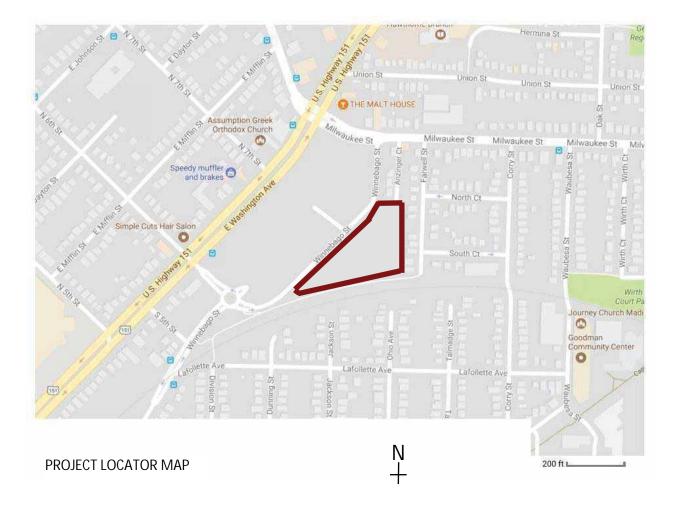
GRAND FAMILY HOUSING

Union Corners Grand family project is a new construction development consisting of a mix of affordable and market-rate units for families. Specifically, this development will be targeting grand families (grandparents raising grandchildren) and kinship families (family members raising other family members' children). The project will include 59 units total between two buildings, both three stories in height. The buildings will have access to underground parking with apartments and community space above. The project will also include the following interior amenities: community room, supportive service office, business center, and fitness center. In addition, additional community space is anticipated to serve a mix of residents ranging from children to seniors. Outdoor space will include a playground and community gardens. The project is the third piece of a master development on this site by Gorman & Company, Inc. who acquired a 5 acre parcel from the City of Madison in exchange for implementing the master development. Previous phases include the UW Health Clinic and a 90-unit, multi-family, mixed-income development.

The Grand family project includes a partnership with Lutheran Social Services (LSS) to provide supportive services. Space on the first floor has been designed to accommodate these services on-site.



SCALE:	GRAND FAMILY HOUSING	NAMAOC
Sheet Name		CONTRACTOR DE LA CONTRA
	UNION CORNERS - MADISON WI.	REAL ESTATE DEVELOPMENT AND MANGEMENT 200 N MAIN STRFFT
JULY 19, 2017	A Gorman & Company Neighborhood	OREGON, WI 53575



COMMUNITY GARDEN LOCATION - NORTH EAST CORNER OF SITE



BIKE PATH LOOKING WEST - MIDDLE OF SITE

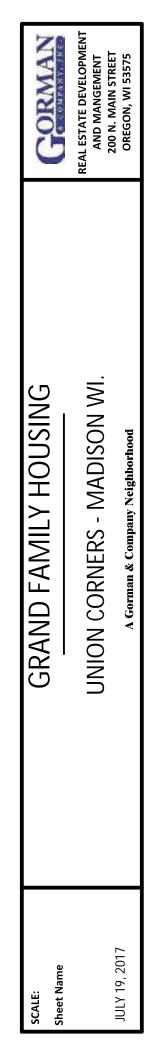


BIKE PATH LOOKING EAST - WEST CORNER OF SITE



BIKE PATH LOOKING WEST - EAST CORNER OF SITE

SITE CONTEXT





SIMPLE TWO STORY MASONRY BUILDING CORNER OF WINNEBAGO AND MILWAUKEE



NEWLY BUILT APARTMENTS ACROSS WINNEBAGO FROM SITE LOOKING EAST



METAL QUONSET HUT TYPICAL EAST SIDE ECLECTIC AESTHETIC



NEWLY BUILT APARTMENTS ACROSS WINNEBAGO FROM SITE LOOKING WEST

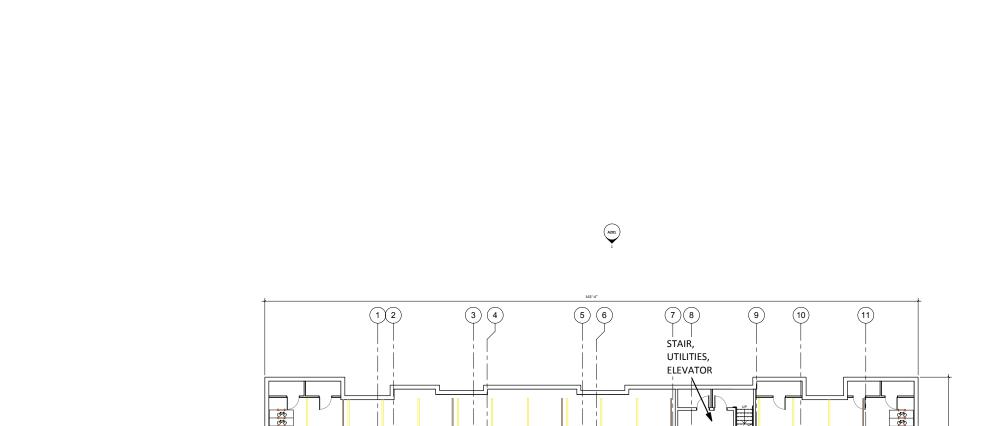
ADJACENT BUILDING CONTEXT

CALE: heet Name	GRAND FAMILY HOUSING	GORMAN
	UNION CORNERS - MADISON WI.	REAL ESTATE DEVELOPMENT AND MANGEMENT 200 N. MAIN STREET
JLI 17, 2017	A Gorman & Company Neighborhood	OREGON, WI 53575



Union Corners GrandFamily Concept





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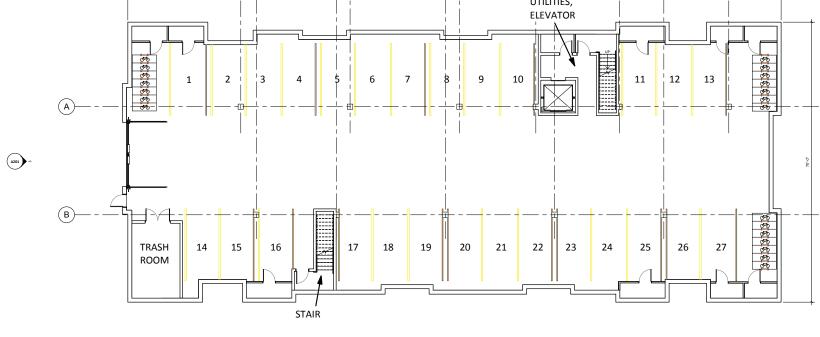
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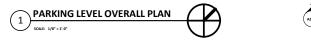
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REAL ESTATE DEVELOPMENT & MANAGEMENT 200 N. MAIN STREET OREGON, WI 53575

GRAND FAMILY - BUILDING #6 at UNION CORNERS WINNEBAGO STREET MADISION, WI 53704

Project No.	Project Number
Plot Date:	12/20/2017 9:31:34 AM
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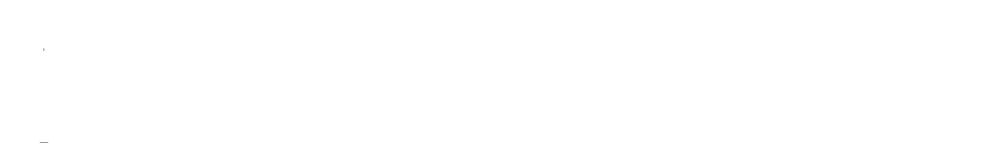
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Date Issue Description

Sheet Title PARKING LEVEL PLAN -OVERALL

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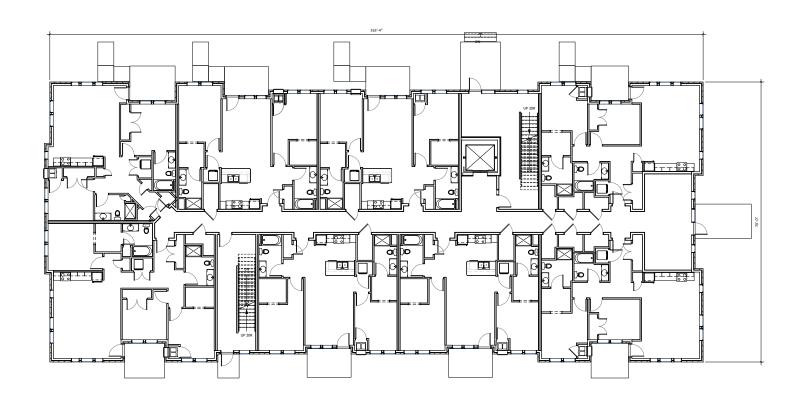
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REAL ESTATE DEVELOPMENT & MANAGEMENT 200 N. MAIN STREET OREGON, WI 53575

GRAND FAMILY - BUILDING #6 at UNION CORNERS WINNEBAGO STREET MADISION, WI 53704

Project No.	Project Number
Plot Date:	12/20/2017 9:31:34 AM
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Sheet Title GROUND FLOOR PLAN -OVERALL



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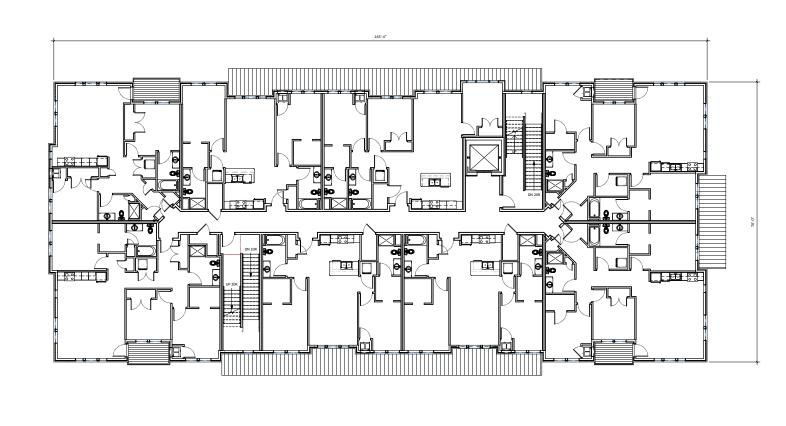
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1 Scale: 1/8"= 1'-0" \bigcirc

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REAL ESTATE DEVELOPMENT & MANAGEMENT 200 N. MAIN STREET OREGON, WI 53575

GRAND FAMILY - BUILDING #6 at UNION CORNERS WINNEBAGO STREET MADISION, WI 53704

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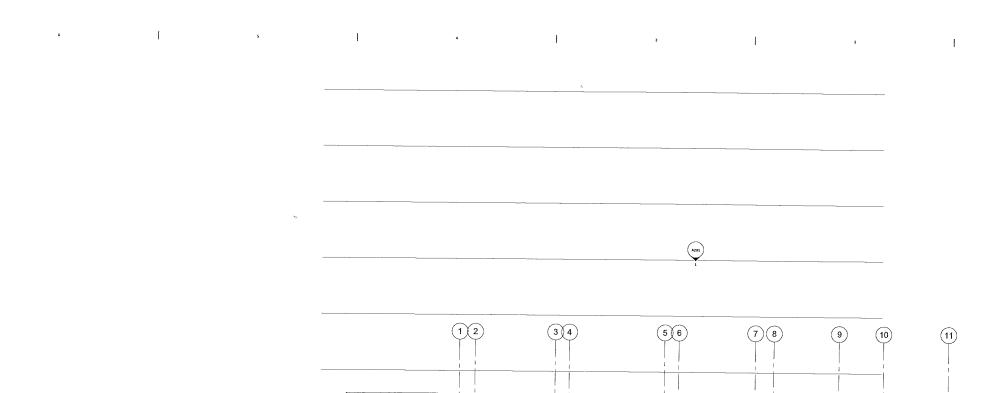
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Issue Description

Sheet Title 2ND FLOOR PLAN -OVERALL



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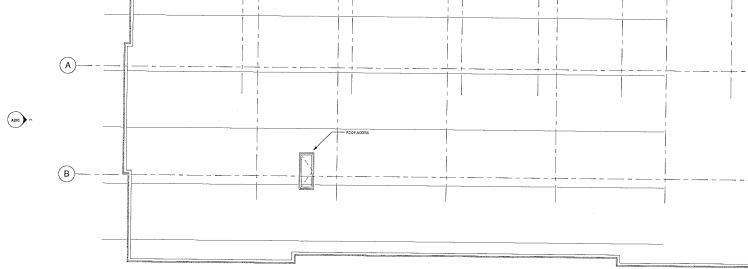
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ROOF PARAPET SCALE: 1/8" = 1'-0"

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REAL ESTATE DEVELOPMENT & MANAGEMENT 200 N. MAIN STREET OREGON, WI 53575

GRAND FAMILY - BUILDING #6 at UNION CORNERS WINNEBAGO STREET MADISION, WI 53704

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9	Schematic		
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Sheet Title ROOF PLAN - OVERALL

















REAL ESTATE DEVELOPMENT & MANAGEMENT 200 N. MAIN STREET OREGON, WI 53575



GRAND FAMILY - BUILDING #6 at UNION CORNERS WINNEBAGO STREET MADISION, WI 53704

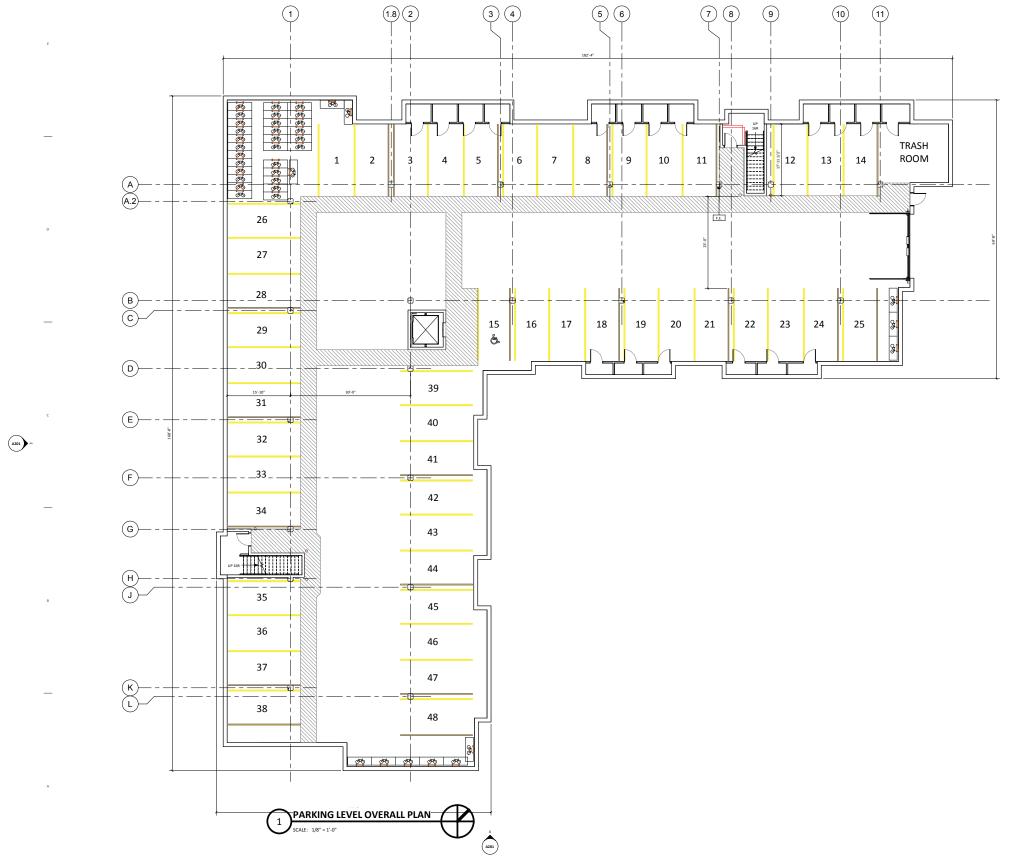
Schematic		
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Date Issue Description

Sheet Title EXTERIOR BUILDING

ELEVATIONS

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REAL ESTATE DEVELOPMENT & MANAGEMENT 200 N. MAIN STREET OREGON, WI 53575

GRAND FAMILY - BUILDING #7 at UNION CORNERS WINNEBAGO STREET MADISON, WI 53704

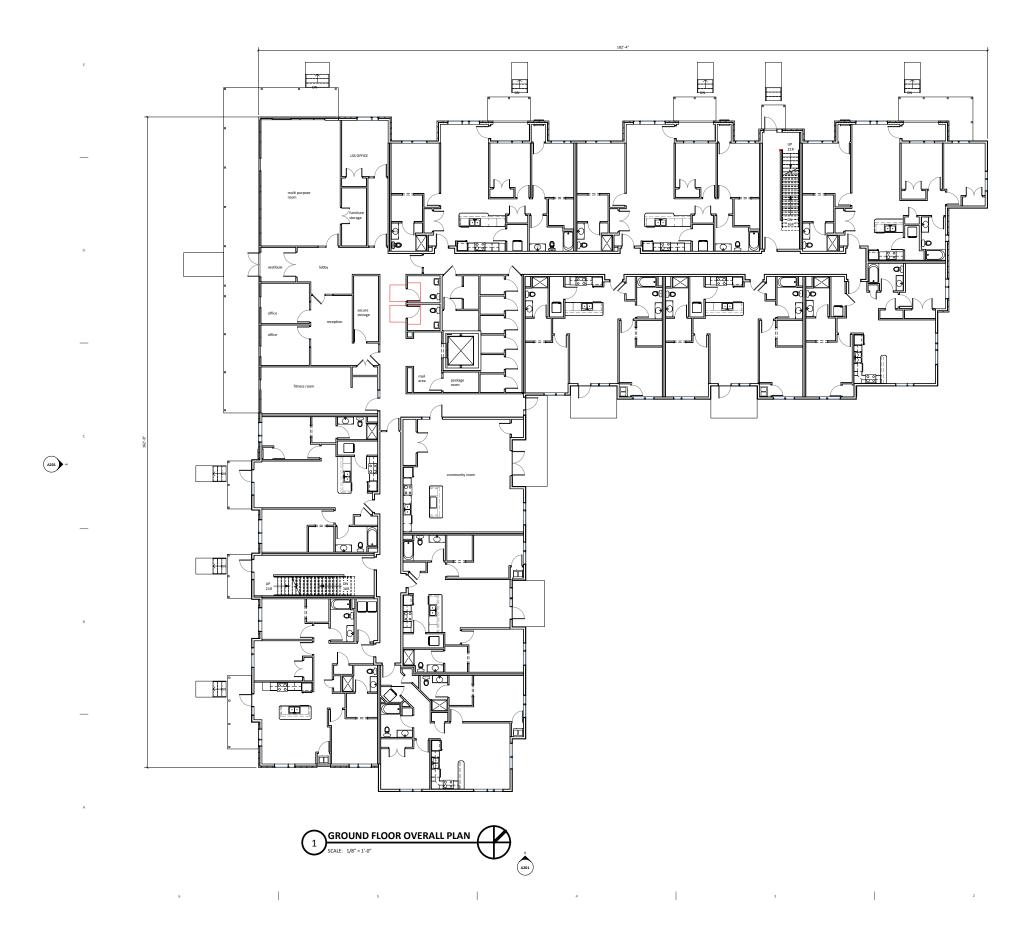
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Issue Description

Sheet Title PARKING LEVEL PLAN -OVERALL

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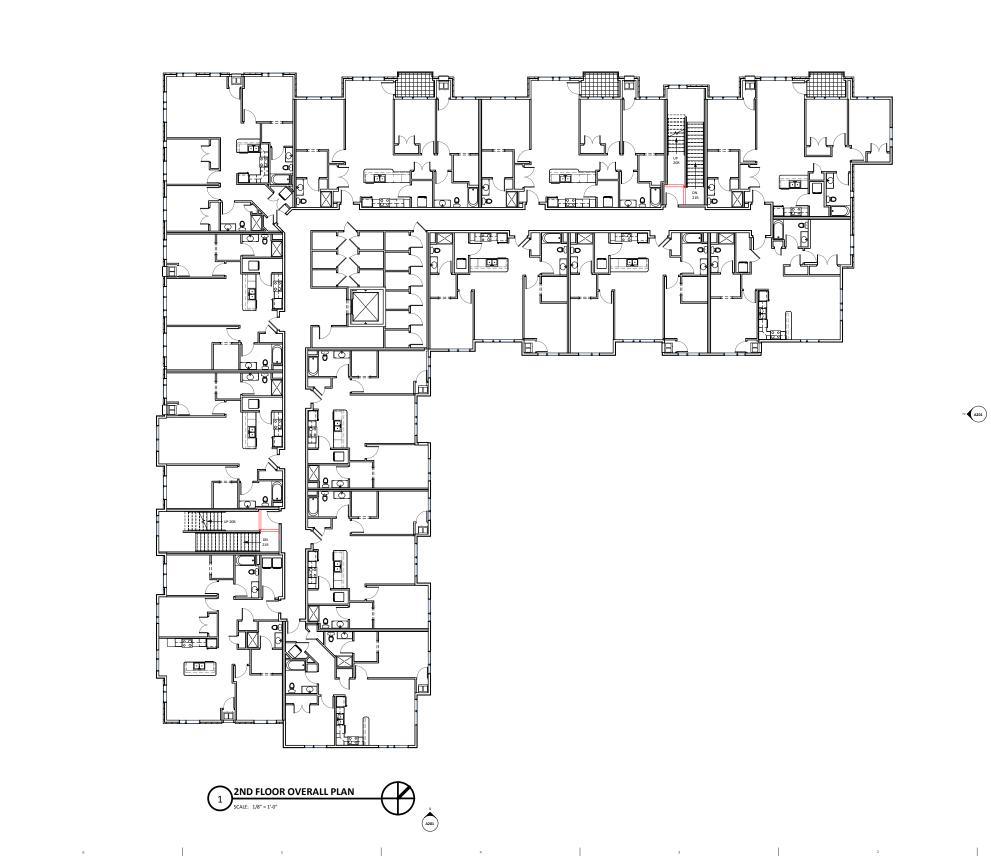
REAL ESTATE DEVELOPMENT & MANAGEMENT 200 N. MAIN STREET OREGON, WI 53575

GRAND FAMILY - BUILDING #7 at UNION CORNERS WINNEBAGO STREET MADISON, WI 53704

Project No.	Project Number
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Sheet Title GROUND FLOOR PLAN -OVERALL



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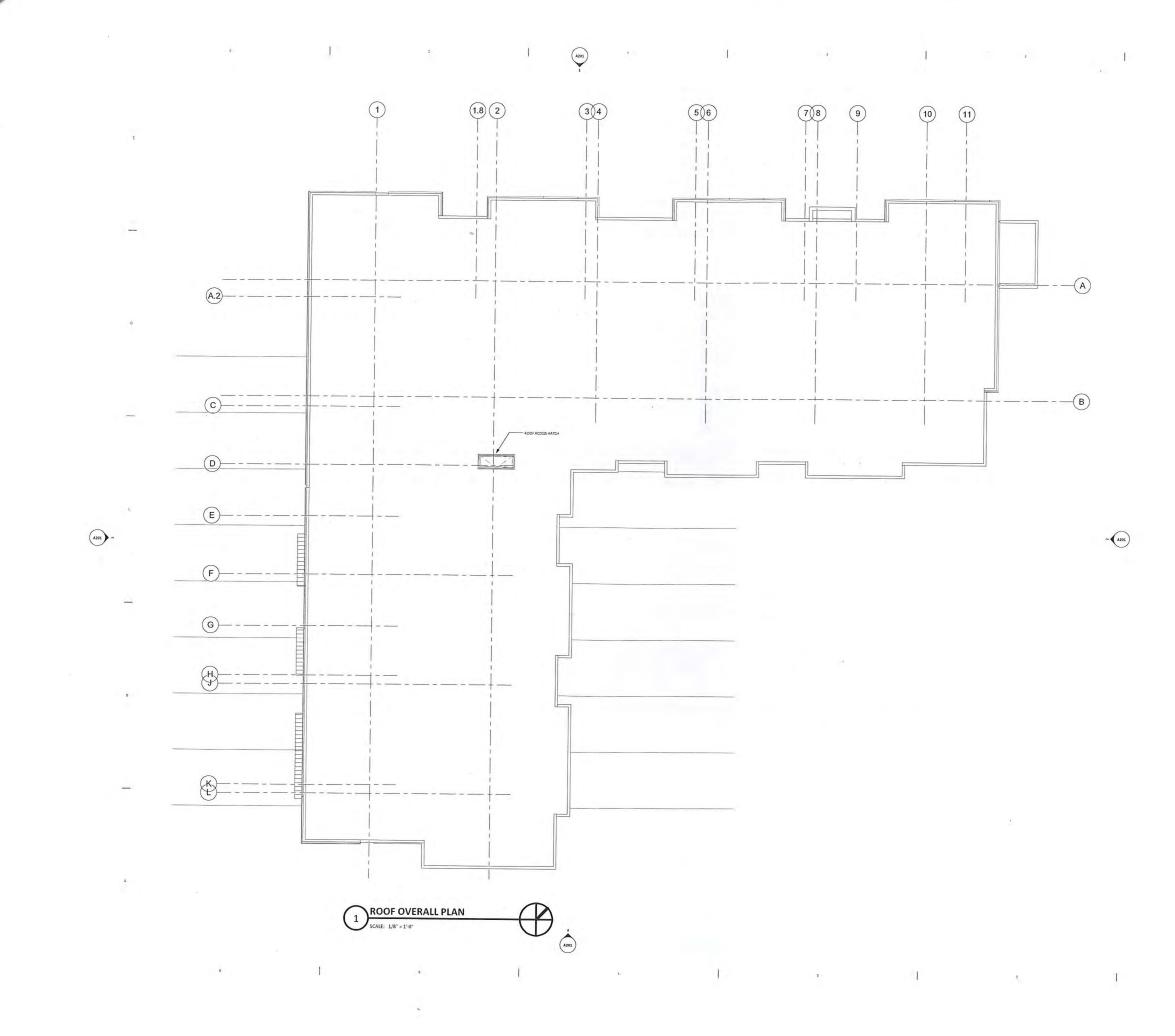
REAL ESTATE DEVELOPMENT & MANAGEMENT 200 N. MAIN STREET OREGON, WI 53575

GRAND FAMILY - BUILDING #7 at UNION CORNERS WINNEBAGO STREET MADISON, WI 53704

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Sheet Title 2ND FLOOR PLAN -OVERALL





REAL ESTATE DEVELOPMENT & MANAGEMENT 200 N. MAIN STREET OREGON, WI 53575

GRAND FAMILY - BUILDING #7 at UNION CORNERS WINNEBAGO STREET MADISON, WI 53704

Project No.	Project Number
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ROOF PLAN - OVERALL

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Sheet Title

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REAL ESTATE DEVELOPMENT & MANAGEMENT 200 N. MAIN STREET OREGON, WI 53575

GRAND FAMILY - BUILDING #7 at UNION CORNERS WINNEBAGO STREET MADISON, WI 53704

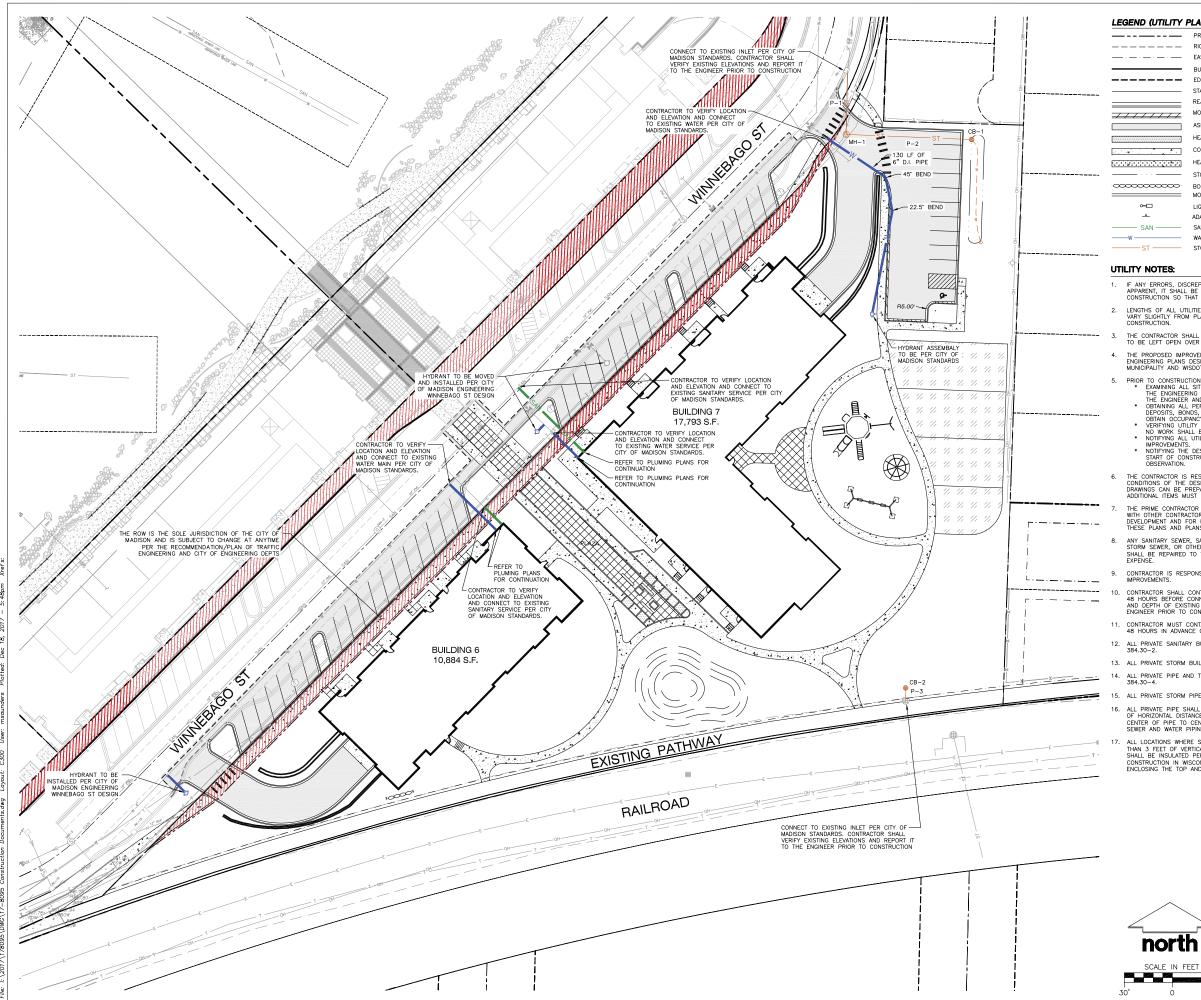
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te Issue Descriptio

Sheet Title EXTERIOR BUILDING

A201

ELEVATIONS



LEGEND (UTILITY PLAN)

	PROPERTY LINE
	RIGHT-OF-WAY
_ · _ ·	EASEMENT LINE
<u> </u>	BUILDING OUTLINE
	EDGE OF PAVEMENT
	STANDARD CURB AND GUTTER
	REJECT CURB AND GUTTER
/////	MOUNTABLE CURB
	ASPHALT PAVEMENT
	HEAVY DUTY ASPHALT PAVEMENT
	CONCRETE PAVEMENT
••••••••••••	HEAVY DUTY CONCRETE PAVEMENT
· · · - <u></u>	STORMWATER MANAGEMENT AREA
	BOULDER RETAINING WALL MODULAR BLOCK RETAINING WALL
	LIGHT POLE (REFER TO PHOTOMETRIC PLAN)
_ _	ADA PARKING BOLLARDS/SIGNS
SAN	SANITARY SEWER
	WATERMAIN
st ———	STORM SEWER

IF ANY ERRORS, DISCREPANCIES, OR OMISSIONS WITHIN THE PLAN BECOME APPARENT, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION SO THAT CLARFICATION OR REDESION MAY OCCUR.

LENGTHS OF ALL UTILITIES ARE TO CENTER OF STRUCTURES OR FITTINGS AND MAY VARY SLIGHTLY FROM PLAN. LENGTHS SHALL BE VERIFIED IN THE FIELD DURING CONSTRUCTION.

THE CONTRACTOR SHALL INSTALL A PEDESTRIAN FENCE AROUND ALL EXCAVATIONS TO BE LEFT OPEN OVER NIGHT AS REQUIRED.

THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH ENGINEERING PLANS DESIGNED TO MEET ORDINANCES AND REQUIREMENTS OF THE MUNICIPALITY AND WISDR, WOSPS, AND WONR.

THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE ENGINEER WITH AS-BUILT CONDITIONS OF THE DESIGNATED IMPROVEMENTS IN ORDER THAT THE APPROPRIATE DRAWINGS CAN BE PREPARED, IF REQUIRED, ANY CHANGES TO THE DRAWINGS OR ADDITIONAL ITEMS MUST BE REPORTED TO THE ENGINEER AS WORK PROGRESSES.

THE PRIME CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CONSTRUCTION WITH OTHER CONTRACTORS INVOLVED WITH CONSTRUCTION OF THE PROPOSED DEVELOPMENT AND FOR REPORTING ANY ERRORS OR DISCREPANCIES BETWEEN THESE PLANS AND PLANS PREPARED BY OTHERS.

ANY SANITARY SEWER, SANITARY SEWER SERVICES, WATER MAIN, WATER SERVICES, STORM SEWER, OR OTHER UTILITIES, WHICH ARE DAMAGED BY THE CONTRACTORS, SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE.

CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY DURING THE CONSTRUCTION OF IMPROVEMENTS.

CONTRACTOR SHALL CONTACT THE CITIES PUBLIC WORKS DEPARTMENT A MINIMUM OF 48 HOURS BEFORE CONNECTING TO PUBLIC UTILITIES. CONTRACTOR TO VERIFY SIZE AND DEPTH OF EXISTING UTILITY SERVICES AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONNECTING.

CONTRACTOR MUST CONTACT AND IS REQUIRED TO NOTIFY THE CITIES WATER UTILITY 48 HOURS IN ADVANCE OF CONNECTING TO THE PUBLIC UTILITY.

12. ALL PRIVATE SANITARY BUILDING PIPE AND TUBING SHALL CONFORM TO SPS $384.30{-}2.$

13. ALL PRIVATE STORM BUILDING PIPE AND TUBING SHALL CONFORM TO SPS 384.30-3 ALL PRIVATE PIPE AND TUBING FOR WATER SERVICE SHALL CONFORM TO SPS 384.30-4.

ALL PRIVATE STORM PIPE SHALL CONFORM TO SPS 382.40(8)(B)4.A.

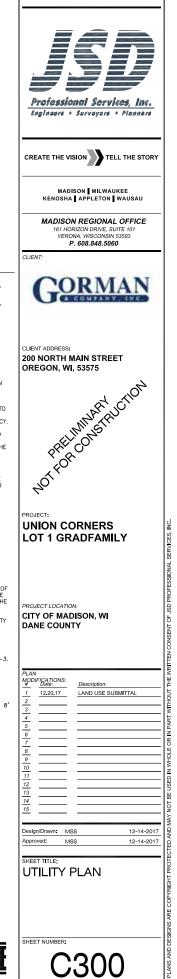
ALL PRIVATE PIPE SHALL BE INSTALLED PER SPS 382.40-8 INCLUDING AT LEAST 8' OF HORIZONTAL DISTANCE BETWEEN WATER PIPING AND SANITARY SEWER FROM CENTER OF PIPE TO CENTER OF PIPE AND 6' OF SEPARATION BETWEEN STORM SEWER AND WATER PIPING.

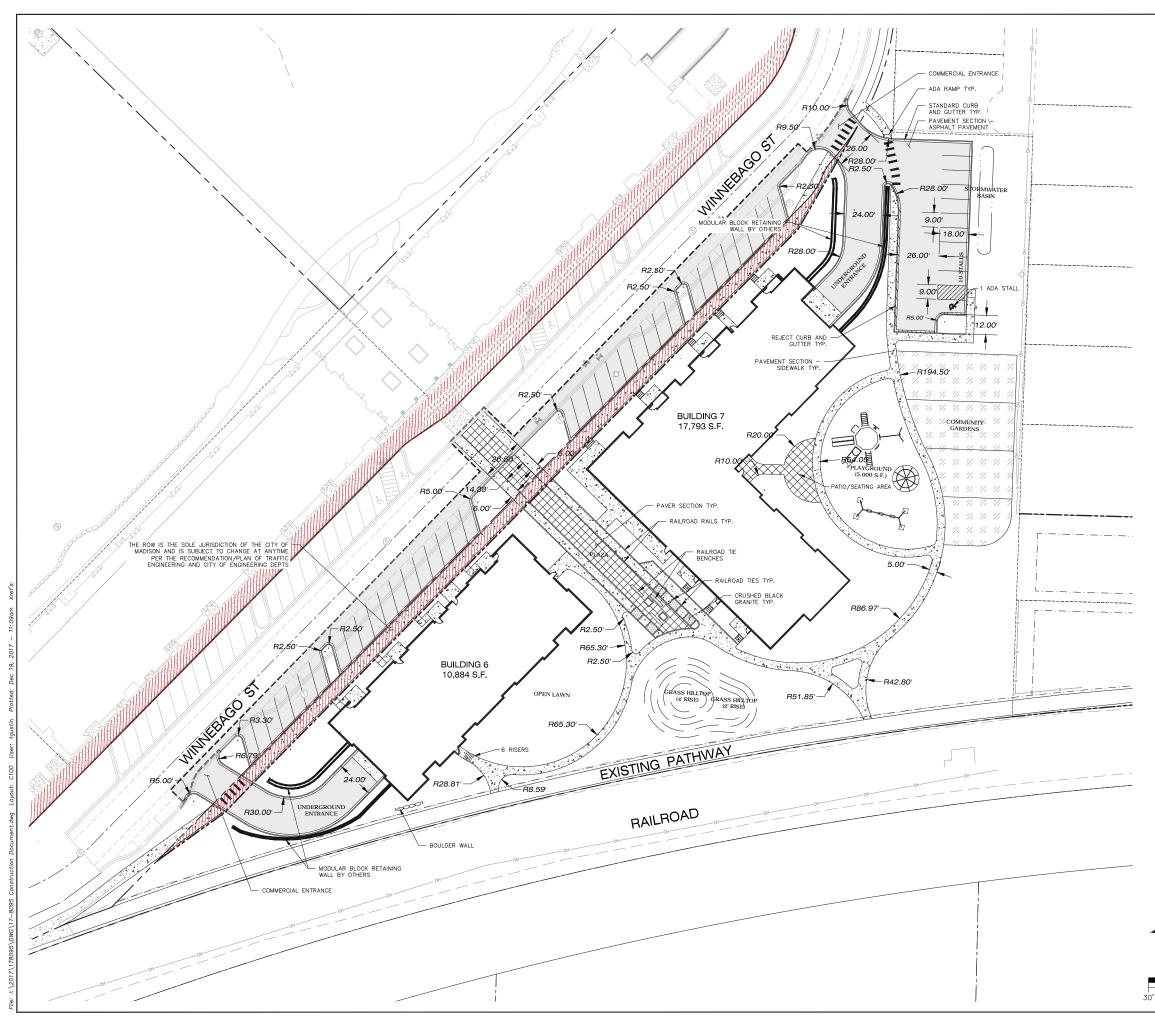
ALL LOCATIONS WHERE STORM SEWER AND WATER MAIN ARE CROSSING AND LESS THAN 3 FEET OF VERTICAL/HORIZONTAL SEPERATION IS PROVIDED, WATER MAIN SHALL BE INSULATED PER STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN LATEST EDITION. INSULATION SHALL CREATE A "BOX" ENCLOSING THE TOP AND SIDES OF WATER MAIN.

DIGGERS 🕹 HOTLINI

Toll Free (800) 242-8511

SD PROJECT NO:





LEGEND (SITE PLAN)

	PROPERTY LINE
	RIGHT-OF-WAY
· · · ·	EASEMENT LINE
	BUILDING SETBACK LINE
	PAVEMENT SETBACK LINE
	BUILDING OUTLINE
	EDGE OF PAVEMENT
	STANDARD CURB AND GUTTER
	REJECT CURB AND GUTTER
	MOUNTABLE CURB
	ASPHALT PAVEMENT
	HEAVY DUTY ASPHALT PAVEMENT
	CONCRETE PAVEMENT
	HEAVY DUTY CONCRETE PAVEMENT
	SAWCUT EXISTING PAVEMENT
· · · ·	STORMWATER MANAGEMENT AREA
-00000000000-	BOULDER RETAINING WALL
	MODULAR BLOCK RETAINING WALL
0−□	LIGHT POLE (REFER TO PHOTOMETRIC PLAN)
	ADA PARKING BOLLARDS/SIGNS

GENERAL NOTES:

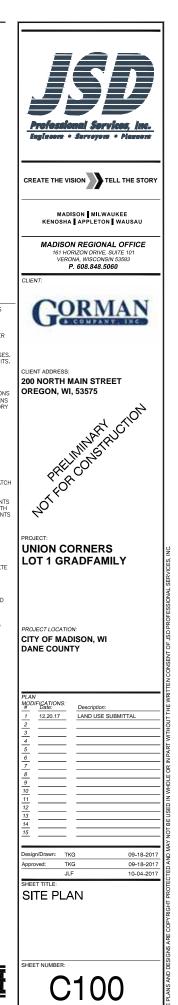
- . REFER TO THE EXISTING CONDITIONS SURVEY FOR EXISTING CONDITIONS NOTES AND LEGENDS.
- ALL WORK IN THE ROW AND/OR PUBLIC EASEMENTS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR SEWER & WATER CONSTRUCTION IN WISCONSIN AND THE MUNICIPAL REQUIREMENTS.
- EXISTING GRADE SPOT ELEVATIONS SHOWN FOR INFORMATIONAL PURPOSES DURING CONSTRUCTION MATCH EXISTING GRADES AT CONSTRUCTION LIMITS
- 4. NO SITE GRADING OUTSIDE OR DOWNSLOPE OF PROPOSED SILT FENCE LOCATION. NO LAND DISTURBANCE BEYOND PROPERTY LINES.
- JSD SHALL BE HELD HARMLESS AND DOES NOT WARRANT ANY DEVATIONS BY THE OWNER/CONTRACTOR FROM THE APPROVED CONSTRUCTION PLANS THAT MAY RESULT IN DISCIPLINARY ACTIONS BY ANY OR ALL REGULATORY AGENCIES.

SITE PLAN NOTES

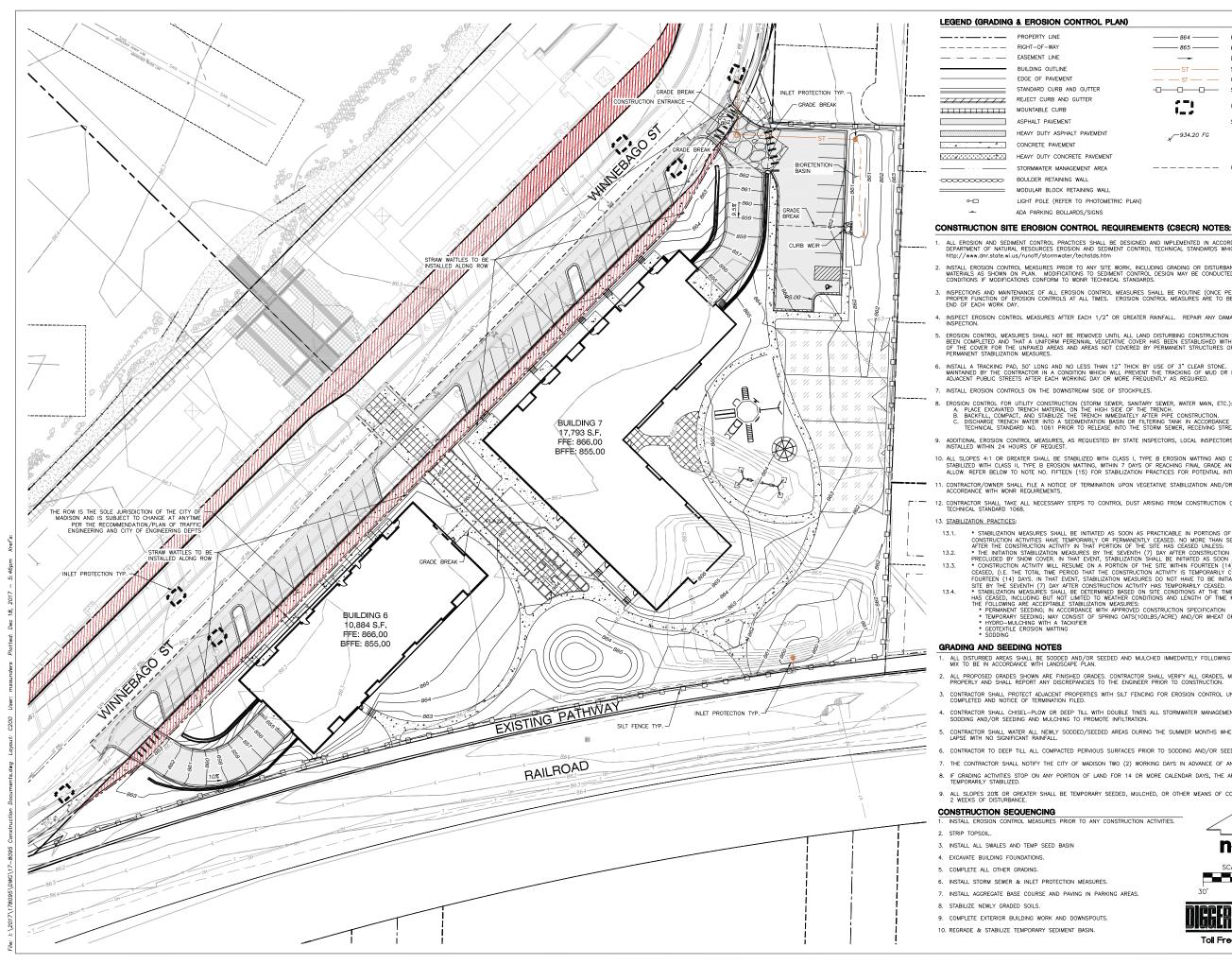
- 1. ALL DIMENSIONS TO FACE OF CURB AND/OR EDGING OF CONCRETE UNLESS OTHERWISE NOTED.
- 2. ALL RADII TO FACE OF CURB AND/OR EDGING OF CONCRETE UNLESS OTHERWISE NOTED.
- ANY REQUIRED REPLACEMENT OF PUBLIC CURB AND GUTTER SHALL MATC EXISTING AND MEET THE REQUIREMENTS OF THE CITY OF MADISON.
- 4. CONTRACTOR SHALL PROVIDE CONTROL JOINTS AND CONSTRUCTION JOINTS OF ONE-QUARTER CONCRETE THICKNESS AT AN EQUAL RATIO OF LENGTH TO WIDTH WHEREVER POSSIBLE WITH A MAXIMUM LENGTH BETWEEN JOINTS OF 8' ON CENTER
- CONTRACTOR SHALL PROVIDE EXPANSION JOINTS IN SIDEWALKS AT A MAXIMUM 24' ON CENTER
- 6. EXTERIOR CONCRETE SURFACES SHALL BE BROOM FINISHED.
- ALL CONCRETE SURFACES TO BE SEALED WITH TYPE TK-26UV CONCRETE SEALANT.
- 8. MARK AND STRIPE ADA PARKING SPACES APPROPRIATELY.
- 9. 2' \times 4' TRUNCATED DOME WARNING DETECTION FIELD SHALL BE PLACED AT ALL ADA RAMPS.
- 10. ALL PAVEMENT MARKINGS INCLUDING: STOP BARS, CROSSWALKS, DIRECTIONAL ARROWS, PARKING STALL LINES, ADA STALL MARKINGS, NO PARKING ZONES, DROP-OFF/PICK-UP ZONES SHALL BE PAINTED WITH HIGH VISIBILITY YELLOW LATEX PAINT PER SPECIFICATIONS.

SITE INFORMATION BLOCK	
Site Address	WINNEBAGO ST
Existing Site Acreage (total)	3.17
Proposed Site Acreage (total)	3.05
Number of Building Stories	4
(above grade)	
Total Building Square Footage	28,676 SF
Use of property	MULTI-FAMILY
Number of parking stalls:	
Surface	
Large Stall	9
Accessible	1
Total Surface	10
Existing vs. Proposed Site Coverage:	
Existing Impervious Surface Area	5,428 S.F.
Existing Pervious Surface Area	132,657 S.F.
Proposed Impervious Surface Area	57,964 S.F.
Proposed Pervious Surface Area	74,894 S.F.
Proposed Impervious Surface Area Ratio *calculated with proposed site acreage 3.05	.44





ISD PROJECT NO:



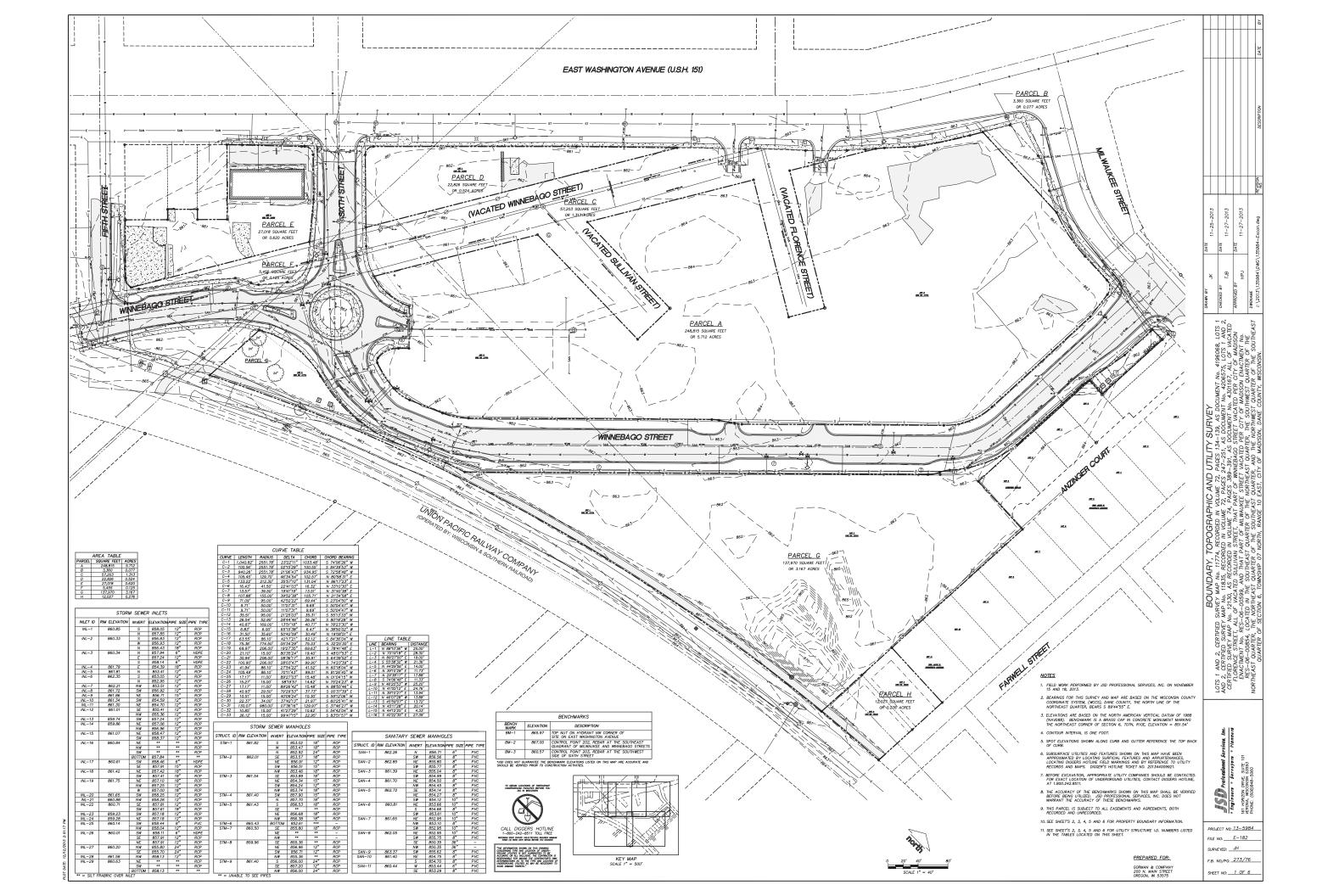
PROPOSED 1 FOOT CONTOUR SD — 865 — PROPOSED 1 FOOT CONTOUR ----DRAINAGE DIRECTION STORM SEWER — ST -UNDERDRAIN -0--0--SILT FENCE INLET PROTECTION, TYPE D Professional Services, Inc. Engineers • Surveyors • Planners SPOT ELEVATION SPOT ELEVATION EP – EDGE OF PAVEMENT FG – FINISH GRADE EC – EDGE OF CONCRETE TS – DOP OF STEP RIM – RIM ELEVATION _____934.20 FG CREATE THE VISION TELL THE STORY — — — — — — — — GRADE BREAK MADISON MILWAUKEE KENOSHA APPLETON WAUSAU MADISON REGIONAL OFFICE 61 HORIZON DRIVE. SUIT VERONA, WISCONSIN 5 ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE DESIGNED AND IMPLEMENTED IN ACCORDANCE WITH THE CURRENT DEPARTMENT OF NATURAL RESOURCES EROSION AND SEDIMENT CONTROL TECHNICAL STANDARDS WHICH ARE AVAILABLE AT: http://www.dnr.state.wi.us/runoff/stormwater/techstds.htm P. 608.848.5060 2. INSTALL EROSION CONTROL MEASURES PRIOR TO ANY SITE WORK, INCLUDING GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIALS AS SHOWN ON PLAN. MODIFICATIONS TO SEDIMENT CONTROL DESIGN MAY BE CONDUCTED TO MEET UNFORESEEN FIELD CONDITIONS IF MODIFICATIONS CONFORM TO WORK TECHNICAL STANDARDS. ORMAN INSPECTIONS AND MAINTENANCE OF ALL EROSION CONTROL MEASURES SHALL BE ROUTINE (ONCE PER WEEK MINIMUM) TO ENSURE PROPER FUNCTION OF EROSION CONTROLS AT ALL TIMES. EROSION CONTROL MEASURES ARE TO BE IN WORKING ORDER AT THE END OF EACH WORK DAY. INSPECT EROSION CONTROL MEASURES AFTER EACH 1/2" OR GREATER RAINFALL. REPAIR ANY DAMAGE OBSERVED DURING THE INSPECTION. . EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL ALL LAND DISTURBING CONSTRUCTION ACTIVITY AT THE SITE HAS BEEN COMPLETED AND THAT A UNIFORM PERENNAL VEGETATIVE COVER HAS BEEN ESTABLISHED WITH A DENSITY OF AT LEAST 70% OF THE COVER FOR THE UNPACED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES OR THAT EMPLOY EQUIVALENT LIENT ADDRESS: 200 NORTH MAIN STREET NOTFOR ONE THUCHON OREGON, WI, 53575 6. INSTALL A TRACKING PAD, 50' LONG AND NO LESS THAN 12" THICK BY USE OF 3" CLEAR STONE. TRACKING PADS ARE TO BE MAINTAINED BY THE CONTRACTOR IN A CONDITION WHICH WILL PREVENT THE TRACKING OF MUD OR DRY SEDIMENT ONTO THE ADJACENT PUBLIC STREETS AFTER EACH WORKING DAY OR MORE FREQUENTLY AS REQUIRED. EROSION CONTROL FOR UTILITY CONSTRUCTION (STORM SEWER, SANITARY SEWER, WATER MAIN, ETC.):

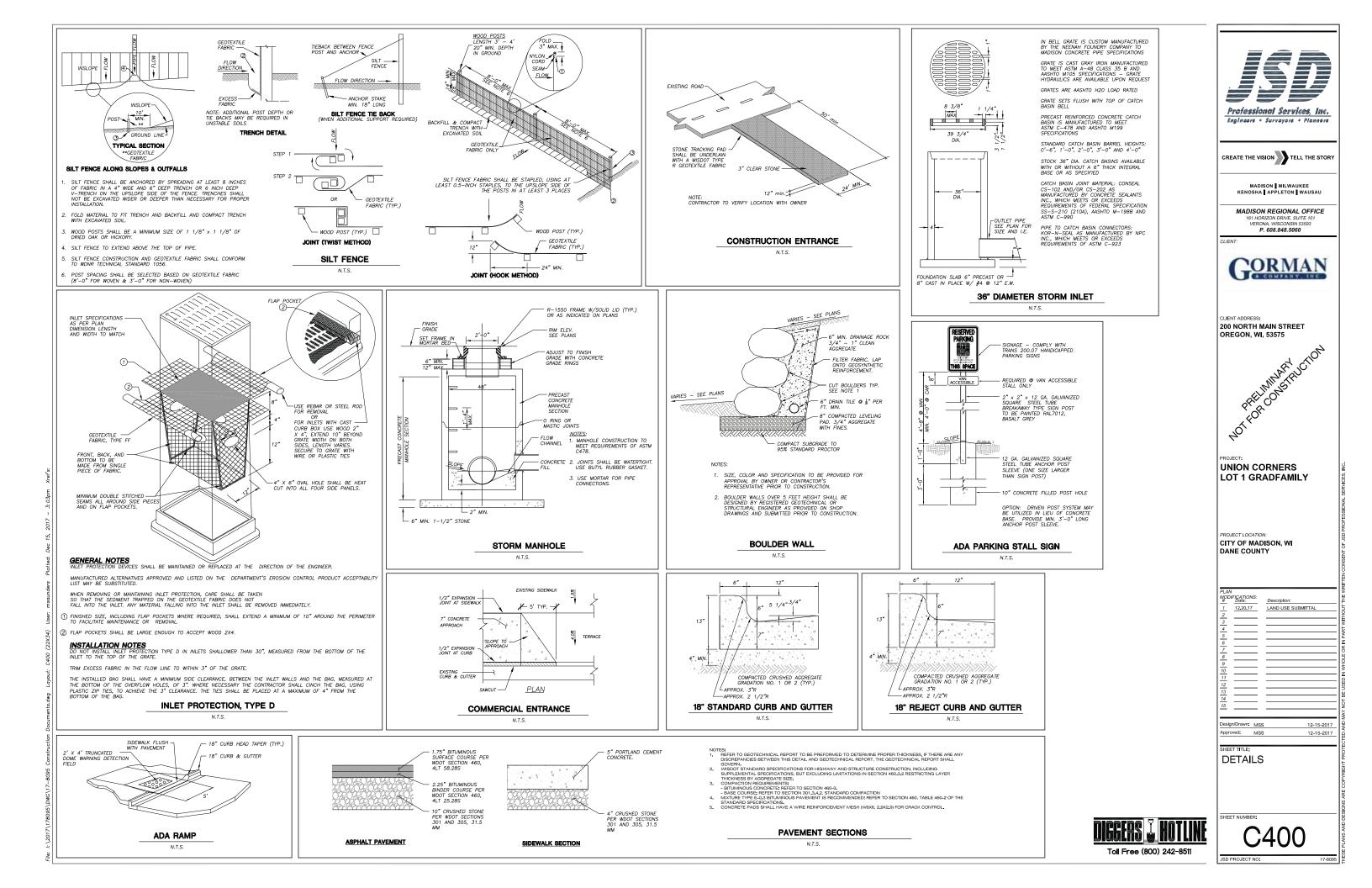
 A. PLACE EXCANATED TRENCH MATERIAL ON THE HIGH SIDE OF THE TRENCH.
 B. BACKFILL, COMPACT, AND STABILIZE THE TRENCH IMMEDIATELY AFTER PIPE CONSTRUCTION.
 C. DISCHARGE TRENCH WATER INTO A SEDIMENTATION BASIN OR FILTERING TANK IN ACCORDANCE WITH THE DEWATERING TECHNICAL STRANDARD NO. IOGI PRIOR TO RELASE INTO THE STORM SEVER, RECEIVING STREAM, OR DRAINAGE DICH.

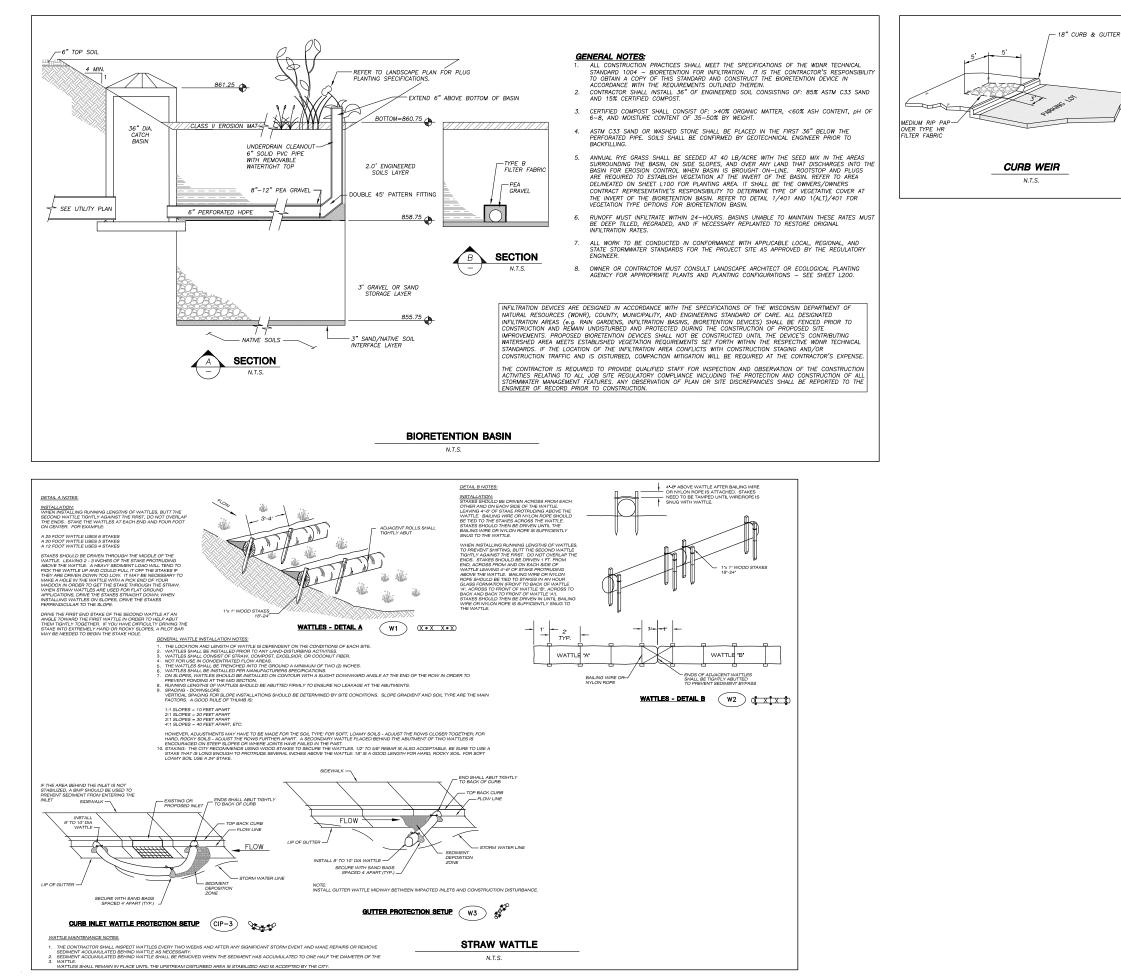
 ADDITIONAL EROSION CONTROL MEASURES, AS REQUESTED BY STATE INSPECTORS, LOCAL INSPECTORS, AND/OR ENGINEER SHALL BE INSTALLED WITHIN 24 HOURS OF REQUEST. 10. ALL SLOPES 4:1 OR GREATER SHALL BE STABILIZED WITH CLASS I, TYPE B EROSION MATTING AND DRAINAGE SWALES SHALL BE STABILIZED WITH CLASS II, TYPE B EROSION MATTING, WITHIN 7 DAYS OF REACHING FINAL GRADE AND/OR AS SOON AS CONDITIONS ALLOW. REFER BELOW TO NOTE NO. FIFTEEN (15) FOR STABILIZATION PRACTICES FOR POTENTIAL INTERIM STABILIZATION. CONTRACTOR/OWNER SHALL FILE A NOTICE OF TERMINATION UPON VEGETATIVE STABILIZATION AND/OR PROPERTY SALE IN ACCORDANCE WITH WDNR REQUIREMENTS. 12. CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO CONTROL DUST ARISING FROM CONSTRUCTION OPERATIONS. REFER TO WDNR TECHNICAL STANDARD 1068. UNION CORNERS LOT 1 GRADFAMILY STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE
 CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. NO MORE THAN SEVEN (7) DAYS SHALL PASS
 AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS CEASED UNLESS.
 THE INITIATION STABILIZATION MEASURES BY THE SEVENTH (7) DAY AFTER CONSTRUCTION ACTIVITY HAS CEASED IS
 PRECLUDED BY SNOW COVER. IN THAT EVENT, STABILIZATION SHALL BE INITIATED AS SOON AS PRACTICABLE.
 CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN FOURTEEN (14) DAYS FROM WHEN ACTIVITY
 CEASED, (I.E. THE TOTAL TIME PERIOD THAT THE CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED IS LESS THAN
 FOURTEEN (14) DAYS. IN THAT EVENT, STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE
 SITE WITHIN FOURTEEN (14) DAYS. IN THAT EVENT, STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE
 SITABILIZATION MEASURES SHALL BE DETERMINED BASED ON STAWE TO BE INITIATED OF CONSTRUCTION ACTIVITY
 ESEDITION OF THE SEVENTH (7) DAY AFTER CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED.
 SITABILIZATION MEASURES BASED ON STAWE TO BE INITIATED OF CONSTRUCTION ACTIVITY
 HAS CEASED, INCLUDING BUT NOT I MITED TO WEATHER CONDITIONS AT THE TIME OF CONSTRUCTION ACTIVITY
 HAS CEASED, INCLUDING BUT NOT IMITED TO WEATHER CONDITIONS AND LENGTH OF TIME MEASURE MUST BE EFFECTIVE.
 THE FORLOWING ARE ACCEPTABLE STABILIZATION MEASURES CONSTRUCTION SECIFICATION
 * TEMPORARY SEEDING; IN ACCORDANCE WITH APPROVED CONSTRUCTION SECIFICATION SECIFICATION
 * TEMPORARY SEEDING; MAY CONSIST OF SPRING CASIS(DAS/SACRE) AND/OR WHEAT OR CEREAL RYE (150LB/ACRE)
 * DERMANENT SEEDING; IMAY CONSIST OF SPRING CASIS(SACRE) AND/OR WHEAT OR CEREAL RYE (150LB/ACRE)
 * TEMPORARY SEDIDING; MAY CONSIST OF SPRING CASIS(SACRE) AND/OR WHEAT OR CEREAL RYE (150LB/ACRE)
 * TEMPORARY SEDIDING; MAY CONSIST OF SPRING CASIS(SACRE) AND/OR WHEAT OR CEREAL RYE (150LB/ACRE)
 * DEPRORARY SEDIDIN ROJECT LOCATION CITY OF MADISON, WI DANE COUNTY TEMPORARY SEEDING, IN ACCONSIST OF SPRING CATS(100LBS/ACRE) AND/OR WHEAT OR CEREAL RYE (150LB/ACRE)
 HYDRO-MULCHING WITH A TACKIFIER
 GEOTEXTILE EROSION MATTING
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Toll Free (800) 242-8511

SD PROJECT NO

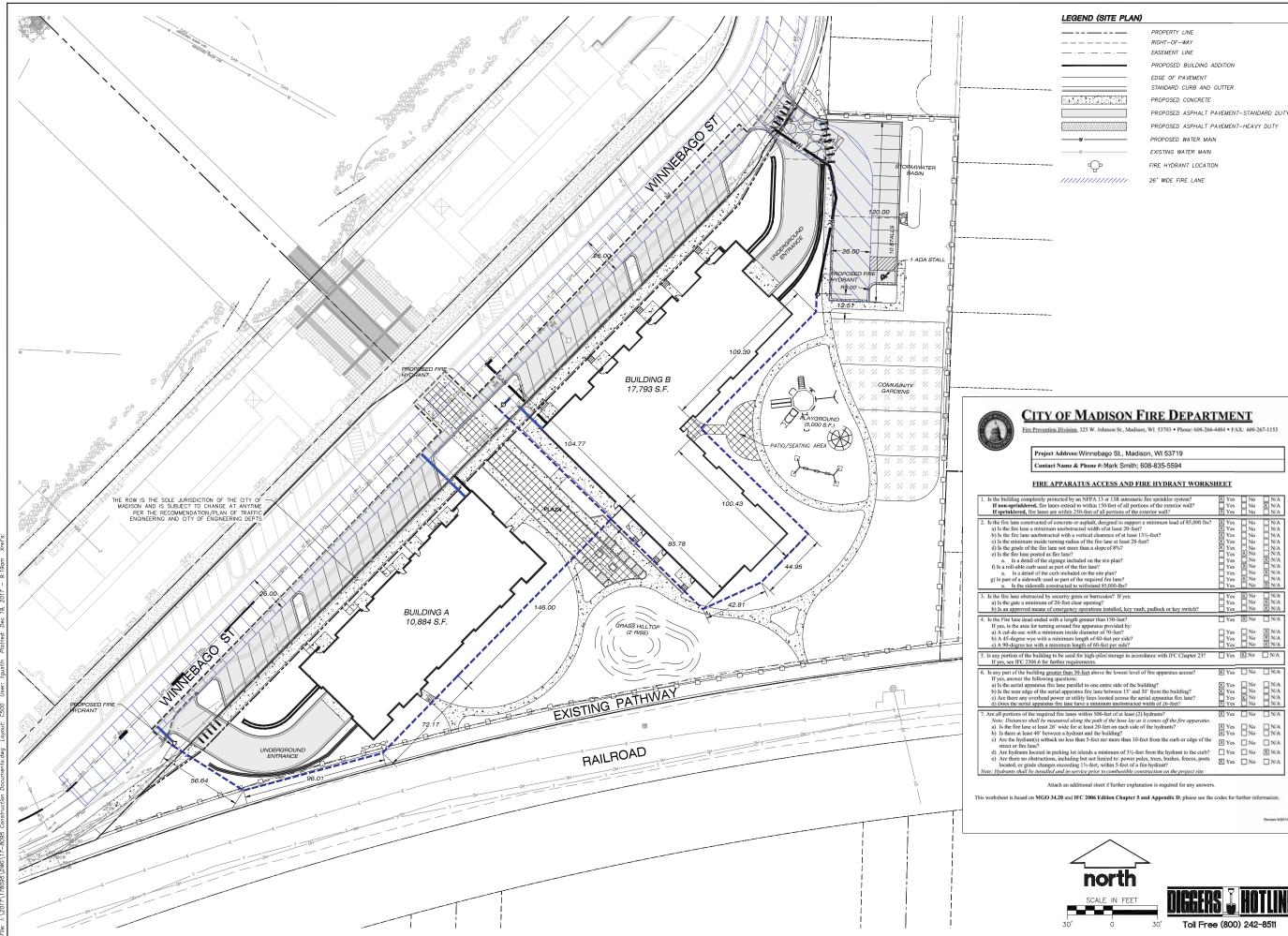






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	STANDARD CURB AND GUTTER
	PROPOSED CONCRETE
	PROPOSED ASPHALT PAVEMENT-STANDARD DUTY
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Ŷ	FIRE HYDRANT LOCATION
///////////////////////////////////////	26' WIDE FIRE LANE

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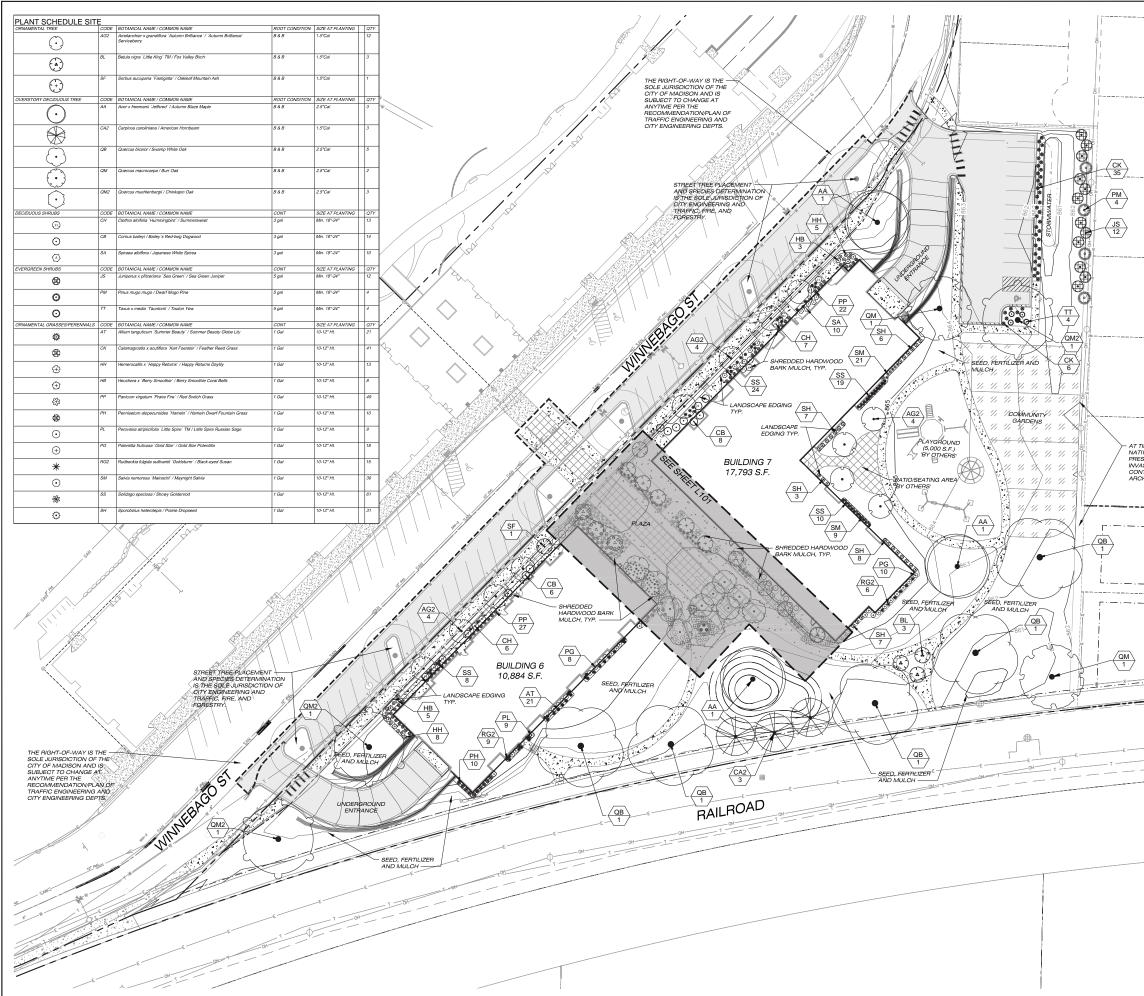
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FIRE ACCESS EXHIBIT

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LEGEND	(SITE	PLAN)

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GENERAL NOTES:

- 1. REFER TO THE EXISTING CONDITIONS SURVEY FOR EXISTING CONDITIONS NOTES AND LEGEND.
- ALL WORK IN THE ROW SHALL BE IN ACCORDANCE WITH THE MUNICIPAL STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- JSD SHALL BE HELD HARMLESS AND DOES NOT WARRANT ANY DEVIATIONS BY THE OWNER/CONTRACTOR FROM THE APPROVED CONSTRUCTION PLANS THAT MAY RESULT IN DISCIPLINARY ACTIONS BY ANY OR ALL REGULATORY AGENCIES.
- 4. DRAWING FOR REVIEW NOT FOR CONSTRUCTION UNLESS OTHERWISE NOTED IN THE TITLE BLOCK.
- . THE LANDSCAPE CONTRACTOR SHALL COORDINATE ALL FINE GRADING AND TOPSOILING WITH GENERAL CONTRACTOR 5.
- REFER TO SHEET L200 FOR ADDITIONAL DETAILS, NOTES AND SPECIFICATION INFORMATION INCLUDING MATERIALS, GUARANTEE AND EXECUTION RELATED TO LANDSCAPE PLAN

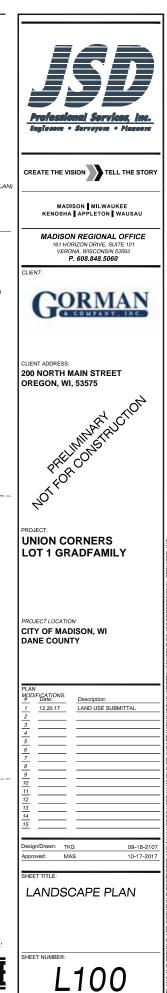
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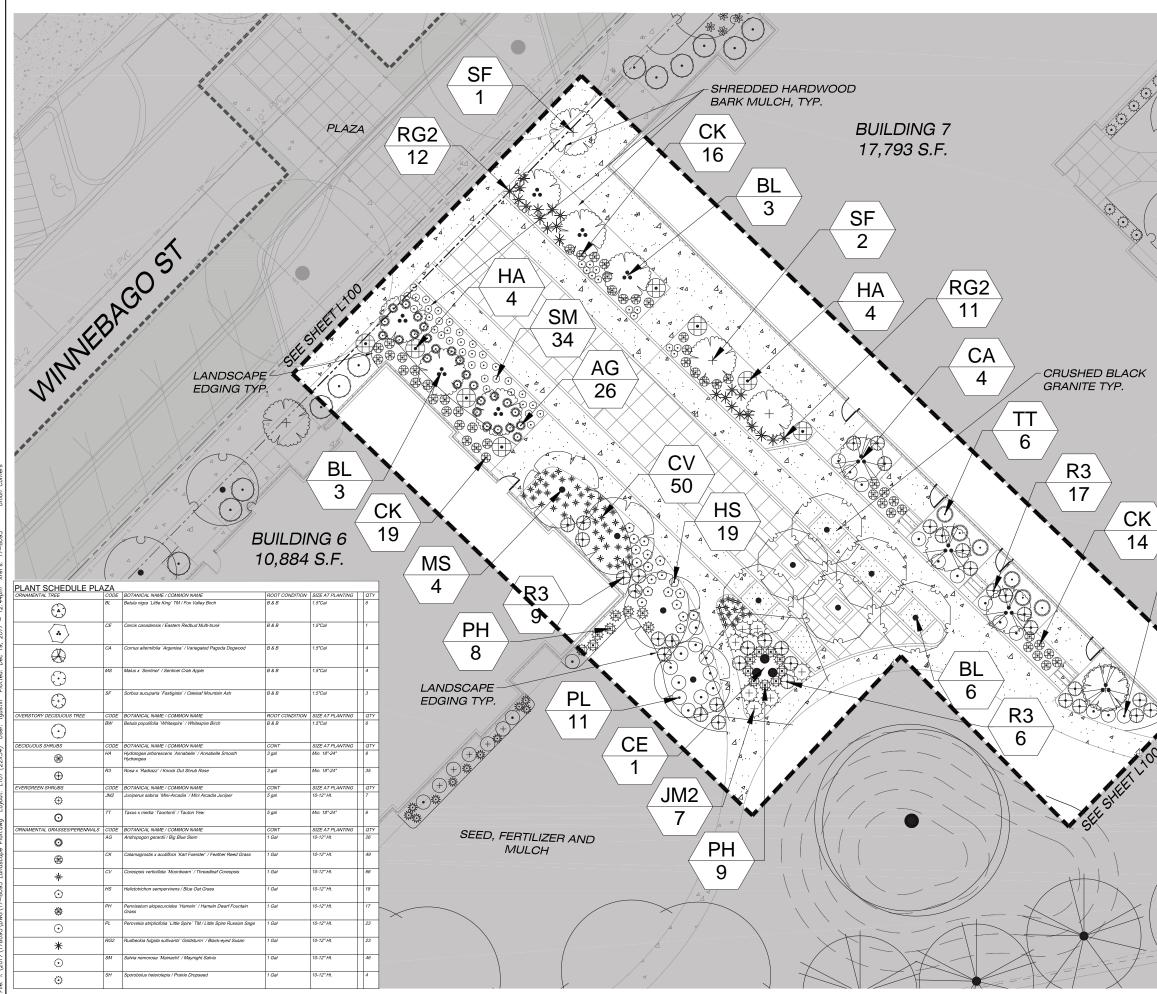
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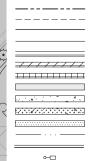
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LEGEND (SITE PLAN)



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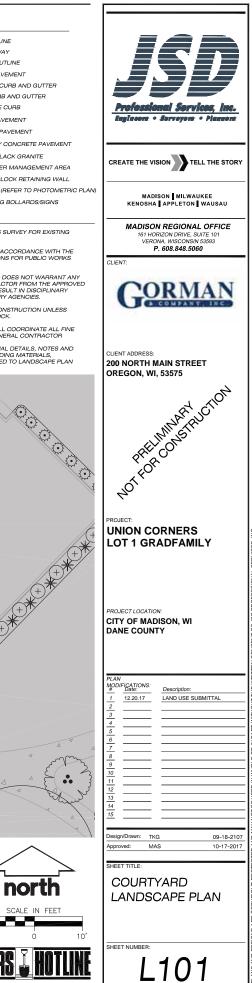
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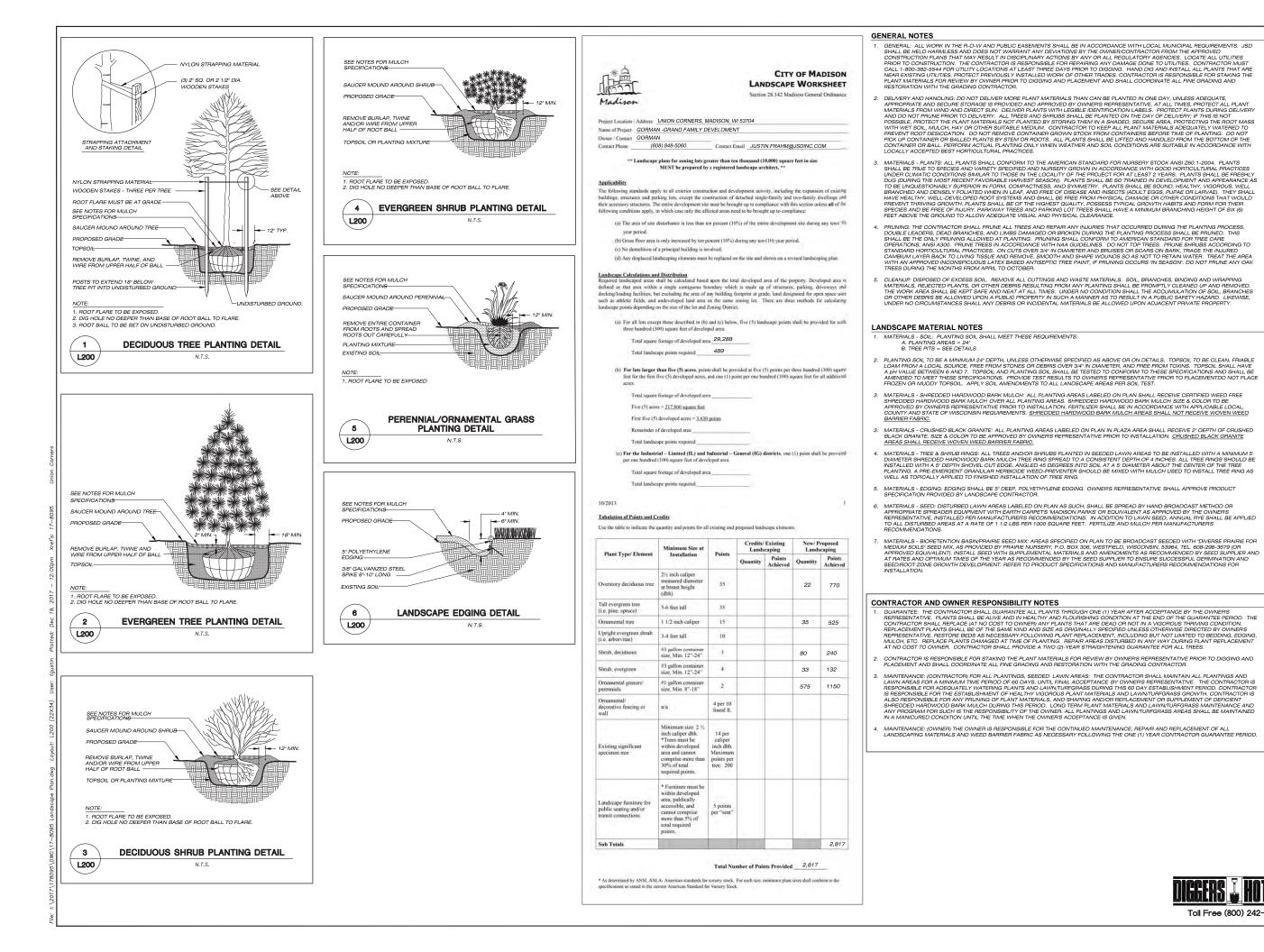
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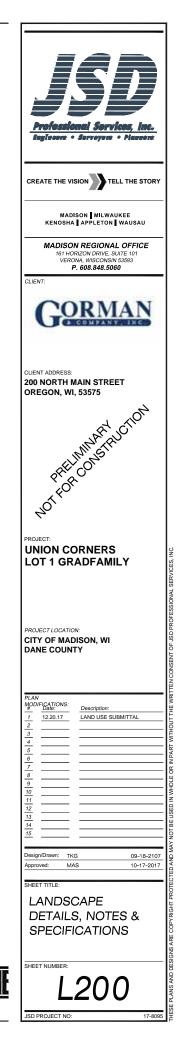
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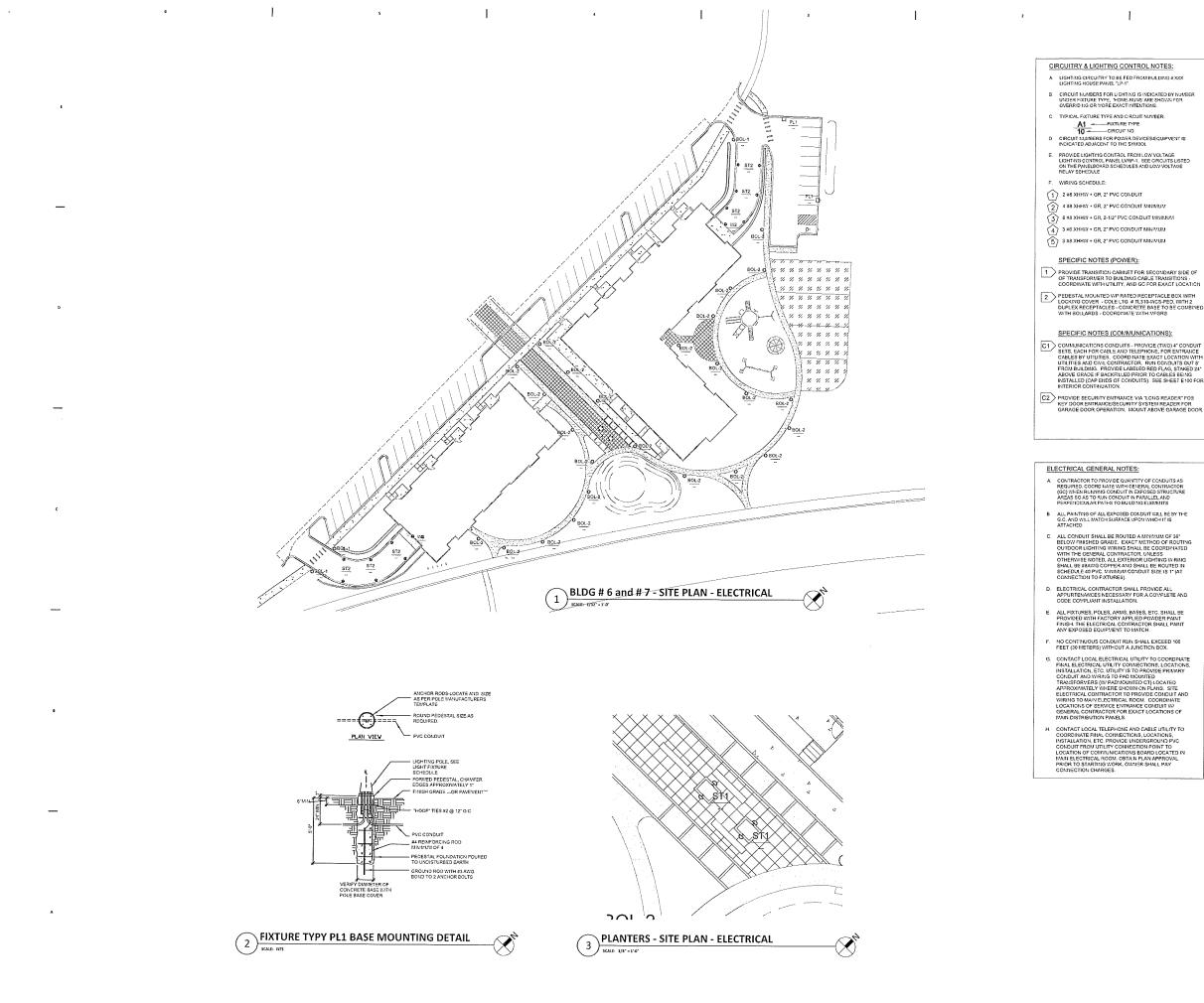
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REAL ESTATE DEVELOPMENT & MANAGEMENT 200 N. MAIN STREET OREGON, WI 53575

Seal

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1250 FEMRITE DRIVE, SUITE 200 MADISON, WI 53716

GRAND FAMILY HOUSING UNION CORNERS 2507 WINNEBAGO STREET MADISON, WISCONSIN 53704

CONSTRUCTION DOCUMENTS

Project No. Plot Date:	December 27, 2017
Drawn by:	BVE
· · · · ·	USER

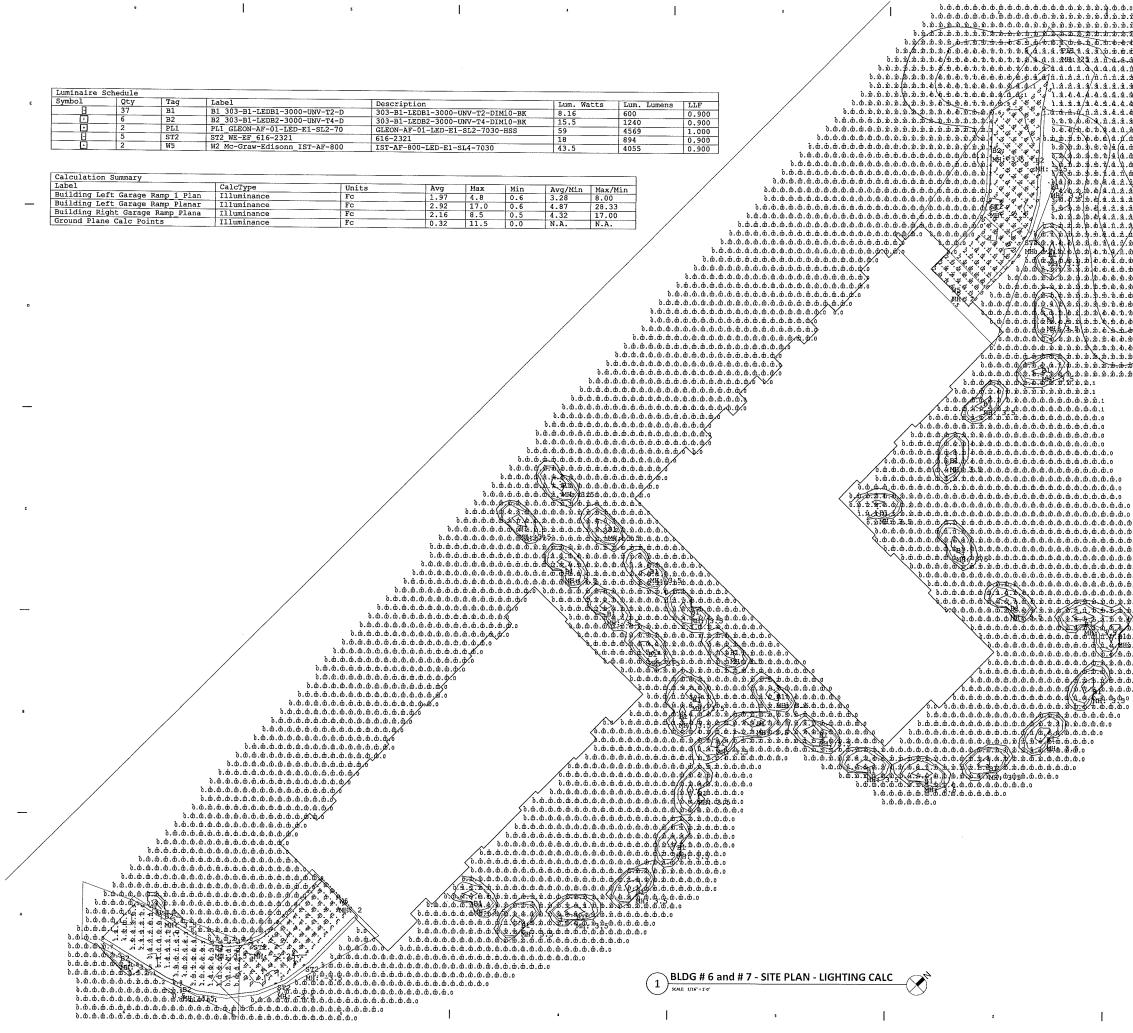
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SITE PLAN - ELECTRICAL





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REAL ESTATE DEVELOPMENT & MANAGEMENT 200 N. MAIN STREET OREGON, WI 53575

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GRAND FAMILY HOUSING UNION CORNERS 2507 WINNEBAGO STREET MADISON, WISCONSIN 53704

CONSTRUCTION	DOCUMENTS

Project No.	
Plot Date:	December 27, 2017
Drawn by:	BVE
	USER
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	Date	Issue Description	
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Sheet Title

SITE PLAN - LIGHTING CALCULATIONS

Sheet No ES01-CALC



Engineers
 Surveyors
 Planners

VERONA | WAUKESHA | KENOSHA | APPLETON | WESTON

Memorandum

www.jsdinc.com

То:	Jeff Benedict – City of Madison
From:	Matt Saunders E.I.T.
Re:	Union Corners Lot 1 Grandfamily Stormwater Management Plan
JSD Project #:	17-8095
Date:	December 15, 2017
CC:	Mike Grzesiak, P.E. (JSD), Justin Frahm (JSD)

This memorandum shall serve as the stormwater management plan for the proposed Union Corners Lot 1 Grandfamily project detailing compliance with City of Madison and Wisconsin Department of Natural Resources Chapters NR151 & NR216 erosion control and storm water management plan requirements.

Background:

The proposed Union Corners project is located at the physical address 2507 Winnebago Street in the City of Madison, more specifically the parcel known as Lot 1 of CSM No. 11774. The lot consists of consists of 3.17 acres of open grass areas. Existing conditions map can be found in **Attachment 1**.

Project scope includes construction of two mixed use residential and commercial buildings with underground parking. Building A has an approximate footprint of 10,884 square feet and Building B has an approximate footprint of 17,793 square feet. Additionally, proposed improvements include on-street asphalt parking, an on-site asphalt parking lot, a bioretention basin, pedestrian paths, community gardens, playground area, plaza, and landscaping features.

Stormwater runoff from the proposed parking lot will be routed to a bioretention basin and treated before being released offsite. The treatment facility will provide total suspended solids and oil and grease control as required by City of Madison Code of Ordinances and WDNR regulations. Proposed Construction Plans of the improvements can be found in **Attachment 3**.

The predominant soil type within the site is Virgil silt loam (VwA) which has a hydrologic soil group classification B/D. Soil information can be found in **Attachment 2**.

WDNR wetland mapping indicates there are no delineated wetlands within or adjacent to the proposed site. However, there are wetland indicating hydric soils located onsite. There are no waterways or bodies of water adjacent to the site.

Previously the site was fully developed as a commercial property but has since been demolished and is currently an empty lot. The site is being repurposed from the previous commercial use into a proposed mixed-use property. Discussions with city engineering have determined that the site shall be considered a redevelopment project, thus subject to redevelopment stormwater management standards.

Design:

Proposed improvements will have approximately 2.66 acres of disturbed area. The stormwater management facility has been designed to target the 60% sediment reduction on all new exposed parking areas. Stormwater directed to the bioretention basin will be treated for sediment reduction and oil and

161 Horizon Drive, Suite 101 • Verona, WI 53593 • Phone: 608.848.5060 • Fax: 608.848.2255

Page 2

grease control before discharging to a private storm sewer system. Stormwater runoff will drain to a curb weir and discharge into the bioretention basin.

WinSLAMM was used to calculate the percent of suspended solids removed through the bioretention device. The bioretention basin will reduce the suspended solids lost by approximately 88%. See **Attachment 4** for details on total suspended solids calculations. Also see **Attachment 5** for hydrologic calculations.

Erosion Control:

Erosion control measures onsite will conform to the Wisconsin Department of Natural Resources Technical Standards, Dane County Chapter 14 Erosion Control and Stormwater Management as well as City of Madison requirements. These measures include, but are not limited to; construction entrance, silt fencing, straw wattles, grading, seeding, mulching, erosion matting, and temporary sediment ponds as necessary. Construction sequencing shall be as follows:

- 1. Install silt fence in appropriate locations and stone tracking pad on all entrances to be used by construction vehicles.
- 2. Install all erosion control measures as noted on the Grading and Erosion Control Plan.
- 3. Complete mass grading.
- 4. Install all utilities.
- 5. Construct proposed buildings.
- 6. Install storm sewer system and protect all openings per the erosion control plan.
- 7. Install aggregate base course within paved areas.
- 8. Install asphaltic pavement.
- 9. Place topsoil
- 10. Seed and mulch
- 11. Remove temporary erosion control practices.

For more detailed requirements regarding erosion control and grading efforts, refer to the attached proposed construction plans in **Attachment 3**.

Conclusion:

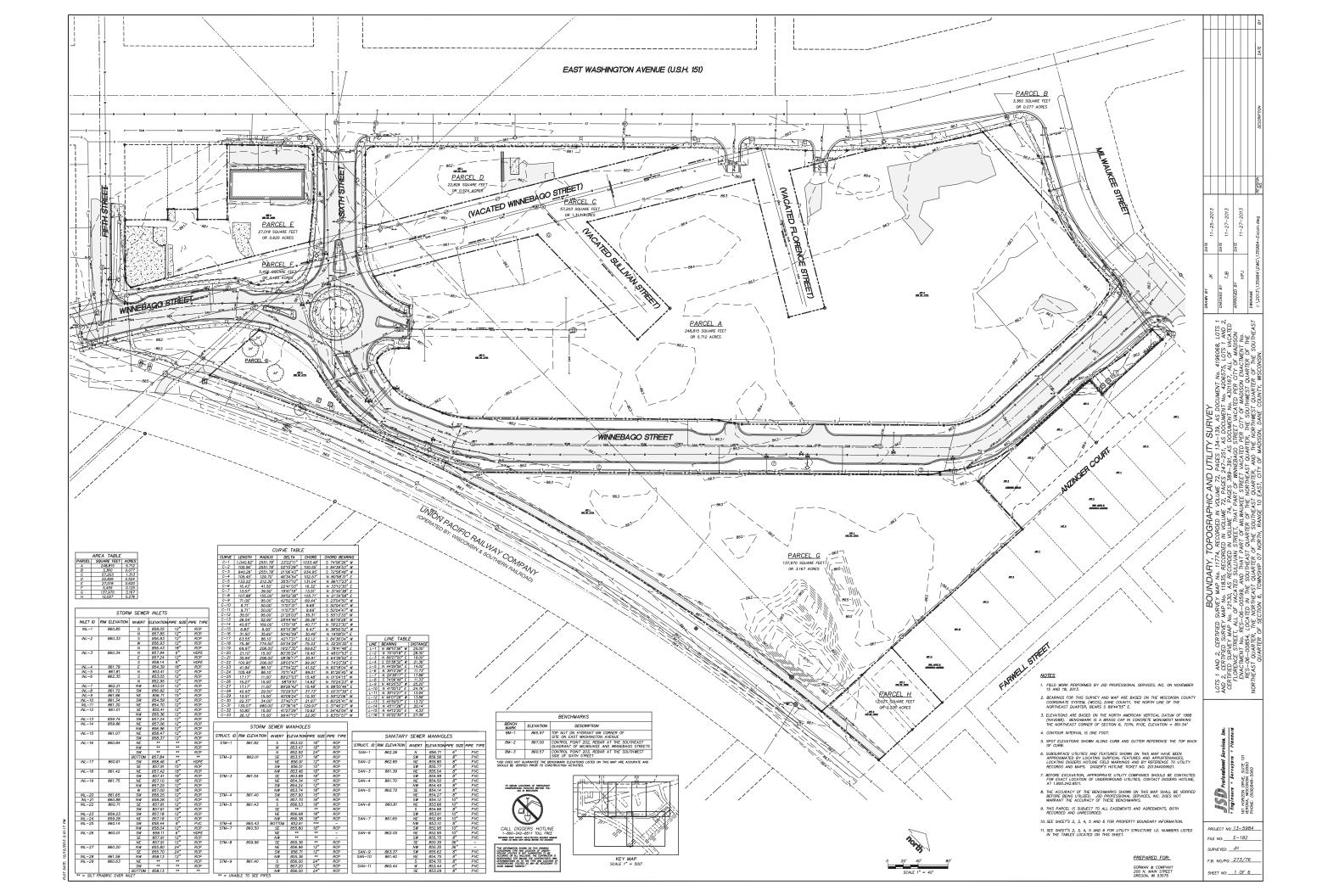
The stormwater management features for the Union Corners Lot 1 Grandfamily project have been designed in accordance with development standards within the City of Madison Code of Ordinances and WDNR standards NR151 and NR216. Improvements include the development of two mixed use commercial and residential buildings, asphalt parking areas, pedestrian paths, community gardens, playground area, plaza, landscaping features, and a bioretention basin. Stormwater runoff from the parking area will be directed to a bioretention basin for total suspended solids reduction and oil and grease control as required, and will ultimately discharge to a storm sewer system.

Attachments:

Attachment 1: Existing Conditions Map Attachment 2: Soil Information Attachment 3: Construction Plans Attachment 4: Total Suspended Calculations Attachment 5: Hydrologic Calculations

ATTACHMENT 1

EXISTING CONDITIONS SURVEY



Union Corner's Lot 1 Grandfamily

ATTACHMENT 2

SOILS INFORMATION



United States Department of Agriculture



Natural Resources Conservation Service A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for **Dane County**, **Wisconsin**



December 12, 2017

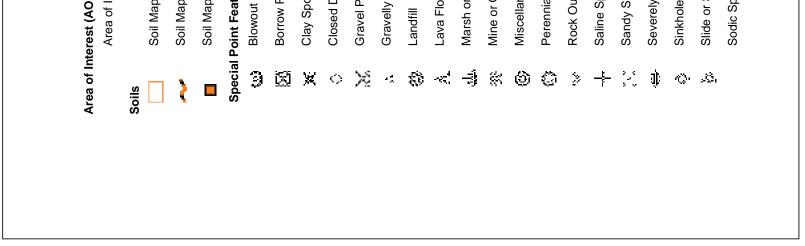
Contents

Preface	2
Soil Map	
Soil Map	
Legend	
Map Unit Legend	8
Map Unit Descriptions	8
Dane County, Wisconsin	10
BbB—Batavia silt loam, gravelly substratum, 2 to 6 percent slopes	10
VwA—Virgil silt loam, gravelly substratum, 0 to 3 percent slopes	11

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MAP LEGEND	QN		MAP INFORMATION
st (AOI) rea of Interest (AOI)	Stol Stol	Spoil Area Stony Spot	The soil surveys that comprise your AOI were mapped at 1:15,800.
oil Map Unit Polygons	Ver	Very Stony Spot Wet Spot	Warning: Soil Map may not be valid at this scale.
oil Map Unit Points		Other Special Line Eastures	Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of
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erennial Water			of the version date(s) listed below.
ock Outcrop			Soil Survey Area: Dane County, Wisconsin
aline Spot			
andy Spot			Soil map units are labeled (as space allows) for map scales
everely Eroded Spot			1:50,000 or larger.
inkhole			Date(s) aerial images were photographed: Aug 16, 2013—Aug
lide or Slip			
odic Spot			The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background
			imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.



Custom Soil Resource Report

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BbB	Batavia silt loam, gravelly substratum, 2 to 6 percent slopes	0.2	4.2%
VwA	Virgil silt loam, gravelly substratum, 0 to 3 percent slopes	4.7	95.8%
Totals for Area of Interest		4.9	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor

components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The

8

Custom Soil Resource Report

delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An association is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Dane County, Wisconsin

BbB—Batavia silt loam, gravelly substratum, 2 to 6 percent slopes

Map Unit Setting

National map unit symbol: t919 Mean annual precipitation: 28 to 33 inches Mean annual air temperature: 46 to 52 degrees F Frost-free period: 135 to 160 days Farmland classification: All areas are prime farmland

Map Unit Composition

Batavia, gravelly substratum, and similar soils: 100 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Batavia, Gravelly Substratum

Setting

Landform: Outwash plains Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Deep loess over loamy outwash

Typical profile

H1 - 0 to 10 inches: silt loam
H2 - 10 to 44 inches: silty clay loam
H3 - 44 to 50 inches: gravelly clay loam

H4 - 50 to 60 inches: gravelly coarse sand

Properties and qualities

Slope: 2 to 6 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water storage in profile: High (about 9.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 2e Hydrologic Soil Group: B Other vegetative classification: High AWC, adequately drained (G095BY008WI) Hydric soil rating: No

VwA—Virgil silt loam, gravelly substratum, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2wsqx Elevation: 750 to 1,150 feet Mean annual precipitation: 31 to 35 inches Mean annual air temperature: 45 to 48 degrees F Frost-free period: 110 to 171 days Farmland classification: All areas are prime farmland

Map Unit Composition

Virgil, gravelly substratum, and similar soils: 90 percent *Minor components:* 10 percent *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Virgil, Gravelly Substratum

Setting

Landform: Outwash plains Landform position (three-dimensional): Talf Down-slope shape: Concave Across-slope shape: Linear Parent material: Loess over calcareous, stratified sandy and gravelly outwash

Typical profile

Ap - 0 to 9 inches: silt loam E - 9 to 13 inches: silt loam Bt - 13 to 44 inches: silty clay loam 2BC - 44 to 49 inches: sandy loam 2C - 49 to 79 inches: stratified gravel to sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: About 0 to 24 inches
Frequency of flooding: None
Frequency of ponding: Occasional
Calcium carbonate, maximum in profile: 20 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Available water storage in profile: High (about 9.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 2w Hydrologic Soil Group: B/D Other vegetative classification: High AWC, high water table (G095BY007WI) Hydric soil rating: No

Custom Soil Resource Report

Minor Components

Sebewa

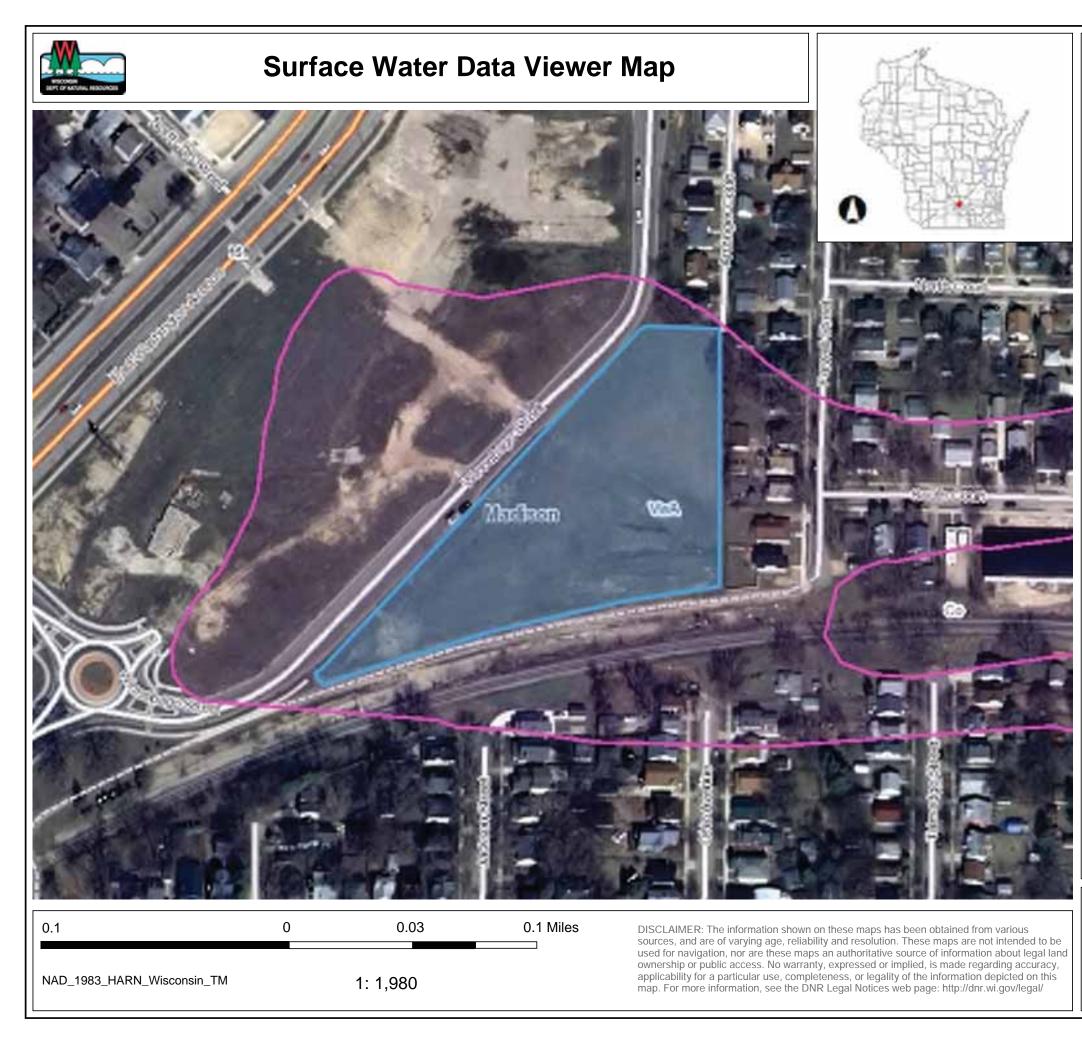
Percent of map unit: 4 percent Landform: Outwash plains Landform position (three-dimensional): Talf Down-slope shape: Concave Across-slope shape: Linear Hydric soil rating: Yes

Drummer, drained

Percent of map unit: 4 percent Landform: Outwash plains Landform position (three-dimensional): Talf Down-slope shape: Concave Across-slope shape: Linear Hydric soil rating: Yes

Sable

Percent of map unit: 2 percent Landform: Outwash plains Landform position (three-dimensional): Talf Down-slope shape: Concave Across-slope shape: Linear Hydric soil rating: Yes

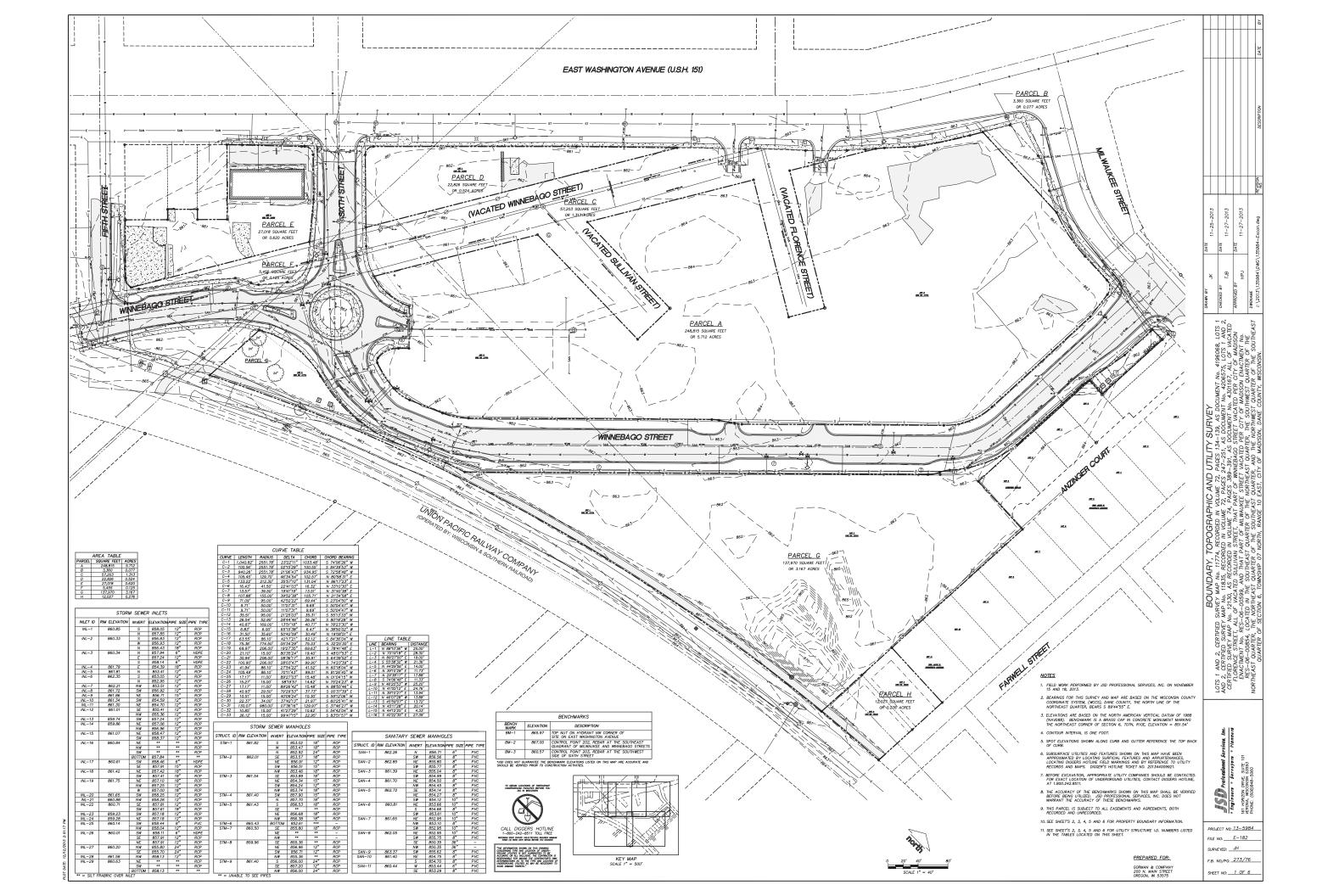


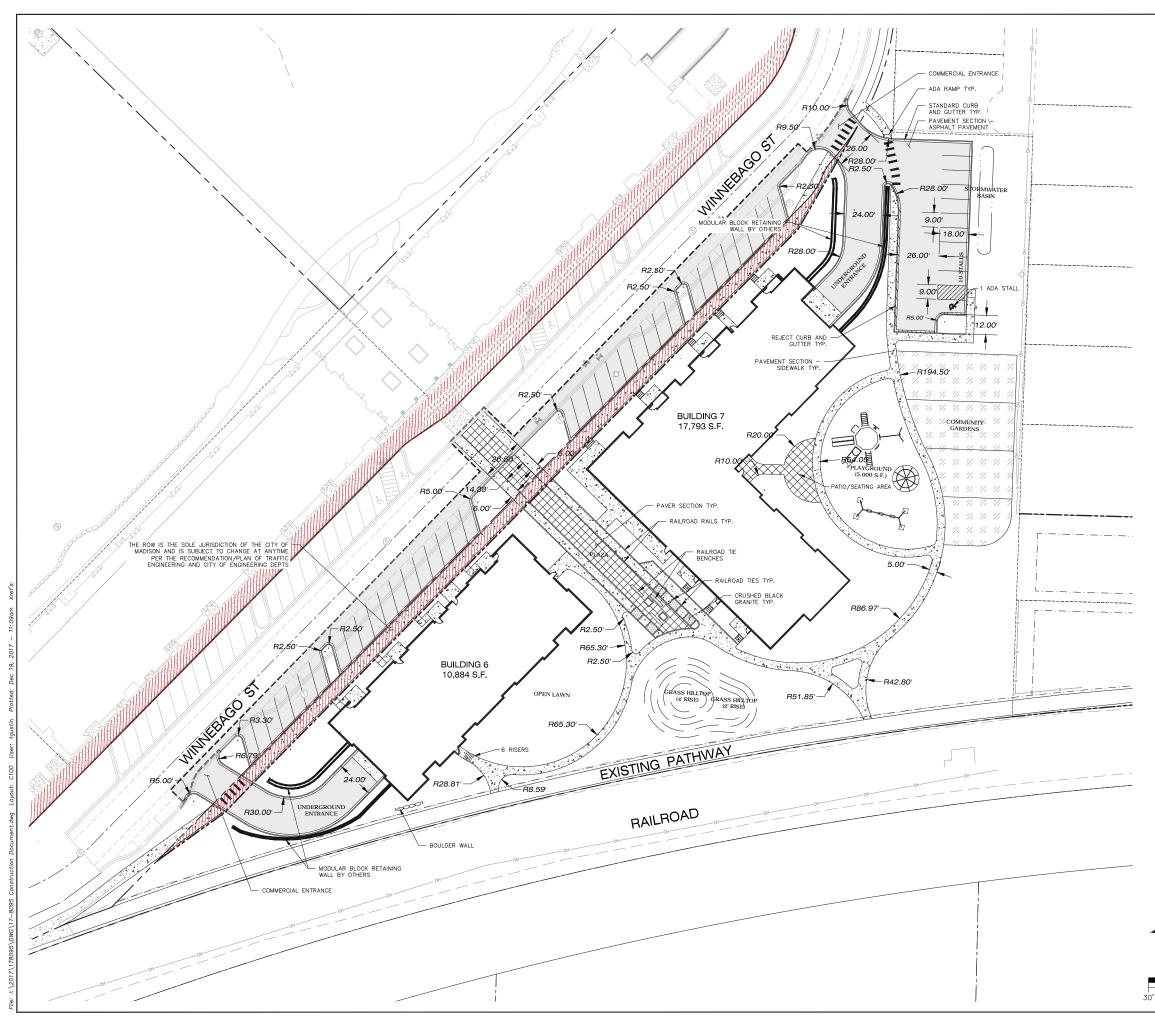
Leç	Legend						
	Wetland Class Points						
	Dammed pond						
	Excavated pond						
	Filled excavated pond						
	Eilled/drained wetland						
	Wetland too small to delineate						
11	Filled Points						
	Wetland Class Areas						
	Wetland						
	Upland						
1	Filled Areas						
٠	NRCS Wetspots						
	Wetland Indicators						
	Intermittent Streams						
	24K Hydrography Streams and Rivers						
	24K Hydrography Lakes and Open Water						
	Municipality						
:	State Boundaries						
	County Boundaries						
	Major Roads						
	Interstate Highway						
	State Highway						
	🚃 US Highway						
	County and Local Roads						
	County HWY						
	Local Road						
:	Railroads						
T	Tribal Lands						
	Rivers and Streams						
	Intermittent Streams						
	Lakes and Open water						
	Index to						
	EN_Image_Basemap_Leaf_						
No	Notes						

Union Corner's Lot 1 Grandfamily

ATTACHMENT 3

PROPOSED CONSTRUCTION PLANS





LEGEND (SITE PLAN)

	PROPERTY LINE
	RIGHT-OF-WAY
· · · ·	EASEMENT LINE
	BUILDING SETBACK LINE
	PAVEMENT SETBACK LINE
	BUILDING OUTLINE
	EDGE OF PAVEMENT
	STANDARD CURB AND GUTTER
	REJECT CURB AND GUTTER
	MOUNTABLE CURB
	ASPHALT PAVEMENT
	HEAVY DUTY ASPHALT PAVEMENT
	CONCRETE PAVEMENT
	HEAVY DUTY CONCRETE PAVEMENT
	SAWCUT EXISTING PAVEMENT
· · · ·	STORMWATER MANAGEMENT AREA
-00000000000-	BOULDER RETAINING WALL
	MODULAR BLOCK RETAINING WALL
0−□	LIGHT POLE (REFER TO PHOTOMETRIC PLAN)
	ADA PARKING BOLLARDS/SIGNS

GENERAL NOTES:

- . REFER TO THE EXISTING CONDITIONS SURVEY FOR EXISTING CONDITIONS NOTES AND LEGENDS.
- ALL WORK IN THE ROW AND/OR PUBLIC EASEMENTS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR SEWER & WATER CONSTRUCTION IN WISCONSIN AND THE MUNICIPAL REQUIREMENTS.
- EXISTING GRADE SPOT ELEVATIONS SHOWN FOR INFORMATIONAL PURPOSES DURING CONSTRUCTION MATCH EXISTING GRADES AT CONSTRUCTION LIMITS
- 4. NO SITE GRADING OUTSIDE OR DOWNSLOPE OF PROPOSED SILT FENCE LOCATION. NO LAND DISTURBANCE BEYOND PROPERTY LINES.
- JSD SHALL BE HELD HARMLESS AND DOES NOT WARRANT ANY DEVATIONS BY THE OWNER/CONTRACTOR FROM THE APPROVED CONSTRUCTION PLANS THAT MAY RESULT IN DISCIPLINARY ACTIONS BY ANY OR ALL REGULATORY AGENCIES.

SITE PLAN NOTES

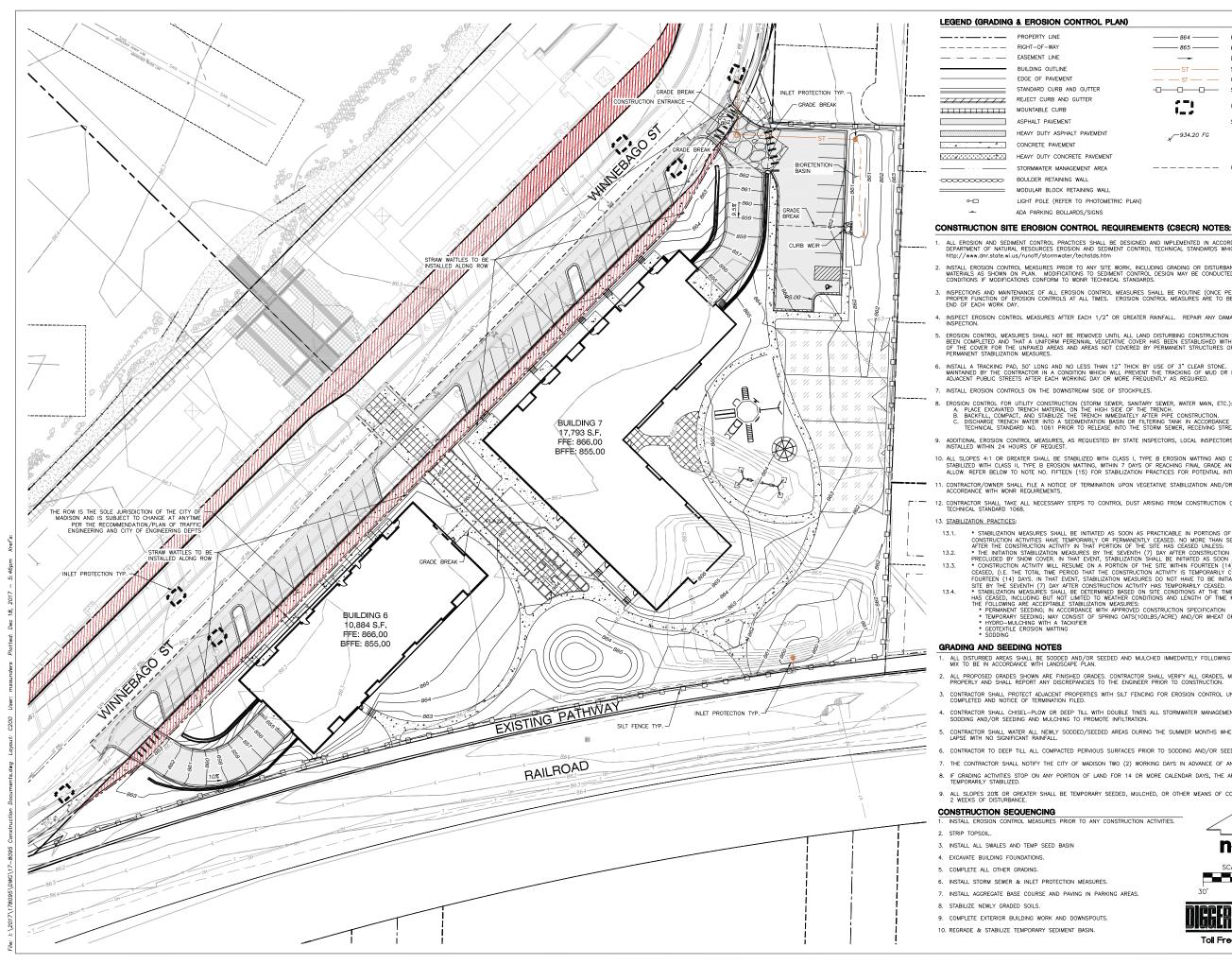
- 1. ALL DIMENSIONS TO FACE OF CURB AND/OR EDGING OF CONCRETE UNLESS OTHERWISE NOTED.
- 2. ALL RADII TO FACE OF CURB AND/OR EDGING OF CONCRETE UNLESS OTHERWISE NOTED.
- ANY REQUIRED REPLACEMENT OF PUBLIC CURB AND GUTTER SHALL MATC EXISTING AND MEET THE REQUIREMENTS OF THE CITY OF MADISON.
- 4. CONTRACTOR SHALL PROVIDE CONTROL JOINTS AND CONSTRUCTION JOINTS OF ONE-QUARTER CONCRETE THICKNESS AT AN EQUAL RATIO OF LENGTH TO WIDTH WHEREVER POSSIBLE WITH A MAXIMUM LENGTH BETWEEN JOINTS OF 8' ON CENTER
- CONTRACTOR SHALL PROVIDE EXPANSION JOINTS IN SIDEWALKS AT A MAXIMUM 24' ON CENTER
- 6. EXTERIOR CONCRETE SURFACES SHALL BE BROOM FINISHED.
- ALL CONCRETE SURFACES TO BE SEALED WITH TYPE TK-26UV CONCRETE SEALANT.
- 8. MARK AND STRIPE ADA PARKING SPACES APPROPRIATELY.
- 9. 2' \times 4' TRUNCATED DOME WARNING DETECTION FIELD SHALL BE PLACED AT ALL ADA RAMPS.
- 10. ALL PAVEMENT MARKINGS INCLUDING: STOP BARS, CROSSWALKS, DIRECTIONAL ARROWS, PARKING STALL LINES, ADA STALL MARKINGS, NO PARKING ZONES, DROP-OFF/PICK-UP ZONES SHALL BE PAINTED WITH HIGH VISIBILITY YELLOW LATEX PAINT PER SPECIFICATIONS.

SITE INFORMATION BLOCK	
Site Address	WINNEBAGO ST
Existing Site Acreage (total)	3.17
Proposed Site Acreage (total)	3.05
Number of Building Stories	4
(above grade)	
Total Building Square Footage	28,676 SF
Use of property	MULTI-FAMILY
Number of parking stalls:	
Surface	
Large Stall	9
Accessible	1
Total Surface	10
Existing vs. Proposed Site Coverage:	
Existing Impervious Surface Area	5,428 S.F.
Existing Pervious Surface Area	132,657 S.F.
Proposed Impervious Surface Area	57,964 S.F.
Proposed Pervious Surface Area	74,894 S.F.
Proposed Impervious Surface Area Ratio *calculated with proposed site acreage 3.05	.44





ISD PROJECT NO:



PROPOSED 1 FOOT CONTOUR SD — 865 — PROPOSED 1 FOOT CONTOUR ----DRAINAGE DIRECTION STORM SEWER — ST -UNDERDRAIN -0--0--SILT FENCE INLET PROTECTION, TYPE D Professional Services, Inc. Engineers • Surveyors • Planners SPOT ELEVATION SPOT ELEVATION EP – EDGE OF PAVEMENT FG – FINISH GRADE EC – EDGE OF CONCRETE TS – DOP OF STEP RIM – RIM ELEVATION _____934.20 FG CREATE THE VISION TELL THE STORY — — — — — — — — GRADE BREAK MADISON MILWAUKEE KENOSHA APPLETON WAUSAU MADISON REGIONAL OFFICE 61 HORIZON DRIVE. SUIT VERONA, WISCONSIN 5 ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE DESIGNED AND IMPLEMENTED IN ACCORDANCE WITH THE CURRENT DEPARTMENT OF NATURAL RESOURCES EROSION AND SEDIMENT CONTROL TECHNICAL STANDARDS WHICH ARE AVAILABLE AT: http://www.dnr.state.wi.us/runoff/stormwater/techstds.htm P. 608.848.5060 2. INSTALL EROSION CONTROL MEASURES PRIOR TO ANY SITE WORK, INCLUDING GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIALS AS SHOWN ON PLAN. MODIFICATIONS TO SEDIMENT CONTROL DESIGN MAY BE CONDUCTED TO MEET UNFORESEEN FIELD CONDITIONS IF MODIFICATIONS CONFORM TO WORK TECHNICAL STANDARDS. ORMAN INSPECTIONS AND MAINTENANCE OF ALL EROSION CONTROL MEASURES SHALL BE ROUTINE (ONCE PER WEEK MINIMUM) TO ENSURE PROPER FUNCTION OF EROSION CONTROLS AT ALL TIMES. EROSION CONTROL MEASURES ARE TO BE IN WORKING ORDER AT THE END OF EACH WORK DAY. INSPECT EROSION CONTROL MEASURES AFTER EACH 1/2" OR GREATER RAINFALL. REPAIR ANY DAMAGE OBSERVED DURING THE INSPECTION. . EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL ALL LAND DISTURBING CONSTRUCTION ACTIVITY AT THE SITE HAS BEEN COMPLETED AND THAT A UNIFORM PERENNAL VEGETATIVE COVER HAS BEEN ESTABLISHED WITH A DENSITY OF AT LEAST 70% OF THE COVER FOR THE UNPACED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES OR THAT EMPLOY EQUIVALENT LIENT ADDRESS: 200 NORTH MAIN STREET NOTFOR ONE THUCHON OREGON, WI, 53575 6. INSTALL A TRACKING PAD, 50' LONG AND NO LESS THAN 12" THICK BY USE OF 3" CLEAR STONE. TRACKING PADS ARE TO BE MAINTAINED BY THE CONTRACTOR IN A CONDITION WHICH WILL PREVENT THE TRACKING OF MUD OR DRY SEDIMENT ONTO THE ADJACENT PUBLIC STREETS AFTER EACH WORKING DAY OR MORE FREQUENTLY AS REQUIRED. 8. EROSION CONTROL FOR UTILITY CONSTRUCTION (STORM SEWER, SANITARY SEWER, WATER MAIN, ETC.):

 A. PLACE EXCANATED TRENCH MATERIAL ON THE HIGH SIDE OF THE TRENCH.
 B. BACKFILL, COMPACT, AND STABILIZE THE TRENCH IMMEDIATELY AFTER PIPE CONSTRUCTION.
 C. DISCHARGE TRENCH WATER INTO A SEDIMENTATION BASIN OR FILTERING TANK IN ACCORDANCE WITH THE DEWATERING TECHNICAL STRANDARD NO. IOGI PRIOR TO RELASE INTO THE STORM SEVER, RECEIVING STRAM, OR DRAINAGE DICH.

 ADDITIONAL EROSION CONTROL MEASURES, AS REQUESTED BY STATE INSPECTORS, LOCAL INSPECTORS, AND/OR ENGINEER SHALL BE INSTALLED WITHIN 24 HOURS OF REQUEST. 10. ALL SLOPES 4:1 OR GREATER SHALL BE STABILIZED WITH CLASS I, TYPE B EROSION MATTING AND DRAINAGE SWALES SHALL BE STABILIZED WITH CLASS II, TYPE B EROSION MATTING, WITHIN 7 DAYS OF REACHING FINAL GRADE AND/OR AS SOON AS CONDITIONS ALLOW. REFER BELOW TO NOTE NO. FIFTEEN (15) FOR STABILIZATION PRACTICES FOR POTENTIAL INTERIM STABILIZATION. CONTRACTOR/OWNER SHALL FILE A NOTICE OF TERMINATION UPON VEGETATIVE STABILIZATION AND/OR PROPERTY SALE IN ACCORDANCE WITH WDNR REQUIREMENTS. 12. CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO CONTROL DUST ARISING FROM CONSTRUCTION OPERATIONS. REFER TO WDNR TECHNICAL STANDARD 1068. UNION CORNERS LOT 1 GRADFAMILY STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE
 CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. NO MORE THAN SEVEN (7) DAYS SHALL PASS
 AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS CEASED UNLESS.
 THE INITIATION STABILIZATION MEASURES BY THE SEVENTH (7) DAY AFTER CONSTRUCTION ACTIVITY HAS CEASED IS
 PRECLUDED BY SNOW COVER. IN THAT EVENT, STABILIZATION SHALL BE INITIATED AS SOON AS PRACTICABLE.
 CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN FOURTEEN (14) DAYS FROM WHEN ACTIVITY
 CEASED, (I.E. THE TOTAL TIME PERIOD THAT THE CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED IS LESS THAN
 FOURTEEN (14) DAYS. IN THAT EVENT, STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE
 SITE WITHIN FOURTEEN (14) DAYS. IN THAT EVENT, STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE
 SITABILIZATION MEASURES SHALL BE DETERMINED BASED ON STAWE TO BE INITIATED OF CONSTRUCTION ACTIVITY
 ESEDITION OF THE SEVENTH (7) DAY AFTER CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED.
 SITABILIZATION MEASURES BASED ON STAWE TO BE INITIATED OF CONSTRUCTION ACTIVITY
 HAS CEASED, INCLUDING BUT NOT I MITED TO WEATHER CONDITIONS AT THE TIME OF CONSTRUCTION ACTIVITY
 HAS CEASED, INCLUDING BUT NOT IMITED TO WEATHER CONDITIONS AND LENGTH OF TIME MEASURE MUST BE EFFECTIVE.
 THE FORLOWING ARE ACCEPTABLE STABILIZATION MEASURES CONSTRUCTION SECIFICATION
 * TEMPORARY SEEDING; IN ACCORDANCE WITH APPROVED CONSTRUCTION SECIFICATION SECIFICATION
 * TEMPORARY SEEDING; MAY CONSIST OF SPRING CASIS(DAS/SACRE) AND/OR WHEAT OR CEREAL RYE (150LB/ACRE)
 * DERMANENT SEEDING; IMAY CONSIST OF SPRING CASIS(SACRE) AND/OR WHEAT OR CEREAL RYE (150LB/ACRE)
 * TEMPORARY SEDIDING; MAY CONSIST OF SPRING CASIS(SACRE) AND/OR WHEAT OR CEREAL RYE (150LB/ACRE)
 * TEMPORARY SEDIDING; MAY CONSIST OF SPRING CASIS(SACRE) AND/OR WHEAT OR CEREAL RYE (150LB/ACRE)
 * DEPRORARY SEDIDIN ROJECT LOCATION CITY OF MADISON, WI DANE COUNTY TEMPORARY SEEDING, IN AUCONSIDE THIS APPROVED CONSTRUCTION SPECIFICATION
 TEMPORARY SEEDING, WAY CONSIST OF SPRING CATS(100LBS/ACRE) AND/OR WHEAT OR CEREAL RYE (150LB/ACRE)
 HYDRO-MULCHING WITH A TACKIFIER
 GEOTEXTILE EROSION MATTING
 SODDING ALL DISTURBED AREAS SHALL BE SODDED AND/OR SEEDED AND MULCHED IMMEDIATELY FOLLOWING GRADING ACTIVITIES. SOD/SEED MIX TO BE IN ACCORDANCE WITH LANDSCAPE PLAN. IFICATIONS: Date: Description 12.20.17 LAND USE SUBMITTAL ALL PROPOSED GRADES SHOWN ARE FINISHED GRADES. CONTRACTOR SHALL VERIFY ALL GRADES, MAKE SURE ALL AREAS DRAIN PROPERLY AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION. CONTRACTOR SHALL PROTECT ADJACENT PROPERTIES WITH SILT FENCING FOR EROSION CONTROL UNTIL CONSTRUCTION IS COMPLETED AND NOTICE OF TERMINATION FILED. CONTRACTOR SHALL CHISEL-PLOW OR DEEP TILL WITH DOUBLE TINES ALL STORMWATER MANAGEMENT FACILITIES JUST PRIOR TO SODDING AND/OR SEEDING AND MULCHING TO PROMOTE INFILTRATION. CONTRACTOR SHALL WATER ALL NEWLY SODDED/SEEDED AREAS DURING THE SUMMER MONTHS WHENEVER THERE IS A 7 DAY LAPSE WITH NO SIGNIFICANT RAINFALL. CONTRACTOR TO DEEP TILL ALL COMPACTED PERVIOUS SURFACES PRIOR TO SODDING AND/OR SEEDING AND MULCHING. 7. THE CONTRACTOR SHALL NOTIFY THE CITY OF MADISON TWO (2) WORKING DAYS IN ADVANCE OF ANY SOIL DISTURBING ACTIVITY. 8. IF GRADING ACTIVITIES STOP ON ANY PORTION OF LAND FOR 14 OR MORE CALENDAR DAYS, THE AREA IN QUESTION MUST BE TEMPORARILY STABILIZED. 9. ALL SLOPES 20% OR GREATER SHALL BE TEMPORARY SEEDED, MULCHED, OR OTHER MEANS OF COVER PLACED ON THEM WITHIN 2 WEEKS OF DISTURBANCE. Design/Drawn: MSS 12/13/2013 proved: MSS 12/13/2017 PRIOR TO ANY CONSTRUCTION ACTIVITIES GRADING & EROSION north CONTROL PLAN C200

Toll Free (800) 242-8511

SD PROJECT NO

ТҮРЕ	DESCRIPTION	LAMP SOURCE	DEL. LUMENS	ССТ	MOUNTING	MANUFACTURER & SERIES	VOLTAGE	INPUT WATTS
B1	42" HIGH TYPE II LATERAL THROW EXTERIOR BOLLARD. BLACK FINISH.	LED	600	3000	BOLLARD	LUMIERE 303-B1-LEDB1-3000-UNV-T2-DIMELV-BK-42	UNV	9
B2	42" HIGH TYPE IV FORWARD THROW BOLLARD. BLACK FINISH.	LED	1240	3000	BOLLARD	LUMIERE 303-B1-LEDB2-3000-UNV-T4-DIMELV-BK-42	UNV	16
PL1	TYPE 2 DISTRIBUTION AREA LIGHT WITH SHARP CUTOFF BACKLIGHT. PROVIDE WITH SQUARE STRAIGHT STEEL 22.5' POLE. MOUNT ON 2.5' RAISED CONCRETE BASE. BLACK FINISH.	LED	4570	3000	POLE	MCGRAW EDISON GALLEON GLEON-AF-01-LED-E1-SL2-BK-7030	UNV	59
ST2	LARGE CONCRETE POUR EXTERIOR STEPLIGHT, BLACK FINISH. MOUNT AT 36" AFG.	LED	890	3000	RECESSED/ WALL	WE-EF QRI374 616-2321/ 616-9330	UNV	18
W2	TRAPEZOIDAL CUTOFF LUMINAIRE, BLACK FINISH.	LED	4055	3000	WL	MCGRAW EDISON IST-AF-800LED-E1-SL4-BK-7030	UNV	44

GENERAL NOTE: ALWAYS REFER TO MANUFACTURER DATA FOR DIMMER COMPATIBILITY AND DETAILS. SOME DIMMERS REQUIRE A NEUTRAL IN THE WALL BOX.

KEY	
CL	CEILING
CV	COVE
RE	RECESSED
SP	SUSPENDED
WL	WALL

DIMMING NON-DIM NON-DIM NON-DIM

DESCRIPTION

Eon 303-B1-LEDB1 is a compact, low profile, dimmable, LED bollard that provides downlight only via a fixed head. 303-B1-LEDB1 has a single head on one side of the luminaire. The bollard comes standard with universal input LED driver (120-277V, 50/60 Hz). Dimming is achieved with a standard ELV, reverse phase dimming driver or an optional 0-10V dimming driver. Eon fixtures may be used indoors or outdoors and carry an IP66 rating. The patented LumaLeveITM leveling systemprovides quick installation, easy adjustment, secure mounting and protection from vibration.

SPECIFICATION FEATURES

Construction

The head of the 303-B1-LEDB1 is precision machined from corrosionresistant 6061-T6 aluminum. Body is extruded aluminum and adjustable mounting base is cast from corrosion resistant aluminum alloy. Stainless steel hardware is included. Four (4) 3/8" x 12" galvanized anchor bolts and a galvanized steel anchor bolt template are standard. Specify option -LAB and order the anchor bolt/template kit seperately (Catalog: 7581-01PK).

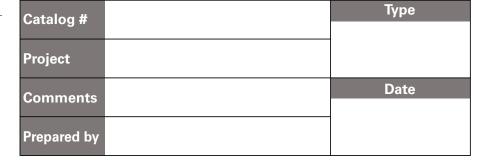
Optical

LightBAR[™] and optical assembly are sealed by a clear, impact resistant tempered glass lens. The optical assembly is available in three distributions: T2 (lateral throw), T4 (forward throw) and T5X (Flood). Available in several color temperatures: 2700K, 3000K, 3500K, 4000K and TSAM (Amber). Both color temperature and distribution must be specified when ordering – see catalog logic for details. An edge-lit option is available.

Electrical

The bollard is standard with an ELV trailing edge phase dimmable driver that accepts a universal input (120-277, 50/60Hz). An optional 0-10V universal dimming driver is also available. Both driver options incorporate surge protection. The receptacle option incorporates a specification grade, 120V, 15A tamper proof and weather resistant duplex GFCI. The photocell option comes in either a 120V or 277V. Please see Option section for more detail.

> 5.7″ 145mm



Finish

Luminaire and mounting base are double protected by a RoHS compliant chemical film undercoating and polyester powdercoat paint finish. The mounting base is painted black. The luminaire housing and head are available in a variety of standard colors. RAL and custom color matches are available upon request. As an option, the Eon bollards are also available in colors to match other outdoor Eaton product lines, such as Invue. See the Finish section in the ordering detail for more detail.

Warranty

Lumiere warrants the EON series of fixtures against defects in material and workmanship for five (5) years. Auxiliary equipment such as LED drivers carries the original manufacturer's warranty.



Lumière

303-B1-LEDB1 EON LED

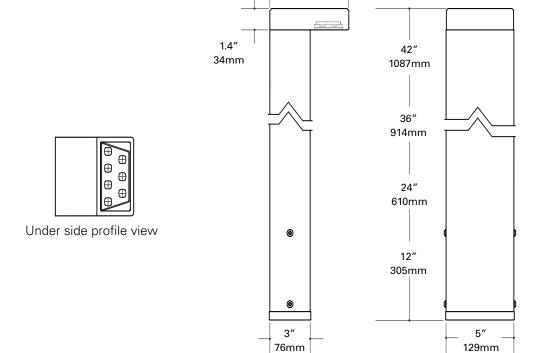
APPLICATIONS: BOLLARD

CERTIFICATION DATA

UL and cUL Wet Location Listed LM79 / LM80 Compliant ROHS Compliant IP66 Ingressed Protection Rated

TECHNICAL DATA 50°C Maximum Temperature Rating External Supply Wiring 90°C Minimum





Sample Number: 303-B1-LEDB1-2700-120-T2-DIM10-BK-42-EDGE-PC1-RFL-LAB

B1

303-B1-LEDB1 2700=2700K UNV=120-277V ¹ T2 = Type II, DIMELV=Trailing Edge Painted 3000=3000K 120=120V Lateral Throw Phase Dim- BK=Black	12 =12″ ⁵	
Head contains one (1) 3500=3500K 277=277V ² T4 = Type IV, ForwardThrow ming Driver BZ=Bronze Mini LightBAR™ 4000= 4000K TSAM=Turtle Safe Amber (585-595nm) TSAM=Turtle Safe Amber T5X = Type V, Extra Wide Flood Driver WT=White Premium Paint AP=Grey Pe=Dark Platinum	24 =24" 36 =36" 42 =42"	PC1=Photocontrol 120V ⁷ PC2=Photocontrol 208-277V ⁷

NOTES: 1 Universal Voltage (UNV) is standard unless specifying Photocontrol or Receptacle (RIU or RFL - 120V) options. 2 Specify for PC2 option only. 3 Custom and RAL color matching available upon request. Consult factory for further information. 4 Bollard heights are nominal (shown in inches). 5 12" length not available with RIU or RFL options. 6 Add suffix in the order shown. 7 Must specify voltage when ordering. 8 When specifying LAB option the anchor bolts and template need to be ordered seperately 7581-01PK. 9 DesignLights ConsortiumTM Qualified and classified for DLC Standard. Refer to www.designlights.org for details on exact qualified EON 303-B1-LEDB1 product as not all configurations are DLC classified.



TD501001EN March 14, 2016

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (72,000 Hours)	TM-21 Reported L70(10k) (Hours)	Theoretical L70 (Hours)
25°C			
40°C	> 94%	> 60,000	365,000
50°C			

CURRENT DRAW

Model	Line Voltage	Current Draw
303-B1-LEDB1	120-277V, 50/60Hz	0.068A

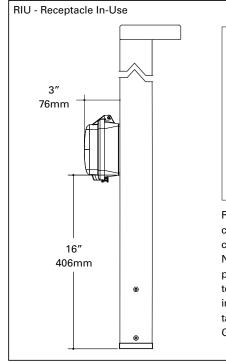
MAX LOAD RATING

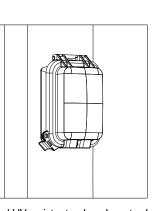
Options	Line Voltage	Max Load Rating		
PC1	120V, 50/60Hz	1000VA, 8.3A		
PC2	208-277V, 50/60Hz	1000VA, 8.3A		
RIU or RFL	120V, 50/60Hz	1800VA, 15A		

Optic Type	Distribution	Watts	Delivered Lumens	LPW	CCT (K) / Color	CRI nom./ Wavelength	B-U-G Rating
			361	44	2700	95	
Т2		8.5	600	74	3000	75	
		0.5	419	51	3500	85	B0-U0-G0
(LateralThrow)			661	81	4000	75	
		6.5	184	28	TSAM (Amber)	585-595nm	
			353	43	2700	95	
Т4	\int	8.5	587	72	3000	75	
	-	0.5	410	50	3500	85	B0-U0-G0
(ForwardThrow)			647	79	4000	75	
		6.5	180	28	TSAM (Amber)	585-595nm	
			316	39	2700	95	
T5X	$\left(\right)$	8.5	525	65	3000	75	
			367	45	3500	85	B0-U0-G0
(Extra Wide Flood)			579	71	4000	75	
		6.5	161	25	TSAM (Amber)	585-595nm	

OPTIONS

Receptacle Options (120V Only)

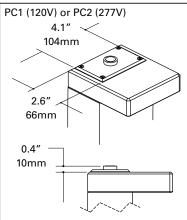




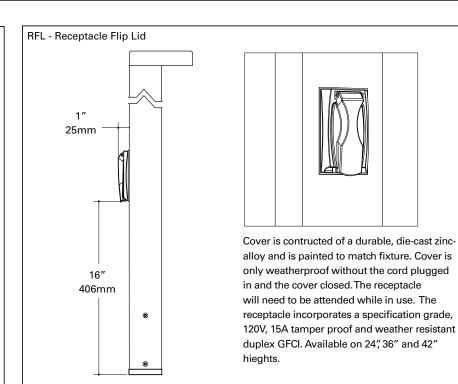
LUMENS - CRI/CCT TABLE

Rugged UV-resistant polycarbonate clear cover and gray body protects GFCI without cracking or breaking and is non- corrosive. Note: Cover is weatherproof with the cord plugged in and the receptacle is not required to be attended while in use. The receptacle incorporates a specification grade, 120V, 15A tamper proof and weather resistant duplex GFCI. Available on 24," 36" and 42" hieghts.

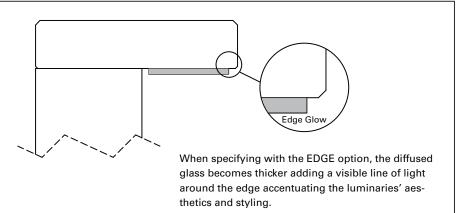
Photocontrol



Photocontrol cover is precision machined from corrosion-resistant 6061-T6 aluminum and is secured to bollard head with tamper resistant stainless steel hardware. The photocontrol option is available in dedicated 120V or 208-277V. When specifying a photocontrol option make sure to designate the appropriate voltage within the catalog logic.



Edge



TECHNICAL NOTES:

1. Adjustable mounting base - Cast aluminum mounting base is equipped with the patented LumaLevel" leveling system that includes mounting base,

70 shore neoprene base, stainless steel hardware and a slot to accommodate two inbound and outbound 3/4" conduits. It provides quick installation, easy adjustment, secure mounting and protection from vibration.



Eaton

18001 East Colfax Avenue Aurora, CO 80011 P: 303-393-1522 www.eaton.com/lighting

Specifications and dimensions subject to change without notice.

TD501001EN March 14, 2016



Filename: B1_303-B1-LEDB1-3000-UNV-T2-DIM10-BK.ies
[TEST] P174930 TEST IS SCALED FROM IESNA LM-79-08 TEST
DATA (P33867)
[TESTLAB] INNOVATIONS CENTER-P3
[ISSUEDATE] 6/4/2015
[MANUFAC] EATON - LUMIERE (FORMER COOPER LIGHTING)
[LUMCAT] 303-B1-LEDB1-3000-UNV-T2-DIM10-BK
[LUMINAIRE] LUMIERE EON 303-B1, SINGLE HEAD BOLLARD,
SINGLE LED BAR. TYPE II LATERAL THROW OPTICS, CLEAR
GLASS LENS.
[LAMP] (7) 3000K CCT, 75 CRI LEDS

Maximum Candela = 561.3 at 75 H 62.5 V

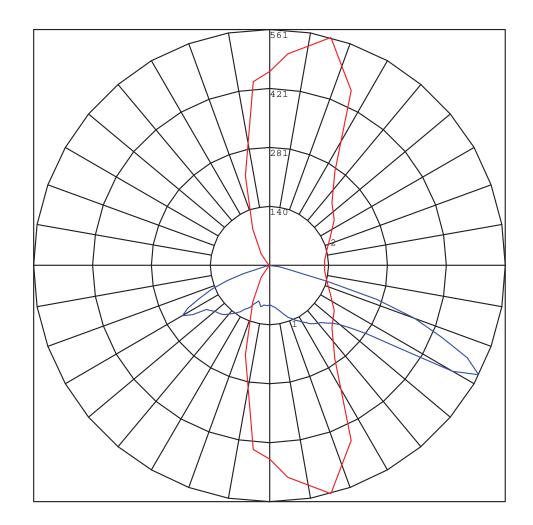
Classification:

Road Classification: Type II, Short, N.A. (deprecated) Upward Wast Light Ratio: 0.00 Luminaire Efficacy Rating (LER): 73 Indoor Classification: Direct BUG Rating : B0-U0-G0

Polar Candela Curves:

Vertical Plane Through: 1) 75 - 255 Horizontal

Horizontal Cone Through: 2) 62.5 Vertical





Filename: B1_303-B1-LEDB1-3000-UNV-T2-DIM10-BK.ies
[TEST] P174930 TEST IS SCALED FROM IESNA LM-79-08 TEST
DATA (P33867)
[TESTLAB] INNOVATIONS CENTER-P3
[ISSUEDATE] 6/4/2015
[MANUFAC] EATON - LUMIERE (FORMER COOPER LIGHTING)
[LUMCAT] 303-B1-LEDB1-3000-UNV-T2-DIM10-BK
[LUMINAIRE] LUMIERE EON 303-B1, SINGLE HEAD BOLLARD,
SINGLE LED BAR. TYPE II LATERAL THROW OPTICS, CLEAR
GLASS LENS.
[LAMP] (7) 3000K CCT, 75 CRI LEDS

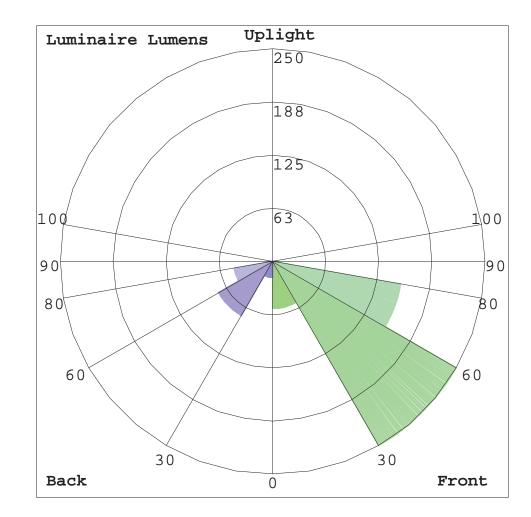
Maximum Candela = 561.3 at 75 H 62.5 V

Classification:

Road Classification: Type II, Short, N.A. (deprecated) Upward Waste Light Ratio: 0.00 Luminaire Efficacy Rating (LER): 73 Indoor Classification: Direct BUG Rating : B0-U0-G0

LCS Summary:

LCS Zone FL (0-30) FM (30-60) FH (60-80) FVH (80-90) BL (0-30) BM (30-60) BH (60-80) BVH (80-90) UL (90-100) UL (100-180) Total	Lumens 55.5 250.1 153.3 2.4 18.7 73.3 45.8 0.4 0.0 0.0 599.5	<pre>%Lamp N.A. N.A. N.A. N.A. N.A. N.A. N.A. N.A</pre>	<pre>%Lum 9.3 41.7 25.6 0.4 3.1 12.2 7.6 0.1 0.0 0.0 100.0</pre>
Total BUG Rating	599.5 B0-U0-G0	N.A.	100.0



DESCRIPTION

Eon 303-B1-LEDB2 is a compact, low profile, dimmable, LED bollard that provides downlight only via a fixed head. 303-B1-LEDB2 has a single head on one side of the luminaire. The bollard comes standard with universal input LED drivers (120-277V, 50/60 Hz). Dimming is achieved with a standard ELV, reverse phase dimming driver or an optional 0-10V dimming driver. Eon fixtures may be used indoors or outdoors and carry an IP66 rating. The patented LumaLeveITM leveling systemprovides quick installation, easy adjustment, secure mounting and protection from vibration.

SPECIFICATION FEATURES

Construction

The head of the 303-B1-LEDB2 is precision machined from corrosionresistant 6061-T6 aluminum. Body is extruded aluminum and adjustable mounting base is cast from corrosion resistant aluminum alloy. Stainless steel hardware is included. Four (4) 3/8" x 12" galvanized anchor bolts and a galvanized steel anchor bolt template are standard. Specify option -LAB and order the anchor bolt/template kit seperately (Catalog: 7581-01PK).

Optical

LightBAR[™] and optical assembly are sealed by a clear, impact resistant tempered glass lens. The optical assembly is available in three distributions: T2 (lateral throw), T4 (forward throw) and T5X (Flood). Available in several color temperatures: 2700K, 3000K, 3500K, 4000K and TSAM (Amber). Both color temperature and distribution must be specified when ordering – see catalog logic for details. An edge-lit option is available.

Electrical

The bollard is standard with an ELV trailing edge phase dimmable driver that accepts a universal input (120-277, 50/60Hz). The standard driver is ELV trailing edge phase dimable. An optional 0-10V dimming driver is also available. Both driver options incorporate surge protection. The receptacle option incorporates a specification grade, 120V, 15A tamper proof and weather resistant duplex GFCI. The photocell option comes in either a 120V or 277V. Please see Option section for more detail. Finish

Catalog #

Comments

Prepared by

Project

Luminaire and mounting base are double protected by a RoHS compliant chemical film undercoating and polyester powdercoat paint finish. The mounting base is painted black. The luminaire housing and head are available in a variety of standard colors. RAL and custom color matches are available upon request. As an option, the Eon bollards are also available in colors to match other outdoor Eaton product lines, such as Invue. See the Finish section in the ordering detail for more detail. The LightBAR[™] cover plates are standard white.

Warranty

Lumiere warrants the EON series of fixtures against defects in material and workmanship for five (5) years. Auxiliary equipment such as LED drivers carries the original manufacturer's warranty.



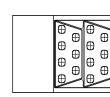
303-B1-LEDB2 EON LED

APPLICATIONS: BOLLARD

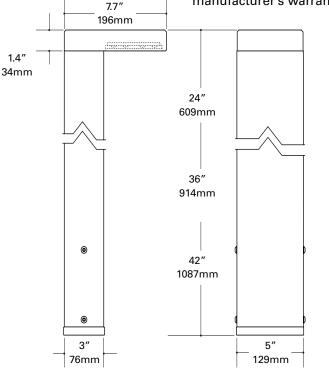


TECHNICAL DATA 50°C Maximum Temperature Rating External Supply Wiring 90°C Minimum





Under side profile view



ORDERING INFORMATION

Sample Number: 303-B1-LEDB2-2700-120-T2-DIM10-BK-42-EDGE-PC1-RFL-LAB

B2

Lumière

Туре

Date

Series ⁸	Color Temperature	Input Voltage	Optics	Dimming	Finish ³	Height ⁴	Options ⁵
303-B1-LEDB2 Head contains two (2) Mini LightBAR™	2700=2700K 3000=3000K 3500=3500K 4000= 4000K TSAM=Turtle Safe Amber (585-595nm)	UNV=120-277V ¹ 120=120V 277=277V ²	T2 =Type II, LateralThrow T4 =Type IV, ForwardThrow T5X =Type V, Extra Wide Flood	DIMELV=Trailing Edge Phase Dim- ming Driver DIM10=0-10V Dimming Driver	Painted BK=Black BZ=Bronze CS=City Silver WT=White Premium Paint AP=Grey DP=Dark Platinum	24 =24" 36 =36" 42 =42"	EDGE=Edge lit glass lens PC1=Photocontrol 120V ⁶ PC2=Photocontrol 208-277V ⁶ RIU=Receptacle - In Use (120V Only) ⁶ RFL=Receptacle - Flip-Lid (120V Only) ⁶ LAB=Less Anchor Bolts & Template ⁷
					GM =Graphite Metallic		

NOTES: 1 Universal Voltage (UNV) is standard unless specifying Photocontrol or Receptacle (RIU or RFL - 120V) options. 2 Specify for PC2 option only. 3 Custom and RAL color matching available upon request. Consult factory for further information. 4 Bollard heights are nominal (shown in inches). 5 Add suffix in the order shown. 6 Must specify voltage when ordering. 7 When specifying LAB option the anchor bolts and template need to be ordered seperately 7581-01PK. 8 DesignLights ConsortiumTM Qualified and classified for DLC Standard. Refer to www.designlights.org for details on exact qualified EON 303-B1-LEDB2 product as not all configurations are DLC classified.



ADL121470 March 15, 2016

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (72,000 Hours)	TM-21 Reported L70(10k) (Hours)	Theoretical L70 (Hours)
25°C			
40°C	> 94%	> 60,000	365,000
50°C			

CURRENT DRAW

Model	Line Voltage	Current Draw
303-B1-LEDB2	120-277V, 50/60Hz	0.13A

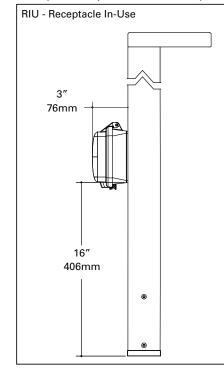
MAX LOAD RATING

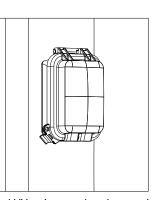
Options	Line Voltage	Max Load Rating	
PC1	120V, 50/60Hz	10001/4 0.04	
PC2	208-277V, 50/60Hz	1000VA, 8.3A	
RIU or RFL	120V, 50/60Hz	1800VA, 15A	

CRI nom./ Delivered Distribution CCT (K) / Color **B-U-G Rating Optic Type** Watts LPW Wavelength Lumens 51 2700 783 95 1300 3000 75 84 T2 15.5 909 59 3500 85 B1-U0-G1 (Lateral Throw) 1433 93 4000 75 12.1 398 31 TSAM (Amber) 585-595nm 747 48 2700 95 1241 75 80 3000 Τ4 15.5 B0-U0-G0 868 3500 85 56 (Forward Throw) 1368 4000 75 88 12.1 380 29 TSAM (Amber) 585-595nm 682 44 2700 95 1132 73 3000 75 T5X 15.5 792 51 3500 85 B1-U0-G0 (Extra Wide Flood) 1248 81 4000 75 12.1 347 27 TSAM (Amber) 585-595nm

OPTIONS

Receptacle Options (120V Only)

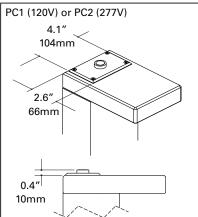




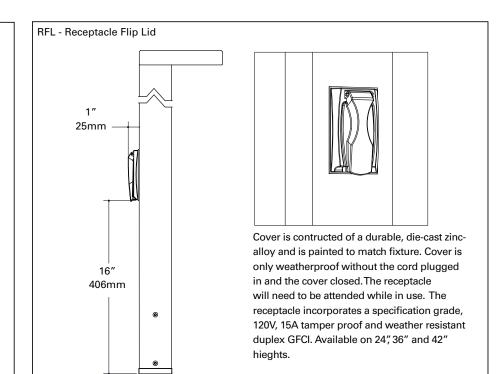
LUMENS - CRI/CCT TABLE

Rugged UV-resistant polycarbonate clear cover and gray body protects GFCI without cracking or breaking and is non- corrosive. Note: Cover is weatherproof with the cord plugged in and the receptacle is not required to be attended while in use. The receptacle incorporates a specification grade, 120V, 15A tamper proof and weather resistant duplex GFCI. Available on 24," 36" and 42" hieghts.

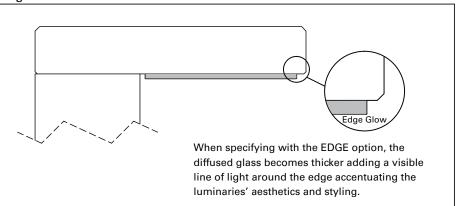
Photocontrol



Photocontrol cover is precision machined from corrosion-resistant 6061-T6 aluminum and is secured to bollard head with tamper resistant stainless steel hardware. The photocontrol option is available in dedicated 120V or 208-277V. When specifying a photocontrol option make sure to designate the appropriate voltage within the catalog logic.







TECHNICAL NOTES:

 Adjustable mounting base - Cast aluminum mounting base is equipped with the patented LumaLevel" leveling system that includes mounting base, 70 shore neoprene base, stainless steel hardware and a slot to accommodate two inbound and outbound 3/4" conduits. It provides quick installation, easy adjustment, secure mounting and protection from vibration.

Powering Business Worldwide

Eaton

18001 East Colfax Avenue Aurora, CO 80011 P: 303-393-1522 www.eaton.com/lighting

Specifications and dimensions subject to change without notice.

ADL121470 March 15, 2016



Filename: B3_303-B1-LEDB2-3000-UNV-T4-DIM10-BK.ies
[TEST] P174954 TEST IS SCALED FROM IESNA LM-79-08 TEST
DATA (P33871)
[TESTLAB] INNOVATIONS CENTER-P3
[ISSUEDATE] 6/4/2015
[MANUFAC] EATON - LUMIERE (FORMER COOPER LIGHTING)
[LUMCAT] 303-B1-LEDB2-3000-UNV-T4-DIM10-BK
[LUMINAIRE] LUMIERE EON 303-B1, SINGLE HEAD BOLLARD,
DOUBLE LED BAR. TYPE IV FORWARD THROW OPTICS, CLEAR
GLASS LENS.
[LAMP] (14) 3000K CCT, 75 CRI LEDS

Maximum Candela = 802.4 at 45 H 66 V

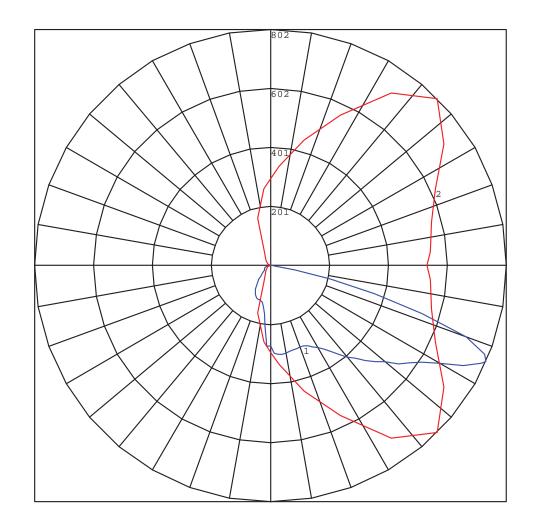
Classification:

Road Classification: Type IV, Short, N.A. (deprecated) Upward Wast Light Ratio: 0.00 Luminaire Efficacy Rating (LER): 80 Indoor Classification: Direct BUG Rating : B0-U0-G0

Polar Candela Curves:

Vertical Plane Through: 1) 45 - 225 Horizontal

Horizontal Cone Through: 2) 66 Vertical





Filename: B3_303-B1-LEDB2-3000-UNV-T4-DIM10-BK.ies
[TEST] P174954 TEST IS SCALED FROM IESNA LM-79-08 TEST
DATA (P33871)
[TESTLAB] INNOVATIONS CENTER-P3
[ISSUEDATE] 6/4/2015
[MANUFAC] EATON - LUMIERE (FORMER COOPER LIGHTING)
[LUMCAT] 303-B1-LEDB2-3000-UNV-T4-DIM10-BK
[LUMINAIRE] LUMIERE EON 303-B1, SINGLE HEAD BOLLARD,
DOUBLE LED BAR. TYPE IV FORWARD THROW OPTICS, CLEAR
GLASS LENS.
[LAMP] (14) 3000K CCT, 75 CRI LEDS

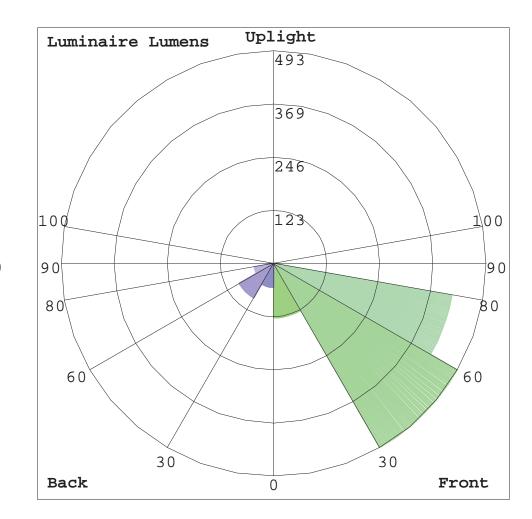
Maximum Candela = 802.4 at 45 H 66 V

Classification:

Road Classification: Type IV, Short, N.A. (deprecated) Upward Waste Light Ratio: 0.00 Luminaire Efficacy Rating (LER): 80 Indoor Classification: Direct BUG Rating : B0-U0-G0

LCS Summary:

LCS Zone FL (0-30) FM (30-60) FH (60-80) FVH (80-90) BL (0-30) BM (30-60) BH (60-80) BVH (80-90) UL (90-100) UL (100-180) Total	Lumens 125.6 492.6 420.6 8.2 55.0 91.8 45.3 1.3 0.0 0.0 1240.4	<pre>%Lamp N.A. N.A. N.A. N.A. N.A. N.A. N.A. N.A</pre>	<pre>%Lum 10.1 39.7 33.9 0.7 4.4 7.4 3.7 0.1 0.0 0.0 100.0</pre>
Total BUG Rating	1240.4 B0-U0-G0	N.A.	100.0



DESCRIPTION

The Galleon[™] LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics[™] system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated and UL/cUL Listed for wet locations.

PL1 McGraw-Edison

Catalog #	Туре
Project	
Comments	Date
Prepared by	

SPECIFICATION FEATURES

Construction

Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, diecast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested and rated. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

Optics

Patented, high-efficiency injection-molded AccuLED Optics technology. Optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT 70 CRI. Optional 3000K, 5000K and 6000K CCT.

Electrical

LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Standard with 0-10V dimming. Shipped standard with Eaton proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 600mA, 800mA and 1200mA drive currents (nominal).

Mounting

STANDARD ARM MOUNT: Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during mounting. When mounting two or more luminaires at 90° and 120° apart, the EA extended arm may be required. Refer to the arm mounting requirement table. Round pole adapter included. For wall mounting, specify wall mount bracket option. QUICK MOUNT ARM: Adapter is bolted directly to the pole. Quick mount arm slide into place on the adapter and is secured via two screws, facilitating quick and easy installation. The versatile, patent pending, quick mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8". Removal of the door on the quick mount arm enables wiring of the fixture without having to access the driver compartment. A knock-out enables round pole mounting.

Finish

Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is powder coated black. Standard housing colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.

Warranty

Five-year warranty.



GLEON GALLEON LED

1-10 Light Squares Solid State LED

AREA/SITE LUMINAIRE

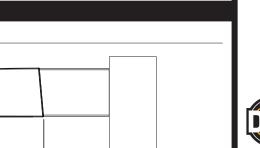


CERTIFICATION DATA UL/cUL Wet Location Listed ISO 9001 LM79 / LM80 Compliant 3G Vibration Rated IP66 Rated

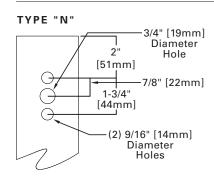
DIMENSION DATA

DIMENSIONS

DRILLING PATTERN



Number of "A" Light Squares Width		"B″ Standard Arm Length	"B" Optional Arm Length ¹	Weight with Arm (Ibs.)	EPA with Arm ² (Sq. Ft.)
1-4	15-1/2" (394mm)	7" (178mm)	10" (254mm)	33 (15.0 kgs.)	0.96
5-6	21-5/8" (549mm)	7" (178mm)	10" (254mm)	44 (20.0 kgs.)	1.00
7-8 27-5/8" (702mm)		7" (178mm)	13" (330mm)	54 (24.5 kgs.)	1.07
9-10	33-3/4" (857mm)	7" (178mm)	16" (406mm)	63 (28.6 kgs.)	1.12



DesignLights Consortium[™] Qualified*

ENERGY DATA Electronic LED Driver

>0.9 Power Factor
<20% Total Harmonic Distortion
120V-277V 50/60Hz
347V & 480V 60Hz
-40°C Min. Temperature
40°C Max. Temperature
50°C Max. Temperature (HA Option)



TD500020EN 2016-09-28 15:31:55

NOTES: 1. Optional arm length to be used when mounting two fixtures at 90° on a single pole. **2.** EPA calculated with optional arm length.



*www.designlights.org

GLEON GALLEON LED

ORDERING INFORMATION

Sample Number: GLEON-AF-04-LED-E1-T3-GM-QM

Product Family ^{1, 2}	Light Engine	Number of Light Squares ³	Lamp Type	Voltage	Distribution		Color	Mounting
GLEON =Galleon	AF=1A Drive Current	01=1 02=2 03=3 04=4 05=5 06=6 07=7 ⁴ 08=8 ⁴ 09=9 ⁵ 10=10 ⁵	LED=Solid State Light Emitting Diodes	E1=120-277V 347=347V ⁶ 480=480V ^{6,7}	277V T2 =Type II V ⁶ T2R =Type II Roadway		AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White	[Blank]=Arm for Round or Square Pole EA=Extended Arm ⁸ MA=Mast Arm Adapter ⁹ WM=Wall Mount QM=Quick Mount Arm (Standard Length) ¹⁰ QMEA=Quick Mount Arm (Extended Length) ¹¹
Options (Add as S	uffix)				1	Accessories (Order Sepa	rately)	
PER7=NEMA 7-PIN R=NEMA Twistlocd AHD145=After Hou AHD255=After Hou AHD255=After Hou AHD355=After Hou AHD355=After Hou HA=50°C High Am MS/DIM-L08=Moti MS/DIM-L08=Moti MS/DIM-L40=Moti MS/DIM-L40=Moti MS/X-L08=Bi-Leve MS/X-L40=Bi-Leve MS/X-L40=Bi-Leve MS/X-L40=Bi-Leve MS/X-L40=Bi-Leve MS/X-L40=Bi-Leve MS-L20=Motion Sc MS-L40=Motion Sc MS-L40=Motion LWR-LW=LumaWa	(13 (12 Factory Set to N Factory Set to N t Factory Set to N t Factory Set to N t, 277 or 347V. M 08, 240 or 480V. 7 V Dimming Lead otocontrol (120, 2 1 Twistlock Photos (2 Photocontrol R (120, 2 1 Twistlock Photos (2 Photocontrol R (10, 2 1 Twistlock Photos (1	ominal 800mA ¹⁴ Nominal 1200mA ¹⁴ ust Specify Voltage Must Specify Voltage 208, 240 or 277V. M beceptacle 18 18 18 18 18 18 18 18 18 18 18 18 18) ge) Maximum 8' Mounting 9' - 20' Mounting Heig 21' - 40' Mounting Heig 21' - 40' Mounting Heig n, 21' - 40' Mounting Heig Height ^{20, 22, 25} I Height ^{20, 23, 25} Ing Height (Wide Range hum 8' Mounting Height ^{20, 22} 0' Mounting Height ^{20, 22} 0' Mounting Height ^{20, 22} 40' Mounting Height (' ' - 16' Mounting Height ('	ht ^{20, 22} ght ^{20, 23} eight (Wide Rang e) ^{20, 24, 25} nt ^{20, 21} 3 Wide Range) ^{20, 24} t ²⁶	-	OA/RA1027=NEMA Phot OA/RA1201=NEMA Phot OA/RA1013=Photocontro OA/RA1014=120V Photo MA1252=10kV Surge Mod MA1036-XX=Single Tend MA1037-XX=2@180° Tend MA1197-XX=3@120° Tend MA1188-XX=4@90° Tend MA1189-XX=2@90° Tend MA1190-XX=3@90° Tend MA1191-XX=2@120° Tend MA1038-XX=Single Tend MA1039-XX=2@180° Tend MA1039-XX=2@180° Tend MA1039-XX=2@180° Tend MA1192-XX=3@120° Tend MA1192-XX=3@120° Tend MA1193-XX=4@90° Tend MA1193-XX=4@90° Tend MA1193-XX=3@90° Tend MA1193-XX=3@90° Tend MA1193-XX=3@90° Tend GLEON-MT1=Field Instal GLEON-MT2=Field Instal GLEON-MT3=Field Instal	isocontrol - 347V ol Shorting Cap control odule Replacement on Adapter for 2-3/8" O.D. non Adapter for 2-3/8" O.D. non Adapter for 2-3/8" O.D. on Adapter for 2-3/8" O.D. on Adapter for 2-3/8" O.D. on Adapter for 2-3/8" O.D. non Adapter for 2-3/8" O.D. on Adapter for 3-1/2" O.D. non Adapter for 3-1/2" O.D. on Adapter for 3-1/2" O.D. guration Tool for Occupa led Mesh Top for 1-4 Ligh led Mesh Top for 7-8 Ligh led Mesh Top for 7-8 Ligh led Mesh Top for 9-10 Ligh t Arm Kit ount Extended Arm Kit	Tenon D. Tenon D. Tenon . Tenon . Tenon D. Tenon D. Tenon D. Tenon D. Tenon . Tenon . Tenon . Tenon . Tenon ncy Sensor ²⁰ tt Squares nt Squares nt Squares

NOTES:

Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information.
 DesignLights Consortium[™] Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.

Standard 4000K CCT and minimum 70 CRI.
 Not compatible with extended quick mount arm (QMEA).

6. Not compatible with standard quick mount arm (QM) or extended quick mount arm (QMEA).
6. Requires the use of an internal step down transformer when combined with sensor options. Not available with sensor at 1200mA. Not available in combination with the HA high ambient and sensor options at 1A.
7. Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase

High Leg Delta and Three Phase Corner Grounded Delta systems). 8. May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table.

9. Factory installed.

Maximum 8 light squares.
 Maximum 6 light squares.

12. Extended lead times apply. Use dedicated IES files for 3000K, 5000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website. 13. Extended lead times apply. Use dedicated IES files for 3000K, 5000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website.

14. 1 Amp standard. Use dedicated IES files for 600mA, 800mA and 1200mA when performing layouts. These files are published on the Galleon luminaire product page on the website.

15. Not available with HA option.

16. 2L is not available with MS, MS/X or MS/DIM at 347V or 480V. 2L in AF-02 through AF-04 requires a larger housing, normally used for AF-05 or AF-06. Extended arm option may be required when mounting two or more fixtures per pole at 90°

17. Not available with LumaWatt wireless sensors.

Requires the use of P photocontrol or the PER7 or R photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information.
 50°C lumen maintenance data applies to 600mA, 800mA and 1A drive currents.

20. The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.

Approximately 22' detection diameter at 8' mounting height.
 Approximately 40' detection diameter at 20' mounting height.

Approximately 60' detection diameter at 40' mounting height.
 Approximately 100' detection diameter at 40' mounting height.

25. Replace X with number of Light Squares operating in low output mode.

26. LumaWatt wireless sensors are factory installed only requiring network components RF-EM-1, RF-GW-1 and RF-ROUT-1 in appropriate quantities. See www.eaton.com/lighting for LumaWatt application information.

27. Not available with house side shield (HSS).

28. Only for use with SL2, SL3, SL4 and AFL distributions. The Light Square trim plate is painted black when the HSS option is selected. **29**. CE is not available with the LWR, MS, MS/X, MS/DIM, P, R or PER7 options. Available in 120-277V only.

30. One required for each Light Square.



Eaton

1121 Highway 74 South Peachtree City, GA 30269 P: 770-486-4800 www.eaton.com/lighting

Specifications and dimensions subject to change without notice.

TD500020EN 2016-09-28 15:31:55



Filename: PL1_GLEON-AF-01-LED-E1-SL2-7030-HSS.ies
[TEST] P192789 TEST IS SCALED FROM IESNA LM-79-08 TEST
DATA (P24287)
[TESTLAB] Innovations Center P2
[ISSUEDATE] 7/21/2016
[MANUFAC] EATON - McGRAW-EDISON (FORMER COOPER
LIGHTING)
[LUMCAT] GLEON-AF-01-LED-E1-SL2-7030-HSS
[LUMINAIRE] GALLEON AREA AND ROADWAY LUMINAIRE (1) 70
CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND
TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD

Maximum Candela = 6291.8 at 67 H 67 V

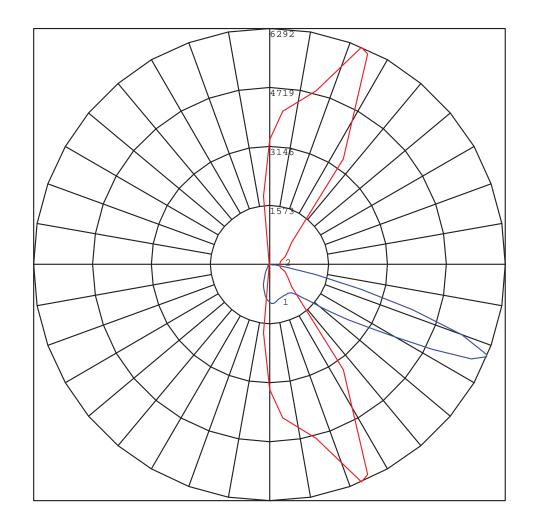
Classification:

Road Classification: Type II, Short, N.A. (deprecated) Upward Wast Light Ratio: 0.00 Luminaire Efficacy Rating (LER): 77 Indoor Classification: Direct BUG Rating : B1-U0-G1

Polar Candela Curves:

Vertical Plane Through: 1) 67 - 247 Horizontal

Horizontal Cone Through: 2) 67 Vertical



PL1



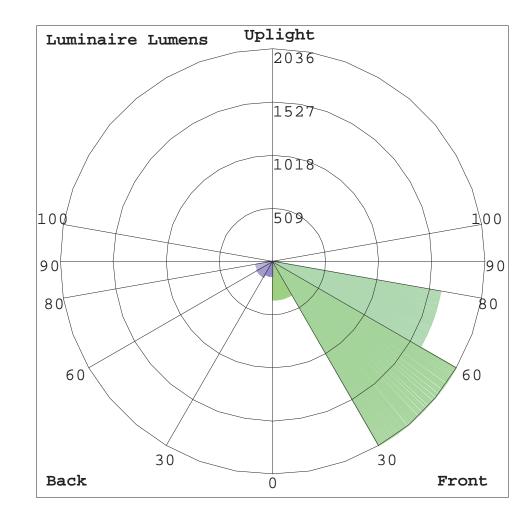
Filename: PL1_GLEON-AF-01-LED-E1-SL2-7030-HSS.ies
[TEST] P192789 TEST IS SCALED FROM IESNA LM-79-08 TEST
DATA (P24287)
[TESTLAB] Innovations Center P2
[ISSUEDATE] 7/21/2016
[MANUFAC] EATON - McGRAW-EDISON (FORMER COOPER
LIGHTING)
[LUMCAT] GLEON-AF-01-LED-E1-SL2-7030-HSS
[LUMINAIRE] GALLEON AREA AND ROADWAY LUMINAIRE (1) 70
CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND
TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD

Maximum Candela = 6291.8 at 67 H 67 V

Classification:

Road Classification: Type II, Short, N.A. (deprecated) Upward Waste Light Ratio: 0.00 Luminaire Efficacy Rating (LER): 77 Indoor Classification: Direct BUG Rating : B1-U0-G1

LCS Summary:



ORI374 LED 616-2321

1/3

we-ef

ST2



Description

IP55. Recessed LED wall luminaire. Shielded light source. Suitable for installation in cavity wall construction or concrete pour construction using optional installation blockout.

Beam Type	asymmetric, forward-throw
Lamp Type	14 LED 14W (3000K)
CRI	80
Gear Type	electronic gear
Nominal Luminous Flux (Ir	n)
LED Lumens	100 lm
LEDs	14
Total Lumens	1400 lm
Tj	85 °C
Rated Luminous Flux (Im)	
LED Lumens	63.9 lm
Total Lumens	894.2 lm
Та	25 °C
Rated Input Power	18 W

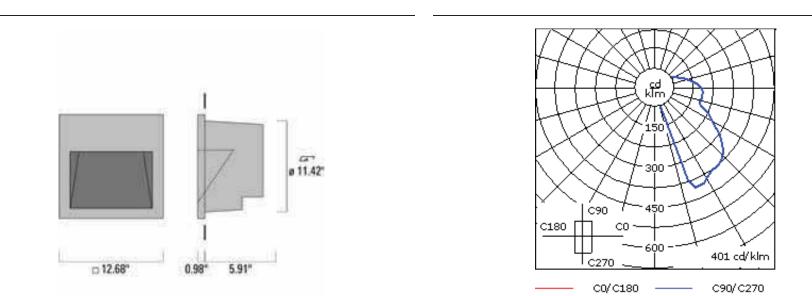
WE-EF LIGHTING USA LLC

410-D Keystone Drive | Warrendale PA 15086 | U.S.A. | Tel +1 724 742 0030 | Fax +1 724 742 0035 | info.usa@we-ef.com | www.we-ef.com

QRI374 LED

616-2321

2/3



we-ef

Material Specification

Body:	Luminaire body and lens frame constructed in die cast aluminum.
Weight (lbs):	16.00
Lens:	Tempered glass lens.
Gasket:	Silicone rubber gasket
Fasteners:	PCS polymer coated stainless steel
Ingress protection:	IP55
Impact protection:	IK10
Corrosion protection:	5CE
Finish:	Powder coat finish in Black RAL9004, White RAL9016, Grey Metallic RAL9007 or Dark Bronze RAL8019.
Mounting:	Suitable for installation in cavity wall construction or concrete pour construction using optional installation blockout.

Power supply: Integral [ECG] LED driver in 120 or 277 volt. Specify voltage. Cable: Suitable for through wiring.

Ambient Temperature

Ta less than 25 deg C

WE-EF LIGHTING USA LLC

410-D Keystone Drive | Warrendale PA 15086 | U.S.A. | Tel +1 724 742 0030 | Fax +1 724 742 0035 | info.usa@we-ef.com | www.we-ef.com

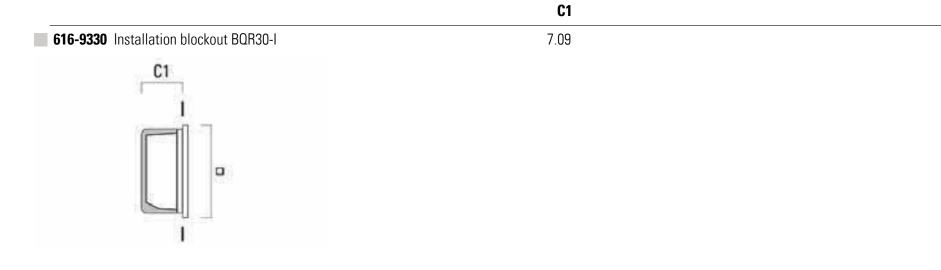
ORI374 LED 616-2321

3/3

Mounting Accessories

Installation blockout

Optional mounting accessories for concrete pour installations. Installation blockout. Suitable for installing recesses wall luminaire in concrete pour installations. Serve as rough-in housing prior to installation of luminaire. Includes hardware necessary for attachment to formwork.



we-ef

WE-EF LIGHTING USA LLC

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Filename: ST2_WE-EF_616-2321.ies
[TEST] LM 2473
[TESTLAB] WE-EF
[ISSUEDATE] 20 Sep 2013
[MANUFAC] WE-EF USA
[LUMCAT] 616-2321
[LUMINAIRE] QRI374-LED, Wall Luminaires / Recessed
QRI374-LD-14/14W Painted;QRI374-LED, Wall Luminaires /
Recessed
[LAMPCAT] 14 LED white 14W (3000K)
[LAMP] 14 LED, Warm White - 120° angle of beam
LEDLUMENS=100.0 lm, LEDs No=14, TOTALLUMENS= 1400.0 lm
, Tj=85° LEDLUMENS=63.9 lm, LEDs No=14, TOTALLUMENS= 894.2 lm, Ta=25°C

Maximum Candela = 561.4 at 0 H 22.5 V

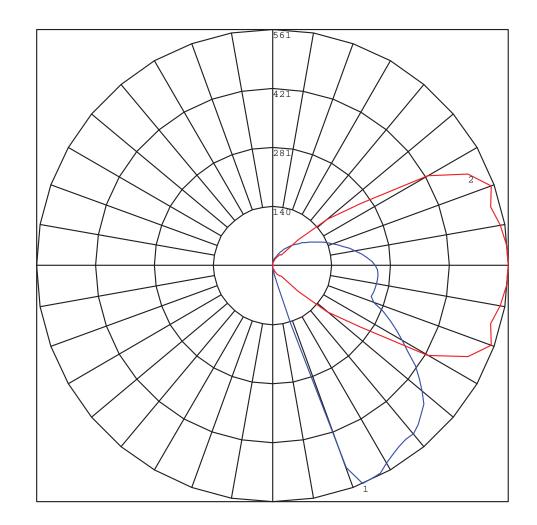
Classification:

Road Classification: Type III, Very Short, N.A. (deprecated) Upward Wast Light Ratio: 0.24 Luminaire Efficacy Rating (LER): 50 Indoor Classification: Semi-Direct BUG Rating : B0-U3-G1

Polar Candela Curves:

Vertical Plane Through: 1) 0 - 180 Horizontal

Horizontal Cone Through: 2) 22.5 Vertical



ST2



Filename: ST2_WE-EF_616-2321.ies
[TEST] LM 2473
[TESTLAB] WE-EF
[ISSUEDATE] 20 Sep 2013
[MANUFAC] WE-EF USA
[LUMCAT] 616-2321
[LUMINAIRE] QRI374-LED, Wall Luminaires / Recessed
QRI374-LD-14/14W Painted;QRI374-LED, Wall Luminaires /
Recessed
[LAMPCAT] 14 LED white 14W (3000K)
[LAMP] 14 LED, Warm White - 120° angle of beam
LEDLUMENS=100.0 lm, LEDS No=14, TOTALLUMENS= 1400.0 lm
, Tj=85° LEDLUMENS=63.9 lm, LEDS No=14, TOTALLUMENS= 894.2 lm, Ta=25°C

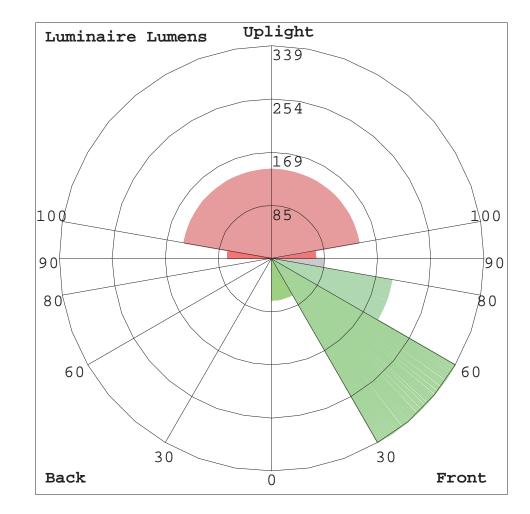
Maximum Candela = 561.4 at 0 H 22.5 V

Classification:

Road Classification: Type III, Very Short, N.A. (deprecated) Upward Waste Light Ratio: 0.24 Luminaire Efficacy Rating (LER): 50 Indoor Classification: Semi-Direct BUG Rating : B0-U3-G1

LCS Summary:

LCS Zone FL (0-30) FM (30-60) FH (60-80) FVH (80-90) BL (0-30) BM (30-60) BH (60-80) BVH (80-90) UL (90-100) UL (90-100) UH (100-180) Total	Lumens 66.2 338.6 195.0 82.5 0.0 0.0 0.0 0.0 70.3 141.7 894.3	<pre>%Lamp N.A. N.A. N.A. N.A. N.A. N.A. N.A. N.A</pre>	<pre>%Lum 7.4 37.9 21.8 9.2 0.0 0.0 0.0 0.0 7.9 15.9 100.0</pre>
Total BUG Rating	894.3 B0-U3-G1	N.A.	100.0



page 1

DESCRIPTION

The Impact Elite family of wall luminaires is the ideal complement to site design. Incorporating modular LightSquares technology, the Impact Elite luminaire provides outstanding uniformity and energy-conscious illumination. Combined with a rugged construction, the Impact Elite luminaire is the ideal facade and security luminaire for zones surrounding schools, office complexes, apartments and recreational facilities. UL/cUL listed for wet locations.

W2 **McGraw-Edison**

Catalog #	Туре
Project	
Comments	Date
Prepared by	

SPECIFICATION FEATURES

Construction

Heavy-wall, die-cast aluminum housing and removable hinged door frame for precise tolerance control and repeatability. Hinged door inset for clean mating with housing surface and secured via two captive fasteners. Optional tamper-resistant Torx[™] head fasteners offer vandal resistant access to the electrical chamber.

Optics

Choice of 10 patented, highefficiency AccuLED Optics™ distributions. Optics are precisely designed to shape the light output, maximizing efficiency and application spacing. AccuLED Optics technology creates consistent distributions with the scalability to meet customized application requirements. Offered Standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 3000K, 5000K and 5700K CCT.

Electrical

LED drivers mount to die-cast aluminum back housing for optimal heat sinking, operation efficacy, and prolonged life. Standard drivers feature electronic universal voltage (120-277V 50/60Hz), 347V 60Hz or 480V 60Hz operation, greater than 0.9 power factor, less than 20% harmonic distortion, and are suitable for operation in -40°C to 40°C ambient environments. All fixtures are shipped standard with 10kV/10kA common - and differential - mode surge protection. LightSquares feature an IP66 enclosure rating and maintain greater than 90% lumen maintenance at 60,000 hours per IESNA TM-21. Emergency egress options for -20°C ambient environments and occupancy sensor available.

Mounting

Gasketed and zinc plated rigid steel mounting attachment fits directly to 4" j-box or wall with the Impact Elite "Hook-N-Lock" mechanism for quick installation. Secured with two captive corrosion resistant black oxide coated allen head set screws concealed but accessible from bottom of fixture.

Finish

Cast components finished in a five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult the McGraw-Edison Architectural Colors brochure for the complete selection.

Warranty Five-year warranty.









ISC/ISS/IST/ISW IMPACT ELITE LED

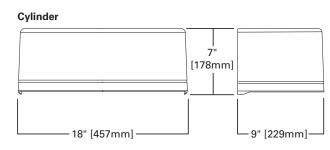
1 LightSquare Solid State LED

WALL MOUNT LUMINAIRE

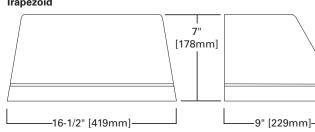
CERTIFICATION DATA

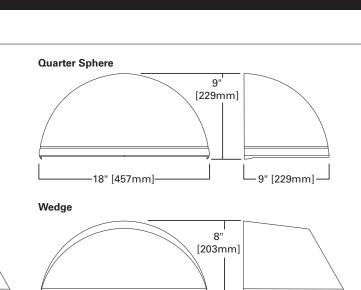
UL/cUL Listed LM79 / LM80 Compliant IP66 LightSquare ortium[®] Qualified* ISO 9001

DIMENSIONS



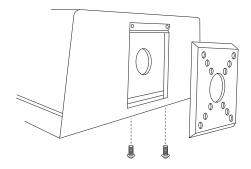
Trapezoid





-16-1/2" [419mm]

HOOK-N-LOCK MOUNTING





ENERGY DATA Electronic LED Driver

>0.9 Power Factor <20% Total Harmonic Distortion 120-277V/50 & 60Hz, 347V/60Hz, 480V/60Hz -40°C Minimum Temperature 40°C Ambient Temperature Rating

SHIPPING DATA Approximate Net Weight: 18 lbs. (8 kgs.)



TD514030EN August 22, 2017 8:54 AM

*www.designlights.org

-8-1/4" [210mm]·

ISC/ISS/IST/ISW IMPACT ELITE LED

POWER AND LUMENS

1 LightSquare (AF)		Cylinder (ISC) and Quarter Sphere (ISS)						Trapezoid (IST) and Wedge (ISW)						
Drive Current (mA)		350	450	600	800	1000	1200	350	450	600	800	1000	1200	
Power (Watts) 120-277V		7V	20.3	25.5	33.4	43.9	55.1	66.2	20.3	25.5	33.4	43.9	55.1	66.2
Current (A)	120V		0.17	0.22	0.29	0.38	0.48	0.56	0.17	0.22	0.29	0.38	0.48	0.56
Current (A)) 277V		0.09	0.10	0.13	0.17	0.21	0.25	0.09	0.10	0.13	0.17	0.21	0.25
Power (Watts) 347V or 480V		23.3	28.7	36.6	49.5	60.7	70.1	23.3	28.7	36.6	49.5	60.7	70.1	
0	347V		0.07	0.08	0.11	0.15	0.18	0.21	0.07	0.08	0.11	0.15	0.18	0.21
Current (A)) 480V		0.05	0.06	0.08	0.11	0.13	0.16	0.05	0.06	0.08	0.11	0.13	0.16
Optics														
T2	Lumens		2,336	2,934	3,827	4,791	5,663	6,444	2,498	3,136	4,091	5,122	6,054	6,889
12	BUG Rating		B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2
Т2	Lumens		2,385	2,994	3,906	4,889	5,779	6,577	2,504	3,144	4,101	5,133	6,068	6,905
T3	BUG Rating		B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2
T4FT	Lumens		2,360	2,963	3,866	4,839	5,720	6,509	2,530	3,177	4,145	5,188	6,133	6,979
	BUG Rating		B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2
T4W	Lumens		2,386	2,996	3,908	4,892	5,783	6,581	2,500	3,139	4,095	5,126	6,059	6,895
1400	BUG Rating		B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2
SL2	Lumens		2,257	2,834	3,697	4,628	5,470	6,225	2,413	3,030	3,953	4,948	5,849	6,656
	BUG Rating		B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2
SL3	Lumens		2,220	2,787	3,636	4,552	5,380	6,122	2,365	2,970	3,874	4,849	5,732	6,523
	BUG Rating		B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2
SL4	Lumens		2,110	2,649	3,456	4,326	5,113	5,818	2,234	2,805	3,660	4,581	5,415	6,162
	BUG Rating		B0-U0-G1	B0-U0-G1	B0-U0-G1	B0-U0-G1	B0-U0-G1	B0-U0-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2
SLL/SLR	Lumens		1,990	2,498	3,259	4,080	4,823	5,488	2,154	2,705	3,529	4,418	5,222	5,942
	BUG Rating		B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2
RW –	Lumens		2,380	2,988	3,898	4,880	5,768	6,564	2,465	3,095	4,037	5,054	5,974	6,798
	BUG Rating		B2-U0-G0	B2-U0-G0	B2-U0-G0	B2-U0-G0	B2-U0-G0	B2-U0-G0	B3-U1-G1	B3-U1-G1	B3-U1-G1	B3-U1-G1	B3-U1-G1	B3-U1-G1

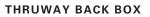
LUMEN MAINTENANCE

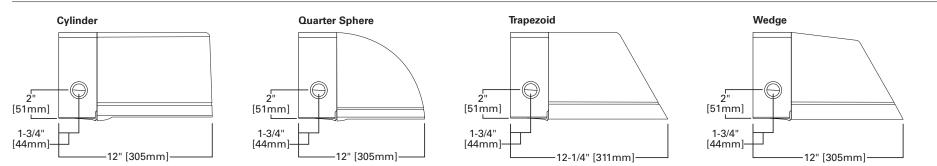
Current	Ambient	25000	50000	60000	100000	Theoretical	
	Temperature	Hours*	Hours*	Hours*	Hours*	L70 (Hours)*	
Up to 1.2A	Up to 40°C	>95%	>91%	>90%	>83%	20,4000	

*Data calculated based on TM-21 calculator.

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
10°C	1.02
15°C	1.01
25°C	1.00
40°C	0.99





page 2



Eaton 1121 Highway 74 South Peachtree City, GA 30269 P: 770-486-4800 www.eaton.com/lighting

Specifications and dimensions subject to change without notice.

TD514030EN August 22, 2017 8:54 AM

ISC/ISS/IST/ISW IMPACT ELITE LED

ORDERING INFORMATION

Sample Number: ISC-AF-1200-LED-E1-T3-BZ

Product Family ¹	Light Engine	Drive Current	Lamp Type	Voltage	Distribution	Color		
ISC=Impact Elite LED Small Cylinder ISS=Impact Elite LED Small Quarter Sphere IST=Impact Elite LED Small Trapezoid ISW=Impact Elite LED Small Wedge	AF =(1) LightSquare	350=Drive Current Factory Set to 350mA 450=Drive Current Factory Set to 450mA 600=Drive Current Factory Set to 600mA 800=Drive Current Factory Set to 800mA 1000=Drive Current Factory Set to 1000mA 1200=Drive Current Factory Set to 1200mA ²	LED=Solid State Light Emitting Diodes	E1=Electronic (120-277V) 347=347V ² 480=480V ^{2,3}	T2=Type II T3=Type III T4FT=Type IV Forward Throw T4W=Type IV Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White		
Options (Add as Suffix)	I	l	1	Accessories (Order Separately) ¹⁷				
7030=70 CRI / 3000K CCT ⁴ 7050=70 CRI / 5000K CCT ⁴ 8030=80 CRI / 3000K CCT ⁴ PER7=NEMA 7-PIN Twistlock Photocontrol Receptacle ^{2,5,6} P=Button Type Photocontrol (Available in 120, 208, 240 or 277V. Must Specify Voltage) HA=50°C High Ambient ⁷ AHD145=After Hours Dim, 5 Hours, 50% ⁸ AHD245=After Hours Dim, 7 Hours, 50% ⁸ AHD255=After Hours Dim, 7 Hours, 50% ⁸ AHD355=After Hours Dim, 8 Hours, 50% ⁸ MS/DIM-LXX=Motion Sensor for Dimming Operation ^{9, 10, 11} LWR-LW=LumaWatt Pro Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height ^{11, 12} LWR-LN=LumaWatt Pro Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height ^{11, 12} BBB=Battery Pack with Back Box (Specify 120V or 277V) ¹³ CWB=Cold Weather Battery Pack with Back Box (Specify 120V or 277V) ¹⁴ LCF=LightSquare Trim Plate Matches Housing Finish HSS=Factory Installed House Side Shield ¹⁵ ULG=Uplight Glow ^{5,6} TR=Tamper Resistant Hardware X=Driver Surge Protection (6kV) Only ¹⁶					Circuit Module Replacement Iruway Back Box - Impact Elite Tra Iruway Back Box - Impact Elite Cy Iruway Back Box - Impact Elite Qu ruway Back Box - Impact Elite We ess Configuration Tool for Occup	linder Jarter Sphere edge		

NOTES:

1. Standard 4000K CCT and greater than 70 CRI.
2. Not available with ULG option.
3. Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
 Exentended lead times apply.
 Not available with LSS or ISW.
 Not available with LWR-XX or MS/DIM-LXX.
 Suitable for 50°C provided no options other than motion sensor are included and driver output set to 1.A or less.
 Requires the use of P photocontrol or the PER7 photocontrol receptacle with photocontrol accessory. Not available with 350mA drive current. See After Hours Dim supplemental guide for additional information.
 Specify lens in place of XX. Round to next highest option based on mounting height. Available options are 08, 20 and 40W.
 The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.
 LumaWatt Pro wireless sensors are factory installed and requiring network components in appropriate quantities. See www.eaton.com/lighting for LumaWatt Pro application information.
 LeD standard integral battery pack is rated for minimum operating temperature 32°F (0°C). Operates downlight for 90-minutes.
 LeD old weather integral battery pack is rated for minimum operating temperature 32°F (0°C). Operates downlight for 90-minutes.
 Only for use with SL2, SL3 and SL4 distributions. The LightSquare trim plate is painted black when the HSS option is selected.
 Removes additional surge module.
 Specify color in place of XX.

page 3



Eaton

1121 Highway 74 South Peachtree City, GA 30269 P: 770-486-4800 www.eaton.com/lighting

Specifications and dimensions subject to change without notice.

TD514030EN August 22, 2017 8:54 AM



Filename: W5_Mc-Graw-Edisonn_IST-AF-800-LED-E1-SL4-7030.ies
[TEST] P227116 TEST IS SCALED FROM IESNA LM-79-08 TEST
DATA (P35947)
[TESTLAB] INNOVATION CENTER-P3
[ISSUEDATE] 7/28/2017
[MANUFAC] EATON - McGRAW-EDISON (FORMER COOPER
LIGHTING)
[LUMCAT] IST-AF-800-LED-E1-SL4-7030
[LUMINAIRE] IMPACT ELITE LED TRAPEZOID LUMINAIRE LIGHT
SQUARE WITH ACCULED OPTICS-TYPE IV W/SPILL CONTROL
[LAMP] (16) 3000K CCT, 70 CRI LEDs

Maximum Candela = 3452.6 at 39 H 69 V

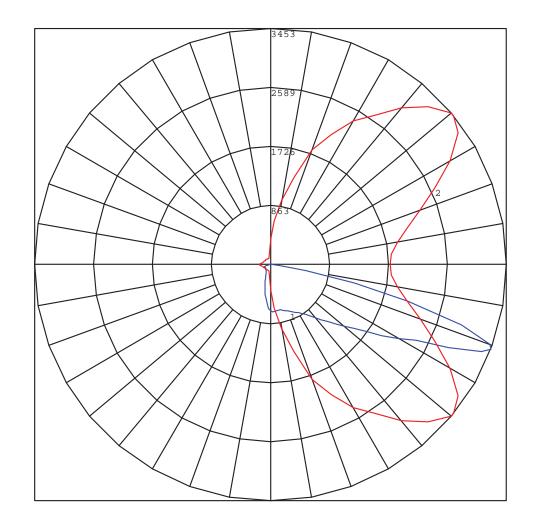
Classification:

Road Classification: Type IV, Short, N.A. (deprecated) Upward Wast Light Ratio: 0.00 Luminaire Efficacy Rating (LER): 93 Indoor Classification: Direct BUG Rating : B1-U1-G1

Polar Candela Curves:

Vertical Plane Through: 1) 39 - 219 Horizontal

Horizontal Cone Through: 2) 69 Vertical



W2



Filename: W5_Mc-Graw-Edisonn_IST-AF-800-LED-E1-SL4-7030.ies
[TEST] P227116 TEST IS SCALED FROM IESNA LM-79-08 TEST
DATA (P35947)
[TESTLAB] INNOVATION CENTER-P3
[ISSUEDATE] 7/28/2017
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LCS Summary:

