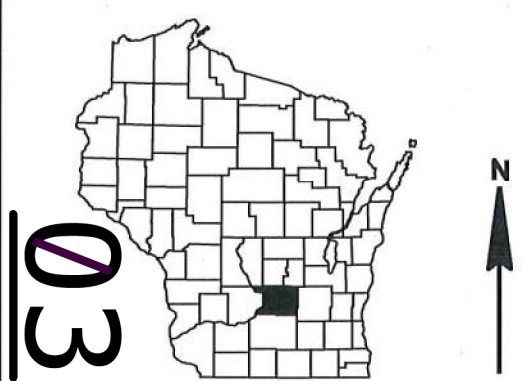


MAD PROJECT ID: 5640-01-87 WITH: N/A COUNTY: COLUMBIA

JUNE 2025  
ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plot
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 56



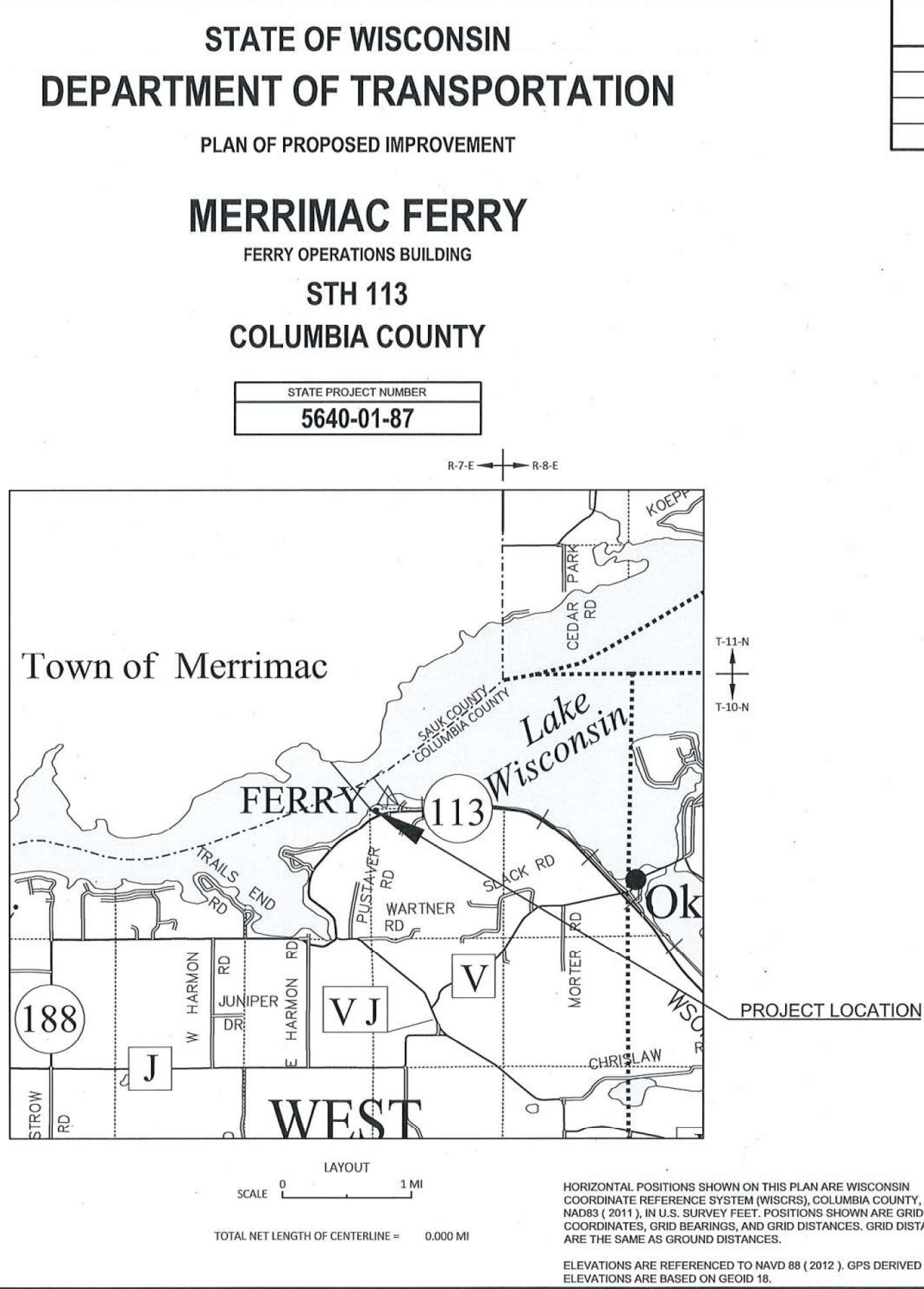
DESIGN DESIGNATION

A.A.D.T.	=	N/A
A.A.D.T.	=	N/A
D.H.V.	=	N/A
D.D.	=	N/A
T.	=	N/A
DESIGN SPEED	=	N/A
ESALS	=	N/A

CONVENTIONAL SYMBOLS

PLAN	
CORPORATE LIMITS	
PROPERTY LINE	
LOT LINE	
LIMITED HIGHWAY EASEMENT	
EXISTING RIGHT OF WAY	
PROPOSED OR NEW R/W LINE	
SLOPE INTERCEPT	
REFERENCE LINE	
EXISTING CULVERT	
PROPOSED CULVERT (Box or Pipe)	
COMBUSTIBLE FLUIDS	
MARSH AREA	
WOODED OR SHRUB AREA	

PROFILE	
GRADE LINE	
ORIGINAL GROUND	
MARSH OR ROCK PROFILE (To be noted as such)	
SPECIAL DITCH	
GRADE ELEVATION	
CULVERT (Profile View)	
UTILITIES	
ELECTRIC	
FIBER OPTIC	
GAS	
SANITARY SEWER	
STORM SEWER	
TELEPHONE	
WATER	
UTILITY PEDESTAL	
POWER POLE	
TELEPHONE POLE	



STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
5640-01-87	WISC 2025557	1

ORIGINAL PLANS PREPARED BY

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STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

PREPARED BY

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Regional Examiner	REGIONAL EXAMINER
Regional Supervisor	MARC SCHWEIGER, P.E.

APPROVED FOR THE DEPARTMENT  
DATE: 2/24/2025 (Signature)

E

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DIGGERSHOTLINE

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ORDER OF SECTION 2 DETAIL SHEETS

- GENERAL NOTES
- CONSTRUCTION DETAILS
- CONTOUR MAP - SITE PLAN
- BUILDING PLAN
- TRAFFIC CONTROL

PARKING LOT ASPHALTIC SURFACE 3.5-INCHES		
LAYER	THICKNESS	TYPE
UPPER	1.75-INCHES	12.5 MM
LOWER	1.75-INCHES	12.5 MM

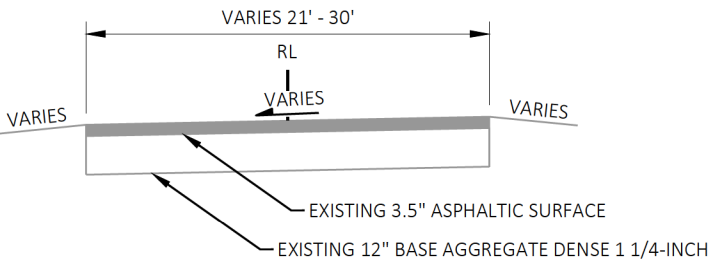
GENERAL NOTES

- THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
- RESHAPE AND SEED ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY OPERATIONS, OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS.
- ASPHALTIC SURFACE WEIGHT CALCULATIONS ARE BASED ON 112 LBS/SY/IN.
- NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.
- RIGHT OF WAY INFORMATION SHOWN ON THE PLANS IS APPROXIMATE.
- WORK WITH UTMOST CARE AND PROTECT ALL SURVEY MARKERS. REMOVAL OF ANY SURVEY MARKER IS TO BE WITH THE APPROVAL OF THE ENGINEER.
- PLACE SALVAGED TOPSOIL 1-INCH BELOW THE TOP OF ADJACENT CONCRETE CURBS OR SIDEWALKS.
- EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT APPROXIMATE LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S EROSION CONTROL IMPLEMENTATION PLAN (ECIP) AND APPROVED BY THE ENGINEER. MAINTAIN EROSION CONTROL MEASURES UNTIL SUCH A TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.
- TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
- DO NOT DRIVE OR STORE EQUIPMENT, OR STORE CONSTRUCTION MATERIALS IN ENVIRONMENTALLY SENSITIVE AREAS, WETLANDS OR WATERWAYS OUTSIDE OF IMMEDIATE BUILDING SITE.

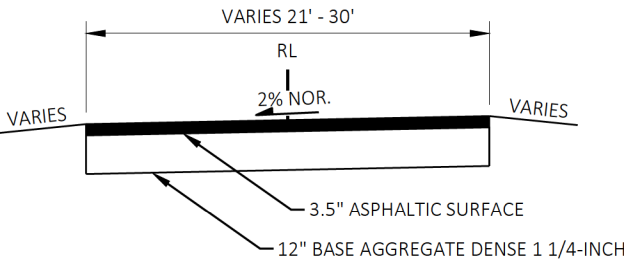
RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS:	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIPTURF:	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPETURF:			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT:	.70 - .95											
CONCRETE:	.80 - .95											
BRICK:	.70 - .80											
DRIVES, WALKS:	.75 - .85											
ROOFS:	.75 - .95											
GRAVEL ROADS, SHOULDERS:	.40 - .60											

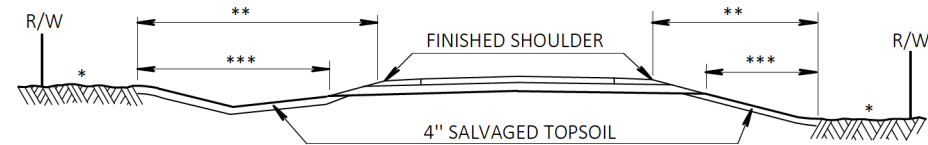
TOTAL PROJECT AREA = 1.60 ACRES  
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.22 ACRES



EXISTING WAYSIDE ROAD TYPICAL SECTION  
STA 5+68.60 - STA 6+86.57

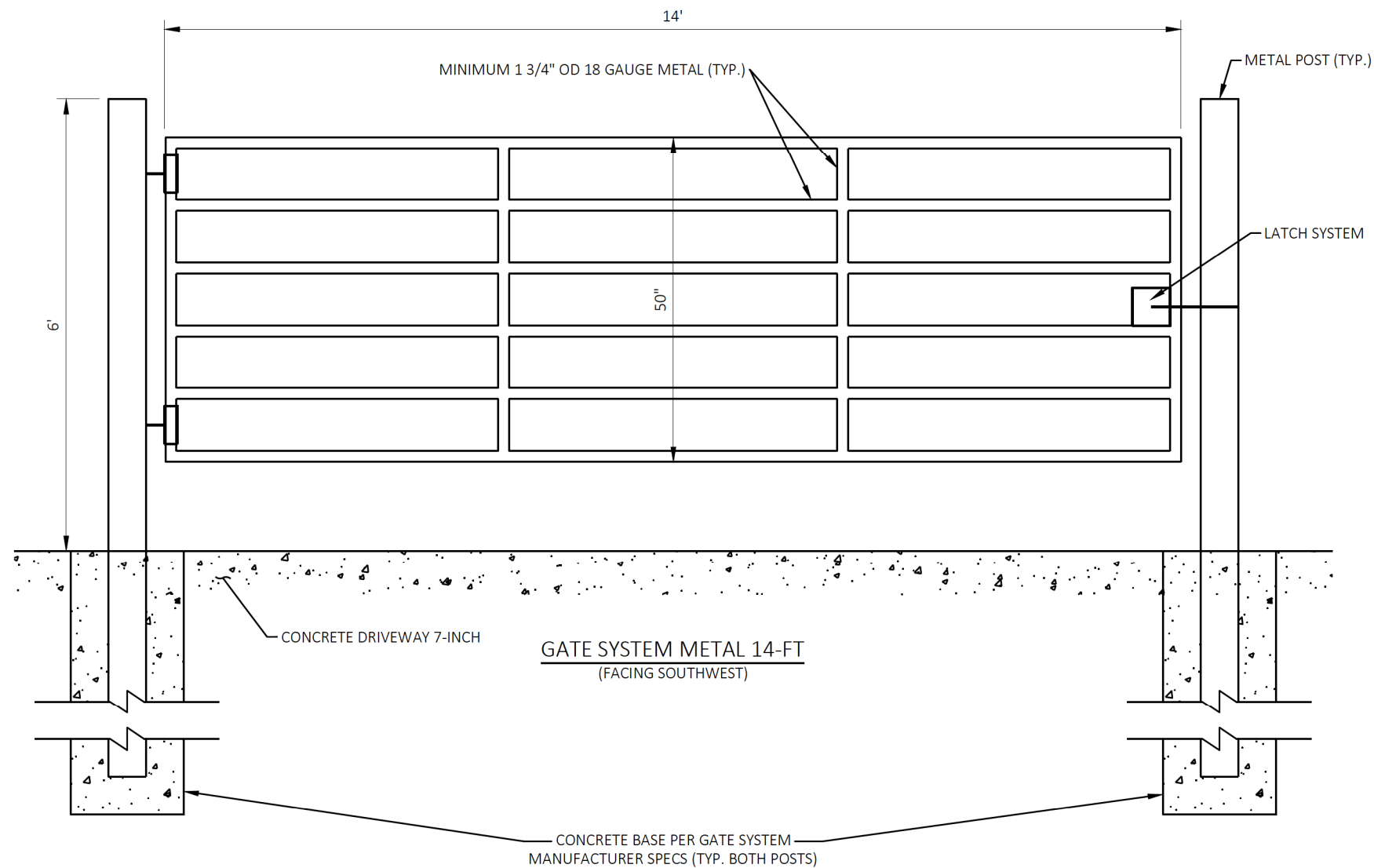


FINISHED WAYSIDE ROAD TYPICAL SECTION  
STA 5+68.60 - STA 6+86.57



- \* DISTURBED AREAS TO BE FERTILIZED & SEEDED
- \*\* FERTILIZER TYPE B AND SEEDING MIXTURE NO. 40
- \*\*\* EROSION MAT URBAN CLASS I TYPE B

#### DETAIL FOR FINISHING ITEMS

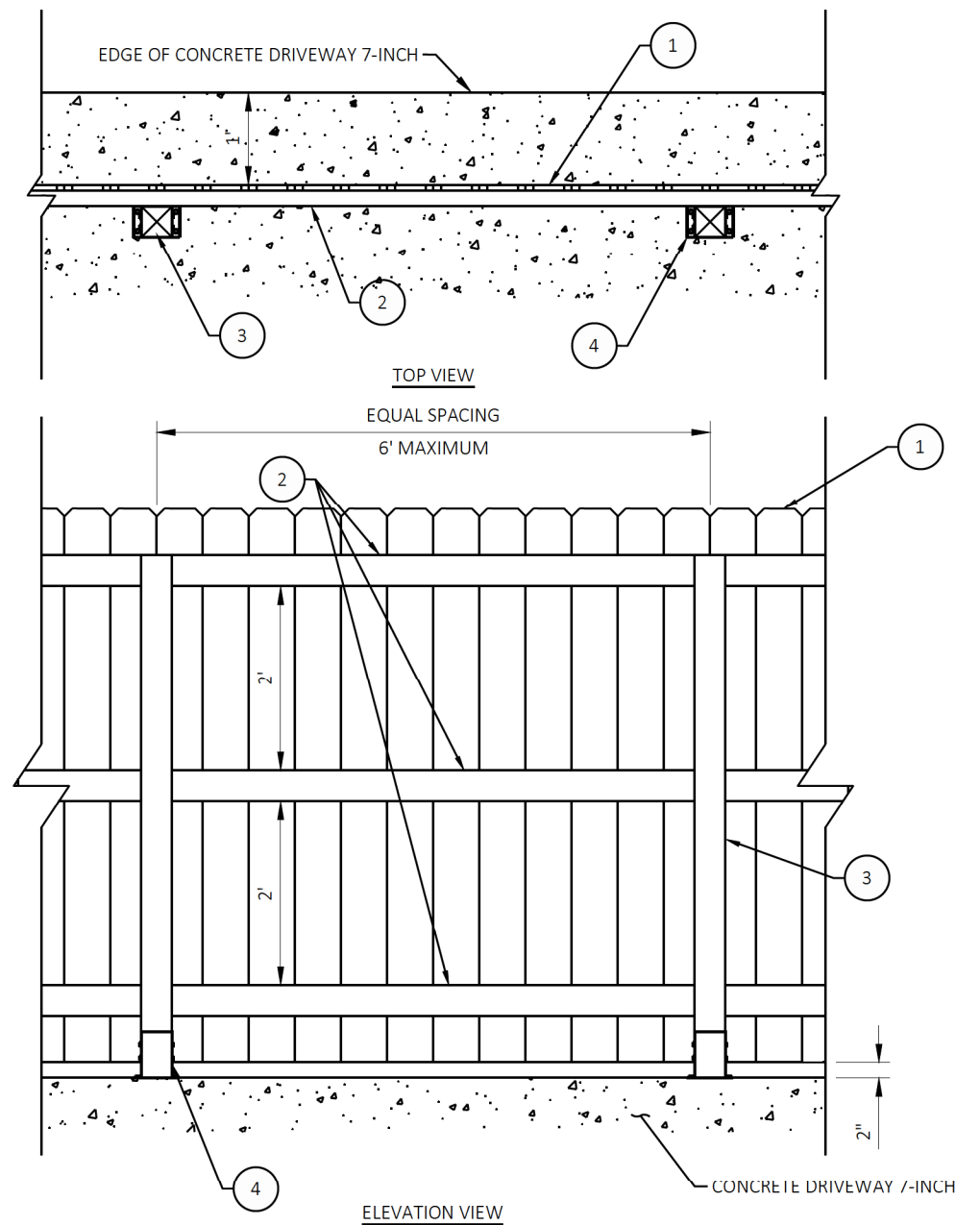


#### NOTES:

BID ITEM SHALL BE "GATE SYSTEM METAL 14 FT" WHICH SHALL INCLUDE ALL ITEMS SHOWN.

GATE SYSTEM SHALL BE SIMILAR TO DETAIL. GATE, MATERIALS, AND AESTHETICS TO BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.

ALL HARDWARE SHALL BE GALVANIZED ACCORDING TO ASTM F2329 OR ASTM B695 CLASS 55 OR POWDER COATED TO MATCH GATE/POSTS.



#### FENCE WOOD 6-FT

- 1 6" X 6" WOOD DOG-EAR FENCE PANEL (5/8" MINIMUM THICKNESS RED CEDAR)
- 2 2" X 4" WOOD RUNNER (RED CEDAR)
- 3 4" X 4" WOOD POST (RED CEDAR)
- 4 METAL POST BASE (GALVANIZED, 12 GAUGE MINIMUM) ANCHORED INTO CONCRETE AND WOOD POST

#### NOTES:

BID ITEM SHALL BE "FENCE WOOD 6-FT" WHICH SHALL INCLUDE ALL ITEMS SHOWN.


ALL MATERIALS TO BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.

ALL HARDWARE SHALL BE GALVANIZED ACCORDING TO ASTM F2329 OR ASTM B695 CLASS 55.

ALL WOOD SHALL CONFORM TO STANDARD SPEC 507.2 (UNLESS OTHERWISE NOTED IN DETAIL OR SPECIAL PROVISION) AND BE UNIFORMLY SEALED WITH CLEAR SEALER MAINTAINING NATURAL RED CEDAR COLOR AS APPROVED BY THE OWNER AND ENGINEER.

BENCH MARKS				
NO.	STATION	ELEV.	DESCRIPTION	
200	6+03, 115.3' RT	786.76	LIGHT POLE BASE NORTHEAST BOLT	
201	5+78, 63.7' RT	782.36	CHISELED CROSS, NORTHWEST CONC BASE	

CONTROL POINTS 				
NO.	STATION, OFFSET	DESCRIPTION	Y	X
1	6+63.22, 158.57' RT	3/4" IRON ROD W/ CAP	330,593.30	495,065.72
2	6+46.25, 138.32' LT	3/4" IRON ROD W/ CAP	330,890.50	495,059.32
3	5+77.11, 97.22' RT	3/4" IRON ROD W/ CAP	330,708.86	494,909.82

FILE NAME : G:\00\00093\00093870\CADD\SHEETSP\PLAN\021701-CM.DWG  
LAYOUT NAME - 021701-cm

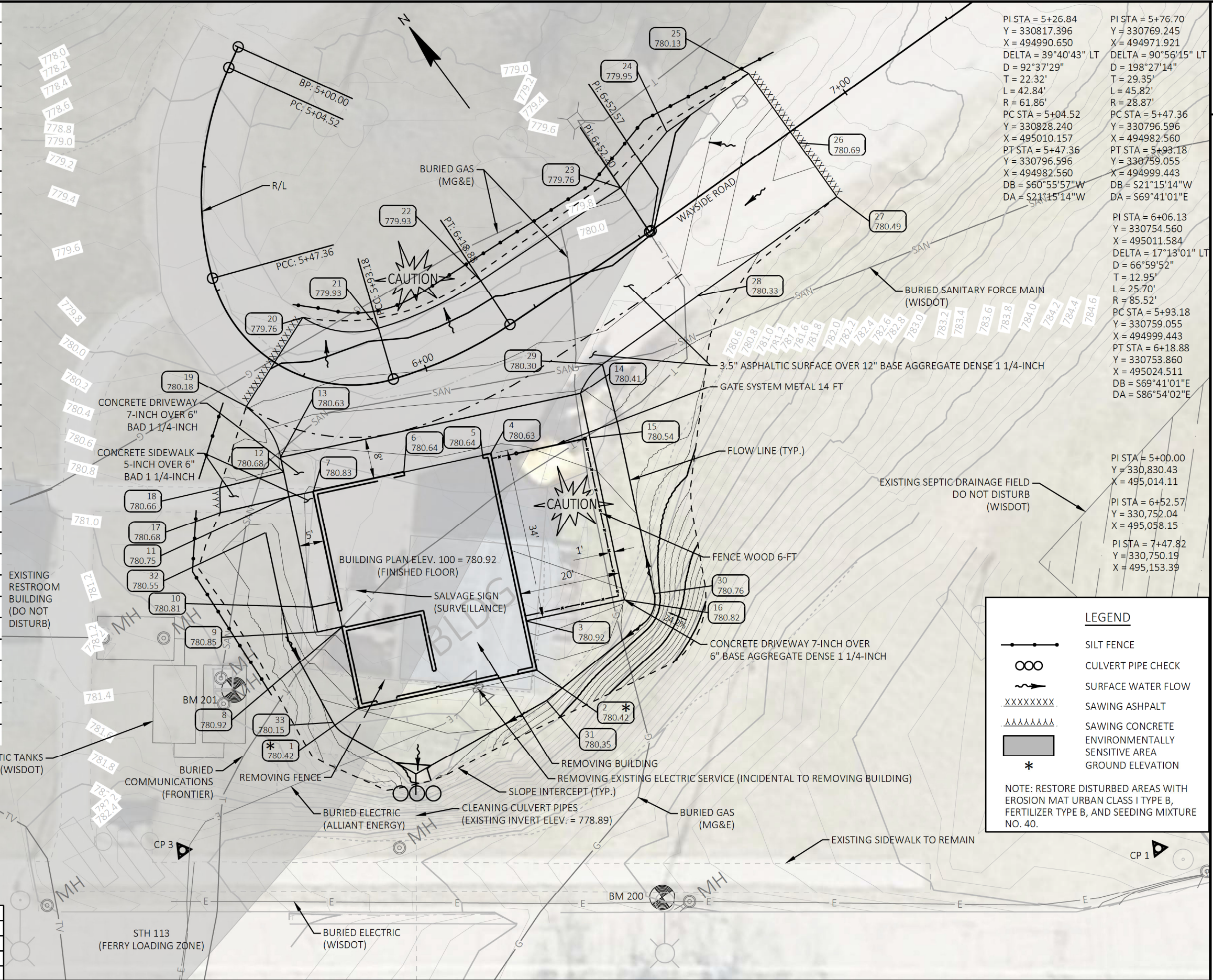
PLOT DATE : 2/14/2025 6:51 AM

PLOT BY : CONNOR GIRTEN

PLOT NAME :

PLOT SCALE : 1 IN=20 FT

WISDOT/CADDS SHEET 42



INDEX:

GENERAL

- T101 TITLE SHEET
- T102 INDEX

CIVIL

- C101 GENERAL NOTES
- C102 CONSTRUCTION DETAILS
- C103 CONTOUR MAP - SITE PLAN

STRUCTURAL

- S100 STRUCTURAL SCHEDULES
- S101 FOUNDATION PLAN
- S201 FRAMING PLANS
- S501 STRUCTURAL DETAILS

ARCHITECTURAL

- A101 FLOOR PLAN
- A201 EXTERIOR ELEVATIONS
- A301 BUILDING SECTIONS
- A401 WALL SECTIONS
- A501 ARCHITECTURAL DETAILS
- A502 ARCHITECTURAL DETAILS
- A503 ARCHITECTURAL DETAILS
- A601 SCHEDULES





HVAC

- H101 HVAC FLOOR PLAN

ELECTRICAL

- E010 ELECTRICAL SYMBOLS AND ABBREVIATIONS
- E101L FLOOR PLANS - LIGHTING
- E101P FLOOR PLANS - POWER
- E200 ONE-LINE DIAGRAM AND PANEL SCHEDULE
- E201 ELECTRICAL DETAILS

REVISION 01- DATE 02/19/2025

	
STRUCTURAL	ARCHITECTURAL
	
HVAC	ELECTRICAL

## DESIGN LOADS AND CRITERIA

BUILDING CODE...[WISCONSIN COMMERCIAL BUILDING CODE, REFERS TO IBC 2015]  
BUILDING RISK CATEGORY.....II

## WIND LOADS\*

BASIC WIND SPEED.....	115 MPH
WIND EXPOSURE.....	C
PER ASCE 7-10, SIMPLIFIED DESIGN PROCEDURE	
<b>MAIN WIND FORCE RESISTING SYSTEM</b>	
WALLS (LATERAL) ZONE A.....	+38.4 PSF
WALLS (LATERAL) ZONE C.....	+25.7 PSF
ROOF (LATERAL) ZONE B/D.....	-10.2 PSF
ROOF (UPLIFT) ZONE E.....	-33.4 PSF
ROOF (UPLIFT) ZONE F.....	-23.2 PSF
OVERHANG MAX.....	-46.7 PSF
<b>COMPONENTS AND CLADDING (C&amp;C)</b>	
ASSUMED EFFECTIVE WIND AREA.....	10 SF
ROOF C&C, VERTICAL PRESSURES:	
TYPICAL POS. PRESSURE.....	+18.1 PSF
INT ZONE 1 NEG. PRESSURE.....	-28.9 PSF
EDGE ZONE 2 NEG. PRESSURE.....	-50.2 PSF
CORNER ZONE 3 NEG. PRESSURE.....	-74.1 PSF
WALL C&C HORIZONTAL PRESSURES:	
POS. PRESSURE.....	+31.5 PSF
NEG. PRESSURE.....	-42.2 PSF
OVERHANG MAX.....	-98.7 PSF

\* PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE SURFACES, RESPECTIVELY.

## ADDITIONAL LOADS

DEAD LOAD, TOTAL.....	20 PSF
TOP CHORD.....	10 PSF
BOTTOM CHORD.....	10 PSF
TRUSS DEFLECTION.....	MAX L/360

## SEISMIC DESIGN DATA

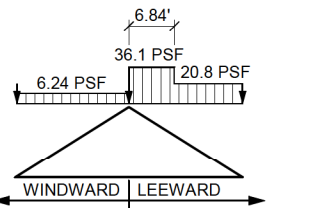
SEISMIC IMPORTANCE FACTOR, Ie.....	1.0
SEISMIC DESIGN CATEGORY.....	B
SEISMIC SITE CLASS.....	D [PRESUMED]
ANALYSIS PROCEDURE.....	EQUIVALENT LATERAL FORCE
<b>MAPPED SPECTRAL RESPONSE ACCELERATIONS</b>	
Ss.....	0.0673
S1.....	0.0453
<b>SPECTRAL RESPONSE COEFFICIENTS</b>	
Sds.....	0.072
Sd1.....	0.072
<b>SEISMIC FORCE-RESISTING SYSTEM</b>	
LIGHT-FRAME (WOOD) WALLS SHEATHED w/ WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE	
SEISMIC RESPONSE COEFFICIENT, Cs.....	0.0111
RESPONSE MODIFICATION FACTOR, R.....	6.5

## LIVE LOADS

ROOF LIVE LOAD (MINIMUM).....	20 PSF
GROUND LEVEL FLOOR LIVE LOAD.....	250 PSF
MEZZANINE LIVE LOAD.....	60 PSF
MEZZANINE STAIRS LIVE LOAD.....	100 PSF
<b>GUARDRAIL/HANDRAIL/GATE SYSTEMS (NON-CONCURRENT)</b>	
DISTRIBUTED.....	50 PLF
CONCENTRATED.....	200 LBS

## SNOW LOADS

GROUND SNOW LOAD, Pg.....	30 PSF
FLAT-ROOF SNOW LOAD, Pf.....	20.8 PSF
SNOW EXPOSURE FACTOR, Ce.....	0.90
SNOW IMPORTANCE FACTOR, Is.....	1.00
THERMAL FACTOR, Ct.....	1.10
ROOF SLOPE FACTOR, Cs.....	1.00
SLOPED ROOF SNOW LOAD, Ps.....	20.8 PSF
DESIGN SNOW LOAD.....	20.8 PSF
UNBALANCED ROOF SNOW LOADS.....	REFER TO DIAGRAM



NOTE:  
LOADS CAN OCCUR ON  
EITHER SIDE OF TRUSS

## DESIGN STRESSES

## CAST-IN-PLACE CONCRETE

FOOTINGS.....	f <sub>c</sub> = 4000 PSI
WALLS.....	f <sub>c</sub> = 4000 PSI
SLAB-ON-GRADE.....	f <sub>c</sub> = 4000 PSI
OTHER.....	f <sub>c</sub> = 3500 PSI

## ANCHORS

ANCHOR BOLTS.....	F1554, GRADE 36
EXPANSION ANCHORS.....	WEDGE TYPE

## GEOTECHNICAL INFORMATION

MAX NET ALLOWABLE SOIL BEARING PRESSURE (PRESUMED).....	q = 1500 PSF
---	--------------

## LUMBER

2x4, 2x6, 2x8, 2x10 - SPF No. 2 AND BETTER.....	F <sub>b</sub> = 875 PSI
	E = 1.4 x 10 <sup>6</sup> PSI
EXTERIOR USE - SYP No. 2 OR BETTER	

## STRUCTURAL WOOD SHEATHING

ROOF SHEATHING: APA-RATED SHEATHING, EXP 1, 19/32", 40/20  
SPAN RATING, 8d COMMON NAILS AT 6" OC AT PANELEDGES, 12" OC AT INTERMEDIATE SUPPORTS, UNBLOCKED AT PANEL EDGES.

WALL SHEATHING: APA-RATED SHEATHING, EXP 1, 15/32", 32/16  
SPAN RATING, 8d COMMON NAILS AT 6" OC AT PANEL EDGES, 12" OC AT INTERMEDIATE SUPPORTS, BLOCKED AT PANEL EDGES.

FLOOR SHEATHING: APA-RATED SHEATHING, EXP 1, 23/32", 48/24 SPAN  
RATING, PANEL FASTENING SHALL BE GLUE-NAILED PER SPECIFICATION  
SECTION 06 10 00

## STRUCTURAL COMPOSITE LUMBER

LAMINATED VENEER LUMBER (LVL).....	F <sub>b</sub> = 2600 PSI
	E = 2.0 x 10 <sup>6</sup> PSI
	F <sub>v</sub> = 285 PSI
	F <sub>t</sub> = 1555 PSI
	F <sub>c</sub> (PAR) = 2510 PSI
	F <sub>c</sub> (PERP) = 750 PSI

## HEADER SCHEDULE

MARK	SYMBOL	DESCRIPTION
H1		(3) 2x8s NAILED TOGETHER
H2		(3)1.75x9.25 LVL NAILED TOGETHER w/ 3" BEARING AT EACH END
H3		(4) 2x6s NAILED TOGETHER

## GENERAL NOTES

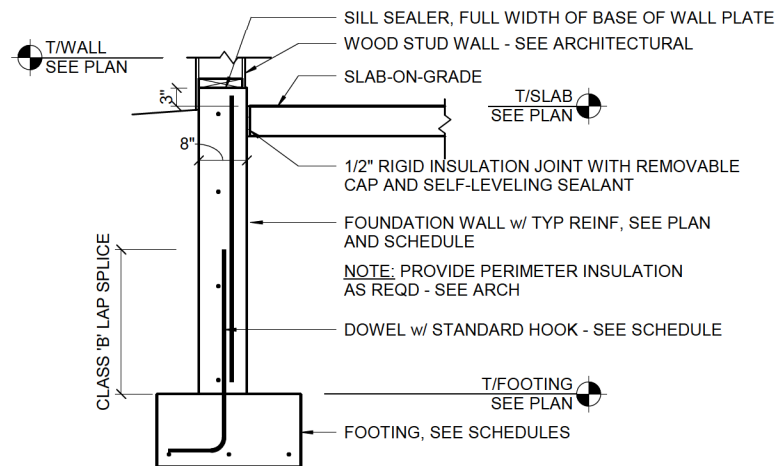
- ALL HEADERS AT OPENINGS SHALL HAVE A MINIMUM OF 1 1/2" BEARING AT EACH END UNLESS NOTED OTHERWISE
- HEADER MATERIAL: SEE DESIGN STRESSES ON SHEET S100
- ALL BUILT-UP HEADERS SHALL INCLUDE (1) TOP AND (1) BOTTOM 2x (STUD WIDTH) PLATE AS PART OF THE HEADER AND TO RUN FULL LENGTH OF HEADER
- USE (H1) HEADER AT ALL MISC EXTERIOR WOOD FRAMING OPENINGS UNDER 36" IN LENGTH
- UNLESS NOTED OTHERWISE, PROVIDE (1) FULL HEIGHT KING STUD EACH SIDE OF OPENINGS 4 FT OR LESS. UNLESS NOTED OTHERWISE, PROVIDE (2) FULL HEIGHT KING STUDS EACH SIDE OF OPENINGS GREATER THAN 4 FT.
- BUILT-UP BEAMS AND HEADERS FASTENER PATTERN: TWO HORIZ ROWS OF 16d NAILS AT 12" OC, EACH SIDE OF MEMBER. STAGGER PATTERN ON EACH SIDE TO AVOID NAILING CONFLICTS.

## FOOTING SCHEDULE

MARK	SIZE		BOTTOM QUANT	DOWEL				DETAIL	REMARKS
	'W'	'H'		SIZE	'L'	HOOK	SPACING		
F1	20"	8"	(2) EW	#5	18"	--	24" OC	1/S501	--
F2	24"	12"	(3) EW	#5	41"	10"	12" OC	1/S100	--

## FOUNDATION WALL SCHEDULE

MARK	WIDTH	REINFORCING				DETAIL	REMARKS
		HORIZONTAL		VERTICAL			
		SIZE	SPACING	SIZE	SPACING		
W1	8"	#5	@ 18" OC	#5	@ 18" OC	1/S501	--
W2	8"	#5	@ 12" OC	#5	@ 12" OC	1/S100	--

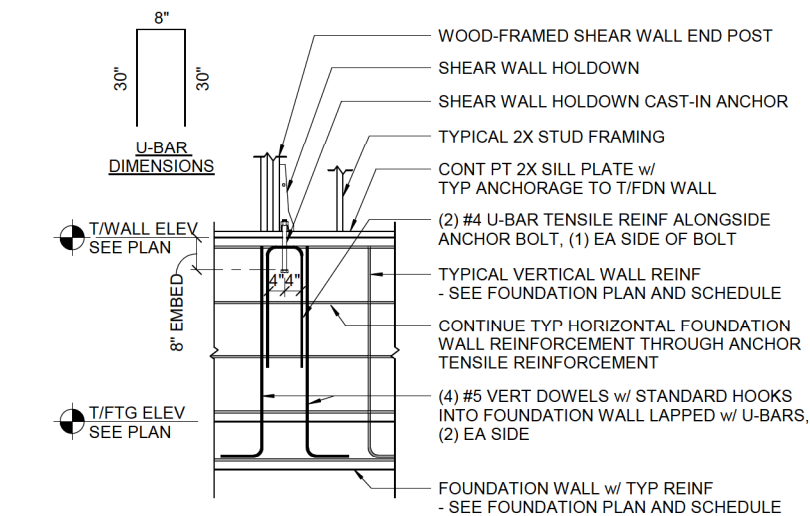


## 1 FOUNDATION WALL DETAIL

S100	3/4" = 1'-0" (22" x 34")	0	6"	1'	2'	3'
	3/8" = 1'-0" (11" x 17")					

## 2 GABLE WALL BRACE DETAIL (AT ROOF)

S100	1 1/2" = 1'-0" (22X34)	0	3"	6"	12"	18"
	3/4" = 1'-0" (11X17)					



## 3 FOUNDATION WALL DETAIL AT HOLDOWN

S100	1/2" = 1'-0" (22X34)	0	1	2	4
	1/4" = 1'-0" (11X17)				

GENERAL FOUNDATION NOTES

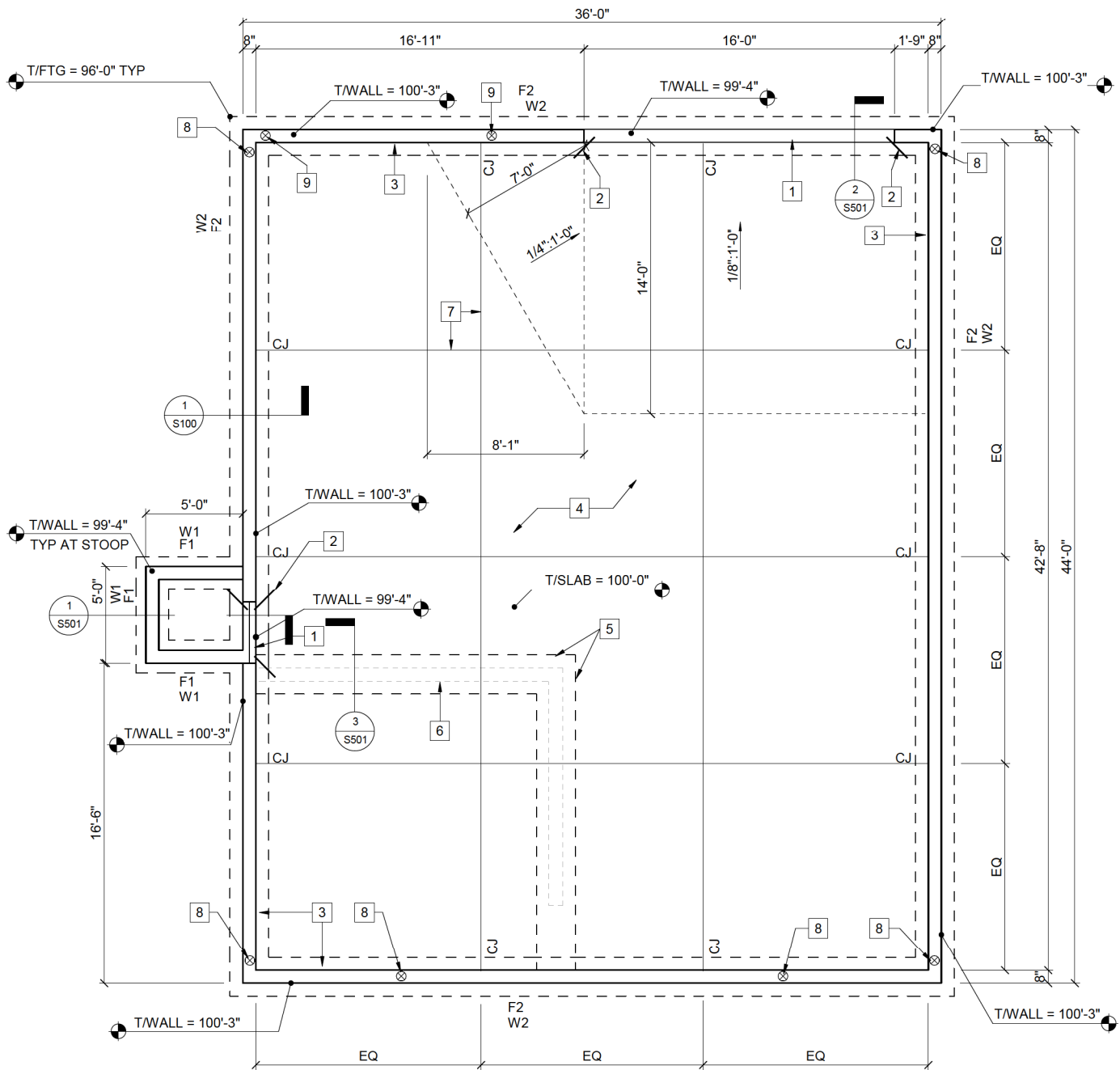
- A. SEE SHEETS S100 FOR DESIGN LOADINGS, DESIGN STRESSES, AND SCHEDULES.
- B. CONTRACTOR TO COORDINATE STRUCTURAL, ARCHITECTURAL, SITE/CIVIL, HVAC, ELECTRICAL, AND PLUMBING PLANS FOR DETAILS, DIMENSIONS, ELEVATIONS, OPENINGS, INSERTS, ETC. . NOTIFY ARCHITECT OF ANY VARIANCE BEFORE COMMENCING CONSTRUCTION. OBTAIN ASSOCIATED DRAWINGS OF ALL DISCIPLINES PRIOR TO STARTING WORK.
- C. IN NO CASE SHALL STRUCTURAL ALTERATIONS OR WORK AFFECTING A STRUCTURAL MEMBER BE MADE, UNLESS APPROVED BY ENGINEER.
- D. SIMILAR PORTIONS OF THE BUILDING SHALL HAVE SIMILAR DETAILING, UNLESS NOTED OTHERWISE.
- E. FOOTINGS SHALL BE CENTERED ABOUT THE WALLS, UNLESS NOTED OTHERWISE.
- F. SEE DETAIL 4/S501 FOR REINFORCEMENT IN FOUNDATION WALL AT CORNERS. BARS SHALL BE SAME SIZE AND LOCATION OF THE HORIZONTAL REINFORCING.
- G. ALL WALL FORM TIES SHALL BE KNOCKED OFF FLUSH WITH THE FACE OF THE WALL AT INTERIOR AND EXTERIOR FACE OF WALLS. AT TIES BELOW THE FINISHED FLOOR AND/OR FINISHED GRADE PROVIDE A LAYER OF DAMPROOFING PRODUCT OVER THE REMOVED TIE AREA, TYP
- H. FLOOR SLABS SHALL BE SLOPED TO DRAIN TO FLOOR DRAINS AT 1:50, UNLESS NOTED OTHERWISE
- I. IF FOUNDATION WALL INSTALLATION IS MORE THAN A SINGLE POUR, A CONSTRUCTION JOINT SHALL BE PROVIDED
- J. REFER TO SITE/CIVIL FOR EXTERIOR SLAB ELEVATIONS AND SLOPES.
- K. SEE ARCHITECTURAL PLANS FOR RIGID INSULATION REQUIREMENTS AT THE BUILDING FOUNDATION PERIMETER.
- L. SEE ARCHITECTURAL PLANS FOR ADDITIONAL DIMENSIONS.
- M. BACKFILL AND COMPACT w/ ENGINEERED FILL ON BOTH SIDES OF FOUNDATION WALL AT THE SAME TIME.

KEY NOTES #

- 1 HOLD TOP OF FOUNDATION WALL DOWN AT DOOR OPENINGS, TYP - SEE DETAILS 1/S501 AND 2/S501
- 2 PROVIDE #5 BARS x 18" LONG IN INTERIOR AND EXTERIOR SLAB AT DOOR OPENINGS, TYP
- 3 1/2" RIGID INSULATION JOINT w/ REMOVABLE CAP AND SELF-LEVELING SEALANT AT PERIMETER SLAB-FOUNDATION WALL JOINTS, TYP
- 4 5" CONCRETE SLAB w/ FIBERMESH REINFORCEMENT OVER VAPOR BARRIER, OVER 8" MIN COMPACTED GRAVEL FILL, OVER COMPACTED GRANULAR FILL - SEE DETAIL 5/S501
- 5 12" THICK x 24" WIDE SLAB ON GRADE BELOW MEZZANINE WOOD BEARING WALL - SEE DETAIL 3/S501
- 6 DASHED LINE INDICATES MEZZANINE WOOD STUD BEARING WALL ABOVE
- 7 SLAB CONTROL/CONSTRUCTION JOINT , TYP - SEE 5/S501
- 8 SHEAR WALL HOLDOWN LOCATION, TYP. PROVIDE SIMPSON HDU5-SDS2.5 w/ MIN DOUBLE STUD (3" THICK) END MEMBER. HOLDOWN FASTENERS PER MANUFACTURER'S REQUIREMENTS. LOCATE AS INDICATED ON PLAN TO ALIGN WITH ENDS OF WALLS OR WALL OPENINGS. PROVIDE 5/8" DIA CAST-IN ANCHORS w/ 8" EMBED INTO TOP OF FOUNDATION WALL
- 9 SHEAR WALL HOLDOWN LOCATION: SIMPSON STRONG-TIE HDU8-SDS2.5 HOLDOWN w/ CAST-IN 7/8" DIA F1554 GRADE 36 ANCHOR ROD, 8" EMBED. ANCHOR TO BE CENTERED IN 2x8 BOTTOM PLATE. ATTACH HOLDOWN TO FULL-HEIGHT BUILT-UP TRIPLE STUD (4 1/2" THICK) END MEMBER. HOLDOWN FASTENERS PER MANUFACTURER'S REQUIREMENTS. LOCATE AS INDICATED ON PLAN TO ALIGN w/ ENDS OF WALLS OR WALL OPENINGS, TYP. - SEE DETAIL 3/S100 FOR ADDITIONAL FOUNDATION WALL TENSILE REINFORCEMENT AT HOLDOWN ANCHOR.

FOUNDATION LEGEND

- TOP OF WALL ELEVATION, T/WALL = ELEV
- TOP OF FOOTING ELEVATION, T/FTG = ELEV
- CONCRETE WALL
- CONCRETE FOOTING
- WALL MARK
- FOOTING MARK



FOUNDATION PLAN

1/4" = 1'-0" (22" x 34")  
1/8" = 1'-0" (11" x 17")

PROJECT NO: 5640-01-87

HWY: STH 113

COUNTY: COLUMBIA

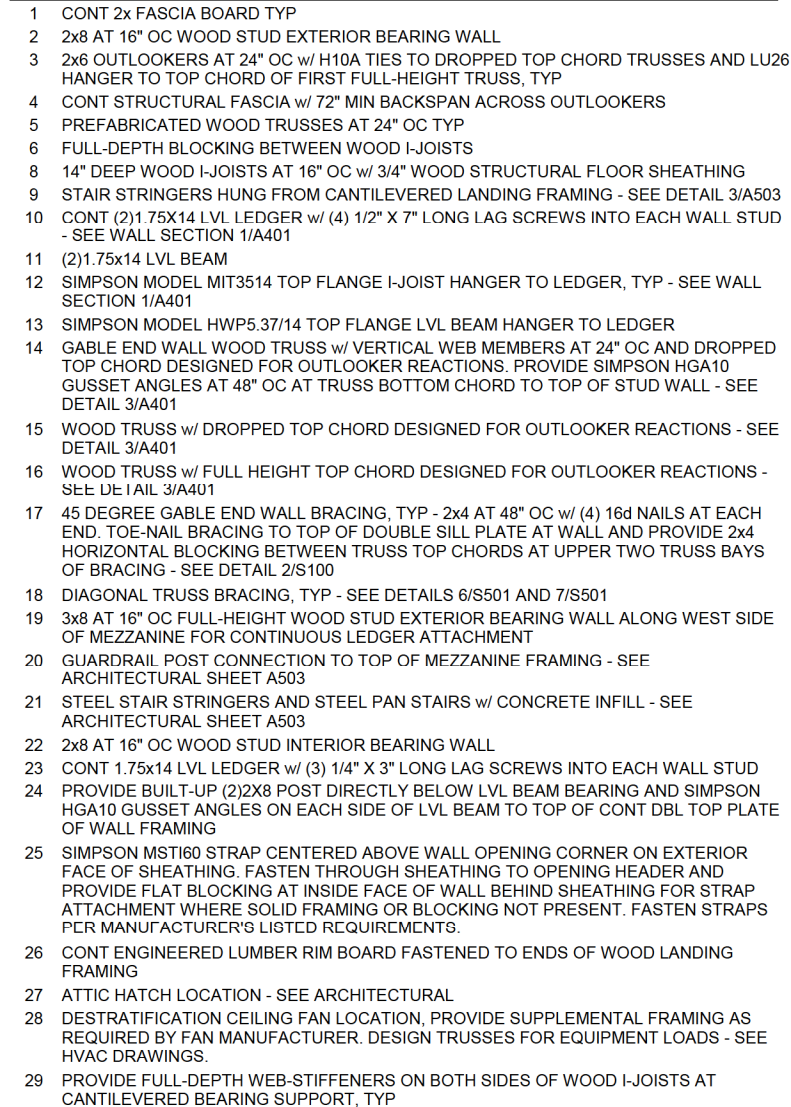
FOUNDATION PLAN

S101

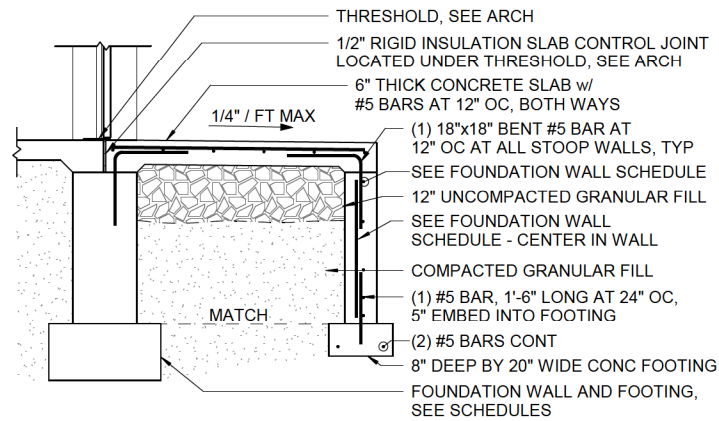
SHEET

E

- A. SEE SHEETS S100 FOR DESIGN LOADINGS, DESIGN STRESSES, AND SCHEDULES.
- B. PROVIDE ONE SIMPSON MODEL H10A AT EACH WOOD ROOF TRUSS SUPPORT LOCATION.
- C. ALL WOOD ROOF TRUSSES SHALL BE BRACED WITH PERMANENT DIAGONAL BRACES PER DETAILS 6/S501 AND 7/S501.
- D. PROVIDE 2x4 STUD VERTICAL REINFORCEMENT AT 48" OC BEHIND GABLE END TRUSS VERTICAL WEB MEMBERS. STUDS SHALL BE ORIENTED PERPENDICULAR TO GABLE END TRUSS WEB MEMEBERS AND SPAN FROM WALL TOP PLATES TO UNDERSIDE OF ROOF SHEATHING.
- E. WOOD I-JOISTS SHALL MEET APA PERFORMANCE RATING OF JOIST SERIES DESIGNATION PRI-70 (14" DEPTH w/ 2 5/16" TOP AND BOTTOM FLANGES).
- F. PROVIDE FULL-DEPTH WEB-STIFFENERS FLUSH TO FLANGES ON BOTH SIDES OF WOOD I-JOISTS AT ALL BEARING AND HANGER LOCATIONS. JOISTS SHALL BEAR MINIMUM 4" ON STUD WALL CONSTRUCTION AND FASTENED TO WALL w/ MINIMUM (1) 8d NAIL EACH SIDE OF WEB THROUGH JOIST FLANGES.
- G. PROVIDE FULL-DEPTH BLOCKING BETWEEN EACH WOOD I-JOIST AT 8'-0" MAX (MINIMUM ONE SET OF BLOCKING PER SPAN).
- H. PROVIDE 2x BLOCKING AT ALL WOOD SHEATHING PANEL JOINTS AT EXTERIOR WOOD STUD WALLS.
- I. BUILT-UP WOOD COLUMN/JAMB FASTENER PATTERN (EACH FACE):
  - TWO VERTICAL ROWS OF 30d COMMON WIRE NAILS SPACED AT 8" OC VERTICALLY, MAX
  - ROWS SPACED 2 1/2" APART AND NOT CLOSER THAN 1 1/2" FROM EDGES
  - FIRST AND LAST NAILS OF EACH ROW 3 1/2" FROM ENDS
  - STAGGER PATTERN ON EACH FACE TO AVOID NAILING CONFLICTS
- J. PROVIDE FASTENERS PER MANUFACTURER'S GUIDELINES FOR ALL CONNECTION HARDWARE.
- K. THE LATERAL FORCE RESISTING SYSTEM OF THE BUILDING CONSISTS OF EXTERIOR WOOD STRUCTURAL PANEL WOOD-FRAMED SHEAR WALLS.
- L. DETAILS, SECTIONS, AND NOTES ON THE DRAWINGS ARE INTENDED TO BE TYPICAL WHERE CONDITIONS ARE SIMILAR TO THOSE INDICATED BY DETAIL OR DETAIL TITLE OR NOTE.



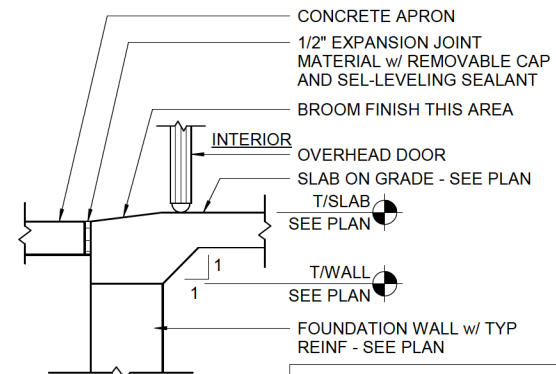
1/4" = 1'-0" (22" x 34") 0 2 4 8  
1/8" = 1'-0" (11" x 17")

**NOTES:**

1. STOOP IS A STRUCTURAL SLAB; THEREFORE, REINFORCEMENT AND SLAB THICKNESS ARE CRITICAL.
2. SEE ARCH FOR THRESHOLD DETAILING.

**1 STOOP DETAIL**

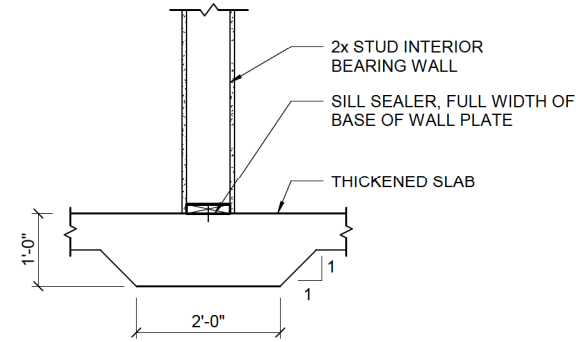
S501 1/2" = 1'-0" (22" x 34")  
1/4" = 1'-0" (11" x 17")



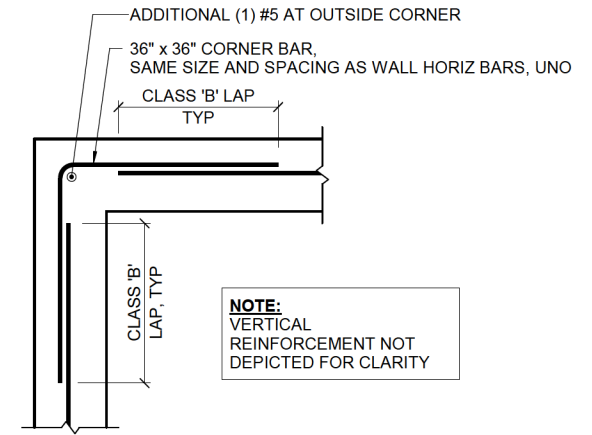
NOTE: PROVIDE PERIMETER INSULATION AS REQD - SEE ARCH

**2 OVERHEAD DOOR SILL DETAIL**

S501 3/4" = 1'-0" (22" x 34")  
3/8" = 1'-0" (11" x 17")

**3 INTERIOR WALL THICKENED SLAB**

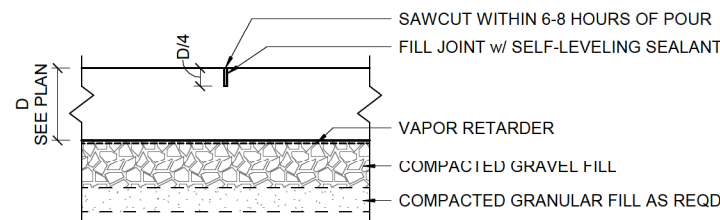
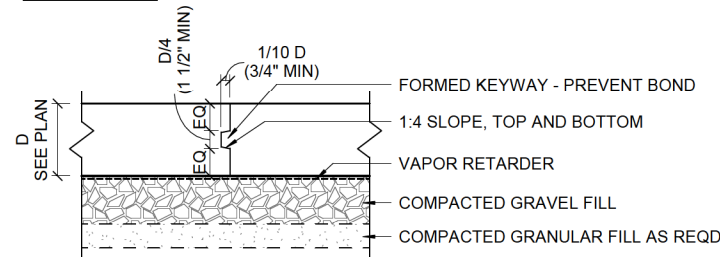
S501 3/4" = 1'-0" (22" x 34")  
3/8" = 1'-0" (11" x 17")



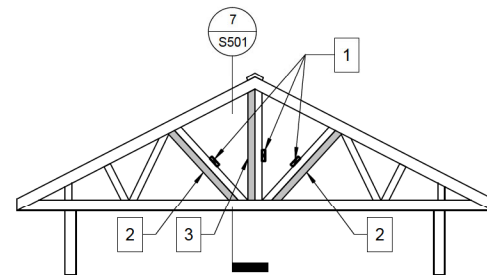
NOTE: VERTICAL REINFORCEMENT NOT DEPICTED FOR CLARITY

**4 TYPICAL CORNER REINFORCING DETAIL**

S501 3/4" = 1'-0" (22" x 34")  
3/8" = 1'-0" (11" x 17")

**CONTROL JOINT****CONSTRUCTION JOINT****5 TYPICAL SLAB ON GRADE JOINT CJ DETAIL**

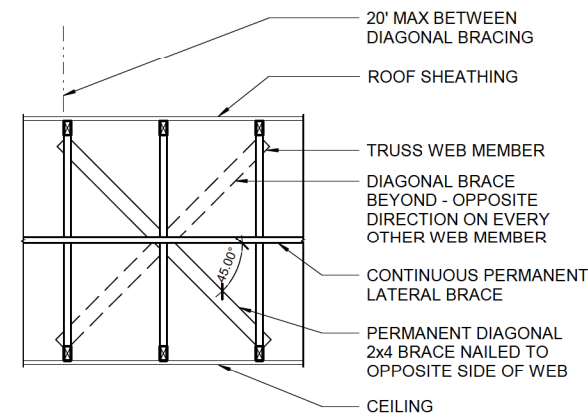
S501 1 1/2" = 1'-0" (22" x 34")  
3/4" = 1'-0" (11" x 17")

**KEY NOTES:**

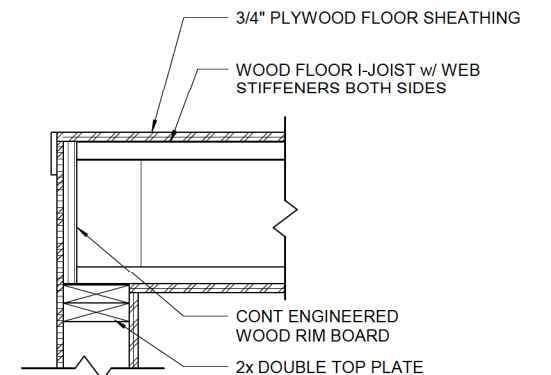
1. CONTINUOUS LATERAL HORIZ WEB BRACING WHERE REQD BY TRUSS MANUFACTURER FOR TRUSS DESIGN. 2x BRACE SIZE AND LOCATIONS TO BE DETERMINED BY TRUSS DESIGNER.
2. PROVIDE A MINIMUM OF TWO SETS OF (2) 2x4 DIAGONAL TRUSS BRACES FOR ROOF SYSTEMS. DIAGONAL BRACING MEMBERS SHALL BE INSTALLED AT A 45-DEGREE ANGLE TO THE PLANE OF VERTICAL TRUSSES. ENDS SHALL BE ATTACHED DIRECTLY BELOW A TOP CHORD TRUSS MEMBER AND ABOVE A BOTTOM CHORD MEMBER USING (2) 16d NAILS AT EVERY TRUSS MEMBER CROSSED. SETS OF DIAGONAL TRUSS BRACING SHALL BE:
  - PLACED ON WEB MEMBERS ADJACENT TO THE RIDGE LINE
  - SPACED ALONG THE LENGTH OF THE BUILDING A MAXIMUM OF 20 FT
  - ATTACHED TO THE WEB MEMBER FACE OPPOSITE ANY HORIZ LATERAL BRACING REQUIRED BY TRUSS MANUFACTURER.
3. PROVIDE SIM DIAGONAL BRACE AT VERTICAL MEMBER WHERE OCCURS

**6 PERMANENT WOOD TRUSS BRACING**

S501 1/4" = 1'-0" (22" x 34")  
1/8" = 1'-0" (11" x 17")

**7 PERMANENT WOOD TRUSS DIAGONAL BRACE**

S501 1/4" = 1'-0" (22" x 34")  
1/8" = 1'-0" (11" x 17")



NOTE: SEE 8/A503 FOR DETAILING AT GUARDRAIL POST

**8 MEZZ FLOOR JOIST BEARING AT WALL FRAMING**

S501 1 1/2" = 1'-0" (22" x 34")  
3/4" = 1'-0" (11" x 17")

**GENERAL NOTES**

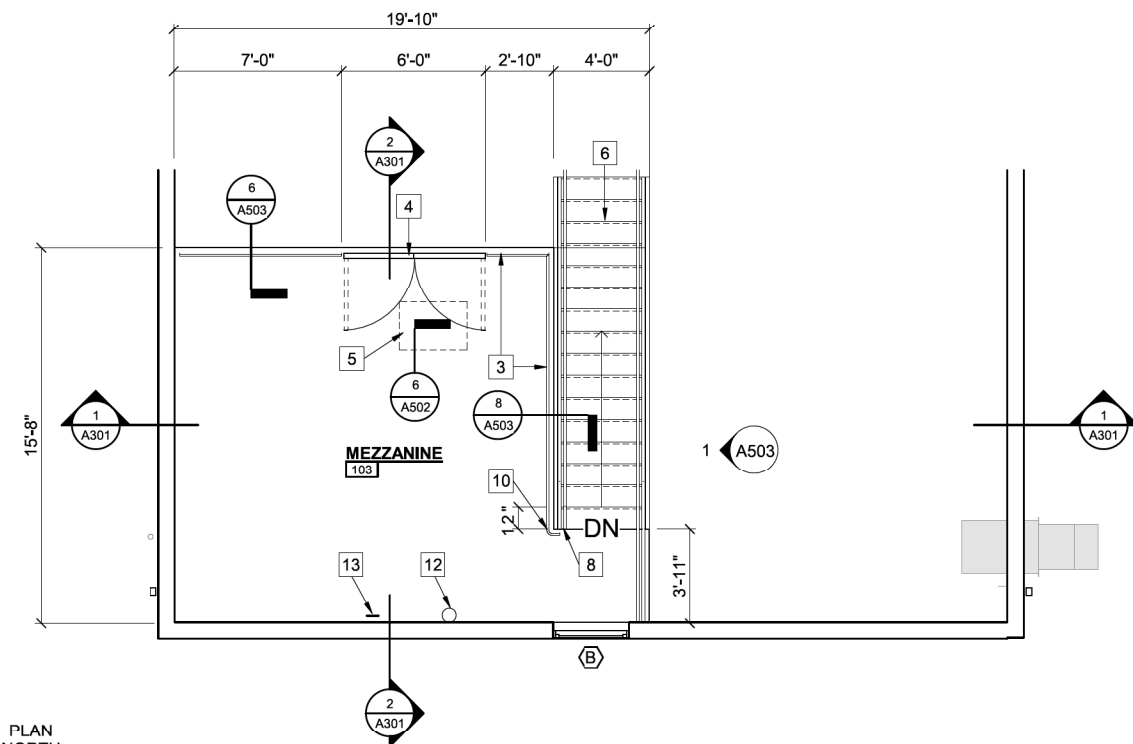
- A. ALL DIMENSIONING IS TO FACE OF STUD, FRAMING OR CONCRETE.
- B. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION.
- C. THE CONTRACT DOCUMENTS CONSIST OF THE SPECIFICATION MANUAL AND DRAWINGS WHICH ARE INTENDED TO BE COMPLEMENTARY AND TO BE USED IN CONJUNCTION WITH ONE ANOTHER.
- D. IF DISCREPANCIES OCCUR BETWEEN THE SPECIFICATION MANUAL AND THE DRAWINGS, NOTIFY THE ARCHITECT FOR A RESOLUTION.
- E. SLOPE FLOOR SLABS TO FLOOR DRAINS. SEE FOUNDATION PLAN AND COORDINATE WITH PLUMBING DRAWINGS. (MAX FLOOR SLOPE 1/4" PER FT).
- F. BUILDING MANUFACTURER/SUPPLIER TO PROVIDE STRUCTURAL MEMBERS FOR SUPPORTING ROOF HUNG HVAC EQUIPMENT AND LIGHTING.
- G. CONTRACTOR TO COORDINATE STRUCTURAL, ARCHITECTURAL, HVAC, AND PLUMBING PLANS FOR DETAILS, DIMENSIONS, ELEVATIONS, OPENINGS, INSERTS, ETC. NOTIFY ARCHITECT OF ANY VARIANCE BEFORE COMMENCING CONSTRUCTION.
- H. IN NO CASE SHALL STRUCTURAL ALTERATIONS OR WORK AFFECTING A STRUCTURAL MEMBER BE MADE, UNLESS APPROVED BY THE ENGINEER.

**KEY NOTES#**

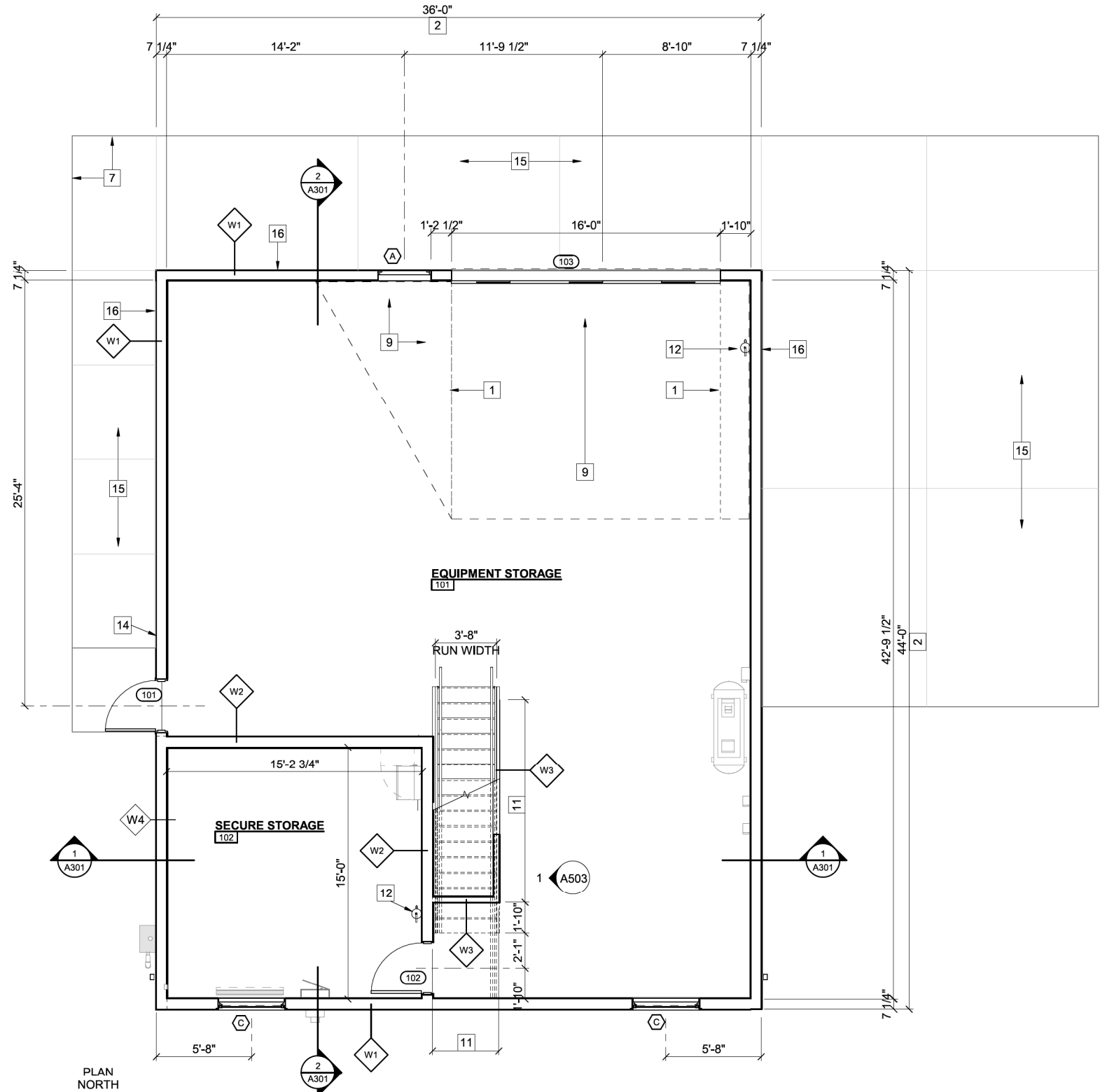
- 1 OVERHEAD DOOR TRACK
- 2 WOOD LIGHT FRAME CONSTRUCTION
- 3 FLOOR MOUNTED GUARDRAIL
- 4 SWING GATE
- 5 ATTIC ACCESS
- 6 PRE-FAB METAL STAIRS (3'-8" ACTUAL RUN WIDTH) AND HANDRAILS
- 7 EDGE OF SIDEWALK AND CONCRETE PAD
- 8 HANDRAIL EXTENSION RETURN TO POST - 12" EXTENSION FROM THE TOP RISER
- 9 SLOPED FLOOR - SEE STRUCTURAL
- 10 CONNECT MEZZANINE RAILING WITH THE STAIR RAILING, EASE CORNER AS SHOWN

**KEY NOTES#**

- 11 WOOD FRAMED INFILL WALL BELOW STAIRS
- 12 FIRE EXTINGUISHER
- 13 LOAD CAPACITY SIGN
- 14 RECESSED KNOX BOX - COORDINATE LOCATION WITH LOCAL FIRE DEPARTMENT
- 15 SIDEWALK CONTROL JOINT DETAIL - 9/A503
- 16 1/2" RIGID INSULATION JOINT W/ REMOVABLE CAP AND SELF-LEVELING SEALANT AT BUILDING PERIMETER

PLAN  
NORTH**MEZZANINE FLOOR PLAN**

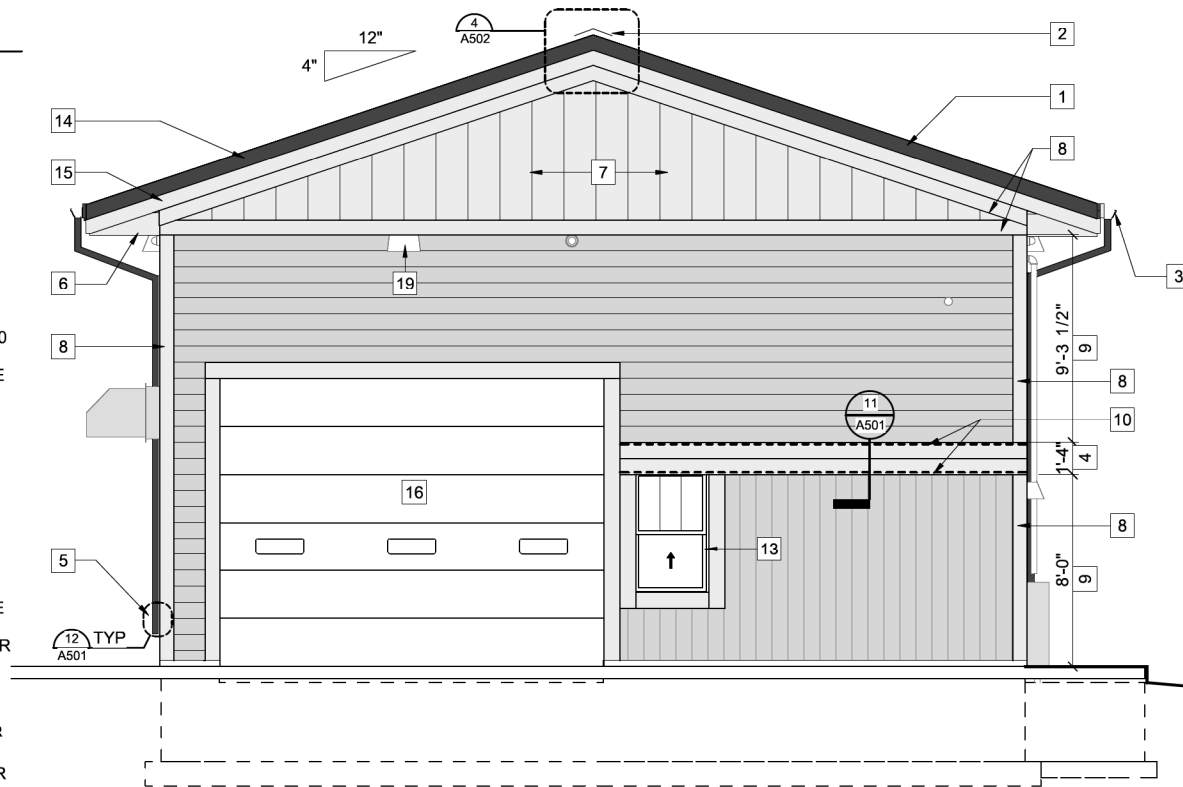
1/4" = 1'-0" (22"x34") 0 2 4 8  
1/8" = 1'-0" (11"x17")

PLAN  
NORTH**MAIN FLOOR PLAN**

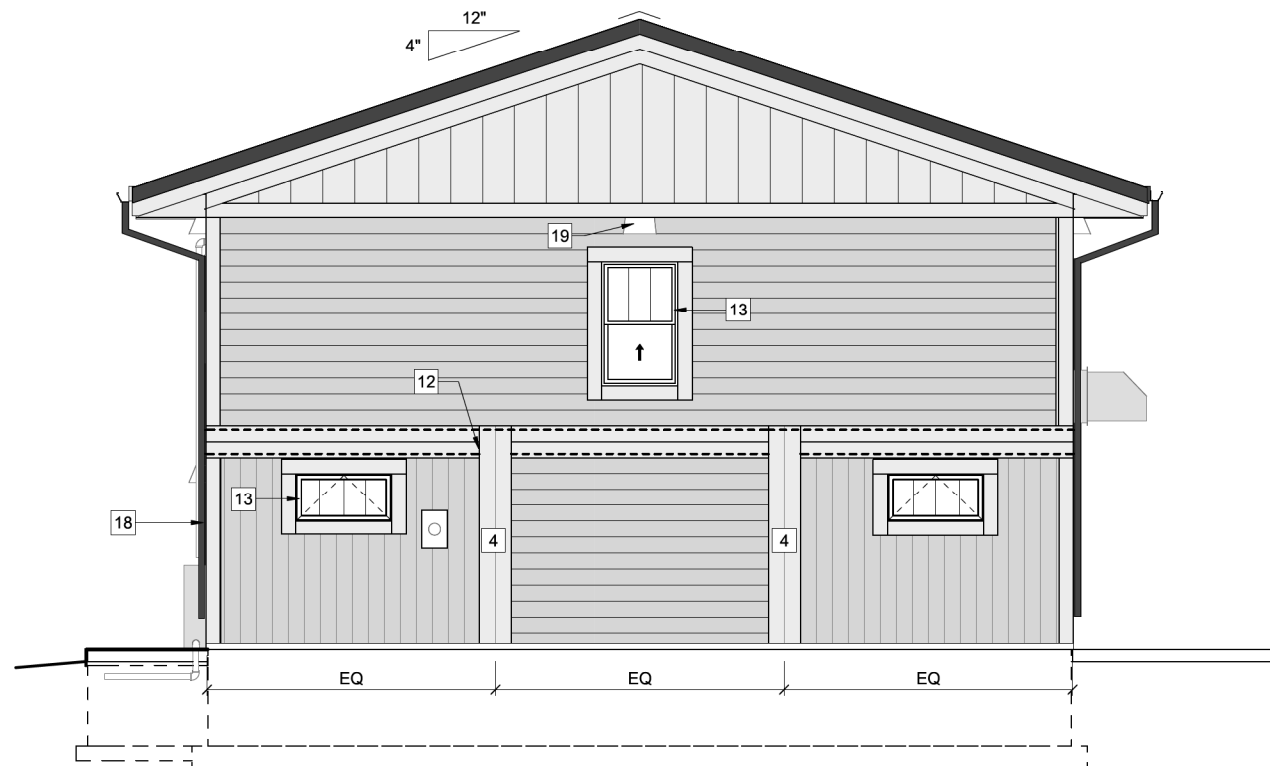
1/4" = 1'-0" (22"x34") 0 2 4 8  
1/8" = 1'-0" (11"x17")

**KEY NOTES #**

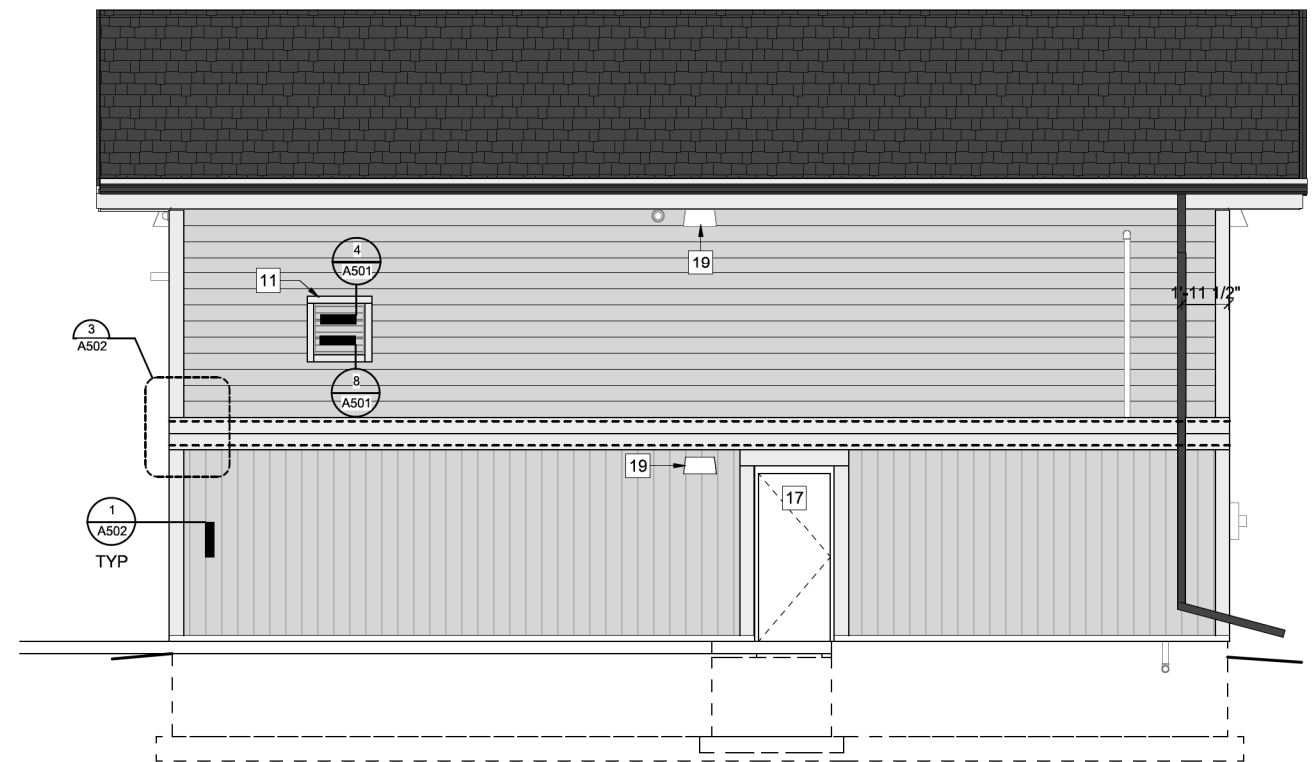
- 1 STONE COATED METAL SHINGLE ROOF(DECRA XD WOODLAND GREEN)
- 2 VENTED RIDGE SHINGLE(DECRA XD WOODLAND GREEN)
- 3 PRE-FINISHED GUTTER AND DOWNSPOUT(COLOR TO MATCH ROOF)
- 4 NICKLE GAP SIDING, ORIENTATION SEE DRAWINGS(LP SMARTSIDE EXPERT FINISH SAND DUNES)
- 5 PIPE PENETRATION, TYP
- 6 BUILT UP SOFFIT BOX W/ ROLLEX PREFINISHED METAL SOFFIT AND FASCIA (ROLLEX 745)
- 7 BOARD AND BATTEN, 3.5" LP SMARTSIDE 440 SERIES TRIM AT 16" OC ON LP SMARTSIDE VERTICAL SIDING 38 SERIES (LP SMARTSIDE EXPERT FINISH SAND DUNES)
- 8 7.21" LP SMARTSIDE 440 SERIES TRIM(LP SMARTSIDE EXPERT FINISH SAND DUNES)
- 9 NICKLE GAP SIDING, ORIENTATION SEE DRAWINGS(LP SMARTSIDE EXPERT FINISH TERRA BROWN)
- 10 DASH LINE INDICATES FLASHING BETWEEN SIDING TRANSITION, TYP
- 11 3.5" SMOOTH TRIM BOARD(LP SMARTSIDE EXPERT FINISH SAND DUNES)
- 12 WHERE HORIZONTAL AND VERTICAL NICKLE GAP SIDINGS BUTT, FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR SEALANT, BACKER ROD, AND SUFFICIENT WIDTH OF GAP
- 13 VINYL WINDOW (COLOR TO BE WHITE)
- 14 UPPER PREFINISHED METAL FASICA COVER (COLOR TO MATCH ROOF)
- 15 LOWER PREFINISHED METAL FASCIA COVER (ROLLEX 745)
- 16 OVERHEAD SECTIONAL DOOR(COLOR TO BE WHITE)
- 17 FRP SERVICE DOOR(COLOR TO BE WHITE)
- 18 EXTEND DOWNSPOUT 4 FT TOWARDS THE CULVERT AT SOUTH SIDE OF THE BUILDING
- 19 LIGHT FIXTURE w/ SUPPORT BLOCKING - SEE ELECTRICAL

**NORTH EXTERIOR BUILDING ELEVATION**

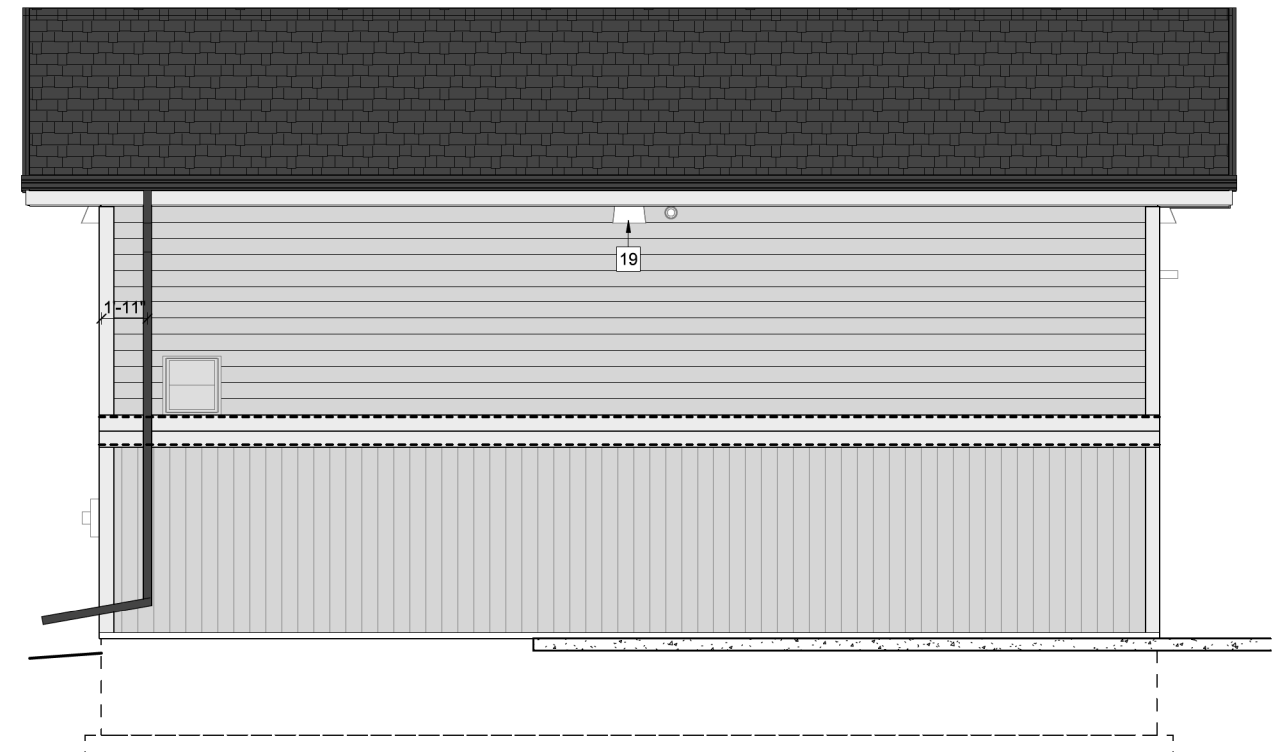
1/4" = 1'-0" (22"x34") 0 2 4 8  
1/8" = 1'-0" (11"x17")

**SOUTH EXTERIOR BUILDING ELEVATION**

1/4" = 1'-0" (22"x34") 0 2 4 8  
1/8" = 1'-0" (11"x17")

**WEST EXTERIOR BUILDING ELEVATION**

1/4" = 1'-0" (22"x34") 0 2 4 8  
1/8" = 1'-0" (11"x17")

**EAST EXTERIOR BUILDING ELEVATION**

1/4" = 1'-0" (22"x34") 0 2 4 8  
1/8" = 1'-0" (11"x17")

PROJECT NO: 5640-01-87

HWY: STH 113

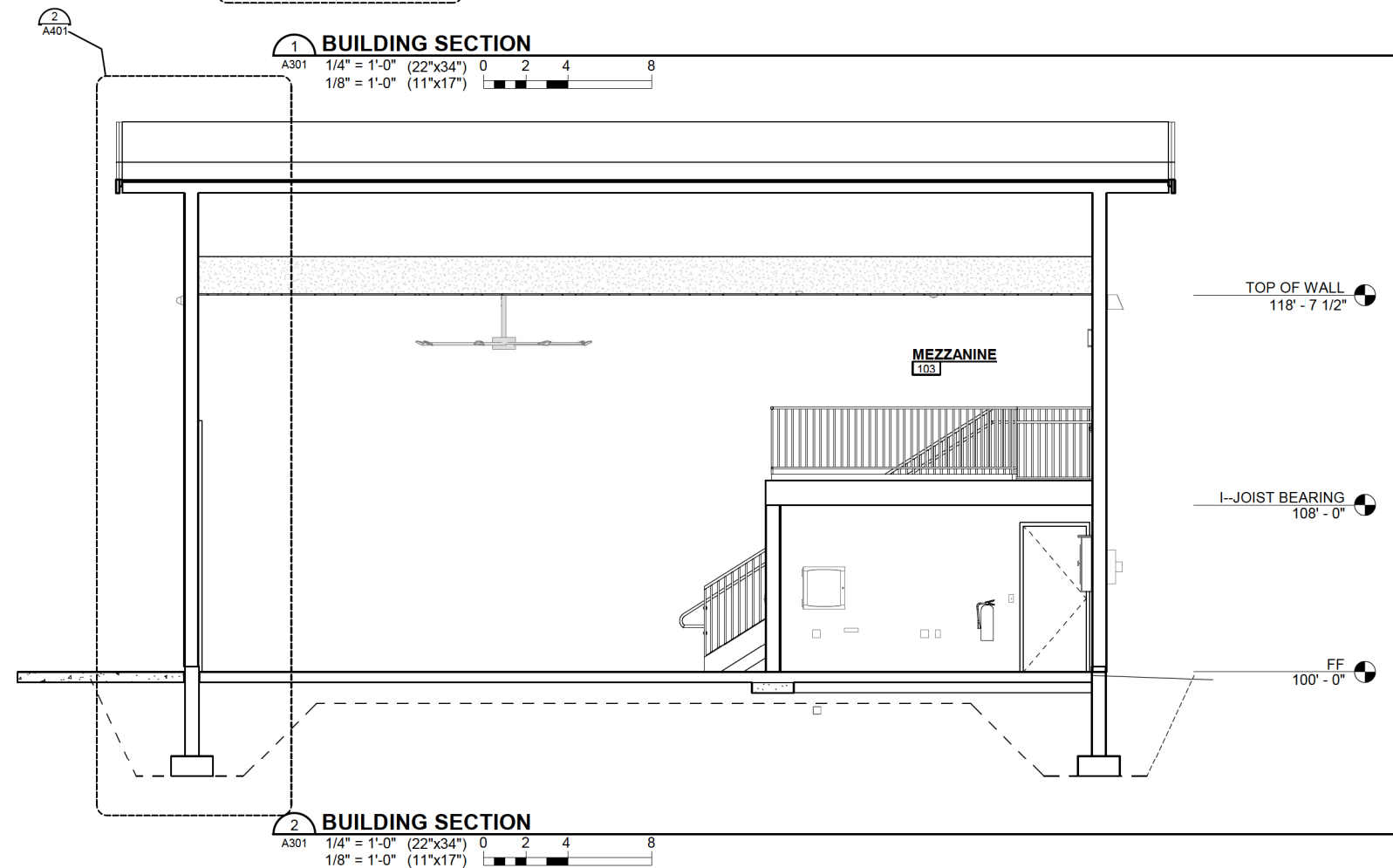
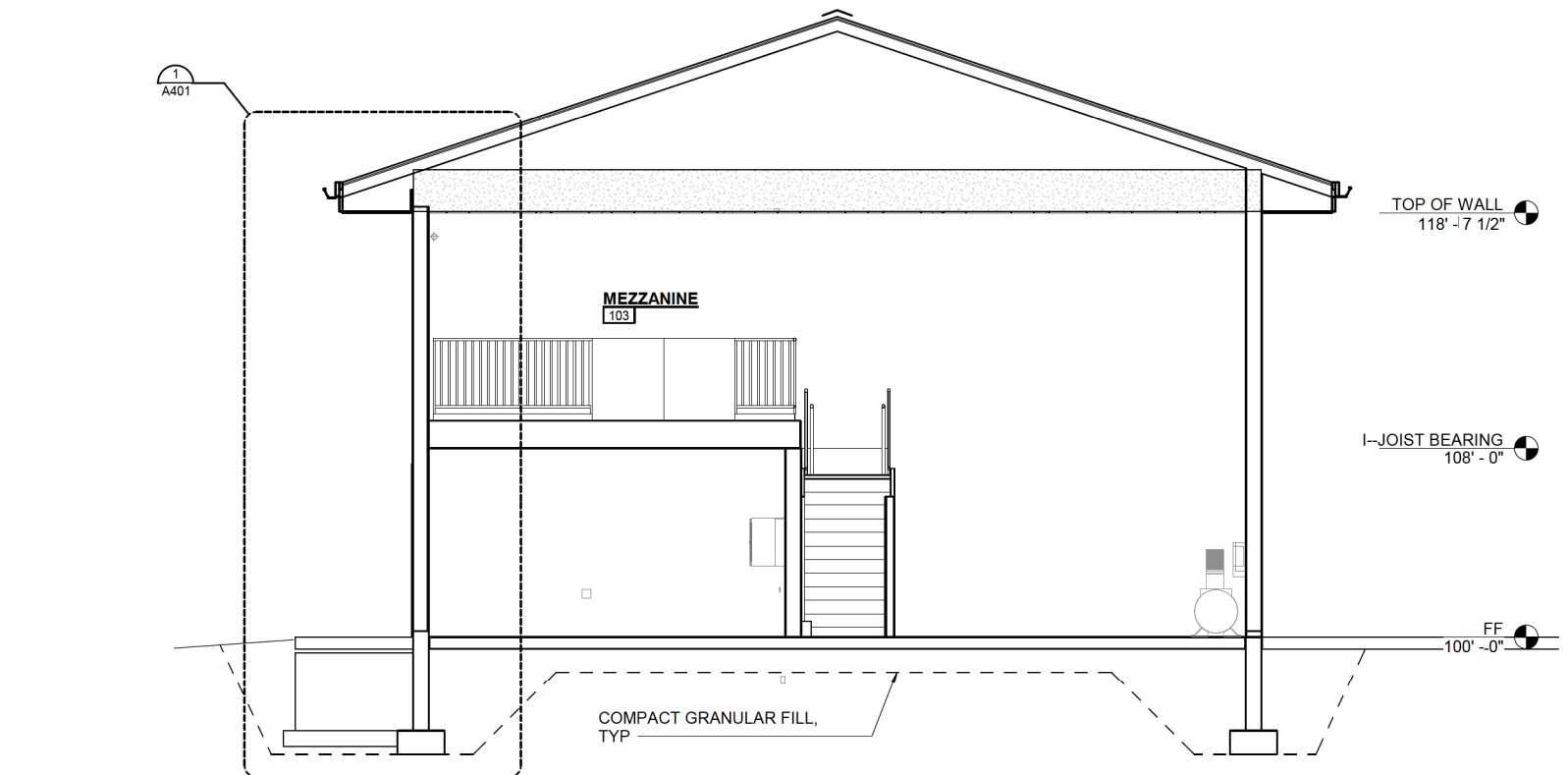
COUNTY: COLUMBIA

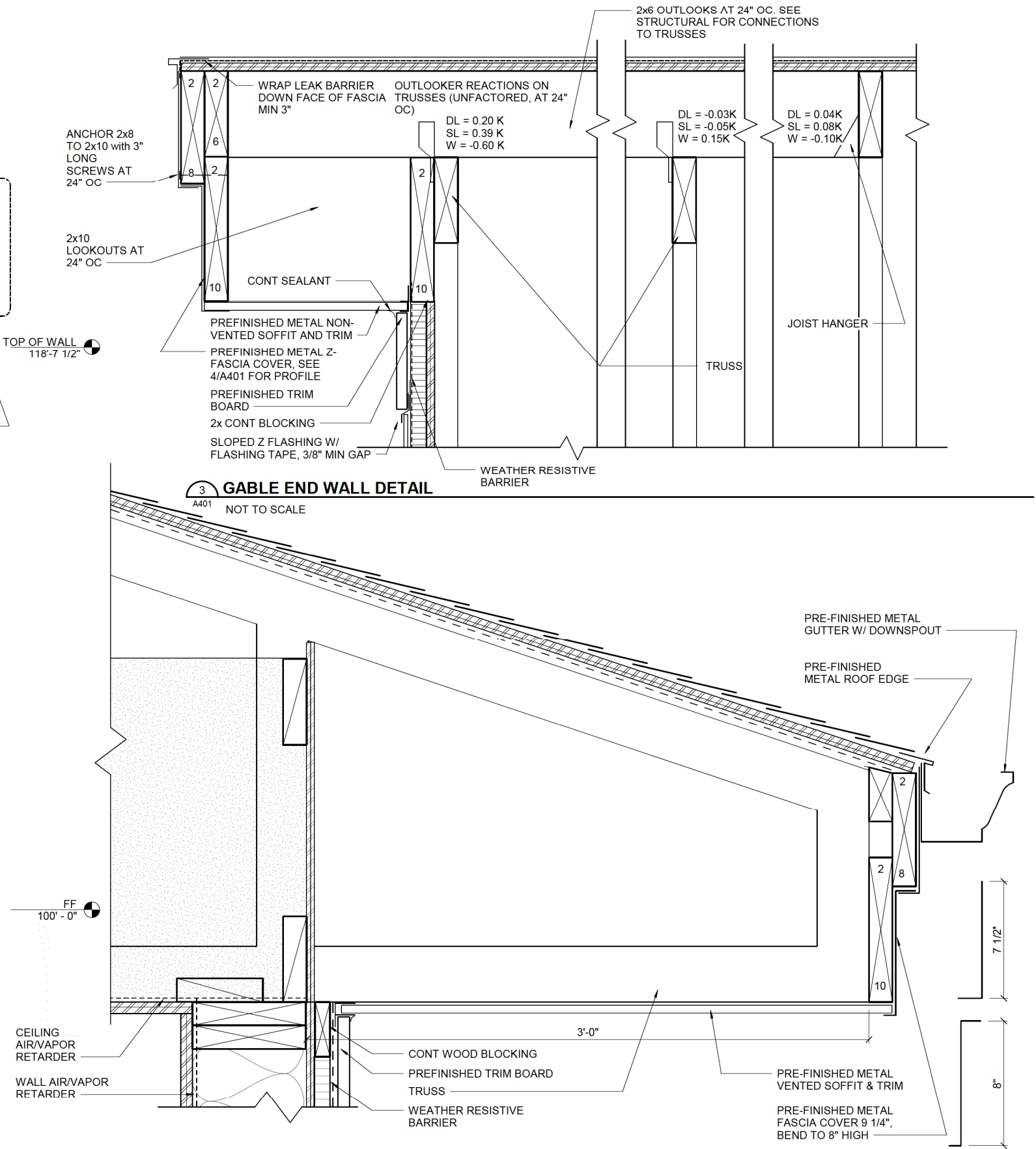
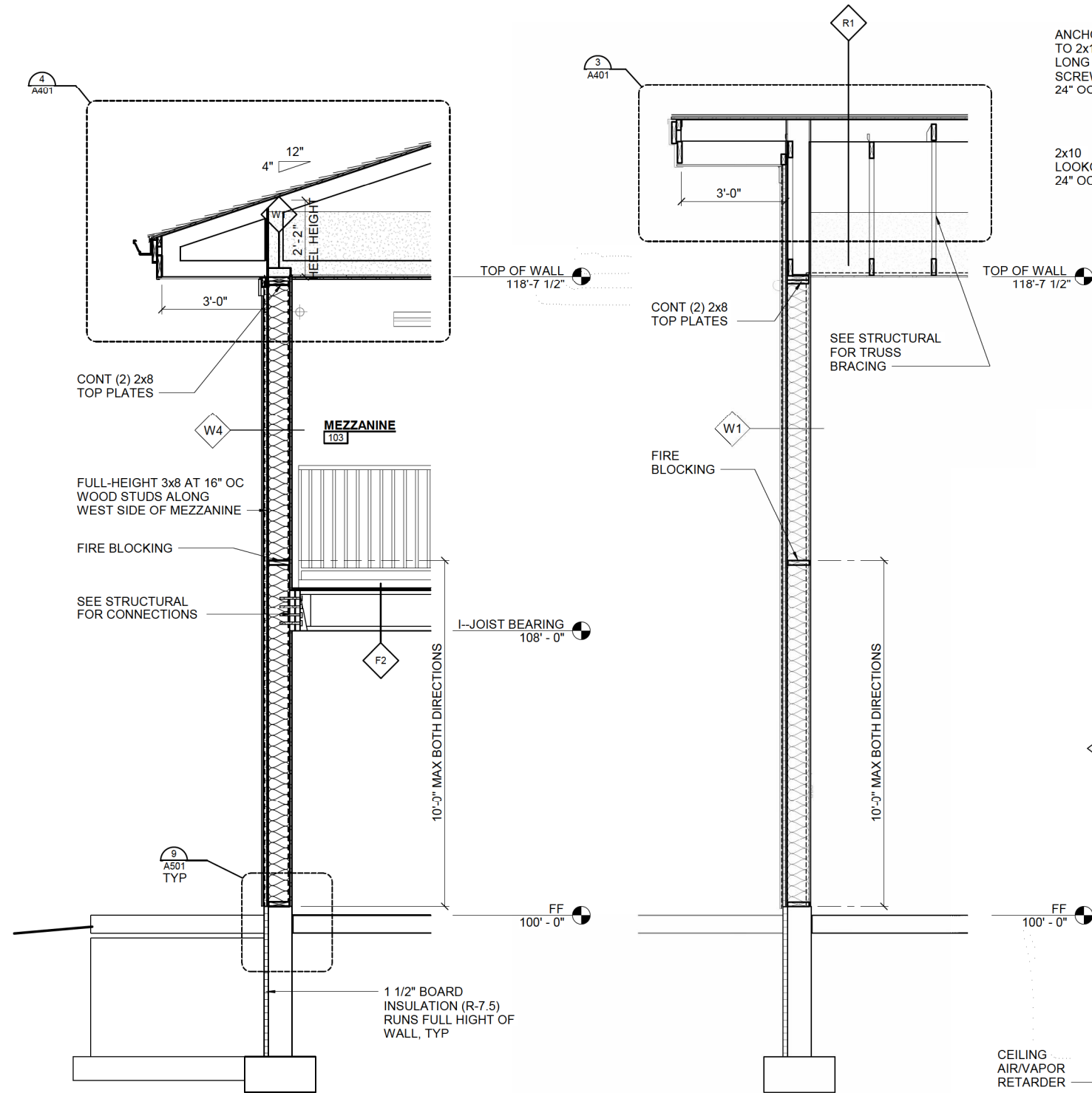
EXTERIOR ELEVATIONS

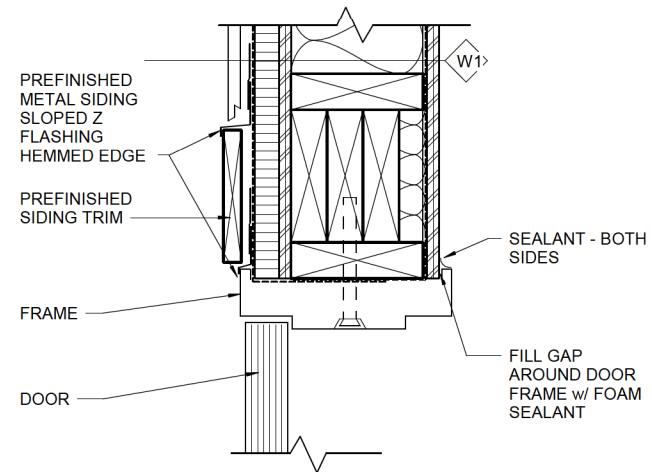
A201

SHEET

E

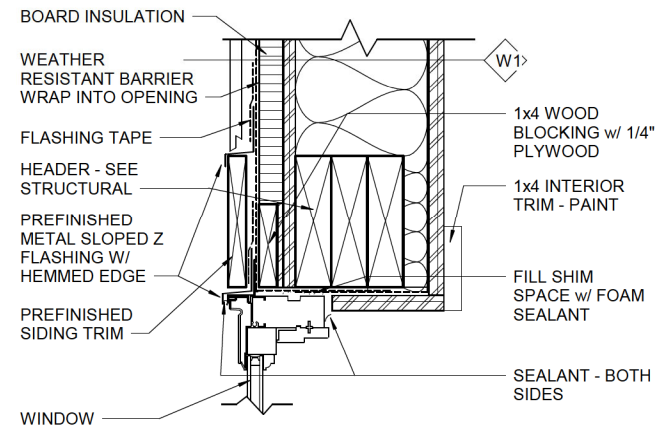






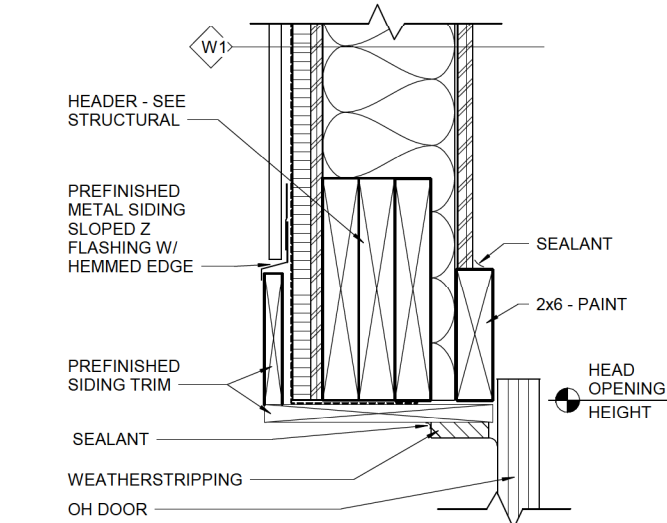
1 EXTERIOR DOOR HEAD DETAIL (SIM)

A501 3" = 1'-0" (22"x34") 0 1 1/2" 3" 6" 9"  
1 1/2" = 1'-0" (11"x17")



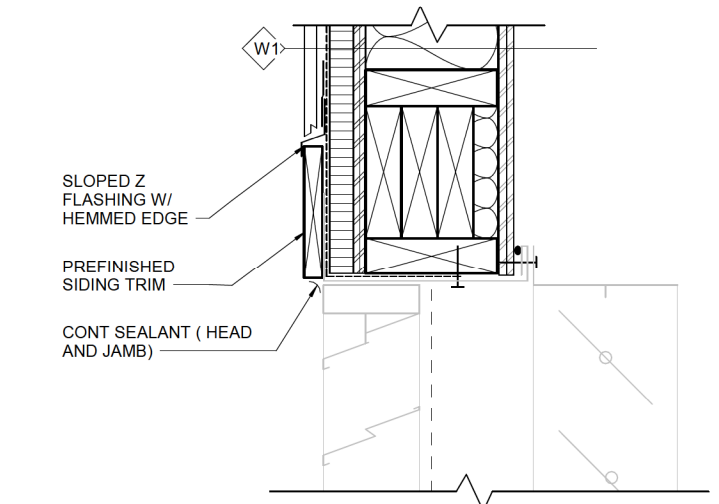
2 EXTERIOR WINDOW HEAD DETAIL (SIM)

A501 3" = 1'-0" (22"x34") 0 1 1/2" 3" 6" 9"  
1 1/2" = 1'-0" (11"x17")



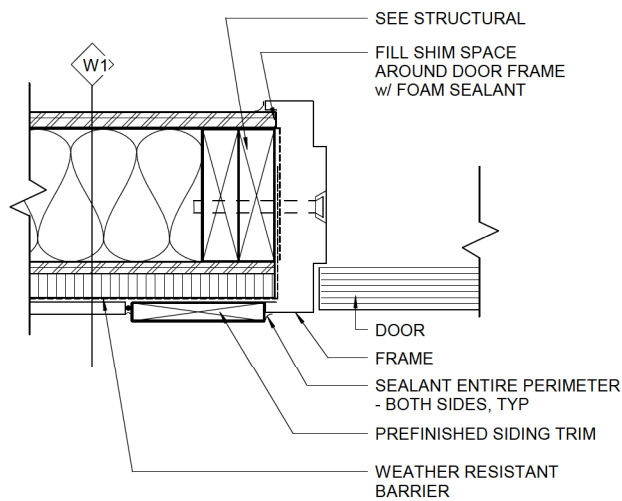
3 EXTERIOR OVERHEAD DOOR HEAD DETAIL (SIM)

A501 3" = 1'-0" (22"x34") 0 1 1/2" 3" 6" 9"  
1 1/2" = 1'-0" (11"x17")



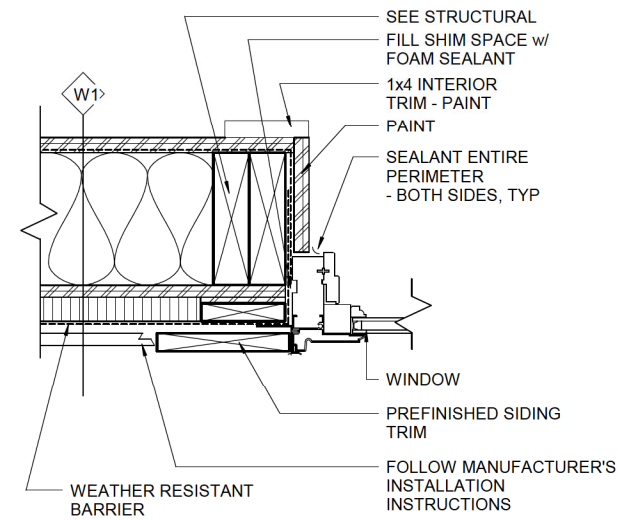
4 LOUVER HEAD DETAIL SIM (JAMB SIM)

A501 3" = 1'-0" (22"x34") 0 1 1/2" 3" 6" 9"  
1 1/2" = 1'-0" (11"x17")



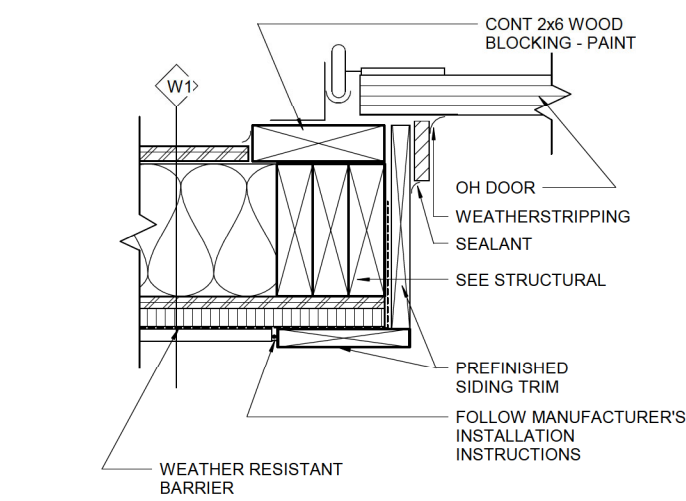
5 EXTERIOR DOOR JAMB DETAIL (SIM)

A501 3" = 1'-0" (22"x34") 0 1 1/2" 3" 6" 9"  
1 1/2" = 1'-0" (11"x17")



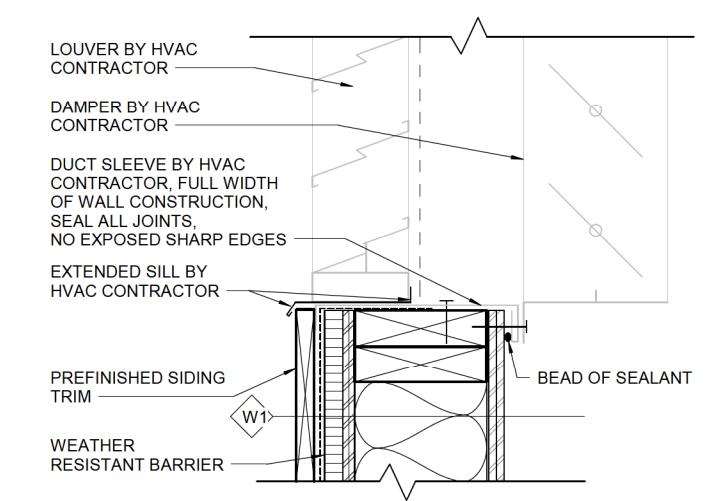
6 EXTERIOR WINDOW JAMB DETAIL (SIM)

A501 3" = 1'-0" (22"x34") 0 1 1/2" 3" 6" 9"  
1 1/2" = 1'-0" (11"x17")



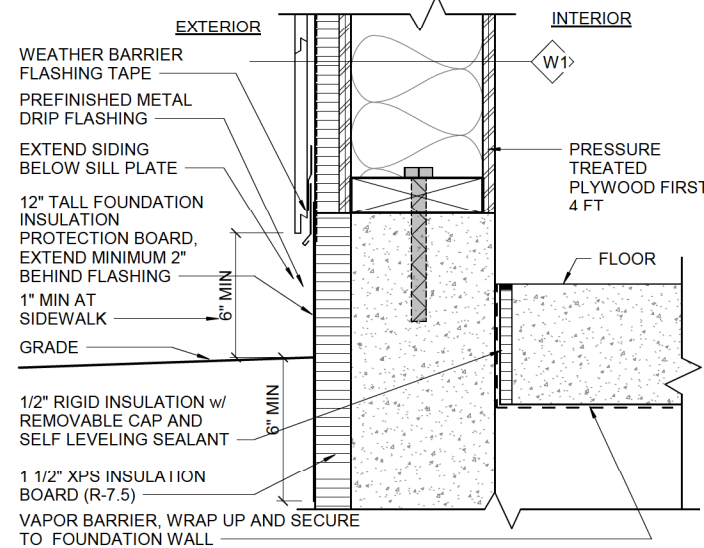
7 EXTERIOR OVERHEAD DOOR JAMB DETAIL (SIM)

A501 3" = 1'-0" (22"x34") 0 1 1/2" 3" 6" 9"  
1 1/2" = 1'-0" (11"x17")



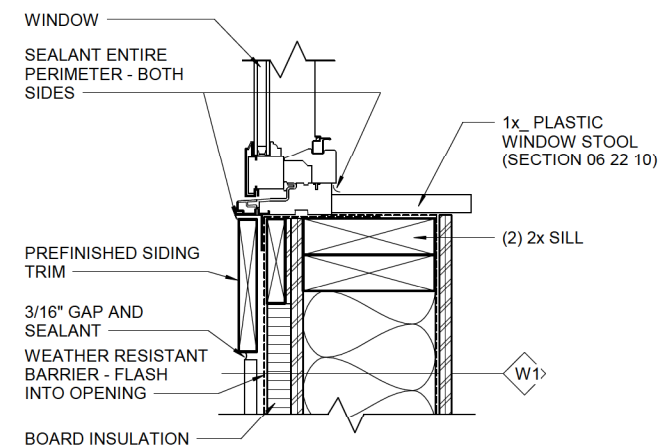
8 LOUVER SILL DETAIL (SIM)

A501 3" = 1'-0" (22"x34") 0 1 1/2" 3" 6" 9"  
1 1/2" = 1'-0" (11"x17")



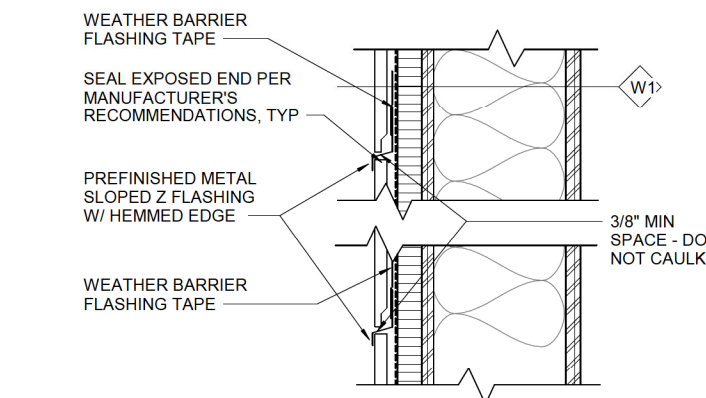
9 BASE OF WALL (SIM)

A501 3" = 1'-0" (22"x34") 0 1 1/2" 3" 6" 9"  
1 1/2" = 1'-0" (11"x17")



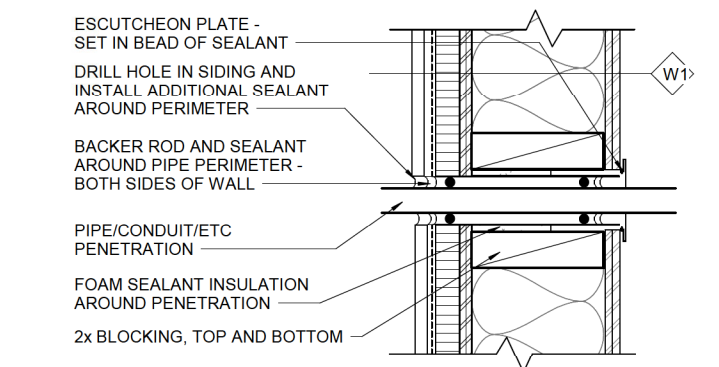
10 EXTERIOR WINDOW SILL DETAIL (SIM)

A501 3" = 1'-0" (22"x34") 0 1 1/2" 3" 6" 9"  
1 1/2" = 1'-0" (11"x17")



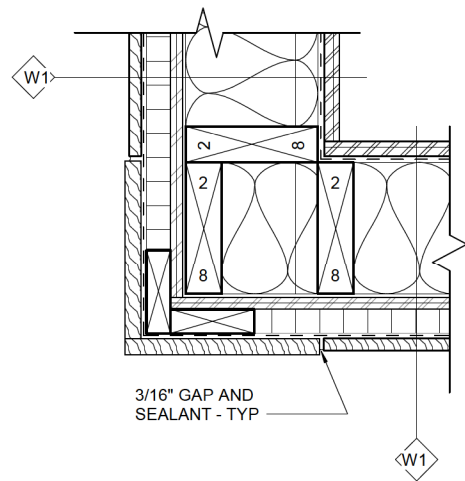
11 WALL TRANSITION DETAIL (SIM)

A501 3" = 1'-0" (22"x34") 0 1 1/2" 3" 6" 9"  
1 1/2" = 1'-0" (11"x17")

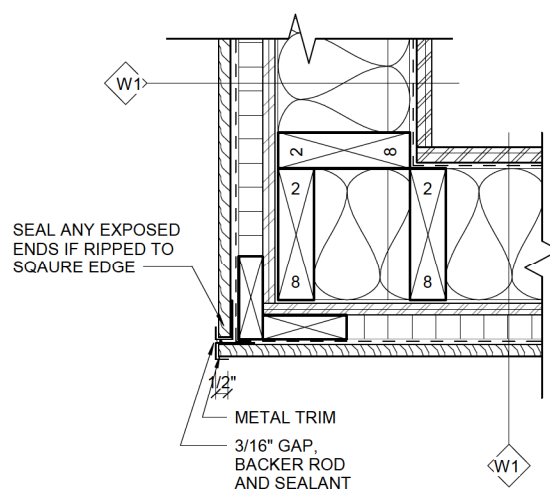


12 PIPE PENETRATION DETAIL (SIM)

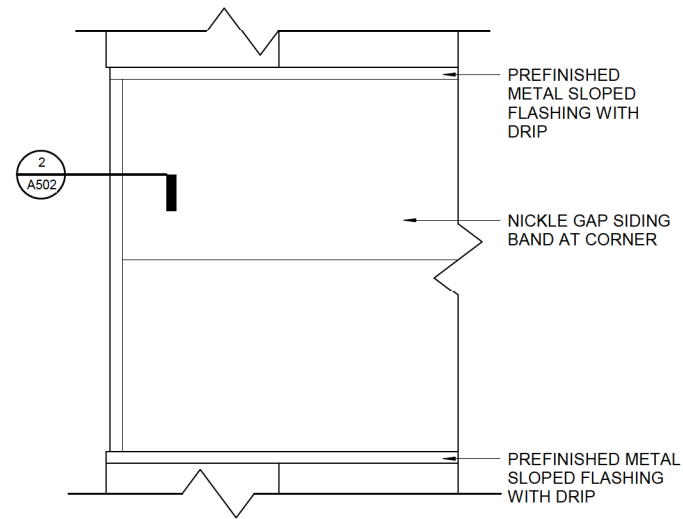
A501 3" = 1'-0" (22"x34") 0 1 1/2" 3" 6" 9"  
1 1/2" = 1'-0" (11"x17")

**1 EXTERIOR CORNER TRIM AT SIDING DETAIL**

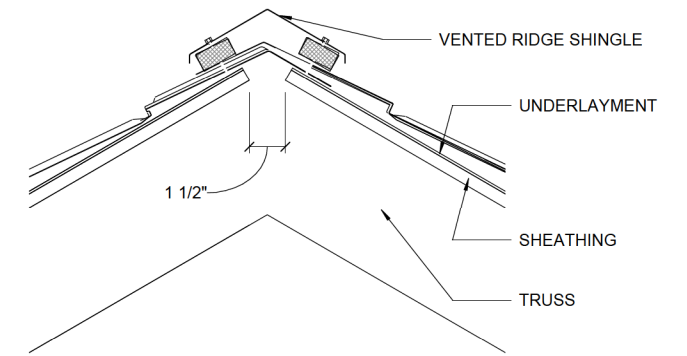
A502 3" = 1'-0" (22"x34") 0 1 1/2" 3" 6" 9"  
1 1/2" = 1'-0" (11"x17")

**2 EXTERIOR CORNER TRIM AT HORIZONTAL BAND**

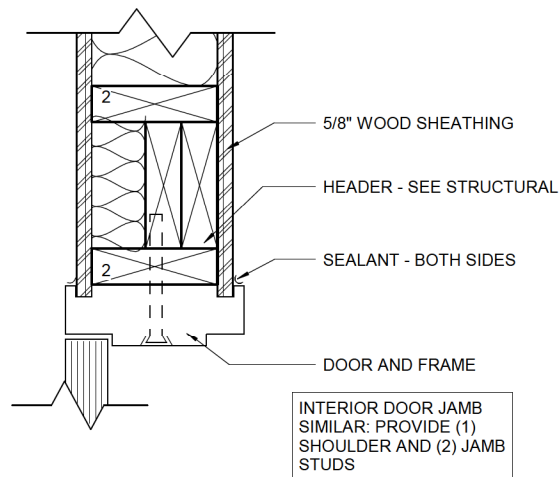
A502 3" = 1'-0" (22"x34") 0 1 1/2" 3" 6" 9"  
1 1/2" = 1'-0" (11"x17")

**3 EXTERIOR CORNER TRIM ELEVATION DETAIL**

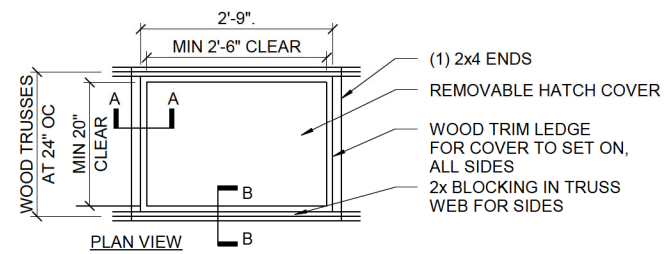
A502 3" = 1'-0" (22"x34") 0 1 1/2" 3" 6" 9"  
1 1/2" = 1'-0" (11"x17")

**4 RIDGE DETAIL**

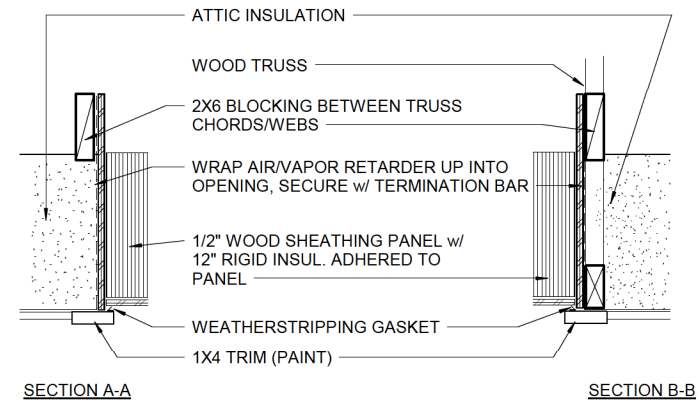
A502 3" = 1'-0" (22"x34") 0 1 1/2" 3" 6" 9"  
1 1/2" = 1'-0" (11"x17")

**5 INTERIOR DOOR HEAD DETAIL (JAMB SIM)**

A502 NONE

**6 ATTIC ACCESS HATCH DETAIL**

A502 NONE

**7 NOT USED**

A502

**8 NOT USED**

A502

**9 NOT USED**

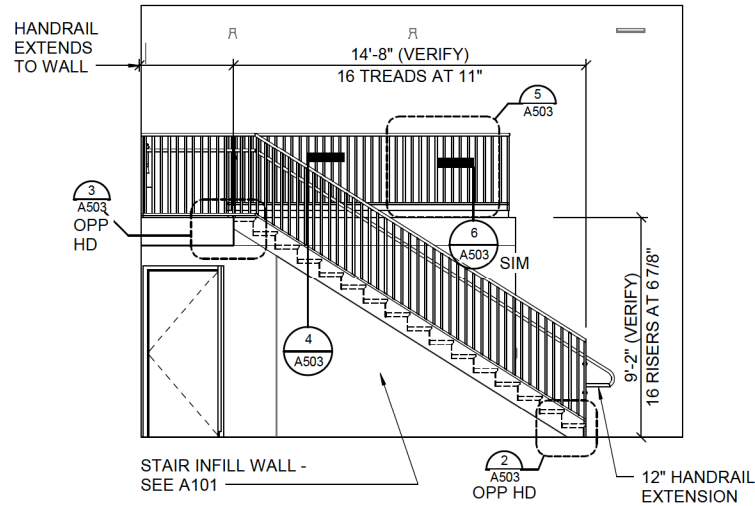
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**10 NOT USED**

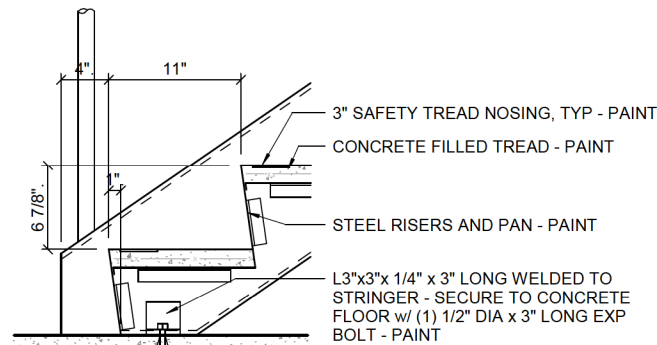
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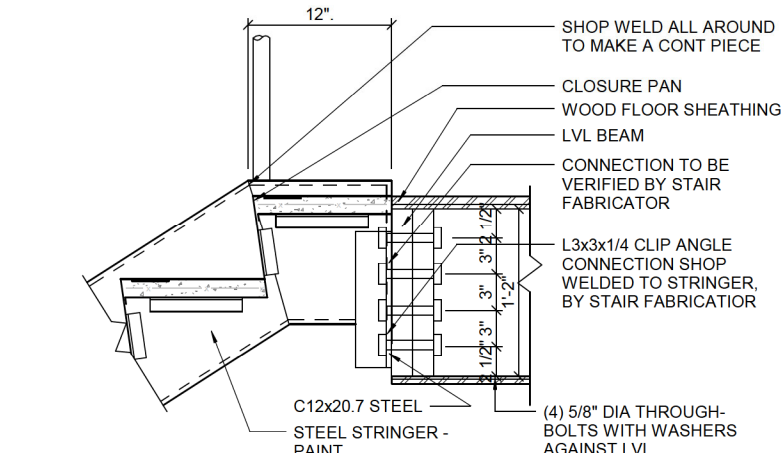
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**1 STAIR ELEVATION**

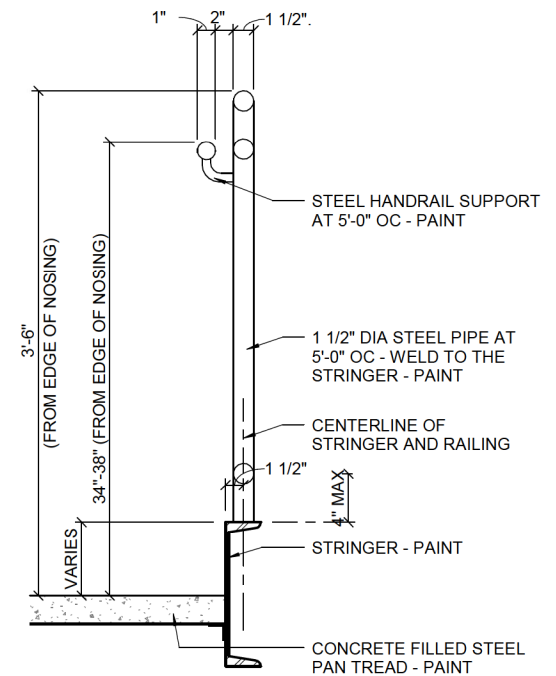
A503 1 1/4" = 1'-0" (22"x34")  
1/8" = 1'-0" (11"x17")

**2 BASE OF STAIR DETAIL**

A503 1 1/2" = 1'-0" (22"x34")  
3/4" = 1'-0" (11"x17")

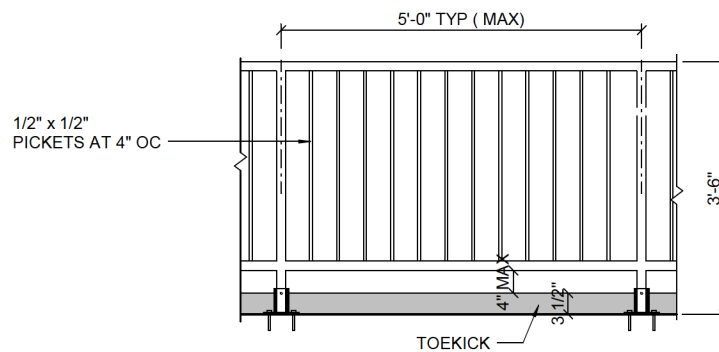
**3 TOP OF STAIR DETAIL**

A503 1 1/2" = 1'-0" (22"x34")  
3/4" = 1'-0" (11"x17")

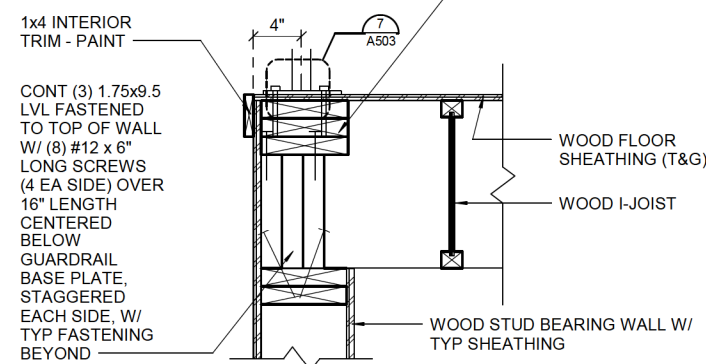
**4 STAIR HANDRAIL/ GUARDRAIL DETAIL**

A503 1 1/2" = 1'-0" (22"x34")  
3/4" = 1'-0" (11"x17")

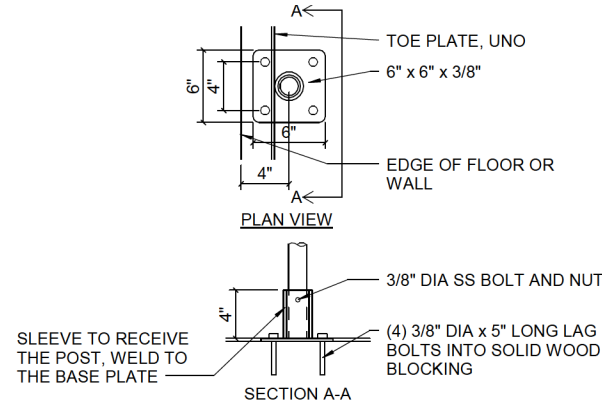
NOTE: ENTIRE ASSEMBLY SHALL BE PAINTED STEEL

**5 MEZZANINE GUARDRAIL DETAIL**

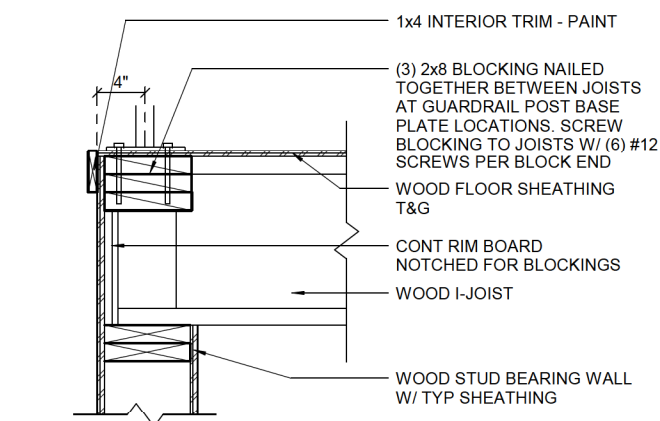
A503 3/4" = 1'-0" (22"x34")  
3/8" = 1'-0" (11"x17")

**6 MEZZANINE GUARDRAIL SECTION**

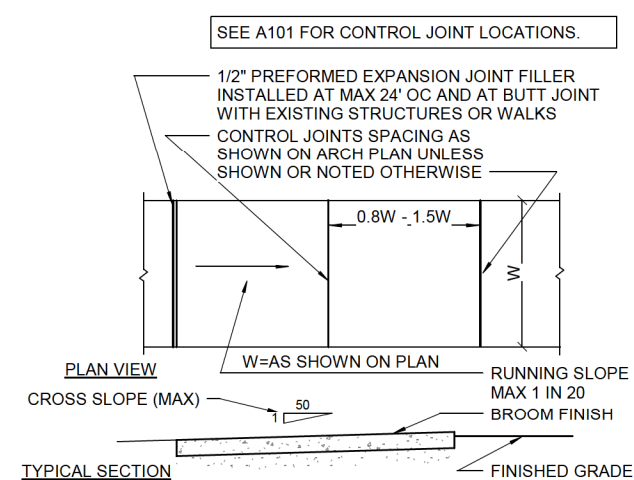
A503 1 1/2" = 1'-0" (22"x34")  
3/4" = 1'-0" (11"x17")

**7 TOP MOUNTED RAILING DETAIL**

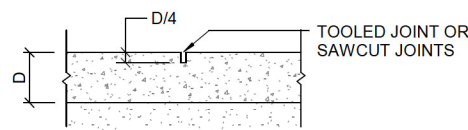
A503 1 1/2" = 1'-0" (22"x34")  
3/4" = 1'-0" (11"x17")

**8 GUARDRAIL SECTION ALONG I-JOIST BEARING WALL**

A503 1 1/2" = 1'-0" (22"x34")  
3/4" = 1'-0" (11"x17")

**9 CONCRETE SIDEWALK CONTROL JOINTS (CJ) DETAIL**

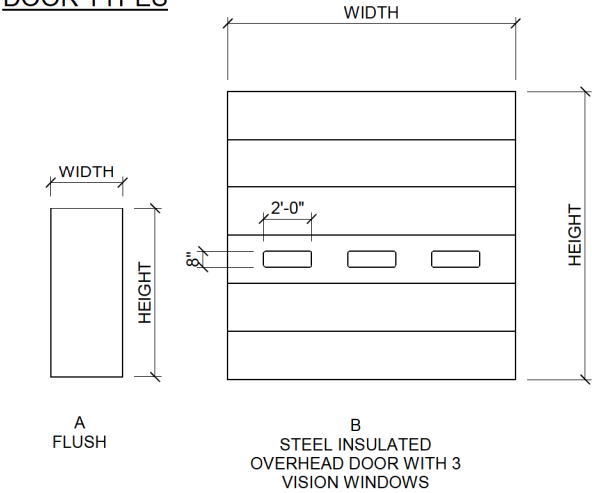
A503 NONE

**CONTROL JOINT SECTION**

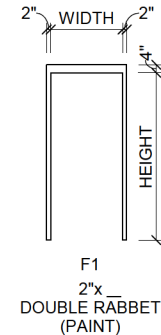
ROOM FINISH SCHEDULE										
ROOM No	ROOM NAME	FLOOR	BASE	WALLS				CEILING		REMARKS
				NORTH	EAST	SOUTH	WEST	MAT'L	HEIGHT	
101	EQUIPMENT STORAGE	F1	-	W1	W1	W1	W1	C1	18'- 3/8"	1.
102	SECURE STORAGE	F1	B1	W1	W1	W1	W1	C2	-	1.
103	MEZZANINE	F2	-	-	-	W2	W2	C1	18'- 3/8"	1.
<u>GENERAL NOTES</u> A. PAINT ALL EXPOSED PIPES, CONDUIT, DUCTWORK, ETC.										
<u>REMARKS</u> 1. NONE										
<u>LEGEND</u> FLOOR: F1. EXPOSED CONCRETE F2. WOOD SHEATHING - T&G  BASE: - NONE B1. INTERIOR TRIM 1x4  WALLS: - NONE W1: WOOD SHEATHING - PAINT THE FIRST 4'-0" FROM FF COLOR SW 7661, THE REST COLOR SW 7005 W2: WOOD SHEATHING - PAINT COLOR SW 7005  CEILINGS: C1: WOOD SHEATHING - PAINT COLOR SW 7005 C2: EXPOSED STRUCTURE										

DOOR SCHEDULE														
OPENING No	DOOR					FRAME					HW SET	GLASS TYPE	FIRE RATING	REMARKS
	TYPE	MATL	NOMINAL SIZE			TYPE	MATL	DETAILS						
			WIDTH	HEIGHT	THICKNESS			HEAD	JAMB	SILL				
101	A	FRP	3' - 0"	7' - 0"	1 3/4"	F1	FRP	1/A501	5/A501	1/S501	2	-	-	
102	A	FRP	3' - 0"	7' - 0"	1 3/4"	F1	FRP	5/A502	5/A502	-	1	-	-	
103	B	STL	16' - 0"	12' - 0"	2"	F2	STL	3/A501	7/A501	2/S501	-	A	-	1.
<u>GENERAL NOTES</u> A. SET THRESHOLD IN A BEAD OF SEALANT. B. TRACK AND HARDWARE SUPPLIED BY DOOR MANUFACTURER.														
<u>REMARKS</u> 1. OH DOOR SIZE SCHEDULED IS OPENING SIZE. ACTUAL OH DOOR SIZE SHALL BE 2" WIDER AND 1" TALLER.														

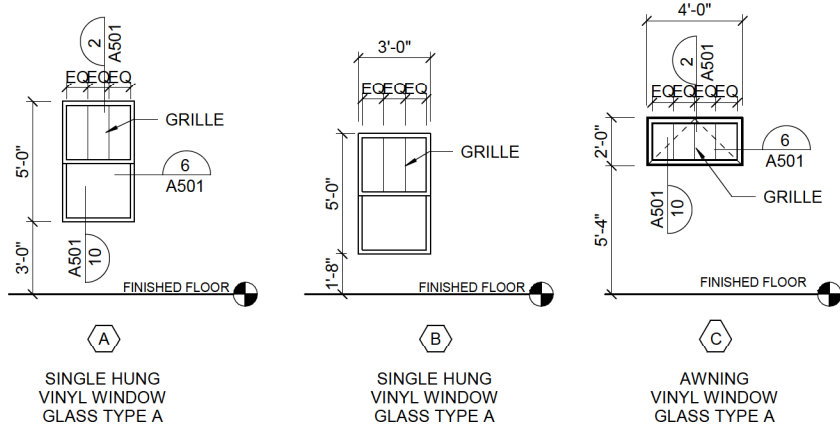
DOOR TYPES



FRAME TYPES



WINDOW TYPES



#	ASSEMBLY CONSTRUCTION SCHEDULE	
TAG	ASSEMBLY	DESCRIPTION
FLOORS		
F1		• CONCRETE FLOOR SLAB - SEE STRUCTURAL
F2		• 3/4" T&G WOOD SHEATHING • WOOD FRAMED DECK - SEE STRUCTURAL
WALLS		
W1		• ENGINEERED WOOD SIDING • WEATHER RESISTANT BARRIER • 1" BOARD INSULATION (R-5) • 1/2" WOOD SHEATHING • 2x8 WOOD STUD AT 16" OC W/ FIBERGLASS BATT INSULATION (R-22) • AIR/VAPOR RETARDER • 1/2" WOOD SHEATHING
W2		• 1/2" WOOD SHEATHING w/ 1x4 BASE TRIM • 2x8 WOOD STUD AT 16" OC • 1/2" WOOD SHEATHING w/ 1x4 BASE TRIM
W3		• 1/2" WOOD SHEATHING w/ 1x4 BASE TRIM • 2x4 WOOD STUD AT 16" OC
W4		• ENGINEERED WOOD SIDING • WEATHER RESISTANT BARRIER • 1" BOARD INSULATION (R-5) • 1/2" WOOD SHEATHING • 3x8 WOOD STUD AT 16" OC W/ FIBERGLASS BATT INSULATION (R-22) • AIR/VAPOR RETARDER • 1/2" WOOD SHEATHING
ROOF		
R1		• STONE COATED METAL SHINGLE ROOF • 15" FELT PAPER • ICE & WATER BARRIER ENTIRE ROOF • 5/8" ROOF SHEATHING W/ CLIPS • PRE-ENGINEERED WOOD TRUSS • BLOWN FIBERGLASS INSULATION (R-60) • AIR/VAPOR RETARDER
<u>GENERAL NOTES</u> A. FLOOR TYPES ARE LISTED TOP TO BOTTOM B. WALL TYPES ARE LISTED OUTSIDE TO INSIDE		

BUILDING INFORMATION:

CODE	2018 WISCONSIN COMMERCIAL BUILDING CODE (2015 IBC)
BUILDING AREA:	ENCLOSED: 1,584 SF COVERED: 0 SF TOTAL: 1,584 SF
BUILDING VOLUME:	OVER 25,000 CF, BELOW 50,000 CF
CONSTRUCTION TYPE:	VB
OCCUPANCIES:	S-2
ALLOWABLE AREA TABULAR (IBC TABLE 506.2):	13,500 SF
ALLOWABLE HEIGHT (TABLE 504.3):	40 FEET
SPRINKLERS: NO SEPARATION OF OCCUPANCIES OR FIRE AREAS REQ'D	NONE (NFPA-13)
EXIT DISTANCE:	300 FEET
MIN COMMON PATH OF TRAVEL DISTANCE (1006.3.2(2)):	75 FEET
OCCUPANT LOAD SUMMARY:	3.168 PERSONS
SANITARY FIXTURES: RESTROOM BUILDING ACCESSIBLE ALL SEASONS TO STAFF IS WITHIN 300 FEET OF DISTANCE ( 2902.3.3)	

KEY NOTES #

1. INSTALL 24X24 INSULATED BACKDRAFT DAMPER ON LOUVER. TERMINATE BACKDRAFT DAMPER WITH 1/2"x1/2" SCREEN. TOP OF LOUVER TO BE 14'-0" AFF.
2. SUPPORT GAS UNIT HEATER FROM WALL WITH MANUFACTURER WALL BRACKET. INSTALL CONCENTRIC VENT KIT AND TERMINATE OUT WALL PER MANUFACTURER RECOMMENDATIONS. TOP OF HEATER AT 10'-0" AFF.
3. NEW 3/4-INCH GAS SERVICE AND METER BY UTILITY. ROUTE GAS FROM UTILITY PROVIDED METER INTO BUILDING. SEAL PENETRATION WEATHER AND VAPOR TIGHT. ROUTE GAS PIPING UP EXTERIOR WALL SURFACE TO 17'-0" AFF.
4. HANG DESTRATIFICATION FAN MAXIMUM 18-INCHES FROM ROOF STRUCTURE.
5. INSTALL BASEBOARD HEATER BELOW WINDOW.
6. INSTALL TOP OF EXHAUST FAN 11'-9" AFF.
7. RELOCATED AIR COMPRESSOR. HOSE AND ACCESSORIES BY OTHERS.
8. INSTALL DESTRATIFICATION FAN CONTROLLER 42-INCHES AFF.
9. 3/4-INCH GAS DOWN TO CONNECTION ON GUH. PROVIDE DIRT LEG, SHUTOFF, AND REGULATOR UPSTREAM OF CONNECTION. REGULATOR DOWN TO MANUFACTURER OPERATING PRESSURE.
10. 10"X10" DUCT FROM BOTTOM OF EXHAUST FAN WITH BALANCE DAMPER DOWN TO 12" AFF. TERMINATE WITH SCREEN. BALANCE TO 250 CFM.
11. INSTALL EXHAUST FAN THERMOSTAT ON WALL 42" AFF.

ELECTRIC BASEBOARD RADIATION

UNIT NO.	CAP. WATTS	CAP. BTU	CABINET			MANUF. MODEL
			H	D	L	
EBB-1	750 W	2,560	0' - 6"	0' - 3 5/8"	4' - 0"	QMARK DPH

WEATHERPROOF LOUVERS

UNIT NO.	SERVICE	NOM. WIDTH (IN.)	NOM. HEIGHT (IN.)	CFM	MAX FREE AREA VELOCITY (FPM)	MANUF. MODEL
L-1	EQUIPMENT STORAGE 101	24	24	1,250	1,000	RUSKIN ELF6375DX

PROPELLER EXHAUST FANS

UNIT NO.	SERVICE	CFM OF STD. AIR	EXT. S.P. IN IN. WATER	MOTOR HP	MOTOR RPM	DRIVE	FAN DIA.	MOTORIZED DAMPER	SUPPORT	MANUF. MODEL
EF-1	EQUIPMENT STORAGE 101	1,250	0.25	0.25	1300	DIRECT	2' - 6 1/8"	NO	WALL	GREENHECK AER

DESTRATIFICATION FANS - HVLS

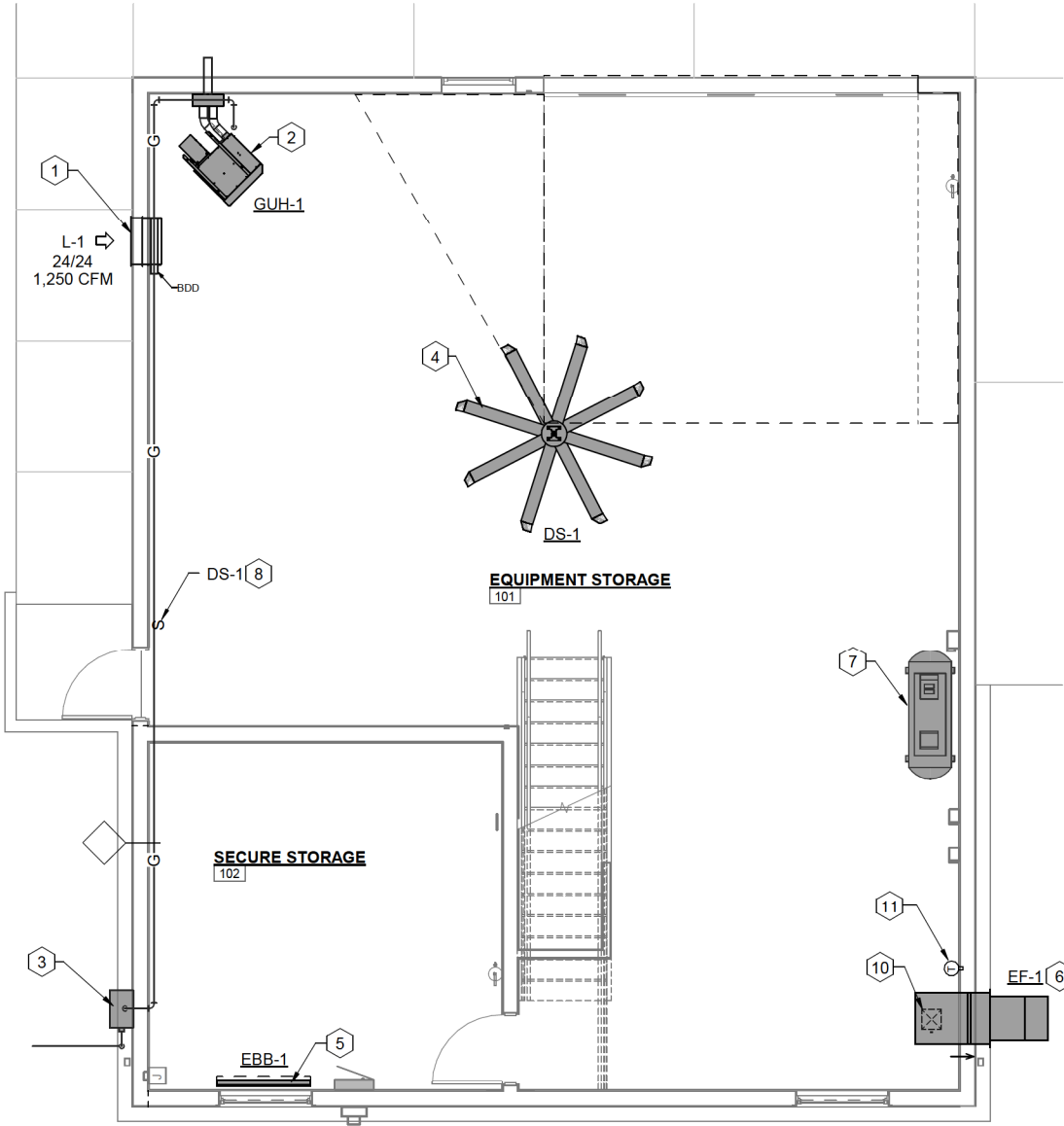
UNIT NO.	SERVICE	FAN DIA	CONTROL PANEL	BLADE HEIGHT A.F.F.	MANUF. MODEL
DS-1	EQUIPMENT STORAGE 101	8' - 0"	WALL CONTROLLER	15' - 6"	GREENHECK HVLS

GAS FIRED UNIT HEATERS

UNIT NO.	SERVICE	GAS INPUT MBH	GAS OUTPUT MBH	CFM OF STD. AIR	GAS TYPE	MOTOR HP	FAN TYPE	COMB. AIR VENT DIA.	FUEL VENT DIA.	DIFFUSER	MANUF. MODEL
GUH-1	EQUIPMENT STORAGE 101	30,000	24,600	506	NAT. GAS	0.17	PROP.	4"	4"	HORIZ.	REZNOR UBXC

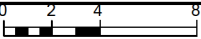
EQUIPMENT ELECTRICAL INFORMATION

DESCRIPTION	MCA	MOTOR HP	VOLTAGE	PHASE	FLA	KW	COMMENTS
DS-1	8.75		240	1	7.0	0.5	
EBB-1	7.75		208	1	6.2	0.75	
EF-1	3.56	0.25	120	1	2.85		
GUH-1	4.625	0.17	120	1	3.7		




HVAC FLOOR PLAN

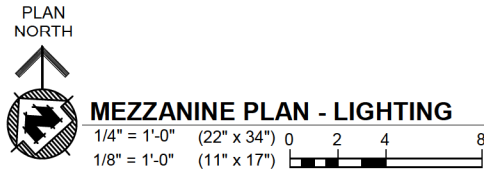
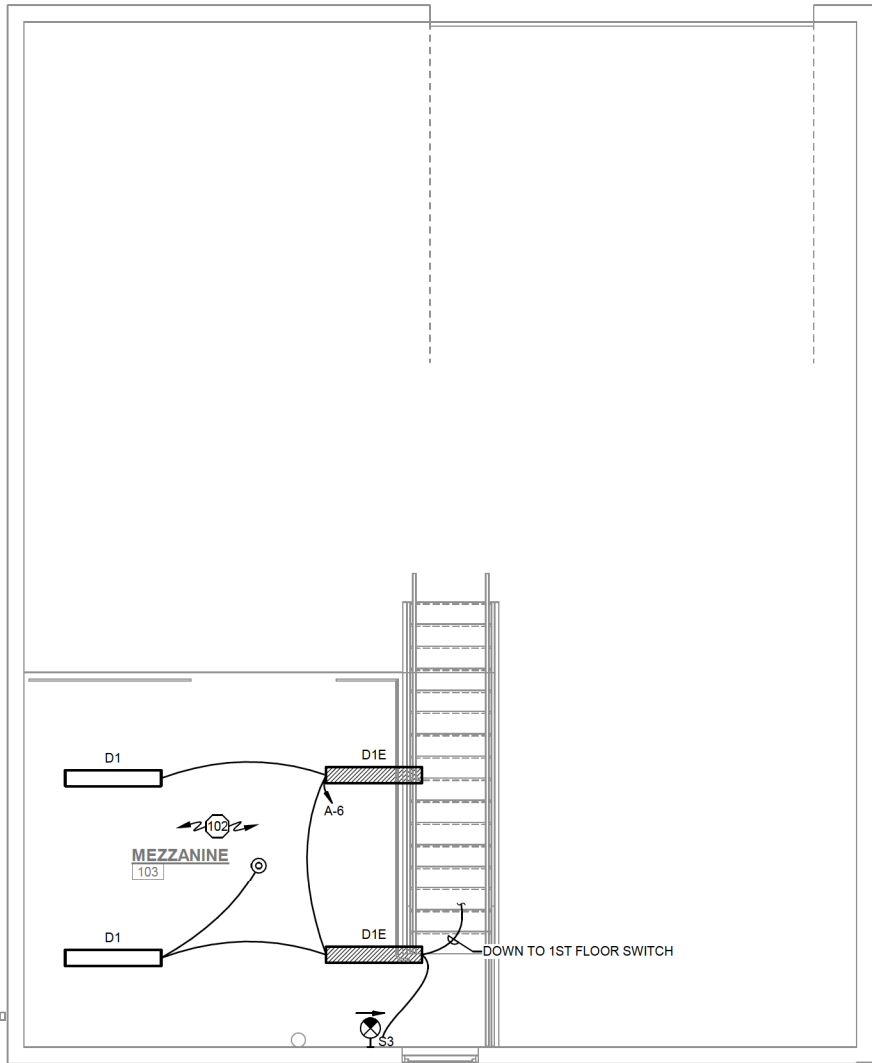
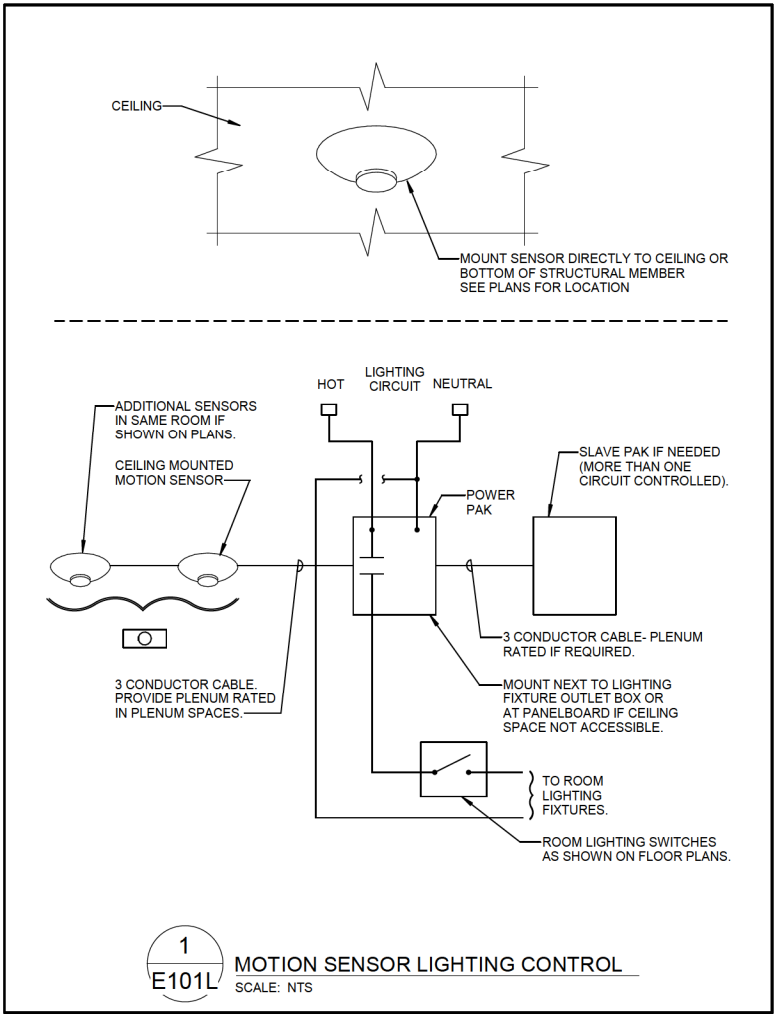
1/4" = 1'-0" (22"x34")  
1/8" = 1'-0" (11"x17")







MERRIMAC FERRY MAINTENANCE SHED - LIGHT FIXTURE SCHEDULE						
TYPE	DESCRIPTION	LAMP TYPE	WATTS	MANUFACTURER	CATALOG NUMBER	NOTE
D1	4' INDUSTRIAL LED STRIP FIXTURE - 5000 LUMENS	4000K LED	32	LITHONIA	CLX L48 5000LM SEF RDL MVOLT GZ10 40K 80CRI WH	2
				DAY-BRITE	FSS4551.840-UNV-DIM	
D1E	4' INDUSTRIAL LED STRIP FIXTURE - 5000 LUMENS W/EM PACK	4000K LED	32	LITHONIA	CLX L48 5000LM SEF RDL MVOLT GZ10 40K 80CRI E10W WH	2
				DAY-BRITE	FSS4551.840-UNV-DIM-EMLED	
H2	EXTERIOR WALL PACK - FORWARD THROW OPTICS W/PHOTOCELL - 2000 LUMENS	4000K LED	19	LITHONIA	WDGE21.ED-P2-40K-80CRI-T4M-MVOLT-NLTAIR2-PIRH	
				GARDCO	101 LED SCONE	
J1	INTERIOR HIGH-BAY LUMINAIRE W/HIGH BAY OCC SENSOR - 12000 LUMENS	4000K LED	87	LITHONIA	CPHB-12000LM-SEF-MD-MVOLT-GZ10-40K-80CRI-DWH-LSXR6-HL	2
				LOUVERS INTL	LL-CLHB(90/105/130)W-(40/50)K-LV-E W/WIREGUARD	
J1E	INTERIOR HIGH-BAY LUMINAIRE W/HIGH BAY OCC SENSOR - 12000 LUMENS W/EM PACK	4000K LED	87	LITHONIA	CPHB-12000LM-SEF-MD-MVOLT-GZ10-40K-80CRI-E20WCPHE-DWH-LSXR6-HL	2
				LOUVERS INTL	LL-CLHB(90/105/130)W-(40/50)K-LV W/WIREGUARD	
X1	UNIVERSAL LED EMERGENCY LIGHT - WEATHER PROOF - COLD WEATHER	-	-	LITHONIA	AFO-DB-MVOLT-N-SD-CW	3
				SURELITES	AEL2-46-BZ-SD	
 WP	UNIVERSAL LED EXIT LIGHT	RED LED	-	LITHONIA	WLTE W 1 R EL	1
				EMERGILITE	VWVSX1R-4X	

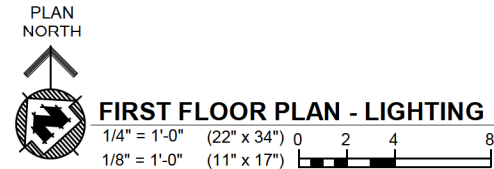
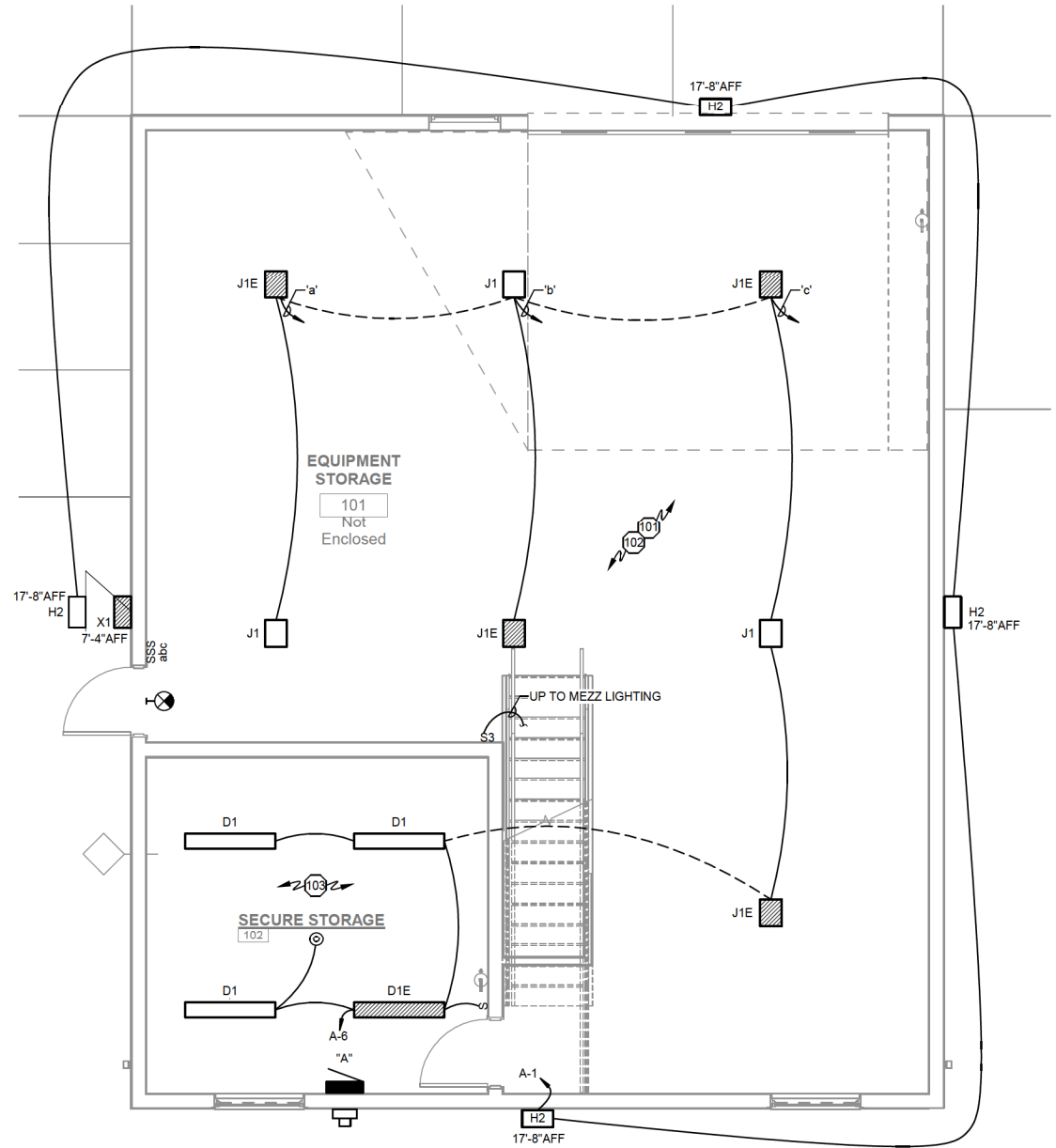
3. PROVIDE FIXTURES WITH COLD RATED EMERGENCY BATTERY PACK.

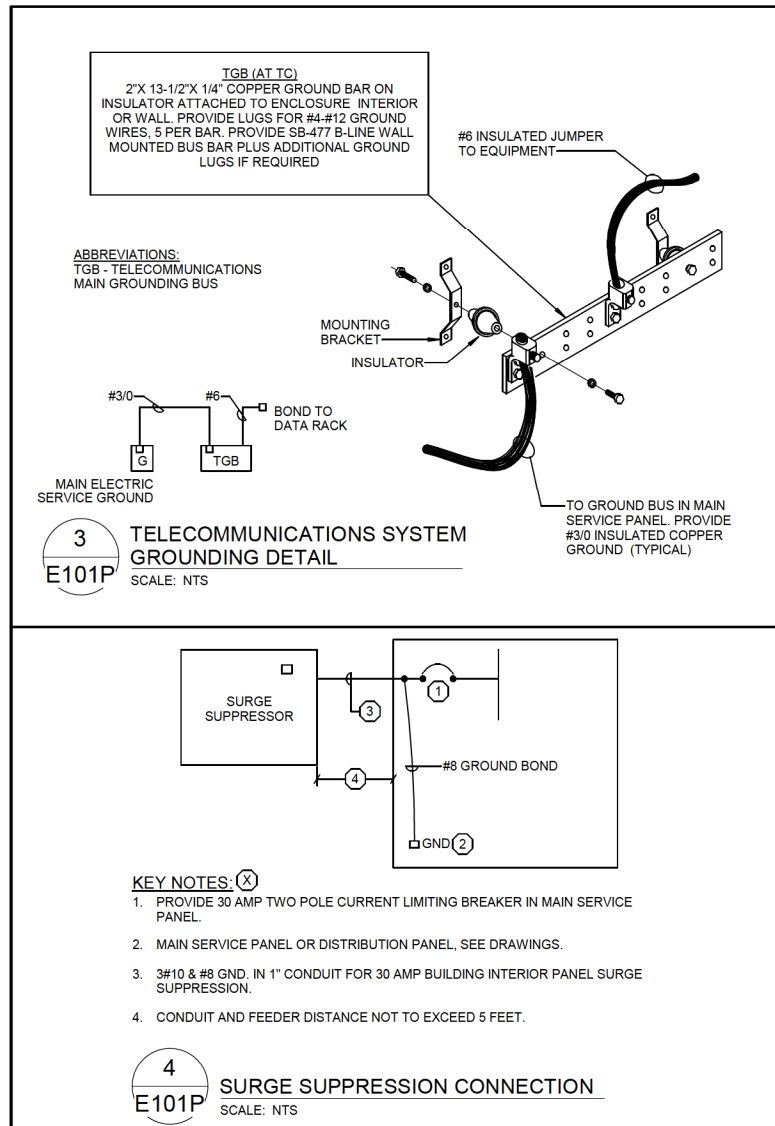


### GENERAL NOTES - LIGHTING

1. DEMOLISH ALL EXISTING ELECTRICAL DEVICES IN EXISTING TO BE DEMOLISHED MAINTENANCE SHED. RETURN ANY EQUIPMENT TO OWNER AS NEEDED. SALVAGE EXISTING UNDERGROUND SECONDARY CONDUITS AND EXTEND TO NEW EXTERIOR MOUNTED METER PEDESTAL. SEE NOTE 206 ON POWER PLANS TO RE-FEED EXISTING RESTROOM BUILDING.
2. ALL LIGHTING FIXTURES IN MECHANICAL ROOMS SHALL BE LAID OUT ON SITE AND DETERMINED BY THE MECHANICAL EQUIPMENT IN ROOM.
3. ALL EXIT LIGHTS AND X1 FIXTURES ON THIS SHEET SHALL BE CIRCUITED TO LIGHTING IN ROOM PER NEC.
4. SHADED FIXTURE (  ) INDICATES FIXTURE PROVIDED WITH INTERNAL EMERGENCY BATTERY PACK.
5. IN ROOMS WITH OCCUPANCY SENSOR, GENERAL ILLUMINATION IN ROOM SHALL BE CONTROLLED BY SENSOR. EMERGENCY LIGHTING SHALL NOT BE CONNECTED TO SENSOR. CONTRACTOR TO DETERMINE BEST LOCATION FOR SENSOR IN FIELD WITH MANUFACTURER. SEE DETAIL .

PLAN NOTES - LIGHTING (X)	
101	ALL CONDUITS AND BOXES TO BE SURFACE MOUNTED IN THIS AREA.
102	ALL LIGHT FIXTURES IN THIS ROOM TO BE SUSPENDED 1' FROM THE CEILING.
103	SURFACE MOUNT LIGHTING FIXTURES, CONTROLS, CONDUITS AND WIRE TO THE CEILING STRUCTURE WHERE APPLICABLE IN THIS ROOM.

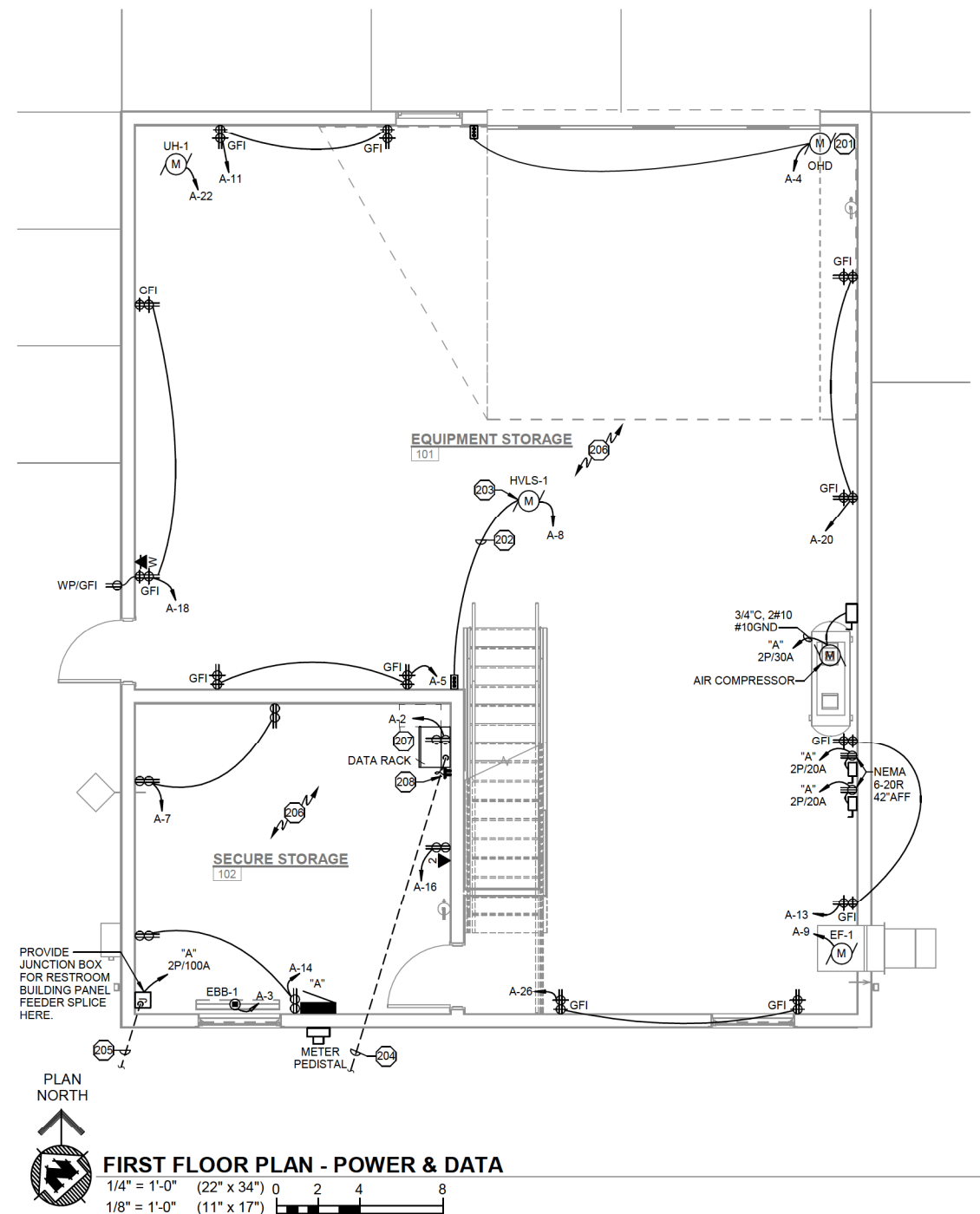
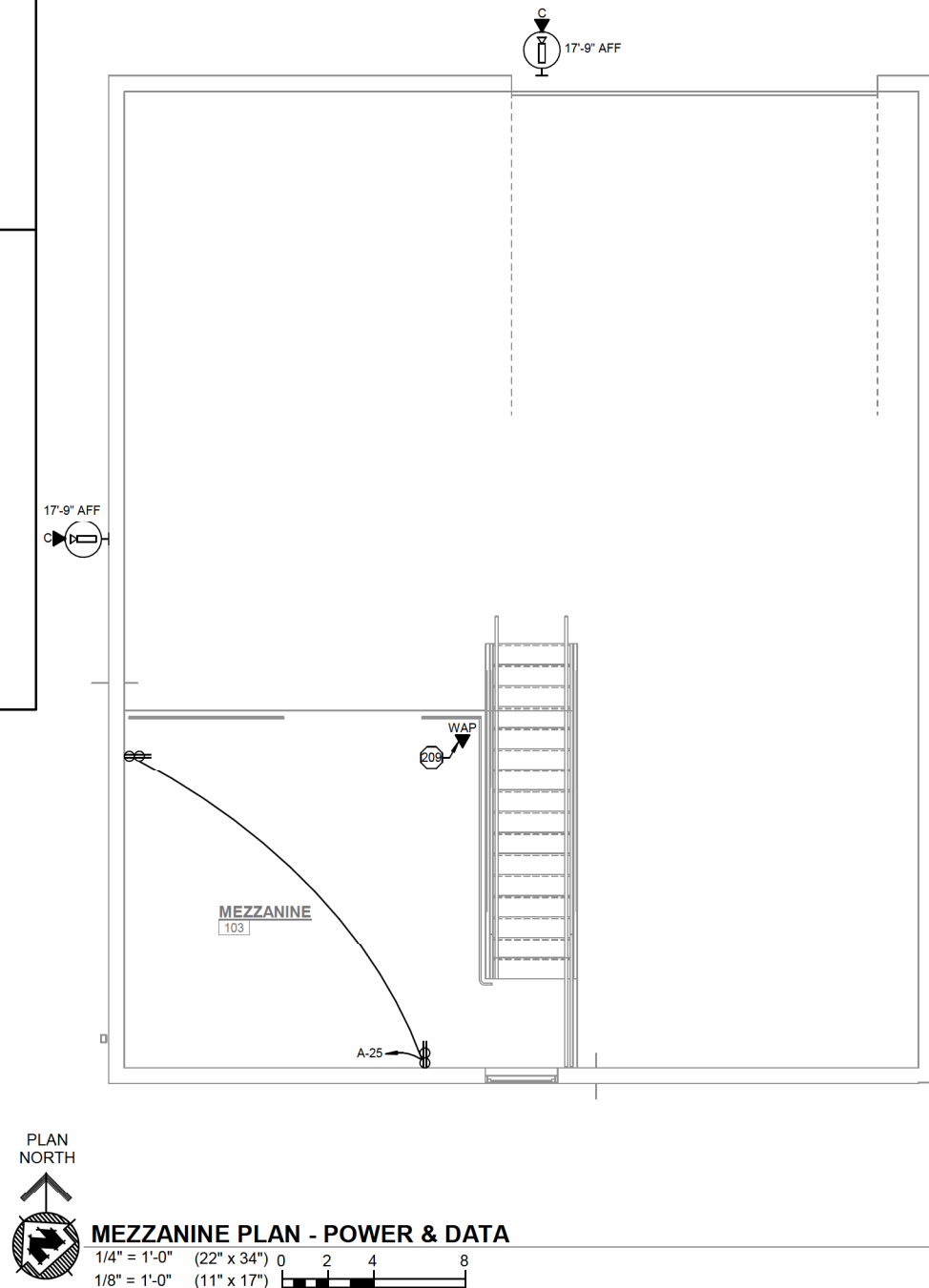


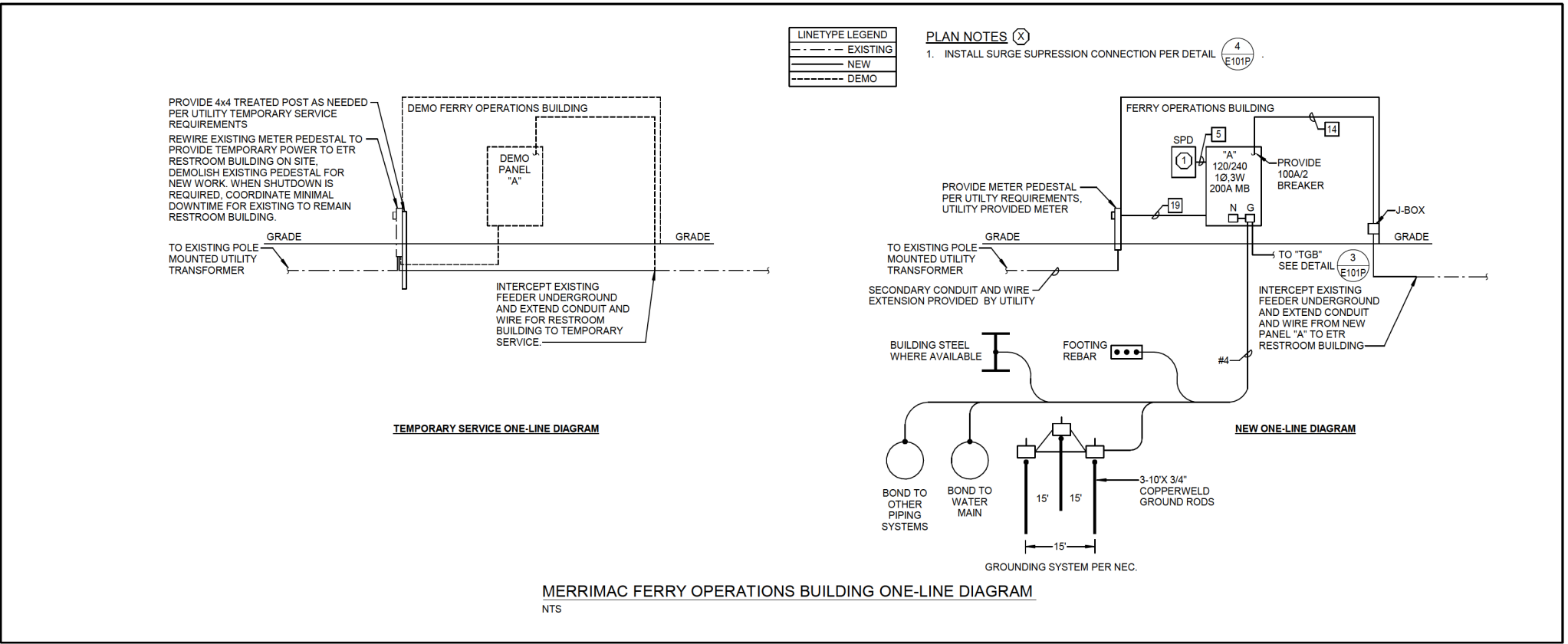
**GENERAL NOTES - POWER**

1. SALVAGE EXISTING UNDERGROUND SECONDARY CONDUITS AND EXTEND TO NEW EXTERIOR MOUNTED METER PEDESTAL.
2. PROVIDE EXTERIOR RECEPTACLES PER DETAIL (4) (E201).
3. ALL CONDUITS STUBBED OUT OF BUILDING SHALL BE DONE PER DETAIL (1) (E201).
4. CONFIRM EXACT LOCATION OF ALL OUTLETS AND DISCONNECTS WITH OWNER PRIOR TO ROUGH-IN.
5. ALL RECEPTACLES MOUNTED WITHIN 6 FEET OF SINKS SHALL BE GFI TYPE.
6. ALL LOW VOLTAGE CABLING IN AREAS WITH EXPOSED STRUCTURE SHALL BE IN CONDUIT.
7. UNLESS SHOWN OTHERWISE, ALL CONDUITS BURIED 2'-6" BELOW FINISHED GRADE.
8. BRING SITE EXCAVATION AND TOPPING BACK TO ORIGINAL CONDITION IF TRENCHING IS DONE ON COMPACTED SURFACES.
9. STARTERS FOR MECHANICAL EQUIPMENT FURNISHED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO INSTALL PER MECHANICAL CONTRACTORS REQUIREMENTS. FURNISH AND INSTALL ALL DISCONNECTS REQUIRED PER NEC.

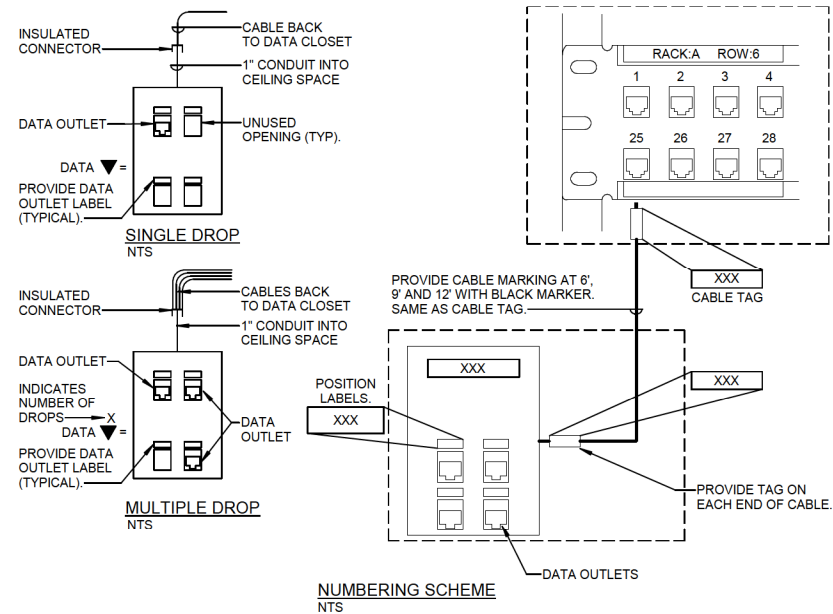
**PLAN NOTES - POWER (X)**

- 201 PROVIDE ELECTRICAL CONNECTION TO OVERHEAD DOOR. E.C. TO MOUNT AND WIRE ALL CONTROLS, SEE DETAIL 2/E201
- 202 INSTALL COMM CABLE PER MANUFACTURERS REQUIREMENTS BETWEEN FANS AND HMI CONTROLLER. COORDINATE CONTROLLER LOCATION WITH OWNER AND ARCHITECTURAL PLANS.
- 203 PROVIDE TWIST-LOC RECEPTACLE ON CEILING TO SERVE AS LOCAL DISCONNECT FOR CEILING FAN. COORDINATE WITH EQUIPMENT SUPPLIER AND OWNER TO PROVIDE PLUG BEFORE ORDERING. RECEPTACLE TO BE MOUNTED TO DECK.
- 204 PROVIDE CAT6 UNDERGROUND RATED CABLE IN 1" CONDUIT TO EXISTING RESTROOM DATA RACK. SEE CONDUIT DETAILS 1/E200. CONNECT TO EXISTING CABLE INTERNET MODEM AND PROVIDE NEW PATCH PANEL IN THE DATA RACK IN SECURE STORAGE. PENETRATE WALL IN EXISTING RESTROOM BUILDING ADJACENT TO EXISTING 'LB'S IN THE SOUTH WEST CORNER OF THE BUILDING.
- 205 REMOVE EXISTING RESTROOM PANEL FEEDER TO OUTSIDE THE BUILDING. PROVIDE NEW BREAKER IN PANEL "A" AND SPLICE EXISTING FEEDER IN IDENTIFIED J-BOX AND RE-FEED EXISTING RESTROOM BUILDING 100A PANEL FROM NEW PANEL "A".
- 206 ALL CONDUITS AND BOXES TO BE SURFACE MOUNTED IN THIS AREA.
- 207 PROVIDE DATA RACK PER DETAIL 6/E201.
- 208 PROVIDE TELECOM GROUNDING SYSTEM PER DETAIL 3/E200.
- 209 PROVIDE RECESSED BACKBOX IN CEILING WITH DATA JACK AS NOTED FOR WIRELESS ACCESS POINT.



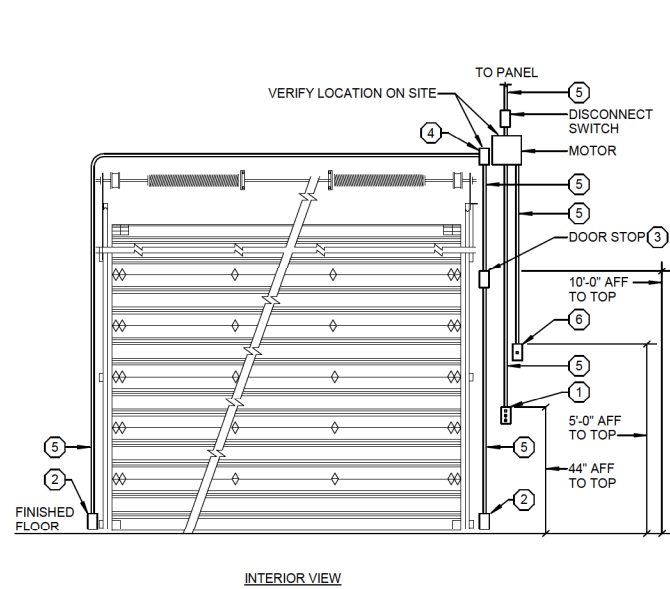


PANEL SCHEDULE - A								
TYPE: SQUARE D NQ MOUNT: SURFACE ISOLATED GROUND BUS: No GROUND BUS: Yes LOCATION: SECURE STORAGE 102				VOLTAGE: 120/240V 1P, 3W BUS AMPACITY: 200 A MAIN CIRCUIT BKR: 200 A SUB FEED LUGS: No AMPS AIC: 25 kAIC				
CKT....	TRIP/P	DESCRIPTION	A	B	DESCRIPTION	TRIP/P	CKT....	
1	20 A/1	LIGHTING	0.6 A	3.0 A	DATA RACK	20 A/1	2	
3	20 A/1	EBB-1		12.... 16....	OHD	20 A/1	4	
5	20 A/1	EQUIPMENT STORAGE RCPTS	6.0 A	6.7 A	HIGH BAY LIGHTING	20 A/1	6	
7	20 A/1	SECURE STORAGE RECEPTACLES		6.0 A	12.... HVLS FAN	20 A/1	8	
9	20 A/1	EF-1	12....	6.0 A			10	
11	20 A/1	EQUIPMENT STORAGE RCPTS		6.0 A	6.0 A	AIR COMPRESSOR	30 A/2	12
13	20 A/1	EQUIPMENT STORAGE RCPTS	6.0 A	6.0 A		SECURE STORAGE RECEPTACLES	20 A/1	14
15	20 A/2	DEDICATED 240V RCPT (GFI)		0.8 A	3.0 A	SECURE STORAGE DESK	20 A/1	16
17			0.8 A	6.0 A		EQUIPMENT STORAGE RCPTS	20 A/1	18
19	20 A/2	DEDICATED 240V RCPT (GFI)		0.8 A	6.0 A	EQUIPMENT STORAGE RCPTS	20 A/1	20
21			0.8 A	12....		UH-1	20 A/1	22
23	20 A/1	SPARE		0.0 A	0.0 A	SPARE	20 A/1	24
25	20 A/1	MEZZ. RECEPTACLES	6.0 A	6.0 A		EQUIPMENT STORAGE RCPTS	20 A/1	26
27	20 A/1	SPARE		0.0 A	0.0 A	SPARE	20 A/1	28
29	20 A/1	SPARE	0.0 A	0.0 A		SPARE	20 A/1	30
31	/1	SPACE		--	--	SPACE	/1	32
33	/1	SPACE	--	--		SPACE	/1	34
35	/1	SPACE		--	--	SPACE	/1	36
37	/1	SPACE	--	--		SPACE	/1	38
39	30 A/2	SPD		0.0 A	60....	EXISTING RESTROOM PANEL	100 A/2	40
41				16538 VA	15480 VA			42
				137.8 A	129 A			
NOTES: 42 CKT PANELBOARD WITH SERVICE ENTRANCE RATED MAIN CIRCUIT BREAKER. SEE ONELNE DIAGRAM.								
Load Classification		Connected Load	Demand Factor	Estimated...		Panel Totals		
Lighting		878 VA	125.00%	1098 VA				
Receptacles		7200 VA	100.00%	7200 VA		Total Conn. Load:	32018 VA	
Misc.		360 VA	100.00%	360 VA		Total Est. Demand:	32238 VA	
Other		14400 VA	100.00%	14400 VA		Total Conn....	133.4 A	
HVAC		1500 VA	100.00%	1500 VA		Total Est. Demand...	134.3 A	
MISC		7680 VA	100.00%	7680 VA				

**NOTES:**

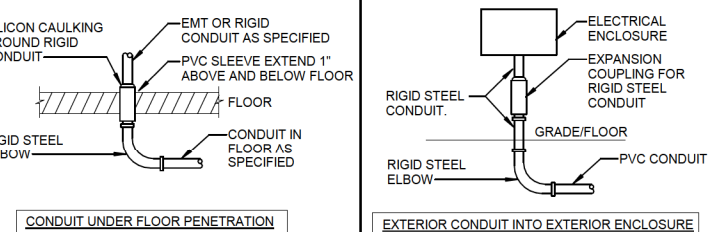
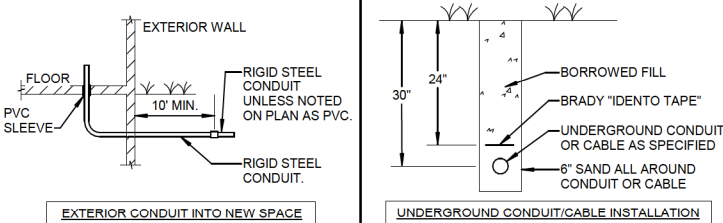
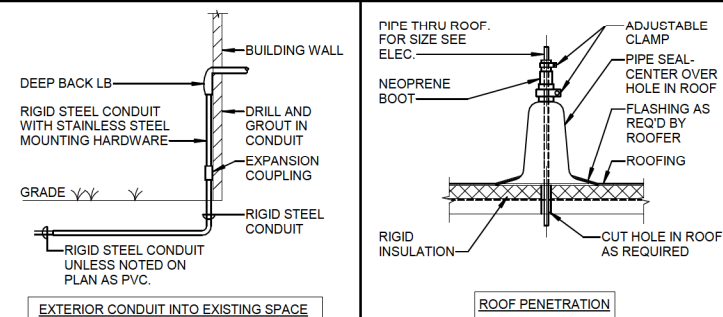
1. ALL BOXES TO BE 4" SQUARE DEEP WITH 1 OR 2-GANG RING.
2. PROVIDE DATA OUTLETS IN QUANTITY SHOWN ON DRAWINGS.
3. PROVIDE MINIMUM 4 UNIT PLATE. CLOSE ALL UNUSED OPENINGS.
4. PROVIDE OUTLET LABELING AS DIRECTED BY OWNER.
5. IF SHOWN NEXT TO ABOVE COUNTER RECEPTACLE, ASSUME DEVICE MOUNTED ABOVE COUNTER.
6. SEE FLOOR PLANS FOR OTHER DEVICES THAT MAY BE MOUNTED IN CONJUNCTION WITH DATA OUTLETS.

**3**  
**E201** TYPICAL TELECOMMUNICATIONS OUTLET CONFIGURATIONS  
SCALE: NTS

**PLAN NOTES: (X)**

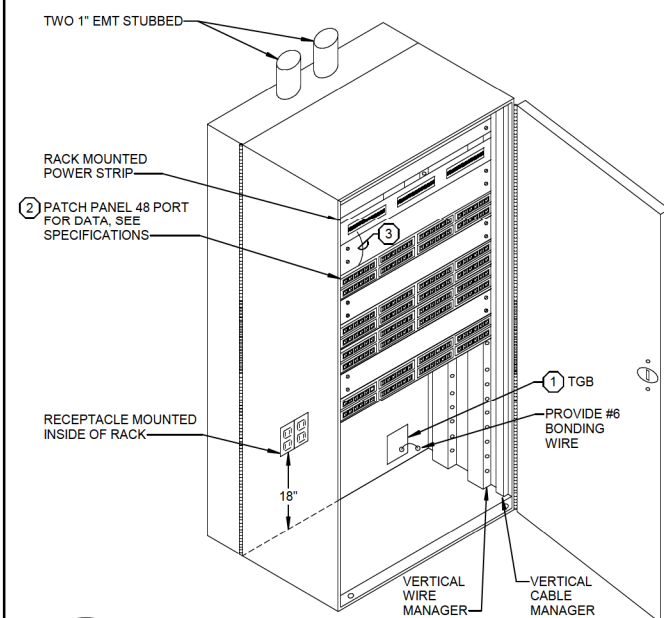
1. 1-GANG PUSH BUTTON DOOR OPENER (FBO) FLUSH MOUNTED ON BUILDING INTERIOR.
2. PROVIDE A FLUSH 1-GANG J-BOX FOR STOP EYE, WIRING BY SUPPLIER.
3. PROVIDE A FLUSH 1-GANG J-BOX FOR STOP SWITCH. WIRING BY SUPPLIER.
4. PROVIDE A FLUSH 1-GANG J-BOX FOR CONTROL, WIRING BY SUPPLIER.
5. PROVIDE A FLUSH MOUNTED 1/2".
6. PROVIDE A FLUSH MOUNTED 1-GANG J-BOX FOR DOOR CIRCUIT INDICATOR LED. WIRING BY SUPPLIER.

**2**  
**E201** OVERHEAD GARAGE DOOR DETAIL WITH INDICATOR  
SCALE: NTS

**NOTES:**

1. E.C. MAY USE PVC COATED RIGID STEEL CONDUIT IN LIEU OF RIGID CONDUIT AND PVC SLEEVE.
2. PVC SLEEVE TO BE AS SNUG AS POSSIBLE ON RIGID CONDUIT.

**1**  
**E201** CONDUIT DETAILS  
SCALE: NTS

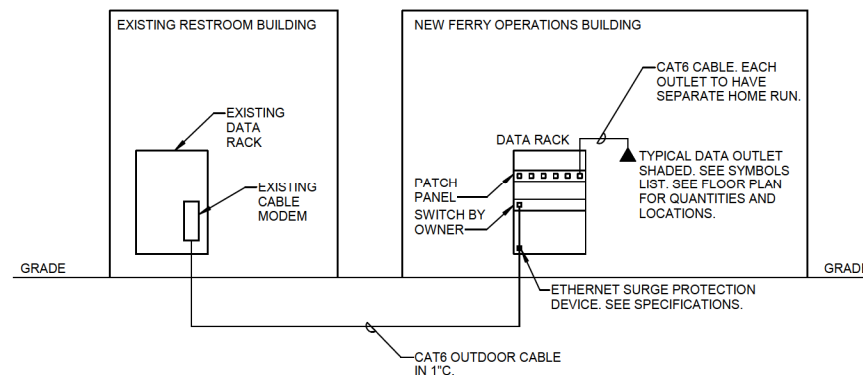
**GENERAL NOTES:**

1. THIS CONTRACTOR TO VERIFY EXACT LABELING SCHEME WITH OWNER PRIOR TO LABELING.
2. ALL DATA CABLE TO BE PLENUM RATED, SEE SPECIFICATION FOR COLOR.
3. VERIFY EXACT RACK LAYOUT WITH OWNER PRIOR TO PATCH PANEL INSTALLATION.

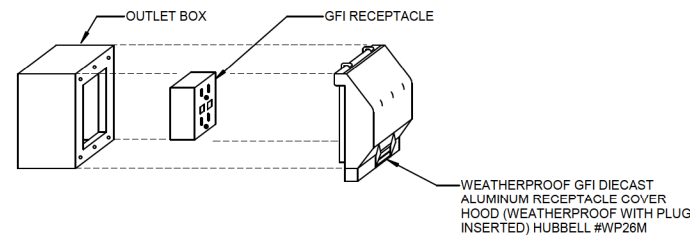
**KEY NOTES:**

1. GROUND LUG.
2. DATA PATCH PANELS, SEE POWER PLANS, PROVIDE 25% SPARE CAPACITY.
3. DATA CABLES TO OUTLETS IN ROOMS, SEE POWER SCALE PLANS FOR LOCATIONS. ROUTE ALL CABLE ABOVE LAY-IN CEILING.

**6**  
**E201** ENCLOSED WALL MOUNTED DATA RACK  
SCALE: NTS



**5**  
**E201** MERRIMAC FERRY OPERATIONS BUILDING TELECOMMUNICATIONS RISER DIAGRAM  
SCALE: NTS

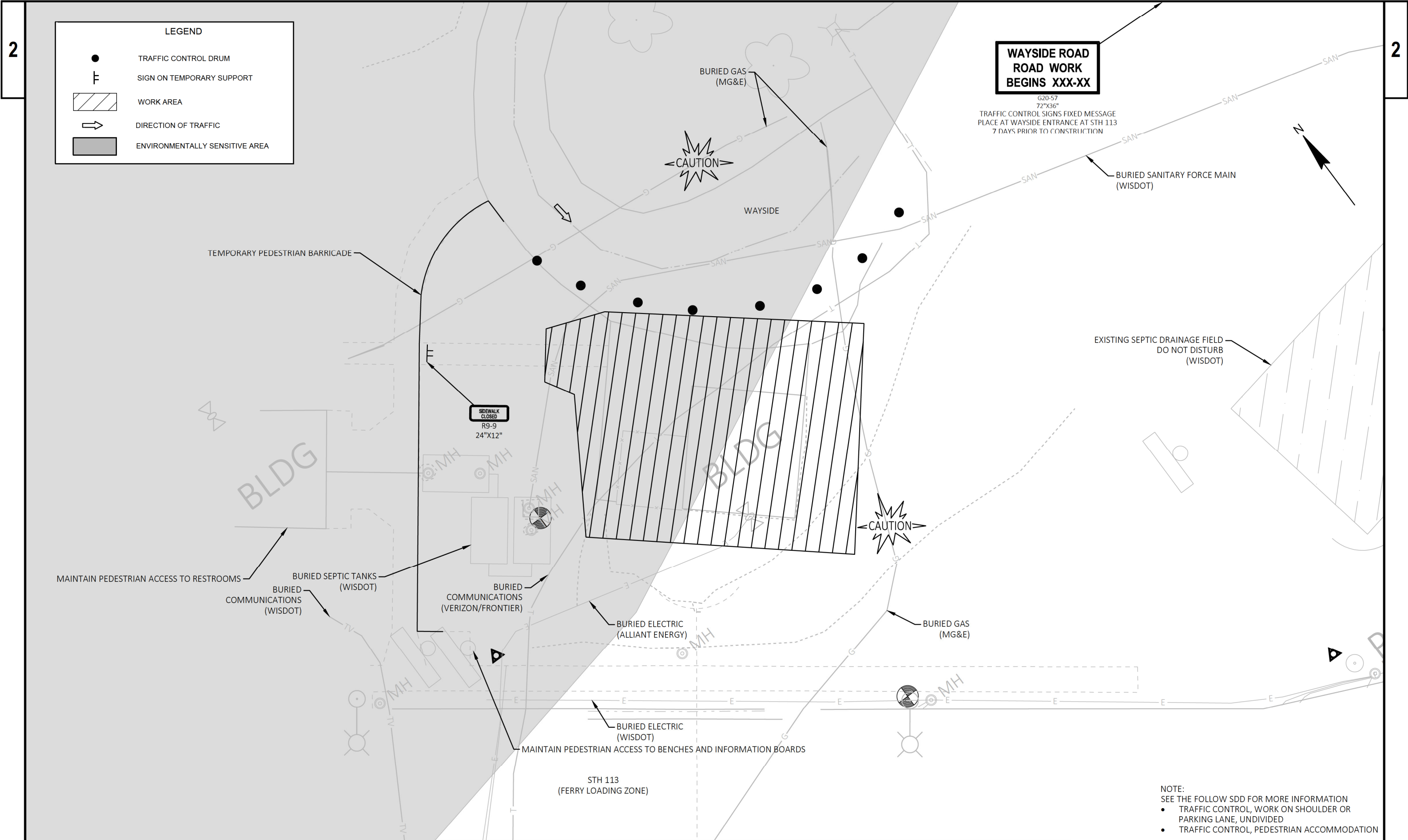
**NOTE:**

FOR ALL NEW CONSTRUCTION BOX IS TO BE FLUSH MOUNTED.

**OUTLET BOX:**

FLUSH: 3 1/2" DEEP 1-GANG MASONRY BOX SURFACE: F.S. BOX

**4**  
**E201** GFI/WP RECEPTACLE MOUNTING DETAIL  
SCALE: NTS



Estimate Of Quantities

5640-01-87

Line	Item	Item Description	Unit	Total	Qty
0002	204.0100	Removing Concrete Pavement	SY	121.000	121.000
0004	204.0155	Removing Concrete Sidewalk	SY	11.000	11.000
0006	204.0170	Removing Fence	LF	48.000	48.000
0008	204.0231	Removing Building (station) 01. STA 5+75	EACH	1.000	1.000
0010	213.0100	Finishing Roadway (project) 01. 5640-01-87	EACH	1.000	1.000
0012	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	284.000	284.000
0014	455.0605	Tack Coat	GAL	18.000	18.000
0016	465.0105	Asphaltic Surface	TON	68.000	68.000
0018	520.8700	Cleaning Culvert Pipes	EACH	1.000	1.000
0020	602.0410	Concrete Sidewalk 5-Inch	SF	180.000	180.000
0022	602.0815	Concrete Driveway 7-Inch	SY	130.000	130.000
0024	618.0100	Maintenance and Repair of Haul Roads (project) 01. 5640-01-87	EACH	1.000	1.000
0026	619.1000	Mobilization	EACH	1.000	1.000
0028	624.0100	Water	MGAL	7.000	7.000
0030	625.0500	Salvaged Topsoil	SY	468.000	468.000
0032	628.1504	Silt Fence	LF	214.000	214.000
0034	628.1520	Silt Fence Maintenance	LF	214.000	214.000
0036	628.1905	Mobilizations Erosion Control	EACH	7.000	7.000
0038	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000
0040	628.2008	Erosion Mat Urban Class I Type B	SY	468.000	468.000
0042	628.7555	Culvert Pipe Checks	EACH	2.000	2.000
0044	628.7560	Tracking Pads	EACH	1.000	1.000
0046	629.0210	Fertilizer Type B	CWT	0.400	0.400
0048	630.0140	Seeding Mixture No. 40	LB	21.000	21.000
0050	630.0500	Seed Water	MGAL	10.700	10.700
0052	642.5001	Field Office Type B	EACH	1.000	1.000
0054	643.0300	Traffic Control Drums	DAY	1,080.000	1,080.000
0056	643.0900	Traffic Control Signs	DAY	540.000	540.000
0058	643.1000	Traffic Control Signs Fixed Message	SF	18.000	18.000
0060	643.5000	Traffic Control	EACH	1.000	1.000
0062	644.1810	Temporary Pedestrian Barricade	LF	118.000	118.000
0064	650.4500	Construction Staking Subgrade	LF	119.000	119.000
0066	650.5000	Construction Staking Base	LF	119.000	119.000
0068	650.6501	Construction Staking Structure Layout (structure) 01. Ferry Operations Building	EACH	1.000	1.000
0070	650.9500	Construction Staking Sidewalk (project) 01. 5640-01-87	EACH	1.000	1.000
0072	650.9911	Construction Staking Supplemental Control (project) 01. 5640-01-87	EACH	1.000	1.000
0074	690.0150	Sawing Asphalt	LF	51.000	51.000
0076	690.0250	Sawing Concrete	LF	5.000	5.000
0078	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	800.000	800.000
0080	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	500.000	500.000
0082	SPV.0060	Special 01. Ferry Operations Building	EACH	1.000	1.000
0084	SPV.0060	Special 02. Ferry Operations Building HVAC	EACH	1.000	1.000
0086	SPV.0060	Special 03. Ferry Operations Building Electrical	EACH	1.000	1.000
0088	SPV.0060	Special 04. Grading and Shaping Site	EACH	1.000	1.000
0090	SPV.0060	Special 05. Gate System Metal 14-FT	EACH	1.000	1.000
0092	SPV.0060	Special 06. Salvage Sign (Surveillance)	EACH	1.000	1.000
0094	SPV.0060	Special 07. Construction Staking Driveways 5640-01-87	EACH	1.000	1.000
0096	SPV.0090	Special 01. Fence Wood 6-FT	LF	56.000	56.000

3

REMOVALS

BASE AGGREGATE

ASPHALT ITEMS

					204.0100 REMOVING CONCRETE PAVEMENT	204.0155 REMOVING CONCRETE SIDEWALK	204.0170 REMOVING FENCE						305.0120 BASE AGGREGATE DENSE 1 1/4- INCH TON	624.0100 WATER MGAL						455.0605 TACK COAT GAL	465.0105 ASPHALTIC SURFACE TON		
CATEGORY	STATION	TO	STATION	LOCATION	SY	SY	LF	CATEGORY	STATION	TO	STATION	LOCATION	TON	MGAL	CATEGORY	STATION	TO	STATION	LOCATION	GAL	TON		
0010	5+71	-	5+81	RT	---	11	---	0010	5+68	-	6+87	WAYSIDE ROAD	232	4	0010	5+68	-	6+87	WAYSIDE ROAD	18	68		
0010	5+80	-	6+10	RT	121	---	---	0010	5+71	-	5+78	SIDEWALK RT, CONNECT TO EXISTING	3	1									
0010	5+83	-	5+89	RT	---	---	48	0010	5+78	-	5+84	SIDEWALK RT, ALONG BUILDING	5	1					TOTAL 0010	18	68		
TOTAL 0010					121	11	48	0010	5+78	-	6+23	DRIVEWAY RT	44	1									
								TOTAL 0010					284	7									

3

CONCRETE ITEMS

MOBILIZATIONS EROSION CONTROL

CLEANING CULVERT PIPES					602.0410 CONCRETE SIDEWALK 5- INCH SF		602.0815 CONCRETE DRIVEWAY 7- INCH SY		628.1905 MOBILIZATIONS EROSION CONTROL EACH		628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH					
CATEGORY	STATION	LOCATION	520.8700 CLEANING CULVERT PIPES EACH	REMARKS	CATEGORY	STATION	TO	STATION	LOCATION			CATEGORY	LOCATION			
0010	5+88	RT	1	CMCP 18" X 109'	0010	5+71	-	5+78	RT, CONNECT TO EXISTING	67	---	0010	PROJECT 5640-01-87	7	4	
					0010	5+78	-	5+84	RT, ALONG BUILDING	113	---					
					0010	5+78	-	6+23	DRIVEWAY RT	---	130					
TOTAL 0010			1						TOTAL 0010	180	130	TOTAL 0010			7	4

EROSION CONTROL ITEMS

RESTORATION ITEMS

					628.1504	628.1520	628.7555	628.7560						625.0500	628.2008	629.0210	630.0140	630.0500
					SILT FENCE	MAINTENANCE	CHECKS	TRACKING PADS						SALVAGED	EROSION MAT	FERTILIZER TYPE	SEEDING	
CATEGORY	STATION	TO	STATION	LOCATION	LF	LF	EACH	EACH						TOPSOIL	URBAN CLASS I	B	MIXTURE NO. 40	SEED WATER
														SY	TYPE B	CWT	LB	MGAL
0010	5+65	-	5+80	RT	58	58	---	---						19	19	0.1	0.8	0.5
0010	5+65	-	6+93	LT	113	113	---	---						355	355	0.2	16.0	8.0
0010	5+88	-	---	RT	---	---	2	---						94	94	0.1	4.2	2.2
0010	---	-	---	UNDISTRIBUTED	43	43	---	1										
TOTAL 0010					214	214	2	1						468	468	0.4	21.0	10.7

TRAFFIC CONTROL ITEMS

CATEGORY	LOCATION	DAYS	TRAFFIC CONTROL DRUMS EACH	643.0300 TRAFFIC CONTROL DRUMS DAY	TRAFFIC CONTROL SIGNS EACH	643.0900 TRAFFIC CONTROL SIGNS DAY	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE SF	644.1810 TEMPORARY PEDESTRIAN BARRICADE LF
0010	PROJECT 5640-01-87	135	8	1,080	4	540	18	118
TOTAL 0010				1,080		540	18	118

SAWING ITEMS

CATEGORY	STATION	LOCATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF
0010	5+68	WAYSIDE ROAD	21	---
0010	5+71	RT, SIDEWALK	---	5
0010	6+87	WAYSIDE ROAD	30	---
TOTAL 0010			51	5

GATE & FENCE ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	SPV.0060.05 SPECIAL (05. GATE SYSTEM METAL 14-FT) EACH	SPV.0090.01 SPECIAL (01. FENCE WOOD 6- FT) LF
0010	6+00	-	6+19	RT	1	56
TOTAL 0010					1	56

STAKING ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5000 CONSTRUCTION STAKING BASE LF
0010	5+68	-	6+87	WAYSIDE ROAD	119	119
TOTAL 0010					119	119

GRADING AND SHAPING SITE

CATEGORY	LOCATION	SPV.0060.04 SPECIAL (04. GRADING AND SHAPING SITE) EACH	FOR INFORMATION ONLY EXCAVATION COMMON CY	FILL CY
0010	PROJECT 5640-01-87	1	218	7
TOTAL 0010		1		

SALVAGE SIGN (SURVEILLANCE)

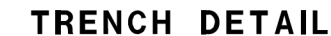
CATEGORY	STATION	LOCATION	SPV.0060.06  SPECIAL (06. SALVAGE SIGN (SURVEILLANCE)) EACH
0010	5+88	RT	1
TOTAL 0010			1

Standard Detail Drawing List

08E09-06	SILT FENCE
08E14-01	TRACKING PAD
08E15-01	CULVERT PIPE CHECK
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-09A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C12-09B	TRAFFIC CONTROL, LANE CLOSURE WITH AUTOMATED FLAGGER ASSISTANCE DEVICE
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D30-10A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-10B	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-10C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-10D	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-10E	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-10F	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-10G	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-10H	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-10I	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-10J	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-10K	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-10L	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION



- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- ③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1½" X 1½" OF OAK OR HICKORY.
- ④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- ⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS: A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.

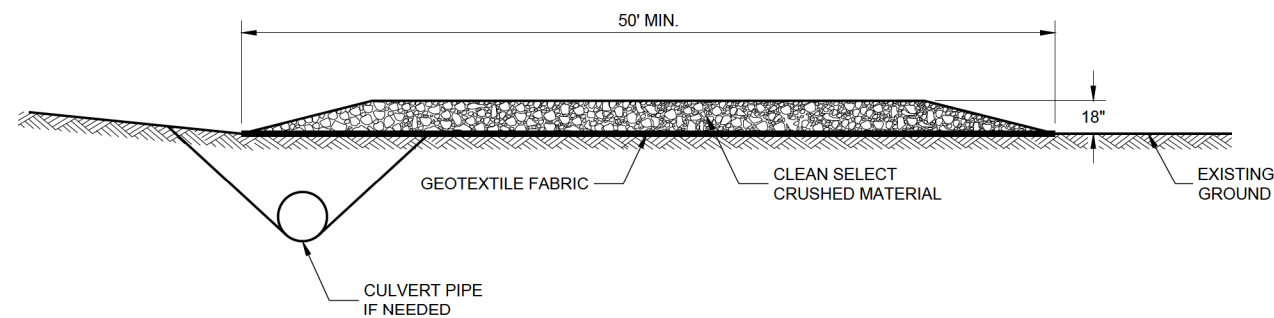
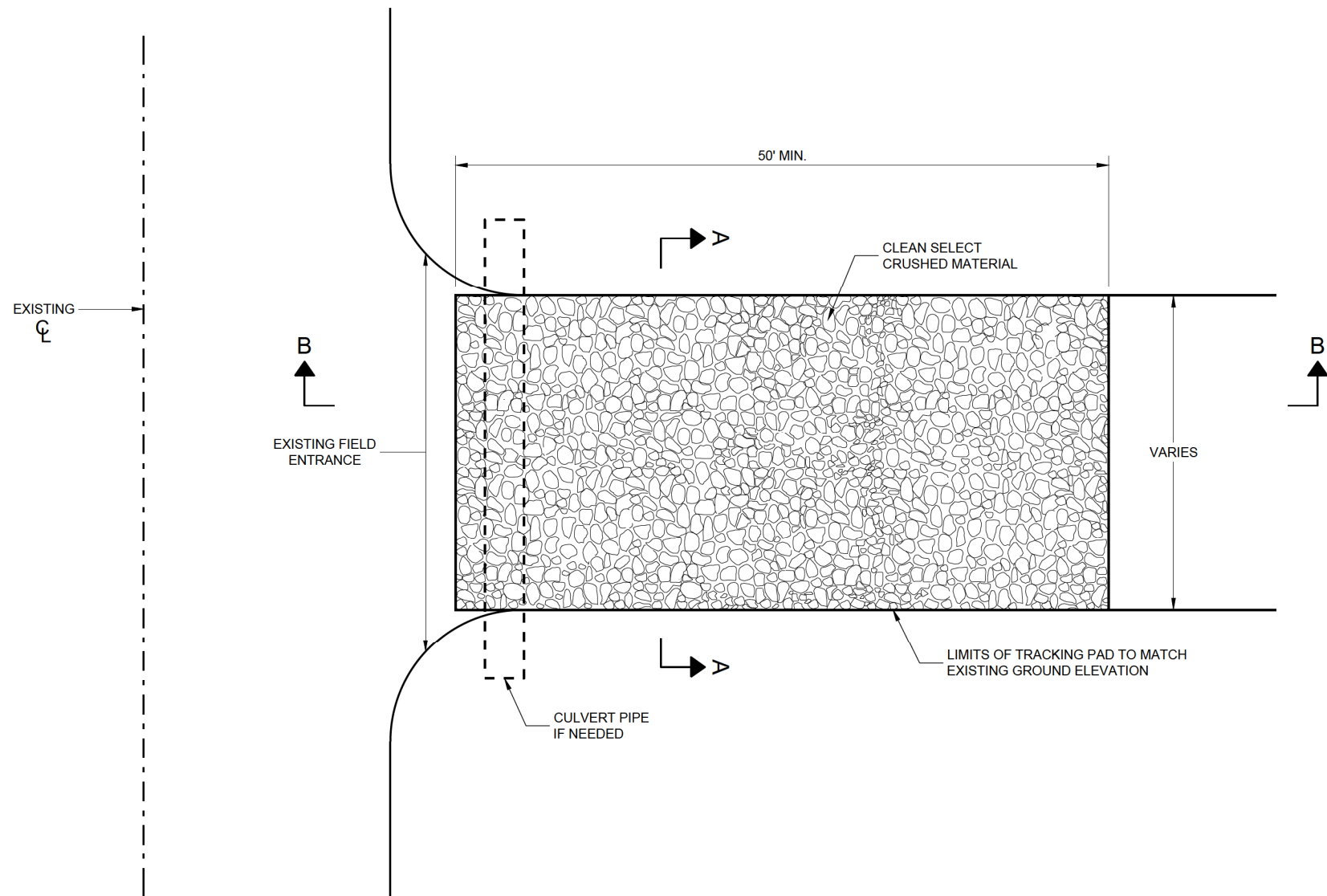


SILT FENCE

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
4-29-05 /S/ Beth Connolly  
DATE CHIEF ROADWAY DEVELOP 29 INEER

FHWA



SECTION B - B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

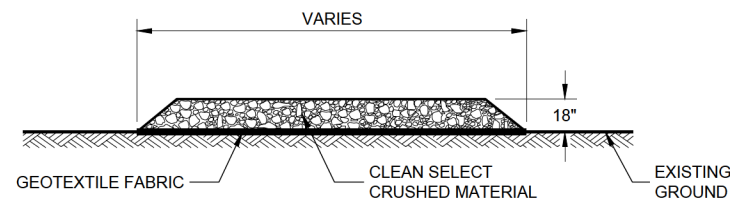
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



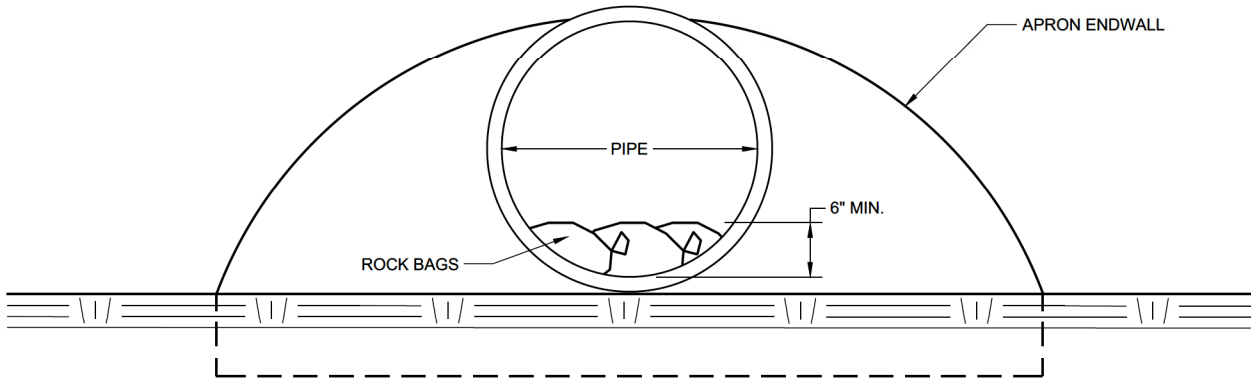
SECTION A - A

TRACKING PAD

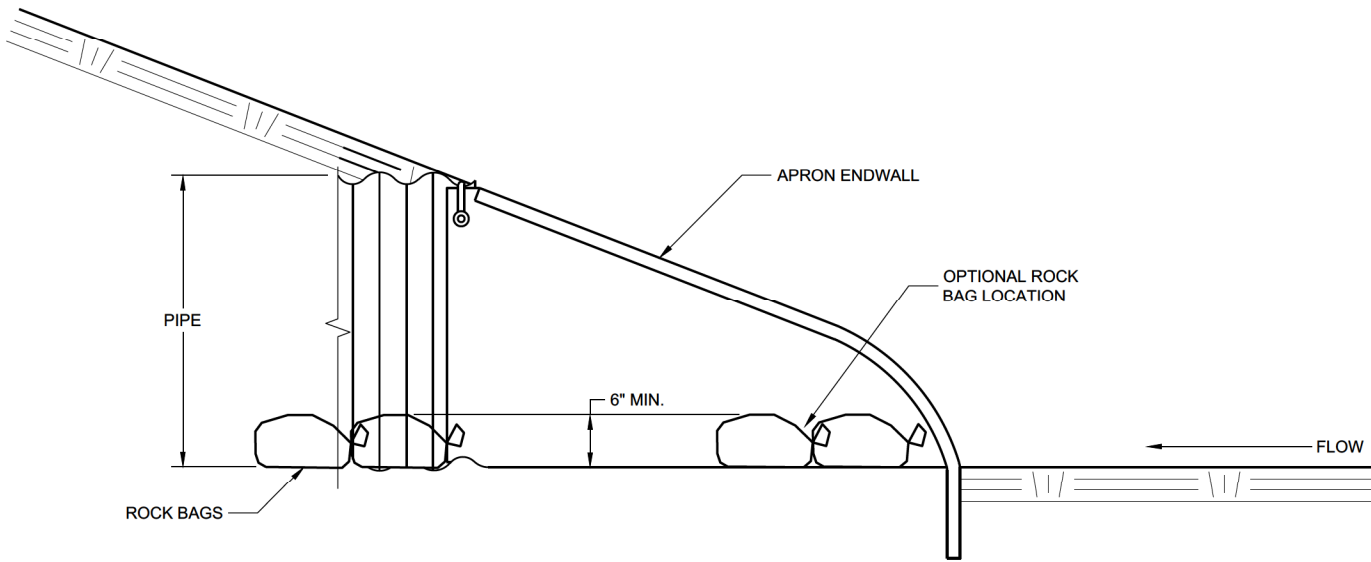
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
3/24/2011  
DATE  
/S/ Jerry H. Zogg  
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA



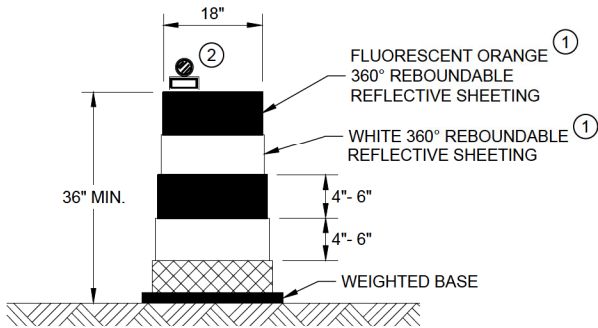
END VIEW



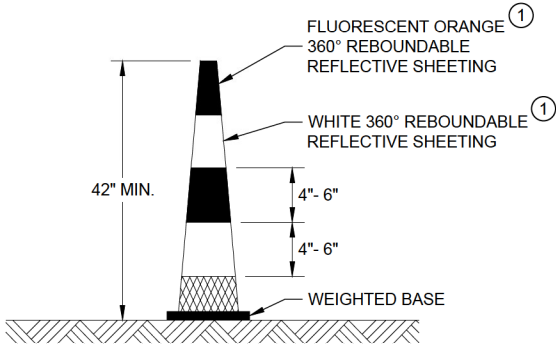
SIDE VIEW

**CULVERT PIPE CHECK**  
(INSTALL ON INLET END ONLY)

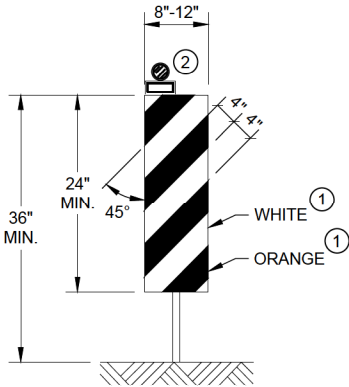
<b>CULVERT PIPE CHECK</b>	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2019 DATE	/S/ Daniel Schave EROSION CONTROL ENGI 31
FHWA	



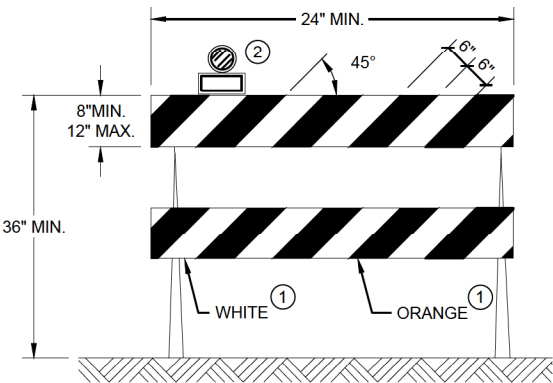
**DRUM**  
BALLAST WIDTHS  
RANGE FROM 24"-36"



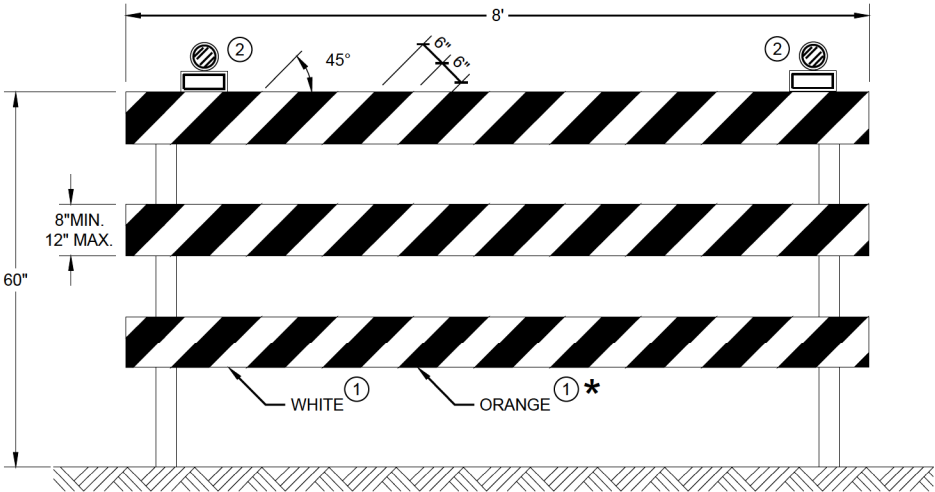
**42" CONE**  
DO NOT USE IN TAPERS  
½ SPACING OF DRUMS  
BALLAST WIDTHS  
RANGE FROM 14"-20"



**VERTICAL PANEL**  
THE STRIPES SHALL SLOPE DOWNWARD TO  
THE TRAFFIC SIDE FOR CHANNELIZATION.



**TYPE II BARRICADE**  
FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES  
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD  
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



**TYPE III BARRICADE**  
IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP  
TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.  
\* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

**GENERAL NOTES**






- ① REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- ② LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.

**CHANNELIZING DEVICES  
DRUMS, CONES, BARRICADES  
AND VERTICAL PANELS**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
November 2022 /S/ Andrew Heidtke  
DATE WORK ZONE ENGINEER 32  
FHWA

LEGEND

-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  TEMPORARY PORTABLE RUMBLE STRIP ARRAY
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGING

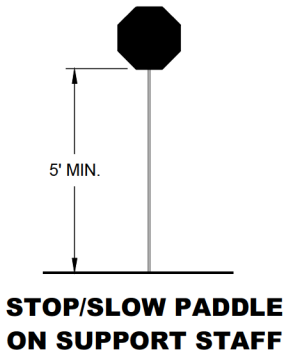
FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

- ① FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
- ② SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

TEMPORARY PORTABLE RUMBLE STRIPS

- UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.
- ③ EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER
- ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FROM THE APPROVED PRODUCTS LIST.
- INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.
- PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.
- DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.

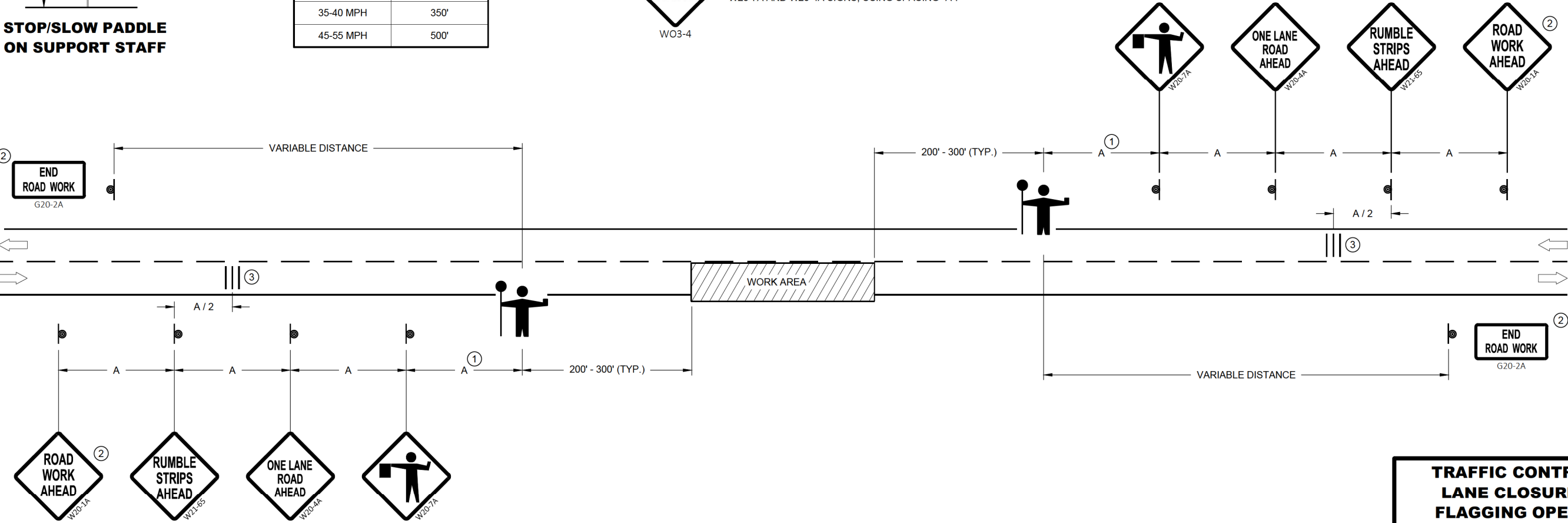


SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



USE OF W03-4 SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING "A".










**TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
May 2022 /S/ Andrew Heidtke  
DATE WORK ZONE ENGINEER 33

FHWA

GENERAL NOTES

-  SIGN ON PERMANENT SUPPORT
-  TRAFFIC CONTROL CONE 42-INCH
-  TRAFFIC CONTROL DRUM
-  TEMPORARY PORTABLE RUMBLE STRIP ARRAY
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD)

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGING

IF THE AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD) STOPS WORKING, FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

- ① SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.
- ② IF FLAGGERS ARE PHYSICALLY NEEDED TO FLAG, REPLACE WO3-4 SIGNS WITH W20-7A SIGNS.

TEMPORARY PORTABLE RUMBLE STRIPS

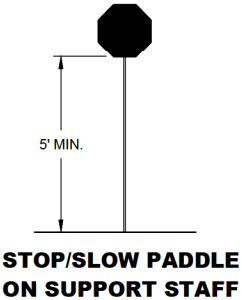
UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FROM THE APPROVED PRODUCTS LIST.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

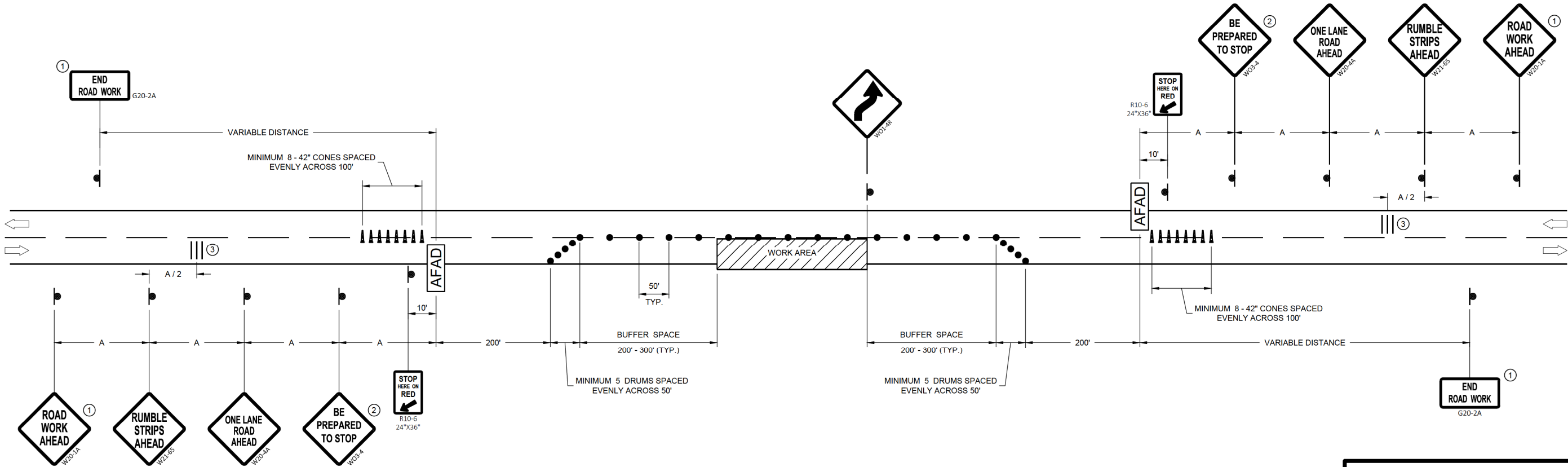
DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.

- ③ EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSELY AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER.



**SIGN AND TEMPORARY RUMBLE  
STRIP ARRAY SPACING TABLE**

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'







**TRAFFIC CONTROL, LANE  
CLOSURE WITH AUTOMATED  
FLAGGER ASSISTANCE DEVICE**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
May 2022 /S/ Andrew Heidtke  
DATE WORK ZONE ENGINEER 34  
FHWA

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  TRAFFIC CONTROL DRUM
-  DIRECTION OF TRAFFIC
-  WORK ZONE

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

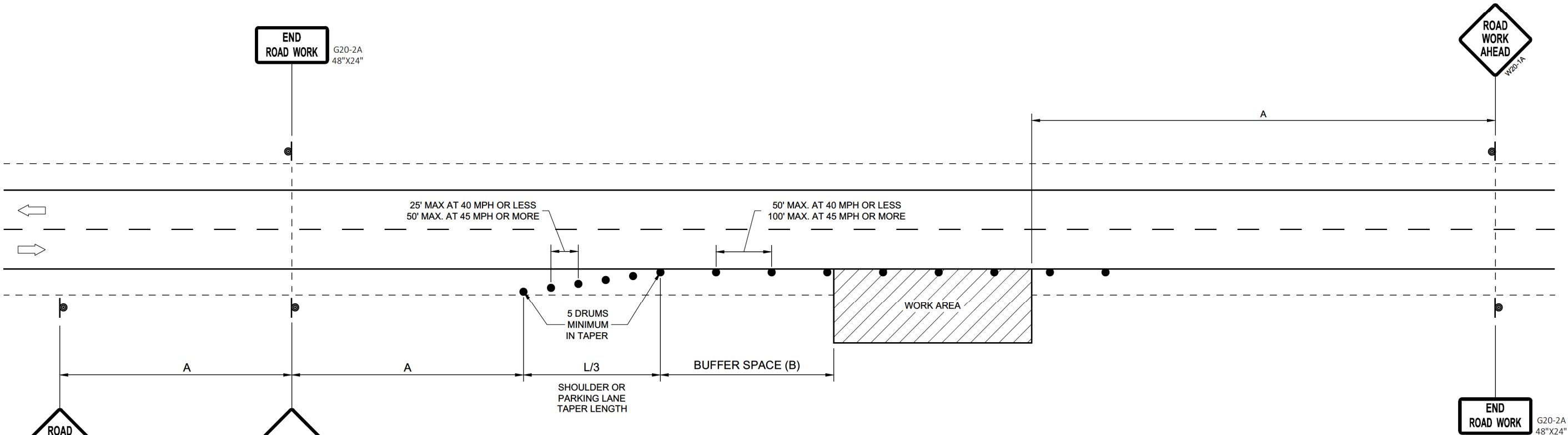
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.

6

6



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHOULDER TAPER L / 3 W, LATERAL OFFSET (FT)						BUFFER SPACE (B) FEET
		3	4	5	6	7	8	
25	200'	10	14	17	21	24	28	55
30	200'	15	20	25	30	35	40	85
35	350'	20	27	34	40	47	54	120
40	350'	26	35	44	53	62	70	170
45	500'	45	59	74	89	104	119	220
50	500'	50	66	83	99	116	132	280
55	500'	54	73	91	109	127	145	335'

TRAFFIC CONTROL, WORK ON  
SHOULDER OR PARKING LANE,  
UNDIVIDED ROADWAY

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

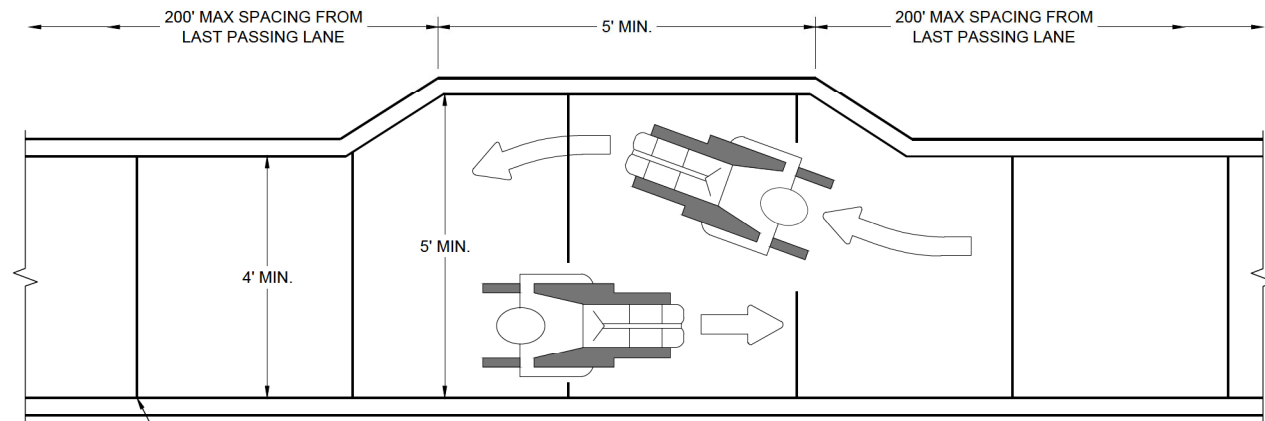
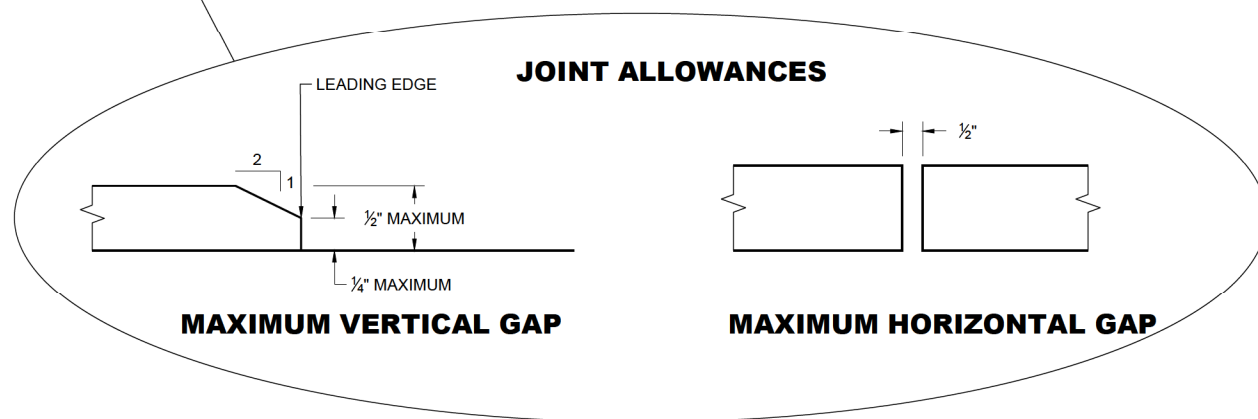
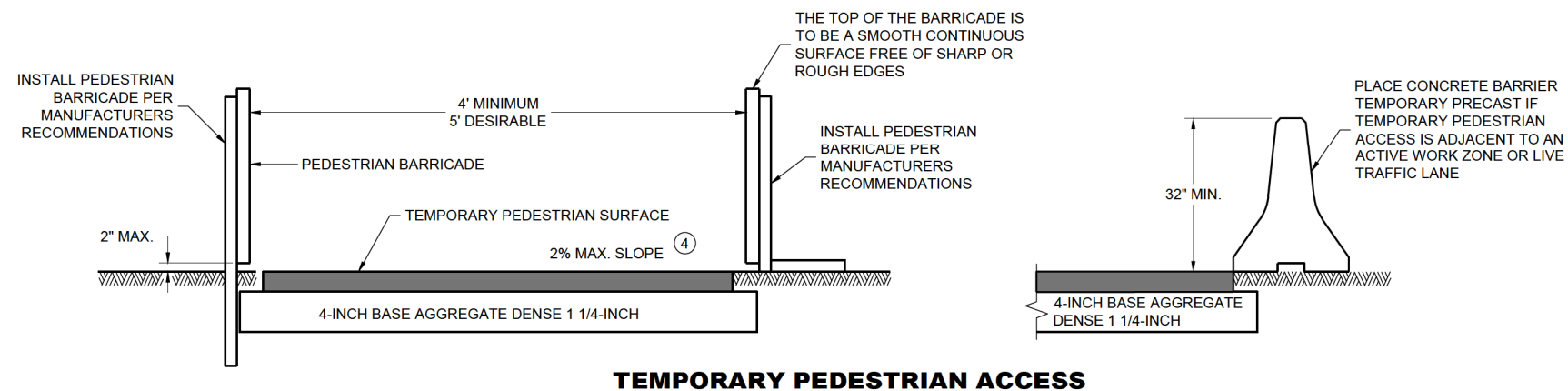
APPROVED  
May 2020  
DATE

/S/ Andrew Heidtke  
STATEWIDE WORK ZONE T  
SAFETY ENGINEER 35

FHWA

SDD 15D28 - 04

SDD 15D28 - 04

**NARROW SIDEWALK PASSING DETAIL****MAXIMUM VERTICAL GAP****MAXIMUM HORIZONTAL GAP****TEMPORARY PEDESTRIAN ACCESS****GENERAL NOTES**

BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

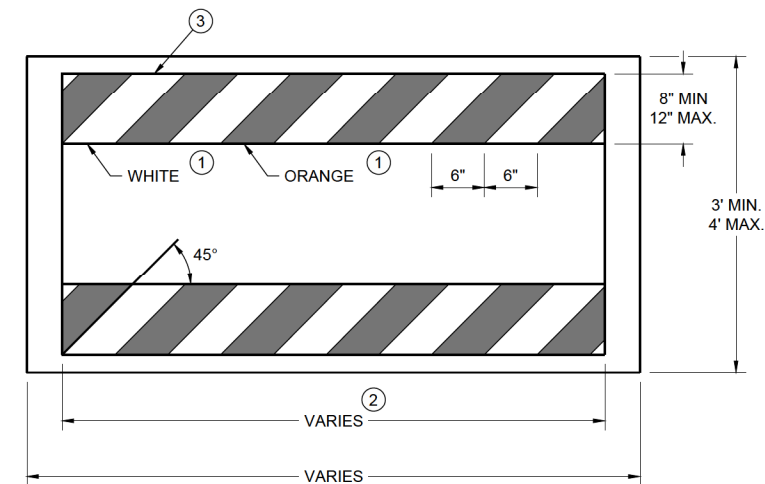
① REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

② SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.

③ PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.

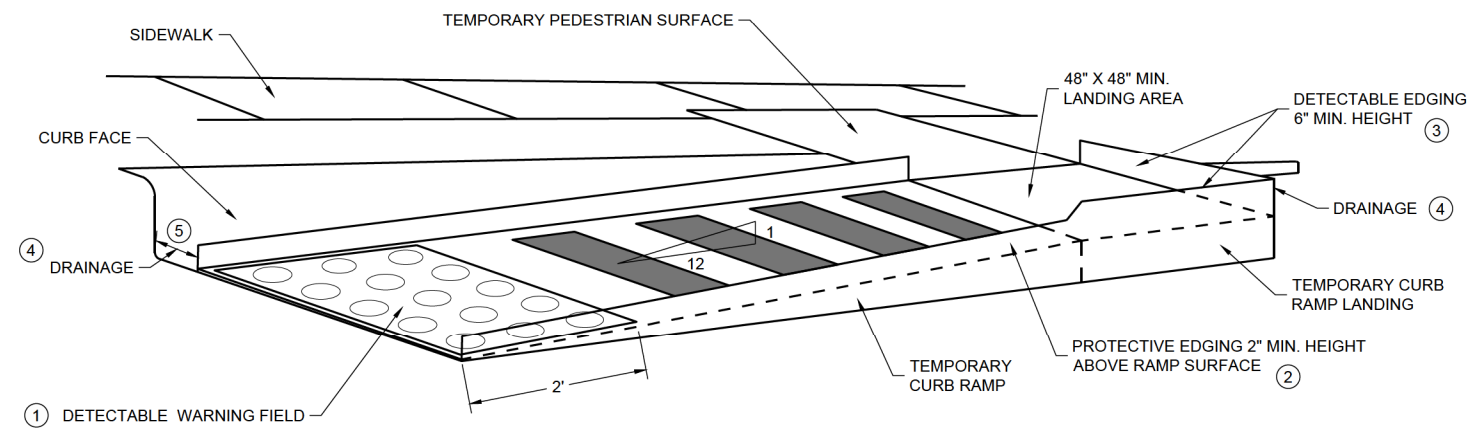
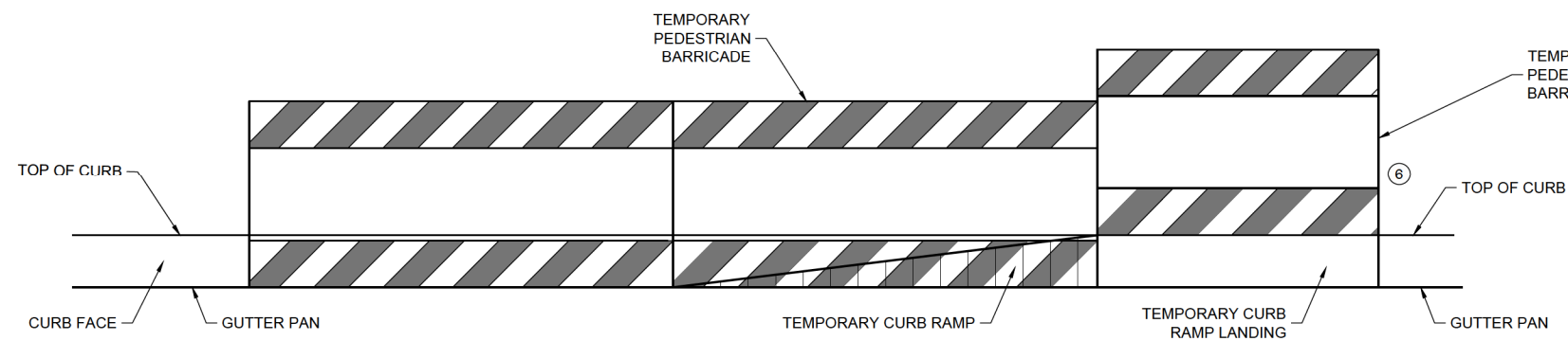
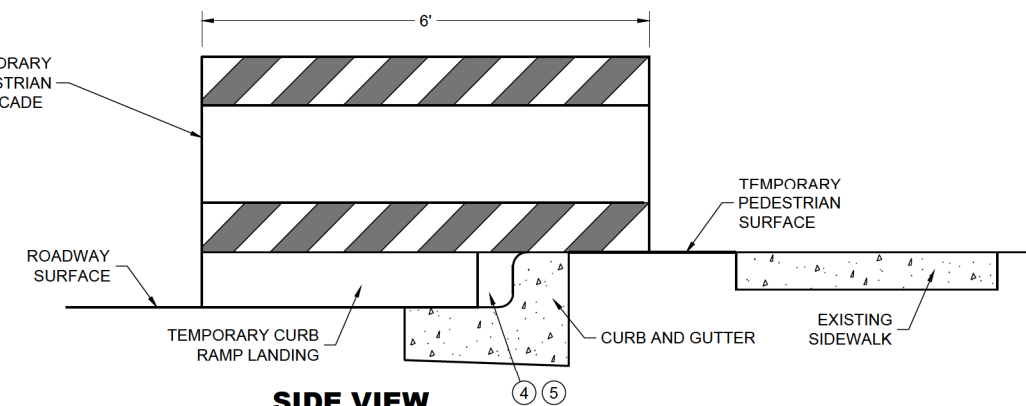
★ USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.

④ WHEN THE TEMPORARY PEDESTRIAN ACCESS ROUTE RUNS PARALLEL ON THE ROADWAY SURFACE, THE MAXIMUM CROSS SLOPE WILL MATCH THE EXISTING ROADWAY CROSS SLOPE.

**TEMPORARY PEDESTRIAN BARRICADE \***

**TRAFFIC CONTROL,  
PEDESTRIAN  
ACCOMMODATION**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

**PERSPECTIVE VIEW****FRONT VIEW****TEMPORARY CURB RAMP PARALLEL TO CURB****SIDE VIEW****GENERAL NOTES**

CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

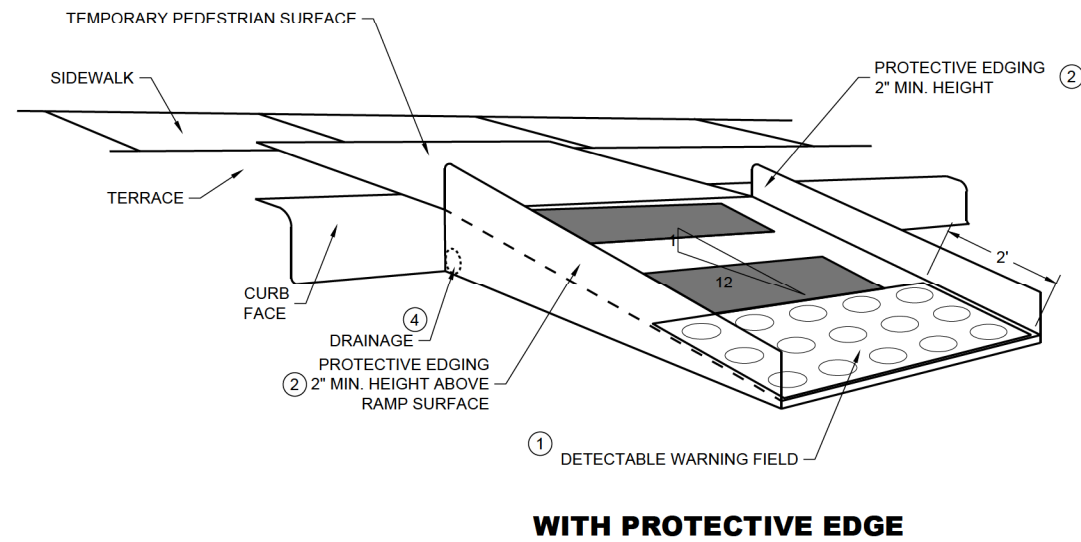
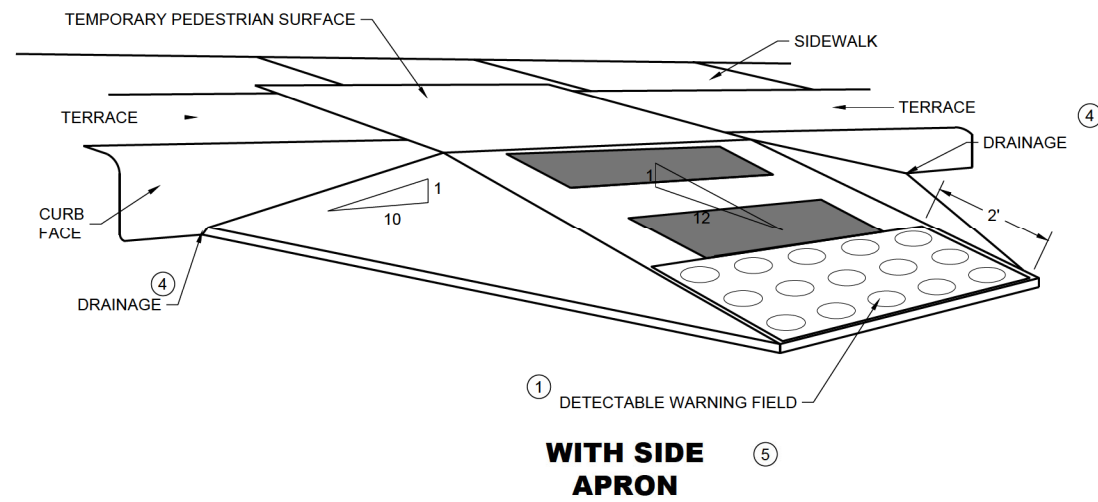
CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

- ① INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE PLANS.
- ② PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
- ③ DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
- ④ DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
- ⑤ ENSURE CURB RAMP IS OUT OF THE GUTTER PAN.
- ⑥ IF ONLY PART OF THE END PANEL OF TEMPORARY PEDESTRIAN BARRICADE PANEL IS NEEDED, EXTEND EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL HERE.

**TRAFFIC CONTROL,  
PEDESTRIAN  
ACCOMMODATION**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION



**TEMPORARY CURB RAMP PERPENDICULAR TO CURB**

## GENERAL NOTES

CURB RAMPS SHALL BE 48" MINIMUM WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

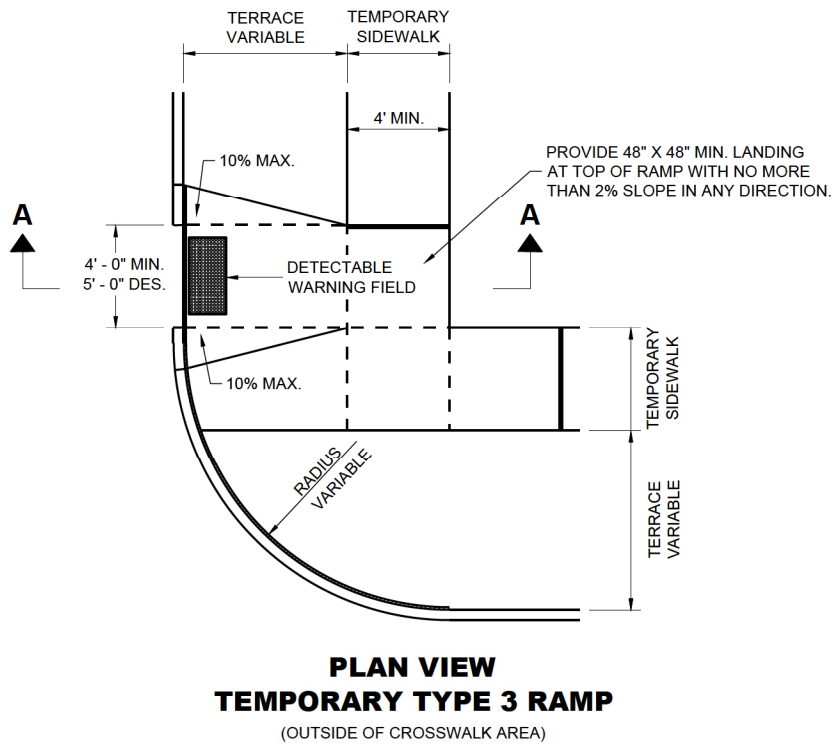
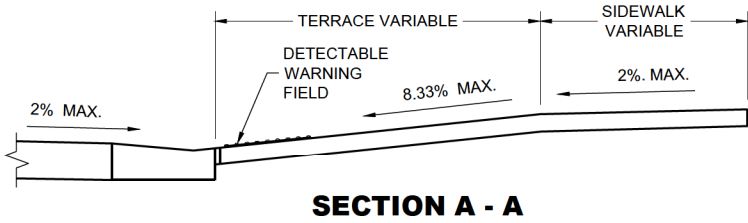
CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.

LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

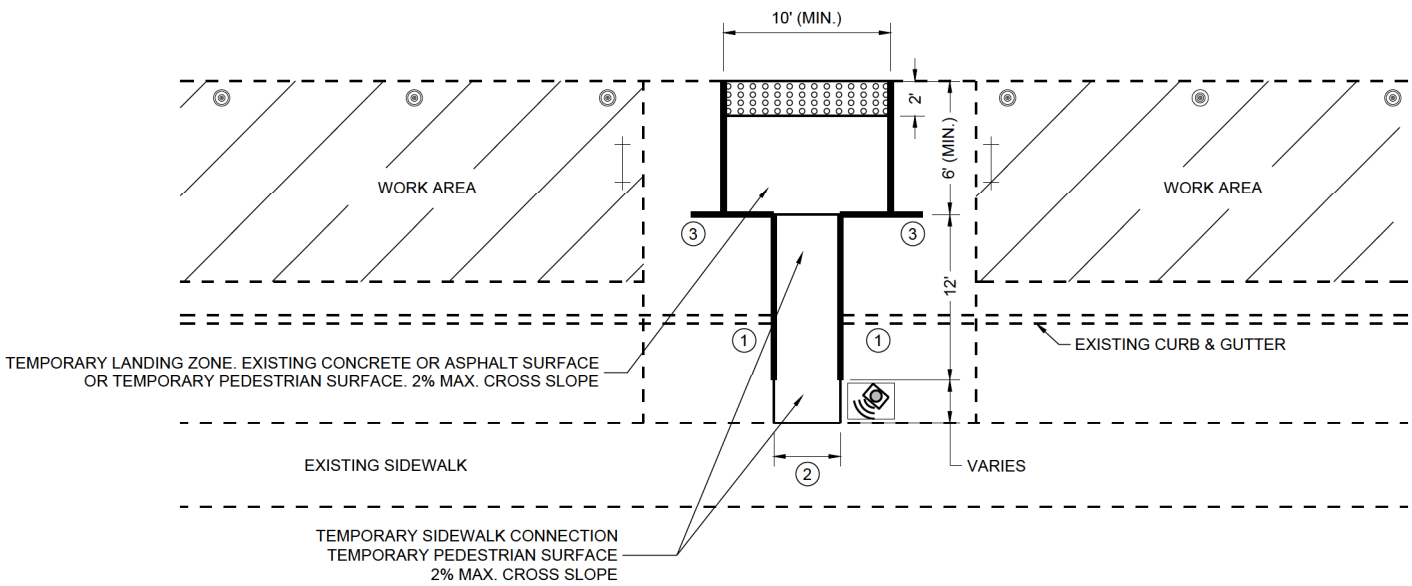
CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

- ① INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE PLANS
- ② PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
- ③ DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
- ④ DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
- ⑤ CAN ONLY BE USED FOR RAMPS WITH 6" OR LESS OF VERTICAL CHANGE.

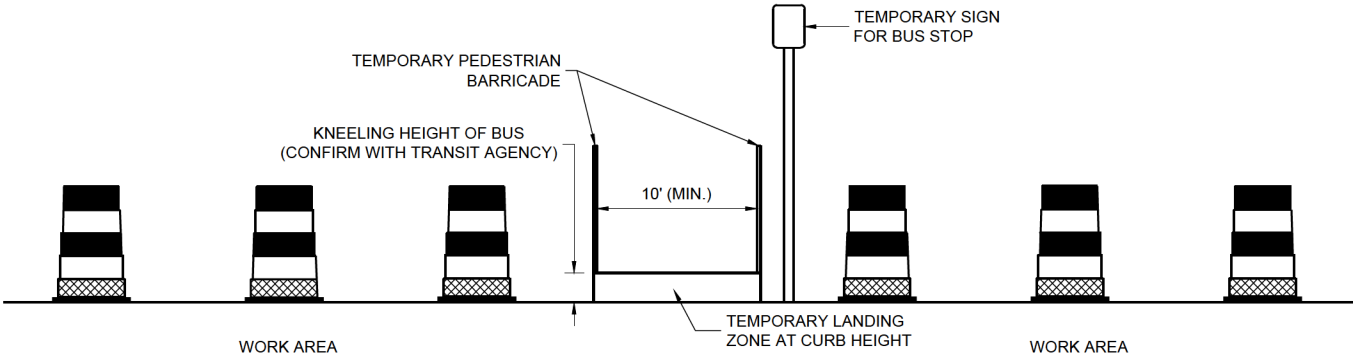
GENERAL NOTES



TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2023 DATE	/S/ Andrew Heidtke <position>
FHWA	



PLAN VIEW



PROFILE VIEW  
TEMPORARY BUS STOP PAD

GENERAL NOTES

- TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.
- NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.
- PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
- DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
- LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.
- CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".
- CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

- ① DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
- ② 5' WIDE MIN. WITH TEMPORARY PEDESTRIAN BARRICADE; 10' WIDE MIN. WITHOUT TEMPORARY PEDESTRIAN BARRICADE.
- ③ PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE INTO THIS SPACE.

LEGEND

- ⊙ TRAFFIC CONTROL DRUM
- ⊢ TYPE III BARRICADE
- TEMPORARY PEDESTRIAN BARRICADE
- ⊞ TEMPORARY DETECTABLE WARNING FIELD
- ▨ WORK AREA
- ⊞ TEMPORARY AUDIBLE MESSAGE DEVICE (EXACT PLACEMENT BASED UPON FIELD CONDITIONS)

LEGEND

- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC
- TEMPORARY AUDIBLE MESSAGE DEVICE (EXACT PLACEMENT BASED UPON FIELD CONDITIONS)

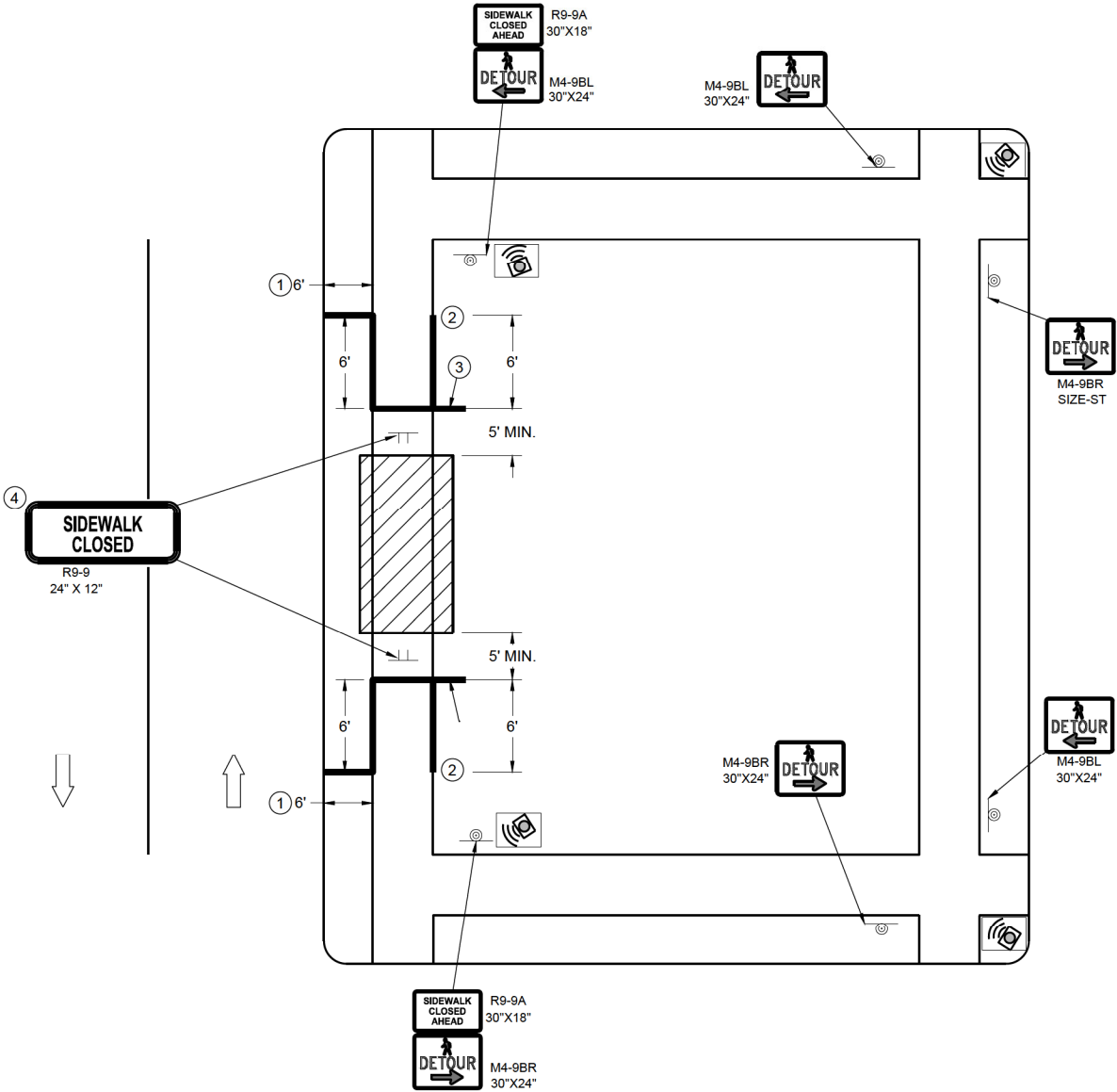
GENERAL NOTES

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

SIGNS THAT REMAIN IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

PLACE TEMPORARY PEDESTRIAN BARRICADE TO FIT FIELD CONDITIONS, AVOIDING CONFLICTS WITH DRIVEWAYS AND OTHER EXISTING FEATURES.

- IF TERRACE IS LESS THAN 6 FEET WIDE, OMIT TEMPORARY PEDESTRIAN BARRICADE FROM THE SIDEWALK TO THE CURB.
- PLACE BARRICADE CLOSURE SO THAT THE TEMPORARY PEDESTRIAN BARRICADE END IS AT THE LAST OPEN SIDEWALK ACCESS TO RESIDENCES OR BUSINESSES BEFORE THE SIDEWALK CLOSURE.
- IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
- MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.



SIDEWALK DETOUR, SIDEWALK ONLY ON ONE SIDE

TRAFFIC CONTROL,  
PEDESTRIAN ACCOMMODATION

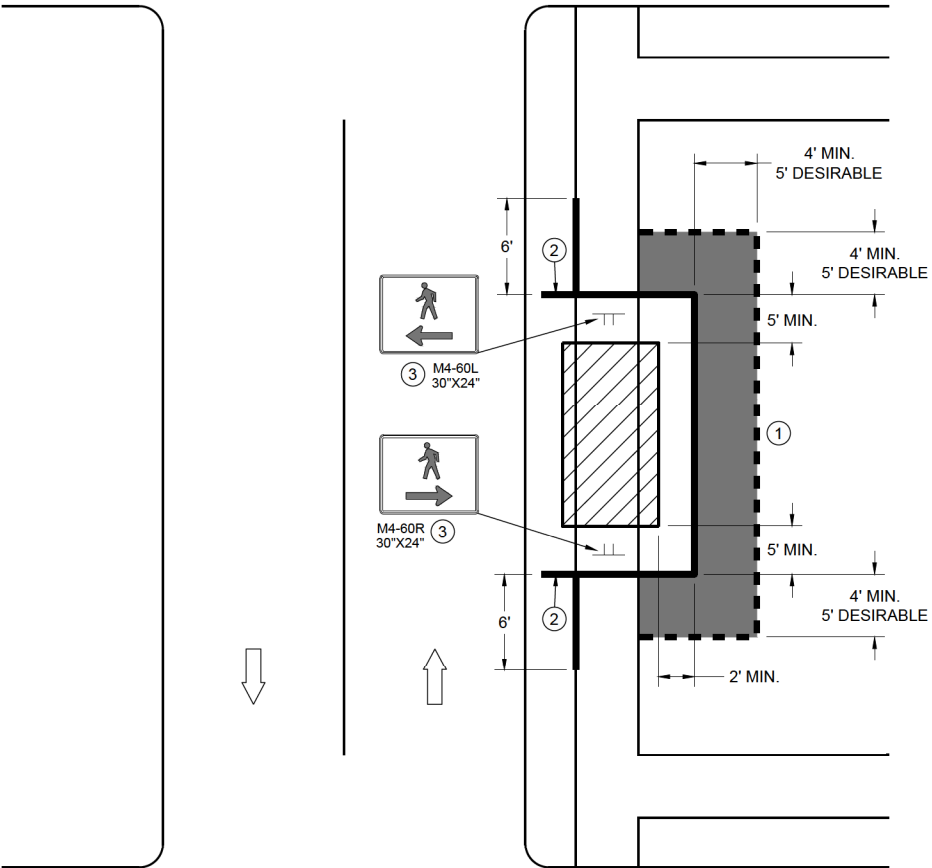
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

LEGEND

- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- UNDER PEDESTRIAN TRAFFIC
- TEMPORARY PEDESTRIAN SURFACE
- TEMPORARY PEDESTRIAN BARRICADE
- OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

GENERAL NOTES

- TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.
- WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.
- SIGNS THAT REMAIN IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.
- 1 USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.
  - 2 IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
  - 3 MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.



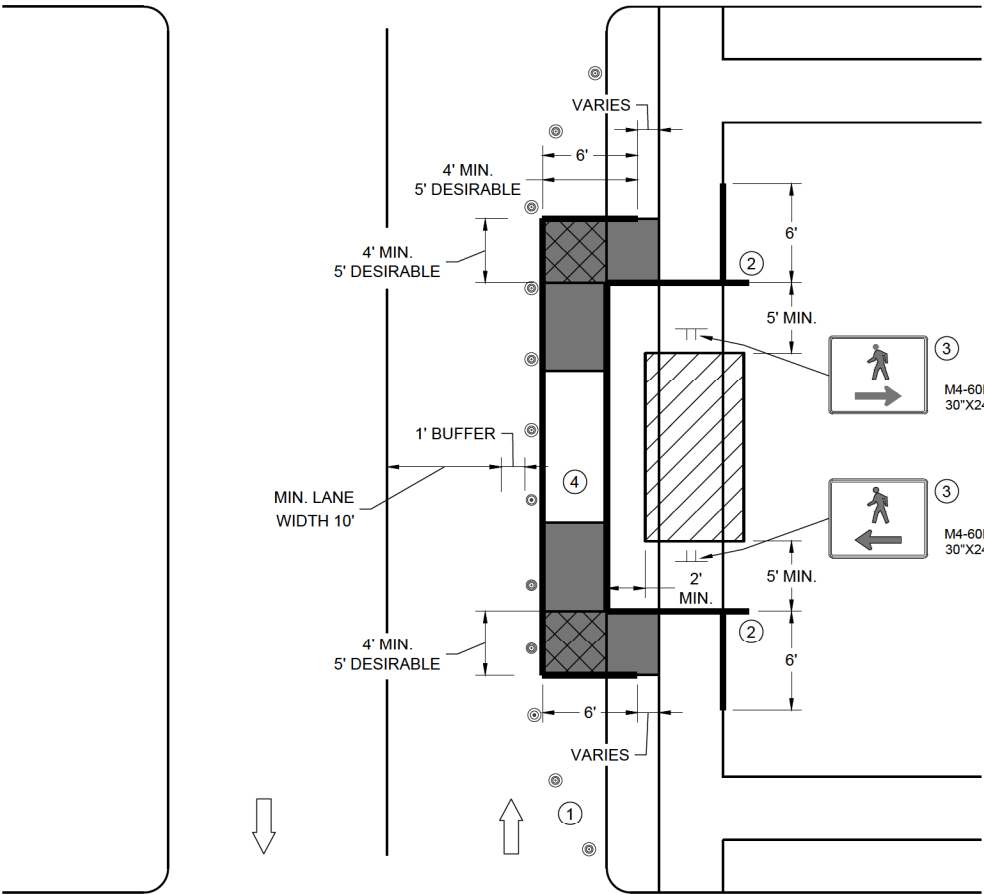
SIDEWALK BYPASS  
SINGLE SIDE

LEGEND

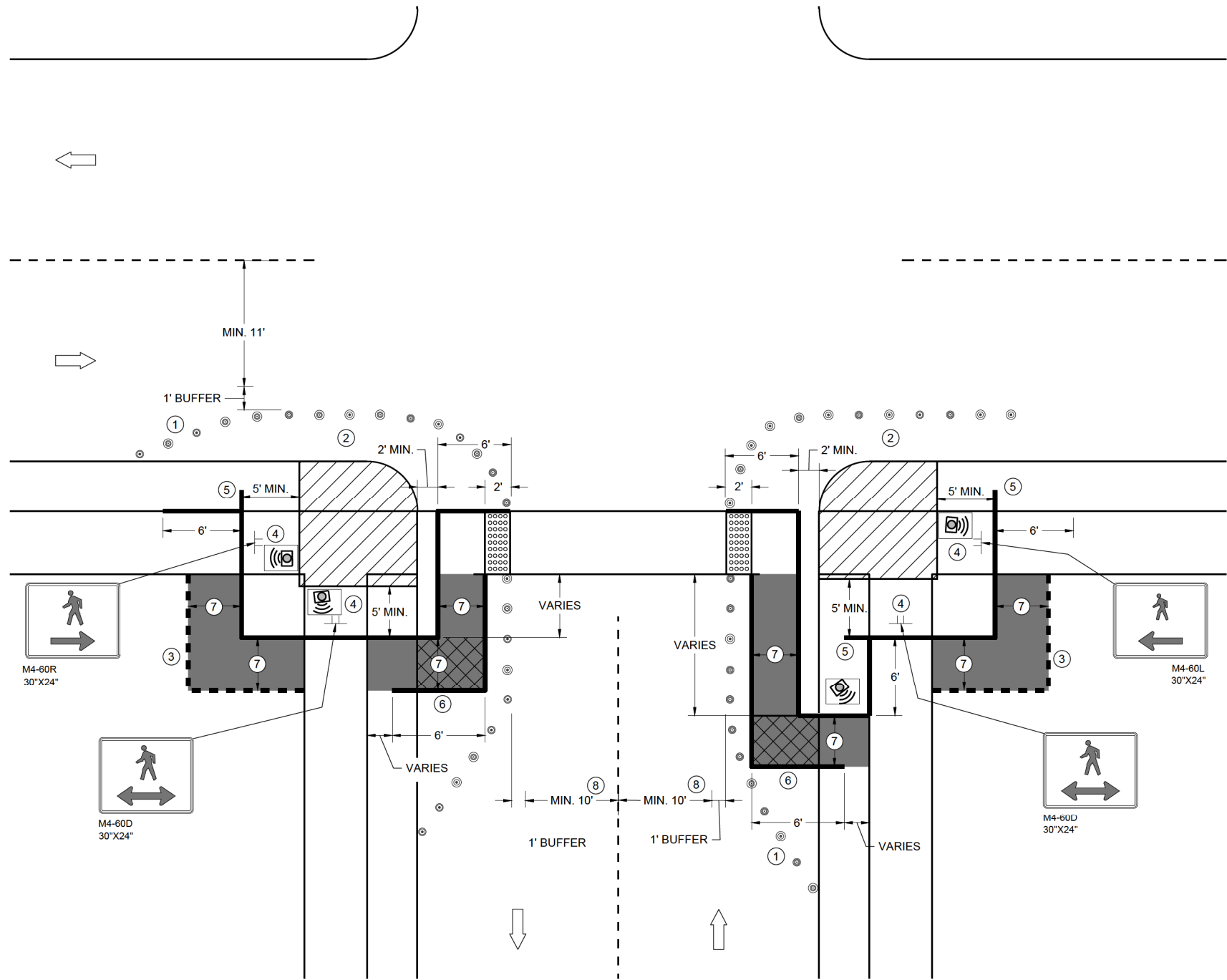
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- UNDER PEDESTRIAN TRAFFIC
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

GENERAL NOTES

- TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.
- WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.
- ① SHOULDER OR LANE CLOSURE ADVANCE WARNING AND BUFFER SPACE REQUIRED.
  - ② PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL PAST THE SIDEWALK ON THE SIDE AWAY FROM THE ROAD.
  - ③ MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.
  - ④ USE EXISTING PAVEMENT SURFACE. IF EXISTING PAVEMENT SURFACE HAS BEEN REMOVED, USE A TEMPORARY PEDESTRIAN SURFACE. WHEN THE TEMPORARY PEDESTRIAN ACCESS ROUTE RUNS PARALLEL ON THE ROADWAY SURFACE, THE MAXIMUM CROSS SLOPE WILL MATCH THE EXISTING ROADWAY CROSS SLOPE.



SIDEWALK BYPASS, SINGLE SIDE



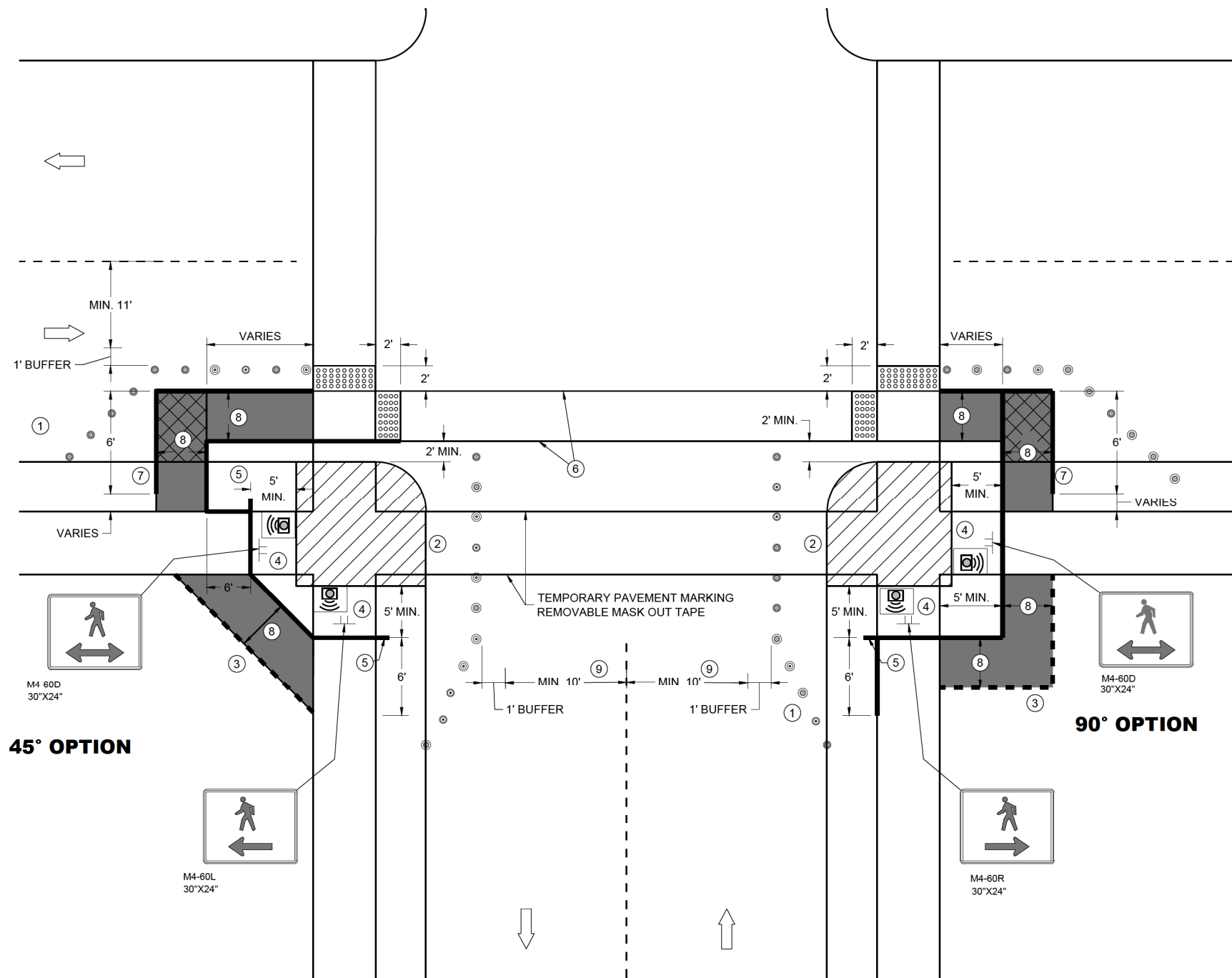
**CURB RAMP PEDESTRIAN TRAFFIC CONTROL  
SIDEWALK ON SINGLE SIDE**

**GENERAL NOTES**

- IF PEDESTRIAN PUSH BUTTONS ARE PRESENT ON THE EXISTING FACILITY, ENSURE THEY ARE MAINTAINED/ACCESSIBLE FOR PEDESTRIAN USE THROUGHOUT THE TEMPORARY PEDESTRIAN ACCOMMODATIONS.
- TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG
- WHEN TEMPORARY PEDESTRIAN BARRICADE RUNS PARALLEL ALONG THE SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.
- WHEN THE TEMPORARY PEDESTRIAN ACCESS ROUTE RUNS PARALLEL ON THE ROADWAY SURFACE, THE MAXIMUM CROSS SLOPE WILL MATCH THE EXISTING ROADWAY CROSS SLOPE.
- 1 SHOULDERS OR LANE CLOSURE ADVANCE WARNING AND PROPER BUFFER SPACE REQUIRED.
  - 2 PROVIDE ADEQUATE SPACE FOR CONTRACTOR OPERATIONS
  - 3 USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.
  - 4 MOUNTING HEIGHT OF 5 FEET FROM SIDEWALK SURFACE TO BOTTOM OF SIGN.
  - 5 PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL IN THE SIDEWALK TERRACE.
  - 6 IF TEMPORARY PEDESTRIAN BARRICADE DOES NOT REACH THE FACE OF THE CURB, USE AN ADDITIONAL PANEL AND EXTEND INTO THE TERRACE.
  - 7 4 FEET MINIMUM, 5 FEET DESIRABLE
  - 8 IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, CURB RAMPS MAY NEED TO BE CONSTRUCTED AT SEPARATE TIMES.

**LEGEND**

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY DETECTABLE WARNING FIELD
- TEMPORARY PEDESTRIAN BARRICADE
- OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC
- TEMPORARY AUDIBLE MESSAGE DEVICE (EXACT PLACEMENT BASED UPON FIELD CONDITIONS)



CURB RAMP PEDESTRIAN TRAFFIC CONTROL

GENERAL NOTES

IF PEDESTRIAN PUSH BUTTONS ARE PRESENT ON THE EXISTING FACILITY, ENSURE THEY ARE MAINTAINED/ACCESSIBLE FOR PEDESTRIAN USE THROUGHOUT THE TEMPORARY PEDESTRIAN ACCOMMODATIONS.

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG

WHEN TEMPORARY PEDESTRIAN BARRICADE RUNS PARALLEL ALONG THE SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

WHEN THE TEMPORARY PEDESTRIAN ACCESS ROUTE RUNS PARALLEL ON THE ROADWAY SURFACE, THE MAXIMUM CROSS SLOPE WILL MATCH THE EXISTING ROADWAY CROSS SLOPE.

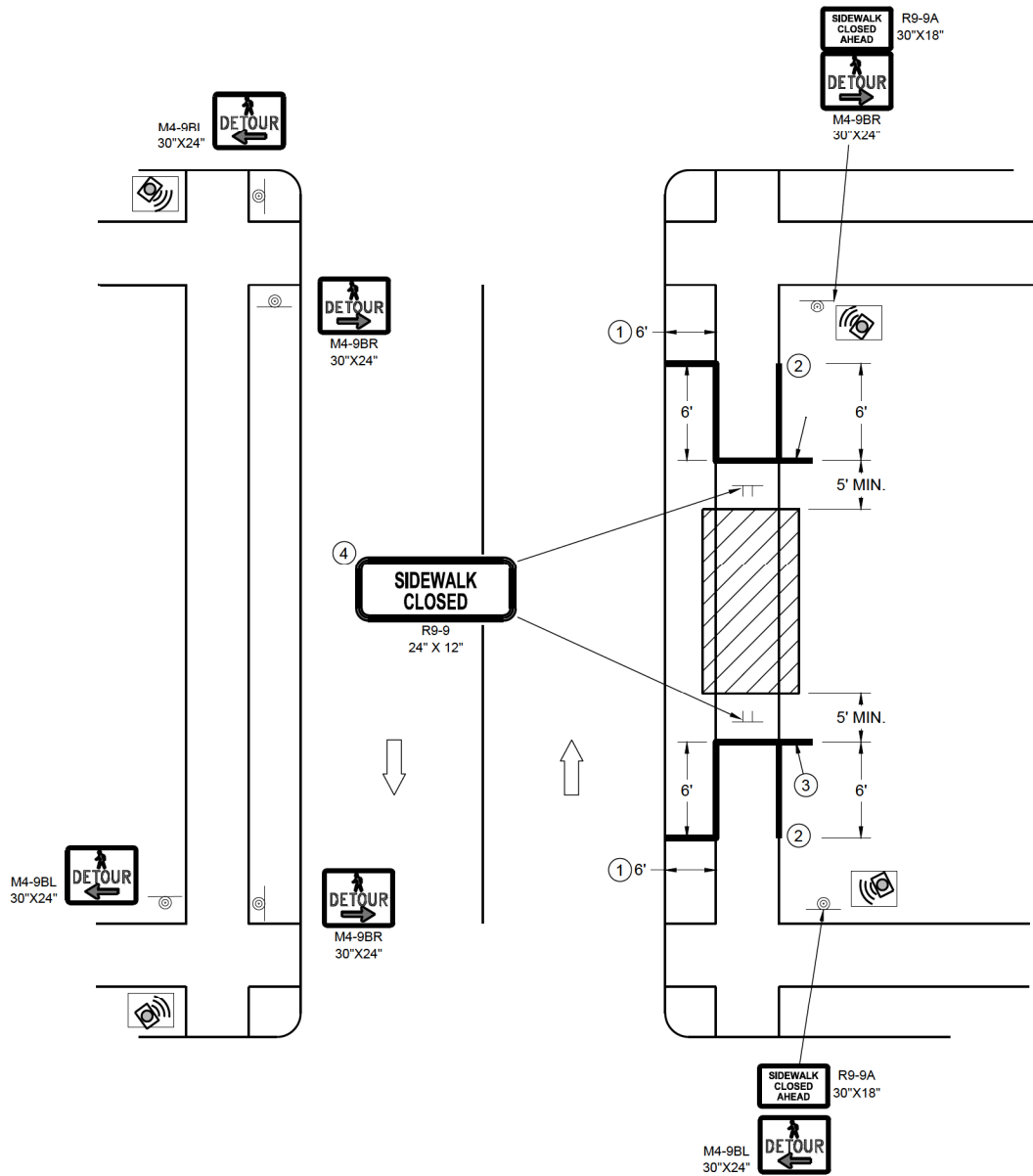
- 1 SHOULDER OR LANE CLOSURE ADVANCE WARNING AND PROPER BUFFER SPACE REQUIRED.
- 2 PROVIDE ADEQUATE SPACE FOR CONTRACTOR OPERATIONS
- 3 USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.
- 4 MOUNTING HEIGHT OF 5 FEET FROM SIDEWALK SURFACE TO BOTTOM OF SIGN.
- 5 PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL IN THE SIDEWALK TERRACE.
- 6 WHITE 6" TEMPORARY PAVEMENT MARKING
- 7 IF TEMPORARY PEDESTRIAN BARRICADE DOES NOT REACH THE FACE OF THE CURB, USE AN ADDITIONAL PANEL AND EXTEND INTO THE TERRACE.
- 8 4 FEET MINIMUM, 5 FEET DESIRABLE
- 9 IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, CURB RAMPS MAY NEED TO BE CONSTRUCTED AT SEPARATE TIMES.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY DETECTABLE WARNING FIELD
- TEMPORARY PEDESTRIAN BARRICADE
- OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC
- TEMPORARY AUDIBLE MESSAGE DEVICE (EXACT PLACEMENT BASED UPON FIELD CONDITIONS)

LEGEND

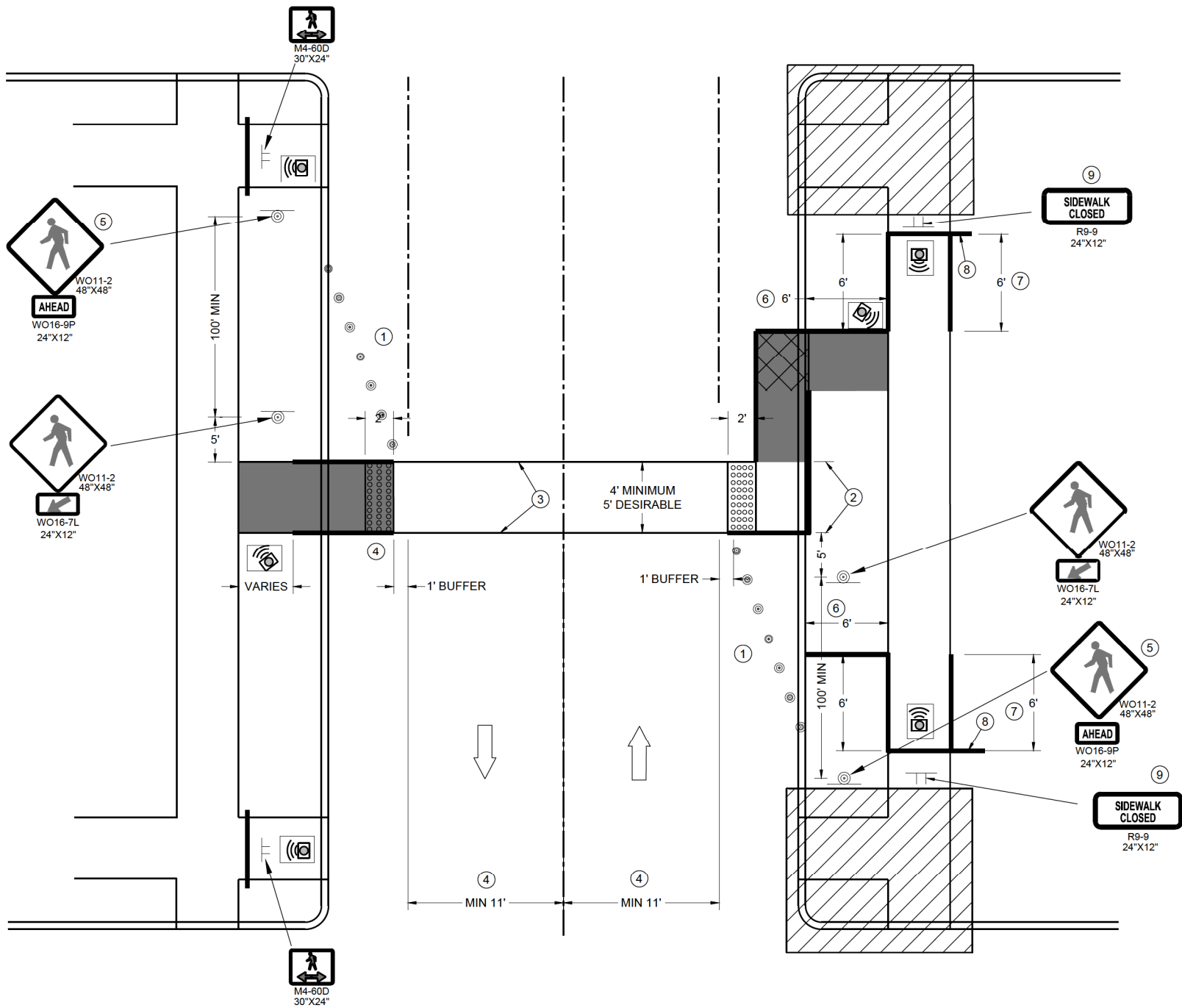
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC
- TEMPORARY AUDIBLE MESSAGE DEVICE (EXACT PLACEMENT BASED UPON FIELD CONDITIONS)



SIDEWALK DETOUR, SIDEWALK ON BOTH SIDES

GENERAL NOTES

- WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.
- SIGNS THAT REMAIN IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.
- PLACE TEMPORARY PEDESTRIAN BARRICADE TO FIT FIELD CONDITIONS, AVOIDING CONFLICT WITH DRIVEWAYS AND OTHER EXISTING FEATURES.
- IF TERRACE IS LESS THAN 6 FEET WIDE, OMIT TEMPORARY PEDESTRIAN BARRICADE FROM THE SIDEWALK TO THE CURB.
  - PLACE BARRICADE CLOSURE SO THAT THE TEMPORARY PEDESTRIAN BARRICADE END IS AT THE LAST OPEN SIDEWALK ACCESS TO RESIDENCES OR BUSINESSES BEFORE THE SIDEWALK CLOSURE.
  - IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
  - MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.



TEMPORARY PEDESTRIAN CROSSING

GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.  
SEE OTHER PEDESTRIAN ACCOMMODATION DETAILS FOR SIGNING AND DEVICES FOR DIFFERENT  
PEDESTRIAN FACILITIES CLOSURES.

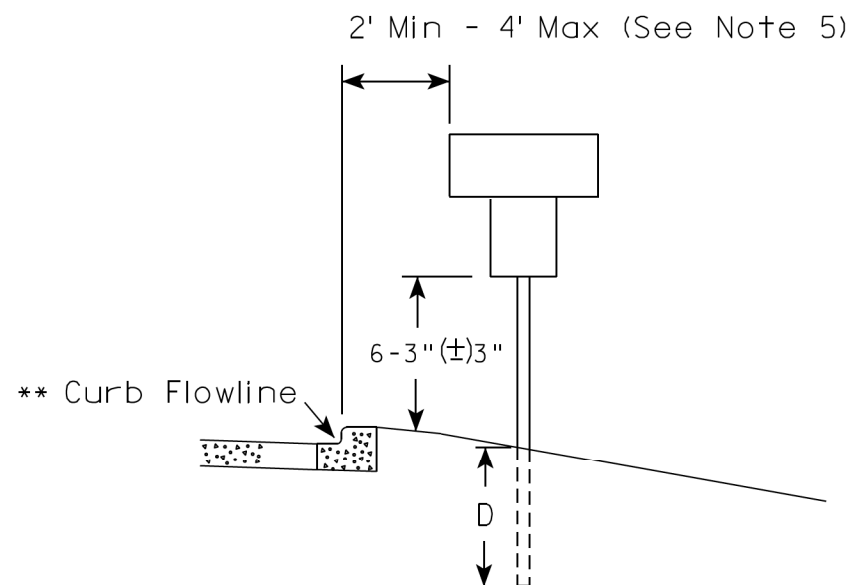
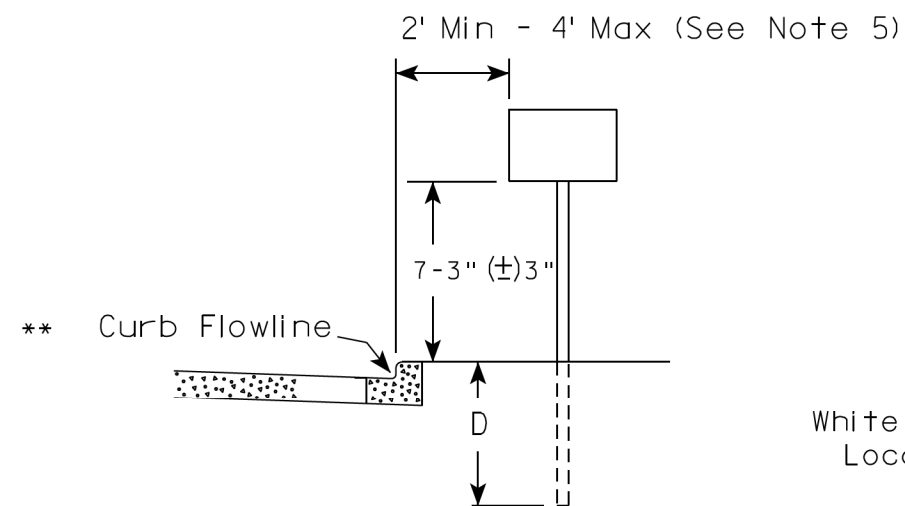
WHEN THE TEMPORARY PEDESTRIAN ACCESS ROUTE RUNS PARALLEL ON THE ROADWAY SURFACE, THE  
MAXIMUM CROSS SLOPE WILL MATCH THE EXISTING ROADWAY CROSS SLOPE.

- 1 SHOULDER OR LANE CLOSURE ADVANCED WARNING AND PROPER BUFFER SPACE REQUIRED.
- 2 4 FEET MINIMUM, 5 FEET DESIRABLE.
- 3 WHITE 6" TEMPORARY PAVEMENT MARKING.
- 4 IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, PERPENDICULAR CURB RAMP MAY NEED TO BE UTILIZED.
- 5 IF MINIMUM 100' SPACING FROM THE MID-BLOCK CROSSING CANNOT BE ATTAINED BEFORE THE INTERSECTION, REMOVE THIS SIGN ASSEMBLY.
- 6 IF TERRACE IS LESS THAN 6 FEET WIDE, OMIT TEMPORARY PEDESTRIAN BARRICADE FROM THE SIDEWALK TO THE CURB.
- 7 PLACE BARRICADE CLOSURE SO THAT THE TEMPORARY PEDESTRIAN BARRICADE END IS AT THE LAST OPEN SIDEWALK ACCESS TO RESIDENCES OR BUSINESSES BEFORE THE SIDEWALK CLOSURE.
- 8 IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF THE EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
- 9 MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF THE SIGN.

LEGEND

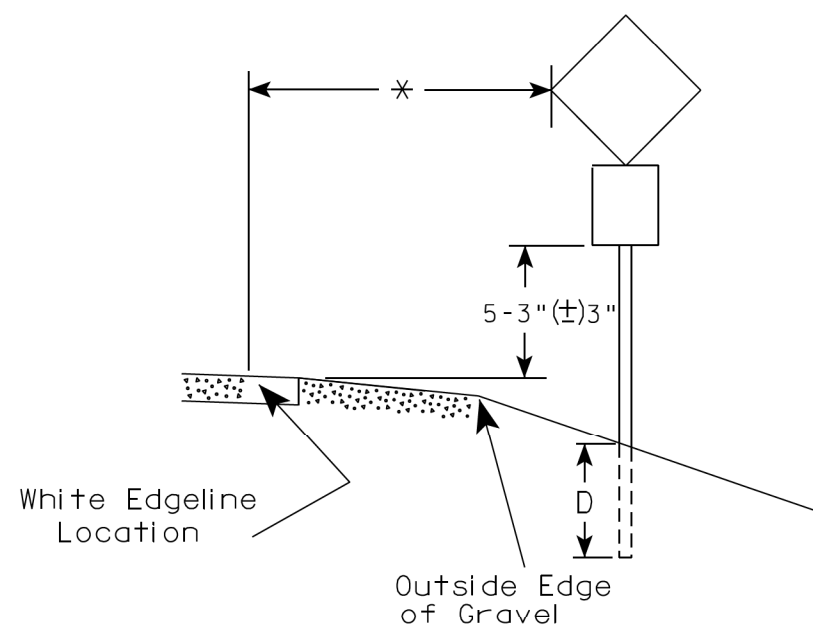
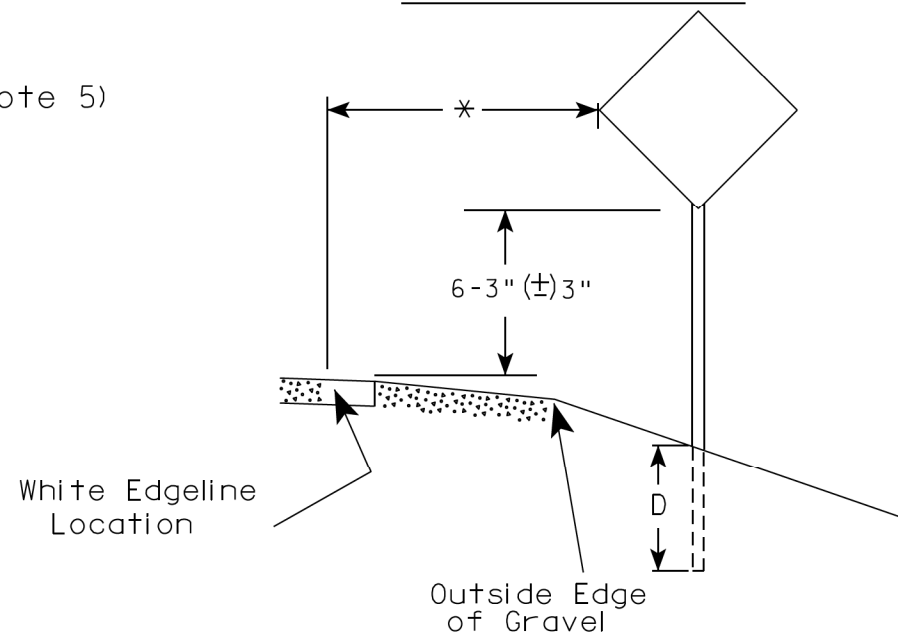
- TRAFFIC CONTROL DRUM
- SIGN ON TEMPORARY SUPPORT
- TEMPORARY CURB RAMP
- TEMPORARY DETECTABLE WARNING FIELD
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- WORK AREA
- TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC
- TEMPORARY AUDIBLE MESSAGE DEVICE (EXACT PLACEMENT BASED UPON FIELD CONDITIONS)

## URBAN AREA



\*\* The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

## RURAL AREA (See Note 2)



\* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

### POST EMBEDMENT DEPTH

Area of Sign Installation ( Sq. Ft. )	D ( Min )
20 or Less	4'
Greater than 20	5'

### GENERAL NOTES

- Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
- If signs are mounted on or behind barrier wall, see A4-10 sign plate.  
The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±) 3". The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±) 3".
- For expressways and freeways, mounting height is 7'- 3" (±) 3" or 6'-3" (±) 3" depending upon existence of a sub-sign.
- Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±) 3".
- Offset distance shall be consistent with existing signs or consistent throughout length of project.
- Folding signs shall be mounted at a height of 5'-3" (±) 3" or as directed by the Engineer.

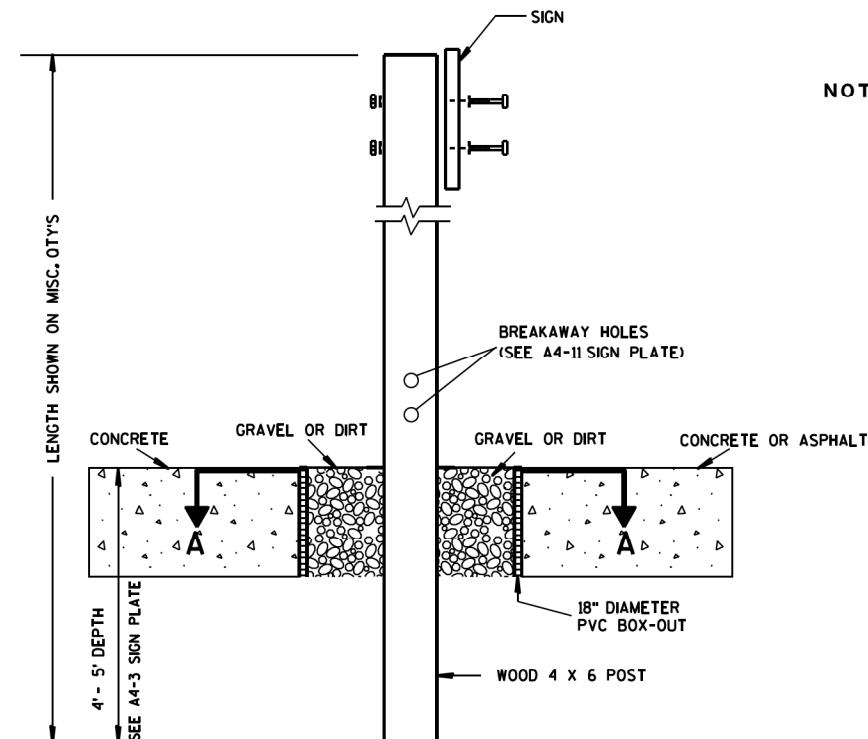
TYPICAL INSTALLATION  
OF PERMANENT TYPE II  
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-3.23

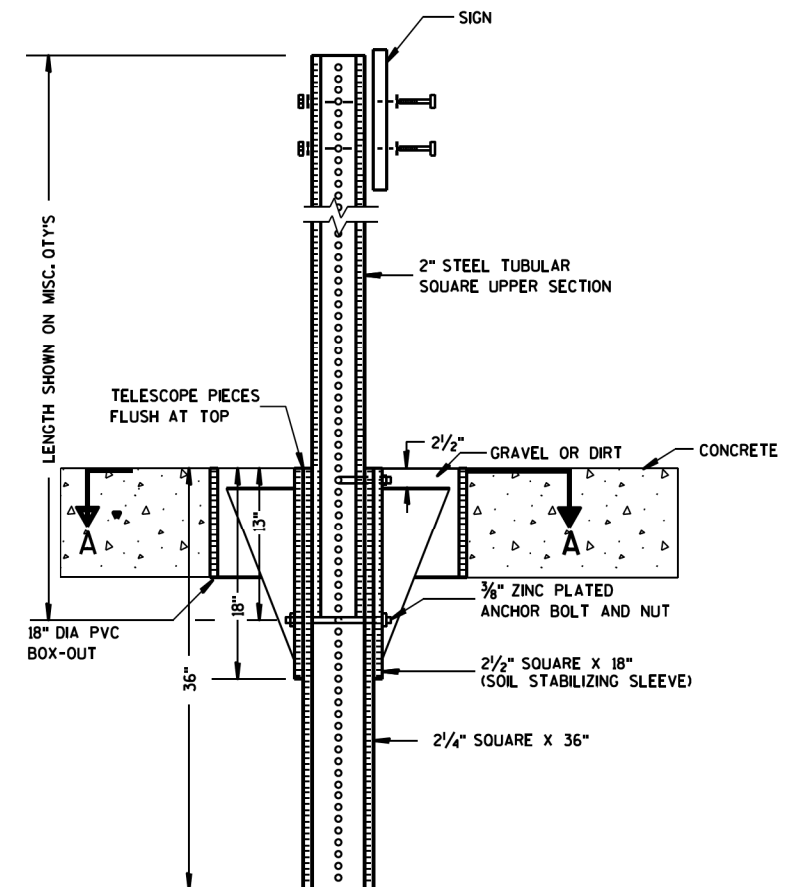
PROJECT NO: HWY: COUNTY: SHEET NO: 48 **E**



### ELEVATION VIEW

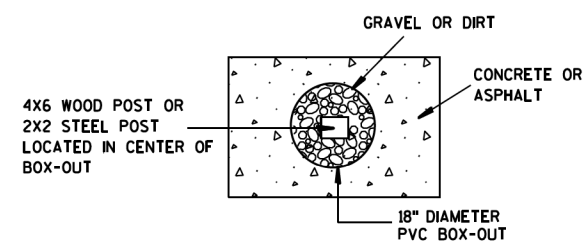
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

- NOTES: 1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



### ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



### PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST  
BOX-OUTS  
A4-3B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 1/27/14 PLAT 49 A4-3B.1

PROJECT NO:

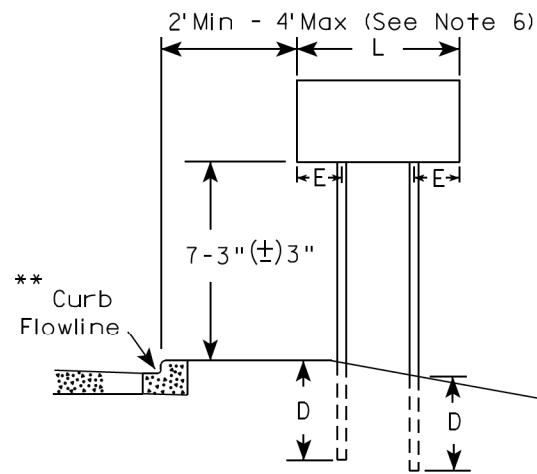
HWY:

COUNTY:

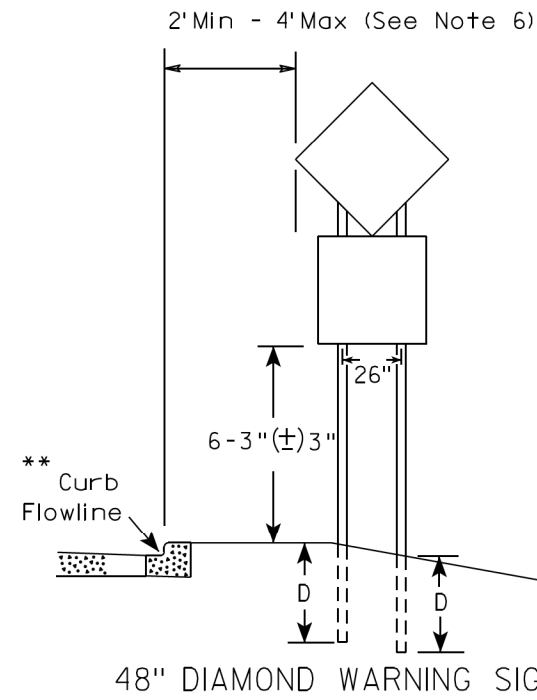
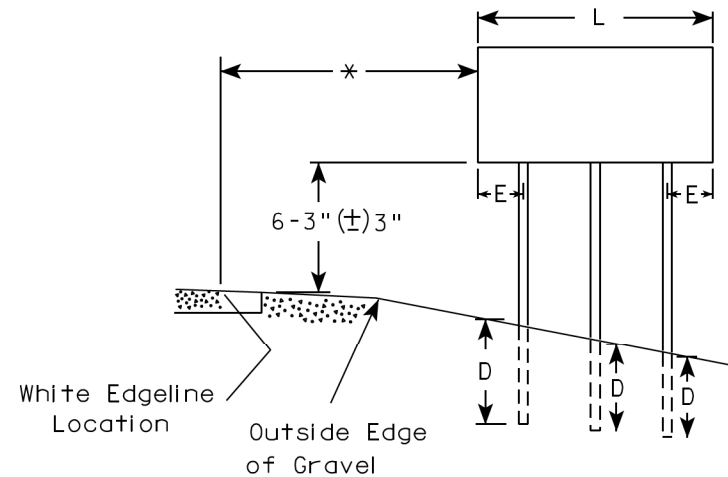
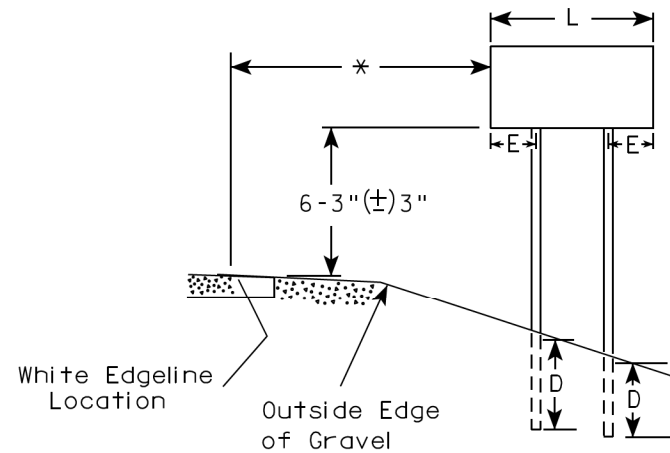
SHEET NO:

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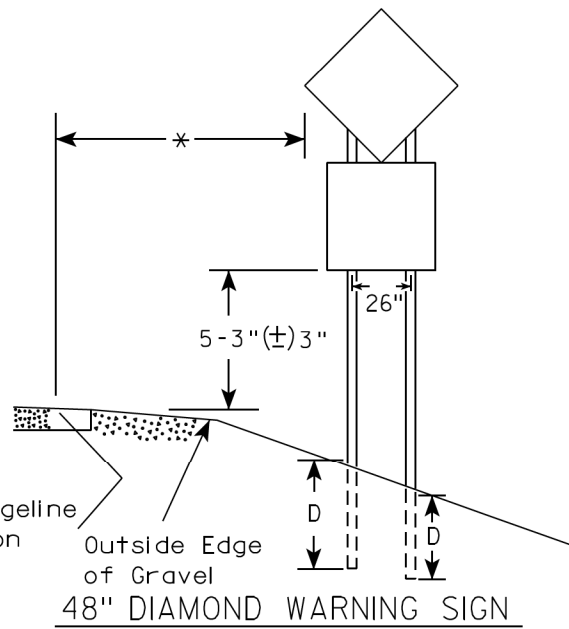
URBAN AREA



RURAL AREA (See Note 3)



48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

\*\*\*

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
L	E
Greater than 48" Less than 60"	12"
60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

POST EMBEDMENT DEPTH

Area of Sign Installation ( Sq.Ft. )	D ( Min )
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION  
OF TYPE II SIGNS  
ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 12/6/23	PLATE NO. A4-4.16

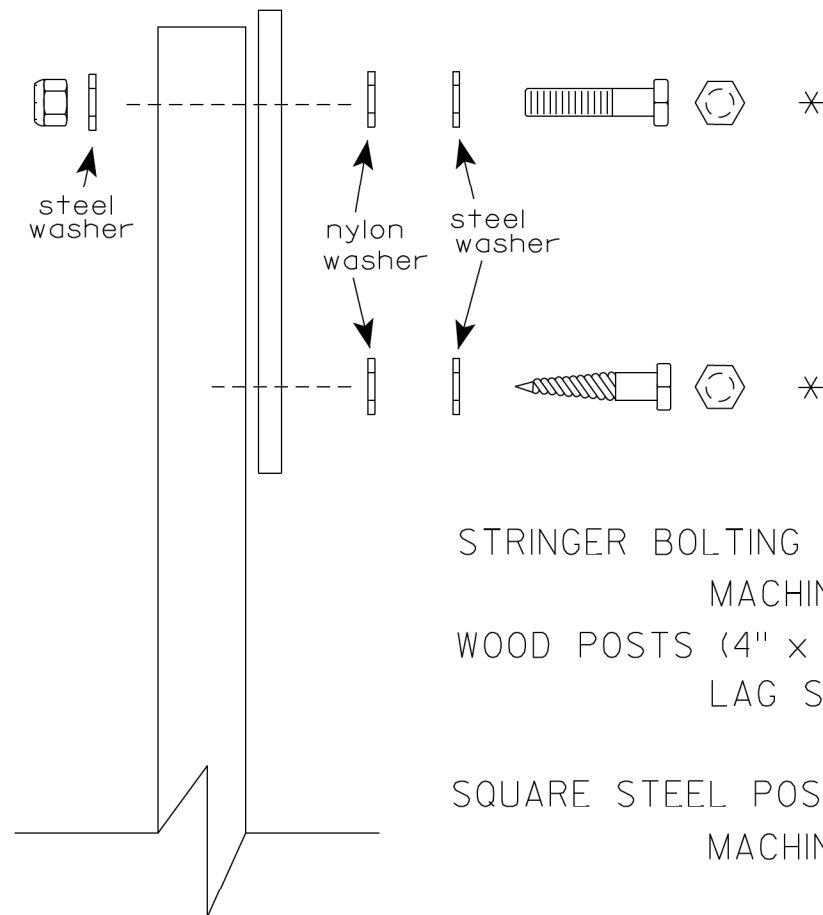
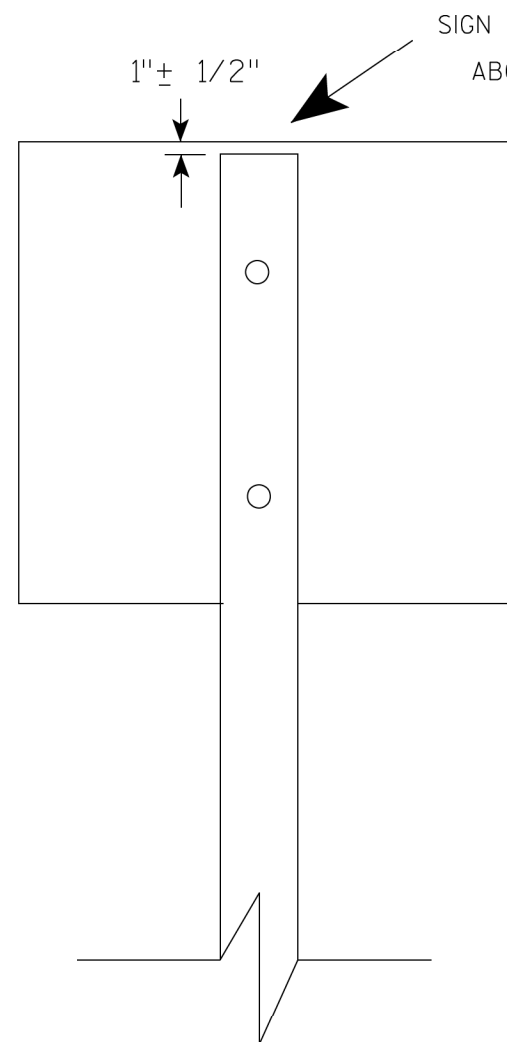
GENERAL NOTES

- For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- See tables below for required number of posts.
- For expressways and freeways, mounting height is 7'-3" (±) 3" or 6'-3" (±) 3" depending upon existence of sub-sign.
- The (±) tolerance for mounting height is 3 inches.
- J-Assemblies are considered to be one sign for mounting height.
- Offset distance shall be consistent with existing signs or consistent throughout length of project.
- Folding signs shall be mounted at a height of 5'-3" (±) 3" or as directed by the engineer.
- The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±) 3". The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±) 3".

\* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

\*\* The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

\*\*\* See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

- a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
- b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

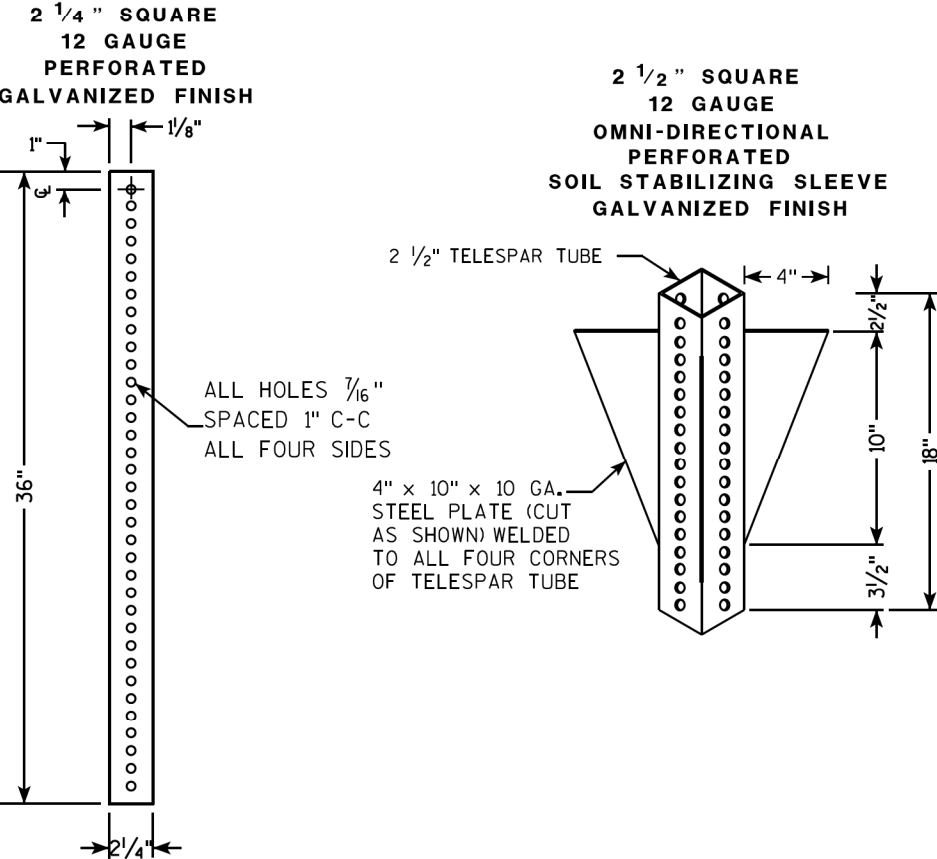
Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

- STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)
- MACHINE BOLTS -  $\frac{5}{16}$ " X 1-3/4" Length w/ lock nuts
- WOOD POSTS (4" x 6")
- LAG SCREWS -  $\frac{3}{8}$ " X 3" (NO STRINGERS ON BACK OF SIGN)  
 $\frac{3}{8}$ " X 4" (STRINGERS ON BACK OF SIGN)
- SQUARE STEEL POSTS (2" x 2")
- MACHINE BOLTS -  $\frac{3}{8}$ " X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)  
 $\frac{3}{8}$ " X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)
- RIVETS -  $\frac{9}{32}$ " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL  
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH
- WASHERS (ALL POSTS) -
- 1-1/4" O.D. X  $\frac{3}{8}$ " I.D. X  $\frac{1}{16}$ " STEEL
- 1-1/4" O.D. X  $\frac{3}{8}$ " I.D. X .080 NYLON

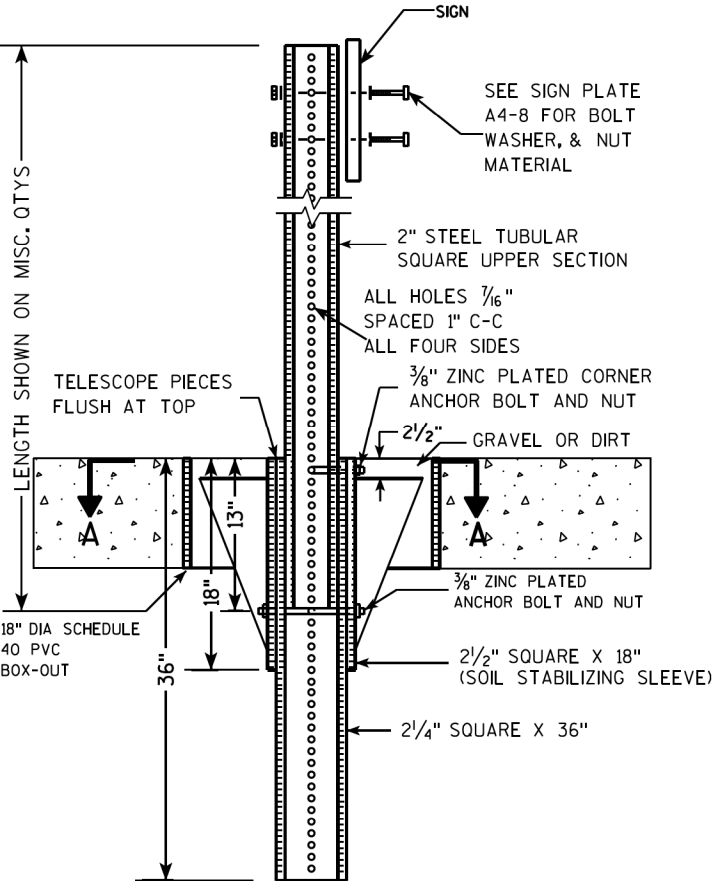
\* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 4/1/2020	PLATE NO. A4-8.9

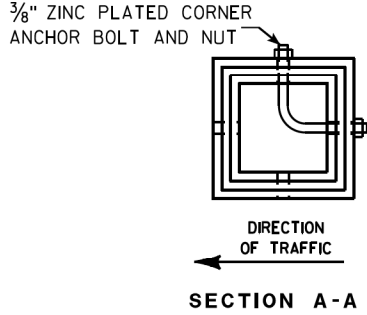
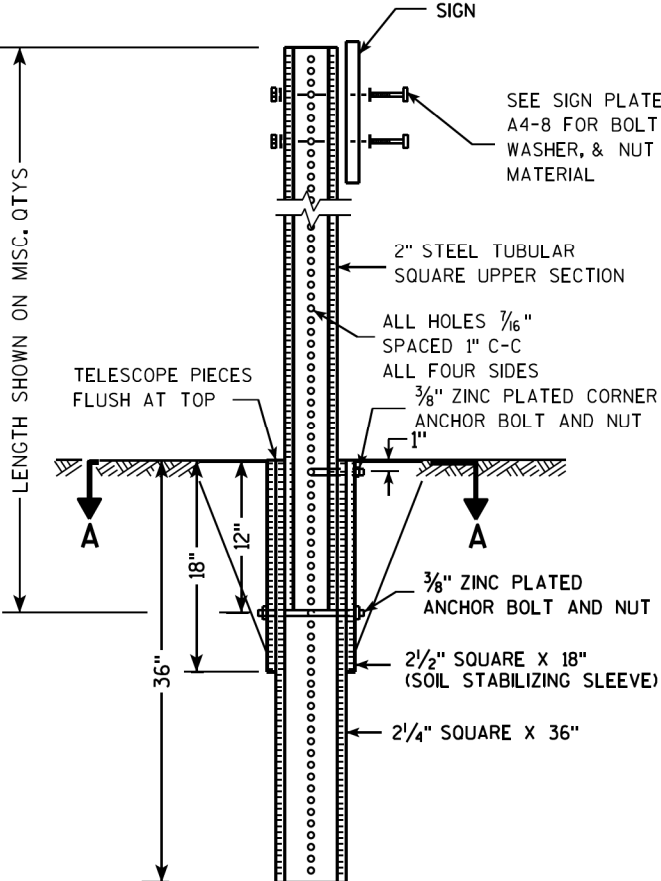
TELESCOPIC TUBING ANCHORS  
TWO PIECE SYSTEM



DETAIL OF TUBULAR STEEL SIGN POST  
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST  
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)



Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

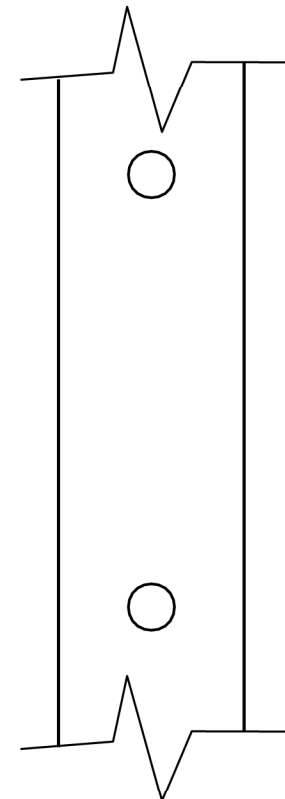
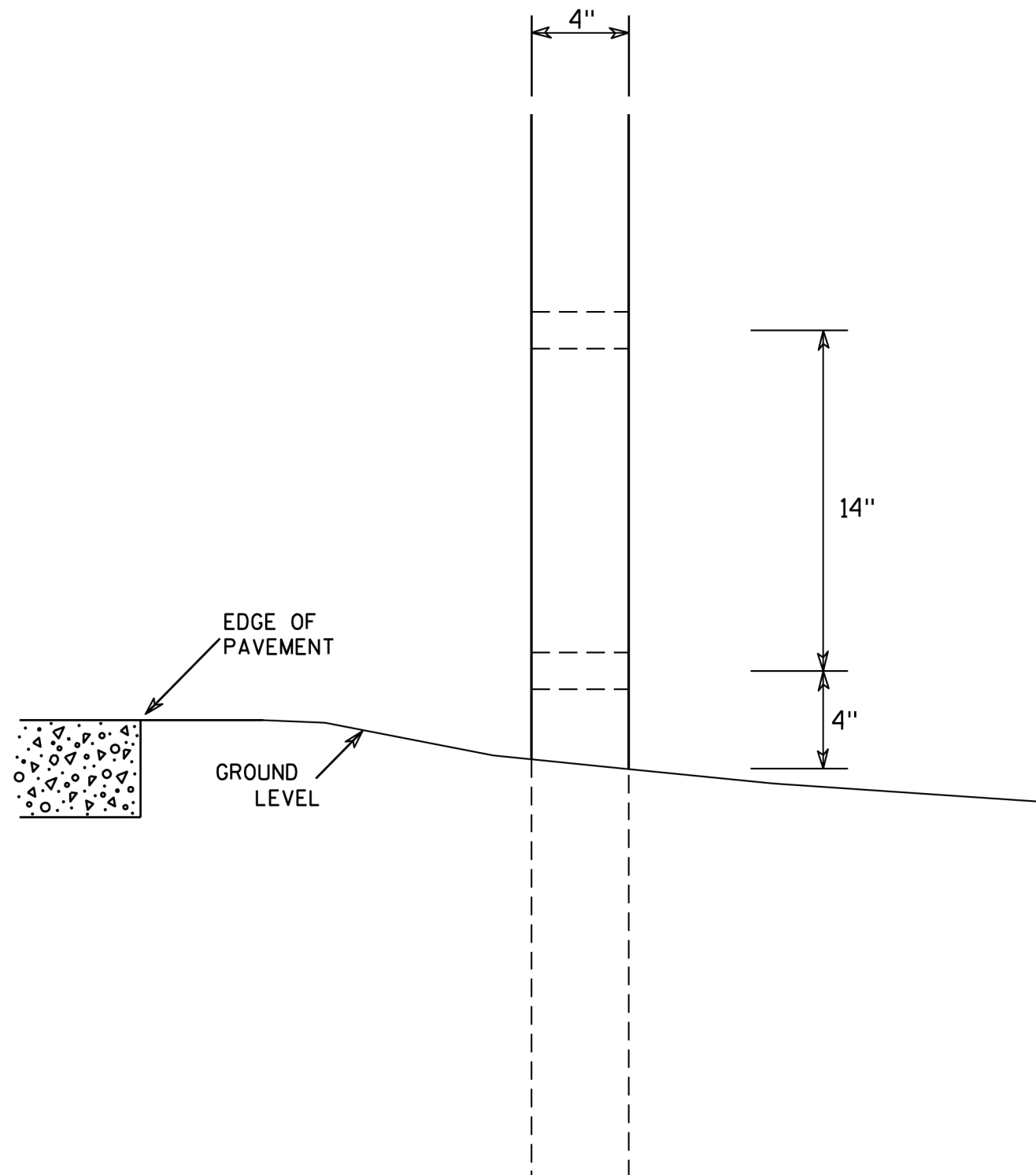
Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL  
SIGN POST  
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 2/05/15 PLAT 52 14-9.9



SIDE VIEW

# GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

## 4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

*Chester J. Spang*  
for State Traffic Engineer

DATE 3/27/97

PLATE NO. A4-11.2

PROJECT NO:

HWY:

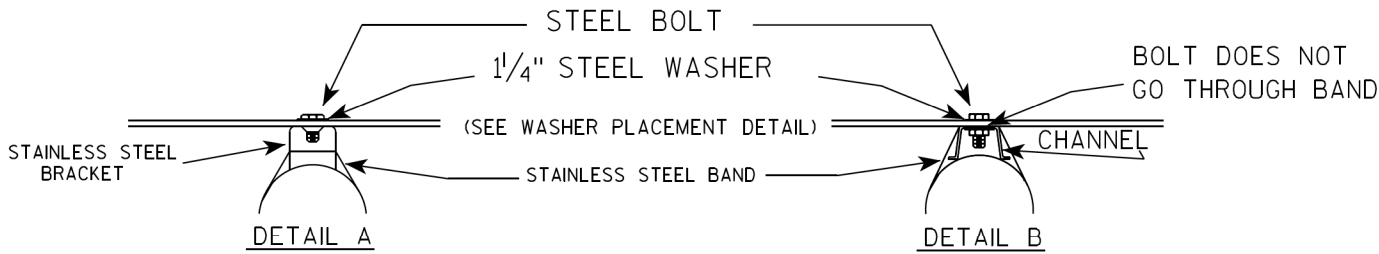
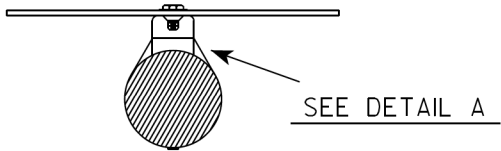
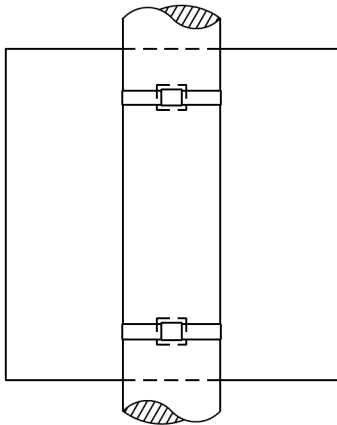
COUNTY:

SHEET NO: 53

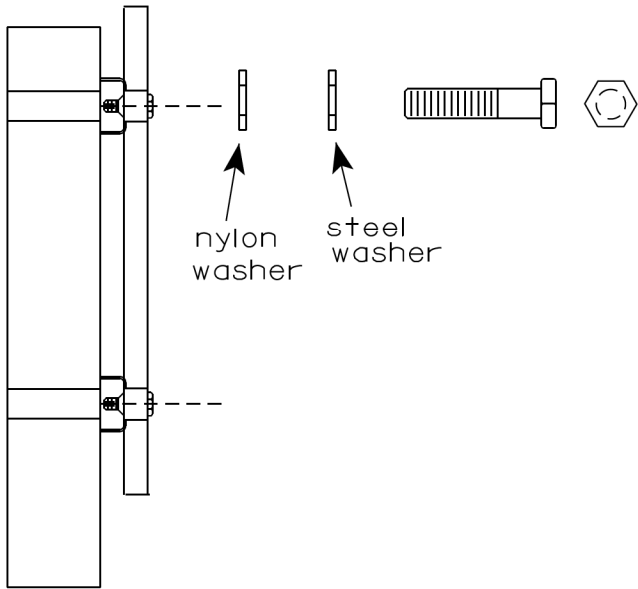
E

BANDING

SINGLE SIGN



WASHER PLACEMENT

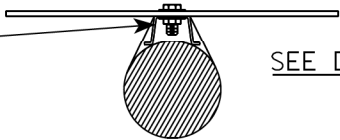
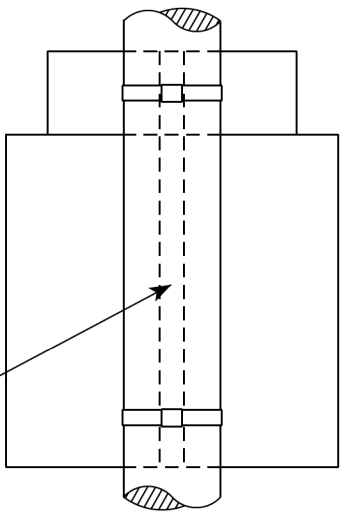


WASHERS (ALL POSTS) -  
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL  
1-1/4" O.D. X 3/8" I.D. X .080 NYLON  
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be 3/4" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
  - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
  - b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

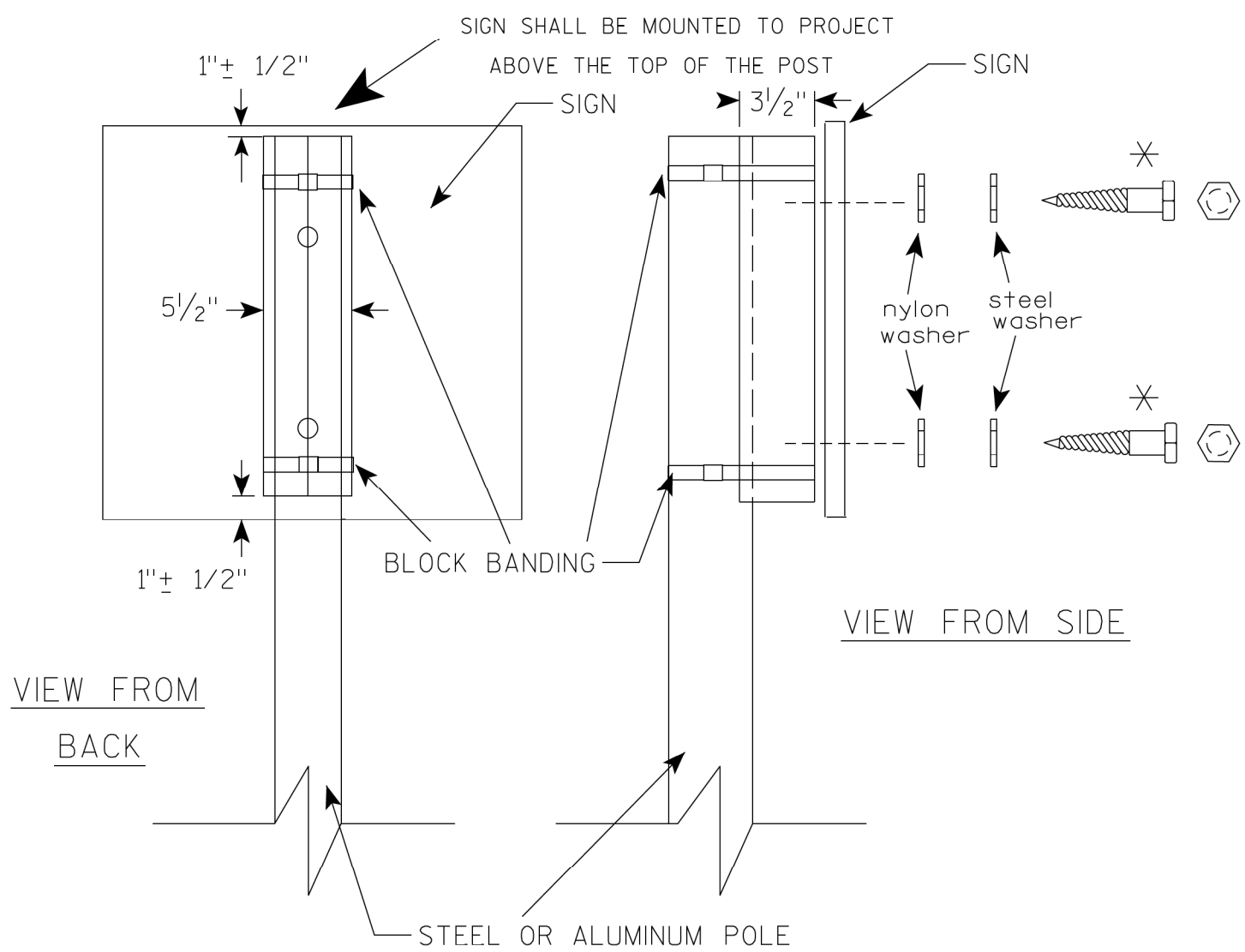
"J" ASSEMBLY



STANDARD SIGN  
SIGN BANDING DETAILS

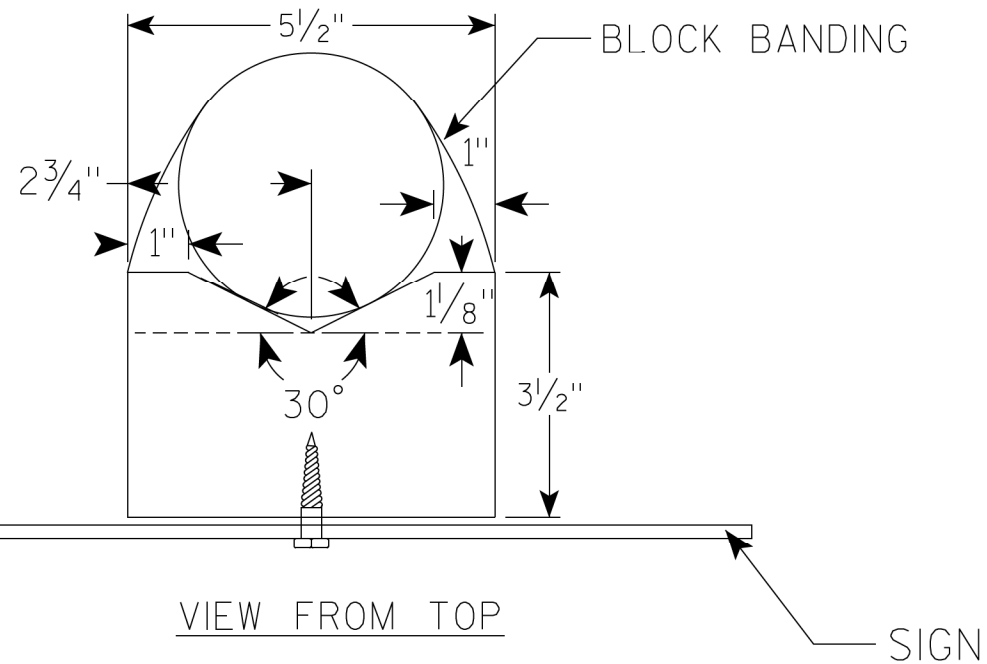
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer  
DATE 6/10/19 PLATE NO. A5-9.4



VIEW FROM  
BACK

VIEW FROM SIDE



VIEW FROM TOP

## GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WISDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL,  $\frac{3}{4}$ " WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORMALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
  - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
  - b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE  $\frac{1}{4}$ " O.D. X  $\frac{3}{8}$ " I.D. X  $\frac{1}{16}$ "
8. NYLON WASHERS SHALL BE  $\frac{1}{4}$ " O.D. X  $\frac{3}{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

X LAG BOLTS SHALL BE  $\frac{3}{8}$ " X  $2\frac{1}{2}$ "

BLOCK BANDING DETAIL  
( V-BLOCK OPTION )

WISCONSIN DEPT OF TRANSPORTATION

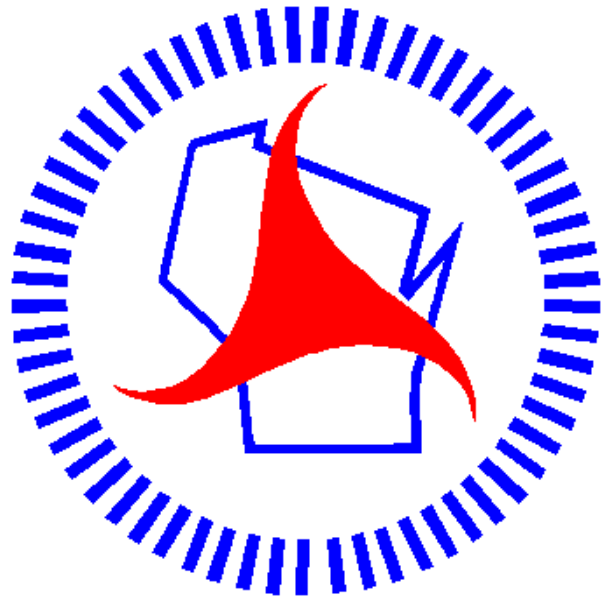
APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 4/19/2022 PLATE NO. A5-10.3

PROJECT NO:

SHEET NO: 55

E



## ***Wisconsin Department of Transportation***

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