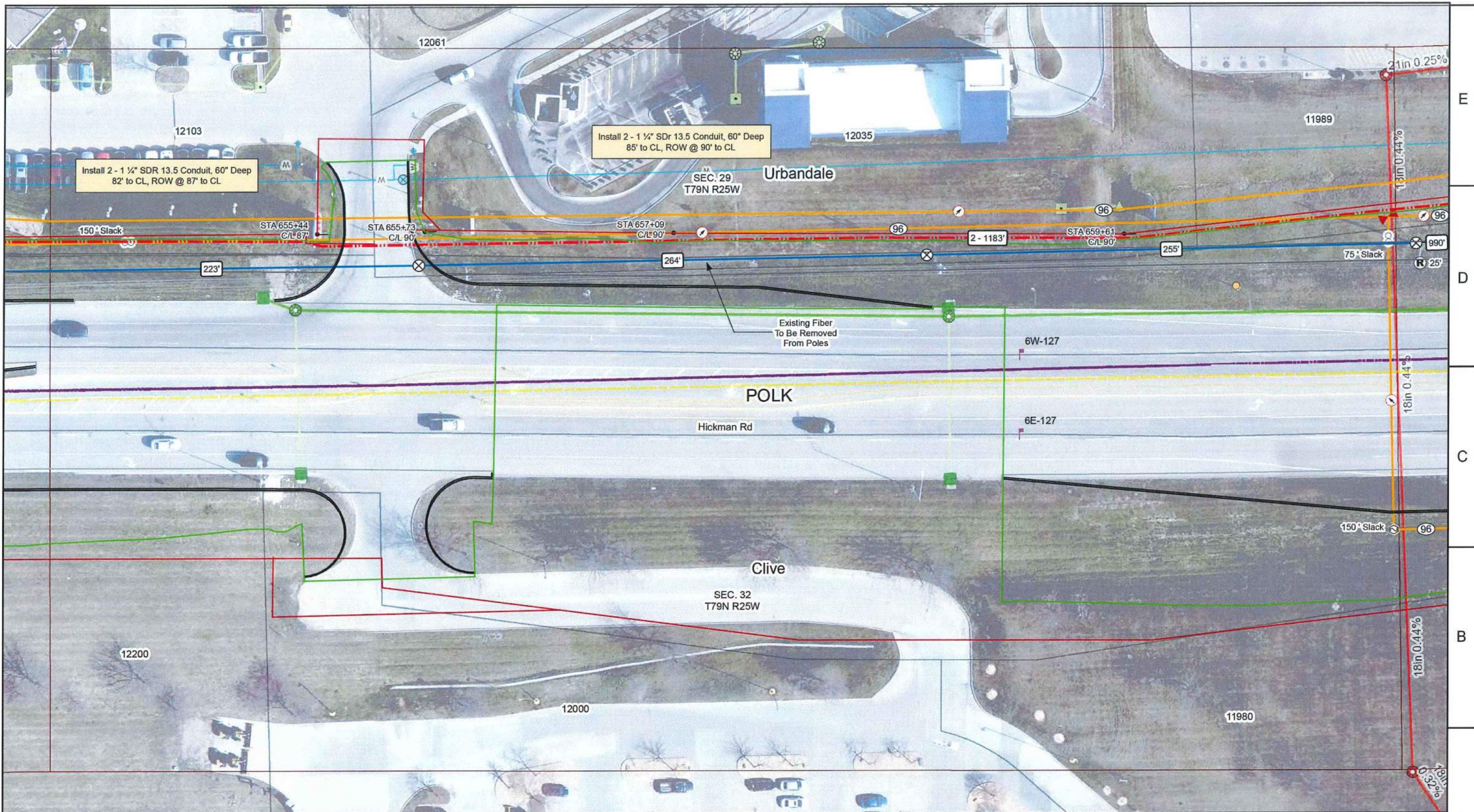


Urbandale/Clive
Polk County
128th and Hickman
Relocation

NO.	DATE	REVISIONS	BY	CHK	APP'D
A	07-29-2021	ISSUED FOR REVIEW	SMK	SMK	SMK
SCALE: 1" = 50'		DESIGNED BY: S. KELLY	DRAWN BY: V. MEZENTSEVA		

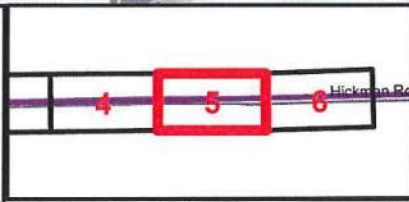


128TH AND HICKMAN
CONSTRUCTION PLANS
PRINTED: 7/29/2021
SHEET NUMBER: Sheet 4 of 8
REV: A



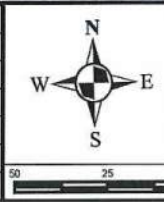
NewCom
Technologies
NewCom gets the extra mile!
6000 GRAND AVENUE
DES MOINES, IA 50312
(515) 274-9611

Unite
PRIVATE NETWORKS
1511 BALTIMORE AVENUE
2ND FLOOR
KANSAS CITY, MO 64108
(866) 813-3608

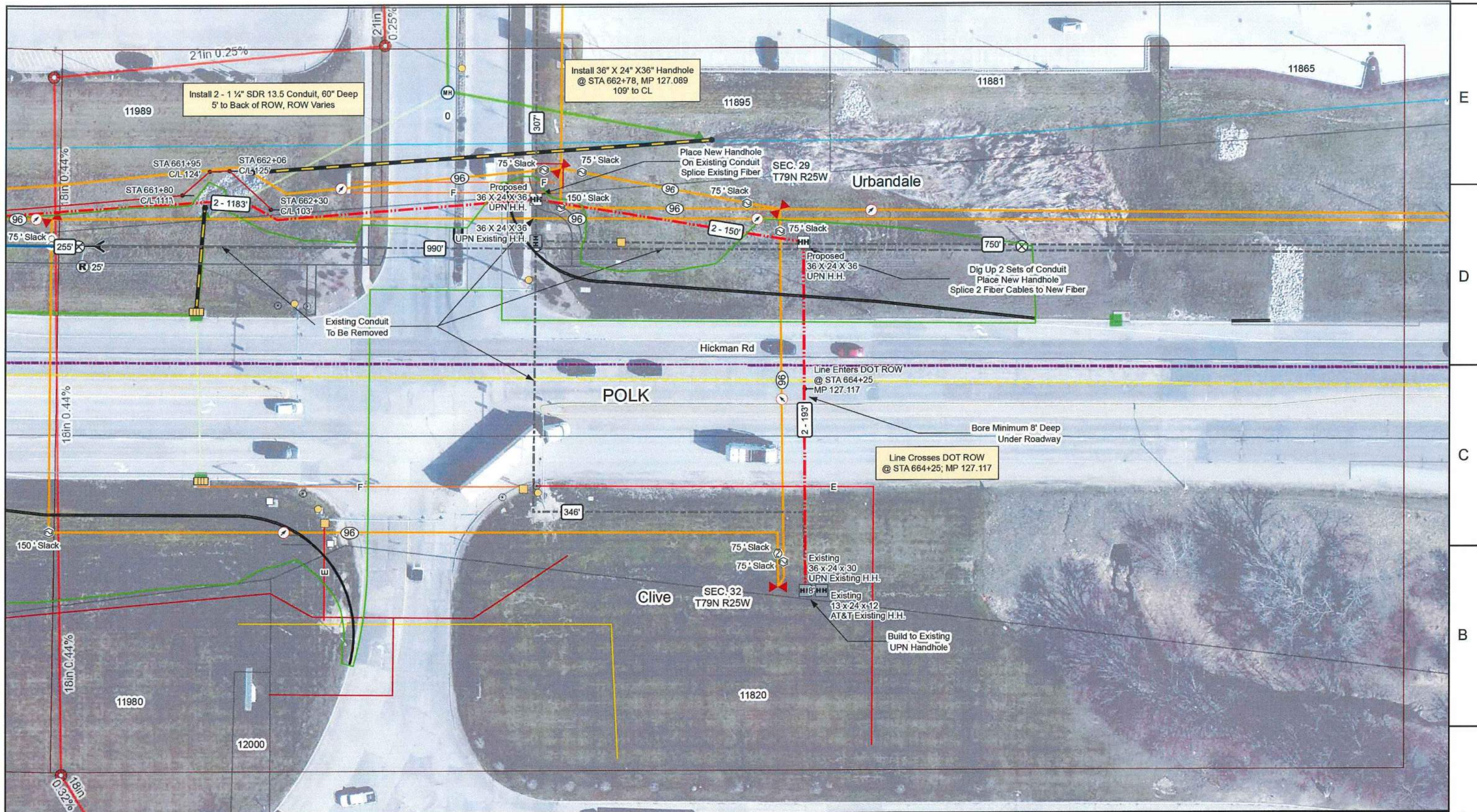


Urbandale/Clive
Polk County
128th and Hickman
Relocation

NO.	DATE	REVISIONS	BY	CHK	APP'D
A	07-29-2021	ISSUED FOR REVIEW	SMK	SMK	SMK
SCALE: 1" = 50'			DESIGNED BY: S. KELLY DRAWN BY: V. MEZENTSEVA		



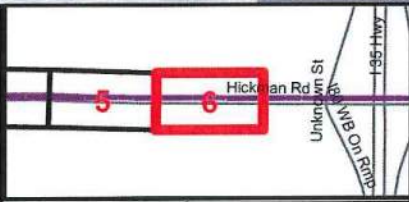
128TH AND HICKMAN
CONSTRUCTION PLANS
PRINTED: 7/29/2021
SHEET NUMBER: Sheet 5 of 8
REV: A



NewCom
Technologies
How can we get the extra mile?
6000 GRAND AVENUE
DES MOINES, IA 50312
(515) 274-9611



1511 BALTIMORE AVENUE
2ND FLOOR
KANSAS CITY, MO 64108
(866) 813-3608



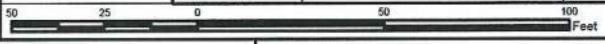
**Urbandale/Clive
Polk County
128th and Hickman
Relocation**

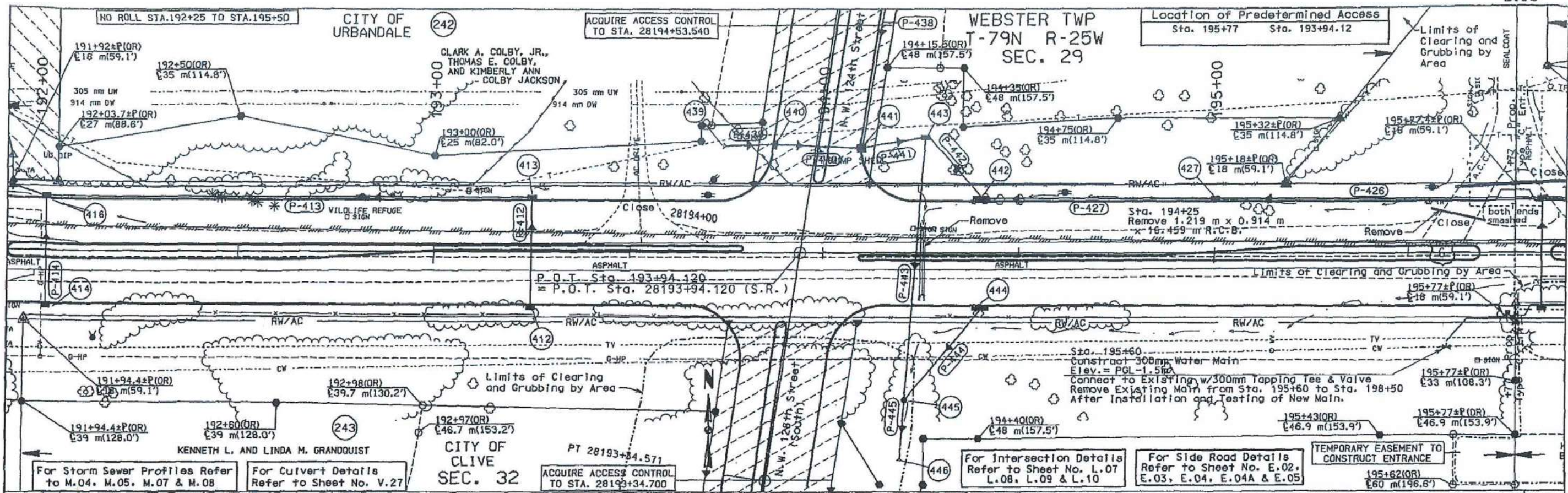
NO.	DATE	REVISIONS	BY	CHK	APP'D
A	07-29-2021	ISSUED FOR REVIEW	SMK	SMK	SMK
SCALE: 1" = 50'		DESIGNED BY: S. KELLY	DRAWN BY: V. MEZENTSEVA		



**128TH AND HICKMAN
CONSTRUCTION PLANS**

PRINTED	SHEET NUMBER	REV
7/29/2021	Sheet 6 of 8	A





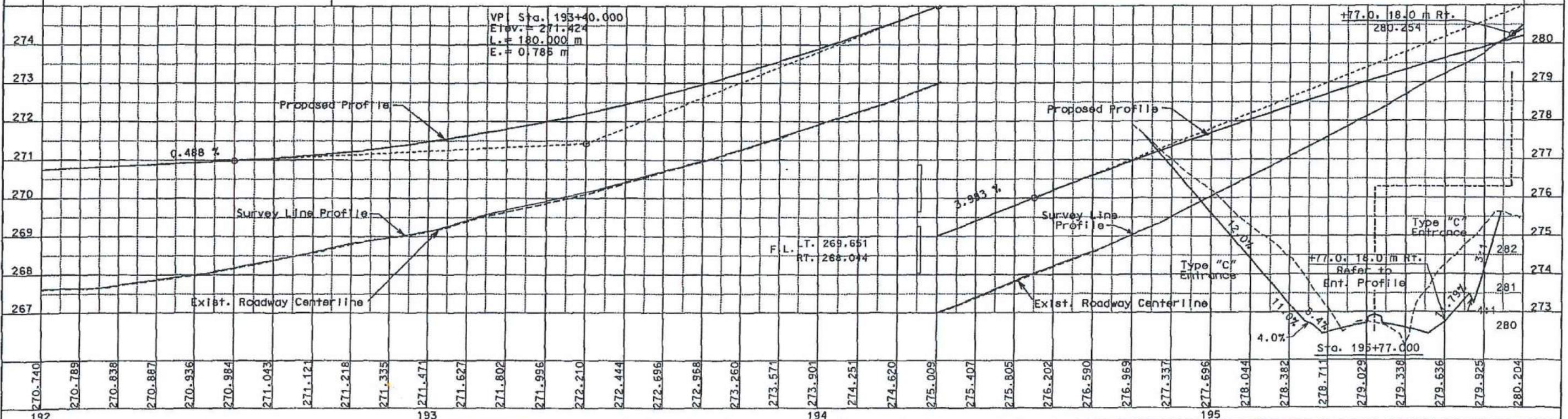
For Storm Sewer Profiles Refer to M.04, M.05, M.07 & M.08
 For Culvert Details Refer to Sheet No. V.27

For Intersection Details Refer to Sheet No. L.07, L.08, L.09 & L.10
 For Side Road Details Refer to Sheet No. E.02, E.03, E.04, E.04A & E.05

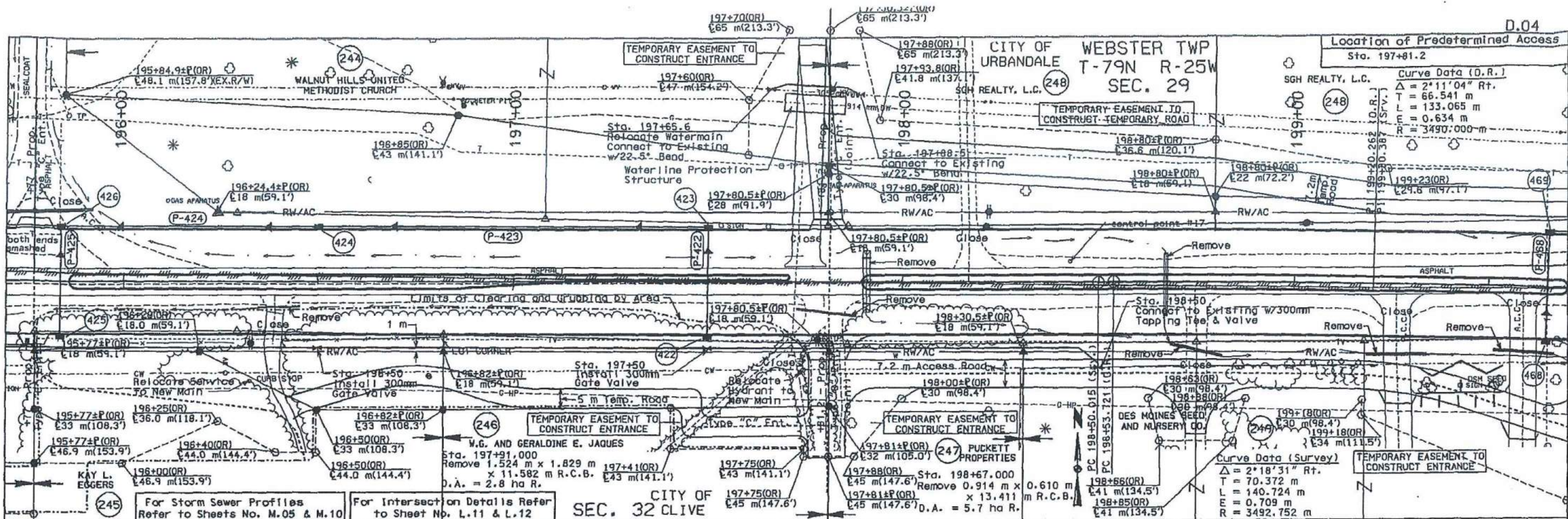
TEMPORARY EASEMENT TO CONSTRUCT ENTRANCE
 195+62(OR)
 160 m(196.6')

C = 2297 m³
 +24507 m³ Embankment in Place
 = 26804 m³

F+25% = 54050 m³ C = 54050 m³



D-1-A



For Storm Sewer Profiles Refer to Sheets No. M.05 & M.10

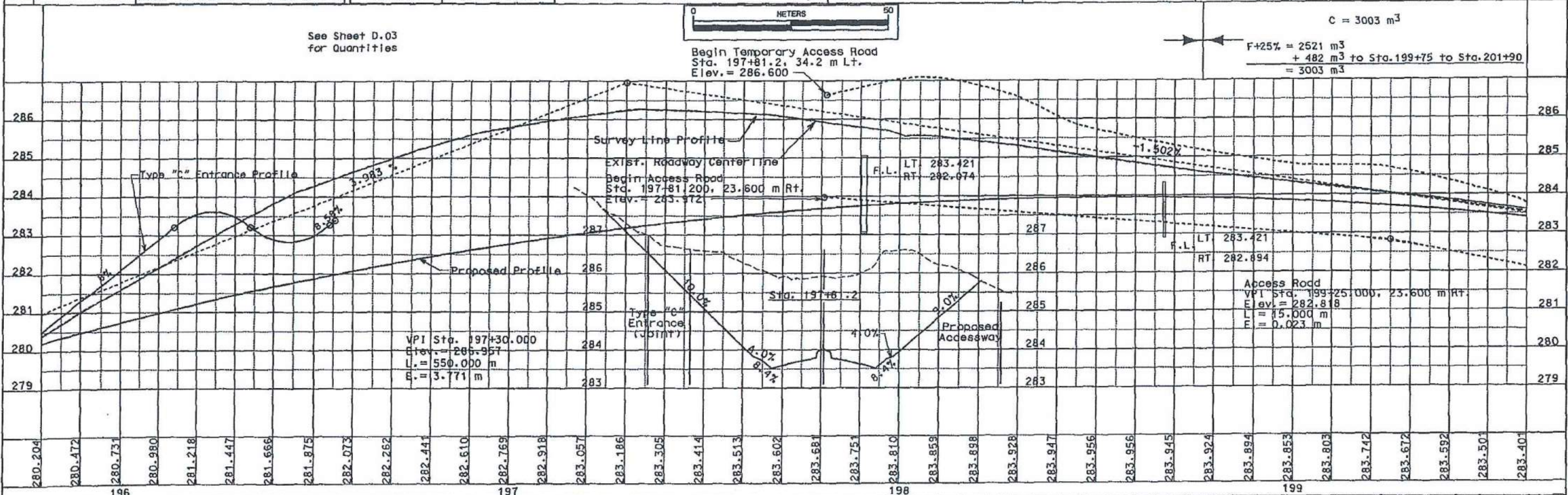
For Intersection Details Refer to Sheet No. L.11 & L.12



See Sheet D.03 for Quantities

$C = 3003 \text{ m}^3$

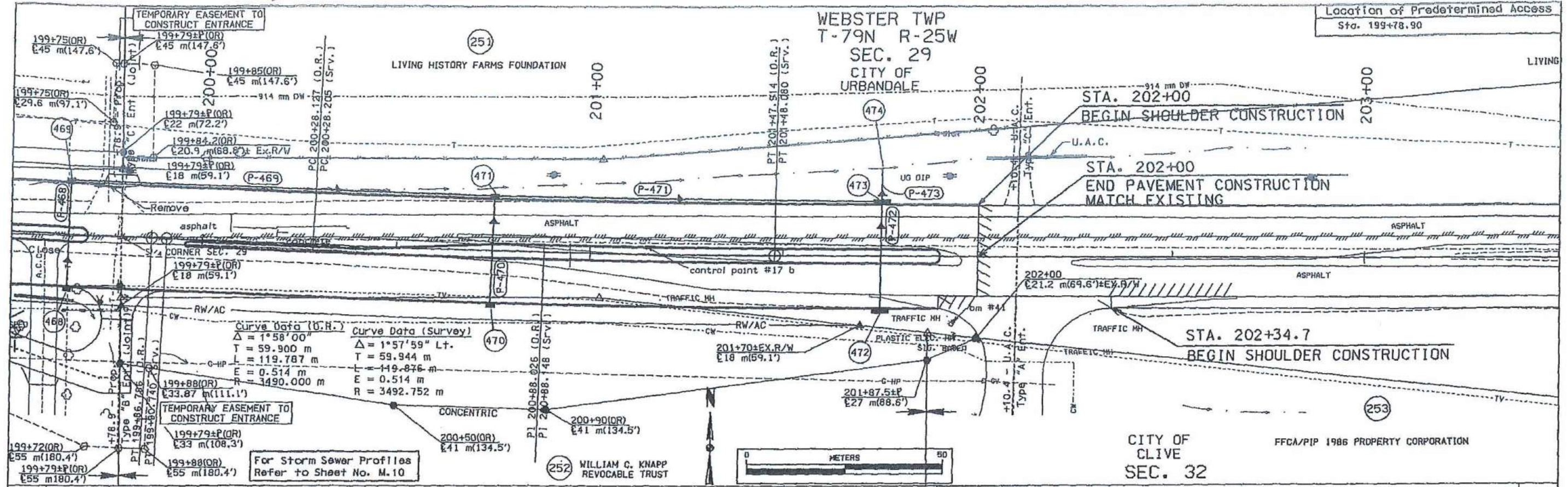
$F+25\% = 2521 \text{ m}^3$
 $+ 482 \text{ m}^3$ to Sta. 199+75 to Sta. 201+90
 $= 3003 \text{ m}^3$



D-1A

Location of Predetermined Access
Sta. 199+78.90

WEBSTER TWP
T-79N R-25W
SEC. 29
CITY OF
URBANDALE

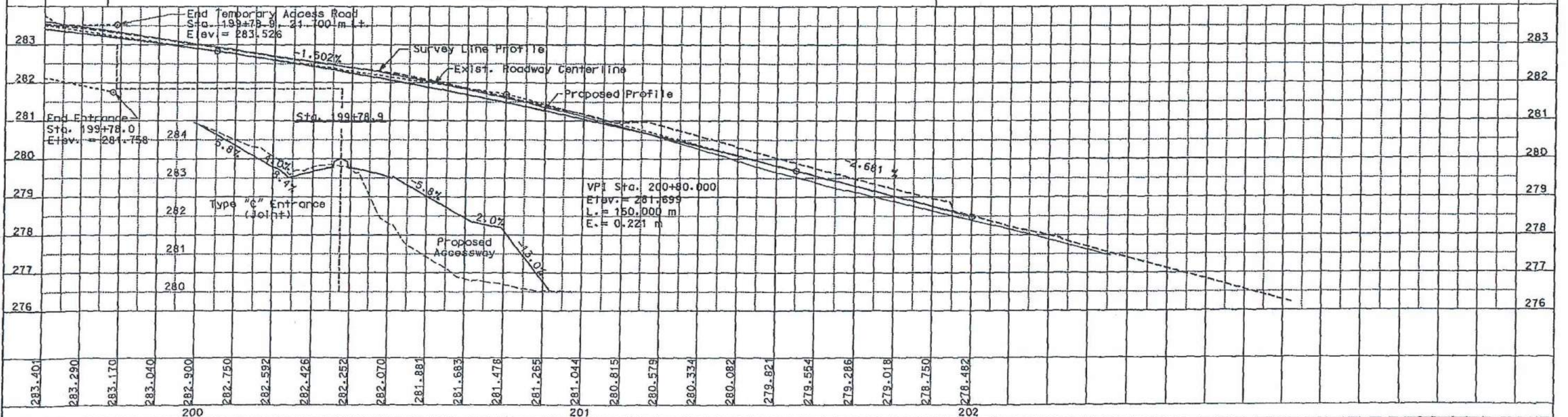


F + 25% = 10109 m³

C = 5094 m³
 + 482 m³ from Sta. 198+52.485 to Sta. 199+75
 + 726 m³ from Sta. 201+90 to Sta. 204+93.2
 + 3807 m³ Embankment In Place
 = 10109 m³

C = 1016 m³

F+25% = 290 m³
 + 726 m³ to Sta. 199+75 to Sta. 201+90
 = 1016 m³



D-1-A