

CITY OF DE PERE
RECEIVED

OCT 12 2022

PLANNING DEPT



CITY OF DE PERE

APPLICATION FOR
SITE PLAN REVIEW

Fee: \$ 305.00

Receipt #: 176465

Date: 10-12-22

Read all instructions provided before completing. If additional space is needed, attach additional pages. Type or use black ink.

SECTION 1: Applicant / Permittee Information

Applicant Name (Ind., Org. or Entity) Robert E Lee and Associates, Inc.	Authorized Representative Aaron Breitenfeldt	Title Project Manager	
Mailing Address 1250 Centennial Centre Blvd	City Hobart	State WI	ZIP Code 54155
Email Address abreitenfeldt@releeinc.com	Phone Number (incl. area code) 920-662-9641	Fax Number (incl. area code)	

SECTION 2: Landowner Information (complete these fields when project site owner is different than applicant)

Name (Ind. Org. or Entity) Bayside Machine Corporation	Contact Person Rob Salesky	Title Treasurer	
Mailing Address 2257 American Blvd	City De Pere	State WI	ZIP Code 54115
Email Address rob@baysidemachine.net	Phone Number (incl. area code) 920-330-9972	Fax Number (incl. area code)	

SECTION 3: Project or Site Location

Project Address/Description 2257 American Blvd	Parcel No. WD-1371
---	-----------------------

SECTION 4: Project Information

Existing Zoning:	I-B-2		
Present Use of Parcel:	Industrial Development		
Proposed Use of Parcel:	Industrial Development		
Estimated Start Date:	3-30-20	Estimated Completion Date:	11-27-20

Please submit 1 hard copy 24x36, 1 hard copy 11x17 and 1 PDF copy of the submittal.

SECTION 5: Certification and Permission

Certification: I hereby certify that I am the owner or authorized representative of the owner of the property which is the subject of this Permit Application. I certify that the information contained in this form and attachments is true and accurate. I certify that the project will be in compliance with all permit conditions. I understand that failure to comply with any or all of the provisions of the permit may result in permit revocation and a fine and/or forfeiture under the provisions of applicable laws.

Permission: I hereby give the City permission to enter and inspect the property at reasonable times, to evaluate this notice and application, and to determine compliance with any resulting permit coverage.

Name of Owner/Authorized Representative (please print) Aaron Breitenfeldt	Title Project Manager	Phone Number 920-662-9641
Signature of Applicant 		Date Signed 9/29/22

TO BE COMPLETED BY CITY STAFF

CSM Review authorized by the De Pere Municipal Code, Chapter 46.

CITY OF DE PERE

335 South Broadway, De Pere, WI 54115 | www.de-pere.org



January 23, 2024

Aaron Breitenfeldt
Robert E Lee & Associates INC
1250 Centennial Centre BL
Hobart, WI 54155

RE: Site Plan Review for the Bayside Machine Addition at 2257 American BL
(Parcel WD-1371)

Dear Aaron:

Thank you for the revised site plan for the Bayside addition at 2257 American BL. The City of De Pere staff reviewed the revised site plan on January 23, 2024, and recommended approval with the following three conditions that must be addressed prior to obtaining occupancy permits:

- After exterior lighting is installed, provide a statement from the installer that the light spill from the property does not exceed the approved photometric plan.
- A Sign review and permit shall be obtained for any signs that require a permit prior to installation.
- All site plan conditions shall be completed prior to the issuance of an Occupancy Certificate.

You may now proceed to the Inspection Division to begin the process of obtaining permits. Should you have any questions regarding the decision or require further information, feel free to contact me at 339-4043 or pschleinz@deperewi.gov.

Sincerely,

A handwritten signature in black ink that reads "Peter Schleinz". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Peter Schleinz
Senior Planner | Zoning Administrator

cc: Daniel J. Lindstrom, AICP, Development Services Director
Dennis Jensen, Senior Building Inspector



April 18, 2023

Robert Salesky
Bayside Machine Corp
2257 American Blvd.
De Pere WI 54115
Via email: rob@baysidemachine.net

SUBJECT: Coverage Under WPDES General Permit No. WI-S067831-06: Construction Site Storm Water Runoff

Permittee Name: Bayside Machine Corp
Site Name: Bayside Machine Building Addition
FIN: 70994

Dear Permittee:

The Wisconsin Department of Natural Resources received your Water Resources Application for Project Permits or Notice of Intent, on April 12, 2023, for the Bayside Machine Building Addition site and has evaluated the information provided regarding storm water discharges from your construction site. We have determined that your construction site activities will be regulated under ch. 283, Wis. Stats., ch. NR 216, Wis. Adm. Code, and in accordance with Wisconsin Pollutant Discharge Elimination System (WPDES) General Permit No. WI-S067831-06, Construction Site Storm Water Runoff. All erosion control and storm water management activities undertaken at the site must be done in accordance with the terms and conditions of the general permit.

The **Start Date** of permit coverage for this site is April 18, 2023. The maximum period of permit coverage for this site is limited to 3 years from the **Start Date**. Therefore, permit coverage automatically expires and terminates 3 years from the Start Date and storm water discharges are no longer authorized unless another Notice of Intent and application fee to retain coverage under this permit or a reissued version of this permit is submitted to the Department 14 working days prior to expiration.

A copy of the general permit along with extensive storm water information including technical standards, forms, guidance and other documents is accessible on the Department's storm water program Internet site. To obtain a copy of the general permit, please download it and the associated documents listed below from the following Department Internet site:

<http://dnr.wi.gov/topic/stormwater/construction/forms.html>

- Construction Site Storm Water Runoff WPDES general permit No. WI-S067831-06
- Construction site inspection report form
- Notice of Termination form

If, for any reason, you are unable to access these documents over the Internet, please contact me and I will send them to you.

To ensure compliance with the general permit, please read it carefully and be sure you understand its contents. Please take special note of the following requirements (This is not a complete list of the terms and conditions of the general permit.):

1. The Construction Site Erosion Control Plan and Storm Water Management Plan that you completed prior to submitting your permit application must be implemented and maintained throughout construction. Failure to do so may result in enforcement action by the Department.

2. The general permit requires that erosion and sediment controls be routinely inspected at least every 7 days, and within 24 hours after a rainfall event of 0.5 inches or greater. Weekly written reports of all inspections must be maintained. The reports must contain the following information:

- a. Date, time, and exact place of inspection;
- b. Name(s) of individual(s) performing inspection;
- c. An assessment of the condition of erosion and sediment controls;
- d. A description of any erosion and sediment control implementation and maintenance performed;
- e. A description of the site's present phase of construction.

3. A **Certificate of Permit Coverage** must be posted in a conspicuous place on the construction site. The Certificate of Permit Coverage (WDNR Publication # WT-813) is enclosed for your use.

4. When construction activities have ceased and the site has undergone final stabilization, a Notice of Termination (NOT) of coverage under the general permit must be submitted to the Department.

It is important that you read and understand the terms and conditions of the general permit because they have the force of law and apply to you. Your project may lose its permit coverage if you do not comply with its terms and conditions. The Department may also withdraw your project from coverage under the general permit and require that you obtain an individual WPDES permit instead, based on the Department's own motion, upon the filing of a written petition by any person, or upon your request.

If you believe that you have a right to challenge this decision to grant permit coverage, you should know that the Wisconsin statutes and administrative rules establish time periods within which requests to review Department decisions must be filed. For judicial review of a decision pursuant to ss. 227.52 and 227.53, Wis. Stats., you have 30 days after the decision is mailed, or otherwise served by the Department, to file your petition with the appropriate circuit court and serve the petition on the Department. Such a petition for judicial review must name the Department of Natural Resources as the respondent.

To request a contested case hearing pursuant to s. 227.42, Wis. Stats., you have 30 days after the decision is mailed, or otherwise served by the Department, to serve a petition for hearing on the Secretary of the Department of Natural Resources. All requests for contested case hearings must be made in accordance with s. NR 2.05(5), Wis. Adm. Code, and served on the Secretary in accordance with s. NR 2.03, Wis. Adm. Code. The filing of a request for a contested case hearing is not a prerequisite for judicial review and does not extend the 30-day period for filing a petition for judicial review.

Thank you for your cooperation with the Construction Site Storm Water Discharge Permit Program. If you have any questions concerning the contents of this letter or the general permit, please contact Stormwater Specialist, Sarah Anderson at (920) 662-5441 or sarah.anderson@wisconsin.gov.

Sincerely,



BJ Mahon
Stormwater Intake Specialist

ENCLOSURE: Certificate of Permit Coverage



CERTIFICATE OF PERMIT COVERAGE

UNDER THE WPDES CONSTRUCTION SITE STORM WATER RUNOFF PERMIT Permit No. WI-S067831-06

Under s. NR 216.455(2), Wis. Adm. Code, landowners of construction sites with storm water discharges regulated by the Wisconsin Department of Natural Resources (WDNR) Storm Water Permit Program are required to post this certificate in a conspicuous place at the construction site. This certifies that the site has been granted WDNR storm water permit coverage. The landowner must implement and maintain erosion control practices to limit sediment-contaminated runoff to waters of the state in accordance with the permit.

EROSION CONTROL COMPLAINTS should be reported to the WDNR Tip Line at **1-800-TIP-WDNR (1-800-847-9367)**

Please provide the following information to the Tip Line:

WDNR Site No. (FIN): 70994

Site Name: Bayside Machine Building Addition

Address/Location: 2257 American Blvd, City of DE PERE

Additional Information:

Landowner: Bayside Machine Corp

Landowner's Contact Person: Robert Salesky

Contact Telephone Number: (920) 330-9972

Permit Start Date: April 18, 2023

By:

By Maho for Sarah Anderson



Soil Loss & Sediment Discharge Calculation Tool
for use on Construction Sites in the State of Wisconsin

WDNR Version 2.0 (06-29-2017)



YEAR 1

Developer: BAYSIDE MACHINE CORP.

Project: BUILDING ADDITION

Date: 03/05/20

County:

Brown

Version 1.0

Activity (1)	Begin Date (2)	End Date (3)	Period % R (4)	Annual R Factor (5)	Sub Soil Texture (6)	Soil Erodibility K Factor (7)	Slope (%) (8)	Slope Length (ft) (9)	LS Factor (10)	Land Cover C Factor (11)	Soil loss A (tons/acre) (12)	SDF (13)	Sediment Control Practice (14)	Sediment Discharge (t/ac) (15)
<div>Bare Ground</div>	03/01/20	05/01/20	7.3%	100	<div>Clay</div>	0.32	1.0%	96	0.13	1.00	0.3	0.889	<div>Silt Fence</div>	0.2
<div>Bare Ground</div>	05/01/20	07/01/20	30.6%	100	Clay	0.32	1.0%	145	0.15	1.00	1.4	0.834	<div>Inlet Protection</div>	0.8
<div>Seed with Mulch or Er</div>	07/01/20	----	60.1%	100	Clay	0.32	1.0%	145	0.15	0.10	0.3	0.834	<div>Inlet Protection</div>	0.2
<div>End</div>		----	----	----	-----	----	1.0%	145	0.15	----	----	0.000	<div></div>	0.0
You must enter a date for 'end'														
<div></div>		----	----	----	-----	----	1.0%	0	----	----	----	0.000	<div></div>	0.0
<div></div>		----	----	----	-----	----	0.0%	0	----	----	----	0.000	<div></div>	0.0
TOTAL											2.0		TOTAL	1.2
													% Reduction Required	NONE

Notes:
See Help Page for further descriptions of variables and items in drop-down boxes.
The last land disturbing activity on each sheet must be 'End'. This is either 12 months from the start of construction or final stabilization.
For periods of construction that exceed 12 months, please demonstrate that 5 tons/acre/year is not exceeded in any given 12 month period.

NOTE: THIS TOOL ONLY ADDRESSED SOIL EROSION DUE TO SHEET FLOW. MEASURES TO CONTROL CHANNEL EROSION MAY ALSO BE REQUIRED TO MEET SEDIMENT DISCHARGE REQUIREMENTS.

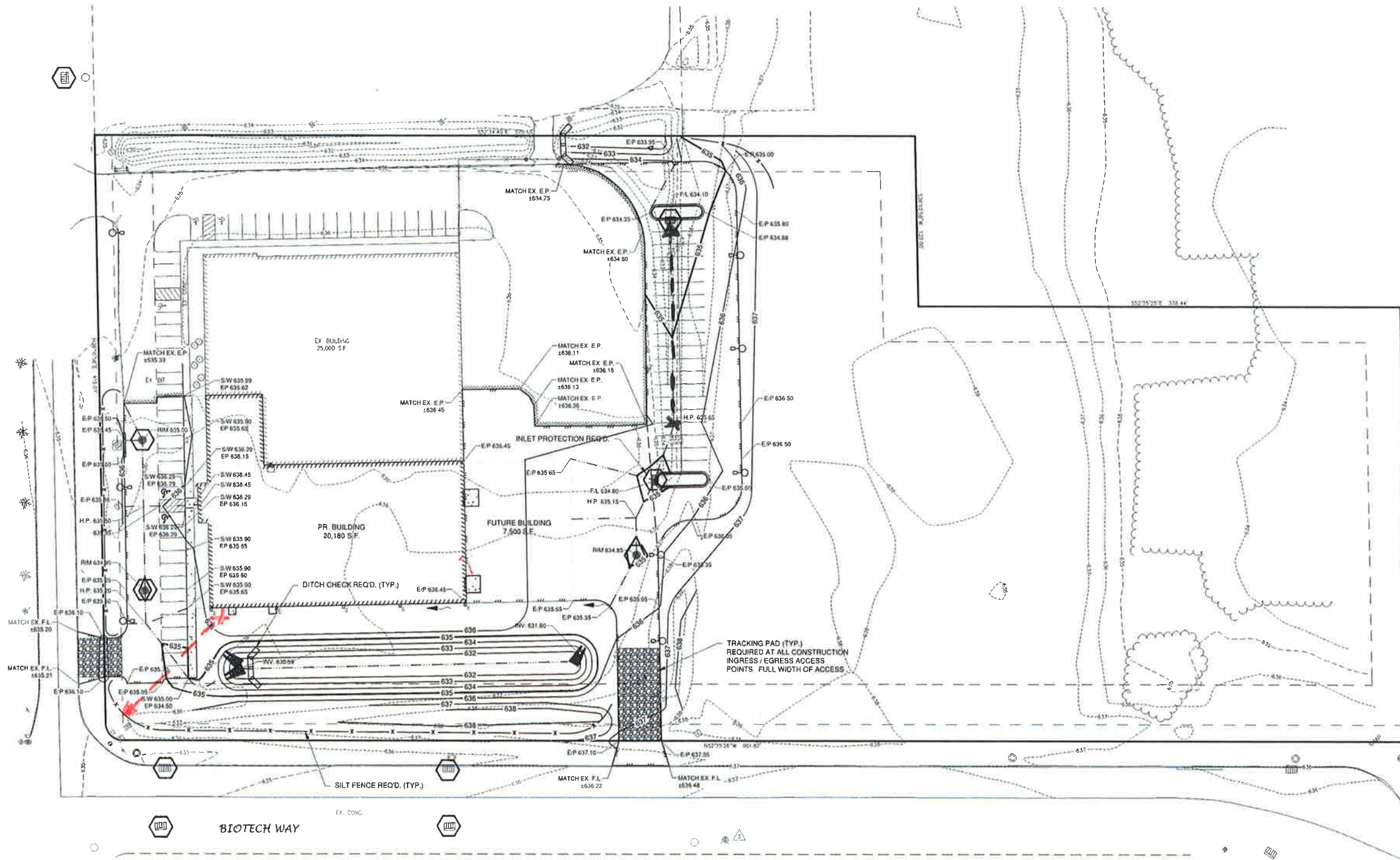
Recommended Permanent Seeding Dates:
4/15-6/1 and 8/1-8/21 Turf, introduced grasses and legumes
Thaw-6/30 Native Grasses, forbs, and legumes

Designed By: BLT

Date 3/5/2020

AMERICAN BOULEVARD

BIOTECH WAY



T/C 999.99 TOP OF CURB ELEVATION
P/L 888.88 FLOW LINE ELEVATION
S/W 888.88 TOP OF SIDEWALK ELEVATION
E/P 555.55 EDGE OF PAVEMENT ELEVATION
R/W 444.44 TOP OF RETAINING WALL ELEVATION
333.33 GROUND ELEVATION

LEGEND

- DRAINAGE SWALE
- DRAINAGE DIVIDE
- FLOW ARROW
- SILT FENCE (PER WDNR TECHNICAL STANDARD 1056)
- DITCH CHECK (PER WDNR TECHNICAL STANDARD 1062)
- TRACKING PAD (PER WDNR TECHNICAL STANDARD 1057)
- EROSION MAT (PER WDNR TECHNICAL STANDARD 1053)
- INLET PROTECTION (PER WDNR TECHNICAL STANDARD 1060)

EROSION CONTROL

ALL EROSION CONTROL PRACTICES INDICATED ON THIS PLAN ARE APPROXIMATE LOCATIONS ONLY. THE ACTUAL SITE MAY REQUIRE MORE OR LESS EROSION CONTROL DEPENDING ON THE CURRENT CONDITION OF THE SITE.

1. SILT FENCE IS REQUIRED DOWNSLOPE OF ANY DISTURBED LAND THAT MAY CARRY SEDIMENTS OFF SITE.
2. A TRACKING PAD IS REQUIRED AT ANY INGRESS/EGRESS LOCATION, WHERE SEDIMENT MAY BE TRACKED OFF-SITE.
3. PROPER INLET PROTECTION SHALL BE USED DEPENDING ON THE INLET TYPE.
4. ALL NECESSARY SITE DEWATERING SHALL BE PERFORMED IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1061.

X-->= WORST CASE EX.
96' 6" 1.01%.

X-->= WORST CASE PR.
145' 6" 1.02%.

EX SAN 892
RM 635.25
D=11.63'
RM 635.42 (8'10")



0' 30' 60'
SCALE IN FEET

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION

SITE DEVELOPMENT FOR
BAYSIDE MACHINE CORPORATION
CITY OF DE PERE
BROWN COUNTY, WISCONSIN

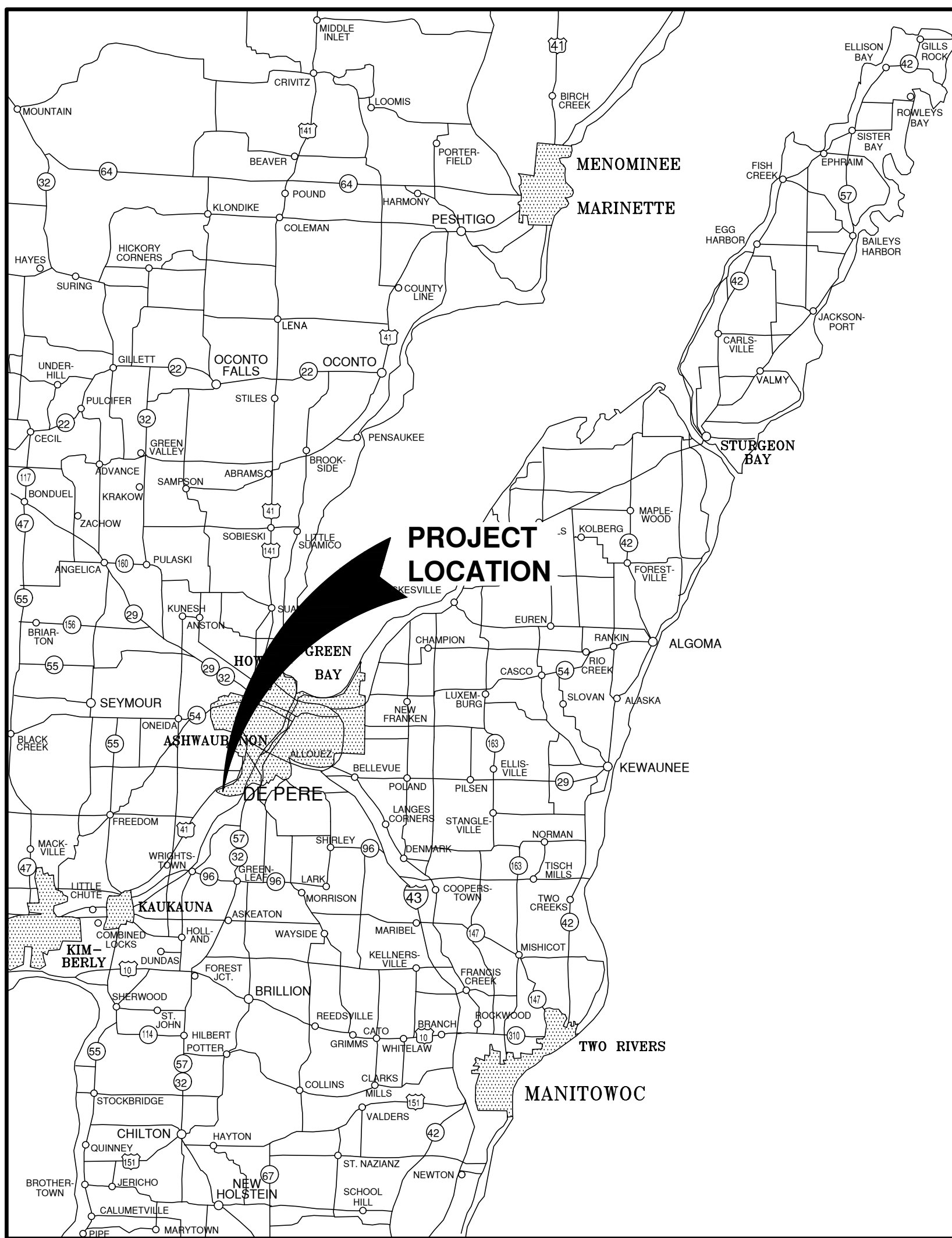
GRADING AND EROSION CONTROL PLAN

DATE: 01-20-20
FILE: 10000000
JOB NO: 10000000
Robert E. Lee & Associates, Inc.
ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES
1250 CENTINELA CENTRE BOULEVARD HOUSTON, TX 77055
336-862-9643 www.releec.com

SHEET NO: C-4

SITE DEVELOPMENT FOR
BAYSIDE MACHINE CORPORATION
2257 AMERICAN BOULEVARD
CITY OF DE PERE, BROWN COUNTY, WISCONSIN

ATTENTION!
DOWNLOADED PLANS ARE NOT SCALEABLE, NEITHER THE
OWNER OR THE ENGINEER SHALL BE HELD RESPONSIBLE
FOR THE SCALE OR PRINT QUALITY OF DOWNLOADED PLANS.
ONLY PRINTED PLANS FROM BLUE PRINT SERVICE CO., INC.
SHALL BE CONSIDERED TO BE SCALEABLE PLANS.



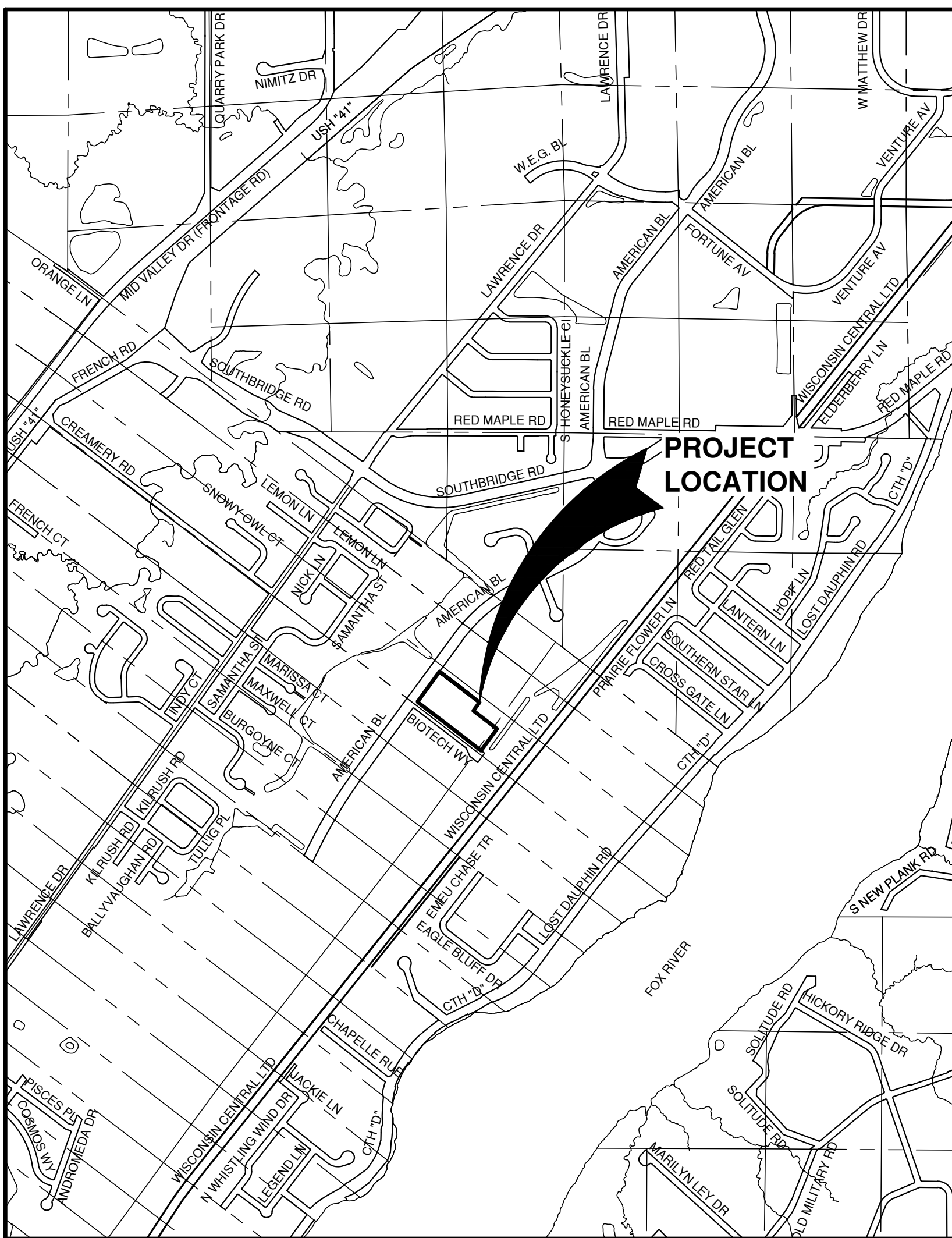
VICINITY MAP

NOTE:
EXISTING UTILITIES SHOWN ON PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE
RESPONSIBLE FOR OBTAINING EXACT LOCATIONS AND ELEVATIONS OF ALL UTILITIES.
WHETHER SHOWN OR NOT, FROM THE OWNERS OF THE RESPECTIVE UTILITIES. ALL UTILITY
OWNERS SHALL BE NOTIFIED FOR LOCATES BY THE CONTRACTOR 72 HOURS PRIOR TO
EXCAVATION.

NOTE:
ALL EROSION CONTROL MEASURES SHALL
BE IN PLACE PRIOR TO CONSTRUCTION
AND SHALL CONFORM TO THE WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
CONSTRUCTION SITE EROSION CONTROL
AND TECHNICAL STANDARDS.

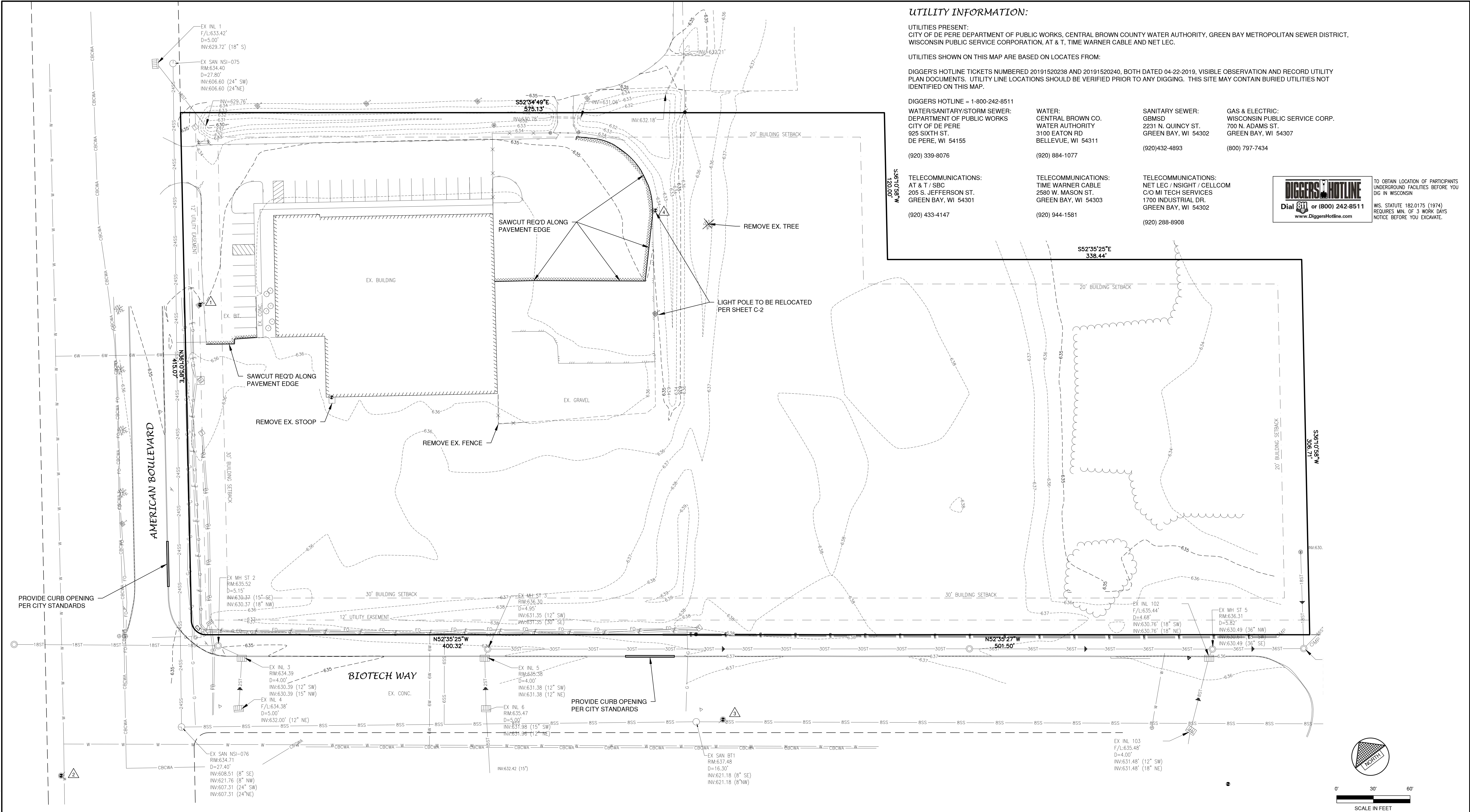
INDEX TO DRAWINGS

SHT. NO.	DESCRIPTION
C-0	LOCATION MAPS AND INDEX TO DRAWINGS
C-1	EXISTING SITE CONDITIONS
C-2	SITE PLAN
C-3	UTILITY PLAN
C-4	GRADING PLAN AND EROSION CONTROL PLAN
C-5	MISCELLANEOUS DETAILS
C-6	EROSION CONTROL - INLET PROTECTION TYPES A, B, C AND D
C-7	EROSION CONTROL - INLET PROTECTION TYPE D-HR AND TYPE D-M
C-8	EROSION CONTROL - DITCH CHECK DETAILS
C-9	EROSION CONTROL - SHEET FLOW DETAILS
C-10	EROSION CONTROL - TRACKOUT CONTROL PRACTICES
C-11	LIGHTING PLAN



LOCATION MAP

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	DRAWN	SITE DEVELOPMENT FOR	DATE	FILE	ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES	SHEET NO.
1	9-18-2022	AJB	REVISED CITY SUBMITTAL									EMK	BAYSIDE MACHINE CORPORATION - 2257 AMERICAN BLVD	01/2020	09080102	1250 CENTENNIAL CENTRE BOULEVARD HOBART, WI 54155	C-0
2	11-3-2023	AJB	REVISED CITY SUBMITTAL									DESIGNED	CITY OF DE PERE		09080101	920-662-9641 www.releinc.com	
												AJB	BROWN COUNTY, WISCONSIN				



UTILITY INFORMATION:

UTILITIES PRESENT:
CITY OF DE PERE DEPARTMENT OF PUBLIC WORKS, CENTRAL BROWN COUNTY WATER AUTHORITY, GREEN BAY METROPOLITAN SEWER DISTRICT, WISCONSIN PUBLIC SERVICE CORPORATION, AT & T, TIME WARNER CABLE AND NET LEC.

UTILITIES SHOWN ON THIS MAP ARE BASED ON LOCATES FROM:

DIGGER'S HOTLINE TICKETS NUMBERED 20191520238 AND 20191520240, BOTH DATED 04-22-2019, VISIBLE OBSERVATION AND RECORD UTILITY PLAN DOCUMENTS. UTILITY LINE LOCATIONS SHOULD BE VERIFIED PRIOR TO ANY DIGGING. THIS SITE MAY CONTAIN BURIED UTILITIES NOT IDENTIFIED ON THIS MAP.

DIGGERS HOTLINE = 1-800-242-8511
WATER/SANITARY/STORM SEWER:
DEPARTMENT OF PUBLIC WORKS
CITY OF DE PERE
925 SIXTH ST.
DE PERE, WI 54155
(920) 339-8076
TELECOMMUNICATIONS:
AT & T / SBC
205 S. JEFFERSON ST.
GREEN BAY, WI 54301
(920) 433-4147
WATER:
CENTRAL BROWN CO.
WATER AUTHORITY
3100 EATON RD
BELLEVUE, WI 54311
(920) 884-1077
TELECOMMUNICATIONS:
TIME WARNER CABLE
2580 W. MASON ST.
GREEN BAY, WI 54303
(920) 944-1581
SANITARY SEWER:
GBMSD
2231 N. QUINCY ST.
GREEN BAY, WI 54302
(920) 432-4893
GAS & ELECTRIC:
WISCONSIN PUBLIC SERVICE CORP.
700 N. ADAMS ST.
GREEN BAY, WI 54307
(800) 797-7434
TELECOMMUNICATIONS:
NET LEC / NSIGHT / CELLCOM
C/O MI TECH SERVICES
1700 INDUSTRIAL DR.
GREEN BAY, WI 54302
(920) 288-8908



TO OBTAIN LOCATION OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN
WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.

OWNER INFORMATION:

BAYSIDE MACHINE CORPORATION
2257 AMERICAN BLVD
DE PERE, WI 54115

(920) 330-9972

CONTACT: ROB SALESKY

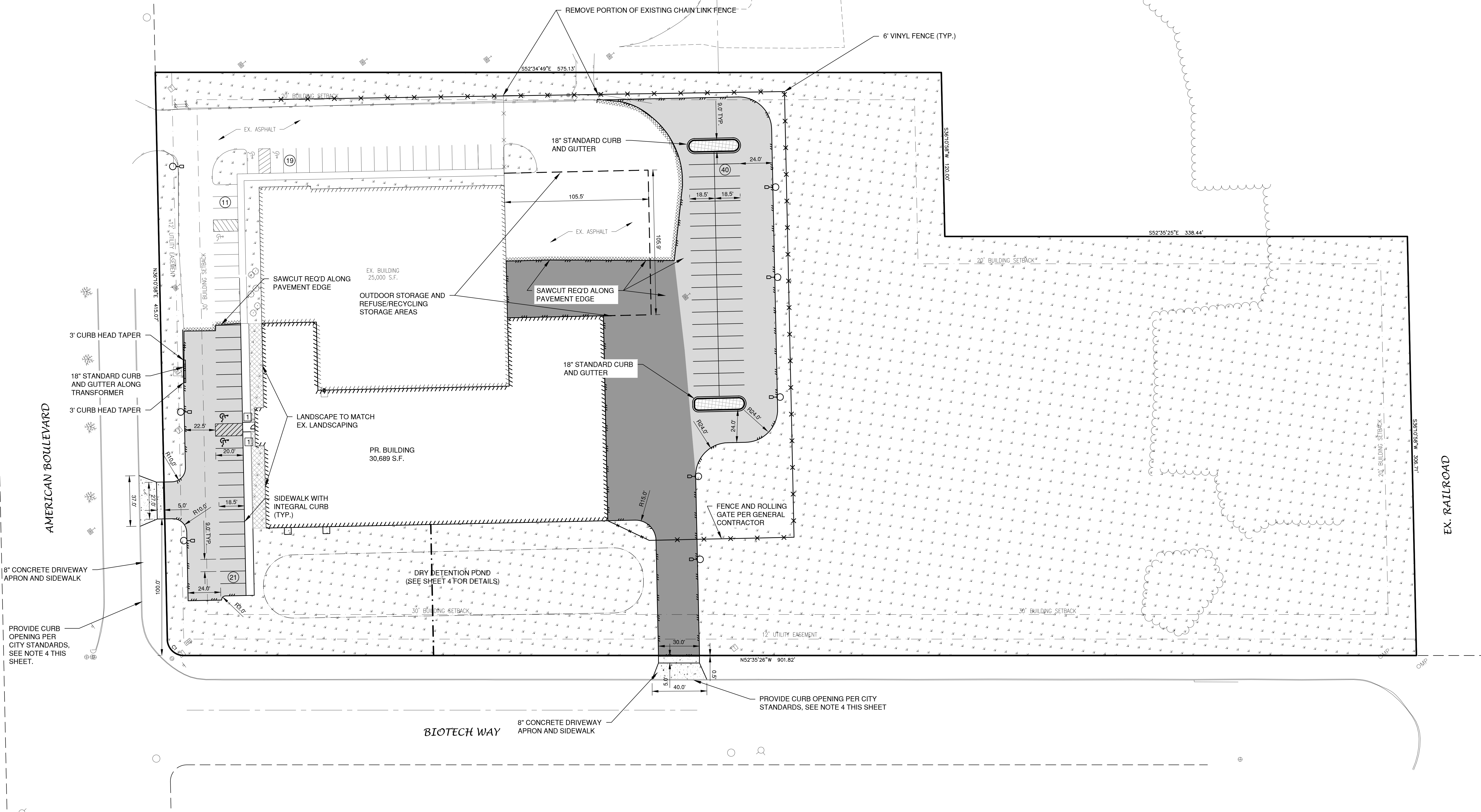
LEGEND

- FIRE HYDRANT
- WATER VALVE/CURB STOP
- WATER MANHOLE
- REDUCER/INCREASER
- SANITARY MANHOLE
- AIR RELIEF MANHOLE
- STORM MANHOLE
- OPEN STORM MANHOLE
- STORM INLET
- STORM INLET MANHOLE
- TANK COVER
- SOIL BORING
- POST
- IRON PIPE/ROD
- PK NAIL
- POWER POLE
- POWER POLE W/GUY WIRE
- LIGHT POLE
- TRAFFIC SIGNAL POLE
- ELECTRIC MANHOLE
- ELECTRIC METER
- TELEPHONE MANHOLE
- TELEPHONE PEDESTAL
- CABLE TV MANHOLE
- CABLE TV PEDESTAL
- GAS VALVE
- GAS METER
- MAILBOX
- SIGN
- BOLLARD
- DECIDUOUS TREE
- CONIFEROUS TREE
- BUSH
- RIP RAP
- CULVERT
- CONCRETE
- WETLANDS
- HANDICAP PARKING
- EDGE OF ASPHALT
- EDGE OF GRAVEL
- CURB & GUTTER
- TREE/BRUSH LINE
- CONTOUR LINE
- RETAINING WALL
- GUARD RAIL
- FENCE
- SANITARY SEWER (SIZE NOTED)
- FORCEMAIN (SIZE NOTED)
- STORM SEWER (SIZE NOTED)
- WATERMAIN (SIZE NOTED)
- GAS LINE
- OVERHEAD TELEPHONE LINE
- UNDERGROUND TELEPHONE LINE
- OVERHEAD ELECTRIC LINE
- UNDERGROUND ELECTRIC LINE
- OVERHEAD CABLE TV LINE
- CABLE TV LINE
- FIBER OPTIC LINE
- R/W LINE
- PROPERTY LINE
- EASEMENT LINE
- BUILDING SETBACK LINE
- SECTION LINE

BENCHMARK			BENCHMARK ESTABLISHED BY: ROBERT E. LEE & ASSOCIATES, INC.
FIELD VERIFY BENCHMARKS FOR ACCURACY.			
NO.	DESCRIPTION	EL.	
1	WEST LIGHT POLE BOLT	638.23	
2	HYDRANT FLAGBOLT	636.64	
3	HYDRANT FLAGBOLT	638.39	
4	EAST LIGHTPOLE BOLT	637.52	

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	DRAWN EMK-LLP	SITE DEVELOPMENT FOR BAYSIDE MACHINE CORPORATION - 2257 AMERICAN BLVD CITY OF DE PERE BROWN COUNTY, WISCONSIN	EXISTING SITE CONDITIONS	DATE 11/20/23 FILE 20230111 JOB NO. 2023001	Robert E. Lee & Associates, Inc. ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES 1250 CENTINEL CENTRE BOULEVARD HOBAT, WI 54155 920-662-9641 www.releinc.com	SHEET NO. C-1
1	9-18-2022	AJB	REVISED CITY SUBMITTAL									CHECKED AIB					
2	11-3-2023	AJB	REVISED CITY SUBMITTAL									DESIGNED AIB					

File: C:\Users\jag8171\OneDrive\Documents\Bayside Machine\Bayside Machine.dwg
Plot Date: Dec 22, 2023 11:58:38 AM
User: jag8171

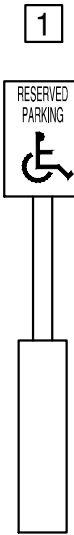


NOTES

- ALL DISTURBED AREAS SHALL BE TOPSOILED TO A DEPTH OF 6 INCHES, SEEDED AND MULCHED. AREA TO BE RAKED FREE OF STONES AND CLUMPS.
- ALL PAVEMENT MARKINGS TO BE 4" PAVEMENT MARKINGS.
- CONCRETE WORK IN THE RIGHT-OF-WAY NEEDS TO BE COMPLETED BY A LICENSED CONCRETE WORKER. CONCRETE WORKERS LICENSES CAN BE OBTAINED THROUGH DE PERE PUBLIC WORKS AT (920) 339-4061.
- CURB CUTS ARE TO BE MADE WITH A HYDRAULIC MOUNTED CURB CUT MACHINE. BREAKING OFF THE CURB HEAD AT THE FLOW LINE WILL NOT BE PERMITTED AND WILL RESULT IN FULL CURB AND GUTTER REPLACEMENT

LEGEND

- CONCRETE PAVEMENT
- ASPHALT PAVEMENT (LIGHT) (25,330 S.F.)
- ASPHALT PAVEMENT (HEAVY) (16,936 S.F.)
- LANDSCAPE AREA
- GREEN SPACE
- TRAFFIC FLOW ARROW
- HANDICAPPED PARKING
- INDICATES NUMBER OF PARKING STALLS
- LIGHT POLE (SEE LIGHTING PLAN)



PARKING DATA

TOTAL PARKING STALLS PROVIDED = 91 (56 EXISTING)
HANDICAP ACCESSIBLE PARKING STALLS = 5
TOTAL PARKING STALLS REQUIRED:

$$\begin{array}{rcl} 1 \text{ STALL} & + & 1 \text{ STALL} & + & 1 \text{ STALL} \\ 1.5 \text{ EMPLOYEES} & & 400 \text{ SF OFFICE SPACE} & & \text{VISITOR} \\ \hline 1 \text{ STALL} & & 40 \text{ EMPLOYEES} & + & 1 \text{ STALL} \\ 1.5 \text{ EMPLOYEES} & & 400 \text{ SF OFFICE SPACE} & & 10,250 \text{ SF} \\ \hline 27 & + & 27 & = & 54 \end{array}$$

ZONING

BP-2

PARCEL NO.

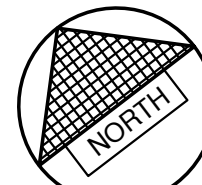
WD-1371

ADDRESS

2257 AMERICAN BLVD
DE PERE, WI 54115

SITE DATA

TOTAL AREA = 8.02 ACRES, 349,138 S.F.
BUILDING AREA = 1.29 ACRES, 55,689 S.F. (16.1%)
SIDEWALK/PARKING LOT AREA = 1.79 ACRES, 78,289 S.F. (22.3%)
GREEN SPACE = 4.94 ACRES, 215,160 S.F. (61.6%)



0' 30' 60'
SCALE IN FEET

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	DRAWN	SITE DEVELOPMENT FOR	DATE	SHEET NO.
1	9-18-2022	AJB	REVISED CITY SUBMITTAL									LLP	BAYSIDE MACHINE CORPORATION - 2257 AMERICAN BLVD	01/2020	C-2
2	11-5-2022	AJB	STAFF COMMENTS									CHEKED	CITY OF DE PERE	FILE	
												DESIGNED	BROWN COUNTY, WISCONSIN	09890110	
												AJB		JOB NO.	
														0989001	



Robert E. Lee & Associates, Inc.
ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES
1250 CENTENNIAL CENTRE BOULEVARD HOBART, WI 54155
920-662-9641 www.releinc.com



8' Tall Outdoor Storage Fence Sample.
Fence boundary shown on Sheet C-2.
Color Woodland Brown.



Top Rail



Interlocking Pickets



Fence Bracket & Post



Bottom Rail & Cover

Trex®
OUTDOOR LIVING. DEFINED.
Visit
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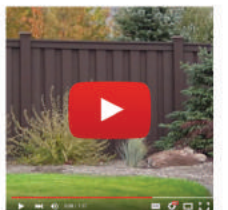
REFINED BEAUTY.
DURABILITY.
PRIVACY.



Trex Seclusions®
COMPOSITE FENCING SYSTEM

BEAUTY AND PRIVACY FROM EVERY ANGLE

Make your backyard a true masterpiece. Frame it with Trex Seclusions®. This composite fencing system offers the perfect backdrop to compliment any backyard paradise. With lasting beauty and low maintenance, it's the perfect fencing solution.



Learn more at
trexfencing.com/videos



Whether the goal is privacy, safety, or a stunning garden backdrop, a Trex fence makes for grateful neighbors indeed. It is used throughout the country for more than just residential properties. Quality and scalability make Trex fencing a superb choice for commercial and governmental projects as well.



High performance

- >> Never needs painting or staining
- >> Resists insect damage and won't warp, rot, or splinter
- >> Installs quickly and easily with an interlocking picket system
- >> Withstands winds up to 130 mph
- >> Customizable for height (up to 12ft), style, and slope

Perennial beauty

- >> Three rich, natural colors that compliment any landscape
- >> Board-on-board look; same on both sides

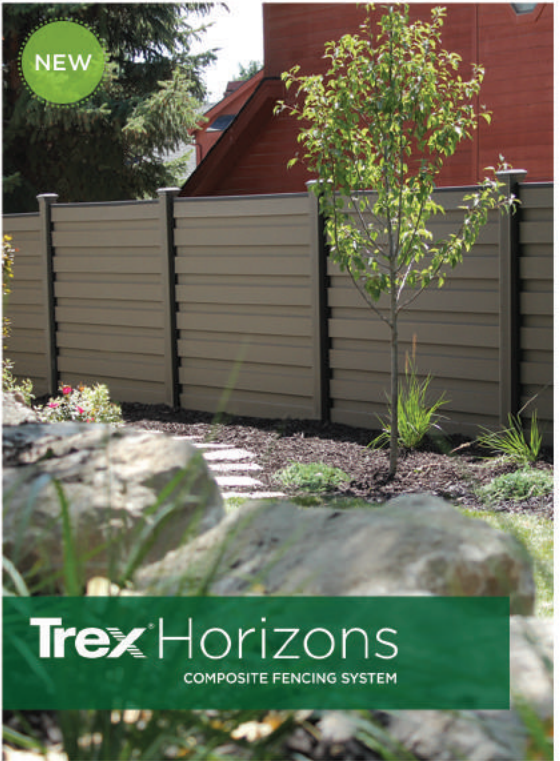
Trex through and through

- >> Contains 95% recycled materials
- >> Backed by the Trex 25-year Residential and 10-year Commercial Limited Warranties

NATURAL MATTE COLOR FINISHES

SADDLE		WINCHESTER GREY	
COLOR WHEN NEW	COLOR AFTER WEATHERING	COLOR WHEN NEW	COLOR AFTER WEATHERING

WOODLAND BROWN		POST CAP STYLES	
COLOR WHEN NEW	COLOR AFTER WEATHERING	 CROWN	
		 FLAT	 PYRAMID



Trex Horizons
COMPOSITE FENCING SYSTEM

A NEW DAWN FOR SMART DESIGN Simple and eye-catching, Trex Horizons is also low-maintenance. It's one more way Trex is taking a modern approach to backyard living.



SHEET NO.
C-3

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AMERICAN BOULEVARD

BIOTECH WAY

LEGEND

T/C 999.99 TOP OF CURB ELEVATION
F/L 888.88 FLOW LINE ELEVATION
S/W 666.66 TOP OF SIDEWALK ELEVATION
E/P 555.55 EDGE OF PAVEMENT ELEVATION
R/W 444.44 TOP OF RETAINING WALL ELEVATION
333.33 GROUND ELEVATION

--- DRAINAGE SWALE
--- DRAINAGE DIVIDE
--- FLOW ARROW
x SILT FENCE (PER WDNR TECHNICAL STANDARD 1056)
DITCH CHECK (PER WDNR TECHNICAL STANDARD 1062)
TRACKING PAD (PER WDNR TECHNICAL STANDARD 1057)
EROSION MAT (PER WDNR TECHNICAL STANDARD 1053)
INLET PROTECTION (PER WDNR TECHNICAL STANDARD 1060)

EROSION CONTROL

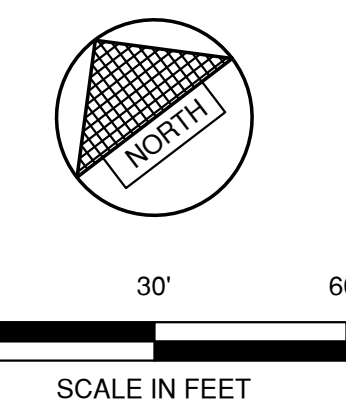
ALL EROSION CONTROL PRACTICES INDICATED ON THIS PLAN ARE APPROXIMATE LOCATIONS ONLY. THE ACTUAL SITE MAY REQUIRE MORE OR LESS EROSION CONTROL DEPENDING ON THE CURRENT CONDITION OF THE SITE.

1. SILT FENCE IS REQUIRED DOWNSLOPE OF ANY DISTURBED LAND THAT MAY CARRY SEDIMENTS OFF SITE.
2. A TRACKING PAD IS REQUIRED AT ANY INGRESS/EGRESS LOCATION, WHERE SEDIMENT MAY BE TRACKED OFF-SITE.
3. PROPER INLET PROTECTION SHALL BE USED DEPENDING ON THE INLET TYPE.
4. ALL NECESSARY SITE DETERMINATION SHALL BE PERFORMED IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1061.

CONSTRUCTION SEQUENCE

1. INSTALL EROSION CONTROL BMP'S SUCH AS SILT FENCE, INLET PROTECTION, AND TRACKING CONTROL PADS PRIOR TO ANY SITE DISTURBANCE.
2. PLACE FILL MATERIAL, COMPACT, AND GRADE AS NECESSARY FOR BUILDING AND PARKING LOT. EXCAVATE FOR BUILDING FOUNDATION AND BEGIN BUILDING CONSTRUCTION.
3. EXCAVATE DRY DETENTION POND AREAS AND INSTALL ALL NECESSARY SITE UTILITIES.
4. PLACE GRAVEL BASE COURSE AND CONSTRUCT PARKING LOT.
5. COMPLETE REMAINING BUILDING AND PAVE PARKING LOT.
6. TOPSOIL, SEED, AND MULCH OR E-MAT TO STABILIZE ALL REMAINING DISTURBED AREAS AS SOON AS FINAL GRADING IS COMPLETED.
7. ONCE SITE VEGETATION HAS REACHED 70%, ALL EROSION CONTROL BMP'S MAY BE REMOVED.

EX SAN 612
RM=635.25
D=11.83'
INV=623.42 (6'NW)



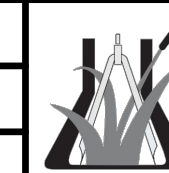
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1	11-5-2022	AJB	STAFF COMMENTS								

DRAWN
CHECKED
DESIGNED
AJB

SITE DEVELOPMENT FOR
BAYSIDE MACHINE CORPORATION - 2257 AMERICAN BLVD
CITY OF DE PERE
BROWN COUNTY, WISCONSIN

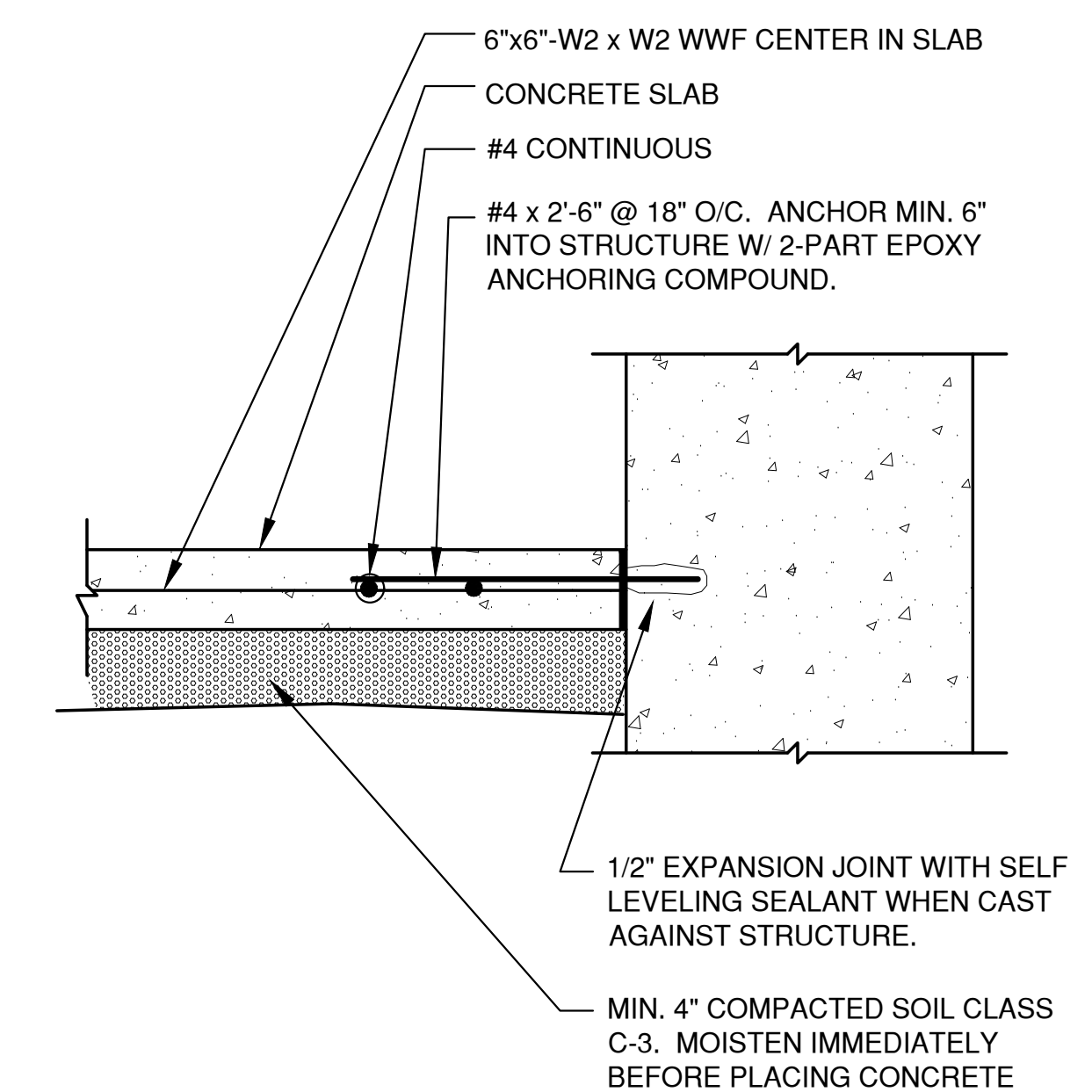
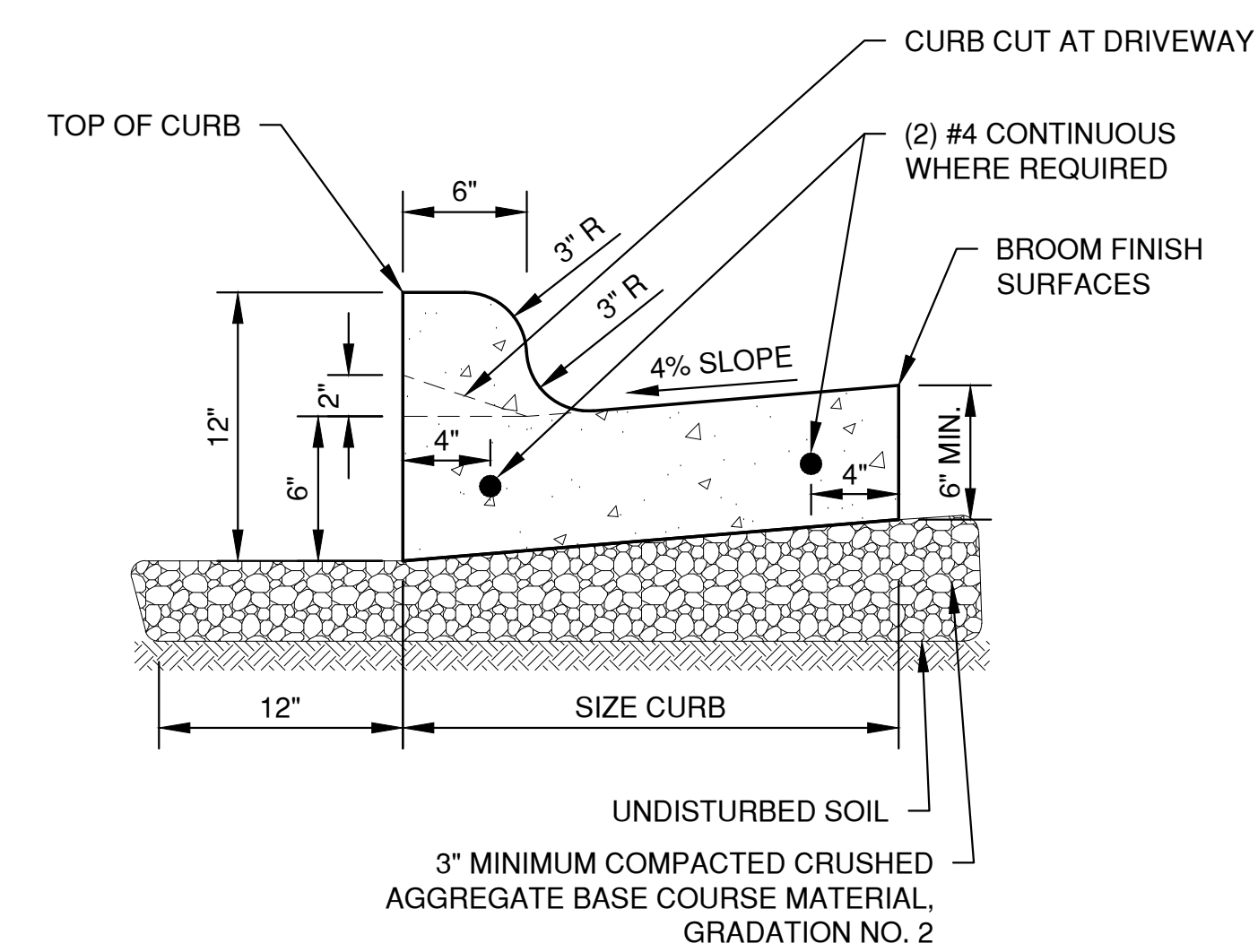
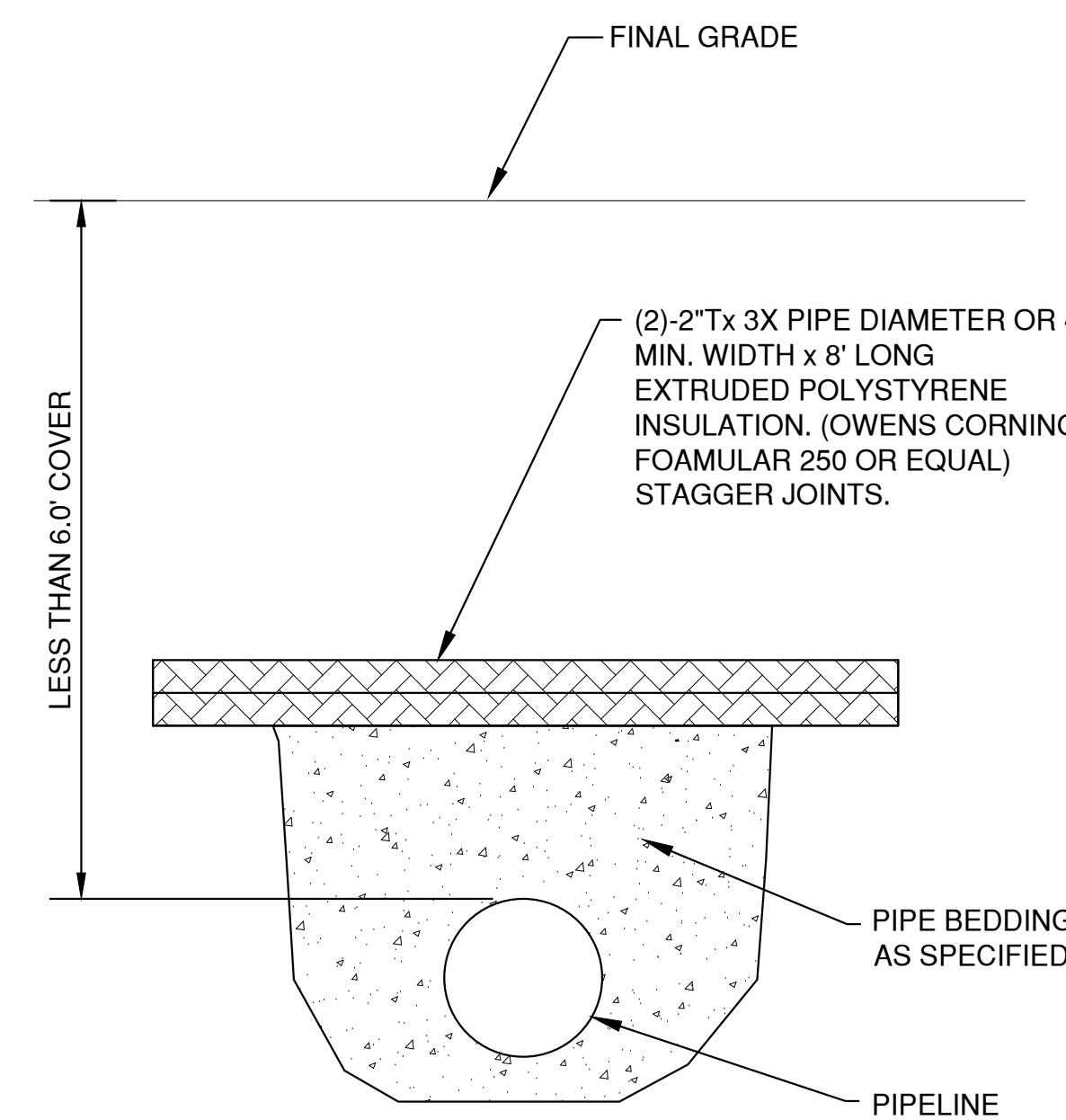
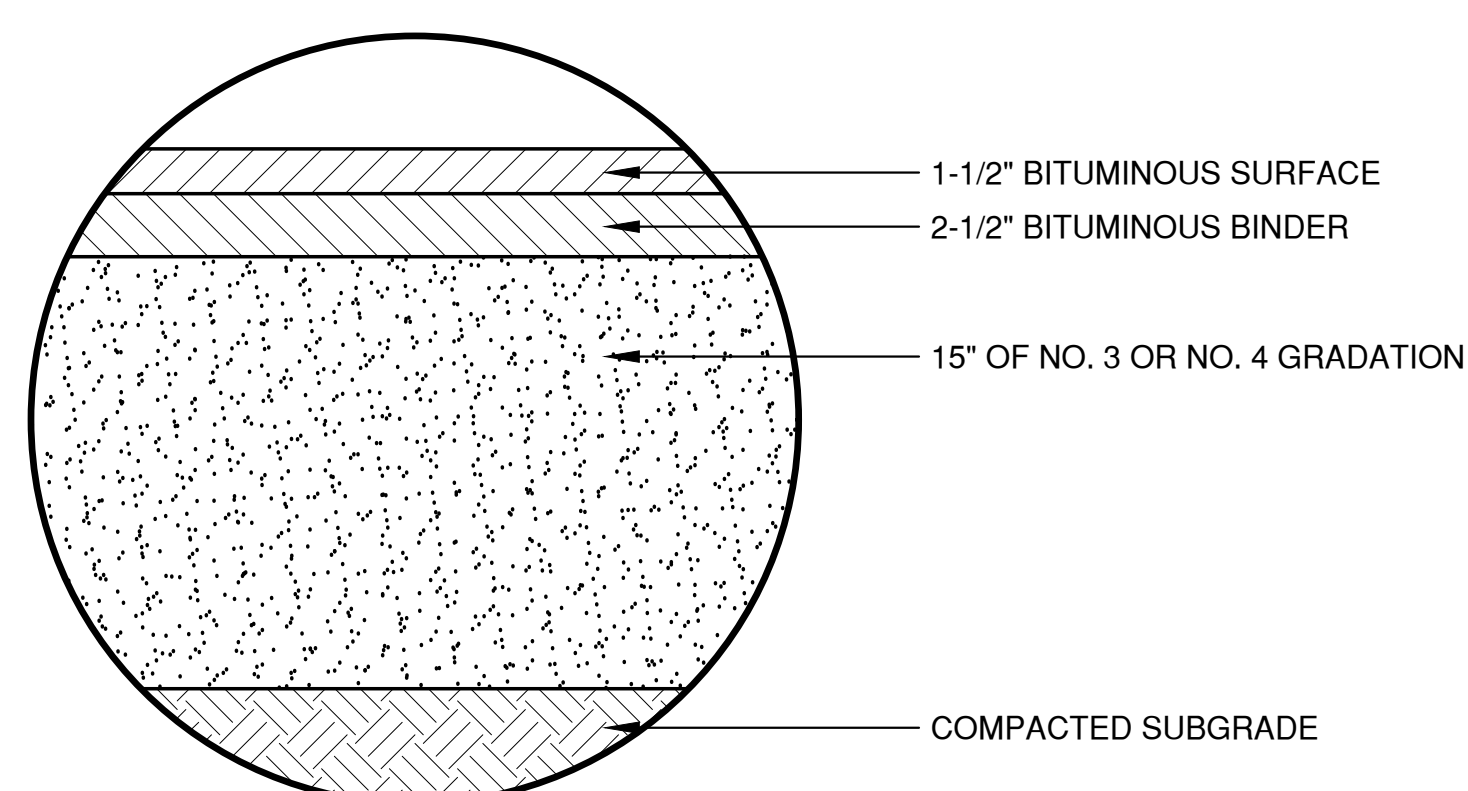
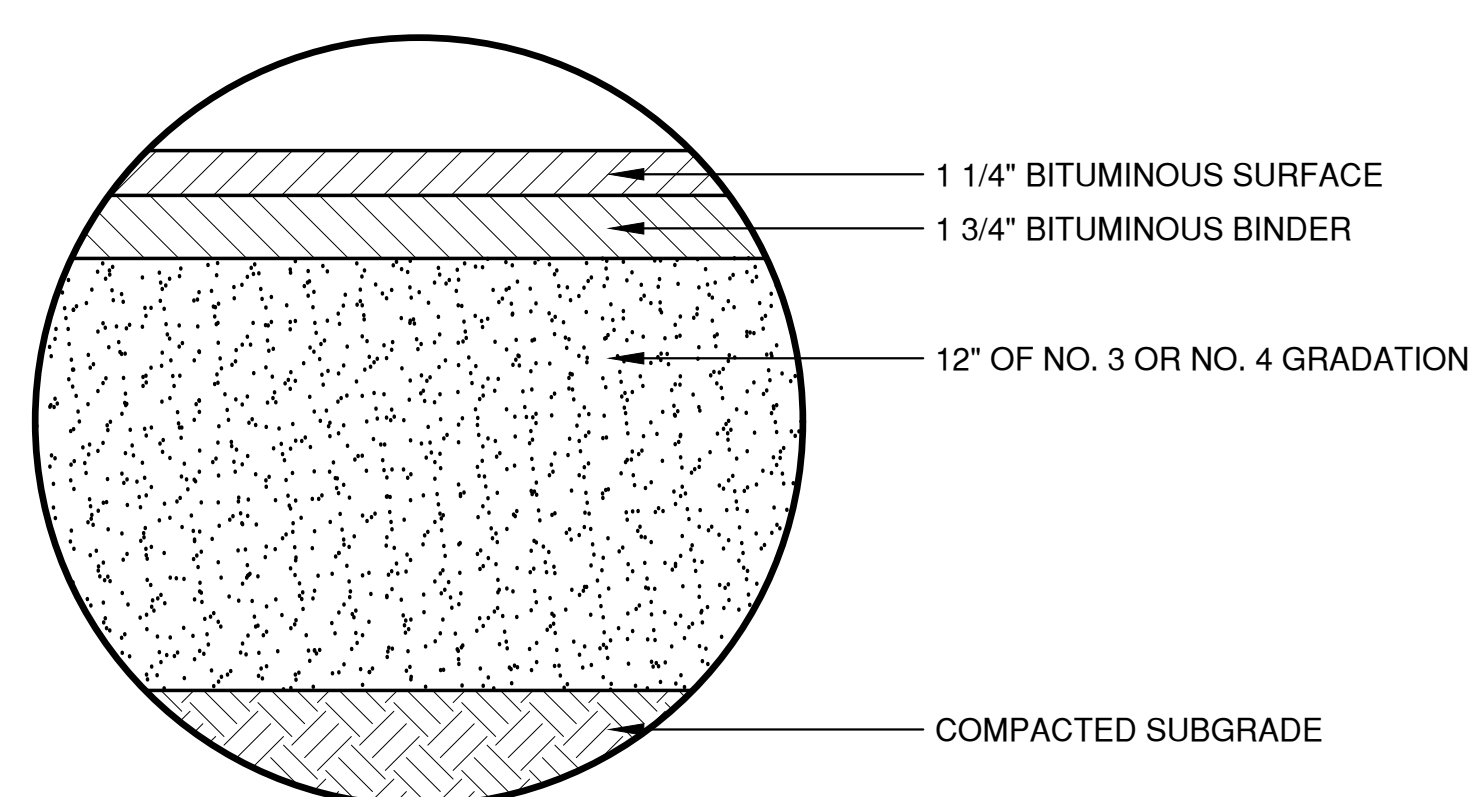
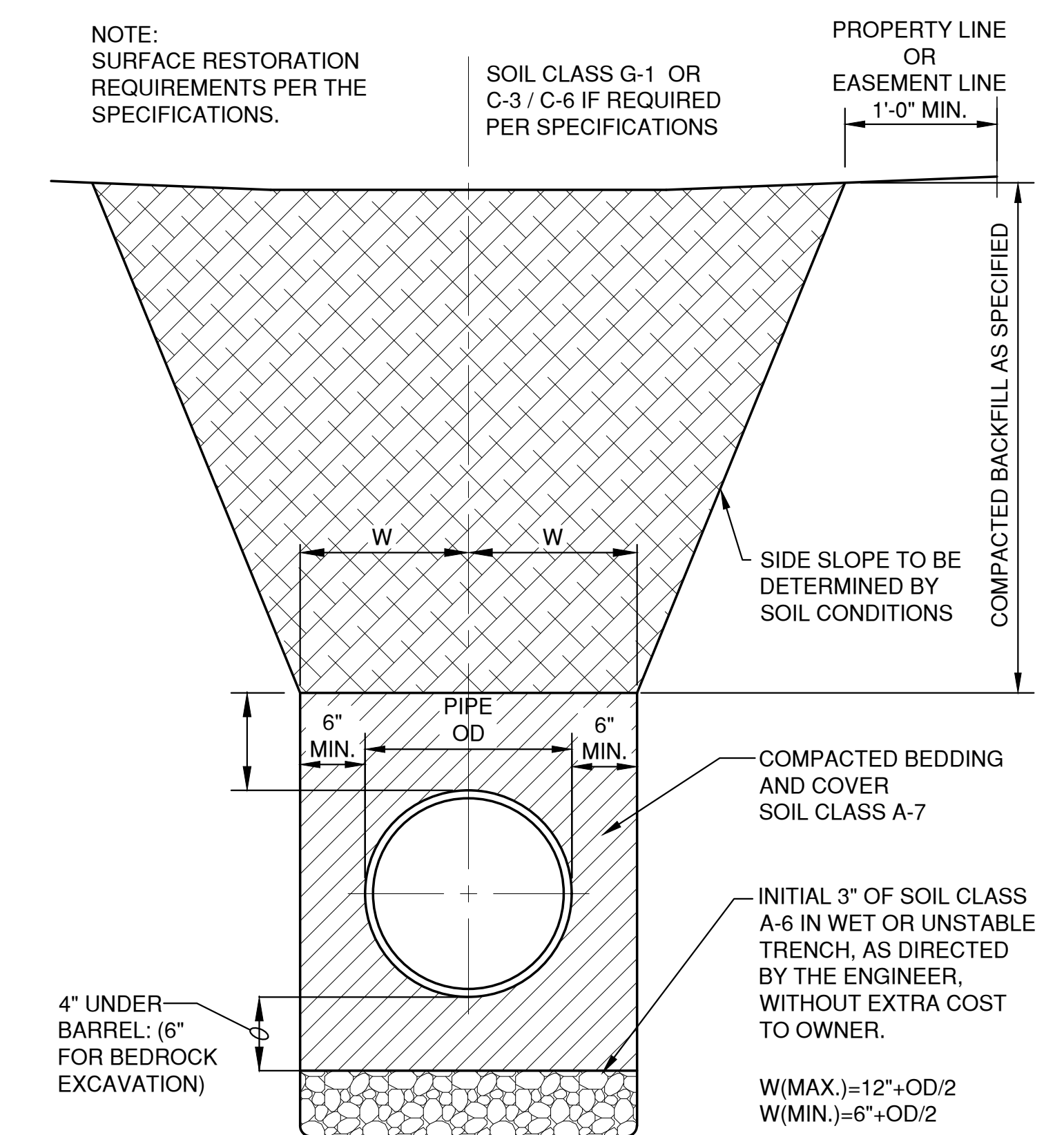
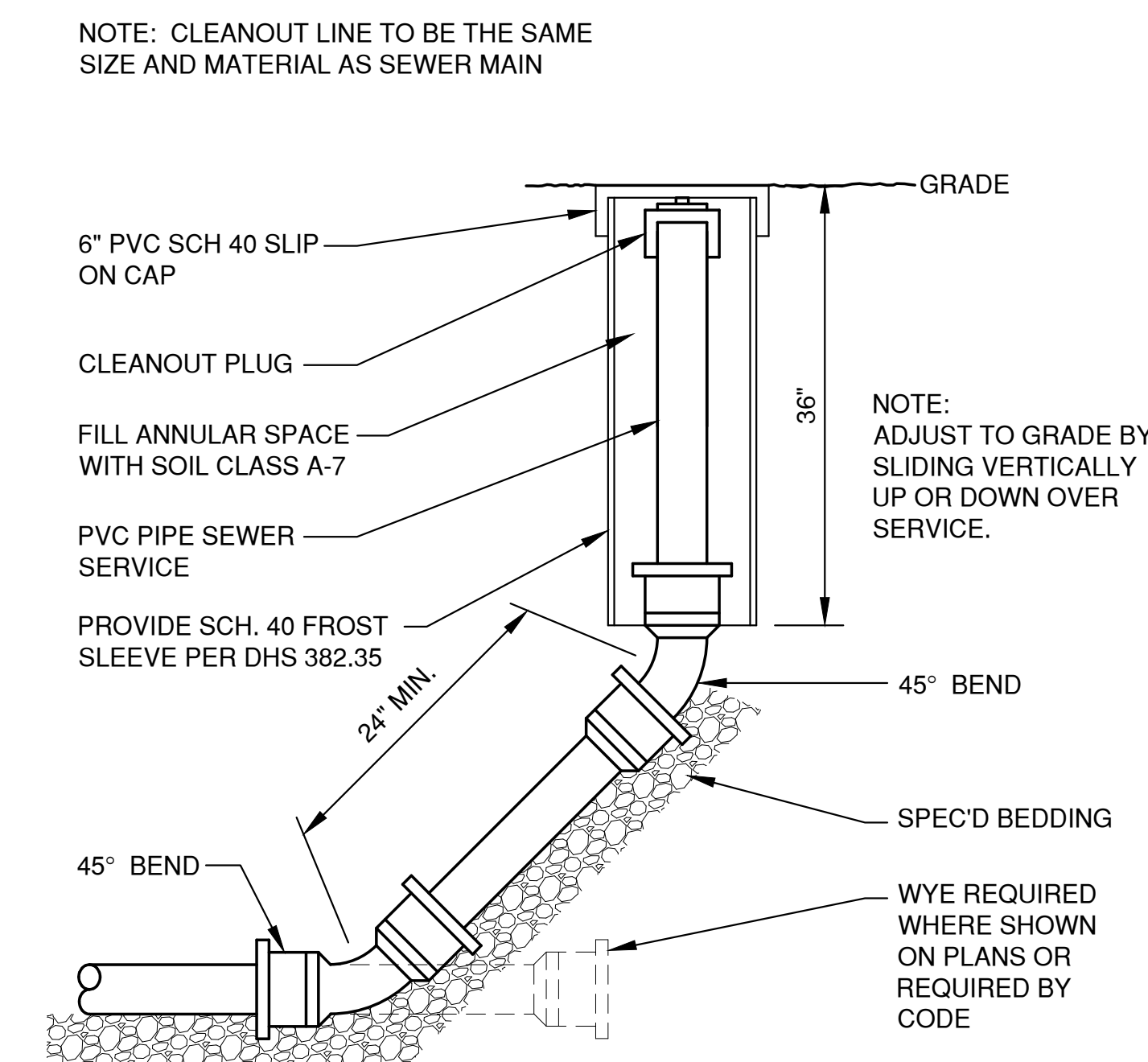
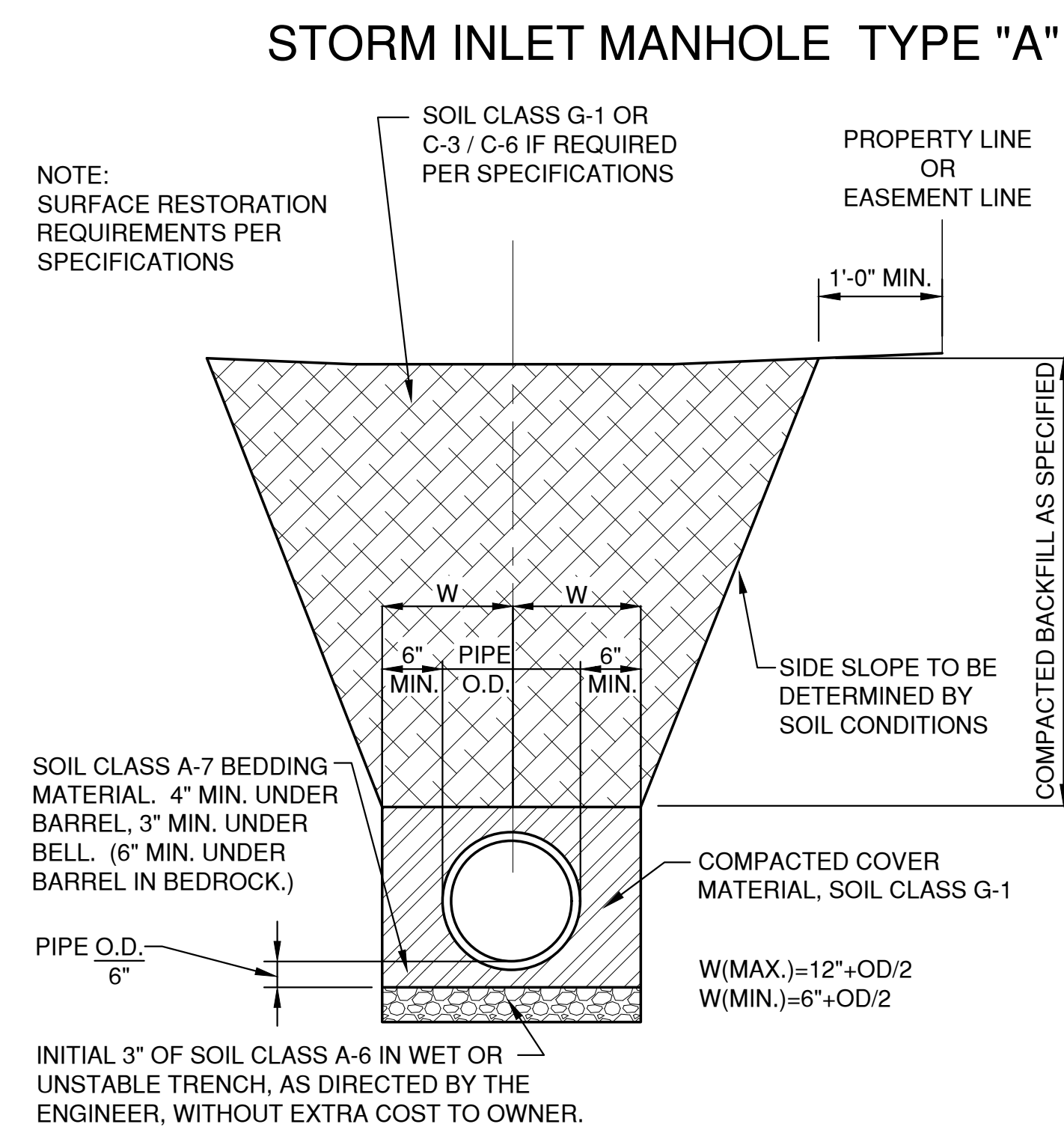
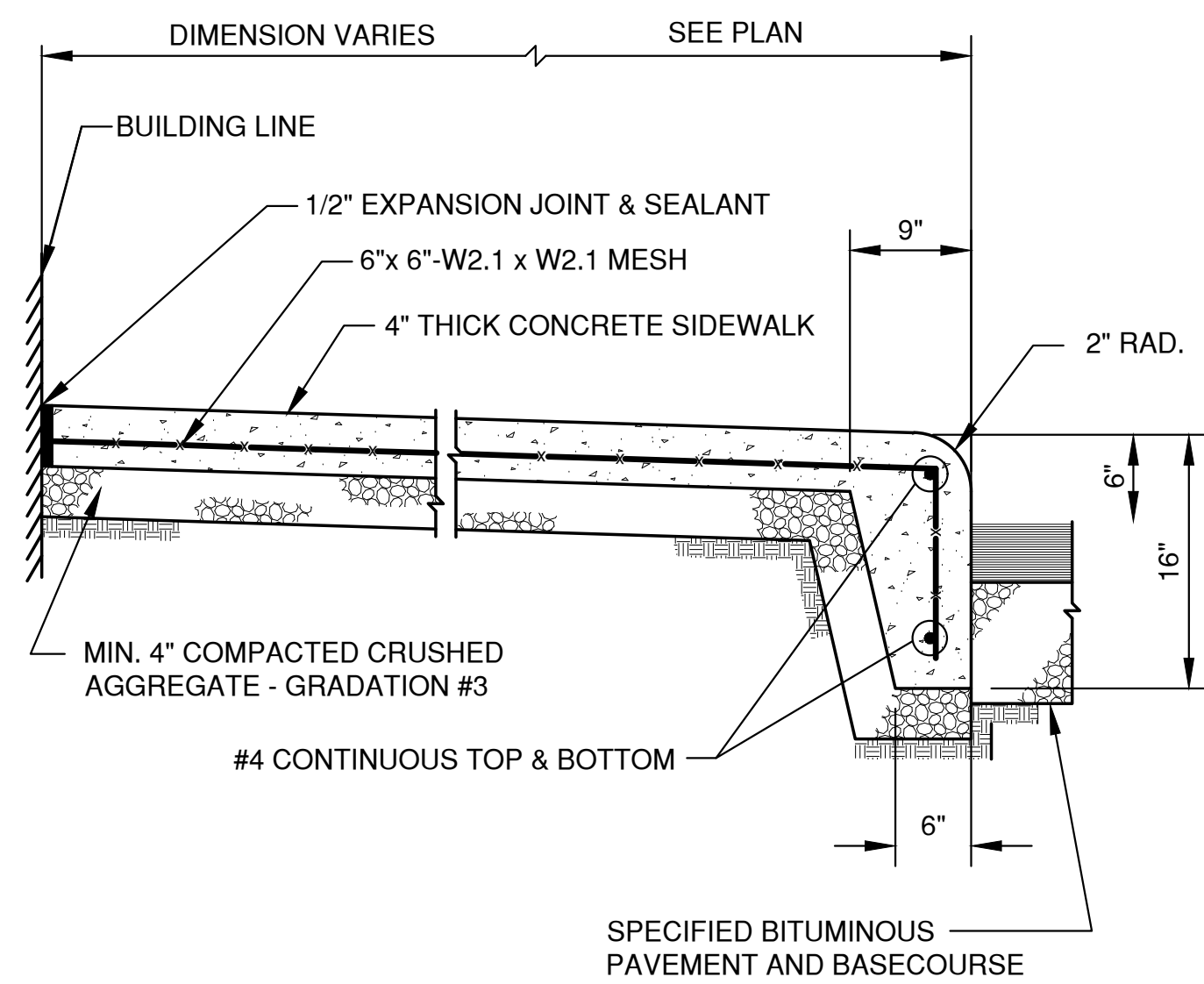
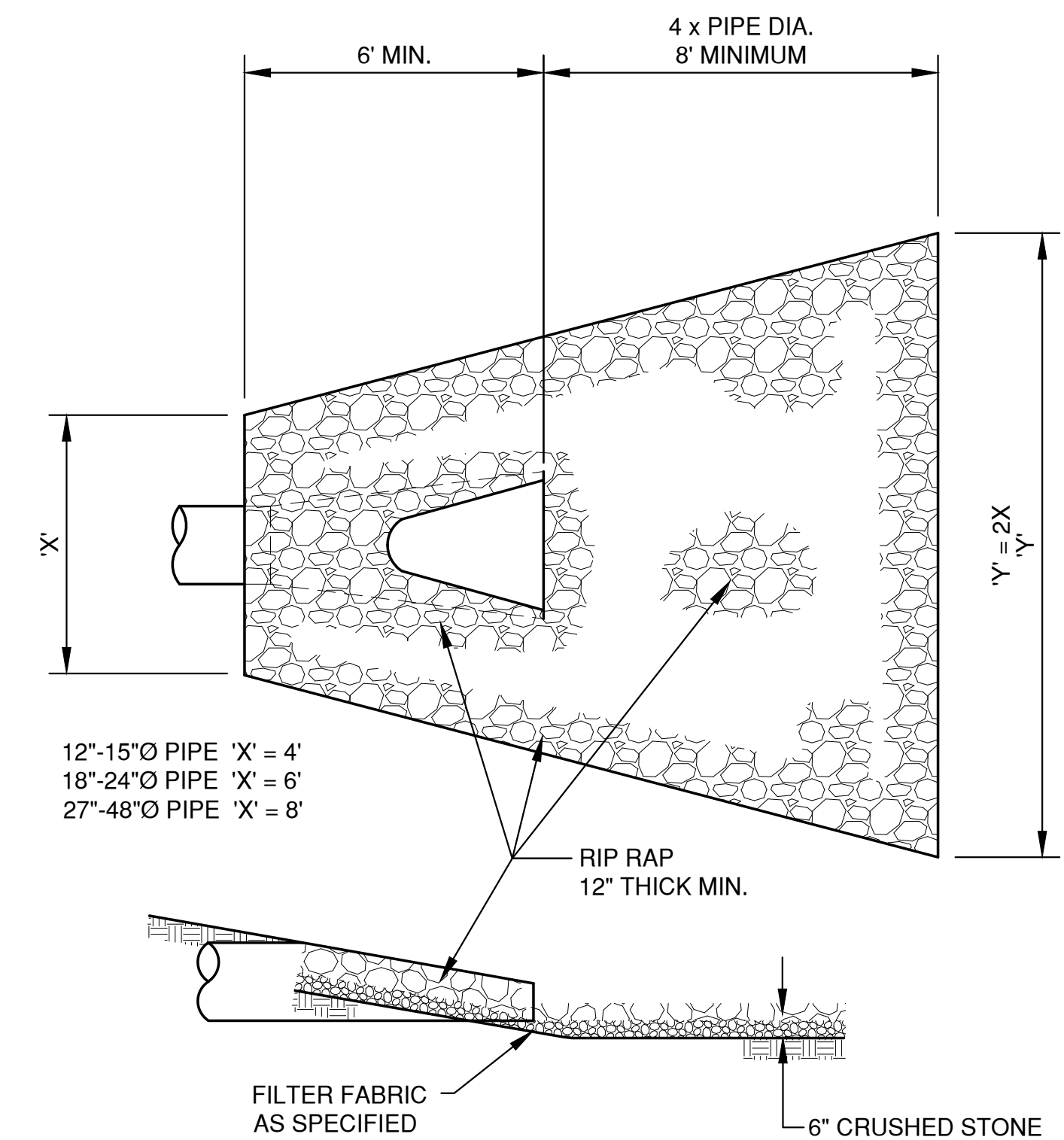
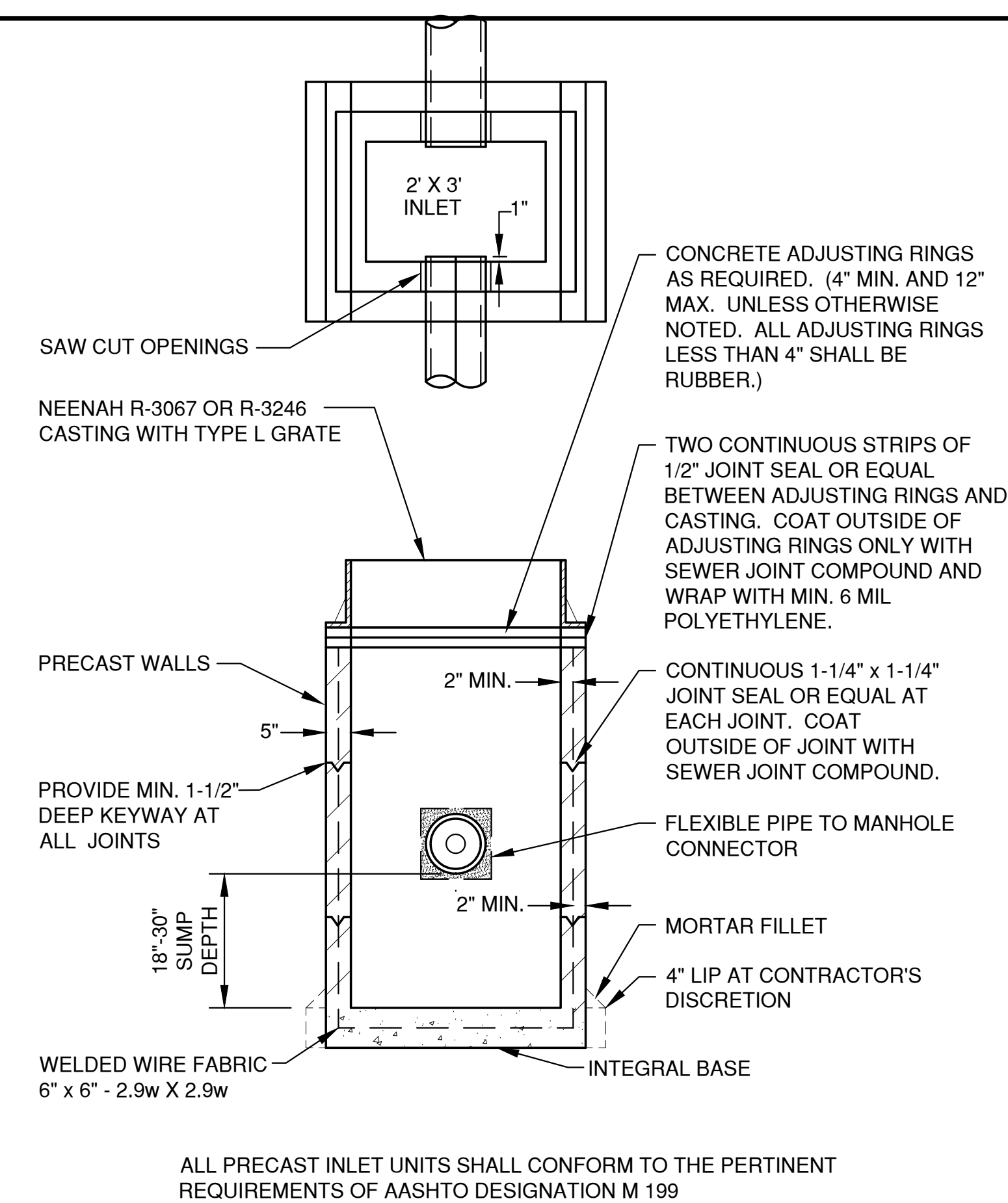
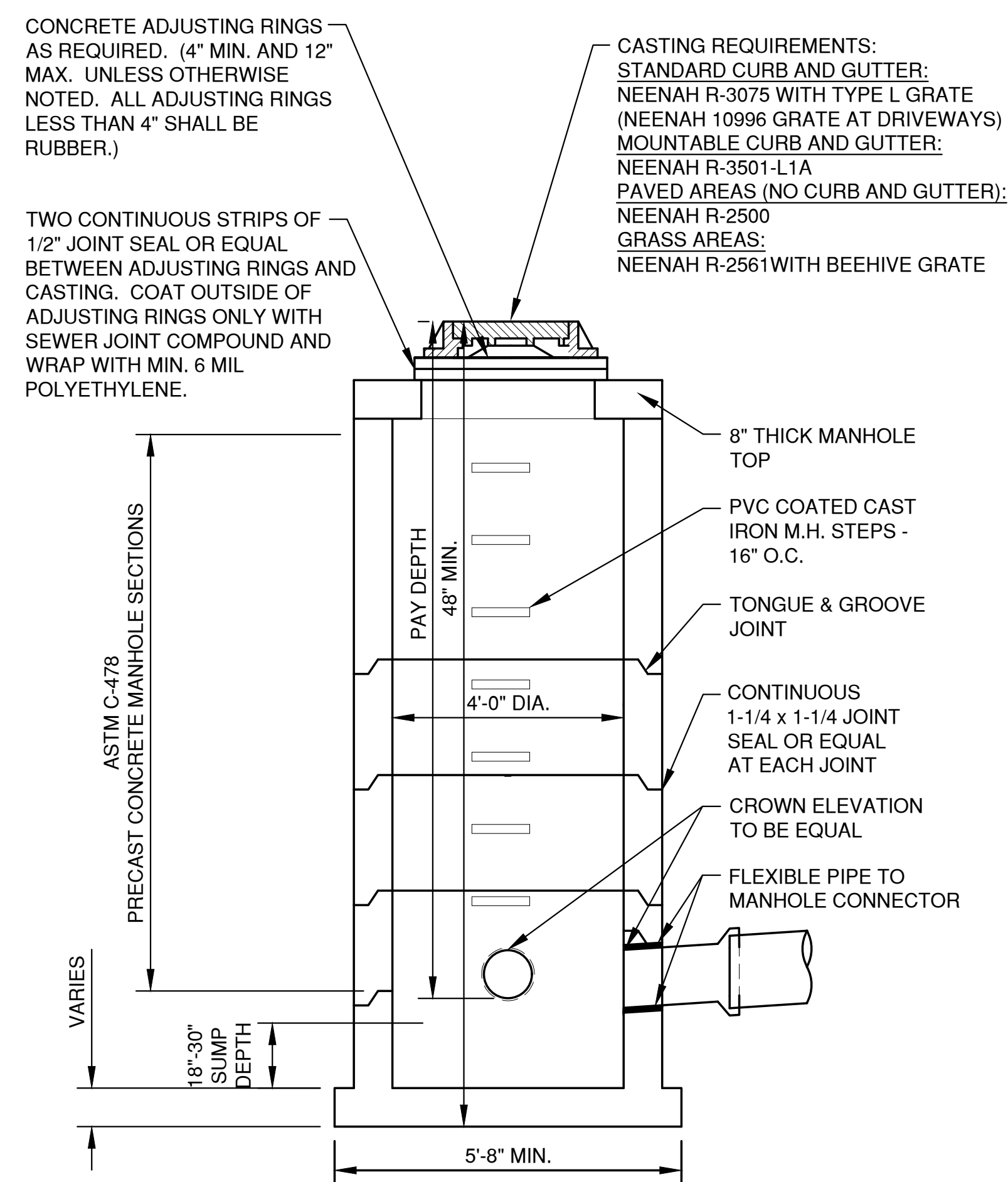
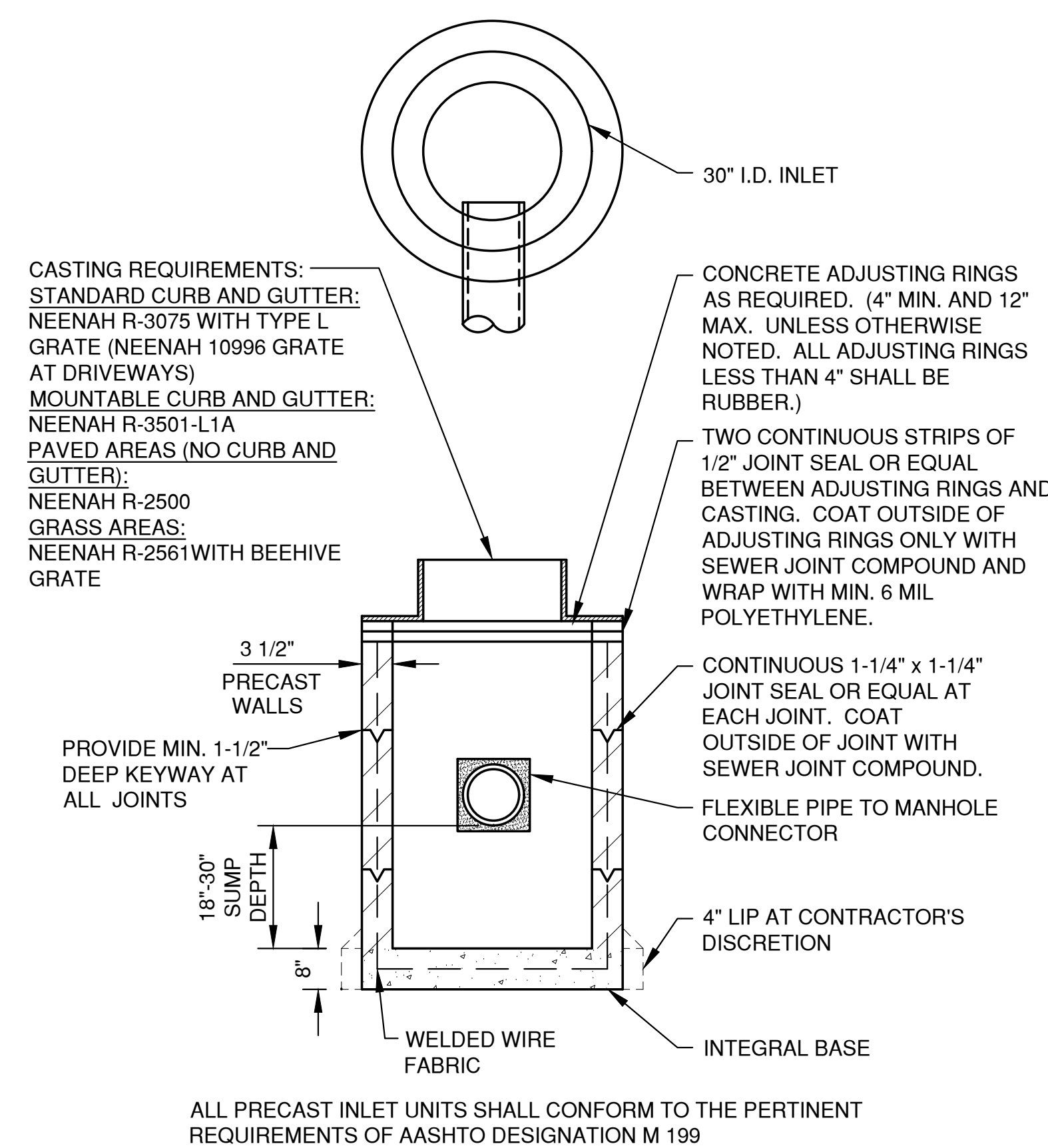
GRADING AND EROSION CONTROL PLAN

DATE
FILE
JOB NO.



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1250 CENTENNIAL CENTRE BOULEVARD HOBBART, WI 54155
920-662-9641 www.releinc.com

SHEET NO.
C-4

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INLET PROTECTION NOTES:

INLET PROTECTION DEVICES SHALL BE IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1060, STORM DRAIN INLET PROTECTION FOR CONSTRUCTION SITES.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE WDOT PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

MAINTENANCE NOTES:

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED IN THE FABRIC DOES NOT FALL INTO THE STRUCTURE. MATERIAL THAT HAS FALLEN INTO THE INLET SHALL BE IMMEDIATELY REMOVED.

INSTALLATION NOTES:
TYPE "B" AND "C"

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE "D"

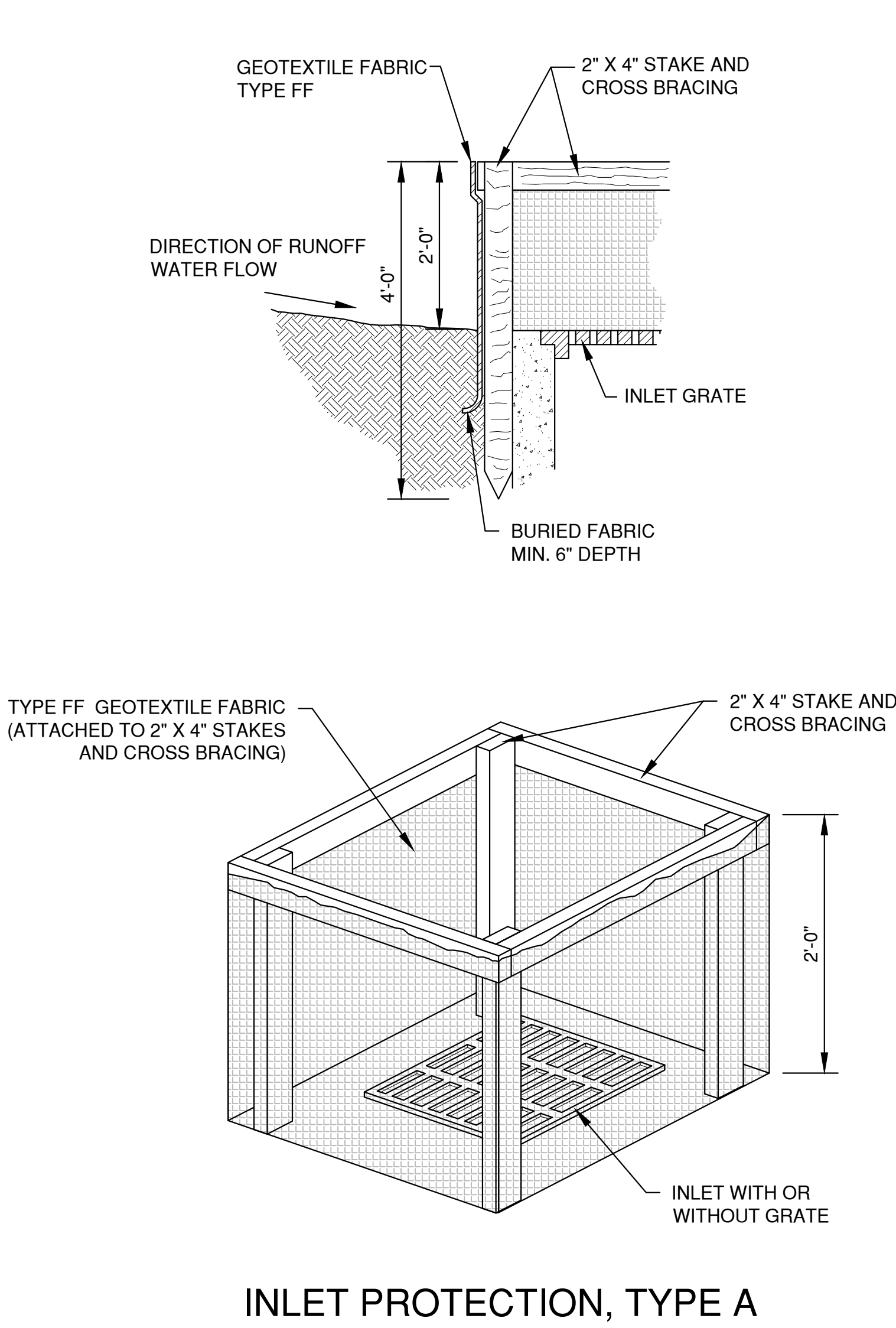
DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30" MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

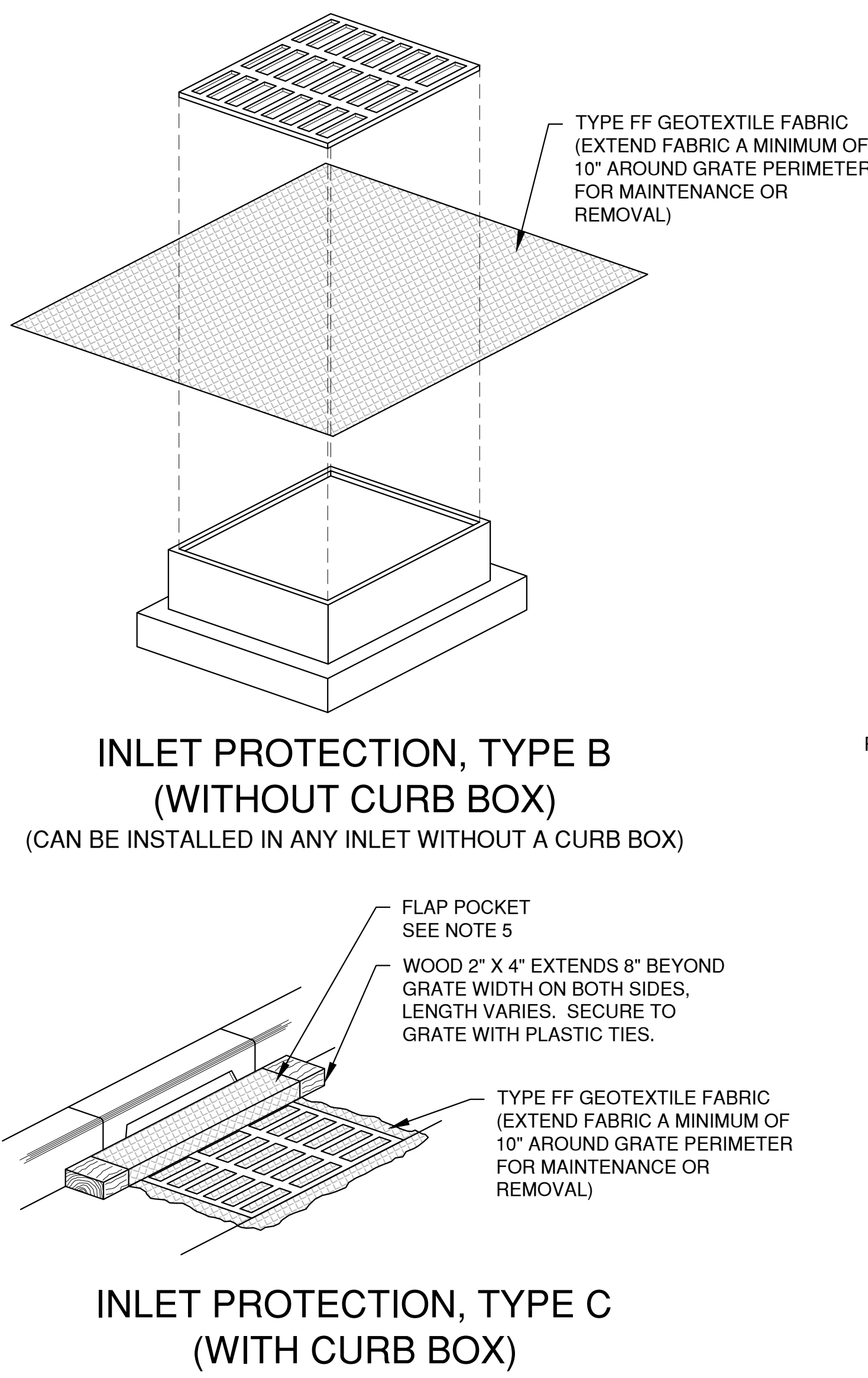
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY, CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE, THE TIES SHALL BE PLACED AT THE MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

NOTES:

1. TAPER BOTTOM OF BAG TO MAINTAIN THREE INCHES OF CLEARANCE BETWEEN THE BAG AND THE STRUCTURE, MEASURED FROM THE BOTTOM OF THE OVERFLOW OPENINGS TO THE STRUCTURE WALL.
2. GEOTEXTILE FABRIC TYPE FF FOR FLAPS, TOP AND BOTTOM OF THE OUTSIDE OF FILTER BAG. FRONT, BACK AND BOTTOM OF FILTER BAG BEING ONE PIECE.
3. FRONT LIFTING FLAP IS TO BE USED WHEN REMOVING AND MAINTAINING FILTER BAG.
4. SIDE FLAPS SHALL BE A MAXIMUM OF TWO INCHES LONG. FOLD THE FABRIC OVER AND REINFORCE WITH MULTIPLE STITCHES.
5. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2" X 4". THE REBAR, STEEL PIPE, OR WOOD SHALL BE INSTALLED IN THE REAR FLAP AND SHALL NOT BLOCK THE TOP HALF OF THE CURB FACE OPENING.



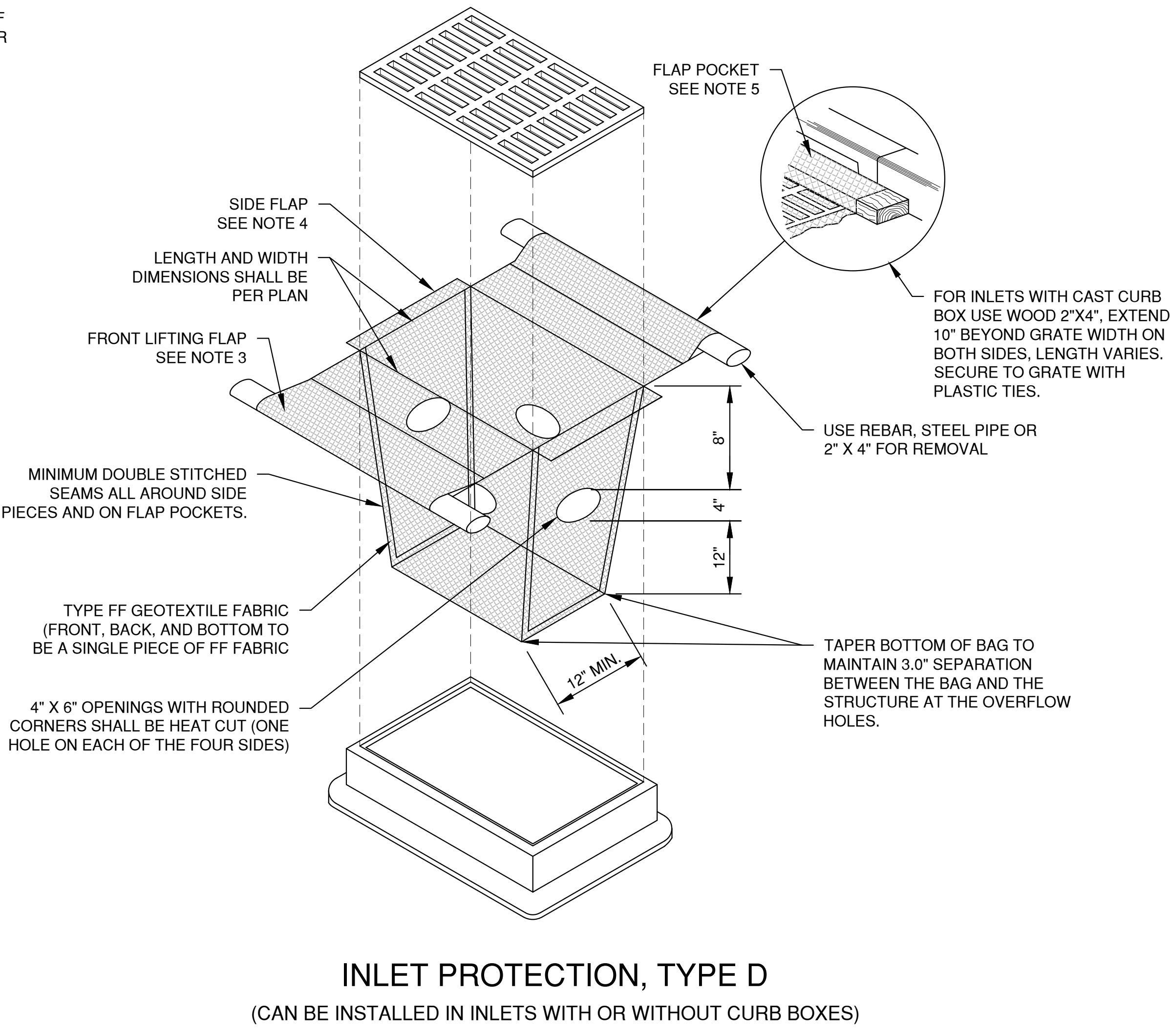
INLET PROTECTION, TYPE A



INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)

INLET PROTECTION, TYPE C
(WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN INLETS WITH OR WITHOUT CURB BOXES)

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1. TAPER BOTTOM OF BAG TO MAINTAIN THREE INCHES OF CLEARANCE BETWEEN THE BAG AND THE STRUCTURE, MEASURED FROM THE BOTTOM OF THE OVERFLOW OPENINGS TO THE STRUCTURE WALL.
2. GEOTEXTILE FABRIC TYPE FF FOR FLAPS AND TOP HALF OF FILTER BAG. GEOTEXTILE FABRIC TYPE HR FOR BOTTOM HALF OF FILTER BAG. FRONT, BACK AND BOTTOM OF FILTER BAG BEING ONE PIECE.
3. FRONT LIFTING FLAP IS TO BE USED WHEN REMOVING AND MAINTAINING FILTER BAG.
4. SIDE FLAPS SHALL BE A MAXIMUM OF TWO INCHES LONG. FOLD THE FABRIC OVER AND REINFORCE WITH MULTIPLE STITCHES.
5. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2" X 4". THE REBAR, STEEL PIPE, OR WOOD SHALL BE INSTALLED IN THE REAR FLAP AND SHALL NOT BLOCK THE TOP HALF OF THE CURB FACE OPENING.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED IN THE FABRIC DOES NOT FALL INTO THE STRUCTURE. MATERIAL THAT HAS FALLEN INTO THE INLET SHALL BE IMMEDIATELY REMOVED.



EXPOSED SOIL TEXTURE	EXPOSED SOIL PARTICLE DIAMETER (Average) (mm)	FILTER FABRIC TYPE*	RECOMMENDED INLET PROTECTION DEVICE TYPE
COARSE (SAND)	≥0.0625	FF	D, D-M
MEDIUM (SILT LOAM)	0.0624 - 0.005	DF	D, D-M
FINE (CLAY)	≤ 0.004	R	D-M
		HR	D-HR

** FOLLOW DESIGN CRITERIA OF WDNR TECHNICAL STANDARD 1060

1. TAPER BOTTOM OF BAG TO MAINTAIN THREE INCHES OF CLEARANCE BETWEEN THE BAG AND THE STRUCTURE, MEASURED FROM THE BOTTOM OF THE OVERFLOW OPENINGS TO THE STRUCTURE WALL.
2. GEOTEXTILE FABRIC TYPE FF FOR FLAPS, TOP AND BOTTOM OF OUTSIDE OF FILTER BAG. FRONT, BACK AND BOTTOM OF FILTER BAG BEING ONE PIECE.
3. FRONT LIFTING FLAP IS TO BE USED WHEN REMOVING AND MAINTAINING FILTER BAG.
4. SIDE FLAPS SHALL BE A MAXIMUM OF TWO INCHES LONG. FOLD THE FABRIC OVER AND REINFORCE WITH MULTIPLE STITCHES.
5. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2" X 4". THE REBAR, STEEL PIPE, OR WOOD SHALL BE INSTALLED IN THE REAR FLAP AND SHALL NOT BLOCK THE TOP HALF OF THE CURB FACE OPENING.





TEMPORARY DITCH CHECK USING EROSION BALES TYPE A



NOTES:

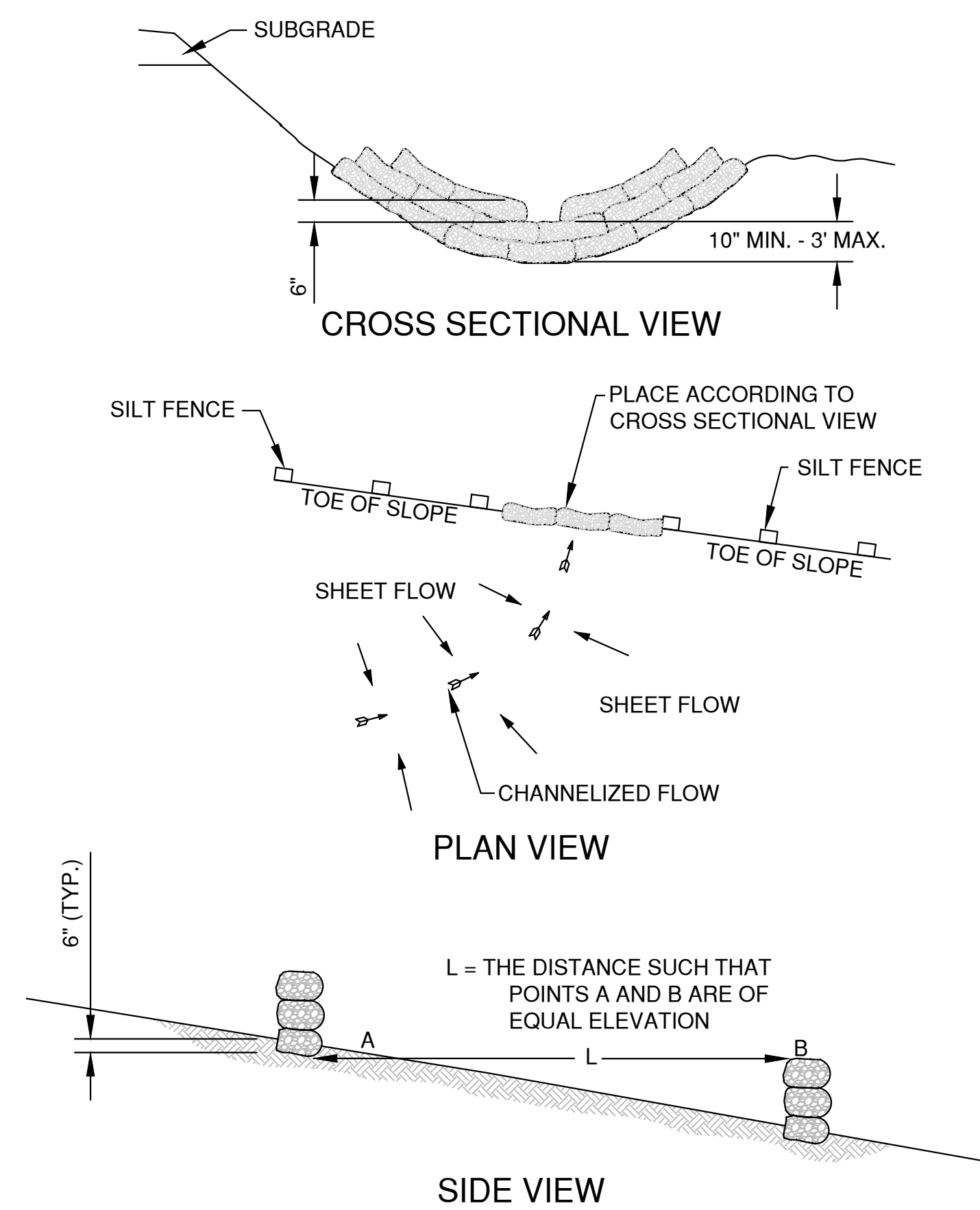
1. 18" X 30" ROCK FILLED FILTER BAG SHALL BE COMPRISED OF THE FOLLOWING:

HDPE HIGH DENSITY POLYETHYLENE
HDPE HIGH DENSITY POLYETHYLENE DRAW STRING KNITTED DIRECTLY
INTO BAG OPENING.
80% FABRIC CLOSURE WITH APPARENT OPENING SIZE NO LARGER THAN
1/8" X 1/8"
ROLLED SEAM USING A MINIMUM OF 480 DENIER POLYESTER
SEWING YARN FOR STRENGTH AND DURABILITY.

2. USE WELL GRADED COURSE AGGREGATE CONFORMING TO THE FOLLOWING GRADATION REQUIREMENTS

SIEVE SIZE	SIZE NO. AASHTO No. 67 (1)
2 INCH (50 mm)	-
1 1/2 INCH (37.5mm)	-
1 INCH (25.0 mm)	100
3/4 INCH (19.0mm)	90-100
3/8 INCH (9.5mm)	20-55
No. 4 (4.75mm)	0-10
No. 8 (2.36mm)	0-5

(1) SIZE No. ACCORDING TO AASHTO M 43

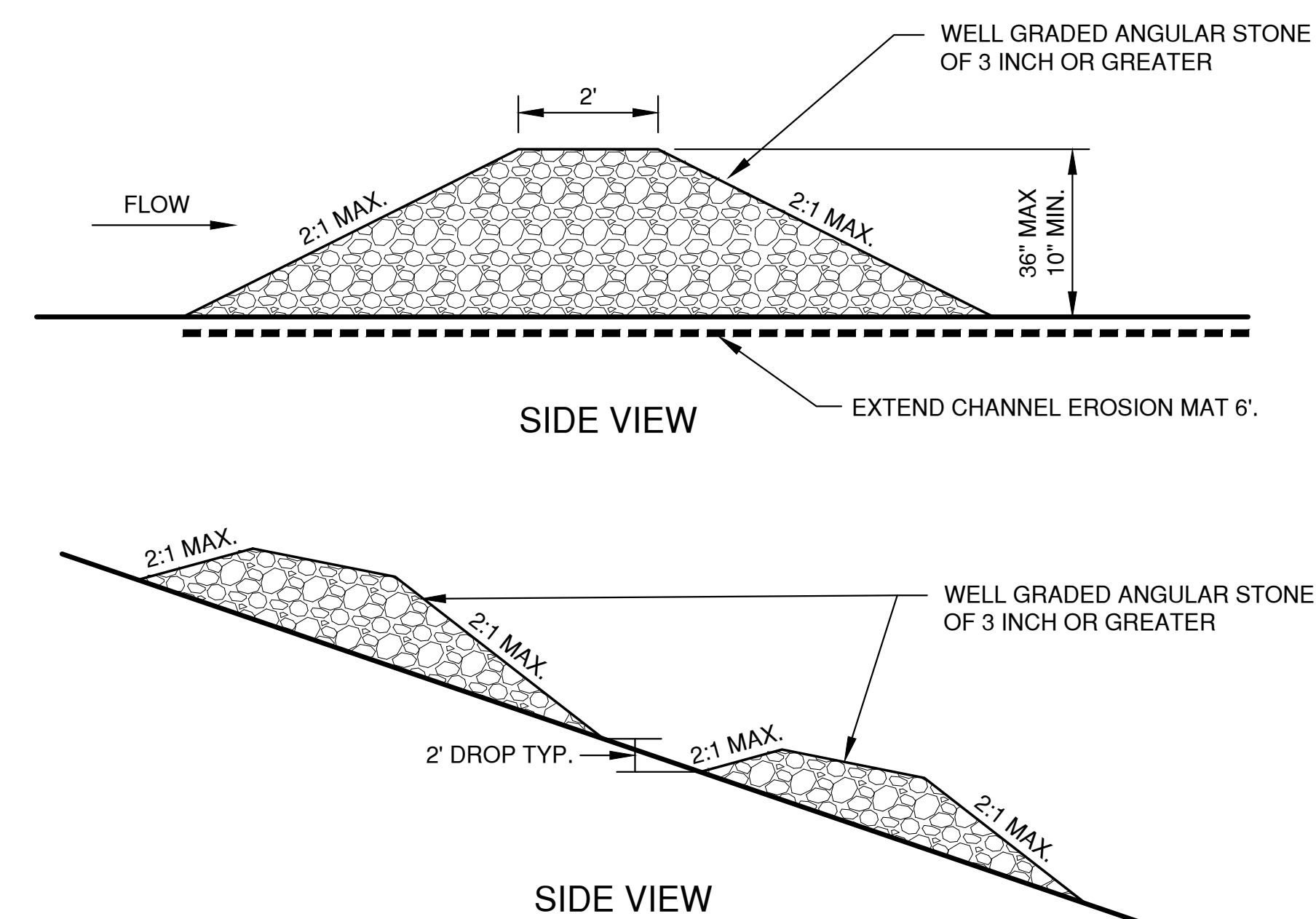


DITCH CHECK DETAIL

ROCK FILLED EROSION CONTROL BAGS TYPE B

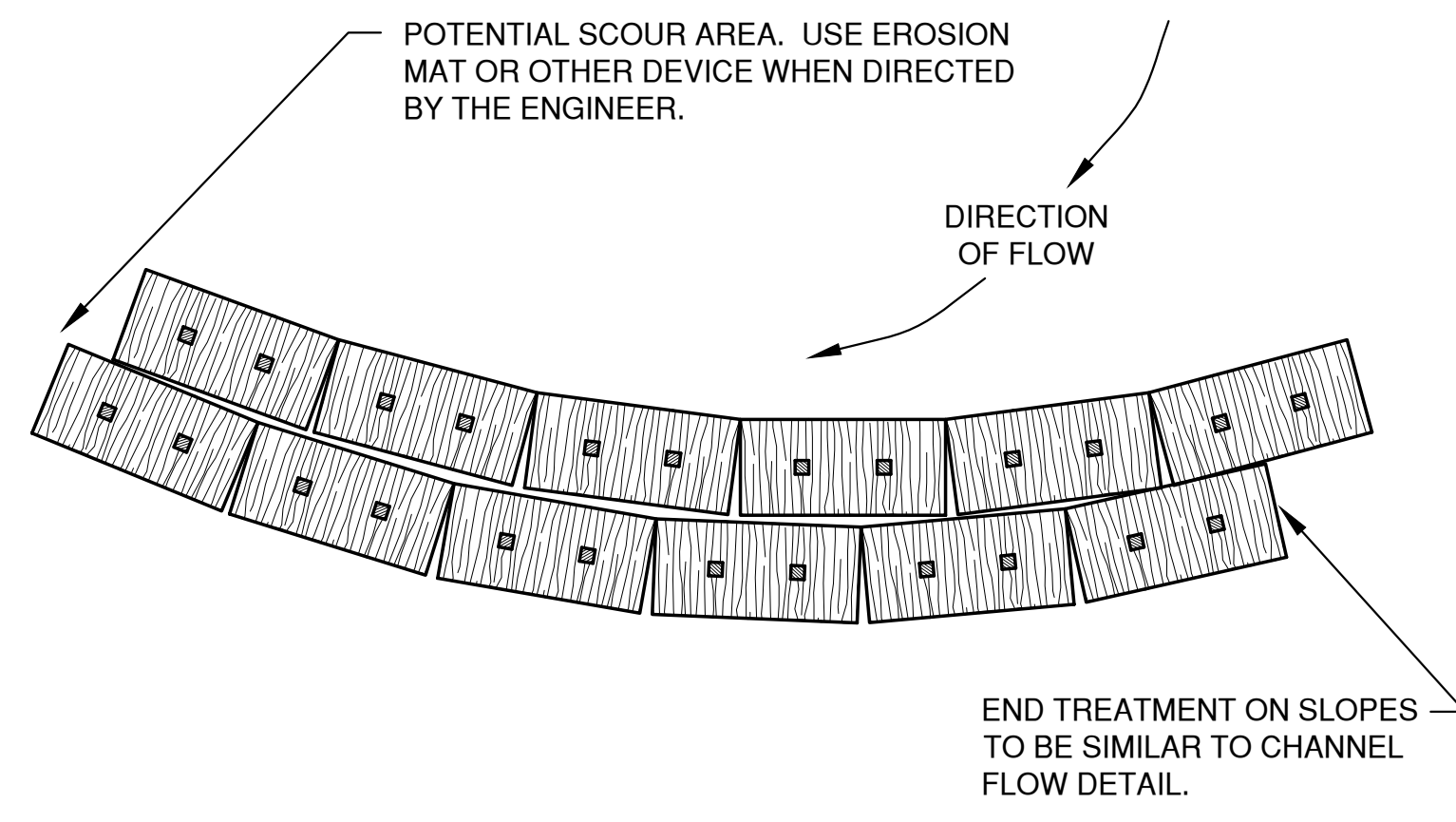
- DITCH CHECK GENERAL NOTES:

1. DITCH CHECKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1062.
2. AT A MINIMUM, INSTALL ONE DITCH CHECK FOR EVERY 2 FEET OF VERTICAL DROP.
3. DITCH CHECKS SHALL BE PLACED SUCH THAT THE RESULTING PONDING WILL NOT CAUSE AN INCONVENIENCE OR DAMAGE TO ADJACENT AREAS.

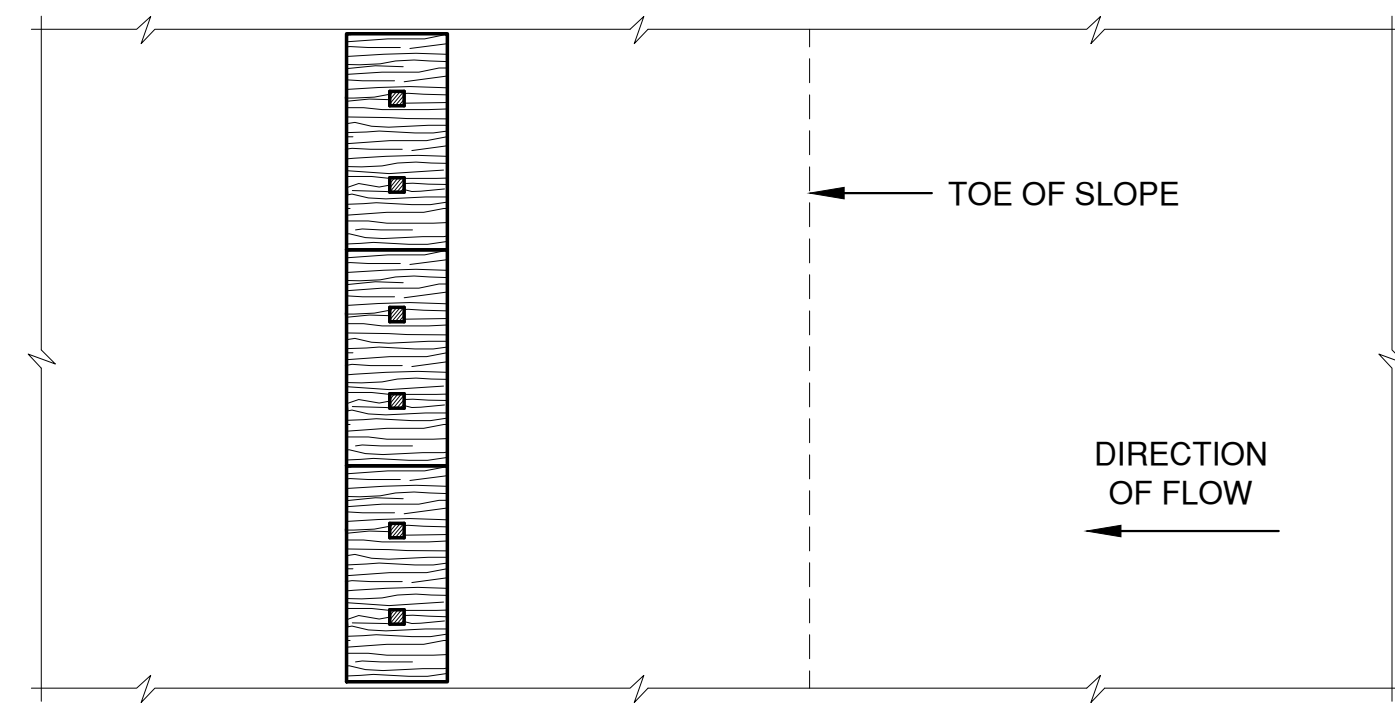


TEMPORARY DITCH CHECK USING STONE
TYPE C

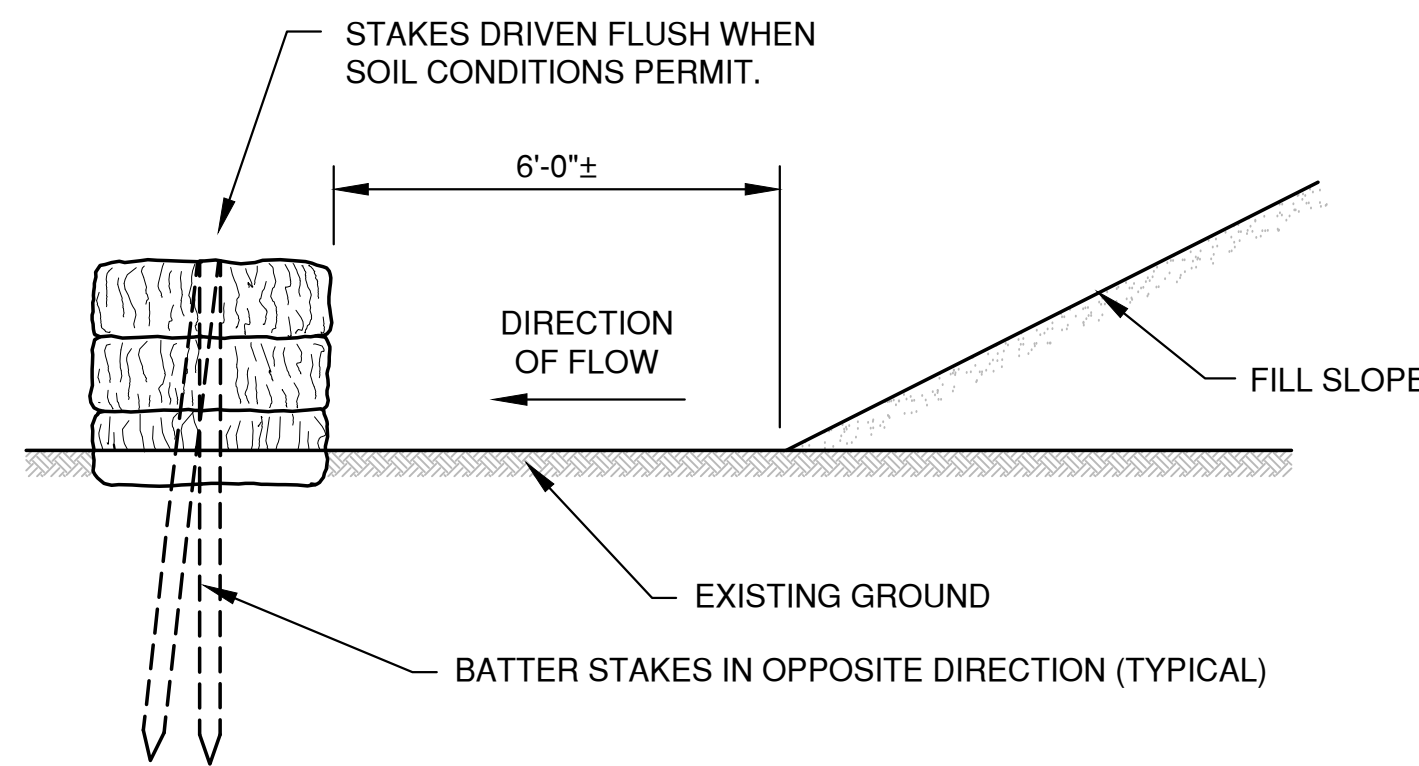
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PLAN VIEW
(WHEN ALTERING THE DIRECTION OF FLOW)

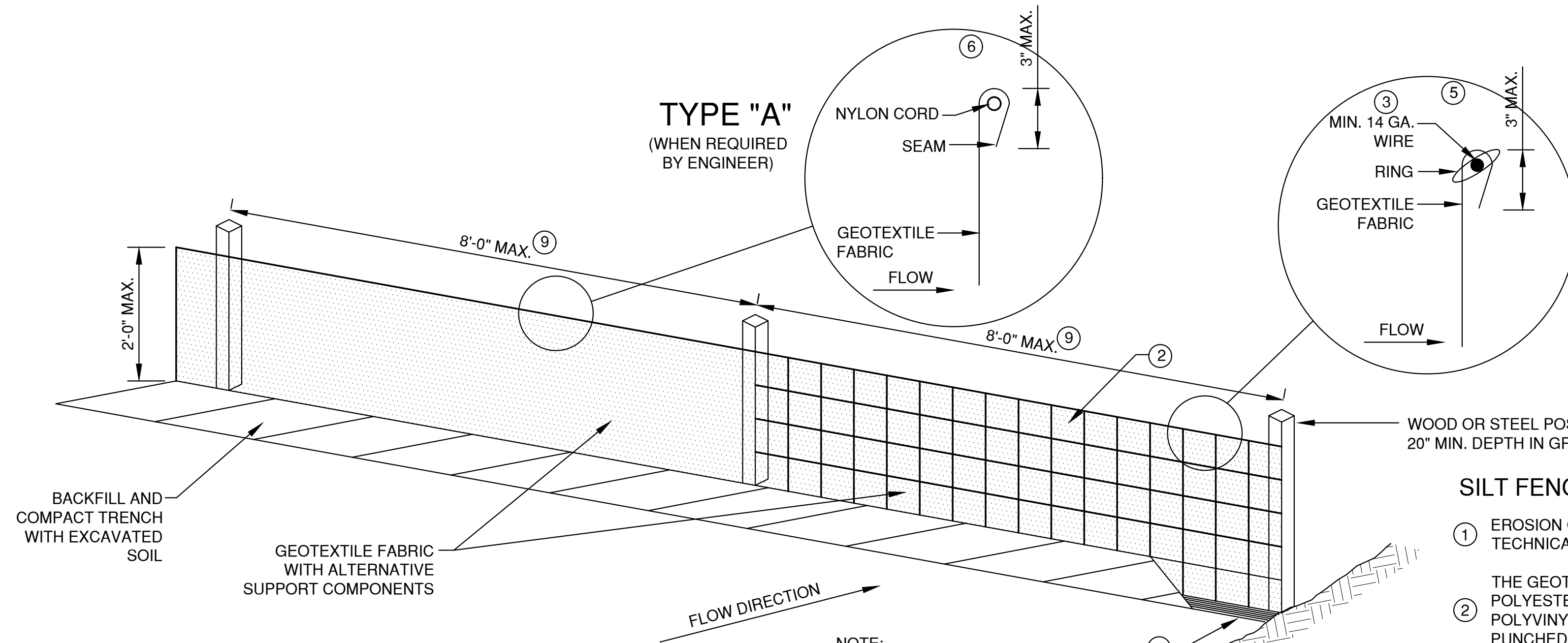


PLAN VIEW



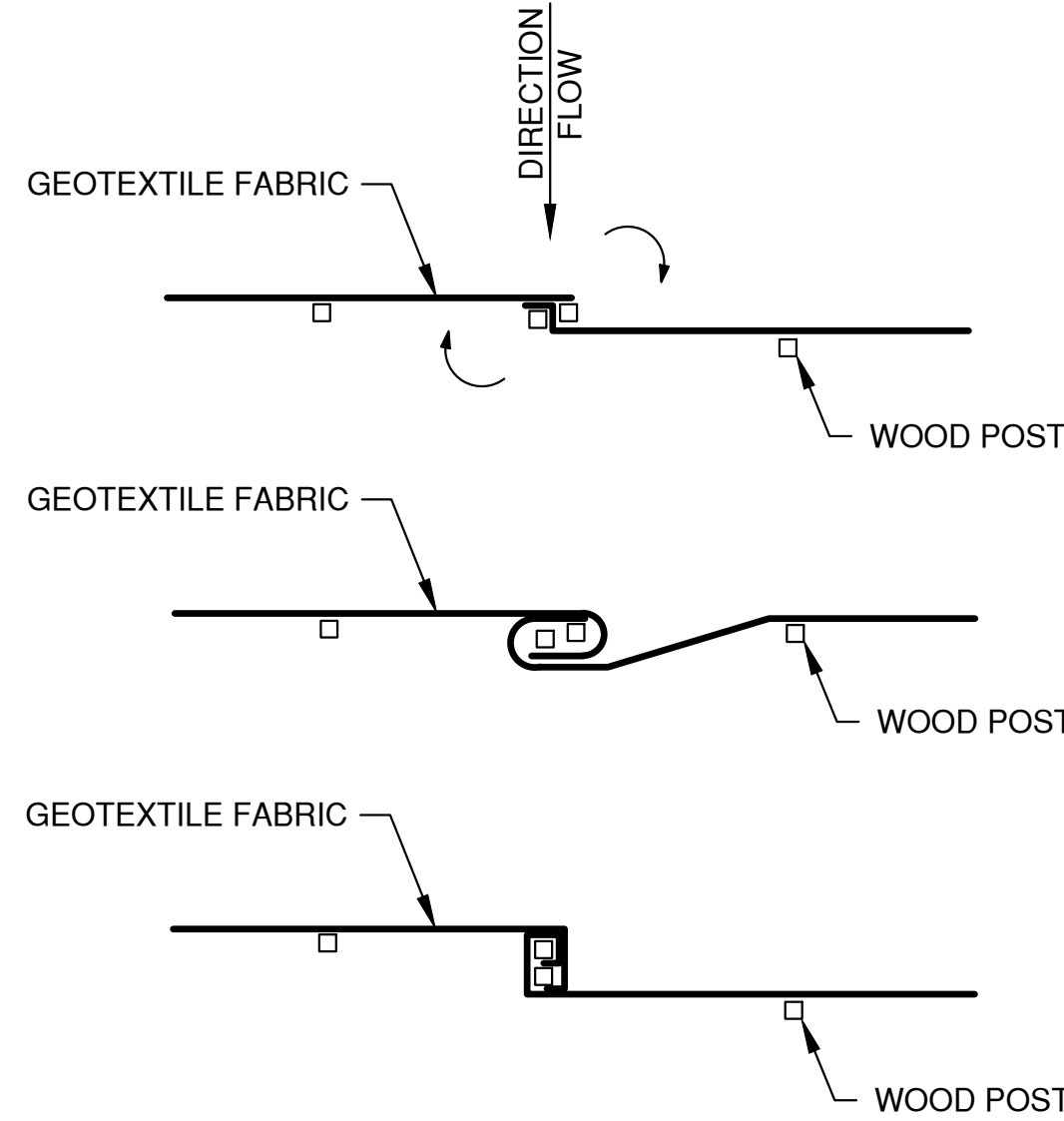
FRONT ELEVATION
WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

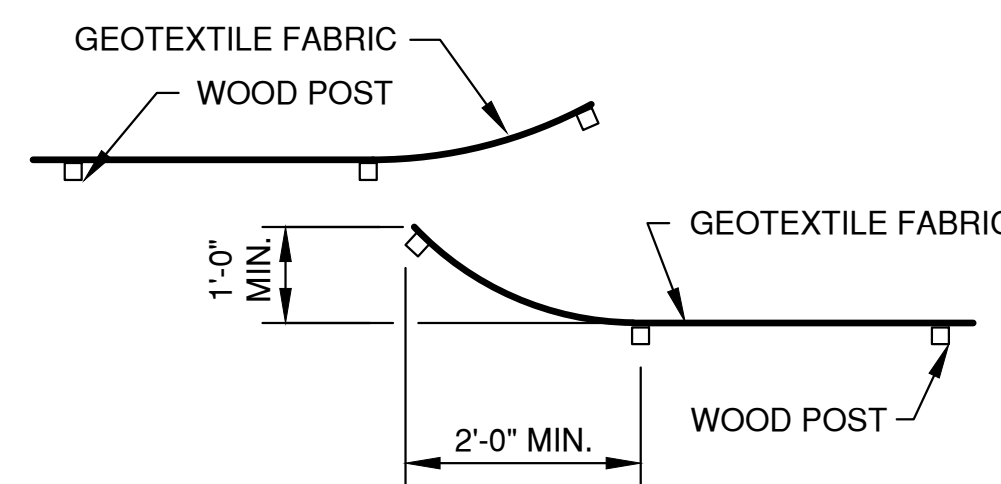


SILT FENCE DETAIL

NOTE:
ADDITIONAL POST DEPTH OR TIE
BACKS MAY BE REQUIRED IN
UNSTABLE SOILS.



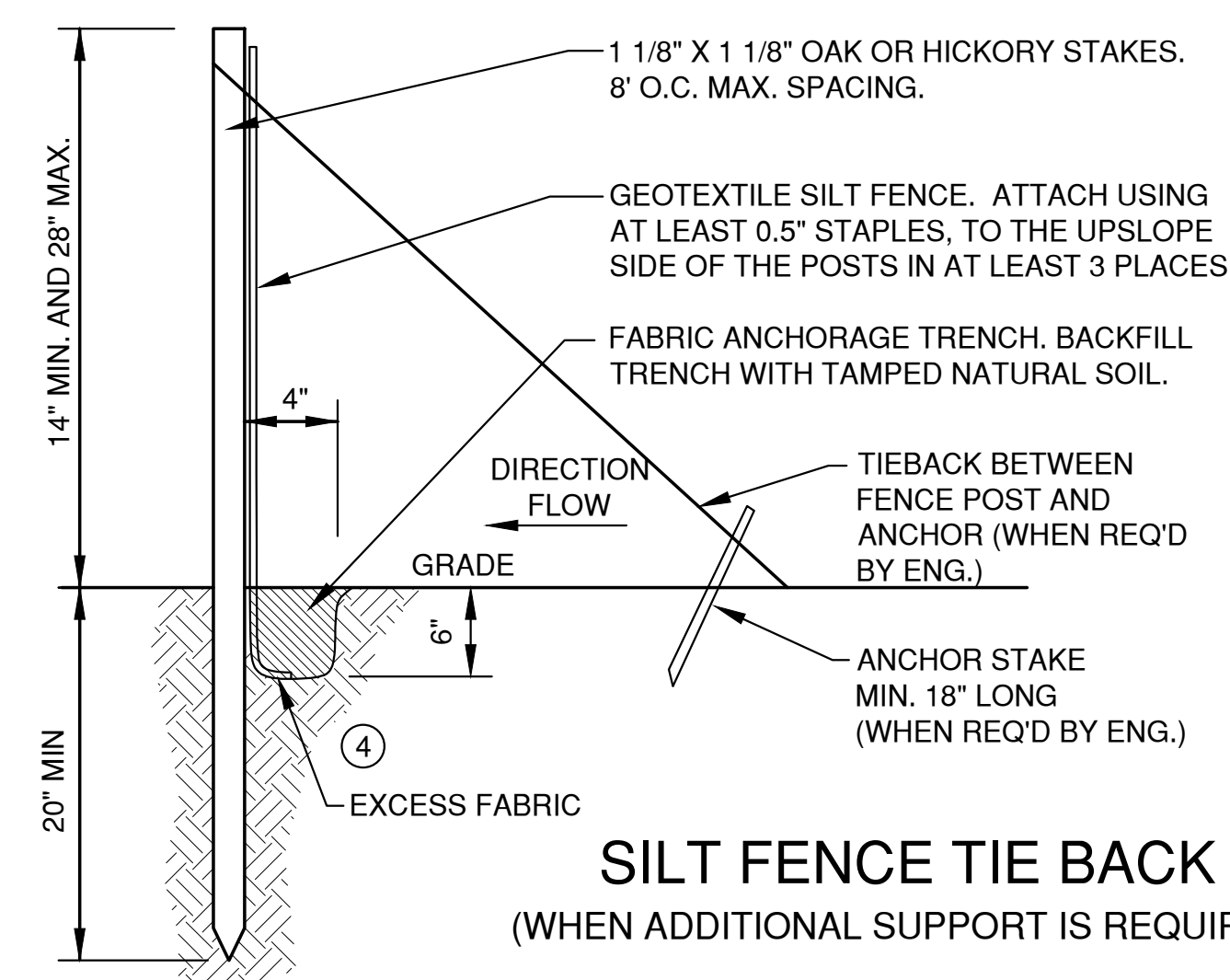
TWIST METHOD ⑧



HOOK METHOD ⑧

JOINING TWO LENGTHS OF SILT FENCE

SILT FENCE TIE BACK
(WHEN ADDITIONAL SUPPORT IS REQUIRED)



SILT FENCE NOTES:

- EROSION CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1056.
- THE GEOTEXTILE FABRIC CONSISTS OF EITHER WOVEN OR NON-WOVEN POLYESTER, POLYPROPYLENE, STABILIZED NYLON, POLYETHYLENE OR POLYVINYLIDENE CHLORIDE. NON-WOVEN FABRIC MAY BE NEEDLE PUNCHED, HEAT BONDED, RESIN BONDED, OR COMBINATIONS THEREOF.
- MINIMUM 14 GAUGE WIRE REQUIRED, FOLD FABRIC 3" OVER THE WIRE AND STAPLE OR PLACE WIRE RINGS ON 12" C.C.
- EXCAVATE A TRENCH A MINIMUM OF 4" WIDE AND 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL AND COMPACT TRENCH WITH EXCAVATED SOIL
- WIRE SUPPORT FENCE SHALL BE 14 GAUGE MINIMUM WOVEN WIRE WITH A MAXIMUM MESH SPACING OF 6". SECURE TOP OF GEOTEXTILE FABRIC TO TOP OF FENCE WITH STAPLES OR WIRE RINGS AT 12" C.C. (TYPE B)
- GEOTEXTILE FABRIC SHALL BE REINFORCED WITH AN INDUSTRIAL POLYPROPYLENE NETTING WITH A MAXIMUM MESH SPACING OF 3/4" OR EQUAL. A HEAVY DUTY NYLON TOP SUPPORT CORD OR EQUIVALENT IS REQUIRED. (TYPE A)
- STEEL POSTS SHALL BE 5' LONG WITH A MINIMUM STRENGTH OF 1.33 LBS PER FOOT. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1 1/8" X 1 1/8" OF OAK OR HICKORY. THE POSTS SHALL BE A MINIMUM OF 3' LONG FOR 24" SILT FENCE AND 4' LONG FOR 36" SILT FENCE.
- 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.) TWIST METHOD -- OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B.) HOOK METHOD -- HOOK THE END OF EACH SILT FENCE LENGTH.
- THE MAXIMUM SPACING OF POSTS FOR WOVEN FABRIC SILT FENCE SHALL BE 8 FEET AND FOR NON-WOVEN FABRIC, 3 FEET.

EROSION CONTROL SHEET FLOW NOTES:

- ANY SOIL STOCKPILED THAT REMAINS FOR MORE THAN 7 DAYS, SHALL BE COVERED OR TREATED WITH STABILIZATION PRACTICES SUCH AS TEMPORARY OR PERMANENT SEEDING AND MULCHING.
- A MINIMUM OF 4" OF TOPSOIL MUST BE APPLIED TO ALL AREAS TO BE SEEDDED OR SODDED.
- ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, WASTEWATER, TOXIC MATERIALS, OR HAZARDOUS MATERIALS) SHALL BE PROPERLY DISPOSED OF AND NOT ALLOWED TO BE CARRIED OFF-SITE BY RUNOFF OR WIND.
- ALL OFF-SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF CONSTRUCTION WORK OR A STORM EVENT SHALL BE CLEANED UP BY THE END OF EACH DAY. **FLUSHING SHALL NOT BE ALLOWED.**
- ANY SOIL EROSION THAT OCCURS AFTER FINAL GRADING AND/OR THE APPLICATION OF STABILIZATION MEASURES MUST BE REPAIRED AND THE STABILIZATION WORK REDONE.
- FOR ANY DISTURBED AREA THAT REMAINS INACTIVE FOR GREATER THAN 7 WORKING DAYS, OR WHERE GRADING WORK EXTENDS BEYOND THE PERMANENT SEEDING DEADLINES, THE SITE MUST BE TREATED WITH TEMPORARY STABILIZATION MEASURES SUCH AS SOIL TREATMENT, TEMPORARY SEEDING AND/OR MULCHING.
- ALL TEMPORARY EROSION CONTROL PRACTICES SHALL BE MAINTAINED UNTIL THE SITE IS STABILIZED WITH 70% VEGETATION AND A NOTICE OF TERMINATION HAS BEEN APPROVED BY THE WDNR.
- WIND EROSION SHALL BE KEPT TO A MINIMUM DURING CONSTRUCTION. WATERING, MULCH OR A TACKING AGENT MAY NEED TO BE UTILIZED TO PROTECT NEARBY RESIDENCES/WATER RESOURCES.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL THE EROSION CONTROL MEASURES IN CONFORMANCE WITH THE WDNR CONSERVATION PRACTICE STANDARDS LATEST EDITION.
- UPON COMPLETION OF STORM INLET CONSTRUCTION, INSTALL STORM DRAIN INLET PROTECTION FOR CONSTRUCTION SITE AS SPECIFIED.
- FINE SEDIMENT ACCUMULATIONS SHALL BE CLEANED FROM STREETS, PRIVATE DRIVES, OR PARKING AREAS BY MANUAL OR MECHANICAL SWEEPING A MINIMUM OF ONCE A WEEK AND BEFORE ALL IMMINENT RAINS
- EROSION AND SEDIMENT CONTROL STRUCTURES SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS OF RAINFALL OF 0.5" OR MORE.

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Diagram illustrating the installation of a trackout control device. The device is a rectangular unit installed on a 12" MIN. DEPTH ROCK PAD OR STABILIZED SURFACE. The device is surrounded by a 50' MIN. wide area, with a 32' MIN. distance from the device to the edge of the stabilized surface. The device is labeled "MANUFACTURED TRACKOUT CONTROL DEVICE INSTALLED PER MANUFACTURER". The surrounding area is labeled "STABILIZED SURFACE TO EXIT". A note indicates "CULVERT AS NEEDED" for the area below the device.

Diagram illustrating the cross-section of a trackout control device installation. The device is a horizontal layer embedded within a rock pad. The rock pad is composed of a 12" MIN. DEPTH ROCK PAD OR STABILIZED SURFACE. The device is anchored into the rock pad by ANCHOR AS REQUIRED BY MANUFACTURER. The device is a MANUFACTURED TRACKOUT CONTROL DEVICE INSTALLED PER MANUFACTURER. The device is installed on a STABILIZED SURFACE TO EXIT. The device is installed on a CULVERT AS NEEDED. The device is installed on a GEOTEXTILE FABRIC LINER AS NEEDED.

1. THIS DETAIL IS PROVIDED AS AN EXAMPLE. COMPLY WITH MANUFACTURER'S SPECIFICATIONS WHILE ALSO MEETING THE MINIMUM MANUFACTURED TRACKING PAD LENGTH AND WIDTH DESCRIBED IN THIS TECHNICAL STANDARD.
2. INSTALL SUCH THAT RUNOFF FLOWS TO AN APPROVED TREATMENT PRACTICE.
3. A THINNER STONE LAYER OR OTHER STABLE SURFACE MAY BE ACCEPTABLE SUCH THAT RUTTING IS MINIMIZED AS VEHICLES MOUNT OR DISMOUNT FROM THE MANUFACTURERS TRACKOUT CONTROL DEVICE.
4. SELECT FABRIC TYPE BASED ON SOIL CONDITIONS AND VEHICLES LOADING.
5. DIRECT ALL EXISTING VEHICLES OVER MANUFACTURED TRACKOUT CONTROL DEVICE. STONE TRACKING PAD INSTALLATION ACROSS REMAINING ACCESS WIDTH IS RECOMMENDED. A 12" MINIMUM CAN BE USED WHEN EXITING TRAFFIC IS RESTRICTED TO A DEDICATED EGRESS LANE.
6. IF MINIMUM INSTALLATION LENGTH IS NOT POSSIBLE DUE TO SITE GEOMETRY, INSTALL THE MAXIMUM LENGTH PRACTICABLE AND SUPPLEMENT WITH ADDITIONAL PRACTICES AS NEEDED.
7. ACCOMMODATE EXITING VEHICLES IN EXCESS OF MANUFACTURED TRACKOUT CONTROL DEVICE WEIGHT CAPACITY WITH OTHER TREATMENT PRACTICES.

Diagram illustrating a stabilized surface (EXISTING STABILIZED SURFACE) with a minimum length of 50' MIN. (SEE NOTE 5). The surface is composed of AGGREGATE and includes a SITE EGRESS area. A CULVERT AS NEEDED is indicated for the area below the aggregate layer. The minimum height of the aggregate layer is 12' MIN. (SEE NOTE 4).

EXISTING STABILIZED SURFACE

CULVERT AS NEEDED

GEOTEXTILE FABRIC LINER AS NEEDED (SEE NOTE 3)

12" MIN. (SEE NOTE 2)

This diagram shows a cross-section of a stabilized surface. The top layer is labeled 'EXISTING STABILIZED SURFACE'. Below this, a dashed line indicates the 'GEOTEXTILE FABRIC LINER AS NEEDED (SEE NOTE 3)'. A solid line below the dashed line indicates the 'CULVERT AS NEEDED'. A vertical dimension line on the right indicates a minimum depth of '12" MIN. (SEE NOTE 2)' from the top surface to the bottom of the culvert.

1. USE HARD, DURABLE, ANGULAR STONE OR RECYCLED CONCRETE, MEETING THE FOLLOWING GRADATION:

SIEVE SIZE:	PERCENT BY WEIGHT PASSING:
3"	100
2 1/2"	90-100
1 1/2"	25-60
3/4"	0-20
3/8"	0-5
2. SLOPE THE STONE TRACKING PAD IN A MANNER TO DIRECT RUNOFF TO AN APPROVED TREATMENT PRACTICE.
3. SELECT FABRIC TYPE BASED ON SOIL CONDITIONS AND VEHICLES LOADING.
4. INSTALL TRACKING PAD ACROSS FULL WIDTH OF THE ACCESS POINT, OR RESTRICT EXISTING TRAFFIC TO A DEDICATED EGRESS LANE AT LEAST 12 FEET WIDE ACROSS THE TOP OF THE PAD.
5. IF A 50' PAD LENGTH IS NOT POSSIBLE DUE TO SITE GEOMETRY, INSTALL THE MAXIMUM LENGTH PRACTICABLE AND SUPPLEMENT WITH ADDITIONAL PRACTICES AS NEEDED.

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION
											DRAWN LLP
											CHECKED BBB
											DESIGNED AJB

SITE DEVELOPMENT FOR
BAYSIDE MACHINE CORPORATION
CITY OF DE PERE
BROWN COUNTY, WISCONSIN

EROSION CONTROL
TRACKOUT CONTROL PRACTICES

DATE
09/26/20

FILE
EROSION CONTROL

JOB NO.
5986701

Robert E. Lee & Associates, Inc.
ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES
1250 CENTENNIAL CENTRE BOULEVARD HOBART, WI 54155
920-662-9641 www.releinc.com

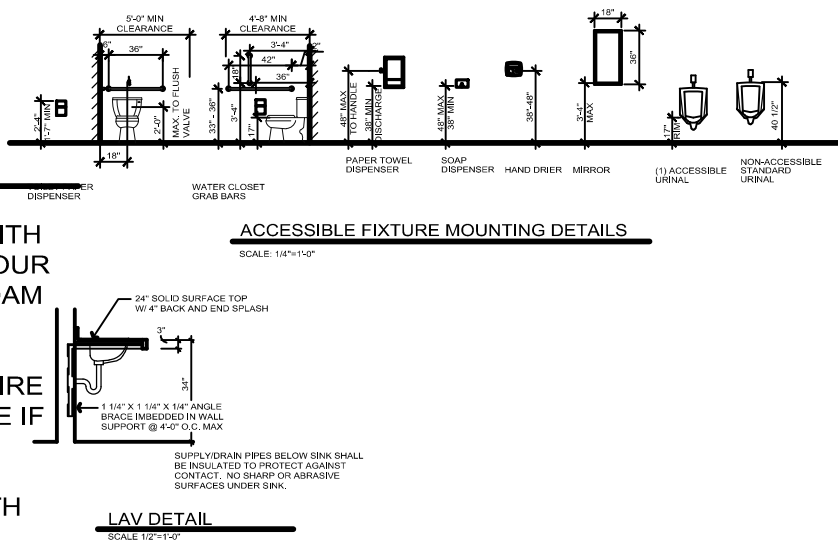
SHEET NO.
C-10

FLOOR PLAN
GENERAL NOTES:

- ALL DIMENSIONS ARE TO FINISH SURFACES
- INTERIOR PARTITIONS TO BE 3/2S125-30 METAL STUDS @ 16" O.C. W/ 1/2" GYPSUM BOARD BOTH SIDES W/ F.G. SOUND BATT UNLESS NOTED OTHERWISE. NOMINAL DIMENSIONED WIDTH 5"
- BOX IN ALL PEMB COLUMNS WITH BYPSUM BOARD IN OFFICE AREA.
- PROVIDE FIRE ALARM SYSTEM WITH SMOKE DETECTION IN EXISTING AND NEW MANUFACTURING / WAREHOUSE AREA (ALL BUILDING AREAS SOUTH OF FIREWALL). SEE APPROVED PETITION FOR VARIANCE - TRANSACTION ID #2322134.

FLOOR PLAN
WORK NOTES:

- VERIFY EXISTING 8" CMU WALL IS FILLED WITH CORE FILL FOAM INSULATION TO MEET 2 HOUR FIRE RATING REQUIREMENTS. PROVIDE FOAM CORE FILL IF NECESSARY.
- VERIFY EXISTING DOORS ARE 1 1/2 HOUR FIRE RATED WITH LATCH AND CLOSER. REPLACE IF NECESSARY.
- REMOVE WINDOW AND INFILL OPENING WITH METAL STUDS AND GYPSUM BOARD.
- PROVIDE FURRING AND GYPSUM BOARD OVER EXISTING CMU WALL.
- 1 HOUR STUD WALL - SEE DETAIL 1/A1.2
- PASS THRU WINDOW - MAXIMUM SILL HEIGHT 34" AFF
- FUTURE ELEVATOR FOR FUTURE SECOND FLOOR OFFICE BUILD-OUT. VERIFY SHAFT DIMENSIONS WITH ACTUAL ELEVATOR TO BE USED.
- REMOVE SECTION OF WALL FOR NEW HALLWAY CONTINUATION.



GENERAL SPECIFICATION

These plans and specifications have been prepared for Fox Cities Builders, Seymour, Wisconsin (hereafter referred to as the contractor). The Architect will be responsible only to the contractor for work incorporated into the drawings and specifications. Civil, Plumbing, Heating-Ventilating and Electrical plans and specifications will be furnished by others. All contractors shall be responsible for complying to provisions of the Federal Occupational Safety & Health Act.

GENERAL CONDITIONS: All contractual agreements and responsibilities, including all insurance requirements and State of Wisconsin Regulations, are to be negotiated between Owner and the Contractors, both of whom will be responsible for furnishing all required insurances, including Unemployment & Workmen's Compensation requirements. Contractors shall be responsible for safety and accident prevention. There shall be no deviation from these plans and specifications without the written consent of the Architect. The Architect is not a party to any negotiations between Owner and his Contractors.

MECHANICAL TRADES: Plumbing, Heating-Ventilating and Electrical Work contracts are not a part of these plans. All work of these trades shall be done in strict accordance to all Local and State of Wisconsin Codes and Ordinances. Plumbing and Heating-Ventilating plans shall be submitted to the State of Wisconsin for approval. Electrical Contractor shall provide all required "EXIT" lights.

SITE WORK: Strip existing topsoil and store on the site as directed by the Owner. The site shall be graded to provide drainage away from the building.

EXCAVATION AND BACKFILLING: Excavate to required depths to receive footings as indicated on the drawings. Excavations shall be cut cleanly. Backfill around exterior of building with earth free from waste and debris. All backfill below slabs on grade to be granular material and compacted to 95% modified proctor. Maximum lift is 8 inches. Foundations are designed for 2000 PSF soil bearing capacity. The Contractor shall verify the adequacy of bearing soils and employ the services of a soils engineer if necessary. Architect shall be notified of presence of any questionable soils.

CONCRETE WORK: Concrete footings and slab shall be constructed to meet all requirements of the "Guide Specifications for Ready Mix Concrete". Strength to be minimum 3,000 PSI for walls and footings, and 4,000 PSI for floor slabs. Exterior flatwork shall be air entrained. Slump shall not exceed 4". Provide all required form work, as indicated on plans, and remove all forms after concrete has properly set. This contractor shall set all anchor bolts, as shown or required of proper size and length. Set by template. Furnish and place all reinforcing steel and welded wire mesh as called for. Reinforcing steel shall be intermediate grade, deformed, new billet steel meeting ASTM A-15. Bend bars a minimum 24" around corners and lap splices at least 20 bar diameters. Where not otherwise shown, the thickness of concrete over the reinforcement shall be:
1. Where concrete is deposited against the ground without the use of forms, not less than 3 inches.
2. Where concrete is deposited against forms and exposed to weather or soil, not less than 1-1/2 inches.

MASONRY: A. All masonry work shall be performed by skilled workmen in a competent manner. Joints shall be clean, straight, plumb, level and uniform. Chipped, cracked and broken units shall not be used. All masonry shall be laid in running bond.
B. Reinforcing shall be used every second course of all masonry block walls. Provide three courses of brick for bearing. Dur-O-Wall shall be standard weight as required by the State of Wisconsin Dept. of COMM. Lap all reinforcements 6 inches.
C. 4" masonry shall be tied to backup material with 22 U.S. gage stainless steel anchors, 7/8" wide spaced 16" O.C. vertically and 32" O.C. horizontally.
D. Control joints shall be provided and spaced as follows unless specified otherwise on the plans:
Load-bearing walls: joint to corner - 30'; joint to joint - 60' (0 to 20% wall openings)
Non-bearing walls: joint to corner - 25'; joint to joint - 50' (0 to 20% wall openings)
Joint to corner - 20'; joint to joint - 30' (more than 20% wall openings)
Joints in fire rated walls shall be filled with materials with same fire rating.
E. All concrete masonry units shall conform to ASTM C-90-70. Units shall be from a source approved by the State of Wisconsin and shall bear the mark of the manufacturer.

PRECAST CONCRETE: Precast concrete floor planks shall be 8". A 3" concrete topping will be installed. Plank must be designed for 85 PSF live load.

PRE-ENGINEERED METAL BUILDING: The building shall be supplied by a supplier yet to be determined (hereafter referred to as the manufacturer). The metal building, as shown, shall be manufactured by the manufacturer, and shall meet all of the loading requirements as outlined by the State of Wisconsin, Department of Safety & Professional Development, Safety & Buildings Division, for buildings of this type. The metal building and all applicable accessories shall be completely furnished and installed to manufacturers specifications, and as outlined in the Agreement between the Owner and Contractor. The building shall be of bay sizes shown on the plans.

LUMBER: Lumber for framing shall be #2 SPF or better unless otherwise noted. All wood in contact with concrete shall be pressure treated. Fire treated wood shall be used where noted.

COLD FORMED METAL FRAMING: Provide metal framing, which includes channel shaped steel studs and accessories. Steel studs shall be of size and gauge shown on the plans.

STRUCTURAL STEEL: All structural steel required, in addition to that furnished with the metal building, shall be A-36. Design shall conform to the latest AISC specification.

INSULATION: PEMB roof shall be fiberglass liner system as indicated on the drawings. Wall and entryway roof insulation shall be polyisocyanurate foam insulation in thickness indicated on the plan. All foam insulation shall be separated from the habitable space by a minimum 30 minute thermal barrier (1/2" gypsum board). Foundation perimeter insulation shall be extruded polystyrene foam in the thickness shown on the plans. All exposed insulation shall have a flame spread rating of 25 or less.

DOORS: All exit doors shall be hollow metal or wood with hollow metal frames; size and swing as shown on plan. Exterior doors shall be insulated. All exit doors shall have hardware that can be opened from the inside by pushing against a single bar or by turning a single lever.

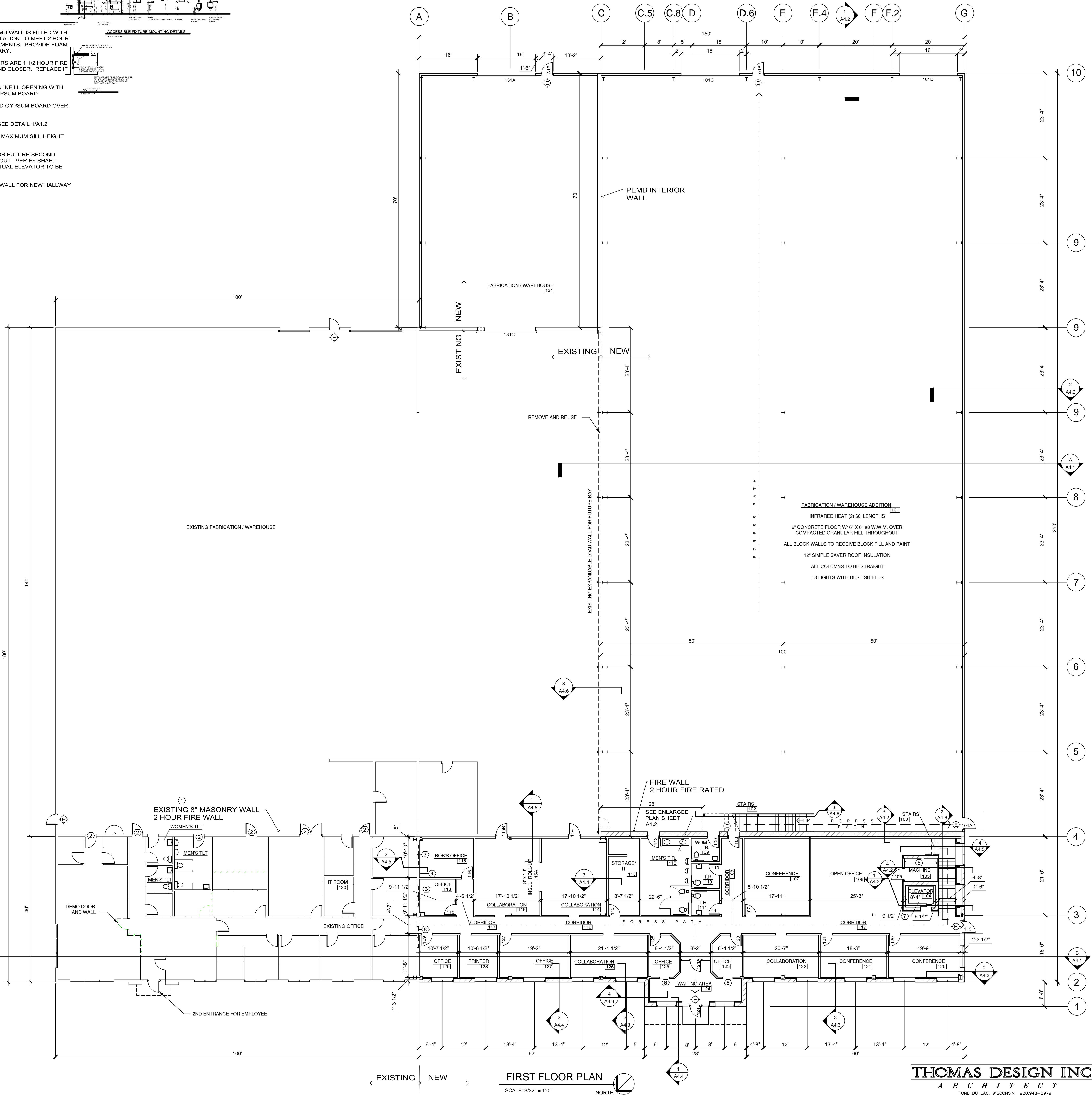
ALUMINUM DOORS & WINDOWS: Exterior units shall be 1", low-e, medium solar tint, double glaze, in thermally broken anodized aluminum frame - Kiewit 451T or equal. Glazing in door / sidelight assemblies shall be tempered. Interior units shall have 1/4" tempered glass.

OVERHEAD DOORS: Overhead doors shall be nominal 1 1/2" thick with polyurethane foam core.

BARRIER-FREE GENERAL REQUIREMENTS: Handicap accessible toilet rooms are shall conform to the following:
1. Floors shall be sealed concrete or ceramic tile. Provide a 6" ceramic tile base around the toilet rooms. The walls and ceilings shall be painted with light colored enamel. The doors shall be equipped with a closer.
2. Grab bars shall support 250 pounds minimum, shall have a smooth finish and an outside diameter of between 1" and 1-1/2", with 1-1/2" clearance between the bar and wall. Mount 36" above finish floor as shown on the floor plan.
3. Lavatory shall be mounted to allow 29" clear space below with a maximum rim height of 34".
4. Mirrors and towel dispensers shall be mounted not more than 40" above finish floor.
5. Sex Designation - letters not less than 1" high or symbols shall be used to designate men and women.
6. Water closets shall have a seat height of 17 to 19 inches.
7. Each toilet room shall be provided with mechanical exhaust ventilation of at least 3 cfm per square foot of floor area or 75 cfm per fixture (water closets and urinals).

FIRE EXTINGUISHERS: Furnish and install fire extinguishers per IFC 906 and NFPA 10.

EXIT LIGHTS: Provide an approved type illuminated sign bearing the word "EXIT" in 5" high letters above all doors shown thus (E). Light shall have emergency battery backup capable of 90 minutes of continued illumination.



FIRST FLOOR PLAN

SCALE: 3/32" = 1'-0"

THOMAS DESIGN INC

ARCHITECT

FOND DU LAC, WISCONSIN 920-948-8979
TDI JOB #2230



FOX CITIES BUILDERS, LLC.
N7315 CITY RD. Y - SUITE B
SEYMOUR, WISCONSIN 54165
PHONE (920) 833-9545
FAX (920) 833-9546

PLAN SET STAGE:
☐ PRELIMINARY PLAN SET
☐ NOT FOR CONSTRUCTION
☐ PLAN BID COPY
☒ FINAL PLAN SET
☒ APPROVED FOR CONSTRUCTION

REVISIONS:
NOV 5, 2022
APRIL 7, 2023

PROPOSED BUILDING ADDITION FOR:
19-1012 BAYSIDE MACHINE CORP.
2257 AMERICAN BOULEVARD, DE PERE, WI
SALES REP: JEREMY NOLL (920) 595-0345
DATE: DECEMBER 12, 2022

A1.1

DOOR & FRAME SCHEDULE							
MARK	DOOR SIZE W. x H. x THK.	DOORS		FRAMES		REMARKS	
		TYPE	FINISH	TYPE	FINISH		
101A	3'-0"x7'-0"x1/4"	HM-2	-	HM-2	-	2,3	
101B	3'-0"x7'-0"x1/4"	HM-1	G-1	HM-1	-	2,3	
101C	16'-0" X 10'-0"	ST-1	G-4	0	-	1,2	
101D	16'-0" X 10'-0"	ST-1	G-4	0	-	1,2	
105	3'-0"x7'-0"x1/4"	HM-2	-	HM-1	-	3	
107	3'-0"x7'-0"x1/4"	WD-1	G-1	0	HM-1	-	
108	3'-0"x7'-0"x1/4"	HM-1	G-3	1,5	HM-2	-	3
109	3'-0"x7'-0"x1/4"	HM-2	-	1,5	HM-2	-	4
110	3'-0"x7'-0"x1/4"	WD-2	-	0	HM-1	-	4
111	3'-0"x7'-0"x1/4"	WD-2	-	0	HM-2	-	4
112	3'-0"x7'-0"x1/4"	HM-2	-	1,5	HM-1	-	3
113	3'-0"x7'-0"x1/4"	WD-1	G-1	0	HM-1	-	-
114	3'-0"x7'-0"x1/4"	HM-1	G-3	1,5	HM-2	-	3
115A	6'-0" X 10'-0" ROLL UP	RU-1	-	0	-	2	
115B	3'-0"x7'-0"x1/4"	HM-1	G-3	1,5	HM-2	-	3
116	3'-0"x7'-0"x1/4"	WD-1	G-1	0	HM-1	-	-
118	3'-0"x7'-0"x1/4"	WD-1	G-1	0	HM-1	-	-
119	3'-0"x7'-0"x1/4"	HM-2	-	0	HM-2	-	2,3
120	3'-0"x7'-0"x1/4"	WD-1	G-1	0	HM-1	-	-
121	3'-0"x7'-0"x1/4"	WD-1	G-1	0	HM-1	-	-
123	3'-0"x7'-0"x1/4"	WD-1	G-1	0	HM-1	-	-
124A	3'-0"x7'-0"x1/4"	AL-1	G-1	0	AL-1 G-1	-	-
124B	3'-0"x7'-0"x1/4"	AL-2	G-2	0	AL-1 G-2	-	-
125	3'-0"x7'-0"x1/4"	WD-1	G-1	0	HM-1	-	-
127	3'-0"x7'-0"x1/4"	WD-1	G-1	0	HM-1	-	-
129	3'-0"x7'-0"x1/4"	WD-1	G-1	0	HM-1	-	-
131A	16'-0" X 10'-0"	ST-1	G-4	0	-	1,2	
131B	3'-0"x7'-0"x1/4"	HM-1	G-1	0	HM-1	-	2,3
131C	16'-0" X 10'-0"	ST-1	G-4	0	-	1,2	
201	3'-0"x7'-0"x1/4"	WD-1	G-1	0	HM-1	-	-
202	3'-0"x7'-0"x1/4"	HM-1	G-3	1,5	HM-2	-	3

KEY TO DOOR SCHEDULE

MATERIAL

WD WOOD
AL ALUMINUM - DARK BRONZ ANODIZED
HM HOLLOW METAL

GLASS

G-1 1/4" CLEAR TEMPERED GLASS
G-2 1" CLEAR, INSULATED, LOW E, TEMPERED GLASS
G-3 2 HOUR FIRE RATED GLAZING
G-4 ACRYLIC

REMARKS

1. W/ OPERATOR
2. INSULATED
3. CLOSER & LATCH
4. CLOSER & PRIVACY LOCK

ROOM FINISH SCHEDULE										
MK.	ROOM USE	FLR.	BASE	WALLS				CEILING		REMARKS
				NORTH	EAST	SOUTH	WEST	MAT.	HGT.	
FIRST FLOOR										
101	FABRICATION / WAREHOUSE	SC	N/A	CB	-	LP	LP	EX	-	
102	STAIR	-	-	-	-	-	-	-	-	
103	STAIR	SC	N/A	PGB	PGB	PGB	PGB	C 1	22'-11"	
104	ELEVATOR	SC	N/A	CB	CB	CB	CB	EX	-	
105	MACHINE ROOM	SC	N/A	CB	PGB	CB	PGB	PC	12'-0"	
106	OPEN OFFICE	LVT	V	-	PGB	PGB	PGB	C 1	10'-0"	
107	CONFERENCE	LVT	V	PGB	PGB	PGB	PGB	C 1	10'-0"	
108	CORRIDOR	LVT	V	-	PGB	PGB	PGB	C 1	10'-0"	
109	WOMEN'S TOILET ROOM	CT	CT	EP	EP	EP	EP	C 2	9'-0"	
110	UNISEX TOILET ROOM	CT	CT	EP	EP	EP	EP	C 2	9'-0"	
111	UNISEX TOILET ROOM	CT	CT	EP	EP	EP	EP	C 2	9'-0"	
112	MEN'S TOILET ROOM	CT	CT	EP	EP	EP	EP	C 2	9'-0"	
113	STORAGE / IT	LVT	V	PGB	PGB	PGB	PGB	C 1	10'-0"	
114	COLLABORATION	LVT	V	PGB	PGB	PGB	PGB	C 1	10'-0"	
115	COLLABORATION	LVT	V	PGB	PGB	PGB	PGB	C 1	10'-0"	
116	ROB'S OFFICE	LVT	V	PGB	PGB	PGB	PGB	C 1	10'-0"	
117	CORRIDOR	LVT	V	PGB	PGB	PGB	PGB	C 1	10'-0"	
118	OFFICE	LVT	V	PGB	PGB	PGB	PGB	C 1	10'-0"	
119	CORRIDOR	LVT	V	PGB	PGB	PGB	PGB	C 1	10'-0"	
120	CONFERENCE	C	V	PGB	PGB	PGB	PGB	C 1	10'-0"	
121	CONFERENCE	C	V	PGB	PGB	PGB	PGB	C 1	10'-0"	
122	COLLABORATION	C	V	PGB	PGB	PGB	PGB	C 1	10'-0"	
123	OFFICE	C	V	PGB	PGB	PGB	PGB	C 1	10'-0"	
124	WAITING AREA	CT	CT	PGB	PGB	PGB	PGB	C 1	10'-0"	
125	OFFICE	C	V	PGB	PGB	PGB	PGB	C 1	10'-0"	
126	COLLABORATION	C	V	PGB	PGB	PGB	PGB	C 1	10'-0"	
127	OFFICE	C	V	PGB	PGB	PGB	PGB	C 1	10'-0"	
128	PRINTER	LVT	V	PGB	PGB	PGB	PGB	C 1	10'-0"	
129	OFFICE	C	V	PGB	PGB	PGB	PGB	C 1	10'-0"	
130	IT ROOM	C	V	PGB	PGB	PGB	PGB	C 1	10'-0"	
131	FABRICATING / WAREHOUSE	SC	N/A	EX	LP	LP	LP	EX	-	

SEE FLOOR PLAN FOR ADDITIONAL FINISH INFORMATION
"ETR" INDICATES EXISTING TO REMAIN

KEY TO ROOM FINISH SCHEDULE

FLOOR		WALL		BASE	
LVT	LUXURY VINYL TILE	PGB	PAINTED GYPSUM BOARD	V	VINYL 4"
SC	SEALED CONCRETE	EP	EPOXY PAINT ON GYPSUM BOARD	CT	CERAMIC TILE 6"
CT	CERAMIC TILE	LP	METAL LINER PANEL 8' HIGH		
C	CARPET	CB	CONCRETE BLOCK		

CEILING

C 1 2 X 2 SUSPENDED ACOUSTIC TILE TYPE 1
C 2 2 X 2 SUSPENDED VINYL COATED GYP. BD. TILE
PC PRECAST CONCRETE
EX EXPOSED STRUCTURE

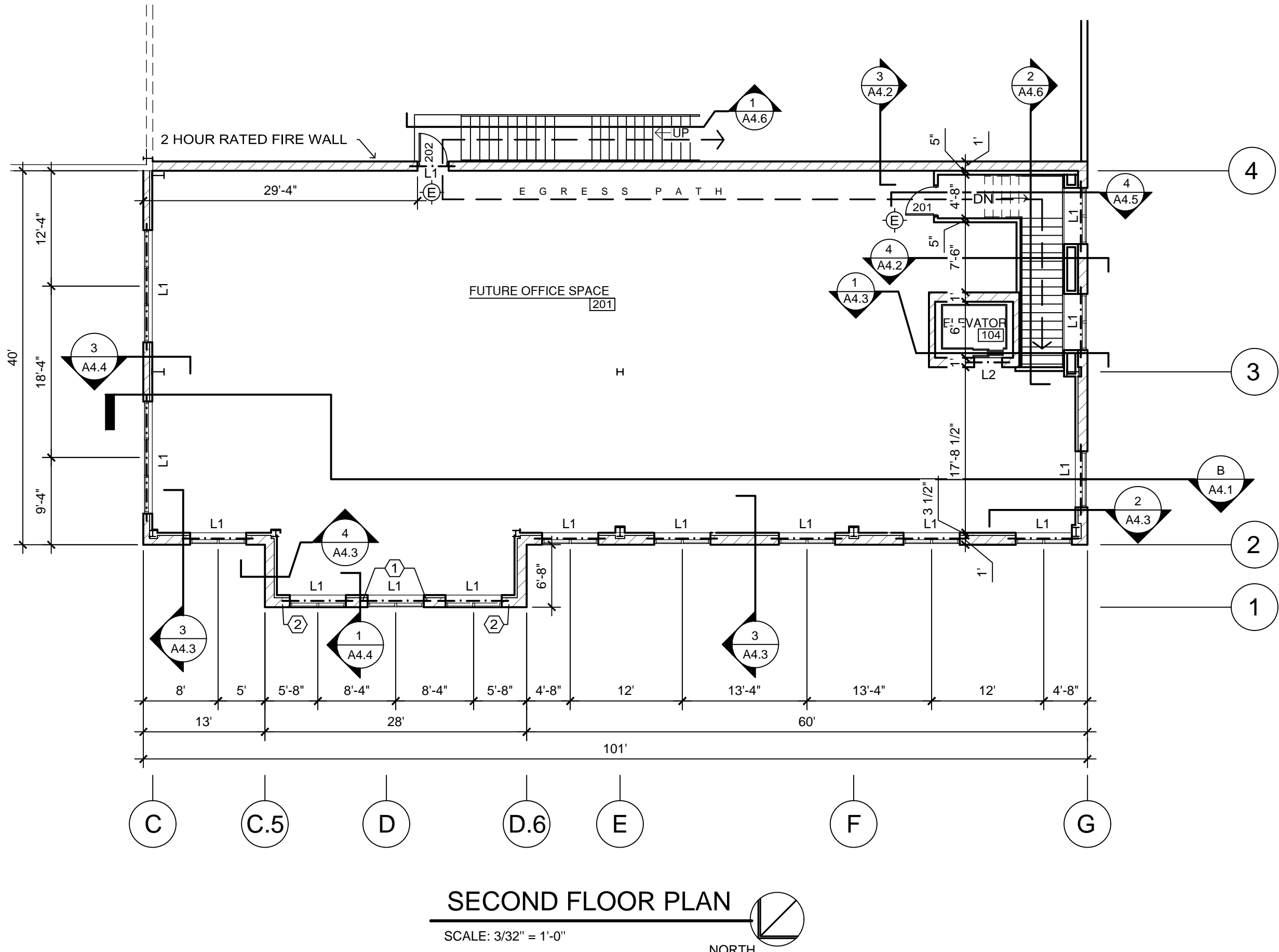
REMARKS

SECOND FLOOR GENERAL NOTES:

1. ALL DIMENSIONS ARE TO FINISH SURFACES
2. SEE SHEET S2.1 FOR LINTEL SCHEDULE
3. FILL (1) CORE ADJACENT TO ALL WALL OPENINGS W/ (1) VERTICAL BAR W/ GROUT FROM BOND BEAM BELOW TO LINTEL BEARING.
4. FOR LINTELS GREATER THAN 10'-0" LONG PROVIDE 3/8" X 4' LONG HEADED WELDED STUDS @ 32" O.C. ON TOP FLANGE.

SECOND FLOOR WORK NOTES:

- ① MASONRY PIER DETAIL 3/S3.1
- ② MASONRY PIER DETAIL 4/S3.1



SECOND FLOOR PLAN

SCALE: 3/32" = 1'-0"

THOMAS DESIGN INC
ARCHITECT

FOND DU LAC, WISCONSIN 920 948-8979
TDI JOB #2230



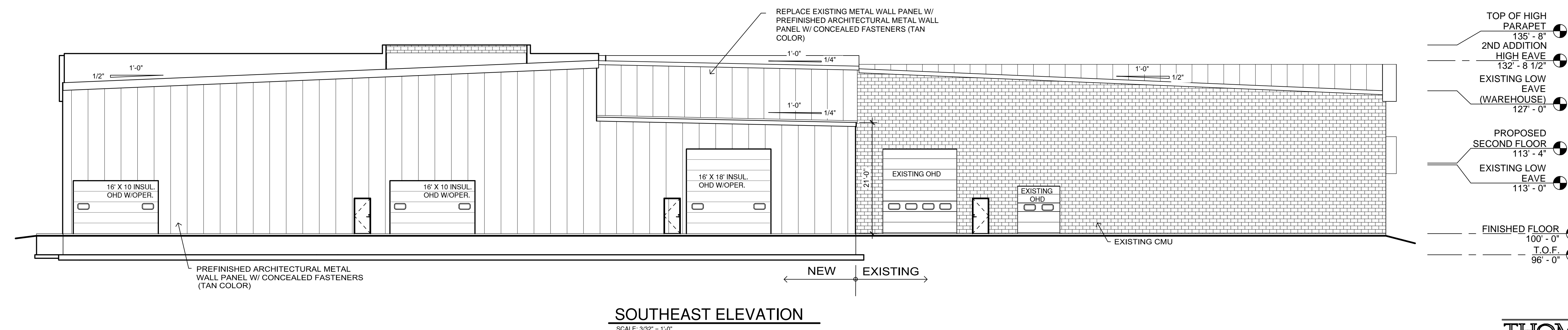
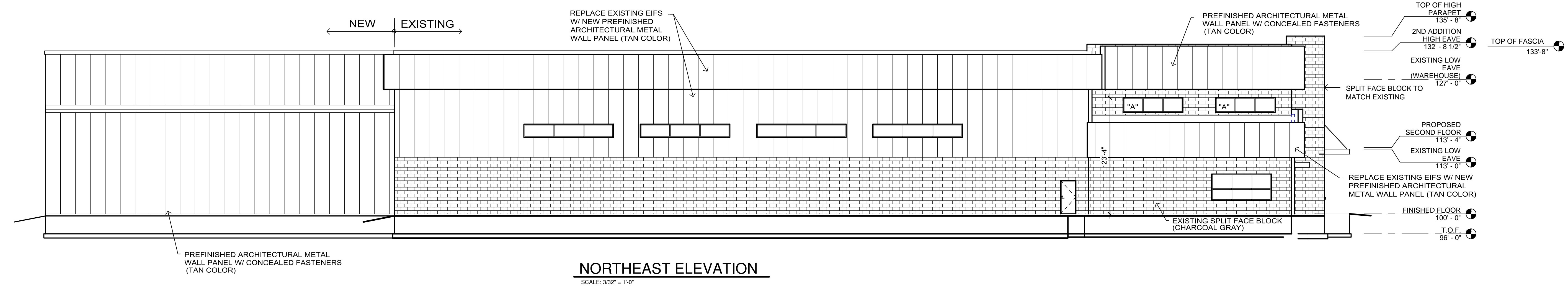
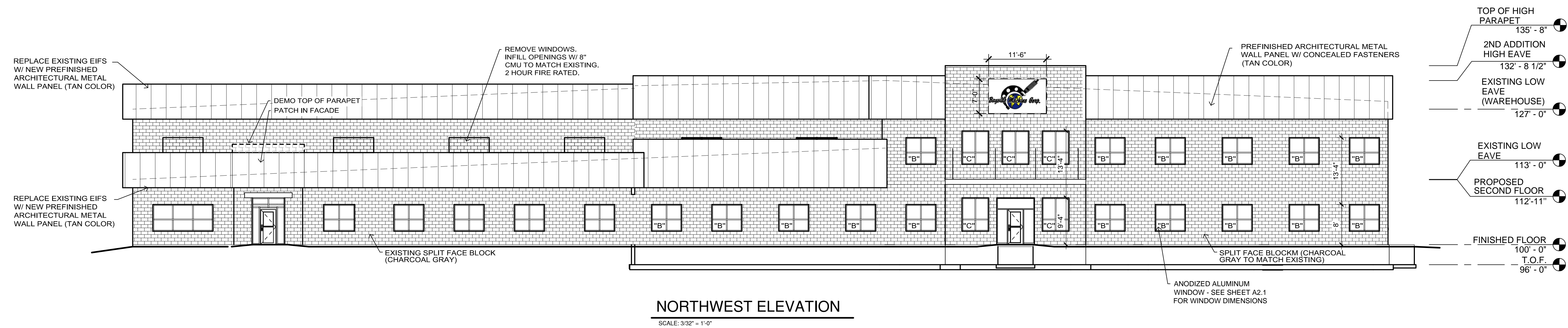
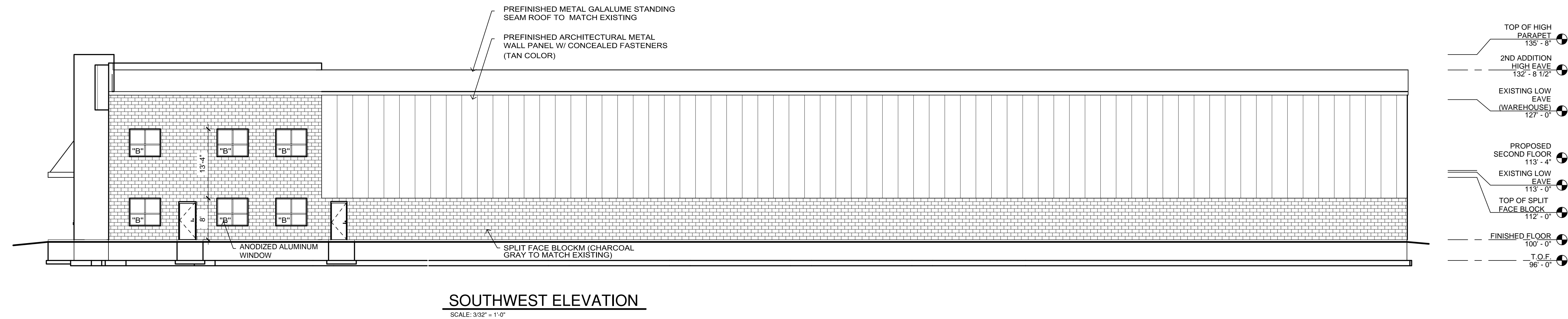
FOX CITIES BUILDERS, LLC.
N7315 CITY RD. Y - SUITE B
SEYMOUR, WISCONSIN 54165
PHONE (920) 833-9545
FAX (920) 833-9546

PLAN SET STAGE:
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APRIL 7, 2023

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2257 AMERICAN BOULEVARD, DE PERE, WI
SALES REP: JEREMY NOLL (920) 595-0345
DATE: DECEMBER 12, 2022

A1.2





Mirada Medium (MRM)

Outdoor LED Area Light



IP66 IK08



OVERVIEW

Lumen Package	7,000 - 55,000
Wattage Range	48 - 438
Efficacy Range (LPW)	115 - 162
Weight lbs(kg)	30 (13.6)
Control Options	IMSBT, ALB, ALS, 7-Pin, PCI

QUICK LINKS

[Ordering Guide](#)[Performance](#)[Photometrics](#)[Dimensions](#)

FEATURES & SPECIFICATIONS

Construction

- Rugged die-cast aluminum housing contains factory prewired driver and optical unit. Cast aluminum wiring access door located underneath.
- Designed to mount to square or round poles.
- Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.
- Shipping weight: 37 lbs in carton.

Optical System

- State-of-the-Art one piece silicone optic sheet delivers industry leading optical control with an integrated gasket to provide IP66 rated sealed optical chamber in 1 component.
- Proprietary silicone refractor optics provide exceptional coverage and uniformity in IES Types 2, 3, 4, 5W, FT, FTA, AM, and LC/RC.
- Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93-95%.
- Zero uplight.
- Available in 5000K, 4000K, and 3000K color temperatures per ANSI C78.377. Also Available in Phosphor Converted Amber with Peak intensity at 610nm.
- Minimum CRI of 70.
- Integral louver (IL) and integral half louver (IH) options available for enhanced backlight control.

Electrical

- High-performance programmable driver features over-voltage, under-voltage, short-circuit and over temperature protection. Custom lumen and wattage packages available.
 - 0-10V dimming (10% - 100%) standard.
 - Standard Universal Voltage (120-277 Vac) Input 50/60 Hz or optional High Voltage (347-480 Vac).
 - L80 Calculated Life: >100k Hours (See Lumen Maintenance chart)
 - Total harmonic distortion: <20%
 - Operating temperature: -40°C to +50°C (-40°F to +122°F). 42L and 48L lumen packages rated to +40°C. 55L lumen package rate to +35°C.
 - Power factor: >.90
 - Input power stays constant over life.
 - Field replaceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).
 - High-efficacy LEDs mounted to metal-core circuit board to maximize heat dissipation
 - Components are fully encased in potting material for moisture resistance. Driver complies with FCC standards. Driver and key electronic components can easily be accessed.
- ### Controls
- Optional integral passive infrared Bluetooth™ motion. Fixtures operate independently and can be commissioned via iOS or Android configuration app
 - LSI's AirLink™ wireless control system options reduce energy and maintenance

costs while optimizing light quality 24/7. (see controls section for more details).

Installation

- Designed to mount to square or round poles.
- A single fastener secures the hinged door, underneath the housing and provides quick & easy access to the electrical compartment.
- Included terminal block accepts up to 12 ga. wire.
- Utilizes LSI's traditional 3" drill pattern B3 for easy fastening of LSI products.

Warranty

- LSI LED Fixtures carry a 5-year warranty.

Listings

- Listed to UL 1598 and UL 8750.
- Meets Buy American Act requirements.
- IDA compliant; with 3000K color temperature selection.
- Title 24 Compliant; see local ordinance for qualification information.
- Suitable for wet Locations.
- IP66 rated Luminaire per IEC 60598.
- 3G rated for ANSI C136.31 high vibration applications are qualified.
- DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.
- Patented Silicone Optics (US Patent NO. 10,816,165 B2)
- IK08 rated luminaire per IEC 66262 mechanical impact code

Mirada Medium Outdoor LED Area Light

Type : _____

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ORDERING GUIDE

[Back to Quick Links](#)

TYPICAL ORDER EXAMPLE: MRM LED 36L SIL FTA UNV DIM 50 70CRI ALSCS04 BRZ IL							
Prefix	Light Source	Lumen Package	Lens	Distribution	Orientation ²	Voltage	Driver
MRM - Mirada Medium Area Light	LED	7L - 7,000 lms, 48W 9L - 9,000 lms, 62W 12L - 12,000 lms, 85W 18L - 18,000 lms, 135W 24L - 24,000 lms, 176W 30L - 30,000 lms, 232W 36L - 36,000 lms, 288W 42L - 42,000 lms, 314W 48L - 48,000 lms, 401W 55L - 55,000 lms, 438W Custom Lumen Packages ¹	SIL - Silicone	2 - Type 2 3 - Type 3 4 - Type 4 5W - Type 5 Wide FT - Forward Throw FTA - Forward Throw Automotive AM - Automotive Merchandise LC - Left Corner RC - Right Corner	(blank) - standard L - Optics rotated left 90° R - Optics rotated right 90°	UNV - Universal Voltage (120-277V) HV - High Voltage (347-480V)	DIM - 0-10V Dimming (0-10%)
Color Temp		Color Rendering	Finish		Options		
50 - 5,000 CCT 40 - 4,000 CCT 30 - 3,000 CCT AMB - Phosphor Converted Amber ¹²		70CRI - 70 CRI	BLK - Black BRZ - Dark Bronze GMG - Gun Metal Gray GPT - Graphite		MSV - Metallic Silver PLP - Platinum Plus SVG - Satin Verde Green WHT - White		
					(Blank) - None IH - Integral Half Louver (Moderate Spill Light Cutoff) ² IL - Integral Louver (Sharp Spill Light Cutoff) ²		

Controls (Choose One)

(Blank) - None

Wireless Controls System

- ALSC - AirLink Synapse Control System
- ALSCS02 - AirLink Synapse Control System with 12-20' Motion Sensor
- ALSCS04 - AirLink Synapse Control System with 20-40' Motion Sensor
- ALBCS1 - AirLink Blue Wireless Motion & Photo Sensor Controller (8-24' mounting height)⁵
- ALBCS2 - AirLink Blue Wireless Motion & Photo Sensor Controller (25-40' mounting height)⁵

Stand-Alone Controls

- EXT - 0-10V Dimming leads extended to housing exterior
- CR7P - 7 Pin Control Receptacle ANSI C136.41⁶
- IMSBTL1 - Integral Bluetooth™ Motion and Photocell Sensor (8-24' MH)⁵
- IMSBTL2 - Integral Bluetooth™ Motion and Photocell Sensor (25-40' MH)⁵

Button Type Photocells

- PC120 - 120V
- PC1208-277 - 208 - 277V
- PC1347 - 347V



Need more information?
Click here for our glossary

Have additional questions?
Call us at (800) 436-7800



ACCESSORY ORDERING INFORMATION⁷

CONTROLS ACCESSORIES	
Description	Order Number
PC120 Photocell for use with CR7P option (120V) ⁸	122514
PC208-277 Photocell for use with CR7P option (208V, 240V, 277V) ⁸	122515
Twist Lock Photocell (347V) for use with CR7P ⁹	122516
Twist Lock Photocell (480V) for use with CR7P ⁹	1225180
AirLink 5 Pin Twist Lock Controller ⁸	661409
AirLink 7 Pin Twist Lock Controller ⁸	661410
Shorting Cap for use with CR7P	149328

FUSING OPTIONS ¹¹	
Single Fusing (120V)	See Fusing Accessory Guide
Single Fusing (277V)	
Double Fusing (208V, 240V)	
Double Fusing (480V)	
Double Fusing (347V)	

SHIELDING OPTIONS	
Mirada Small	See Shielding Guide
Mirada Medium	
Mirada Large	
Zone Medium	
Zone Large	
Slice Medium	

1. Custom lumen and wattage packages available, consult factory. Values are within industry standard tolerances but not DLC listed.

2. Not available with 5W distribution

3. Consult Factory for availability.

4. Not available in HV.

5. Motion sensors are field configurable via an app that can be downloaded from your smartphone's native app store. See controls section for more details.

6. Control device or shorting cap must be ordered separately. See Accessory Ordering Information.
7. Accessories are shipped separately and field installed.

8. Factory installed CR7P option required. See Options.

9. "CLR" denotes finish. See Finish options.

10. Only available with ALSC/ALSCH control options.

11. Fusing must be located in hand hole of pole. See [Fusing Accessory Guide](#) for compatibility.

12. Only available in 9L, 12L, 18L and 24L Lumen Packages. Consult factory for lead time and availability.




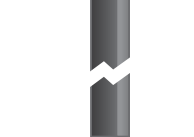

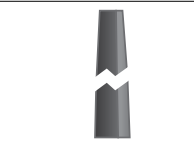

Mirada Medium Outdoor LED Area Light

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ACCESSORIES

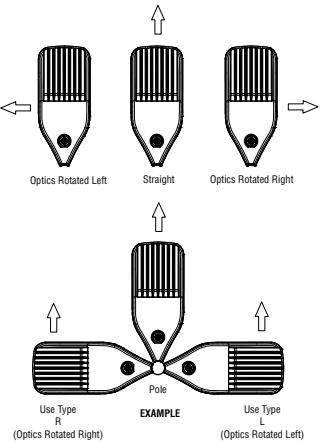
MOUNTING ACCESSORIES		
Side Arm	Universal Mounting Bracket Mounts to ≥ 3" square or round (tapered/straight) poles with (2) mounting hole spaces between 3.5" to 5" Part Number: BKA UMB CLR	
	Quick Mount Plate True one person installation to existing/new construction poles with hole spaces between 2.4 to 4.6" Part Number: BKS PQM B3B5 XX CLR	
	15° Tilt Quick Mount Plate True one person installation to existing/new construction poles with hole spaces between 2.4 to 4.6" Part Number: BKS PQ15 B3B5 XX CLR	
Tenon / Slipfitter	Adjustable Slipfitter Mounts onto a 2" (51mm) IP, 2.375" (60mm) O.D. tenon and provides 180° of tilt (max 45° above horizontal) Part Number: BKA ASF CLR	
	Square Tenon Top Mounts onto a 2" (51mm) IP, 2.375" (60mm) O.D. tenon and allows for mounting up to 4 luminaires Part Number: BKA XNM *	
	Square Internal Slipfitter Mounts inside 4" or 5" square pole and allows for mounting up to 4 luminaires Part Number: BKA X_ISF * CLR	
Wall Mount/ Wood Pole	Wall Mount Bracket Mounts onto vertical wall surface (hardware/anchors not included) Part Number: BKS XBO WM CLR	
	Wood Pole Bracket Mounts onto wooden poles (6" minimum OD, hardware/anchors not included) Part Number: BKS XBO WP CLR	

SHIELDING, POLES & MISC. ACCESSORIES		
Shielding	Integral Louver Field Install Integral Louver provides maximum backlight control by shielding each individual row of LEDs Part Number: 690981	
	Integral Half Louver Field Install Integral Half Louver provides great backlight control without impacting front side distribution. Part Number: 743415	
	External Shield External shield blocks view of light source from anyside of luminaire, additional shielding configurations available Part Number: 783607BLK (3") / 776538BLK (6")	
Poles	Square Poles 14 - 39" steel and aluminum poles in 4", 5" and 6" sizes for retrofit and new construction Part Number: 4SQ/5SQ/6SQ	
	Round Poles 10 - 30" steel and aluminum poles in 4" and 5" sizes for retrofit and new construction Part Number: 4RP/5RP	
	Tapered Poles 20' - 39" steel and aluminum poles for retrofit and new construction Part Number: RTP	
Misc.	Bird Spikes 10' Linear Bird Spike Kit, 4' recommended per luminaire, includes silicone adhesive and application tool Part Number: 736795	

Replace CLR with paint finish description
Replace XX with SQ for square pole or RD for round pole (≥3" OD)
Replace * with S (Single), D180 (Double @180°), D90 (Double @90°), T90 (Triple), Q90 (Quad)
Replace _ with 4 (4" square pole) or 5 (5" square pole)

OPTICS ROTATION

Top View



ACCESSORIES/OPTIONS

Integral Louver (IL) and House-Side Shield (IH)

Integral louver (IL) and half louver (IH) accessory shields available for improved backlight control without sacrificing street side performance. LSI's Integral Louver (IL) and Integral House-Side Shield (IH) options deliver backlight control that significantly reduces spill light behind the poles for applications with pole locations close to adjacent properties. The design maximizes forward reflected light while reducing glare, maintaining the optical distribution selected, and most importantly eliminating light trespass. Both options rotate

Luminaire Shown with Integral Louver (IL)



Luminaire Shown with IMSBTL Option



7 Pin Photoelectric Control

7-pin ANSI C136.41-2013 control receptacle option available for twist lock photocontrols or wireless control modules. Control accessories sold separately. Dimming leads from the receptacle will be connected to the driver dimming leads (Consult factory for alternate wiring).

Luminaire Shown with CR7P



Mirada Medium Outdoor LED Area Light

Type : _____

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PERFORMANCE

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DELIVERED LUMENS*												
Lumen Package	Distribution	CRI	3000K CCT			4000K CCT			5000K CCT			Wattage
			Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	
9L	2	70	9853	159	B2-U0-G2	9853	159	B2-U0-G2	9853	159	B2-U0-G2	62
	3		9926	160	B2-U0-G2	9926	160	B2-U0-G2	9926	160	B2-U0-G2	
	4		9178	148	B2-U0-G3	9713	157	B2-U0-G3	9498	153	B2-U0-G3	
	5W		9504	153	B3-U0-G2	9504	153	B3-U0-G2	9504	153	B3-U0-G2	
	FT		9856	159	B2-U0-G3	9856	159	B2-U0-G3	9856	159	B2-U0-G3	
	FTA		9900	160	B2-U0-G2	9900	160	B2-U0-G2	9900	160	B2-U0-G2	
	AM		10019	162	B2-U0-G1	10019	162	B2-U0-G1	10019	162	B2-U0-G1	
	LC/RC		9008	145	B2-U0-G3	9533	154	B2-U0-G3	9321	150	B2-U0-G3	
12L	2	70	13135	155	B3-U0-G2	13135	155	B3-U0-G2	13135	155	B3-U0-G2	85
	3		13232	156	B2-U0-G2	13232	156	B2-U0-G2	13232	156	B2-U0-G2	
	4		12223	144	B2-U0-G3	12935	152	B2-U0-G4	12648	149	B2-U0-G4	
	5W		12669	149	B4-U0-G2	12669	149	B4-U0-G2	12669	149	B4-U0-G2	
	FT		13138	155	B2-U0-G3	13138	155	B2-U0-G3	13138	155	B2-U0-G3	
	FTA		13196	155	B2-U0-G2	13196	155	B2-U0-G2	13196	155	B2-U0-G2	
	AM		13355	157	B2-U0-G2	13355	157	B2-U0-G2	13355	157	B2-U0-G2	
	LC/RC		11996	141	B2-U0-G3	12695	149	B2-U0-G3	12414	146	B2-U0-G3	
18L	2	70	19318	143	B3-U0-G3	19318	143	B3-U0-G3	19318	143	B3-U0-G3	135
	3		19461	144	B3-U0-G3	19461	144	B3-U0-G3	19461	144	B3-U0-G3	
	4		18013	133	B2-U0-G4	19063	141	B3-U0-G5	18640	138	B3-U0-G5	
	5W		18633	138	B4-U0-G2	18633	138	B4-U0-G2	18633	138	B4-U0-G2	
	FT		19324	143	B3-U0-G3	19324	143	B3-U0-G3	19324	143	B3-U0-G3	
	FTA		19408	144	B3-U0-G3	19408	144	B3-U0-G3	19408	144	B3-U0-G3	
	AM		19641	145	B3-U0-G2	19641	145	B3-U0-G2	19641	145	B3-U0-G2	
	LC/RC		17679	131	B2-U0-G3	18710	139	B2-U0-G3	18295	136	B2-U0-G3	
24L	2	70	23361	145	B4-U0-G3	24506	152	B4-U0-G3	24414	152	B4-U0-G3	161
	3		23998	149	B3-U0-G3	25174	156	B3-U0-G3	25079	156	B3-U0-G3	
	4		24397	152	B3-U0-G5	25600	160	B3-U0-G5	25457	159	B3-U0-G5	
	5W		23788	148	B5-U0-G3	24953	155	B5-U0-G3	24859	154	B5-U0-G3	
	FT		24059	149	B3-U0-G3	25238	157	B3-U0-G3	25143	156	B3-U0-G3	
	FTA		23079	143	B3-U0-G3	24210	150	B4-U0-G3	24119	150	B4-U0-G3	
	AM		24051	149	B3-U0-G2	25229	157	B3-U0-G2	25134	156	B3-U0-G2	
	LC/RC		25884	162	B3-U0-G4	25884	162	B3-U0-G4	25310	158	B3-U0-G4	
30L	2	70	29464	138	B4-U0-G3	30908	145	B4-U0-G3	30791	145	B4-U0-G3	213
	3		30268	142	B3-U0-G4	31751	149	B3-U0-G4	31631	149	B3-U0-G4	
	4		30631	144	B3-U0-G5	32141	151	B3-U0-G5	31961	150	B3-U0-G5	
	5W		30002	141	B5-U0-G3	31472	148	B5-U0-G3	31353	147	B5-U0-G3	
	FT		30345	142	B4-U0-G4	31832	149	B4-U0-G4	31712	149	B4-U0-G4	
	FTA		29109	137	B4-U0-G4	30535	143	B4-U0-G4	30420	143	B4-U0-G4	
	AM		30334	142	B4-U0-G3	31820	149	B4-U0-G3	31700	149	B4-U0-G3	
	LC/RC		32498	153	B3-U0-G5	32498	153	B3-U0-G5	31777	149	B3-U0-G5	

*LEDs are frequently updated therefore values are nominal.

Mirada Medium Outdoor LED Area Light

Type : _____

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PERFORMANCE (CONT.)

DELIVERED LUMENS*												
Lumen Package	Distribution	CRI	3000K CCT			4000K CCT			5000K CCT			Wattage
			Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	
36L	2	70	34123	134	B4-U0-G3	35795	140	B4-U0-G3	35660	140	B4-U0-G3	255
	3		35053	137	B4-U0-G4	36771	144	B4-U0-G4	36632	144	B4-U0-G4	
	4		35402	139	B3-U0-G5	37148	146	B4-U0-G5	36940	145	B4-U0-G5	
	5W		34745	136	B5-U0-G4	36448	143	B5-U0-G4	36311	142	B5-U0-G4	
	FT		35142	138	B4-U0-G4	36864	145	B4-U0-G4	36725	144	B4-U0-G4	
	FTA		33711	132	B4-U0-G4	35363	139	B4-U0-G4	35230	138	B4-U0-G4	
	AM		35130	138	B4-U0-G3	36851	145	B4-U0-G3	36712	144	B4-U0-G3	
	LC/RC		37561	147	B3-U0-G5	37561	147	B3-U0-G5	36727	144	B3-U0-G5	
42L	2	70	39966	127	B5-U0-G4	41925	134	B5-U0-G4	41767	133	B5-U0-G4	314
	3		41056	131	B4-U0-G5	43068	137	B4-U0-G5	42905	137	B4-U0-G5	
	4		41453	132	B4-U0-G5	43497	138	B4-U0-G5	43254	138	B4-U0-G5	
	5W		40696	130	B5-U0-G4	42690	136	B5-U0-G4	42529	135	B5-U0-G4	
	FT		41161	131	B4-U0-G4	43178	138	B4-U0-G4	43015	137	B4-U0-G4	
	FTA		39484	126	B4-U0-G4	41419	132	B5-U0-G4	41263	131	B5-U0-G4	
	AM		41146	131	B4-U0-G3	43162	137	B4-U0-G3	43000	137	B4-U0-G3	
	LC/RC		43980	140	B3-U0-G5	43980	140	B3-U0-G5	43004	137	B3-U0-G5	
48L	2	70	44390	121	B5-U0-G4	46565	127	B5-U0-G4	46389	126	B5-U0-G4	367
	3		45325	124	B4-U0-G5	47547	130	B4-U0-G5	47367	129	B4-U0-G5	
	4		46006	126	B4-U0-G5	48275	132	B4-U0-G5	48005	131	B4-U0-G5	
	5W		45002	123	B5-U0-G4	47435	129	B5-U0-G4	47302	129	B5-U0-G4	
	FT		44799	122	B4-U0-G5	46994	128	B4-U0-G5	46817	128	B4-U0-G5	
	FTA		44590	121	B5-U0-G4	46775	127	B5-U0-G4	46599	128	B5-U0-G4	
	AM		46310	126	B4-U0-G3	48579	132	B4-U0-G3	48396	132	B4-U0-G3	
	LC/RC		48811	133	B4-U0-G5	48811	133	B4-U0-G5	47728	130	B4-U0-G5	
55L	2	70	49583	114	B5-U0-G4	52012	119	B5-U0-G4	51816	119	B5-U0-G4	436
	3		50934	117	B4-U0-G5	53430	123	B4-U0-G5	53229	122	B4-U0-G5	
	4		51635	119	B4-U0-G5	54181	125	B4-U0-G5	53878	124	B4-U0-G5	
	5W		50487	116	B5-U0-G4	52961	121	B5-U0-G4	52761	121	B5-U0-G4	
	FT		51064	117	B4-U0-G5	53566	123	B4-U0-G5	53364	122	B4-U0-G5	
	FTA		48984	112	B5-U0-G4	51384	118	B5-U0-G4	51191	117	B5-U0-G4	
	AM		51045	117	B4-U0-G3	53546	123	B4-U0-G3	53344	122	B4-U0-G3	
	LC/RC		54113	124	B4-U0-G5	54113	124	B4-U0-G5	52912	121	B4-U0-G5	

*LEDs are frequently updated therefore values are nominal.

Mirada Medium Outdoor LED Area Light

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PERFORMANCE (CONT.)

ELECTRICAL DATA (AMPS)*						
Lumens	120V	208V	240V	277V	347V	480V
9L	0.52	0.30	0.26	0.22	0.18	0.13
12L	0.71	0.41	0.35	0.31	0.24	0.18
18L	1.13	0.65	0.56	0.49	0.39	0.28
24L	1.33	0.77	0.67	0.58	0.46	0.33
30L	1.78	1.02	0.89	0.77	0.61	0.44
36L	2.12	1.22	1.06	0.92	0.73	0.53
42L	2.62	1.51	1.31	1.13	0.90	0.65
48L	3.05	1.76	1.53	1.32	1.05	0.76
55L	3.65	2.11	1.83	1.58	1.26	0.91

RECOMMENDED LUMEN MAINTENANCE¹ (0-25°C)					
Ambient	Initial²	25h²	50hr²	75hr²	100hr²
9L - 18L	100%	97%	93%	90%	86%
24L - 48L	100%	95%	89%	84%	79%
55L	100%	91%	82%	74%	67%

RECOMMENDED LUMEN MAINTENANCE¹ (40°C)					
Ambient	Initial²	25h²	50hr²	75hr²	100hr²
9L - 18L	100%	97%	92%	88%	84%
24L - 48L	100%	94%	87%	80%	74%

RECOMMENDED LUMEN MAINTENANCE¹ (50°C)					
Ambient	Initial²	25h²	50hr²	75hr²	100hr²
9L - 18L C	100%	96%	91%	87%	83%

*Electrical data at 25°C (77°F). Actual wattage may differ by +/-10%

1. Lumen maintenance values at 25C are calculated per TM-21 based on LM-80 data and in-situ testing.
2. In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times the IESNA LM-80-08 total test duration for the device under testing.
3. In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times the IESNA LM-80-08 total test duration for the device under testing.

DELIVERED LUMENS*					
Lumen Package	Distribution	Phosphor Converted Amber (Peak 610nm)			Wattage
		Delivered Lumens	Efficacy	BUG Rating	
9L	2	5848	80	B2-U0-G2	74
	3	6018	82	B1-U0-G2	
	5W	5471	74	B3-U0-G1	
	FT	5801	79	B1-U0-G2	
	FTA	5924	81	B1-U0-G1	
	AM	5995	81	B1-U0-G1	
12L	2	7530	74	B2-U0-G2	102
	3	7749	76	B1-U0-G2	
	5W	7045	69	B3-U0-G2	
	FT	7470	73	B2-U0-G2	
	FTA	7628	75	B2-U0-G2	
	AM	7720	76	B1-U0-G1	
18L	2	9311	69	B2-U0-G2	135
	3	9582	71	B2-U0-G2	
	5W	8712	65	B3-U0-G2	
	FT	9237	68	B2-U0-G2	
	FTA	9433	70	B2-U0-G2	
	AM	9546	71	B2-U0-G1	
24L	2	10955	63	B2-U0-G2	175
	3	11273	64	B2-U0-G2	
	5W	10249	59	B3-U0-G2	
	FT	10867	62	B2-U0-G2	
	FTA	11097	63	B2-U0-G2	
	AM	11230	64	B2-U0-G1	

ELECTRICAL DATA - PHOSPHOR CONVERTED AMBER (AMPS)*						
Lumens	120V	208V	240V	277V	347V	480V
9L	0.62	0.36	0.31	0.27	0.21	0.15
12L	0.85	0.50	0.43	0.38	0.30	0.22
18L	1.13	0.65	0.56	0.49	0.39	0.28
24L	1.47	0.85	0.73	0.64	0.51	0.37

*LEDs are frequently updated therefore values are nominal.

Mirada Medium Outdoor LED Area Light

Type : _____

 Have questions? Call us at (800) 436-7800

PHOTOMETRICS

[Back to Quick Links](#)

Luminaire photometry has been conducted by a NVLAP accredited testing laboratory in accordance with IESNA LM-79-08. As specified by IESNA LM-79-08 the entire luminaire is tested as the source resulting in a luminaire efficiency of 100%.

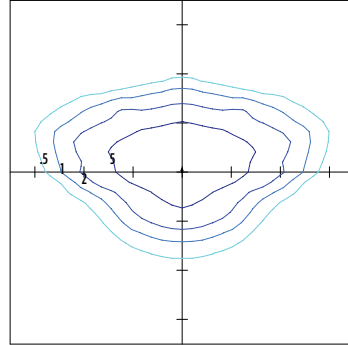
See the individual product page on <https://www.isicorp.com/> for detailed photometric data.

MRM-LED-30L-SIL-2-40-70CRI

Luminaire Data	
Type 2 Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	32,416
Watts	232
Efficacy	140
IES Type	Type II - Short
BUG Rating	B4-U0-G3

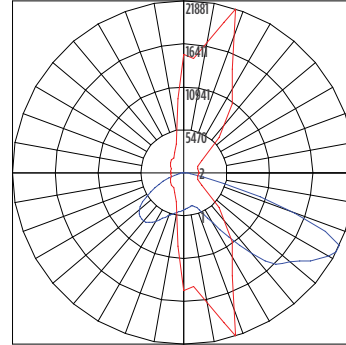
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
Low (0-30°)	4796	15%
Medium (30-60°)	19811	61%
High (60-80°)	7474	23%
Very High (80-90°)	335	1%
Uplight (90-180°)	0	0%
Total Flux	32416	100%

ISO Footcandle



25' Mounting Height / 25' Grid Spacing
■ 5 FC ■ 2 FC ■ 1 FC ■ 0.5 FC

Polar Curve



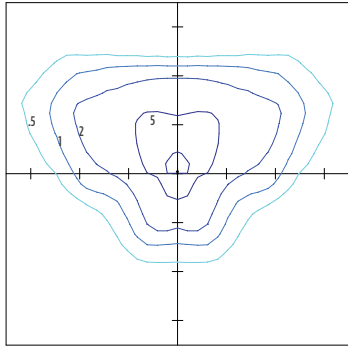
■ Vertical Plane ■ Horizontal Cone

MRM-LED-30L-SIL-3-40-70CRI

Luminaire Data	
Type 3 Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	32,656
Watts	232
Efficacy	141
IES Type	Type III - Short
BUG Rating	B3-U0-G4

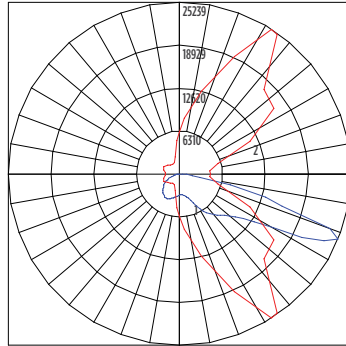
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
Low (0-30°)	3385	10%
Medium (30-60°)	16250	50%
High (60-80°)	12430	38%
Very High (80-90°)	591	2%
Uplight (90-180°)	0	0%
Total Flux	32656	100%

ISO Footcandle



25' Mounting Height / 25' Grid Spacing
■ 5 FC ■ 2 FC ■ 1 FC ■ 0.5 FC

Polar Curve



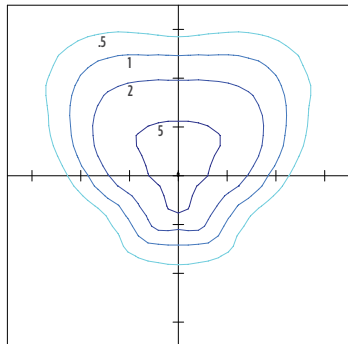
■ Vertical Plane ■ Horizontal Cone

MRM-LED-30L-SIL-FT-40-70CRI

Luminaire Data	
Type FT Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	32,424
Watts	232
Efficacy	140
IES Type	Type IV - Short
BUG Rating	B3-U0-G4

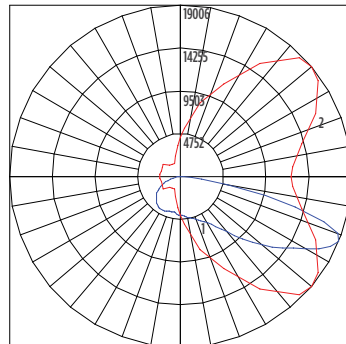
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
Low (0-30°)	3952	12%
Medium (30-60°)	15505	48%
High (60-80°)	12279	38%
Very High (80-90°)	688	2%
Uplight (90-180°)	0	0%
Total Flux	32424	100%

ISO Footcandle



25' Mounting Height / 25' Grid Spacing
■ 5 FC ■ 2 FC ■ 1 FC ■ 0.5 FC

Polar Curve



■ Vertical Plane ■ Horizontal Cone



Mirada Medium Outdoor LED Area Light

Type : _____

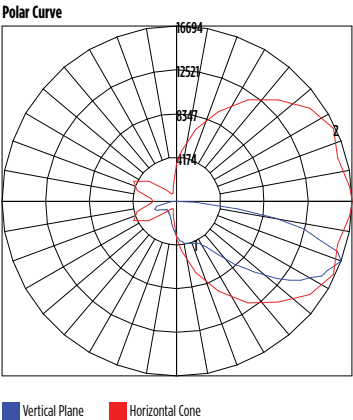
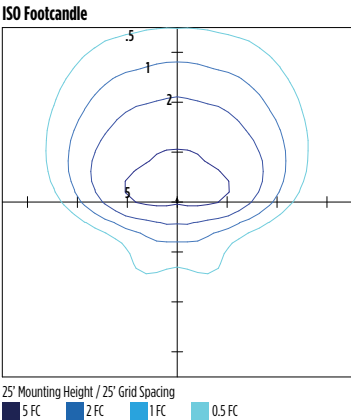
 Have questions? Call us at (800) 436-7800

PHOTOMETRICS (CONT)

MRM-LED-30L-SIL-4-40-70CRI

Luminaire Data	
Type 4 Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	32,141
Watts	213
Efficacy	151
IES Type	Type IV - Very Short
BUG Rating	B3-U0-G5

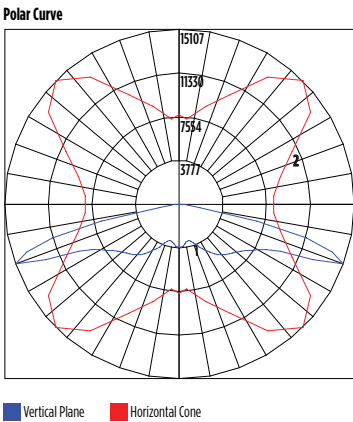
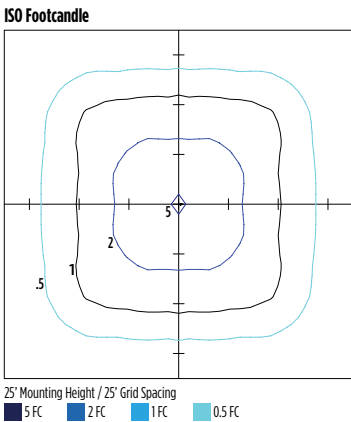
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
Low (0-30°)	3119	10%
Medium (30-60°)	13569	42%
High (60-80°)	13649	42%
Very High (80-90°)	1804	6%
Uplight (90-180°)	0	0%
Total Flux	32141	100%



MRM-LED-30L-SIL-5W-40-70CRI

Luminaire Data	
Type 5W Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	31,267
Watts	232
Efficacy	135
IES Type	Type VS - Short
BUG Rating	B5-U0-G3

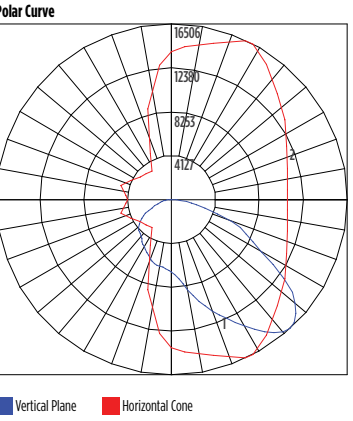
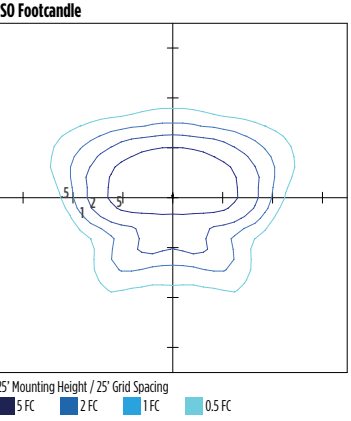
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
Low (0-30°)	3138	10%
Medium (30-60°)	13193	42%
High (60-80°)	14641	47%
Very High (80-90°)	296	1%
Uplight (90-180°)	0	0%
Total Flux	31267	100%



MRM-LED-30L-SIL-FTA-40-70CRI

Luminaire Data	
Type FTA Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	32,566
Watts	232
Efficacy	140
IES Type	Type VS - Short
BUG Rating	B4-U0-G3

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
Low (0-30°)	6986	21%
Medium (30-60°)	19172	59%
High (60-80°)	5875	18%
Very High (80-90°)	534	2%
Uplight (90-180°)	0	0%
Total Flux	32566	100%



Mirada Medium Outdoor LED Area Light

Type : _____

 Have questions? Call us at (800) 436-7800

PHOTOMETRICS (CONT)

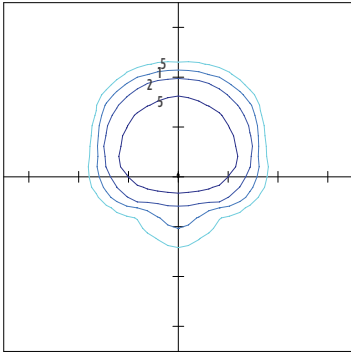
[Back to Quick Links](#)

MRM-LED-30L-SIL-AM-40-70CRI

Luminaire Data		
Type AM Distribution		
Description	4000 Kelvin, 70 CRI	
Delivered Lumens	32,960	
Watts	232	
Efficacy	142	
IES Type	Type III - Very Short	
BUG Rating	B3-U0-G3	

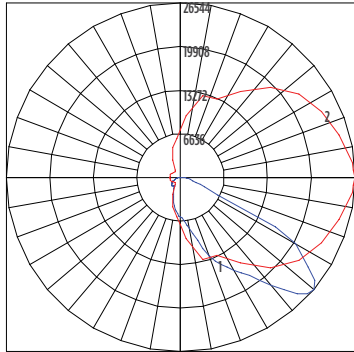
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
Low (0-30°)	6363	19%
Medium (30-60°)	22026	67%
High (60-80°)	4192	13%
Very High (80-90°)	379	1%
Uplight (90-180°)	0	0%
Total Flux	32960	100%

ISO Footcandle



25' Mounting Height / 25' Grid Spacing
■ 5 FC ■ 2 FC ■ 1 FC ■ 0.5 FC

Polar Curve



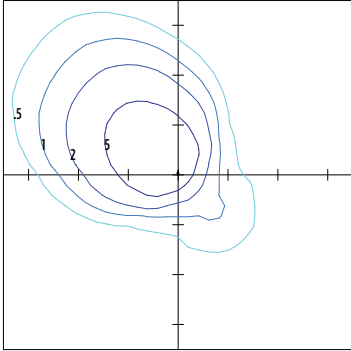
■ Vertical Plane ■ Horizontal Cone

MRM-LED-30L-SIL-LC-40-70CRI

Luminaire Data		
Left Corner Distribution		
Description	4000 Kelvin, 70 CRI	
Delivered Lumens	32,498	
Watts	213	
Efficacy	153	
IES Type	N/A	
BUG Rating	B3-U0-G5	

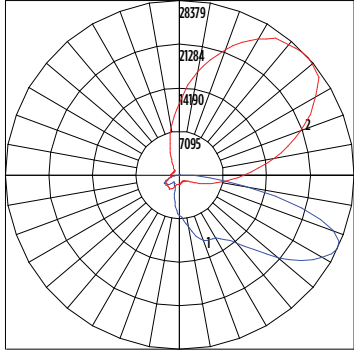
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
Low (0-30°)	5083	16%
Medium (30-60°)	14808	46%
High (60-80°)	11603	36%
Very High (80-90°)	1005	3%
Uplight (90-180°)	0	0%
Total Flux	32498	100%

ISO Footcandle



25' Mounting Height / 25' Grid Spacing
■ 5 FC ■ 2 FC ■ 1 FC ■ 0.5 FC

Polar Curve



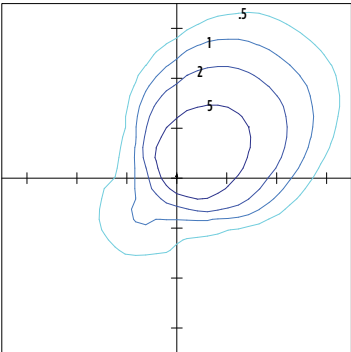
■ Vertical Plane ■ Horizontal Cone

MRM-LED-30L-SIL-RC-40-70CRI

Luminaire Data		
Right Corner Distribution		
Description	4000 Kelvin, 70 CRI	
Delivered Lumens	32,498	
Watts	213	
Efficacy	153	
IES Type	N/A	
BUG Rating	B3-U0-G5	

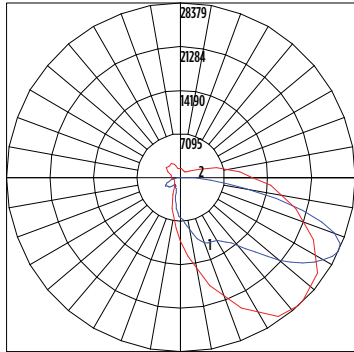
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
Low (0-30°)	5083	16%
Medium (30-60°)	14808	46%
High (60-80°)	11603	36%
Very High (80-90°)	1005	3%
Uplight (90-180°)	0	0%
Total Flux	32498	100%

ISO Footcandle



25' Mounting Height / 25' Grid Spacing
■ 5 FC ■ 2 FC ■ 1 FC ■ 0.5 FC

Polar Curve



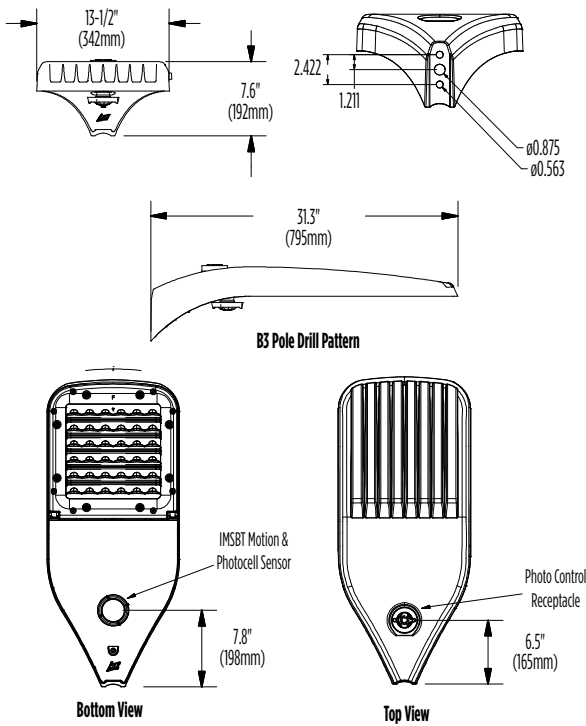
■ Vertical Plane ■ Horizontal Cone







Mirada Medium Outdoor LED Area Light

Type : _____

 Have questions? Call us at (800) 436-7800

PRODUCT DIMENSIONS



Luminaire EPA Chart					
Tilt Degree		0°	15°	30°	45°
	Single	0.5	1.0	1.5	1.9
	D180°	1.0	1.5	1.5	1.9
	D90°	0.8	1.8	1.9	2.3
	T90°	1.0	4.0	2.5	2.8
	TN120°	1.0	2.9	3.3	3.9
	Q90°	1.0	4.0	2.5	2.8

Mirada Medium Outdoor LED Area Light

Type : _____

 Have questions? Call us at (800) 436-7800

CONTROLS

Integral Bluetooth™ Motion and Photocell Sensor (IMSBTxL)

Slim low profile sensor provides multi-level control based on motion and/or daylight. Sensor controls 0-10 VDC LED drivers and is IP66 rated for cold and wet locations (-40°F to 167°F). Two unique PIR lenses are available and used based on fixture mounting height. All control parameters are adjustable via an iOS or Android App capable of storing and transmitting sensor profiles.

[Click here to learn more details about IMSBT](#)



LEVITON App



Apple



Android

AirLink Blue (ALBCSx)

Wireless Bluetooth Mesh Outdoor Lighting Control System that provides energy savings, code compliance and enhanced safety/security for parking lots and parking garages. Three key components; Bluetooth wireless radio/sensor controller, Time Keeper and an iOS App. Capable of grouping multiple fixtures and sensors as well as scheduling time-based events by zone. Radio/Sensor Controller is factory integrated into Area/Site, Wall Mounted, Parking Garage and Canopy luminaires.

[Click here to learn more details about AirLink Blue](#)



AirLink Blue App



Apple

Sensor Sequence of Operations

Standard Programming	On Event	Off Event	On Light Level	Dim Light Level	Daylight Harvesting	Delay To Off	Sensitivity
OMSBTxL/IMSBTxL	Motion	No Motion	100%	N/A	On; Auto Calibration	20 minutes	High
OMS	Motion	No Motion	N/A	N/A	N/A	30 seconds	Auto

Operation	Description
On Event	Trigger that activates lights to turn on; either automatic via motion detected or manually activated via push of button.
Off Event	Trigger that activates lights to turn off; either automatic via no motion detected or manually activated via push of button.
On Light Level	The light level that the fixtures will turn on to when ON EVENT occurs.
Dim Light Level	The light level that the fixtures will dim down to when no motion is detected.
Delay to Dim	The amount of time after which no motion is detected that the fixtures will be triggered to dim down. This sequence is optional, and sensor can be programmed to only trigger the fixture to turn off by entering 100% in this field.
Delay to Off	The amount of time after which no motion is detected that the fixtures will be triggered to turn off. If delay to dim is part of the programmed functionality, this is the amount of time after which no motion is detected after the fixture have already dimmed down.
Sensitivity	The sensitivity can be set to high, medium, low, or auto where applicable. High will detect smaller, simple motions. Low will only detect larger more complex motions. Auto temperature calibration adjusts the PIR sensitivity as ambient temperature rises to increase detection of heat movement through the field of view.



Catalog # :

Project :

Prepared By :

Date :



WLL Series Large LED Wall Light



Manufactured with high density, 100% pure aluminum ingot resulting in greater durability and better thermal conductivity. These patented designs, with labor saving features, retain a familiar form with attractive architectural styling and external airflow fins.

Features & Specifications

Optical System

- Using the latest high brightness, high LED count technology, more usable light output is produced while eliminating glare.
- The fixture design directs more light down and forward without wasting lumens and offensive light.
- Available in 3000K, 4000K & 5000K color temperatures.
- Minimum CRI of 82

Electrical

- High-performance driver features over-voltage, under voltage, short-circuit and over temperature protection.
- 0-10 volt dimming (10% - 100%) standard.
- Standard Universal Voltage (120-277 Vac) Input 50/60 Hz or optional High Voltage (347-480 Vac).
- L70 Calculated Life: >100k Hours
- Total harmonic distortion: <20%
- Power factor: >.85
- Input power stays constant over life.
- Driver Off-State Power is 0 watts.
- Components are fully encased in potting material for moisture resistance. Driver complies with FCC standards. Driver and key electronic components can easily be accessed.
- Minimum 6kV surge rating
- Optional 120v-277v integral emergency battery pack is available to meet critical life safety lighting requirements. The 90-minute batteries provide constant power to the LED system, ensuring code compliance. A test switch/indicator button is installed on the housing for ease of maintenance.

Controls

- Optional 120V electronic button Photocontrol.
- Apertures for field or factory installed photocontrol.

Construction

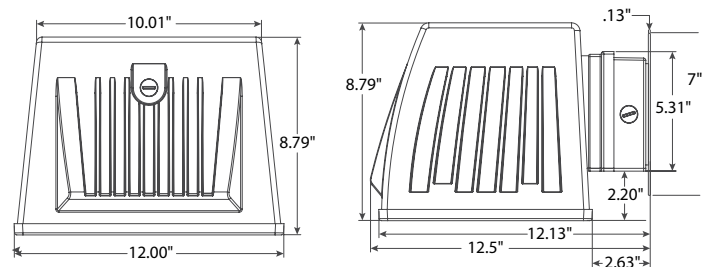
- Designed for commercial and industrial applications, providing cooler operating temperatures, brighter light and longer LED life.
- Manufactured w/ 100% pure aluminum and 0% remelt.
- Apertures for field or factory installed photocontrol.



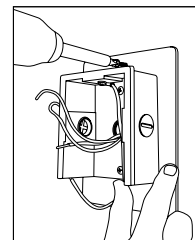
Dimmable



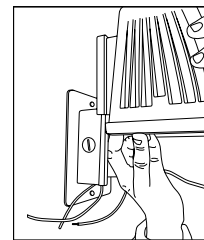
Dimensions Design is Protected by US Patent D740,997



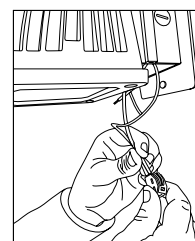
Mounting Protected by US Patent D752,274



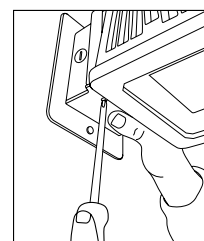
Secure Mounting Plate
with back box to wall



Slide fixture housing onto
mounting box



Connect wires & return
them to mounting box



Replace bottom plate on
quick mount box



WLL Series Large LED Wall Light

Features & Specifications (Cont.)

- Patent pending thermal stacking technology system features a unique internal design that allows for lower operating temperatures which results in a brighter, whiter light, more stable color and longer LED and driver life.
- LSI LEDs provide higher lumen output, greater energy efficiency and more reliable fixture performance.
- LEDs manufactured for the WLL series utilize Epoxy Guard conformal coating which reduces the chance of board corrosion.
- Weight: 21.5 lbs.

Warranty

- LSI LED Fixtures carry a 5-year warranty.
- 1 Year warranty on optional Button Photocell.
- 1 Year warranty on optional Battery Back Up. Test regularly in accordance with local codes.

Listings

- Listed to UL 1598 and UL 8750.
- CSA Listed
- RoHS Compliant.
- American Recovery and Reinvestment Act Funding Compliant.
- Suitable For Wet Locations.

Installation

- Labor-saving quick mount box with apertures for continuous wiring.

Finishes

- Bronze is standard. Consult factory for pricing and lead time for other options.

Emergency Battery Back Up

- Provides emergency illumination (1,580 lumens) for a minimum of 90 minutes.

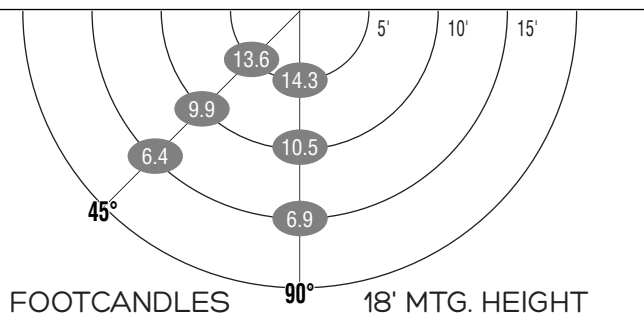
Performance

Lumens	3000K		4000K		5000K		Wattage
	Delivered Lumens	Efficacy	Delivered Lumens	Efficacy	Delivered Lumens	Efficacy	
11L	10730	120.66	10730	120.66	11140	125.68	88.93
14L	12720	125.43	12720	125.43	13090	129.16	101.41

Energy Savings

LED		HID			Annual Savings
Wattage	Annual Cost	Source Wattage	Total Wattage Used	Annual Cost	
86	\$38	320	366	\$187	\$149
102	\$45	400	458	\$226	\$181

Photometrics - 14L



FOOTCANDLES 90° 18' MTG. HEIGHT

FOOTCANDLES ON THE GROUND							
Mounting Height	90°			45°			Avg FCs 450 sq. feet
	5'	10'	15'	5'	10'	15'	
22'	12.3	10.0	7.5	11.9	9.7	7.1	9.7
25'	9.7	8.3	6.6	9.5	8.1	6.3	8.1

Luminaire Ordering Guide

TYPICAL ORDER EXAMPLE: **WLL LED 14L UNV DIM 40 BZA**

Family Prefix	Lumen Package	Voltage	Dimming	Color Temp	Color Rendering	Options	Finishes	Controls
WLL LED - Large LED Wall Light	11L - 11,000 Lumens 14L - 14,000 Lumens	UNV - Universal (120V-277V) HV - 347-480V Universal Voltage	DIM - Dim to 10% (0 to 10V)	30 - 3000K 40 - 4000K 50 - 5000K	Blank - 80 Color Rendering Index	CWBB - Cold Weather Emergency Battery Back Up	BZA - Bronze WHT - White BLK - Black	PC120 - 120V Button Photocell PC208-277 - 208-277V Photocell

Catalog # :

Project :

Prepared By :

Date :



WLS Small LED Wall Light

Manufactured with high density, 100% pure aluminum ingot resulting in greater durability and better thermal conductivity. These patented designs, with labor saving features, retain a familiar form with attractive architectural styling and external airflow fins.

Features & Specifications

Optical System

- Using the latest high brightness, high LED count technology, more usable light output is produced while eliminating glare.
- The fixture design directs more light down and forward without wasting lumens and offensive light.
- Available in 3000K, 4000K & 5000K color temperatures.
- Minimum CRI of 82

Electrical

- High-performance driver features over-voltage, under voltage, short-circuit and over temperature protection.
- 0-10 volt dimming (10% - 100%) standard.
- Standard Universal Voltage (120-277 Vac) Input 50/60 Hz
- L70 Calculated Life: >100k Hours
- Total harmonic distortion: <20%
- Power factor: >.85
- Input power stays constant over life.
- Driver Off-State Power is 0 watts.
- Components are fully encased in potting material for moisture resistance. Driver complies with FCC standards. Driver and key electronic components can easily be accessed.
- Minimum 2.5kV surge rating

Controls

- Optional 120V electronic button Photocontrol.
- Apertures for field or factory installed photocontrol.

Construction

- Designed for commercial and industrial applications, providing cooler operating temperatures, brighter light and longer LED life.
- Manufactured w/ 100% pure aluminum and 0% remelt.
- Apertures for field or factory installed photocontrol.
- Patent pending thermal stacking technology system features a unique internal design that allows for lower operating temperatures which results in a brighter, whiter light, more stable color and longer LED and driver life.
- LSI LEDs provide higher lumen output, greater energy efficiency and more reliable fixture performance.

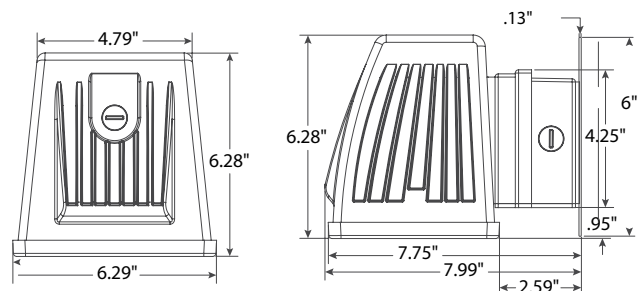


Dimmable

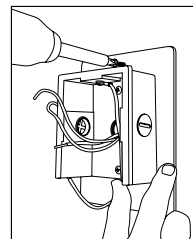


3000k must be selected
to meet IDA criteria

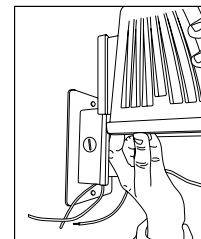
Dimensions Design is Protected by US Patent D710,530



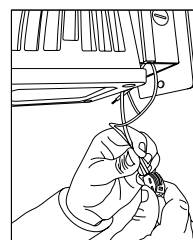
Mounting Protected by US Patent D752,274



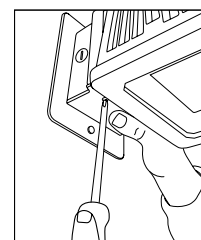
Secure Mounting Plate
with back box to wall



Slide fixture housing onto
mounting box



Connect wires & return
them to mounting box



Replace bottom plate on
quick mount box



WLS Small LED Wall Light

Features & Specifications (Cont.)

- LEDs manufactured for the WLS series utilize Epoxy Guard conformal coating which reduces the chance of board corrosion.
- Weight: 7.5 lbs.

Warranty

- LSI LED Fixtures carry a 5-year warranty.
- 1 Year warranty on optional Button Photocell.

Listings

- Listed to UL 1598 and UL 8750.
- CSA Listed
- RoHS Compliant.
- American Recovery and Reinvestment Act Funding Compliant.
- Suitable For Wet Locations.

Installation

- Labor-saving quick mount box with apertures for continuous wiring.

Finishes

- Bronze is standard. Consult factory for pricing and lead time for other options.

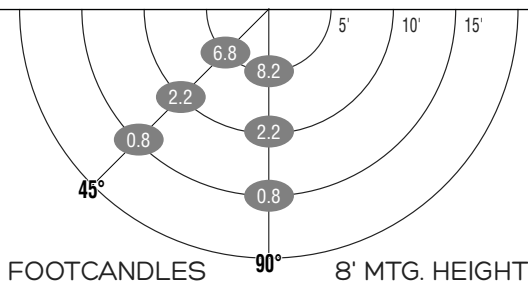
Performance

Lumens	3000K		4000K		5000K		Wattage
	Delivered Lumens	Efficacy	Delivered Lumens	Efficacy	Delivered Lumens	Efficacy	
1L	1629	120.74	1629	120.74	1682	124.60	13.91
3L	3132	113.66	3132	113.66	3261	118.41	27.56

Energy Savings

LED		HID			Annual Savings
Wattage	Annual Cost	Source Wattage	Total Wattage Used	Annual Cost	
13	\$6	50	72	\$52	\$46
13	\$6	70	90	\$59	\$53
27	\$12	100	129	\$77	\$65

Photometrics - 3L



FOOTCANDLES ON THE GROUND							
Mounting Height	90°			45°			Avg FCs 450 sq. feet
	5'	10'	15'	5'	10'	15'	
10'	11.7	4.7	1.9	10.3	4.4	1.9	5.8
12'	9.1	4.6	2.1	8.2	4.3	2.1	5.1

Luminaire Ordering Guide

TYPICAL ORDER EXAMPLE: **WLS LED 3L UNV DIM 30 BZA**

Family Prefix	Lumen Package	Voltage	Dimming	Color Temp	Color Rendering	Finishes	Options/Controls
WLS LED - Small LED Wall Light	1L - 1,000 Lumens 3L - 3,000 Lumens	UNV - Universal (120V-277V)	DIM - Dim to 10% (0 to 10V)	30 - 3000K 40 - 4000K 50 - 5000K	Blank - 80 Color Rendering Index	BZA - Bronze WHT - White BLK - Black	PC120 - 120V Button Photocontrol PC208-277 - 208-277V Photocontrol



Mirada Small Wall Sconce Silicone (XWS SIL)

Outdoor LED Wall Light



OVERVIEW

Lumen Package (lm)	2,000 - 8,000
Wattage Range (W)	13 - 61
Efficacy Range (LPW)	126 - 162
Weight lbs (kg)	10 (4.5)

QUICK LINKS

FEATURES & SPECIFICATIONS

Construction

- Rugged die-cast aluminum housing.
- Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.
- Extended housing available with 1/2" threaded hubs for surface conduit and rated wire.
- Standard luminaire shipping weight: TBD lbs in carton.
- Max luminaire shipping weight: 12 lbs in carton (20 lbs w/EH option)

Optical System

- State-of-the-Art one piece silicone optic provides industry leading optical control while also acting as an integrated gasket reducing system complexity and improving fixture reliability.
- Proprietary silicone refractor optics provide exceptional coverage and uniformity in distribution types 2, 3, and FT.
- Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93%.
- Zero uplight.
- Available in 5000K, 4000K, and 3000K color temperatures per ANSI C78.377.
- Minimum CRI of 70

Electrical

- High-performance driver features over-voltage under-voltage, short-circuit, and over temperature protection.

- 0-10V dimming (10% - 100%) standard.
- Standard Universal Voltage (120-277 VAC) Input 50/60 Hz or optional High Voltage (347-480 VAC).
- L70 Calculated Life: >60k Hours
- Total harmonic distortion (THD): <20%
- Operating temperature: -40°C to +50°C (-40°F to +122°F).
- Power factor (PF): >.90
- Input power stays constant over life.
- Optional 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).
- High-efficacy LEDs mounted to metal-core circuit board to maximize heat dissipation
- Driver is fully encased in potting material for moisture resistance. Driver complies with FCC standards. Accessible driver and electrical components.
- Optional battery backup provides 90-minutes of constant power to the LED system, ensuring code compliance. A test switch/indicator button is installed on the housing for ease of maintenance. Standard battery rated for 0°C to 50°C with cold weather battery rated for -20°C to 50°C (40°C max for 8L). 120-277V Only.

Controls

- Optional integral passive infrared Bluetooth™ motion. Fixtures operate independently and can be commissioned via iOS or Android configuration app.
- Optional button photocell turns fixtures on and off based on ambient light levels for dusk to dawn lighting.

- LSI's AirLink Blue wireless control system options allow for fixture and motion sensor grouping while reducing energy and maintenance costs.

Installation

- Universal wall mounting plate mounts directly to vertical surface or 4" junction box (octagonal or square).
- Luminaire hinges to the top of the mounting plate and is secured via two flush mount screws that help to conceal the hardware and prevent over tightening during installation.

Warranty

- LSI luminaires carry a 5-year limited warranty. Refer to <https://www.lsicorp.com/resources/terms-conditions-warranty/> for more information.

Listings

- Listed to UL 1598 and UL 8750.
- Meets Buy American Act requirements.
- IDA compliant; with 3000K color temperature selection.
- Title 24 Compliant; see local ordinance for qualification information.
- Suitable for wet locations.
- IP65 rated luminaire per IEC 60598-1.
- IK08 rated luminaire per IEC 60662 mechanical impact code.
- DesignLights Consortium® (DLC) Premium qualified product. Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

Mirada Small Wall Sconce Silicone (XWS SIL)

Type : _____

 **Have questions?** Call us at (800) 436-7800

ORDERING GUIDE

TYPICAL ORDER EXAMPLE: XWS LED 6L SIL FT UNV DIM 40 70CRI ALBCS1 BLK CWBB						
Prefix	Light Source	Lumen Package	Lens	Distribution	Voltage	Driver
XWS - Mirada Small Wall Sconce	LED	2L - 2,000 3L - 3,000 5L - 5,000 6L - 6,000 8L - 8,000 Custom Lumen Packages ¹	SIL - Silicone	2 - Type 2 3 - Type 3 FT - Forward Throw	UNV - Universal Voltage (120-277V) HV - High Voltage (347-480V)	DIM - 0-10v Dimming (0-10%)
Color Temperature	Color Rendering	Controls			Finish	Options
50 - 5000K 40 - 4000K 30 - 3000K	70CRI - 70 CRI	Blank - None Wireless Controls ALBCS1 - AirLink Blue Wireless Motion & Photo Sensor Controller (8-24' mounting height) ² Standalone Controls EXT - 0-10v Dimming leads extended to housing exterior IMSBT1L - Integral Bluetooth™ Motion Sensor 8-24' MH ^{2,3} Button Type Photocells PCI120 - 120V PCI208-277 - 208 -277V PCI347 - 347V			BLK - Black BRZ - Dark Bronze GMG - Gun Metal Gray GPT - Graphite MSV - Metallic Silver PLP - Platinum Plus SVG - Satin Verde Green WHT - White	Blank - None BB - 10w Battery Back-up (0°C) ⁴ CWBB - 10w Cold Weather Battery Backup (-20°C) ⁴ BB20 - 20W Battery Back-up (0°C) ⁴ EH - Extended Housing ⁵ SP1 - 10kV Surge Protection Device



Need more information?
[Click here for our glossary](#)

Have additional questions?
Call us at (800) 436-7800



ACCESSORY ORDERING INFORMATION*

Part Number	Description
758274CLR	XWS Extended Housing/Surface Conduit Wiring Box
760159CLR	XWS Spacer Plate/Wiring Box

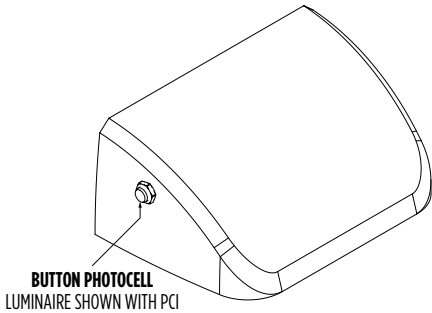
*Accessories are shipped separately and field installed.

Battery Backup

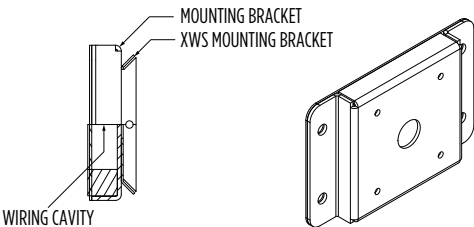
- Emergency battery system provides 90-minutes of constant power to the LED system, ensuring code compliance.
- A test switch/indicator button is installed on the housing for ease of maintenance.
- 10w battery delivers ~1,500 lumens during emergency mode.
- 20w battery delivers ~3,000 lumens during emergency mode.



Luminaire shown with sensor & battery backup



BUTTON PHOTOCELL
LUMINAIRE SHOWN WITH PCI



WIRING CAVITY

MOUNTING BRACKET
XWS MOUNTING BRACKET

1 Custom lumen and wattage packages available, consult factory. Values are within industry standard tolerances but not DLC listed.
2 When high voltage (HV) is specified, IMSBT and ALBCS control options are limited to 6L and 8L lumen packages.
3 IMSBTxL is field configurable via the LSI app that can be downloaded from your smartphone's native app store.
4 Universal Voltage Only (120-277V). 20W Battery Backup only available 2L - 6L.
5 For applications with surface conduit.

Mirada Small Wall Sconce Silicone (XWS SIL)

Type : _____

 Have questions? Call us at (800) 436-7800

PERFORMANCE

Delivered Lumens ¹												
Lumen Package	Distribution	CRI	3000K CCT			4000K CCT			5000K CCT			Wattage
			Delivered Lumens	Efficacy	Bug Rating	Delivered Lumens	Efficacy	Bug Rating	Delivered Lumens	Efficacy	Bug Rating	
2L	2	70	1,851	142	B1-U0-G1	1,974	152	B1-U0-G1	1,976	152	B1-U0-G1	13
	3		1,930	148	B1-U0-G1	2,058	158	B1-U0-G1	2,060	158	B1-U0-G1	
	FT		1,889	145	B1-U0-G1	2,015	155	B1-U0-G1	2,017	155	B1-U0-G1	
3L	2	70	2,765	146	B1-U0-G1	2,950	155	B1-U0-G1	2,953	155	B1-U0-G1	19
	3		2,884	152	B1-U0-G1	3,077	162	B1-U0-G1	3,079	162	B1-U0-G1	
	FT		2,822	149	B1-U0-G1	3,010	158	B1-U0-G1	3,012	159	B1-U0-G1	
5L	2	70	4,655	133	B2-U0-G1	4,965	142	B2-U0-G1	4,970	142	B2-U0-G1	35
	3		4,855	139	B1-U0-G1	5,179	148	B1-U0-G1	5,184	148	B1-U0-G1	
	FT		4,750	136	B1-U0-G2	5,067	145	B1-U0-G2	5,072	145	B1-U0-G2	
6L	2	70	5,578	130	B2-U0-G1	5,950	138	B2-U0-G2	5,956	139	B2-U0-G2	43
	3		5,819	135	B1-U0-G2	6,207	144	B1-U0-G2	6,214	145	B1-U0-G2	
	FT		5,693	132	B1-U0-G2	6,073	141	B1-U0-G2	6,079	141	B1-U0-G2	
8L	2	70	7,531	123	B2-U0-G2	8,034	132	B2-U0-G2	8,041	132	B2-U0-G2	61
	3		7,856	129	B2-U0-G2	8,380	137	B2-U0-G2	8,388	138	B2-U0-G2	
	FT		7,687	126	B2-U0-G2	8,199	134	B2-U0-G2	8,207	135	B2-U0-G2	

Electrical Data - Current Draw AMPS ²						
Lumen Package	120V	208V	240V	277V	347V	480V
2L	0.11	0.06	0.05	0.05	0.04	0.03
3L	0.16	0.09	0.08	0.07	0.05	0.04
5L	0.29	0.17	0.15	0.13	0.10	0.07
6L	0.36	0.21	0.18	0.16	0.12	0.09
8L	0.51	0.29	0.25	0.22	0.18	0.13

Recommended Lumen Maintenance - XWS ³					
Ambient Temperature C°	Initial ⁴	25K hrs. ⁴	50K hrs. ⁴	75K hrs. ⁵	100K hrs. ⁵
25	100%	95%	90%	85%	80%
40	100%	91%	82%	73%	65%

1 LEDs are frequently updated therefore values are nominal
2 Electrical data at 25C (77F). Actual wattage may differ by +/-10%.
3 Lumen maintenance values at 25°C are calculated per TM-21 based on LM-80 data and in-situ luminaire testing.
4 In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip).
5 In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times NA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip).

Mirada Small Wall Sconce Silicone (XWS SIL)

Type : _____

 Have questions? Call us at (800) 436-7800

PHOTOMETRICS

Luminaire photometry has been conducted by a NVLAP accredited testing laboratory in accordance with IESNA LM-79-08. As specified by IESNA LM-79-08 the entire luminaire is tested as the source resulting in a luminaire efficiency of 100%.

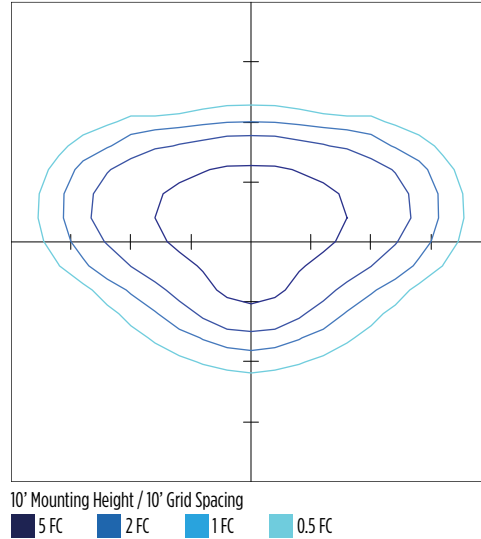
See the individual product page on <https://www.lsicorp.com/> for detailed photometric data.

XWS-LED-6L-SIL-2-40-70CRI

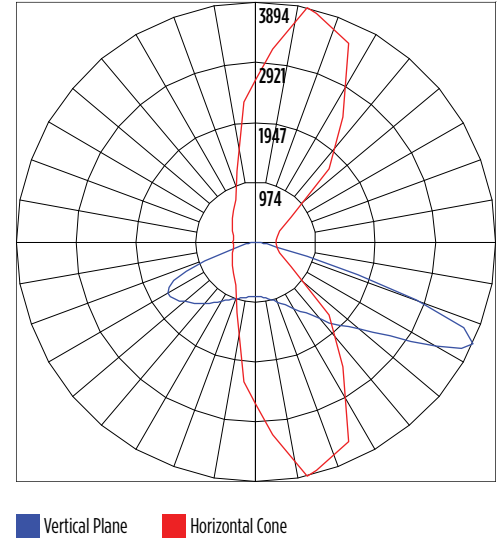
Luminaire Data	
Type 2 Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	5,951
Watts	42.5
Efficacy	138
IES Type	Type II - Short
BUG Rating	B1-U0-G1

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
Low (0-30°)	834	20%
Medium (30-60°)	3,379	50%
High (60-80°)	1,647	28%
Very High (80-90°)	91	1%
Uplight (90-180°)	0	0%
Total Flux	5,951	100%

ISO Footcandle



Polar Curve

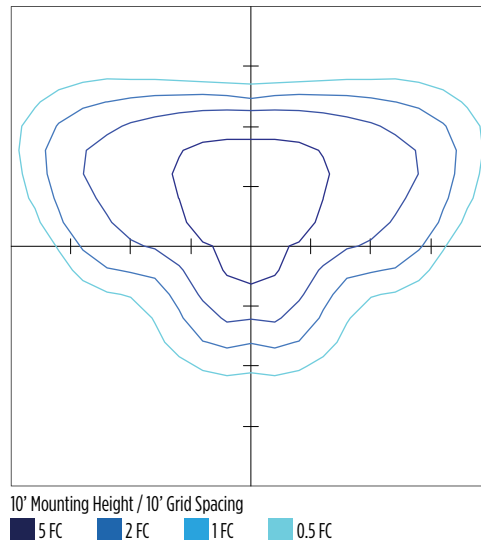


XWS-LED-6L-SIL-3-40-70CRI

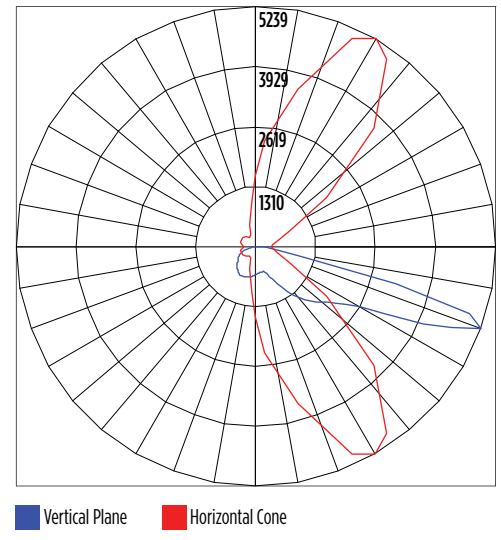
Luminaire Data	
Type 3 Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	6,208
Watts	42.5
Efficacy	146
IES Type	Type III - Medium
BUG Rating	B1-U0-G2

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
Low (0-30°)	582	9%
Medium (30-60°)	2,997	48%
High (60-80°)	2,506	40%
Very High (80-90°)	124	2%
Uplight (90-180°)	0	0%
Total Flux	6,208	100%

ISO Footcandle



Polar Curve



Mirada Small Wall Sconce Silicone (XWS SIL)

Type : _____

 Have questions? Call us at (800) 436-7800

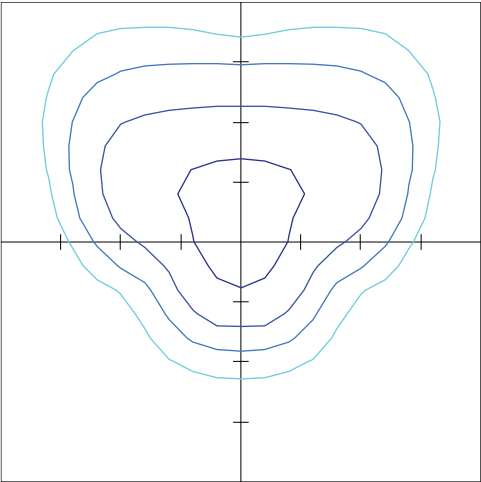
PHOTOMETRICS

XWS-LED-6L-SIL-FT-40-70CRI

Luminaire Data	
Type FT Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	6,073
Watts	42.5
Efficacy	143
IES Type	Type IV - Short
BUG Rating	B1-U0-G2

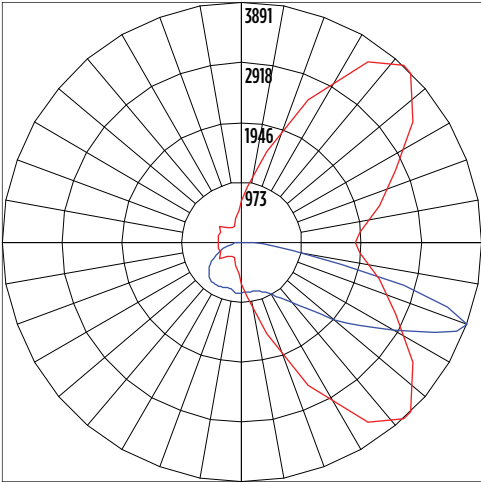
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
Low (0-30°)	708.3	12%
Medium (30-60°)	2,715.5	45%
High (60-80°)	2,475.4	41%
Very High (80-90°)	173.6	3%
Uplight (90-180°)	0	0%
Total Flux	6,073	100%

ISO Footcandle



10' Mounting Height / 10' Grid Spacing
5 FC 2 FC 1 FC 0.5 FC

Polar Curve



Vertical Plane Horizontal Cone

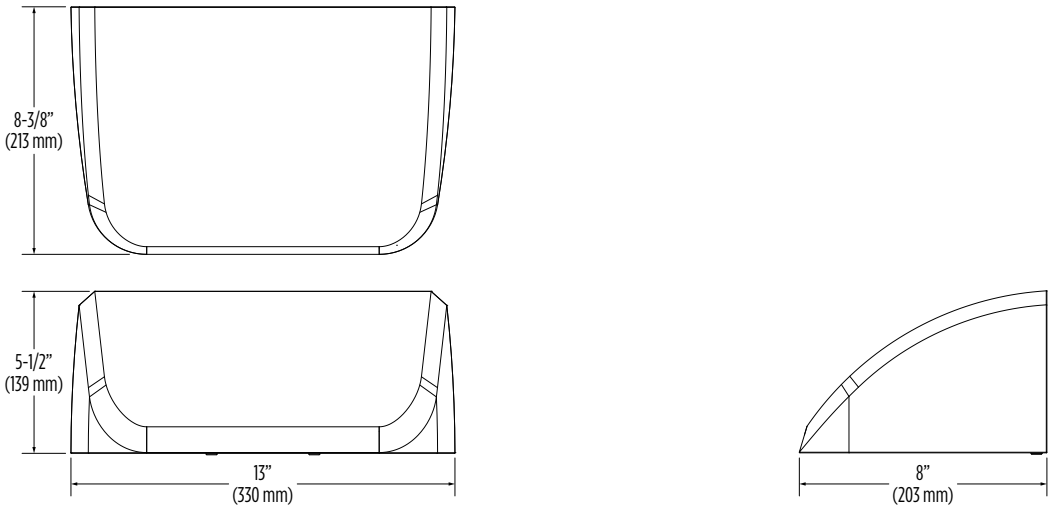
Mirada Small Wall Sconce Silicone (XWS SIL)

Type : _____

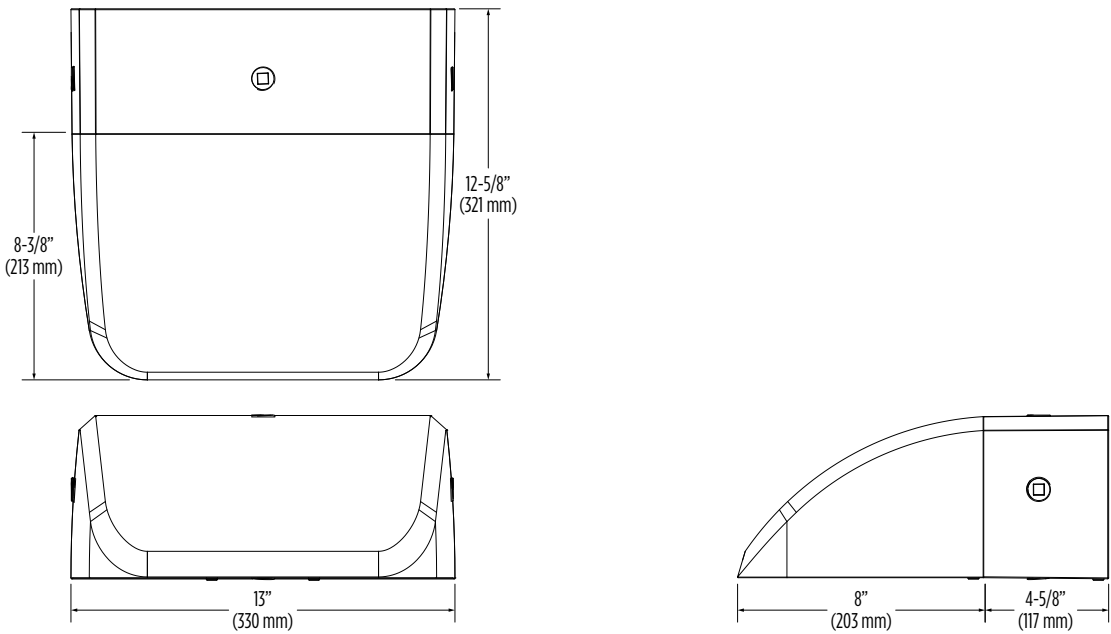
 Have questions? Call us at (800) 436-7800

PRODUCT DIMENSIONS

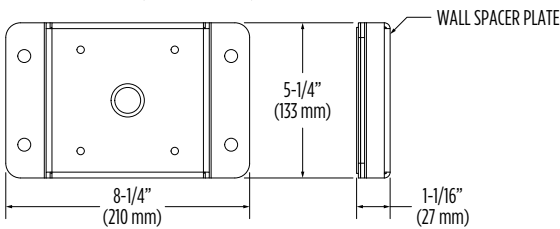
STANDARD HOUSING (XWS)



SCWB EXTENDED HOUSING (XWS 758274CLR)



XWS SPACER PLATE/WIRING BOX (XWS 760159CLR)



NOTE: Wall spacer plate allows the luminaire to float off the wall and provides space for securing wires (8.25" X 5.25" X 1.07").

CONTROLS

Integral Bluetooth™ Motion and Photocell Sensor (IMSBTxL)

Slim low profile sensor provides multi-level control based on motion and/or daylight. Sensor controls 0-10 VDC LED drivers and is IP66 rated for cold and wet locations (-40°F to 167°F). Two unique PIR lenses are available and used based on fixture mounting height. All control parameters are adjustable via an iOS or Android App capable of storing and transmitting sensor profiles.

[Click here to learn more details about IMSBT](#)



LEVITON App



Apple



Android

AirLink Blue (ALBCSx)

Wireless Bluetooth Mesh Outdoor Lighting Control System that provides energy savings, code compliance and enhanced safety/security for parking lots and parking garages. Three key components; Bluetooth wireless radio/sensor controller, Time Keeper and an iOS App. Capable of grouping multiple fixtures and sensors as well as scheduling time-based events by zone. Radio/Sensor Controller is factory integrated into Area/ Site, Wall Mounted, Parking Garage and Canopy luminaires.

[Click here to learn more details about AirLink Blue](#)



AirLink Blue App



Apple

Sensor Sequence of Operations

Standard Programming	On Event	Off Event	On Light Level	Dim Light Level	Daylight Harvesting	Delay To Off	Sensitivity
IMSBTxL	Motion	No Motion	100%	N/A	On; Auto Calibration	20 minutes	High

Operation	Description
On Event	Trigger that activates lights to turn on; either automatic via motion detected or manually activated via push of button.
Off Event	Trigger that activates lights to turn off; either automatic via no motion detected or manually activated via push of button.
On Light Level	The light level that the fixtures will turn on to when ON EVENT occurs.
Dim Light Level	The light level that the fixtures will dim down to when no motion is detected.
Delay to Dim	The amount of time after which no motion is detected that the fixtures will be triggered to dim down. This sequence is optional, and sensor can be programmed to only trigger the fixture to turn off by entering 100% in this field.
Delay to Off	The amount of time after which no motion is detected that the fixtures will be triggered to turn off. If delay to dim is part of the programmed functionality, this is the amount of time after which no motion is detected after the fixture have already dimmed down.
Sensitivity	The sensitivity can be set to high, medium, low, or auto where applicable. High will detect smaller, simple motions. Low will only detect larger more complex motions. Auto temperature calibration adjusts the PIR sensitivity as ambient temperature rises to increase detection of heat movement through the field of view.