

**File No. 190159**  
**DETAILED PLANNED DEVELOPMENT SUBMITTAL**  
**DETAILED PLAN PROJECT DESCRIPTION AND OWNER'S STATEMENT OF INTENT**  
**WESTERN BUILDING PRODUCTS, INC.**  
**7007 and 7007-R North 115<sup>th</sup> Street**  
**June 24, 2019**

Western Building Products and Briohn Building Corporation are proposing to rezone the property at 7007 and 7007-R North 115<sup>th</sup> Street as a Planned Development District per Chapter 295-907 of the City of Milwaukee Zoning Code of Ordinances. The site will be Western's new corporate headquarters.

Western Building Products is the premier value-added two-step distributor in the Midwest. Western offers a wide breadth of millwork products such as mouldings, doors, stair parts and more, serving an ever-expanding customer base in Wisconsin, Illinois, Indiana and Iowa. The company is an employee-owned ESOP (Employee Stock Ownership Plan) organization.

Western has been at its current facility in Wauwatosa since 1946, but has outgrown that site. We have explored several options in the Milwaukee area, but feel that this site offers the best combination of transportation access, room for future growth and proximity to current and future employee-owners.

Western's current facility has approximately 200 employees working in office, distribution and production operations. The proposed approximately 326,600 square foot facility will maintain those numbers, with room for growth. Operations on the site will include distribution, storage, light manufacturing and office/sales functions. The majority of the space is for storage and distribution of doors and moulding products. There will be a number of value-added production spaces within the facility: a pre-finishing/painting shop, interior and exterior pre-hung door shops and a handful of other carpentry and maintenance/repair shops.

Employee and visitor automobile traffic will enter from 115<sup>th</sup> Street and be directed to the front parking lot. Truck traffic will enter and exit at the northern end of the site, closest to Good Hope Road – adjacent to the cellular tower and public park-and-ride, and furthest away from adjacent residential properties. A narrow drive is proposed along the south end of the property, but that drive will only be used for fire access or in case of emergency. The facility handles some customer relations/pick-up options on an as-needed basis, but this is not a retail operation.

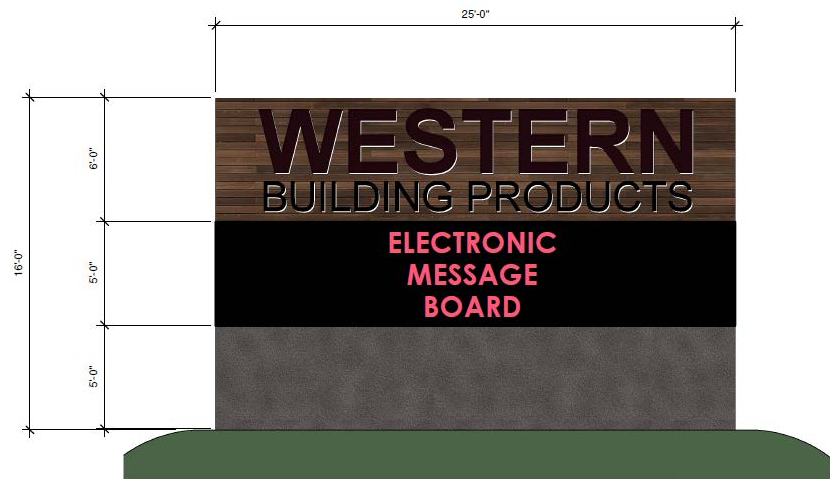
The site is designed to provide opportunity for future growth as shown on the attached drawings. The parking adjacent to the office area can expand either north or south; the warehouse/shop can expand to the north. Adequate space for additional employee parking is available as shown. Additional details and site data are listed in the following tables. A future minor modification will be sought in the future for approval of the site plan and building elevations for the Phase II expansion, provided the site statistics noted in this narrative for Phase II are adhered to.

<b>DISTRICT STANDARDS (s. 295-907):</b>	
<b>Uses:</b>	<p>Light manufacturing / Industrial  Storage and distribution  General office / business services  Automobile parking  Truck docks, parking and trailer storage (in rear of site)</p>
<b>Design standards:</b>	<p>The proposed building will be constructed primarily of painted precast concrete wall panels with clerestory windows and a structural steel roof.</p> <p>The office portion of the building will have additional exterior glazing and detailing. The main entrance feature serves as the architectural focal point through the use of height, glass and wood features that incorporate elements of Western’s business. As requested by Milwaukee County, we will use bird-friendly glass and/or window film where appropriate.</p> <p>Additional architectural elements, details and accents will be as shown in the attached drawings. Landscaping, building accent lighting and sidewalk bollard lights will complement the building architecture.</p>
<b>Density:</b>	N/A (single structure proposed)
<b>Space between structures:</b>	N/A (single structure proposed)
<b>Setbacks (approximately):</b>	<p>25-foot front yard; 15-foot side yards; substantial rear yard along river, with most of the existing woods left in place.</p> <p>Front yard (east and north): 25’ required; min 25.5’ provided to paving Phase 1, 124.4’ to building Phase 1, 25.4’ to paving Phase 2, 25.9’ to building Phase 2.</p> <p>Side yard (south): 15’ required; 15.0’ to paving Phases 1 and 2, 61.2’ to building Phases 1 and 2.</p> <p>Rear yard (west): Dimensions range from 220’ to several hundred feet, including most of the existing woods along the river.</p>
<b>Screening:</b>	<p>Site- and neighborhood-appropriate landscape buffering and screening is provided at the north and south ends of the truck dock and trailer storage areas. As requested by the Plan Commission, we have added a substantial number of trees along the south portion of the site to complement the building architecture and provide</p>

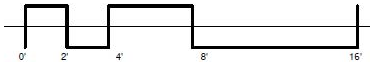
	<p>additional screening of the parking lot and truck area. In addition, we have raised the grade along the south wall of the building to provide additional screening of the docks, lower the perceived height of the building and enhance the landscape buffer.</p> <p>The 25-foot front yard is provided with landscape buffering appropriate for the suburban context of the neighborhood.</p>
<p><b>Open spaces:</b></p>	<p>Most of the existing trees along the Menomonee River will remain in place.</p> <p>All areas within the disturbed site area without buildings, paving or storm water facilities will be landscaped as shown in the attached drawings.</p>
<p><b>Circulation, parking and loading:</b></p>	<p>Employee/visitor entrances and parking areas are located in the front of the site and separated from truck areas. The parking areas may be expanded (as shown on the site plan) in conjunction with the future building expansion. Parking quantities are outlined in the “Site Statistics” section below.</p> <p>As requested by the Plan Commission, three landscape islands have been added to the employee parking lot to enhance the look and reduce the heat island effect.</p> <p>Truck traffic will enter and exit at the northern tip of the site and will be routed to the dock and trailer parking area in the rear of the site; the 15-foot wide drive along the south end of the building will be for fire and emergency use only.</p> <p>Enclosures (with gates) are planned for dumpsters at the north and south ends of the dock area. Enclosure walls to be concrete; gates to be painted corrugated steel decking and steel framing. The enclosures are currently planned for two (2) dumpsters each, but can be expanded as necessary to provide screening for any future dumpsters. It is possible that one or more docks will be fitted with compactors in the future, but the needs are not currently known.</p>
<p><b>Landscaping:</b></p>	<p>See submitted landscaping drawings for layout, species and quantities (sheets L1.0, L1.1, L1.2, L1.3 and L1.4). Revised plans have been submitted that include the additional parking lot islands and supplemental trees along the south property buffer.</p> <p>No irrigation systems are currently planned for the site, but a maintenance program will be developed to keep the installed landscaping healthy in the future.</p>

	<p>The existing site or interim condition must be maintained in an orderly fashion consistent with the zoning standards of the site prior to rezoning to DPD, including all existing turf and landscaping, until such time that the subject DPD is constructed. All landscaping and required site features shall be installed within a maximum of 30 days total of the City issuing a Certificate of Occupancy (excluding time between December 1 and March 1) for the subject DPD.</p>
<p><b>Lighting:</b></p>	<p>Pole- and wall-mounted LED fixtures in car parking areas and along entry drives (20’ poles mounted on 2’ concrete bases). Fixtures adjacent to neighboring properties will be provided with cut-offs to prevent light pollution off of the property.</p> <p>Pole- and wall-mounted LED fixtures in truck dock and trailer parking areas (25’ poles mounted on 2’ concrete bases). Fixtures adjacent to neighboring properties will be provided with cut-offs to prevent light pollution off of the property.</p> <p>Wall-mounted architectural LED fixtures on building exterior; LED bollard fixtures along front sidewalks.</p> <p>Lighting will follow standards set forth in s. 295-409 of the zoning code.</p>
<p><b>Utilities:</b></p>	<p>Water service: To be provided via new public water main in North 115<sup>th</sup> Street.</p> <p>Sanitary sewer: To be provided via new public sanitary sewer main in North 115<sup>th</sup> Street (private lift pump to be installed).</p> <p>Storm sewer: Catch basins and underground piping will collect storm water from the building and all paved areas; all storm water will be treated via proposed storm water pond and bio-retention basin before being discharged into the Menomonee River.</p> <p>Electric and gas utilities: To be provided by WE Energies.</p> <p>Fiber / data / cable utilities: To be provided by T.B.D.</p>
<p><b>Signs:</b></p>	<p>The following signs are proposed for this development:</p> <ul style="list-style-type: none"> <li>- A large monument sign along the 115<sup>th</sup> Street frontage of the site. Visibility and brand awareness are key selling points of this site. We will be proposing an LED display, in conjunction with Western’s corporate logo, at a height/elevation that will balance visibility from the interstate with respect for neighboring properties. We will work with the City on screening options, if necessary.</li> </ul>

- The sign will be approximately 16 feet in height by 25 feet in length, and will be 2-sided. The center 5 feet of the sign will have the LED display, and the upper 6 feet will consist of a wood material (or fiber cement material replicating the look of wood) to compliment the entry area of the building, and will have the business name in individual letters. The letters will be either internally illuminated or back-lit.. The foundation and base of the sign will be concrete – potentially with some cast-in texture and slight color tinting. See image below for further details.
- The sign will follow s. 295-407-4 with respect to the changeable message component of the sign.



① MONUMENT SIGN ELEVATION  
1/4" = 1'-0"



- A mid-sized building-mounted sign near the main office entrance on the east (115<sup>th</sup> Street) (see the attached architectural elevations). The sign will be approximately 4' – 10" in height by 20' – 10" in length, and will consist of individual letters that will be internally illuminated or back-lit. A second building wall sign may be requested at the time that the Phase II expansion is applied for.
- Miscellaneous directional and operational signs as necessary within the site.
- Final signs will be reviewed and approved by DCD staff.

**Time limit on zoning:**

The proposed development will be started within 12 months of re-zoning.

Per s. 295-907-2-c-11, the DPD zoning designation shall be null and void within 5 years from the effective date of the ordinance amending

	the zoning map to create the DPD. The zoning of the property shall be changed to a General Planned Development (GPD) at that time, said district to be identified in the statement, unless the criteria identified in 295-907-c-11-a and –b are met. The time period specified pursuant to subd. 11 may be extended only by an ordinance amending the DPD, pursuant to s. 295-307.
<b>SITE STATISTICS:</b>	
<b>Gross land area:</b>	1,336,641 square feet (30.69 acres)
<b>Maximum amount of land covered by principal buildings (approx.):</b>	326,619 square feet proposed in initial phase (24.4% of site), expandable to 402,424 square feet (30.1% of site)
<b>Maximum amount of land devoted to parking, drives and parking structures (approx.):</b>	238,535 square feet proposed in initial phase(17.8% of site), expandable to 292,790 square feet (21.9% of site)
<b>Minimum amount of land devoted to landscaped open space (approx.):</b>	771,487 square feet proposed in initial phase(57.7% of site), reducing to 641,427 square feet (48.0% of site) upon building and paving expansion
<b>Max proposed dwelling unit density:</b>	N/A (no proposed residential uses)
<b>Proposed number of buildings:</b>	Single building with potential future expansion
<b>Max dwelling units:</b>	N/A (no proposed residential uses)
<b>Bedrooms per unit:</b>	N/A (no proposed residential uses)
<b>Parking spaces provided (approx.):</b>	<p>Three parking lot islands have been added, removing 6 spaces. <del>207</del> 201 car parking spaces proposed in the initial phase (0.63 per 1,000 GSF), expandable to <del>370</del> 364 car parking spaces (0.91 per 1,000 GSF)</p> <p>46 trailer/tractor parking spaces proposed in the rear yard</p> <p>Bicycle racks will be provided at the side employee entrance. Per zoning code, a minimum of 5 rack spaces will be provided (1 per 6,000 SF of office space). Bicycle rack placement and type will follow the provisions of the zoning code (s. 295-404).</p>

PROPOSED NEW BUILDING FOR:

# WESTERN BUILDING PRODUCTS

7007 N. 115TH STREET  
MILWAUKEE, WISCONSIN



EXTERIOR PERSPECTIVE LOOKING SOUTHWEST

SHEET INDEX			
Sheet Code	Sheet Number	Sheet Name	Discipline Code
MANUFACTURING - 2000000			
GENERAL			
000	TITLE SHEET		00-GENERAL
E-CAD			
E-1.0	PLAT OF SURVEY WITH MONOGRAPH		E-CAD
E-1.1	SITE PLAN		E-CAD
E-1.2	USE GRADING PLAN		E-CAD
E-1.3	USE UTILITY PLAN		E-CAD
E-1.4	USE SEWER		E-CAD
LANDSCAPING			
L-1.0	OVERALL LANDSCAPE PLAN		LANDSCAPING
L-1.1	UNMARKED LANDSCAPE PLAN - NORTH		LANDSCAPING
L-1.2	UNMARKED LANDSCAPE PLAN - SOUTH		LANDSCAPING
L-1.3	UNMARKED LANDSCAPE PLAN - WEST		LANDSCAPING
L-1.4	LANDSCAPE DETAILS, SIGNS & SCHEDULES		LANDSCAPING
ARCHITECTURE			
A-1.0	CODE PLAN AND LEGENDS		ARCHITECTURE
A-1.0	OVERALL FLOOR PLAN		ARCHITECTURE
A-1.1	OFFICE FLOOR		ARCHITECTURE
A-1.2	MANUFACTURING - NORTH		ARCHITECTURE
A-1.3	MANUFACTURING - SOUTH		ARCHITECTURE
A-1.4	MANUFACTURING - NORTH CLOSETORY		ARCHITECTURE
A-1.5	MANUFACTURING - SOUTH CLOSETORY		ARCHITECTURE
A-1.6	UNMARKED ENTRY PLANS		ARCHITECTURE
A-2.1	EXTERIOR ELEVATIONS		ARCHITECTURE
A-2.2	EXTERIOR ELEVATIONS		ARCHITECTURE
A-3.1	EXTERIOR PERSPECTIVES - OFFICE		ARCHITECTURE
A-3.2	EXTERIOR PERSPECTIVES - OVERALL		ARCHITECTURE
A-4.1	DOOR AND WINDOW SCHEDULES		ARCHITECTURE
A-5.1	PROPOSED SITE PLAN		ARCHITECTURE
ELECTRICAL			
E-1.0	USE GRADING PLAN		ELECTRICAL



TITLE SHEET

WESTERN BUILDING  
WESTERN BUILDING PRODUCTS  
7007 N. 115TH STREET  
MILWAUKEE, WI

PROGRESS SET  
NOT FOR CONSTRUCTION

CITY SUBMITTAL SET

MAY 10, 2019 JUNE 24, 2019 114

OWNER:	GENERAL CONTRACTOR:	ARCHITECT:	STRUCTURAL ENGINEER:	CIVIL ENGINEER:	PROJECT LOCATION:
WESTERN BUILDING PRODUCTS, INC. WILLIAM F. ZACHER 1300 GLENVIEW PLACE WAUWATOSA, WI 53213	BRIOHN BUILDING CORPORATION JEFF HOOK 3885 N. BROOKFIELD RD., SUITE 200 BROOKFIELD, WISCONSIN 53045 (262) 790-0500 PHONE (262) 790-0505 FAX	BRIOHN DESIGN GROUP LLC CHRISTOPHER WENZLER, AIA DOMENICO FERRANTE, AIA 3885 N. BROOKFIELD RD., SUITE 200 BROOKFIELD, WISCONSIN 53045 (262) 790-0500 PHONE (262) 790-0505 FAX	BRIOHN DESIGN GROUP LLC KEVIN JANKOWSKI, PE 3885 N. BROOKFIELD RD., SUITE 200 BROOKFIELD, WISCONSIN 53045 (262) 790-0500 PHONE (262) 790-0505 FAX	CJ ENGINEERING CHRISTOPHER A. JACKSON, PE, PLS 9205 W. CENTER STREET, SUITE 214 MILWAUKEE, WI 53222 PH: (414) 443-1312 X222 CELL: (414) 940-4450	

PROJECT INFORMATION:	
CODE:	SPS 360-366 WISCONSIN COMMERCIAL BUILDING CODE (IBC 2015, IECC 2015, IEBC 2015, IMC 2015 AND IFGC 2015) SPS 314 FIRE PREVENTION SPS 316 ELECTRICAL SPS 381-387 PLUMBING
OCCUPANCY:	PRIMARY B (OFFICE/BUSINESS) SECONDARY F-1 (MODERATE HAZARD FACTORY)
CLASS OF CONSTRUCTION:	TYPE 2B
SPRINKLER SYSTEM:	NONE
FLOOR LEVELS:	2
NUMBER OF STORIES:	1
BUILDING AREA:	BUILDING FOOTPRINT 326,619 SF

NSIB:  
ALL MECHANICAL, ELECTRICAL,  
PLUMBING AND FIRE SPRINKLER  
ENGINEERING BY DESIGN-BUILD  
CONTRACTORS

TRUE NORTH  
APPLICABLE  
TO ALL  
PLAN VIEWS

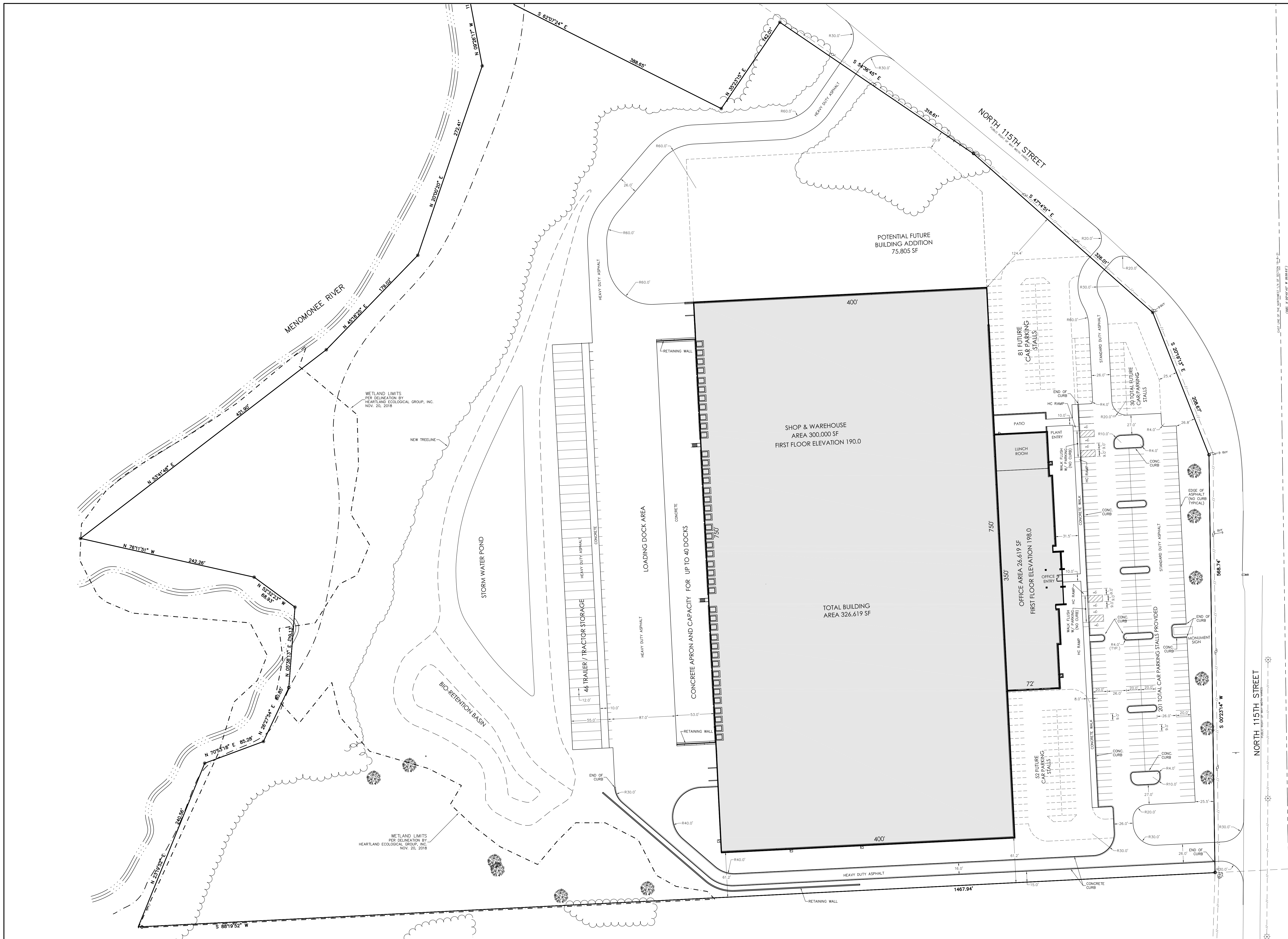
JOB: 3111  
DRAWN: CW  
CHECKED: JH  
DATE: 05-10-2019  
SHEET:  
**T0.0**



**WESTERN BUILDING PRODUCTS**  
 7007 N. 115TH STREET MILWAUKEE, WISCONSIN

CJE NO.: 190196  
 APRIL 12, 2019  
 REV. 06-24-19

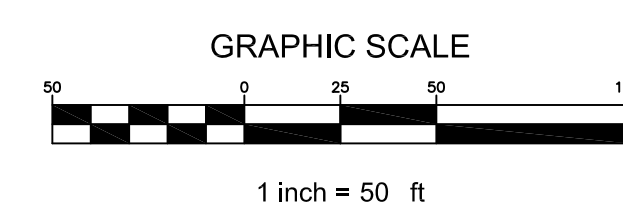
**C1.0**  
 SHEET 1 OF 5



**NOTES:**  
 1. DIMENSIONS ARE TO THE FACE OF CURB.  
 2. DISTURBED AREA = 950,000 S.F. (21.80 ACRES)  
 3. STORM WATER MANAGEMENT IS PROVIDED BY A SITE STORM WATER POND AND BIO RETENTION BASIN.

**SITE AREAS:**  
 PROPERTY AREA = 1,336,641 S.F. (30.69 ACRES)  
 BUILDING FOOTPRINT = 326,619 S.F. (7.50 ACRES)  
 FUTURE BUILDING FOOTPRINT = 75,805 S.F. (1.74 ACRES)  
 PAVEMENT = 237,853 S.F. (5.46 ACRES)  
 FUTURE PAVEMENT = 54,703 S.F. (1.25 ACRES)  
 TOTAL IMPERVIOUS AREA = 564,472 S.F. (12.96 ACRES)  
 TOTAL IMPERVIOUS AREA WITH FUTURE EXPANSION = 694,980 S.F. (15.95 ACRES)  
 OPEN (GREEN) SPACE = 772,169 (17.72 ACRES) 58%  
 OPEN SPACE WITH FUTURE EXPANSION = 641,661 S.F. (14.73 ACRES) 48%

**PARKING:**  
 REGULAR PARKING SPACES = 200  
 HANDICAPPED SPACES = 7  
 FUTURE PARKING SPACES = 163  
 TOTAL PARKING = 207 SPACES  
 ULTIMATE PARKING = 370 SPACES  
 TRAILER PARKING = 46 SPACES



**SITE PLAN**

(SEE SHEET C1.0 FOR CONTINUATION)





**WESTERN BUILDING PRODUCTS**

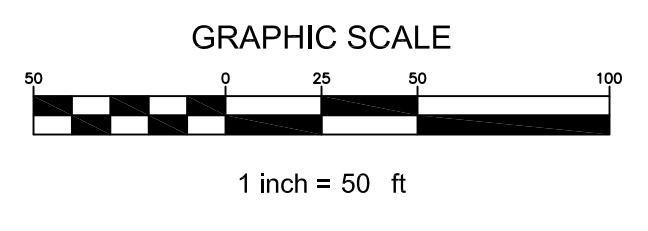
7007 N. 115TH STREET MILWAUKEE, WISCONSIN

CJE NO.: 1901R6  
 APRIL 12, 2019  
 REV. 06-24-19



LEGEND	
841	EXISTING CONTOUR
835	PROPOSED CONTOUR
x 836.5	PROPOSED ELEVATION
ST	EXISTING STORM SEWER
ST	PROPOSED STORM SEWER
○-○-○	PROPOSED SILT FENCE

- NOTES:**
- ALL PROPOSED SPOT GRADES ALONG THE CURB ARE AT THE BOTTOM OF CURB.
  - DISTURBED AREA = 950,000 S.F. 21.80 ACRES)



**SITE GRADING PLAN C2.0**

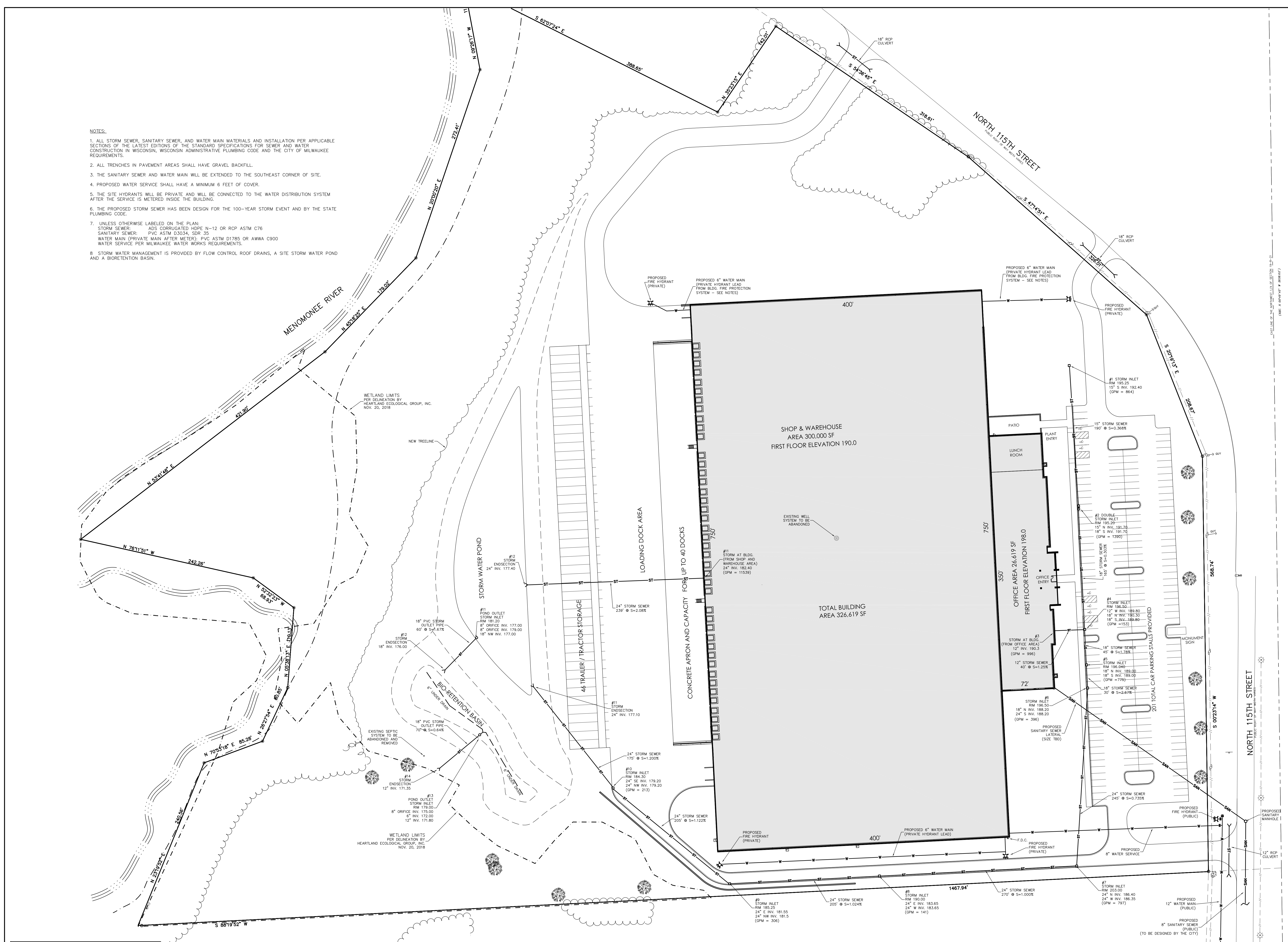


**WESTERN BUILDING PRODUCTS**  
 7007 N. 115TH STREET MILWAUKEE, WISCONSIN

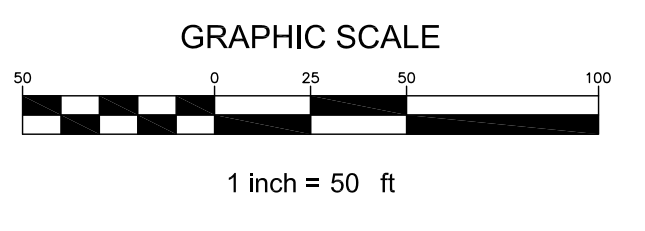
CJE NO.: 1901R6  
 APRIL 12, 2019  
 REV. 06-24-19

**SITE UTILITY PLAN C3.0**  
 SHEET 3 OF 5

- NOTES:**
1. ALL STORM SEWER, SANITARY SEWER, AND WATER MAIN MATERIALS AND INSTALLATION PER APPLICABLE SECTIONS OF THE LATEST EDITIONS OF THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, WISCONSIN ADMINISTRATIVE PLUMBING CODE AND THE CITY OF MILWAUKEE REQUIREMENTS.
  2. ALL TRENCHES IN PAVEMENT AREAS SHALL HAVE GRAVEL BACKFILL.
  3. THE SANITARY SEWER AND WATER MAIN WILL BE EXTENDED TO THE SOUTHEAST CORNER OF SITE.
  4. PROPOSED WATER SERVICE SHALL HAVE A MINIMUM 6 FEET OF COVER.
  5. THE SITE HYDRANTS WILL BE PRIVATE AND WILL BE CONNECTED TO THE WATER DISTRIBUTION SYSTEM AFTER THE SERVICE IS METERED INSIDE THE BUILDING.
  6. THE PROPOSED STORM SEWER HAS BEEN DESIGN FOR THE 100-YEAR STORM EVENT AND BY THE STATE PLUMBING CODE.
  7. UNLESS OTHERWISE LABELED ON THE PLAN:  
 STORM SEWER: ADS CORRUGATED HOPE N-12 OR RCP ASTM C76  
 SANITARY SEWER: PVC ASTM D3034, SDR 35  
 WATER MAIN (PRIVATE MAIN AFTER METER): PVC ASTM D1785 OR ANWA C900  
 WATER SERVICE PER MILWAUKEE WATER WORKS REQUIREMENTS.
  8. STORM WATER MANAGEMENT IS PROVIDED BY FLOW CONTROL ROOF DRAINS, A SITE STORM WATER POND AND A BIORETENTION BASIN.



LEGEND	
	EXISTING STORM SEWER
	PROPOSED STORM SEWER
	EXISTING SANITARY SEWER
	PROPOSED SANITARY SEWER
	EXISTING WATER MAIN
	PROPOSED WATER MAIN
	BURIED GAS MAIN
	OVER HEAD WIRE
	BURIED ELECTRIC



**SITE UTILITY PLAN C3.0**

**CONSTRUCTION SCHEDULE**

1. OBTAIN PLAN APPROVAL AND OTHER APPLICABLE PERMITS.
2. FLAG THE WORK LIMIT AND BUFFER AREA FOR PROTECTION.
3. INSTALL SEDIMENT BASINS INCLUDING STANDPIPES AND OUTLET PIPES. SEED AND MAT. UTILIZE DEWATERING BAGS AS NECESSARY FOR DEWATERING.
4. INSTALL SILT FENCE.
5. INSTALL CONSTRUCTION EXIT
6. DEMO SITE IN AREA OF SEDIMENT BASIN (POND)
7. STRIP TOPSOIL AND STOCKPILE, SURROUND WITH SILT FENCE.
8. INSTALL SEDIMENT BASIN & DRAINING SWALE(TO THE NORTH)-OVER EXCAVATE POND. DEWATER AS NECESSARY.
9. DEMO SITE. REMOVE MATERIAL FROM SITE.
10. STRIP TOPSOIL FROM REST OF SITE. STOCKPILE AND SURROUND WITH SILT FENCE.
11. ROUGH GRADE SITE.
12. BEGIN BUILDING CONSTRUCTION.
13. INSTALL PROPOSED UTILITIES.
14. INSTALL OUTLET PROTECTION.
15. INSTALL INLET GRATE SCREENS IN ALL NEW STORM INLETS.
16. PROVIDE IMMEDIATE TEMPORARY STABILIZATION (EXAMPLE: TEMPORARY SEEDING) OF ANY DISTURBED AREAS WHICH WILL REMAIN INACTIVE FOR A PERIOD EXCEEDING 14 DAYS.
17. INSTALL CURB AND BASE COURSE OF PAVEMENT.
18. FINAL GRADE BIORETENTION BASIN INCLUDING INTALSALING DRAIN TILE AND STONE AND ENGINEERED SOIL LAYERS.
19. FINAL GRADE SLOPES AND TOPSOIL CRITICAL SLOPES; VEGETATE AND MAT ALL DISTURBED AREAS.
20. ALL EROSION CONTROL PRACTICES WILL BE INSPECTED WEEKLY AND AFTER RAINFALL. NEEDED REPAIRS WILL BE PERFORMED IMMEDIATELY.
21. AFTER SITE IS STABILIZED, REMOVE ALL TEMPORARY MEASURES AND VEGETATE THE DISTURBED AREAS.
22. ESTIMATED TIME BEFORE FINAL STABILIZATION - 12 MONTHS.

**MAINTENANCE PLAN**

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY 1/2" RUNOFF-PRODUCTION RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.
2. SEDIMENT WILL BE REMOVED FROM BEHIND THE SILT FENCE WHEN IT BECOMES ABOUT 0.5 FT DEEP AT THE FENCE. THE SILT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER.
3. ALL SEEDED AREAS WILL BE WATERED, FERTILIZED, RESEEDED AS NECESSARY, AND MULCHED TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER.
4. ANY SEDIMENT REACHING A PUBLIC OR PRIVATE ROAD SHALL BE REMOVED BY STREET CLEANING BEFORE THE END OF EACH DAY.

**SITE DEWATERING**

PORTIONS OF THE SITE HAS HIGH GROUND WATER SO DEWATERING IS ANTICIPATED. DEWATERING ENCOUNTERED ON THE SITE SHALL BE DISCHARGED TO A TYPE II GEOTEXTILE BAG (PER WDR TECHNICAL STANDARD 1061). DEWATERING PUMP RATE SHALL NOT EXCEED 70 GPM. DEWATERING TO CONFORM WITH WDR CONSERVATION PRACTICE STANDARD 1055. UNTREATED DISCHARGE SHALL NOT BE ALLOWED TO FLOW OVER UNPROTECTED GROUND. IN NO CASE SHALL PUMPED WATER BE DIVERTED OUTSIDE THE PROJECT LIMITS PRIOR TO SEDIMENT REMOVAL.

**PRESCRIPTIVE COMPLIANCE AREAS:**

PER WDR NR151.11 WS. ADM. CODE  
MAXIMUM PERIOD OF BARE SOIL EXPOSURE FOR SLOPES EXCEEDING 20%

SLOPE AREA DRAINS TO SEDIMENT BASIN OR SEDIMENT TRAP	MAXIMUM PERIOD OF BARE SOIL EXPOSURE (CALENDER DAYS)	
	LAND DISTURBANCE BETWEEN SEPT. 16TH AND MAY 1ST	LAND DISTURBANCE BETWEEN MAY 2ND AND SEPT. 15TH
YES	90	90
NO	60	30

**TEMPORARY COVER:**

DURING GROWING SEASON:

TEMPORARY SEEDING DATES

- OATS - 4/1-9/1
  - ANNUAL RYEGRASS - 4/1-9/1
  - WINTER WHEAT - 8/1-10/1
  - WINTER CEREAL RYE - 8/1-10/15
- (FOR TEMPORARY COVER SEED AT 131# PER ACRES)

DURING NON-GROWING SEASON:

AREAS THAT ARE INACTIVE DURING SUCH SEASON MUST BE STABILIZED WITH ANIONIC POLYACRYLAMIDE (POLYMER). SEE WDR TECHNICAL STANDARD 1050.

**LEGEND**

- 84.1 EXISTING CONTOUR
- 83.5 PROPOSED CONTOUR
- x 836.5 PROPOSED ELEVATION
- ST EXISTING STORM SEWER
- ST PROPOSED STORM SEWER
- PROPOSED SILT FENCE

**NOTES:**

1. DISTURBED AREA = 950.00 S.F. (21.80 ACRES)

**EROSION CONTROL PRACTICES SCHEDULE**

- 1 SILT FENCE
- 2 CONSTRUCTION EXIT
- 3 INLET PROTECTION
- 4 OUTLET PROTECTION
- 5 EROSION MAT
- 6 SEDIMENT BASIN
- 7 TOP SOIL STOCK PILE

**EROSION MATTING**

FOR FINAL STABILIZATION, PROVIDE CLASS I, TYPE B EROSION MAT PER 'WISDOT EROSION CONTROL PAL' IN ALL SWALES AND ON ALL SLOPES 5:1 OR GREATER

INSTALL PER MANUFACTURERS SPECIFICATIONS.

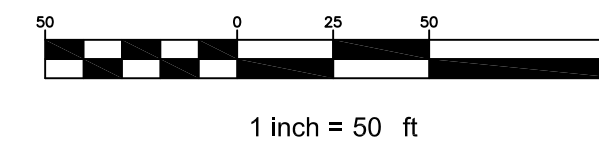


**WESTERN BUILDING PRODUCTS**

7007 N. 115TH STREET MILWAUKEE, WISCONSIN

CJE NO.: 190196  
APRIL 12, 2019  
REV. 06-24-19

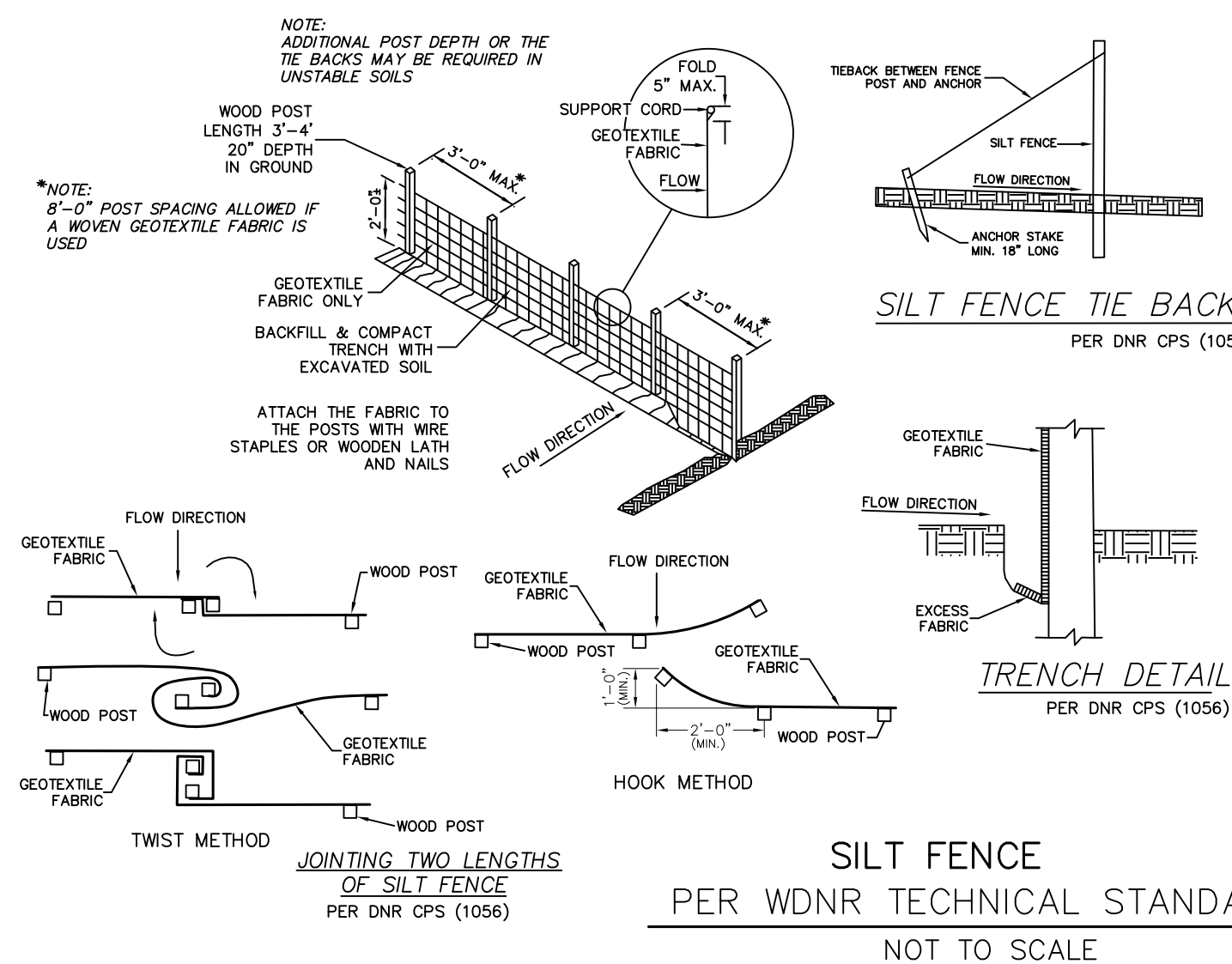
GRAPHIC SCALE



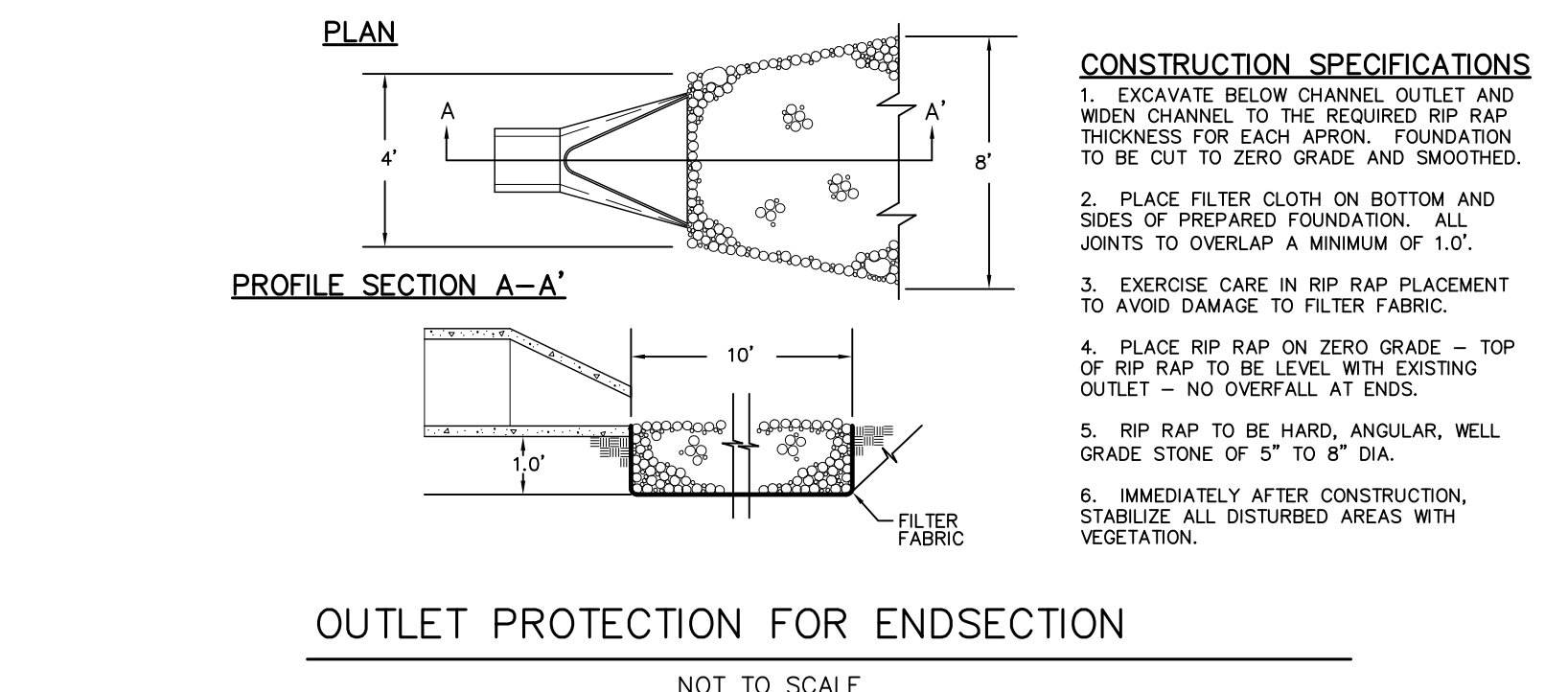
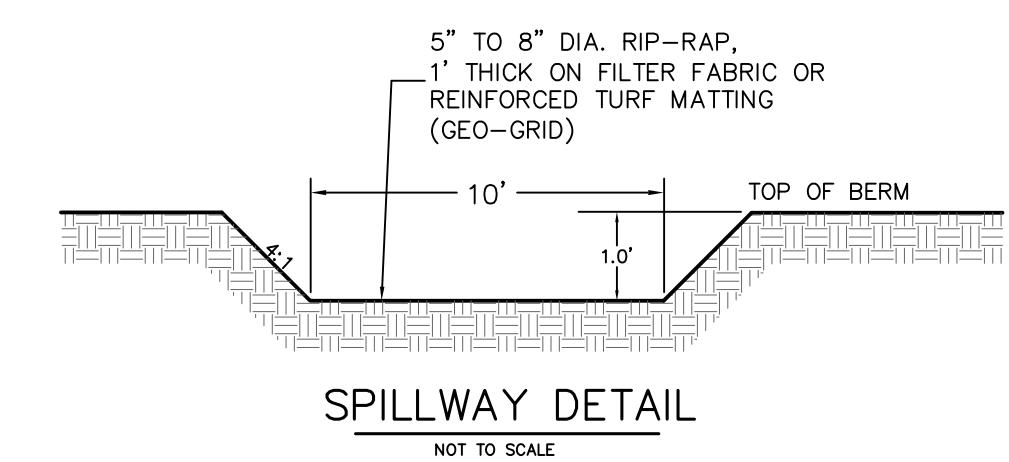
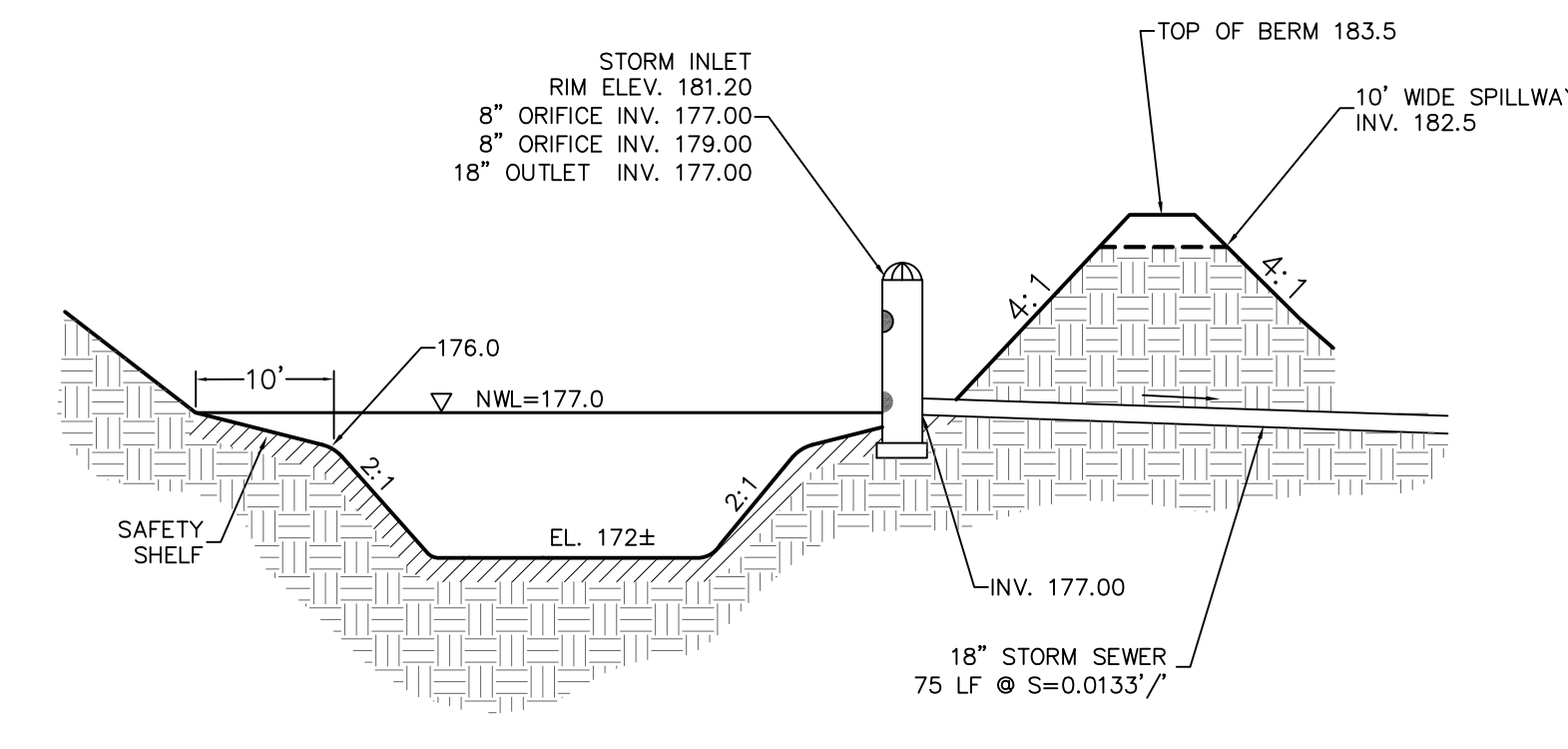
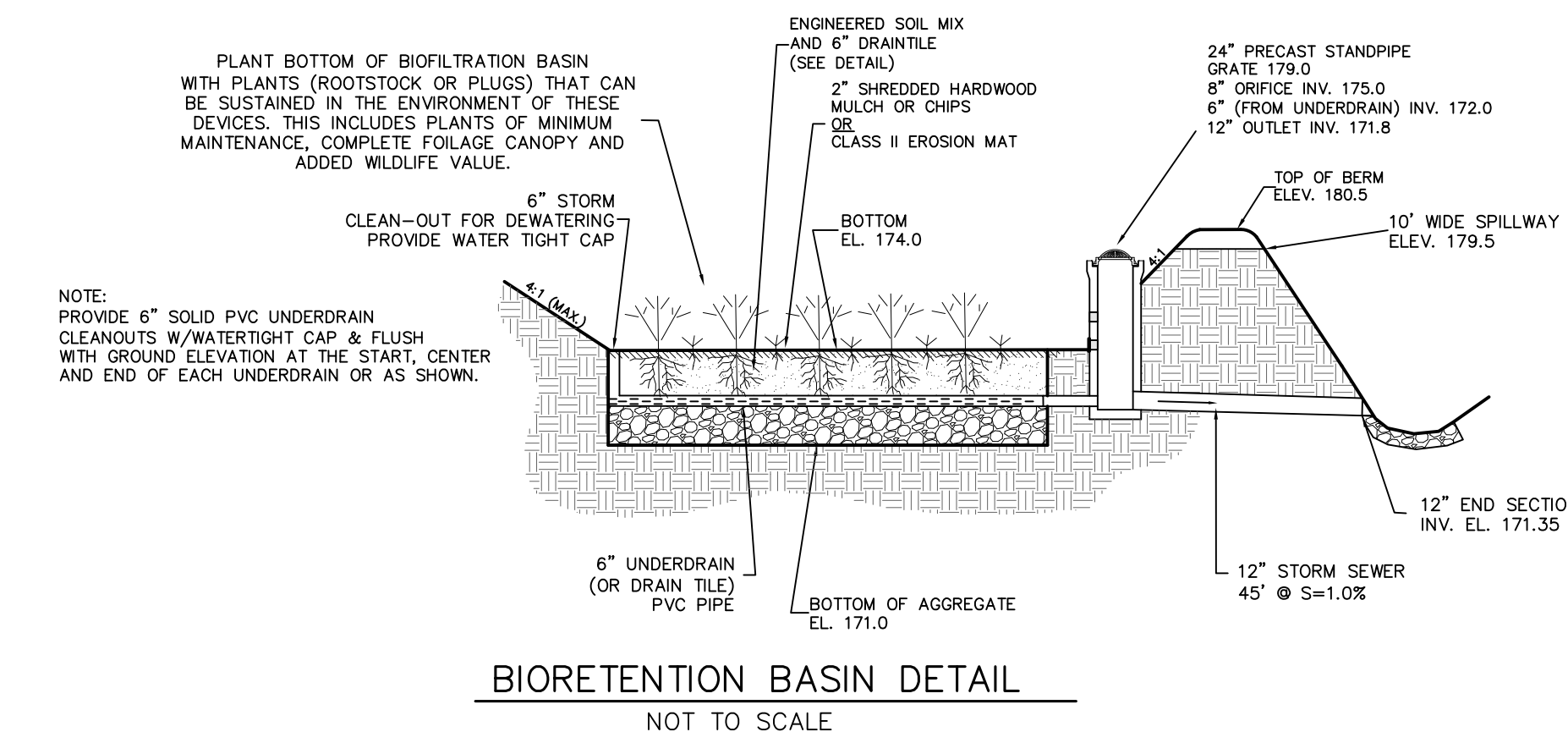
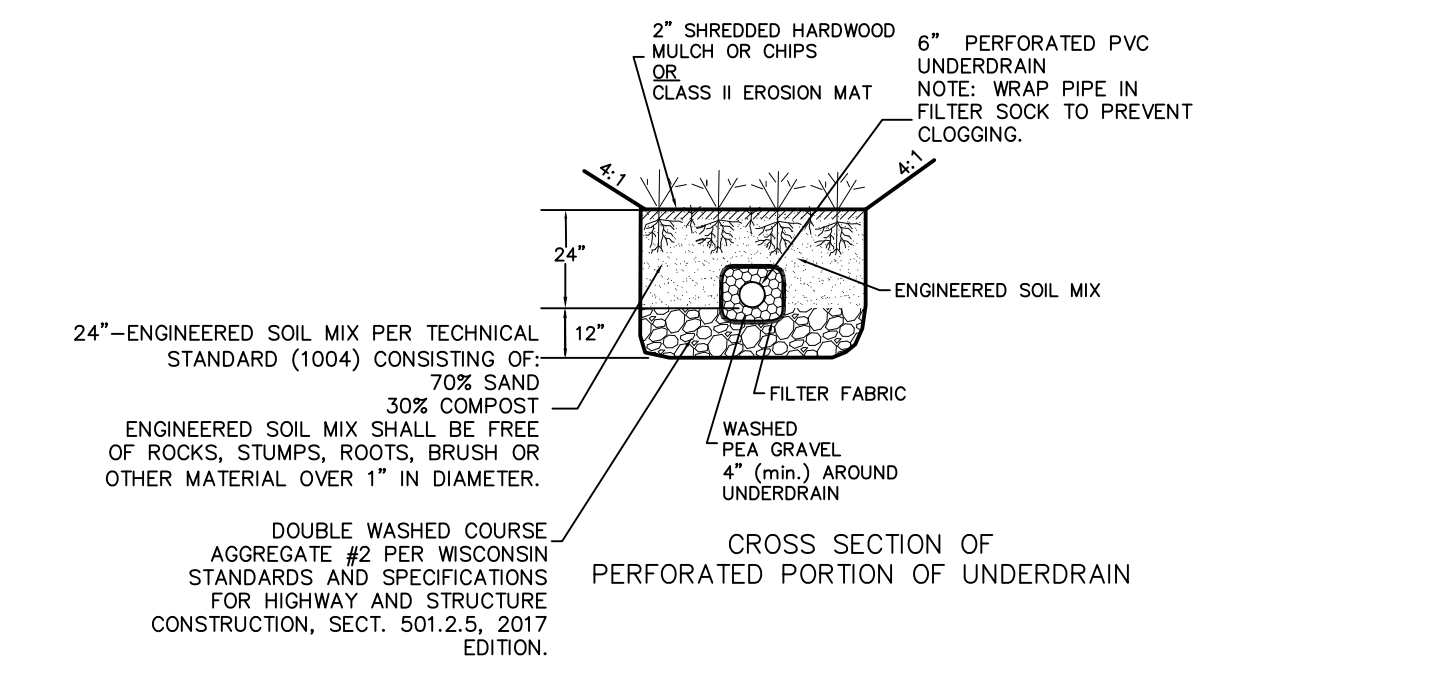
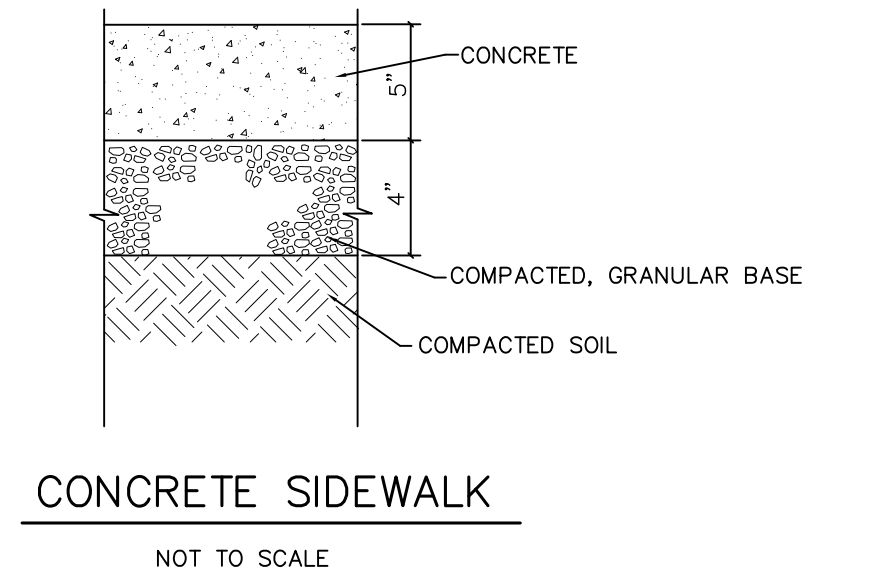
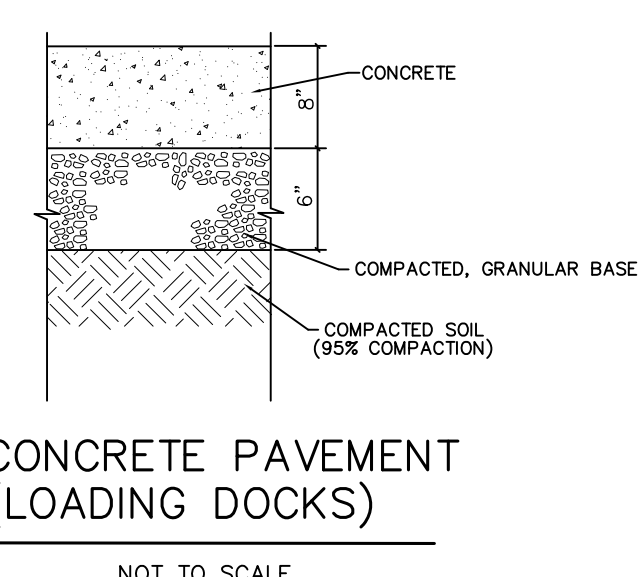
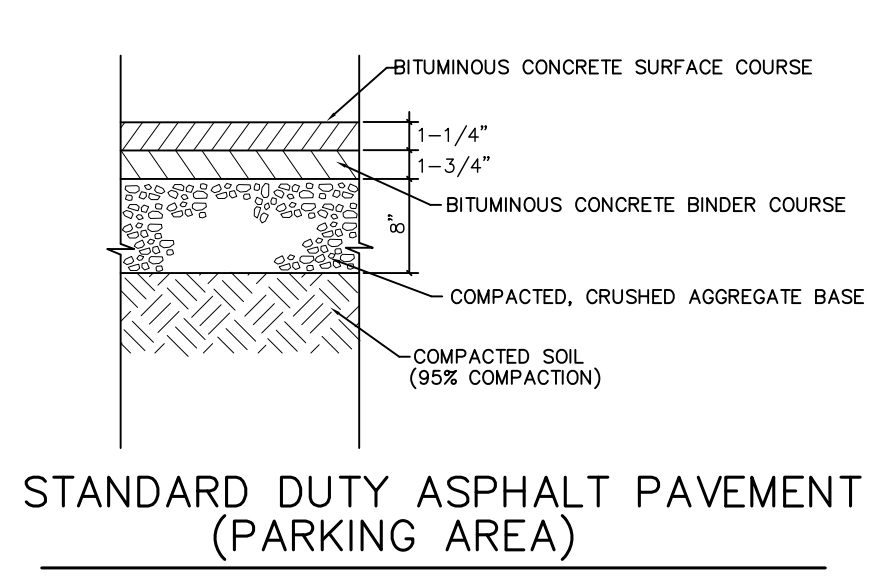
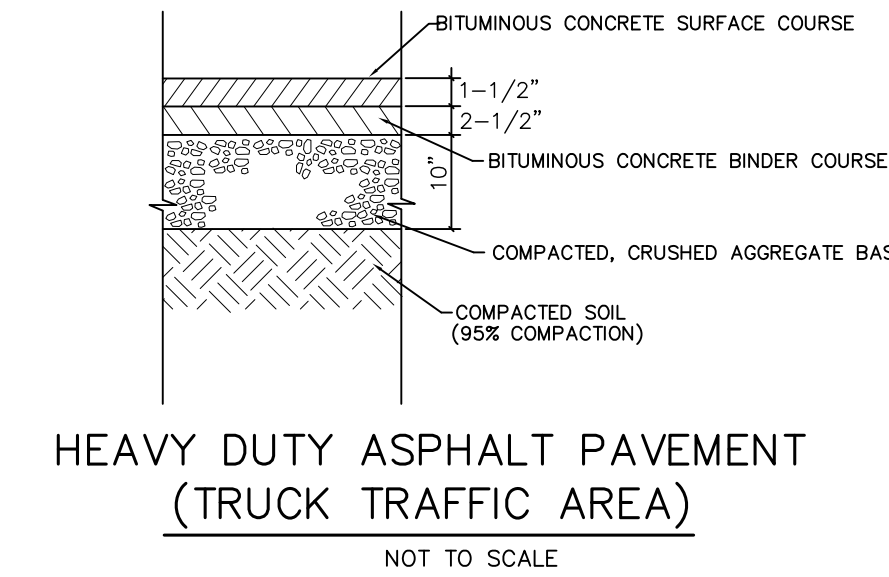
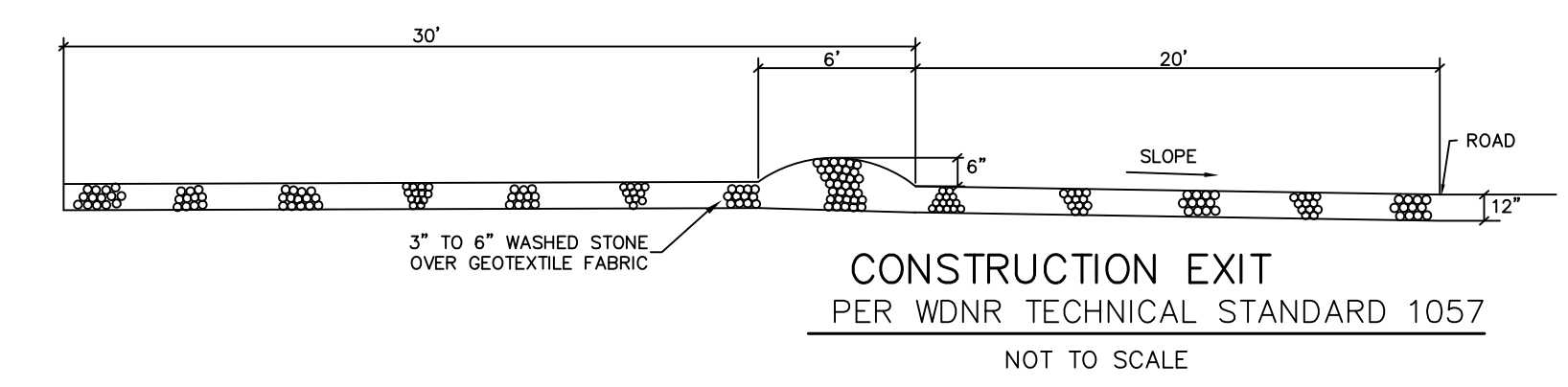
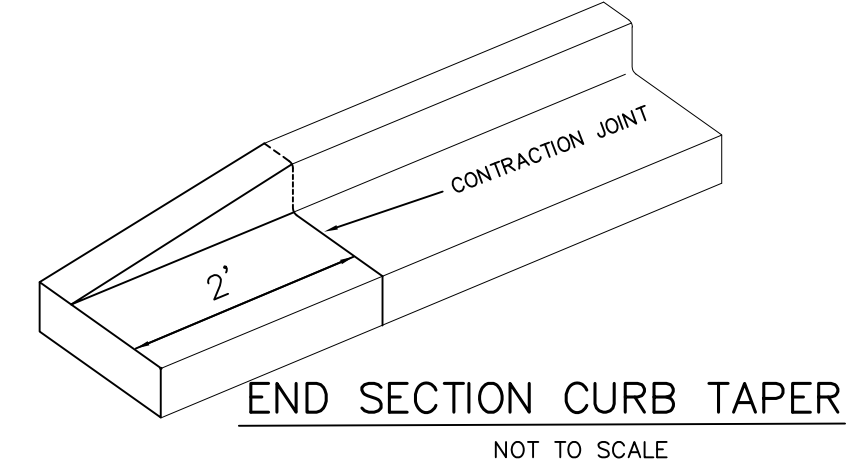
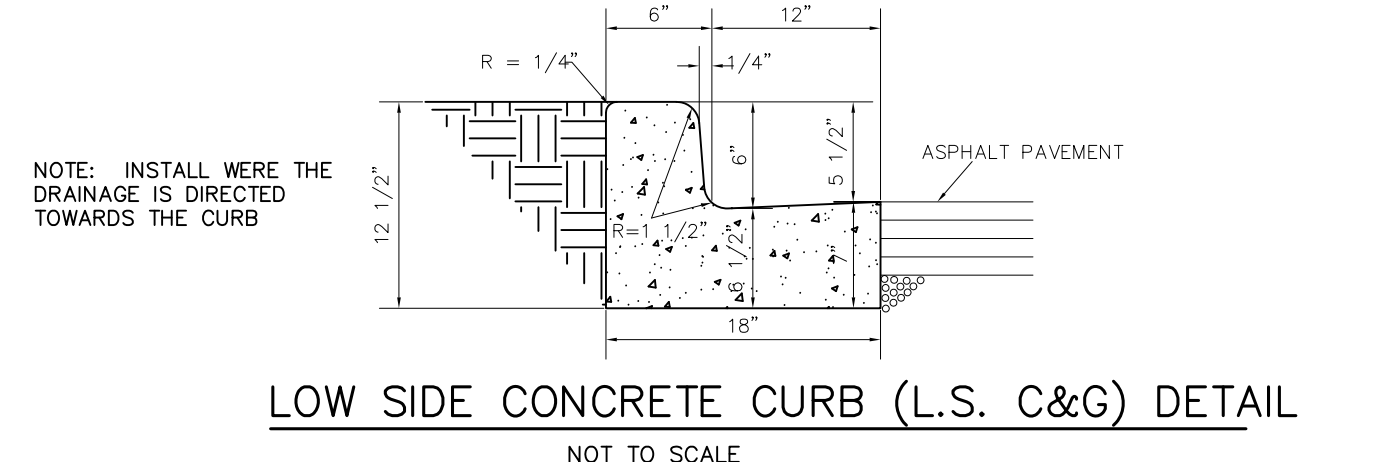
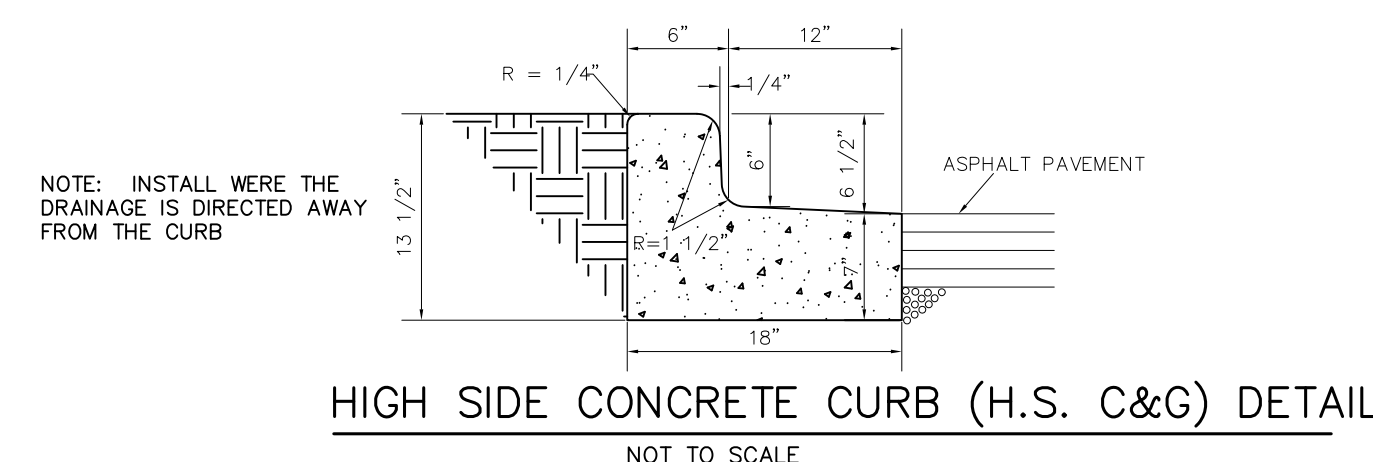
**EROSION CONTROL PLAN**

**C4.0**

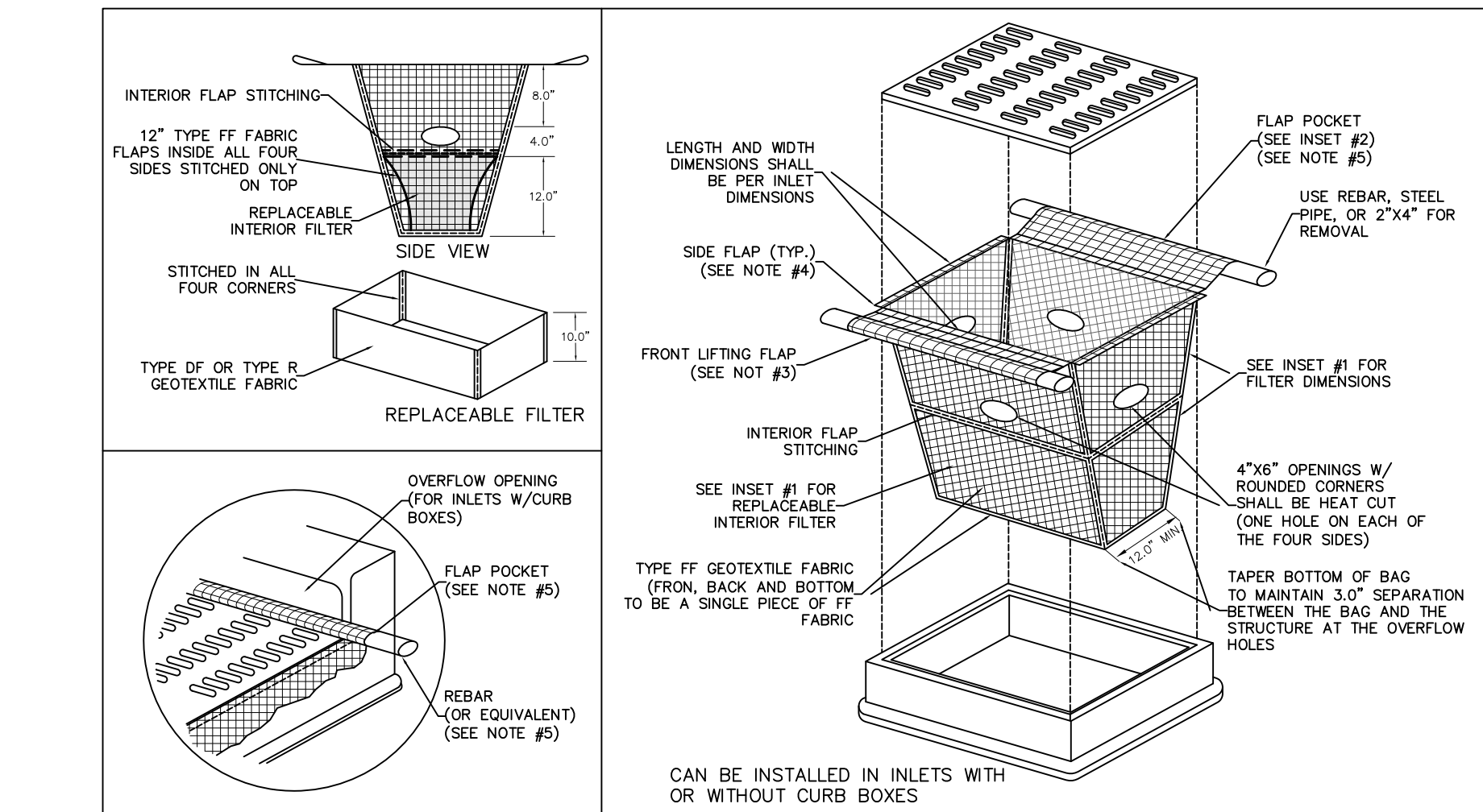
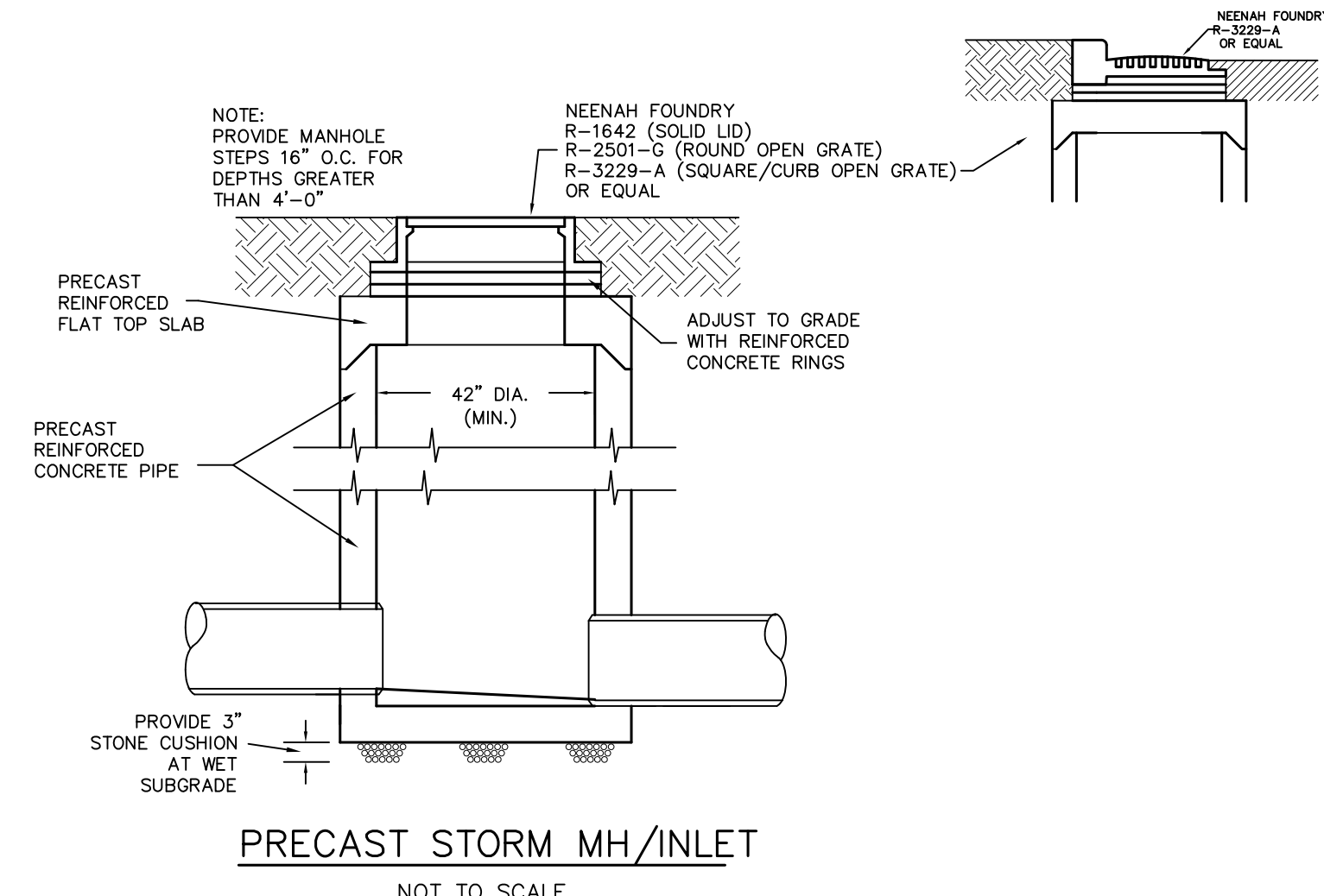
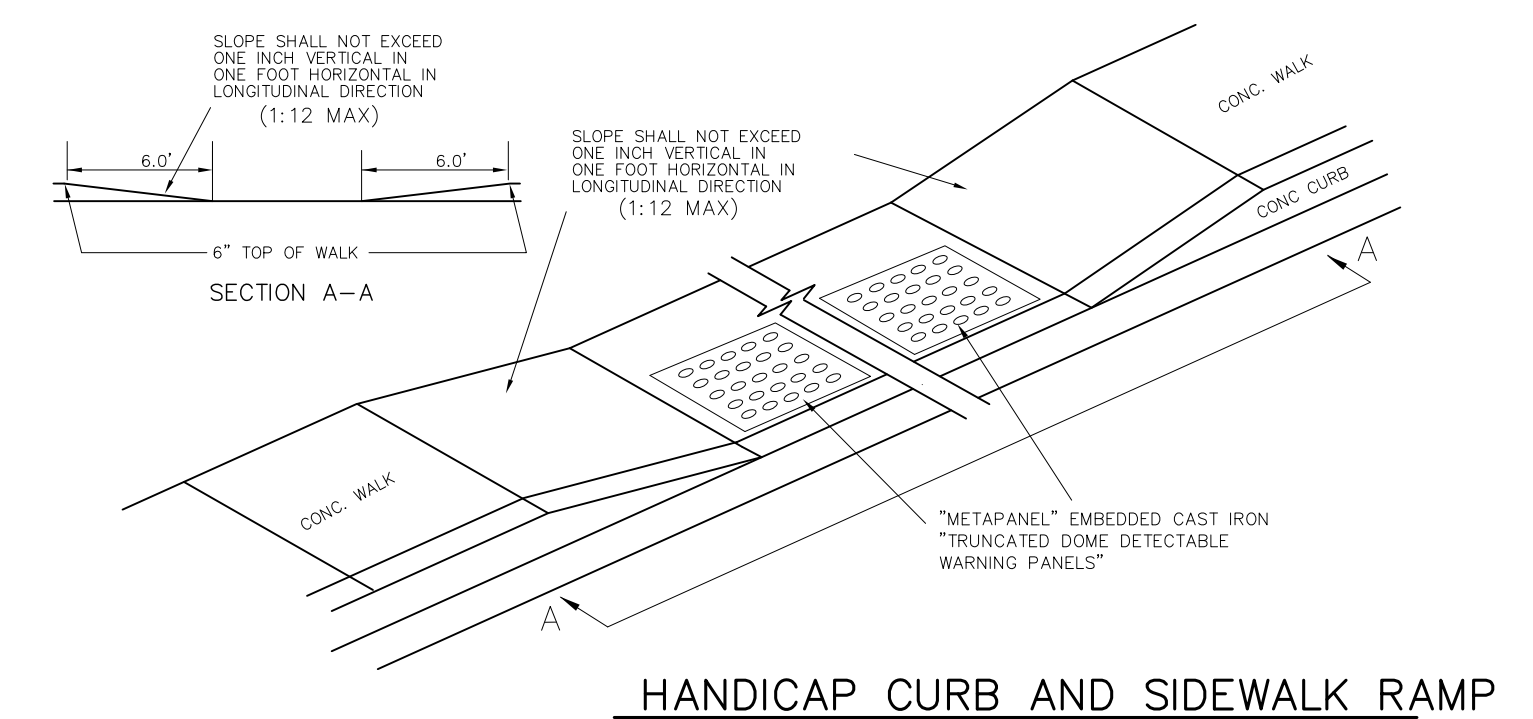
SHEET 4 OF 5



- SILT FENCE CONSTRUCTION SPECIFICATIONS**  
 PER DNR CPS (1056)
- Construction of silt fence around the disturbed areas as shown on Erosion Control Plan, to prevent sediment from being washed into the drainage system.
  - Locate posts per DNR CPS (1056)
  - When joints are necessary, refer to DNR CPS (1056)
  - Filter fabric to be of nylon, polyester, polypropylene or similar spun with wet weight = 50 LB/100 sq. yd. (Minimum) and with a flow rate of at least 0.3 gal./sq. ft./min. Fabric should contain ultraviolet ray inhibitors and stabilizers.
  - The filter fabric shall be anchored by greening at least 6 inches of fabric in a 2' x 8' trench.
  - The filter fabric shall be stapled and/or nailed to the upslope side of the posts.
  - Post to be 1 1/2" x 1 1/2" Hickory or oak, 3 feet long, spaced a maximum of 3 feet apart.
  - Use wire reinforcement in unstabilized minor swales, ditches or diversions.
  - Use WisDOT approved silt fence.



- CONSTRUCTION SPECIFICATIONS**
- EXCAVATE BELOW CHANNEL OUTLET AND WOOD CHANNEL TO THE REQUIRED RIP RAP THICKNESS FOR EACH APRON. FOUNDATION TO BE CUT TO ZERO GRADE AND SMOOTHED.
  - PLACE FILTER CLOTH ON BOTTOM AND SIDES OF PREPARED FOUNDATION. ALL JOINTS TO OVERLAP A MINIMUM OF 10'.
  - EXERCISE CARE IN RIP RAP PLACEMENT TO AVOID DAMAGE TO FILTER FABRIC.
  - PLACE RIP RAP ON ZERO GRADE - TOP OF RIP RAP TO BE LEVEL WITH EXISTING OUTLET - NO OVERFALL AT ENDS.
  - RIP RAP TO BE HARD, ANGULAR, WELL GRADE STONE OF 2" TO 8" DIA.
  - IMMEDIATELY AFTER CONSTRUCTION, STABILIZE ALL DISTURBED AREAS WITH VEGETATION.



**WESTERN BUILDING PRODUCTS**  
 7007 N. 115TH STREET MILWAUKEE, WISCONSIN



Project: Western Building Products  
Milwaukee, Wisconsin

Parcel Zoning:

**Perimeter Landscaping**

Street Frontage

Type A - Light Motor Vehicle Use

One (1) shade tree for every 25' of frontage.

2 staggered rows of shrubs, planted 4' on center.

Length of Street Frontage: 736 LF  
 Required Number of Trees: 29 Trees  
 Existing Trees to Remain: 7 Trees  
 Number of Proposed Trees: 22 Trees  
 Total Number of Trees Shown: 29 Trees

**Interior Parking Lot Landscaping\***

Two (2) shade trees & two shrubs for every 8 spaces.

5% of parking lot surface to be landscaped islands.

Section is exempt, if parking is not abutting to arterial or collector street.

Number of Parking Spaces: 207 Spaces  
 Required Number of Parking Lot Trees: 52 Trees  
 Number of Parking Lot Area Trees Shown: 14 Trees  
 Required Number of Parking Lot Shrubs: 52 Shrubs  
 Number of Parking Lot Area Shrubs Shown: 90 Shrubs

Area of Parking Lot Surface: 68,596 SF  
 Required Area of Landscaping: 3,430 SF  
 Area of Landscape Islands Shown: 2,605 SF

\*may be exempt for Light or Heavy Industrial Zoning

**CODE REQUIREMENTS**

**SHADE TREES (DECIDUOUS)**

- ABM Autumn Blaze Maple
- RPM Redpointe Maple
- CH Common Hackberry
- PPH Prairie Pride Hackberry
- SHL Skyline Honeylocust
- AGM Autumn Gold Maidenhair
- KCT Kentucky Coffee Tree
- SWO Swamp White Oak
- GSL Greenspire Linden
- VFE Valley Forge American Elm

**ORNAMENTAL TREES (DECIDUOUS)**

- ABS Autumn Brilliance Serviceberry
- TCH Thornless Cockspur Hawthorn
- JTL Ivory Silk Japanese Tree Lilac

**EVERGREEN TREES**

- NS Norway Spruce
- BHS Black Hills Spruce
- DFI Douglas Fir

**EVERGREEN SHRUBS**

- SGJ Sea Green Juniper
- KCPJ Kallay Compact Pfitzer Juniper
- Buj Buffalo Juniper

**DECIDUOUS SHRUBS**

- BRC Brilliant Red Chokeberry
- GD Gray Dogwood
- HC Peking (Hedge) Cotoneaster
- IH Incrediball Hydrangea
- LLH Little Lime Hydrangea
- UH Unique Hydrangea
- GLS Gro Low Fragrant Sumac
- KOSR Knock Out Shrub Rose
- AJAV Autumn Jazz Arrowwood Viburnum
- MV Mohican Viburnum
- WRW Wine & Roses Compact Wiegela

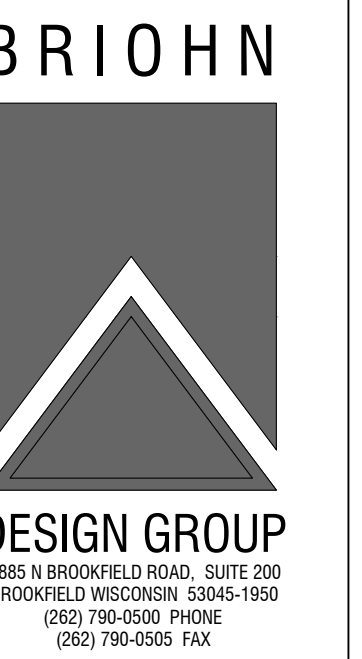
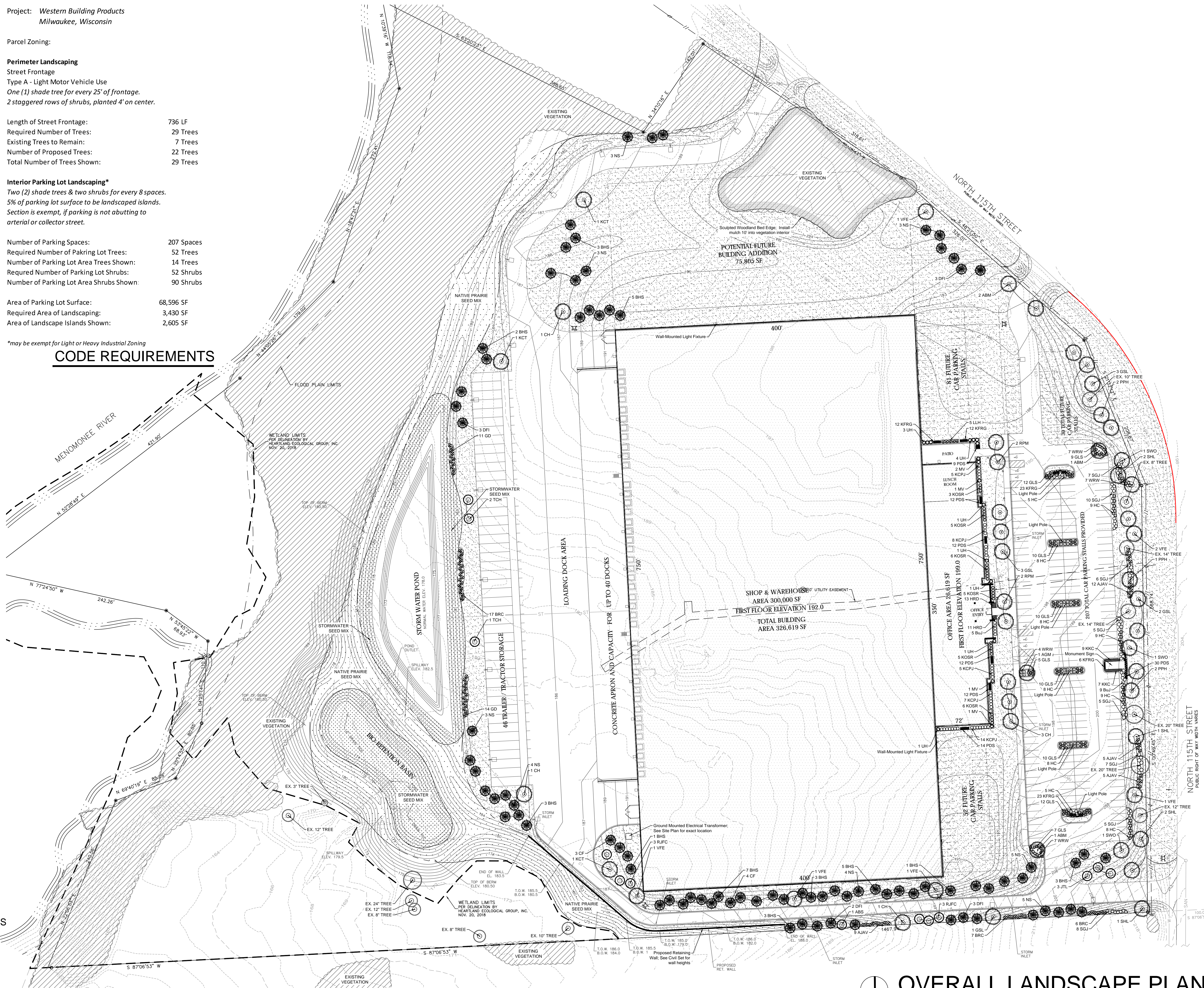
**ORNAMENTAL GRASSES**

- KFRG Karl Foerster Feather Reed Grass
- PDS Prairie Dropseed

**HERBACEOUS PERENNIALS**

- HRD Happy Returns Daylily
- KKC Dwarf Catmint

**PLANT ABBREVIATIONS**



**OVERALL LANDSCAPE PLAN**

**NEW BUILDING FOR:**  
 WESTERN BUILDING PRODUCTS  
 7007 N. 115TH STREET  
 MILWAUKEE, WI

PROGRESS SET  
 NOT FOR CONSTRUCTION

**OVERALL LANDSCAPE PLAN**  
 Scale: 1" = 50'0"

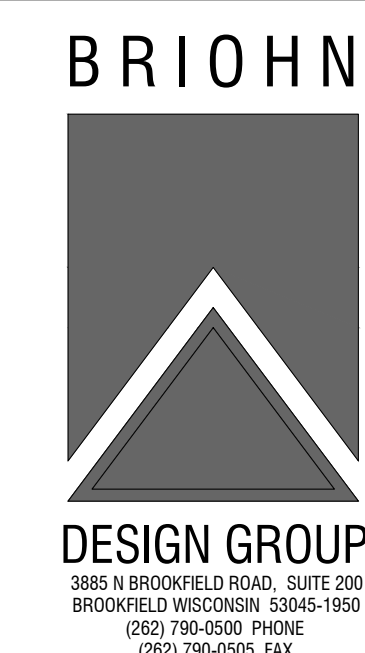


P.O. Box 1359  
 Lake Geneva, Wisconsin 53147-1359  
 ph 262.639.9733  
 david@wdavidheller.com  
 www.wdavidheller.com



JOB: 3111  
 DRAWN: PCA  
 CHECKED: WDH  
 DATE: 06-25-2019  
 SHEET: **L1.0**

APPLICABLE TO ALL PLAN VIEWS



**ENLARGED LANDSCAPE PLAN:  
PLAN: NORTHEAST**

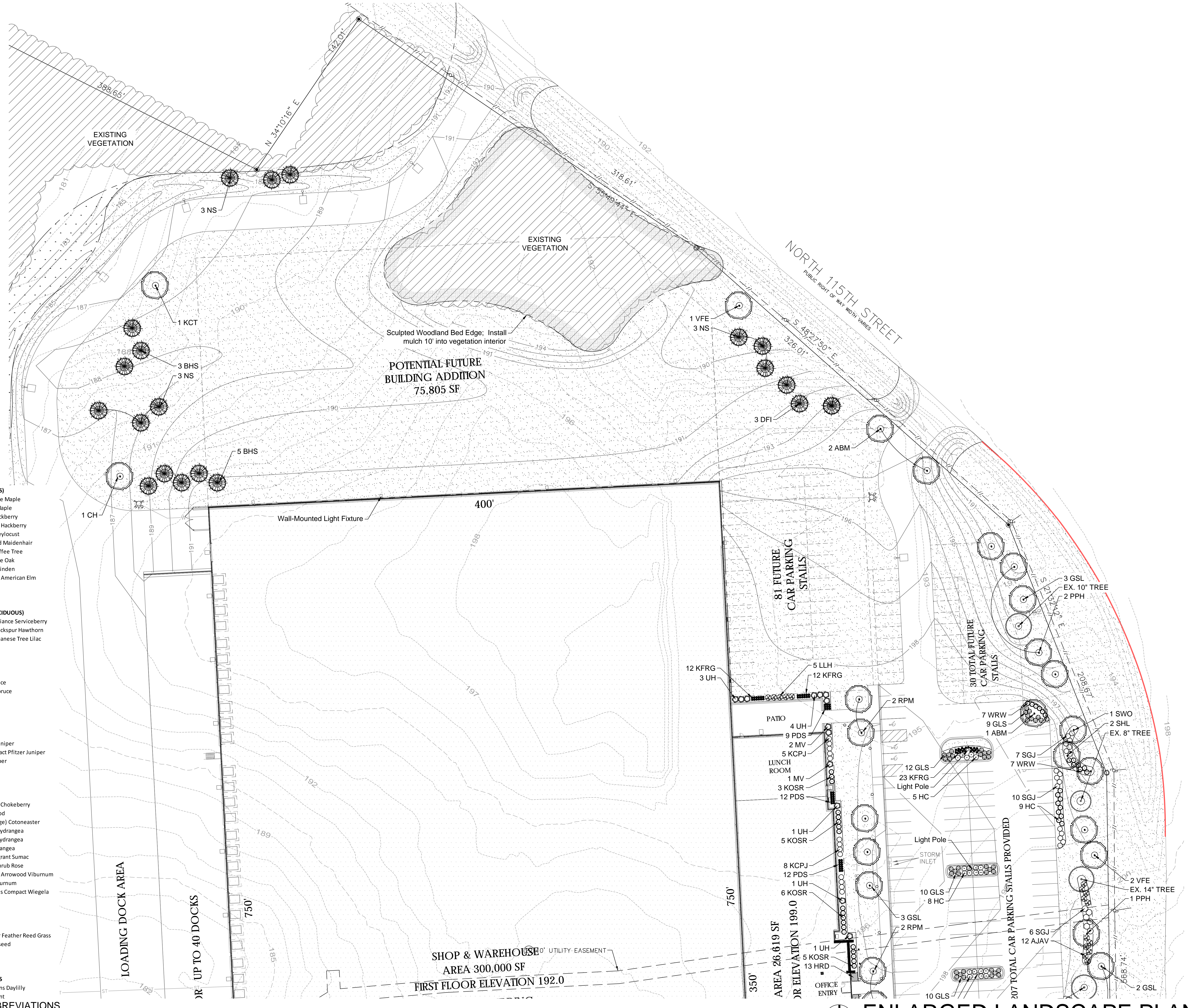
**NEW BUILDING FOR:  
WESTERN BUILDING PRODUCTS  
7007 N. 115TH STREET  
MILWAUKEE, WI**

PROGRESS SET  
NOT FOR CONSTRUCTION

JOB: 3111  
DRAWN: PCA  
CHECKED: WDH  
DATE: 06-25-2019  
SHEET:

**L1.1**

APPLICABLE TO ALL PLAN VIEWS



- SHADE TREES (DECIDUOUS)**
- ABM Autumn Blaze Maple
  - RPM Redpointe Maple
  - CH Common Hackberry
  - PHH Prairie Pride Hackberry
  - SHL Skyline Honeylocust
  - AGM Autumn Gold Maidenhair
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  - SWO Swamp White Oak
  - GSL Greenspire Linden
  - VFE Valley Forge American Elm

- ORNAMENTAL TREES (DECIDUOUS)**
- ABS Autumn Brilliance Serviceberry
  - TCH Thornless Cockspear Hawthorn
  - JTL Ivory Silk Japanese Tree Lilac

- EVERGREEN TREES**
- NS Norway Spruce
  - BHS Black Hills Spruce
  - DFI Douglas Fir

- EVERGREEN SHRUBS**
- SGJ Sea Green Juniper
  - KCPJ Kallay Compact Pfitzer Juniper
  - Bu Buffalo Juniper

- DECIDUOUS SHRUBS**
- BRC Brilliant Red Chokeberry
  - GD Gray Dogwood
  - HC Peking (Hedge) Cotoneaster
  - IH Incrediball Hydrangea
  - LLH Little Lime Hydrangea
  - UH Unique Hydrangea
  - GLS Gro Low Fragrant Sumac
  - KOSR Knock Out Shrub Rose
  - AJAV Autumn Jazz Arrowwood Viburnum
  - MV Mohican Viburnum
  - WRW Wine & Roses Compact Wiegela

- ORNAMENTAL GRASSES**
- KFRG Karl Foerster Feather Reed Grass
  - PDS Prairie Dropseed

- HERBACEOUS PERENNIALS**
- HRD Happy Returns Daylily
  - KKC Dwarf Catmint

**PLANT ABBREVIATIONS**



P.O. Box 1359  
Lake Geneva, Wisconsin 53147-1359  
ph 262.639.9733  
david@wdavidheller.com  
www.wdavidheller.com

**ENLARGED LANDSCAPE PLAN**  
Scale: 1" = 20'0"





- SHADE TREES (DECIDUOUS)**
- ABM Autumn Blaze Maple
  - RPM Redpointe Maple
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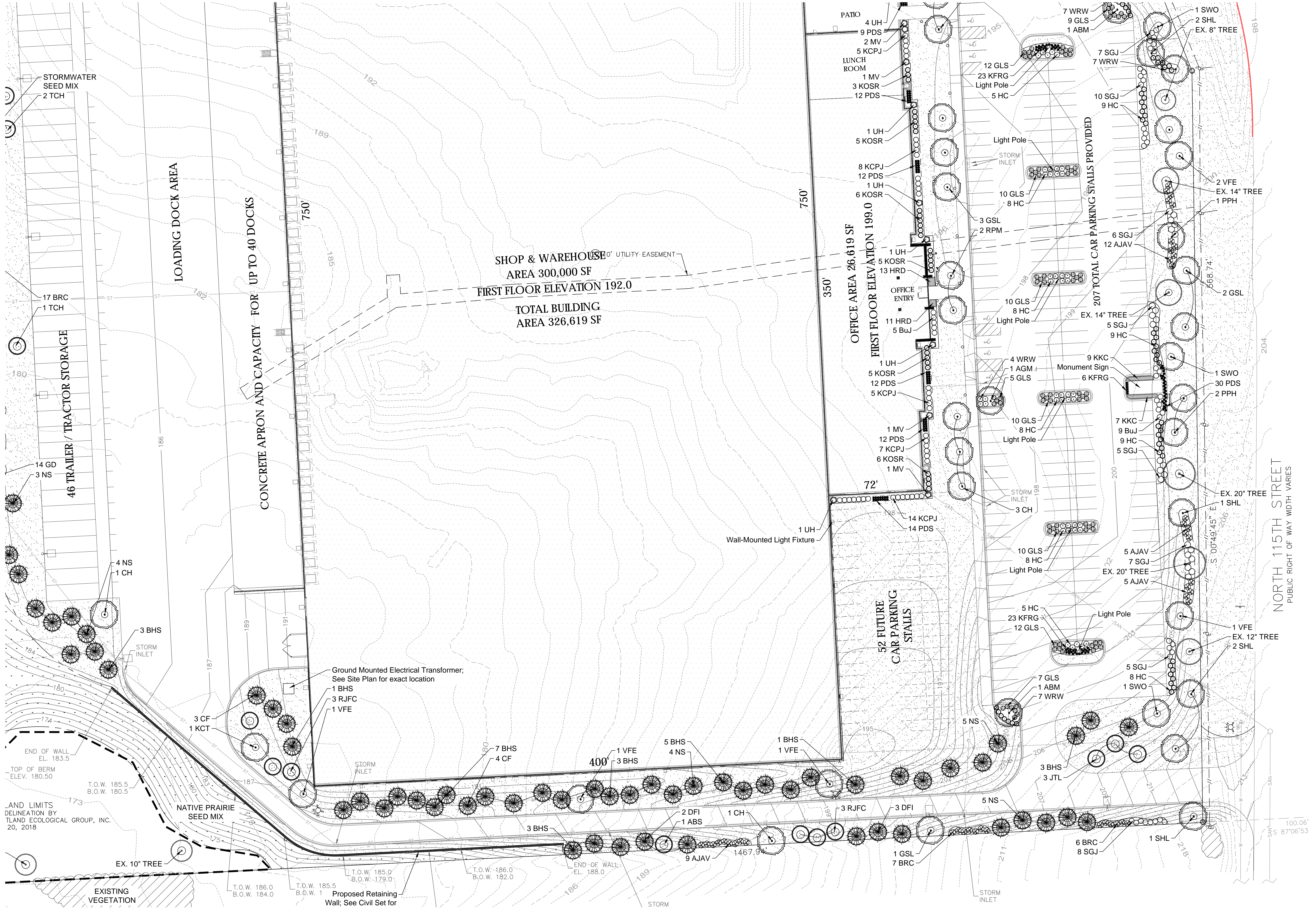
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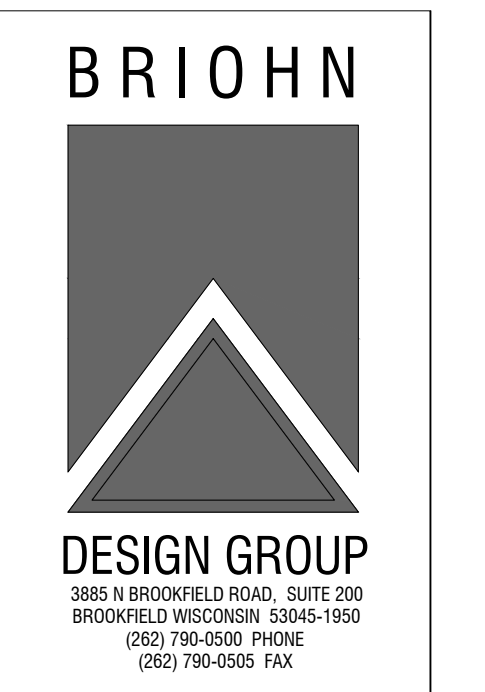
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**PLANT ABBREVIATIONS**



**ENLARGED LANDSCAPE PLAN**  
Scale: 1" = 20'0"



**ENLARGED LANDSCAPE PLAN: SOUTH**

**NEW BUILDING FOR:**  
WESTERN BUILDING PRODUCTS  
7007 N. 115TH STREET  
MILWAUKEE, WI

PROGRESS SET  
NOT FOR CONSTRUCTION

JOB:	3111
DRAWN:	PCA
CHECKED:	WDH
DATE:	06-25-2019
SHEET:	

**L1.2**



P.O. Box 1359  
Lake Geneva, Wisconsin 53147-1359  
ph 262.639.9733  
david@wdavheller.com  
www.wdavheller.com





- SHADE TREES (DECIDUOUS)**
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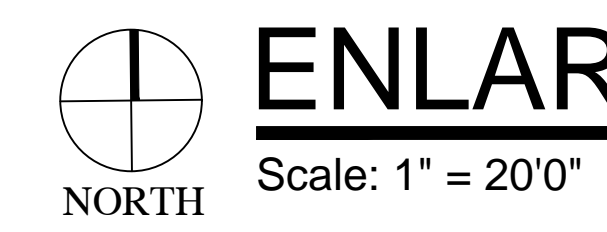
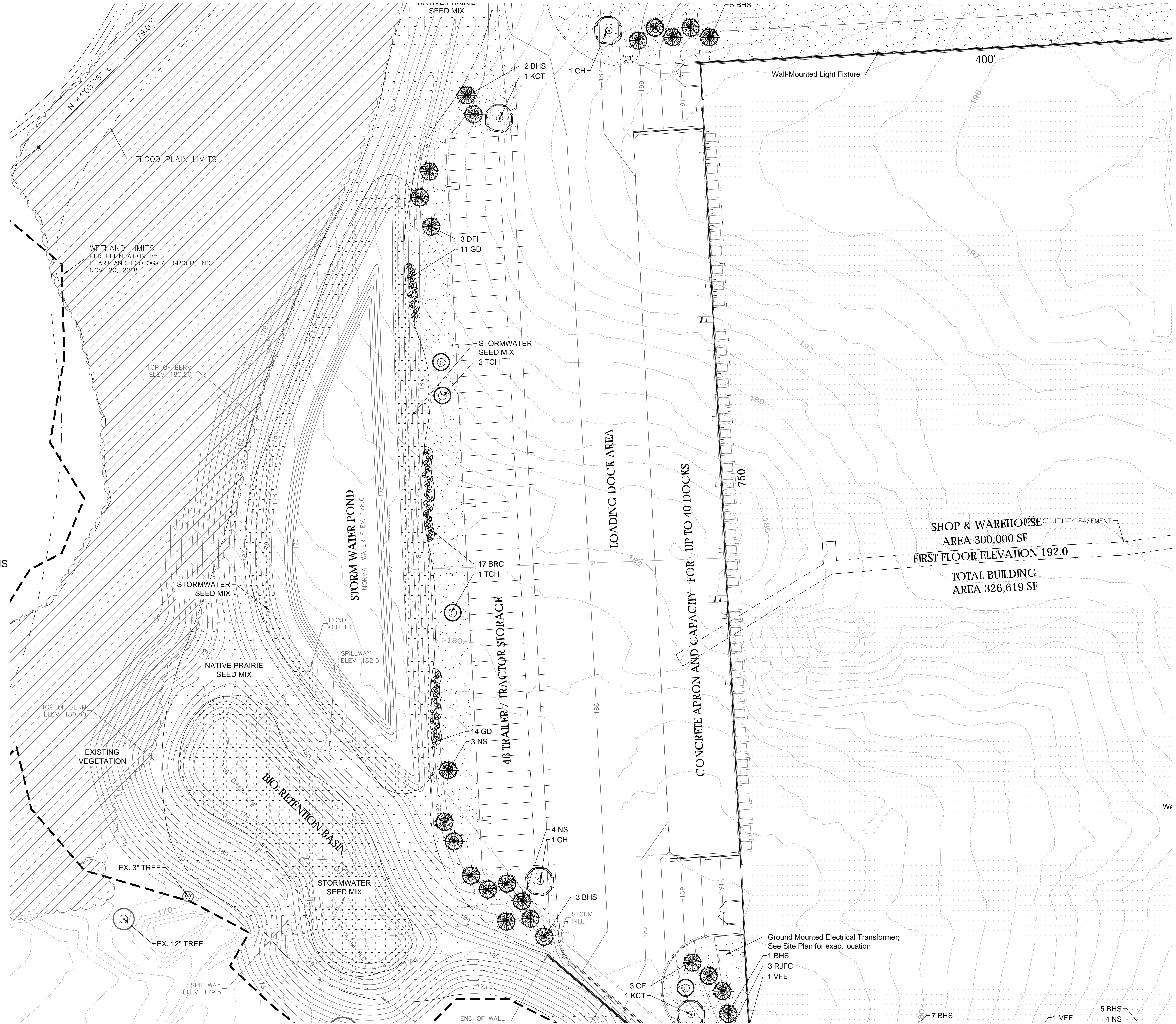
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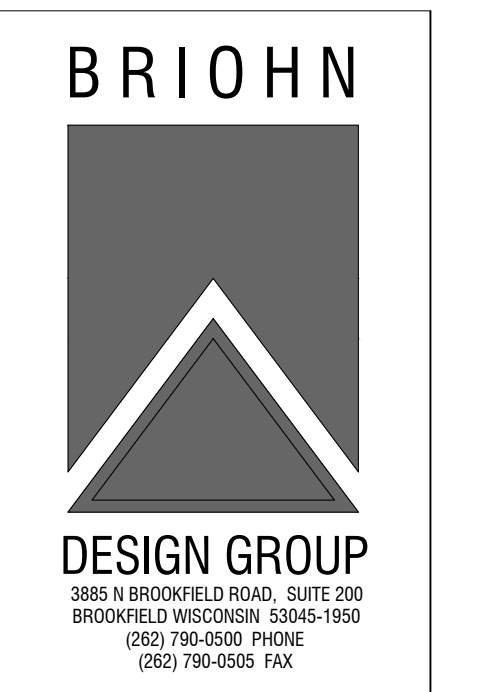
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  - PDS Prairie Dropseed

- HERBACEOUS PERENNIALS**
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  - KKC Dwarf Catmint

**PLANT ABBREVIATIONS**



**ENLARGED LANDSCAPE PLAN**



**ENLARGED LANDSCAPE PLAN: WEST**

**NEW BUILDING FOR:**  
**WESTERN BUILDING PRODUCTS**  
 7007 N. 115TH STREET  
 MILWAUKEE, WI

PROGRESS SET  
 NOT FOR CONSTRUCTION

JOB:	3111
DRAWN:	PCA
CHECKED:	WDH
DATE:	06-25-2019
SHEET:	

**L1.3**



P.O. Box 1359  
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 david@wdavidheller.com  
 www.wdavidheller.com







CARDNO / JF New, Inc.		
www.cardnojfnw.com	6140 Cottonwood Road	6605 Steger Road
128 Sunset Drive	Suite A	Suite A
Walkerton, Indiana 46574	Fitchburg, Wisconsin 53719	Monee, Illinois 60449
Ph: 574-586-3400	Ph: 608-661-2965	Ph: 708-534-3450
<b>Economy Prairie Seed Mix</b>		
Botanical Name	Common Name	PLS Ounces/Acre
<b>Permanent Grasses:</b>		
<i>Andropogon gerardii</i>	Big Bluestem	16.00
<i>Bouteloua curtipendula</i>	Side-Oats Gramma	18.00
<i>Carex bicknellii</i> / <i>Carex brevior</i>	Prairie Sedge Mix	1.00
<i>Elymus canadensis</i>	Canada Wild Rye	16.00
<i>Panicum virgatum</i>	Switch Grass	2.50
<i>Schizachyrium scaparium</i>	Little Bluestem	24.00
<i>Sorghastrum nutans</i>	Indian Grass	18.00
<b>Total</b>		<b>95.50</b>
<b>Temporary Cover:</b>		
<i>Avena sativa</i>	Common Oat	360.00
<i>Lolium multiflorum</i>	Annual Rye	100.00
<b>Total</b>		<b>460.00</b>
<b>Forbs:</b>		
<i>Asclepias syriaca</i>	Common Milkweed	0.50
<i>Asclepias tuberosa</i>	Butterfly Milkweed	1.00
<i>Aster lewisii</i>	Smooth Blue Aster	0.25
<i>Aster spaeo-anglicae</i>	New England Aster	0.75
<i>Chamaecrista fasciculata</i>	Partridge Pea	12.00
<i>Coreopsis lanceolata</i>	Sand Coreopsis	5.00
<i>Echinacea purpurea</i>	Broad-Leaved Purple Coneflower	7.50
<i>Helopsis helianthoides</i>	False Sunflower	0.25
<i>Lupinus perennis</i>	Wild Lupine	0.50
<i>Monarda fistulosa</i>	Wild Bergamot	0.25
<i>Pycnanthemum tenuifolium</i>	Common Mountain Mint	0.50
<i>Ratibida pinnata</i>	Yellow Coneflower	3.50
<i>Rudbeckia hirta</i>	Black-eyed Susan	8.00
<b>Total</b>		<b>40.00</b>

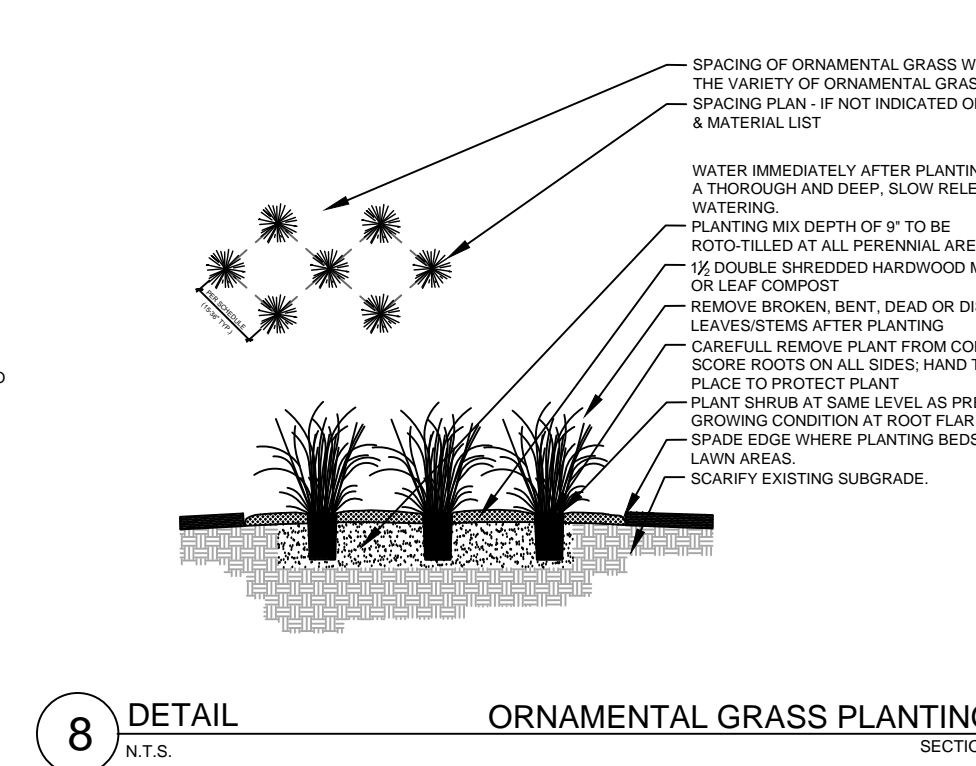
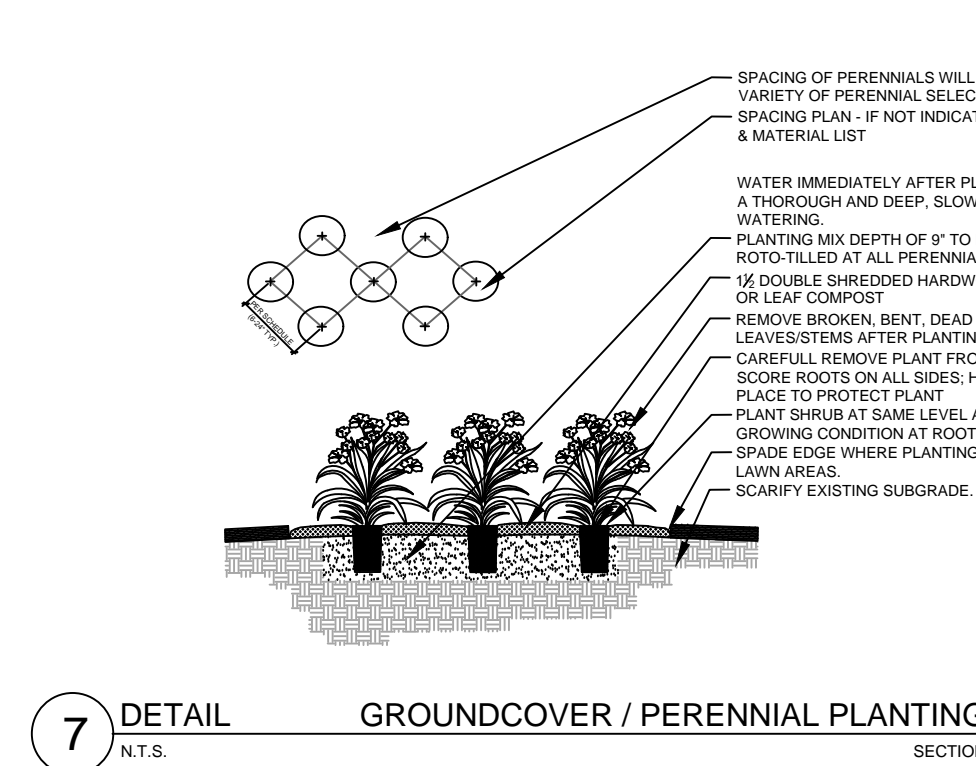
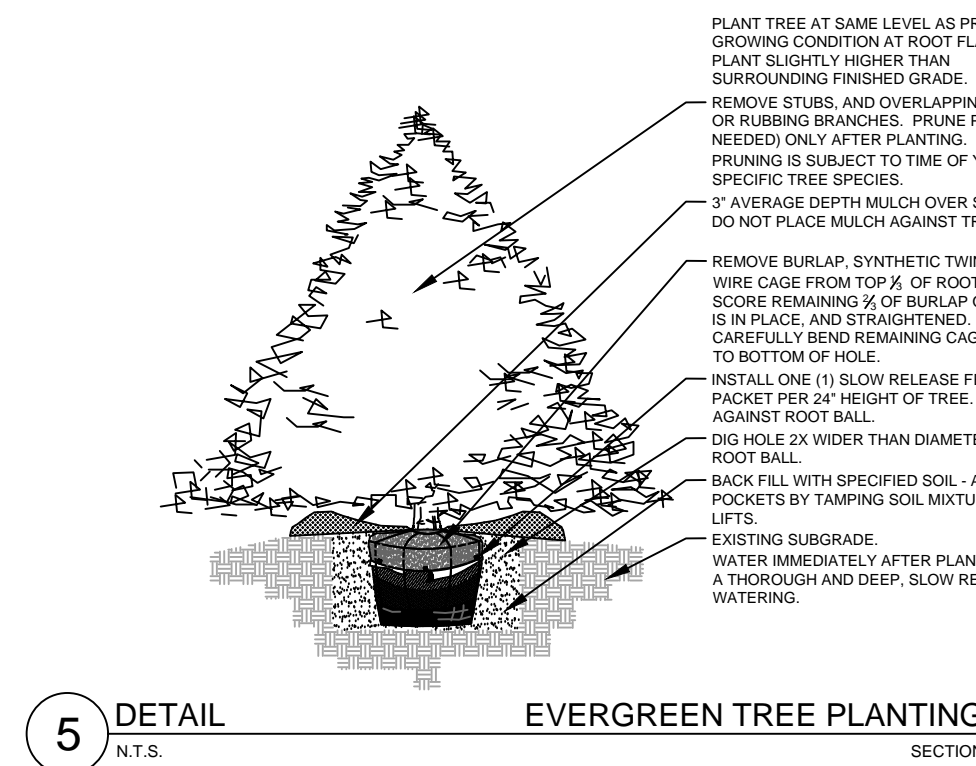
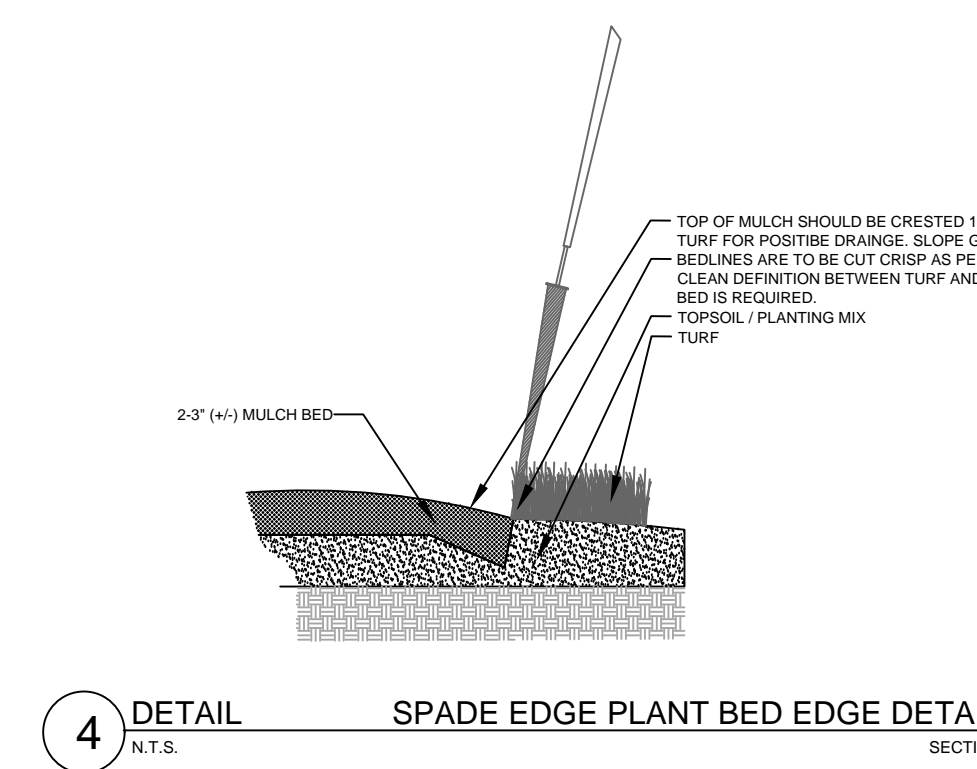
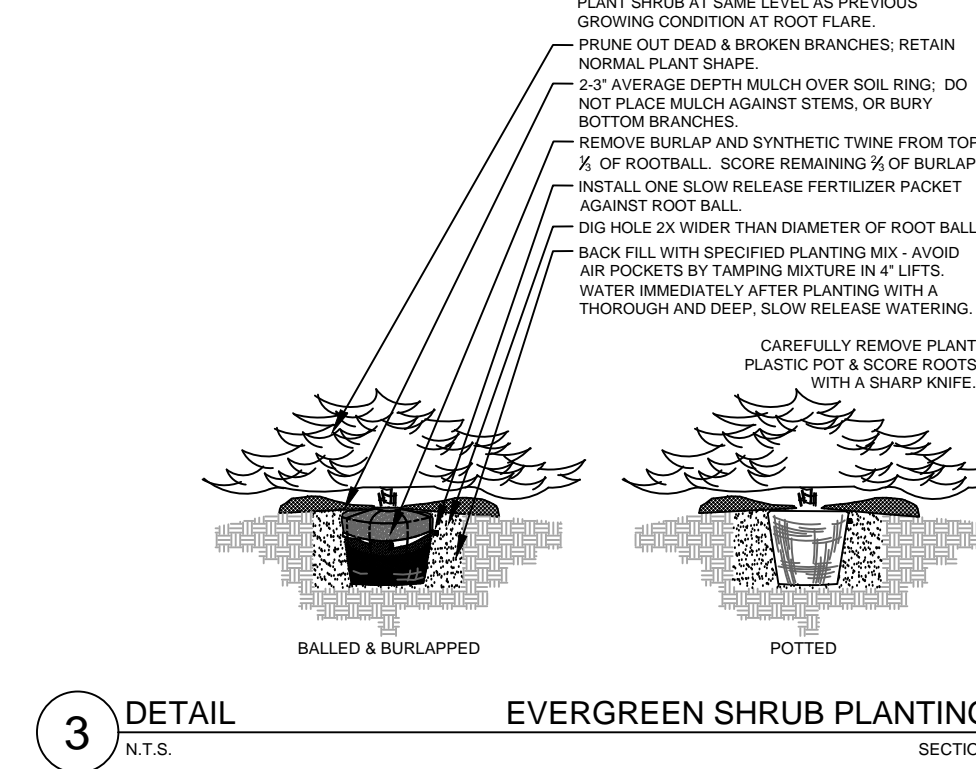
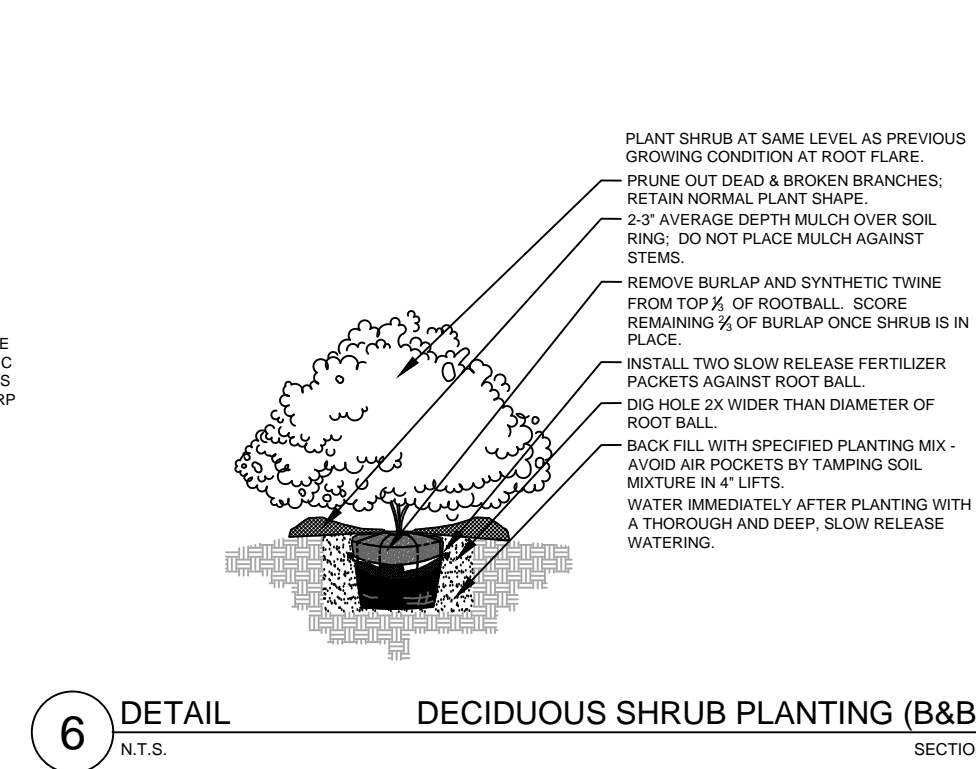
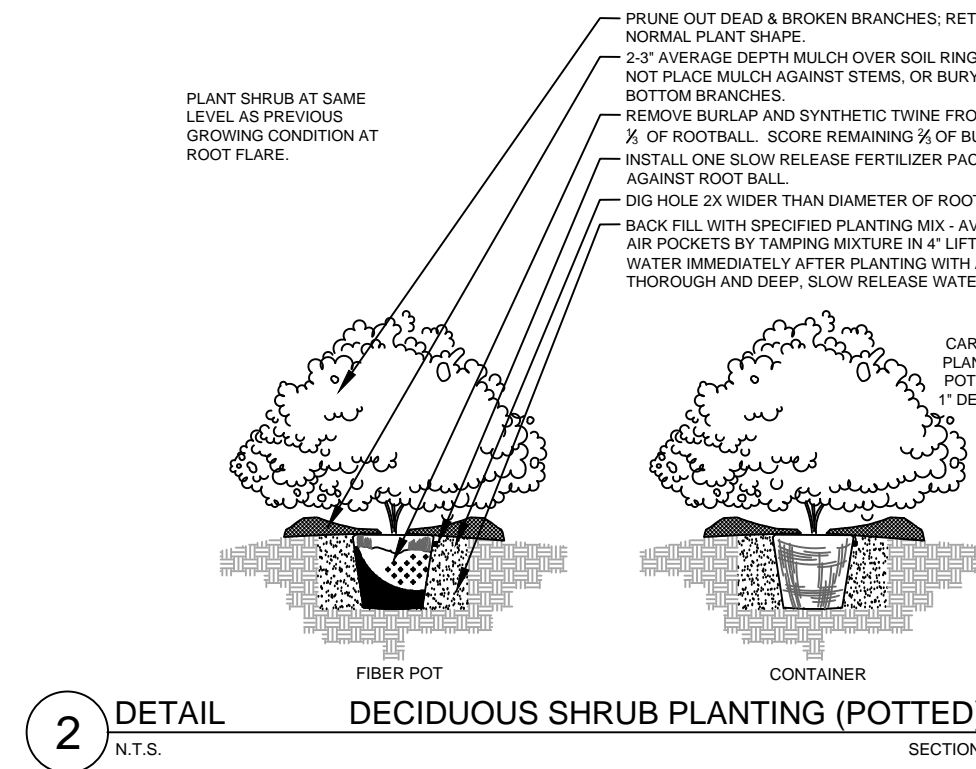
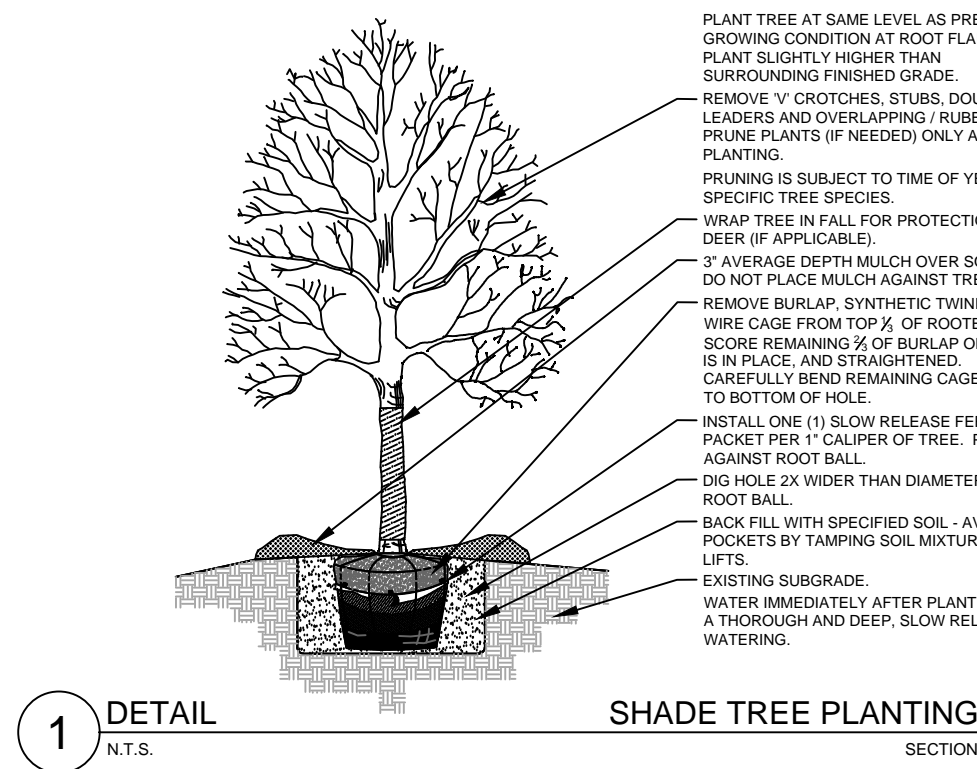
## NATIVE PRAIRIE SEED MIX

CARDNO / JF New, Inc.		
www.cardnojfnw.com	6140 Cottonwood Road	6605 Steger Road
128 Sunset Drive	Suite A	Suite A
Walkerton, Indiana 46574	Fitchburg, Wisconsin 53719	Monee, Illinois 60449
Ph: 574-586-3400	Ph: 608-661-2965	Ph: 708-534-3450

Stormwater Seed Mix		
For Use on Stormwater Management Ponds (SMP) side slopes to Normal Water Line (NWL)		
Botanical Name	Common Name	PLS Ounces/Acre
<b>Permanent Grasses/Sedges/Rushes:</b>		
<i>Carex cristatella</i>	Crested Oval Sedge	1.00
<i>Carex frankii</i>	Bristly Cattail Sedge	1.00
<i>Carex lurida</i>	Bottlebrush Sedge	2.00
<i>Carex sparganioides</i> v. <i>cephaloides</i>	Rough-Clustered Sedge	2.00
<i>Carex vulpinoidea</i>	Brown Fox Sedge	6.00
<i>Eleocharis ovata</i>	Blunt Spike Rush	0.50
<i>Elymus virginicus</i>	Virginia Wild Rye	12.00
<i>Glyceria striata</i>	Fowl Manna Grass	1.25
<i>Juncus effusus</i>	Common Rush	1.00
<i>Juncus torreyi</i>	Torrey's Rush	0.25
<i>Leersia oryzoides</i>	Rice Cut Grass	1.00
<i>Panicum virgatum</i>	Switch Grass	2.00
<i>Scirpus atrovirens</i>	Dark Green Rush	1.00
<i>Scirpus cyperinus</i>	Wood Grass	0.50
<i>Scirpus fluviatilis</i>	River Bulrush	0.25
<i>Scirpus validus</i>	Great Bulrush	6.00
<b>Total</b>		<b>45.75</b>
<b>Temporary Cover:</b>		
<i>Avena sativa</i>	Common Oat	360.00
<i>Lolium multiflorum</i>	Annual Rye	115.00
<b>Total</b>		<b>476.00</b>
<b>Forbs:</b>		
<i>Ailoma</i> spp.	Water Plantain (Various Mix)	4.25
<i>Asclepias incarnata</i>	Swamp Milkweed	1.50
<i>Bidens</i> spp.	Bidens (Various Mix)	2.00
<i>Helenium autumnale</i>	Sneezeweed	3.00
<i>Mimulus ringens</i>	Monkey Flower	1.00
<i>Penthorum sedoides</i>	Ditch Stonecrop	0.50
<i>Polygonum pennsylvanicum</i>	Pinkweed	4.00
<i>Rudbeckia subtomentosa</i>	Sweet Black-Eyed Susan	1.00
<i>Sagittaria latifolia</i>	Broad-Leaf Arrowhead	1.00
<i>Senna hebecarpa</i>	Wild Senna	1.00
<i>Thalictrum dasycarpum</i>	Purple Meadow Rue	2.00
<b>Total</b>		<b>21.25</b>

Approximate area of coverage:	
Total area (SF) of coverage surrounding SWM ponds:	32,900
Total area (acres) of coverage surrounding SWM ponds:	0.76

## STORMWATER SEED MIX



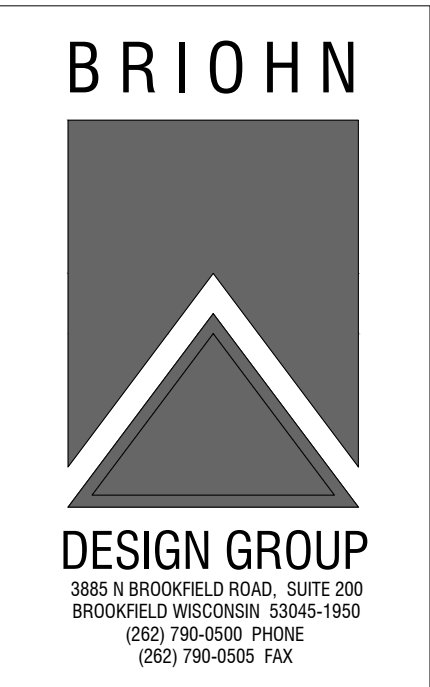
## PLANT & MATERIAL SCHEDULE

- Contractor responsible for contacting Diggers Hotline (811 or 800-242-8511) to have site marked prior to excavation or planting.
- Contractor to verify all plant quantities shown on Plant & Material List and landscape planting symbols and report any discrepancies to Landscape Architect or General Contractor.
- All plantings shall comply with standards as described in American Standard of Nursery Stock - Z60.1 ANSI (latest version). Landscape Architect reserves the right to inspect, and potentially reject any plants that are inferior, compromised, undersized, diseased, improperly transported, installed incorrectly or damaged. Non-sub-standard "B Grade" or "Park Grade" plant material shall be accepted. Plant material shall originate from nursery(ies) with a similar climate as the planting site.
- Any potential plant substitutions must be approved by Landscape Architect or Owner. All plants must be installed as per sizes indicated on Plant & Material Schedule, unless approved by Landscape Architect. Any changes to sizes shown on plan must be submitted in writing to the Landscape Architect prior to installation.
- Topsoil in Parking Lot Islands (if applicable): All parking lot islands to be backfilled with topsoil to a minimum depth of 18" to insure long-term plant health. Topsoil should be placed within 3' of finish grade by General Contractor / Excavation Contractor during rough grading operations/activity. The landscape contractor shall be responsible for the fine grading of all disturbed areas, planting bed areas, and lawn areas. Crown all parking lot islands a minimum of 6" to provide proper drainage, unless otherwise specified.
- Tree Planting: Plant all trees slightly higher than finished grade at the root flare. Remove excess soil from the top of the root ball, if needed. Remove and discard non-biodegradable ball wrapping and support wire. Removed biodegradable burlap and wire cage (if present) from the top 1/3 of the rootball and carefully bend remaining wire down to the bottom of the hole. Once the tree has been placed into the hole and will no longer be moved, score the remaining 2/3 of the burlap and remove the twine. Provide three slow release fertilizer for each tree planted.
- Tree Planting: Backfill tree planting holes 80% existing soils removed from excavation and 20% plant starter mix. Avoid air pockets and do not tamp soil down. Discard any gravel, rocks, heavy clay, or concrete pieces. When hole is 3/4 full, trees shall be watered thoroughly, and water left to soak in before proceeding to fill the remainder of the hole. Water again to full soak in the new planting. Each tree shall receive a 3" deep, 4-5' diameter (see planting details or planting plan) shredded hardwood bark mulch ring around all trees planted in lawn areas. Do not build up any mulch onto the trunk of any tree. Trees that are installed incorrectly will be replaced at the time and expense of the Landscape Contractor.
- Shrub Planting: All shrubs to be planted in groupings as indicated on the Landscape Plan. Install with the planting of shrubs a 50% mix of plant starter with topsoil. Install topsoil into all plant beds as needed to achieve proper grade and displace undesirable soil (see planting detail). Remove all excessive gravel, clay and stones from plant beds prior to planting. When hole(s) are 3/4 full, shrubs shall be watered thoroughly, and water left to soak in before proceeding. Provide slow-release fertilizer packets at the rate of 1 per 24" height/diameter of shrub at planting.
- Mulching: All tree and shrub planting beds to receive a 3" deep layer of high quality shredded hardwood bark mulch (not pigment dyed or enviro-mulch). All perennial planting areas (groupings) shall receive a 2" layer of shredded hardwood bark mulch, and groundcover areas a 1-2" layer of the same mulch. Do not plant annual flower beds (if applicable). Do not allow mulch to contact plant stems and tree trunks.
- Edging: All planting beds shall be edged with a 4" deep spade edge using a flat landscape spade or a mechanical edger. Bedlines are to be cut crisp, smooth as per plan. A clean definition between landscape beds and lawn is required. Pack mulch against lawn edge to hold in place.
- Plant bed preparation/Soil Amendment composition: All perennial, groundcover and annual areas (if applicable) are required to receive a blend of organic soil (Soil Amendments) amendments prior to installation. Roto-till the following materials at the following ratio, into existing soil beds or installed topsoil beds to a depth of approximately 8"-10". Containerized and balled & burlapped plant material should be back-filled with amended soil:
  - Per 100 SF of bed area (Soil Amendment composition):
    - 3/4 CY Peat Moss or Mushroom Compost
    - 1/2 CY blended/pulverized Topsoil
    - 1/2 CY composted manure
  - In roto-tilled beds only, also include in above mixture:
    - 2 lbs Starter Fertilizer

- Lawn Installation for all sodded turfgrass areas: Contractor to furnish and prepare blended topsoil (2" minimum) and sod bed, removing all debris and stones 1/2" and larger. Apply a 10-10-10 starter lawn fertilizer uniformly throughout areas prior to laying sod. Use only premium sod blend according to TPI (revised 1995) and ASPA Standards. Install sod uniformly with staggered joints, laid tightly end to end and side to side. Roll sod with a walk behind roller and water immediately upon installation to a 3" depth. Stake any sod installed on slopes steeper than 1:3, and in all swale applications. Contractor is responsible to provide a smooth, uniform, healthy turf, and is responsible for the first two mowings of the newly installed turf, and is also responsible for watering during this period.
- Installation preparation for all seeded areas: remove/kill off any existing unwanted vegetation prior to seeding. Prepare the topsoil (if adequate or provide as in item #6 above) and seed bed by removing all surface stones 1" or larger. Apply a starter fertilizer and specified seed uniformly at the specified rate, and provide mulch covering suitable to germinate and establish turf. Provide seed and fertilizer specifications to Landscape Architect and Owner prior to installation. Erosion control measures are to be used in swales and on slopes in excess of 1:3 and where applicable (see Civil Engineering Drawings). Methods of installation may vary at the discretion of the Landscape Contractor on his/her responsibility to establish and guarantee a smooth, uniform, quality turf. A minimum of 2" of blended, prepared and non-compacted topsoil is required for all lawn areas. If straw mulch is required as a mulch covering, a tackifier may be necessary to avoid wind dispersal of mulch covering. Marsh hay containing reed canary grass is NOT acceptable as a mulch covering.
  - An acceptable quality seed installation is defined as having:
    - No bare spots larger than one (1) square foot
    - No more than 10% of the total area with bare areas larger than one (1) square foot
    - A uniform coverage through all turf areas

- No-Mow seed areas: "No-Mow" fine fescue seed mix with annual ryegrass (available at Cedar Creek Seed Farm 888-313-6807; or Prairie Nursery 608-296-3679) or approved equivalent mix from a reputable seed mix provider. Apply at 220 lbs per acre or at rate recommended by supplier. Prepare seed bed and soil as specified in item #13 above.
- Native Prairie Seed Mix / Stormwater Seed Mix: Native seed mixes as listed on the Plant and Material List or other seeding schedules outlined on the landscape plan set. Seed mixes available from Prairie Nursery 608-296-3679 or JF New 608-948-1789 or approved equivalent mix from a reputable seed mix provider. Apply at rates specified herein, or per supplier recommendation. Prepare soil and seed bed as in item #13 above.
- Warranty and Replacements: All plantings are to be watered thoroughly at the time of planting, through construction and upon completion of project as required. Trees, Evergreens, and Shrubs (deciduous and evergreen) shall be guaranteed (100% replacement) for a minimum of one (1) year from the date of project completion. Perennials, groundcovers, and ornamental grasses shall be guaranteed for a minimum of one (1) growing season. Perennials, groundcovers, and ornamental grasses planted after September 15th shall be guaranteed through May 31st of the following year. Only one replacement per plant will be required during the warranty period, except for losses or replacements due to failure to comply with specified requirements. Watering and general ongoing maintenance instructions are to be supplied by the Landscape Contractor to the Owner upon completion of the project.
- The Landscape Contractor is responsible for the watering and maintenance of all landscape areas for a period of 45 days after the substantial completion of the landscape installation. This shall include all trees, shrubs, evergreens, perennials, ornamental grasses, turf grass, no-mow grass, and native prairie seed mix / stormwater seed mix. Work also includes weeding, edging, mulching (only if required), fertilizing, trimming, sweeping up grass clippings, pruning and deadheading.
- Project Completion: Landscape Contractor is responsible to conduct a final review of the project, upon completion, with the Landscape Architect, Client or Owner / Client Representative, and the General Contractor to answer questions, provide written care instructions for new plantings and turf, and insure that all specifications have been met.

## LANDSCAPE GENERAL NOTES



## LANDSCAPE DETAILS, NOTES & SCHEDULES

SHEET TITLE

**NEW BUILDING FOR:**  
WESTERN BUILDING PRODUCTS  
7007 N. 115TH STREET  
MILWAUKEE, WI

PROGRESS SET  
NOT FOR CONSTRUCTION

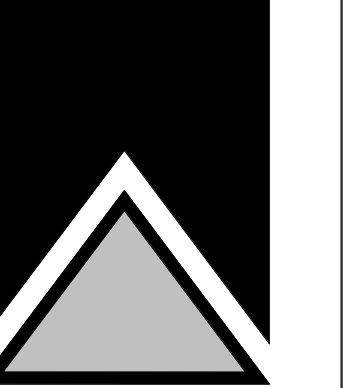
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CHECKED: WDH  
DATE: 06-25-2019  
SHEET:

**L1.4**



P.O. Box 1359  
Lake Geneva, Wisconsin 53147-1359  
ph 262.639.9733  
david@wdavidheller.com  
www.wdavidheller.com





EXTERIOR ELEVATIONS

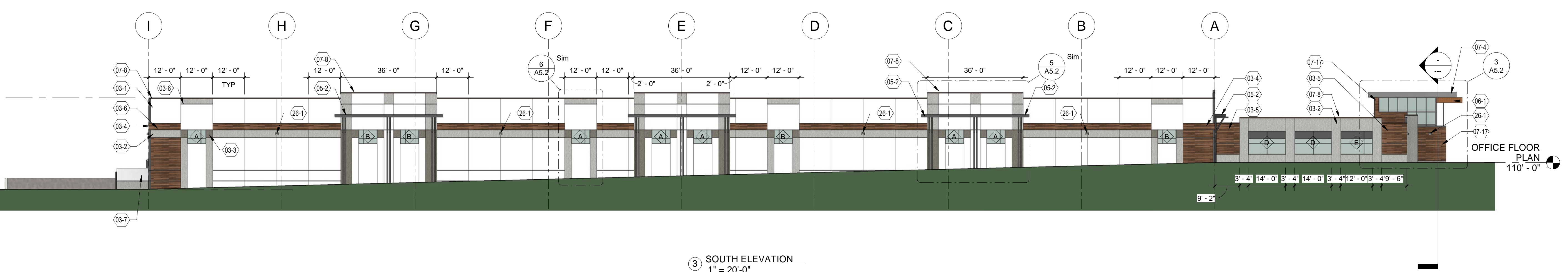
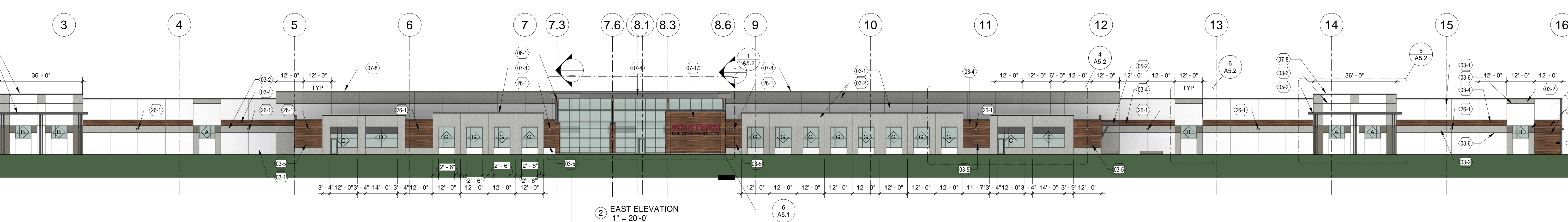
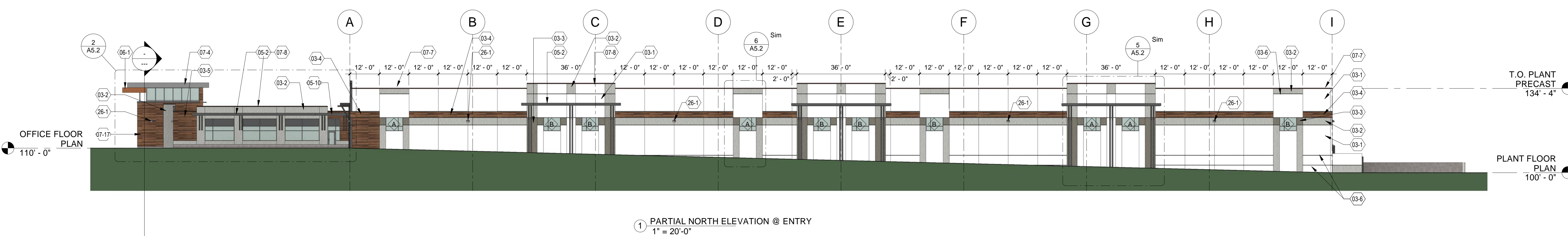
SHEET TITLE

WESTERN BUILDING  
WESTERN BUILDING PRODUCTS  
7007 N. 115TH STREET  
MILWAUKEE, WI

PROGRESS SET  
NOT FOR CONSTRUCTION

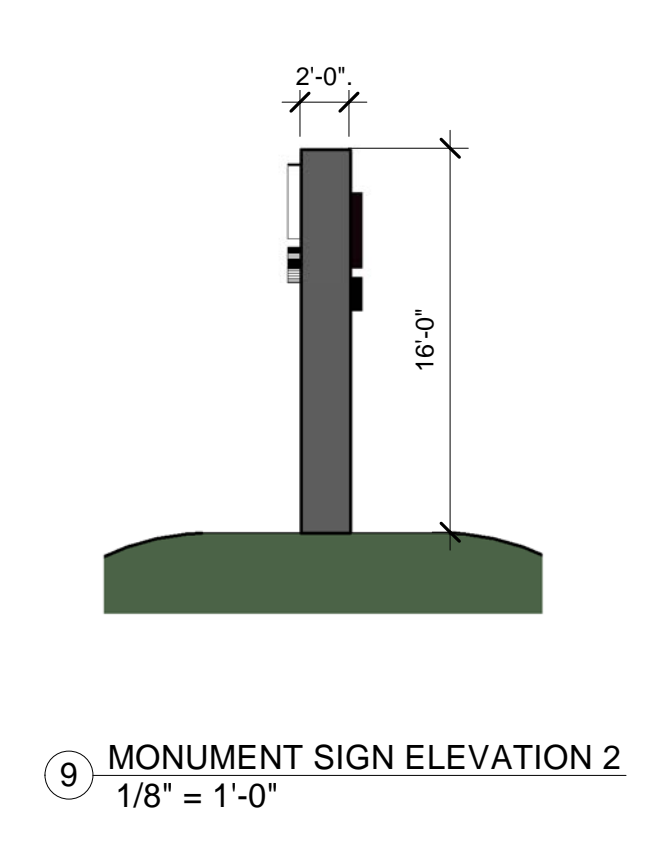
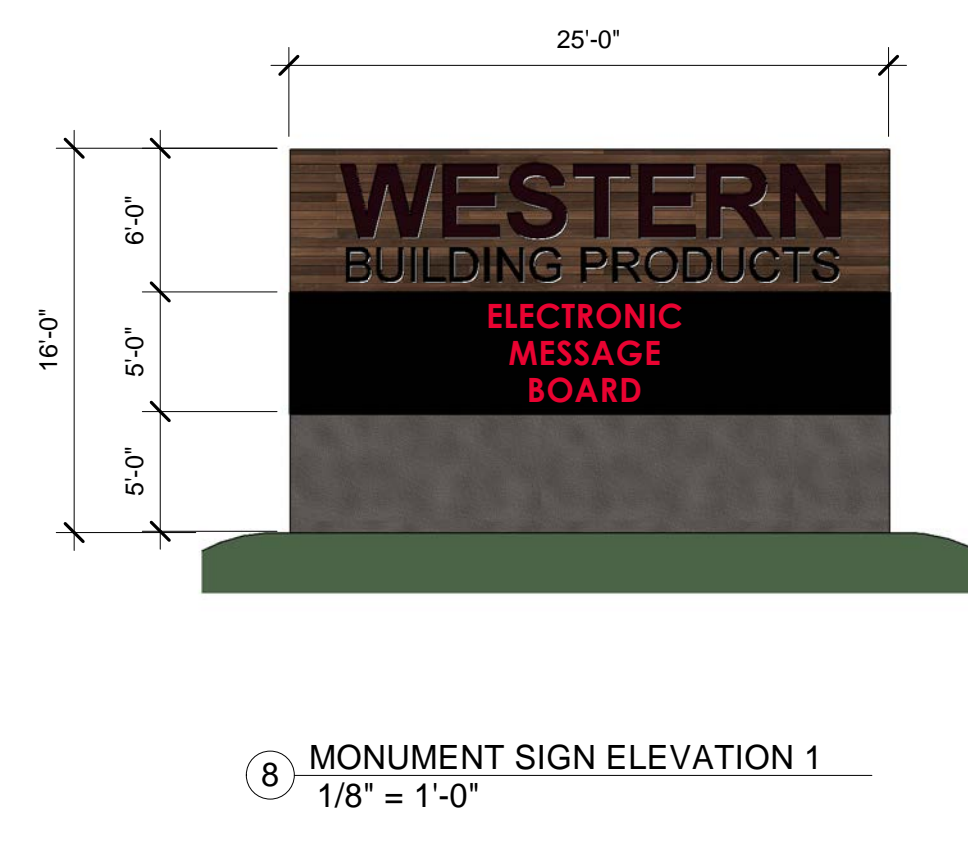
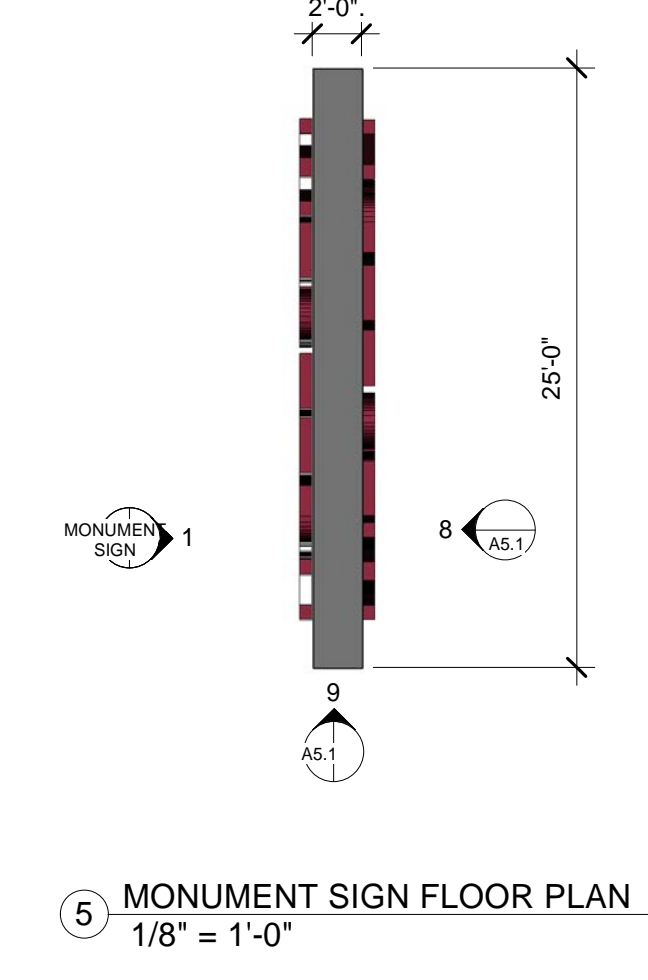
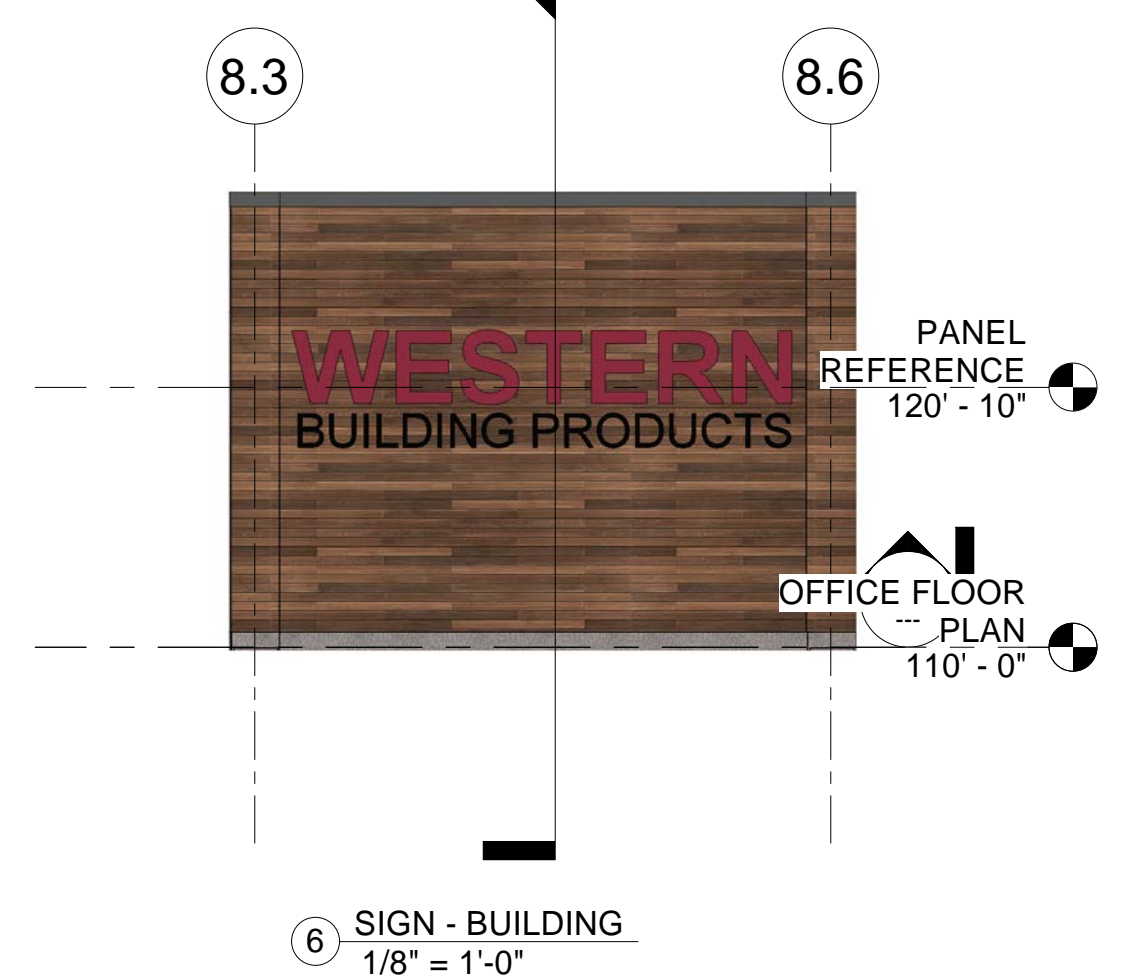
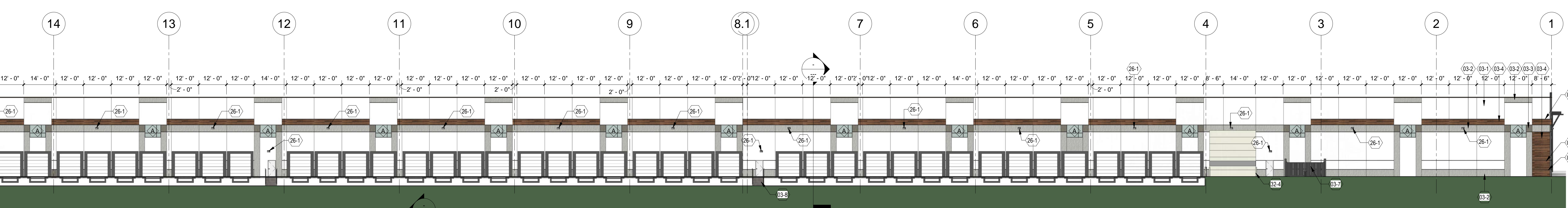
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CHECKED: JH  
DATE: 05-09-2019  
SHEET:

A5.1



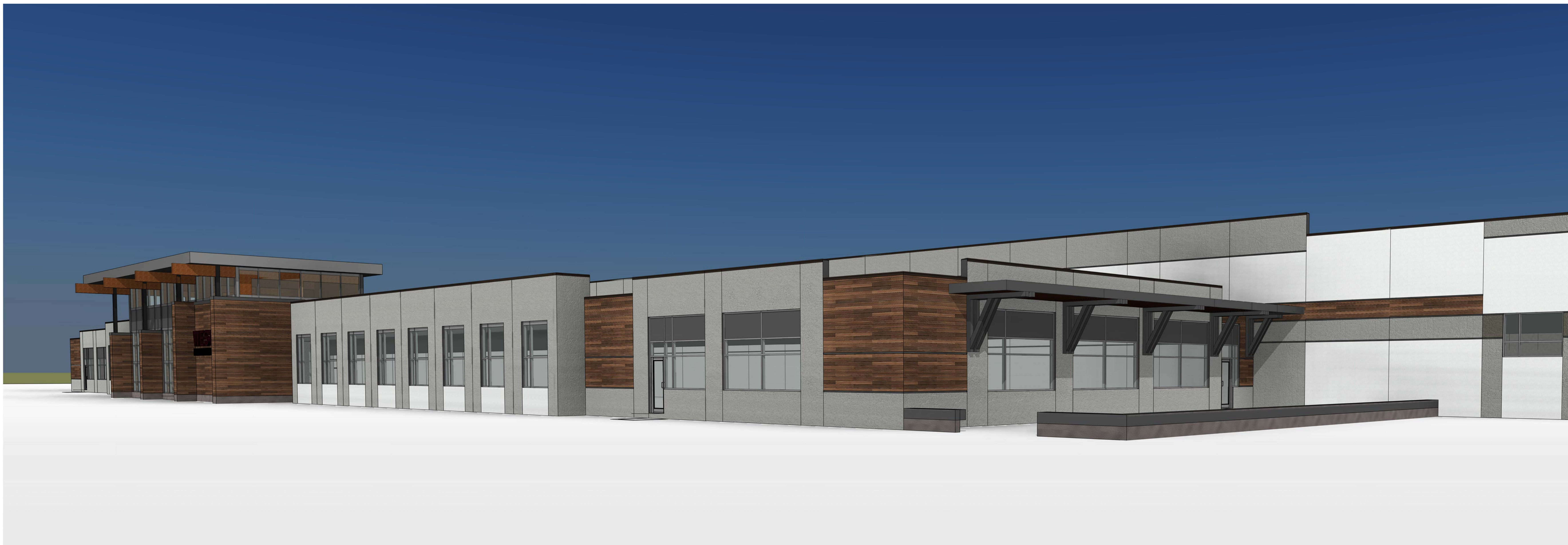
**KEYNOTE LEGEND**

VALUE	FLOOR PLAN CODED NOTES
03-1	EXTERIOR PRECAST CONCRETE WALL PANEL SHALL BE INSULATED WITH PAINTED COLOR 1
03-2	EXTERIOR PRECAST CONCRETE WALL PANEL SHALL BE INSULATED WITH PAINTED COLOR 2
03-3	EXTERIOR PRECAST CONCRETE WALL PANEL SHALL BE INSULATED WITH PAINTED COLOR 3
03-4	EXTERIOR PRECAST CONCRETE WALL PANEL SHALL BE INSULATED WITH WOOD-LOOK FORM LINER PAINTED COLOR 4
03-5	FIBER CEMENT BOARDS ON EXTERIOR INSULATED PRECAST CONCRETE WALL PANELS
03-6	REVEAL
03-7	PRECAST CONCRETE PANEL TRASH ENCLOSURE WITH GATES
03-8	PRECAST CONCRETE STAIRS W/PAINTED PIPE RAILING
05-2	PAINTED STEEL TUBE SUNSHADE PAINTED COLOR 3 - SEE STRUCTURAL & REFERENCED ARCHITECTURAL SECTIONS
05-10	TUBE STEEL TRAMED CANOPY, PAINT COLOR 3
06-1	GLULAM BEAM (REFER TO STRUCTURAL DWGS)
07-4	PREFINISHED METAL FASCIA COLOR 2
07-7	PRE FINISHED METAL 24 GA. COPING STOP COLOR 3
07-8	PRE FINISHED METAL 24 GA. COPING COLOR 3
07-17	FIBER CEMENT BOARD LAPPED SIDING ON RAINSCREEN SYSTEM ON CF STUD FRAMING (SEE WALL SECTIONS AND DETAILS)
26-1	EXTERIOR LIGHT FIXTURE
32-4	6" DIAMETER x 4'-0" TALL CONCRETE FILLED STEEL PIPE BOLLARD(S), PAINTED SAFETY YELLOW



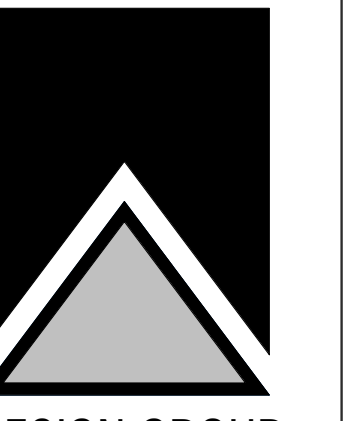


② 3D View 3



① 3D View 3 Copy 2

BRIORN



DESIGN GROUP  
3805 N. BRIDGEFIELD ROAD, SUITE 200  
BROOKFIELD, WISCONSIN 53005-1950  
(262) 790-5200 PHONE  
(262) 790-5205 FAX

SHEET TITLE  
EXTERIOR PERSPECTIVES -  
OFFICE

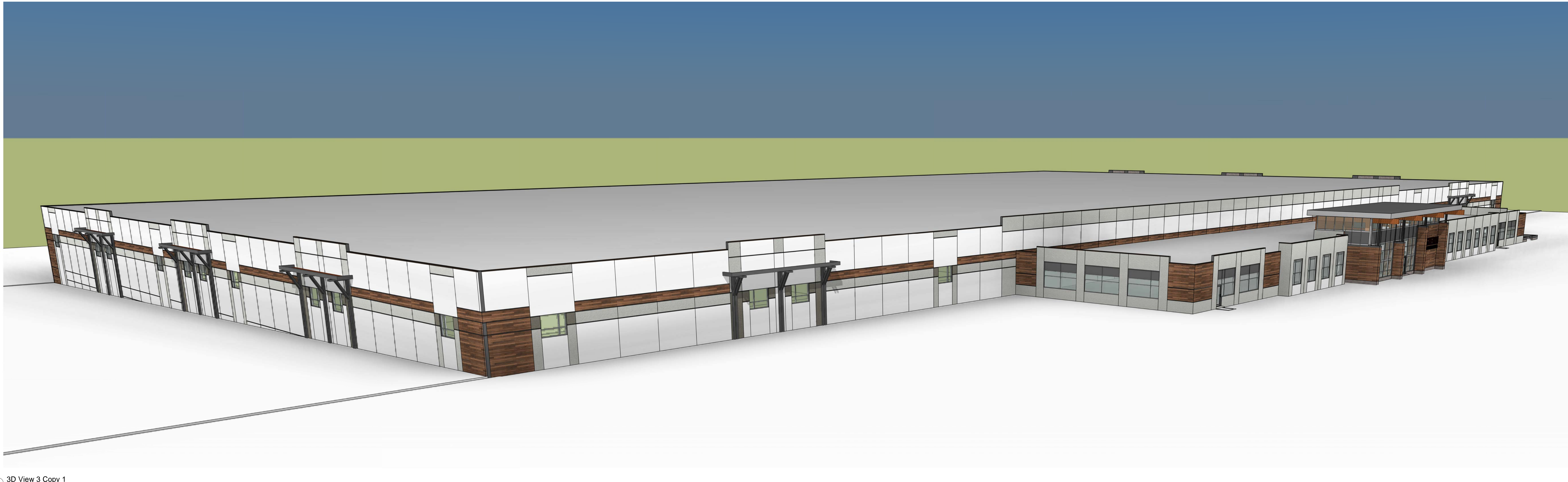
NEW BUILDING FOR:  
WESTERN BUILDING PRODUCTS  
7007 N. 115TH STREET  
MILWAUKEE, WI

JOB: 3111  
DRAWN: CW  
CHECKED: JH  
DATE: 03-11-2019

SHEET:  
**A5.2**



APPLICABLE  
TO ALL  
PLAN VIEWS



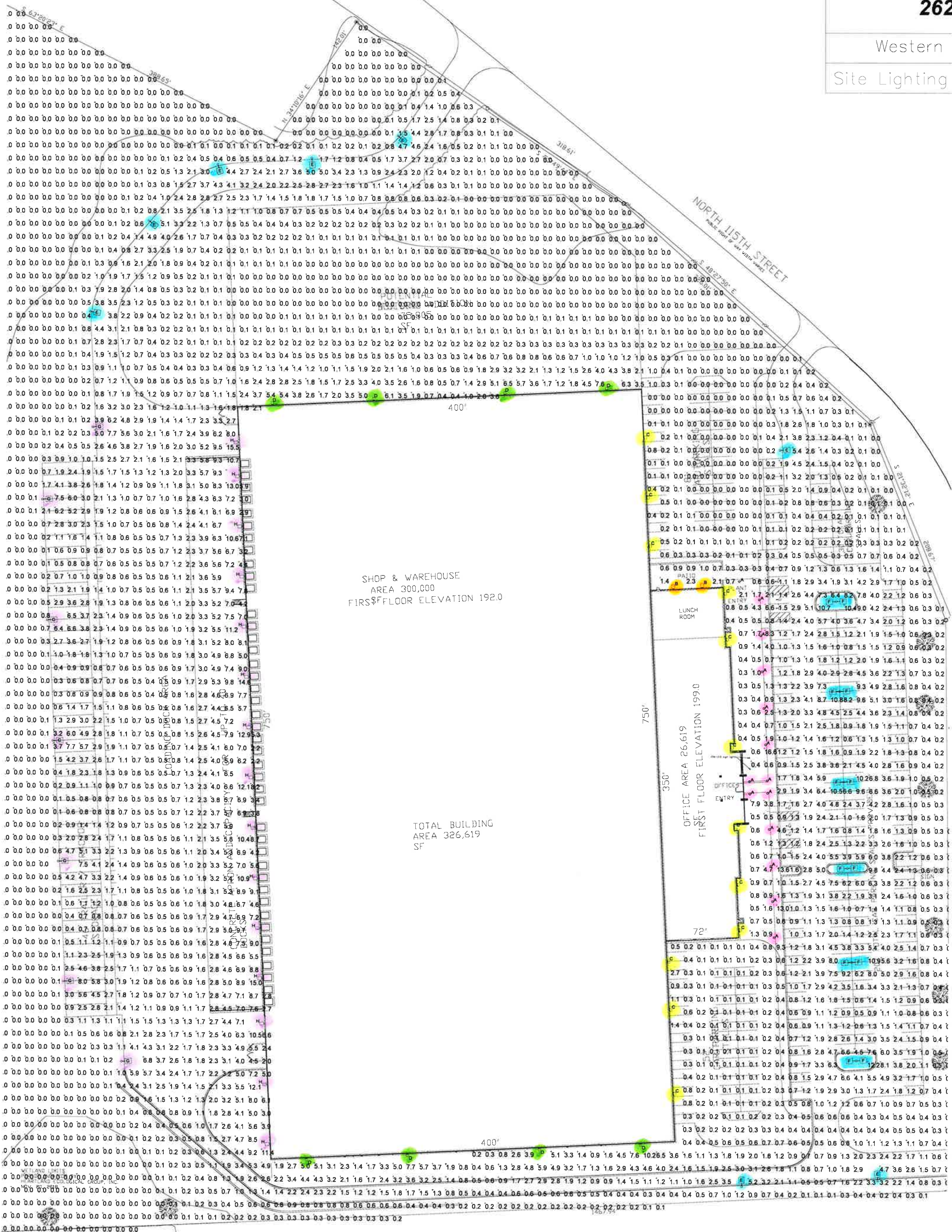
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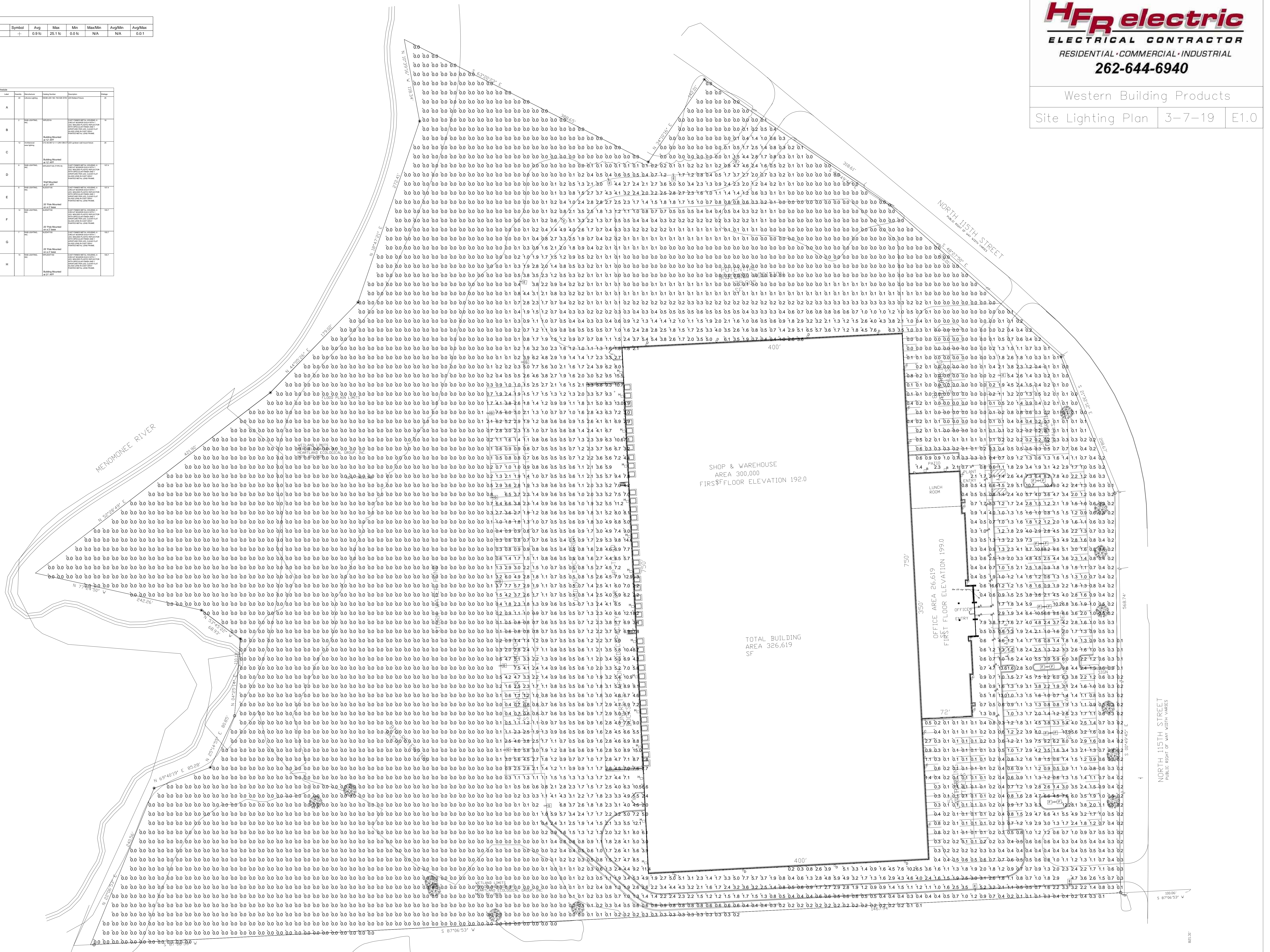
**Luminaire Schedule**

Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Wattage
	A	20	Lithonia Lighting	DSXB LED 16C 700 50K SYM	LED Bollard Fixture	25
	B	2	RAB LIGHTING, INC.	WPLED18-  Building Mounted at 12' AFF	CAST FINNED METAL HOUSING, 6 CIRCUIT BOARDS EACH WITH 1 LED, MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH AND 1 APERTURE PER LED, CLEAR FLAT GLASS LENS IN CAST GRAY PAINTED METAL LENS FRAME.	18
	C	12	Architectural area lighting	CY2-45-5K7-2-1-1-UNV-DB-CT  Building Mounted at 12' AFF	LED up/down wall mount fixture	25
	D	8	RAB LIGHTING, INC.	WPLED3T105 (TYPE III)  Wall Mounted at 21' AFF	CAST FINNED METAL HOUSING, 6 CIRCUIT BOARDS EACH WITH 1 LED, MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH AND 1 APERTURE PER LED, CLEAR FLAT GLASS LENS IN CAST GRAY PAINTED METAL LENS FRAME.	107.4
	E	8	RAB LIGHTING, INC.	ALED3T105  20' Pole Mounted on a 2' base	CAST FINNED METAL HOUSING, 6 CIRCUIT BOARDS EACH WITH 1 LED, MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH AND 1 APERTURE PER LED, CLEAR FLAT GLASS LENS IN CAST GRAY PAINTED METAL LENS FRAME.	107.4
	F	12	RAB LIGHTING, INC.	ALED4T150  20' Pole Mounted on a 2' base	CAST FINNED METAL HOUSING, 6 CIRCUIT BOARDS EACH WITH 1 LED, MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH AND 1 APERTURE PER LED, CLEAR FLAT GLASS LENS IN CAST GRAY PAINTED METAL LENS FRAME.	155.7
	G	7	RAB LIGHTING, INC.	ALED4T150  25' Pole Mounted on a 2' base	CAST FINNED METAL HOUSING, 6 CIRCUIT BOARDS EACH WITH 1 LED, MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH AND 1 APERTURE PER LED, CLEAR FLAT GLASS LENS IN CAST GRAY PAINTED METAL LENS FRAME.	155.7
	H	15	RAB LIGHTING, INC.	WPLED4T150  Building Mounted at 21' AFF	CAST FINNED METAL HOUSING, 6 CIRCUIT BOARDS EACH WITH 1 LED, MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH AND 1 APERTURE PER LED, CLEAR FLAT GLASS LENS IN CAST GRAY PAINTED METAL LENS FRAME.	155.7



Statistics							
Description	Symbol	Avg	Max	Min	MaxMin	AvgMin	AvgMax
Calc Zone #1	+.	0.9 fc	25.1 fc	0.0 fc	N/A	N/A	0.0-1

Item No.	Quantity	Description	Notes
1	1	20' Pole Mount	
2	1	20' Pole Mount	
3	1	20' Pole Mount	
4	1	20' Pole Mount	
5	1	20' Pole Mount	
6	1	20' Pole Mount	
7	1	20' Pole Mount	
8	1	20' Pole Mount	
9	1	20' Pole Mount	
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25	1	20' Pole Mount	
26	1	20' Pole Mount	
27	1	20' Pole Mount	
28	1	20' Pole Mount	
29	1	20' Pole Mount	
30	1	20' Pole Mount	







*RESIDENTIAL • COMMERCIAL • INDUSTRIAL*

*227 Weil Drive • Slinger, WI 53086*

*Phone(262)644-6940 • Fax(262)644-7647*

Western Building Products

Exterior Lighting Submittal 3-7-19

Type: A



# D-Series LED Bollard



d#series

## Specifications

**Diameter:** 8" Round  
(20.3 cm)  
**Height:** 42"  
(106.7 cm)  
**Weight (max):** 27 lbs  
(12.25 kg)



Catalog Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

## Introduction

The D-Series LED Bollard is a stylish, energy-saving, long-life solution designed to perform the way a bollard should—with zero uplight. An optical leap forward, this full cut-off luminaire will meet the most stringent of lighting codes. The D-Series LED Bollard's rugged construction, durable finish and long-lasting LEDs will provide years of maintenance-free service.

## Ordering Information

EXAMPLE: DSXB LED 16C 700 40K SYM MVOLT DDBXD

DSXB LED	Series	LEDs	Drive current	Color temperature	Distribution	Voltage	Control options	Other options	Finish <i>(required)</i>
DSXB LED	Asymmetric 12C 12 LEDs <sup>1</sup>	350 350 mA	30K 3000 K	ASY Asymmetric <sup>1</sup> SYM Symmetric <sup>2</sup>	MVOLT <sup>5</sup>	Shipped installed	Shipped installed	DWHXD White	
		450 450 mA <sup>3,4</sup>	40K 4000 K					DNAXD Natural aluminum	
DSXB LED	Symmetric 16C 16 LEDs <sup>2</sup>	530 530 mA	50K 5000 K	AMBLW Amber limited wavelength <sup>3,4</sup>	120 <sup>5</sup> 208 <sup>5</sup> 240 <sup>5</sup> 277 <sup>5</sup> 347 <sup>4</sup>	DMG 00-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) ELCW Emergency battery backup <sup>6</sup>	SF Single fuse (120, 277, 347V) <sup>4,7</sup> DF Double fuse (208, 240V) <sup>4,7</sup> H24 24" overall height H30 30" overall height H36 36" overall height FG Ground-fault festoon outlet L/AB Without anchor bolts L/AB4 4-bolt retrofit base without anchor bolts <sup>8</sup>	DDBXD Dark bronze	
		700 700 mA	AMBPC Amber phosphor converted					DBLXD Black	
								DDBTXD Textured dark bronze	
								DBLBXD Textured black	
								DNATXD Textured natural aluminum	
								DWHGXD Textured white	

## Accessories

Ordered and shipped separately.

MRAB U Anchor bolts for DSXB<sup>8</sup>

## NOTES

- 1 Only available in the 12C, ASY version.
- 2 Only available in the 16C, SYM version.
- 3 Only available with 450 AMBLW version.
- 4 Not available with ELCW.
- 5 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options), or photocontrol (PE option).
- 6 Not available with 347V. Not available with fusing. Not available with 450 AMBLW.
- 7 Single fuse (SF) requires 120, 277, or 347 voltage option. Double fuse (DF) requires 208 or 240 voltage option.
- 8 MRAB U not available with L/AB4 option.



## Performance Data

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Actual wattage may differ by +/- 8% when operating between 120-480V +/- 10%.

Light Engines	Drive Current	System Watts	3000 K					4000 K					5000 K					Limited Wavelength Amber					
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	
Asymmetric (12 LEDs)	350	16	1,194	75	1	0	1	1,283	80	1	0	1	1,291	81	1	0	1						
	530	22	1,719	78	1	0	1	1,847	84	1	0	1	1,859	85	1	0	1						
	700	31	2,173	70	1	0	1	2,335	75	1	0	1	2,349	76	1	0	1						
	Amber 450	16																348	22	1	0	1	
Symmetric (16 LEDs)	350	20	1,558	78	1	0	0	1,674	84	1	0	0	1,685	84	1	0	0						
	530	28	2,232	80	2	0	1	2,397	86	2	0	1	2,412	86	2	0	1						
	700	39	2,802	72	2	0	1	3,009	77	2	0	1	3,028	78	2	0	1						
	Amber 450	20																419	21	1	0	1	

**Note:** Available with phosphor-converted amber LED's (nomenclature AMBPC). These LED's produce light with 97+% >530 nm. Output can be calculated by applying a 0.7 factor to 4000 K lumen values and photometric files.

## Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.00	0.98	0.97	0.95

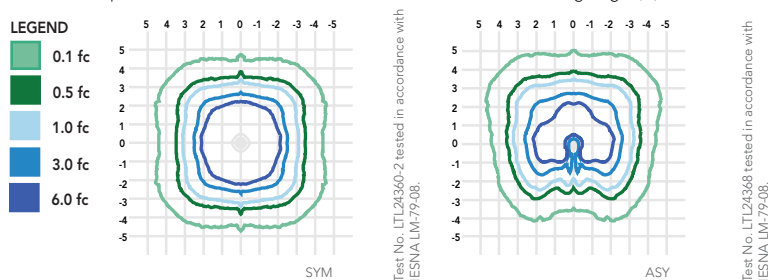
## Electrical Load

Light Engines	Drive Current (mA)	System Watts	Current (A)				
			120	208	240	277	347
12C	350	16W	0.158	0.118	0.114	0.109	0.105
	530	22W	0.217	0.146	0.136	0.128	0.118
	700	31W	0.296	0.185	0.168	0.153	0.139
	Amber 450	16W	0.161	0.120	0.115	0.110	0.106
16C	350	20W	0.197	0.137	0.128	0.121	0.114
	530	28W	0.282	0.178	0.162	0.148	0.135
	700	39W	0.385	0.231	0.207	0.185	0.163
	Amber 450	20W	0.199	0.139	0.130	0.123	0.116

## Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [D-Series Bollard homepage](#).

Isfootcandle plots for the DSXB LED 700 40K. Distances are in units of mounting height (3').



## FEATURES & SPECIFICATIONS

### INTENDED USE

The rugged construction and maintenance-free performance of the D-Series LED Bollard is ideal for illuminating building entryways, walking paths and pedestrian plazas, as well as any other location requiring a low-mounting-height light source.

### CONSTRUCTION

One-piece 8-inch-round extruded aluminum shaft with thick side walls for extreme durability, and die-cast aluminum reflector and top cap. Die-cast aluminum mounting ring allows for easy leveling even in uneven areas and full 360-degree rotation for precise alignment during installation. Three 1/2" x 11" anchor bolts with double nuts and washers and 3-5/8" max. bolt circle template ensure stability. Overall height is 42" standard.

### FINISH

Exterior parts are protected by a zinc-infused super durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering for maximum retention of gloss and luster. A tightly controlled multi-stage process ensures a minimum 3-mil thickness for a finish that can withstand the elements without cracking or peeling. Available in both textured and non-textured finishes.

### OPTICS

Two 0% uplight optical distributions are available: symmetrical and asymmetrical. IP66 sealed LED light engine provides smoothly graduated illumination without uplight. Light engines are available in standard 4000 K (>70 CRI) or optional 3000 K (>80 CRI) or 5000 K (67 CRI). Limited-wavelength amber LEDs are also available.

### ELECTRICAL

Light engines consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (L95/100,000 hours at 700mA at 25°C). Class 2 electronic drivers are designed for an expected life of 100,000 hours with < 1% failure rate. Electrical components are mounted on a removable power tray.

### LISTINGS

CSA certified to U.S. and Canadian standards. Light engines are IP66 rated. Rated for -40°C minimum ambient. Cold-weather emergency battery backup rated for -20°C minimum ambient.

### WARRANTY

Five-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx).

**Note:** Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.





Ultra-high efficiency LED 18 Watt wallpack. patent-pending thermal management system. 100,000 hour L70 lifespan. 5-year, no-compromise warranty.

Color: Bronze

Weight: 6.9 lbs

**Project:**  
Western Products

**Type:**  
B

**Prepared By:**  
HFR electric inc.

**Date:**  
3-7-19

**Driver Info**

Type	Constant Current
120V	0.17A
208V	0.11A
240V	0.09A
277V	0.08A
Input Watts	20.5W

**LED Info**

Watts	18W
Color Temp	5000K (Cool)
Color Accuracy	73 CRI
L70 Lifespan	100,000
Lumens	2,624
Efficacy	128 LPW

## Technical Specifications

### Listings

**UL Listing:**

Suitable for wet locations. Suitable for mounting within 1.2m (4ft) of the ground.

**DLC Listed:**

This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities.

DLC Product Code: P0000176N

**IESNA LM-79 & LM-80 Testing:**

RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.

### LED Characteristics

**Lifespan:**

100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations

**LED:**

Multi-chip, high-output, long-life LED

**Color Consistency:**

7-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color

**Color Stability:**

LED color temperature is warrantied to shift no more than 200K in CCT over a 5-year period

**Color Uniformity:**

RAB's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017.

### Construction

**Maximum Ambient Temperature:**

Suitable for use in 40°C (104°F)

**Cold Weather Starting:**

Minimum starting temperature is -40°C (-40°F)

**Thermal Management:**

Superior heat sinking with external Air-Flow fins

**Finish:**

Our environmentally friendly polyester powder coatings are formulated for high-durability and long-lasting color

**Reflector:**

Semi-specular, vacuum-metalized polycarbonate

**Gaskets:**

High-temperature silicone gaskets

**Housing:**

Die-cast aluminum housing, lens frame and mounting arm

**Mounting:**

Heavy-duty mounting arm with "O" ring seal & stainless steel screws

**Green Technology:**

Mercury and UV free. RoHS-compliant components.

### Other

**Patents:**

The design of WPLED18 is protected by US patent D608,040, Canada patent 138280, and China patent CN301649064S

**Warranty:**

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish. RAB's warranty is subject to all terms and conditions found at [www.rablighting.com/legal#warranty](http://www.rablighting.com/legal#warranty)

**Technical Specifications (continued)**

**Other**

**Replacement:**

Replaces 150W Metal Halide

**Buy American Act Compliance:**

RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

**Optical**

**BUG Rating:**

B1 U0 G0

**Electrical**

**Driver:**

Constant Current, Class 2, 100-277V, 50/60 Hz, 4 kV surge protection, 500mA, 100-240VAC: 0.3-0.15A, 277VAC: 0.15A, Power Factor: 99%

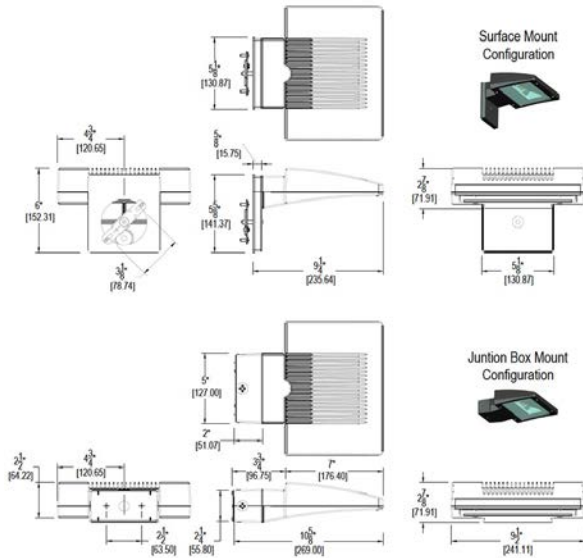
**THD:**

9.77% at 120V, 18.41% at 277V

**Power Factor:**

99.2% at 120V, 91.5% at 277V

**Dimensions**



**Features**

- Ultra-high efficiency LED 18 Watt wallpack
- Replaces 150W Metal Halide Wallpacks
- 100,00-Hour LED Lifespan
- 5-Year, No-Compromise Warranty

**Ordering Matrix**

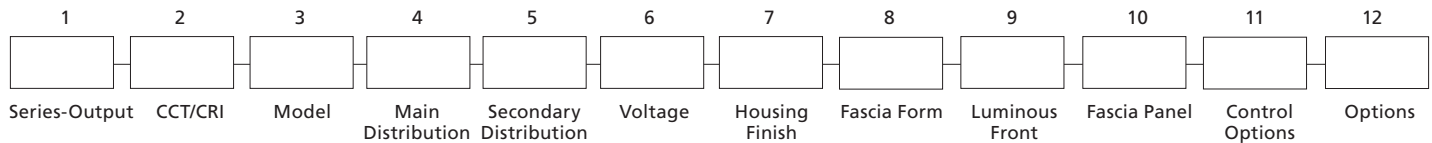
Family	Wattage	Color Temp	Finish	Emergency Battery Backup	Options	Other Options
WPLED	18					
	18 = 18W	Blank = 5000K (Cool) N = 4000K (Neutral) Y = 3000K (Warm)	Blank = Bronze W = White	Blank = No Battery Backup /E = Standard Battery Backup /EC = Battery Backup with Cold Start	Blank = No Option /PC = 120V Button Photocell /PC2 = 277V Button Photocell	Blank = Standard USA = BAA Compliant

## FEATURES

- Integral Battery Backup Option
- 360° Light Distribution
- RGBW or Static White Luminous Front Option
- IES Type I, II, III & IV Distributions
- Wall Graze, Spot and Pencil Distributions
- Multiple Fascia Options and Finishes
- 0-10V dimming
- IP-66 Housing & Optical System
- 120-277, 347 and 480V
- 3000K, 4000K & 5000K CCT
- 10kA Surge Protection
- Fascia Forms F and E are ADA compliant for use in low mounting height applications (80 inches or less)
- IDA approved, downlight only, 3000K and warmer CCTs
- Occupancy Sensor & Wireless Control Options



## ORDERING CODE



### SERIES-OUTPUT (Base)

CY2-25	25w, 2500 nominal lumens
CY2-35	40w, 3500 nominal lumens
<b>CY2-45</b>	<b>50w, 4500 nominal lumens</b>

### CCT-CRI

27K8	2700K, 80CRI
3K7	3000K, 70CRI
3K8	3000K, 80CRI
4K7	4000K, 70CRI
4K8	4000K, 80CRI
<b>5K7</b>	<b>5000K, 70CRI</b>

### MODEL (Light Engine)

1	DownLight Only
<b>2</b>	<b>50/50 Down/Up, Down/Up distributions must match</b>
3	90/10 Down/Up
4	25/25/25/25 Split, <b>Down/Up/Side distributions must match</b>
5	70/10/10/10 Split, <b>Top/Side distributions must match</b>

Contact factory for custom distributions, See Distribution Matrix on page 2 for restrictions.

### MAIN DISTRIBUTION (Down)

<b>1</b>	<b>IES Type I</b>
2	IES Type II
3	IES Type III
4	IES Type IV
SP	15° Spot/Column
WG	60° Wall Graze
1D	Type 1 Diffused
2D	Type 2 Diffused
3D	Type 3 Diffused
4D	Type 4 Diffused

### SECONDARY DISTRIBUTION (Up, Sides)

<b>1</b>	<b>IES Type I</b>
2	IES Type II
3	IES Type III
4	IES Type IV
SP	15° Spot/Column
WG	60° Wall Graze
PB*	Pencil Beam
1D	Type 1 Diffused

\* PB distribution is available for 90/10 and 70/10/10/10 models only. Not all combinations are recommended. See Distribution Matrix on page 2 for restrictions.

### SECONDARY DISTRIBUTION (Up, Sides)

2D	Type 2 Diffused
3D	Type 3 Diffused
4D	Type 4 Diffused

\* PB distribution is available for 90/10 and 70/10/10/10 models only. Not all combinations are recommended. See Distribution Matrix on page 2 for restrictions.

### VOLTAGE

UNV	120-277V
347	347V
480	480V

### BASE HOUSING FINISH

#### Standard Colors

AGN	Antique Green
BL	Black
BLT	Matte Black
CRT	Corten
<b>DB</b>	<b>Dark Bronze</b>
DGN	Dark Green
GT	Graphite
LG	Light Grey
MAL	Matte Aluminum
MDB	Metallic Bronze
MG	Medium Grey
TT	Titanium
VBU	Verde Blue
WDB	Weathered Bronze
WH	Arctic White

#### Premium Colors

SFM	Seafoam
SHK	Shamrock
SPP	Salt and Pepper
WCP	Weathered Copper
RAL	Provide a RAL 4 digit color number
CUSTOM	Please provide color chip for matching
COLOR	

### FASCIA FORM

F	Flat
R	Radius/Curved
T	Triangle/Wedge
E	Rounded Edge
C	Circle/Curved
CB	Cylinder Balanced
<b>CT</b>	<b>Cylinder Tall</b>
CBM	Custom Building Material Mount
	Ghost Fascia

### LUMINOUS FRONT

<b>BLANK</b>	<b>Standard None</b>
RGBW	RGBW Luminous Front
LFSW	Static White Luminous Front

RGBW and LFSW luminous fronts are only available with open, four square and perforated fascia panels

### FASCIA PANEL

FPP	Full Panel Painted
FPS	Full Panel Stainless Steel
FPC	Full Panel Copper
OPP	Open Panel Painted
OPS	Open Panel Stainless Steel
OPC	Open Panel Copper
4PP	4-Square Panel Painted
4PS	4-Square Panel Stainless Steel
4PC	4-Square Panel Copper
PPP	Perforated Panel Painted
PPS	Perforated Panel Stainless Steel
PPC	Perforated Panel Copper

Flat and Radius Fascia forms only. Painted panels by default match base housing finish/color. Consult factory for custom panel finishes.

### CONTROL OPTIONS

PCU	Universal Button Photocell (120-277V)
SCP	Programmable Occupancy Sensor
SWP	SiteSync Wireless
SWPM	SiteSync Wireless w/Occupancy Sensor

WIR	wiSCAPE
WIRSC	wiSCAPE w/Occupancy Sensor

Occupancy sensors not available with CB, T, E or C fascia forms

### OPTIONS

EM	Battery Backup Unit -20°C
SF	Single Fuse (120, 277, 347)
DF	Double Fuse (208, 240, 480)

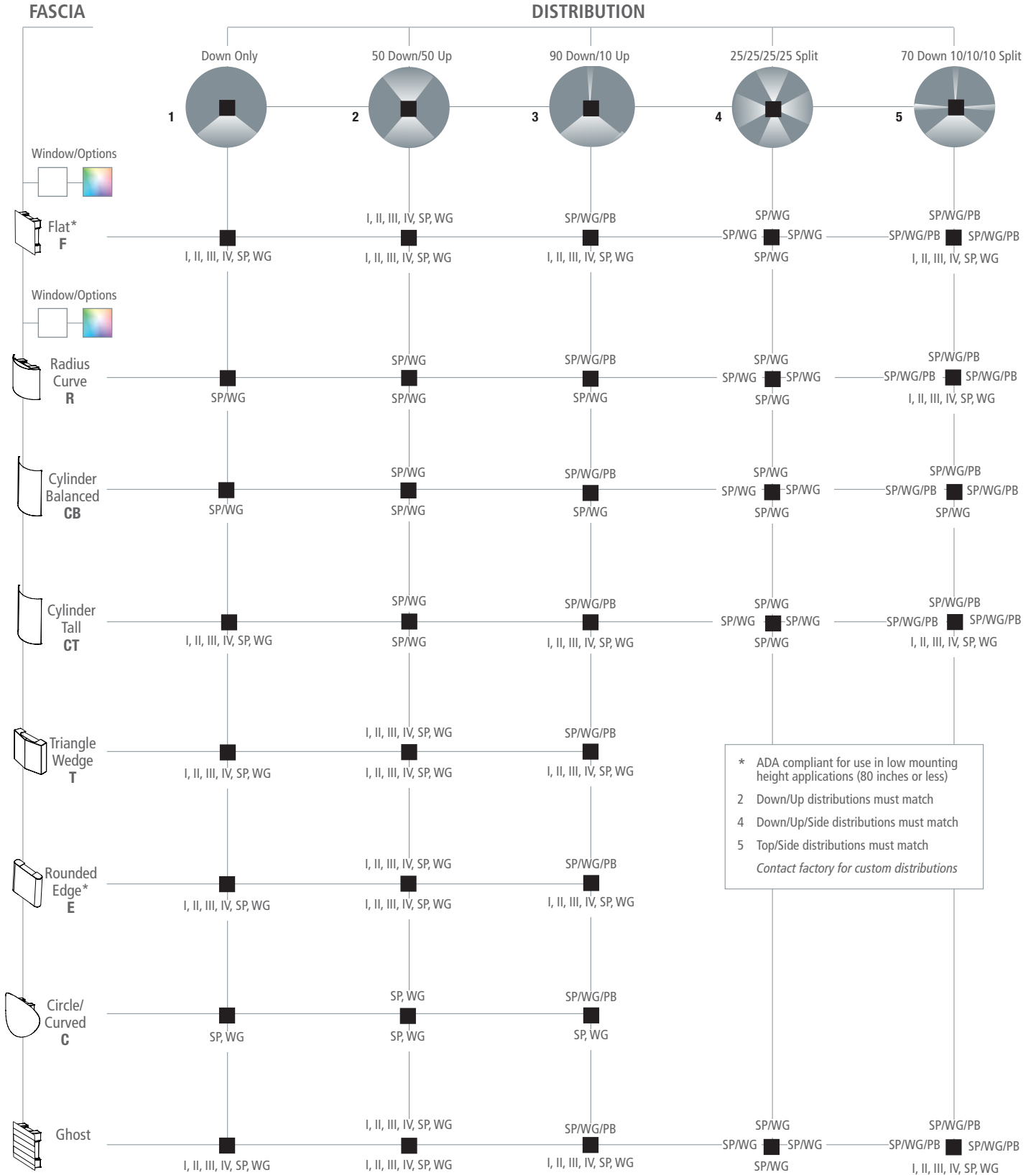
Battery Backup not available with Triangle and Rounded Edge Fascia Forms.



JOB	_____
TYPE	_____
NOTES	_____

# Cypher™ – CY2 Pedestrian Scale

## Distribution Matrix

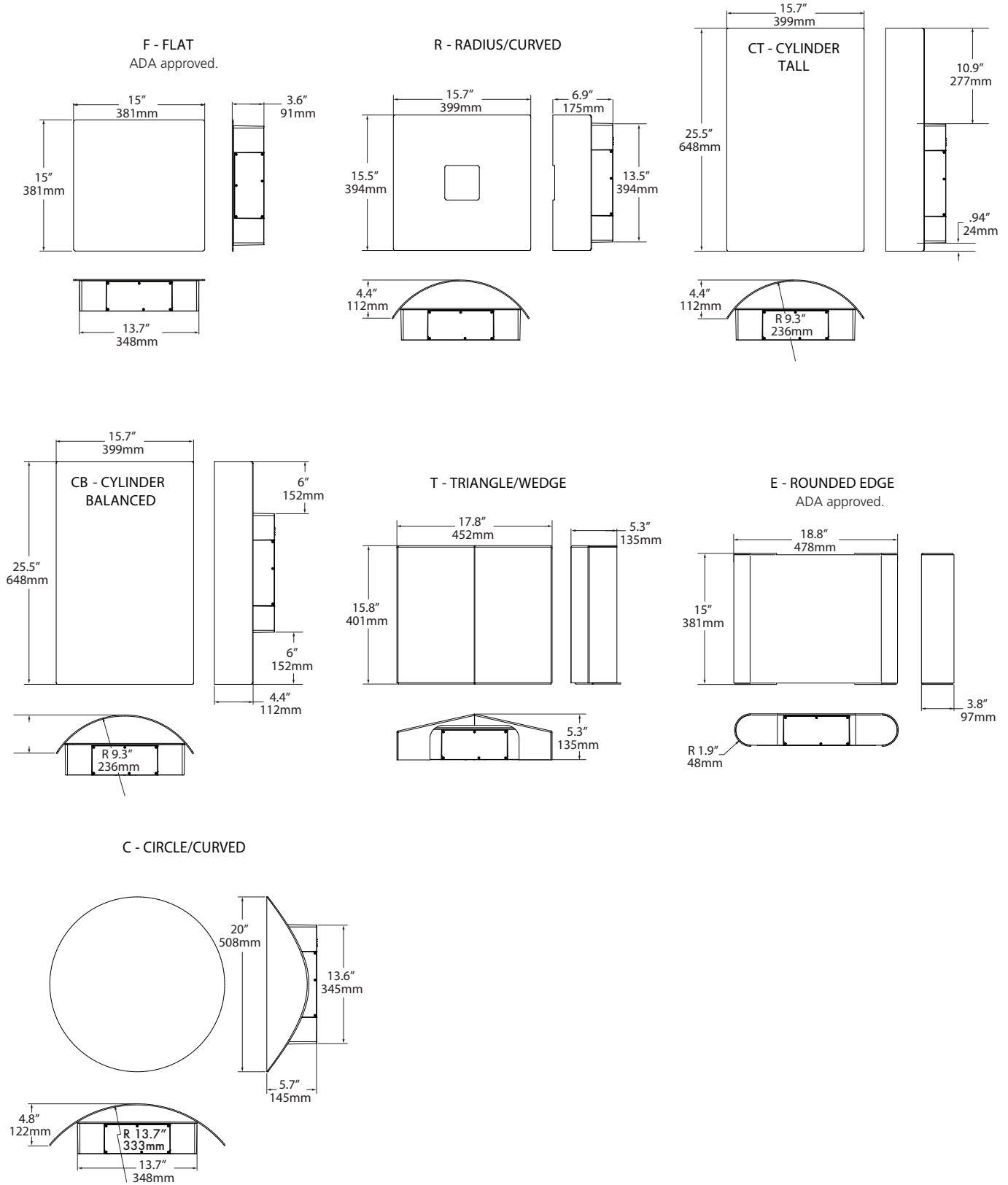


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JOB \_\_\_\_\_  
 TYPE \_\_\_\_\_  
 NOTES \_\_\_\_\_

# Cypher™ – CY2 Pedestrian Scale

## Drawings



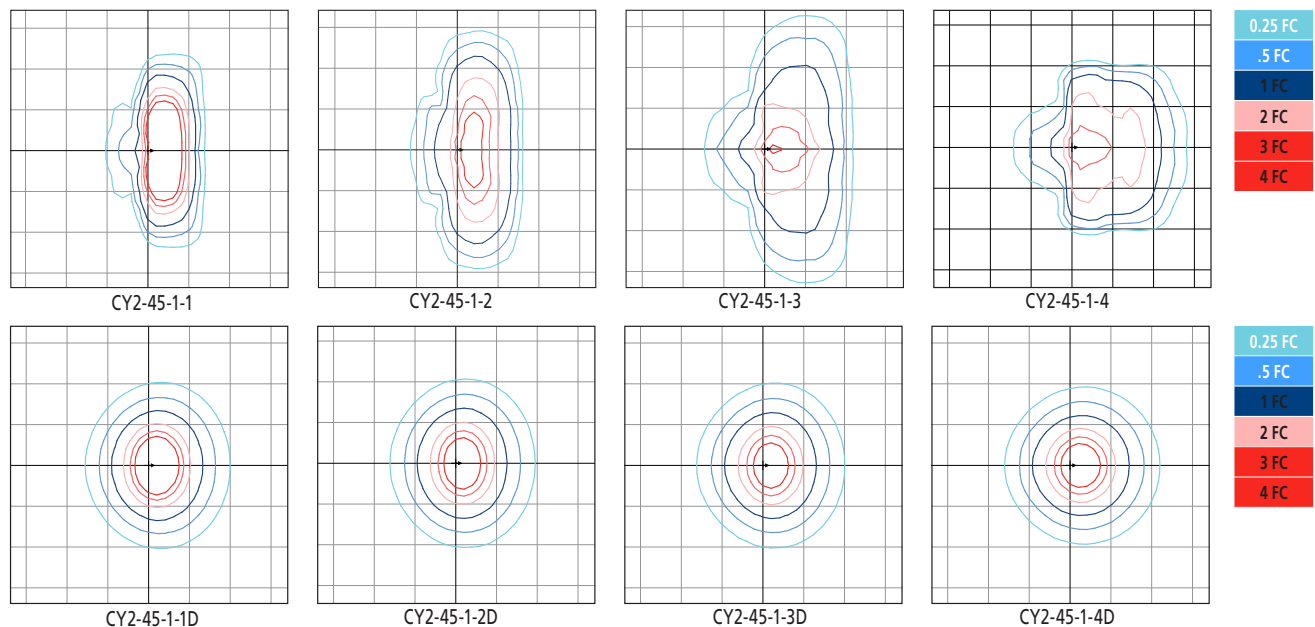


# Cypher™ – CY2 Pedestrian Scale

## LUMINAIRE PERFORMANCE

Downlight only			Configuration														
Nominal Output (Lm)	Average System Wattage	Distribution	Bright White (5000K)			Neutral White (4000K)			Warm White (3000K)								
			Delivered Lumens	Efficacy (Lm/W)	BUG Rating B U G	Delivered Lumens	Efficacy (Lm/W)	BUG Rating B U G	Delivered Lumens	Efficacy (Lm/W)	BUG Rating B U G						
2,500	26	Type 1	2836	109	0	0	0	2596	100	0	0	0	2499	96	0	0	0
		Type 2	2570	99	1	0	1	2353	90	1	0	1	2265	87	1	0	1
		Type 3	2739	107	1	0	1	2507	96	1	0	1	2413	93	1	0	1
		Type 4	2512	97	0	0	1	2299	88	0	0	1	2213	85	0	0	0
		Wall Graze	2795	107	2	0	0	2558	98	2	0	0	2462	95	2	0	0
		Spot/Column	2371	91	2	0	0	2171	83	2	0	0	2089	80	2	0	0
		Type 1 Diffused	2488	96	1	0	1	2278	88	1	0	1	2193	84	1	0	1
		Type 2 Diffused	2274	87	1	0	1	2082	80	1	0	1	2004	77	1	0	1
		Type 3 Diffused	2163	83	1	0	1	1980	76	1	0	1	1906	73	1	0	1
		Type 4 Diffused	2197	84	1	0	1	2011	77	1	0	1	1936	74	1	0	1
3,500	40	Type 1	4011	100	1	0	0	3672	92	1	0	0	3534	88	1	0	0
		Type 2	3635	91	1	0	1	3328	83	1	0	1	3203	80	1	0	0
		Type 3	3874	97	1	0	1	3546	89	1	0	1	3413	85	1	0	1
		Type 4	3553	89	1	0	1	3252	81	1	0	1	3131	78	1	0	1
		Wall Graze	3953	99	2	0	0	3618	90	2	0	0	3483	87	2	0	0
		Spot/Column	3354	84	3	0	0	3070	77	3	0	0	2955	74	3	0	0
		Type 1 Diffused	3519	88	1	0	1	3222	81	1	0	1	3101	78	1	0	1
		Type 2 Diffused	3217	80	1	0	1	2945	74	1	0	1	2835	71	1	0	1
		Type 3 Diffused	3059	76	1	0	1	2800	70	1	0	1	2695	67	1	0	1
		Type 4 Diffused	3107	78	1	0	1	2844	71	1	0	1	2738	68	1	0	1
4,500	52	Type 1	4982	97	1	0	1	4561	88	1	0	0	4390	84	1	0	0
		Type 2	4675	90	1	0	1	4280	82	1	0	1	4119	79	1	0	1
		Type 3	4812	95	1	0	1	4405	86	1	0	1	4240	82	1	0	1
		Type 4	4569	88	1	0	1	4183	80	1	0	1	4026	77	1	0	1
		Wall Graze	5083	99	3	0	0	4653	89	3	0	0	4479	86	3	0	0
		Spot/Column	4313	84	3	0	0	3948	76	3	0	0	3800	73	3	0	0
		Type 1 Diffused	4526	88	2	0	1	4143	80	1	0	1	3988	77	1	0	1
		Type 2 Diffused	4137	80	1	0	1	3787	73	1	0	1	3645	70	1	0	1
		Type 3 Diffused	3934	76	1	0	1	3601	69	1	0	1	3466	67	1	0	1
		Type 4 Diffused	3996	77	1	0	1	3658	70	1	0	1	3521	68	1	0	1

## ISOLINE TEMPLATES 15' Mounting Height, 15' Grid Spacing



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JOB \_\_\_\_\_  
TYPE \_\_\_\_\_  
NOTES \_\_\_\_\_

# Cypher™ – CY2 Pedestrian Scale

## ELECTRICAL CHARACTERISTICS

Lumen Package	System Wattage (W)	Line Voltage		Input				Min. Power Factor	Max THD (%)	Dimming Range	Source/Sink Current (mA)		Absolute voltage range on 0-10v (+) Purple	
		VAC	Hz	120	277	347	480				Min.	Max.	Min.	Max.
2,500	26	120	50/60	0.2	0.1	0.1	0.1	>0.9	20	10% to 100%	0 mA	1 mA	0V	10V
3,500	40			0.3	0.1	0.1	0.1							
4,500	52			0.4	0.2	0.1	0.1							

## TM-21 LIFETIME CALCULATION (500mA)

Lumen Package	Ambient Environment °C	Projected Lumen Maintenance (Khrs)					Reported L70
		15	25	50	60 (TM-21)	100	
4,500	25	95%	94%	90%	89%	83%	>60Khrs.
	40	93%	91%	84%	82%	73%	



JOB	_____
TYPE	_____
NOTES	_____

## HOUSING

- Main housing shroud shall be fabricated 5052-H32 aluminum alloy
- Housing mounting interface shall have a stamped silicone gasket.
- Luminaire housing shall be free of any visible heat fins, hardware or fasteners.
- Bracketry and hardware shall be stainless steel.

## OPTICAL ARRAY

- LEDs shall be mounted to a metal printed circuit board assembly (MCPCB) with a uniform conformal coating over the panel surface and electrical features.
- Optical lenses shall be clear injection molded PMMA acrylic.
- Optical array shall be recessed in order to shield each LED optic across the length of the aperture.
- Optical array shall be sealed for IP66 rating.
- Secondary lens is impact resistant 5/32" tempered glass.

## ELECTRICAL

- Drivers shall be in direct contact with the die-cast aluminum housing across the entire surface area of the widest face for maximum thermal transfer.
- "Thermal Shield", primary side, thermister provides protection for the sustainable life of LED module and electronic components.
- Drivers shall have greater than a 0.9 power factor, less than 20% harmonic distortion, and be suitable for operation in -40°C to 40°C ambient environments
- Luminaires shall have integral surge protection that shall be U.L. recognized and have a surge current rating of 10,000 Amps using the industry standard 8/20uSec wave and surge rating of 372J. Surge protection device shall be wired in series.
- Drivers shall be U.L. recognized.
- Drivers shall not be compatible with current sourcing dimmers, consult factory for current list of known compatible dimming systems approved dimmers include Lutron Diva AVTV, Lutron Nova NFTV and NTFTV.
- Integral battery backup provides emergency path of egress lighting for the required 90 minutes for -20°C ambient environments.

## SPECIFICATIONS

- Luminaire shall be capable of operating at 100% brightness in a 40°C environment. Both driver and optical array shall have integral thermal protection that will dim the luminaire upon detection of temperatures in excess of 85°C.
- Luminaires not configured with a control system shall be provided with 0-10 purple and gray dimming leads.



## CONTROLS

- Optional universal voltage (120-277V) button photocontrol for dusk to dawn energy savings. Photocontrol is factory installed inside the housing with a fully gasketed sensor on the side wall. For multiple fixture mountings, one fixture is supplied with a photocell to operate the others.
- Wireless enabled fixtures shall support bi-directional radio frequency (RF) communications utilizing IEEE 802.15.4 operating in the 2.4GHZ ISM band.
- Up to 1000' wireless range may be reduced by physical obstructions between lighting fixtures.
- Occupancy Sensor shall programmable and use passive infrared (PIR) sensing technology that reacts to changes in infrared energy (moving body heat) within the coverage area. Careful consideration must be given to obstructions that may block the sensor's line of sight.
- Factory default settings for SCP option shall be:
  - High mode: 10V
  - Low mode: 1V
  - Ramp-up rate: disabled
  - Fade-down rate: disabled
  - Photocell: Off
  - Sensitivity: Full
  - Time Delay: Fade to low: 5 minutes
  - Time Delay: Fade to off: 1 hour
- The SCP enables any wall mounted luminaire, in excess of 30 watts, to meet California Title 24 requirements with integral 10KA surge protection for added reliability and serviceability.

For more detail: [http://www.aal.net/products/sensor\\_control\\_programmable](http://www.aal.net/products/sensor_control_programmable)

- Hubbell Control Solution's wiSCAPE™ In-Fixture Module is a bi-directional wireless RF device that allows an individual fixture to be managed, monitored and metered. The wiSCAPE In-Fixture Module communicates wirelessly over a robust 2.4GHz ISM (Industrial, Scientific and Medical) certified meshed radio signal. The wiSCAPE Fixture Module drastically simplifies control and automation of projects, especially in retrofit environments, and challenges the legacy world of wired-systems. wiSCAPE wireless control technology easily adapts to complex automation situations for quick, simple and economical commissioning. The On-Fixture Module is compatible with A-25-7H option.

- SiteSync™ wireless control system for reduction in energy and maintenance cost while optimizing light quality 24/7. See ordering information or visit [www.hubbellighting.com/products/sitesync](http://www.hubbellighting.com/products/sitesync) for more details.

## BLUETOOTH®

- RGBW option includes integral Bluetooth module, built into driver, that permits the adjustment of luminous front color when paired with Hubbell Remote App via cellular/tablet device.
- Bluetooth Low Energy (BLE) or Bluetooth Smart compatible for both iOS (iOS8 and forward) and Android (Gingerbread and forward) handheld software applications. Compatible with phones and tablets.
- Free Bluetooth Apps are available for Apple iOS and Google Android mobile devices and are downloadable via the internet at Apple App Store or Google Play.

## MOUNTING AND INSTALLATION

- JUNCTION BOX: Standard with zinc-plated, quick-mount junction box plate that mounts directly to 4" J-Box
- Mounting plate features a one-piece EPDM gasket on back side of plate to firmly seal fixture to wall surface, forbidding entry of moisture and particulates.
- Fixture attaches by two Allen-head hidden fasteners for tamper resistance.
- Optional mounting arrangements utilize a die-cast mounting adaptor to allow for surface conduit and through branch wiring.

## SERVICING

- Housing shall be able to hang freely in an open service position for inspection of internal wire connections. Once in service position, the housing shall be able to be removed for service by lifting the assembly up off the rear mounting plate and disconnecting the wiring plugs.
- Driver assembly shall be mounted to a prewired internal tray with quick disconnects for removal.

## FUSING

**SF** for 120, 277, and 347 Line volts  
**DF** for 208, 240, and 480 Line volts  
 High temperature fuse holders factory installed inside the fixture housing.  
 Fuse is included.

## FINISH

- Luminaire finish shall consist of a five stage pretreatment regimen with a polymer primer sealer, oven dry off, and top coated with a thermoset super TGIC polyester powder coat finish.
- Luminaire finish shall meet the AAMA 605.2 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance.

## CERTIFICATION

- Luminaire shall be listed with UL for outdoor, wet location use, UL1598, UL 8750 and Canadian CSA Std. C22.2 no.250.
- IP66 rated assembly
- IDA approved, 3000K and warmer CCTs only.
- DesignLights Consortium® (DLC) qualified. Please refer to the DLC website for specific product qualifications at [www.designlights.org](http://www.designlights.org).
- ANSI C136.31-2010 4G Vibration tested and compliant.
- Complies with "Americans with Disabilities Act" or "ADA" on select versions for low mounting height applications (fixtures extend maximum of 4 inches from wall for mounting heights of 80 inches or less).

## WARRANTY / TERMS AND CONDITIONS OF SALE

Download:

Five year limited warranty (for more information visit: [http:// www.hubbelling.com/resources/warranty/](http://www.hubbelling.com/resources/warranty/))

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Color: Bronze

Weight: 34.8 lbs

<b>Project:</b> Western Products	<b>Type:</b> D
<b>Prepared By:</b> HFR electric inc.	<b>Date:</b> 3-7-19

Driver Info		LED Info	
Type	Constant Current	Watts	105W
120V	0.89A	Color Temp	5000K (Cool)
208V	0.58A	Color Accuracy	70 CRI
240V	0.50A	L70 Lifespan	100,000
277V	0.44A	Lumens	12,476
Input Watts	108.9W	Efficacy	114.6 LPW

## Technical Specifications

### Listings

#### UL Listing:

Suitable for wet locations

#### DLC Listed:

This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities.

DLC Product Code: P0000179D

#### IESNA LM-79 & LM-80 Testing:

RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.

### LED Characteristics

#### Lifespan:

100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations

#### LEDs:

Multi-chip, high-output, long-life LEDs

#### Color Consistency:

7-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color

#### Color Stability:

LED color temperature is warrantied to shift no more than 200K in CCT over a 5-year period

#### Color Uniformity:

RAB's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017.

### Construction

#### IES Classification:

The Type III distribution is ideal for roadway, general parking and other area lighting applications where a larger pool of lighting is required. It is intended to be located near the side of the area, allowing the light to project outward and fill the area.

#### IP Rating:

Ingress Protection rating of IP66 for dust and water

#### Maximum Ambient Temperature:

Suitable for use in 40°C (104°F)

#### Cold Weather Starting:

Minimum starting temperature is -40°C (-40°F)

#### Thermal Management:

Superior thermal management with external "Air-Flow" fins

#### Housing:

Die-cast aluminum housing, lens frame and mounting arm

#### Mounting:

Heavy-duty mounting arm with "O" ring seal & stainless steel screws

#### Reflector:

Specular vacuum-metallized polycarbonate

#### Gaskets:

High-temperature silicone gaskets

#### Finish:

Formulated for high durability and long-lasting color

#### Green Technology:

Mercury and UV free. RoHS-compliant components.

## Technical Specifications (continued)

### Other

#### Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish. RAB's warranty is subject to all terms and conditions found at [www.rablighting.com/legal#warranty](http://www.rablighting.com/legal#warranty)

#### Patents:

The design of WPLED105 is protected by patents pending in US, Canada, China, Taiwan and Mexico

### Buy American Act Compliance:

RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

### Optical

#### BUG Rating:

B1 U0 G2

### Electrical

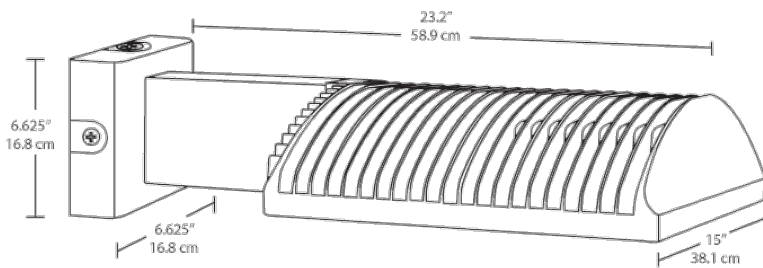
#### Drivers:

Two Drivers, Constant Current, Class 2, 1400mA, 100-277V, 50/60Hz, 0.8A, Power Factor 99%

#### THD:

7.9% at 120V, 16.2% at 277V

## Dimensions



## Features

- High performance LED light engine
- Maintains 70% of initial lumens at 100,000-hours
- Weatherproof high temperature silicone gaskets
- Superior heat sinking with die cast aluminum housing and external fins
- Replaces 400W MH
- 100 up to 277 Volts
- 5-year warranty

## Ordering Matrix

Family	Optics	Wattage	Color Temp	Mounting	Finish	Driver Options	Photocell Options
<b>WPLED</b>	<b>3T</b>	<b>105</b>					
	4T = Type IV	50 = 50W	Blank = 5000K (Cool)	Blank = Arm	Blank = Bronze	Blank = Standard	Blank = Standard
	3T = Type III	78 = 78W	N = 4000K (Neutral)	FX = No Arm	W = White	/480 = 480V	/PC = 120V Photocell
	2T = Type II	105 = 105W	Y = 3000K (Warm)			/BL = Bi-Level	/PC2 = 277V Photocell
		125 = 125W				/D10 = 0-10V Dimming	/PCT = 120-277V Twistlock Photocell
		150 = 150W					/PCT4 = 480V Twistlock Photocell
							/PCS = 120V Swivel Photocell
							/PCS2 = 277V Swivel Photocell
							/PCS4 = 480V Swivel Photocell
							/WS2 = Multi-Level Motion Sensor (20 ft. mt. ht.)
							/WS4 = Multi-Level Motion Sensor (40 ft. mt. ht.)



Color: Bronze

Weight: 32.3 lbs

<b>Project:</b> Western Products	<b>Type:</b> E
<b>Prepared By:</b> HFR electric inc.	<b>Date:</b> 3-7-19

Driver Info		LED Info	
Type	Constant Current	Watts	105W
120V	0.89A	Color Temp	5000K (Cool)
208V	0.58A	Color Accuracy	70 CRI
240V	0.50A	L70 Lifespan	100,000
277V	0.44A	Lumens	12,476
Input Watts	108.9W	Efficacy	114.6 LPW

## Technical Specifications

### Listings

#### UL Listing:

Suitable for wet locations

#### DLC Listed:

This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities.

DLC Product Code: P0000177E

#### IESNA LM-79 & LM-80 Testing:

RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.

#### Dark Sky Conformance:

Conforms to (allows for conformance to) the IDA's fully shielding requirement, emitting no light above 90 degrees (with the exclusion of incidental light reflecting from fixture housing, mounts, and pole).

### LED Characteristics

#### Lifespan:

100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations

#### LEDs:

Multi-chip, high-output, long-life LEDs

#### Color Stability:

LED color temperature is warrantied to shift no more than 200K in CCT over a 5-year period

#### Color Uniformity:

RAB's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017.

### Construction

#### IES Classification:

The Type III distribution is ideal for roadway, general parking and other area lighting applications where a larger pool of lighting is required. It is intended to be located near the side of the area, allowing the light to project outward and fill the area.

#### Effective Projected Area:

EPA = 0.75

#### Maximum Ambient Temperature:

Suitable for use in 40°C (104°F)

#### Cold Weather Starting:

Minimum starting temperature is -40°C (-40°F)

#### Thermal Management:

Superior thermal management with external "Air-Flow" fins

#### Lens:

Tempered glass lens

#### Housing:

Die-cast aluminum housing, lens frame and mounting arm

#### Mounting:

Universal mounting arm compatible for hole spacing patterns from 1" to 5 1/2" center to center. Round Pole Adaptor plate included as a standard. Easy slide and lock to mount fixture with ease. Round pole diameter must be >4" to mount fixtures at 90° orientation.

#### Reflector:

Specular vacuum-metallized polycarbonate

#### Gaskets:

High-temperature silicone gaskets

#### IP Rating:

Ingress Protection rating of IP66 for dust and water

## Technical Specifications (continued)

### Construction

#### Finish:

Formulated for high durability and long-lasting color

#### Green Technology:

Mercury and UV free. RoHS-compliant components.

### Electrical

#### Surge Protection:

4kV

#### Drivers:

Two Drivers, Constant Current, Class 2, 1400mA, 100-277V, 50/60Hz, 0.8A, Power Factor 99%

#### THD:

7.9% at 120V, 16.2% at 277V

#### Power Factor:

99.6% at 120V, 94.5% at 277V

### Other

#### Compatibility:

Compatible with Round Poles with a diameter of 2.5" to 6"

#### BAA Compliance:

Click [www.rablighting.com/product/ALED3T105](http://www.rablighting.com/product/ALED3T105) USA for BAA compliance.

### Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish. RAB's warranty is subject to all terms and conditions found at [www.rablighting.com/legal#warranty](http://www.rablighting.com/legal#warranty)

### Equivalency:

Replaces 320W Metal Halide

### Buy American Act Compliance:

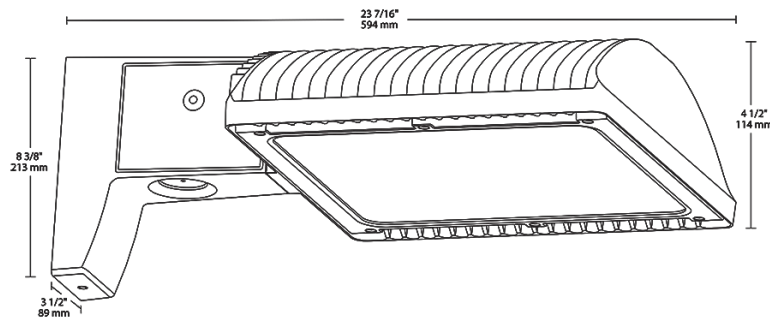
RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

### Optical

#### BUG Rating:

B1 U0 G2

## Dimensions



## Features

- 66% energy cost savings vs. HID
- 100,000-hour LED lifespan
- 5-year warranty

## Ordering Matrix

Family	Optics	Wattage	Mounting	Color Temp	Finish	Driver Options	Options	Other Options
<b>ALED</b>	<b>3T</b>	<b>105</b>						
4T = Type IV	50 = 50W 78 = 78W	<b>Blank = Pole mount</b>	<b>Blank = 5000K (Cool)</b>	<b>Blank = Bronze</b>	<b>Blank = 120-277V</b>	<b>Blank = No Option</b>	<b>Blank = Standard</b>	
3T = Type III	<b>105 = 105W</b>	SF = Slipfitter	N = 4000K (Neutral)	RG = Roadway Gray	/480 = 480V	/LC = Lightcloud® Controller	USA = BAA Compliant	
2T = Type II	125 = 125W 150 = 150W		Y = 3000K (Warm)	W = White	/BL = Bi-Level	/PCS = 120V Swivel Photocell		
				K = Black	/D10 = 0-10V Dimming	/PCS2 = 277V Swivel Photocell		
						/PCT = 120-277V Twistlock Photocell		
						/PCS4 = 480V Swivel Photocell		
						/PCT4 = 480V Twistlock Photocell		
						/WS2 = Multi-Level Motion Sensor 20 ft.		
						/WS4 = Multi-Level Motion Sensor 40 ft.		





Color: Bronze

Weight: 32.9 lbs

<b>Project:</b> Western Products	<b>Type:</b> F
<b>Prepared By:</b> HFR electric inc.	<b>Date:</b> 3-7-19

Driver Info		LED Info	
Type	Constant Current	Watts	150W
120V	1.31A	Color Temp	5000K (Cool)
208V	0.80A	Color Accuracy	71 CRI
240V	0.69A	L70 Lifespan	100,000
277V	0.60A	Lumens	18,464
Input Watts	155.8W	Efficacy	118.5 LPW

## Technical Specifications

### Listings

#### UL Listing:

Suitable for wet locations

#### DLC Listed:

This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities.

DLC Product Code: P0000175F

#### IESNA LM-79 & LM-80 Testing:

RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.

#### Dark Sky Conformance:

Conforms to (allows for conformance to) the IDA's fully shielding requirement, emitting no light above 90 degrees (with the exclusion of incidental light reflecting from fixture housing, mounts, and pole).

### LED Characteristics

#### Lifespan:

100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations

#### LEDs:

Multi-chip, high-output, long-life LEDs

#### Color Consistency:

7-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color

#### Color Stability:

LED color temperature is warranted to shift no more than 200K in CCT over a 5-year period

#### Color Uniformity:

RAB's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017.

### Construction

#### IES Classification:

The Type IV distribution (also known as a Forward Throw) is especially suited for mounting on the sides of buildings and walls, and for illuminating the perimeter of parking areas. It produces a semiCircular distribution with essentially the same candlepower at lateral angles from 90° to 270°.

#### Effective Projected Area:

EPA = 0.75

#### Maximum Ambient Temperature:

Suitable for use in 40°C (104°F)

#### Cold Weather Starting:

Minimum starting temperature is -40°C (-40°F)

#### Thermal Management:

Superior thermal management with external "Air-Flow" fins

#### Lens:

Tempered glass lens

#### Housing:

Die-cast aluminum housing, lens frame and mounting arm

#### IP Rating:

Ingress Protection rating of IP66 for dust and water

#### Mounting:

Universal mounting arm compatible for hole spacing patterns from 1" to 5 1/2" center to center. Round Pole Adaptor plate included as a standard. Easy slide and lock to mount fixture with ease. Round pole diameter must be >4" to mount fixtures at 90° orientation.

#### Reflector:

Specular vacuum-metallized polycarbonate

## Technical Specifications (continued)

### Construction

#### Gaskets:

High-temperature silicone gaskets

#### Finish:

Formulated for high durability and long-lasting color

#### Green Technology:

Mercury and UV free. RoHS-compliant components.

### Electrical

#### Surge Protection:

4kV

#### Driver:

One Driver, Constant Current, Class 2, 2100mA 100-277V, 50-60Hz, Power Factor 99%

#### THD:

4.7% at 120V, 13.3% at 277V

#### Power Factor:

99.5% at 120V, 93.7% at 277V

### Optical

#### BUG Rating:

B1 U0 G3

### Other

#### BAA Compliance:

Click [www.rablighting.com/product/ALED4T150](http://www.rablighting.com/product/ALED4T150) USA for BAA compliance.

#### Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish. RAB's warranty is subject to all terms and conditions found at [www.rablighting.com/legal#warranty](http://www.rablighting.com/legal#warranty)

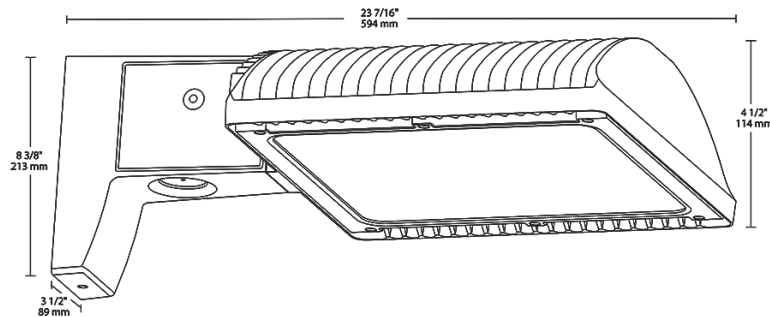
#### Equivalency:

Equivalent to 400W Metal Halide

#### Buy American Act Compliance:

RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

## Dimensions



## Features

66% energy cost savings vs. HID

100,000-hour LED lifespan

5-year warranty

## Ordering Matrix

Family	Optics	Wattage	Mounting	Color Temp	Finish	Driver Options	Options	Other Options
<b>ALED</b>	<b>4T</b>	<b>150</b>						
	<b>4T = Type IV</b>	<b>50 = 50W 78 = 78W</b>	<b>Blank = Pole mount</b>	<b>Blank = 5000K (Cool)</b>	<b>Blank = Bronze</b>	<b>Blank = 120-277V</b>	<b>Blank = No Option</b>	<b>Blank = Standard</b>
	<b>3T = Type III</b>	<b>105 = 105W</b>	<b>SF = Slipfitter</b>	<b>N = 4000K (Neutral)</b>	<b>RG = Roadway Gray</b>	<b>/480 = 480V</b>	<b>/LC = Lightcloud® Controller</b>	<b>USA = BAA Compliant</b>
	<b>2T = Type II</b>	<b>125 = 125W</b>		<b>Y = 3000K (Warm)</b>	<b>W = White</b>	<b>/BL = Bi-Level</b>	<b>/PCS = 120V Swivel Photocell</b>	
		<b>150 = 150W</b>			<b>K = Black</b>	<b>/D10 = 0-10V Dimming</b>	<b>/PCS2 = 277V Swivel Photocell</b>	
							<b>/PCT = 120-277V Twistlock Photocell</b>	
							<b>/PCS4 = 480V Swivel Photocell</b>	
							<b>/PCT4 = 480V Twistlock Photocell</b>	
							<b>/WS2 = Multi-Level Motion Sensor 20 ft.</b>	
							<b>/WS4 = Multi-Level Motion Sensor 40 ft.</b>	



Color: Bronze

Weight: 32.9 lbs

<b>Project:</b> Western Products	<b>Type:</b> G
<b>Prepared By:</b> HFR electric inc.	<b>Date:</b> 3-7-19

Driver Info		LED Info	
Type	Constant Current	Watts	150W
120V	1.31A	Color Temp	5000K (Cool)
208V	0.80A	Color Accuracy	71 CRI
240V	0.69A	L70 Lifespan	100,000
277V	0.60A	Lumens	18,464
Input Watts	155.8W	Efficacy	118.5 LPW

## Technical Specifications

### Listings

#### UL Listing:

Suitable for wet locations

#### DLC Listed:

This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities.

DLC Product Code: P0000175F

#### IESNA LM-79 & LM-80 Testing:

RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.

#### Dark Sky Conformance:

Conforms to (allows for conformance to) the IDA's fully shielding requirement, emitting no light above 90 degrees (with the exclusion of incidental light reflecting from fixture housing, mounts, and pole).

### LED Characteristics

#### Lifespan:

100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations

#### LEDs:

Multi-chip, high-output, long-life LEDs

#### Color Consistency:

7-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color

#### Color Stability:

LED color temperature is warranted to shift no more than 200K in CCT over a 5-year period

#### Color Uniformity:

RAB's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017.

### Construction

#### IES Classification:

The Type IV distribution (also known as a Forward Throw) is especially suited for mounting on the sides of buildings and walls, and for illuminating the perimeter of parking areas. It produces a semiCircular distribution with essentially the same candlepower at lateral angles from 90° to 270°.

#### Effective Projected Area:

EPA = 0.75

#### Maximum Ambient Temperature:

Suitable for use in 40°C (104°F)

#### Cold Weather Starting:

Minimum starting temperature is -40°C (-40°F)

#### Thermal Management:

Superior thermal management with external "Air-Flow" fins

#### Lens:

Tempered glass lens

#### Housing:

Die-cast aluminum housing, lens frame and mounting arm

#### IP Rating:

Ingress Protection rating of IP66 for dust and water

#### Mounting:

Universal mounting arm compatible for hole spacing patterns from 1" to 5 1/2" center to center. Round Pole Adaptor plate included as a standard. Easy slide and lock to mount fixture with ease. Round pole diameter must be >4" to mount fixtures at 90° orientation.

#### Reflector:

Specular vacuum-metallized polycarbonate

## Technical Specifications (continued)

### Construction

#### Gaskets:

High-temperature silicone gaskets

#### Finish:

Formulated for high durability and long-lasting color

#### Green Technology:

Mercury and UV free. RoHS-compliant components.

### Electrical

#### Surge Protection:

4kV

#### Driver:

One Driver, Constant Current, Class 2, 2100mA 100-277V, 50-60Hz, Power Factor 99%

#### THD:

4.7% at 120V, 13.3% at 277V

#### Power Factor:

99.5% at 120V, 93.7% at 277V

### Optical

#### BUG Rating:

B1 U0 G3

### Other

#### BAA Compliance:

Click [www.rablighting.com/product/ALED4T150](http://www.rablighting.com/product/ALED4T150) USA for BAA compliance.

#### Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish. RAB's warranty is subject to all terms and conditions found at [www.rablighting.com/legal#warranty](http://www.rablighting.com/legal#warranty)

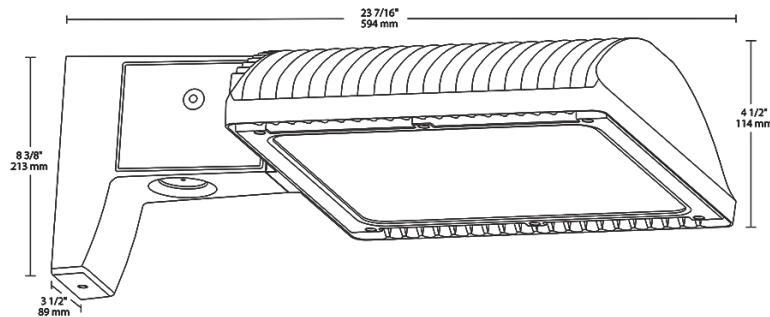
#### Equivalency:

Equivalent to 400W Metal Halide

#### Buy American Act Compliance:

RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

## Dimensions



## Features

66% energy cost savings vs. HID

100,000-hour LED lifespan

5-year warranty

## Ordering Matrix

Family	Optics	Wattage	Mounting	Color Temp	Finish	Driver Options	Options	Other Options
<b>ALED</b>	<b>4T</b>	<b>150</b>						
	<b>4T = Type IV</b>	<b>50 = 50W 78 = 78W</b>	<b>Blank = Pole mount</b>	<b>Blank = 5000K (Cool)</b>	<b>Blank = Bronze</b>	<b>Blank = 120-277V</b>	<b>Blank = No Option</b>	<b>Blank = Standard</b>
	<b>3T = Type III</b>	<b>105 = 105W</b>	<b>SF = Slipfitter</b>	<b>N = 4000K (Neutral)</b>	<b>RG = Roadway Gray</b>	<b>/480 = 480V</b>	<b>/LC = Lightcloud® Controller</b>	<b>USA = BAA Compliant</b>
	<b>2T = Type II</b>	<b>125 = 125W</b>		<b>Y = 3000K (Warm)</b>	<b>W = White</b>	<b>/BL = Bi-Level</b>	<b>/PCS = 120V Swivel Photocell</b>	
		<b>150 = 150W</b>			<b>K = Black</b>	<b>/D10 = 0-10V Dimming</b>	<b>/PCS2 = 277V Swivel Photocell</b>	
							<b>/PCT = 120-277V Twistlock Photocell</b>	
							<b>/PCS4 = 480V Swivel Photocell</b>	
							<b>/PCT4 = 480V Twistlock Photocell</b>	
							<b>/WS2 = Multi-Level Motion Sensor 20 ft.</b>	
							<b>/WS4 = Multi-Level Motion Sensor 40 ft.</b>	



Color: Bronze

Weight: 34.8 lbs

<b>Project:</b> Western Products	<b>Type:</b> H
<b>Prepared By:</b> HFR electric inc.	<b>Date:</b> 3-7-19

Driver Info		LED Info	
Type	Constant Current	Watts	150W
120V	1.31A	Color Temp	5000K (Cool)
208V	0.80A	Color Accuracy	71 CRI
240V	0.69A	L70 Lifespan	100,000
277V	0.60A	Lumens	18,464
Input Watts	155.8W	Efficacy	118.5 LPW

## Technical Specifications

### Listings

#### UL Listing:

Suitable for wet locations

#### DLC Listed:

This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities.

DLC Product Code: P0000174K

#### IESNA LM-79 & LM-80 Testing:

RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.

### LED Characteristics

#### Lifespan:

100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations

#### LEDs:

Multi-chip, high-output, long-life LEDs

#### Color Consistency:

7-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color

#### Color Stability:

LED color temperature is warranted to shift no more than 200K in CCT over a 5-year period

#### Color Uniformity:

RAB's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017.

### Construction

#### IES Classification:

The Type IV distribution (also known as a Forward Throw) is especially suited for mounting on the sides of buildings and walls, and for illuminating the perimeter of parking areas. It produces a semiCircular distribution with essentially the same candlepower at lateral angles from 90° to 270°.

#### IP Rating:

Ingress Protection rating of IP66 for dust and water

#### Maximum Ambient Temperature:

Suitable for use in 40°C (104°F)

#### Cold Weather Starting:

Minimum starting temperature is -40°C (-40°F)

#### Thermal Management:

Superior thermal management with external "Air-Flow" fins

#### Housing:

Die-cast aluminum housing, lens frame and mounting arm

#### Mounting:

Heavy-duty mounting arm with "O" ring seal & stainless steel screws

#### Reflector:

Specular vacuum-metallized polycarbonate

#### Gaskets:

High-temperature silicone gaskets

#### Finish:

Formulated for high durability and long-lasting color

#### Green Technology:

Mercury and UV free. RoHS-compliant components.

## Technical Specifications (continued)

### Other

#### Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish. RAB's warranty is subject to all terms and conditions found at [www.rablighting.com/legal#warranty](http://www.rablighting.com/legal#warranty)

#### Patents:

The design of WPLED150 is protected by patents pending in US, Canada, China, Taiwan and Mexico

### Buy American Act Compliance:

RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

### Optical

#### BUG Rating:

B1 U0 G3

### Electrical

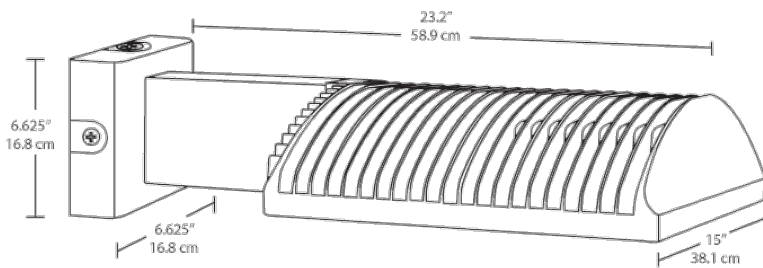
#### Driver:

One Driver, Constant Current, Class 2, 2100mA 100-277V, 50-60Hz, Power Factor 99%

#### THD:

4.7% at 120V, 13.3% at 277V

## Dimensions

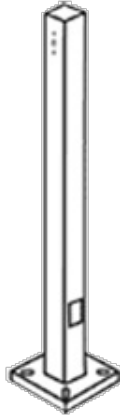


## Features

- High performance LED light engine
- Maintains 70% of initial lumens at 100,000-hours
- Weatherproof high temperature silicone gaskets
- Superior heat sinking with die cast aluminum housing and external fins
- Replaces 400W MH
- 100 up to 277 Volts
- 5-year warranty

## Ordering Matrix

Family	Optics	Wattage	Color Temp	Mounting	Finish	Driver Options	Photocell Options
<b>WPLED</b>	<b>4T</b>	<b>150</b>					
	4T = Type IV	50 = 50W	Blank = 5000K (Cool)	Blank = Arm	Blank = Bronze	Blank = Standard	Blank = Standard
	3T = Type III	78 = 78W	N = 4000K (Neutral)	FX = No Arm	W = White	/480 = 480V	/PC = 120V Photocell
	2T = Type II	105 = 105W	Y = 3000K (Warm)			/BL = Bi-Level	/PC2 = 277V Photocell
		125 = 125W				/D10 = 0-10V Dimming	/PCT = 120-277V Twistlock Photocell
		<b>150 = 150W</b>					/PCT4 = 480V Twistlock Photocell
							/PCS = 120V Swivel Photocell
							/PCS2 = 277V Swivel Photocell
							/PCS4 = 480V Swivel Photocell
							/WS2 = Multi-Level Motion Sensor (20 ft. mt. ht.)
							/WS4 = Multi-Level Motion Sensor (40 ft. mt. ht.)



Square steel poles drilled for 2 Area Lights at 180°. Designed for ground mounting. Poles are stocked nationwide for quick shipment. Protective packaging ensures poles arrive at the job site good as new.

Color: Bronze

Weight: 136.7 lbs

<b>Project:</b> Western Products	<b>Type:</b> 20' Pole
<b>Prepared By:</b> HFR electric inc.	<b>Date:</b> 3-7-19

**Technical Specifications**

**Listings**

**CSA Listed:**

Suitable for wet locations

**Construction**

**Shaft:**

46,000 p.s.i. minimum yield.

**Hand Holes:**

Reinforced with grounding lug and removable cover

**Base Plates:**

Slotted base plates 36,000 p.s.i.

**Shipping Protection:**

All poles are shipped in individual corrugated cartons to prevent finish damage

**Color:**

Bronze powder coating

**Height:**

20 FT

**Weight:**

137 lbs

**Gauge:**

11

**Wall Thickness:**

1/8"

**Shaft Size:**

4"

**Hand Hole Dimensions:**

3" x 5"

**Bolt Circle:**

8 1/2"

**Base Dimension:**

8"

**Anchor Bolt:**

Galvanized anchor bolts and galvanized hardware and anchor bolt template. All bolts have a 3" hook.

**Anchor Bolt Templates:**

WARNING Template must be printed on 11" x 17" sheet for actual size. CHECK SCALE BEFORE USING. Templates shipped with anchor bolts and available [www.rablighting.com/downloads/instructions/poles4.pdf](http://www.rablighting.com/downloads/instructions/poles4.pdf) target="\_blank".

**Pre-Shipped Anchor Bolts:**

Bolts can be pre-shipped upon request for additional freight charge

**Max EPA's/Max Weights:**

- 70MPH 8.3 ft./240 lb.
- 80MPH 5.6 ft./165 lb.
- 90MPH 3.6 ft./110 lb.
- 100MPH 2.2 ft./75 lb.
- 110MPH 1.0 ft./45 lb.
- 120MPH 0.2 ft./20 lb..

**Accessories:**

Anchor Bolts: [www.rablighting.com/product/ABK4-11](http://www.rablighting.com/product/ABK4-11)

**Technical Specifications (continued)**

**Other**

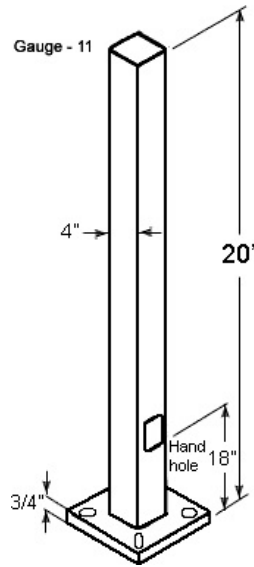
**Terms of Sale:**

Pole Terms of Sale is available .

**Buy American Act Compliance:**

RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

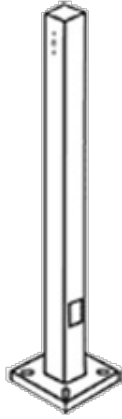
Dimensions



Features

- Designed for ground mounting
- Heavy duty TGIC polyester coating
- Reinforced hand holes with grounding lug and removable cover for easy wiring access
- Anchor Bolt Kit includes pole cap and base cover (sold separately)
- Custom manufactured for each application





Square steel poles drilled for 2 Area Lights at 180°. Designed for ground mounting. Poles are stocked nationwide for quick shipment. Protective packaging ensures poles arrive at the job site good as new.

Color: Bronze

Weight: 167.6 lbs

<b>Project:</b> Western Products	<b>Type:</b> 25' Pole
<b>Prepared By:</b> HFR electric inc.	<b>Date:</b> 3-7-19

**Technical Specifications**

**Listings**

**CSA Listed:**

Suitable for wet locations

**Construction**

**Shaft:**

46,000 p.s.i. minimum yield.

**Hand Holes:**

Reinforced with grounding lug and removable cover

**Base Plates:**

36,000 p.s.i. minimum yield.

**Shipping Protection:**

All poles are shipped in individual corrugated cartons to prevent finish damage

**Color:**

Bronze powder coating

**Height:**

25 FT

**Weight:**

168 lbs

**Gauge:**

11

**Wall Thickness:**

1/8"

**Shaft Size:**

4"

**Hand Hole Dimensions:**

3" x 5"

**Bolt Circle:**

8 1/2"

**Base Dimension:**

8"

**Anchor Bolt:**

Galvanized anchor bolts and galvanized hardware and anchor bolt template. All bolts have a 3" hook.

**Anchor Bolt Templates:**

WARNING Template must be printed on 11" x 17" sheet for actual size. CHECK SCALE BEFORE USING. Templates shipped with anchor bolts and available [www.rablighting.com/downloads/instructions/poles4.pdf](http://www.rablighting.com/downloads/instructions/poles4.pdf) target="\_blank".

**Pre-Shipped Anchor Bolts:**

Bolts can be pre-shipped upon request for additional freight charge

**Max EPA's/Max Weights:**

70MPH 4.5 ft./135 lb.  
80MPH 2.3 ft./80 lb.  
90MPH 0.8 ft./35 lb..

**Accessories:**

Anchor Bolts: [www.rablighting.com/product/ABK4-11](http://www.rablighting.com/product/ABK4-11)

**Technical Specifications (continued)**

**Other**

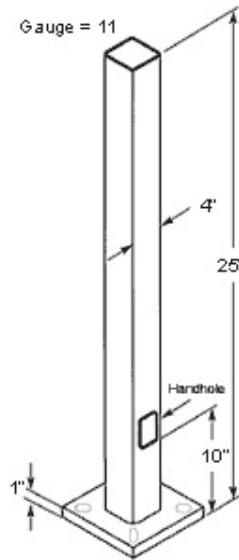
**Terms of Sale:**

Pole Terms of Sale is available .

**Buy American Act Compliance:**

RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

## Dimensions



## Features

- Designed for ground mounting
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- Anchor Bolt Kit includes pole cap and base cover (sold separately)
- Custom manufactured for each application



**BRIOHN**

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