

# IOWA COMMUNICATIONS NETWORK

## MOUNT PLEASANT WESLEYAN RELOCATION TO W COURTLAND ST FIBER INSTALLATION

### HENRY COUNTY, MOUNT PLEASANT, IOWA 1300 W COURTLAND ST TO 600 JACKSON ST



509 SOUTH GILBERT STREET  
IOWA CITY, IA 52240  
PHONE: (319) 338-7557  
STATE OF IOWA, DEPARTMENT OF LABOR  
REGULATION NO. 00527328

**PROJECT INFORMATION**

SCOPE OF WORK:

THE ICN IS RELOCATING FROM IOWA WESLEYAN AT 600 JACKSON ST TO A NEW ICN SHELTER AT 1300 W COURTLAND ST., MOUNT PLEASANT, IA. IT WILL INVOLVE APPROXIMATELY 4661' ROUTE LENGTH AND 5300' OF NEW CABLE INSTALLATION IN NEW CONDUITS. CONTRACTOR IS REQUIRED TO COORDINATE WITH ICN ON THE CUT OVER OF EXISTING CABLES FOR LINKS 1607-4fA AND 1606-12fA, LINK 7045 IRTHP 36f, UPN 12f, AND WINDSTREAM 36f WITH ICN. CREWS WILL BE REQUIRED FOR CABLE PULLING DURING CUTOVER; AFTER HOURS 22:00 TO 6:00.

CONTACT PERSON:

TIM FLICKINGER  
IOWA COMMUNICATIONS NETWORK (ICN)  
PHONE: (515) 725-4699  
timothy.flickinger@icn.state.ia.us

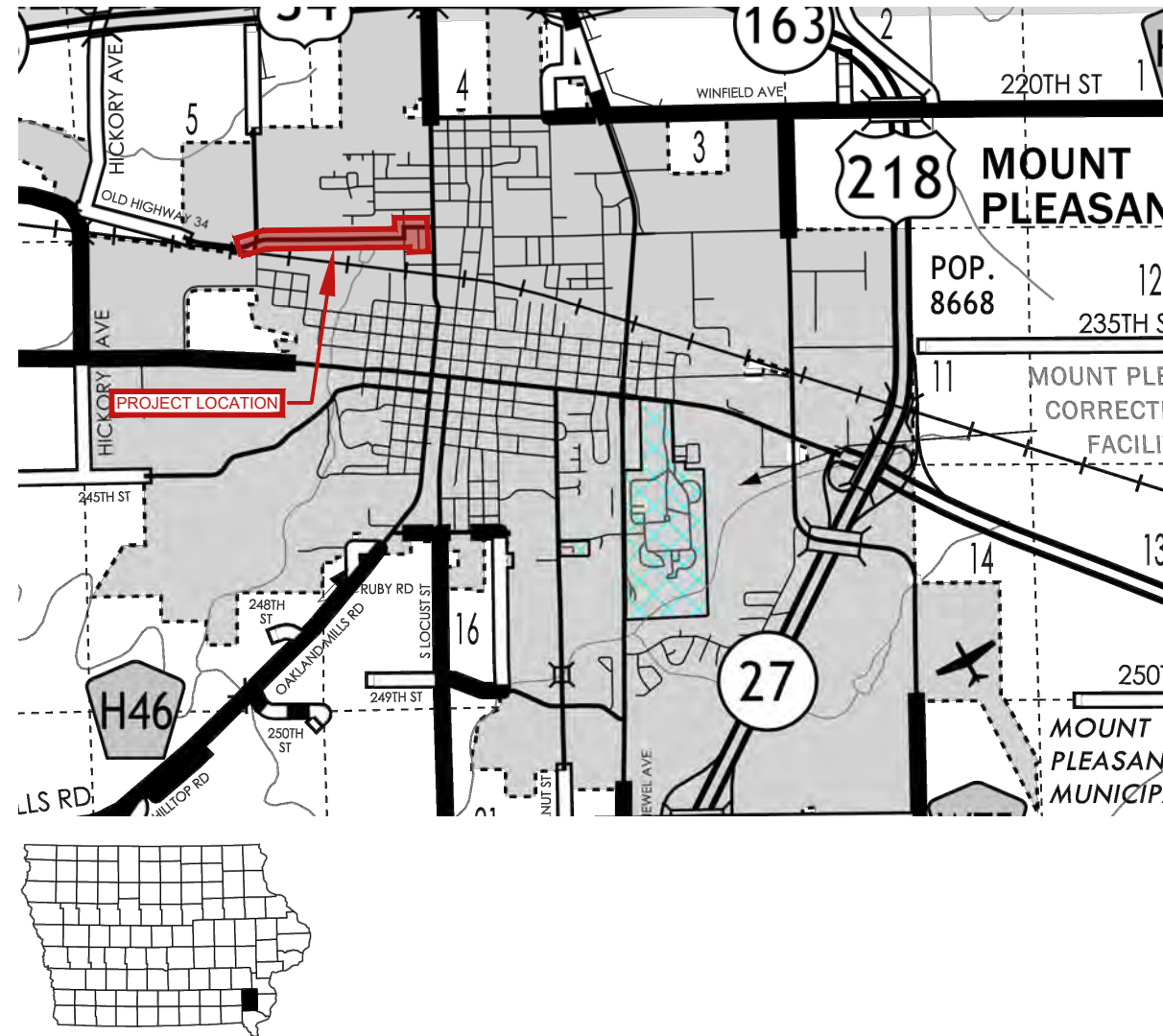
NICK FREERKS  
HBK ENGINEERING  
509 S. GILBERT STREET  
IOWA CITY, IA 52240  
PHONE: (319) 338-7557  
nfreerks@hbkengeering.com

NOTE:

TELECOM MINIMUM DEPTH IS 36" UNDER SOIL AND 48" UNDER PAVED SURFACES. ICN IS REQUIRING 48" MINIMUM.

MAINTAIN 2' OF SEPARATION WHEN CROSSING WATER MAINS.

**LOCATION MAP**



**INDEX OF SHEETS**

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| 5-12  | PLAN SHEETS                       |
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**UTILITY CONTACTS**

| COMPANY                            | CONTACT NAME    | PHONE          | PHONE                               |
|------------------------------------|-----------------|----------------|-------------------------------------|
| ANR PIPELINE COMPANY (AR2)         | GREG LEDGER     | (319) 498-4200 | GREGLEDGER@TCENERGY.COM             |
| ALLIANT ENERGY (ASE)               | FIELD ENGINEER  | (800) 572-3940 | LOCATEIPL@ALLIANTENERGY.COM         |
| IOWA COMMUNICATIONS NETWORK (ICN)  | SHANNON MARLOW  | (800) 572-3940 | ICNOUTSIDEPLANTIOWAONECALL@IOWA.GOV |
| IOWA HOSPITAL ASSOCIATION (IHA)    | SHANNON MARLOW  | (800) 572-3940 | ICNOUTSIDEPLANTIOWAONECALL@IOWA.GOV |
| MNA/BUEBIRD (MNB01)                | JAMIE SCOTT     | (314) 427-8738 | JAMES.SCOTT@BLUEBIRDBIRDNETWORK.COM |
| MOUNT PLEASANT MUNICIPAL UTILITIES | JACK HEDGE COCK | (319) 385-2121 | MPUGROUP@MTPUTILITIES.COM           |
| CITY OF MOUNT PLEASANT (MTP)       | RICK MULLIN     | (319) 385-1480 | RMULLIN@IOWATELECOM.NET             |
| ACCESS ENERGY COOPERATIVE (SEI)    | DAN PHILIPS     | (319) 385-1577 | DPHILIPS@ACCESSENERGYCOOP.COM       |
| MEDIACOM (TC9)                     | DARRIN WALKER   | (319) 759-3786 | DWALKER@MEDIACOMCC.COM              |
| UNITE PRIVATE NETWORKS, LLC (UPN)  | JOE KILZER      | (816) 425-3556 | UPNGIS@UPNFIBER.COM                 |
| WINDSTREAM COMMUNICATIONS          | LOCATE DESK     | (800) 289-1901 | LOCATE.DESK@WINDSTREAM.COM          |

NOTE:  
CALL 811 FOR LOCATION OF UNDERGROUND TELEPHONE, ELECTRIC, GAS MAINS, CABLE TELEVISION AND OTHER UTILITIES.

EXISTING UNDERGROUND AND OVERHEAD UTILITIES AND DRAINAGE STRUCTURES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THEREFORE, THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS THE RESPONSIBILITY OF THE INDIVIDUAL CONTRACTORS TO EXACTLY LOCATE AND PROTECT EACH EXISTING UTILITY BEFORE AND DURING ACTUAL CONSTRUCTION.



| MOUNT PLEASANT IOWA WESLEYAN FIBER RELOCATION FIBER INSTALLATION |                  |            |
|--|------------------|------------|
| 1  | FOR 60% REVIEW   | 08/17/2023 |
| 2  | FOR 90% REVIEW   | 08/31/2023 |
| 3  | FOR PERMIT PLANS | 09/11/2023 |
| 4  |                  |            |

IOWA COMMUNICATIONS NETWORK  
400 EAST 14TH STREET  
GRIMES STATE OFFICE BUILDING  
DES MOINES, IOWA 50319  
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\*THIS CONTACT LIST IS NOT ALL-INCLUSIVE. CONTRACTOR IS RESPONSIBLE FOR REQUESTING LOCATES OF ALL UTILITIES.

ENGINEER GENERAL NOTES AND LEGENED

ALL CONDUIT AND HANDHOLE INSTALLATIONS, REMOVALS, MODIFICATIONS, AND TEMPORARY WORK SHALL BE DONE ACCORDING TO THE FOLLOWING NON-INCLUSIVE CONDITIONS:

**SECTION 1.0 SCOPE OF WORK**

- 1.01 INSTALLATION DESCRIPTION:  
INSTALL CONDUIT AND ALL RELATED APPURTENANCES FOR FIBER OPTIC CABLE INSTALLATION. SEE PLANS FOR EXACT LOCATION, LENGTHS, QUANTITIES, AND DIMENSIONS OF PROPOSE IMPROVEMENTS.
- 1.02 SEE SHEET 4 FOR LOCATION OF ENGINEER'S ESTIMATE OF MATERIALS.
- 1.03 THE CONTRACTOR SHALL PROVIDE ALL MATERIAL, EQUIPMENT, LABOR, INSTALLATION, RESTORATION, UTILITY RELOCATION CHARGES, JOB SITE DELIVERY COSTS AND INCIDENTALS TO COMPLETE THE DESCRIBED OR ILLUSTRATED WORK, UNDER THIS CONTRACT.
- 1.04 ANY CHANGE-ORDER REQUEST MUST BE PRESENTED IN WRITING TO THE OWNER'S REPRESENTATIVE AND APPROVED PRIOR TO PROCEEDING WITH THE REQUESTED CHANGE. DOCUMENTATION CONCERNING ANY AND ALL CHANGE ORDERS WILL BE REDUCED TO FORMAL RECORD, FILED WITH THE OWNER'S REPRESENTATIVE, AND BE MADE AVAILABLE FOR FUTURE REFERENCE.
- 1.05 THE CONTRACTOR SHALL PROVIDE A MINIMUM 48 HOUR ADVANCED NOTICE TO HBK ENGINEERING (319-338-7557) TO SCHEDULE A PRE-CONSTRUCTION WALK THROUGH WITH A HBK ENGINEERING REPRESENTATIVE. THIS WALK THROUGH MUST BE COMPLETED PRIOR TO THE COMMENCEMENT OF ANY WORK WITHIN THE LIMITS OF THIS PROJECT.
- 1.06 THE ENGINEER WILL NOT BE RESPONSIBLE NOR ASSUME ANY LIABILITY FOR NEGLIGENT ACTS OR ERRORS OF OMISSIONS OF ANY CONTRACTOR, ANY SUBCONTRACTOR, OR ANY OF THE CONTRACTOR'S OR SUBCONTRACTORS' AGENTS OR EMPLOYEES OR ANY OTHER PERSONS (EXCEPT ENGINEER'S OWN EMPLOYEES) AT THE PROJECT SITE OR OTHERWISE PERFORMING ANY OF THE WORK OF THE PROJECT. ANY CONTRACTOR OR SUBCONTRACTOR, AS WELL AS THE ENGINEER, WILL BE RESPONSIBLE FOR HIS OWN SAFETY PROGRAM. NEITHER THE PROFESSIONAL ACTIVITIES OF THE ENGINEER, NOR THE PRESENCE OF THE ENGINEER OR HIS OR HER EMPLOYEES AND SUB-CONSULTANTS AT THE CONSTRUCTION SITE, SHALL RELIEVE ANY CONTRACTOR OF HIS OR HER OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING OR COORDINATING ALL PORTIONS OF THE WORK OF CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. THE ENGINEER AND HIS OR HER PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR OTHER ENTITY OR THEIR EMPLOYEES IN CONNECTION WITH ANY HEALTH OR SAFETY PRECAUTIONS.

**SECTION 2.0 MATERIALS**

- 2.01 ALL MATERIALS INSTALLED WITHIN THE LIMITS OF THIS PROJECT SHALL BE IN CONFORMANCE WITH STANDARD RECOMMENDATIONS OF THE NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA) AND AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI).
- 2.02 ALL TRENCHED CONDUIT, ELBOWS, AND COUPLINGS SHALL BE HDPE UNLESS OTHERWISE NOTED. ALL BORED CONDUIT AND COUPLINGS SHALL BE HDPE SDR-13 UNLESS OTHERWISE NOTED.
- 2.03 JOB SITE MATERIAL WILL BE DELIVERED TO AND MAINTAINED AT THE STREET WORK AREAS IN A WELL MANAGED MANNER, TO MINIMIZE CONGESTION OR INCONVENIENCE TO OTHER WORKERS, OR CONTRACTORS WORKING UNDER ALTERNATE PERMITS.

**SECTION 3.0 GENERAL NOTES**

- 3.01 CONTRACTOR IS ADVISED TO READ ALL NOTES ON DRAWINGS, CAREFULLY.
- 3.02 THE CONTRACTOR SHALL VERIFY EXISTING STREET RIGHTS OF WAY TO THE EXTENT NECESSARY TO VERIFY PROPOSED WORK REMAINS WITHIN THESE RIGHTS OF WAY AND DOES NOT INFRINGE ON PRIVATE PROPERTY NOT OWNED BY THE OWNER.
- 3.03 SCALE FOR DRAWINGS IS FOR GENERAL INFORMATION ONLY. LOCATIONS AND DIMENSIONS SHALL BE TAKEN AS SHOWN AND THE DRAWINGS SHALL NOT BE SCALED.
- 3.04 CONTRACTOR SHALL COORDINATE ALL WORK WITH ALL PUBLIC AND PRIVATE UTILITIES AS WELL AS CITY AND STATE AGENCIES.
- 3.05 INSTALL CONDUIT MINIMUM OF 10'-0" BELOW ALL WATERWAYS AND CULVERT CROSSINGS. CONTRACTOR TO VERIFY CULVERT DEPTH PRIOR TO CONDUIT INSTALLATION.
- 3.06 NUMEROUS ELEVATION CHANGES. TOPOGRAPHY LINES SHOWN ON DRAWING FOR REFERENCE ONLY.
- 3.07 DUE TO EXISTING FORESTED AREAS, SOME TREE REMOVAL AND TRIMMING REQUIRED FOR CONDUIT OR HANDHOLE INSTALLATION WITHIN THE RIGHT-OF-WAY.
- 3.08 RIGHT OF WAY LOCATIONS ARE APPROXIMATE. FIBER INSTALLATION 6'-0" MINIMUM OFF RIGHT-OF-WAY.

**SECTION 4.0 SAFETY**

- 4.01 CONTRACTOR SHALL TAKE ALL NECESSARY SAFETY PRECAUTIONS TO PROTECT UTILITIES, PEDESTRIANS, WORKERS AND VEHICULAR TRAFFIC. THE CONTRACTOR SHALL PROVIDE TEMPORARY FENCES, BARRICADES, ETC. AS REQUIRED TO PROTECT ADJACENT PROPERTY AND THE PUBLIC DURING ALL PHASES OF CONSTRUCTION.
- 4.02 THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY BARRICADES, SIGNAGE, WARNING LIGHTS AND OTHER DEVICES AND KEEP ALL TRAFFIC CONTROL OPERATIONAL 24 HOURS A DAY AT ALL OPEN TRENCH LOCATIONS AND AT LOCATIONS WHICH DO NOT HAVE A FINISHED SURFACE OR ROAD PLATES.
- 4.03 THE CONTRACTOR SHALL COORDINATE INGRESS AND EGRESS TO ADJACENT PROPERTIES AND/OR CONSTRUCTION AFFECTED BY THE PROPOSED WORK.

**SECTION 5.0 EXISTING UTILITIES**

- 5.01 EXISTING CONDITIONS, STRUCTURES, UTILITIES AND SURFACE FEATURES SHOWN WERE OBTAINED FROM UTILITY ATLASES AND FROM DRAWINGS FURNISHED BY THE VARIOUS UTILITIES AND ARE ASSUMED TO BE ACCURATE AND CORRECT. THE CONTRACTOR SHALL PERFORM HIS OWN SURVEY AND VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS OF EXISTING STRUCTURES PRIOR TO STARTING ANY WORK.
- 5.02 FOR BORED INSTALLATIONS, THE CONTRACTOR SHALL PERFORM TEST HOLES AT ALL UTILITY CROSSINGS TO VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO ANY EXCAVATION, AND TO LOCATE ANY POSSIBLE OBSTRUCTIONS. ALL TEST HOLES SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- 5.03 FOR TRENCHED INSTALLATIONS, THE CONTRACTOR SHALL PERFORM TEST HOLES PER PLAN OR AS DEEMED NECESSARY TO VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO ANY EXCAVATION, AND TO LOCATE ANY POSSIBLE OBSTRUCTIONS. ALL TEST HOLES SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- 5.04 THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL OVERHEAD OBSTRUCTIONS PRIOR TO THE COMMENCEMENT OF WORK.
- 5.05 EXISTING UTILITIES ARE SHOWN AT THEIR APPROXIMATE LOCATION. THE CONTRACTOR SHALL CONTACT IOWA ONE CALL AT 1(800)-292-8989 A MINIMUM OF 48 HOURS (EXCLUDING WEEKENDS AND GOVERNMENT HOLIDAYS) PRIOR TO COMMENCEMENT OF ANY PAVEMENT CUTS OR EXCAVATION TO REQUEST LOCATING AND MARKING OF EXISTING UTILITIES PRIOR TO PERFORMING ANY EXCAVATION WORK IN OR AROUND ANY UTILITY.
- 5.06 ALL EXCAVATION WORK NEAR AND AROUND EXISTING STRUCTURES AND UTILITIES SHALL BE BY HAND METHOD.
- 5.07 ALL DISCREPANCIES SHOULD BE REPORTED TO ENGINEER OF RECORD AT HBK ENGINEERING (319-338-7557). ANY QUESTIONS OR COMMENTS THE CONTRACTOR MAY HAVE ARE TO BE DISCUSSED WITH THE OWNER AND ENGINEER PRIOR TO CONSTRUCTION.
- 5.08 FURTHER, THE CONTRACTOR SHALL RECORD THE LOCATION AND ELEVATION OF ALL UTILITIES ENCOUNTERED, AND INSTALLATION OF NEW WORK, AS THE WORK PROGRESSES AND SHALL PREPARE RECORD DRAWINGS (RED-LINES) BASED ON HIS RECORDS. AS PART OF THE RECORD DRAWINGS, CONTRACTOR SHALL ALSO PROVIDE HORIZONTAL AND VERTICAL CONFIGURATION OF CONDUITS WHERE MULTIPLE CONDUITS ARE INSTALLED. THESE RECORDS TO BE SUPPLIED TO HBK ENGINEERING, LLC AT COMPLETION OF WORK.
- 5.09 AT SEWER DRAINS FROM HOMES OR OTHER BUILDINGS, IF THERE IS INTERFERENCE, REPLACE INKIND. IN ALL CASES WHERE SEWER WORK IS DONE, A PERMIT SHOULD BE OBTAINED AND A SEWER INSPECTOR SHOULD BE PRESENT DURING THE WORK.
- 5.10 CONTRACTOR SHALL SUPPORT ALL WATER MAINS IN EXCESS OF 12" IN DIAMETER WITH A PERMANENT TYPE OF STRUCTURE UNLESS OTHERWISE NOTIFIED BY THE WATER DEPARTMENT, AND IS INCLUDED IN COST FOR DOING THE WORK. AT NO TIME DURING CONSTRUCTION SHALL WATER MAINS GO UNSUPPORTED FOR A SPAN GREATER THAN 8'-0".
- 5.11 CONTRACTOR RESPONSIBLE FOR OBTAINING AND PROVIDING REVIEW AND DESIGN OF ANY AND ALL TEMPORARY UTILITY SUPPORT SYSTEMS PRIOR TO CONSTRUCTION.
- 5.12 CONTRACTOR SHALL NOTIFY ALLIANT IN SITUATIONS WHERE STEEL PIPE CONDUCTOR IS NICKED DURING EXCAVATION. ALLIANT WILL EVALUATE THE EXTENT OF THE DAMAGE SO AS TO DETERMINE WHETHER REPAIR IS REQUIRED PRIOR TO BACKFILL AND GRADE SURFACE RESTORATION.

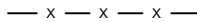
















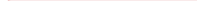



























**SECTION 6.0 WORK**

- 6.01 NO STORAGE OF EQUIPMENT OR MATERIALS IN THE ROADWAY IS PERMITTED UNLESS THE CONTRACTOR OBTAINS WRITTEN PERMISSION FROM THE CITY, STATE, AND/OR GOVERNING BODY.
- 6.02 THE CONTRACTOR SHALL MARK ALL OPENINGS ON THE SURFACE PRIOR TO THE COMMENCEMENT OF EXCAVATION. ALL OPENINGS ON PAVED SURFACES SHALL BE SAW CUT PRIOR TO REMOVAL OF PAVEMENT.
- 6.03 CONTRACTOR RESPONSIBLE FOR OBTAINING AND PROVIDING REVIEW AND DESIGN OF ANY AND ALL SHORING SYSTEMS PRIOR TO CONSTRUCTION.
- 6.04 CONTRACTOR SHALL ASSUME ALL ELECTRICAL CABLES ARE ENERGIZED AND SHALL BE SUPPORTED SO AS NOT TO STRESS ANY PORTION OF THE CABLE.
- 6.05 CONTRACTOR SHALL PROVIDE APPROPRIATE ENGINEERED DE-WATERING MEASURES, IF NECESSARY, TO ENSURE GROUNDWATER TABLE REMAINS AT A DEPTH BELOW THE BASE OF THE EXCAVATION AT ALL TIMES DURING EXCAVATION, INSTALLATION AND BACKFILLING OPERATIONS.
- 6.06 THE ENGINEER SHALL BE NOTIFIED FOR RESOLUTION OF SITUATIONS WHERE CONDUIT DEPTH BELOW GRADE DEVIATES BY MORE THAN 3" AS CURRENTLY SHOWN ON PLAN/PROFILE DRAWINGS.
- 6.07 THE ENGINEER SHALL ALSO BE NOTIFIED FOR DISPOSITION OF SITUATIONS WHERE THE CONDUIT CANNOT MAINTAIN SEPARATIONS PER PLAN.



**SECTION 7.0 RESTORATION**

- 7.01 THE CONTRACTOR SHALL OBTAIN A PERMIT TO PERFORM ALL RESTORATION WORK IN THE CONTRACTOR'S NAME. ALL PAVING SHALL BE COMPLETED WITHIN 15 WORKING DAYS AFTER EXCAVATION IS BACKFILLED UNLESS OTHERWISE ARRANGED IN ADVANCE WITH GOVERNING AGENCY.
- 7.02 CONTRACTOR SHALL BREAK OUT SIDEWALK, DRIVEWAY, CURB AND GUTTER, PAVEMENT AND RESTORE TO PERMANENT CONDITION. CONTRACTOR TO CONFORM CONCRETE TO COLOR, FINISH, AND TEXTURE OF EXISTING SIDEWALKS, CURB AND GUTTER.
- 7.03 THE CONTRACTOR IS RESPONSIBLE FOR THE RESTORATION OF THE AREAS DISTURBED BY CONSTRUCTION ACTIVITIES. CONTRACTOR TO PAY ALL FEES AND OBTAIN ALL PERMITS FOR RESTORATION.
- 7.04 THE CONTRACTOR IS TO RESTORE ALL DAMAGED STRUCTURES AND UTILITIES TO THE SATISFACTION OF THE FACILITY OWNER, IN THE EVENT THAT DAMAGE OCCURS.

**LEGEND**

- FENCE 
- EXISTING ROW LINE 
- EXISTING FIBER OPTIC LINE 
- EXISTING OVERHEAD LINE 
- EXISTING STORM DRAIN 
- EXISTING ELECTRIC (BURIED) 
- EXISTING GAS LINE 
- EXISTING STORM SEWER 
- EXISTING SANITARY SEWER 
- EXISTING WATER LINE 
- EXISTING ICN FIBER 
- EXISTING ICN (AERIAL) 
- EXISTING ICN CONDUIT 
- TO BE ABANDONED 
- PROPOSED ICN FIBER 
- PROPOSED AERIAL 
- PROPOSED ICN CONDUIT 
- CENTERLINE OF ROAD 
- EXISTING WATERWAY BOUNDARY 
- PROPOSED ICN HANDHOLE 
- EXISTING ICN HANDHOLE 
- PROPOSED HANDHOLE (BY OTHERS) 
- EXISTING STORM CULVERT LOCATION 
- EXISTING STORM MANHOLE 
- EXISTING STORM INLET 
- EXISTING SANITARY MANHOLE 
- EXISTING SANITARY CLEAN OUT 
- EXISTING FIBER OPTIC MANHOLE 
- EXISTING FIBER OPTIC HANDHOLE 
- EXISTING COMMUNICATIONS MANHOLE 
- EXISTING COMMUNICATIONS HANDHOLE 
- EXISTING COMMUNICATIONS PEDESTAL 
- EXISTING ELECTRIC MANHOLE 
- EXISTING ELECTRIC TRANSFORMER 
- EXISTING ELECTRIC PEDESTAL 
- EXISTING ELECTRIC HANDHOLE 
- EXISTING UTILITY POLE 
- EXISTING GUY ANCHOR 
- EXISTING LIGHT POLE 
- EXISTING WATER MANHOLE 
- EXISTING WATER VALVE 
- EXISTING MONITORING WELL 
- EXISTING FIRE HYDRANT 
- EXISTING NATURAL GAS MANHOLE 
- EXISTING NATURAL GAS VALVE 
- EXISTING TREE 



|  |                  |            |   |   |
|--|------------------|------------|---|---|
| MOUNT PLEASANT IOWA WESLEYAN FIBER RELOCATION FIBER INSTALLATION |                  |            |    |  |
| 1  | FOR 60% REVIEW   | 08/17/2023 | IOWA COMMUNICATIONS NETWORK<br>400 EAST 14TH STREET<br>GRIMES STATE OFFICE BUILDING<br>DES MOINES, IOWA 50319<br>ICN © 2021, COPY WITH PERMISSION |   |
| 2  | FOR 90% REVIEW   | 08/31/2023 |   |   |
| 3  | FOR PERMIT PLANS | 09/11/2023 |   |   |
| 4  |                  |            |   |   |



ICN GENERAL NOTES

STANDARD INSTALLATION REQUIREMENTS:

GENERAL REQUIREMENTS:

1. THE CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITIES.
2. PROVIDE THE OWNERS OF ANY NATURAL GAS UTILITY 48 HOURS ADVANCE NOTICE THAT WORK IS SCHEDULED IN THE VICINITY OF THEIR LINES/MAINS SO THAT THEY CAN PROVIDE STANDBY AND PROTECT SERVICES.
3. MAINTAIN PROOF OF NOTIFICATION TO AND RECEIPT OF NOTIFICATION BY THE GAS UTILITY.
4. PERMITS AND COORDINATION
  - 4.1. SECURE ALL NECESSARY STATE AND LOCAL (CITY, COUNTY, ETC.) PERMITS, PUBLIC OR PRIVATE EASEMENTS, FACILITY PERMITS, USAGE PERMITS, AND ANY OTHER PERMIT REQUIRED BY AN AUTHORITY HAVING JURISDICTION (AHJ). ALL CONTRACTORS AND SUBCONTRACTORS MUST BE LICENSED AND BONDED WITH THE CITY OF CLEAR LAKE.
  - 4.2. ICN WILL OBTAIN AND PROVIDE COPIES OF IDOT PERMITS.
  - 4.3. IF PERMITS ARE REQUIRED TO BE IN THE NAME OF THE OWNER RATHER THAN THE CONTRACTOR, THE CONTRACTOR SHALL PREPARE THE PERMIT FOR THE OWNER'S SIGNATURE.
  - 4.4. COORDINATE INSTALLATION WITH ALL OWNERS AND AHJ OVER THE ROUTE, THE FIBER, RIGHT-OF-WAY AND BUILDINGS IN WHICH END POINTS WILL BE LOCATED.
  - 4.5. FAILURE TO COORDINATE WITH THE AHJ AND TO OBTAIN ALL NECESSARY PERMITS IS AT THE PERIL OF THE CONTRACTOR.
  - 4.6. RIGHT-OF-WAY PERMIT FEES ARE AN AUTHORIZED EXTRA ABOVE THE QUOTED BID PRICE. EXCAVATION PERMITS SHALL BE BY THE CONTRACTOR.
  - 4.7. ENSURE ALL FACILITIES ARE PLACED WITHIN THE PUBLIC RIGHT-OF-WAY.
5. ENSURE THAT PERSONNEL WORKING IN THE ROW ARE EQUIPPED WITH AND USE PROPER SAFETY EQUIPMENT AND ATTIRE.
6. ALL TOOLS AND TEST EQUIPMENT REQUIRED TO DO A PROJECT SHALL BE PROVIDED BY THE CONTRACTOR OR ITS SUBCONTRACTOR(S). SECURITY OF TOOLS AND TEST EQUIPMENT SHALL BE THE RESPONSIBILITY OF EACH WORKER. THE ICN SHALL NOT BE RESPONSIBLE FOR THE SECURITY OF ANY PROPERTY LEFT ON ICN'S PROPERTY OR ON PROPERTY CONTROLLED BY THE ICN OR THE STATE OF IOWA.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTRUCTING ITS EMPLOYEES IN SAFETY MEASURES CONSIDERED APPROPRIATE FOR THE JOB. IN ADDITION, THE CONTRACTOR SHALL NOT PERMIT PLACING OR USE OF TOOLS OR MATERIALS IN TRAFFIC LANES OR OTHER LOCATIONS. THE TOOLS OR MATERIALS SHALL NOT BE PLACED IN SUCH A MANNER SO AS TO CREATE SAFETY HAZARDS TO STATE EMPLOYEES, CONTRACTING AGENCY EMPLOYEES, THE PUBLIC OR THEMSELVES.
8. EXCAVATIONS AND TRENCHES: THE ICN REQUIRES ALL OPEN EXCAVATIONS OR TRENCHES TO BE MONITORED AND ATTENDED TO DURING CONSTRUCTION PER. THE ICN REQUIRES ALL OPEN EXCAVATIONS AND TRENCHES BACKFILLED THE SAME DAY. IF THE CONTRACTOR IS REQUIRED TO LEAVE AN EXCAVATION OR TRENCH OPEN, THEN THE CONTRACTOR SHALL PROPERLY FENCE AND/OR COVER THE EXCAVATION FOR SAFETY. CONTRACTOR SHALL FOLLOW ALL OSHA REQUIREMENTS FOR EXCAVATION AND TRENCH SAFETY.
9. CONTRACTOR AND ITS EMPLOYEES SHALL COMPLY WITH ALL OSHA REGULATIONS. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE STATE AND FEDERAL LAWS.
10. CONTRACTOR SHALL COMPLY WITH ALL IOWA ONE CALL REQUIREMENTS AS PROVIDED BY IOWA CODE, CHAPTER 480.
11. PROVIDE ALL LABOR AND SUPERVISION FOR THE PROJECT.
12. PROVIDE AND INSTALL MATERIALS NEEDED TO RESULT IN A FULLY FUNCTIONAL SYSTEM MEETING ICN STANDARDS, WHETHER OR NOT THE MATERIALS OR METHODS ARE SPECIFICALLY MENTIONED IN THIS DOCUMENT. SEE THE LIST OF ICN-FURNISHED MATERIALS.
13. INSTALL CABLE ROUTE MARKERS FURNISHED BY ICN. WHERE POSSIBLE, INSTALL MARKERS ADJACENT TO POLES, BUILDINGS OR IN OTHER PROTECTED AREAS.
14. A COPY OF THIS SCOPE OF WORK AND THE ENGINEERING PLAN FOR THIS PROJECT SHALL BE ON SITE AND AVAILABLE ANY TIME WORK IS BEING PERFORMED. FAILURE TO HAVE THE REQUIRED DOCUMENTS ON SITE MAY RESULT IN ICN REQUIRING THE CONTRACTOR TO STOP WORKING UNTIL THE REQUIRED DOCUMENTS ARE ON-SITE.
15. SUBCONTRACTORS SHALL MEET THE SAME QUALIFICATIONS STATED FOR CONTRACTORS. CONTRACTOR SHALL OBTAIN APPROVAL OF THE CONTRACTING AGENCY'S PROJECT MANAGER PRIOR TO USING A SUBCONTRACTOR ON ANY PROJECT.
16. RESTORE ALL DAMAGE TO PRIVATE PROPERTY, RIGHT-OF-WAY, ICN PROPERTY, AND ANY OTHER PROPERTY DAMAGED IN THE COURSE OF THE WORK.
  - 16.1. ANY DISRUPTION OF GRASS IN AN INDIVIDUAL'S YARD OR IN A PRIVATE MAINTAINED AREA OF THE PUBLIC RIGHT OF WAY (THE AREA BETWEEN THE SIDEWALK AND THE STREET CURB) MUST BE RESTORED THROUGH RE-SODDING. ANY DISRUPTION OF THE GRASS IN THE MEDIAN WAY OR AN UNIMPROVED SHOULDER MUST BE RESTORED EITHER THROUGH RE-SODDING OR RE-SEEDING AS REQUIRED BY THE ROW OWNER.
  - 16.2. AREAS SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION.
  - 16.3. DIRT SHALL BE MECHANICALLY COMPACTED AROUND HANDHOLES AND PITS.
  - 16.4. LAWNS SHALL BE SODDED WITH LIKE GRASS.
  - 16.5. CONTRACTOR IS RESPONSIBLE FOR WATERING THE SOD UNTIL IT HAS KNITTED TO THE GROUND BENEATH.
  - 16.6. ALL DEBRIS SHALL BE REMOVED FROM THE CONSTRUCTION AREAS INCLUDING BUT NOT LIMITED TO: CONSTRUCTION MATERIALS, TRASH, LARGE OBJECTS OR STONES WITHIN BACKFILLED AREAS, ETC.

DUCT INSTALLATION REQUIREMENTS

1. HDPE DUCT SHALL BE NO LESS THAN 36-42 INCHES DEEP.
2. DUCT SHALL BE INSTALLED IN THE PUBLIC RIGHT-OF-WAY.
3. WHEN CROSSING A HIGHWAY IN DOT RIGHT-OF-WAY, DUCT SHALL BE NO LESS THAN 48 INCHES BELOW GRADE UNDER THE ROADWAY AND SHOULDERS. HDPE MAY BE USED UNDER THE ROADWAY AND SHOULDERS IF INSTALLED AT A MINIMUM DEPTH OF 48".
4. SHOULD IT BE NECESSARY TO CROSS PRIVATE PROPERTY, THE CONTRACTOR MAY APPLY TO THE ICN FOR AN EXCEPTION, AND REQUEST PERMISSION TO SECURE AN EASEMENT. THE EASEMENT IS REQUIRED TO BE IN THE NAME OF ICN AND THE CONTRACTOR SHALL HAVE THE EASEMENT PREPARED BY A LAND SURVEYOR LICENSED IN THE STATE OF IOWA. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES UNLESS PREVIOUSLY AUTHORIZED BY THE ICN.
5. AT THE CONCLUSION OF THE PROJECT, PROVIDE AND LEAVE A PULL ROPE IN ALL DUCTS, CONDUITS AND PATHWAYS, INCLUDING INDOOR, OUTDOOR, NEW AND EXISTING.
6. DIRT SHALL BE MECHANICALLY COMPACTED AT ALL DUCT SPLICES, BORE PITS AND AROUND HANDHOLES.
7. GROUND SHALL BE RESTORED TO THE CONDITION FOUND PRIOR TO CONSTRUCTION AND DEBRIS REMOVED PRIOR TO SODDING OR SEEDING.
8. ALL CONDUITS SHALL BE PLUGGED VIA DUCT SEAL OR OTHER METHOD UPON COMPLETION OF CABLE INSTALLATION.
9. IF SCHEDULE 40 PVC CONDUIT IS UTILIZED, ALL ANGLES (45, 90 DEGREE OR OTHER) REQUIRE FITTINGS TO LONG SWEEP TO ACCOMMODATE MINIMUM CABLE BEND RADIUS.
10. THE ICN REQUIRES PICTURES BY THE CONTRACTOR AND/OR ON-SITE INSPECTION BY ICN STAFF PRIOR TO COMPLETION OF THE PROJECT WHERE PIPE AND FITTINGS ARE NOT EXPOSED; I.E. UNDERGROUND, BEHIND A WALL, ETC.

HANDHOLE REQUIREMENTS

1. INSTALL HANDHOLES SO THAT THE LID IS LEVEL AND FLUSH WITH THE SURROUNDING NATURAL GRADE. THE LID SHALL NOT EXTEND ABOVE THE SURROUNDING NATURAL GRADE.
2. PROVIDE ¼" OPENING HARDWARE CLOTH TYPE SCREEN WIRE BELOW THE HANDHOLE.
3. PROVIDE 5-6 INCHES OF ¾" CRUSHED ROCK BELOW THE HANDHOLE. ROCK SHALL BE COMPACTED. GRAVEL SHALL EXTEND A MINIMUM OF 6 INCHES BEYOND THE OUTSIDE WALLS OF THE HANDHOLE. DO NOT USE PEA GRAVEL OR OTHER ROUND STONE.
4. DO NOT PLACE GRAVEL INSIDE HANDHOLE ABOVE THE HARDWARE CLOTH.
5. CONDUIT SHALL EXTEND A MINIMUM OF 6" ABOVE THE HARDWARE CLOTH/GRAVEL.
6. FAILURE OF THE CONTRACTOR TO INSTALL HANDHOLES AS SPECIFIED WILL CAUSE THE CONTRACTOR TO RETURN AND RE-INSTALL THE HANDHOLE ACCORDING TO THIS SPECIFICATION BEFORE PAYMENT FOR THE PROJECT IS MADE.
7. HANDHOLE INSTALLATIONS SHALL FOLLOW ICN STANDARD TYPICAL INSTALLATION; SEE TYPICAL DRAWING.

FIBER INSTALLATION REQUIREMENTS

1. INSTALL FIBER ACCORDING TO INDUSTRY "BEST PRACTICES".
2. THE CONTRACTOR SHALL NOT VIOLATE THE MANUFACTURER'S MINIMUM INSTALLATION BEND RADIUS WHEN THE CABLE IS UNDER TENSION, OR THE MINIMUM INSTALLED BEND RADIUS.
3. TO PREVENT EXCEEDING THE MANUFACTURER'S MAXIMUM PULLING TENSION DURING INSTALLATION OF THE FIBER OPTIC CABLE, THE CONTRACTOR SHALL USE A "BREAK-AWAY" PULLING SWIVEL WHEN INSTALLING CABLE.
4. THE "BREAK-AWAY" FUNCTION SHALL ACTIVATE AT OR BELOW THE MAXIMUM PULLING TENSION SPECIFIED BY THE CABLE MANUFACTURER.
5. THE CONTRACTOR SHALL TEST ALL STRANDS OF THE FIBER, ON THE REEL, PRIOR TO BEGINNING FIBER INSTALLATION. CONFIRM THAT ALL STRANDS MEET MANUFACTURER'S LOSS SPECIFICATIONS.
6. THE CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS AND EXISTING CONDITIONS PRIOR TO STARTING CONSTRUCTION.
7. SLACK LOOPS IN HANDHOLES SHALL BE COILED, INSTALLED, AND SECURED TO AVOID DAMAGE TO THE COIL AND NOT INTERFERE WITH LIDS.
8. SLACK LOOPS AT SPLICES SHALL BE COILED TO MATCH THE EXISTING FIBER CABLE TAILS AND ALLOWANCE FOR SPLICE PREPARATION.
9. ICN FIBER IN ALL HANDHOLES SHALL BE LABELED WITH ICN WRAP AROUND CABLE TAGS OR OTHER LABELED CABLE TAGS.

BUILDING ENTRY REQUIREMENTS

1. WEATHER-SEAL ALL PENETRATIONS.
2. USE MORTAR OR SIMILAR CEMENT TO SEAL PENETRATION OF BRICK OR CEMENT BLOCK.
3. FIRESTOP PENETRATIONS OF ANY FIRE-RATED FLOOR, WALL OR CEILING.
4. REPLACE THE FIRESTOP MATERIAL IN ANY EXISTING FIRESTOPPED PENETRATION USED BY THE CONTRACTOR.
5. ALL OUTDOOR CONDUITS, OF ANY LENGTH, SHALL BE GALVANIZED IRON PIPE (GIP). EMT, PVC AND PLASTIC ARE PROHIBITED.
6. IMMEDIATELY UPON INSTALLATION, SEAL THE ENDS OF ALL DUCTS WITH DUCT SEAL OR EXPANSION FOAM TO PREVENT SILTATION OR FILLING WITH MOISTURE. THIS APPLIES TO BOTH NEW AND EXISTING DUCTS.
7. AT THE CONCLUSION OF THE PROJECT, ENSURE THAT A PULL ROPE IS LEFT IN ALL PATHWAYS, BOTH INSIDE AND OUTSIDE, NEW AND EXISTING.

LOCATE FACILITY REQUIREMENTS

1. TRACER WIRE SHALL BE CONTINUOUS.
2. SPLICES IN THE TRACER WIRE ARE NOT ALLOWED. IF TRACER WIRE IS ACCIDENTALLY SEVERED, REQUEST PERMISSION FROM ICN TO SPLICE.
3. SPLICE ONLY IN HANDHOLES.
4. USE EITHER AN EPOXY SPLICE KIT, SCOTCH 3M 3832 OR A MOLEX PERMASEAL BUTT SPLICE. 10-12 GA. SPLICE MATERIALS SHALL BE DESIGNED FOR UNDERGROUND APPLICATIONS.
5. LEAVE THE WIRE SPLICE VISIBLE IN THE HANDHOLE.
6. ROUTE A GROUND WIRE FROM THE GROUND INSIDE THE BUILDING, THROUGH THE ENTRY TO THE TII 163 TERMINAL.
7. SECURE ALL RISER CONDUITS WITH 3 EACH TWO-HOLE CONDUIT STRAPS.
8. WIRE THE PEDESTAL/TERMINAL SO THAT LOCATES MAY BE PERFORMED IN ANY DIRECTION AND FROM THE FAR END.
9. DO NOT LEAVE ANY EXPOSED TRACER WIRE OR GROUND WIRE.
10. PERMANENTLY GROUND THE TRACER WIRE AT THE HANDHOLE ON THE FURNISHED GROUND ROD.
11. AT THE CONCLUSION OF THE PROJECT LEAVE THE TRACER WIRE SHIELD SHORTED TO GROUND IN THE LOCATE TERMINAL.
12. USE TRACER WIRE THAT IS RATED FOR DIRECT BURIAL WHERE REQUIRED. TRACER WIRE SHALL BE #12 AWG, SOLID HF CCS 30 MIL HDPE HIGH FLEX TRACER WIRE: EITHER SOLID COPPER OR COPPER CLAD STEEL.
13. LABEL ALL WIRES IN THE LOCATE TERMINAL/PEDESTAL/TRIVIEW. (I.E. "GROUND", "FACING DMACC", "FACING NORTH" ETC.)
14. FAILURE TO LABEL THE LOCATE WIRES WILL CAUSE THE CONTRACTOR TO RETURN AND PROPERLY LABEL THE WIRES BEFORE PAYMENT FOR THE PROJECT IS MADE.
15. BOND TRACER WIRE(S) WITHIN SPLICE ENCLOSURES UTILIZING A 3M 4460-D\FO SHIELD BONDING KIT.
16. ROUTE TRACER WIRE(S) OUT OF SPLICE ENCLOSURE THROUGH A SINGLE PORT UTILIZING A FOSC CLOSURE SEALING KIT.
17. AT SPLICE LOCATIONS WITH NO LOCATE PEDESTAL, TRACER WIRES SHALL BE BONDED TOGETHER, WITHIN THE SPLICE ENCLOSURE.
18. AT EACH END OF ANY TRACER WIRE, USE APPROPRIATE-SIZED RING TERMINAL (CRIMP) CONNECTORS USING APPROPRIATE CRIMP TOOL; OR CREATE A WIRE EYELET AS PER TYPICAL INSTALLATION OF TRI-VIEW LOCATE PEDESTAL DETAIL.

DELIVERABLES/ACCEPTANCE:

1. CONTRACTOR SHALL PROVIDE CONSTRUCTION REDLINE AS-BUILTS WITH:
  - 1.1. OFFSETS TO FIXED OBJECTS TO THE CABLE/CONDUIT RUNNING LINE, HANDHOLES AND NEW FACILITIES.
  - 1.2. METER MARKS OF CABLE INSTALLATIONS AT HANDHOLE ENTRY/EXIT, SPLICE LOCATIONS, BUILDING ENTRIES, ETC.
  - 1.3. DEPTHS OF CABLE AND/OR CONDUIT INSTALLATION.
  - 1.4. ONE ORIGINAL SET OF AS-BUILT DRAWINGS MUST BE PROVIDED WITHIN TWO (2) WEEKS AFTER COMPLETION OF CONSTRUCTION FOR THE ICN MANAGEMENT RECORDS. REDLINE AS-BUILT DRAWINGS MUST BE COMPLETE.
2. CONTRACTOR SHALL PROVIDE SPLICING REDLINE OF ALL SPLICING COMPLETED AND VALIDATION THAT THE SPLICE PLAN WAS FOLLOWED.
3. CONTRACTOR IS RESPONSIBLE TO LOCATE FIBER UNTIL ACCEPTANCE BY THE ICN. ACCEPTANCE INCLUDES:
  - 3.1. SUBMISSION OF CONSTRUCTION AND SPLICING RED LINE DRAWINGS BY CONTRACTOR.
  - 3.2. ASSIGNMENT OF LINK NUMBER BY THE ICN (IF APPLICABLE).
  - 3.3. SUBMISSION OF FINAL AS BUILT DRAWING BY THE ICN TO THE ICN NETWORK MAINTENANCE PROVIDER.
  - 3.4. SUBMISSION TO IOWA ONE CALL AND THE ICN NETWORK MAINTENANCE PROVIDER'S CONTRACT LOCATER.
  - 3.5. THE MEASUREMENTS IN THE STATEMENT OF WORK ARE ESTIMATES AND NEED TO BE VERIFIED BY THE CONTRACTOR.
4. ONLY WRITTEN MODIFICATIONS TO THIS SCOPE OF WORK ARE BINDING - VERBAL CHANGES TO THIS SCOPE OF WORK BY ANY PERSON OR PERSONS ARE NOT BINDING, UNLESS CONFIRMED IN WRITING.
5. FINAL PAYMENT WILL NOT BE PROCESSED UNTIL ALL DELIVERABLES ARE RECEIVED AND ACCEPTED.



|  |                  |            |   |  |
|--|------------------|------------|---|--|
| MOUNT PLEASANT IOWA WESLEYAN FIBER RELOCATION FIBER INSTALLATION |                  |            |   |  |
| 1  | FOR 60% REVIEW   | 08/17/2023 | IOWA COMMUNICATIONS NETWORK<br>400 EAST 14TH STREET<br>GRIMES STATE OFFICE BUILDING<br>DES MOINES, IOWA 50319<br>ICN © 2021, COPY WITH PERMISSION |  |
| 2  | FOR 90% REVIEW   | 08/31/2023 |   |  |
| 3  | FOR PERMIT PLANS | 09/11/2023 |   |  |
| 4  |                  |            |   |  |

MATERIALS

| ICN PROVIDED MATERIALS |   |      |      |
|------------------------|---|------|------|
| CATEGORY               | ITEM DESCRIPTION                        | UNIT | QTY  |
| FIBER CABLE            | 48F ARMORED SM CABLE                    | LFT  | 5500 |
| LOCATE FACILITIES      | TRIVIEW WARNING MARKER                  | EA   | 1    |
| LOCATE FACILITIES      | TRIVIEW LOCATE PEDESTALS                | EA   | 2    |
| LOCATE FACILITIES      | ICN SNAP AROUND                         | EA   | 10   |
| FDP, BULKHEADS, TRAYS  | CORNING CCH-02U RACK MOUNT FDP          | EA   | 1    |
| FDP, BULKHEADS, TRAYS  | CORNING CCH 12f SM D-SC CASSETTE LOADED | EA   | 4    |
| SPLICE CLOSURE         | *450B SPLICE CLOSURE                    | EA   | 3    |
| SPLICE TRAY            | *B TRAY 24-POS                          | EA   | 5    |
| SHIELD BOND CONNECTOR  | *SHIELD BOND CONNECTOR                  | EA   | 8    |
| SEALING KIT            | *FOSC CLOSURE SEALING KIT               | EA   | 3    |

| CONTRACTOR SUPPLIED MATERIALS |                                      |      |      |
|-------------------------------|--------------------------------------|------|------|
| CATEGORY                      | ITEM DESCRIPTION                     | UNIT | QTY  |
| DUCT                          | 2" ORANGE HDPE DUCT                  | LFT  | 5300 |
| HANDHOLES                     | 24X36X36 TIER 15 HH W/LID            | EA   | 5    |
| LOCATE FACILITIES             | 6 AWG BARE SOLID COPPER GROUND WIRE  | LFT  | 20   |
| LOCATE FACILITIES             | 12 AWG HDPE ORANGE SOLID COPPER WIRE | LFT  | 350  |
| LOCATE FACILITIES             | 1/2" X 6' GROUND ROD                 | EA   | 4    |
| LOCATE FACILITIES             | 1/2" GROUND ROD CLAMP                | EA   | 4    |

| ESTIMATE OF QUANTITIES |                                    |      |               |                |
|------------------------|------------------------------------|------|---------------|----------------|
| ITEM NO.               | ITEM                               | UNIT | PLANNED TOTAL | AS-BUILT TOTAL |
| 1                      | MOBILIZATION                       | LS   | 1             |                |
| 2                      | INSTALL 24" X 36" X 36" HANDHOLE   | EA   | 5             |                |
| 3                      | 1-2" CONDUIT                       | LF   | 4227          |                |
| 4                      | 2-2" CONDUIT                       | LF   | 434           |                |
| 5                      | 48 SM ARMORED FIBER (TOTAL)        | LF   | 5300          |                |
| 6                      | 48 SM ARMORED FIBER (RUNNING LINE) | LF   | 4650          |                |
| 7                      | 48 SM ARMORED FIBER (COIL)         | LF   | 650           |                |
| 8                      | TYCO 450B SPLICE ENCLOSURE         | EA   | 3             |                |

NOTE: CONDUIT INSTALLATION METHOD SHALL BE BORED UNDER ANY ROADWAYS, DRIVEWAYS, AND PAVED SURFACES. THE METHOD BETWEEN PLOW VERSUS BORE FOR CONDUIT INSTALLATION IS AT THE CONTRACTORS DISCRETION.

**NOTE ON HDPE CONDUIT AND SPLICES:**

- HDPE SHALL BE ORANGE SMOOTH WALL SDR 13.5
- DUCT SPLICES SHALL BE MADE OF THE FOLLOWING (IN ORDER OF PREFERENCE.)
  - ELECTROFUSION
  - CRIMP ON
  - CLAMP ON / BOLT ON (SPLIT COUPLINGS)
  - PUSH ON
- ALL SPLICES SHALL BE AIR AND WATER TIGHT
- DUCT SPLICES SHALL BE OF A TYPE MADE SPECIFICALLY FOR JOINING HDPE CONDUIT
- ALL DUCT SPLICES SHALL BE MADE IN SUCH MANNER AS TO ALLOW CONTINUOUS PULLING OF CABLE THROUGH DUCT.

**NOTE ON OSP FIBER CABLE**

Single Mode, Single Armor, Gel Free, Loose Tube OSP cable (12-strand minimum, refer to Materials)  
 Tensile Strength: 600 lb short term  
 Attenuation: 0.35/0.25 dB at 1310/1440 nm

**NOTE ON HANDHOLE(S):**

Polymer Concrete (Quazite, New Basis, Martin, e.g.) 24"x36"x30" Tier 15  
 Hybrid Polymer Concrete - Fiberglass (Oldcastle FRP, e.g.) 24"x36"x30" Tier 15

**\*NOTE ON CONTRACTOR PROVIDED MATERIAL(S):**

Contractor shall supply all other materials required for proper installation, including but not limited to: HDPE, Duct Splices, Grounding and Tracer Wires, Rock, Wire Mesh, etc.

ANY EXCEPTIONS MUST BE AGREED UPON IN WRITING PRIOR TO CONSTRUCTION.

| LISTING OF CONDUIT & FIBER WORK |                   |                   |        |            |                                  |
|---------------------------------|-------------------|-------------------|--------|------------|----------------------------------|
| CONDUIT RUN                     | FROM              | TO                | LENGTH | 2" CONDUIT | 48 SM ARMORED FIBER, UNDERGROUND |
| 1                               | PROP. ICN SHELTER | HH1               | 434    | 868        | 434                              |
| 2                               | HH1               | HH2               | 1743   | 1743       | 1743                             |
| 3                               | HH2               | HH3               | 1511   | 1511       | 1511                             |
| 4                               | HH3               | HH4               | 589    | 589        | 589                              |
| 5                               | HH4               | HH5               | 365    | 365        | 365                              |
| 6                               | HH4               | EX. WINDSTREAM HH | 8      | 8          | 8                                |
| 7                               | HH5               | IRHTP RISER       | 11     | 11         | 0                                |
| TOTAL                           |                   |                   | 4661   | 5095       | 4650                             |

NOTE: THIS TABLE SHOWS APPROXIMATE LENGTHS IN CONDUIT ONLY AND DOES NOT INCLUDE ANY COILS OR SLACK FOR FINER CABLES, TRACER WIRE, PULL ROPE, ETC. CONTRACTOR SHALL VERIFY NECESSARY QUANTITIES INCLUDING COILS.

| LISTING OF HANDHOLE WORK |                 |                |         |                          |
|--------------------------|-----------------|----------------|---------|--------------------------|
| HANDHOLE LABEL           | HANDHOLE TYPE   | ROUTE          | STATION | 48 SM ARMORED FIBER COIL |
| PROP ICN SHELTER         | ICN SHELTER     | W COURTLAND ST | 0+00    | 50                       |
| HH1                      | 24" X 36" X 36" | W COURTLAND ST | 4+34    | 150                      |
| HH2                      | 24" X 36" X 36" | W COURTLAND ST | 21+77   | 100                      |
| HH3                      | 24" X 36" X 36" | W COURTLAND ST | 36+88   | 100                      |
| HH4                      | 24" X 36" X 36" | W BROAD ST     | 42+77   | 225                      |
| HH5                      | 24" X 36" X 36" | JACKSON ST     | 46+42   | 75                       |
| TOTAL                    |                 |                |         | 650                      |



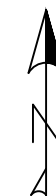
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|--|------------------|------------|---|--|
| MOUNT PLEASANT IOWA WESLEYAN FIBER RELOCATION FIBER INSTALLATION |                  |            |   |  |
| 1  | FOR 60% REVIEW   | 08/17/2023 | IOWA COMMUNICATIONS NETWORK<br>400 EAST 14TH STREET<br>GRIMES STATE OFFICE BUILDING<br>DES MOINES, IOWA 50319<br>ICN © 2021, COPY WITH PERMISSION |  |
| 2  | FOR 90% REVIEW   | 08/31/2023 |   |  |
| 3  | FOR PERMIT PLANS | 09/11/2023 |   |  |
| 4  |                  |            |   |  |





OVERALL SHEET LAYOUT

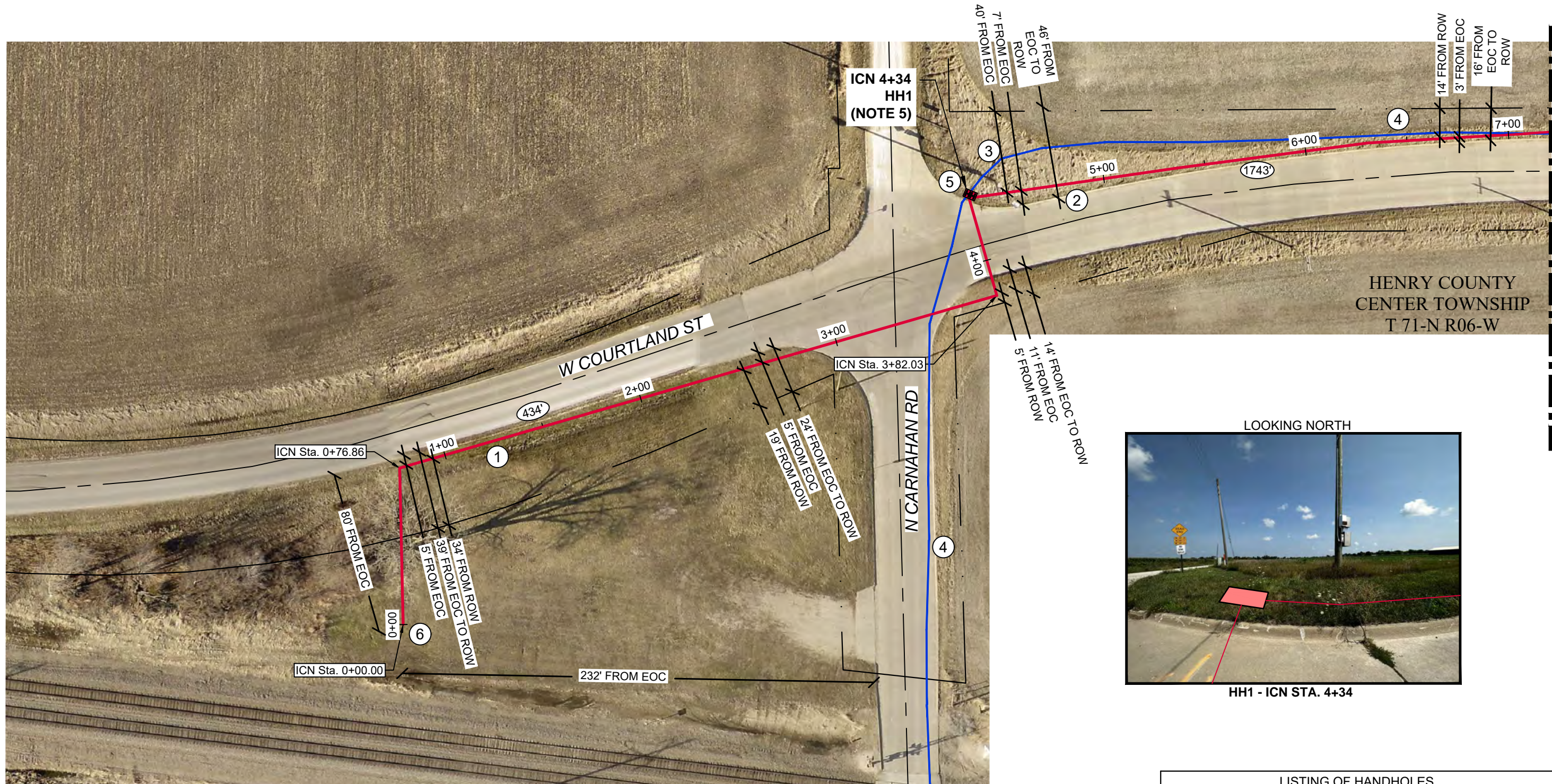


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T 71 N R 06 W



|   |                  |            |   |
|---|------------------|------------|---|
| MOUNT PLEASANT IOWA WESLEYAN FIBER RELOCATION<br>FIBER INSTALLATION |                  |            |   |
| 1   | FOR 60% REVIEW   | 08/17/2023 |   |
| 2   | FOR 90% REVIEW   | 08/31/2023 |   |
| 3   | FOR PERMIT PLANS | 09/11/2023 |   |
| 4   |                  |            | IOWA COMMUNICATIONS NETWORK<br>400 EAST 14TH STREET<br>GRIMES STATE OFFICE BUILDING<br>DES MOINES, IOWA 50319<br>ICN © 2021, COPY WITH PERMISSION                           |





MATCH LINE SEE SHEET 7

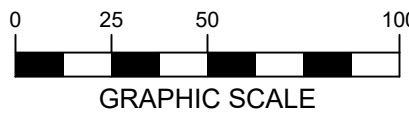
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T 71-N R06-W



HH1 - ICN STA. 4+34

- ① PULL NEW LINK 1629 48 F/A SM THROUGH 1 OF NEW 2-2" HDPE CONDUIT. 48" MINIMUM BELOW GRADE.
- ② PULL NEW LINK 1630 48 F/A SM THROUGH NEW 2" HDPE CONDUIT. 48" MINIMUM BELOW GRADE.
- ③ CONTRACTOR SHALL EXPOSE APPROX. 60' OF EXISTING ICN DIRECT BURIED FIBER CABLE LINK 1607-4FA FROM HH1 TO THE EDGE OF FIELD FOR THE CUTOVER.
- ④ EXISTING ICN LINK 1607-4FA. PROTECT IN PLACE UNTIL CUTOVER.
- ⑤ ICN STA. 4+34 PROPOSED ICN HANDHOLE - HH1 OVER EXISTING ICN DIRECT BURIED CABLE LINK 1607-4FA AT APPROX DETPH 4FT - PROTECT WITH SPLIT CONDUIT UNDERNEATH NEW HH. LINKS 1629/1630 48FA 150' COIL FOR MIDSHEATH SPLICE LS563 - TYCO 450B. TRIVIEW LOCATE POINT PER TYPICAL 3-#12 TRACERS 50' EACH.
- ⑥ INTALL 90 DEGREE LONG SWEEPS AND 2-2" RISER TO EXISTING PULL BOX ON THE NEW ICN SHELTER - ICN STA. 0+00. SPLICER TO INSTALL RACK MOUNT PANEL (CCH-02U) IN SHELTER. LINK 1629 48F/A SM - 50' SLACK INSIDE SHELTER FOR TERMINATIONS.
- ⑦ OTHER UTILITY PROVIDERS IN AREA. STAY 36" CLEAR FROM ALL EXISTING UTILITIES.

NOTE: RUNNING LINE TO BE ADJUSTED PER UTILITY LOCATES. CONTACT THE ICN AND MOUNT PLEASANT PUBLIC WORKS TO ADJUST RUNNING LINE.



| LISTING OF HANDHOLES |         |          |         |           |
|----------------------|---------|----------|---------|-----------|
| HANDHOLE             | STATION | HANDHOLE | STATION | LENGTH FT |
| PROP. ICN SHELTER    | 0+00    | HH1      | 4+34    | 434       |
| HH1                  | 4+34    | HH2      | 21+77   | 1743      |
| TOTAL                |         |          |         | 2177      |

\* LENGTH DOES NOT INCLUDE SLACKCOILS

MOUNT PLEASANT IOWA WESLEYAN FIBER RELOCATION FIBER INSTALLATION

|   |                  |            |
|---|------------------|------------|
| 1 | FOR 60% REVIEW   | 08/17/2023 |
| 2 | FOR 90% REVIEW   | 08/31/2023 |
| 3 | FOR PERMIT PLANS | 09/11/2023 |
| 4 |                  |            |

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LOOKING WEST

LOOKING WEST

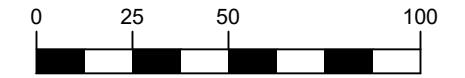
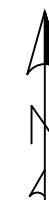
- ① PULL NEW LINK 1630 48 F/A SM THROUGH NEW 2" HDPE CONDUIT. 48" MINIMUM BELOW GRADE.
- ② EXISTING ICN LINK 1607-4fA. PROTECT IN PLACE UNTIL CUTOVER.
- ③ OTHER UTILITY PROVIDERS IN AREA. STAY 36" CLEAR FROM ALL EXISTING UTILITIES.



ICN STA. 12+00



ICN STA. 13+50



GRAPHIC SCALE

| LISTING OF HANDHOLES |         |          |         |           |
|----------------------|---------|----------|---------|-----------|
| HANDHOLE             | STATION | HANDHOLE | STATION | LENGTH FT |
| HH1                  | 4+34    | HH2      | 21+77   | 1743      |
| TOTAL                |         |          |         | 1743      |

\* LENGTH DOES NOT INCLUDE SLACKCOILS

NOTE: RUNNING LINE TO BE ADJUSTED PER UTILITY LOCATES. CONTACT THE ICN AND MOUNT PLEASANT PUBLIC WORKS TO ADJUST RUNNING LINE.



MOUNT PLEASANT IOWA WESLEYAN FIBER RELOCATION FIBER INSTALLATION

|   |                  |            |
|---|------------------|------------|
| 1 | FOR 60% REVIEW   | 08/17/2023 |
| 2 | FOR 90% REVIEW   | 08/31/2023 |
| 3 | FOR PERMIT PLANS | 09/11/2023 |
| 4 |                  |            |

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MATCH LINE SEE SHEET 7

MATCH LINE SEE SHEET 9

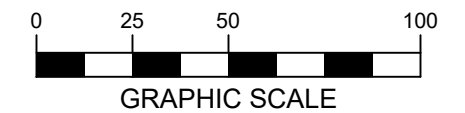
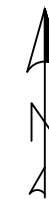


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- ① PULL NEW LINK 1630 48 F/A SM THROUGH NEW 2" HDPE CONDUIT.  
48" MINIMUM BELOW GRADE.
- ② ICN STA. 21+77 INSTALL PROPOSED 24"x36"x36" ICN HANDHOLE - HH2. LINK 1630 100' SLACK COIL 48 F/A SM.
- ③ EXISTING ICN LINK 1607-4fA. PROTECT IN PLACE UNTIL CUTOVER.
- ④ OTHER UTILITY PROVIDERS IN AREA. STAY 36" CLEAR FROM ALL EXISTING UTILITIES.



HH2 - ICN STA. 21+77



| LISTING OF HANDHOLES |         |          |         |           |
|----------------------|---------|----------|---------|-----------|
| HANDHOLE             | STATION | HANDHOLE | STATION | LENGTH FT |
| HH1                  | 4+34    | HH2      | 21+77   | 1743      |
| HH2                  | 21+77   | HH3      | 36+88   | 1511      |
| TOTAL                |         |          |         | 3254      |

\* LENGTH DOES NOT INCLUDE SLACKCOILS

NOTE: RUNNING LINE TO BE ADJUSTED PER UTILITY LOCATES. CONTACT THE ICN AND MOUNT PLEASANT PUBLIC WORKS TO ADJUST RUNNING LINE.



MOUNT PLEASANT IOWA WESLEYAN FIBER RELOCATION FIBER INSTALLATION

|   |                  |            |
|---|------------------|------------|
| 1 | FOR 60% REVIEW   | 08/17/2023 |
| 2 | FOR 90% REVIEW   | 08/31/2023 |
| 3 | FOR PERMIT PLANS | 09/11/2023 |
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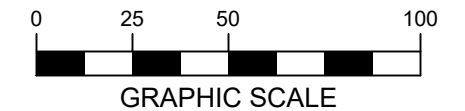


- ① PULL NEW LINK 1630 48 F/A SM THROUGH NEW 2" HDPE CONDUIT.  
48" MINIMUM BELOW GRADE.
- ② BORE MIN. DEPTH OF 3' BELOW BOTTOM OF CULVERT AND BELOW EXISTING ICN LINK 1607-f4A WHICH IS APPROXIMATELY AT 13-14' DEPTH. (ICN STA. 29+75).
- ③ BORE MIN. DEPTH OF 3' BELOW BOTTOM OF INLET WHICH IS APPROXIMATELY AT 4.5' DEPTH. (ICN STA. 23+00).
- ④ EXISTING ICN LINK 1607-4fA. PROTECT IN PLACE UNTIL CUTOVER.
- ⑤ OTHER UTILITY PROVIDERS IN AREA. STAY 36" CLEAR FROM ALL EXISTING UTILITIES.

NOTE: RUNNING LINE TO BE ADJUSTED PER UTILITY LOCATES. CONTACT THE ICN AND MOUNT PLEASANT PUBLIC WORKS TO ADJUST RUNNING LINE.





LOOKING WEST



| LISTING OF HANDHOLES |         |          |         |           |
|----------------------|---------|----------|---------|-----------|
| HANDHOLE             | STATION | HANDHOLE | STATION | LENGTH FT |
| HH2                  | 21+77   | HH3      | 36+88   | 1511      |
| TOTAL                |         |          |         | 1511      |

\* LENGTH DOES NOT INCLUDE SLACKCOILS

MOUNT PLEASANT IOWA WESLEYAN FIBER RELOCATION FIBER INSTALLATION  

|   |                  |            |
|---|------------------|------------|
| 1 | FOR 60% REVIEW   | 08/17/2023 |
| 2 | FOR 90% REVIEW   | 08/31/2023 |
| 3 | FOR PERMIT PLANS | 09/11/2023 |
| 4 |                  |            |

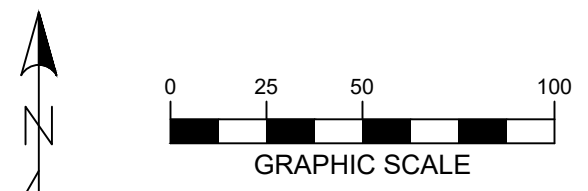
IOWA COMMUNICATIONS NETWORK  
400 EAST 14TH STREET  
GRIMES STATE OFFICE BUILDING  
DES MOINES, IOWA 50319  
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MATCH LINE SEE SHEET 11



- ① PULL NEW LINK 1630 48 F/A SM THROUGH NEW 2" HDPE CONDUIT.  
48" MINIMUM BELOW GRADE.
- ② ICN STA. 36+88 INSTALL PROPOSED 24"x36"x36" ICN HANDHOLE - HH3. LINK 1630 100' SLACK COIL 48 F/A SM.
- ③ EXISTING ICN LINK 1607-4fa. PROTECT IN PLACE UNTIL CUTOVER.
- ④ OTHER UTILITY PROVIDERS IN AREA. STAY 36" CLEAR FROM ALL EXISTING UTILITIES.



| LISTING OF HANDHOLES |         |          |         |           |
|----------------------|---------|----------|---------|-----------|
| HANDHOLE             | STATION | HANDHOLE | STATION | LENGTH FT |
| HH2                  | 21+77   | HH3      | 36+88   | 1511      |
| HH3                  | 36+88   | HH4      | 42+77   | 589       |
| TOTAL                |         |          |         | 2100      |

\* LENGTH DOES NOT INCLUDE SLACKCOILS

NOTE: RUNNING LINE TO BE ADJUSTED PER UTILITY LOCATES. CONTACT THE ICN AND MOUNT PLEASANT PUBLIC WORKS TO ADJUST RUNNING LINE.



MOUNT PLEASANT IOWA WESLEYAN FIBER RELOCATION FIBER INSTALLATION

|   |                  |            |
|---|------------------|------------|
| 1 | FOR 60% REVIEW   | 08/17/2023 |
| 2 | FOR 90% REVIEW   | 08/31/2023 |
| 3 | FOR PERMIT PLANS | 09/11/2023 |
| 4 |                  |            |

**hbk** **ICN**

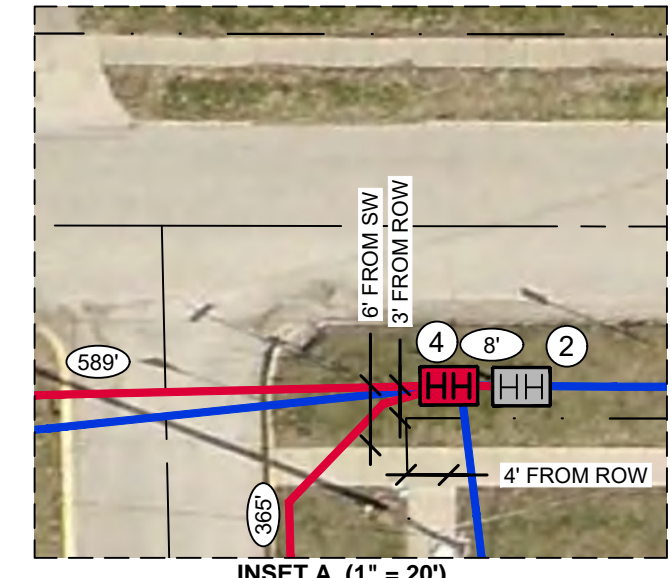
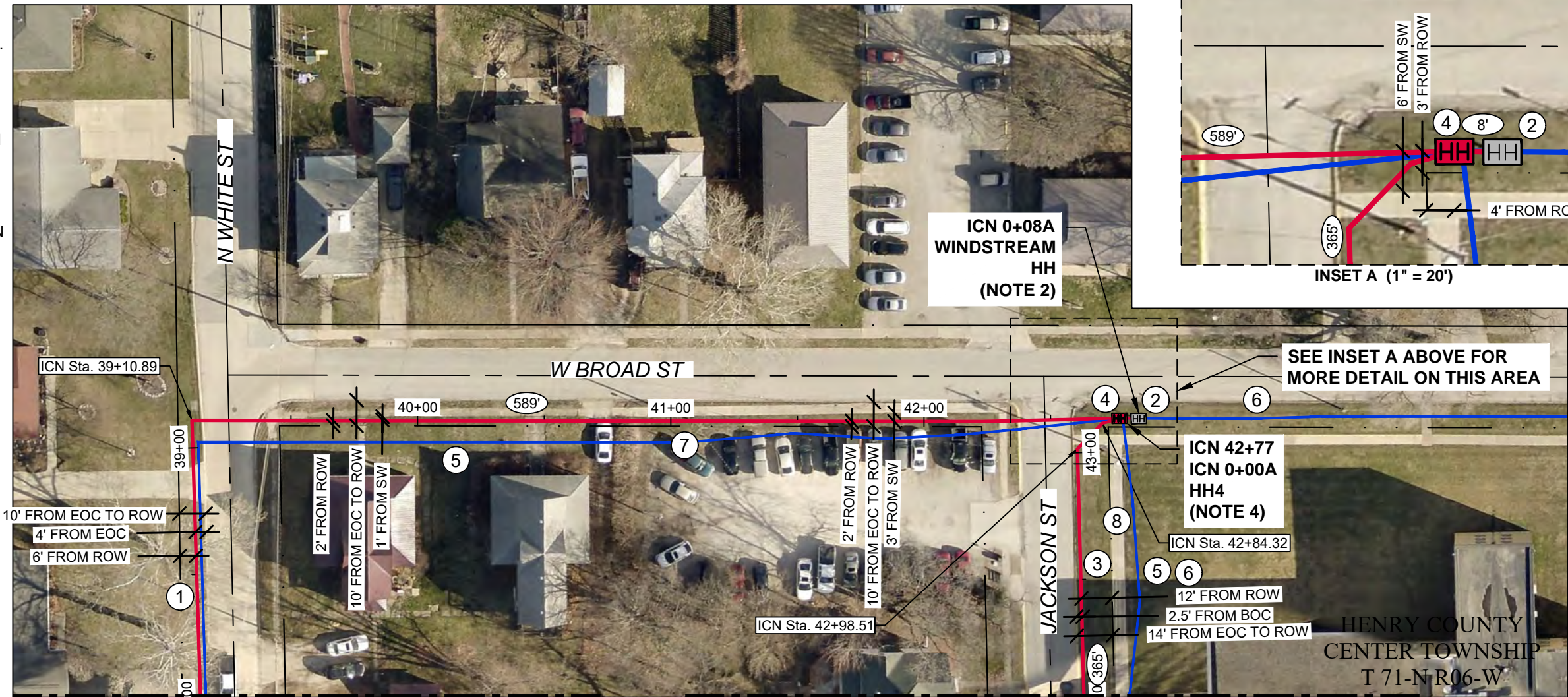
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- ① PULL NEW LINK 1630 48 F/A SM THROUGH NEW 2" HDPE CONDUIT. 48" MINIMUM BELOW GRADE.
- ② PULL NEW 48 F/A SM THROUGH NEW 2" HDPE CONDUIT BETWEEN ICN HH STA 42+77 / 0+00A TO WINDSTREAM HH 0+08A. LEAVE 75' OF SLACK IN EACH HH FOR SPLICING (TOTAL CABLE LENGTH 160') 48" MINIMUM BELOW GRADE.
- ③ PULL NEW LINK 1631 48 F/A SM THROUGH NEW 2" HDPE CONDUIT. 48" MINIMUM BELOW GRADE.
- ④ ICN STA. 42+77 PROPOSED 24"X36"X36" ICN HANDHOLE - HH4 OVER EXISTING ICN DIRECT BURIED CABLE LINK 1607-4fA AND LINK 1606-12fA - PROTECT WITH SPLIT CONDUIT UNDERNEATH NEW HH. EXISTING ICN HH COULD NOT BE LOCATED - IF FOUND REMOVE. EXPOSE EXISTING SOUTHBOUND CONDUITS. ENTER EXISTING ICN SOUTH, EAST AND WEST BOUND CONDUITS INTO HH. ICN LINK 1606-12fA TO BE CUT AT BUILDING ENTRANCE TO 600 JACKSON ST AND PULLED BACK AT HH DURING HOT CUT. LEAVE ICN LINK 1607-4fA IN PLACE. LINKS 1630/1631 48fA 150' COIL FOR MIDSHEATH SPLICE LS564 - TYCO 450B. LOCATE POINT: TRIVIEW WITH GROUND ROD AND 3-#12 TRACER WIRES - LEAVE 50' COILS FOR EACH DIRECTION.
- ⑤ EXISTING ICN LINK 1607-4fA. PROTECT IN PLACE UNTIL CUTOVER.
- ⑥ EXISTING ICN LINK 1606-12fA. PROTECT IN PLACE.
- ⑦ 2' FROM SW. STAY ON SOUTH SIDE OF UTILITY POLE.
- ⑧ SEE PAGE 13 FOR MORE DETAIL ON EXISTING ICN ALONG JACKSON ST.
- ⑨ OTHER UTILITY PROVIDERS IN AREA. STAY 36" CLEAR FROM ALL EXISTING UTILITIES.



NOTE: RUNNING LINE TO BE ADJUSTED PER UTILITY LOCATES. CONTACT THE ICN AND MOUNT PLEASANT PUBLIC WORKS TO ADJUST RUNNING LINE.



MATCH LINE SEE SHEET 10

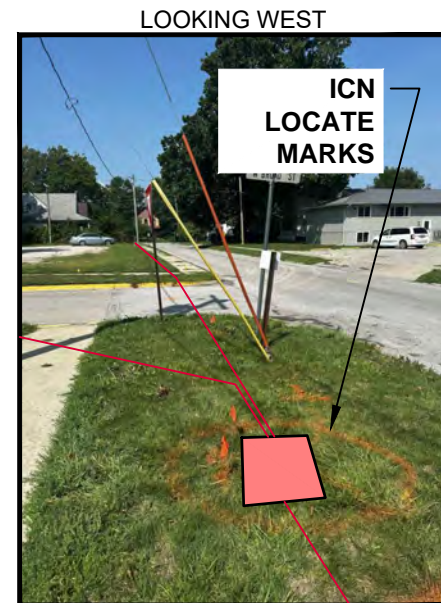
MATCH LINE SEE SHEET 12



ICN STA. 39+11



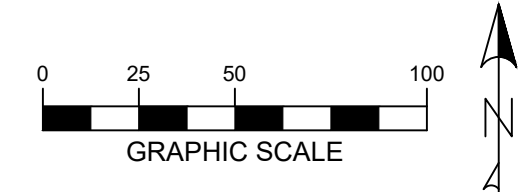
ICN STA. 41+25



HH4 - ICN STA. 42+77



HH4 - ICN STA. 42+77



| LISTING OF HANDHOLES |         |          |         |           |
|----------------------|---------|----------|---------|-----------|
| HANDHOLE             | STATION | HANDHOLE | STATION | LENGTH FT |
| HH3                  | 36+88   | HH4      | 42+77   | 589       |
| HH4                  | 42+77   | HH5      | 46+42   | 365       |
| HH4                  | 0+00A   | WND HH   | 0+08A   | 8         |
| TOTAL                |         |          |         | 962       |

\* LENGTH DOES NOT INCLUDE SLACKCOILS

MOUNT PLEASANT IOWA WESLEYAN FIBER RELOCATION FIBER INSTALLATION

|   |                  |            |  |
|---|------------------|------------|--|
| 1 | FOR 60% REVIEW   | 08/17/2023 | <p>IOWA COMMUNICATIONS NETWORK<br/>400 EAST 14TH STREET<br/>GRIMES STATE OFFICE BUILDING<br/>DES MOINES, IOWA 50319<br/>ICN © 2021, COPY WITH PERMISSION</p> |
| 2 | FOR 90% REVIEW   | 08/31/2023 |  |
| 3 | FOR PERMIT PLANS | 09/11/2023 |  |
| 4 |                  |            |  |



MATCH LINE SEE SHEET 11

LOOKING NORTH



HH5 - ICN STA. 46+42

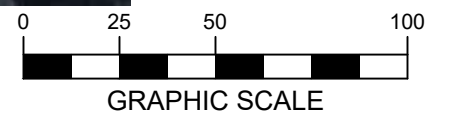
LOOKING NORTH



HH5 - ICN STA. 46+42



600 JACKSON ST  
HENRY COUNTY  
CENTER TOWNSHIP  
T 7 N R 06 W



- ① PULL NEW LINK 1631 48 F/A THROUGH NEW 2" HDPE CONDUIT. 48" MINIMUM BELOW GRADE.
- ② ICN STA. 46+42 INSTALL PROPOSED 24"x36"x36" ICN HANDHOLE - HH5 OVER EXISTING UPN CONDUIT. ACCESS EXISTING UPN CONDUIT APPROX DEPTH 4±. LINK 1631 48f A 75' COIL FOR BUTT SPLICE LS565 - TYCO 450B. GROUND #12 TRACER WIRE 50' FOR NEW LINK 1631. GROUND #12 TRACER WIRE TO RISER POLE. UPN AND IRHTP CABLE TO BE CUT AT HH TO EAST AND PULLED BACK FOR SPlicing DURING HOT CUT.
- ③ NEW 2" HDPE CONDUIT TO INTERCEPT EXISTING IRHTP AT RISER. IRHTP CABLE TO BE CUT AT HH TO EAST AND PULLED BACK TO ICN HH5 FOR SPlicing DURING HOT CUT. CONTRACTOR TO REMOVE/REPLACE RISER FOR RE-ROUTING IN NEW CONDUIT. NEW #12 TRACER WIRE FROM RISER TO LOCATE PUCK TO HH5 AND GROUND TO NEW GROUND ROD. 48" MINIMUM BELOW GRADE.

- ④ EXISTING ICN LINKS 1607-4fA AND 1606-12fA. PROTECT IN PLACE UNTIL CUTOVER.
- ⑤ 30" FROM CURB. STAY WEST OF TRANSFORMER PAD.
- ⑥ EXISTING HH WITH IRHTP AND UPN CABLES; LOCATION TO CUT CABLES FOR CUTOVER.
- ⑦ EXPOSE EXISTING HH TO VERIFY CONDUITS AND DETERMINE IF LINK 1606-12fA CAN BE PULLED BACK TO HH 4. LOCATION TO CUT LINK 1606-12FA DURING CUTOVER
- ⑧ SEE PAGE 13 FOR MORE DETAIL ON EXISTING ICN ALONG JACKSON ST.
- ⑨ OTHER UTILITY PROVIDERS IN AREA. STAY 36" CLEAR FROM ALL EXISTING UTILITIES.

| LISTING OF HANDHOLES |         |             |         |           |
|----------------------|---------|-------------|---------|-----------|
| HANDHOLE             | STATION | HANDHOLE    | STATION | LENGTH FT |
| HH 4                 | 42+77   | HH5         | 46+42   | 365       |
| HH 5                 | 46+42   | IRHTP RISER | 46+53   | 11        |
| TOTAL                |         |             |         | 376       |

\* LENGTH DOES NOT INCLUDE SLACKCOILS

NOTE: RUNNING LINE TO BE ADJUSTED PER UTILITY LOCATES. CONTACT THE ICN AND MOUNT PLEASANT PUBLIC WORKS TO ADJUST RUNNING LINE.



MOUNT PLEASANT IOWA WESLEYAN FIBER RELOCATION FIBER INSTALLATION

|   |                  |            |
|---|------------------|------------|
| 1 | FOR 60% REVIEW   | 08/17/2023 |
| 2 | FOR 90% REVIEW   | 08/31/2023 |
| 3 | FOR PERMIT PLANS | 09/11/2023 |
| 4 |                  |            |

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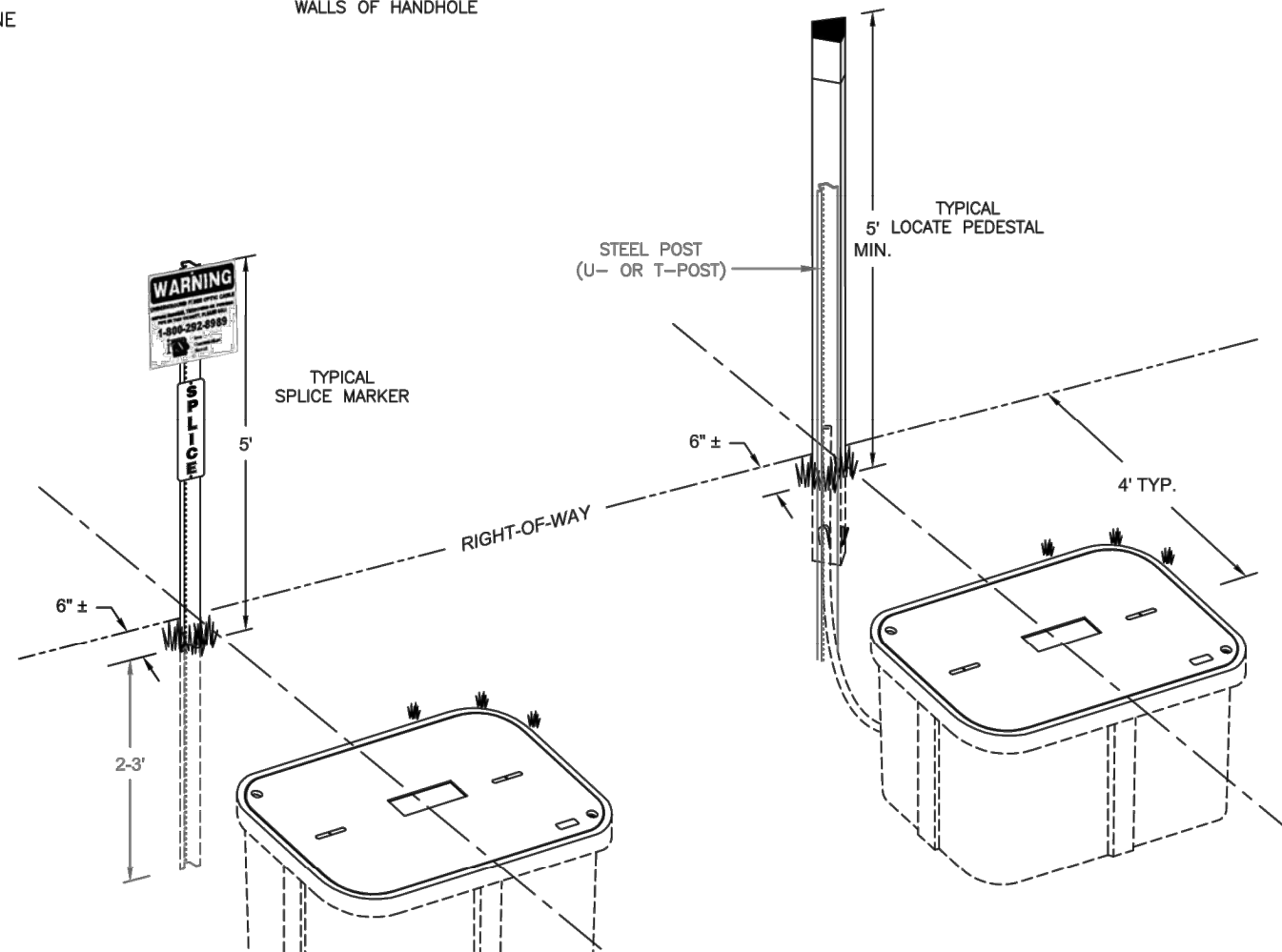
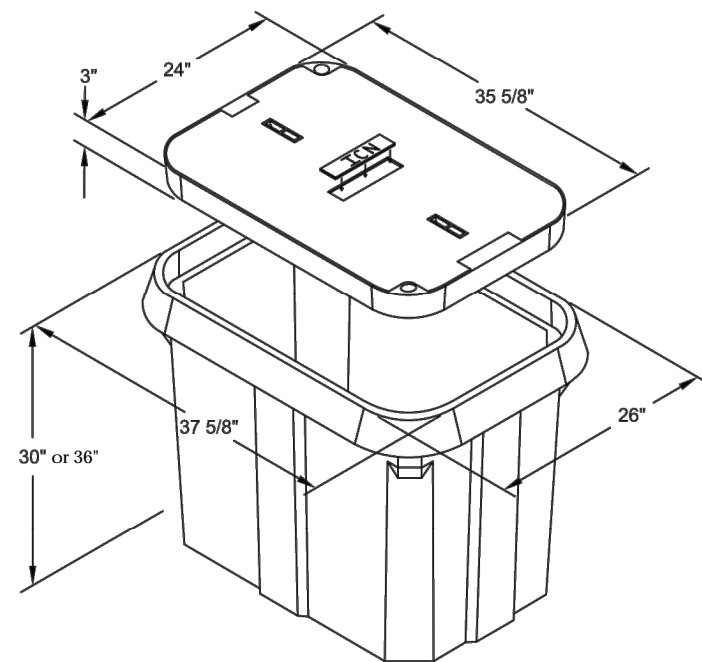
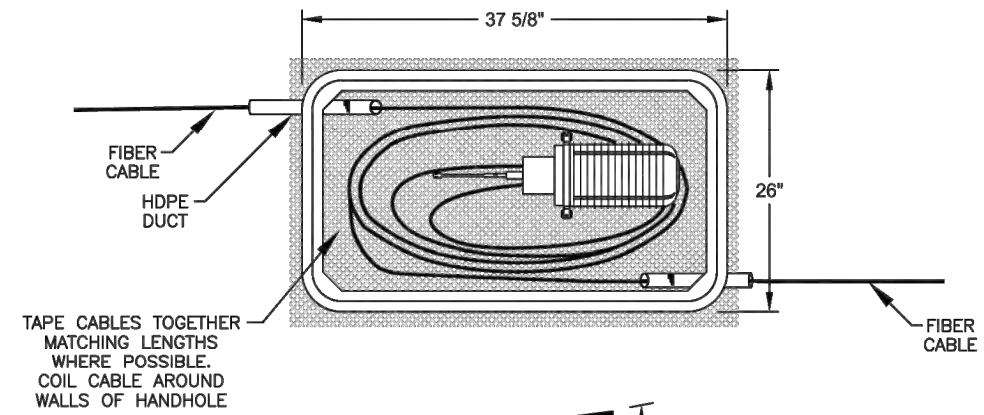
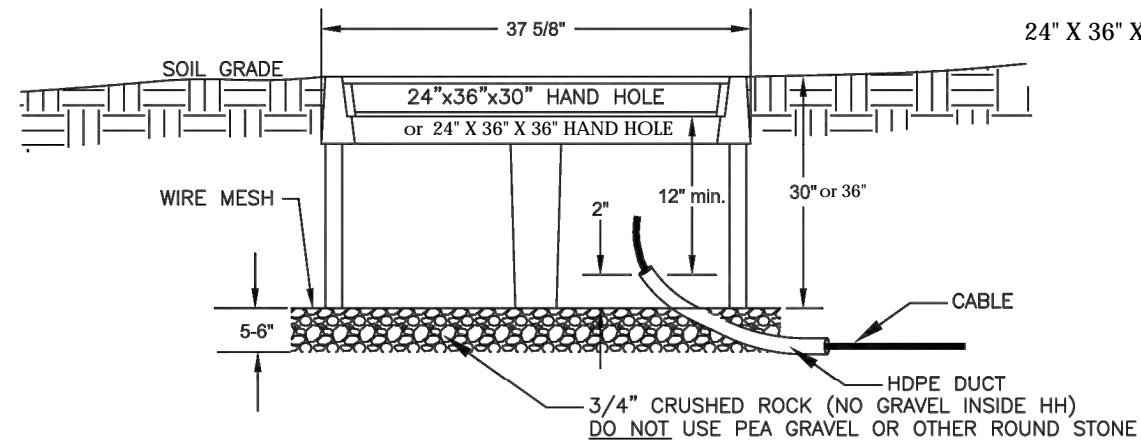






# HANDHOLE PLACEMENT TYPICAL

24" X 36" X 30" HAND HOLE  
OR  
24" X 36" X 36" HAND HOLE



MOUNT PLEASANT IOWA WESLEYAN FIBER RELOCATION  
FIBER INSTALLATION

|   |                  |            |
|---|------------------|------------|
| 1 | FOR 60% REVIEW   | 08/17/2023 |
| 2 | FOR 90% REVIEW   | 08/31/2023 |
| 3 | FOR PERMIT PLANS | 09/11/2023 |
| 4 |                  |            |

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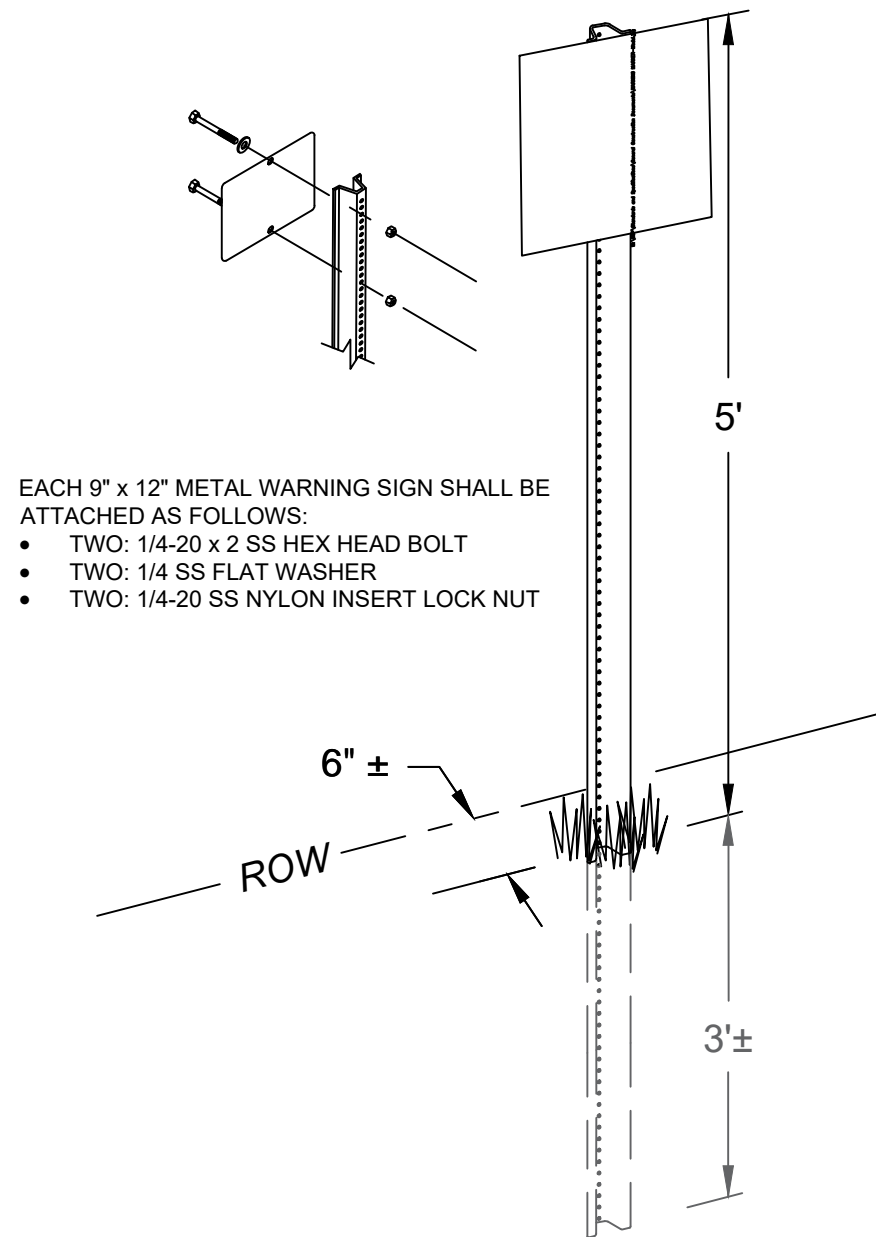


# WARNING MARKER INSTALLATION DETAIL

METAL SIGN & U-CHANNEL POST

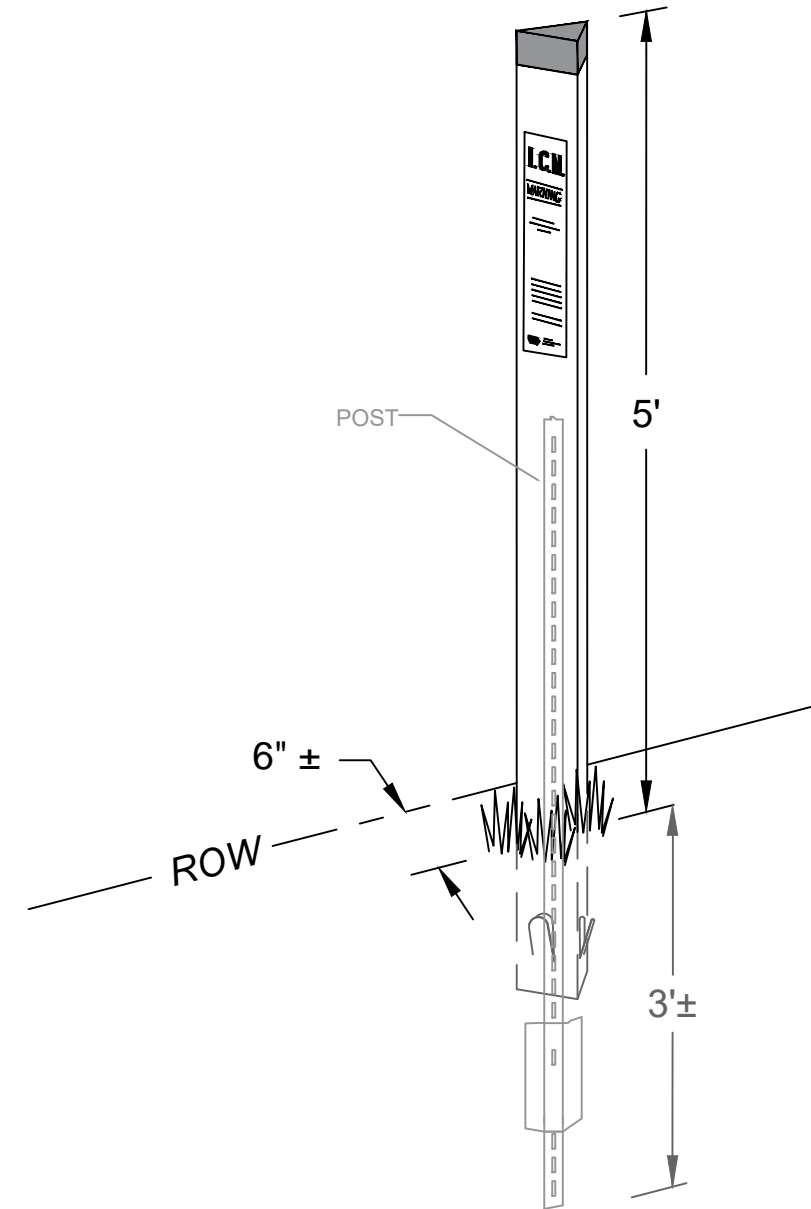
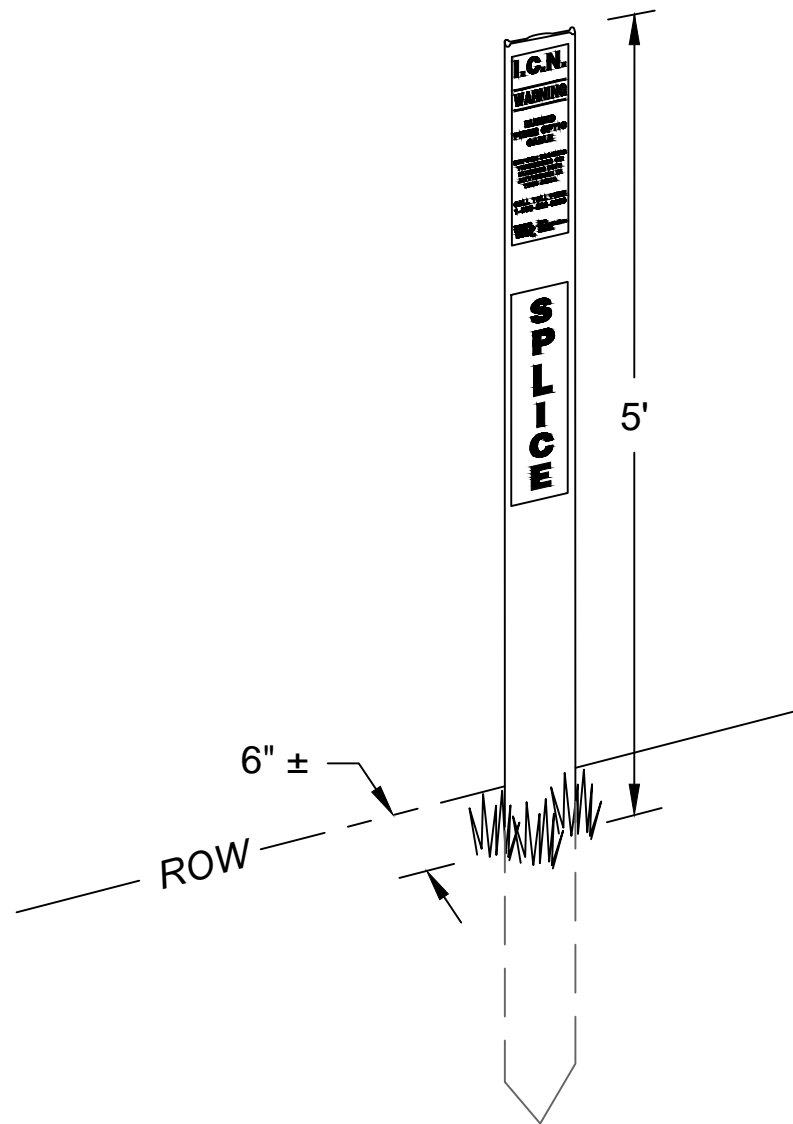
FIBERGLASS MARKER

TRIVIEW MARKER



EACH 9" x 12" METAL WARNING SIGN SHALL BE ATTACHED AS FOLLOWS:

- TWO: 1/4-20 x 2 SS HEX HEAD BOLT
- TWO: 1/4 SS FLAT WASHER
- TWO: 1/4-20 SS NYLON INSERT LOCK NUT



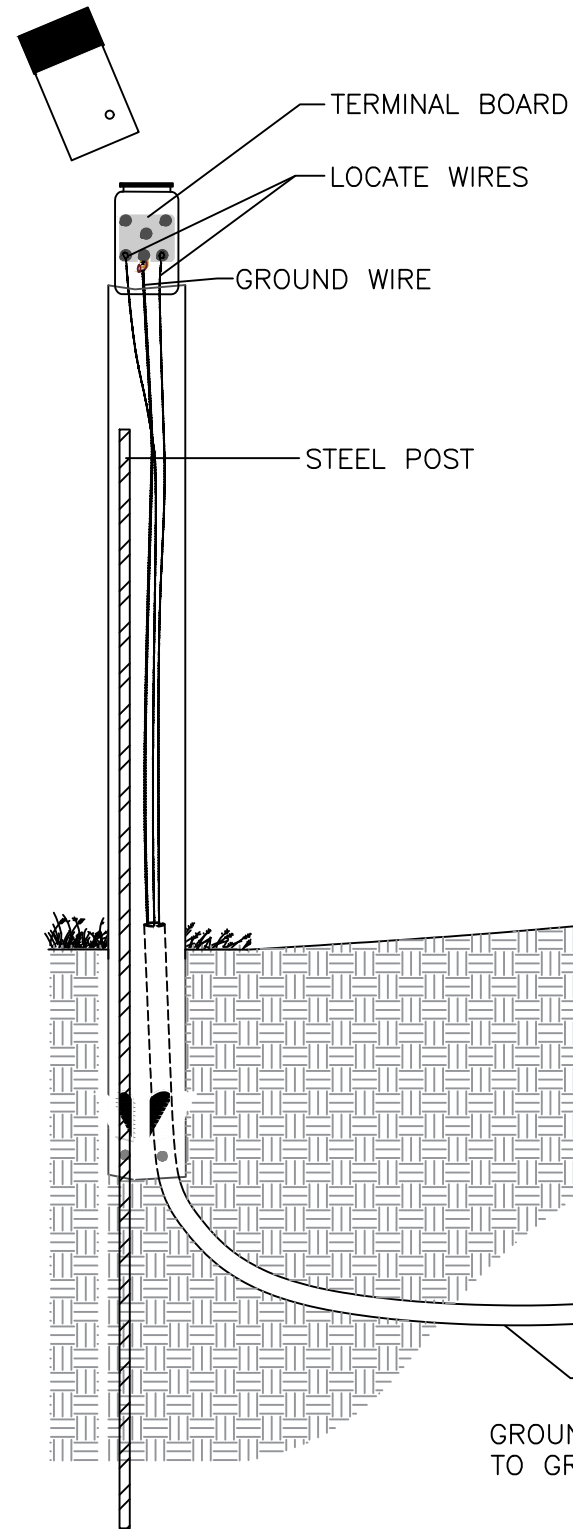
CONSTRUCTION DOCUMENT



|  |                  |            |   |     |
|--|------------------|------------|---|-----|
| MOUNT PLEASANT IOWA WESLEYAN FIBER RELOCATION FIBER INSTALLATION |                  |            | hbk   | ICN |
| 1  | FOR 60% REVIEW   | 08/17/2023 | IOWA COMMUNICATIONS NETWORK<br>400 EAST 14TH STREET<br>GRIMES STATE OFFICE BUILDING<br>DES MOINES, IOWA 50319<br>ICN © 2019, COPY WITH PERMISSION |     |
| 2  | FOR 90% REVIEW   | 08/31/2023 |   |     |
| 3  | FOR PERMIT PLANS | 09/11/2023 |   |     |
| 4  |                  |            |   |     |



# TYPICAL INSTALLATION OF TRI-VIEW LOCATE PEDESTAL



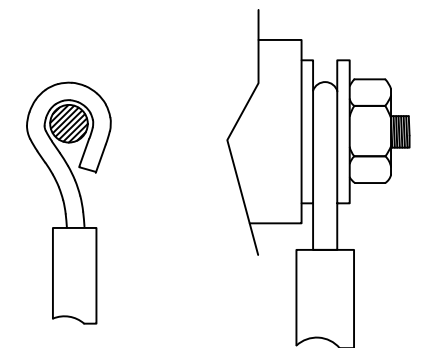
**NOTES:**

- LOCATE (TRACER) WIRE: #10 or #12 AWG SOLID COPPER WIRE
- GROUND WIRE: #6 OR #8 AWG SOLID BARE COPPER WIRE
- ONE LOCATE WIRE PER FIBER CABLE AT SPLICE ENCLOSURE
- LOCATE WIRE(S) TO BE BONDED INSIDE SPLICE ENCLOSURE WITH 3M SCOTCHLOK SHIELD BONDING KIT
- LOCATE WIRE(S) TO BE ROUTED OUTSIDE OF SPLICE ENCLOSURE WITH FOSC CLOSURE SEALING KIT
- LOCATE WIRE(S) TO BE ROUTED VIA DUCT TO LOCATE PEDESTAL AND TERMINATED AT TERMINAL BOARD
- GROUND LOCATE PEDESTAL TO GROUND ROD WITH SOLID BARE COPPER WIRE AND GROUND CLAMP
- SECURE LOCATE PEDESTAL BY PLACING OVER STEEL POST
- SET PEDESTAL AT OR NEAR RIGHT-OF-WAY, IF POSSIBLE
- MINIMUM HEIGHT OF INSTALLED PEDESTAL MUST BE 5 FEET

**TRACER WIRE TERMINATION DETAIL**

Termination of the locate wire at either a pedestal, puck, or in a splice case shall be made in the following fashion:

Strip off a minimum of 3/4" of insulation. Using a needle nose pliers bend a wire "eyelet" on the wire end in a clockwise manner. Use a flat washer on both sides of the wire eyelet when cinching it down on the stud. Flat washers shall be of appropriate size such that the hole matches the diameter of the stud and the outside diameter of the flat washer matches reasonably close to the eyelet diameter.

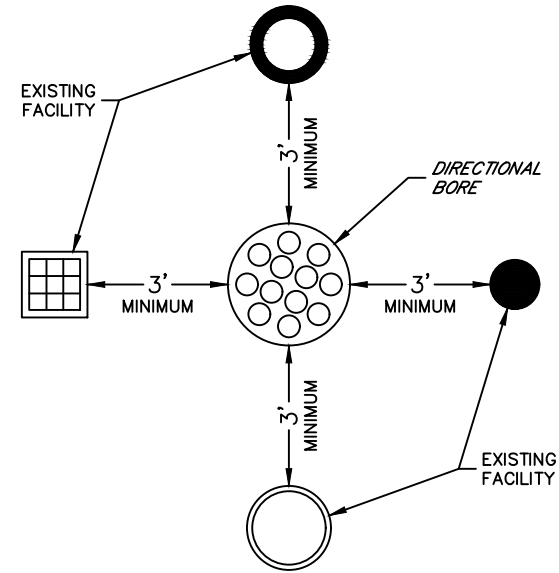


**CONSTRUCTION DOCUMENT**



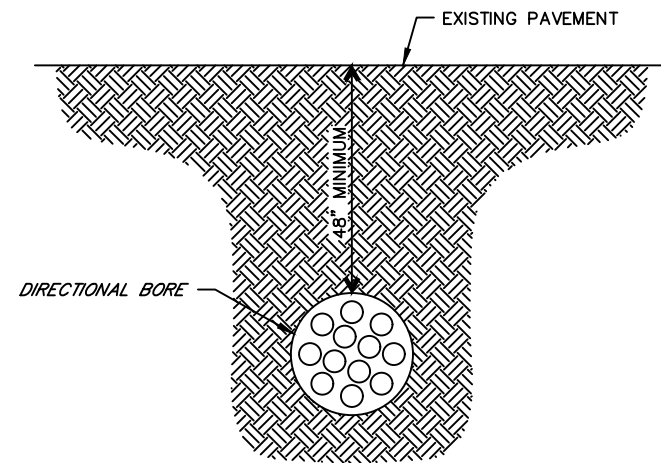
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|--|------------------|------------|---|------------|
| MOUNT PLEASANT IOWA WESLEYAN FIBER RELOCATION FIBER INSTALLATION |                  |            | <b>hbk</b>  | <b>ICN</b> |
| 1  | FOR 60% REVIEW   | 08/17/2023 | IOWA COMMUNICATIONS NETWORK<br>400 EAST 14TH STREET<br>GRIMES STATE OFFICE BUILDING<br>DES MOINES, IOWA 50319<br>ICN © 2019, COPY WITH PERMISSION |            |
| 2  | FOR 90% REVIEW   | 08/31/2023 |   |            |
| 3  | FOR PERMIT PLANS | 09/11/2023 |   |            |
| 4  |                  |            |   |            |



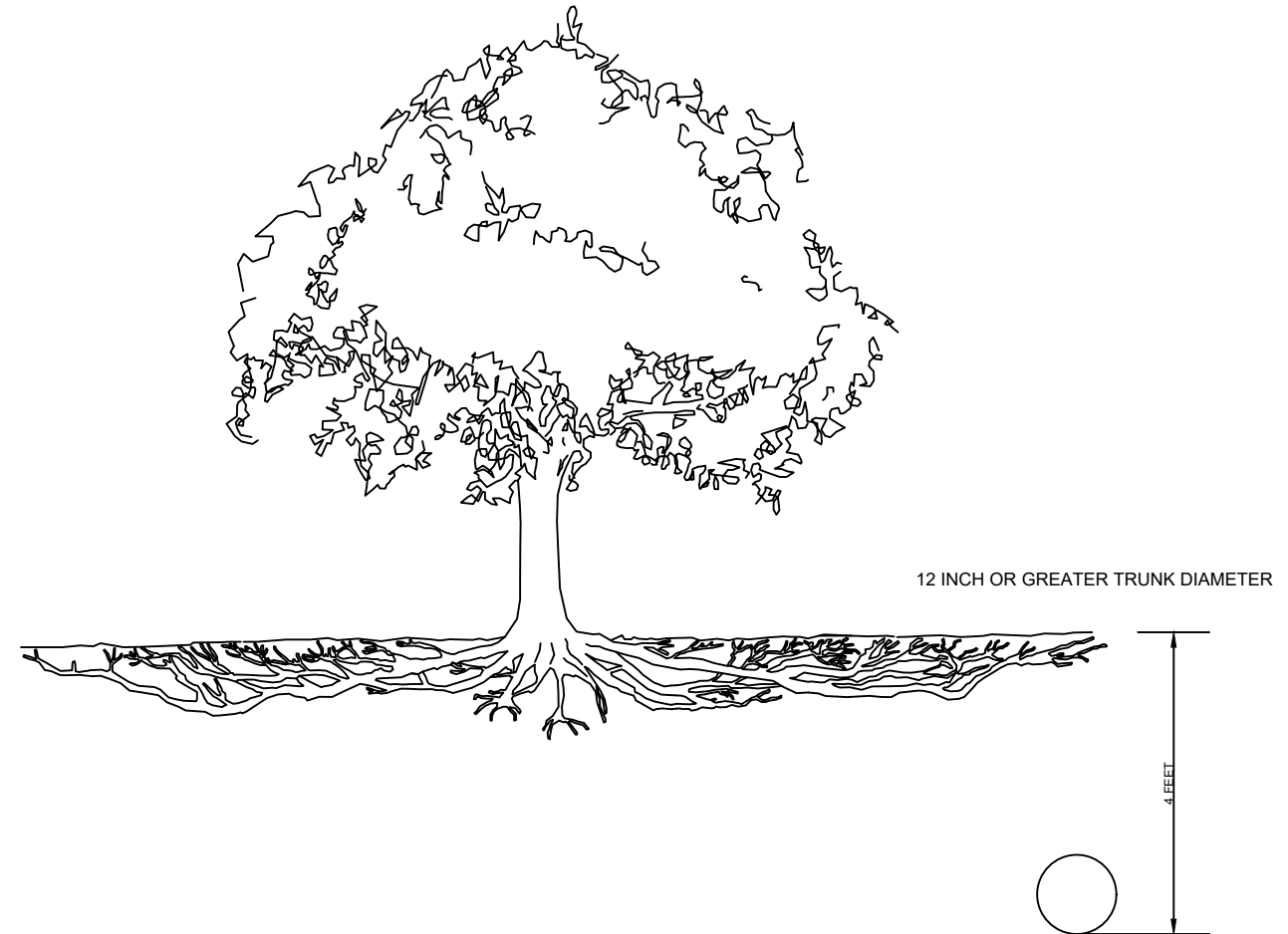


MAINTAIN A MINIMUM OF AT LEAST 3 FEET OF SEPARATION IN ANY DIRECTION BETWEEN DIRECTIONAL BORE AND ALL EXISTING FACILITIES.

UTILITY SEPARATION DETAIL



DIRECTIONAL BORING DETAIL

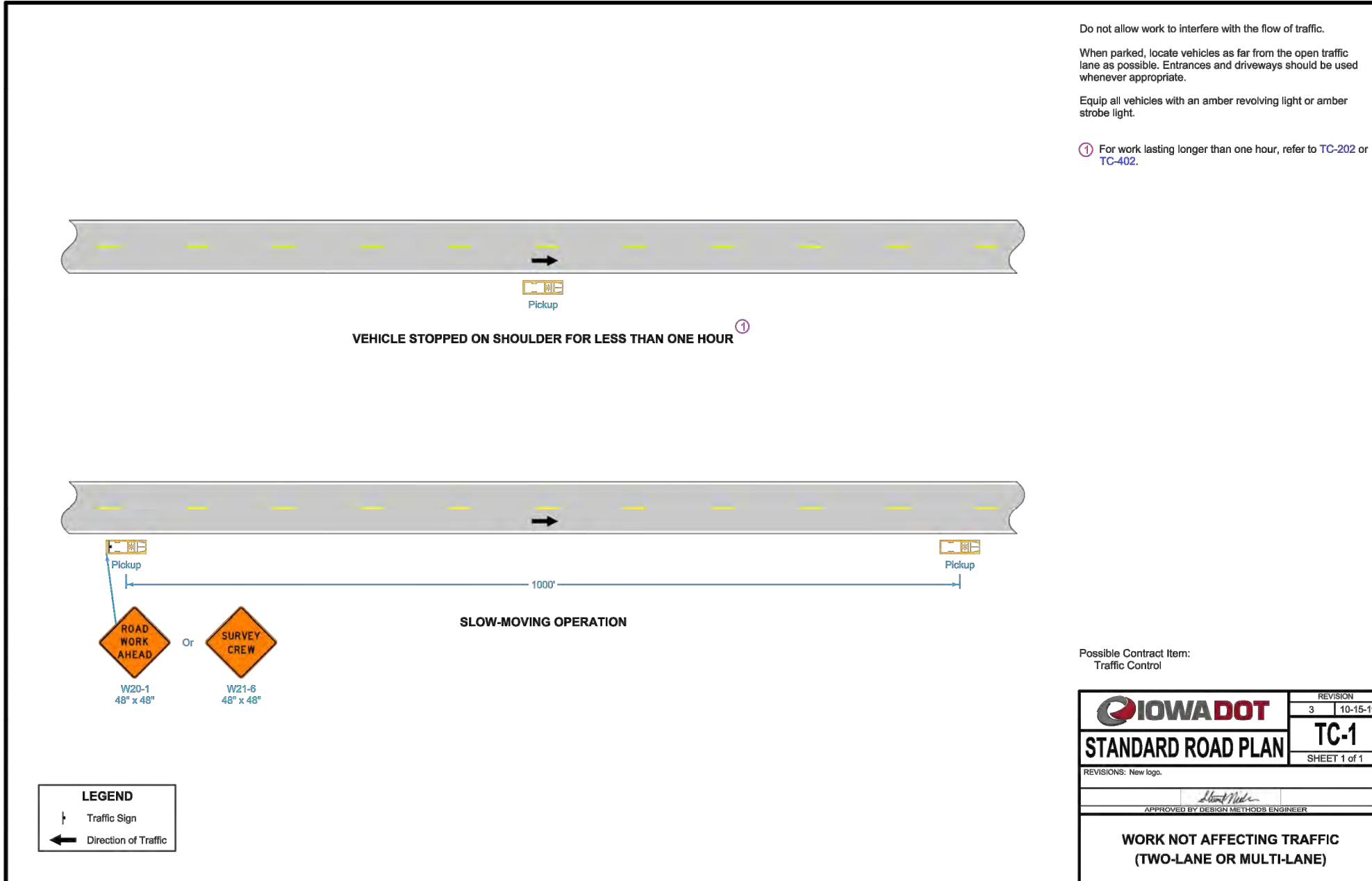


TREE PROTECTION - TUNNELING



|   |                  |            |   |            |
|---|------------------|------------|---|------------|
| MOUNT PLEASANT IOWA WESLEYAN FIBER RELOCATION |                  |            | <b>hbk</b>  | <b>ICN</b> |
| FIBER INSTALLATION                            |                  |            |   |            |
| 1   | FOR 60% REVIEW   | 08/17/2023 | IOWA COMMUNICATIONS NETWORK<br>400 EAST 14TH STREET<br>GRIMES STATE OFFICE BUILDING<br>DES MOINES, IOWA 50319<br>ICN © 2019, COPY WITH PERMISSION |            |
| 2   | FOR 90% REVIEW   | 08/31/2023 |   |            |
| 3   | FOR PERMIT PLANS | 09/11/2023 |   |            |
| 4   |                  |            |   |            |





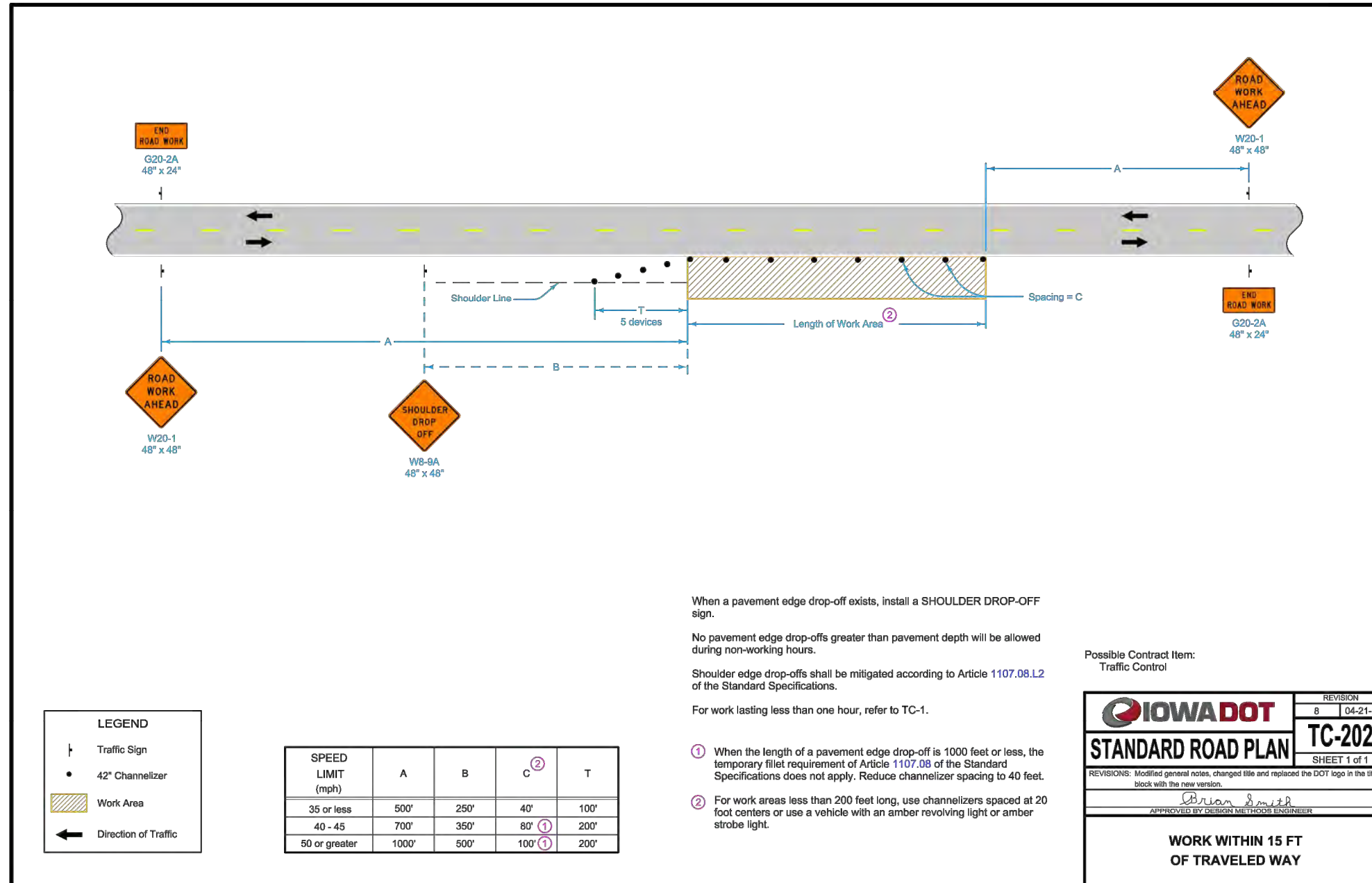
**LEGEND**  
 ↑ Traffic Sign  
 ← Direction of Traffic

**CONSTRUCTION DOCUMENT**



|   |                  |            |   |
|---|------------------|------------|---|
| MOUNT PLEASANT IOWA WESLEYAN FIBER RELOCATION |                  |            |   |
| FIBER INSTALLATION                            |                  |            |   |
| 1   | FOR 60% REVIEW   | 08/17/2023 | IOWA COMMUNICATIONS NETWORK<br>400 EAST 14TH STREET<br>GRIMES STATE OFFICE BUILDING<br>DES MOINES, IOWA 50319<br>ICN © 2019, COPY WITH PERMISSION |
| 2   | FOR 90% REVIEW   | 08/31/2023 |   |
| 3   | FOR PERMIT PLANS | 09/11/2023 |   |
| 4   |                  |            |   |





CONSTRUCTION DOCUMENT

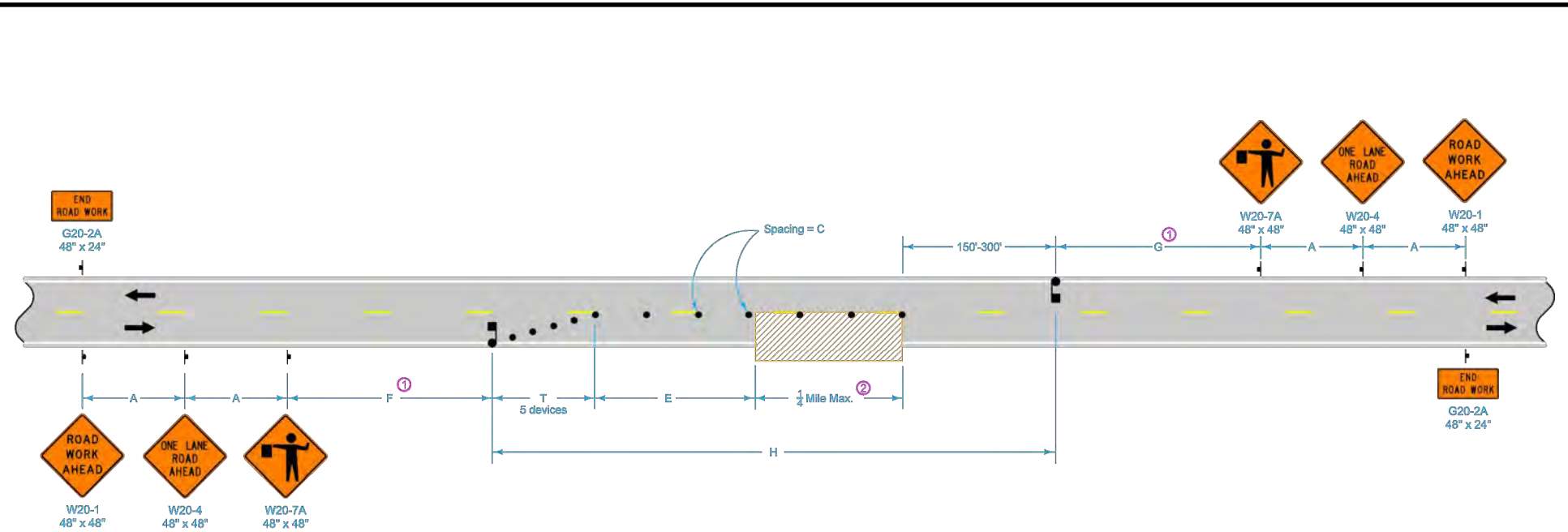


MOUNT PLEASANT IOWA WESLEYAN FIBER RELOCATION  
FIBER INSTALLATION

|   |                  |            |
|---|------------------|------------|
| 1 | FOR 60% REVIEW   | 08/17/2023 |
| 2 | FOR 90% REVIEW   | 08/31/2023 |
| 3 | FOR PERMIT PLANS | 09/11/2023 |
| 4 |                  |            |

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DES MOINES, IOWA 50319  
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**LEGEND**

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

| SPEED LIMIT (mph) | A    | C    | E         | F and G Range | F + G Max. | H Max. | T    |
|-------------------|------|------|-----------|---------------|------------|--------|------|
| 35 or less        | 250' | 40'  | 0'-200'   | 500'-3000'    | 3500'      | 2000'  | 50'  |
| 40 - 45           | 350' | 80'  | 0'-200'   | 700'-3000'    | 3700'      | 2000'  | 100' |
| 50 or greater     | 500' | 100' | 200'-300' | 1000'-3000'   | 4000'      | 2000'  | 100' |

- ① Keep F and G distances as near to minimum values as work permits. However, to allow advancement of the work area without moving signs, F and G distances may be varied within the limits of the table. Maximum movement can be achieved by setting one F or G value at the minimum and the other value at its maximum.
- ② If length of work area exceeds 1/4 mile, use TC-214.

Possible Contract Items:  
 Flaggers  
 Traffic Control

**IOWA DOT**

**STANDARD ROAD PLAN**

REVISIONS: New logo.

APPROVED BY DESIGN METHODS ENGINEER

**LANE CLOSURE WITH FLAGGERS**

| REVISION | DATE     |
|----------|----------|
| 4        | 10-15-19 |

TC-213  
SHEET 1 of 1

**CONSTRUCTION DOCUMENT**



MOUNT PLEASANT IOWA WESLEYAN FIBER RELOCATION  
 FIBER INSTALLATION

| NO. | DESCRIPTION      | DATE       |
|-----|------------------|------------|
| 1   | FOR 60% REVIEW   | 08/17/2023 |
| 2   | FOR 90% REVIEW   | 08/31/2023 |
| 3   | FOR PERMIT PLANS | 09/11/2023 |
| 4   |                  |            |

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