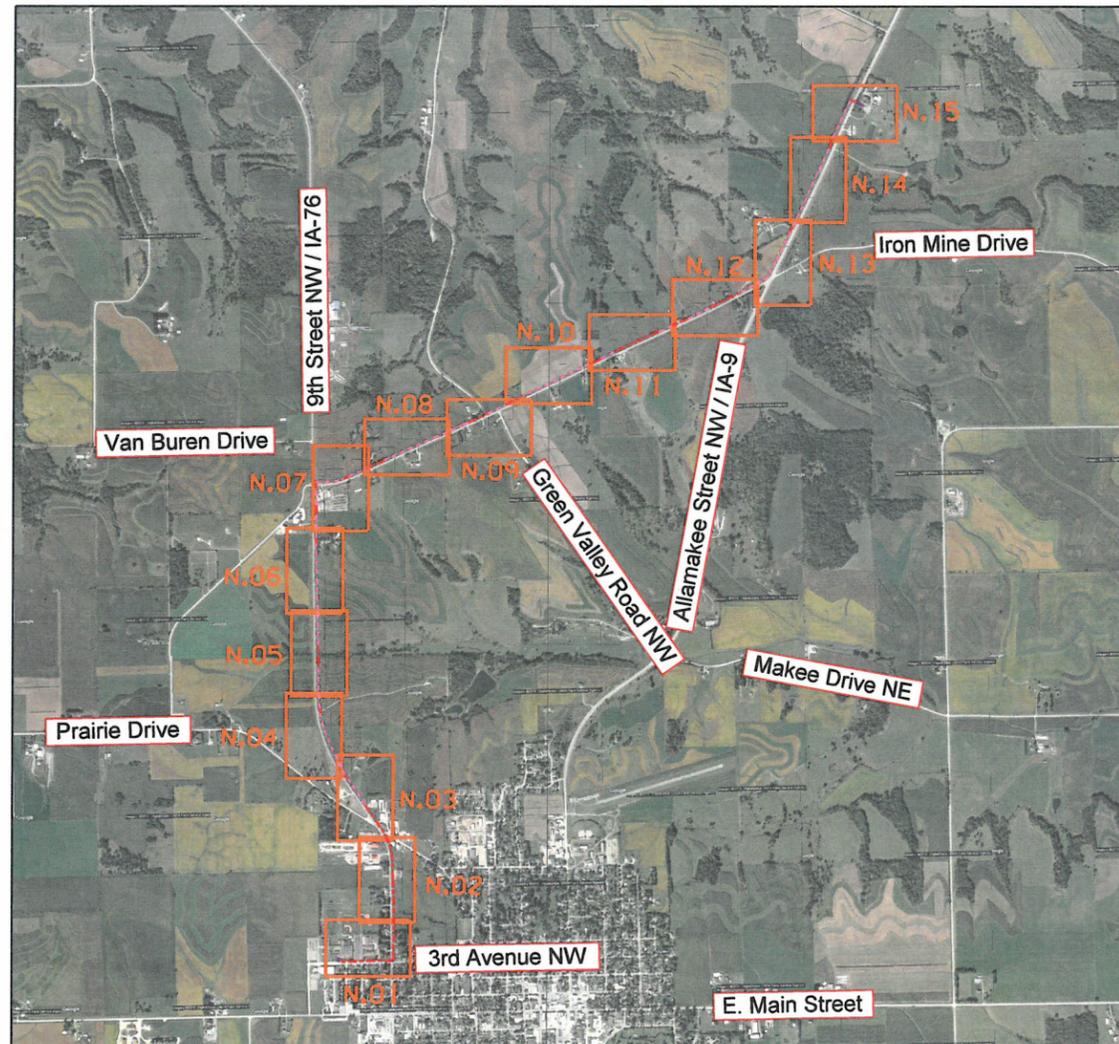
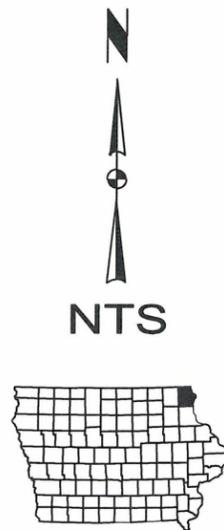




# ALLAMAKEE COUNTY, IOWA IOWA COMMUNICATIONS NETWORK ALLAMAKEE COUNTY LAW ENFORCEMENT CENTER

## 877 HIGHWAY 9, WAUKON, IOWA

PROJECT COORDINATION CONTACTS			
NAME	AGENCY	PHONE	EMAIL
TIM FLICKINGER	ICN	515-725-4699	TIMOTHY.FLICKINGER@IOWA.GOV



SHT. NO.	SHEET INDEX
A SHEETS A.01 A.02	TITLE SHEETS TITLE PAGE LEGEND AND SYMBOL INFORMATION SHEET
C SHEETS C.01 C.02 C.03	QUANTITIES AND GENERAL INFORMATION ESTIMATE OF QUANTITIES, PROJECT DESCRIPTION, AND LISTING OF FIBER WORK GENERAL NOTES UTILITY CONTACTS
N SHEETS N.01 - N.15	FIBER PLANS FIBER DESIGN
ATTACHMENTS	SEE ATTACHED SHEETS FOR TYPICAL DETAILS FOR: - HANDHOLES - HIDEOUT LOCATE PEDESTAL - TRI-VIEW LOCATE PEDESTAL WAUKON HIGH SCHOOL CONDUIT PLANS ALLAMAKEE COUNTY LAW ENFORCEMENT CENTER UTILITY PLANS

PERMITS REQUIRED	
SHT. NO.	PERMIT
N.01 - N.04	CITY OF WAUKON ROW
N.07-N.13	ALLAMAKEE COUNTY ROW
N.04-N.07, N.13-N.15	IOWA DOT ROW



**PRIOR TO CONSTRUCTION:**  
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.

LICENSED PROFESSIONAL ENGINEER

GREGORY T. SEIB

23179

IOWA

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

*Gregory T. Seib*      7-29-2016  
 Signature      Date

Gregory T. Seib  
 Printed or Typed Name

23179  
 License Number

My license renewal date is December 31, 2016

Pages or sheets covered by this seal: A.01-A.02, C.01-C.03, N.01-N.15

STANDARD SYMBOLS

- Interstate Highway Symbol
- U.S. Highway Symbol
- Iowa Highway Symbol
- County Road Highway Symbol
- Evergreen Tree
- Deciduous Tree
- Fruit Tree
- Shrub (Bushes)
- Timber
- Hedge
- Stump
- Swamp
- Rock Outcrop
- Broken Concrete
- Revetment (Rip Rap)
- Cemetery
- Grave
- Cave
- Sink Hole
- Board Fence
- Chain Link or Security Fence
- Wire Fence
- Terrace
- Earth Dam or Dike (Existing)
- Earth Dam or Dike (Proposed)
- Tile Outlet
- Edge of Water
- Existing Drainage
- Proposed Drainage
- Right of Way Rail or Lot Corner
- Concrete Monument
- Well
- Windmill
- Beehive Intake
- Existing Intake
- Proposed Intake
- Existing Utility Access (Manhole)
- Proposed Utility Access (Manhole)
- Fire Hydrant
- Water Hydrant (Rural)
- Septic Tank
- Cistern Symbol
- L.P. Gas Tank (No Footing)
- Underground Storage Tank
- Latrine
- Luminaire

- Traffic Signal
- Traffic Signal with Luminaire
- Telephone Pedestal
- Television Pedestal
- Telephone Pole
- Telephone Pole (Second Company)
- Telephone Pole (Third Company)
- Telephone Pole (Fourth Company)
- Telephone Pole (Fifth Company)
- Power Pole
- Power Pole (Second Company)
- Power Pole (Third Company)
- Power Pole (Fourth Company)
- Power Pole (Fifth Company)
- Electrical HighLine Tower (Metal or Concrete)
- Power Riser Pole
- Telegraph Pole
- Satellite TV Dish
- Existing Water Line
- Existing Water Line (Second Company)
- Existing Sanitary Sewer Line
- Existing Telephone Line
- Existing Telephone Line (Second Company)
- Existing Fiber Optics Telephone Line
- Existing Storm Sewer Line

- Existing Gas Line
- Existing High Pressure Gas Line
- Existing Gas Line (Second Company)
- Existing High Pressure Gas Line (Second Company)
- Existing Power Line
- Existing Power Line (Second Company)
- Cable Television Line
- Guardrail (Beam or Cable)
- Guard Post (one or two)
- Guard Post (over two)
- Filler Pipe
- Gas Valve
- Water Valve
- Speed Limit Sign
- Mile Marker Post
- SIGN
- WHU
- RT
- EB
- TCB
- RRB
- TSB

- Existing Water Line
- Existing Water Line (Second Company)
- Existing Sanitary Sewer Line
- Existing Telephone Line
- Existing Telephone Line (Second Company)
- Existing Fiber Optics Telephone Line
- Existing Storm Sewer Line

UNIQUE SYMBOLS FOR THIS PROJECT

EXISTING	PROPOSED	DESCRIPTIONS
		ICN Bored Conduit
		Existing Conduit
		ICN Direct Bury Fiber
		ICN Handhole
		Locate Point
		ICN ROUTE MARKER-WARNING



NOTE: THE PLAN LOCATIONS OF UNDERGROUND AND AERIAL UTILITIES, WHEN SHOWN, ARE APPROXIMATE ONLY. IN ADDITION, A PORTION OF UTILITY INFORMATION MAY NOT HAVE BEEN PROVIDED. ALL UTILITIES SHALL BE LOCATED AND MARKED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTRACTING UTILITIES AND LOCATOR SERVICES AND SCHEDULING THE LOCATION OF UNDERGROUND UTILITIES. THE CONTRACTOR SHALL ALSO CONTACT ANY AND ALL UTILITIES AND LOCAL GOVERNMENT AGENCIES NOT PARTICIPATING IN LOCATION SERVICES.

ABBREVIATIONS

ICN	Iowa Communications Network
NEC	National Electric Code
TCP	Traffic Control Plan
ROW	Right of Way
HH	Handhole
DOT	Department of Transportation
NTS	Not to Scale

RIGHT OF WAY LEGEND

- Proposed Right of Way
- Existing Right of Way
- Existing and Proposed Right of Way
- Easement and Existing Right of Way
- Borrow
- Easement (Temporary)
- Easement
- Excess
- Property Line
- A/C Access Control

CONVENTIONAL SIGNS

- Survey Line
- Section Corner
- Proposed Profile Grade
- Railroad
- Field Tile
- Culverts
- Stream

LEGEND AND SYMBOL INFORMATION SHEET

### ESTIMATE OF QUANTITIES

Item No.	Item	Unit	Planned Total	As-Built Total
1	TRAFFIC CONTROL	LS	1	
2	MOBILIZATION	LS	1	
3	INSTALL HANDHOLE, 24" x 36" x 30"	EACH	6	
4	1 1/2" HDPE CONDUIT, BORED	LINEAR FT	8,326	
5	12 SM ARMORED FIBER*	LINEAR FT	23,064	
6	12 SM ARMORED FIBER (COIL)	LINEAR FT	1,050	
7	WARNING TAPE	LINEAR FT	14,523	
8	ICN ROUTE MARKER - WARNING	EACH	53	
9	ICN TRI-VIEW LOCATE PEDESTAL	EACH	2	
10	#12 TRACER WIRE	LINEAR FT	300	
11	INSTALL TYCO 450BS SPLICE CLOSURE	EACH	3	
12	ICN HIDEOUT LOCATE PEDESTAL	EACH	1	
13	GROUND ROD	EACH	3	

\*BORE DISTANCE SHOWN ON PLANS ARE THE ESTIMATED MINIMUM FOR CONSTRUCTION. THE CONTRACTOR SHALL DIRECT BURY ARMORED FIBER WHERE EXISTING CONDITIONS ALLOW UNLESS OTHERWISE SPECIFIED ON THE PLANS. THE CONTRACTOR MAY BORE IN LIEU OF DIRECT BURY AT THE CONTRACTOR'S EXPENSE.

STA. 0+00 to STA. 102+59 - FIBER REEL OF APPROXIMATELY 11,447 LF  
 STA. 102+59 to STA. 233+35 - FIBER REEL OF APPROXIMATELY 14,105 LF

### LISTING OF HANDHOLE WORK

Handhole Label	Handhole Type	Route	ICN Station	Northing (As Constructed)	Easting (As Constructed)	Splice Closure	12 SM Armored Fiber Coil
HH 1-1E	EXISTING	3rd Ave NW	0+70				150
HH 1-2	24" x 36" x 30"	Hwy. 76	10+87				150
HH 2-1	24" x 36" x 30"	Hwy. 76	25+74				150
HH 3-1	24" x 36" x 30"	Hwy. 76	40+89				150
HH 7-1	24" x 36" x 30"	Hwy. 76	102+59				150
HH 15-1	24" x 36" x 30"	Hwy. 9	230+60				150
HH 15-2	30" x 48" x 30"	Hwy. 9	231+90				150
						<b>Total</b>	<b>1050</b>

### PROJECT DESCRIPTION

**PROJECT SUMMARY**

ICN FIBER OPTIC INSTALLATION PROJECT IN ALLAMAKEE COUNTY.

ICN PROVIDING NEW FIBER OPTIC TO ALLAMAKEE LAW ENFORCEMENT CENTER.

THIS PROJECT INVOLVES INSTALLING A 12 STRAND ARMORED FIBER CONNECTION FROM THE NEW ALLAMAKEE COUNTY LAW ENFORCEMENT CENTER AT 877 HIGHWAY 9, WAUKON, IA TO THE WAKON HIGH SCHOOL AT 1059 3RD AVE NW, WAUKON, IA. APPROXIMATELY 23,200 FEET OF UNDERGROUND FIBER WILL BE INSTALLED, WHICH WILL CONSIST OF A COMBINATION OF DIRECTIONAL BORING (1) 1 1/2" HDPE AND DIRECT BURY OF ARMORED FIBER OPTIC CABLE. FIBER SPLICING AND DATA TRAFFIC CUTOVERS WILL BE COMPLETED UNDER A SEPARATE CONTRACT.

### LISTING OF CONDUIT & FIBER WORK

Conduit Run	Location		Length	1 1/2" HDPE Conduit, Bored	12 SM Armored Fiber
	From	To			
1AA	BUILDING ENTRANCE (Sta. 0+00)	HH 1-1E (Sta. 0+70)	70	-	70
1A	HH 1-1E (Sta. 0+70)	HH 1-2 (Sta. 10+87)	1017	1017	1017
1B	HH 1-2 (Sta. 10+87)	HH 2-1 (Sta. 25+74)	1487	1487	1487
2A	HH 2-1 (Sta. 25+74)	HH 3-1 (Sta. 40+89)	1515	1515	1515
3A	HH 3-1 (Sta. 40+89)	BEGINNING OF BORE (Sta. 46+50)	561	-	561
3B	BEGINNING OF BORE (Sta. 46+50)	END OF BORE (Sta. 47+50)	100	100	100
3C	END OF BORE (Sta. 47+50)	BEGINNING OF BORE (Sta. 59+75)	1225	-	1225
4A	BEGINNING OF BORE (Sta. 59+75)	END OF BORE (Sta. 60+75)	100	100	100
4B	END OF BORE (Sta. 60+75)	BEGINNING OF BORE (Sta. 91+25)	813	-	813
5A	BEGINNING OF BORE (Sta. 68+88)	END OF BORE (Sta. 72+38)	350	350	350
5B	END OF BORE (Sta. 72+38)	BEGINNING OF BORE (Sta. 91+17)	1879	-	1879
6A	BEGINNING OF BORE (Sta. 91+17)	END OF BORE (Sta. 92+17)	100	100	100
6B	END OF BORE (Sta. 92+17)	BEGINNING OF BORE (Sta. 96+81)	464	-	464
7A	BEGINNING OF BORE (Sta. 96+81)	END OF BORE (Sta. 98+31)	150	150	150
7B	END OF BORE (Sta. 98+31)	BEGINNING OF BORE (Sta. 101+59)	328	-	328
7C	BEGINNING OF BORE (Sta. 101+59)	HH 7-1 (Sta. 102+59)	100	100	100
7D	HH 7-1 (Sta. 102+59)	BEGINNING OF BORE (Sta. 107+87)	528	-	528
7E	BEGINNING OF BORE (Sta. 107+87)	END OF BORE (Sta. 108+87)	100	100	100
7F	END OF BORE (Sta. 108+87)	BEGINNING OF BORE (Sta. 112+46)	359	-	359
8A	BEGINNING OF BORE (Sta. 112+46)	END OF BORE (Sta. 116+07)	361	361	361
8B	END OF BORE (Sta. 116+07)	BEGINNING OF BORE (Sta. 133+24)	1718	-	1718
9A	BEGINNING OF BORE (Sta. 133+24)	END OF BORE (Sta. 137+28)	404	404	404
9B	END OF BORE (Sta. 137+28)	BEGINNING OF BORE (Sta. 140+80)	352	-	352
9C	BEGINNING OF BORE (Sta. 140+80)	END OF BORE (Sta. 144+56)	100	100	100
10A	END OF BORE (Sta. 144+56)	BEGINNING OF BORE (Sta. 158+05)	1349	-	1349
10B	BEGINNING OF BORE (Sta. 158+05)	END OF BORE (Sta. 160+38)	235	235	235
11A	END OF BORE (Sta. 160+38)	BEGINNING OF BORE (Sta. 163+64)	324	-	324
11B	BEGINNING OF BORE (Sta. 163+64)	END OF BORE (Sta. 172+18)	854	854	854
11C	END OF BORE (Sta. 172+18)	BEGINNING OF BORE (Sta. 174+80)	262	-	262
11D	BEGINNING OF BORE (Sta. 174+80)	END OF BORE (Sta. 178+02)	322	322	322
12A	END OF BORE (Sta. 178+02)	BEGINNING OF BORE (Sta. 182+61)	459	-	459
12B	BEGINNING OF BORE (Sta. 182+61)	END OF BORE (Sta. 188+55)	594	594	594
12C	END OF BORE (Sta. 188+55)	BEGINNING OF BORE (Sta. 204+00)	1544	-	1544
13A	BEGINNING OF BORE (Sta. 204+00)	END OF BORE (Sta. 205+00)	100	100	100
13B	END OF BORE (Sta. 205+00)	BEGINNING OF BORE (Sta. 220+92)	1592	-	1592
14A	BEGINNING OF BORE (Sta. 220+92)	END OF BORE (Sta. 222+96)	207	207	207
15A	END OF BORE (Sta. 222+96)	HH 15-1 (Sta. 230+60)	766	-	766
15B	HH 15-1 (Sta. 230+60)	HH 15-2 (Sta. 231+90)	130	130	130
15C	HH 15-2 (Sta. 231+90)	BUILDING ENTRANCE (Sta. 233+35)	145	-	145
			<b>Totals</b>	<b>8326</b>	<b>23,064</b>

### ESTIMATE OF QUANTITIES, PROJECT DESCRIPTION, AND LISTING OF WORK

### GENERAL NOTES

#### MISC.

1. AERIAL PHOTOGRAPHY SHOWN ON PLANS IS FOR REFERENCE ONLY AND MAY NOT MATCH EXISTING CONDITIONS.
2. ALL EXISTING IOWA COMMUNICATIONS NETWORK FIBER SHALL BE KEPT IN OPERATION. CONTRACTOR SHALL MAINTAIN AND PROTECT ALL EXISTING COMMUNICATION CABLES DURING CONSTRUCTION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
3. THE RIGHT-OF-WAY, WHERE SHOWN ON PLANS, IS APPROXIMATE ONLY. RIGHT-OF-WAY SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

#### UTILITIES

4. THE PLAN LOCATIONS OF UNDERGROUND AND AERIAL UTILITIES, WHEN SHOWN, ARE APPROXIMATE ONLY. IN ADDITION, A PORTION OF UTILITY INFORMATION MAY NOT HAVE BEEN PROVIDED. ALL UTILITIES SHALL BE LOCATED AND MARKED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING UTILITIES AND LOCATOR SERVICES AND SCHEDULING THE LOCATION OF UNDERGROUND UTILITIES. THE CONTRACTOR SHALL ALSO CONTACT ANY AND ALL UTILITIES AND LOCAL GOVERNMENT AGENCIES NOT PARTICIPATING IN LOCATION SERVICES.
5. THE CONTRACTOR SHALL NOT DISTURB ANY EXISTING UTILITIES EXCEPT AS SPECIFICALLY DEFINED WITHIN THE SCOPE OF WORK FOR THIS CONTRACT. WHERE WORK AFFECTS OR IS AFFECTED BY THE EXISTING UTILITIES, THE WORK SHALL BE COORDINATED WITH THE UTILITY COMPANY AND/OR OWNER. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH IOWA COMMUNICATIONS NETWORK.
6. UTILITY COMPANIES WHOSE FACILITIES ARE SHOWN ON THE PLANS OR KNOWN TO BE WITHIN THE CONSTRUCTION LIMITS SHALL BE NOTIFIED BY THE CONTRACTOR OF THE STARTING CONSTRUCTION DATE.

#### CONDUIT

7. THE CONTRACTOR SHALL BORE ALL CROSSINGS BENEATH ROADWAYS, STREETS, OTHER PAVED SURFACES, RAILROAD, OR OTHER STRUCTURE. DEPTH OF ALL BORES SHALL BE A MINIMUM OF 48 INCHES UNLESS OTHERWISE SPECIFIED IN PLANS.
8. ALL CONDUIT SHALL BE HDPE CONDUIT.
9. THE MINIMUM BENDING RADIUS OF HDPE CONDUIT SHALL BE THE CONDUIT MANUFACTURER'S RECOMMENDATIONS FOR MINIMUM BENDING RADIUS.

#### CONSTRUCTION

10. ANY AND ALL IMPROVEMENTS SUCH AS ASPHALT OR CONCRETE PAVEMENTS, CURBS, GUTTERS, WALKS, DRAINAGE DITCHES, CULVERTS, DRAIN TILES, EMBANKMENTS, SHRUBS, TREES, GRASS, SOD, ETC., IF DAMAGED, SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS (OR BETTER) AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE IOWA COMMUNICATIONS NETWORK.
11. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY EXISTING CONDUIT, CONDUCTORS, OR OTHER FACILITIES DAMAGED DURING CONSTRUCTION. ALL EXISTING INFRASTRUCTURE REMOVED OR DAMAGED BY THE CONTRACTOR SHALL BE REPLACED IN KIND BY THE CONTRACTOR, WITH NO ADDITIONAL COMPENSATION.
12. MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF ALL APPLICABLE SECTIONS INCLUDING BUT NOT LIMITED TO ARTICLES 2523 AND 2525, OF THE "IOWA DEPARTMENT OF TRANSPORTATION ENGLISH STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, SERIES 2015" PLUS CURRENT SUPPLEMENT SPECIFICATIONS AND SPECIAL PROVISIONS.

### GENERAL NOTES

#### CONSTRUCTION (CONTINUED)

13. THE CONTRACTOR SHALL NOT DISTURB DESIRABLE GRASS AREAS AND DESIRABLE TREES OUTSIDE THE CONSTRUCTION LIMITS. THE CONTRACTOR WILL NOT BE PERMITTED TO PARK OR SERVICE VEHICLES AND EQUIPMENT OR USE THESE AREAS FOR STORAGE OF MATERIALS. STORAGE, PARKING AND SERVICE AREA(S) WILL BE SUBJECT TO THE APPROVAL OF THE RESIDENT CONSTRUCTION ENGINEER.
14. THE TOP SIX (6) INCHES OF THE DISTURBED AREAS SHALL BE FREE OF ROCK AND DEBRIS AND SHALL BE FOR THE ESTABLISHMENT OF VEGETATION, SUBJECT TO THE APPROVAL OF THE ENGINEER.
15. THE CONTRACTOR IS EXPECTED TO HAVE MATERIALS, EQUIPMENT, AND LABOR AVAILABLE ON A DAILY BASIS TO INSTALL AND MAINTAIN EROSION CONTROL FEATURES ON THE PROJECT. THIS MAY INVOLVE SEEDING, SILT FENCE, ROCK DITCH CHECKS, SILT BASINS, OR SILT DIKES.
16. NO OPEN HOLES OR MOUNDS OF DIRT SHALL BE LEFT UNPROTECTED DURING NON-WORKING HOURS.

#### FIBER

17. CONTRACTOR SHALL PLACE TAGS ON ALL FIBER OPTIC CABLE IDENTIFYING THE OWNER AND DIRECTION OF THE CABLE AT EACH TERMINATION POINT AND IN EVERY HANDHOLE AND SPLICE VAULT. TAGS SHALL CLEARLY IDENTIFY WHERE EACH INDIVIDUAL CABLE RUN ORIGINATED AND WHERE IT ENDS (HANDHOLE TO HANDHOLE, HANDHOLE TO CABINET, HANDHOLE TO BUILDING, ETC.) FOR FIBER INSTALLATIONS WITH JOINT DEPARTMENT OF TRANSPORTATION/OTHER AGENCY (OR ENTITY) USE WHERE THE FIBER WILL BE OWNED BY THE OTHER AGENCY (OR ENTITY), INSTALL TYPICAL IDENTIFIERS AND/OR MARKINGS FOR THAT FIBER.
18. IN THE EVENT IT IS SUSPECTED THAT CABLE DAMAGE HAS OCCURRED PRIOR TO FINAL ACCEPTANCE, CONTRACTOR SHALL PERFORM OTDR TESTING OF ALL FIBER STRANDS WITHIN SEVENTY TWO (72) HOURS AFTER NOTIFICATION AND SUBMIT A COPY OF THE OTDR TEST TO THE ENGINEER UPON COMPLETION.
19. CONTRACTOR SHALL REPLACE OR REPAIR, AS DIRECTED BY THE ENGINEER, ANY DAMAGE OCCURRING BEFORE FINAL ACCEPTANCE AT NO ADDITIONAL COST TO THE IOWA COMMUNICATIONS NETWORK. THE CONTRACTOR WILL NOT BE GRANTED AN EXTENSION OF TIME FOR DELAYS CAUSED BY REPLACING OR REPAIRING THE INSTALLED CABLE.
20. CONTRACTOR SHALL REPAIR OR REPLACE ANY DEFECT IN THE INSTALLED CABLE AT NO ADDITIONAL COST TO THE IOWA COMMUNICATIONS NETWORK. CONSIDER A DEFECT TO BE ANY CONDITION RESULTING IN A NEGATIVE OR ADVERSE EFFECT ON CURRENT OR FUTURE OPERATIONS OF THE COMPLETED FIBER OPTIC COMMUNICATION SYSTEM AS DETERMINED BY THE ENGINEER.
21. ANY EXISTING WIRING THAT IS DAMAGED DURING FIBER OPTIC CABLE INSTALLTION SHALL BE REPLACED OR REPAIRED, AS DIRECTED BY THE ENGINEER, AT NO ADDITIONAL COST TO THE IOWA COMMUNICATIONS NETWORK.
22. CONTRACTOR SHALL INSTALL WARNING TAPE OVER ALL PLOWED CONDUIT AND DIRECT BURIED FIBER CABLES.
23. WARNING MARKERS FOR FIBER OPTIC CABLE SHOULD TYPICALLY BE PLACED:
  - AT EVERY CHANGE OF DIRECTION OF FIBER CABLE ROUTE.
  - AT INTERSECTIONS OR ROAD CROSSINGS (EACH SIDE).
  - AT BEGINNING AND END OF BORES WHEN TRANSITIONING FROM DIRECT BURIED
  - APPROXIMATELY EVERY 1 / 4 MILE ALONG FIBER ROUTE OR MORE IF REQUIRED BY LOCAL ROW ENTITY (PLACED AT EDGE OF ROW).
  - AT HANDHOLES

#### NOTE:

ALLAMAKEE COUNTY REQUIRES WARNING MARKERS APPROXIMATELY EVERY 500'.

#### ICN STANDARDS:

CONTRACTOR SHALL ADHERE TO ICN STANDARD INSTALLATION DRAWING TYPICALS, PROJECT DETAILS, AND STANDARDS WITHIN THE SCOPE OF WORK BID DOCUMENT.

### GENERAL NOTES

ENGLISH

ICN

DESIGN TEAM Olsson Associates

ALLAMAKEE

COUNTY

OSP LOG NUMBER 03150105 ALLAMAKEE COUNTY LAW ENFORCEMENT CENTER

SHEET NUMBER

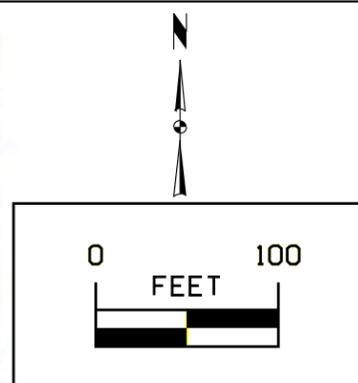
C.02

**UTILITY CONTACTS**

Company	Name	Street	City, State, Zip	Phone
ALLIANT ENERGY	DAVID STEVENSON	1284 XE PLACE	AMES, IA 50014	515-268-3469
ACE COMMUNICATIONS GROUP		207 E. CEDAR STREET	HOUSTON, MN 55943	507-896-3192
ALLAMAKEE COUNTY ENGINEER	BRIAN RIDENOUR	COUNTY ENGINEER'S FOFICE 870 4TH STREET NW PO BOX 493	WAUKON, IA 52172	563-568-4574
ALLAMAKEE E911 COORDINATOR (SITE CONTACT)	CHRISTOPHER FEE	110 ALLAMAKEE STREET	WAUKON, IA 52172	563-568-4603
BLACK HILLS ENERGY		1015 CEDAR CROSS	DUBUQUE, IA 52003	563-585-4022
CENTURY LINK		925 HIGH STREET	DES MOINES, IA 52172	800-201-4099
CITY OF WAUKON		101 ALLAMAKEE STREET	WAUKON, IA 52172	563-568-3492
CULLIGAN WATER CONDITIONING		19 E. MAIN STREET	WAUKON, IA 52172	563-568-2759
EXEDE SATELLITE				404-500-3356
HUGHES NET				1-877-619-5321
IOWA COMMUNICATIONS NETWORK (LOCAL FIBER OPTICS)	TIM FLICKINGER	400 E 14TH STREET, GRIMES STATE OFFICE BLDG	DES MOINES, IA, 50319	515-725-4699
IOWA DEPARTMENT OF TRANSPORTATION (UTILITY RELOCATION COORDINATOR)	JEFFRY N. MCCOLLOUGH			515-239-1373
IOWA DOT DISTRICT 2 RIGHT-OF-WAY	KATHIE RUSTAD	2305 US 525	DECORAH, IA 52101	563-382-3631
KERNDT TRENCHING SERVICE		205 9TH STREET NW	WAUKON, IA 52172	563-568-2377
MEDIACOM		207 W. PEARL STREET	DECORAH, IA 52101	563-663-0673
SHAWVER WELL COMPANY INC.		2521 HWY. 76 SE	WAUKON, IA 52172	563-568-4797
WAUKON CITY CLERK	AL LYON	101 ALLAMAKEE STREET	WAUKON, IA 52172	563-568- <del>4392</del> 3492
WAUKON HIGH SCHOOL	SHAWN GORDON	1061 3RD AVENUE NW	WAUKON, IA 52172	563-568-3409 EXT. 2591
WAUKON WATER/SEWER SUPERINTENDENT	BOB CAMPBELL	515 CLARK AVENUE	WAUKON, IA 52172	563-568-2683

THIS LIST IS NOT ALL-INCLUSIVE. CONTRACTOR IS RESPONSIBLE TO REQUEST LOCATES OF ALL UTILITIES, AND COORDINATE IF NEEDED, PRIOR TO COMMENCING WORK. 72 HOUR ADVANCE NOTICE IS REQUIRED TO NOTIFY ALL UTILITY COMPANIES.

**UTILITY CONTACTS**



ALLAMAKEE CO.  
T-98N, R-6W/R-5W  
SEC. 25,30



MP 31.00

ROW

27' EOP (typ.)

4' ROW (typ.)

16+16 POLE

15+24 END CULVERT

15+21 Q DRIVE

14+95 BEGIN CULVERT

(1B)  
1487' from HH 1-2 to HH 2-1  
1 - 1 1/2" CONDUIT (BORED)  
1 - 12 SM ARMORED FIBER

14+17 CULVERT

13+91 Q DRIVE

13+71 POLE

13+17 Q DRIVE

12+18 Q DRIVE

MP 30.90

ROW

8+41 HYDRANT  
AND WATER VALVE

Route Around  
Fire Hydrant

Route Around  
Manhole

10+96 MANHOLE

10+87  
ICN MKR

Route Around  
Fire Hydrant

ICN Sta. 10+87  
IOWA DOT Sta. 19+93.3  
HANDHOLE HH 1-2  
1 EA. INSTALL HANDHOLE, 24" x 36" x 30"  
1 EA. INSTALL HIDEOUT LOCATE PEDESTAL  
1 EA. INSTALL TYCO 450BS SPLICE CLOSURE  
1 EA. GROUND ROD  
MID-SHEATH ARMORED FIBER CABLE IN CLOSURE  
LEAVE (2) 50' COILS OF #12 TRACER WIRE  
FOR SPLICER  
150' COIL OF 12 SM ARMORED FIBER

Waukon High School  
1059 3rd Avenue NW.

Sta. 0+00  
BUILDING ENTRANCE  
LEAVE 25' COIL OF 12 SM ARMORED  
FIBER FOR SPLICING AT FDP  
(INSTALLED BY SPLICER)  
COORDINATE WITH ICN AND  
SHAWN GORDON, HIGH SCHOOL

(1AA)  
70' from BUILDING ENTRANCE to HH 1-1E  
EXISTING CONDUIT  
1 - 12 SM ARMORED FIBER  
INSTALL IN EMPTY CONDUIT  
SEE ATTACHED SHEET OF CONDUIT ENTRANCE DETAIL

(1A)  
1017' from HH 1-1E to HH 1-2  
1 - 1 1/2" CONDUIT (BORED)  
1 - 12 SM ARMORED FIBER

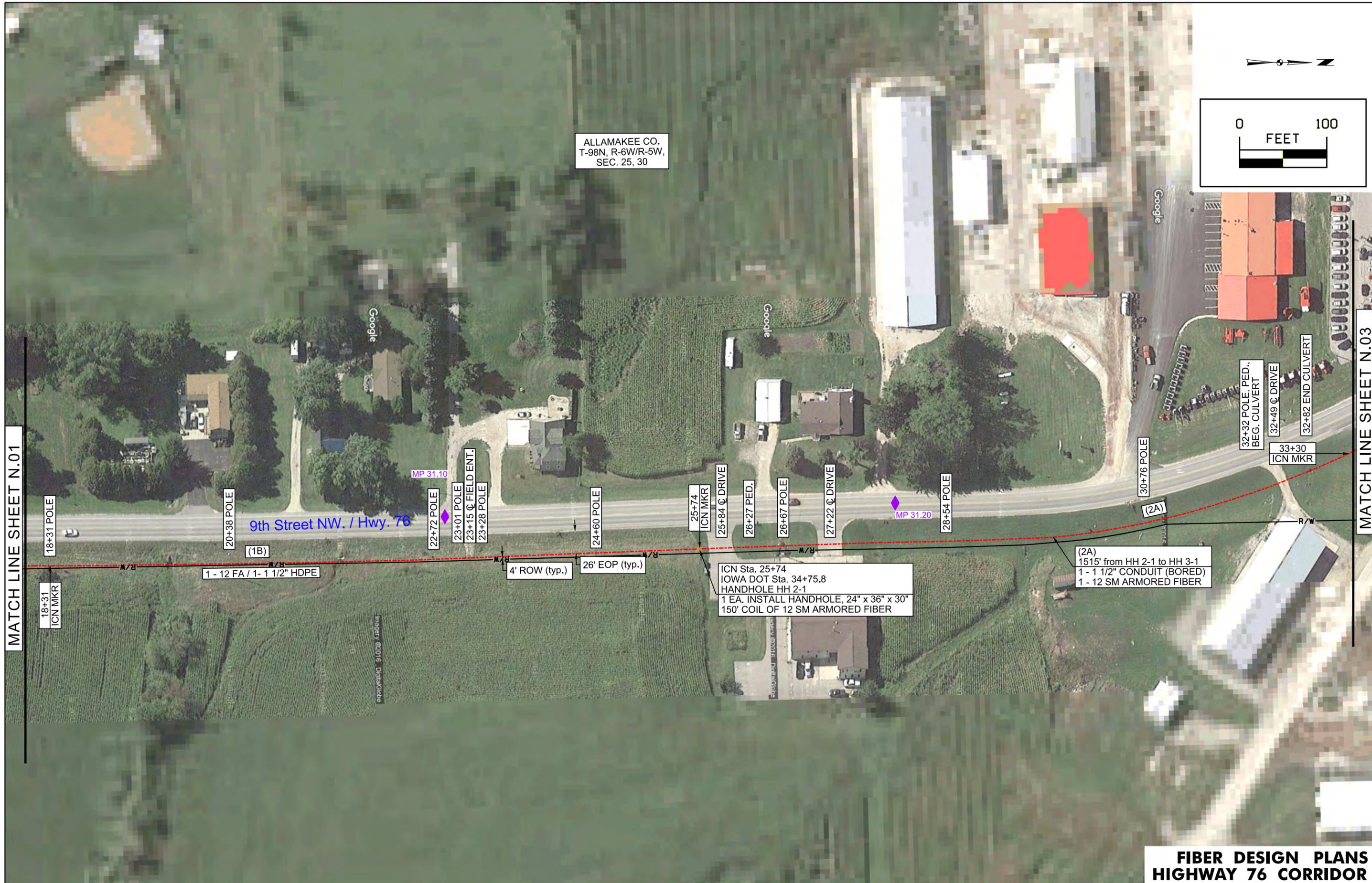
Install Under Sidewalk

3rd Avenue NW.

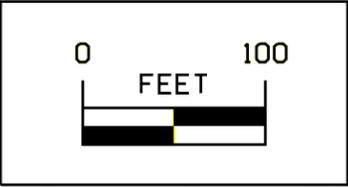
Sta. 0+70  
HANDHOLE HH 1-1E  
EXISTING HANDHOLE (36" ROUND)  
ENTER NEW CONDUIT INTO  
EXISTING HANDHOLE  
150' COIL OF 12 SM ARMORED FIBER

IRHTP LINK 7029  
EXISTING 36 STRAND FIBER

ICN LINK 0111  
EXISTING 4 STRAND FIBER



ALLAMAKEE CO.  
T-98N, R-6W/R-5W,  
SEC. 25, 30



MATCH LINE SHEET N.01

MATCH LINE SHEET N.03

18+31 POLE

18+31  
ICN MKR

20+38 POLE

(1B)

1 - 12 FA / 1- 1 1/2" HDPE

9th Street NW. / Hwy. 76

22+72 POLE

MP 31.10

23+01 POLE

23+15  $\phi$  FIELD ENT.

23+28 POLE

24+60 POLE

4' ROW (typ.)

26' EOP (typ.)

25+74  
ICN MKR

25+84  $\phi$  DRIVE

26+27 PED.

26+67 POLE

27+22  $\phi$  DRIVE

28+54 POLE

MP 31.20

30+76 POLE

(2A)

32+32 POLE, PED.,  
BEG. CULVERT

32+49  $\phi$  DRIVE

32+82 END CULVERT

33+30  
ICN MKR

ICN Sta. 25+74  
IOWA DOT Sta. 34+75.8  
HANDHOLE HH 2-1  
1 EA. INSTALL HANDHOLE, 24" x 36" x 30"  
150' COIL OF 12 SM ARMORED FIBER

(2A)  
1515' from HH 2-1 to HH 3-1  
1 - 1 1/2" CONDUIT (BORED)  
1 - 12 SM ARMORED FIBER

**FIBER DESIGN PLANS  
HIGHWAY 76 CORRIDOR**

SHEET NUMBER N.02

ALLAMAKEE CO.  
T-98N, R-6W,  
SEC. 25

(3C)  
1225' from END OF BORE to BEGINNING OF BORE  
1 - DIRECT BURY 12 SM ARMORED FIBER  
1 - WARNING TAPE

(3B)  
100' from BEGINNING OF BORE to END OF BORE  
1 - 1 1/2" CONDUIT (BORED)  
1 - 12 SM ARMORED FIBER

BORE PIT - ICN Sta. 47+50  
IOWA DOT Sta. 56+28.6

47+50  
ICN MKR

46+50  
ICN MKR

46+73 PED.

47+02 C DRIVE



Prairie Avenue NW

9th Street NW / Hwy - 76

35' EOP (typ.)

(3A)  
561' from HH 3-1 to BEGINNING OF BORE  
1 - DIRECT BURY 12 SM ARMORED FIBER  
1 - WARNING TAPE

ICN Sta. 40+89  
IOWA DOT Sta. 49+69.1  
HANDHOLE HH 3-1  
1 EA. INSTALL HANDHOLE, 24" x 36" x 30"  
150' COIL OF 12 SM ARMORED FIBER

40+89  
ICN MKR

24' EOP (typ.)

40+16 BEG. CULVERT

40+53 C DRIVE

40+89 END CULVERT, PED.

MATCH LINE SHEET N.02

35+73  
ICN MKR

(2A)

34+30 POLE

35+62 POLE

35+25 C ROADWAY

36+69 BEG. CULVERT

37+03 C DRIVE

37+24 END CULVERT

38+01 BEG. CULVERT

38+20 C DRIVE

38+32 END CULVERT

40+16 BEG. CULVERT

40+53 C DRIVE

40+89 END CULVERT, PED.

**FIBER DESIGN PLANS  
HIGHWAY 76 CORRIDOR**

ENGLISH ICN

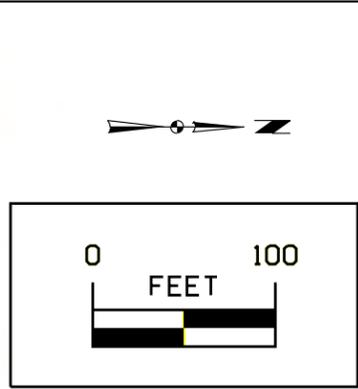
DESIGN TEAM Olsson Associates

ALLAMAKEE

COUNTY

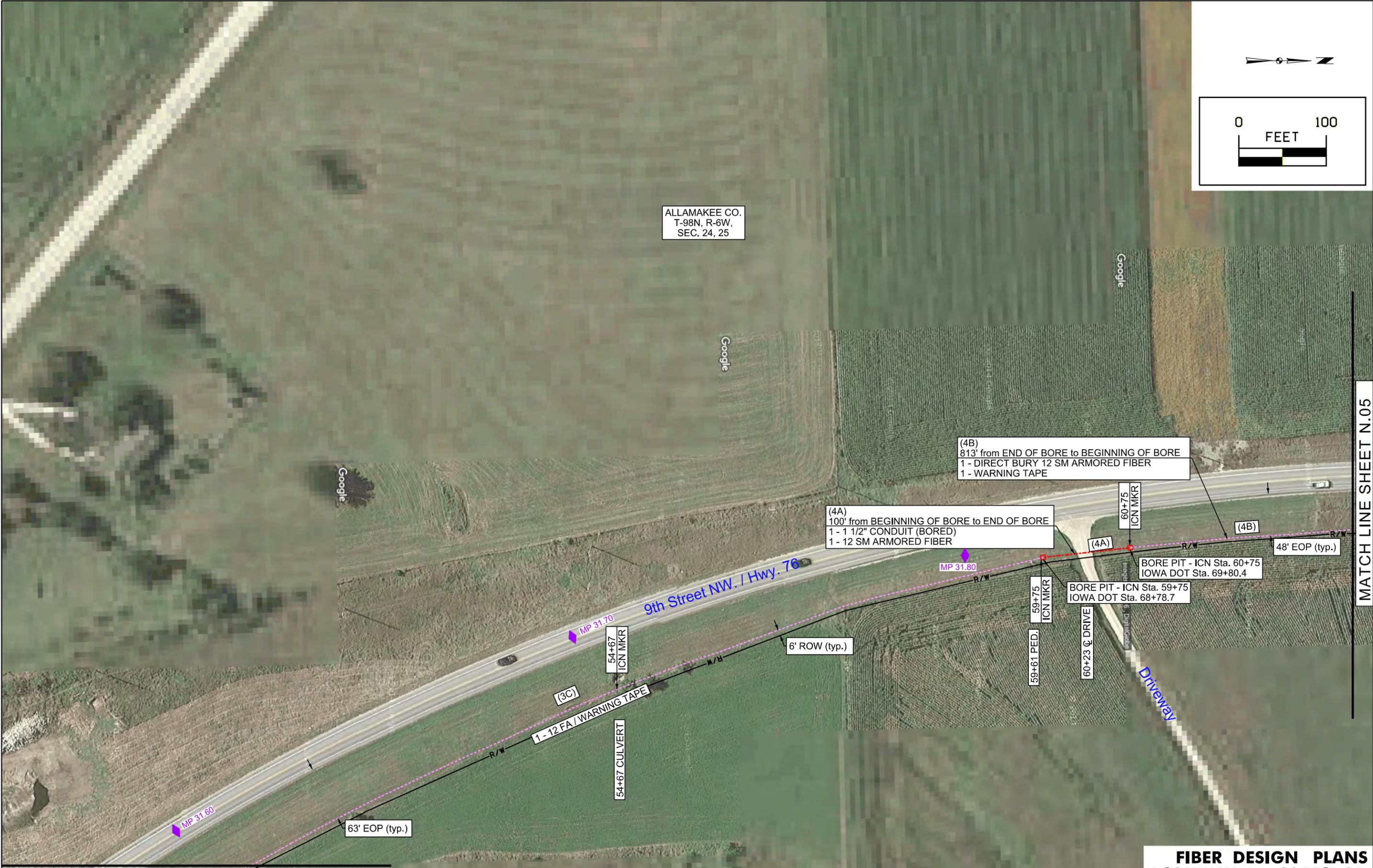
OSP LOG NUMBER 03150105 ALLAMAKEE COUNTY LAW ENFORCEMENT CENTER

SHEET NUMBER N.03



ALLAMAKEE CO.  
T-98N, R-6W,  
SEC. 24, 25

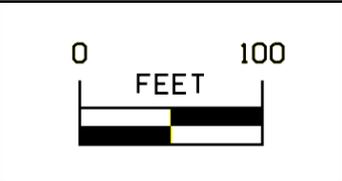
MATCH LINE SHEET N.05



MATCH LINE SHEET N.03

**FIBER DESIGN PLANS  
HIGHWAY 76 CORRIDOR**

ENGLISH	ICN	DESIGN TEAM Olsson Associates	ALLAMAKEE COUNTY	OSP LOG NUMBER 03150105 ALLAMAKEE COUNTY LAW ENFORCEMENT CENTER	SHEET NUMBER N.04
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ALLAMAKEE CO.  
T-98, R-6W,  
SEC.24

MATCH LINE SHEET N.04

MATCH LINE SHEET N.06

MP 31.90

(5A)  
350' from BEGINNING OF BORE to END OF BORE  
1 - 1 1/2" CONDUIT (BORED)  
1 - 12 SM ARMORED FIBER

MP 32.00  
9th Street NW / Hwy. 76

(5B)  
1879' from END OF BORE to BEGINNING OF BORE  
1 - DIRECT BURY 12 SM ARMORED FIBER  
1 - WARNING TAPE

MP 32.10

6' ROW (typ.)

(4B)  
1 - 12 FA / WARNING TAPE

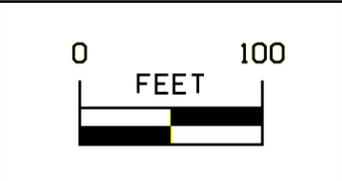
68+88  
ICN MKR  
BORE PIT - ICN Sta. 68+88  
IOWA DOT Sta. 77+98.4

(5A)

72+38  
ICN MKR  
BORE PIT - ICN Sta. 72+38  
IOWA DOT Sta. 81+47.8

(5B)  
45' EOP (typ.)

**FIBER DESIGN PLANS  
HIGHWAY 76 CORRIDOR**



ALLAMAKEE CO.  
T-98N, R-6W,  
SEC. 24

MATCH LINE SHEET N.05

MATCH LINE SHEET N.07

MP 32.20

MP 32.30

MP 32.40

9th Street NW. / Hwy. 76

83+19  
ICN MKR

91+17  
ICN MKR

92+17  
ICN MKR

39' EOP (typ.)

(5B)

1 - 12 FA / WARNING TAPE

89+14 PED.

(6A)  
100' from BEGINNING OF BORE to END OF BORE  
1 - 1 1/2" CONDUIT (BORED)  
1 - 12 SM ARMORED FIBER

BORE PIT - ICN Sta. 91+17  
IOWA DOT Sta. 100+23.4

BORE PIT - ICN Sta. 92+17  
IOWA DOT Sta. 101+22.7

(6B)

35' EOP (typ.)

(6B)  
464' from END OF BORE to BEGINNING OF BORE  
1 - DIRECT BURY 12 SM ARMORED FIBER  
1 - WARNING TAPE

83+52 BEG. CULVERT  
83+72  $\phi$  FIELD ENT.  
83+85 END CULVERT

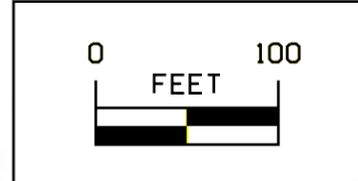
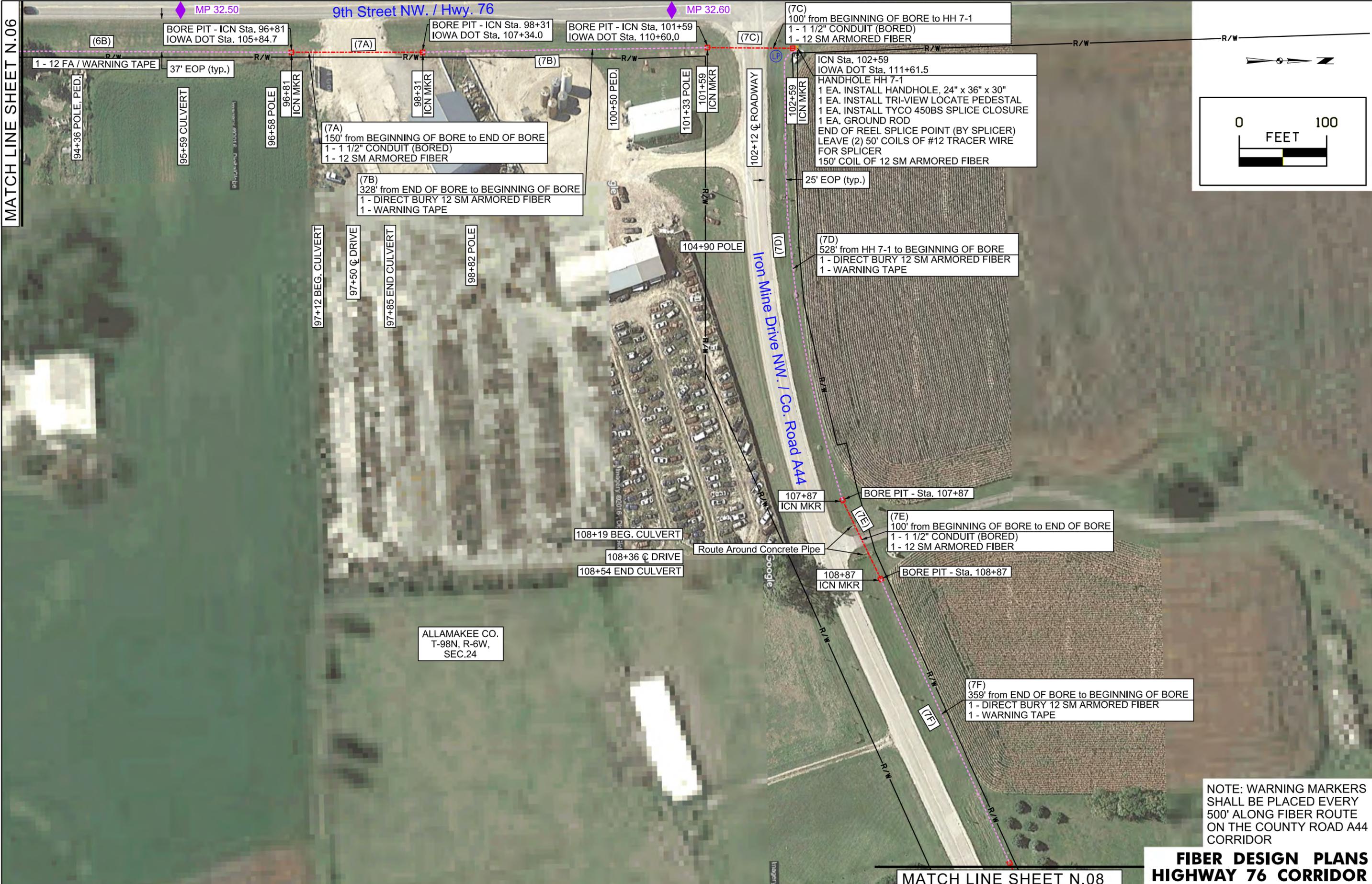
91+29 BEG. CULVERT

91+79  $\phi$  DRIVE

92+08 END CULVERT

**FIBER DESIGN PLANS  
HIGHWAY 76 CORRIDOR**

MATCH LINE SHEET N.06

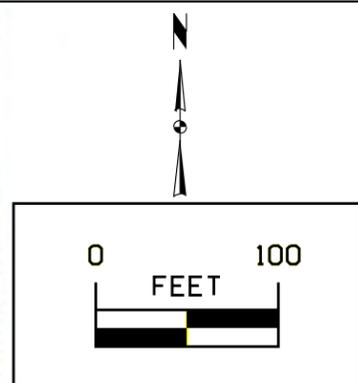


NOTE: WARNING MARKERS SHALL BE PLACED EVERY 500' ALONG FIBER ROUTE ON THE COUNTY ROAD A44 CORRIDOR

**FIBER DESIGN PLANS  
HIGHWAY 76 CORRIDOR**

MATCH LINE SHEET N.08

ENGLISH	ICN	DESIGN TEAM	Olsson Associates	ALLAMAKEE	COUNTY	OSP LOG NUMBER	03150105 ALLAMAKEE COUNTY LAW ENFORCEMENT CENTER	SHEET NUMBER	N.07
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ALLAMAKEE CO.  
T-98N, R-6W/R-5W,  
SEC. 18, 19, 24

MATCH LINE SHEET N.09



MATCH LINE SHEET N.07

112+85 BEG. CULVERT  
112+98 Q DRIVE  
113+11 END CULVERT

BORE PIT - Sta. 116+07

(8A)  
361' from BEGINNING OF BORE to END OF BORE  
1 - 1 1/2" CONDUIT (BORED)  
1 - 12 SM ARMORED FIBER

33' EOP (typ.)

112+46  
ICN MKR

BORE PIT - Sta. 112+46

1 - 12 FA / WARNING TAPE

116+07  
ICN MKR

6' ROW (typ.)

Iron Mine Drive NW / Co. Road A44

121+36  
ICN MKR

(8B)  
1718' from END OF BORE to BEGINNING OF BORE  
1 - DIRECT BURY 12 SM ARMORED FIBER  
1 - WARNING TAPE

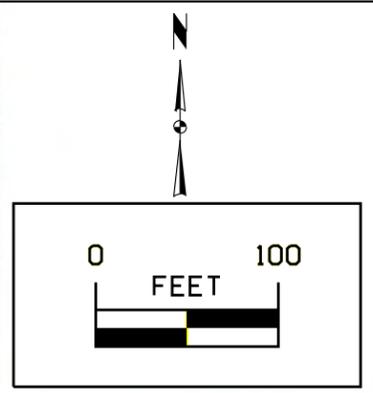
10' ROW (typ.)

25' EOP (typ.)

126+42  
ICN MKR

NOTE: WARNING MARKERS  
SHALL BE PLACED EVERY  
500' ALONG FIBER ROUTE  
ON THE COUNTY ROAD A44  
CORRIDOR

**FIBER DESIGN PLANS  
COUNTY RD A44 CORRIDOR**



MATCH LINE SHEET N.08



(9A)  
404' from BEGINNING OF BORE to END OF BORE  
1 - 1 1/2" CONDUIT (BORED)  
1 - 12 SM ARMORED FIBER

(9B)  
352' from END OF BORE to BEGINNING OF BORE  
1 - DIRECT BURY 12 SM ARMORED FIBER  
1 - WARNING TAPE

(9C)  
376' from BEGINNING OF BORE to END OF BORE  
1 - 1 1/2" CONDUIT (BORED)  
1 - 12 SM ARMORED FIBER

(8B)  
1 - 12 FA / WARNING TAPE

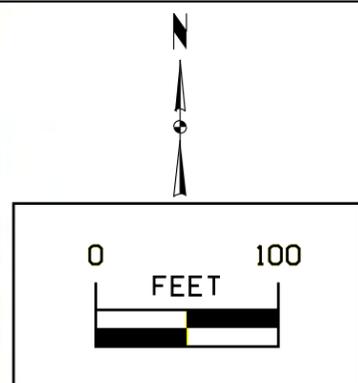
30' EOP (typ.)

27' EOP (typ.)

ALLAMAKEE CO.  
T-98N, R-5W,  
SEC. 18

NOTE: WARNING MARKERS SHALL BE PLACED EVERY 500' ALONG FIBER ROUTE ON THE COUNTY ROAD A44 CORRIDOR

**FIBER DESIGN PLANS  
COUNTY RD A44 CORRIDOR**



ALLAMAKEE CO.  
T-98N, R-5W,  
SEC. 18

(10B)  
235' from BEGINNING OF BORE to END OF BORE  
1 - 1 1/2" CONDUIT (BORED)  
1 - 12 SM ARMORED FIBER

(10A)  
1349' from END OF BORE to BEGINNING OF BORE  
1 - DIRECT BURY 12 SM ARMORED FIBER  
1 - WARNING TAPE

BORE PIT - Sta. 144+56

BORE PIT - Sta. 158+05

(9C)

1 - 12 FA / 1 1/2" HDPE

144+56  
ICN MKR

37' EOP (typ.)

37' EOP (typ.)

154+76  
ICN MKR

156+45 BEG. CULVERT.  
156+71 Q. FIELD ENT.  
156+85 END CULVERT, PED.

(10B)

158+05  
ICN MKR

MATCH LINE SHEET N.11

Iron Mine Drive NW. / Co. Road A44

148+88 PED.

149+50 Q. FIELD ENT.

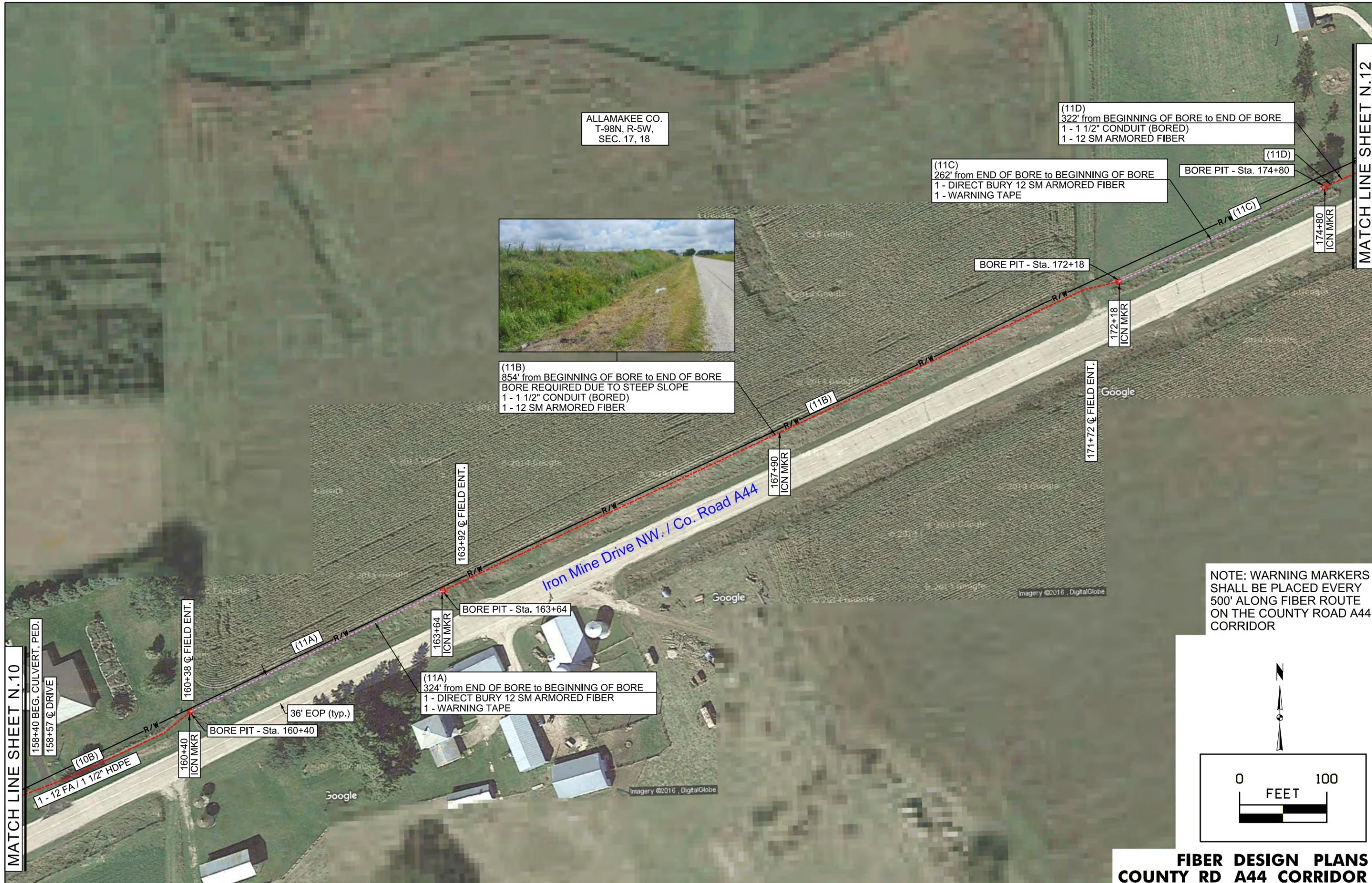
149+75  
ICN MKR

NOTE: WARNING MARKERS  
SHALL BE PLACED EVERY  
500' ALONG FIBER ROUTE  
ON THE COUNTY ROAD A44  
CORRIDOR

MATCH LINE SHEET N.09

**FIBER DESIGN PLANS  
COUNTY RD A44 CORRIDOR**

ENGLISH	ICN	DESIGN TEAM	Olsson Associates	ALLAMAKEE	COUNTY	OSP LOG NUMBER	03150105 ALLAMAKEE COUNTY LAW ENFORCEMENT CENTER	SHEET NUMBER	N.10
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MATCH LINE SHEET N.10

MATCH LINE SHEET N.12

ALLAMAKEE CO.  
T-98N, R-5W,  
SEC. 17, 18

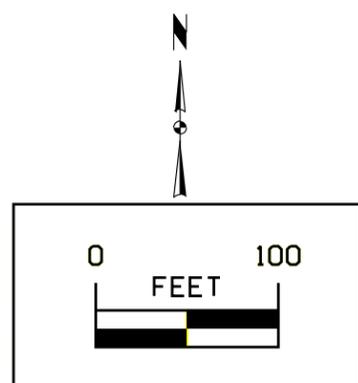
(11D)  
322' from BEGINNING OF BORE to END OF BORE  
1 - 1 1/2" CONDUIT (BORED)  
1 - 12 SM ARMORED FIBER

(11C)  
262' from END OF BORE to BEGINNING OF BORE  
1 - DIRECT BURY 12 SM ARMORED FIBER  
1 - WARNING TAPE

(11B)  
854' from BEGINNING OF BORE to END OF BORE  
BORE REQUIRED DUE TO STEEP SLOPE  
1 - 1 1/2" CONDUIT (BORED)  
1 - 12 SM ARMORED FIBER

(11A)  
324' from END OF BORE to BEGINNING OF BORE  
1 - DIRECT BURY 12 SM ARMORED FIBER  
1 - WARNING TAPE

NOTE: WARNING MARKERS SHALL BE PLACED EVERY 500' ALONG FIBER ROUTE ON THE COUNTY ROAD A44 CORRIDOR



**FIBER DESIGN PLANS  
COUNTY RD A44 CORRIDOR**



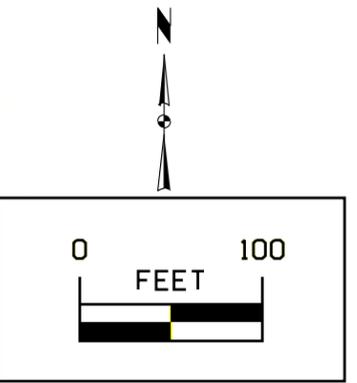
(12A)  
459' from END OF BORE to BEGINNING OF BORE  
1 - DIRECT BURY 12 SM ARMORED FIBER  
1 - WARNING TAPE

(12B)  
594' from BEGINNING OF BORE to END OF BORE  
1 - 1 1/2" CONDUIT (BORED)  
1 - 12 SM ARMORED FIBER

(12C)  
1544' from END OF BORE to BEGINNING OF BORE  
1 - DIRECT BURY 12 SM ARMORED FIBER  
1 - WARNING TAPE

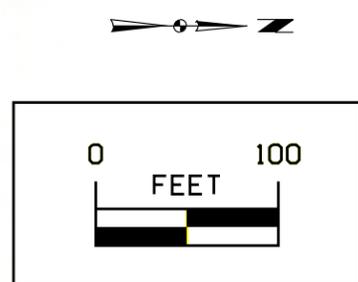
MATCH LINE SHEET N.11

NOTE: WARNING MARKERS SHALL BE PLACED EVERY 500' ALONG FIBER ROUTE ON THE COUNTY ROAD A44 CORRIDOR



**FIBER DESIGN PLANS  
COUNTY RD A44 CORRIDOR**

ALLAMAKEE CO.  
T-98N, R-5W,  
SEC. 17



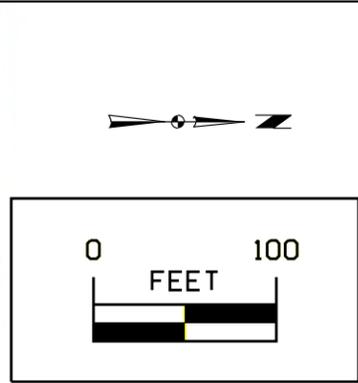
**FIBER DESIGN PLANS  
HIGHWAY 9 CORRIDOR**



MATCH LINE SHEET N.13

MATCH LINE SHEET N.15

ALLAMAKEE CO.  
T-98N, R-5W,  
SEC. 8, 17

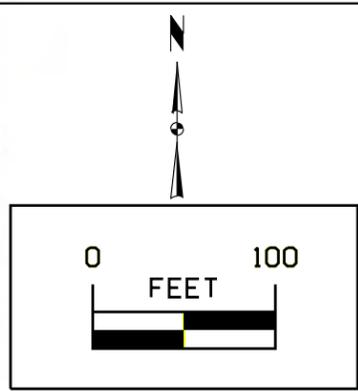
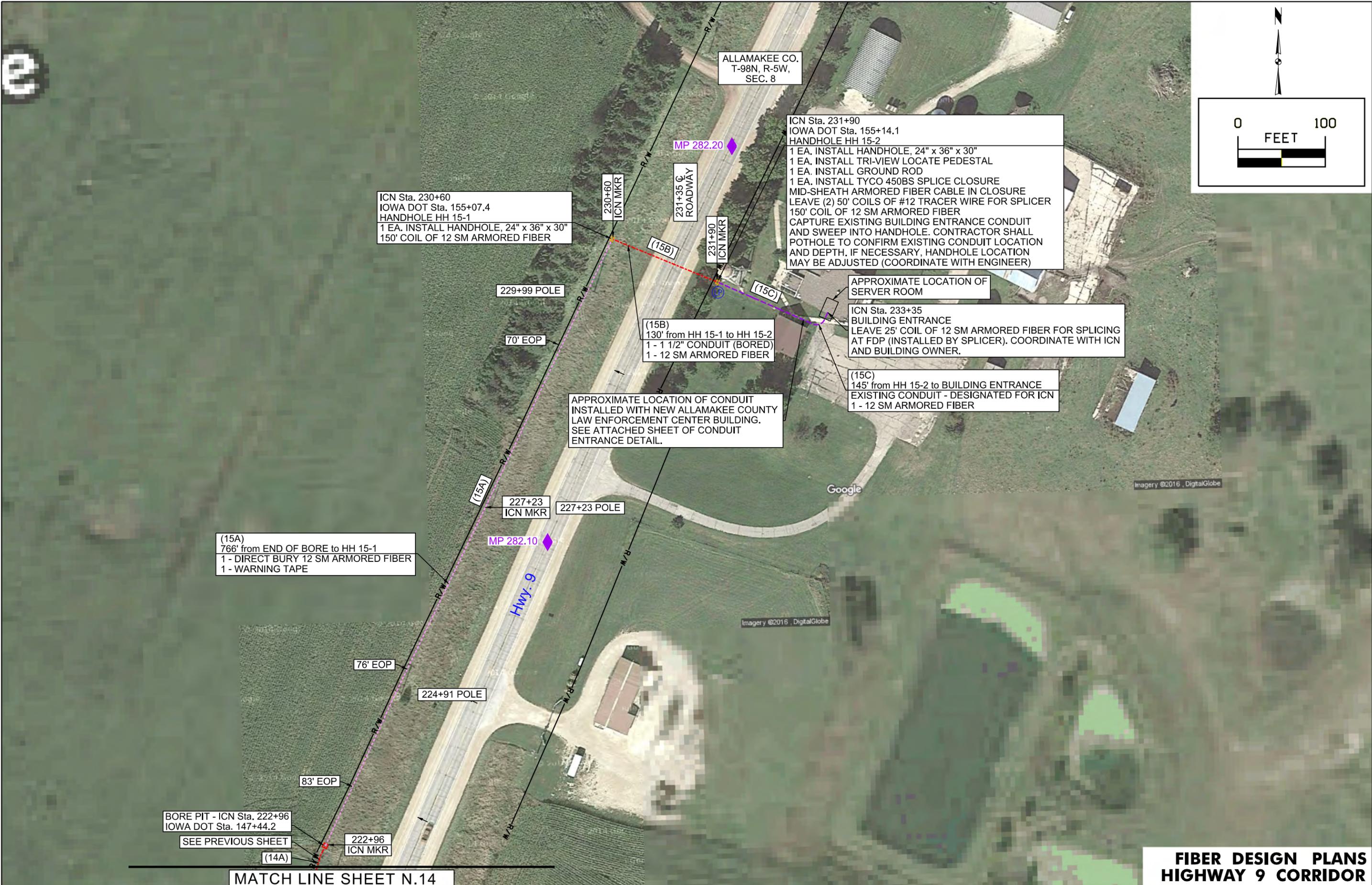


(14A)  
207' from BEGINNING OF BORE to END OF BORE  
1 - 1 1/2" CONDUIT (BORED)  
1 - 12 SM ARMORED FIBER

BORE PIT - ICN Sta. 220+92  
IOWA DOT Sta. 145+41.8

**FIBER DESIGN PLANS  
HIGHWAY 9 CORRIDOR**

ENGLISH	ICN	DESIGN TEAM Olsson Associates	ALLAMAKEE COUNTY	OSP LOG NUMBER 03150105 ALLAMAKEE COUNTY LAW ENFORCEMENT CENTER	SHEET NUMBER N.14
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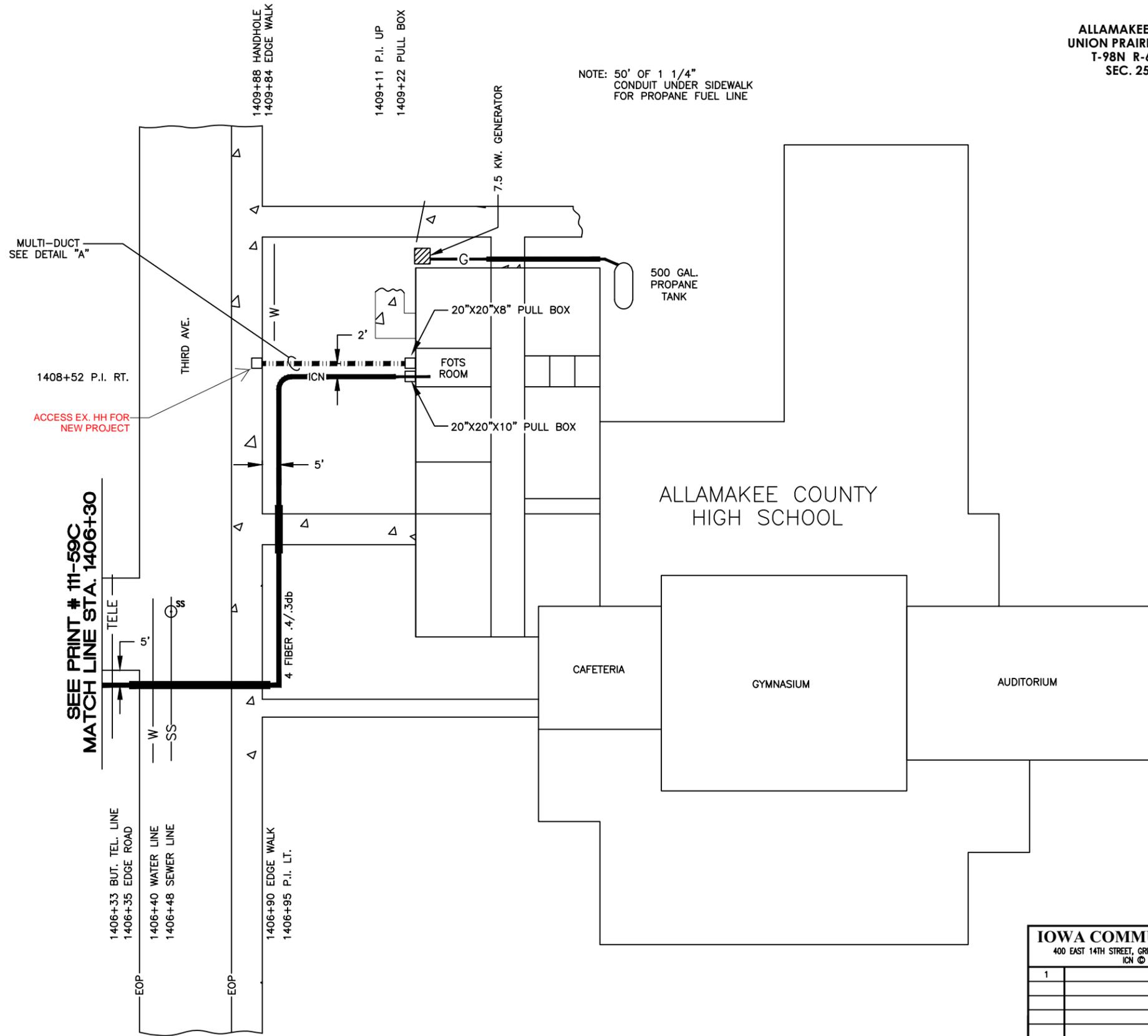


**FIBER DESIGN PLANS  
HIGHWAY 9 CORRIDOR**

ALLAMAKEE CO.  
UNION PRAIRIE TWP.  
T-98N R-6W  
SEC. 25



NOTE: 50' OF 1 1/4"  
CONDUIT UNDER SIDEWALK  
FOR PROPANE FUEL LINE



**DETAIL "A"**

ICN MULTI-DUCT

			# OF FIBERS OWNED
(1)			
(2)			
(3)			
(4)			

**WAUKON**  
**ALLAMAKEE COUNTY H.S.**  
1105 3RD AVE. NW  
WAUKON, IA 52172

<b>IOWA COMMUNICATIONS NETWORK</b>		THIS DRAWING IS PROVIDED FOR GENERAL INFORMATION ONLY AND IS NOT TO BE USED TO DETERMINE PRECISE ICN PLACEMENT. CALL ONE CALL BEFORE EXCAVATION (1-800-292-8989)	
400 EAST 14TH STREET, GRIMES STATE OFFICE BUILDING, DES MOINES, IOWA 50319 ICN © 2010 , COPY WITH PERMISSION			
1	AS-BUILT	8-27-96	SCALE: 1" = 50'
			SIZE: 11 x 17
			ALLAMAKEE COUNTY HS 1105 3RD AVE. NW WAUKON, IA 52172
			WAKNHS

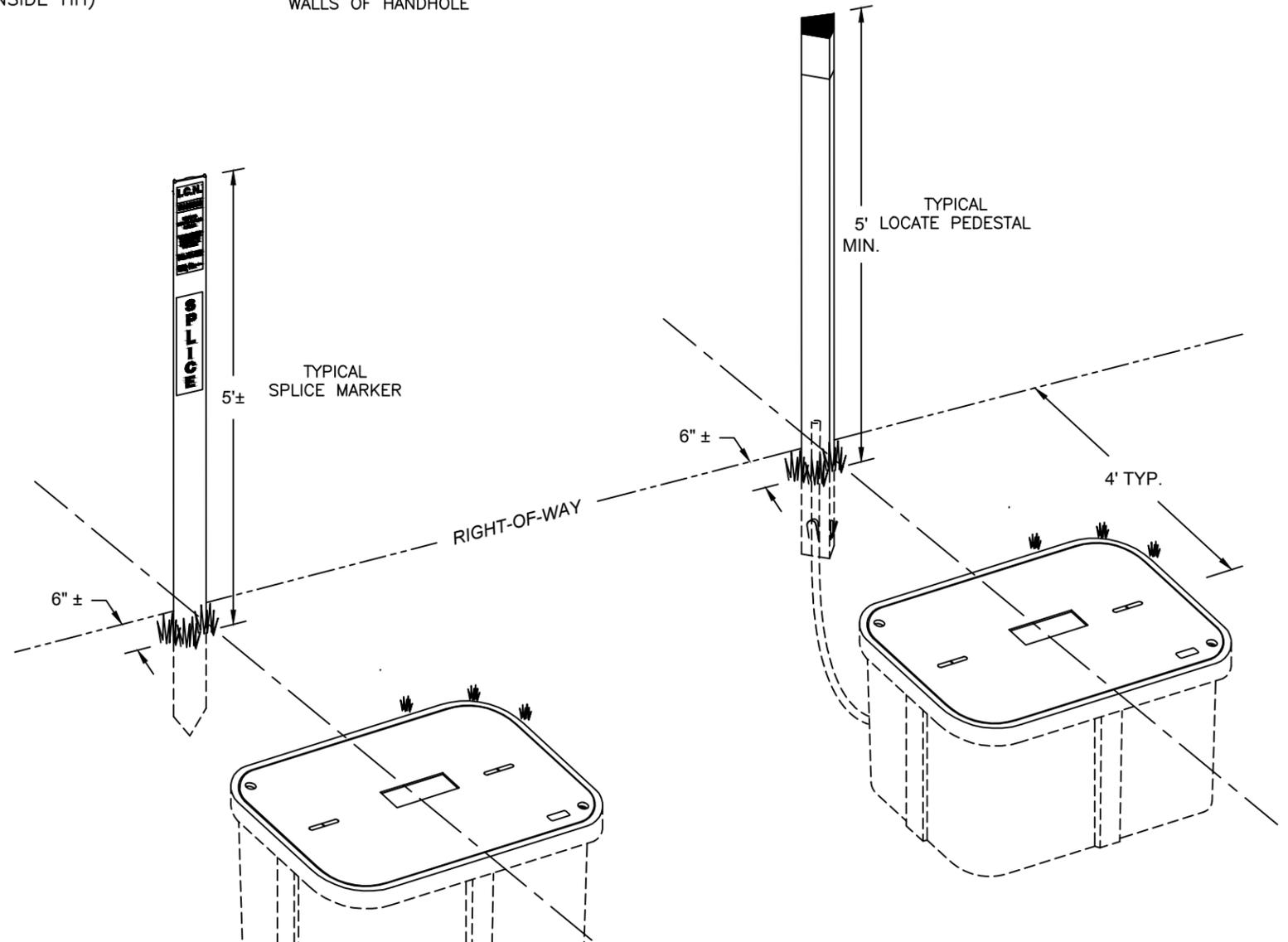
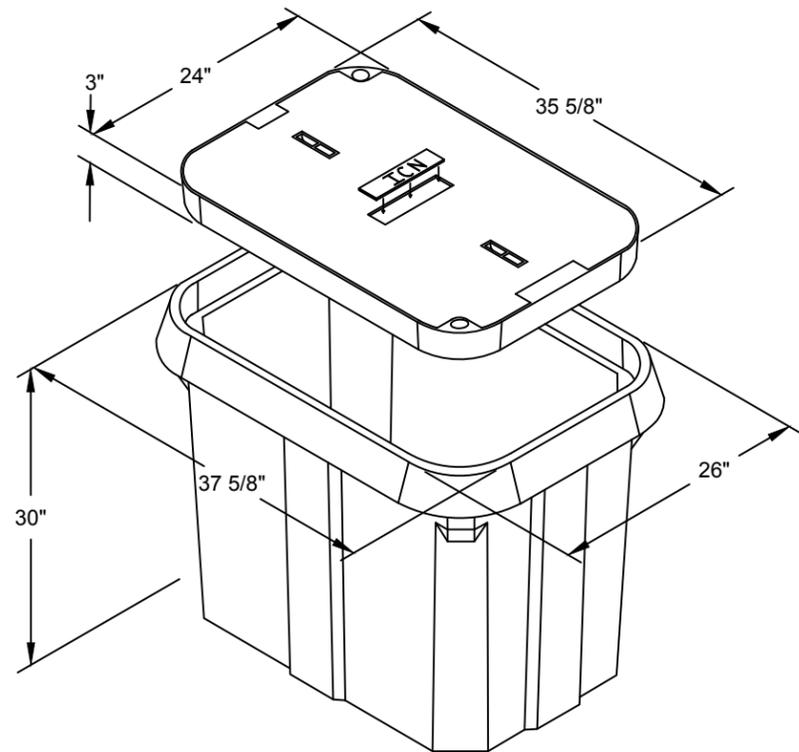
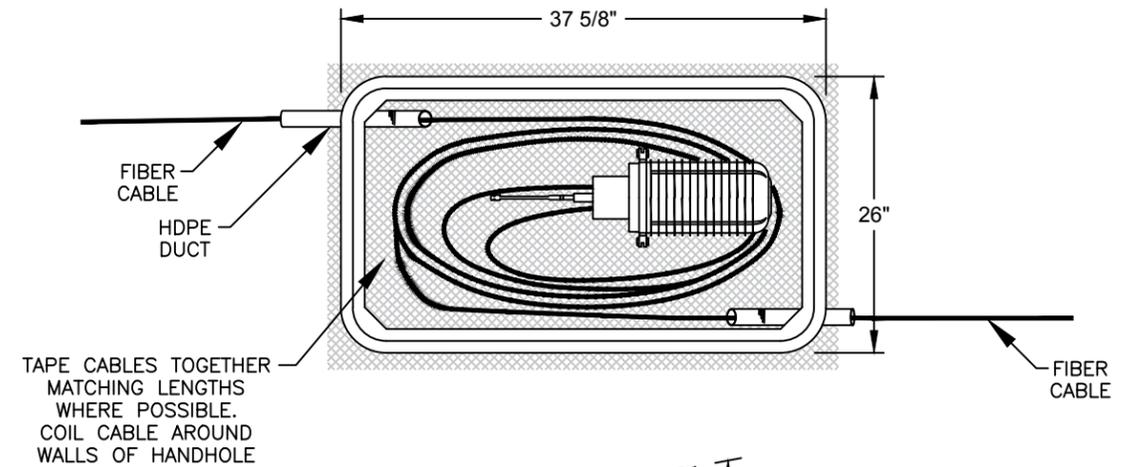
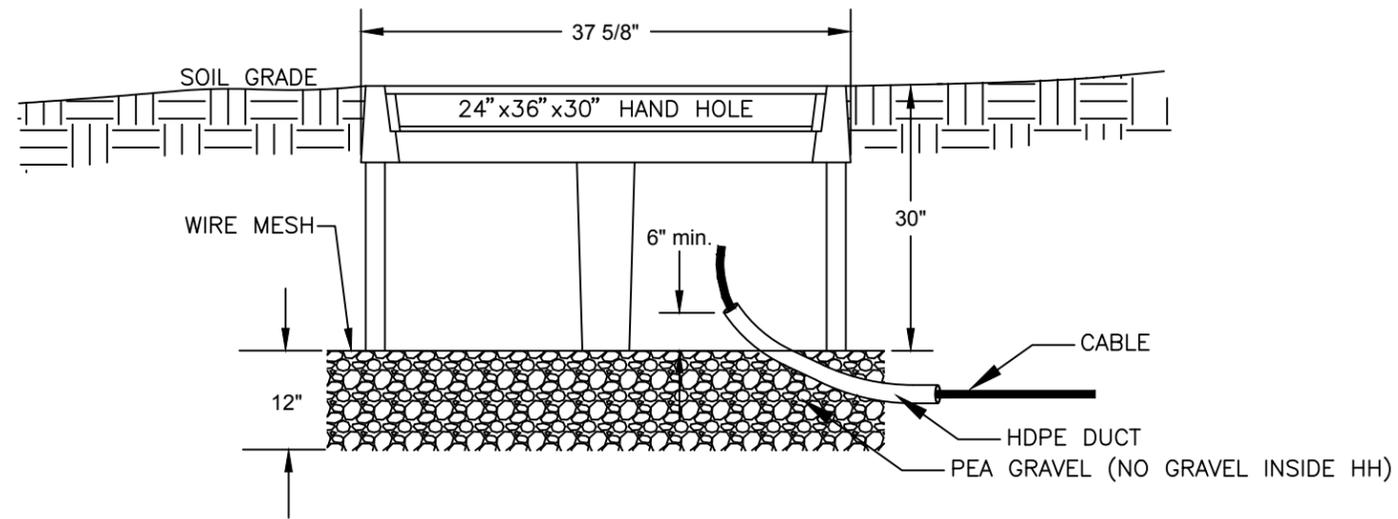
APPROX. SCALE: 1" = 50'

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# HANDHOLE PLACEMENT TYPICAL

24" X 36" X 30" NEW BASIS HAND HOLE



IOWA COMMUNICATIONS NETWORK

GRIMES STATE OFFICE BUILDING  
400 EAST 14TH STREET  
DES MOINES, IOWA 50319  
ICN © 2014, COPY WITH PERMISSION

THIS DRAWING IS PROVIDED FOR GENERAL  
INFORMATION ONLY AND IS NOT TO BE USED  
TO DETERMINE PRECISE ICN PLACEMENT.  
CALL ONE CALL BEFORE EXCAVATION  
(1-800-292-8989 OR 811)

CONSTRUCTION DETAIL  
HANDHOLE TYPICAL - NEW BASIS PC243630SN20  
24" x 36" x 30"

TYPICAL HANDHOLE

SCALE: NONE

SIZE: 11 x 17

1	REVISION	3-27-12	5
2	REVISION	7-16-14	6
3	REVISION	11-10-14	7
4	REVISION	8-21-15	8

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# TYPICAL INSTALLATION OF HIDE-OUT LOCATE STATION

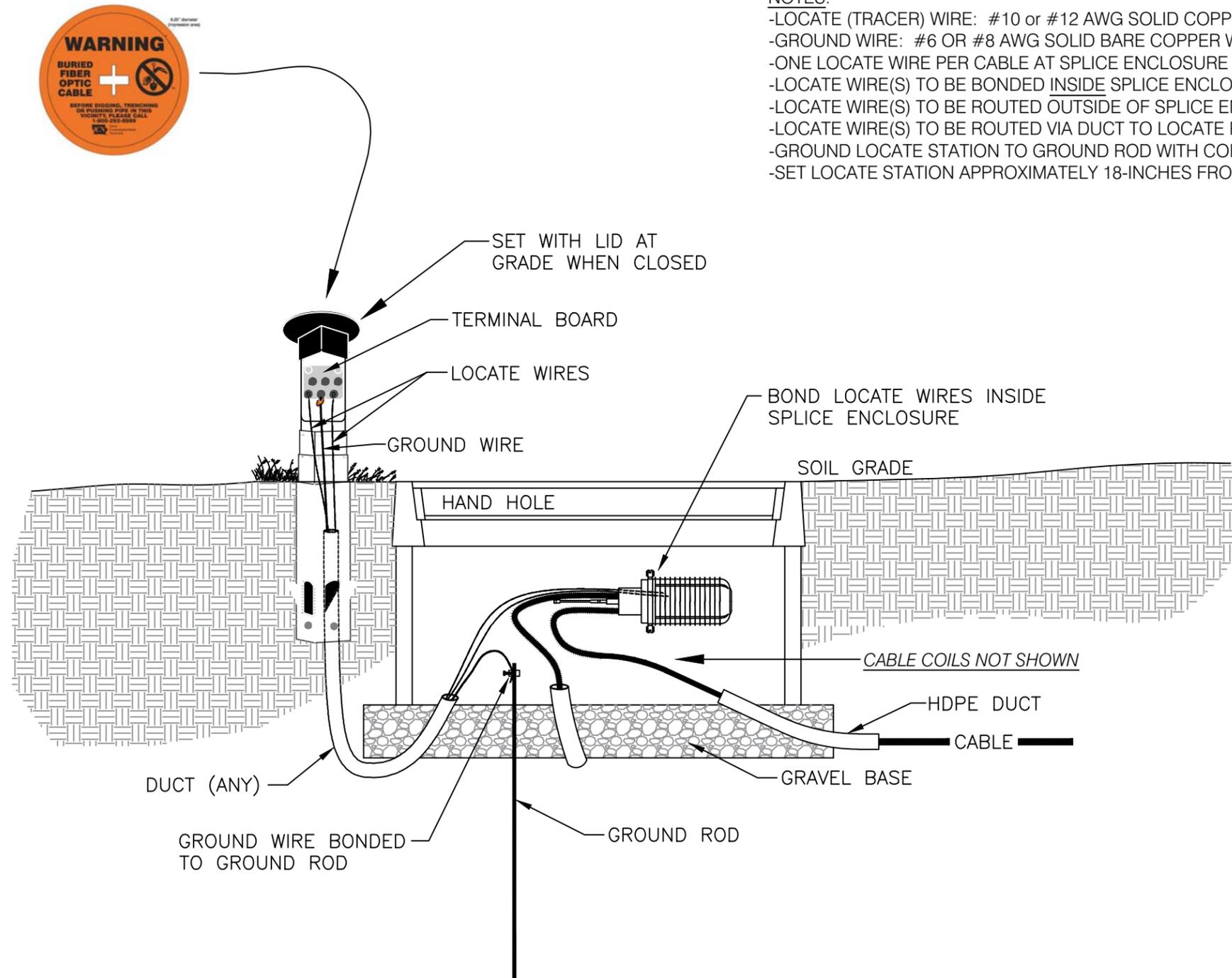
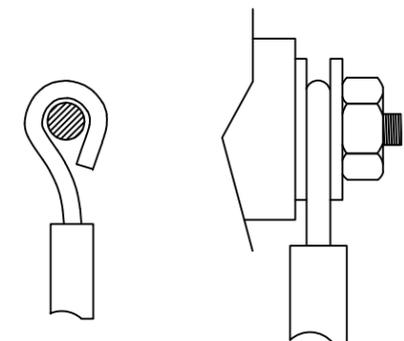
**NOTES:**

- LOCATE (TRACER) WIRE: #10 or #12 AWG SOLID COPPER WIRE
- GROUND WIRE: #6 OR #8 AWG SOLID BARE COPPER WIRE
- ONE LOCATE WIRE PER 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 STATION TO GROUND ROD WITH COPPER WIRE AND GROUND CLAMP
- SET LOCATE STATION APPROXIMATELY 18-INCHES FROM THE HANDHOLE OR STRUCTURE

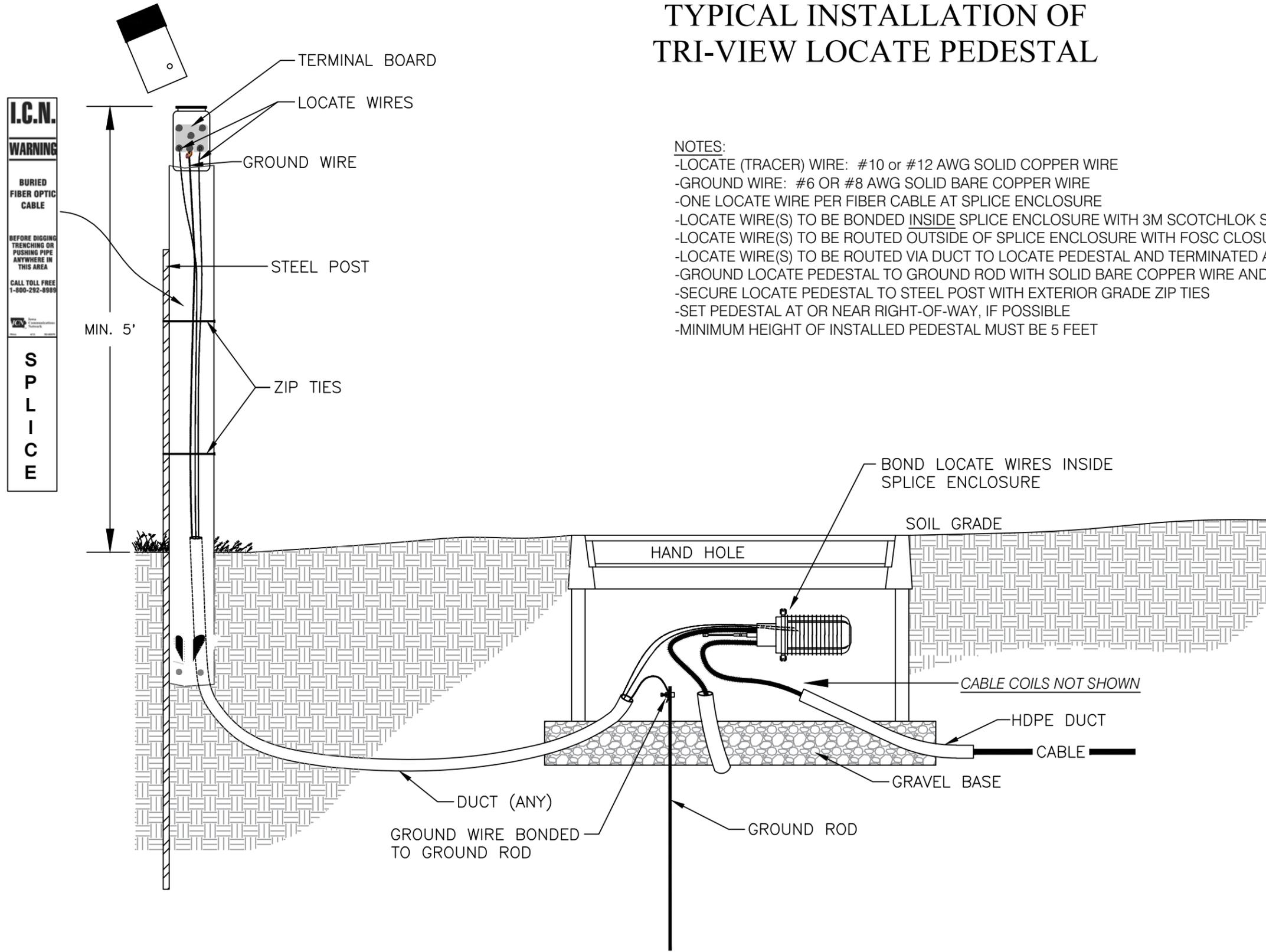
TRACER WIRE TERMINATION DETAIL

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.



# 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 TO STEEL POST WITH EXTERIOR GRADE ZIP TIES
- 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.

