



City of Fitchburg
 Planning/Zoning Department
 5520 Lacy Road
 Fitchburg, WI 53711
 (608-270-4200)

ARCHITECTURAL & DESIGN REVIEW APPLICATION

Applicant/Contact Person: Town and Country Engineering Inc./ William Simpson (WA Simpson Architecture LLC)

Address: 2912 Marketplace Drive, Suite 103 **Phone Number of Contact Person:** 608-339-1815

City, State, Zip Code: Madison, WI 53719 **Email of Contact Person:** simpsonarch@gmail.com

Project Address: 6264 Nesbitt Road **Lot:** #8 **Subdivision:** _____

Project Type: _____ **Multi-Family** **Commercial** _____ **Industrial** _____ **Other**

New _____ **Addition**

(Secondary Storage Building)

Impervious Surface Ratio (ISR): 38.98% (City Standard: maximum 65% ISR)

All items listed below must be included with the application to be considered complete. If an item is not included with the application, the applicant must provide in writing the basis for not including it. Building and site plans submitted to the Fitchburg Plan Commission for architectural and design review shall contain the following information:

Site Data:

- 1. Lot or property dimensions.
- 2. Orientation (to north).
- 3. Adjacent highways, roads, drive, etc.
- 4. Existing natural features (rivers, ponds, wetlands).
- 5. Existing buildings and/or improvements.
- 6. Existing and proposed site drainage.
- 7. Utility plans, including main/lateral sizes and existing fire hydrants on site or within 300 feet of the site
- 8. ISR shall be indicated on all plans.
- 9. Stormwater management plans and details, including grading plan. - Existing shown- No new stormwater management required.
- 10. Lighting plan in footcandles and light fixture cut sheets.

Building:

- 1. Building size, configuration and orientation.
- 2. Distance from lot lines.
- 3. Distance from other buildings, improvements and natural features.
- N/A 4. Location of well, septic tank, drainfield, etc. (if applicable)
- 5. Additional proposed additions or new structures, including trash/recycling enclosure(s).
- 6. Construction type (wood frame, structural steel, etc.).
- 7. Foundation type (full basement, slab on grade, etc.).
- 8. Number of levels.
- 9. Siding/exterior covering type, color, texture, etc.
- 10. Roof type (gable, hip, shed, flat, etc.) and pitch.
- 11. Roofing material type, color, texture, etc.
- 12. Exterior door and window location, size, type, etc.
- 13. Fire protection sprinklers or fire alarm systems.

Ingress, Egress, Parking:

- 1. Location of highway and road access points.
- 2. Location, size, configuration of drivers and walks.
- 3. Number, size, location of parking spaces.
- 4. Location of handicapped parking and accessible building entrances.
- 5. Bicycle rack(s).


Landscaping:

- 1. Location, species, size of existing trees, shrubs, and plantings.
- 2. Location, species, size of proposed plantings.
- 3. Location and size of all paved, seeded/sodded and gravelled areas.
- 4. Location of all retaining walls, fences, berms and other landscape features.

***It is highly recommended that an applicant hold at least one neighborhood meeting prior to submitting an ADR application to identify any concerns or issues of surrounding residents.**

The preceding information is considered to be the minimum information for submission, and the City may require additional information for its review. Any interpretations provided by city officials as the result of submitting the attached information are based on the submitted plans, and any plan changes, may affect the interpretations.

It is the responsibility of the owner/applicant to insure compliance with all local and state requirements. The below signed applicant acknowledges the above information and hereby submits the attached information for the City's Architectural and Design Review Process.

Signed:  Date: 11/13/2020
Applicant or Authorized Agent

***** Application shall be accompanied by one (1) sets of full-size plans, two (2) sets no larger than 11"x17", and one (1) pdf document of the complete submittal to planning@fitchburgwi.gov. Applications are due at least 4 weeks prior to the desired Plan Commission Meeting. The time frame assumes a complete set of plans is provided, and if it is not provided the Plan Commission date will be adjusted.**

FOR CITY USE ONLY

Date Received: 11/13/20 Plan Commission Date: 12/15/20

Comments:



W.A. Simpson Architecture, LLC

13 November, 2020

Lisa McNabola, Associate Planner
City of Fitchburg
5520 Lacy Road
Fitchburg, WI 53711

Re: **Architectural and Design Review (Project No: 20-05)**
6264 Nesbitt Road
Fitchburg, WI 53719

Dear Lisa:

Per our previous discussions and in response to your email on November 6th, we are providing this summary letter to go along with our Architectural and Design Review Application. Town and Country Engineering Inc. will be purchasing this property and is requesting to add an accessory storage building (24'x36'), add to their existing patio and to connect a sidewalk to the new storage building.

The existing office building, new storage building and site will be used for professional services by a civil engineering consulting company. Work hours will generally be 7:00 a.m. to 5:00 p.m., Monday through Friday, though extended hours and weekend work is not uncommon.

Approximately 20 to 40 individuals will work at the site, along with client meetings which could number between 2 and 10 people.

The new storage building will be used to store archived files, survey equipment, and engineering measuring equipment. This building will also act as a trash/ recycling enclosure. The overhead door is primarily to facilitate loading and unloading of equipment and supplies on roughly a weekly basis.

The new storage building will match the materials look and colors of the existing office building. I have included the existing office building exterior elevations as a part of this package to compare. The existing office building siding and trim is a pressed wood product. The new storage building will match the material look and color, but will be a more durable cementitious product. The roof pitch will match and will match the single pitch look, with the same metal roof style and color. Attached are a couple of pictures of the existing building that will be matched. There has been some discussion of the use of stone on the new storage building. The owners and the architect would like to keep the stone at the entrance only to have a hierarchy at the entrance, and wish not to add more attention to the secondary accessory building. There has also been some discussion on the overhead door style. The owner would like to minimize the amount of glass from a visual and security stand point. Therefore we are proposing a raised panel decorative door, and not the flat panel door that was previously shown on the preliminary drawings.



Thank you for reviewing this package. Please feel free to call me at any time if you have any questions or concerns.

Sincerely,

Handwritten signature of William A. Simpson in black ink.

William A. Simpson, AIA
Principal Architect- WA Simpson Architecture, LLC
Phone: 608-339-1815

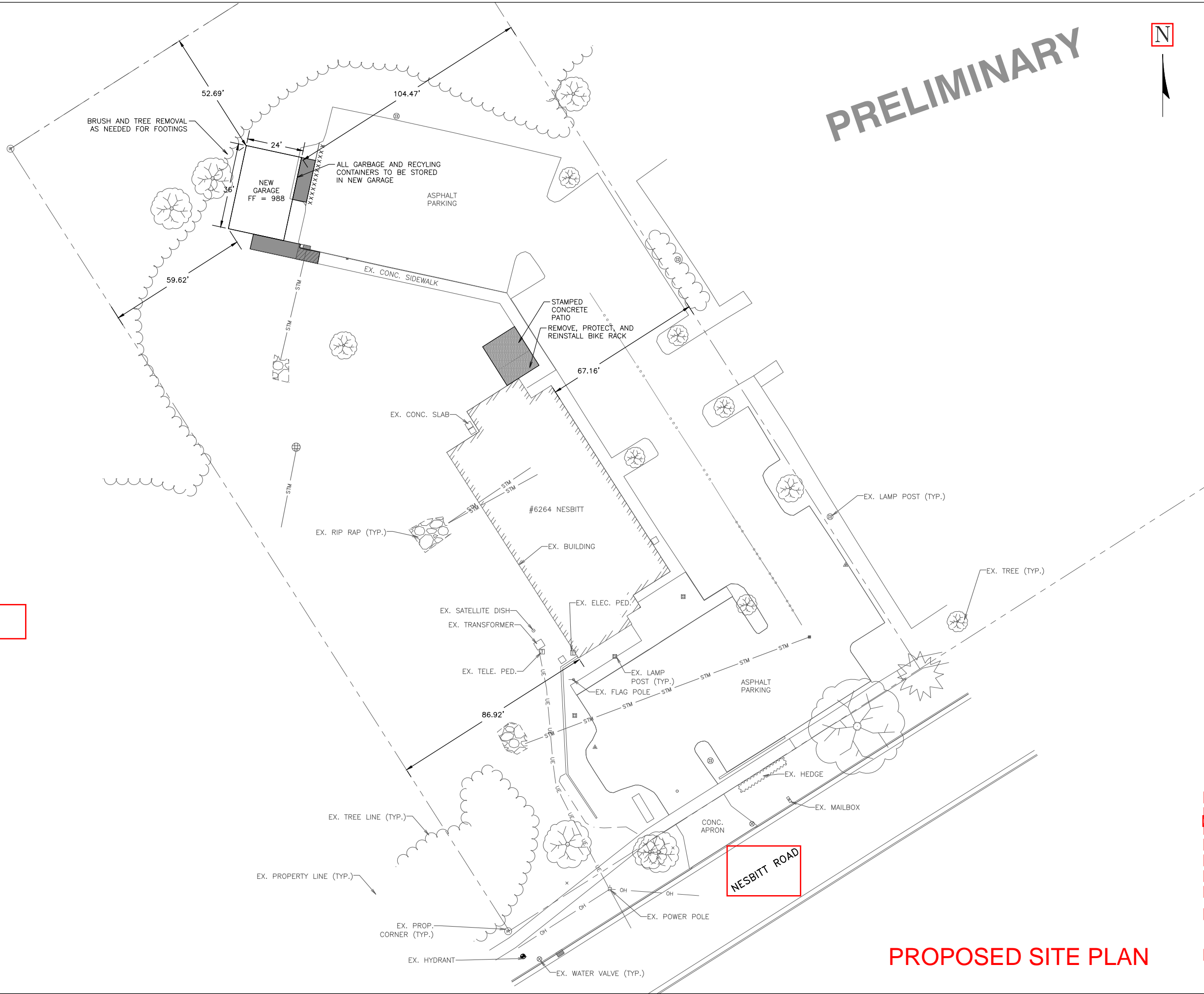
Cc: Ben Heidemann – Town & Country Engineering Inc.
Chris Porter – FCM Corporation

W.A. Simpson Architecture, LLC - W6784 Thiele Road - Arlington, WI 53911
Phone: 608-339-1815 - Email: simpsonarch@gmail.com

PRELIMINARY

N

Impervious Surface/Lot Ratio
Old Footprint = 37.55%
New Footprint = 38.98%



PROJECT NO.:	XX-##
DRAWING FILE:	##
DRAWN BY:	##
CHECKED BY:	##
DATE:	##-##-##
REVISIONS:	
SCALE:	
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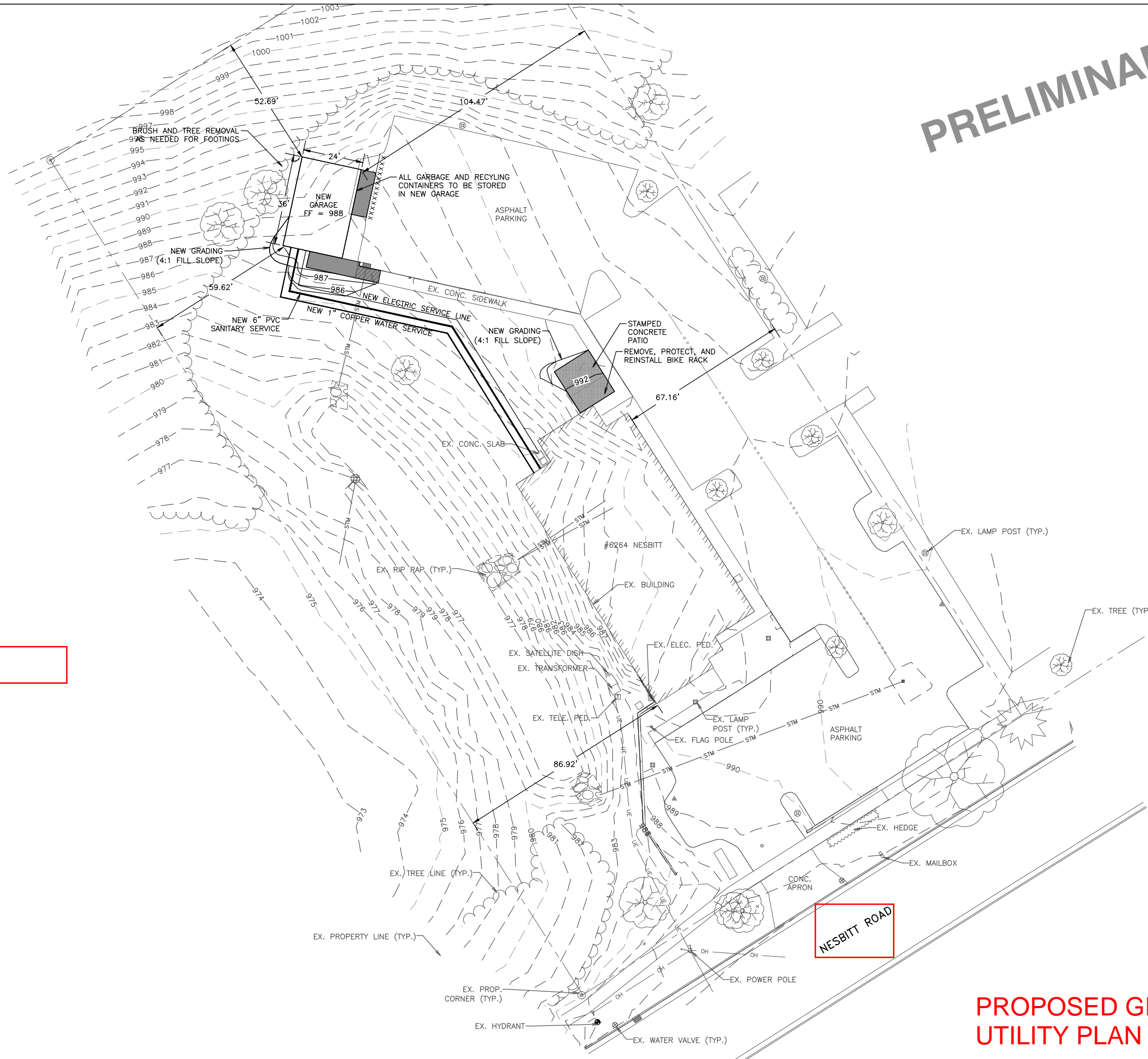
PROPOSED SITE PLAN

PRELIMINARY

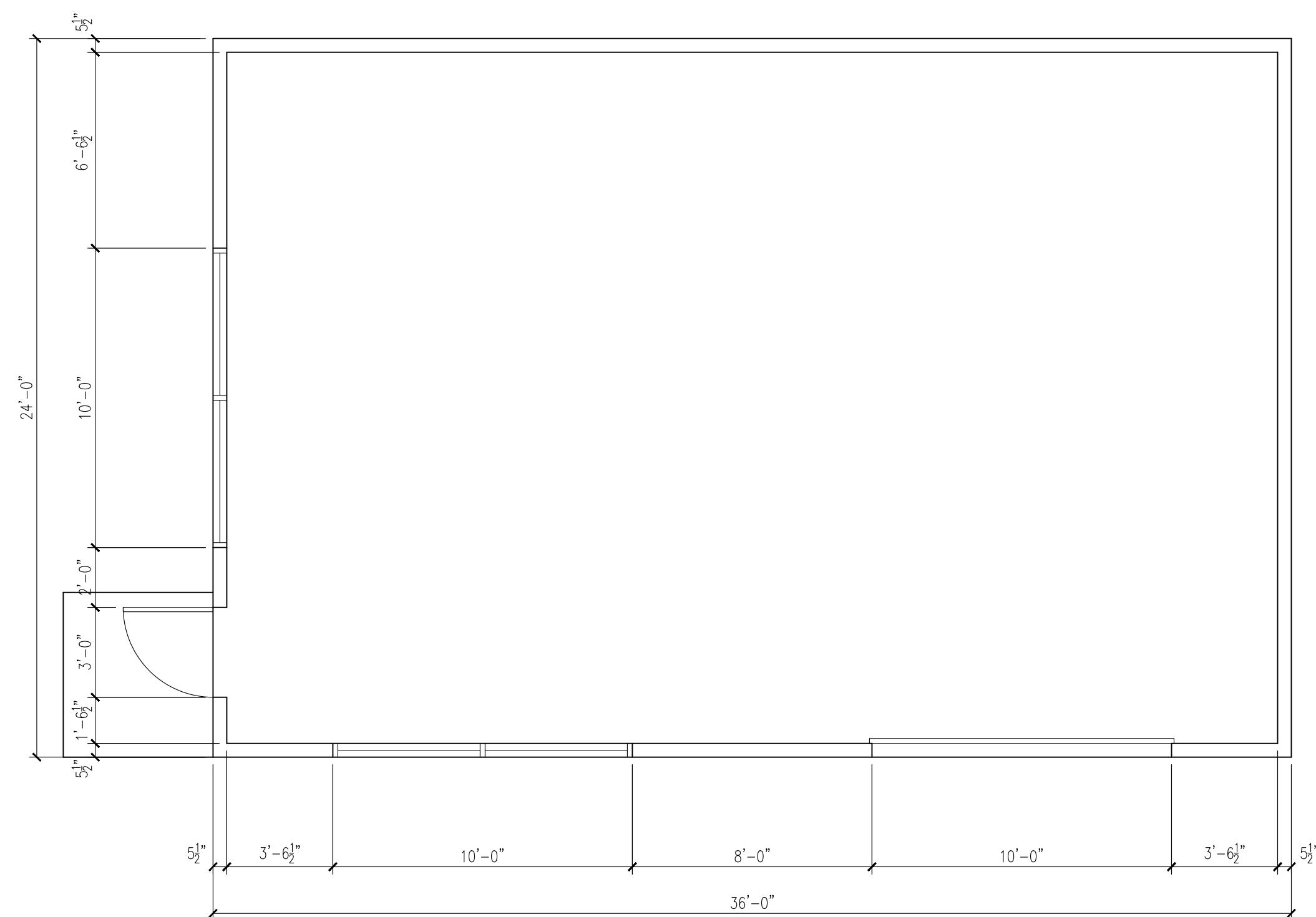


PROJECT NO.:	XX-##
DRAWING FILE:	
NESBITT SITE:	2.DWG
DRAWN BY:	XXX
CHECKED BY:	XXX
DATE:	11-13-20
REVISIONS:	
SCALE:	
0 15 10 20	

Impervious Surface/Lot Ratio	
Old Footprint = 37.55%	
New Footprint = 38.98%	



PROPOSED GRADING/ UTILITY PLAN



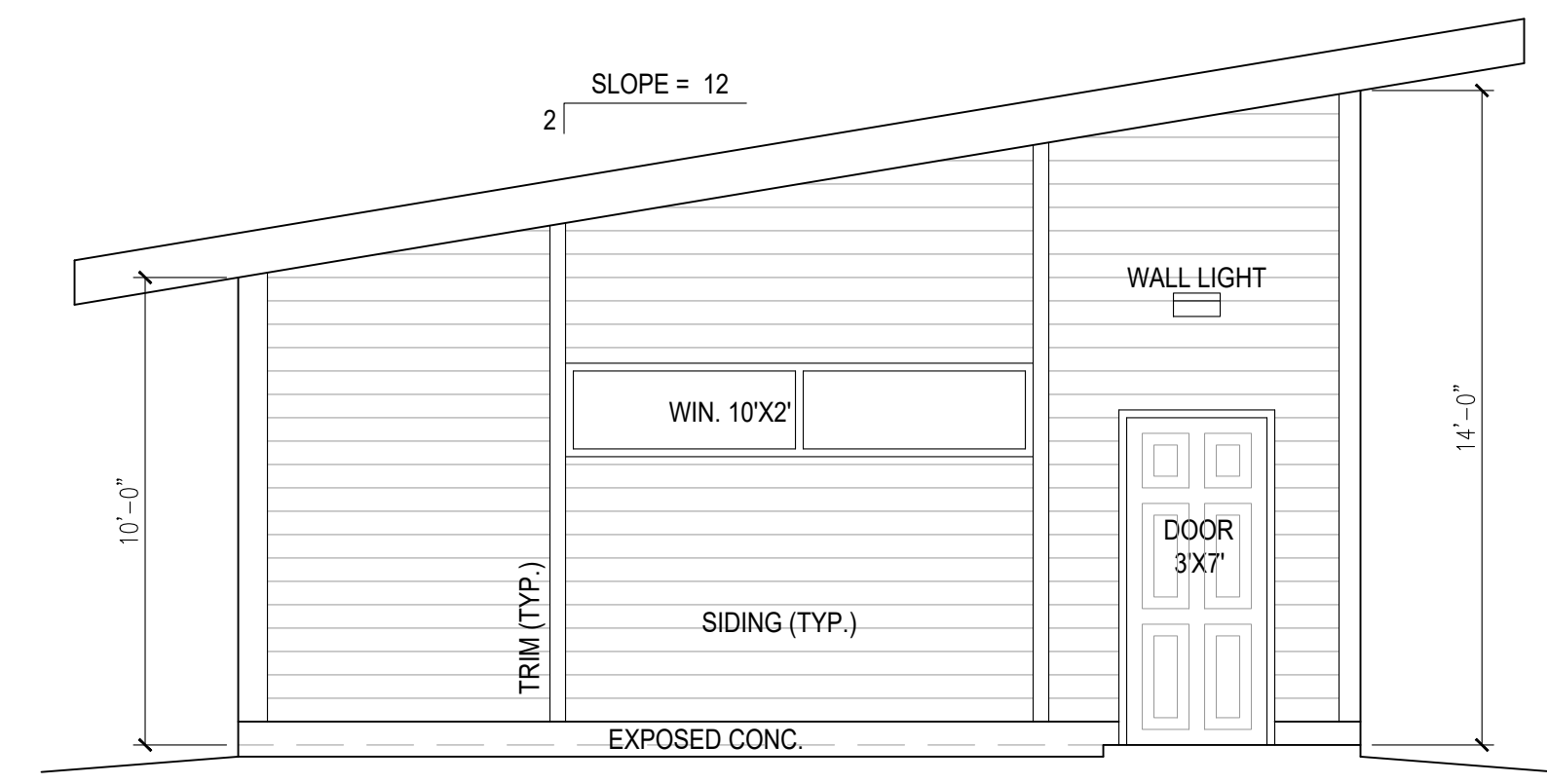
BUILDING NOTES:

- SLAB-ON-GRADE, NO BASEMENT (ONE STORY- 10' CEILING)
- WOOD FRAMED STRUCTURE (TYPE VB)
- USE = STORAGE (LOW HAZARDS)
- NO SPRINKLER/ FIRE ALARM SYSTEMS
- HEATED/ VENTILATED (INSULATION, PER COMCHECK)

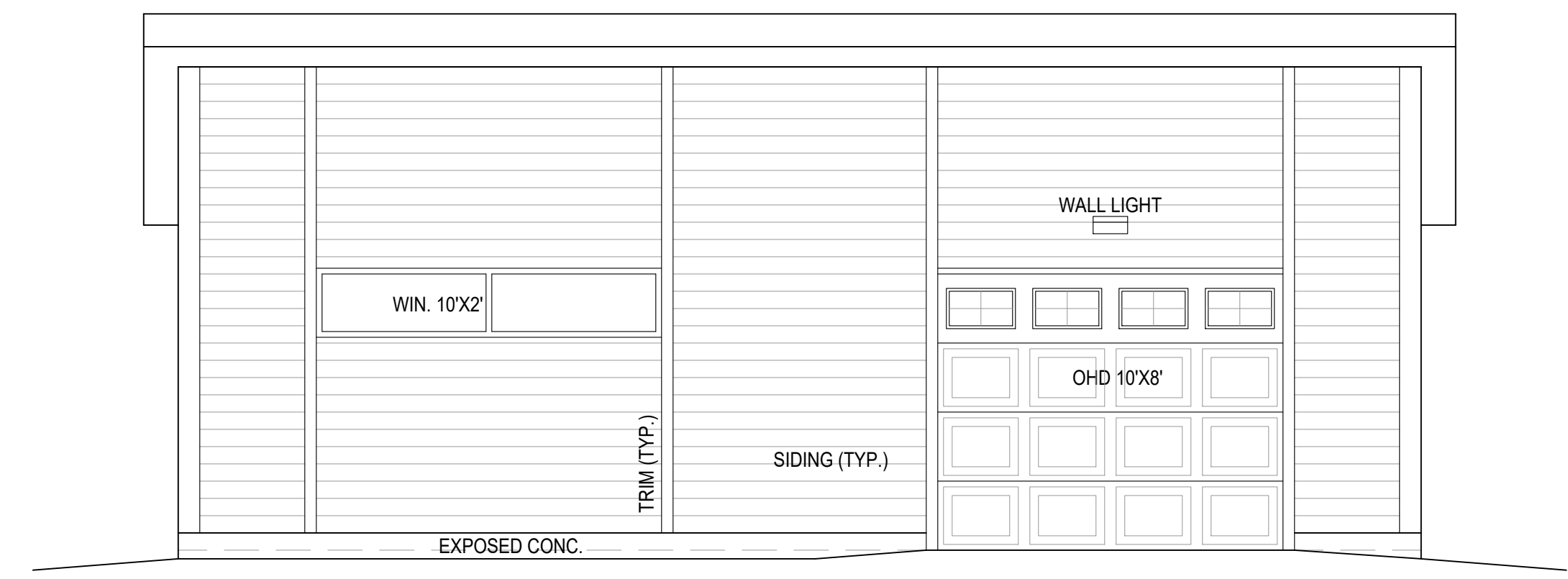
EXTERIOR FINISH NOTES:

- EXTERIOR SIDING, TRIM, FASCIA AND SOFFIT - TO MATCH EXISTING BUILDING'S PROFILE AND TEXTURE (MATERIAL WILL BE UPGRADED TO A CEMENTITIOUS PRODUCT FOR DURABILITY)
- ROOFING AND ROOF EDGE FLASHING - TO MATCH EXISTING BUILDING, AS A STANDING SEAM METAL ROOF (COLOR MCELROY- ASH GREAY- TO MATCH EXISTING)
- ALUMINUM WINDOWS - CLEAR ANODIZED - TO MATCH EXITING
- OVERHEAD DOOR - METAL WITH RAISED PANELS AND GLASS- COLOR TO MATCH SIDING

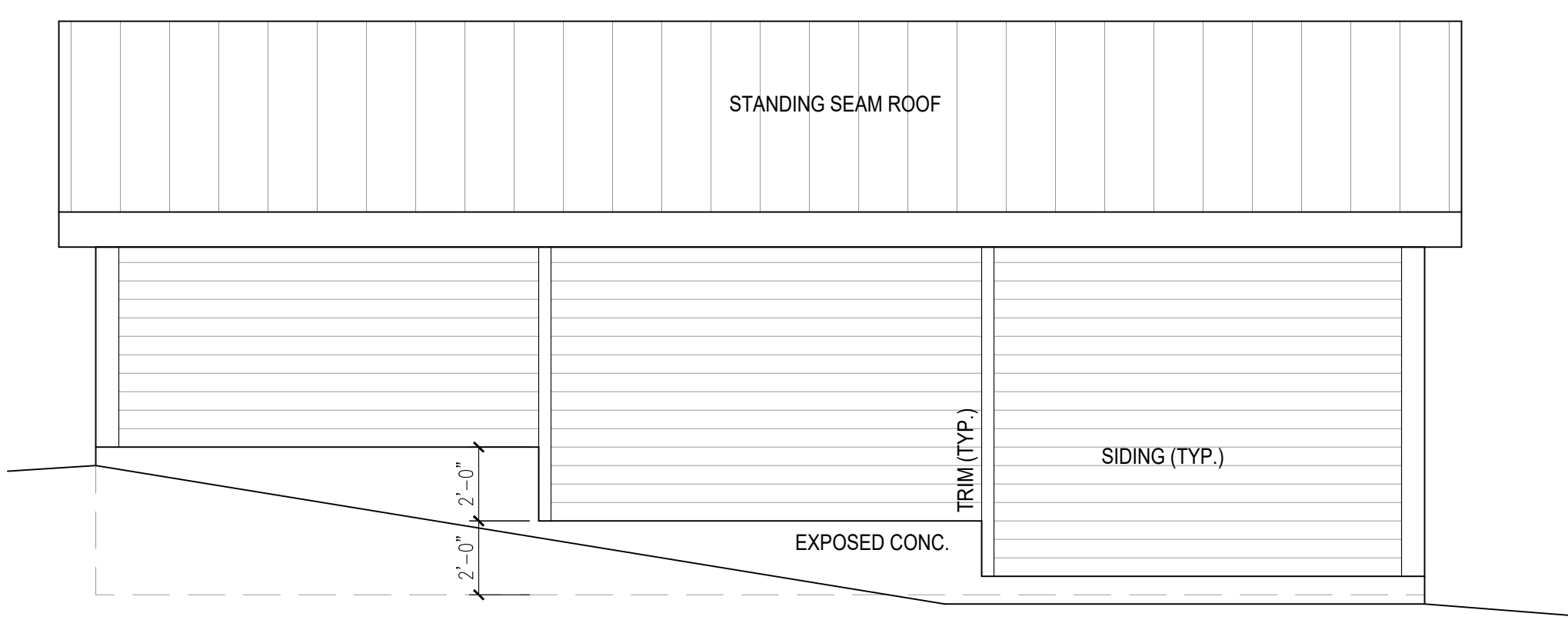
1 FIRST FLOOR PLAN - PROPOSED STORAGE BUILDING
Scale: 1/4" = 1' - 0"



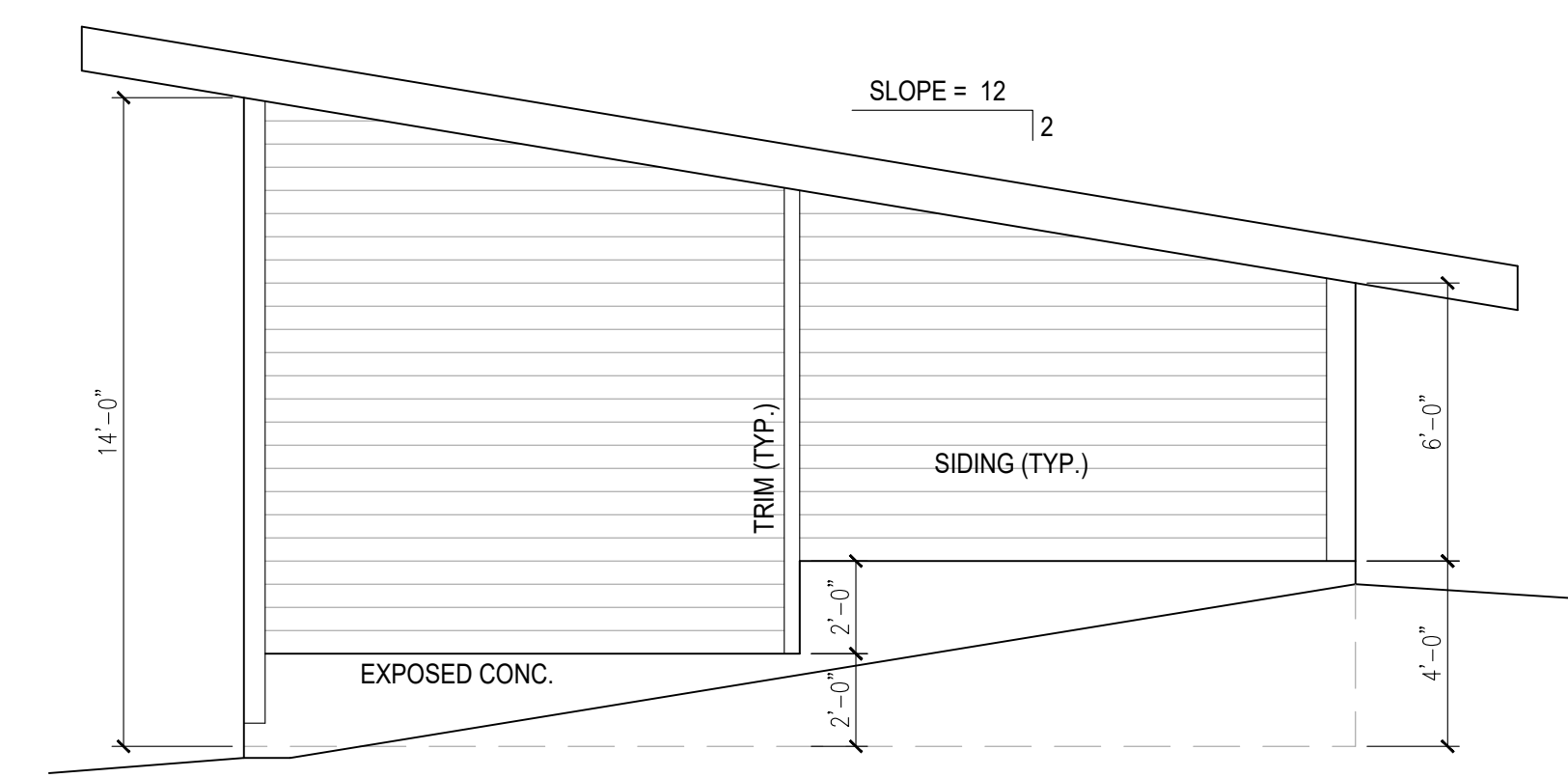
2 WEST ELEVATION- OPT #1
Scale: 1/4" = 1' - 0"



3 SOUTH ELEVATION- OPT #1
Scale: 1/4" = 1' - 0"



3 NORTH ELEVATION- OPT #1
Scale: 1/4" = 1' - 0"



4 EAST ELEVATION- OPT #1
Scale: 1/4" = 1' - 0"

ARCHITECT:

 W.A. Simpson Architecture, LLC
 W6784 Thiele Road
 Arlington, WI 53911
 Email: simpsonarch@gmail.com
 Phone: 608-339-1815

CONTRACTOR:

 FCM CORPORATION
 4906 Fernite Drive
 Madison, WI 53716
 Phone: 608-273-1069

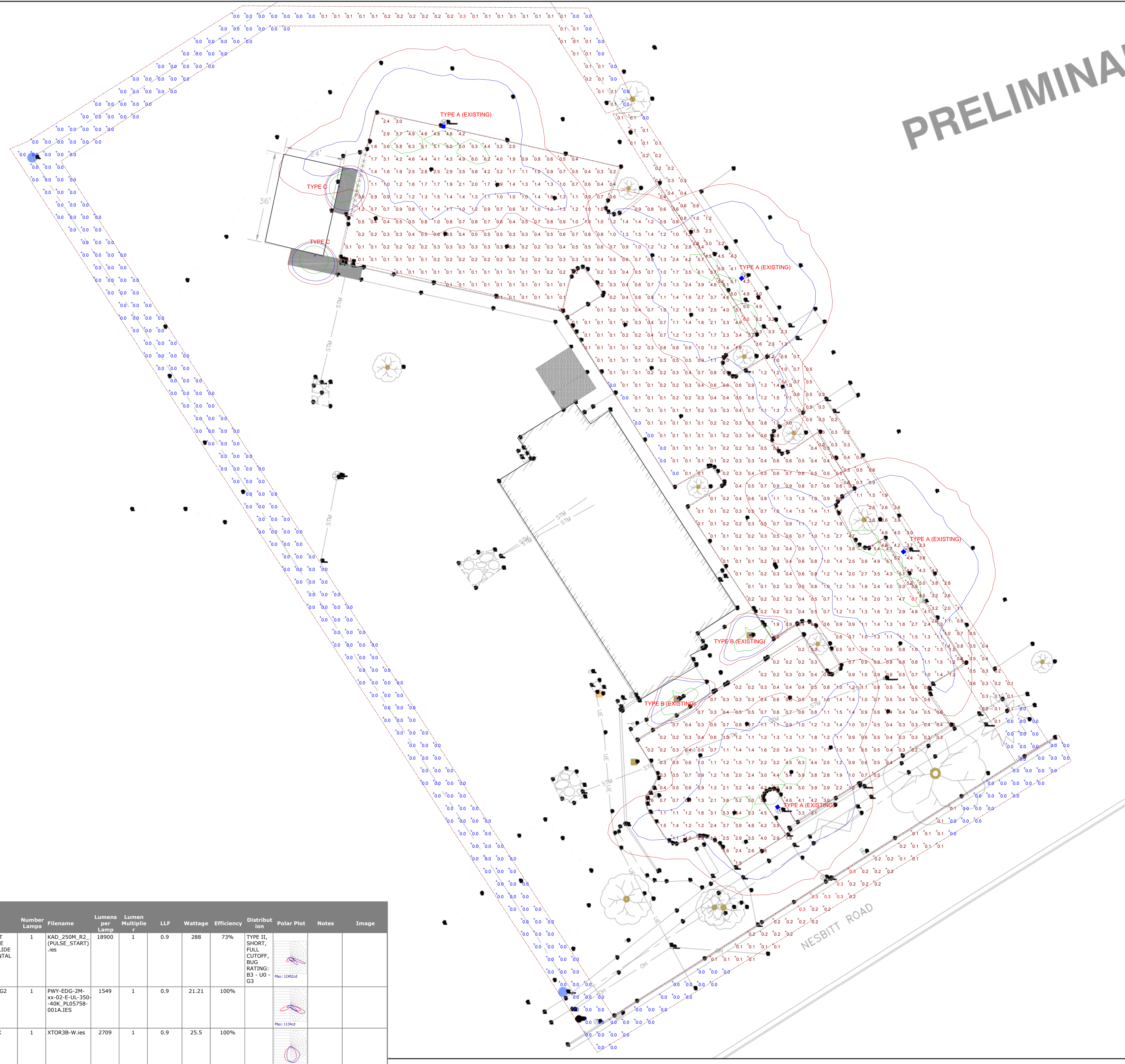
PROJECT:
6264 NESBITT ROAD
 FITCHBURG, WISCONSIN 53719

OWNER/ TENANT:
 TOWN & COUNTRY ENGINEERING INC.
 2912 Marketplace Drive, Suite 103
 Madison, WI 53719
 Phone: 608-273-3350

ISSUED FOR:

NO.	DESCRIPTION	DATE
1	ARCHITECTURAL REVIEW	13 NOV 2020

PRELIMINARY



Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Parking Lot	+	1.2 fc	6.7 fc	0.0 fc	N/A	N/A
Property Line	+	0.0 fc	0.3 fc	0.0 fc	N/A	N/A
Property Line (Shared Parking)	+	1.7 fc	6.0 fc	0.0 fc	N/A	N/A

Schedule																	
Symbol	Label	QTY	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens per Lamp	Lumen Multiplier	LLF	Wattage	Efficiency	Distribution	Polar Plot	Notes	Image
	A EXISTING	4	Lithonia Lighting	KAD 250M R2 (PULSE START)	Area Luminaire, 250W MH, R2 Reflector, Full Cutoff MEETS THE NIGHTTIME FRIENDLY CRITERIA	ONE (1) 250 WATT CLEAR BT28 PULSE START METAL HALIDE LAMP IN HORIZONTAL POSITION	1	KAD_250M_R2 (.PULSE_START).ies	18900	1	0.9	288	73%	TYPE II, SHORT, FULL CUTOFF, BUG RATING: B3 - U0 - G3			
	B	2	Cree Inc	PWY-EDG-2M-xx-02-E-UL-350-40K / BXBpx218E-UH7	Cree Edge Pathway Luminaire, Type II Medium, 18 LEDs, 120-277V, 350mA, 4000K	Eighteen type XP-G2 LEDs	1	PWY-EDG-2M-xx-02-E-UL-350-40K_PL05758-001A.IES	1549	1	0.9	21.21	100%				
	C EXISTING	2	COOPER LIGHTING SOLUTIONS - LUMARK (FORMERLY EATON)	XTOR3B-W	CROSSTOUR 26W WALL MOUNT LED	EATON LED 4000K	1	XTOR3B-W.ies	2709	1	0.9	25.5	100%				

Plan View
Scale - 1" = 20ft

FEATURES & SPECIFICATIONS

INTENDED USE – Ideal for parking areas, street lighting, walkways and car lots.

CONSTRUCTION – Rugged, die-cast, soft corner aluminum housing with 0.12" nominal wall thickness. Die-cast door frame has impact-resistant, tempered, glass lens that is fully gasketed with one-piece tubular silicone.

Finish: Standard finish is dark bronze (DDB) polyester powder finish, with other architectural colors available.
OPTICS – Anodized, aluminum reflectors: IES full cutoff distributions R2 (asymmetric), R3 (asymmetric), R4 (forward throw) and R55 (square) are interchangeable. High-performance anodized, segmented aluminum reflectors IES full cutoff distributions SR2 (asymmetric), SR3 (asymmetric) and SR4SC (forward throw, sharp cutoff). High-performance reflectors attach with tool-less fasteners and are rotatable and interchangeable.

ELECTRICAL – Ballast: High pressure sodium: 150W is high reactance, high power factor. Constant wattage autotransformer for 400W. Super CWA (pulse start ballast), is required for metal halide 400W (SCWA option). Ballast is 100% factory-tested.

Socket: Mogul base socket for 250M and above, and 70-400S, with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V.

LISTINGS – UL Listed (standard). CSA Certified (see Options). UL listed for 25°C ambient and wet locations. IP65 rated in accordance with standard IEC 529.

WARRANTY — 1-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.



Catalog Number	TYPE 'A' (EXISTING)
Notes	
Type	



Soft Square Lighting

KAD



Specifications

EPA: 1.2 ft.²

*Weight: 35.9 lbs (16.28 kg)

Length: 17-1/2" (44.5)

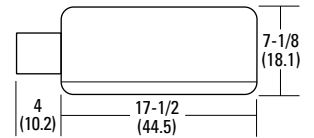
Width: 17-1/2" (44.5)

Depth: 7-1/8" (18.1)

All dimensions are inches (centimeters) unless otherwise specified.

*Weight as configured in example below.

METAL HALIDE: 400W
 HIGH PRESSURE SODIUM: 150-400W
 20" TO 35" MOUNTING



ORDERING INFORMATION For shortest lead times, configure product using **bolded options**.

Example: KAD 400M R3 TB SCWA SPD04 LPI

KAD		Distribution		Voltage	Ballast	Mounting ⁵		
KAD	Metal halide 400M¹	High pressure sodium² 150S 250S 400S	Standard reflectors R2 IES type II asymmetric ³ R3 IES type III asymmetric ³ R4 IES type IV forward throw ³ R55 IES type V square	High performance reflectors⁵ SR2 IES type II asymmetric ³ SR3 IES type III asymmetric ³ SR4SC IES type IV forward throw	120 208 240 277 347 480 TB⁴	(blank) Magnetic ballast Pulse Start SCWA Super CWA pulse-start ballast	Ships in fixture carton SPD ___ Square pole RPD ___ Round pole WBD ___ Wall bracket WWD ___ Wood or pole wall Ships separately^{6,7} DAD12P Degree arm (pole) DAD12WB Degree arm (wall) KMA Mast arm external fitter WBA Decorative wall bracket ⁸	Arm length 04 4" arm 06 6" arm 09 9" arm 12 12" arm

Options			Finish ¹¹			Lamp ¹²	
Shipped installed in fixture SF Single fuse (120, 277, 347V) ⁹ DF Double fuse (208, 240, 480V) ⁹ PER NEMA twist-lock receptacle only (no photocontrol)			CSA CSA Certified Shipped separately⁶ HS House side shield PE1 NEMA twist-lock PE (120, 208, 240V)	PE3 NEMA twist-lock PE (347V) PE4 NEMA twist-lock PE (480V) PE7 NEMA twist-lock PE (277V) SC Shorting cap for PER option VG Vandal guard ¹⁰ WG Wire guard ¹⁰	(blank) Dark bronze DWH White DBL Black DMB Medium bronze DNA Natural aluminum Super Durable Finishes DDBXD Dark bronze DBLXD Black	DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white	LPI Lamp included L/LP Less lamp

Accessories: Tenon Mounting Slipfitter (RPDXX required.) Order as separate catalog number. Must be used with pole mounting.							
Number of fixtures							
Tenon O.D.	One	Two@180°	Two@90°	Three@120°	Three@90°	Four@90°	
2-3/8"	T20-190	T20-280	T20-290 ¹³	T20-320 ¹³	T20-390 ¹³	T20-490 ¹³	
2-7/8"	T25-190	T25-280	T25-290 ¹³	T25-320	T25-390 ¹³	T25-490 ¹³	
4	T35-190	T35-280	T35-290 ¹³	T35-320	T35-390 ¹³	T35-490 ¹³	

Notes

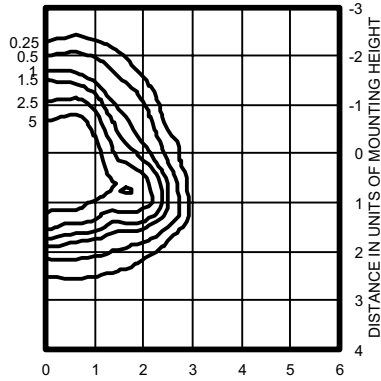
- Reduced jacket ED28 required for SR2, SR3 and SR4SC optics. SCWA required.
- Not available with SCWA. 250S is not available with 480V. 400S is not available with 347V.
- House-side shield available.
- Optional multi-tap ballast (120, 208, 240, 277V); in Canada: 120, 277, 347V).
- 9" or 12" arm is required when two or more luminaires are oriented on a 90° drilling pattern.
- May be ordered as an accessory.
- Must specify finish when ordered as an accessory.
- Only available with SPD04 and SPD09. Can be ordered as separate line item.
- Must specify voltage. N/A with TB.
- Prefix with KAD when ordered as an accessory.
- See www.lithonia.com/archcolors for additional color options.
- Must be specified. L/LP not available with MHC.
- Must use RPD09 or RPD12.

KAD Metal Halide, Arm-mounted Soft Square Cutoff

Coefficient of Utilization _____
 Initial Footcandles _____

KAD 400M R2 Test no. 1193083101P

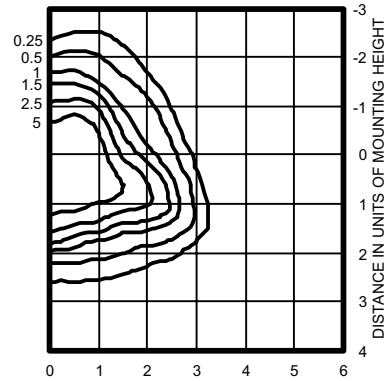
ISOILLUMINANCE PLOT (Footcandle)



400W pulse start metal halide lamp, rated 38000 lumens. Footcandle values based on 20' mounting height.
 Classification: Type II, Short, Full Cutoff

KAD 400M R3 Test no. 1192040902P

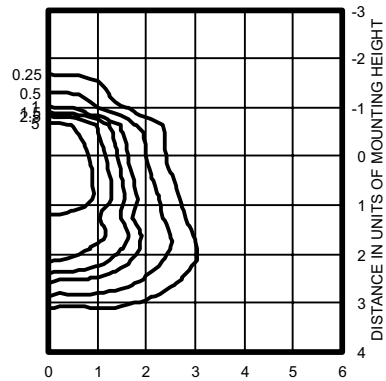
ISOILLUMINANCE PLOT (Footcandle)



400W pulse start metal halide lamp, rated 38,000 lumens. Footcandle values based on 20' mounting height.
 Classification: Type II, Short, Full Cutoff

KAD 400M R4 Test no. 1191110101P

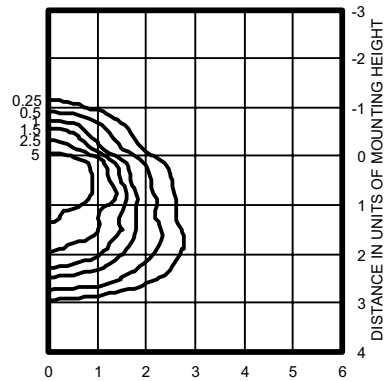
ISOILLUMINANCE PLOT (Footcandle)



400W pulse start metal halide lamp, rated 38,000 lumens. Footcandle values based on 20' mounting height.
 Classification: Unclassified (Type III, Very Short), Full Cutoff

KAD 400M R4HS Test no. 1192061101P

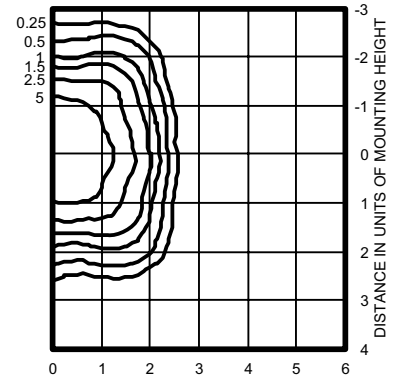
ISOILLUMINANCE PLOT (Footcandle)



400W pulse start metal halide lamp, rated 38,000 lumens. Footcandle values based on 20' mounting height.
 Classification: Unclassified (Type III, Very Short), Full

KAD 400M R5S Test no. 1194040801P

ISOILLUMINANCE PLOT (Footcandle)



400W pulse start metal halide lamp, rated 38000 lumens. Footcandle values based on 20' mounting height.
 Classification: Unclassified (Type NC, Very Short), Full Cutoff

Notes

- 1 Photometric data for other distributions can be accessed at www.lithonia.com.
- 2 Tested to current IES and NEMA standards under stabilized laboratory conditions. Various operating factors can cause differences between laboratory data and actual field measurements. Dimensions and specifications on this sheet are based on the most current available data and are subject to change without notice.
- 3 For electrical characteristics, consult outdoor technical data specification sheets on www.lithonia.com.

Mounting Height Correction Factor

(Multiply the fc level by the correction factor)

25 ft. = 0.64

35 ft. = 0.32

40 ft. = 0.25

$$\left(\frac{\text{Existing Mounting Height}}{\text{New Mounting Height}} \right)^2 = \text{Correction Factor}$$

THE EDGE® Series TYPE 'B' (EXISTING)

LED Pathway Luminaire

Rev. Date: V7 02/17/2020

Product Description

Durable die-cast aluminum luminaire housing mounts directly to 4" (102mm) diameter pole (included) without visible mounting hardware for clean appearance. Pole mounts to rugged die cast aluminum internal flange secured by three 3/8" - 16x6" anchor bolts with 1-1/4" hook (provided). **Note:** T45 Torx 3/8" socket required for head installation. Top mounted LEDs for superior optical performance and light control.

Applications: Landscape, walk-ways and general site lighting

Performance Summary

Patented NanoOptic® Product Technology

Assembled in the U.S.A. of U.S. and imported parts

CRI: Minimum 70 CRI

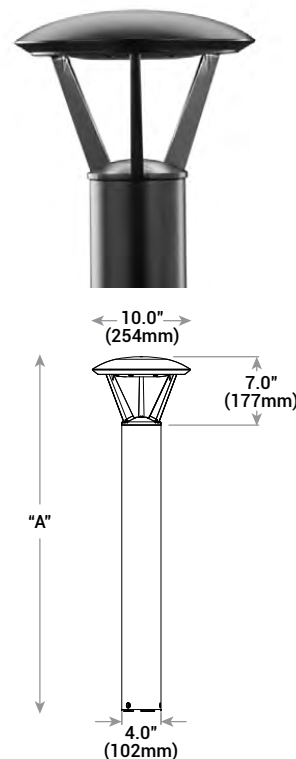
CCT: 4000K (+/- 300K), 5700K (+/- 500K) standard

Limited Warranty*: 10 years on luminaire/10 years on Colorfast DeltaGuard® finish

*See <http://creelighting.com/warranty> for warranty terms

Accessories

Field-Installed
Upgrade Kit - Used for replacement of existing bollards with a bolt hole circle of 5.75" [146mm] XA-XBP8RSV XA-XBP8RWH XA-XBP8RBK XA-XBP8RBZ



Model	Dim. "A"	Weight*
Landscape [P0]	13" [330mm]	12.7 lbs. (5.8kg)
Landscape [P1]	18" [457mm]	13.3 lbs. (6.0kg)
Pathway [P3]	36" [914mm]	17.9 lbs. (8.1kg)
Pathway [P4]	42" [1068mm]	18.6 lbs. (8.4kg)
Pedestrian [P8]	96" [2438mm]	28.4 lbs (12.9kg)

* Add 4.5 lbs. [2.0kg] for 347-480V

Ordering Information

Example: PWY-EDG-2M-P0-02-E-UL-SV-350

PWY-EDG	Optic	Mounting	LED Count (x9)	Series	Voltage	Color Options	Drive Current	Options
PWY-EDG	2M Type II Medium 3M Type III Medium 5M Type V Medium 5S Type V Short	P0 13" (330mm) landscape P1 18" (457mm) landscape P3 36" (914mm) pathway P4 42" (1067mm) pathway P8 96" (2438mm) pedestrian	02	E	UL Universal 120-277V UH* Universal 347-480V - Available with P3, P4, and P8 mounts only 12 120V - Available only with TL options 27 277V - Available only with TL options	BK Black BZ Bronze SV Silver WH White	350 350mA 525 525mA - Available with P1, P3, P4, and P8 mounts only	HL Hi/Low (Dual Circuit Input) - Available with UL voltage and 525mA driver current only - Must specify 525mA drive current - Refer to HL spec sheet for details - Sensor not included TL Two-Level (175/525 w/integrated sensor control) - Available with 12 or 27 voltages only - Must specify 525mA drive current - Refer to TL spec sheet for details TL2 Two-Level (0/350 w/integrated sensor control) - Available with 12 or 27 voltages only - Must specify 350mA drive current - Refer to TL spec sheet for details TL3 Two-Level (0/525 w/integrated sensor control) - Available with 12 or 27 voltages only - Must specify 525mA drive current - Refer to TL spec sheet for details WB Welded Base Plate - Standard on P8 mount option, available with P3 and P4 mount - Includes welded base cover 40K 4000K Color Temperature - Minimum 70 CRI - Color temperature per luminaire

* 347-480V utilizes magnetic step-down transformer. For input power for 347-480V, refer to the Electrical Data table



US: creelighting.com (800) 236-6800

Canada: creelighting-canada.com (800) 473-1234

Product Specifications


CONSTRUCTION & MATERIALS

- Durable die-cast aluminum luminaire housing mounts directly to 4" (102mm) diameter pole (included) without visible mounting hardware for clean appearance
- Pole mounts to rugged die cast aluminum internal flange secured by three 3/8"-16x6" anchor bolts with 1-1/4" hook (provided).
Note: T45 Torx 3/8" socket required for head installation
- Top mounted LEDs for superior optical performance and light control
- Open design, passive thermal management for superior lumen maintenance
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultradurable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Black, bronze, silver and white are available
- **Weight:** See Dimension and Weight Chart on pages 1 and 4

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load at 120V
- **Total Harmonic Distortion:** < 20% at full load at 120V
- Integral 10kV surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current
- Consult factory if in-luminaire fusing is required

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- ANSI C136.2 10kV surge protection, tested in accordance with IEEE/ANSI C62.41.2
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Meets Buy American requirements within ARRA
- RoHS compliant. Consult factory for additional details
-  **CA RESIDENTS WARNING:** Cancer and Reproductive Harm – www.p65warnings.ca.gov

Electrical Data*								
LED Count (x9)	System Watts 120-277V	System Watts 347-480V	Total Current (A)					
			120V	208V	240V	277V	347V	480V
350mA								
02	22	28	0.18	0.12	0.10	0.10	0.09	0.13
525mA								
02	34	40	0.29	0.19	0.17	0.15	0.12	0.13

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-277V or 347-480V +/- 10%

THE EDGE® Series Ambient Adjusted Lumen Maintenance ¹					
Ambient	Initial LMF	25K hr Reported ² LMF	50K hr Reported ² LMF	75K hr Estimated ³ LMF	100K hr Estimated ³ LMF
5°C (41°F)	1.04	1.01	1.00	1.00	1.00
10°C (50°F)	1.03	1.00	0.99	0.99	0.99
15°C (59°F)	1.02	0.99	0.98	0.98	0.98
20°C (68°F)	1.01	0.98	0.97	0.97	0.96
25°C (77°F)	1.00	0.96	0.96	0.96	0.95

¹ Lumen maintenance values at 25°C (77°F) are calculated per IES TM-21 based on IES LM-80 report data for the LED package and in-situ luminaire testing. Luminaire ambient temperature factors (LATF) have been applied to all lumen maintenance factors. Please refer to the [Temperature Zone Reference Document](#) for outdoor average nighttime ambient conditions.

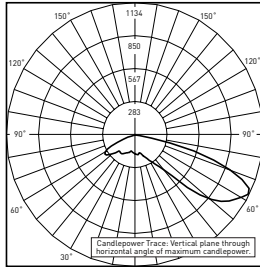
² In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x the tested duration in the IES LM-80 report for the LED.

³ Estimated values are calculated and represent time durations that exceed the 6x test duration of the LED.

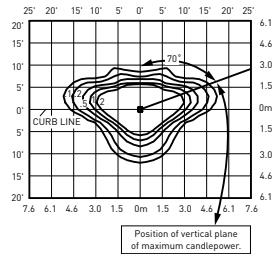
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: <http://creelighting.com/products/outdoor/bollards-and-pathway/cree-edge-pathway>

2M



RESTL Test Report #: PL5758-001
 PWY-EDG-2M-**-02-E-UL-350-40K
 Initial Delivered Lumens: 1,549

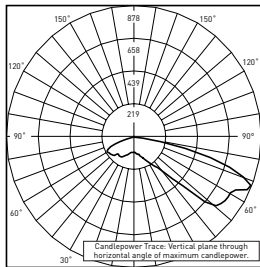


PWY-EDG-2M-**-02-E-UL-350-40K
 Mounting Height: 3' [0.9m] A.F.G.
 Initial Delivered Lumens: 1,565
 Initial FC at grade

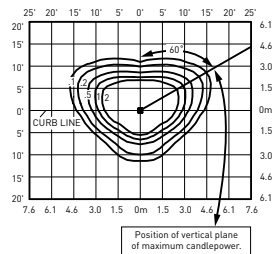
Type II Medium Distribution				
LED Count (x9)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
02	1,565	B1 U0 G1	1,625	B1 U0 G1
525mA				
02	2,191	B1 U0 G1	2,276	B1 U0 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
 ** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

3M



RESTL Test Report #: PL5698-001
 PWY-EDG-3M-**-02-E-UL-350-40K
 Initial Delivered Lumens: 1,470

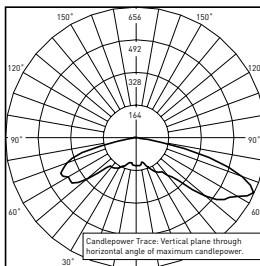


PWY-EDG-3M-**-02-E-UL-350-40K
 Mounting Height: 3' [0.9m] A.F.G.
 Initial Delivered Lumens: 1,389
 Initial FC at grade

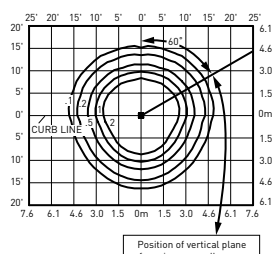
Type III Medium Distribution				
LED Count (x9)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
02	1,389	B1 U0 G1	1,442	B1 U0 G1
525mA				
02	1,944	B1 U0 G1	2,019	B1 U0 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
 ** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

5M



RESTL Test Report #: PL5798-001
 PWY-EDG-5M-**-02-E-UL-350-40K
 Initial Delivered Lumens: 1,780



PWY-EDG-5M-**-02-E-UL-350-40K
 Mounting Height: 3' [0.9m] A.F.G.
 Initial Delivered Lumens: 1,666
 Initial FC at grade

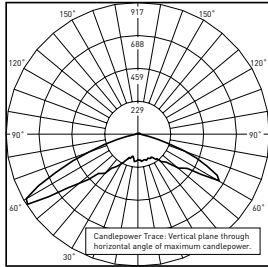
Type V Medium Distribution				
LED Count (x9)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
02	1,666	B1 U2 G1	1,730	B1 U2 G1
525mA				
02	2,333	B2 U2 G2	2,422	B2 U2 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
 ** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

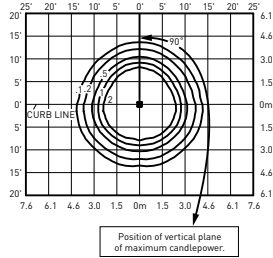
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: <http://creelighting.com/products/outdoor/bollards-and-pathway/cree-edge-pathway>

55



RESTL Test Report #: PL5759-001
 PWY-EDG-5S-**-02-E-UL-350-40K
 Initial Delivered Lumens: 1,897



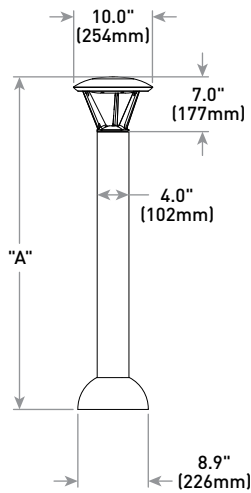
PWY-EDG-5S-**-02-E-UL-350-40K
 Mounting Height: 3' [0.9m] A.F.G.
 Initial Delivered Lumens: 1,868
 Initial FC at grade

Type V Short Distribution				
LED Count (x9)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
02	1,868	B1 U2 G1	1,940	B1 U2 G1
525mA				
02	2,615	B1 U2 G1	2,716	B1 U2 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

with Welded Base



Model	Dim. "A"	Weight*
Pathway (P3)	36" [914mm]	17.9 lbs. [8.1kg]
Pathway (P4)	42" [1068mm]	18.6 lbs. [8.4kg]
Pedestrian (P8)	96" [2438mm]	28.4 lbs [12.9kg]

* Add 4.5 lbs. [2.0kg] for 347-480V

DESCRIPTION

The patented Lumark Crosstour™ LED Wall Pack Series of luminaires provides an architectural style with super bright, energy efficient LEDs. The low-profile, rugged die-cast aluminum construction, universal back box, stainless steel hardware along with a sealed and gasketed optical compartment make the Crosstour impervious to contaminants. The Crosstour wall luminaire is ideal for wall/surface, inverted mount for façade/canopy illumination, post/bollard, site lighting, floodlight and low level pathway illumination including stairs. Typical applications include building entrances, multi-use facilities, apartment buildings, institutions, schools, stairways and loading docks test.

SPECIFICATION FEATURES

Construction

Slim, low-profile LED design with rugged one-piece, die-cast aluminum hinged removable door and back box. Matching housing styles incorporate both a small and medium design. The small housing is available in 12W, 18W and 26W. The medium housing is available in the 38W model. Patented secure lock hinge feature allows for safe and easy tool-less electrical connections with the supplied push-in connectors. Back box includes three half-inch, NPT threaded conduit entry points. The universal back box supports both the small and medium forms and mounts to standard 3-1/2" to 4" round and octagonal, 4" square, single gang and masonry junction boxes. Key hole gasket allows for adaptation to junction box or wall. External fin design extracts heat from the fixture surface. One-piece silicone gasket seals door and back box. Minimum 5" wide pole for site lighting application. Not recommended for car wash applications.

Optical

Silicone sealed optical LED chamber incorporates a custom engineered mirrored anodized reflector providing high-efficiency illumination. Optical assembly includes impact-resistant tempered glass and meets IESNA requirements for full cutoff compliance. Available in seven lumen packages; 5000K, 4000K and 3000K CCT.

Electrical

LED driver is mounted to the die-cast housing for optimal heat sinking. LED thermal management system incorporates both conduction and natural convection to transfer heat rapidly away from the LED source. 12W, 18W, 26W and 38W series operate in -40°C to 40°C [-40°F to 104°F]. High ambient 50°C models available. Crosstour luminaires maintain greater than 89% of initial light output after 72,000 hours of operation. Three half-inch NPT threaded conduit entry points allow for thru-branch wiring. Back box is an authorized

Catalog #	TYPE 'C' (NEW)		Type
Project			
Comments			Date
Prepared by			

electrical wiring compartment.

Integral LED electronic driver incorporates surge protection. 120-277V 50/60Hz or 347V 60Hz models.

Finish

Crosstour is protected with a Super durable TGIC carbon bronze or summit white polyester powder coat paint. Super durable TGIC powder coat paint finishes withstand extreme climate conditions while providing optimal color and gloss retention of the installed life.

Warranty

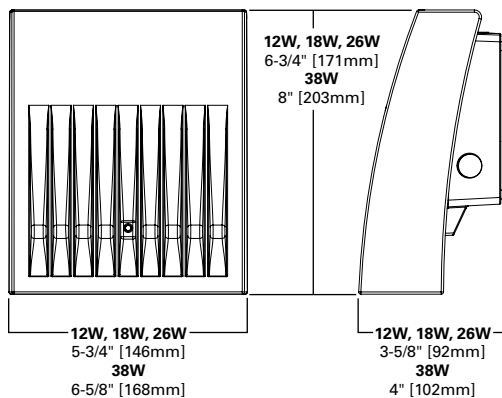
Five-year warranty.



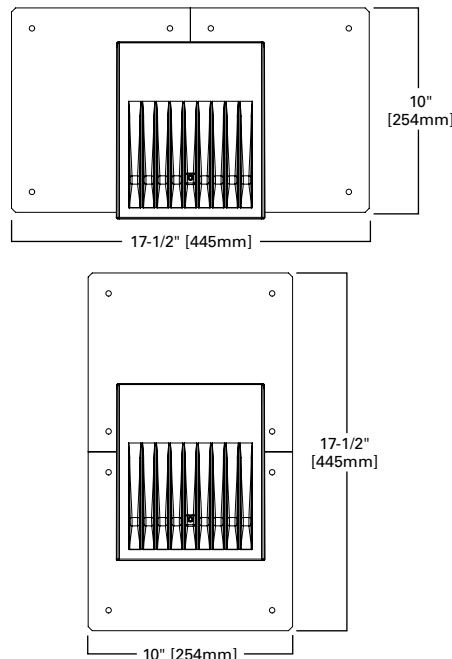
XTOR CROSSTOUR LED

APPLICATIONS:
WALL / SURFACE
POST / BOLLARD
LOW LEVEL
FLOODLIGHT
INVERTED
SITE LIGHTING

DIMENSIONS



ESCUTCHEON PLATES



CERTIFICATION DATA

Dark Sky Approved (Fixed mount, Full cutoff, and 3000K CCT only)
UL/cUL Wet Location Listed
LM79 / LM80 Compliant
ROHS Compliant
ADA Compliant
NOM Compliant Models
IP66 Ingress Protection Rated
Title 24 Compliant
DesignLights Consortium® Qualified*

TECHNICAL DATA

40°C Maximum Ambient Temperature
External Supply Wiring 90°C Minimum

EPA

Effective Projected Area (Sq. Ft.):
XTOR1B, XTOR2B, XTOR3B=0.34
XTOR4B=0.45

SHIPPING DATA:

Approximate Net Weight:
3.7 – 5.25 lbs. [1.7 – 2.4 kgs.]

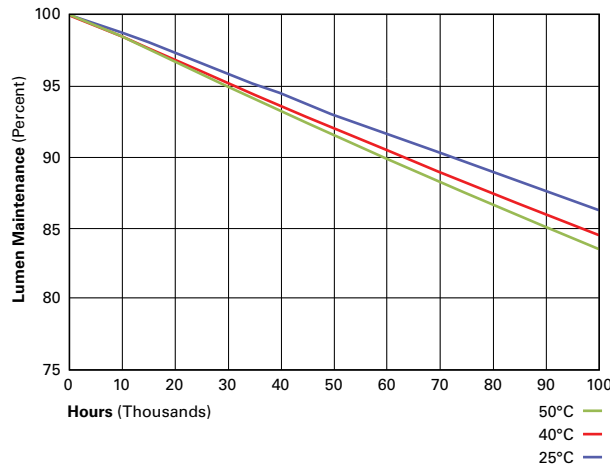
POWER AND LUMENS BY FIXTURE MODEL

LED Information	XTOR1B	XTOR1B-W	XTOR1B-Y	XTOR2B	XTOR2B-W	XTOR2B-Y	XTOR3B	XTOR3B-W	XTOR3B-Y	XTOR4B	XTOR4B-W	XTOR4B-Y
Delivered Lumens (Wall Mount)	1,418	1,396	1,327	2,135	2,103	1,997	2,751	2,710	2,575	4,269	4,205	3,995
Delivered Lumens (With Flood Accessory Kit) ¹	1,005	990	940	1,495	1,472	1,399	2,099	2,068	1,965	3,168	3,121	2,965
B.U.G. Rating ²	B1-U0-G0	B1-U0-G0	B1-U0-G0	B1-U0-G0	B1-U0-G0	B1-U0-G0	B1-U0-G0	B1-U0-G0	B1-U0-G0	B2-U0-G0	B2-U0-G0	B2-U0-G0
CCT (Kelvin)	5,000	4,000	3,000	5,000	4,000	3,000	5,000	4,000	3,000	5,000	4,000	3,000
CRI (Color Rendering Index)	70	70	70	70	70	70	70	70	70	70	70	70
Power Consumption (Watts)	12W	12W	12W	18W	18W	18W	26W	26W	26W	38W	38W	38W

NOTES: 1 Includes shield and visor. 2 B.U.G. Rating does not apply to floodlighting.

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (72,000 Hours)	Theoretical L70 (Hours)
XTOR1B Model		
25°C	> 90%	255,000
40°C	> 89%	234,000
50°C	> 88%	215,000
XTOR2B Model		
25°C	> 89%	240,000
40°C	> 88%	212,000
50°C	> 87%	196,000
XTOR3B Model		
25°C	> 89%	240,000
40°C	> 88%	212,000
50°C	> 87%	196,000
XTOR4B Model		
25°C	> 89%	222,000
40°C	> 87%	198,000
50°C	> 87%	184,000



CURRENT DRAW

Voltage	Model Series			
	XTOR1B	XTOR2B	XTOR3B	XTOR4B
120V	0.103A	0.15A	0.22A	0.34A
208V	0.060A	0.09A	0.13A	0.17A
240V	0.053A	0.08A	0.11A	0.17A
277V	0.048A	0.07A	0.10A	0.15A
347V	0.039A	0.06A	0.082A	0.12A

ORDERING INFORMATION

Sample Number: XTOR2B-W-WT-PC1

Series ¹	LED Kelvin Color	Housing Color	Options (Add as Suffix)	Accessories (Order Separately)
XTOR1B =Small Door, 12W XTOR2B =Small Door, 18W XTOR3B =Small Door, 26W XTOR4B =Medium Door, 38W	[Blank] =Bright White (Standard), 5000K W =Neutral White, 4000K Y =Warm White, 3000K	[Blank] =Carbon Bronze (Standard) WT =Summit White BK =Black BZ =Bronze AP =Grey GM =Graphite Metallic DP =Dark Platinum	PC1 =Photocontrol 120V ² PC2 =Photocontrol 208-277V ^{2,3} 347V =347V ⁴ HA =50°C High Ambient ⁴	WG/XTOR =Wire Guard ⁵ XTORFLD-KNC =Knuckle Floodlight Kit ⁶ XTORFLD-TRN =Trunnion Floodlight Kit ⁶ XTORFLD-KNC-WT =Knuckle Floodlight Kit, Summit White ⁶ XTORFLD-TRN-WT =Trunnion Floodlight Kit, Summit White ⁶ EWP/XTOR =Escutcheon Wall Plate, Carbon Bronze EWP/XTOR-WT =Escutcheon Wall Plate, Summit White

NOTES:

1. DesignLights Consortium® Qualified and classified for both DLC Standard and DLC Premium, refer to www.designlights.org for details.
2. Photocontrols are factory installed.
3. Order PC2 for 347V models.
4. Thru-branch wiring not available with HA option or with 347V. XTOR3B not available with HA and 347V or 120V combination.
5. Wire guard for wall/surface mount. Not for use with floodlight kit accessory.
6. Floodlight kit accessory supplied with knuckle (KNC) or trunnion (TRN) base, small and large top visors and small and large impact shields.

STOCK ORDERING INFORMATION

12W Series	18W Series	26W Series	38W Series
XTOR1B =12W, 5000K, Carbon Bronze	XTOR2B =18W, 5000K, Carbon Bronze	XTOR3B =26W, 5000K, Carbon Bronze	XTOR4B =38W, 5000K, Carbon Bronze
XTOR1B-WT =12W, 5000K, Summit White	XTOR2B-W =18W, 4000K, Carbon Bronze	XTOR3B-W =26W, 4000K, Carbon Bronze	XTOR4B-W =38W, 4000K, Carbon Bronze
XTOR1B-PC1 =12W, 5000K, 120V PC, Carbon Bronze	XTOR2B-WT =18W, 5000K, Summit White	XTOR3B-WT =26W, 5000K, Summit White	XTOR4B-WT =38W, 5000K, Summit White
XTOR1B-W =12W, 4000K, Carbon Bronze	XTOR2B-PC1 =18W, 5000K, 120V PC, Carbon Bronze	XTOR3B-PC1 =26W, 5000K, 120V PC, Carbon Bronze	XTOR4B-PC1 =38W, 5000K, 120V PC, Carbon Bronze
	XTOR2B-W-PC1 =18W, 4000K, 120V PC, Carbon Bronze	XTOR3B-W-PC1 =26W, 4000K, 120V PC, Carbon Bronze	XTOR4B-W-PC1 =38W, 4000K, 120V PC, Carbon Bronze
	XTOR2B-347V =18W, 5000K, Carbon Bronze, 347V	XTOR3B-347V =26W, 5000K, Carbon Bronze, 347V	XTOR4B-347V =38W, 5000K, Carbon Bronze, 347V
	XTOR2B-WT-PC1 =18W, 5000K, 120V PC, Summit White	XTOR3B-PC2 =26W, 5000K, 208-277V PC, Carbon Bronze	

NOTES:

- 1. ALL EXTERIOR LIGHT FIXTURES SHALL BE DARK SKY COMPLIANT.
- 2. ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY WILL NEED TO BE CONSTRUCTED PER THE LATEST EDITION TO THE "CITY OF FITCHBURG STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION."

- 3. PER CITY ORDINANCE, CONTRACTORS ARE NOT ALLOWED TO OPERATE CITY OWNED VALVES. THE CONTRACTOR SHALL CALL THE FITCHBURG UTILITY AT 270-4270 FOR OPERATION OF THESE VALVES.
- 4. SAFE SAMPLE RESULTS NEED TO BE PROVIDED TO THE FITCHBURG UTILITY PRIOR TO PRESSURE TESTING THE PRIVATE WATER MAINS.

- 5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THE EXISTING VALVES WILL HOLD THE PRESSURE TEST PRIOR TO CONNECTION. THE CITY IS NOT RESPONSIBLE FOR ANY COSTS INCURRED DUE TO THE CONTRACTOR NOT VERIFYING THAT THE EXISTING VALVE WILL HOLD THE PRESSURE TEST PRIOR TO CONNECTION. IF A NEW VALVE IS REQUIRED, THE APPLICANT WILL BE REQUIRED TO INSTALL ONE AT THEIR EXPENSE AT THE POINT OF CONNECTION.

- 6. ALL SANITARY SEWER AND WATER SERVICES NOT USED WILL NEED TO BE ABANDONED PER CITY OF FITCHBURG STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- 7. CONNECT PROPOSED 4" D.I. WATER LATERAL WITH SMITH-BLAIR 622 LIVE TAP AND VALVE PER CITY STANDARDS.

PARKING
 REQUIRED: 1 STALL PER 300 S.F.
 8,338 S.F. / (300 S.F. / 1 STALL) = 28 STALLS REQUIRED
 NUMBER OF STALLS PROVIDED = 71
IMPERVIOUS AREA
 TOTAL IMPERVIOUS AREA = 31,900 S.F.
 TOTAL LOT AREA = 81,115 S.F.
 ISR = 31,900 S.F. / 81,115 S.F. = 0.39 = 39%

GENERAL ENGINEERING COMPANY
 916 SILVER LAKE DRIVE
 PORTAGE, WI 53901
 608-742-2169
 608-742-2592 FAX
 gpec@generaleng.com

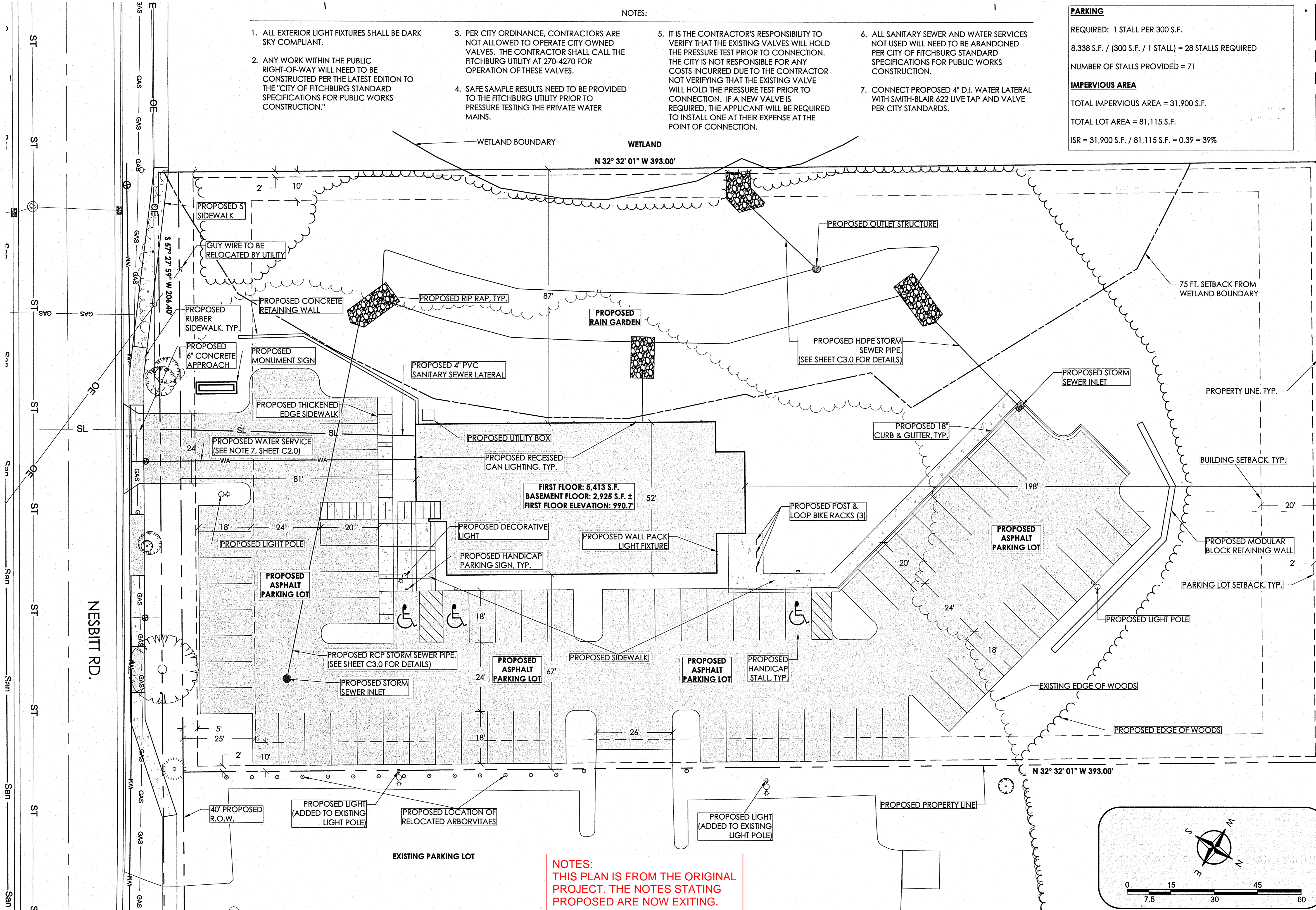
HARMONY Construction Management, Inc.
 906 JONATHAN DRIVE
 MADISON, WI 53713
 PHONE: 608-224-3310
 FAX: 608-224-4392

SARA INVESTMENT REAL ESTATE LLC
 6250 NESBITT RD, SUITE 500
 MADISON, WI 53719
 PHONE: 608-452-9777
 FAX: 608-237-7695

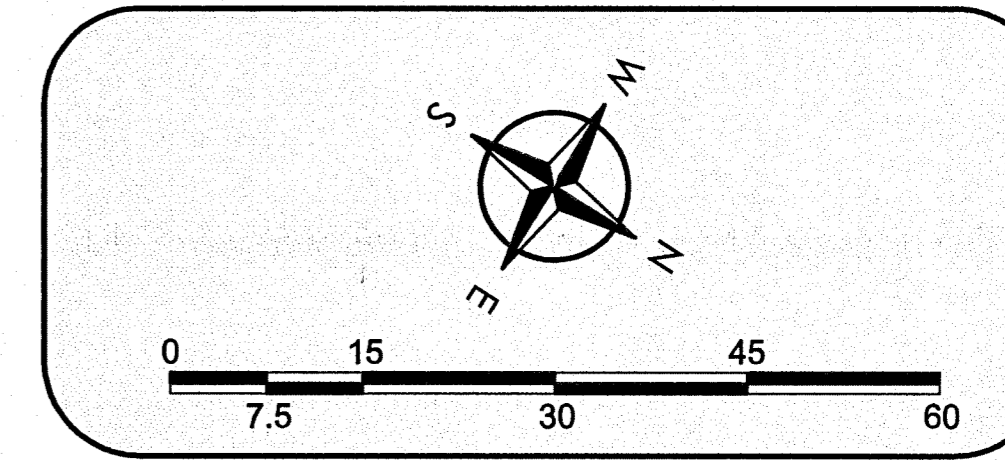
REVISIONS	NO.	BY	DATE
PER APP. REVIEW COMMENTS	1	ZLR	12/20/2011
PLAN UPDATES	2	ZLR	12/29/2011
PLAN UPDATES	3	ZLR	12/29/2011
DSPS SUBMITTAL	4	EDH	01/09/2012

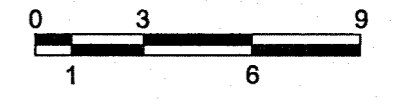
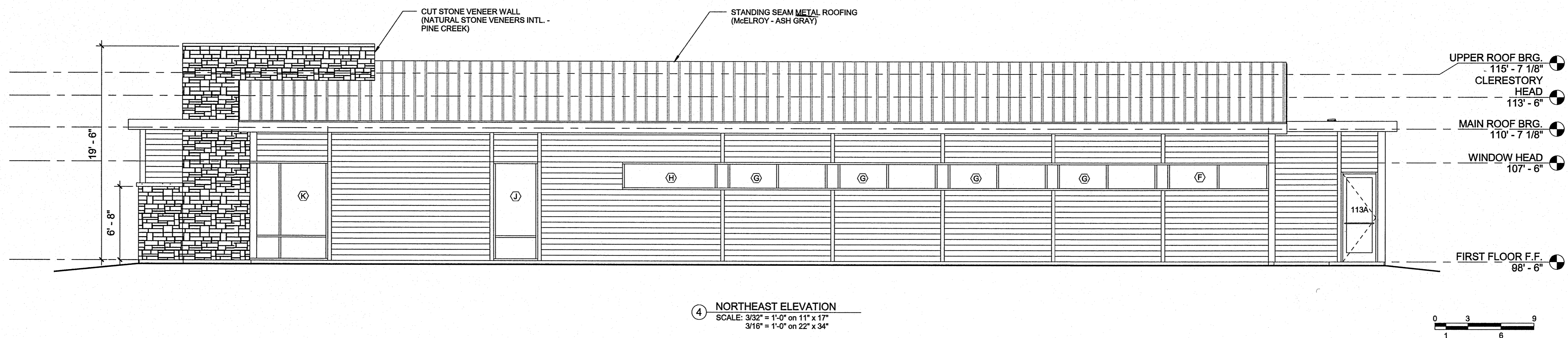
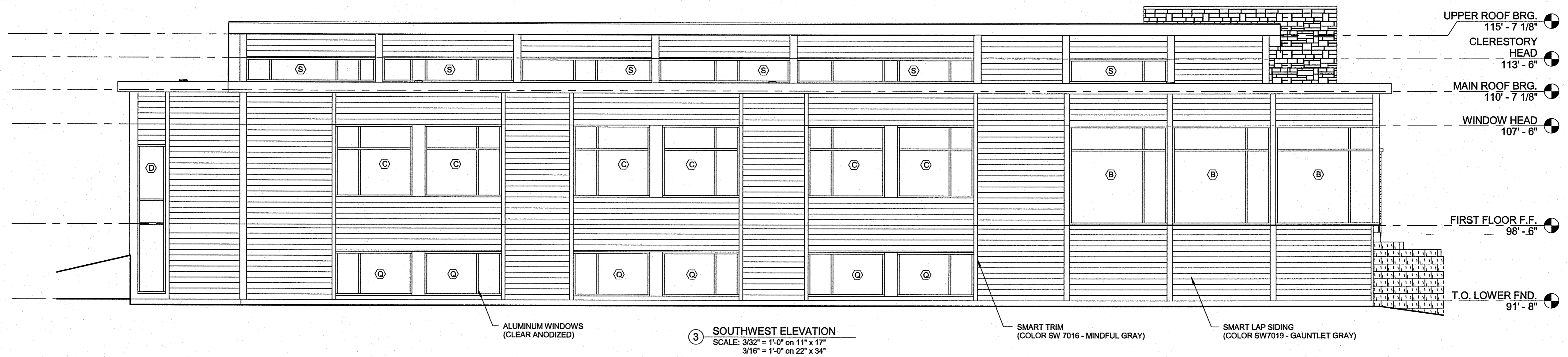
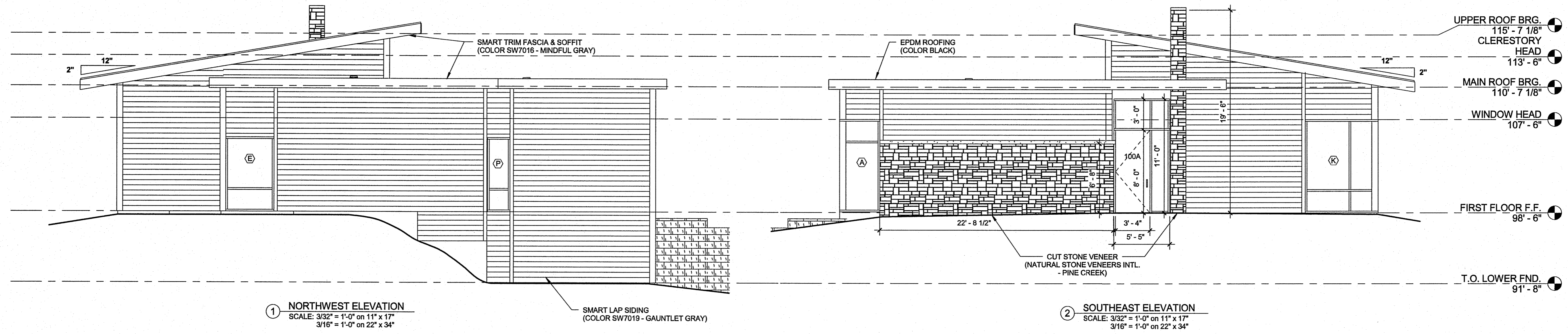
EXISTING SITE & UTILITY PLAN
SARA INVESTMENT CORPORATE OFFICE
 Sara Investment Real Estate, LLC
 City of Fitchburg
 Dane County, WI
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DATE	12/20/2011
BY	ZLR
GEC FILE NO.	0911-214
SHEET NO.	C-0



NOTES:
 THIS PLAN IS FROM THE ORIGINAL PROJECT. THE NOTES STATING PROPOSED ARE NOW EXISTING.





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SARA INVESTMENT REAL ESTATE LLC
6250 NESSBITT RD, SUITE 600
MADISON, WI 53719
PHONE: 608-852-8777
FAX: 608-237-7895

REVISIONS	NO.	BY	DATE
DSPS Submittal	1	JEO	01/09/2012

EXISTING ELEVATIONS
SARA INVESTMENT CORPORATE OFFICE
Sara Investment Real Estate, LLC
City of Fitchburg
D. Co. Inc.
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DATE	01/09/2012
BY	JEO
GEC FILE NO.	0911-214
SHEET NO.	A-1