



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

ARCHITECTURAL & DESIGN REVIEW APPLICATION

Applicant/Contact Person: DAN LEEDER

Address: 2242 KENNEDY ROAD Phone Number of Contact Person: 262-374-1018

City, State, Zip Code: JANESVILLE, WI 53545 Email of Contact Person: 26 DAN@NOBLEKNIGHT.COM

Project Address: 2880 COMMERCE PARK DR. Lot: 2 Subdivision: CSM 8736

Project Type: Multi-Family Commercial Industrial Other

New Addition

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

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

Site Data:

- 1. Lot or property dimensions.
- 2. Orientation (to north).
- 3. Adjacent highways, roads, drive, etc.
- 4. Existing natural features (rivers, ponds, wetlands).
- 5. Existing buildings and/or improvements.
- 6. Existing and proposed site drainage.
- 7. Utility plans, including main/lateral sizes and existing fire hydrants on site or within 300 feet of the site
- 8. ISR shall be indicated on all plans.
- 9. Stormwater management plans and details, including grading plan.
- 10. Lighting plan in footcandles and light fixture cut sheets.

Building:

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

Ingress, Egress, Parking:

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

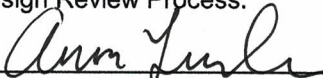
Landscaping:

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

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

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

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

Signed:  Date: 10/22/17
 Applicant or Authorized Agent

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

FOR CITY USE ONLY

Date Received: _____ Plan Commission Date: _____

Comments:

OWNER

Noble Knight Games
2242 Kennedy Rd
Janesville, WI 53545

STEEL BUILDING DESIGNER

NUCOR Building Systems
305 Industrial Parkway
Waterloo, IN 46793
(260) 837-7891

CIVIL ENGINEER

K.D. Engineering Consultants, Inc.
2600 County Hwy. Y
Dodgeville, WI 53533
(608) 935-3310
(608) 935-3360 (f)

GENERAL CONTRACTOR

Davis Steel Buildings
2342 HWY AB
McFarland, WI 53558
(608) 838-8213

BUILDING OCCUPANT LOAD

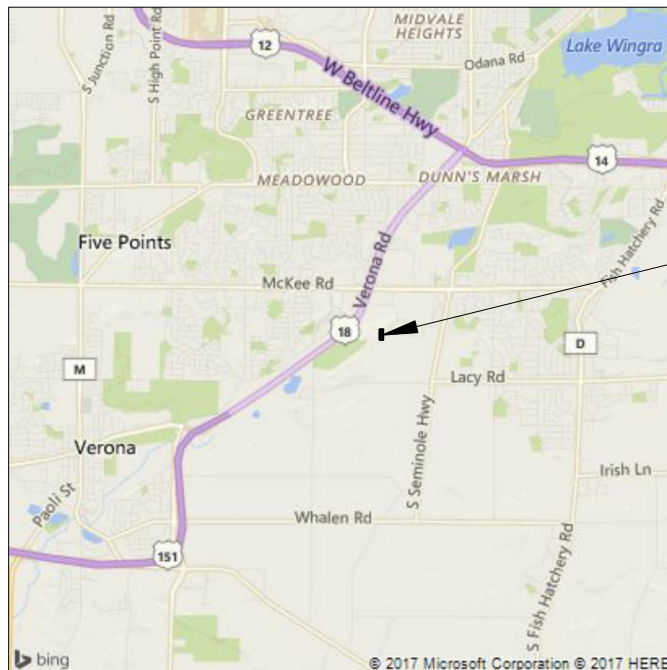
MAIN FLOOR=

SPECIFICATIONS FOR THIS PROJECT

1. SHALL CONFORM TO THE INTERNATIONAL ENERGY CONSERVATION CODE, 2009
2. SHALL CONFORM TO THE INTERNATIONAL BUILDING CODE, 2009
3. SHALL CONFORM TO THE STATE OF WISCONSIN, DIVISION OF SAFETY AND PROFESSIONAL SERVICES CODE FOR DESIGN, CONSTRUCTION, INSTALLATION, SUPERVISION, MAINTENANCE AND INSPECTION OF PLUMBING, SPS 382-384
4. SHALL CONFORM TO THE "STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION" BY THE STATE OF WISCONSIN DEPT. OF TRANSPORTATION, 2017 EDITION
5. SHALL CONFORM TO THE "STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN", SIXTH EDITION, DECEMBER 22, 2003 WITH ADDENDUM NO. 2, APRIL 22, 2008
6. SHALL CONFORM TO THE "AMERICAN SOCIETY FOR TESTING AND MATERIALS" STANDARDS FOR TEST PROCEDURES AND MATERIALS
7. SHALL CONFORM TO THE "AMERICAN WATER WORKS ASSOCIATION" CONSTRUCTION AND TESTING STANDARDS AND PROCEDURES
8. SHALL CONFORM TO THE "AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS" CONSTRUCTION STANDARDS AND DESIGN GUIDELINES
9. SHALL CONFORM TO THE "AMERICAN CONCRETE INSTITUTE" CONSTRUCTION AND TESTING STANDARDS AND DESIGN GUIDELINES FOR CONCRETE FORMWORK, REINFORCING AND CAST-IN-PLACE CONCRETE
10. SHALL CONFORM TO THE "AMERICAN INSTITUTE OF STEEL CONSTRUCTION" SPECIFICATION FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS
11. SHALL CONFORM TO THE "SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION FOR DESIGN, FABRICATION AND DETAILS FOR SHEET METALS
12. SHALL CONFORM TO THE "UNDERWRITERS LABORATORIES" STANDARDS FOR TEST PROCEDURES AND MATERIALS AND THE "NATIONAL FIRE PROTECTION ASSOCIATION" TEST PROCEDURES AND MATERIALS
13. SHALL CONFORM TO THE "AMERICANS WITH DISABILITIES ACT" ACCESSIBILITY GUIDELINES
14. SHALL CONFORM TO THE "AMERICAN NATIONAL STANDARDS INSTITUTE", PROVIDING ACCESSIBILITY AND USABILITY FOR PHYSICALLY HANDICAPPED PEOPLE, 1992 EDITION
15. SHALL CONFORM TO THE "NATIONAL FIRE PROTECTION ASSOCIATION", NFPA 10, NFPA 13, NFPA 70, NFPA 80, NFPA 101, AND NFPA 105
16. SHALL CONFORM TO THE "COMMERCIAL STANDARDS", PRODUCTS STANDARDS SECTION OFFICE OF ENGINEERING STANDARDS SERVICE, NBS
17. SHALL CONFORM TO THE "MANUFACTURERS STANDARDIZATION SOCIETY" OF THE VALVE AND FITTING INDUSTRY
18. SHALL CONFORM TO THE "TEK MANUAL FOR CONCRETE MASONRY DESIGN AND CONSTRUCTION, NATIONAL CONCRETE MASONRY ASSOCIATION"
19. SHALL CONFORM TO THE "WISCONSIN DEPARTMENT OF ADMINISTRATION MASTER SPECIFICATIONS / DESIGN GUIDELINES"

NOBLE KNIGHT GAMES

Fitchburg, WI
Dane County



PROJECT LOCATION



City of Fitchburg

N.T.S.



PROPOSED BUILDING CODE INFORMATION	
CODE:	2009 IBC
TYPE OF PROJECT:	NEW BUILDING CONSTRUCTION
MAIN OCCUPANCY:	GROUP S
ADDITIONAL OCCUPANCY:	GROUP B, M
CONSTRUCTION CLASS:	TYPE IIIB
BUILDING AREA:	45,000 SF
NUMBER OF STORIES:	1
SPRINKLER SYSTEM:	NFPA 13
DESIGN TEMPERATURE:	HEATED

INDEX OF SHEETS

- T-1.0 Title Page
- L-1.0 Landscape Plan
- C-1.0 Site Plan
- C-2.0 Site Construction Details
- C-3.0 Site Construction Details
- A-1.0 Elevation Views
- A-2.0 Floor Plan

SNOW INFORMATION

GROUND SNOW LOAD (Pg) = 30 PSF
SNOW EXPOSURE FACTOR (Ce) = 1.0
SNOW IMPORTANCE FACTOR (I) = 1.0
THERMAL FACTOR (Ct) = 1.0
FLAT-ROOF SNOW LOAD (Pf) = 21.0 PSF
SLOPE FACTOR (Cs) = 1.0
SLOPED-ROOF SNOW LOAD (Ps) = 21.0 PSF

WIND INFORMATION

WIND ENCLOSURE = ENCLOSED
BASIC WIND SPEED = 90 mph
WIND EXPOSURE CATEGORY = B
WIND EXPOSURE FACTOR = 1.00
WIND IMPORTANCE FACTOR = 1.00

MATERIAL REQUIREMENTS

- CONCRETE - 4,000 psi. ultimate compressive strength @ 28 days. 5" maximum slump, 3/4 maximum size aggregate, minimum 5 1/2 bags cement per cubic yard; calcium chloride admixtures are not permitted.
- REINFORCING STEEL - Grade 60 per ASTM A615; all bars to be deformed, new material, free of rust and scale.

REVISIONS

NOBLE KNIGHT GAMES

FITCHBURG, WI

TITLE PAGE

ENGINEERING
SURVEYING
ENVIRONMENTAL

(608) 935-3310

ENGINEERING
CONSULTANTS, INC.

2600 C.T.H. Y - DODGEVILLE, WI 53533

DATE: 10/24/17

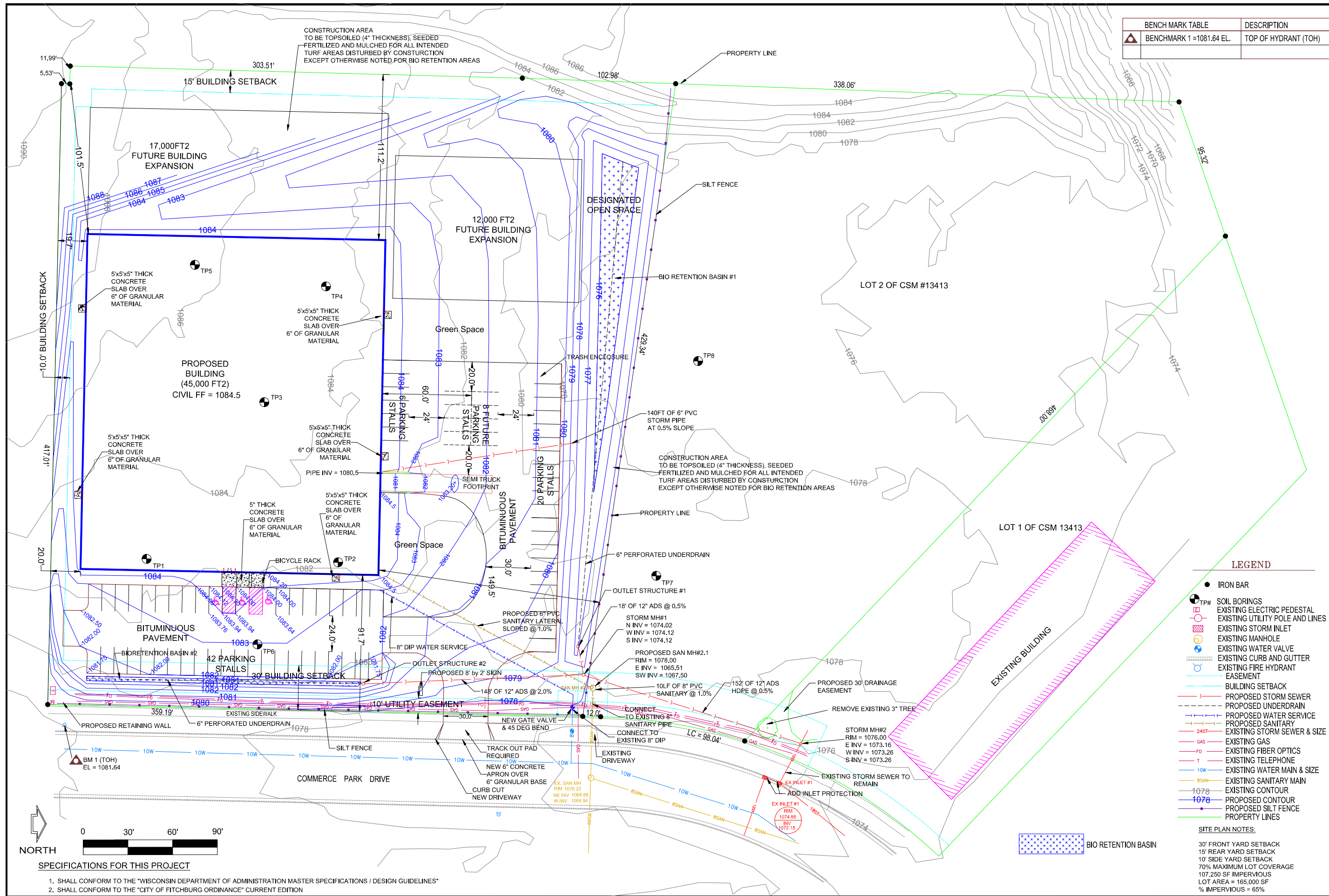
DESIGNED:

DRAFTED:

PROJECT #: 17-079

SHEET:

T-1.0



BENCHMARK TABLE	DESCRIPTION
▲ BENCHMARK 1 = 1081.64 EL.	TOP OF HYDRANT (TOH)

REVISIONS

NO.	DATE	DESCRIPTION

NOBLE KNIGHT GAMES
CITY OF FITCHBURG
SITE PLAN

ENGINEERING SURVEYING ENVIRONMENTAL
ENGINEERING CONSULTANTS, INC.
2800 C.T.H. Y - DODGEVILLE, WI 53533
(608) 985-3310

DATE: 10/23/2017
DESIGNED:
DRAFTED:
PROJECT #: 17-079
SHEET: C-1.0

LEGEND

- IRON BAR
- TP# SOIL BORINGS
- EXISTING ELECTRIC PEDESTAL
- EXISTING UTILITY POLE AND LINES
- EXISTING STORM INLET
- EXISTING MANHOLE
- EXISTING WATER VALVE
- EXISTING CURB AND GUTTER
- EXISTING FIRE HYDRANT
- EASEMENT
- BUILDING SETBACK
- PROPOSED STORM SEWER
- PROPOSED UNDERDRAIN
- PROPOSED WATER SERVICE
- PROPOSED SANITARY
- 24" EXISTING STORM SEWER & SIZE
- GAS EXISTING GAS
- FO EXISTING FIBER OPTICS
- T EXISTING TELEPHONE
- 10" EXISTING WATER MAIN & SIZE
- 8" SAN EXISTING SANITARY MAIN
- 1078 EXISTING CONTOUR
- 1078 PROPOSED CONTOUR
- PROPOSED SILT FENCE
- PROPERTY LINES

SITE PLAN NOTES:

- 30' FRONT YARD SETBACK
- 15' REAR YARD SETBACK
- 10' SIDE YARD SETBACK
- 70% MAXIMUM LOT COVERAGE
- 107,250 SF IMPERVIOUS
- LOT AREA = 165,000 SF
- % IMPERVIOUS = 65%

SPECIFICATIONS FOR THIS PROJECT

- SHALL CONFORM TO THE "WISCONSIN DEPARTMENT OF ADMINISTRATION MASTER SPECIFICATIONS / DESIGN GUIDELINES"
- SHALL CONFORM TO THE "CITY OF FITCHBURG ORDINANCE" CURRENT EDITION

SOIL TEST PIT LOG

#1	0-1.0' 1.0'-9.5'	DARK BROWN, TOPSOIL REDDISH BROWN SILT LOAM FILL (NO GROUNDWATER or BEDROCK ENCOUNTERED)
#2	0-1.0' 1.0'-10.0'	DARK BROWN, TOPSOIL REDDISH BROWN SILT LOAM FILL (NO GROUNDWATER or BEDROCK ENCOUNTERED)
#3	0-0.7' 0.7'-4.0' 4.0'-9.0' 9.0'	DARK BROWN, TOPSOIL BROWNISH SILT LOAM GRAYISH CLAY LOAM COBBLE STONES or BEDROCK (NO GROUNDWATER ENCOUNTERED) (ENCOUNTERED ASPHALT AND CONCRETE DEBRIS)
#4	0-0.7' 0.7'-5.0' 5.0'-9.5' 9.5'	DARK BROWN, TOPSOIL BROWNISH SILT LOAM LIGHT BROWN SANDY CLAY LOAM COBBLE STONES or BEDROCK (NO GROUNDWATER ENCOUNTERED) (ENCOUNTERED ASPHALT AND CONCRETE DEBRIS)
#5	0-1.0' 1.0'-7.0' 7.0'-9.5' 9.5'	DARK BROWN, TOPSOIL BROWNISH SILT LOAM LIGHT BROWN SANDY CLAY LOAM COBBLE STONES or BEDROCK (NO GROUNDWATER ENCOUNTERED) (ENCOUNTERED ASPHALT AND CONCRETE DEBRIS)
#6	0-1.0' 1.0'-9.5' 9.5'	DARK BROWN, TOPSOIL REDDISH BROWN SILT LOAM FILL (NO GROUNDWATER or BEDROCK ENCOUNTERED)
#7	0-1.0' 1.0'-9.5' 9.5'	DARK BROWN, TOPSOIL REDDISH BROWN SILT LOAM FILL COBBLE STONES or BEDROCK (NO GROUNDWATER ENCOUNTERED)
#8	0-1.0' 1.0'-9.5' 9.5'	DARK BROWN, TOPSOIL REDDISH BROWN SILT LOAM FILL COBBLE STONES or BEDROCK (NO GROUNDWATER ENCOUNTERED)

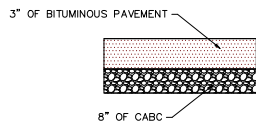
GEOTECHNICAL NOTES: THE SITE WAS GENERALLY FILLED IN WITH MISCELLANEOUS FILL MATERIAL INCLUDING ASPHALT AND CONCRETE. IT IS RECOMMENDED THAT THE BUILDING BE DESIGNED FOR THE UNCERTAINTY OF THE FILL BEARING CAPACITY. ADDITIONALLY, THE SUBGRADE SHALL BE TESTED IN ACCORDANCE WITH ASTM D6938 STANDARD TEST METHODS FOR IN-PLACE DENSITY AND WATER CONTENT OF SOIL AND SOIL-AGGREGATE IN PLACE BY NUCLEAR METHODS. THE SUBGRADE SHALL HAVE A MINIMUM MODIFIED PROCTOR COMPACTION OF 95%. THE NUMBER OF TESTS SHALL BE SUFFICIENT TO ASSURE ADEQUATE SOIL BEARING CAPACITY FOR THE BUILDING.

GENERAL NOTES:

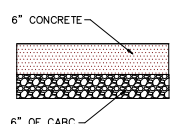
- PER CITY ORDINANCE, CONTRACTORS ARE NOT ALLOWED TO OPERATE CITY OWNED VALVES. THE CONTRACTOR SHALL CALL THE FITCHBURG UTILITY AT 608-270-4270 FOR OPERATION OF THESE VALVES.
- SAFE SAMPLE RESULTS NEED TO BE PROVIDED TO THE FITCHBURG UTILITY PRIOR TO PRESSURE TESTING THE PRIVATE WATER MAINS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THE EXISTING VALVES WILL HOLD THE PRESSURE TEST PRIOR TO CONNECTION. THE CITY IS NOT RESPONSIBLE FOR ANY COSTS INCURRED DUE TO THE CONTRACTOR NOT VERIFYING THAT THE EXISTING VALVE WILL HOLD THE PRESSURE TEST PRIOR TO CONNECTION. IF A NEW VALVE IS REQUIRED, THE CONTRACTOR WILL BE REQUIRED TO INSTALL ONE AT THEIR EXPENSE AT THE POINT OF CONNECTION.
- OPEN PICK HOLES ON SANITARY MANHOLES ARE PROHIBITED.
- THE WORK WITHIN WATERMAIN EASEMENT FROM THE CITY'S MAIN UP TO THE PROPOSED VALVES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF FITCHBURG STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. THE FITCHBURG PUBLIC WORKS DEPARTMENT SHALL BE NOTIFIED 48 HOURS PRIOR TO THE START OF THIS WORK FOR INSPECTION.

GENERAL NOTES:

- TOPOGRAPHIC INFORMATION WAS FROM DANE COUNTY MAPS
- NOT ALL TREES ARE NECESSARILY SHOWN HEREON
- SANITARY INVERT INFORMATION FROM C-16-14 AND C-16-5 RECORD DRAWINGS (PROVIDED BY CITY OF FITCHBURG), UNLESS OTHERWISE NOTED - TO BE FIELD VERIFIED BY CONTRACTOR
- HORIZONTAL WATER MAIN PIPE LOCATION INFORMATION FROM C-16-4 AND C-16-5 RECORD DRAWINGS (PROVIDED BY CITY OF FITCHBURG).

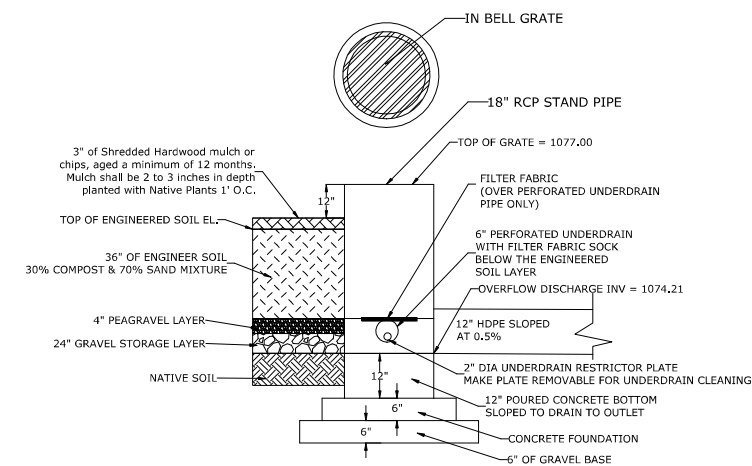


NOTE: COMPACT TO 95% MODIFIED PROCTOR
BITUMINOUS SURFACE SECTION



NOTE: COMPACT TO 95% MODIFIED PROCTOR
CONCRETE SECTION

BIORETENTION & OUTLET STRUCTURE #1 DETAIL



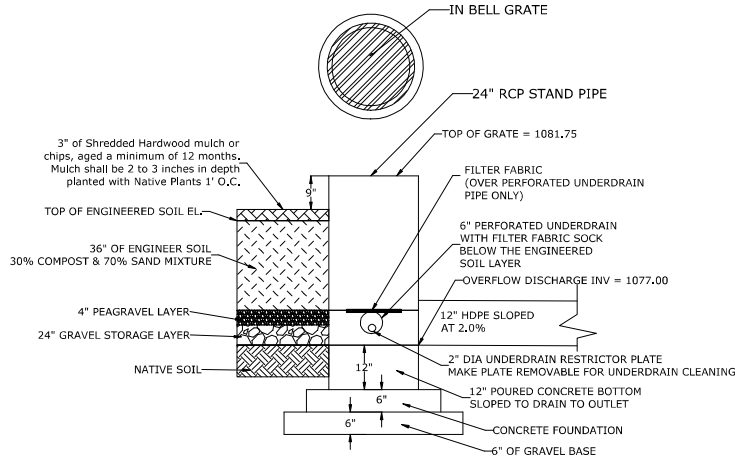
SPECIFICATIONS

SAND TO MEET ASTM C33, USDA Coarse Sand (0.02-0.04 inches), OR WISDOT SPECIFICATIONS 501.2.5.3.4 (FINE AGGREGATE CONCRETE SAND) 2005 edition

COMPOST component shall meet the requirements of Wisconsin Department of Natural Resources Specification S100, Compost

GRAVEL SHALL MEET THE COARSE AGGREGATE #2 of the Wisconsin DOT specifications, section 501.2.5, 2003 edition

BIORETENTION & OUTLET STRUCTURE #2 DETAIL



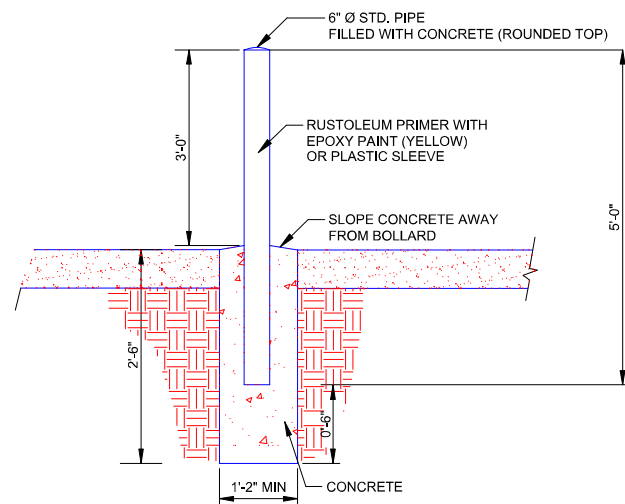
SPECIFICATIONS

SAND TO MEET ASTM C33, USDA Coarse Sand (0.02-0.04 inches), OR WISDOT SPECIFICATIONS 501.2.5.3.4 (FINE AGGREGATE CONCRETE SAND) 2005 edition

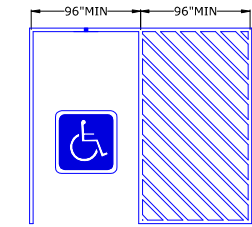
COMPOST component shall meet the requirements of Wisconsin Department of Natural Resources Specification S100, Compost

GRAVEL SHALL MEET THE COARSE AGGREGATE #2 of the Wisconsin DOT specifications, section 501.2.5, 2003 edition

BIORETENTION & OUTLET STRUCTURE #2 DETAIL



BOLLARD DETAIL
NOT TO SCALE

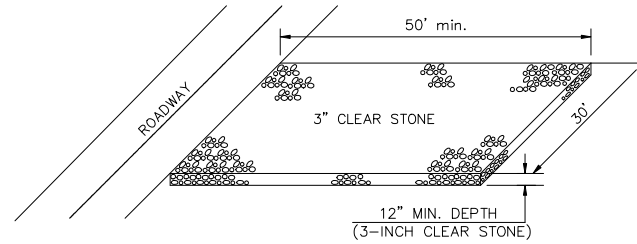


TYPICAL ACCESSIBLE PARKING STALLS
NOT TO SCALE
BY OWNER

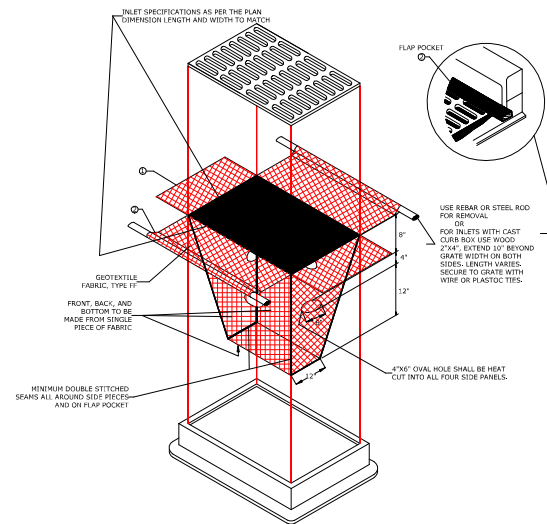


ACCESSIBLE PARKING SIGN
NOT TO SCALE
BY CONTRACTOR

ACCESSIBLE PARKING STALL
NOT TO SCALE



TRACKING PAD
NOT TO SCALE



INLET PROTECTION TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE 2)

GENERAL NOTES:

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER. MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT OF TRANSPORTATION'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

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

1. FRONT SIDE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10' AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

2. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2"x4".

TYPE D

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

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

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3".

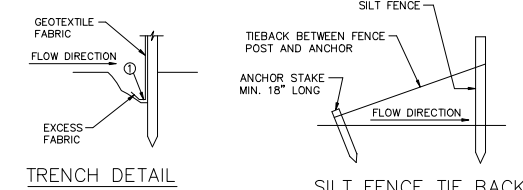
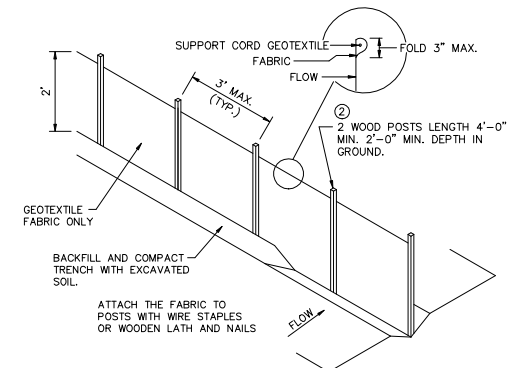
WHERE NECESSARY, THE CONTRACTOR SHALL CHOP THE BAG USING PLASTIC ZIP TIES TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MINIMUM OF 4" FROM THE BOTTOM OF THE BAG.

CONSTRUCTION TIME SCHEDULE

LAND DISTURBANCE	4/1/2018
EROSION CONTROL INSTALLATION	PRIOR TO LAND DISTURBANCE
SEED, MULCH, EMAT AND FERTILIZE	6/1/18
BIO RETENTIONS COMPLETED	7/1/2018
UNDERGROUND UTILITIES INSTALLED	5/1/2018
PAVEMENT PLACEMENT	9/1/2018
PROJECT COMPLETION	9/15/18

EROSION CONTROL NOTES

- CONTRACTOR SHALL HAVE ALL EROSION CONTROL MEASUREMENTS IN PLACE AND APPROVED BY THE ENGINEER PRIOR TO COMMENCEMENT OF EXCAVATION ACTIVITIES.
- ALL SILT FENCES SHALL BE INSPECTED DAILY. CLEANING, ADJUSTING AND REPLACING EROSION MEASURES SHALL BE DONE AS NECESSARY THROUGHOUT CONSTRUCTION. ALL EROSION MEASURES SHALL BE IN WORKING CONDITION AT THE END OF EACH WORK DAY.
- EROSION CONTROL MEASURES SHALL BE INSTALLED PER THE DETAILS OR AS DIRECTED BY THE ENGINEER IN LOCATIONS DESIGNATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- SEDIMENT FROM OVERLAND FLOW SHALL BE PREVENTED FROM LEAVING THE WORKSITE BY INSTALLING SILT FENCING PARALLEL TO THE CONTOURS LOCATED DOWNHILL FROM THE WORK AREA.
- EXISTING VEGETATION SHALL BE REMOVED ONLY AS NECESSARY TO PERFORM CONSTRUCTION ACTIVITIES. CLEARING OF AREAS THAT ARE CLEARLY OUTSIDE THE LIMITS OF CONSTRUCTION SHALL NOT BE PERMITTED.
- ALL DISTURBED AREAS SHALL BE RESTORED AND VEGETATED AS SOON AS POSSIBLE AFTER DISTURBANCE. IN GENERAL, STABILIZATION SHOULD BE COMPLETED WITHIN 30 DAYS OF THE INITIAL DISTURBANCE OR WITHIN 7 DAYS OF FINAL GRADING AND TOPSOILING.
- MAINTAIN ALL EROSION CONTROL MEASURES UNTIL ALL DISTURBANCE IS COMPLETED. DO NOT REMOVE EROSION CONTROL MEASURES UNTIL AT LEAST 70% OF THE AREA SERVED HAS ESTABLISHED A UNIFORM, VIGOROUS VEGETATED COVER.
- STONE MATS SHALL BE INSTALLED AT ALL CONSTRUCTION SITE EXITS TO PREVENT TRACKING OF SOIL ONTO PUBLIC ROADWAYS. ANY TRACKED SOIL SHALL BE REMOVED BY MECHANICAL STREET CLEANING AT THE END OF EACH DAY. ADD NEW STONE TO THE TOP IF OLD STONE BECOMES DIRT COVERED.
- REFER TO THE DNR TECHNICAL STANDARDS AVAILABLE AT: <http://www.dnr.state.wis.us/org/water/wm/nps/stormwater/techstds.htm>
- CONTRACTOR SHALL WATER NEWLY SEEDED AREAS IF 7 DAYS PASS WITHOUT A RAINFALL DURING THE FIRST SIX WEEKS AFTER INITIAL STABILIZATION.
- MULCHING OF DISTURBED AREAS SHALL BE APPLIED AT A RATE OF 2 TONS PER ACRE. MULCH SHALL BE ANCHORED INTO SOIL BY DISCING.
- A MINIMUM OF ONE EROSION CONTROL INSPECTION SHALL BE PERFORMED EACH WEEK, AND ONE INSPECTION AFTER ALL RAINFALL EVENTS OF 0.5" OR GREATER. ALL REPAIRS AND MODIFICATIONS SHALL BE COMPLETED WITHIN 24 HOURS OF THE INSPECTION.
- INLET BOXES SHALL BE PROTECTED FROM RUNOFF DURING CONSTRUCTION BY PROTECTING WITH WISDOT TYPE D INLET PROTECTION FOR ALL INLETS OVER 30" IN DEPTH.
- TYPE R OR HR GEOTEXTILE IS REQUIRED UNDER ALL PERMANENT STONE AREAS, INCLUDING CULVERT OUTLET PROTECTION AND POND SIDESLOPE PROTECTION AREAS. TYPE SAS GEOTEXTILE IS REQUIRED UNDER ALL TEMPORARY STONE AREAS.
- ALL DETENTION PONDS SHALL BE CLEANED OF ALL ACCUMULATED SEDIMENT AFTER IMPROVEMENTS HAVE BEEN INSTALLED AND THE SITE HAS BEEN STABILIZED WITH THE ESTABLISHMENT OF VEGETATION OVER 90% OF THE SITE.



TRENCH DETAIL
NOTE: 8' SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE TIE BACK
(WHEN REQUIRED BY ENGINEER)

GENERAL NOTES

- TRENCH SHALL BE MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- WOOD POSTS SHALL BE A MINIMUM SIZE OF 1 1/8" x 1 1/8" OF OAK OR HICKORY.

SILT FENCE DETAIL

NOTE: ADDITIONAL POST DEPTH OR THE BACKS MAY BE REQUIRED IN UNSTABLE SOILS.
NOTE: AT LOCATIONS AS DIRECTED BY ENGINEER

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN
CALL DIGGERS HOTLINE
1-800-242-8311
TOLL FREE
Fax A Locate 1-800-338-3860
TDD (For Hearing Impaired) 1-800-542-2289
WISCONSIN STATUTE 182.0175 (1974)
REQUIRES MINIMUM OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.

REVISIONS

NOBLE KNIGHT GAMES
CITY OF FITCHBURG
SITE CONSTRUCTION DETAILS

ENGINEERING SURVEYING ENVIRONMENTAL
(608) 835-3310

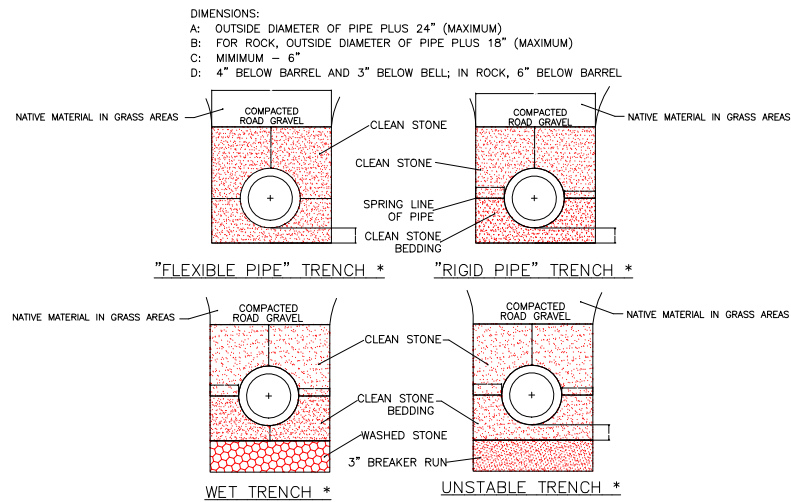
ENGINEERING CONSULTANTS, INC.
2600 C.T.H. Y - DODGEVILLE, WI 53533

DATE: Oct. 23, 2017

CHECKED: PROJECT #: 17-079

SHEET NO.

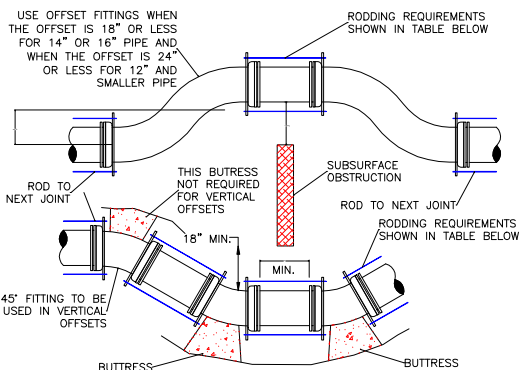
C-2.0



DIMENSIONS:
 A: OUTSIDE DIAMETER OF PIPE PLUS 24" (MAXIMUM)
 B: FOR ROCK, OUTSIDE DIAMETER OF PIPE PLUS 18" (MAXIMUM)
 C: MINIMUM - 6"
 D: 4" BELOW BARREL AND 3" BELOW BELL; IN ROCK, 6" BELOW BARREL

* "RIGID PIPE" INCLUDES REINFORCED CONCRETE PIPE AND DUCTILE IRON PIPE ONLY. ALL OTHER PIPE MATERIALS SHALL BE CONSIDERED "FLEXIBLE PIPE". THE WET TRENCH AND UNSTABLE TRENCH DETAILS ARE DRAWN SHOWING A "RIGID PIPE" TRENCH INSTALLATION.

TRENCH WIDTH AND BEDDING DETAILS

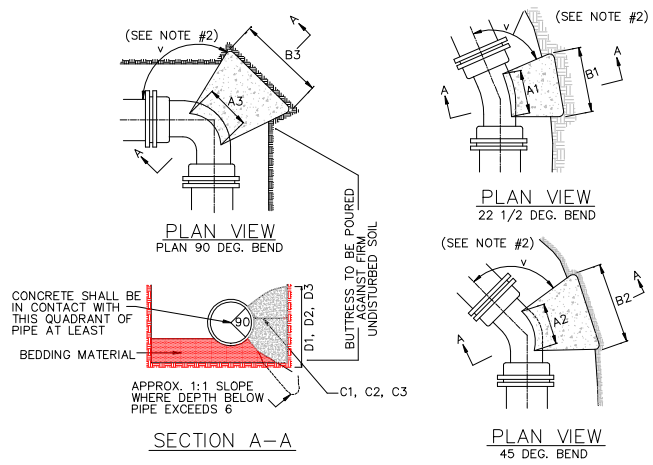


NOMINAL PIPE SIZE	RODS NO.	RODS DIA.	STRAP SIZE	BOLT DIA.	WASHER SIZE
6	3	?	1/2 x 2	?	1/2 x 3 x 5
8	4	?	1/2 x 2	?	1/2 x 3 x 5
10	4	?	1/2 x 2 1/2	1	1/2 x 3 x 5
12	4	?	1/2 x 2 1/2	1	1/2 x 3 x 5
14	4	?	1/2 x 2 1/2	1	1/2 x 3 x 5

ALL DIMENSIONS IN THIS TABLE ARE IN INCHES

- NOTES:
- TIE RODS, BOLTS, NUTS, BANDS AND WASHERS TO BE FURNISHED AND ASSEMBLED BY THE CONTRACTOR.
 - ALL STEEL MATERIAL TO BE THOROUGHLY COATED WITH KOPPERS NO. 50 BITUMASTIC.
 - OFFSET FITTINGS REQUIRE CONTINUOUS RODDING IN ALL POSITIONS.
 - VERTICAL OFFSETS SHALL NOT CREATE A HIGH POINT IN THE WATER MAIN. VERTICAL OFFSETS REQUIRE THE SAME RODDING AND BUTTRUSSING AS SHOWN ABOVE.
 - MEGALUG RESTRAINTS MAY BE USED IN LIEU OF RODDING.

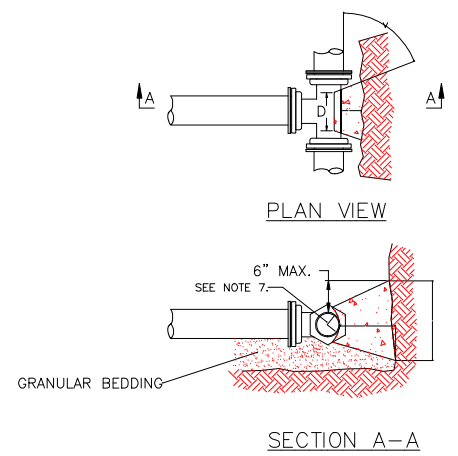
OFFSET AND RODDING DETAILS



PIPE SIZE	22 1/2° BENDS			45° BENDS			90° BENDS		
	B1	D1	B2	D2	B3	D3	B3	D3	
6"	1'-0"	1'-0"	1'-0"	1'-0"	1'-4"	1'-2"	1'-4"	1'-2"	
8"	1'-0"	1'-0"	1'-4"	1'-2"	1'-10"	1'-6"	1'-10"	1'-6"	
10"	1'-2"	1'-2"	1'-7"	1'-6"	2'-4"	1'-10"	2'-4"	1'-10"	
12"	1'-4"	1'-4"	1'-10"	1'-10"	2'-9"	2'-3"	2'-9"	2'-3"	
16"	1'-10"	1'-8"	2'-6"	2'-4"	3'-10"	2'-10"	3'-10"	2'-10"	
20"	2'-4"	2'-0"	3'-3"	2'-10"	6'-0"	3'-4"	6'-0"	3'-4"	
24"	2'-10"	2'-4"	4'-0"	3'-3"	6'-4"	3'-10"	6'-4"	3'-10"	
30"	3'-6"	3'-0"	8'-4"	3'-10"	8'-0"	4'-8"	8'-0"	4'-8"	

- NOTES:
- DIMENSIONS IN TABLE ARE BASED ON A WATER PRESSURE OF 150 PSI, AND AN EARTH RESISTANCE OF 2 TONS PER SQ. FT.
 - DIMENSION C1, C2, C3, SHOULD BE LARGE ENOUGH TO MAKE ANGLE EQUAL OR LARGER THAN 45°.
 - DIMENSION A1, A2, A3, SHOULD BE AS LARGE AS POSSIBLE WITHOUT INTERFERING WITH MECHANICAL JOINTS.
 - BUTTRUSS TO BE POURED AGAINST FIRM UNDISTURBED SOIL, OR DISTURBED SOIL COMPACTED TO 95% OF MODIFIED PROCTOR DENSITY, ASTM D1557.
 - ALL BUTTRUSSED FITTINGS SHALL BE WRAPPED IN POLYETHYLENE.
 - CONCRETE SHALL HAVE A MINIMUM 7-DAY COMPRESSIVE STRENGTH OF 2000 PSI.

BUTTRUSS FOR BENDS



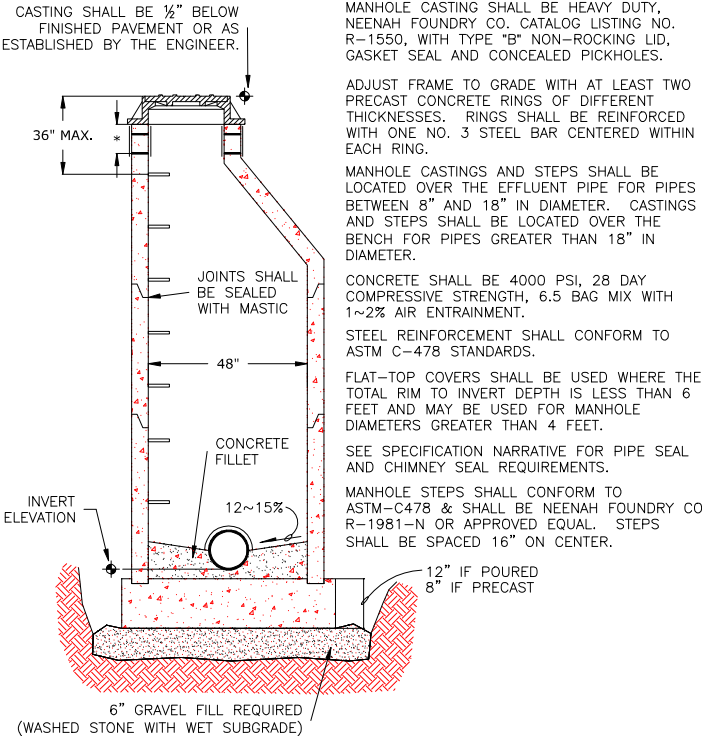
- NOTES:
- DIMENSIONS IN TABLE ARE BASED ON A WATER PRESSURE OF 150 PSI, AND AN EARTH RESISTANCE OF 2 TONS PER SQ. FT.
 - DIMENSION 'C' SHOULD BE LARGE ENOUGH TO MAKE AN ANGLE EQUAL TO 45°.
 - DIMENSION 'D' SHOULD BE AS LARGE AS POSSIBLE WITHOUT INTERFERING WITH MECHANICAL JOINTS.
 - BUTTRUSS TO BE POURED AGAINST FIRM UNDISTURBED SOIL, OR DISTURBED SOIL COMPACTED TO 95% OF MODIFIED PROCTOR DENSITY, ASTM D1557.
 - ALL BUTTRUSSED FITTINGS SHALL BE WRAPPED IN POLYETHYLENE.
 - CONCRETE SHALL HAVE A MINIMUM 7-DAY COMPRESSIVE STRENGTH OF 2000 PSI.
 - CONCRETE SHOULD BEAR ON THIS QUADRANT OF PIPE AT A MINIMUM.

PIPE SIZE	BUTTRUSS DIMENSIONS			
	A	B	C	D
6"	1'-3"	1'-0"		
8"	1'-6"	1'-4"		
10"	1'-10"	1'-8"		
12"	2'-3"	2'-0"		
16"	3'-2"	2'-6"		
20"	4'-0"	3'-0"	SEE NOTE NO. 2	SEE NOTE NO. 3
24"	5'-3"	3'-4"	SEE NOTE NO. 2	SEE NOTE NO. 3

BUTTRUSS FOR TEES

WATER MAIN CONSTRUCTION NOTES:

- Work shall conform to the "Standard Specifications for Sewer and Water Construction in Wisconsin", Sixth Edition, dated December 22, 2003, with Latest Addendum.
- Work shall conform to the "Standard Specifications for Highway and Structure Construction" by the State of Wisconsin Dept. of Transportation, Latest Edition.
- Water main and services shall have a minimum cover of 7.0 feet. In areas where less cover, use 2" rigid insulation over the clean stone in the trench.
- At intersections with sanitary sewers the vertical separation from exterior of pipes shall be 6" when water main is above the sanitary sewer and 18" when the water main is below the sanitary sewer. In crossings under storm sewer, use 2" rigid insulation over the clean stone in the trench.
- The minimum horizontal separation between water main and storm or sanitary sewer shall be 8'.
- Contractor shall be responsible for all utility locations.
- Water main pipe shall meet the requirements of AWWA C151 Ductile Iron Pipe Class 52, Cement Lined in accordance with AWWA C104 with bituminous outside coating.
- Gaskets shall be rubber gasket.



MANHOLE CASTING SHALL BE HEAVY DUTY, NEENAH FOUNDRY CO. CATALOG LISTING NO. R-1550, WITH TYPE "B" NON-ROCKING LID, GASKET SEAL AND CONCEALED PICKHOLES.

ADJUST FRAME TO GRADE WITH AT LEAST TWO PRECAST CONCRETE RINGS OF DIFFERENT THICKNESSES. RINGS SHALL BE REINFORCED WITH ONE NO. 3 STEEL BAR CENTERED WITHIN EACH RING.

MANHOLE CASTINGS AND STEPS SHALL BE LOCATED OVER THE EFFLUENT PIPE FOR PIPES BETWEEN 8" AND 18" IN DIAMETER. CASTINGS AND STEPS SHALL BE LOCATED OVER THE BENCH FOR PIPES GREATER THAN 18" IN DIAMETER.

CONCRETE SHALL BE 4000 PSI, 28 DAY COMPRESSIVE STRENGTH, 6.5 BAG MIX WITH 1~2% AIR ENTRAINMENT.

STEEL REINFORCEMENT SHALL CONFORM TO ASTM C-478 STANDARDS.

FLAT-TOP COVERS SHALL BE USED WHERE THE TOTAL RIM TO INVERT DEPTH IS LESS THAN 6 FEET AND MAY BE USED FOR MANHOLE DIAMETERS GREATER THAN 4 FEET.

SEE SPECIFICATION NARRATIVE FOR PIPE SEAL AND CHIMNEY SEAL REQUIREMENTS.

MANHOLE STEPS SHALL CONFORM TO ASTM-C478 & SHALL BE NEENAH FOUNDRY CO. R-1981-N OR APPROVED EQUAL. STEPS SHALL BE SPACED 16" ON CENTER.

CONCRETE SHALL BE 4000 PSI, 28 DAY COMPRESSIVE STRENGTH, 6.5 BAG MIX WITH 1~2% AIR ENTRAINMENT.

STEEL REINFORCEMENT SHALL CONFORM TO ASTM C-478 STANDARDS.

FLAT-TOP COVERS SHALL BE USED WHERE THE TOTAL RIM TO INVERT DEPTH IS LESS THAN 6 FEET AND MAY BE USED FOR MANHOLE DIAMETERS GREATER THAN 4 FEET.

SEE SPECIFICATION NARRATIVE FOR PIPE SEAL AND CHIMNEY SEAL REQUIREMENTS.

MANHOLE STEPS SHALL CONFORM TO ASTM-C478 & SHALL BE NEENAH FOUNDRY CO. R-1981-N OR APPROVED EQUAL. STEPS SHALL BE SPACED 16" ON CENTER.

* A MINIMUM OF 3" TO A MAXIMUM OF 9" OF ADJUSTING RINGS SHALL BE USED TO ADJUST THE MANHOLE CASTING TO THE FINISHED GRADE. ALL RINGS SHALL BE SEALED TOGETHER USING MASTIC AND ALL JOINTS SHALL BE BACK PLASTERED INSIDE AND OUT WITH CEMENT MORTAR.

SAN & ST MH DETAIL
 DETAIL 02601-A

REVISIONS

NO.	DATE	DESCRIPTION

NOBLE KNIGHT GAMES
 CITY OF FITCHBURG
 SITE CONSTRUCTION DETAILS

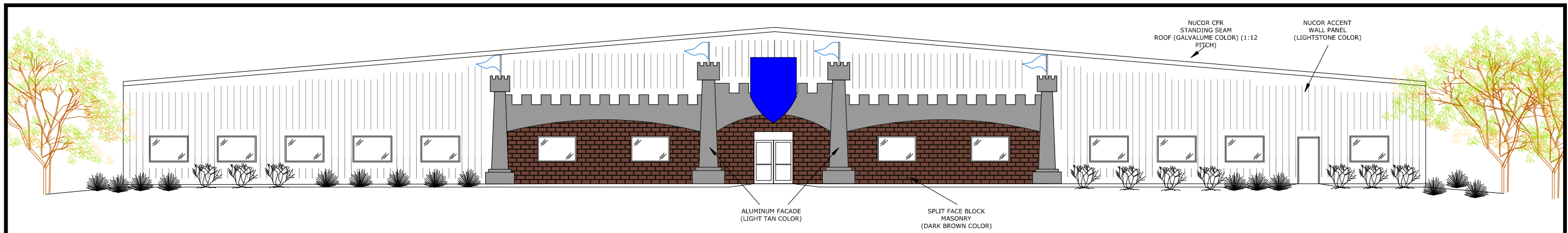
ENGINEERING SURVEYING ENVIRONMENTAL
 (608) 935-8310
 KD ENGINEERING CONSULTANTS, INC.
 2600 C.T.H. Y - DODGEVILLE, WI 53533

DATE: Oct. 23, 2017

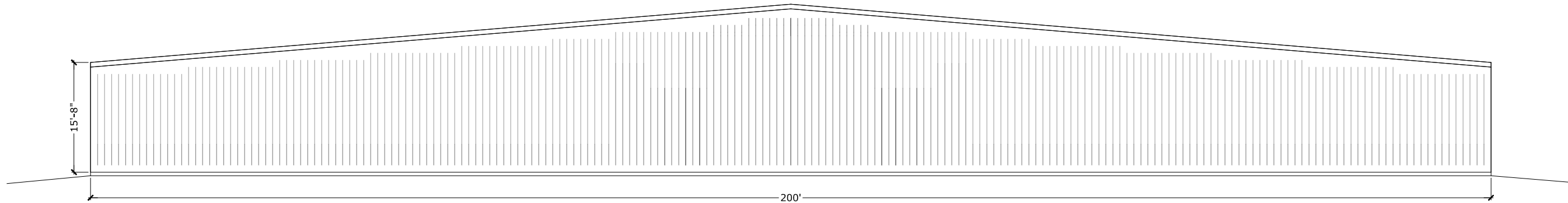
DESIGNED:

DRAFTED:
 PROJECT #:
 17-079

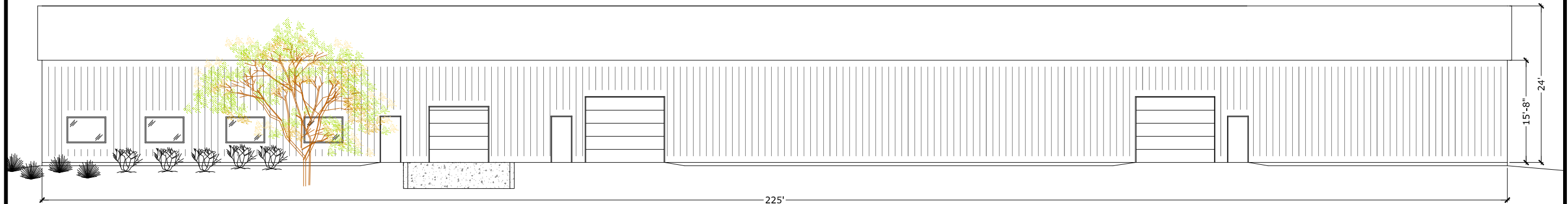
SHEET NO:



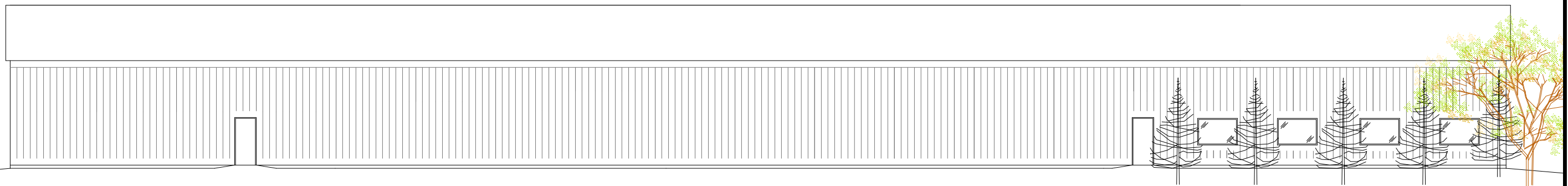
EAST ELEVATION
 22x34 SCALE: 1/8" = 1'-0"
 11x17 SCALE: 1/16" = 1'-0"



WEST ELEVATION
 22x34 SCALE: 1/8" = 1'-0"
 11x17 SCALE: 1/16" = 1'-0"



NORTH ELEVATION
 22x34 SCALE: 1/8" = 1'-0"
 11x17 SCALE: 1/16" = 1'-0"



SOUTH ELEVATION
 22x34 SCALE: 1/8" = 1'-0"
 11x17 SCALE: 1/16" = 1'-0"

REVISIONS

NOBLE KNIGHT GAMES
 FITCHBURG, WI
 ELEVATION VIEWS

ENGINEERING
 SURVEYING
 ENVIRONMENTAL
 (608) 935-3310

ENGINEERING
 CONSULTANTS, INC.
 2800 C.T.H. Y - DODGEVILLE, WI 53533

DATE: 10/24/17

DESIGNED:

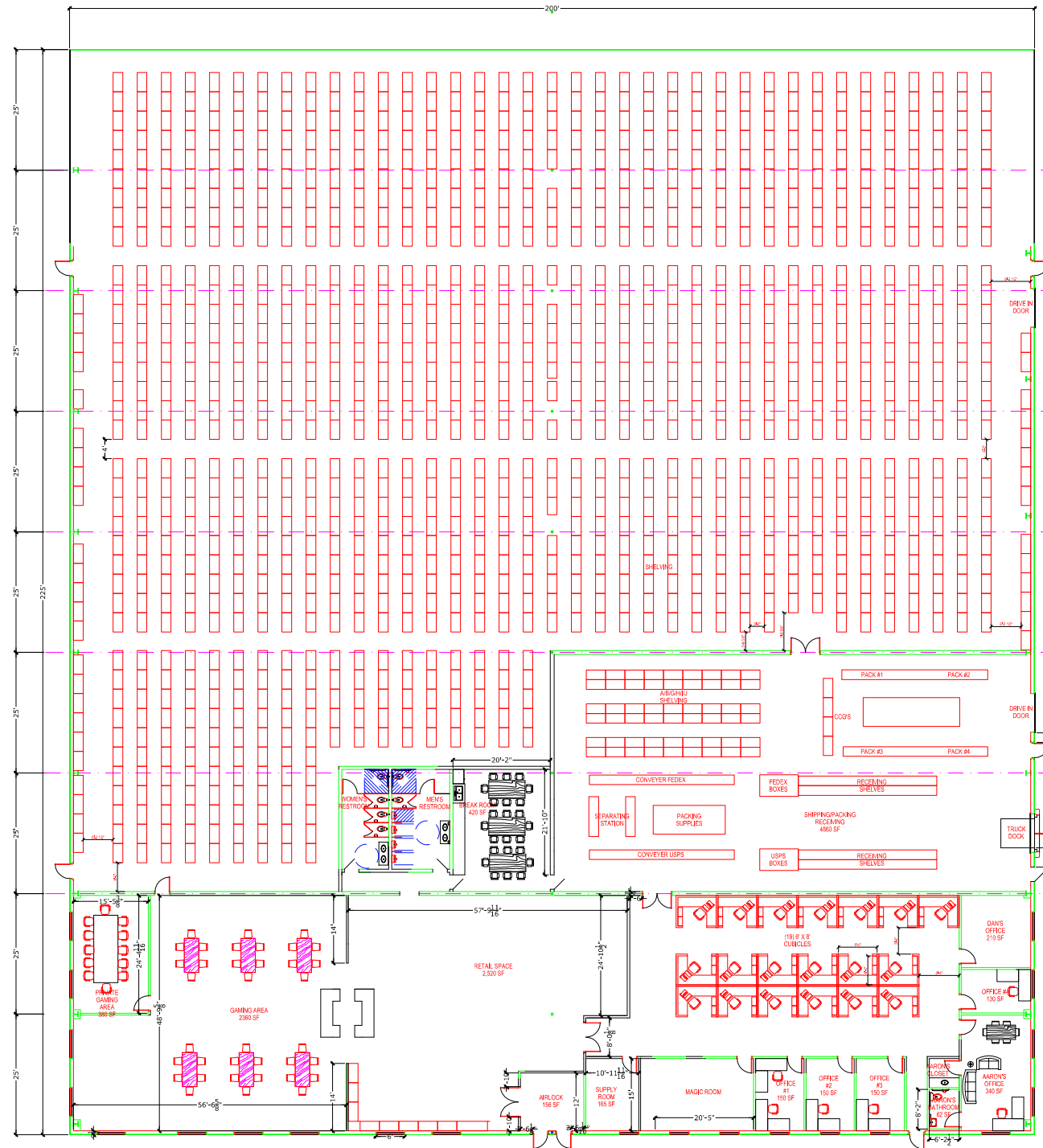
DRAFTED:


PROJECT #:

17-079

SHEET:

A-1.0




FLOOR PLAN
 22x34 SCALE: 1/16" = 1'-0"
 11x17 SCALE: 1/32" = 1'-0"

REVISIONS

NOBLE KNIGHT GAMES
 FITCHBURG, WI
 FLOOR PLAN

ENGINEERING
 SURVEYING
 ENVIRONMENTAL
 (608) 935-3310


 ENGINEERING
 CONSULTANTS, INC.
 2800 C.T.H. Y - DODGEVILLE, WI 53533

DATE: 10/24/17

DESIGNED:

DRAFTED:

PROJECT #:

17-079

SHEET:

A-2.0



Specification grade area lights available with IES Type IV distribution. Suited for mounting on the sides of buildings and walls, and for illuminating the perimeter of parking areas. Patent pending management system. 5 Year Warranty.

Color: Bronze

Weight: 32.0 lbs

Project:

Type:

Prepared By:

Date:

Driver Info

Type:	Constant Current
120V:	1.31A
208V:	0.80A
240V:	0.69A
277V:	0.60A
Input Watts:	155W
Efficiency:	96%

LED Info

Watts:	150W
Color Temp:	5000K
Color Accuracy:	71 CRI
L70 Lifespan:	100000
Lumens:	18464
Efficacy:	119 LPW

Technical Specifications

Listings

UL Listing:

Suitable for wet locations.

DLC Listed:

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

DLC Product Code: P0000175F

IESNA LM-79 & LM-80 Testing:

RAB LED luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80, and have been received the Department of Energy "Lighting Facts" label.

Dark Sky Approved:

The International Dark Sky Association has approved this product as a full cutoff, fully shielded luminaire.

LED Characteristics

Lifespan:

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

LEDs:

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

Color Consistency:

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

Color Stability:

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

Color Uniformity:

RAB's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2015.

Replacement:

Replaces 400W Metal Halide.

Construction

IES Classification:

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

Effective Projected Area:

EPA = 0.75

Maximum Ambient Temperature:

Suitable for use in 40°C (104°F) ambient temperatures

Cold Weather Starting:

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

Thermal Management:

Superior thermal management with external "Air-Flow" fins.

Housing:

Die-cast aluminum housing, lens frame and mounting arm.

IP Rating:

Ingress Protection rating of IP66 for dust and water

Mounting:

Universal mounting arm compatible for hole spacing patterns from 1" to 5 1/2" center to center. Round Pole Adaptor plate included as a standard. Easy slide and lock to mount fixture with ease.

Reflector:

Specular vacuum-metallized polycarbonate

Gaskets:

High-temperature silicone gaskets

Finish:

Formulated for high-durability and long lasting color.

Green Technology:

Mercury and UV free. RoHS compliant components. Polyester powder coat finish formulated without the use of VOC or toxic heavy metals.

For use on LEED Buildings:

IDA Dark Sky Approval means that this fixture can be used to achieve LEED Credits for Light Pollution Reduction.

Electrical

Drivers:

Two Drivers, Constant Current, Class 2, 2000mA, 100-277V, 50-60Hz, Power Factor 99%

THD:

4.7% at 120V, 13.3% at 277V

Surge Protection:

4kV

Technical Specifications (continued)

Other

California Title 24:

See ALED4T150/D10, ALED4T150/BL, ALED4T150/PCS, ALED4T150/PCS2, or ALED4T150/PCT for a 2013 California Title 24 compliant product. Any additional component requirements will be listed in the Title 24 section under technical specifications on the product page.

Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish.

Buy American Act Compliance:

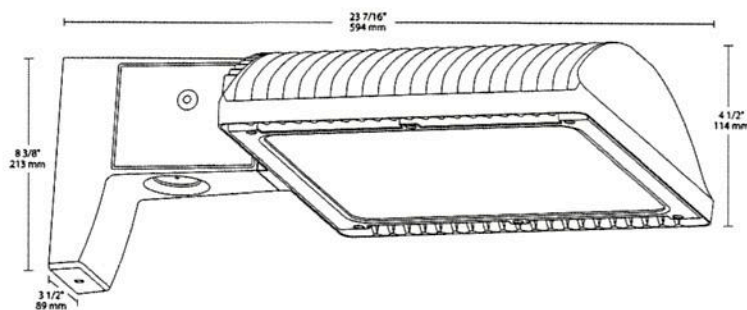
RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

Optical

BUG Rating:

B1 U0 G3

Dimensions

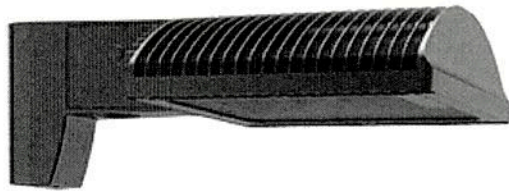


Features

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

Ordering Matrix

Family	Distribution	Wattage	Mounting	Color Temp	Finish	Voltage	Dimming	Control Options
ALED	4T	150						
	2T = Type II	50 = 50W	Blank =	Blank =	Blank =	Blank = 120-277V	Blank =	Blank = No Option
	3T = Type III	78 = 78W	Arm	5000K (Cool)	Bronze	/480 = 480V (not available for 150W)	Standard	/PCS = 120V Swivel Photocell
	4T = Type IV	105 = 105W	SF = Slipfitter	N = 4000K (Neutral)	RG = Roadway Gray		/D10 = 0-10V Dimming	/PCS2 = 277V Swivel Photocell
		125 = 125W		Y = 3000K (Warm)	W = White		/BL = Bi-Level	/PCT = 120-277V Twistlock Photocell (not available for Slipfitter mounting)
		150 = 150W						/PCT4 = 480V Twistlock Photocell (not available for Slipfitter mounting)
								/WS2 = Multi-Level Motion Sensor(50W, 78W and 105W only)
								/WS4 = Multi-Level Motion Sensor(125W and 150W only)
								/LC = Lightcloud Control



Specification grade area lights available with IES Type III distribution. For use for roadway, general parking and other area lighting applications where a larger pool of lighting is required. Patent pending thermal management system. 5 Year Warranty.

Color: Bronze

Weight: 30.4 lbs

Project:

Type:

Prepared By:

Date:

Driver Info

Type:	Constant Current
120V:	1.31A
208V:	0.80A
240V:	0.69A
277V:	0.60A
Input Watts:	155W
Efficiency:	97%

LED Info

Watts:	150W
Color Temp:	5000K
Color Accuracy:	71 CRI
L70 Lifespan:	100000
Lumens:	16839
Efficacy:	108 LPW

Technical Specifications

Listings

UL Listing:

Suitable for wet locations.

DLC Listed:

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

DLC Product Code: P0000175C

IESNA LM-79 & LM-80 Testing:

RAB LED luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80, and have been received the Department of Energy "Lighting Facts" label.

Dark Sky Approved:

The International Dark Sky Association has approved this product as a full cutoff, fully shielded luminaire.

LED Characteristics

Lifespan:

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

LEDs:

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

Color Consistency:

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

Color Stability:

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

Color Uniformity:

RAB's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2015.

Replacement:

Replaces 400W Metal Halide.

Construction

IES Classification:

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

Effective Projected Area:

EPA = 0.75

Maximum Ambient Temperature:

Suitable for use in 40°C (104°F) ambient temperatures

Cold Weather Starting:

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

Thermal Management:

Superior thermal management with external "Air-Flow" fins.

Housing:

Die-cast aluminum housing, lens frame and mounting arm.

IP Rating:

Ingress Protection rating of IP66 for dust and water

Mounting:

Universal mounting arm compatible for hole spacing patterns from 1" to 5 1/2" center to center. Round Pole Adaptor plate included as a standard. Easy slide and lock to mount fixture with ease.

Reflector:

Specular vacuum-metallized polycarbonate

Gaskets:

High-temperature silicone gaskets

Finish:

Formulated for high-durability and long lasting color.

Green Technology:

Mercury and UV free. RoHS compliant components. Polyester powder coat finish formulated without the use of VOC or toxic heavy metals.

For use on LEED Buildings:

IDA Dark Sky Approval means that this fixture can be used to achieve LEED Credits for Light Pollution Reduction.

Electrical

Drivers:

Two Drivers, Constant Current, Class 2, 2000mA, 100-277V, 50-60Hz, Power Factor 99%

THD:

6% at 120V, 11.3% at 277V

Surge Protection:

4kV

Technical Specifications (continued)

Other

California Title 24:

See ALED3T150/D10, ALED3T150/BL, ALED3T150/PCS, ALED3T150/PCS2, or ALED3T150/PCT for a 2013 California Title 24 compliant product. Any additional component requirements will be listed in the Title 24 section under technical specifications on the product page.

Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish.

Buy American Act Compliance:

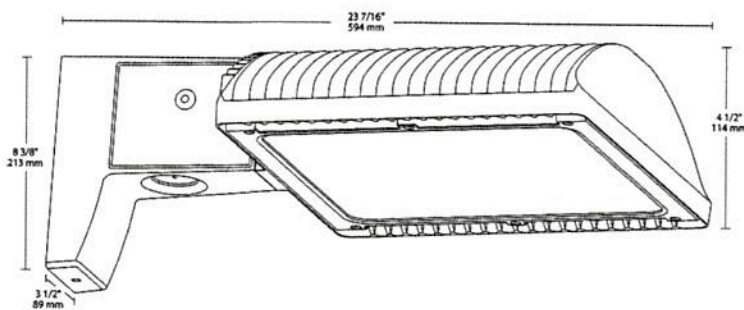
RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

Optical

BUG Rating:

B1 U0 G2

Dimensions

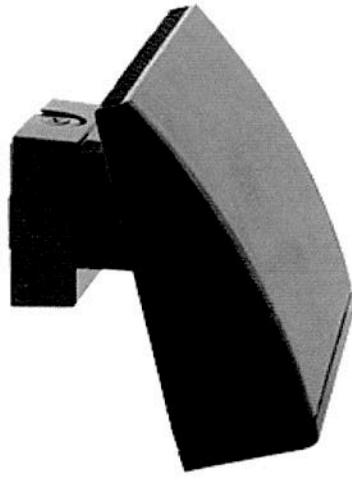


Features

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

Ordering Matrix

Family	Distribution	Wattage	Mounting	Color Temp	Finish	Voltage	Dimming	Control Options
ALED	3T	150						
	2T = Type II	50 = 50W	Blank = Arm	Blank = 5000K (Cool)	Blank = Bronze	Blank = 120-277V	Blank = Standard	Blank = No Option
	3T = Type III	78 = 78W	SF = Slipfitter	N = 4000K (Neutral)	RG = Roadway Gray	/480 = 480V (not available for 150W)	/D10 = 0-10V Dimming	/PCS = 120V Swivel Photocell
	4T = Type IV	105 = 105W		Y = 3000K (Warm)	W = White		/BL = Bi-Level	/PCS2 = 277V Swivel Photocell
		125 = 125W						/PCT = 120-277V Twistlock Photocell (not available for Slipfitter mounting)
		150 = 150W						/PCT4 = 480V Twistlock Photocell (not available for Slipfitter mounting)
								/WS2 = Multi-Level Motion Sensor(50W, 78W and 105W only)
								/WS4 = Multi-Level Motion Sensor(125W and 150W only)
								/LC = Lightcloud Control



Color: Bronze

WPLED80

- High performance LED light engine
- Maintains 70% of initial lumens at 100,000 hours
- Weatherproof high temperature silicone gaskets
- Superior heat sinking with die cast aluminum housing and external fins
- Traditional wallpack look from the front
- 3 cutoff options
- 5-year warranty

LIVE CHAT

LED Info

Watts:	80W
Color Temp:	5000K
Color Accuracy:	73 CRI
L70 Lifespan:	100000
Lumens:	9437
Efficacy:	112 LPW

Driver Info

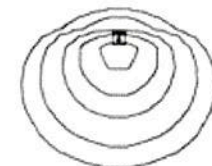
Type:	Constant Current
120V:	0.71A
208V:	0.41A
240V:	0.36A
277V:	0.31A
Input Watts:	83W

Dimensions

Weight: 17.6 lbs



EZ Layout



Design a custom lighting layout

Technical Specifications

Listings

UL Listing:
Suitable for Wet Locations as Uplight and Downlight Wall Mount Only.

DLC Listed:
This product is listed by Design Lights Consortium (DLC) as an ultra-efficient premium product that qualifies for the highest tier of rebates from DLC Member Utilities.
DLC Product Code: P71JDPX6

IESNA LM-79 & LM-80 Testing:
RAB LED Luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80, and have received the Department of Energy "Lighting Facts" label.

LED Characteristics

LEDs:
Two (2) multi-chip, high-output, long-life LEDs.

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

Color Consistency:
7-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color.

Color Stability:
LED color temperature is warranted to shift no more than 200K in CCT over a 5 year period.

Color Uniformity:
RAB's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377.2011.

Replacement:
Replaces 250W Metal Halide.

Electrical

Driver:
Constant Current, Class 2, 2000mA, 100-277V, 50-60Hz, 1.1A, Power Factor 99%

Mounting:
Die-cast aluminum wall bracket with (5) 1/2" conduit openings with plugs. Two-piece bracket with tether for ease of installation and wiring.

Arm:
Die-cast aluminum with wiring access plate.

Cutoff:
Standard (15°)

Lens:
Tempered glass

Reflector:
Specular vacuum metallized polycarbonate.

Gaskets:
High-temperature silicone gaskets, including a wiring plug gasket, seal out moisture.

Finish:
Formulated for high-durability and long lasting color.

Green Technology:
Mercury and UV free. RoHS compliant components. Polyester powder coat finish formulated without the use of VOC or toxic heavy metals.

IP Rating:
Ingress Protection rating of IP66 for dust and water

Other

California Title 24:
WPLED80/PCS complies with 2013 California Title 24 building and electrical codes as a commercial outdoor pole-mounted fixture > 30 Watts mounted at height greater than 24 feet. For mounting heights < 24 feet see WPLED52/BL with bi-level operation; additional component requirements will be listed in the Title 24 section under technical specifications on the product page.

Patents:
The WPLED design is protected by patents in the U.S. Pat D653,377, Canada Pat. 142252, China Pat. ZL201130356930.8, and Mexico Pat. 36921 and pending patent in TW.

Surge Protection:
4kV

Construction

Cold Weather Starting:
Minimum starting temperature is -40°C (-40°F)

Maximum Ambient Temperature:
Suitable for use in 40°C (104°F) ambient temperatures

Thermal Management:
Superior thermal management with external "Air-Flow" fins.

Housing:
Precision die cast aluminum housing, lens frame.

Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish. [See our full warranty here.](#)

Buy American Act Compliance:

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

Optical

BUG Rating:
B1 U2 G3

LIGHTING DESIGN

Our lighting designers can help you create a custom LED lighting layout for your job. For free. Really.

Free Layout





Color: White

SLIM26YW/D10

Full cutoff, fully shielded LED wallpack

Can be used as a downlight or uplight

Contractor friendly features for easy installation

100,000-hour LED Life

5-Year Warranty



LED Info

Watts: 26W
 Color Temp: 3000K
 Color Accuracy: 70 CRI
 L70 Lifespan: 100000
 Lumens: 3452
 Efficacy: 116 LPW

Driver Info

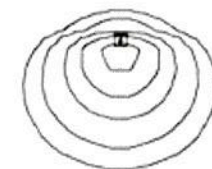
Type: Constant Current
 120V: 0.27A
 208V: 0.17A
 240V: 0.15A
 277V: 0.13A
 Input Watts: 30W

Dimensions

Weight: 4.5 lbs



EZ Layout



Design a custom lighting layout

Technical Specifications

Listings

UL Listing:

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

DLC Listed:

This product is listed by Design Lights Consortium (DLC) as an ultra-efficient premium product that qualifies for the highest tier of rebates from DLC Member Utilities.

DLC Product Code: P9WRNYTA

ADA Compliant:

SLIM™ is ADA Compliant.

Dark Sky Approved:

The International Dark Sky Association has approved this product as a full cutoff, fully shielded luminaire.

IESNA LM-79 & LM-80 Testing:

RAB LED luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80, and have received the Department of Energy "Lighting Facts" label.

Construction

IP Rating:

Ingress Protection rating of IP66 for dust and water

Cold Weather Starting:

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

Maximum Ambient Temperature:

Suitable for use in 40°C (104°F) ambient temperatures

Housing:

Precision die-cast aluminum housing.

Mounting:

Heavy-duty mounting bracket with hinged housing for easy installation.

Recommended Mounting Height:

Up to 22 ft.

Lens:

Tempered glass lens.

Green Technology:

Mercury and UV free. RoHS compliant components. Polyester powder coat finish formulated without the use of VOC or toxic heavy metals.

LED Characteristics

LED:

Multi-chip, long-life LED.

Lifespan:

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

Color Consistency:

3-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color.

Color Stability:

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

Color Uniformity:

RAB's range of CCT (Correlated Color Temperature) follows the guidelines for the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2015.

HID Replacement Range:

Replaces 175W Metal Halide.

Electrical

Driver:

Constant Current, Class 2, 100-277V, 50/60 Hz., 6KV surge protection, 720mA, 100-277VAC 0.4 Amps, Power Factor 99%.

Dimming Driver:

Driver includes dimming control wiring for 0-10V dimming systems. Requires separate 0-10V DC dimming circuit. Dims as low as 10%.

Other

California Title 24:

See SLIM26/D10 for a 2013 California Title 24 compliant product. Any additional component requirements will be listed in the Title 24 section under technical specifications on the product page.

Patents:

The design of the SLIM™ is protected by patents in U.S. Pat D681,864, and

Reflector:
Specular thermoplastic.

Gaskets:
High-temperature silicone

Finish:
Formulated for high-durability and long lasting color.

pending patents in Canada, China, Taiwan and Mexico.

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

Optical

BUG Rating:
B1 U0 G0

BUG Rating:
B1 U0 G0

LIGHTING DESIGN

Our lighting designers can help you create a custom LED lighting layout for your job. For free. Really.

Free Layout

