

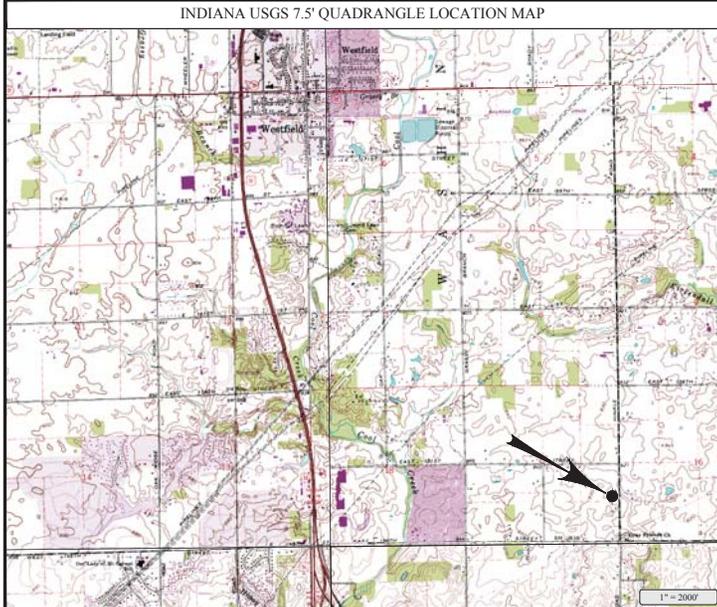
RADRICK PROFESSIONAL BUILDING LOT 3 BRIDGEWATER MARKETPLACE

City of Westfield, Indiana

Owner:
Dr. Justin Gilmore
14643 North Gray Rd.
Westfield, Indiana 46062

Site Engineer:
Bordenet Civil Engineering &
Land Surveying, LLC
sbordenet@civil-lls.com
Ph. 317-536-6181
8902 Alibek Ct.
Indianapolis, IN 46256

Regulatory Agency:
City of Westfield Economic &
Community Development
Ph. 317-804-3170
Fax 317-804-3181
2728 E. 171st Street
Westfield, Indiana 46074



LAND DESCRIPTION

A part of the Northeast Quarter of the Southeast Quarter of Section 17, Township 18 North, Range 4 East, Washington Township, Hamilton County, Indiana, and more particularly described as follows:

Lot 3 of the Replat of Lots 2 & 3 Bridgewater Marketplace Section 3 recorded as Instrument Number 2015054146 in the Office of the Recorder in Hamilton County, Indiana.

CONTACT INFORMATION

Police	317-404-5200
	17535 Dartown Road Westfield, Indiana 46074
Fire	Garry Harling 317-404-3307
	17535 Dartown Road Westfield, Indiana 46074
Westfield Public Works	Jeremy Lullar / Phil Sundling 317-404-3100
	2706 E. 171st Street Westfield, Indiana 46074
Westfield Pre-Construction	John Rankin 317-404-3147
	2706 E. 171st Street Westfield, Indiana 46074
Westfield Stormwater	Mike Morgan / Wes Road 317-404-3100
	2706 E. 171st Street Westfield, Indiana 46074
Water & Sewer	Citizens Westfield Jeff Miller 317-263-6442
	2150 Dr. Martin Luther King Drive Indianapolis, Indiana 46202
Gas	Vectren Rea Glover / Chad Miller 317-776-5550
	P.O. Box 1700 Noblesville, Indiana 46061
Electric	Duke Energy Bill Oldham 317-776-5331
	100 South Mill Creek Road Noblesville, Indiana 46062
Data/Telecom	AT&T Steve Krebs 317-252-4275
	5888 North College Avenue Indianapolis, Indiana 46220

INDEX

Sheet Number	Description
C1.0	Title Sheet
C2.0	Site Plan
C2.1	Grading Plan
C2.2	Erosion Control Plan
C3.0	Erosion Control Details
C3.1	Site Details
C3.2	Sewer Details
C4.0	Construction Specifications

PLAN STATUS

LOCAL PLANNING	PENDING
WATER UTILITY	COORDINATE WITH CITIZENS
SANITARY UTILITY	COORDINATE WITH CITIZENS
ELECTRIC UTILITY	COORDINATE WITH UTILITY PROVIDER
GAS UTILITY	COORDINATE WITH UTILITY PROVIDER
TELEPHONE UTILITY	COORDINATE WITH UTILITY PROVIDER
CABLE UTILITY	NOT APPLICABLE
IRRM SANITARY MAIN EXTENSION	NOT APPLICABLE
IRRM WATER MAIN EXTENSION	NOT APPLICABLE
IRRM BULKHEAD	NOT APPLICABLE

These plans must meet the approval of the local planning authority for permit acquisition. Also, these plans must satisfy the requirements of local utility service providers. Submit service requests/applications for utility plan review or coordinate with the site engineer or architect. These plans should only be used for estimating purposes until applicable approvals are obtained.

REVISION BLOCK

NO.	DESCRIPTION	DATE
1	REV. FOR DC WATER SEWER DRAINAGE	6-28-16

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TITLE SHEET

FINAL CONSTRUCTION PLANS

Plan Date: June 16th, 2016

PROJECT NARRATIVE

Project Description:
These plans constitute Civil-Engineering & Land Surveying, LLC's final design for the construction of a commercial office building over lot 3 of Bridgewater Marketplace, Westfield, Indiana. Improvements consist of building and parking lot construction with sanitary, water, and electric, gas and communication utility connections.

The required detention facility and BMP improvements have been accommodated by the marketplace subdivision.

Project Summary:

Number of Lots	1 (1.47 Ac.)
Open Lot Area	0.53 Ac.
Impervious Area (incl. building)	40,892 sq-ft
Building Area	10,000 sq-ft
Area of Site Disturbance	1.28 ac.
Total Parking Spaces Provided (incl. ADA)	57
Number of ADA Spaces Provided	4
1/2" RCP Storm Sewer	214 ft-l.
No. Precast Modified A Inlets	2
No. 48" Storm Manholes	1
6" SDR 26 Sewer Laterals	50 ft-l.

Site Flood Information:
This property is not affected by the 100 Year Flood Plain according to National Flood Insurance Boundary and Floodway Maps. The referenced map is Map Number 1805/0140F effective date, February 19th, 2003.

Permit Requirements:
It is the contractor's responsibility to ensure that all necessary permits required for construction have been obtained prior to the commencement of any work.

Pre-Construction Notification:
The contractor shall schedule a pre-construction meeting with the City of Westfield prior to any construction on the site being started.

INDIANA UNDERGROUND

PLANT PROTECTION SERVICE
1-800-382-5544

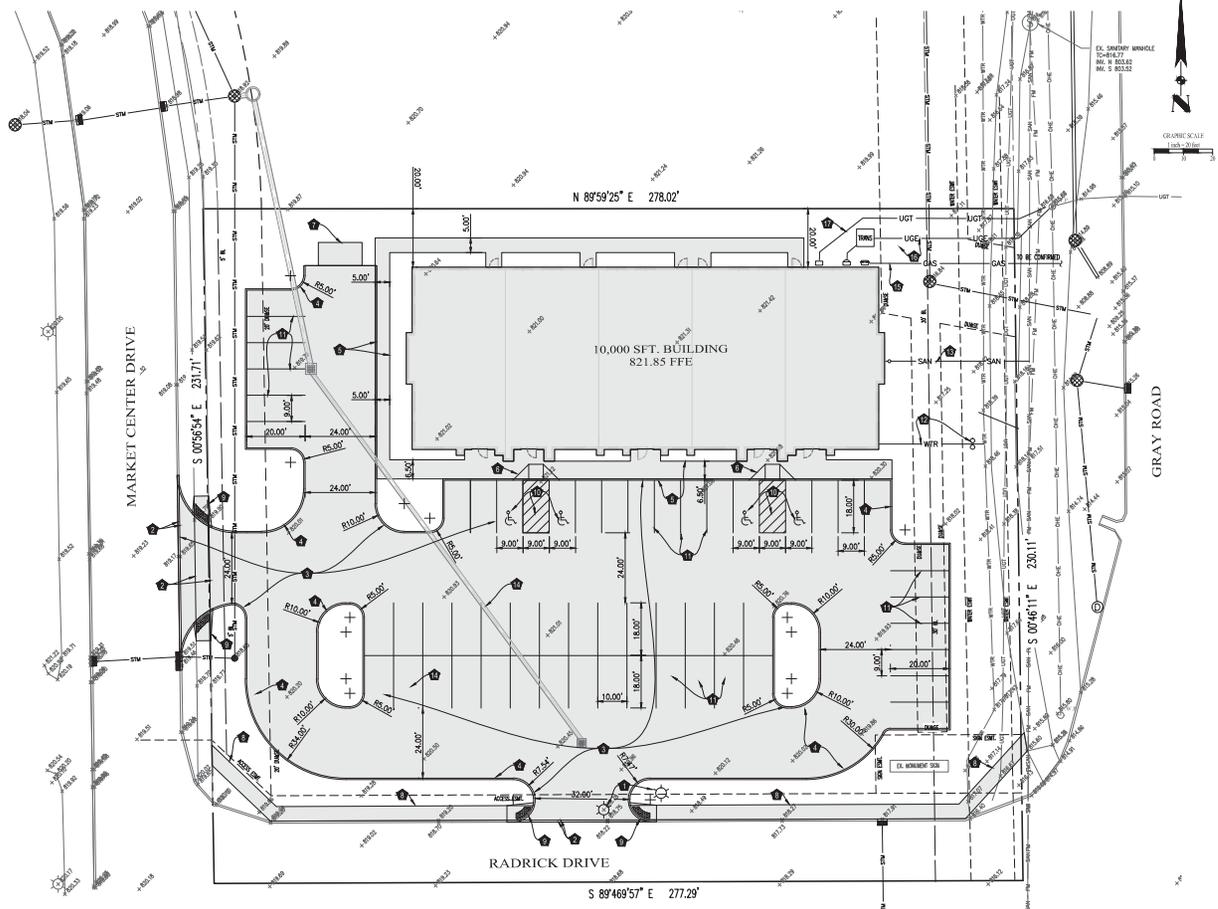
Bordenet Civil Engineering &
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8902 Alibek Ct.
Indianapolis, IN 46256

Project Number:
2016-153

Sheet No.:
C1.0 (TITLE SHEET)

GENERAL NOTES

- A. THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT PROVISIONS OF THE MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION ISSUED BY AGC OF AMERICA AND THE SAFETY AND HEALTH REGULATIONS OF CONSTRUCTION ISSUED BY THE U.S. DEPARTMENT OF LABOR.
- B. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS NECESSARY TO COMPLETE ALL WORK SHOWN ON THESE PLANS.
- C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL CONTACT THE UTILITIES COMPANY AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF WORK.
- D. WHEN NECESSARY FOR COMPLETION OF NEW CONSTRUCTION THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING FEATURES (I.E. PAVING, UTILITIES, DRAINAGE, ETC.), WHICH ARE TO REMAIN AT NO ADDITIONAL COST TO THE OWNER.
- E. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NECESSARY TO PROVIDE A SMOOTH VERTICAL AND HORIZONTAL TRANSITION BETWEEN EXISTING AND PROPOSED PAVEMENTS.
- F. ALL SITE CONSTRUCTION, MATERIALS, AND FEATURES (I.E. CURBS, WALKS, PAVING, CONCRETE, STORM DRAINAGE FEATURES, SEEDING, SOILING, EARTHWORK, ETC.) SHALL BE IN ACCORDANCE WITH ALL CITY AND STATE STANDARDS AND SPECIFICATIONS.
- G. THE CONTRACTOR SHALL FIELD VERIFY DIMENSIONS BEFORE ORDERING MATERIAL. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER OR HIS REPRESENTATIVE AND RESOLVED PRIOR TO THE COMMENCEMENT OF WORK.
- H. ROADWAY DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
- I. ALL CURB RADI ARE 3.0 FEET UNLESS OTHER WISE SPECIFIED.
- J. CONTACT THE PROJECT ENGINEER FOR AN ELECTRONIC FILE CONTAINING COORDINATE GEOMETRY OF THE PROPOSED DEVELOPMENT.
- K. CONFIRM ALL BUILDING DIMENSIONS WITH THE ARCHITECTURAL PLANS. HOLD ALL BUILDING DIMENSIONS SHOWN ON THE ARCHITECTURAL PLANS.



**RADRICK PROFESSIONAL BUILDING
LOT 3 BRIDGEWATER MARKETPLACE**

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 Westfield, Indiana 46074

**SITE PLAN
FINAL CONSTRUCTION PLANS**

Plan Date: June 16th, 2016



PLAN NOTES

- 1. INDICATE STREET LIGHT TO INDICATED LOCATION.
- 2. REMOVE EXISTING SIDEWALK AND CURB FOR NEW DRAWINGS.
- 3. SW/CL1 PAVE EXISTING DRIVES AND PARKING LOTS WITH STANDARD ASPHALT SECTION.
- 4. CO/RE/CL1 CONSTRUCT STAND OR EXPOSED TYPE CURB. SEE CITY OF WESTFIELD DETAILS SHEET 9 FOR STAND CURB DETAILS.
- 5. MW/CL1 CONSTRUCT MANHOLE SIDEWALK AND CURB.
- 6. RW/CL1 CONSTRUCT BUILDING SWAMP WHERE INDICATED.
- 7. CONSTRUCT DUMPSTER ENCLOSURE. SEE ARCHITECTURAL PLANS FOR DETAILS.
- 8. SW/CL1 CONSTRUCT SIDEWALK.
- 9. MW/CL1 CONSTRUCT SIDEWALK SWAMP WITH TRUNCATED DOWNS.
- 10. RW/CL1 STRIPE HANDBOOK PARKING SPACE.
- 11. STRIPE PARKING SPACES WITH 4" WIDE WHITE PARKING STRIPES.
- 12. CONSTRUCT 1-1/2" WIDE SERVICE PAVES WITH DRAIN WATER METERS AT PROPERTY LINE AND BUILDING WALK AT BUILDING FACE. COORDINATE SERVICE WITH REUSE SERVICE PROVIDER.
- 13. CONSTRUCT 4" SERVICE LATERAL AND BUILDING CLEANOUT TO CITY OF WESTFIELD SPECIFICATIONS. SEE SPRING PLAN FOR TOP OF EXISTING AND PIPE WATER ELEVATIONS.
- 14. CONSTRUCT STORM SEWER TO CITY OF WESTFIELD SPECIFICATIONS. SEE SPRING PLAN FOR READY AND TOP OF EXISTING ELEVATIONS.
- 15. CONSTRUCT GAS SERVICE LINE. SET GAS METER AT BUILDING FACE. COORDINATE GAS LOAD INFORMATION AND SERVICE APPLICATION WITH THE UTILITY PROVIDER.
- 16. CONSTRUCT ELECTRIC SERVICE LINE AND PLACE TRANSFORMER WHERE INDICATED. SET ELECTRIC METER AT BUILDING FACE. COORDINATE SERVICE INFORMATION AND APPLICATION WITH THE UTILITY PROVIDER.
- 17. CONSTRUCT TELEPHONE SERVICE LINE. COORDINATE SERVICE INFORMATION AND APPLICATION WITH THE UTILITY PROVIDER.

Bonden Civil Engineering &
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 Fax 317-536-6220
 8902 Altheck Ct.
 Indianapolis, IN 46256

Project Number:

2016-153

Sheet No. :

C2.0 (SITE PLAN)

LEGEND

- Chain Link Fence
- Board Fence
- Open Wire Fence
- Iron Fence
- Overhead Utility Line
- Flow line of ditch
- Buried Gas Line
- Buried Water Line
- Buried Telephone Line
- Buried Electric Line
- Point of Beginning
- Telephone Pedestal
- Telephone Manhole
- Clean Out
- Inlet
- Storm Manhole
- Utility Pole
- Utility Pole w/ light
- Utility Pole w/ cross
- Sign
- Light Standard
- Gas Valve
- Fire Hydrant
- Air Conditioner
- Gas Meter
- Water Valve
- Splitter Control Valve
- Street Flow
- Fiber Optic Marker
- Gas Line Marker
- Sanitary Manhole
- Guy Wire
- Curb Inlet
- Manhole
- Electric Transformer
- Cook Pedestal
- Flag Pole
- Electric Meter
- Water Meter
- Telephone Junction Box
- Electric Junction Box
- Rubber
- Gate Post
- Electric Manhole
- Traffic Manhole
- Gate Post
- Traffic Signal Pole
- Parking Meter
- Fuel Filter Cup
- Fuel Tank lid
- Monitoring Well
- Soil Boring Hole
- Lot Number
- Right of Way
- Reinforced Concrete Pipe
- Compacted Plastic Pipe
- Compacted Metal Pipe
- VSP Vertical Guy Pipe
- Flat Dimension
- Measured Dimension
- Dead Dimension
- Circulated Dimension
- Fire Protection Valve
- Final Indicator Valve
- Building Line (per plot)
- U.E. Utility Easement (per plot)
- Iron Pin Set (3/8" Meter w/ red cap marked "70000")
- 1/2" Mag Nail Set / Found
- 5/8" Rubber Round
- Cut "X" Set / Found
- Existing Contour
- Existing Spot Elevation
- Finished Floor Elevation

REVISION BLOCK

NO.	DESCRIPTION	DATE
1	REV. FOR RC WATER SEWER DRAINAGE	4-28-16

Bonden Civil Engineering & Land Surveying, LLC - 8902 Altheck Ct., Indianapolis, IN 46256 - Ph. 317-536-6181 - Fax 317-536-6220 - Web: www.bonden-civil.com - Jan. 16, 2016, 2:55PM PM

GENERAL NOTES

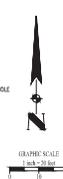
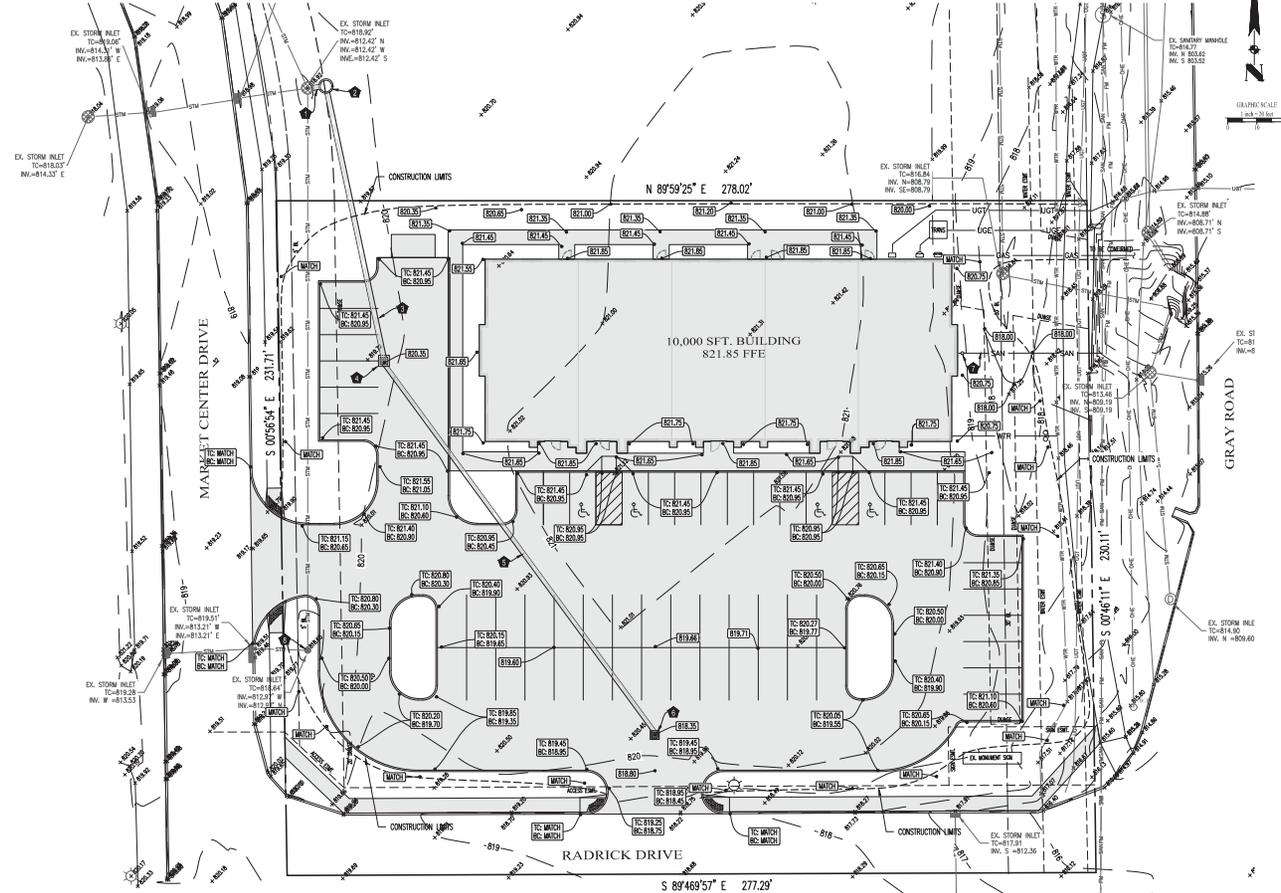
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- L. ALL GRADES ARE TO FINISHED PAVEMENT UNLESS DENOTED OTHERWISE. TC = TOP OF CURB; BC = BOTTOM OF CURB. ADD 6" (0.5') TO ALL FINISHED PAVEMENT GRADES TO DETERMINE ADJACENT TOP OF CURB GRADES (ALL CURBS ARE 6" TALL). "MATCH" MEANS TO MATCH EXISTING GRADE.

LEGEND

- Chain Link Fence
- Board Fence
- Open Wire Fence
- Iron Fence
- Overhead Utility Line
- Flow line of ditch
- Buried Gas Line
- Buried Water Line
- Buried Telephone Line
- Buried Electric Line
- P.O.B. Point of Beginning
- Telephone Pedestal
- Telephone Manhole
- Clean Out
- Inlet
- Storm Manhole
- Utility Pole
- Utility Pole w/ Light
- Utility Pole w/ Lines
- Sign
- Light Standard
- Gas Valve
- Fire Hydrant
- Air Conditioner
- Gas Meter
- Water Valve
- Sprinkler Control Valve
- Stand Pipe
- Fiber Optic Marker
- Gas Line Marker
- Sanitary Manhole
- Guy Wire
- Curb Inlet
- Meltdown
- Electric Transformer
- Cable Pedestal
- Flag Pole
- Electric Meter
- Water Meter
- Telephone Junction Box
- Electric Junction Box
- Valve
- Gate Post
- Electric Manhole
- Traffic Manhole
- Trucking Signal Pole
- Parking Meter
- Fuel Filler Cap
- Fuel Tank Lid
- Monitoring Well
- Soil Boring Hole
- Lot Number
- R/W Right of Way
- RCP Reinforced Concrete Pipe
- CMP Corrugated Metal Pipe
- CPV Corrugated Plastic Pipe
- VSP Vertical Clay Pipe
- FP Flat Dimension
- FD Flat Dimension
- M Measured Dimension
- D Dead Dimension
- C Calculated Dimension
- FPV Fire Protection Valve
- PIV Private Indicator Valve
- U.E. Utility Easement (per plot)
- Iron Pin Set (3/8" Meter w/ red cap marked "Per 1000")
- Mag Nail Set / Found
- 5/8" Rubber Round
- Cut "Y" Set / Found
- Existing Contour
- Existing Spot Elevation
- Finished Floor Elevation

REVISION BLOCK

NO.	DESCRIPTION	DATE
1	REV. FOR THE 2008 DRAINAGE	4-24-08



RADRICK PROFESSIONAL BUILDING
LOT 3 BRIDGewater MARKETPLACE
City of Westfield, Indiana

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GRADING PLAN
FINAL CONSTRUCTION PLANS

Plan Date: June 16th, 2016



PLAN NOTES

1. CP/C3.2 CONSTRUCT 4 LIT OF 15" RCP AT 0.7% INVERT @ 812.65; INVERT UP: 812.65.
2. MW/C3.2 SET TYPE #8" MANHOLE, TOP OF CAST 819.50.
3. CP/C3.2 CONSTRUCT 80 LIT OF 15" RCP AT 0.7% INVERT @ 812.75; INVERT UP: 813.40.
4. MA/C3.2 SET MODIFIED A INLET WITH NEEDMA RS405 CASTING AND CONCRETE COLLAR. SET CASTING AT 820.35.
5. CP/C3.2 CONSTRUCT 158 LIT OF 12" RCP AT 1.0% INVERT @ 813.50; INVERT UP: 815.06.
6. MA/C3.2 SET MODIFIED A INLET WITH NEEDMA RS405 CASTING AND CONCRETE COLLAR. SET CASTING AT 818.35.
7. CO/S1/C3.2 CONSTRUCT 50 LIT OF 6" SANITARY LATER. CONSTRUCTED AT MIN. 2% INVERT AT BUILDING FACE = 815.00. CONTRACTOR TO CONFIRM CONNECTION ELEVATION. SET TYPE #8" CLEANOUT AT BUILDING FACE WITH TC = 821.25
8. ADJUST EXISTING CASTING TO TC=819.50

** NOTE ALL PIPE SHALL BACKFILLED **
** INDICATED BY "B8" DETAIL SHEET C3.2 **

INDIANA UNDERGROUND



PLANT PROTECTION SERVICE
1-800-382-5544

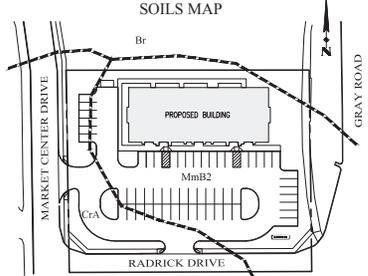
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Indianapolis, IN 46256

Project Number: 2016-153

Sheet No.: C2.1 (GRADING PLAN)

GENERAL NOTES

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- G. THE CONTRACTOR SHALL FIELD VERIFY DIMENSIONS BEFORE ORDERING MATERIAL. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER OR HIS REPRESENTATIVE AND RESOLVED PRIOR TO THE COMMENCEMENT OF WORK.
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- L. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE CITY OF WESTFIELD INSPECTORS.
- M. PORTABLE TOILETS MUST BE ANCHORED TO PREVENT SPILLS.
- N. NO DIRT, DEBRIS, OR STORAGE OF MATERIAL SHALL BE PERMITTED IN THE STREET.



SOILS MAP

Br Breaktonilly clay loam
 CrA Grassy SR Loam, 0 to 3 percent slopes
 MmB2 Miami silt loam, 2 to 6 percent slopes, eroded

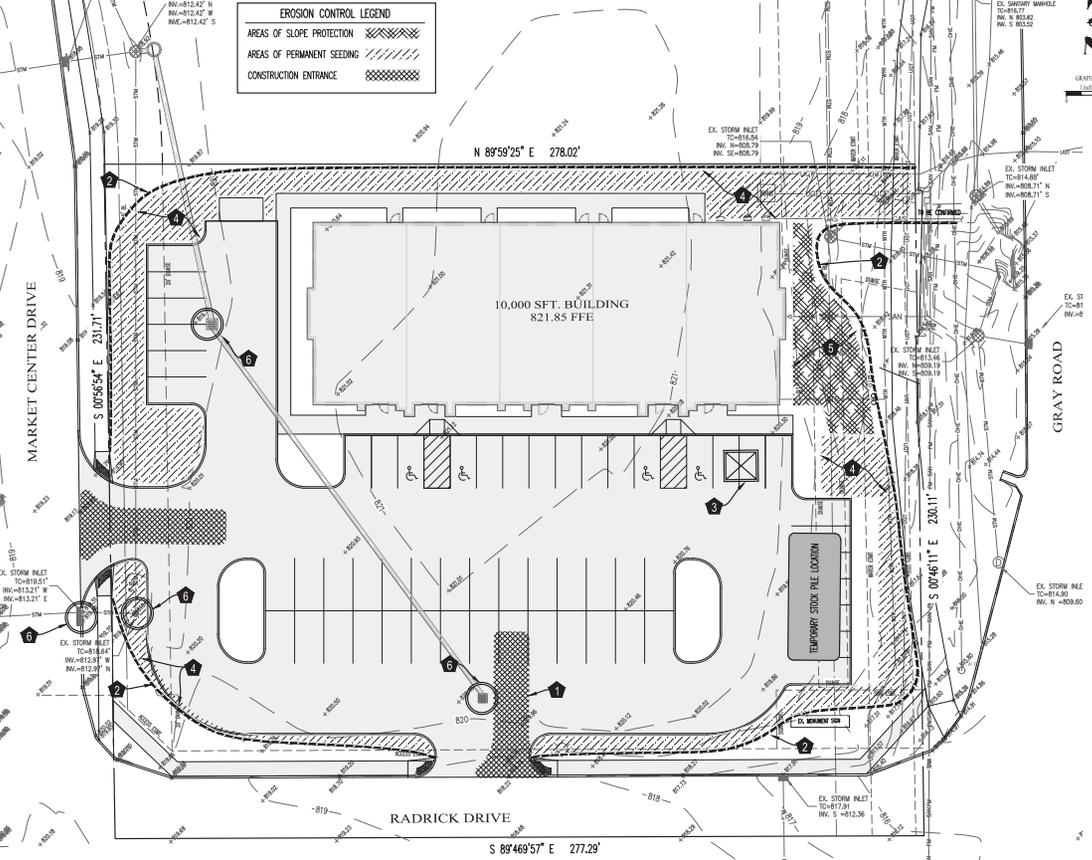
Soil definition taken from the Indiana OS Atlas. The soil information is as supplied by the Soil Survey Geographic (SSURGO) Database, 2015.

LEGEND

--- Chain Link Fence	⊕ Electric Meter
--- Board Fence	⊕ Water Meter
--- Open Wire Fence	⊕ Telephone Junction Box
--- Iron Fence	⊕ Electric Junction Box
--- Overhead Utility Line	⊕ Rubber
--- Flow line of ditch	⊕ Gate Post
--- Buried Gas Line	⊕ Electric Manhole
--- Buried Water Line	⊕ Traffic Manhole
--- Buried Telephone Line	⊕ Traffic Signal Pole
--- Buried Electric Line	⊕ Parking Meter
P.O.B. Point of Beginning	⊕ Fuel Tank 60
⊕ Telephone Pedestal	⊕ Monitoring Well
⊕ Telephone Manhole	⊕ Soil Boring Hole
⊕ Clean Out	⊕ Lot Number
⊕ Inlet	⊕ Right of Way
⊕ Storm Manhole	⊕ Reinforced Concrete Pipe
⊕ Utility Pole	⊕ CMP Corrugated Metal Pipe
⊕ Utility Pole w/ Light	⊕ CMP Corrugated Plastic Pipe
⊕ Utility Pole w/ Lines	⊕ VSP Vertical Clay Pipe
⊕ Sign	⊕ Flat Dimension
⊕ Light Standard	⊕ Flat Dimension
⊕ Gas Valve	⊕ Measured Dimension
⊕ Spigot Control Valve	⊕ Dead Dimension
⊕ Street Pipe	⊕ Color-coded Dimension
⊕ Fiber Optic Manhole	⊕ Fire Protection Valve
⊕ Gas Line Marker	⊕ Fire Indicator Valve
⊕ Sanitary Manhole	⊕ Fuel Filter Cup
⊕ Curb Inlet	⊕ U.E. Utility Easement (per plot)
⊕ Manhole	⊕ Iron Pin Set (5/8" Rebar w/ not set marked "Tree 0000")
⊕ Electric Transformer	⊕ 1/2" Rebar Set / Found
⊕ 800.32 Existing Contour	⊕ 5/8" Rebar Found
⊕ 800.32 Existing Spot Elevation	⊕ Cut "S" Set / Found
⊕ FFE Finished Floor Elevation	⊕ 800.32 Existing Contour

REVISION BLOCK

NO.	DESCRIPTION	DATE
1	REV. FOR THE WATER SYSTEM	4-24-15



RADRICK PROFESSIONAL BUILDING
 LOT 3 BRIDGEWATER MARKETPLACE
 City of Westfield, Indiana

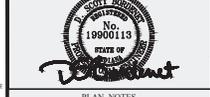
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EROSION PLAN
FINAL CONSTRUCTION PLANS

Plan Date: June 16th, 2016



PLAN NOTES

- | NOTE | ITEM/SHR. | DESCRIPTION |
|------|-----------|--|
| 1. | C.L.O. | CONSTRUCT STABLE CONSTRUCTION ENTRANCE WHERE INDICATED. |
| 2. | C.L.O. | PLACE Silt FENCE ON DOWNSLOPES WHERE INDICATED. |
| 3. | C.L.O. | PLACE CONCRETE WASHOUT WHERE INDICATED. |
| 4. | PS/C.L.O. | ALL DISTURBED YARD AREAS SHALL BE SEED (HATCHED AREA) |
| 5. | C.L.O. | PROTECT INDICATED SLOPED AREAS (HATCHED AREA) WITH SLOPE PROTECTION. |
| 6. | C.L.O. | INLETS SHALL HAVE DAM-WY-SACK (OR EQVA.) PROTECTION. |

INDIANA UNDERGROUND



PLANT PROTECTION SERVICE
 1-800-382-5544

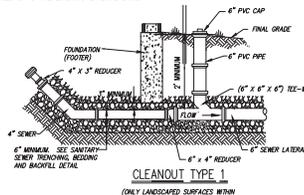
Bondnet Civil Engineering &
 Land Surveying, LLC
 Ph. 317-536-6181
 Fax: 317-536-6220
 8902 Albeck Ct.
 Indianapolis, IN 46256

Project Number: 2016-153

Sheet No.: C2.2 (EROSION PLAN)

Bondnet Civil Engineering & Land Surveying, LLC - 8902 Albeck Ct., Indianapolis, IN 46256 - Ph. 317-536-6181 - Fax: 317-536-6220 - Web: www.bondnet.com - Jan. 16, 2016, 2:55:59 PM

NOTE: ALL SLAB AND DRAIN SPACE CONNECTIONS MUST BE A MINIMUM OF 3" BELOW THE FOOTER AND EXTEND THE BUILDING TO THE FRONT OF THE STRUCTURE TO PROVIDE THE SHORTEST, MOST DIRECT ROUTE FROM THE BUILDING TO THE EXISTING LATERAL SLUB.

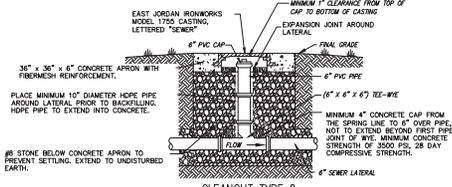


CLEANOUT TYPE 1
(ONLY LANDSCAPED SURFACES WITHIN THREE FEET OF BUILDING)

NOTE: ALL CLEANOUT PIPE AND FITTINGS TO BE PVC. SCHEDULE 40 OR SCH 35 WHEN SHALLOWER THAN 12 FEET. ALL DEPTHS GREATER THAN 12 FEET MATERIAL OF CONSTRUCTION WILL BE DETERMINED BY ENGINEER.

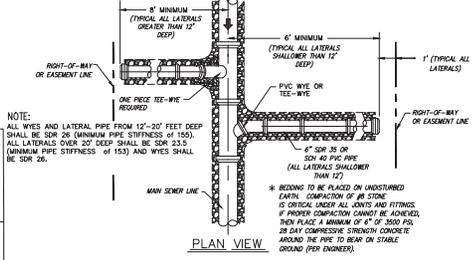
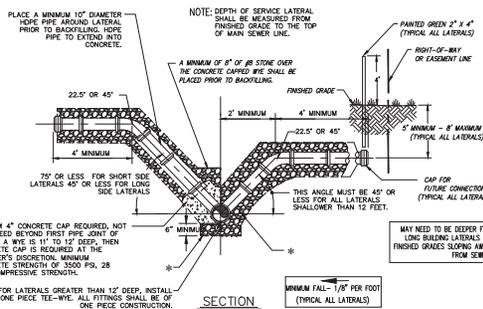
TYPICAL CLEAN OUT DETAILS (CO)

NOTE: CONCRETE APRON AND CASTING SHALL BE INSTALLED SO THAT THEY DO NOT CONTACT THE LATERAL OR LATERAL CAP.



CLEANOUT TYPE 2
(HARDSCAPE SURFACES AND ALL OTHER INSTALLATIONS BEYOND THREE FEET OF BUILDING)

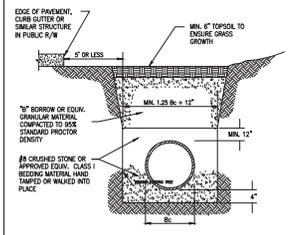
NOTE: TOP OF CASTING OR CAP SHALL EXTEND 0.30" MINIMUM ABOVE FINISHED GRADE UNLESS UNLESS OTHERWISE PRESCRIBED BY GENERAL NOTE #11. UNLESS APPROVED BY ENGINEER, SANITARY SEWER CASTINGS OR CLEANOUTS MUST NOT BE WITHIN 1' HORIZONTAL DISTANCE OF ANY PAVED OR CONCRETE SURFACES.



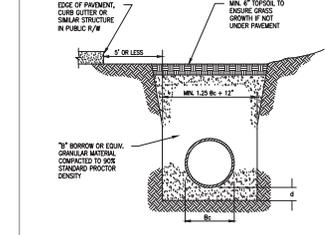
NOTE: LATERAL MAY NOT BE HIGHER THAN 6" ABOVE EXISTING BENCH MARK. SERVICE LINE MAY NOT ENTER MANHOLE THROUGH CONE SECTION OR ITS JOINT. CONNECTION OF THE PROPOSED SANITARY SEWER SHALL BE BY CORE DRILLING AND A FLEXIBLE BOOT, KOR-N-SEAL 1 OR 2 OR AN APPROVED EQUAL (CONFORMING TO ASTM C-923) SHALL BE USED. THE CONNECTION SHALL PROVIDE FOR A WATERPROOF SEAL BETWEEN THE PIPE AND MANHOLE. THE CONNECTOR SHALL BE THE SOLE ELEMENT RELIED UPON TO ASSURE A FLEXIBLE WATERPROOF SEAL OF THE PIPE TO THE MANHOLE.

SERVICE LATERAL DETAIL (SL)

MORE THAN 12' DEEP LESS THAN 12' DEEP



NOTE: ALL BEDDING & INITIAL BACKFILL SHALL BE IN 6" TO 12" BALANCED LIFTS. MIN. 9" OF CLEARANCE SHALL BE PROVIDED ON EACH SIDE OF THE INSTALLED PIPE.



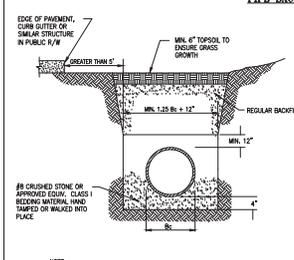
NOTE: ALL BEDDING & INITIAL BACKFILL SHALL BE IN 6" TO 12" BALANCED LIFTS. MIN. 9" OF CLEARANCE SHALL BE PROVIDED ON EACH SIDE OF THE INSTALLED PIPE.

LEGEND
B = OUTSIDE DIAMETER
D = INSIDE DIAMETER
D = DEPTH OF BEDDING MATERIAL BELOW PIPE

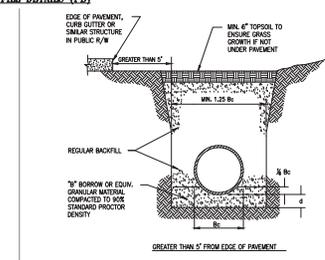
LEGEND
B = OUTSIDE DIAMETER
D = INSIDE DIAMETER
D = DEPTH OF BEDDING MATERIAL BELOW PIPE

PLASTIC PIPE (PVC AND HDPE) TRENCH DETAIL WITHIN 5' FROM EDGE OF PAVEMENT

REINFORCED CONCRETE PIPE (RCP) TRENCH DETAIL WITHIN 5' FROM EDGE OF PAVEMENT



NOTE: ALL BEDDING & INITIAL BACKFILL SHALL BE IN 6" TO 12" BALANCED LIFTS. MIN. 9" OF CLEARANCE SHALL BE PROVIDED ON EACH SIDE OF THE INSTALLED PIPE.



NOTE: ALL BEDDING & INITIAL BACKFILL SHALL BE IN 6" TO 12" BALANCED LIFTS. MIN. 9" OF CLEARANCE SHALL BE PROVIDED ON EACH SIDE OF THE INSTALLED PIPE.

LEGEND
B = OUTSIDE DIAMETER
D = INSIDE DIAMETER
D = DEPTH OF BEDDING MATERIAL BELOW PIPE

LEGEND
B = OUTSIDE DIAMETER
D = INSIDE DIAMETER
D = DEPTH OF BEDDING MATERIAL BELOW PIPE

PLASTIC PIPE (PVC AND HDPE) TRENCH DETAIL GREATER THAN 5' FROM EDGE OF PAVEMENT

REINFORCED CONCRETE PIPE (RCP) TRENCH DETAIL GREATER THAN 5' FROM EDGE OF PAVEMENT

RADRICK PROFESSIONAL BUILDING
LOT 3 BRIDGEWATER MARKETPLACE
City of Westfield, Indiana

Owner: Dr. Justin Gilmore
14643 North Gray Rd.
Westfield, Indiana 46082

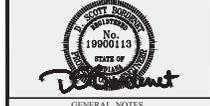
Site Engineer: Bondert Civil Engineering & Land Surveying, LLC
317-884-1170
317-536-6181
8902 Albeck Ct.
Indianapolis, IN 46256

Regulatory Agency: City of Westfield Economic & Community Development
317-884-1170
317-884-3181
2728 E. 171st Street
Westfield, Indiana 46074

SEWER DETAILS

FINAL CONSTRUCTION PLANS

Plan Date: June 16th, 2016



GENERAL NOTES

NOTE: DETAIL, DESCRIPTION

NO.	DESCRIPTION	DATE
1	REV. FOR PER REVIEW 3/28/16	4-8-16

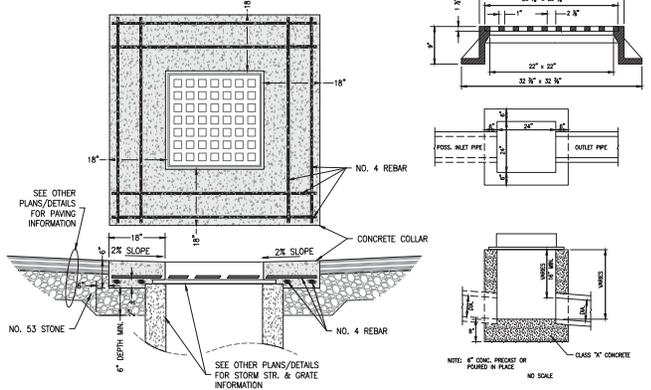
TYPICAL PIPE DETAIL - SINGLE SPIGOT OFFSET FOR PROFILE GASKET (CP)

D (IN)	T (IN)	L (FT)	R (IN)	W (LB/FT)
12	# 2	8	20 1/4	99
15	# 2 1/8	8	23 7/8	148
18	# 2 1/2	8	28	198
21	# 2 3/4	8	31 5/8	246
24	# 3	8	35 1/2	294
27	# 3 1/2	8	39	342
30	# 4	8	42 1/2	390
33	# 4 1/2	8	46 1/4	438
36	# 5	8	50 1/4	486

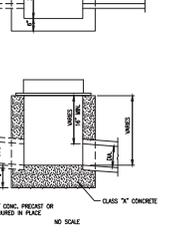
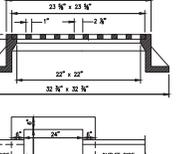
STORM SEWER MANHOLE FRAME & COVER

STANDARD MANHOLE FOR PIPE SIZES 12" THROUGH 24" (MH)

STORM STRUCTURE CONCRETE COLLAR (CC)



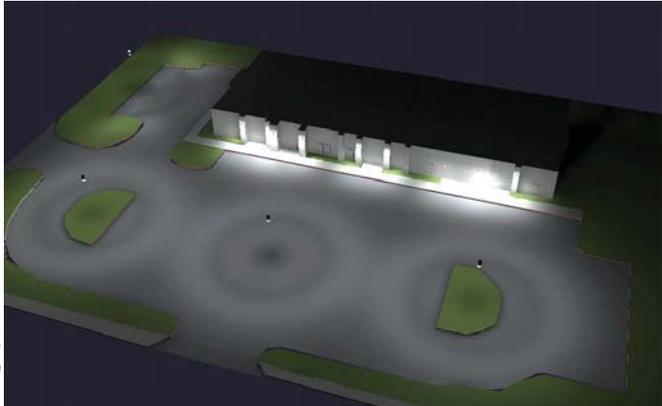
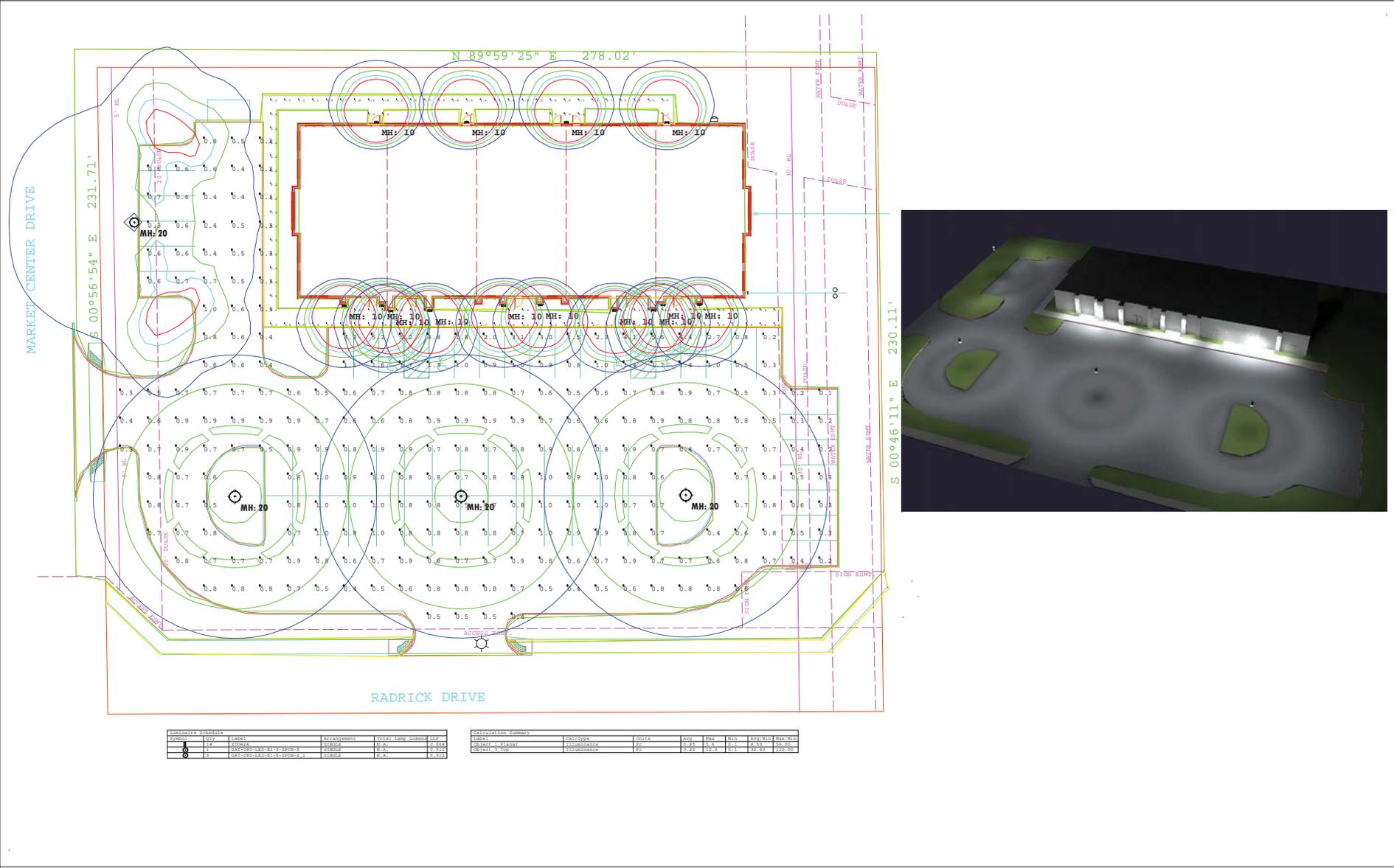
NERNAH 3405 (N3405)



INLET TYPE 'A' (MA)

Project Number: 2016-153
Sheet No.: C3.2 (SEWER DETAILS)

Horizontal Civil Engineering & Land Surveying, LLC
317-536-6181
317-536-6229
8902 Albeck Ct.
Indianapolis, IN 46256



Component	Quantity	Notes	Total Lamp Lumens	SP
1	20	20000	400000	0.144
2	10	10000	100000	0.122
3	1	10000	10000	0.122

Component	Quantity	Notes	Min	Max	SP	Footcandle	Max Footcandle
1	20	20000	0.30	0.5	0.1	0.80	0.80
2	10	10000	0.30	0.5	0.1	0.80	0.80
3	1	10000	0.30	0.5	0.1	0.80	0.80

NOTES:
 (1) Layouts are produced using AGI32 software. Technicians have been trained and certified by Light Analysts- Littleton, Colorado.
 (2) It is understood that specification, performance and distribution vary widely among products. The indicated photometric values are for products listed on this document. Any variance during installation or product could cause light levels to shift.
 (3) Photometric information and IES files are provided by individual manufacturers. Specified Lighting utilizes standard practices to input these manufacturer provided files into AGI software.
 (4) Specified Lighting takes no responsibility in the verification of pre-existing conditions. We will use input values to best represent field conditions. However, due to construction methods, design changes and/ or finish options reflectance values can be altered. It should be understood that these properties can effect the final outcome of light levels.
 (5) This layout was produced using documents and information provided by others. Specified Lighting takes no responsibility in deeming this information reliable.
 (6) SLS is not responsible for field verification or input of environmental criteria on designs that require open or exposed ceiling decks. Photometric studies may be skewed due to unknown ceiling conditions, HVAC components and structural elements.
 Final light levels can not be guaranteed under these parameters.



SPECIFIED LIGHTING SYSTEMS
 8904 BASH ST, SUITE B
 INDIANAPOLIS, IN 46256
 (P) 317-577-8100
 (F) 317-577-8101

#	Date	Comments

Revisions

Drawn By:
 Checked By:
 Date: 7/7/2016
 Scale:

DR GILMORE
CITY, STATE ZIP CODE

DESCRIPTION

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

SPECIFICATION FEATURES

Construction

Slim, low-profile LED design with rugged one-piece, die-cast aluminum hinged removable door and back box. Matching housing styles incorporate both a small and large design. The small housing is available in 7W and 18W. The large housing is available in the 26W model. Patent pending secure lock hinge feature allows for safe and easy tool-less electrical connections with the supplied push-in connectors. Back box includes three (3) half-inch, NPT threaded conduit entry points. The universal back box supports both the small and large forms and mounts to standard 3-1/2" to 4" round and octagonal, 4" square, single gang and masonry junction boxes. Key hole gasket allows for adaptation to junction box or wall. External fin design extracts heat from the fixture surface. One-piece silicone gasket seals door and back box. Minimum 5" wide pole for site lighting application. Not recommended for car wash applications.

Optical

Silicone sealed optical LED chamber incorporates a custom engineered mirrored anodized reflector providing high-efficiency illumination. Optical assembly includes impact-resistant tempered glass and meets IESNA requirements for full cutoff compliance. Solid state LED Crosstour luminaires are thermally optimized with five (5) lumen packages in cool 5000K or neutral warm 3500K LED color temperature (CCT).

Electrical

LED driver is mounted to the die-cast housing for optimal heat sinking. LED thermal management system incorporates both conduction and natural convection to transfer heat rapidly away from the LED source. 7W models operate in -40°C to 40°C [-40°F to 104°F]. 18W and 26W models operate in -40°C to 40°C [-40°F to 104°F]. High ambient 50°C models available. Crosstour luminaires maintain greater than 90% of initial

Catalog #		Type
Project		
Comments		Date
Prepared by		

light output after 72,000 hours of operation. Three (3) half-inch NPT threaded conduit entry points allow for thru-branch wiring. Back box is an authorized electrical wiring compartment. Integral LED electronic driver incorporates surge protection. 120-277V 50/60Hz or 347V 60Hz models.

Finish

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

Warranty

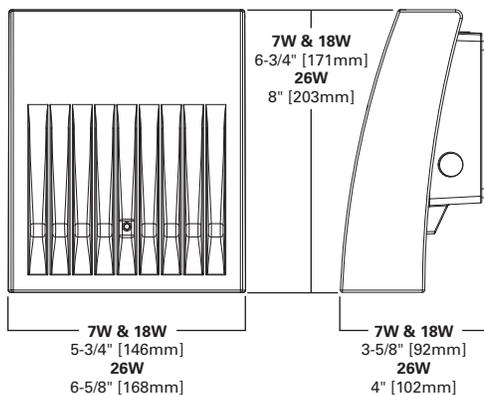
Five-year warranty.



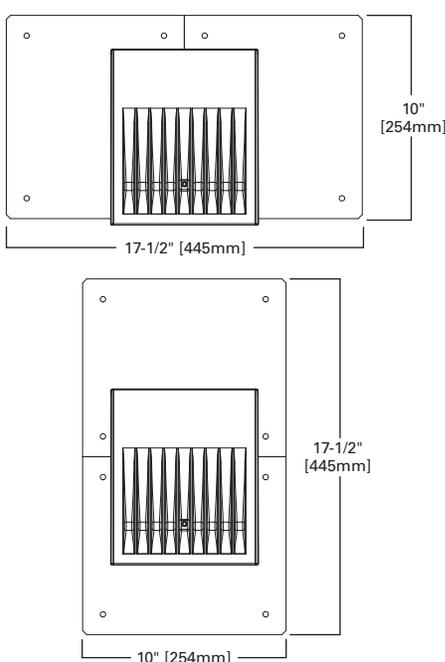
XTOR CROSSTOUR LED

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

DIMENSIONS



ESCUTCHEON PLATES



CERTIFICATION DATA

UL/cUL Wet Location Listed
LM79 / LM80 Compliant
ROHS Compliant
ADA Compliant
NOM Compliant Models
IP66 Ingressed Protection Rated
Title 24 Compliant
DesignLights Consortium® Qualified*

TECHNICAL DATA

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

EPA

Effective Projected Area (Sq. Ft.):
XTOR1A/XTOR2A=0.34
XTOR3A=0.45

SHIPPING DATA:

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

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (72,000 Hours)	Theoretical L70 (Hours)
XTOR1A Model		
25°C	> 92%	> 290,000
40°C	> 92%	> 290,000
50°C	> 91%	> 270,000
XTOR2A Model		
25°C	> 91%	> 270,000
40°C	> 90%	> 260,000
50°C	> 88%	> 225,000
XTOR3A Model		
25°C	> 91%	> 280,000
40°C	> 91%	> 270,000
50°C	> 89%	> 240,000

LUMENS - CRI/CCT TABLE

LED Information	XTOR1A	XTOR2A	XTOR2A-N	XTOR3A	XTOR3A-N
Delivered Lumens (Wall Mount)	722	1,633	1,523	2,804	2,284
Delivered Lumens (With Flood Accessory Kit) ¹	468	1,060	978	2,168	1,738
B.U.G. Rating ²	B0-U0-G0	B1-U0-G0	B1-U0-G0	B1-U0-G0	B1-U0-G0
CCT (Kelvin)	5,000	5,000	3,500	5,000	3,500
CRI (Color Rendering Index)	65	65	70	65	70
Power Consumption (Watts)	7W	18W	18W	26W	26W

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

CURRENT DRAW

Voltage	Model Series		
	XTOR1A	XTOR2A	XTOR3A
120V	0.05A	0.15A	0.22A
208V	0.03A	0.08A	0.13A
240V	0.03A	0.07A	0.11A
277V	0.03A	0.06A	0.10A
347V	0.025A	0.058A	0.082A

ORDERING INFORMATION

Sample Number: XTOR2A-N-WT-PC1

Series ¹	LED Kelvin Color	Housing Color	Options (Add as Suffix)	Accessories (Order Separately)
XTOR1A=Small Door, 7W XTOR2A=Small Door, 18W XTOR3A=Small Door, 26W	[Blank]=Bright White (Standard) 5000K N=Neutral Warm White, 3500K ²	[Blank]=Carbon Bronze (Standard) WT=Summit White	PC1=Photocontrol 120V ³ PC2=Photocontrol 208-277V ^{3,4} 347V=347V ⁵ HA=50°C High Ambient ⁵	WG/XTOR=Wire Guard ⁶ XTORFLD-KNC=Knuckle Floodlight Kit ⁷ XTORFLD-TRN=Trunnion Floodlight Kit ⁷ XTORFLD-KNC-WT=Knuckle Floodlight Kit, Summit White ⁷ XTORFLD-TRN-WT=Trunnion Floodlight Kit, Summit White ⁷ EWP/XTOR=Escutcheon Wall Plate, Carbon Bronze EWP/XTOR-WT=Escutcheon Wall Plate, Summit White

NOTES: 1 DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details. 2 XTOR1A not available in 3500K. 3 Photocontrols are factory installed. 4 Order PC2 for 347V models. 5 Thru-branch wiring not available with HA option or with 347V. 6 Wire guard for wall/surface mount. Not for use with floodlight kit accessory. 7 Floodlight kit accessory supplied with knuckle (KNC) or trunnion (TRN) base, small and large top visors and small and large impact shields.

STOCK ORDERING INFORMATION

7W Series	18W Series	26W Series
XTOR1A=7W, 5000K, Carbon Bronze	XTOR2A=18W, 5000K, Carbon Bronze	XTOR3A=26W, 5000K, Carbon Bronze
XTOR1A-WT=7W, 5000K, Summit White	XTOR2A-N=18W, 3500K, Carbon Bronze	XTOR3A-N=26W, 3500K, Carbon Bronze
XTOR1A-PC1=7W, 5000K, 120V PC, Carbon Bronze	XTOR2A-WT=18W, Summit White	XTOR3A-WT=26W, Summit White
	XTOR2A-PC1=18W, 120V PC, Carbon Bronze	XTOR3A-PC1=26W, 120V PC, Carbon Bronze

5-DAY QUICK SHIP ORDERING INFORMATION

7W Series	18W Series	26W Series
XTOR1A-WT-PC1=7W, 5000K, Summit White, 120V PC	XTOR2A-PC2=18W, 5000K, 208-277V PC, Carbon Bronze	XTOR3A-PC2=26W, 5000K, 208-277V PC, Carbon Bronze
	XTOR2A-WT-PC1=18W, 5000K, Summit White, 120V PC	XTOR3A-WT-PC1=26W, 5000K, Summit White, 120V PC
	XTOR2A-WT-PC2=18W, 5000K, Summit White, 208-277V PC	XTOR3A-WT-PC2=26W, 5000K, Summit White, 208-277V PC
	XTOR2A-N-WT=18W, 3500K, Summit White	XTOR3A-N-WT=26W, 3500K, Summit White
	XTOR2A-N-PC1=18W, 3500K, 120V PC, Carbon Bronze	XTOR3A-N-PC1=26W, 3500K, 120V PC, Carbon Bronze
	XTOR2A-N-PC2=18W, 3500K, 208-277V PC, Carbon Bronze	XTOR3A-N-PC2=26W, 3500K, 208-277V PC, Carbon Bronze
	XTOR2A-N-WHT-PC1=18W, 3500K, Summit White, 120V PC	XTOR3A-N-WHT-PC1=26W, 3500K, Summit White, 120V PC
	XTOR2A-N-WT-PC2=18W, 3500K, Summit White, 208-277V PC	XTOR3A-N-WT-PC2=26W, 3500K, Summit White, 208-277V PC

DESCRIPTION

The GAT Generation Series Avenue LED provides an updated styling and smooth exterior appearance, making it the perfect choice to add a contemporary feel to any setting. Its superior photometrics offer excellent illumination and uniformity for many of today's applications. Its styling blends well in many settings – historic districts, downtown streetscapes, roadways, residential neighborhoods, as well as city parks and educational campuses. The Generation Series LED sets a new standard for decorative post top luminaires.

Catalog #		Type	
Project			
Comments		Date	
Prepared by			

SPECIFICATION FEATURES

Construction

HOUSING: Heavy-duty cast aluminum housing and removable door. A single quarter turn fastener on the removable door provides tool-less access to wiring compartment. **CAGE ASSEMBLY** Cage assembly manufactured of heavy-duty cast aluminum and mounted to the exterior of the base housing via four stainless steel fasteners. Finished to match housing. **TOPS AND FINIALS:** Avenue top is heavy-duty spun aluminum offering top access for tool-less entrance into the source compartment during maintenance. Choose from four cast aluminum finials for customized fixture style. **TWISTLOCK GLOBE:** The optional twistlock assembly offers ease of maintenance through instant access to both the LED and wiring compartment by twisting the top refractor assembly and lifting it from the mating lock plate

Optical

REFRACTIVE GLOBE: High efficiency refractive optical systems are precisely designed utilizing a combination of refractive and reflective prisms. Available in Type III or Type V distributions. Lighting grade acrylic ensures long lasting optical clarity and resistance to discoloration.

Electrical

120-277V 50/60Hz operation. 10kV /10kA common- and differential mode surge protection standard. Thermal management transfers heat rapidly away from the LED source for optimal efficiency and light output. Ambient operating temperature from -40°C to 40°C. Standard three-position tunnel type compression terminal block.

Mounting

Base casting slipfits over a standard 3" O.D. tenon and secured via four stainless steel allen head fasteners. 3G vibration tested.

Finish

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

Warranty

Five-year warranty.

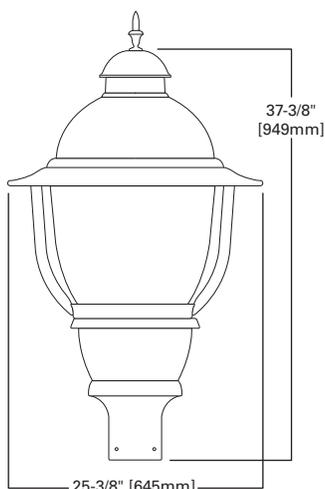


GAT GENERATION SERIES AVENUE LED

LED

DECORATIVE POST TOP
LUMINAIRE

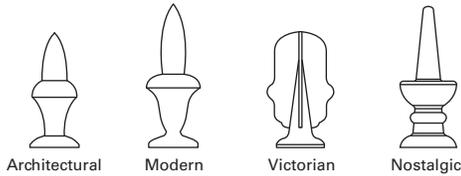
DIMENSIONS



EPA
Effective Projected Area: (Sq. Ft.)
2.1

SHIPPING DATA
Approximate Net Weight:
50 lbs. (23 kgs.)

FINIALS



POWER AND LUMENS

Distribution	Correlated Color Temperature (CCT)	Cage	Total Lumens (Estimated)	Luminaire Wattage (Nominal)
Type III	4000K	Avenue	5,200	99W
Type III	4000K	None	8,000	99W
Type V	4000K	Avenue	5,500	99W
Type V	4000K	None	8,500	99W

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (36,000 Hours)	Theoretical L70 (Hours)
15°C	>93%	240,000
25°C	>92%	210,000
40°C	>89%	117,000

ORDERING INFORMATION

Sample Number: GAT-080-LED-E1-3-UUA-BK

Product Family ¹	LED Series	Lamp Type	Voltage	Refractor Type	Top Type ²	Cage Type ²	Finial Type ²	Color ³
GAT=Architectural Base	080=080 Series	LED=Solid State Light Emitting Diodes	E1=Electronic (120-277V)	3=Type III 5=Type V	U=Avenue	C=Classical U=Avenue X=None	A=Architectural M=Modern N=Nostalgic V=Victorian X=None	AP=Grey BZ=Bronze BK=Black GN=Hartford Green WH=White DP=Dark Platinum GM=Graphite Metallic
Options (Add as Suffix)		Accessories (Order Separately)						
P=Polycarbonate Refractor R=NEMA Twistlock Photocontrol Receptacle D=Downlight Reflector HA=50°C High Ambient Temperature Rating 2L=Two Circuits SH=Street Side/House Side Switching Capable		MA1252=10kV Circuit Module Replacement GLR-080-E1=080 Series LED Replacement Module with 120-277V Universal Driver GLR-080-E1-2L=080 Series LED Replacement Module with 120-277V Universal Driver and Bi-Level Switching Capable GLR-080-E1-SH=080 Series LED Replacement Module with 120-277V Universal Driver and Street Side/House Side Switching Capable						

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.
- Painted to match base.
- Other finish colors available, including a full line of RAL color matches. Consult your lighting representative at Eaton for more information.

Radrick Professional Building

Narrative Statement

This project is a ten thousand square foot (10,000 s.f.) professional office building to be constructed on a 1.47 acre parcel on the northwest corner of Radrick Drive and Gray Road. The parcel is located approximately one quarter mile north of a major intersection at 146th Street and Gray Road. It is within the Bridgewater Planned Unit Development. It is the intention of the owner to comply with all of the requirements set forth in the PUD including building use, construction and landscaping.

The structure will be one story, built of standard wood framing construction with a wood trussed, sloping roof. It will be a rectangular shape, roughly one hundred sixty feet long and sixty two feet deep. (160'x 62') The exterior will be all masonry, a combination of mostly red brick with stone accents around some of the building offsets. The roof will be a commercial grade asphalt type shingle. This type of construction will compliment the surrounding residential apartment construction and low-rise commercial areas.

With technically three front yard areas, an abundance of landscaping is required and will be provided to enhance the streetscape and buffer the parking areas. A landscape buffer yard is required to the adjacent apartment structures which will be built to the north.