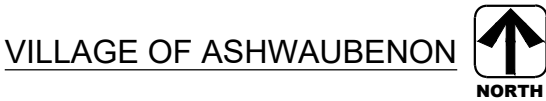
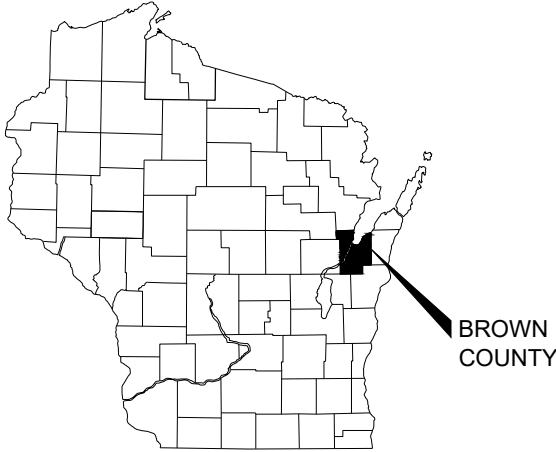
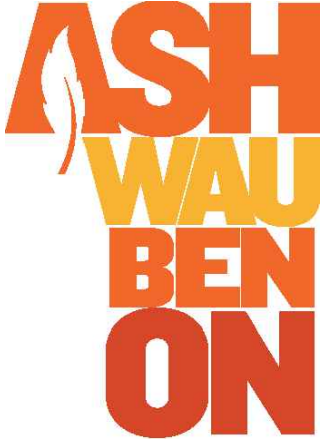
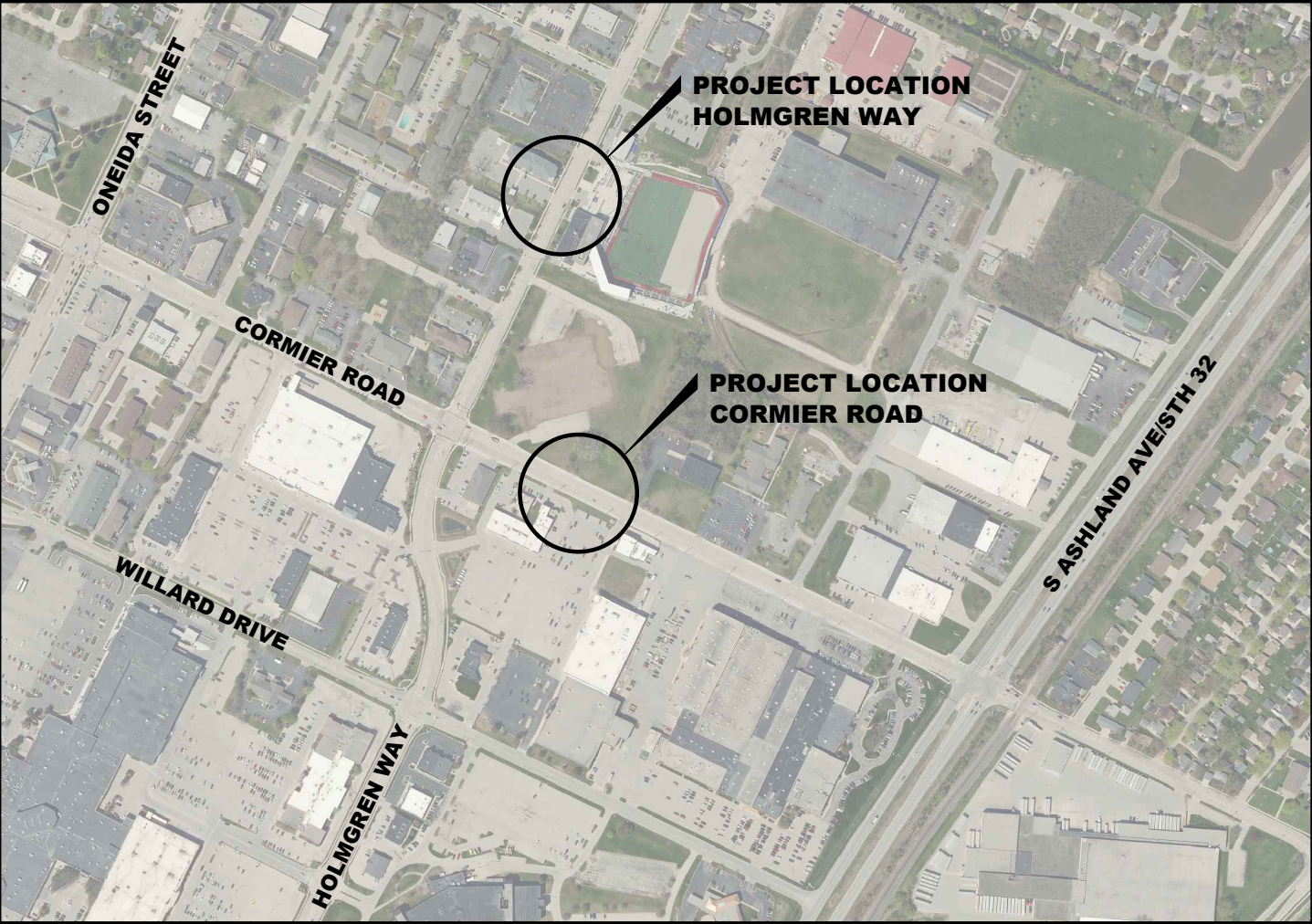


HOLMGREN WAY & CORMIER ROAD 2025 RRFB

VILLAGE OF ASHWAUBENON

APRIL 2025

SHEET INDEX	
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D-1	GENERAL DETAILS
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COUNTY MAP
NTS

AA-Standard.sbf
4/30/2025
I:\25\Ashwaubenon Village of 56-0121.32 Ashwaubenon RRFB Holmgren-Cormier\CD\Sheets\1-Title Sheet.dwg, Layout: G-1

DES BY	AMS	PROJ NO	56-0121.32	1	4/30/2025	ADDENDUM NO 1			
DR BY	JWS	DATE	APRIL 2025	NO	DATE	REVISION	NO	DATE	REVISION
CHK BY	TAH								

HOLMGREN WAY & CORMIER ROAD 2025 RRFB
VILLAGE OF ASHWAUBENON



TITLE SHEET

SHEET NO.
G-1

EXISTING

SANITARY SEWER

WATER MAIN

STORM SEWER

UNDERGROUND GAS

UNDERGROUND ELECTRIC

UNDERGROUND FIBER OPTIC

UNDERGROUND TELEPHONE

UNDERGROUND VIDEO

OVERHEAD ELECTRIC

OVERHEAD UTILITY

UTILITY POLES:

TELEPHONE POLE

LIGHT POLE

CURB AND GUTTER

HARD SURFACED ROADWAY

NON-SURFACED ROADWAY

SIDEWALK

STREET CENTERLINE

RETAINING WALL

TREES

TREE LINE

HEDGE OR BUSH LINE

BUSH / SHRUB

CONTOURS

DITCH

FENCE

FENCE CHAIN LINK

FENCE WOOD

RIGHT OF WAY

PROPERTY LINE

SECTION LINE

WETLAND

SWAMP EDGE

WATER'S EDGE

RAILROAD

BUILDING

GUARD RAIL

ANCHOR

CONTROL BOX

METER

PARKING METER

POLE

PULLBOX

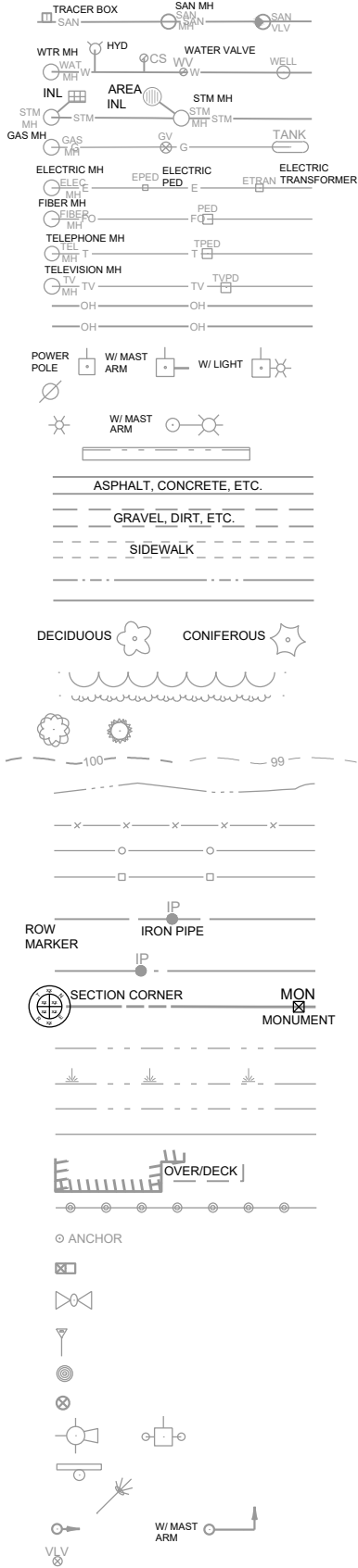
RR SIGNAL FLASHER / BOX

SIGN

SPRINKLER HEAD

TRAFFIC SIGNAL

VALVE



NEW

SANITARY SEWER

FORCE MAIN

WATER MAIN

STORM SEWER

HARD SURFACE ROADWAY

NON-SURFACED ROADWAY

CURB AND GUTTER

SIDEWALK

BASELINE

CONTOURS

FENCE

PERMANENT EASEMENT

TEMPORARY EASEMENT

UTILITY EASEMENT

SETBACK

RETAINING WALL

POND

DITCH

SILT FENCE

EROSION BALES

EROSION MAT

EROSION LOG

SAW CUT

DEMOLITION / REMOVAL

GUARD RAIL

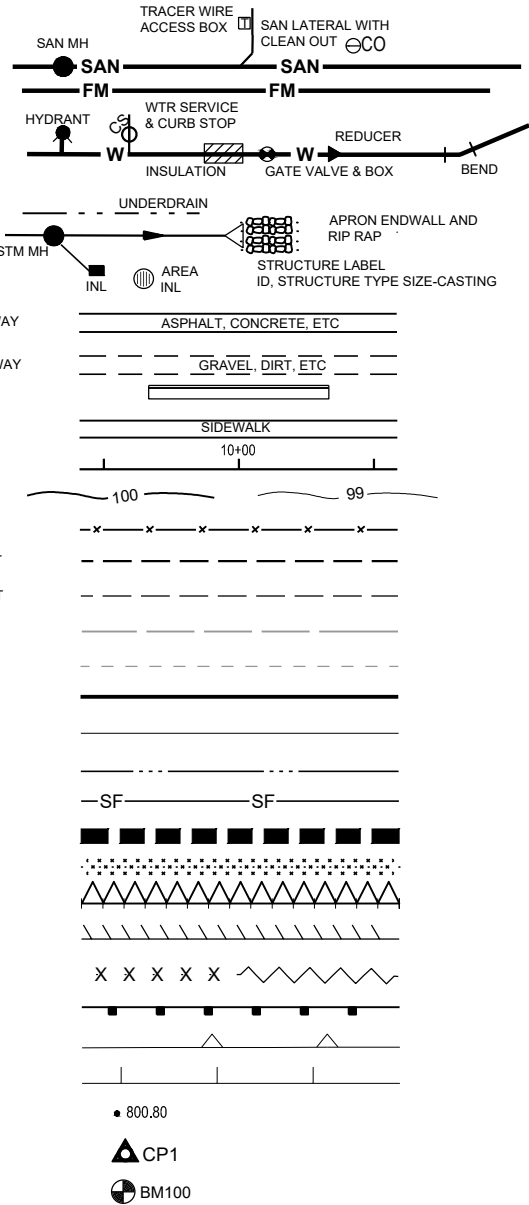
TOP OF CUT

TOP OF FILL

SPOT ELEVATION

CONTROL POINT

BENCHMARK



DIGGERSHOTLINE
Dial 811 or (800)242-8511
www.DiggersHotline.com

ABBREVIATIONS:

AC	ASBESTOS CONCRETE	HMA	HOT MIX ASPHALT	TC	TOP BACK OF CURB
A/E	ARCHITECT/ENGINEER	HSE	HOUSE	TEL	TELEPHONE
AL	ALUMINUM	HW	HOT WATER	THK	THICKNESS
ALT/	ALTERNATE	HWR	HOT WATER RETURN	THRU	THROUGH
APPROX	APPROXIMATE	HYD	HYDRANT	TLE	TEMPORARY LIMITED EASEMENT
ASPH	ASPHALT	ID	INSIDE DIAMETER	T/O/P	TOP OF PIPE
AUTO	AUTOMATIC	IN (")	INCHES	TYP	TYPICAL
AVE	AVENUE	INF	INFLUENT	UNEXC	UNEXCAVATED
@	AT	INL	INLET	USH	UNITED STATES HIGHWAY
BC	BACK OF CURB	INSUL	INSULATION	V	VALVE
BIT	BITUMINOUS	INV	INVERT	V&B	VALVE & BOX
BLDG	BUILDING	IP	IRON PIPE	VAR	VARIABLE
BLK	BLOCK	JT	JOINT	VC	VERTICAL CURVE
BLVD	BOULEVARD	LC	LENGTH OF CURVE	W	WEST
BM	BENCHMARK	LF	LINEAL FEET	W/	WITH
BO	BREAKOFF	LP	LIGHT POLE	W/O	WITHOUT
BOW	BACK OF SIDEWALK	LS	LUMP SUM	WM	WATER MAIN
BTM	BOTTOM	LT	LEFT	WS	WATER SURFACE
B/L	BASELINE	MAS	MASONRY	WTP	WATER TREATMENT PLANT
C&G	CURB AND GUTTER	MAX	MAXIMUM	WTR	WATER
CB	CATCH BASIN	MFG	MANUFACTURER	WWF	WELDED WIRE FABRIC
CF	CUBIC FOOT	MH	MANHOLE	WWM	WOVEN WIRE MESH
CI	CAST IRON	MIN	MINIMUM	WWTP	WASTEWATER TREATMENT PLANT
CIP	CAST-IN-PLACE	MISC	MISCELLANEOUS		
CL	CENTERLINE	MJ	MECHANICAL JOINT		
CHL	CHLORINE	MP	MID POINT		
CMP	CORRUGATED METAL PIPE	MR	MID RADIUS BACK OF CURB		
CMU	CONCRETE MASONRY UNIT	N	NORTH		
CO	CLEANOUT	NO #	NUMBER		
CONC	CONCRETE	NOM	NOMINAL		
COS	CENTER OF STRUCTURE	NPW	NON-POTABLE WATER		
CP	CONTROL POINT	NTS	NOT TO SCALE		
CPLG	COUPLING	OC	ON CENTER		
CPP	CORRUGATED POLYPROPYLENE PIPE	OD	OUTSIDE DIAMETER		
CSP	CORRUGATED STEEL PIPE	OH	OVERHEAD		
CTH	COUNTY TRUNK HIGHWAY	PC	POINT OF CURVE		
CULV	CULVERT	PE	PRIVATE ENTRANCE		
CV	CHECK VALVE	PED	PEDESTAL		
CW	COLD WATER	PERF	PERFORATE		
CY	CUBIC YARD	PI	POINT OF INTERSECTION		
DEG °	DEGREE	PLE	PERMANENT LIMITED EASEMENT		
DI	DUCTILE IRON	P/L	PROPERTY LINE		
DIA	DIAMETER	PP	POWER POLE		
DIM	DIMENSION	PSF	POUNDS PER SQUARE FOOT		
DR	DOOR	PSI	POUNDS PER SQUARE INCH		
DTL	DETAIL	PT	POINT OF TANGENCY		
DW	DRIVEWAY	PVC	POLYVINYL CHLORIDE		
DWG	DRAWING	PVMT	PAVEMENT		
E	EAST	%	PERCENT		
EA	EACH	QTY	QUANTITY		
EFF	EFFLUENT	RAD	RADIUS		
EL	ELEVATION	RCP	REINFORCED CONCRETE PIPE		
ELB	ELBOW	RD	ROAD		
ELEC	ELECTRICAL	RDWY	ROADWAY		
EQ	EQUAL	RED	REDUCER		
ER	END RADIUS BACK OF CURB	REF	REFERENCE		
EW	EACH WAY	REQD	REQUIRED		
EX	EXISTING	REV	REVISED		
EXP	EXPANSION	RR	RAILROAD		
FF	FINISHED FLOOR	RT	RIGHT		
FD	FLOOR DRAIN	RW	RIGHT OF WAY		
FDN	FOUNDATION	S	SOUTH		
FERT	FERTILIZER	SAN	SANITARY		
F-F	FACE TO FACE	SAMH	SANITARY MANHOLE		
FIN	FINISHED	SCH	SCHEDULE		
FL	FLOWLINE	SF	SQUARE FOOT		
FLG	FLANGED	SHT	SHEET		
FM	FORCE MAIN	SL	SLOPE		
FT (')	FOOT	SPEC	SPECIFICATION		
FTG	FOOTING	SQ	SQUARE		
FV	FIELD VERIFY	SS	STAINLESS STEEL		
G	GAS	SSMH	STORM SEWER MANHOLE		
GA	GAGE	ST	STREET		
GALV	GALVANIZED	STD	STANDARD		
GAR	GARAGE	STH	STATE TRUNK HIGHWAY		
GEN	GENERAL	STL	STEEL		
GRD	GRADE, GROUND	STM	STORM		
GV	GATE VALVE	SW	SIDEWALK		
GRAV	GRAVEL	SY	SQUARE YARD		
GW	GROUNDWATER				

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CHK BY	TAH								

HOLMGREN WAY & CORMIER ROAD 2025 RRFB
VILLAGE OF ASHWAUBENON



GENERAL SYMBOLS AND ABBREVIATIONS

SHEET NO.

G-2

GENERAL PROJECT NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING PROPERTY IRONS. PROPERTY IRONS REMOVED OR DISTURBED DURING CONSTRUCTION SHALL BE RE-ESTABLISHED BY A REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
2. CONTRACTOR SHALL NOT OPERATE CONSTRUCTION EQUIPMENT OUTSIDE OF CONSTRUCTION EASEMENTS OR VILLAGE RIGHT-OF-WAY WITHOUT WRITTEN APPROVAL FROM ENGINEER AND PROPERTY OWNER.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING ASPHALT OR CONCRETE ON STREETS OUTSIDE OF PROPOSED SAW CUTS. ANY DAMAGE DURING CONSTRUCTION UNDER THIS CONTRACT SHALL BE REPAIRED OR REPLACED AT CONTRACTOR'S EXPENSE.
4. WORK ITEMS SHOWN SHALL BE INCIDENTAL TO CONTRACT OTHERWISE INCLUDED IN THE BID FORM.
5. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES TO AVOID POTENTIAL CONFLICTS.
6. ALL MATERIALS USED FOR CONSTRUCTION OF THE IMPROVEMENTS SHALL MEET THE MINIMUM MATERIAL AND INSTALLATION REQUIREMENTS OF THE VILLAGE OF ASHWAUBENON AND THE SPECIFICATION OF THIS PROJECT.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING UTILITIES AND APPURTENANCES. TEMPORARY REMOVAL AND ANY DAMAGE DURING CONSTRUCTION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
8. SEE SPEC SECTION 31 05 10 FOR ABANDONMENTS, REMOVALS, AND SALVAGED MATERIALS.
9. ASPHALT OR CONCRETE ROADWAY AND SIDEWALK AND CONCRETE CURB & GUTTER SHALL BE SAW CUT PRIOR TO RESTORATION. SAW CUTTING SHALL BE INCIDENTAL TO CONSTRUCTION.
10. FINAL SAW CUTTING LIMITS ON SIDEWALK WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

EROSION CONTROL NOTES

1. INSTALL EROSION CONTROL PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY.
2. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION UNTIL THE SITE IS STABILIZED BY VEGETATION OR OTHER APPROVED MEASURES.
3. EROSION CONTROL DEVICES DESTROYED OR DAMAGED SHALL BE REPAIRED BY THE END OF THE WORK DAY.
4. INSPECT ALL EROSION CONTROL MEASURES AT LEAST ONCE A WEEK AND AFTER ANY RAINFALL OF 0.5-INCHES OR MORE AND MAKE NEEDED REPAIRS. RECORD INSPECTIONS AS SPECIFIED.
5. OFF-SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF A STORM EVENT SHALL BE CLEANED UP BY THE END OF THE NEXT WORK DAY. ALL OFF-SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF CONSTRUCTION ACTIVITIES, INCLUDING SOIL TRACKED BY CONSTRUCTION TRAFFIC, SHALL AT A MINIMUM, BE CLEANED BY THE END OF EACH WORK DAY. EXCESSIVE AMOUNTS OF SEDIMENT OR DEBRIS TRACKED ONTO ADJACENT STREETS SHALL BE CLEANED IMMEDIATELY. FINE SEDIMENT ACCUMULATIONS SHALL BE CLEANED FROM ADJACENT STREETS BY THE USE OF MECHANICAL OR MANUAL SWEEPING OPERATIONS ONCE A WEEK AT A MINIMUM AND BEFORE IMMINENT RAIN EVENTS.
6. ALL SEDIMENT LADEN WATER PUMPED FROM THE SITE SHALL BE TREATED BY A TEMPORARY SEDIMENT BASIN OR BE FILTERED BY OTHER APPROVED MEANS. WATER SHALL NOT BE DISCHARGED IN A MANNER THAT CAUSES EROSION OF THE SITE OR RECEIVING CHANNELS. SEE GENERAL NOTES.
7. ALL ACTIVITIES SHALL BE CONDUCTED IN A LOGICAL SEQUENCE AS TO MINIMIZE THE AMOUNT OF BARE SOIL EXPOSED AT ANY ONE TIME. MAINTAIN EXISTING VEGETATION AS LONG AS POSSIBLE.
8. DRAWINGS SHOW GENERAL LOCATIONS OF EROSION CONTROL DEVICES AND SIGNS. ACTUAL LOCATIONS MAY VARY AS DETERMINED BY ENGINEER IN THE FIELD.

PROJECT CONTACTS

NAME OF OWNER	ADDRESS	CONTACT PERSON	PHONE NUMBER/EMAIL	SERVICE
VILLAGE OF ASHWAUBENON	2155 HOLMGREN WAY ASHWAUBENON, WI 54304	BRIAN RICKERT	(920) 492-2308	DIRECTOR OF PUBLIC WORKS
VILLAGE OF ASHWAUBENON	2155 HOLMGREN WAY ASHWAUBENON, WI 54304	STEVE BIRR	(920) 492-2308	VILLAGE ENGINEER
VILLAGE OF ASHWAUBENON	2155 HOLMGREN WAY ASHWAUBENON, WI 54304	AL FARVOUR	(920) 492-2335	UTILITY OPERATIONS SUPERVISOR
VILLAGE OF ASHWAUBENON	2155 HOLMGREN WAY ASHWAUBENON, WI 54304	MATTHEW SMITH	(920) 615-1600	ENGINEERING TECHNICIAN
WPS	PO BOX 19001 GREEN BAY, WI 54307-9001	JEFF HENKELMANN	OFFICE: (920) 617-2778 CELL: (920) 680-7618 jeffrey.henkelmann@wisconsinpublicservice.com	SERVICE MANAGER
WPS		EMERGENCY NUMBER	(800) 450-7280	NATURAL GAS
WPS		EMERGENCY NUMBER	(800) 450-7240	ELECTRIC
ATT WISCONSIN	211 W WASHINGTON ST APPLETON, WI 54911	JOHN MEYER	(414) 469-7146	CONSTRUCTION MANAGER
ATT WISCONSIN	205 S JEFFERSON ST GREEN BAY, WI 54301	KAREN WELLS	(920) 433-4226	ENGINEERING/DESIGN
SPECTRUM CHARTER COMMUNICATIONS	3520 DESTINATION DR APPLETON, WI 54915	SCOTT DECLARK	(920) 378-0440	CABLE
TDS		STEVE JAKUBIEC	Steve.Jakubiec@tdstelecom.com	FIBER
LUMEN		RYAN BIRDSALL	(608) 658-2899	FIBER
PUBLIC SAEFTY	2155 HOLMGREN WAY ASHWAUBENON, WI 54304	NON-EMERGENCY	(920) 492-2995	POLICE, FIRE AND MEDICAL
AYRES ASSOCIATES	700 PILGRIM WAY, SUITE 180 GREEN BAY, WI 54304	ANDY ROWELL	OFFICE: (920) 498-1200 CELL: (920) 413-1284	TRAFFIC ENGINEER
AYRES ASSOCIATES	700 PILGRIM WAY, SUITE 180 GREEN BAY, WI 54304	TRACE HUBBARD	(920) 498-1200	PROJECT MANAGER

HORIZONTAL & VERTICAL CONTROL - CORMIER ROAD

CONTROL POINT BENCH MARK	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP-1	557153.11	88446.31	605.28	5/8" REBAR
CP-2	557218.20	88308.64	606.89	5/8" REBAR
BM-100	557220.28	88300.13	608.41	BURY BOLT ON HYDRANT

HORIZONTAL & VERTICAL CONTROL - HOLMGREN WAY

CONTROL POINT BENCH MARK	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP-3	558197.18	88256.76	609.29	5/8" REBAR
CP-4	558275.45	88380.59	609.36	5/8" REBAR
BM-101	558279.00	88297.31	610.64	BURY BOLT ON HYDRANT

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DES BY	AMS	PROJ NO							
DR BY	JWS	56-0121.32							
CHK BY	TAH	DATE	APRIL 2025	1	4/30/2025	ADDENDUM NO 1			
				NO	DATE	REVISION	NO	DATE	REVISION

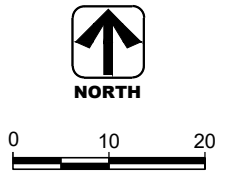
HOLMGREN WAY & CORMIER ROAD 2025 RRFB
VILLAGE OF ASHWAUBENON



GENERAL NOTES

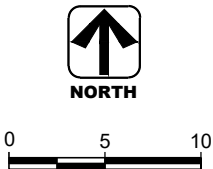
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G-3





AA-Standard.snb
4/30/2025
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2220
ASHARAM LLC



2231
VILLAGE OF ASHWAUBENON

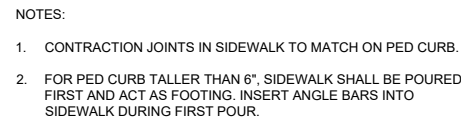
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DR BY	JWS	DATE	APRIL 2025	NO	DATE	REVISION	NO	DATE	REVISION
CHK BY	TAH								

HOLMGREN WAY & CORMIER ROAD 2025 RRFB
VILLAGE OF ASHWAUBENON



HOLMGREN WAY GRADING PLAN

SHEET NO.
C-104



The diagram illustrates the construction of a typical sidewalk. The top portion is a plan view showing a sidewalk with expansion joints (labeled A and B) and a contraction joint. The sidewalk is 100' OC MAX. The plan view also shows the sidewalk's width (W) and a maximum width of 6' (W (6' MAX)). The sidewalk is adjacent to a building or structure (BLDG OR STRUCTURE). The plan view also shows the sidewalk's depth (PLAN DIM) and a slope. The bottom portion shows two cross-sections: (A) EXPANSION JOINT and (B) CONTRACTION JOINT. Section (A) shows a 1/2" expansion joint filler. Section (B) shows a 1/2" depth of slab. The bottom portion also shows a typical section of the sidewalk with a 6" concrete layer and a 4" - 1 1/2" crushed aggregate base, which is compacted native material.

EXPANSION JOINTS
100' OC MAX

CONTRACTION JOINT

PLAN DIM

BLDG OR STRUCTURE

W (6' MAX)

W

SLOPE

PLAN - TYPICAL SIDEWALK

1/2" EXPANSION JOINT FILLER

1/2" DEPTH OF SLAB

(A) EXPANSION JOINT

(B) CONTRACTION JOINT

6" CONCRETE

4" - 1 1/2" CRUSHED AGGREGATE BASE

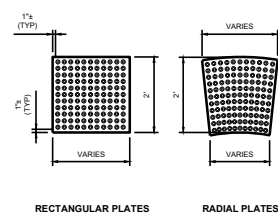
COMPACTED NATIVE MATERIAL

TYPICAL SECTION

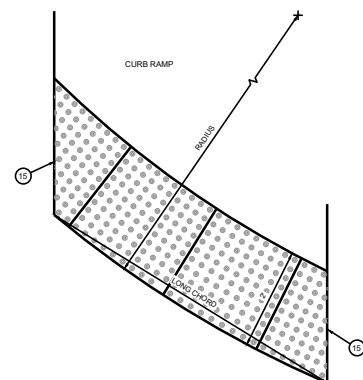
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★ The 'C' DIMENSION IS 50% TO 65% OF THE 'D' DIMENSION.

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



PLAN VIEW
DETECTABLE WARNING FIELDS (TYP)



GENERAL NOTES

DETECTABLE WARNING FIELDS (DWFFs) THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

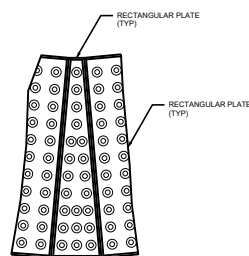
FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FIELD ARE PROHIBITED. DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE A 18" X 18" RADIAL RADIAL, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGES IN COMBINATION WITH SQUARE PATTERN ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

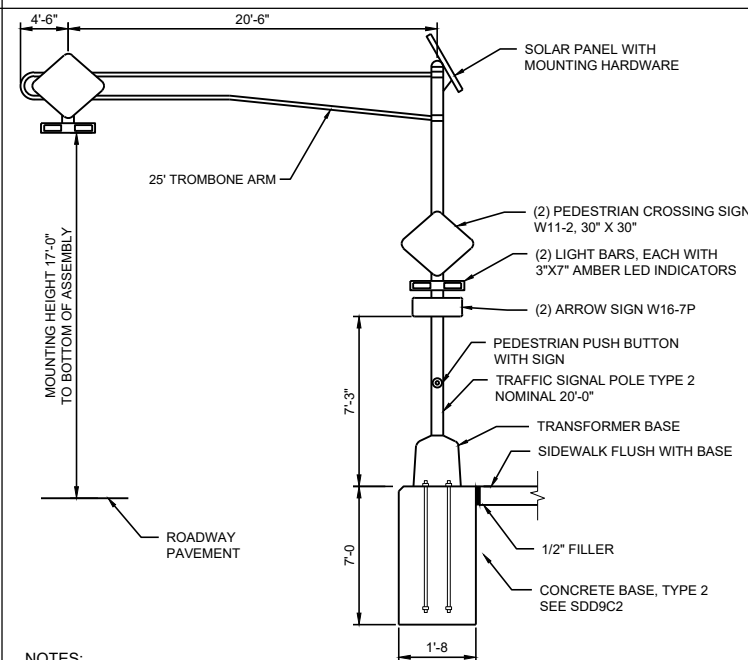
REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6-INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

10. FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN THE MANUFACTURER'S SPECIFIED EDGE OF FIELD CUT PLATE.



PLAN VIEW
RADIAL WEDGE PLATE
CONNECTION DETAIL



GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

2. GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE. MINIMUM 1.5% AND NOT TO EXCEED 7% WHEN ADJACENT TO 1.5% LANDING. CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.
3. ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.
4. +0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
5. PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5-FEET X 5-FEET.
10. INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.
11. SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6-FEET WIDE.
12. THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 15-FEET + 0" FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15-FEET FROM THE NEAREST RAIL.
13. DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STREET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2-FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.

EXPANSION JOINT

6' MIN

1/2\"/>

7% MAX

EXPANSION JOINT

11\"/>

7% MAX

6' MIN

6' MIN

1/2\"/>

SECTION A - A FOR TYPE 5

6' MIN

1/2\"/>

7% MAX

EXPANSION JOINT

11\"/>

7% MAX

6' MIN

6' MIN

1/2\"/>

SECTION B - B FOR TYPE 7A

- * MAXIMUM 8.33%
- ** 1% MIN (PROVIDE DRAINAGE)
- *** DETAILS TO BE DETERMINED BY

LEGEND

———— 1/2" EXPANSION JOINT-SIDEWALK

———— CONSTRUCTION JOINT FIELD LOCATED

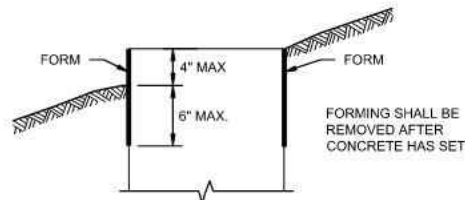
||||||| PAVEMENT MARKING CROSSWALK (WHITE)

CIRCULAR SIGN BOX-OUT



SDD 9C2 Concrete Bases, Types 1, 2, 5 & 6

FORM DEPTH SHALL BE NO MORE THAN 6" BELOW GRADE ON THE LOWER SIDE OF BASE



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5 & 6
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

GENERAL NOTES

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION.

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2, TYPE 5 AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER ALL BASE TYPES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH "L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

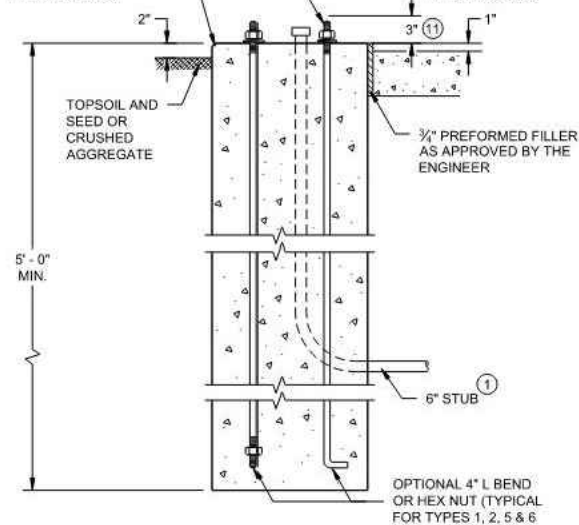
WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

- THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.
- (4) 1" DIA. X 3'-6" ANCHOR RODS.
- (4) 1" DIA. X 5'-0" ANCHOR RODS.
- (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.
- (7) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.
- (4) 1" DIA. X 3'-6" ANCHOR RODS.
- (6) NO. 4 X 4'-8" BAR STEEL REINFORCEMENT.
- (5) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.
- EXOTHERMIC CONNECTION TO EQUIPMENT GROUNDING CONDUCTOR
- 5/8" DIA. X 8'-0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED
- ANY ANCHOR ROD PROJECTION SHORTER THAN 2 3/4" OR LONGER THAN 3 3/4" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
- FOR NON-BREAKAWAY INSTALLATIONS, 4 1/2" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS, RODENT SCREEN REQUIRED.

HALF SECTION IN UNPAVED AREA

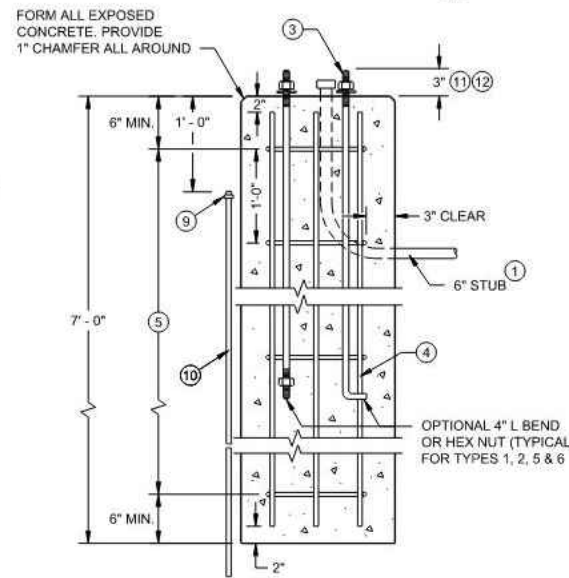
(TYPICAL FOR TYPES 1, 2, 5 & 6)



TYPE 1

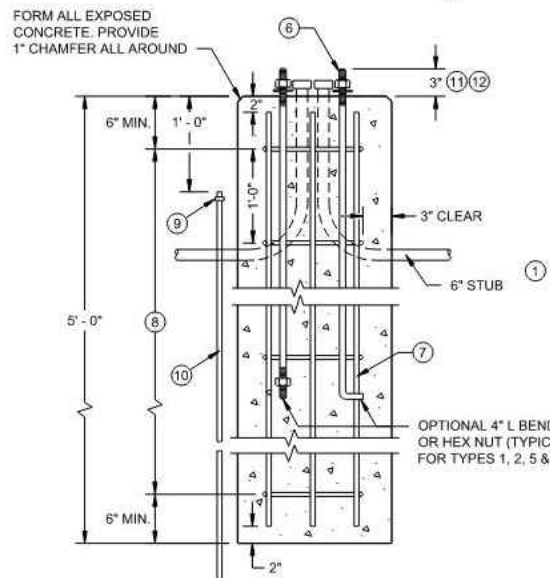
HALF SECTION IN PAVEMENT

(TYPICAL FOR TYPES 1, 2, 5 & 6)



TYPE 2

CONCRETE BASES



TYPE 5 & 6

CONCRETE BASES TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGINEER

6

SDD 09C02 - 09

6

SDD 09C02 - 09

DES BY	AMS	PROJ NO	56-0121.32	1	4/30/2025	ADDENDUM NO 1	NO	DATE	REVISION	NO	DATE	REVISION
DR BY	JWS	DATE	APRIL 2025	NO	DATE	REVISION	NO	DATE	REVISION	NO	DATE	REVISION
CHK BY	TAH	DATE	APRIL 2025	NO	DATE	REVISION	NO	DATE	REVISION	NO	DATE	REVISION

HOLMGREN WAY & CORMIER ROAD 2025 RFB
VILLAGE OF ASHWAUBENON



WISDOT DETAILS

SHEET NO.
D-2