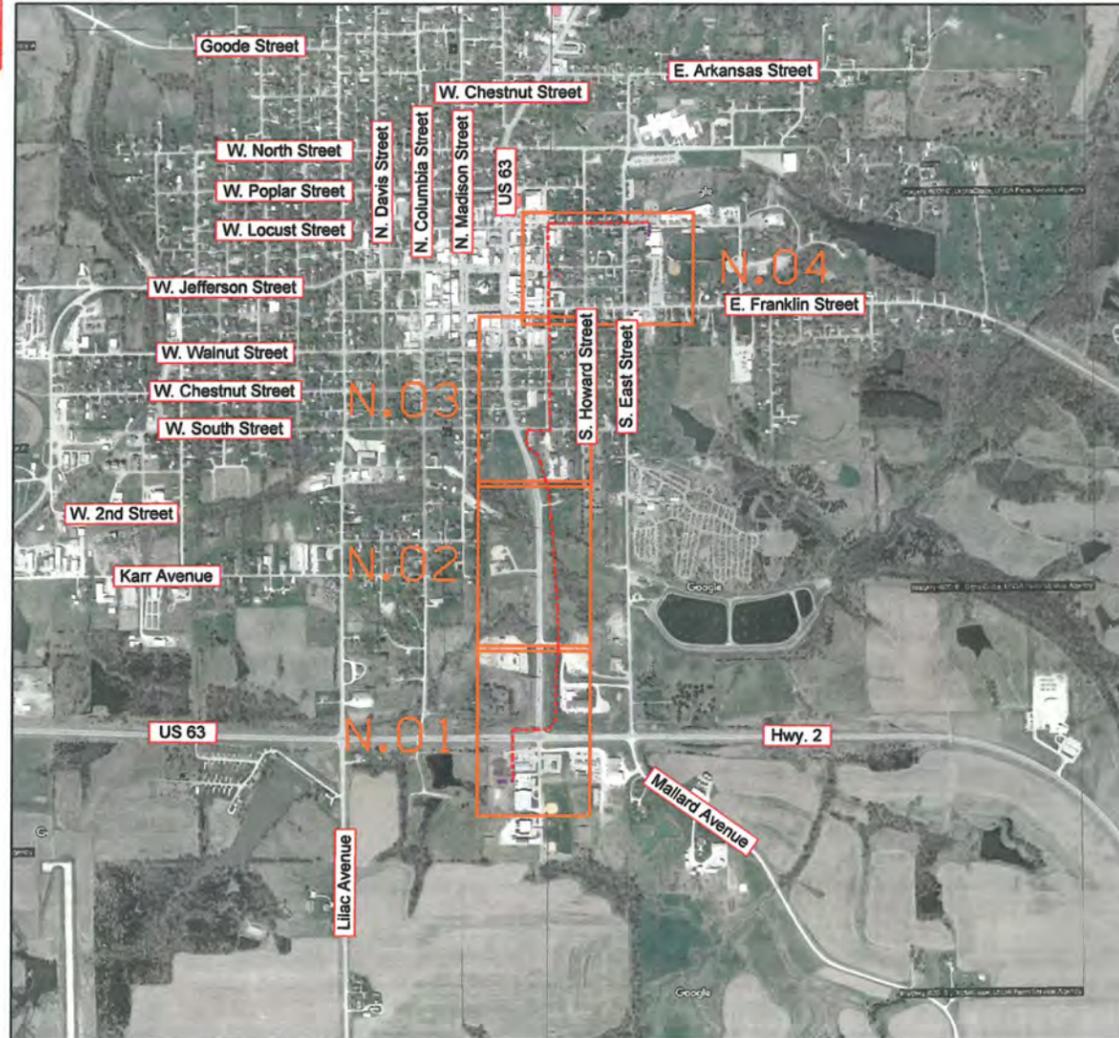
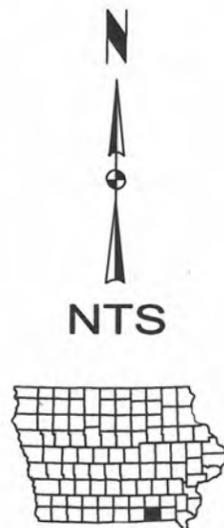




DAVIS COUNTY, IOWA
 IOWA COMMUNICATIONS NETWORK
 DAVIS COUNTY LAW ENFORCEMENT
 CENTER

102 ANDERSON STREET, BLOOMFIELD, IOWA

PROJECT COORDINATION CONTACTS			
NAME	AGENCY	PHONE	EMAIL
TIM FLICKINGER	ICN	515-725-4699	TIMOTHY.FLICKINGER@IOWA.GOV
TED HENDERSON	CITY OF BLOOMFIELD PUBLIC WORKS	641-664-2260	
BRENDA SANDERS	IOWA DOT DISTRICT 5	641-883-3331	



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.04	FIBER PLANS FIBER DESIGN
ATTACHMENTS	DAVIS COUNTY HIGH SCHOOL CONDUIT PLANS DAVIS COUNTY LAW ENFORCEMENT CENTER UTILITY PLANS ICN TYPICAL DETAILS FOR: - HANDHOLES - TRI-VIEW LOCATE PEDESTAL - HIDEOUT LOCATE PEDESTAL

PERMITS REQUIRED	
SHT. NO.	PERMIT
N.01-N.03	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 8-11-2016
 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.04

LEGEND AND SYMBOLS

SPLICE-W/LOC. STATION		ROUTE MARKERS	
SPLICE-NO LOC. STATION		POLE	
FIBER CHANGE (BID & CONST. ISSUE)		POLE W/ANCHOR	
CASING PIPE (PVC OR STEEL)		TILE INTAKE	
(GALV. IRON PIPE) G.I.P.		MILE POST MARKER	
RIGHT-OF-WAY LINE(phantom linetype)		CULVERT	
CENTER LINE(center linetype)		BRIDGE	
FENCE LINE		TREE & VEGETATION	
PROPERTY LINE		STREET SIGN	
EDGE OF GRAVEL		FIRE HYDRANT	
EDGE OF PAVEMENT		STREET LIGHT	
EDGE OF CONCRETE		MANHOLES	
CITY, COUNTY OR STATE BOUNDARY		REMOVE & REPLACE	
SECTION LINE		FLOW LINE	
TEMP. EASEMENT		CUT & REPLACE	
BACK OF CURB		DITCH LINE	
CONCRETE SIDEWALK		UTILITY PEDESTAL	
GAS LINE		WATER METER	
STORM SEWER		GAS METER	
SANITARY SEWER		GAS MARKER	
TELEPHONE LINE		TELEPHONE MARKER	
WATER LINE		R/W MARKER	
UNDERGROUND ELECTRIC		DRAIN	
SUBSURFACE DRAIN TILE		RAILROAD SIGNAL/SIGN	
OVERHEAD ELEC.		GROUND	
		GROUND ROD	
		MAILBOX	

UNIQUE SYMBOLS FOR THIS PROJECT		
EXISTING	PROPOSED	DESCRIPTIONS
		ICN Bored Conduit
		Existing Conduit
		ICN Plowed Conduit
		ICN Handhole
		Locate Point

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



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.

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	5,407	
5	1 1/2" HDPE CONDUIT, PLOWED*	LINEAR FT	1,299	
6	12 SM DIELECTRIC FIBER	LINEAR FT	7,007	
7	12 SM DIELECTRIC FIBER (COIL)	LINEAR FT	1,000	
8	WARNING TAPE	LINEAR FT	1,299	
9	ICN TRI-VIEW LOCATE PEDESTAL	EACH	1	
10	ICN HIDEOUT LOCATE PEDESTAL	EACH	1	
11	ICN ROUTE MARKER - WARNING	EACH	8	
12	#12 TRACER WIRE	LINEAR FT	7,007	
13	GROUND ROD	EACH	2	

*CONDUIT BORE AND PLOW DISTANCES SHOWN ON PLANS ARE ESTIMATED FOR CONSTRUCTION. THE CONTRACTOR MAY PLOW IN LIEU OF BORING WHERE EXISTING CONDITIONS ALLOW.

PROJECT DESCRIPTION

PROJECT SUMMARY

ICN FIBER OPTIC INSTALLATION PROJECT IN DAVIS COUNTY.

ICN PROVIDING NEW FIBER OPTIC TO DAVIS COUNTY LAW ENFORCEMENT CENTER; NEW BUILDING BEING CONSTRUCTED.

THIS PROJECT INVOLVES INSTALLING A 12 STRAND FIBER CONNECTION FROM THE NEW DAVIS COUNTY LAW ENFORCEMENT CENTER AT 102 ANDERSON STREET, BLOOMFIELD, IA TO DAVIS COUNTY HIGH SCHOOL AT 503 E. LOCUST STREET, BLOOMFIELD, IA. APPROXIMATELY 7,000 FEET OF UNDERGROUND CONDUIT WILL BE INSTALLED, WHICH WILL CONSIST OF A COMBINATION OF DIRECTIONAL BORING AND PLOWING (1) 1 1/2" HDPE CONDUIT. 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	1 1/2" HDPE Conduit, Plowed	12 SM Dielectric Fiber
	From	To				
1A	BUILDING ENTRANCE (Sta. 0+00)	HH 1-1 (Sta. 1+71)	171	-	-	171
1B	HH 1-1 (Sta. 1+71)	HH 1-2 (Sta. 6+44)	473	473	-	473
1C	HH 1-2 (Sta. 6+44)	HH 1-3 (Sta. 9+75)	331	331	-	331
1D	HH 1-3 (Sta. 9+75)	BEGINNING OF BORE (Sta. 17+19)	744	-	744	744
1E	BEGINNING OF BORE (Sta. 17+19)	END OF BORE (Sta. 18+19)	100	100	-	100
2A	END OF BORE (Sta. 18+19)	BEGINNING OF BORE (Sta. 20+86)	267	-	267	267
2B	BEGINNING OF BORE (Sta. 20+86)	END OF BORE (Sta. 35+42)	1456	1456	-	1456
3A	END OF BORE (Sta. 35+42)	HH 3-1 (Sta. 38+30)	288	-	288	288
3B	HH 3-1 (Sta. 38+30)	HH 4-1 (Sta. 55+80)	1750	1750	-	1750
4A	HH 4-1 (Sta. 55+80)	HH 4-2 (Sta. 59+48)	368	368	-	368
4B	HH 4-2 (Sta. 59+48)	HH 4-3E (Sta. 68+77)	929	929	-	929
4C	HH 4-3E (Sta. 68+77)	BUILDING ENTRANCE (Sta. 70+07)	130	-	-	130
			Totals	5407	1299	7007

LISTING OF HANDHOLE WORK

Handhole Label	Handhole Type	Route	ICN Station	Tri-View Locate Pedestal	Hideout Locate Pedestal	12 SM Dielectric Fiber Coil
HH 1-1	24" x 36" x 30"	Hwy. 63	1+71	1		150
HH 1-2	24" x 36" x 30"	Hwy. 63	6+44			150
HH 1-3	24" x 36" x 30"	Hwy. 63	9+75			150
HH 3-1	24" x 36" x 30"	E. South Street	38+30			150
HH 4-1	24" x 36" x 30"	S. Dodge Street	55+80			150
HH 4-2	24" x 36" x 30"	E. Locust Street	59+48		1	150
HH 4-3E	EXISTING	E. Locust Street	68+77			50
			Total	1	1	950

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

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

DAVIS

COUNTY

OSP LOG NUMBER

26160105 DAVIS COUNTY LAW ENFORCEMENT CENTER

SHEET NUMBER

C.02

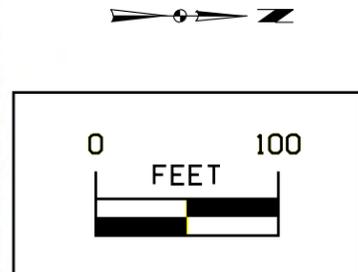
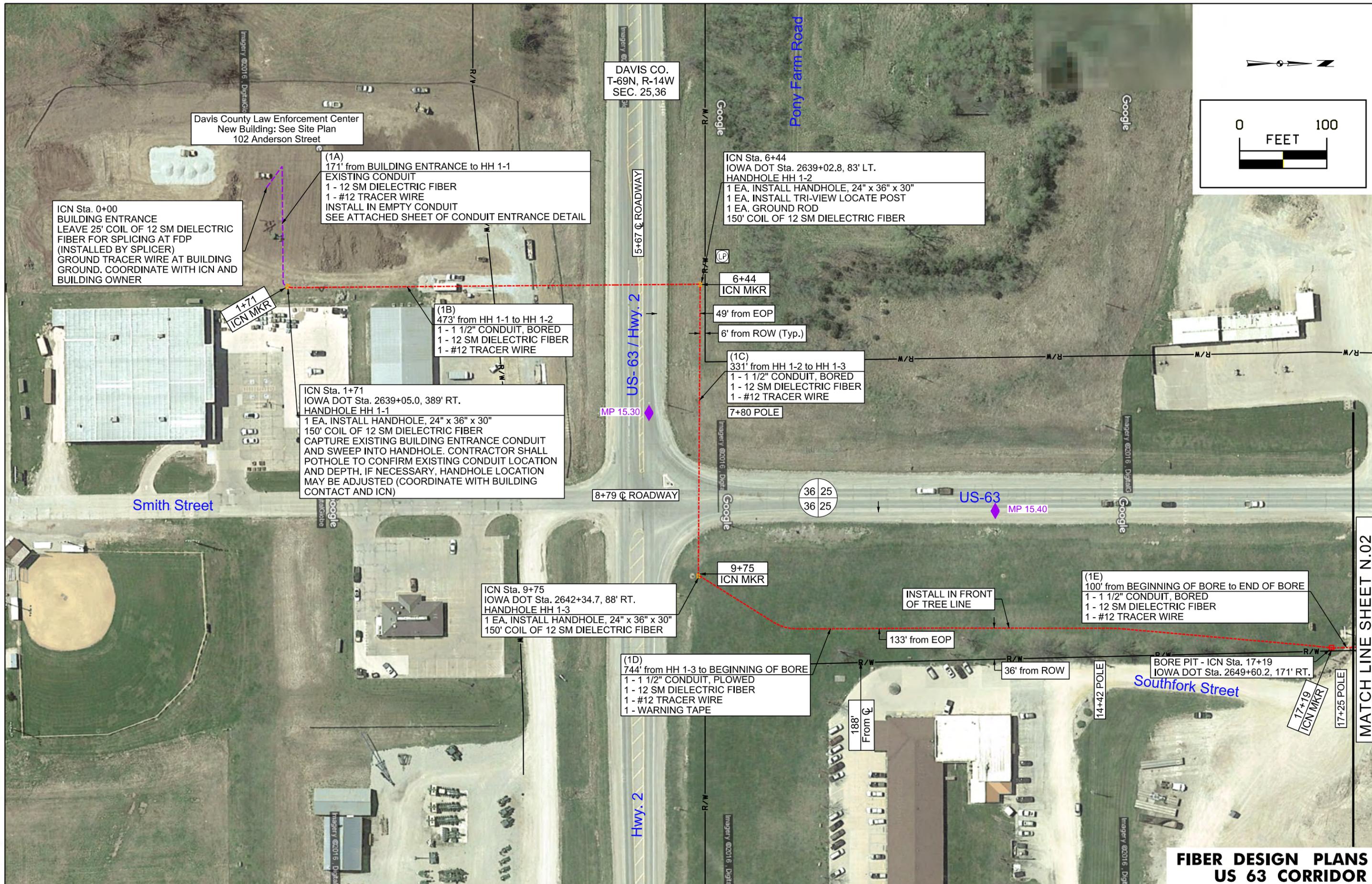
UTILITY CONTACTS

Company	Name	Street	City, State, Zip	Phone
CITY OF BLOOMFIELD ELECTRIC PLANT	MIKE HUMPHREY	111 W. FRANKLIN STREET	BLOOMFIELD, IA 52537	641-664-2260, EXT. 18
CITY OF BLOOMFIELD GAS	KEITH SULLIVAN	111 W. FRANKLIN STREET	BLOOMFIELD, IA 52537	641-664-2260, EXT. 24
CITY OF BLOOMFIELD PUBLIC WORKS	TED HENDERSON	111 W. FRANKLIN STREET	BLOOMFIELD, IA 52537	641-664-2260
CITY OF BLOOMFIELD STREETS	GARRY FELDMANN	111 W. FRANKLIN STREET	BLOOMFIELD, IA 52537	641-664-2092
CITY OF BLOOMFIELD WASTE WATER	JEREMY WALKER	111 W. FRANKLIN STREET	BLOOMFIELD, IA 52537	641-664-3071
CITY OF BLOOMFIELD WATER DISTRIBUTION	MARK MCFARLAND	111 W. FRANKLIN STREET	BLOOMFIELD, IA 52537	641-664-2260, EXT. 19
DAVIS COUNTY COMMUNITY HIGH SCHOOL	MEGHAN SHIVELY			641-664-2200, EXT. 1202
DAVIS COUNTY LAW ENFORCEMENT CENTER	SHERRI THORDARSON			641-664-2385
DAVIS COUNTY LAW ENFORCEMENT CENTER BUILDING CONSTRUCTION	JOHN HANSON			319-759-2330
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 5	BRENDA SANDERS	2930 N. COURT ROAD	OTTUMWA, IA 52501	641-683-3331

NOTE 1: 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.

NOTE 2: EXISTING UTILITY CONFLICTS: ANY CHANGES TO THE PLANNED RUNNING LINE REQUIRE PRE-APPROVAL BY THE ICN AND ROW AUTHORITY HAVING JURISDICTION. THE PLAN FOR PARALLEL UTILITIES WOULD BE TO ADJUST THE RUNNING LINE BY AN APPROPRIATE OFFSET (APPROXIMATELY 2') OR CHANGE DEPTH OF THE INSTALLATION DEPENDING ON ROW AVAILABILITY.

UTILITY CONTACTS



ICN Sta. 0+00
 BUILDING ENTRANCE
 LEAVE 25' COIL OF 12 SM DIELECTRIC FIBER FOR SPLICING AT FDP (INSTALLED BY SPLICER)
 GROUND TRACER WIRE AT BUILDING GROUND. COORDINATE WITH ICN AND BUILDING OWNER

(1A)
 171' from BUILDING ENTRANCE to HH 1-1
 EXISTING CONDUIT
 1 - 12 SM DIELECTRIC FIBER
 1 - #12 TRACER WIRE
 INSTALL IN EMPTY CONDUIT
 SEE ATTACHED SHEET OF CONDUIT ENTRANCE DETAIL

(1B)
 473' from HH 1-1 to HH 1-2
 1 - 1 1/2" CONDUIT, BORED
 1 - 12 SM DIELECTRIC FIBER
 1 - #12 TRACER WIRE

ICN Sta. 1+71
 IOWA DOT Sta. 2639+05.0, 389' RT.
 HANDHOLE HH 1-1
 1 EA. INSTALL HANDHOLE, 24" x 36" x 30"
 150' COIL OF 12 SM DIELECTRIC FIBER
 CAPTURE EXISTING BUILDING ENTRANCE CONDUIT AND SWEEP INTO HANDHOLE. CONTRACTOR SHALL POTHOLE TO CONFIRM EXISTING CONDUIT LOCATION AND DEPTH. IF NECESSARY, HANDHOLE LOCATION MAY BE ADJUSTED (COORDINATE WITH BUILDING CONTACT AND ICN)

ICN Sta. 6+44
 IOWA DOT Sta. 2639+02.8, 83' LT.
 HANDHOLE HH 1-2
 1 EA. INSTALL HANDHOLE, 24" x 36" x 30"
 1 EA. INSTALL TRI-VIEW LOCATE POST
 1 EA. GROUND ROD
 150' COIL OF 12 SM DIELECTRIC FIBER

(1C)
 331' from HH 1-2 to HH 1-3
 1 - 1 1/2" CONDUIT, BORED
 1 - 12 SM DIELECTRIC FIBER
 1 - #12 TRACER WIRE

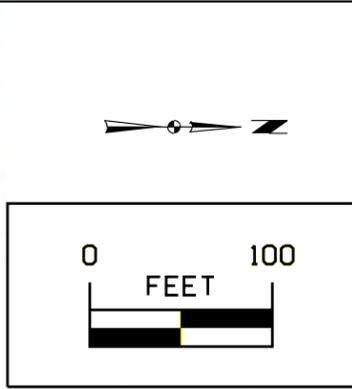
ICN Sta. 9+75
 IOWA DOT Sta. 2642+34.7, 88' RT.
 HANDHOLE HH 1-3
 1 EA. INSTALL HANDHOLE, 24" x 36" x 30"
 150' COIL OF 12 SM DIELECTRIC FIBER

(1E)
 100' from BEGINNING OF BORE to END OF BORE
 1 - 1 1/2" CONDUIT, BORED
 1 - 12 SM DIELECTRIC FIBER
 1 - #12 TRACER WIRE

(1D)
 744' from HH 1-3 to BEGINNING OF BORE
 1 - 1 1/2" CONDUIT, PLOWED
 1 - 12 SM DIELECTRIC FIBER
 1 - #12 TRACER WIRE
 1 - WARNING TAPE

BORE PIT - ICN Sta. 17+19
 IOWA DOT Sta. 2649+60.2, 171' RT.

DAVIS CO.
T-69N, R-14W
SEC. 25



Smith Street / US 63 / S. Washington Street

MATCH LINE SHEET N.01

MATCH LINE SHEET N.03

(2A)
267' from END OF BORE to BEGINNING OF BORE
1 - 1 1/2" CONDUIT, PLOWED
1 - 12 SM DIELECTRIC FIBER
1 - #12 TRACER WIRE
1 - WARNING TAPE

(2B)
1456' from BEGINNING OF BORE to END OF BORE
1 - 1 1/2" CONDUIT, BORED
1 - 12 SM DIELECTRIC FIBER
1 - #12 TRACER WIRE

1-12FD, #12 TRACER WIRE
BORE PIT - ICN Sta. 18+19
IOWA DOT Sta. 2650+57.9, 169' RT.

BORE PIT - ICN Sta. 20+86
IOWA DOT Sta. 2653+23.7, 169' RT.

BORE 5' UNDER FLOW LINE

Southfork St.

17+65 ⌀ ROADWAY

18+19 ICN MKR

18+33 POLE

5' from ROW

145' from EOP

16' From ⌀

5' from ROW

80' from EOP

112' From ⌀

26+21 CULVERT

28+13 CULVERT

30+34 CULVERT

30+65 ⌀ DRIVE

30+98 HYDRANT

31+02 CULVERT

32+34 POLE

MP 15.50

MP 15.60

MP 15.70

FIBER DESIGN PLANS
US 63 CORRIDOR

ENGLISH ICN

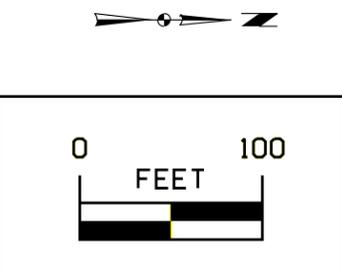
DESIGN TEAM Olsson Associates

DAVIS COUNTY

OSP LOG NUMBER 26160105 DAVIS COUNTY LAW ENFORCEMENT CENTER

SHEET NUMBER N.02

DAVIS CO.
T-69N, R-14W
SEC. 25

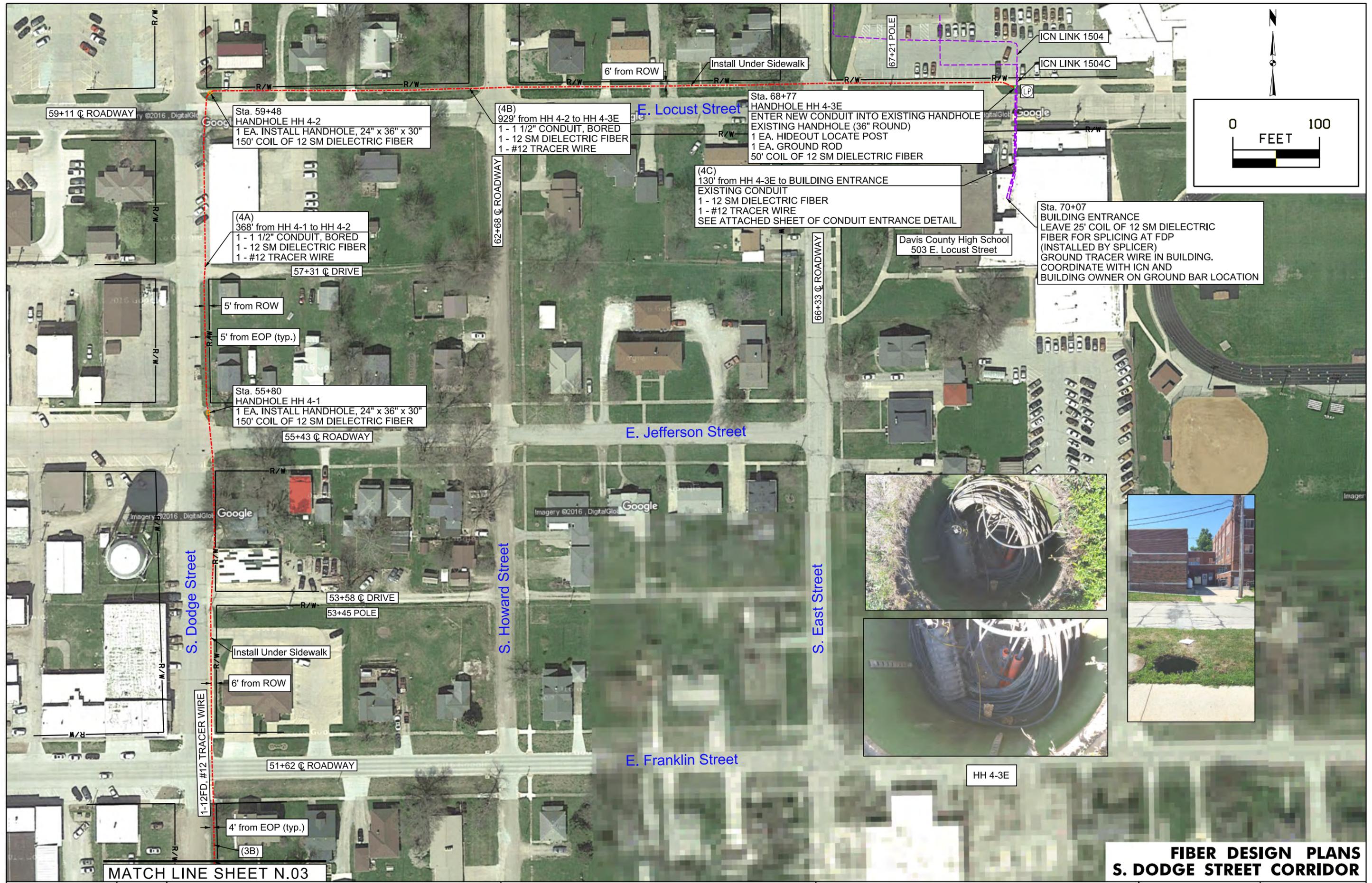


MATCH LINE SHEET N.02

MATCH LINE SHEET N.04

**FIBER DESIGN PLANS
US 63 CORRIDOR**

ENGLISH	ICN	DESIGN TEAM	Olsson Associates	DAVIS	COUNTY	OSP LOG NUMBER	26160105 DAVIS COUNTY LAW ENFORCEMENT CENTER	SHEET NUMBER	N.03
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MATCH LINE SHEET N.03

**FIBER DESIGN PLANS
S. DODGE STREET CORRIDOR**

ENGLISH	ICN	DESIGN TEAM	Olsson Associates	DAVIS	COUNTY	OSP LOG NUMBER	26160105 DAVIS COUNTY LAW ENFORCEMENT CENTER	SHEET NUMBER	N.04
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SEE PRINT # 1504-37C
MATCH LINE STA. 957+20

DAVIS CO.

957+40 P.I. RT.
957+57 @ DRIVE
957+75 P.I. RT.

958+11 P.I. LT.
958+33 DRAIN

959+00 BEG. TREES

BLOOMFIELD TWP.
T-69N R-14W
SEC. 25

960+75 END TREES
961+03 @ GRAVEL DRIVE

961+58 BUILDING COR.
961+70 TELE CROSSING
961+83 TELE CROSSING
961+92 BUILDING COR.

962+20 POLE

1 - 1 1/2" HDPE / 1 - 12FD / #12 TRACER WIRE
NEW BUILD TO EX. HH

E. LOCUST ST.

N. EAST ST.

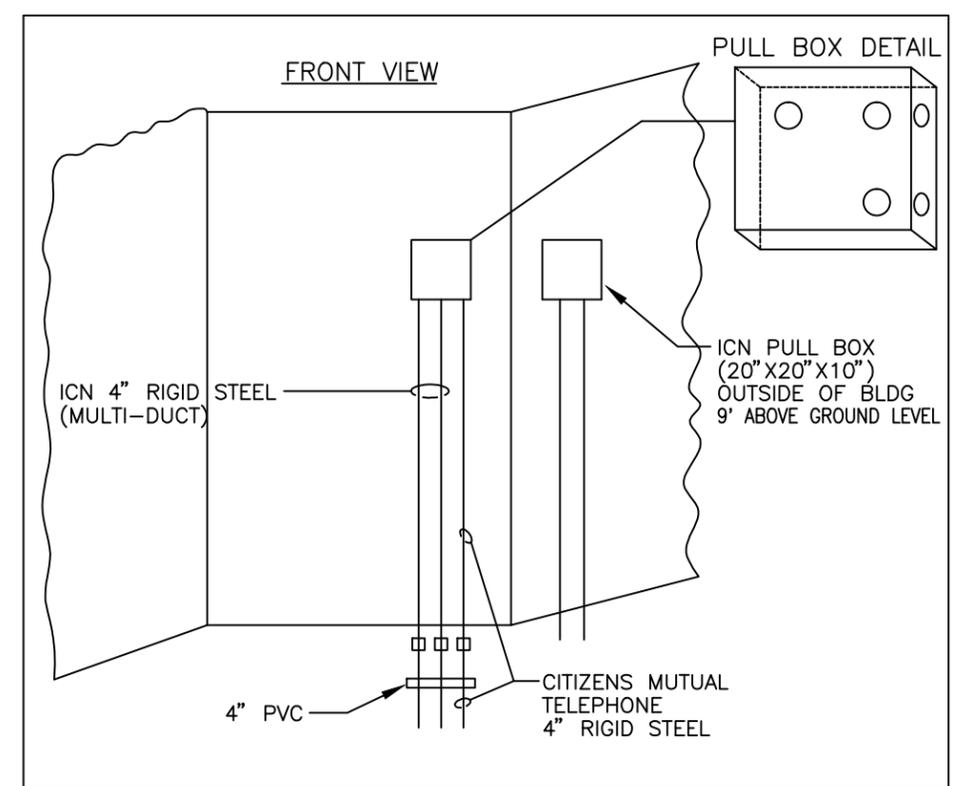
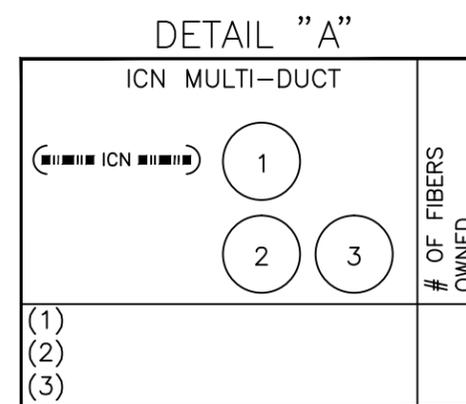
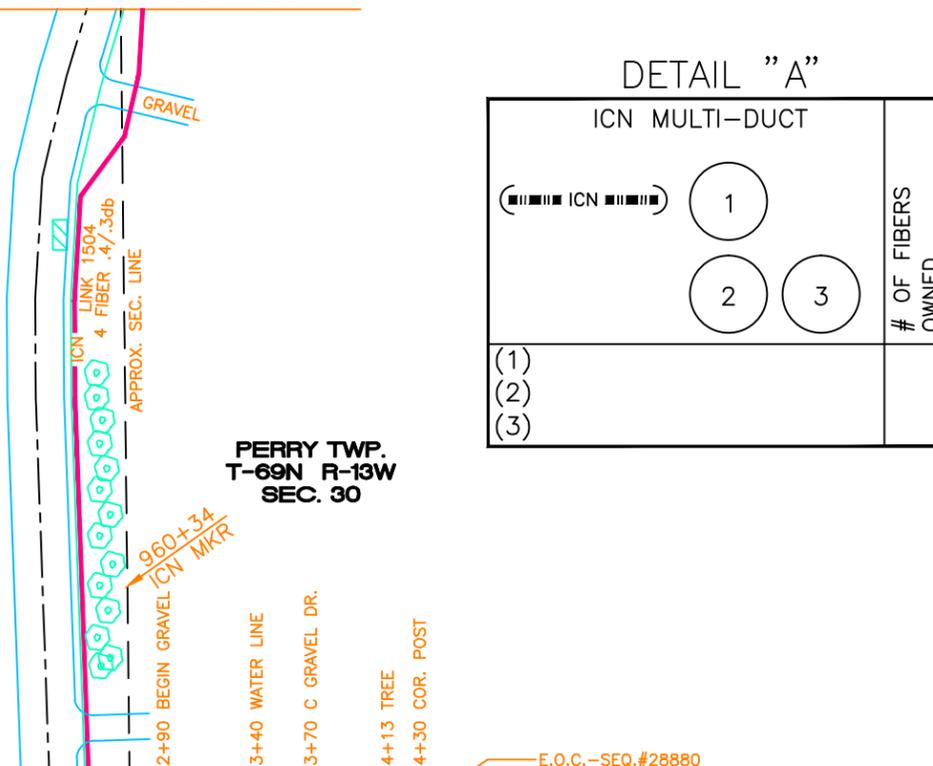
962+53 P.I. LT. CROSSING
962+57 TELE CROSSING

LINK 1504C
2" DUCT

CEMENT
PARKING & DRIVE
SHOP
AREA
F.O.T.S.
ROOM 131

DAVIS COUNTY COMM. H.S.

NOTE: OPEN CUT @ E. LOCUST ST.
PER ALLEN JOHNSON (PUBLIC WORKS DIRECTOR)

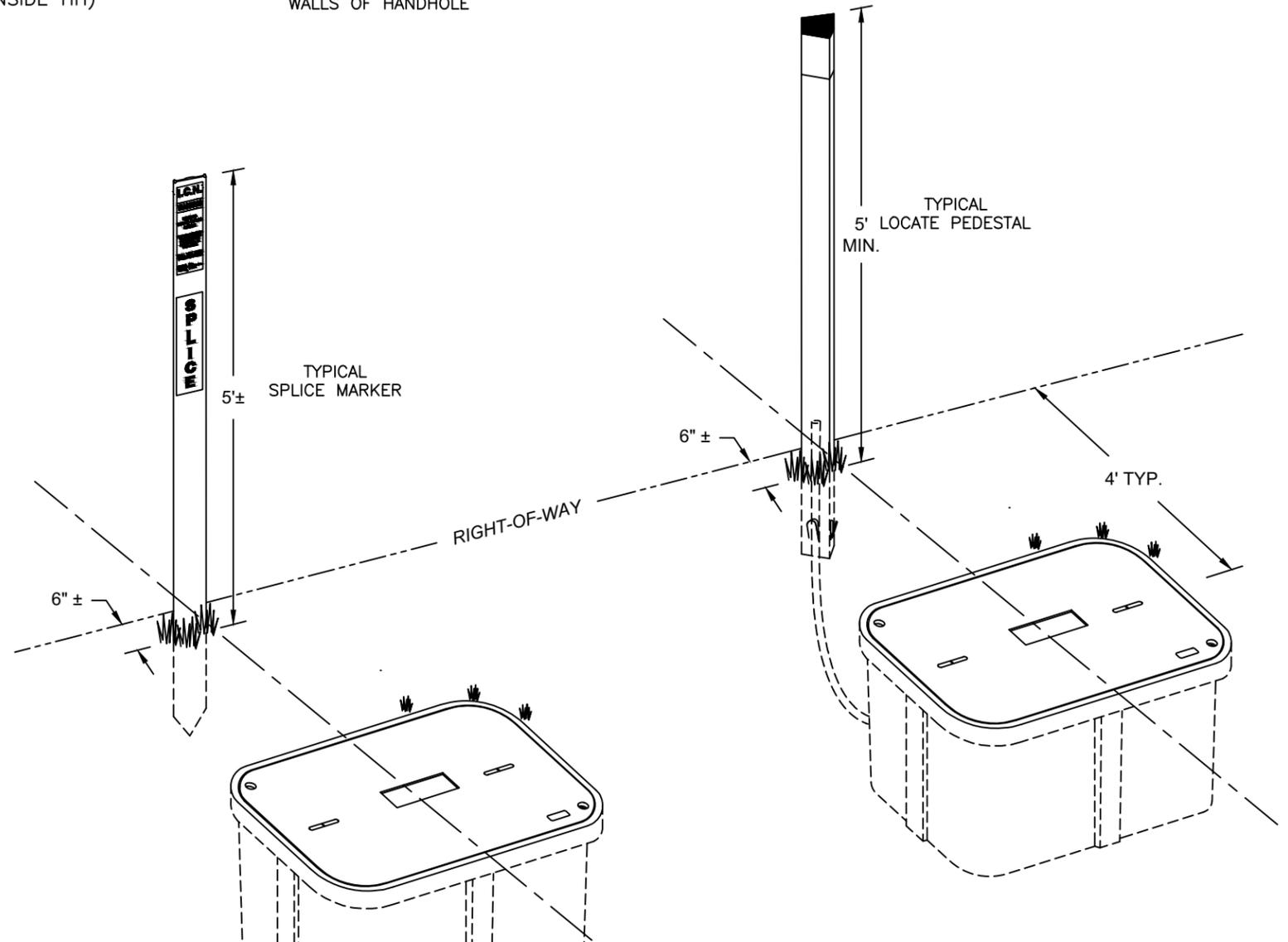
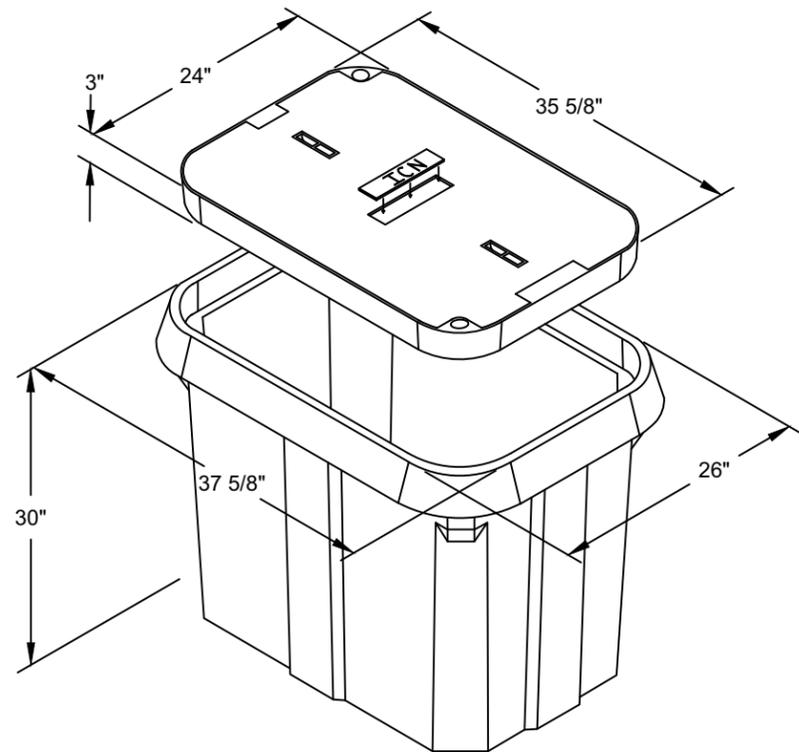
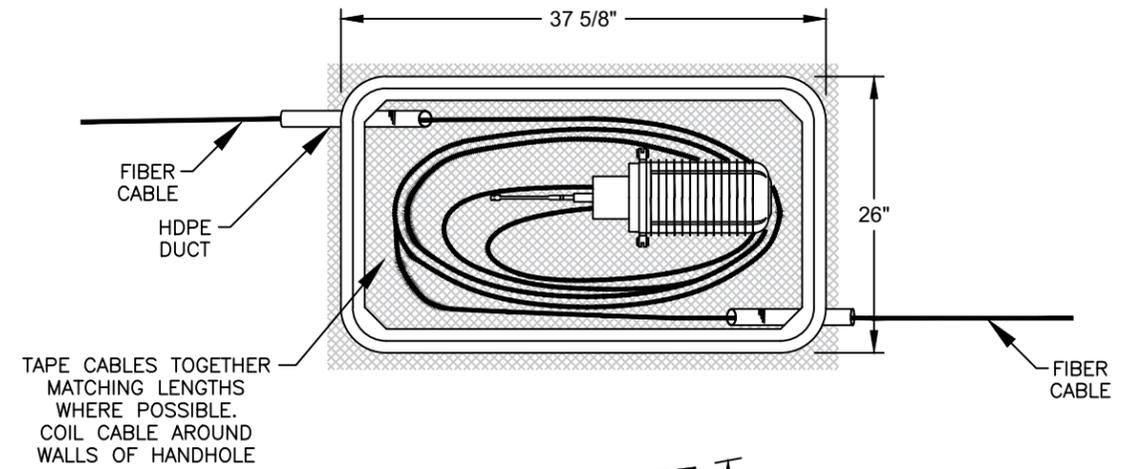
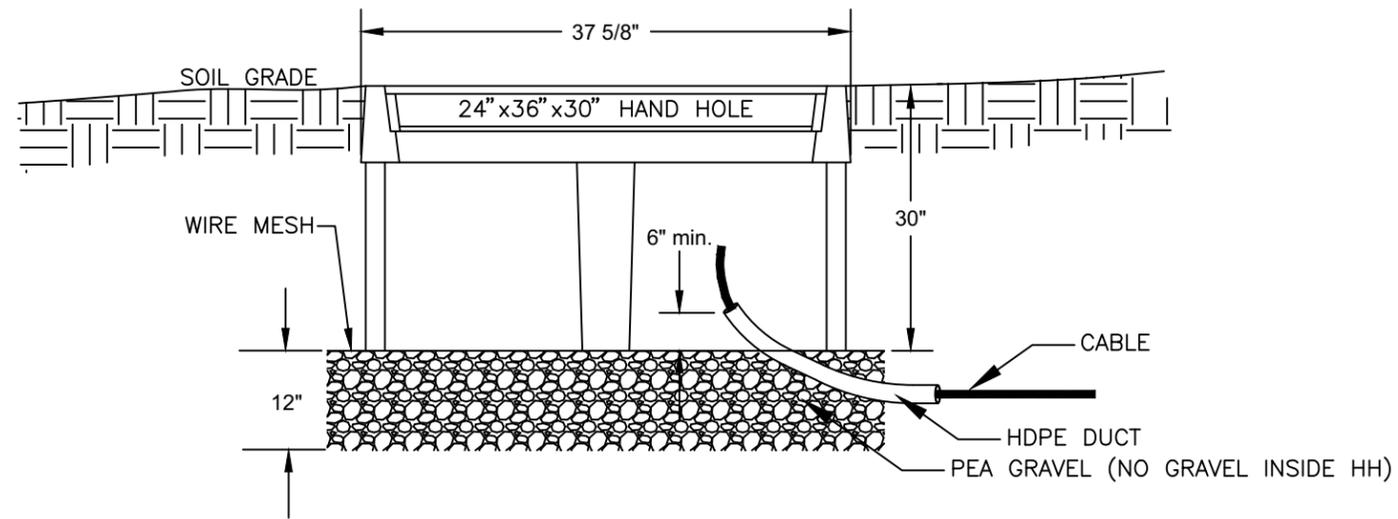


BLOOMFIELD
DAVIS COUNTY COMM. H.S.
106 N EAST ST
BLOOMFIELD, IA 52537
+
INDIAN HILLS COMM. COLLEGE
204 N EAST ST
BLOOMFIELD, IA 52537

IOWA COMMUNICATIONS NETWORK		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 © 2007, COPY WITH PERMISSION		ICN	
1	AS-BUILT REVISION	8-20-98	SCALE: 1" = 100' SIZE: B
			LINKS 1504 & 1504C
			BLFD (BLOOMFIELD.DWG)
\\icn.state.ia.us\data\CADdata\AutoCAD Drawings\AS-BUILT DRAWINGS\CITIES WITH ALL LINKS\BLOOMFIELD.dwg			

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

TYPICAL HANDHOLE

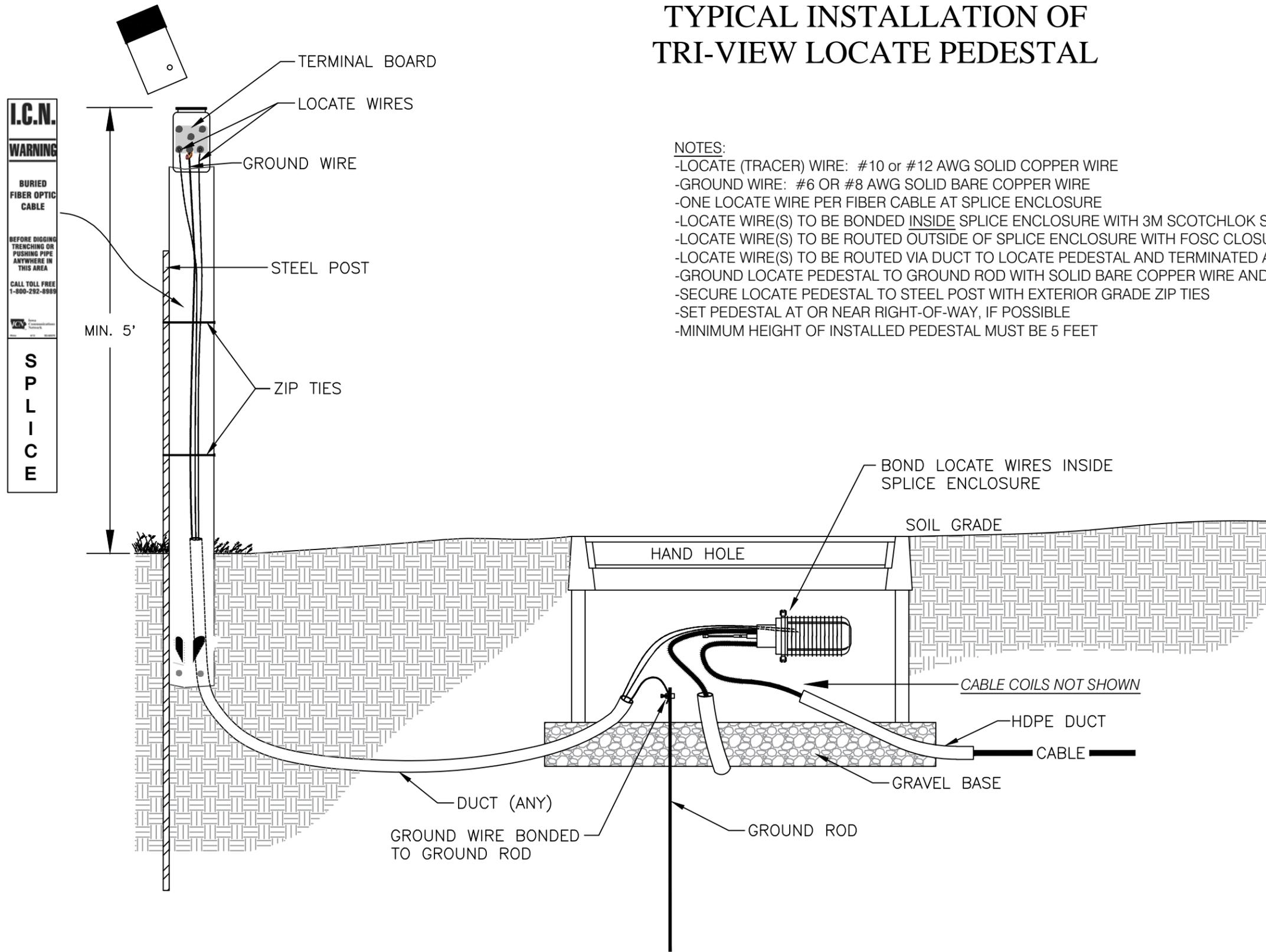
SCALE: NONE

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 TRI-VIEW LOCATE PEDESTAL



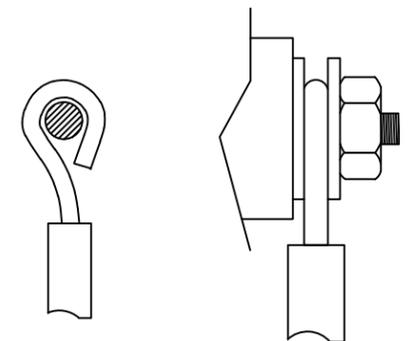
NOTES:

- 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.

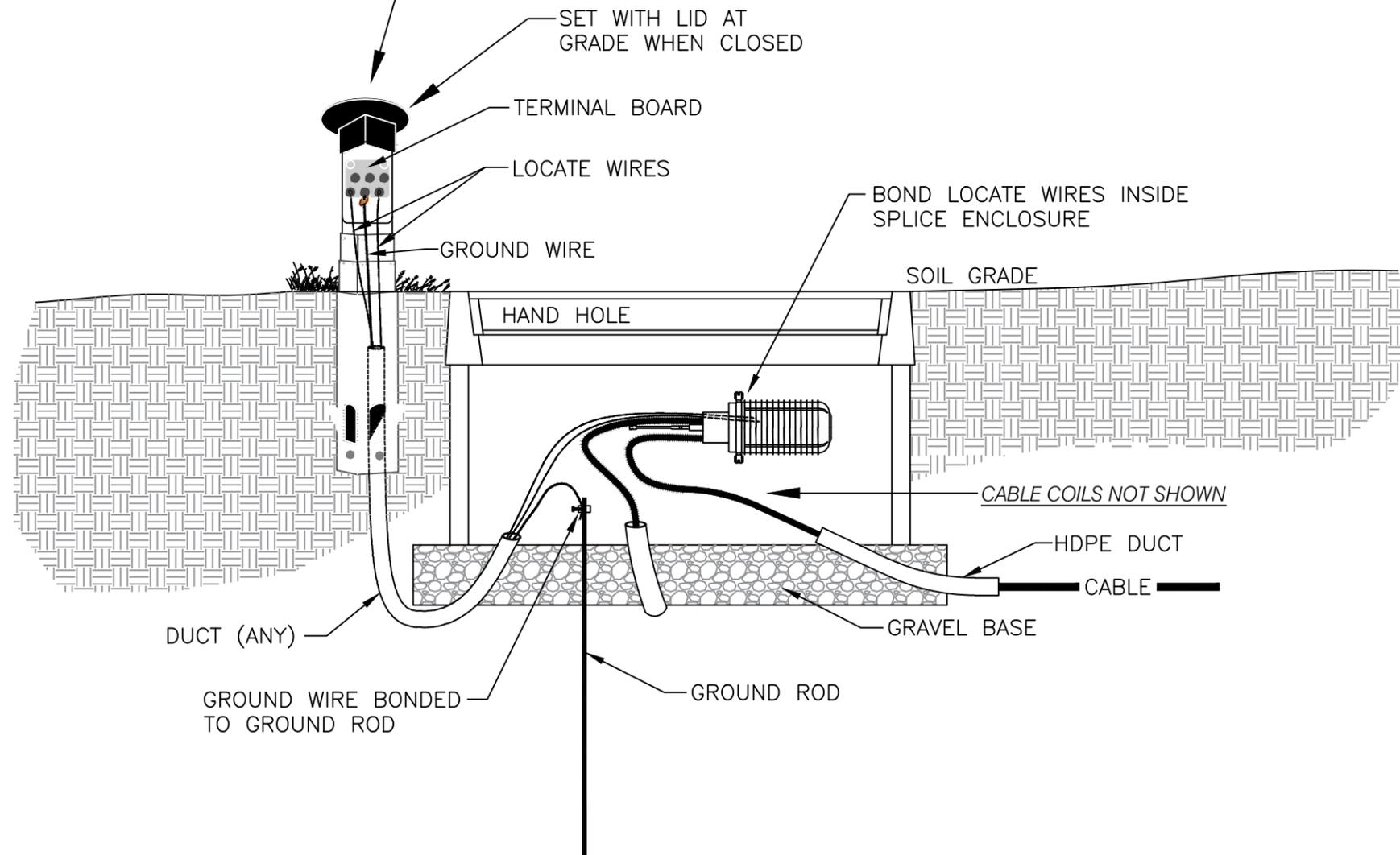


TYPICAL INSTALLATION OF HIDE-OUT LOCATE STATION



NOTES:

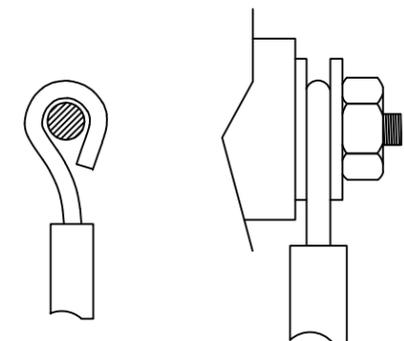
- LOCATE (TRACER) WIRE: #10 or #12 AWG SOLID COPPER WIRE
- GROUND WIRE: #6 OR #8 AWG SOLID BARE COPPER WIRE
- ONE LOCATE WIRE PER CABLE AT SPLICE ENCLOSURE
- LOCATE WIRE(S) TO BE BONDED INSIDE SPLICE ENCLOSURE WITH 3M SCOTCHLOK SHIELD BONDING KIT
- LOCATE WIRE(S) TO BE ROUTED OUTSIDE OF SPLICE ENCLOSURE 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.



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CONSTRUCTION DETAIL
LOCATE PEDESTAL TYPICAL
RHINO HIDEOUT

TYPICAL LOCATE PEDESTAL

SCALE: NONE

SIZE: 11 x 17

1	FOR CONSTRUCTION	11-3-14	5	REVISION	12-28-15
2	UPDATE	3-13-15	6		
3	REVISION	8-21-15	7		
4	REVISION	9-4-15	8		

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