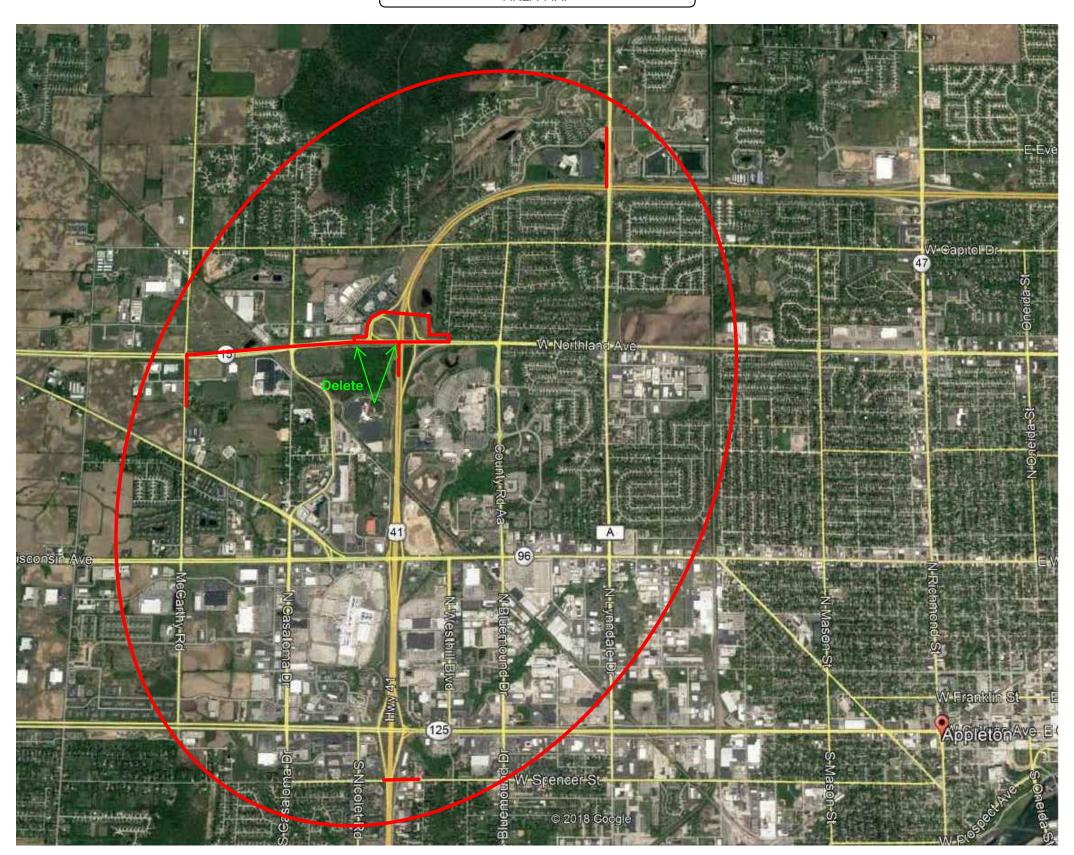
AAMFON GRAND CHUTE

FIBER BUILD AREA MAP



AAMFON **GRAND CHUTE**

> FIBER BUILD LEGEND

ESTIMATED MATERIALS w/ 5% ADDED

12 FIBER OPTIC CABLE 3,500'

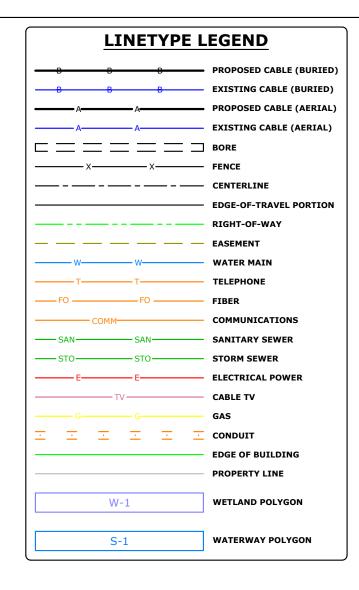
14,800' 48 FIBER OPTIC CABLE

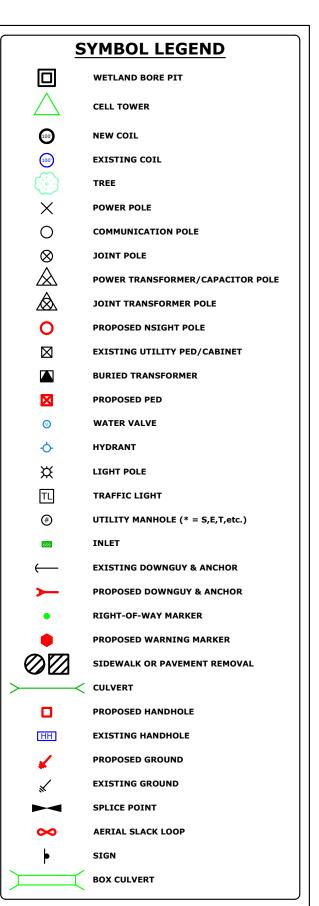
 $1\frac{1}{4}$ " DUCT 15,200'

TRACER WIRE 15,200'

ECTIMATED TOTAL C

ESTIMATED TOTAL	<u>s</u>
PLACE CABLE IN EXISTING DUCT W/FIBER	960'
BORE	7,615'
PLOW	6,830'
DUCT COUPLERS-PROVIDED BY CONSTRUCTION CONTRACTOR	-
HAND HOLES	9
GROUND RODS	9
WARNING MARKERS	9
POLE ATTACHMENTS	-
ANCHORS	-
DOWN GUYS	-





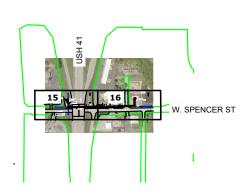
SYMBOL LEGEND

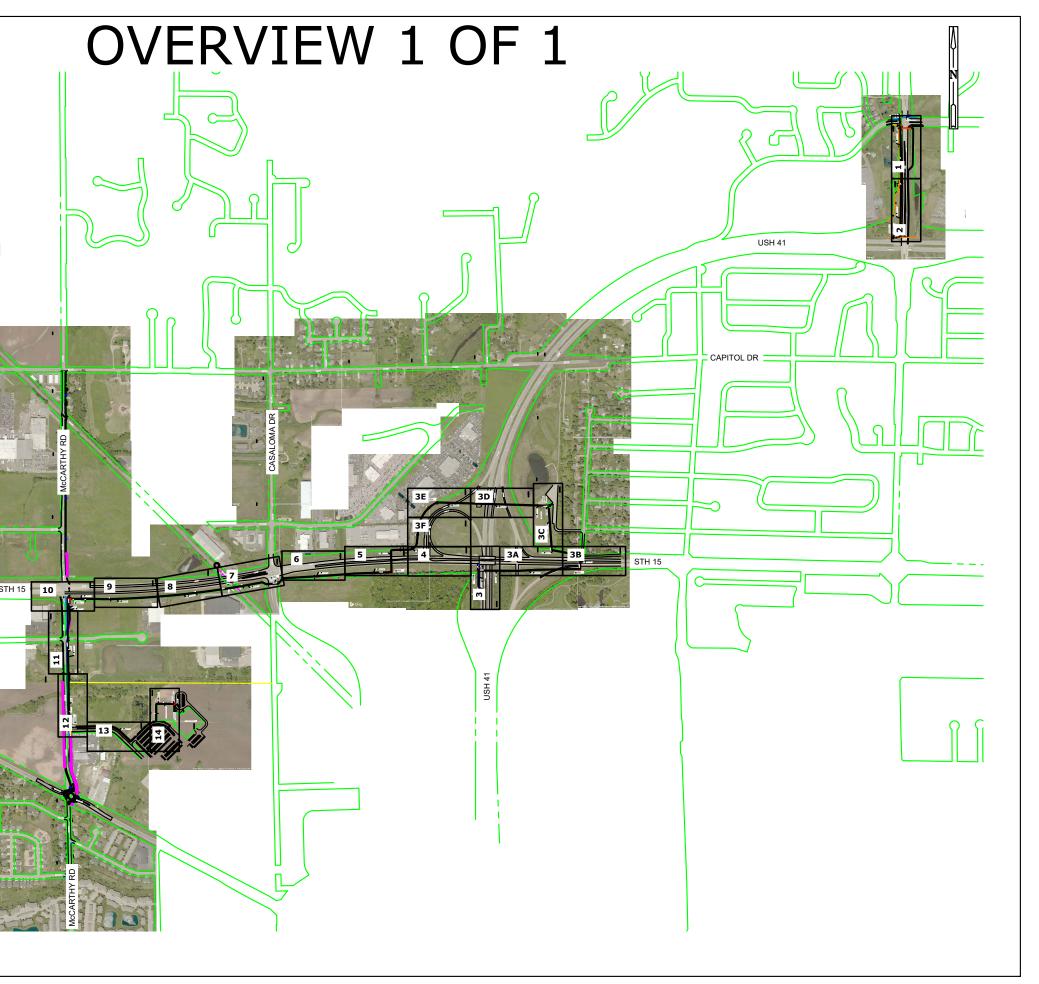
B A-----

- PROPOSED HANDHOLE
- BURIED CABLE ROUTE
- AERIAL CABLE ROUTE
- → PROPOSED AERIAL SLACK LOOP

NOTE:

- DISTANCE BETWEEN HANDHOLES/SLACK LOOPS ON KEY MAPS INCLUDE ALL SLACK LOOPS AND 5% FAT





GENERAL CONSTRUCTION NOTES:

- 1. CONSTRUCTION PERMITS OR NOTIFICATIONS HAVE BEEN COMPLETED OR APPLIED FOR BY MI-TECH SERVICES.
- CONTACTS:

MI-TECH SERVICES DENNIS LAFAVE (920) 619-9774
TOWN OF GRAND CHUTE BRENT BRAUN (920) 419-7337

- 3. ANY ADJACENT AREAS DAMAGED DURING CONSTRUCTION MUST BE RESTORED TO THEIR ORIGINAL CONDITION.
- 4. THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY IRONS DURING CONSTRUCTION AND RESET BY A LICENSED LAND SURVEYOR IF DISTURBED.
- 5. ROUTE DEVIATIONS SHALL NOT BE ALLOWED WITHOUT CONCURRENCE OF DESIGNER.
- 6. BRUSHING AND TREE REMOVAL IS THE RESPONSIBILITY OF THE CONTRACTOR WITH THE FOLLOWING CONDITIONS: -ALL BRUSH AND TREES ARE TO BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- 7. ALL ROCKS TURNED UP DURING PLACEMENT MUST BE REMOVED BY CONTRACTOR OR PLACED BACK IN TRENCH DURING RESTORATION SO AS NOT TO CAUSE A HAZARD FOR VEHICLE OR FOOT TRAVEL.
- 8. ALL ABRUPT CHANGES IN GRADE SUCH AS BERMS AND DITCHES SHALL BE GRADUALLY SLOPED AND RESTORED TO THEIR NATURAL STATE.
- 9. UNLESS OTHERWISE SPECIFIED BY THE DESIGNER, THE CABLE PLACING DEPTHS ARE:

FIBER OPTIC CABLE

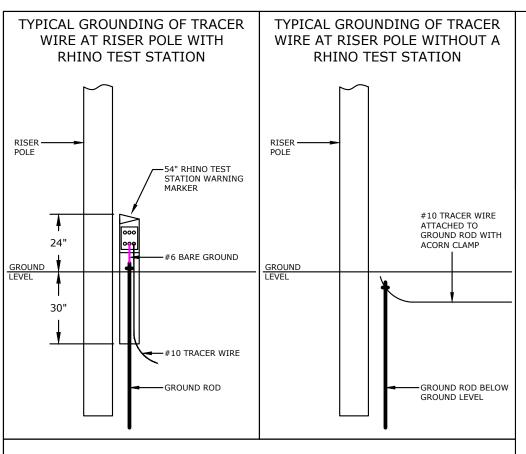
MINIMUM DEPTH IN SOIL 36"
MINIMUM DEPTH AT ROAD CROSSING 60" (IN RURAL AREAS)

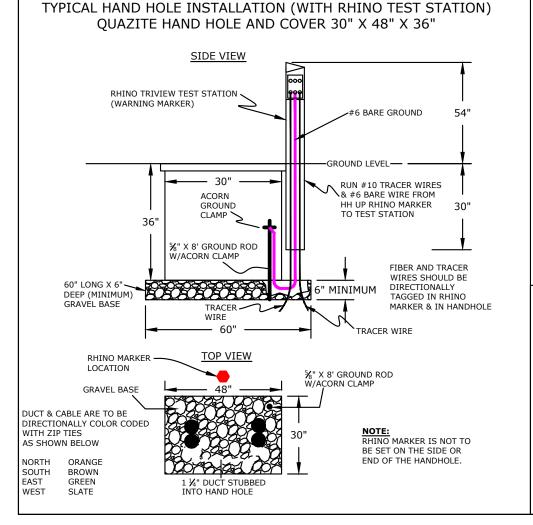
- 10. THE CONTRACTOR IS RESPONSIBLE FOR PLACING ROAD GRAVEL IN ALL HAND HOLES PLACED OR ENTERED.
- 11. A MINIMUM 6" BED OF ROAD GRAVEL SHOULD BE PLACED PRIOR TO SETTING HAND HOLES.
- 12. ACORN TYPE HEX HEAD THREADED GROUND ROD CLAMPS SHOULD BE USED TO FASTEN GROUND WIRE TO GROUND RODS IN HAND HOLES WITHOUT RHINO TEST STATIONS.
- 13. ALL CABLE, DUCT & TRACER WIRE SHOULD BE TAGGED BY CONSTRUCTION CONTRACTOR.
- 14. BORES OVER 500 FT. MAY BE BROKEN UP INTO SHORTER BORES FOR CONTRACTORS CONVENIENCE, WITH THE EXCEPTION TO PLACING BORE PITS IN WETLANDS WHICH WILL HAVE TO BE APPROVED BY DESIGNER.
- 15. PROPOSED WETLAND BORE PITS SHOULD BE RECEIVING PITS ONLY, PREFERABLY COUPLING OF DUCT BE COMPLETED BY HAND-DIGGING ONLY. DO NOT SET UP THE BORE RIG IN WETLANDS, WITHOUT PRIOR AUTHORIZATION.
- ALL AERIAL CONSTRUCTION TO MEET NESC AND RUS SPECIFICATIONS.
- 17. THE CONSTRUCTION CONTRACTOR SHALL SUPPLY DUCT PLUGS AND PLUG ALL DUCT IN HAND HOLES AND AT RISERS.
- 18. PROPOSED PLACEMENT OF FACILITIES IS BASED ON DESIGN AND PLANNING LOCATES OBTAINED THROUGH THE STATE ONE CALL SYSTEM. ACTUAL FACILITY PLACEMENT IS SUBJECT TO CHANGE BASED ON FIELD LOCATES ENCOUNTERED DURING CONSTRUCTION.
- 19. PERMITS (PERMIT BOOK WILL BE PROVIDED PRIOR TO CONSTRUCTION). THE CONSTRUCTION CONTRACTOR IS RESPONSIBLE FOR REVIEWING AND FOLLOWING ANY AND ALL STIPULATIONS SET FORTH BY THE PERMIT ENTITIES. DOOR COUNTY PERMIT IS REQUIRED FOR THIS PROJECT. PERMITS REQUIRED: YES FOR WIS DOT, TOWN OF GRAND CHUTE, OUTAGAMIE COUNTY & CN RAILROAD.

UNITS	DESCRIPTIONS	LABOR	MATERIAL	TOTAL	QUANTITY	TOTAL \$
WHM	Install new cable in existing handhole				4	\$-
BM2 (5/8) (8')	Ground Rod				9	\$-
BM53	Warning Marker (Rhino Test Station)				9	\$-
BMCB 8"	Core bore street to pot utility & repair				1	\$-
BM61 (1.25) 1 w/TRACER WIRE	Directional bore 1-1.25" HDPE w/tracer wire				7,615	\$-
BMSC (100) 48F	Fiber slack coil				11	\$-
BM82 (8')	U Guard 8'-3"					\$-
UO (12)	Place fiber in duct				2,610	\$-
UD (1x1x1.25) w/TRACER WIRE	Place 1-1.25" HDPE by plow or trench w/tracer wire				6,830	\$-
UH2 (24x36x36) TIER 15	Labor and material to place handhole				9	\$-
R 1-10	ROW clearing					\$-
PM11	Anchor Guard					\$-
CO (96) 5/16" EHS	Place strand (5/16" EHS) & lash new fiber to strand					\$-
BM72	Remove and replace asphalt					\$-
PMBT (96) 150'	Place aerial slack loop					\$-
PE1-3 (5/16" EHS)	Place down guy					\$-
PF1-5	Place anchor rod 5/8" X 8' 10,000 LB					\$-
BM73	Remove and replace concrete					\$-
PM 21 METAL BUILDING	Core Bore through metal wall, place conduit & pull box				1	\$-
XXPF	Abandon existing anchor					\$-
XXPE	Remove & dispose of downguy					\$-
BM98	Backhoe existing cable					\$-
PM21 - Occupied	Pull fiber thru existing duct with existing cable				960'	\$-
BMSC (100) 12F	Fiber slack coil				7	\$-
UO (48)	Place fiber in duct				12,950	\$-

NOTE:

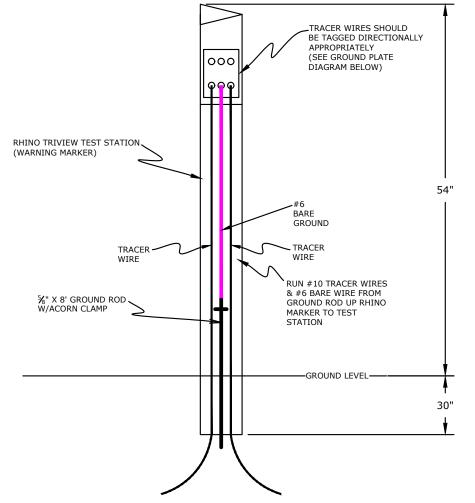
NO PERCENTAGE OF FAT HAS BEEN ADDED TO THE TOTALS ON THIS PAGE



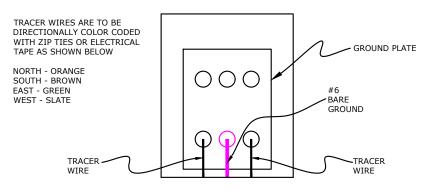


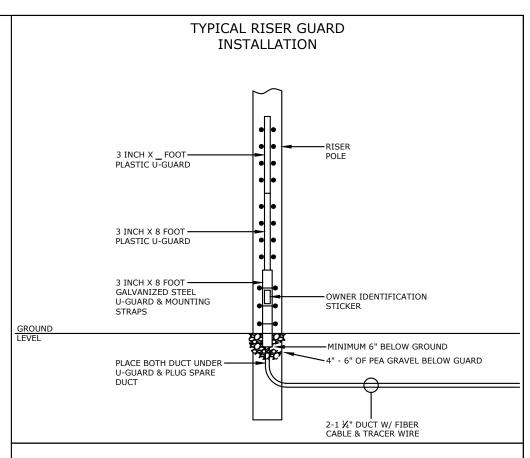
AAMFON GRAND CHUTE FIBER BUILD TYPICAL CONSTRUCTION DRAWINGS

TYPICAL RHINO TEST STATION INSTALLATION (WITHOUT HANDHOLE) SIDE VIEW



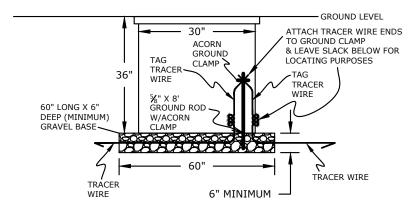
TYPICAL RHINO TEST STATION (GROUND PLATE DETAIL)





TYPICAL HAND HOLE INSTALLATION (WITHOUT RHINO TEST STATION) QUAZITE HAND HOLE AND COVER 30" X 48" X 36"

SIDE VIEW





DUCT & CABLE ARE TO BE

ORANGE

BROWN

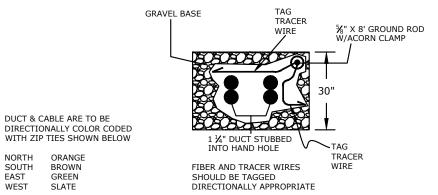
GREEN

NORTH

SOUTH

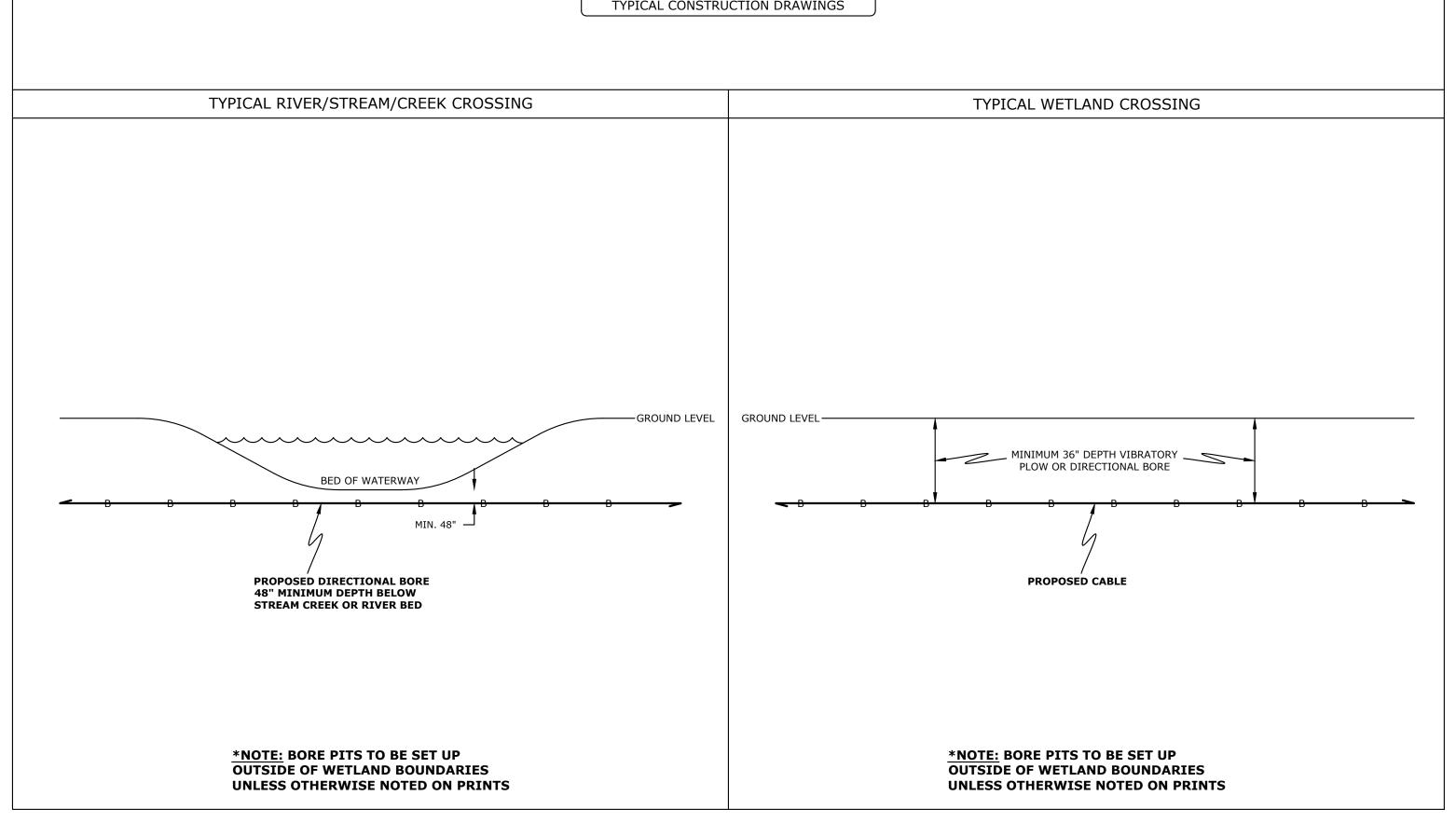
EAST

WEST

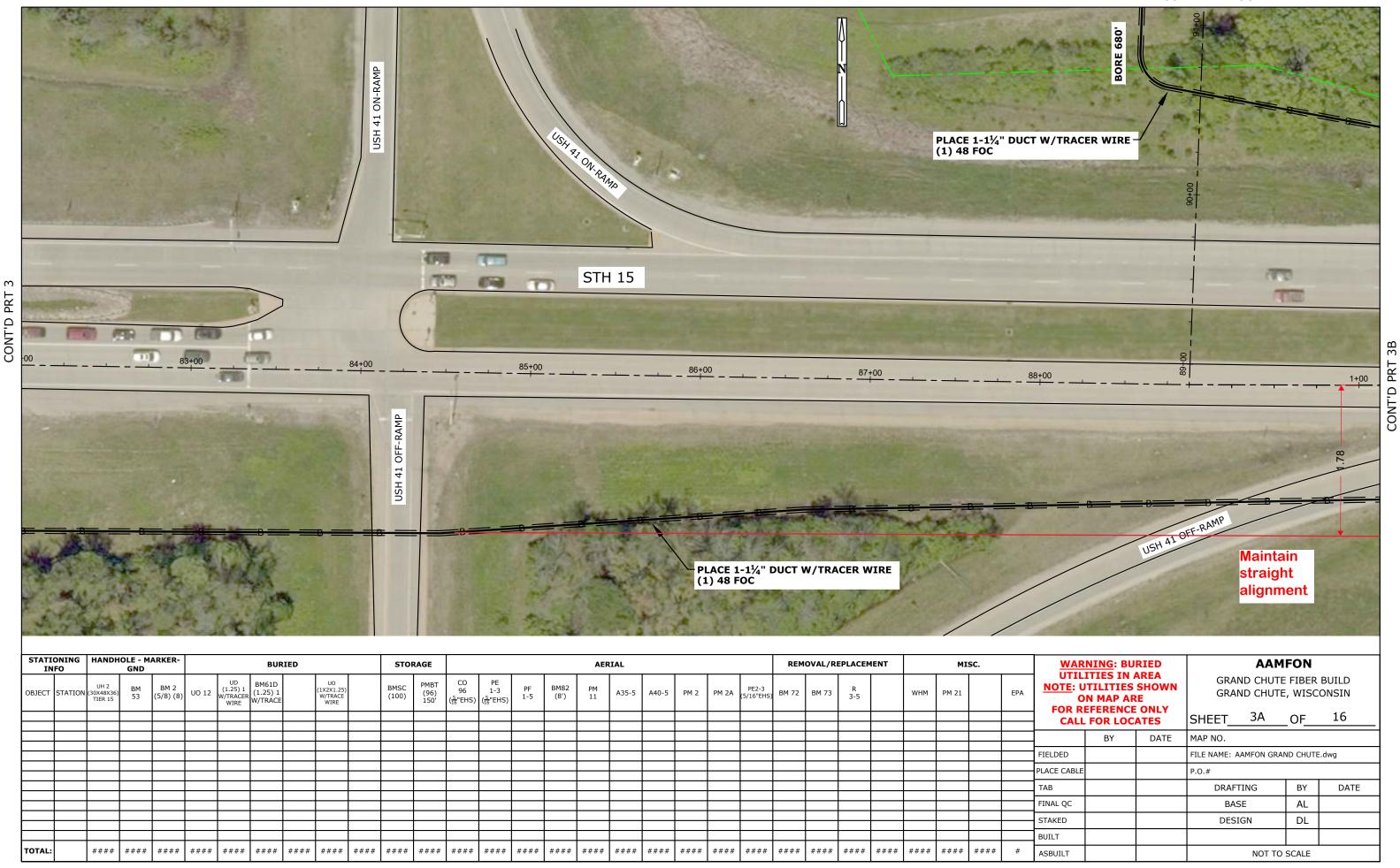


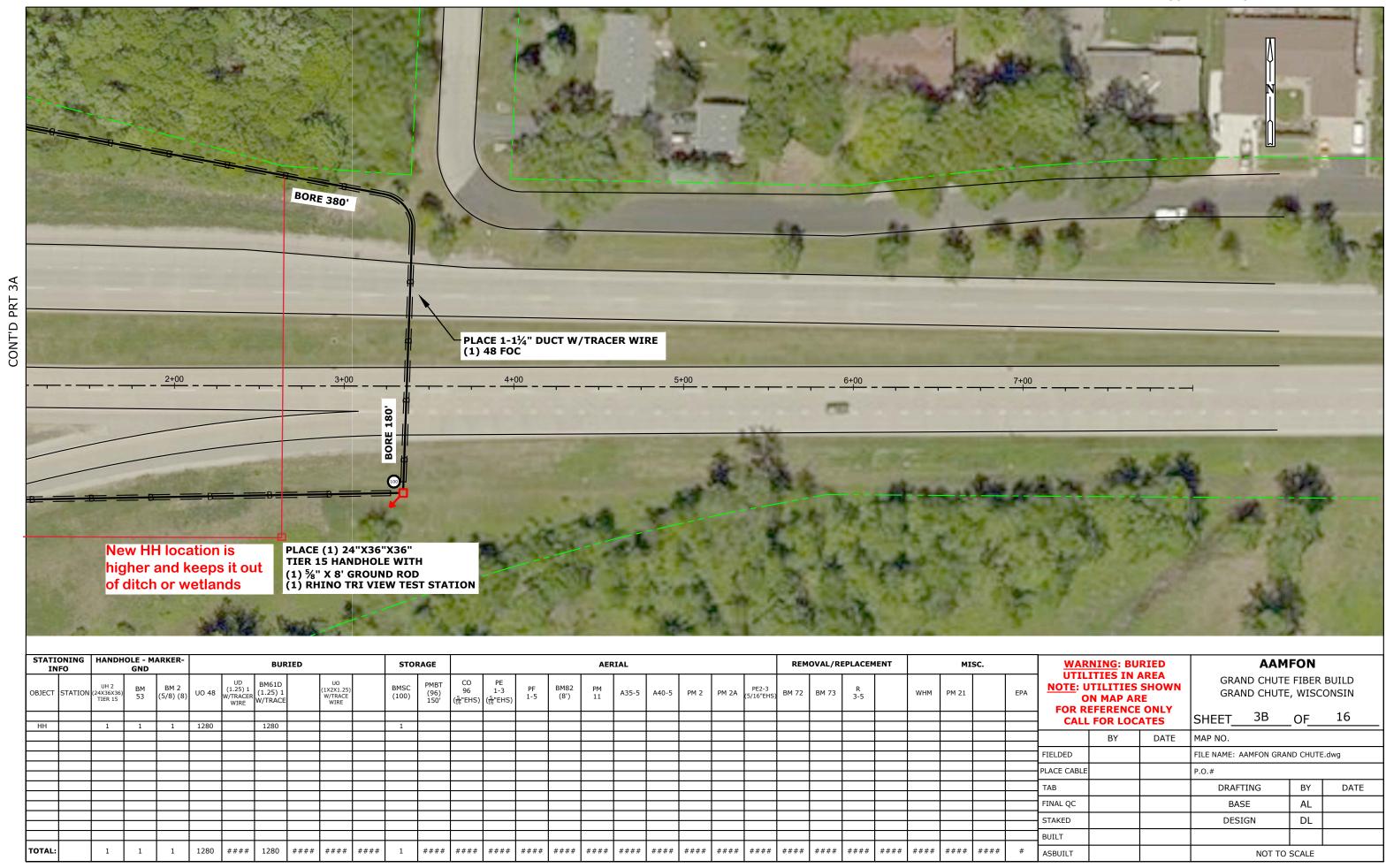
AAMFON GRAND CHUTE

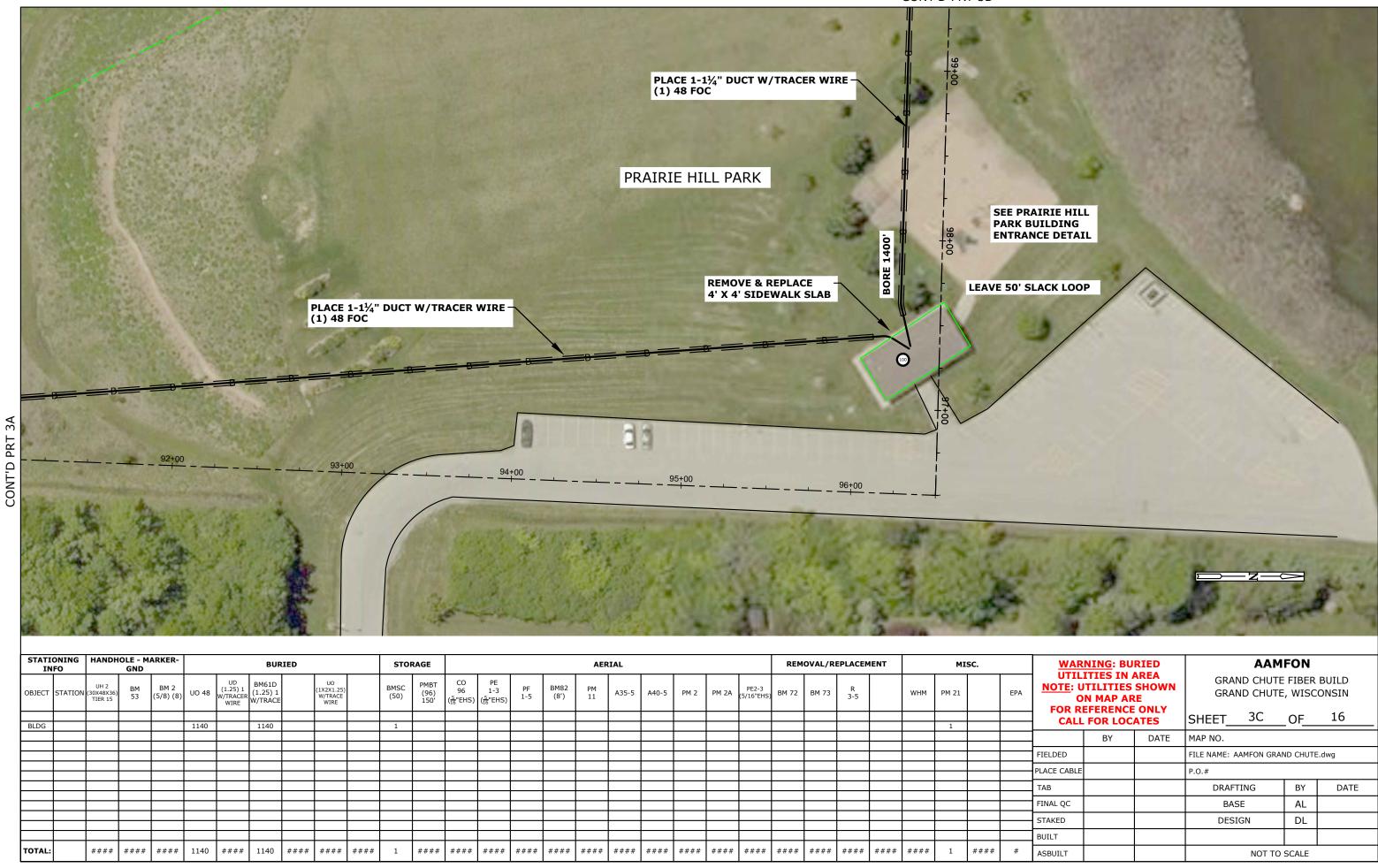
FIBER BUILD
TYPICAL CONSTRUCTION DRAWINGS

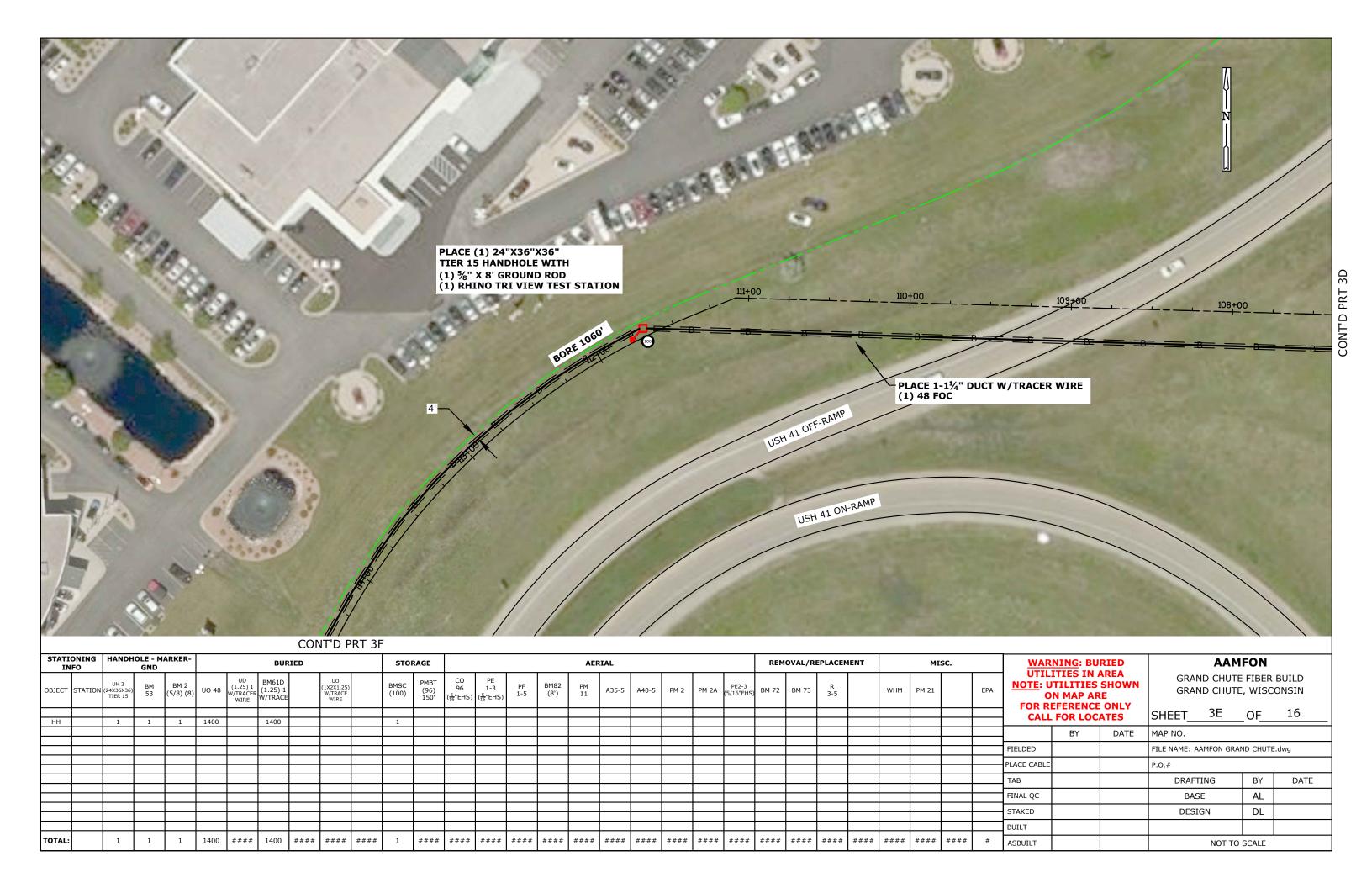


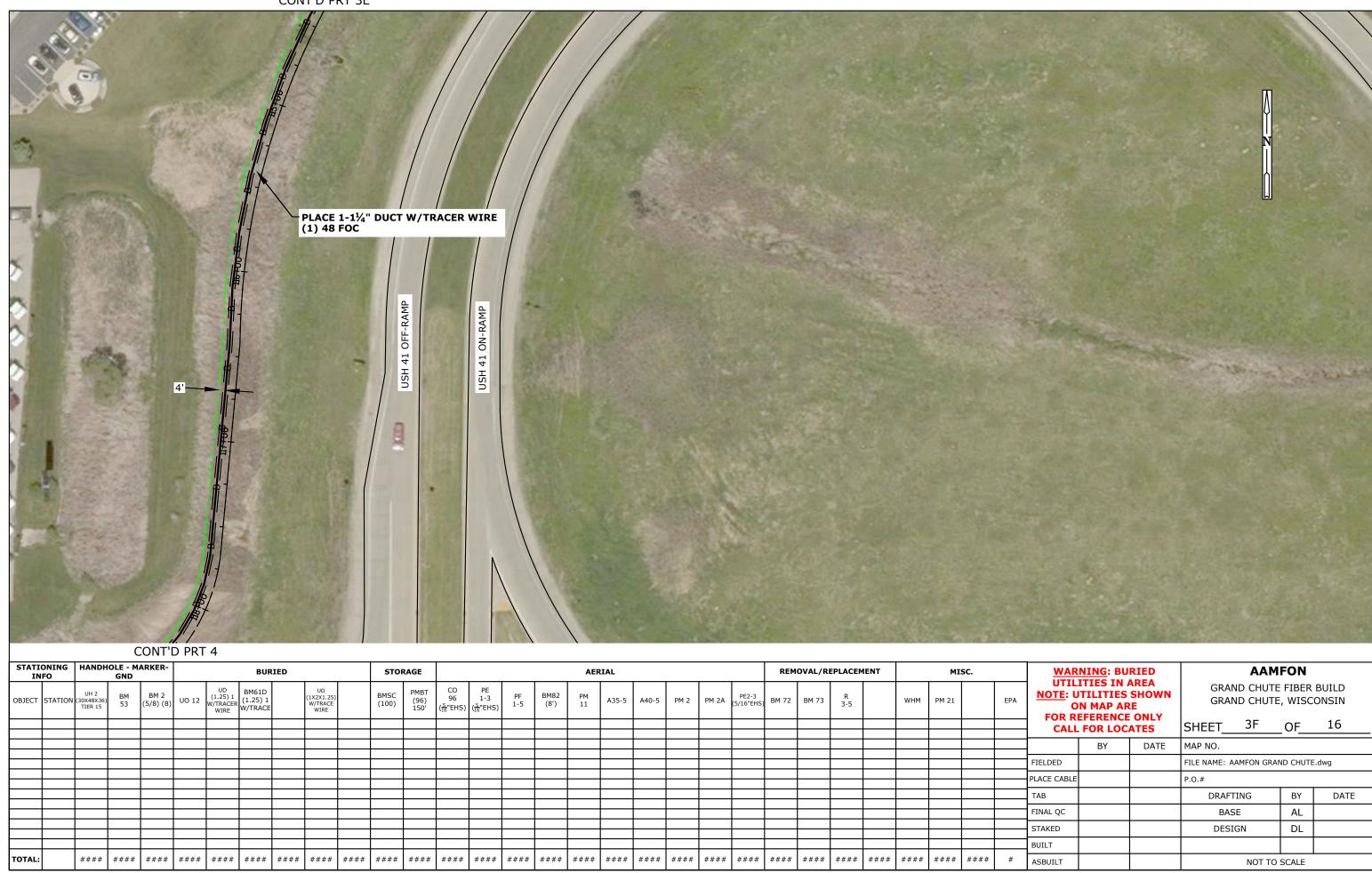
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OBJECT	STATION	UH 2 (24X36X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 48	UD (1.25) 1 W/TRACEI WIRE	BM61D (1.25) : W/TRAC	L E	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	BMSC (200)	CO 96 (<u>5</u> "EHS)	PE 1-3 (<u>5</u> "EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72 BM	73 R	5	,	WHM P	PM 21		EPA	NOTE: U	ITIES IN A TILITIES N MAP AF	SHOWN RE	GRAND CHUTE FIBER BUILD GRAND CHUTE, WISCONSIN				
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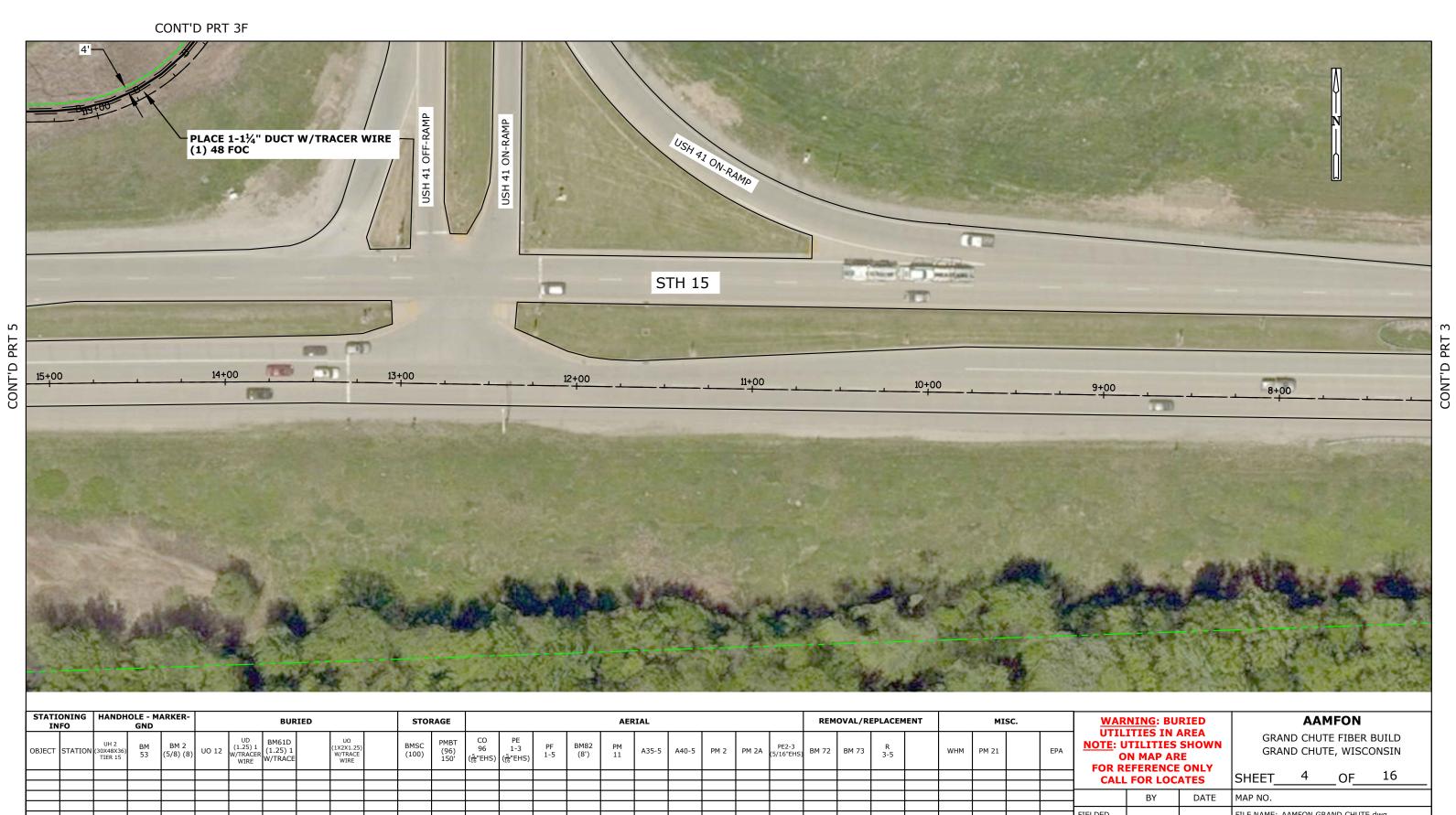




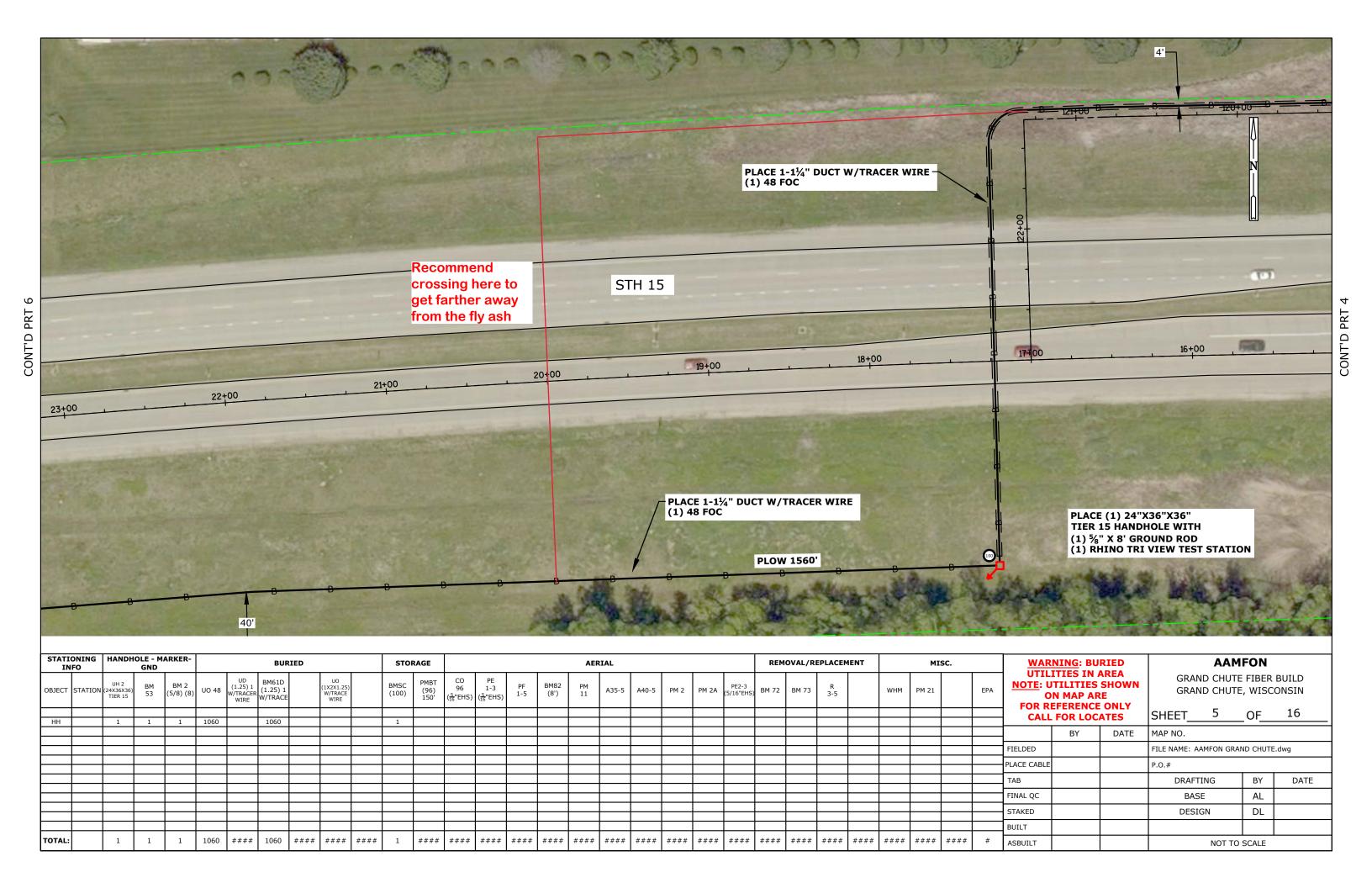


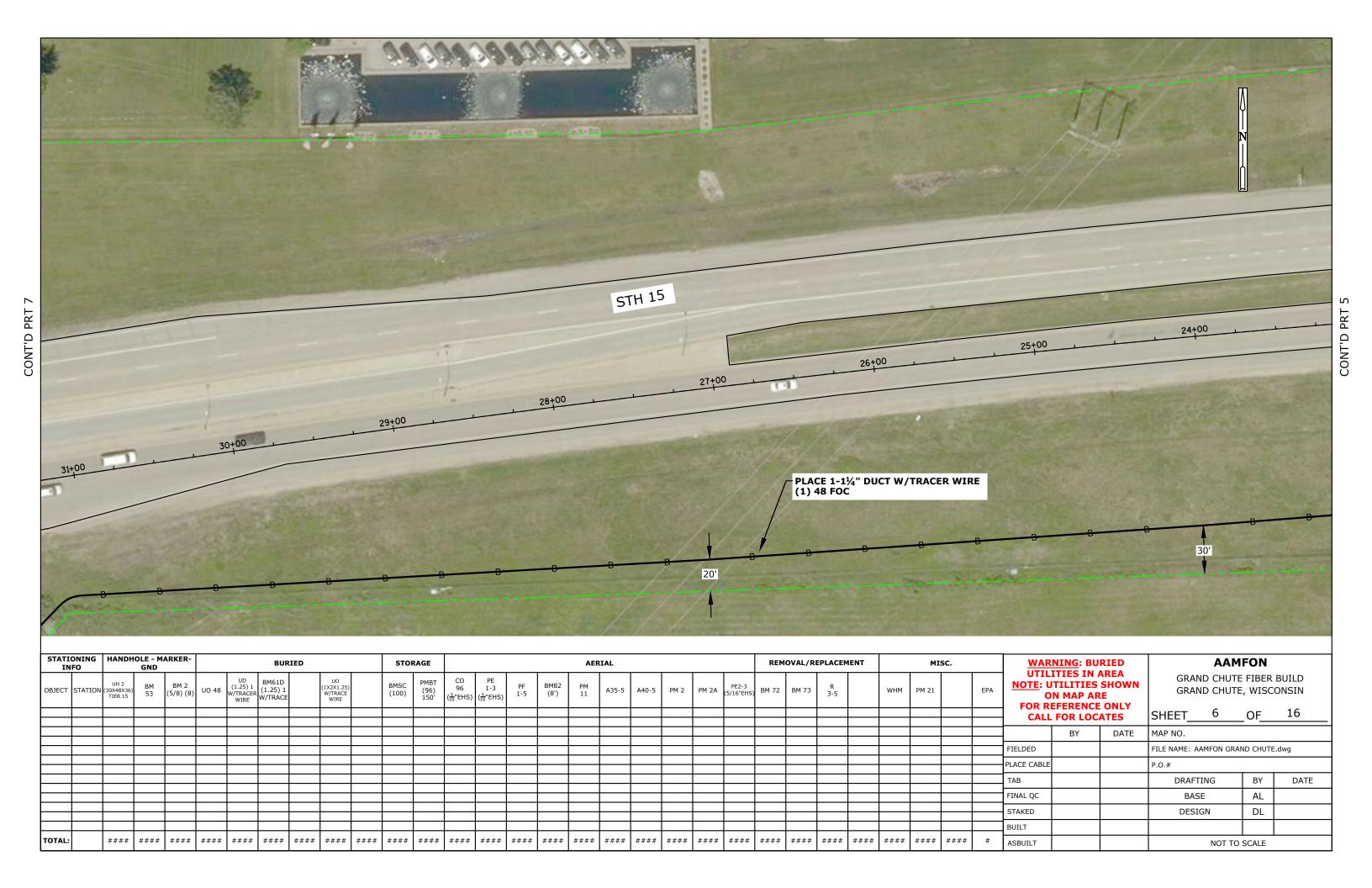


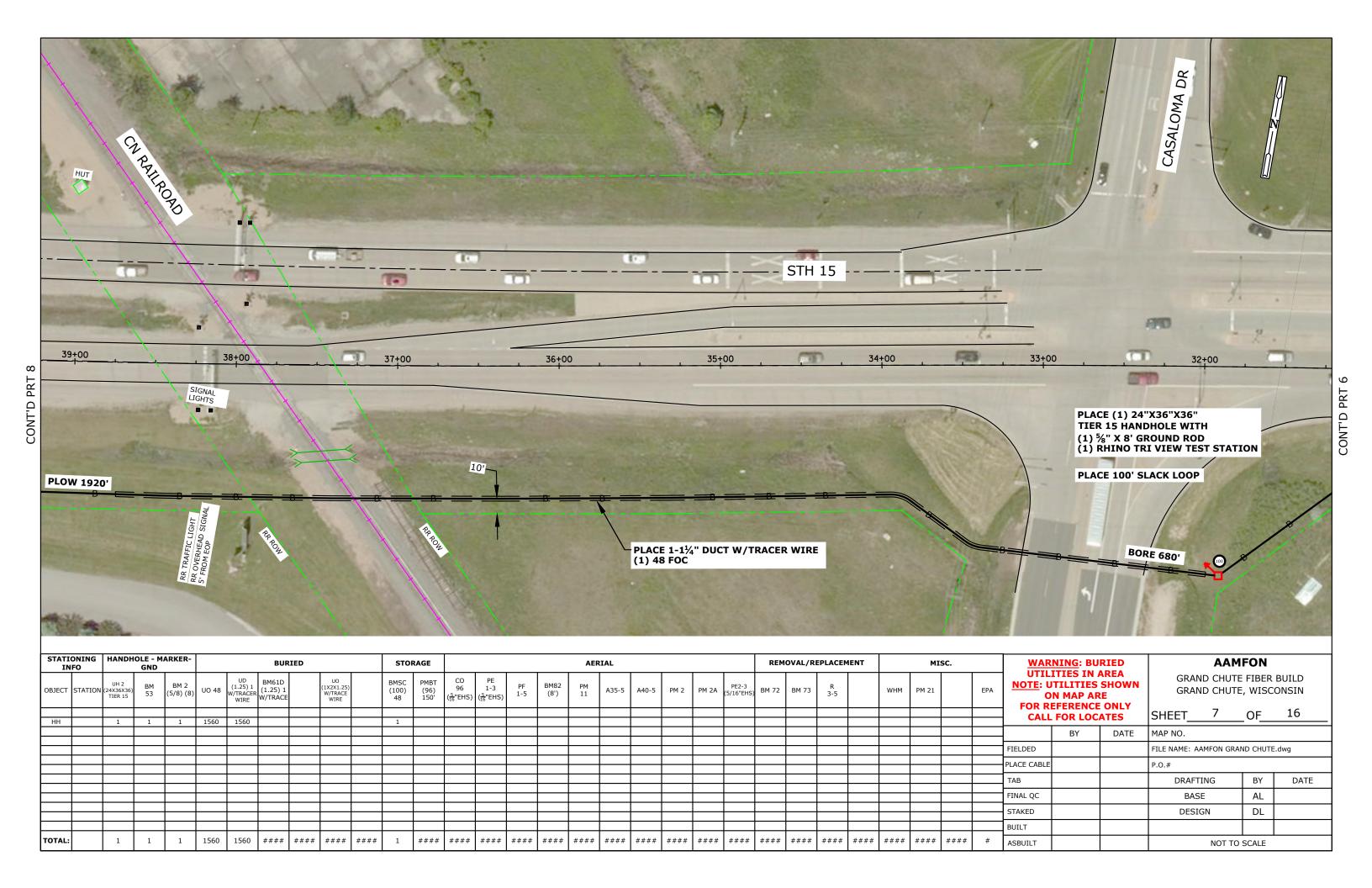


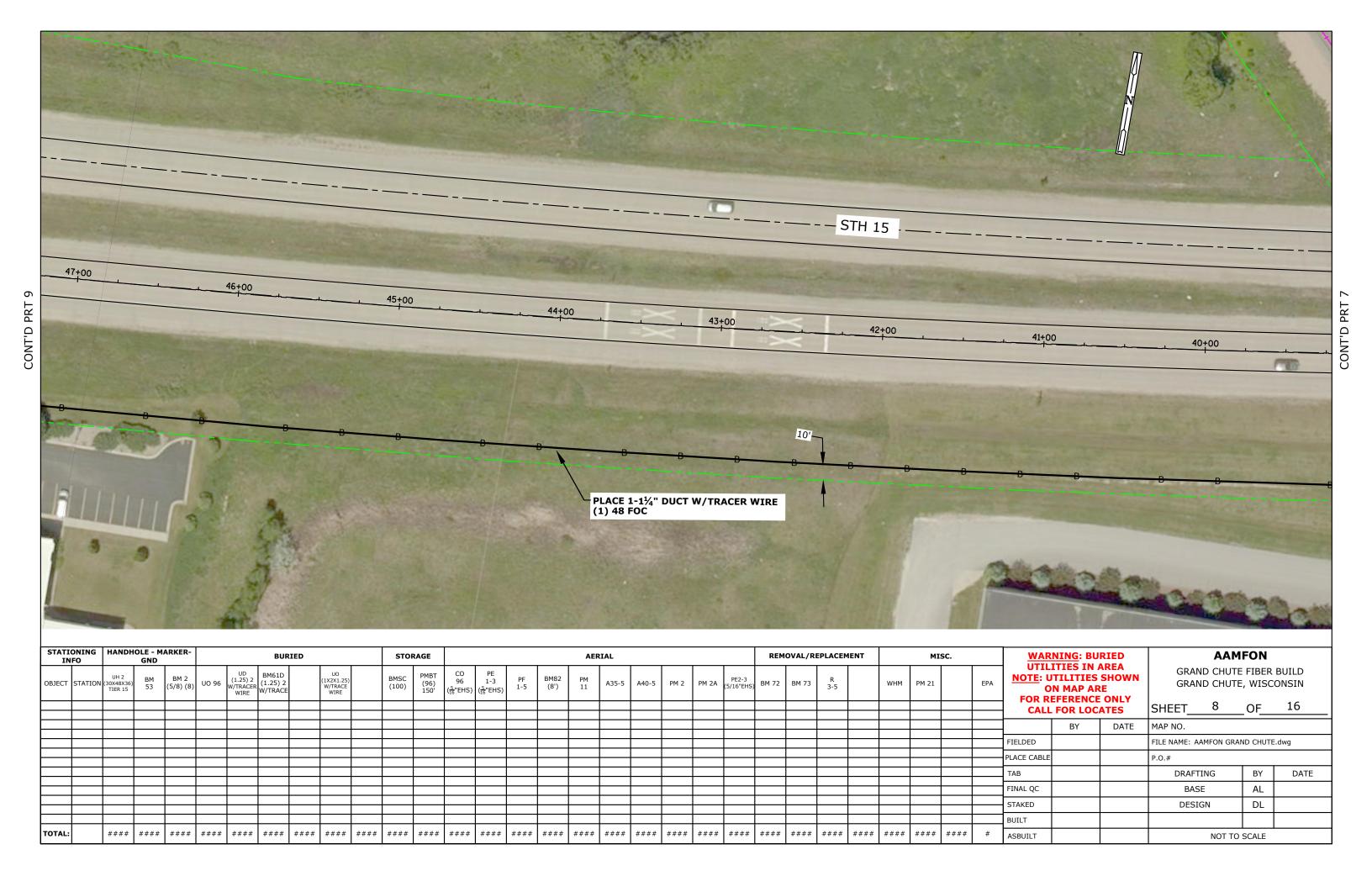


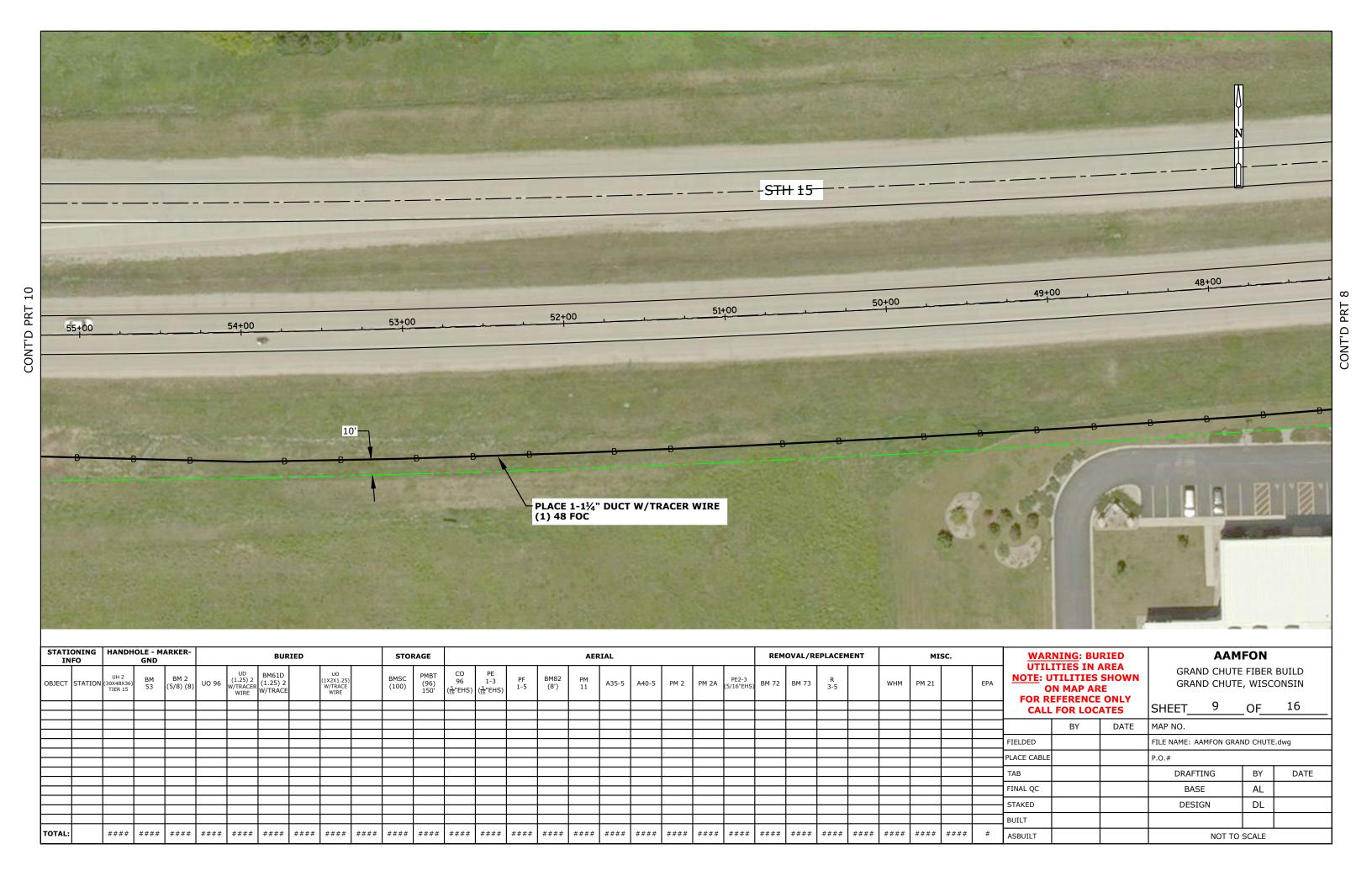
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BJECT	JECT STATION (30X4		BM 53	BM 2 (5/8) (8)	12 UD (1.25) 1 W/TRACE WIRE	BM61D (1.25) 1 W/TRAC	E	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16"EHS)	PE 1-3 (<u>5</u> "EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS	BM 72	BM 73	R 3-5		WHM	PM 21		EPA	NOTE: U	ITIES IN A TILITIES N MAP AF	SHOWN RE	GRAND CHU		
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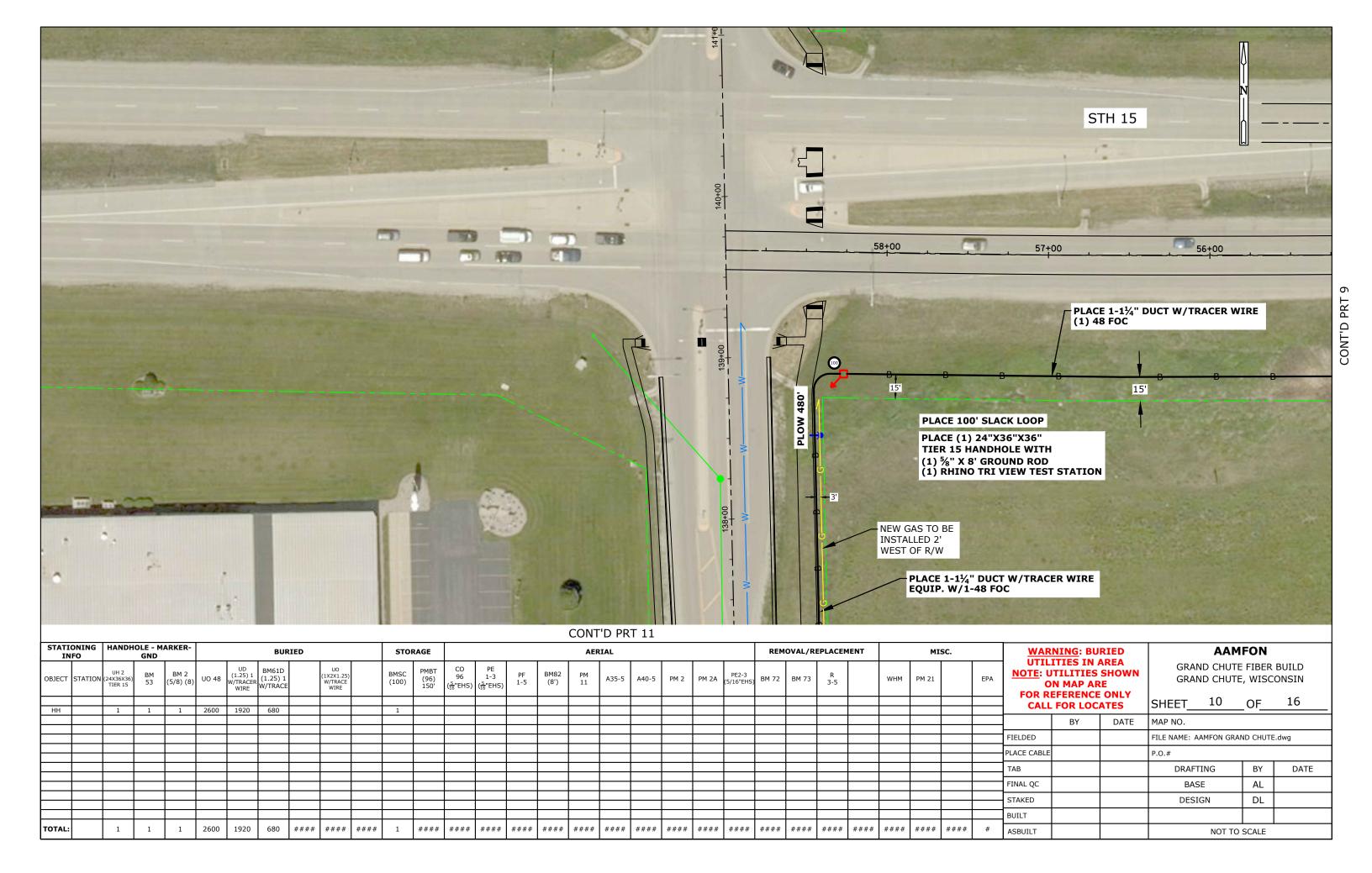


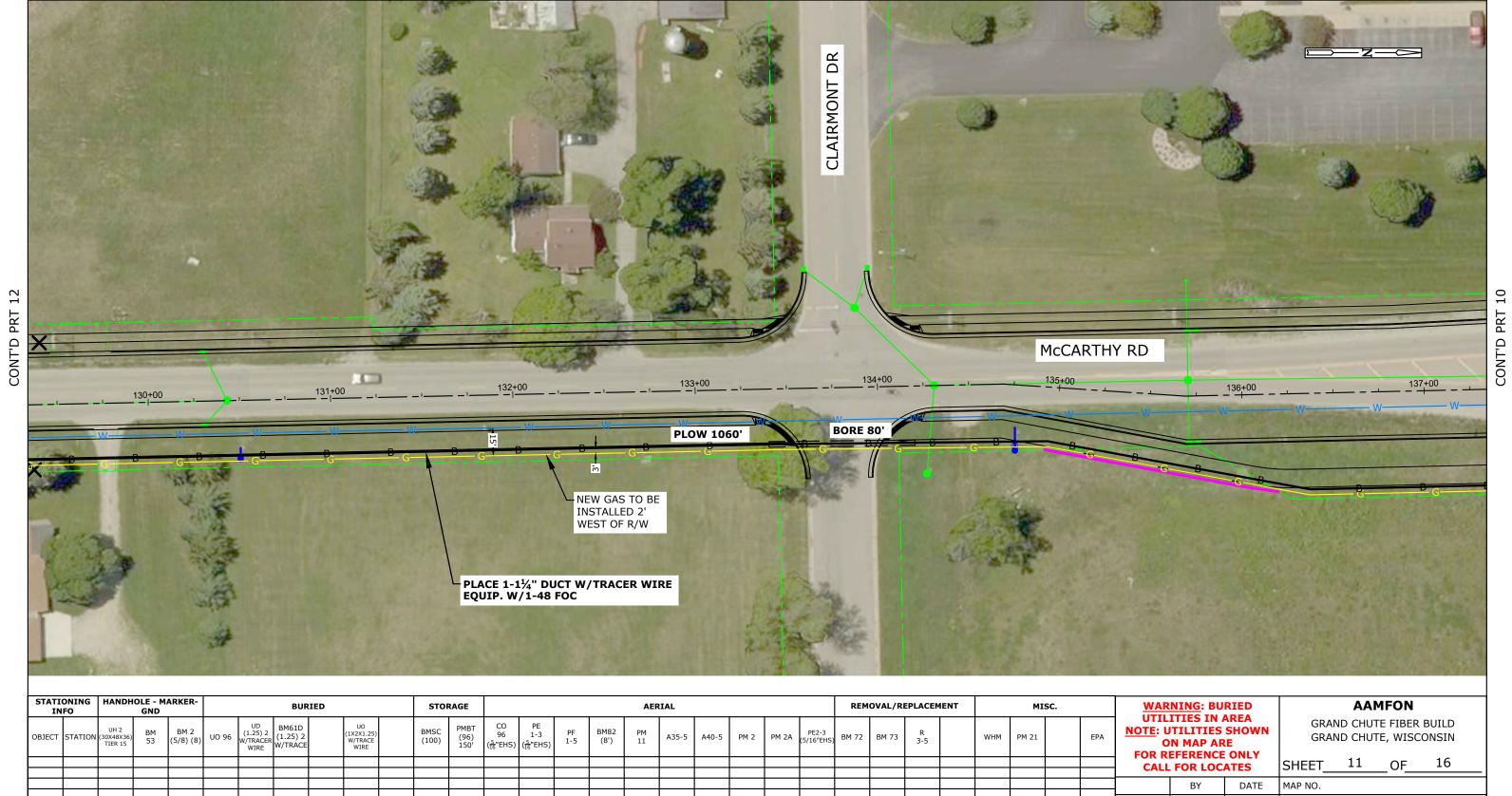












	TIONING NFO	HANDH	IOLE - M. GND	ARKER-	R- BURIED				BURIED					AERIAL AERIAL										OVAL/RI	EPLACEM	IENT		MI	sc.		WARNING: BURIED UTILITIES IN AREA			AAMFON			
OBJEC	T STATIO	UH 2 N (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACE WIRE	BM61D (1.25) 2 W/TRAC	2 E	UO (1X2X1.25 W/TRACE WIRE)	BMSC (100)	PMBT (96) 150'	CO 96 (5/16"EHS)	PE 1-3 (<u>5</u> "EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA	NOTE: U	TILITIES N MAP AR EFERENCE	SHOWN E	GRAND CHUT GRAND CHUT			
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