

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-ls.com
Ph. 317-536-6181
8902 Alibeck 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

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LOT 3 BRIDGEWATER MARKETPLACE

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2728 E. 171st Street
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TITLE SHEET

FINAL CONSTRUCTION PLANS

Plan Date: June 16th, 2016



PROJECT NARRATIVE

Project Description
These plans constitute Civil-Site Plans 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):	40,805 sft.
Building Area:	10,000 sft.
Area of Site Disturbance:	1.28 ac.
Total Parking Spaces Provided (incl. ADA):	57
Number of ADA Spaces Provided:	4
12" RCP Storm Sewer:	214 lft.
No. Precast Modified A Inlets:	2
No. 48" Storm Manholes:	1
6" SDR 26 Sewer Lateral:	50 lft.

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 18057C0140F effective date, February 19th, 2003.

Permit Requirements
It is the contractor's responsibility to ensure 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.

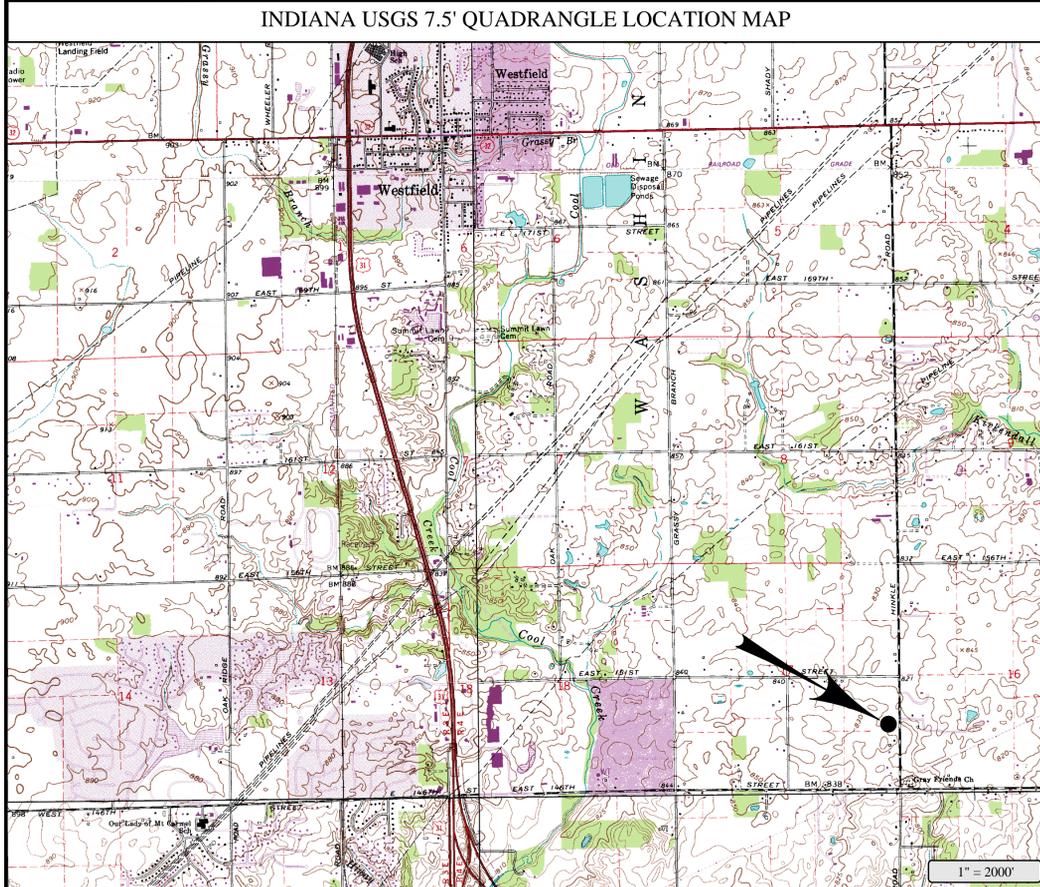
INDEX

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
IDEM SANITARY MAIN EXTENSION	NOT APPLICABLE
IDEM WATER MAIN EXTENSION	NOT APPLICABLE
IDEM RULE 5 NOI	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.



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	317-804-3200 17535 Dartown Road Westfield, Indiana 46074
Fire	Garry Harling 317-804-3307 17535 Dartown Road Westfield, Indiana 46074
Westfield Public Works	Jeremy Lollar / Phil Sundling 317-804-3100 2706 E. 171st Street Westfield, Indiana 46074
Westfield Pre-Construction	John Rankin 317-804-3147 2706 E. 171st Street Westfield, Indiana 46074
Westfield Stormwater	Mike Morgan / Wes Rood 317-804-3100 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 Resa 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 5858 North College Avenue Indianapolis, Indiana 46220

REVISION BLOCK

NOTE	DESCRIPTION	DATE
1	REV. PER TAC REVIEW: STORM DRAINAGE	6-16-16

INDIANA UNDERGROUND



Call At Least 2
Full Working
Days Before You
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PLANT
PROTECTION SERVICE
1-800-382-5544

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Fax: 317-536-6220
8902 Alibeck Ct.
Indianapolis, IN 46256

Project Number:

2016-153

Sheet No. :

C1.0 (TITLE SHEET)

**RADRICK PROFESSIONAL BUILDING
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SITE PLAN

FINAL CONSTRUCTION PLANS

Plan Date: June 16th, 2016



PLAN NOTES

- | NOTE | DETAIL/SHT. | DESCRIPTION |
|------|-------------|---|
| 1. | | RELOCATE STREET LIGHT TO INDICATED LOCATION. |
| 2. | | REMOVE EXISTING SIDEWALK AND CURB FOR NEW DRIVEWAYS. |
| 3. | SA/C3.1 | PAVE EXISTING DRIVES AND PARKING LOTS WITH STANDARD ASPHALT SECTION. |
| 4. | CD/EC/C3.1 | CONSTRUCT STAND OR EXTRUDED TYPE CURB. SEE CITY OF FISHERS DETAILS SHEET 9 FOR STAND CURB DETAILS. |
| 5. | MWC/C3.1 | CONSTRUCT MONOLITHIC SIDEWALK AND CURB. |
| 6. | RD/C3.1 | CONSTRUCT BUILDING RAMP WHERE INDICATED. |
| 7. | | CONSTRUCT DUMPSTER ENCLOSURE. SEE ARCHITECTURAL PLANS FOR DETAILS. |
| 8. | SW/C3.1 | CONSTRUCT SIDEWALK. |
| 9. | INDOT/C3.1 | CONSTRUCT SIDEWALK RAMP WITH TRUNCATED DOMES. |
| 10. | HC/C3.1 | STRIPED HANDICAPP PARKING SPACE. |
| 11. | | STRIPED PARKING SPACES WITH 4" WIDE WHITE PARKING STRIPES. |
| 12. | | CONSTRUCT 1-1/2" WATER SERVICE WITH DUAL WATER METERS AT PROPERTY LINE AND BUILDING VALVE AT BUILDING FACE. COORDINATE SERVICE WITH WATER SERVICE PROVIDER. |
| 13. | | CONSTRUCT 6" SEWER LATERAL AND BUILDING CLEANOUT TO CITY OF WESTFIELD SPECIFICATIONS. SEE GRADING PLAN FOR TOP OF CASTING AND PIPE INVERT ELEVATIONS. |
| 14. | | CONSTRUCT STORM SEWER TO CITY OF WESTFIELD STANDARDS. SEE GRADING PLAN FOR INVERT AND TOP OF CASTING 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. |

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Project Number:

2016-153

Sheet No. :

C2.0 (SITE PLAN)

GENERAL NOTES

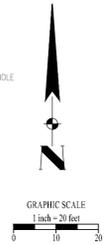
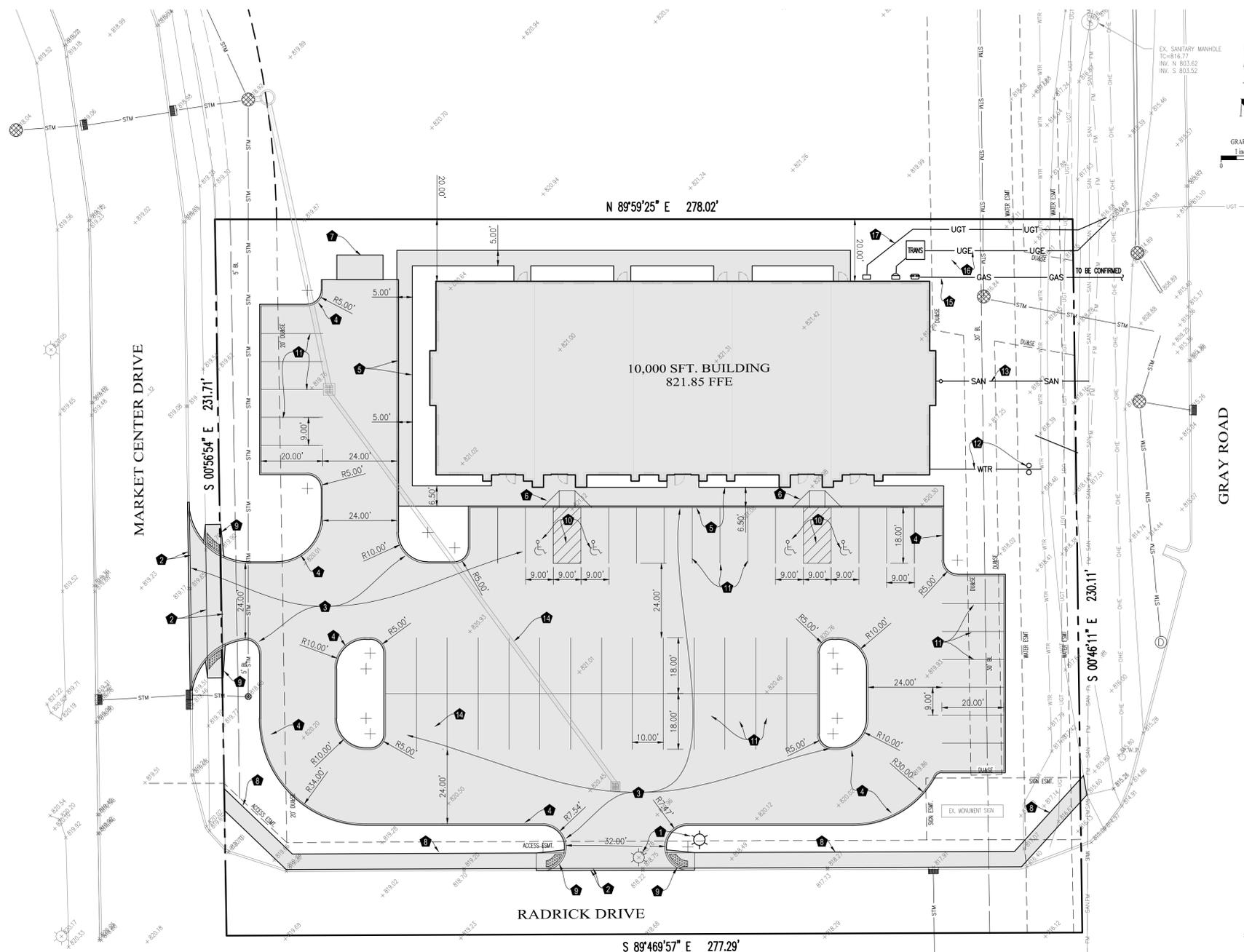
- THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT PROVISIONS OF THE MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION ISSUED BY AGC OF AMERICA AND THE SAFETY AND HEALTH REGULATIONS OF CONSTRUCTION ISSUED BY THE U.S. DEPARTMENT OF LABOR.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS NECESSARY TO COMPLETE ALL WORK SHOWN ON THESE PLANS.
- 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.
- 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.
- THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NECESSARY TO PROVIDE A SMOOTH VERTICAL AND HORIZONTAL TRANSITION BETWEEN EXISTING AND PROPOSED PAVEMENTS.
- ALL SITE CONSTRUCTION MATERIALS, AND FEATURES (I.E. CURBS, WALKS, PAVING, CONCRETE, STORM DRAINAGE FEATURES, SEEDING, SODDING, EARTHWORK, ETC.) SHALL BE IN ACCORDANCE WITH ALL CITY AND STATE STANDARDS AND SPECIFICATIONS.
- 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.
- ROADWAY DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
- ALL CURB RADII ARE 3.0 FEET UNLESS OTHERWISE SPECIFIED.
- CONTACT THE PROJECT ENGINEER FOR AN ELECTRONIC FILE CONTAINING COORDINATE GEOMETRY OF THE PROPOSED DEVELOPMENT.
- CONFIRM ALL BUILDING DIMENSIONS WITH THE ARCHITECTURAL PLANS. HOLD ALL BUILDING DIMENSIONS SHOWN ON THE ARCHITECTURAL PLANS.

LEGEND

- | | |
|------------------------------|---|
| Chain Link Fence | Electric Meter |
| Board Fence | Water Meter |
| Open Wire Fence | Telephone Junction Box |
| Iron Fence | Electric Junction Box |
| O.H.U. Overhead Utility Line | Ballard |
| 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 Filter Cap |
| Telephone Pedestal | Fuel Tank Lid |
| Telephone Manhole | Monitoring Well |
| Clean Out | Soil Boring Hole |
| Inlet | Lot Number |
| Storm Manhole | R/W Right of Way |
| Utility Pole | RCP Reinforced Concrete Pipe |
| Utility Pole w/ light | CMP Corrugated Metal Pipe |
| Utility Pole w/ trans. | CPP Corrugated Plastic Pipe |
| Sign | VCP Vitrified Clay Pipe |
| Light Standard | (P) Plat Dimension |
| Gas Valve | (M) Measured Dimension |
| Fire Hydrant | (D) Deed Dimension |
| Air Conditioner | (C) Calculated Dimension |
| Gas Meter | Fire Protection Valve |
| Water Valve | Post Indicator Valve |
| Sprinkler Control Valve | B.L. Building Line (per plat) |
| Stand Pipe | U.E. Utility Easement (per plat) |
| Fiber Optic Marker | Iron Pin Set (5/8" Rebar w/
red cap marked "Firm #0066") |
| Gas Line Marker | Mag Nail Set / Found |
| Sanitary Manhole | 5/8" Rebar found |
| Guy Wire | Cut "X" Set / Found |
| Curb Inlet | Existing Contour |
| Mailbox | Existing Spot Elevation |
| Electric Transformer | Finished Floor Elevation |
| Cable Pedestal | |
| Flag Pole | |

REVISION BLOCK

NOTE	DESCRIPTION	DATE
1	REV. PER. FOR STORM DRAINAGE	6-16-16



Bordenet Civil Engineering & Land Surveying, LLC - 8902 Alibek Ct., Indianapolis, IN 46256 - Ph. 317-536-6181 - Fax 317-536-6220 - Site Plan v11.3.dwg - Jun. 16, 2016, 2:00:09 pm

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.

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F. ALL SITE CONSTRUCTION, MATERIALS, AND FEATURES (I.E. CURBS, WALKS, PAVING, CONCRETE, STORM DRAINAGE FEATURES, SEEDING, SODDING, EARTHWORK, ETC.) SHALL BE IN ACCORDANCE WITH ALL CITY AND STATE STANDARDS AND SPECIFICATIONS.

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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.

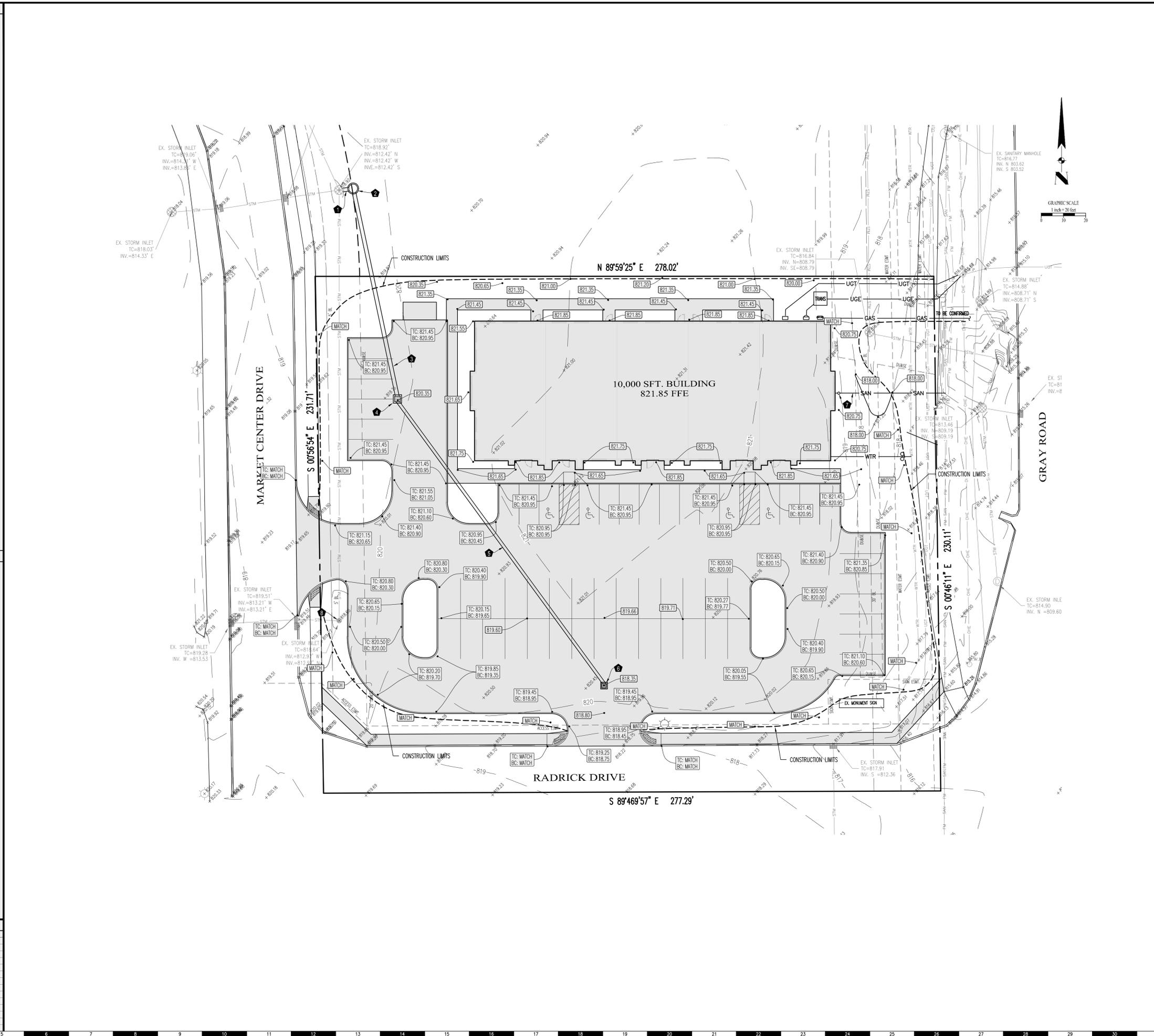
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LEGEND

—○— Chain Link Fence	⊕ Electric Meter
—○— Board Fence	⊕ Water Meter
—○— Open Wire Fence	⊕ Telephone Junction Box
—○— Iron Fence	⊕ Electric Junction Box
—○— OHU Overhead Utility Line	⊕ Ballast
—○— 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 Filter Cap
⊕ Telephone Pedestal	⊕ Fuel Tank lid
⊕ Telephone Manhole	⊕ Monitoring Well
⊕ Clean Out	⊕ Soil Boring Hole
⊕ Inlet	⊕ Lot Number
⊕ Storm Manhole	⊕ R/W Right of Way
⊕ Utility Pole	⊕ RCP Reinforced Concrete Pipe
⊕ Utility Pole w/ light	⊕ CMP Corrugated Metal Pipe
⊕ Utility Pole w/ trans.	⊕ CPP Corrugated Plastic Pipe
⊕ Sign	⊕ VCP Vitrified Clay Pipe
⊕ Light Standard	⊕ (P) Plat Dimension
⊕ Gas Valve	⊕ (M) Measured Dimension
⊕ Fire Hydrant	⊕ (D) Dead Dimension
⊕ Air Conditioner	⊕ (C) Calculated Dimension
⊕ Gas Meter	⊕ Fire Protection Valve
⊕ Water Valve	⊕ Post Indicator Valve
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⊕ Fiber Optic Marker	⊕ Iron Pin Set (5/8" Rebar w/ red cap marked "Firm #0068")
⊕ Gas Line Marker	⊕ Mag Nail Set / Found
⊕ Sanitary Manhole	⊕ 5/8" Rebar found
⊕ Guy Wire	⊕ Cut "X" Set / Found
⊕ Curb Inlet	⊕ Existing Contour
⊕ Mailbox	⊕ Existing Spot Elevation
⊕ Electric Transformer	⊕ Finished Floor Elevation
⊕ Cable Pedestal	
⊕ Flag Pole	

REVISION BLOCK

NOTE	DESCRIPTION	DATE
1	REV. PER TAC REVIEW: STORM DRAINAGE	6-16-16



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GRADING PLAN

FINAL CONSTRUCTION PLANS

Plan Date: June 16th, 2016

REGISTERED PROFESSIONAL ENGINEER
No. 19900113
STATE OF INDIANA
Bordenet

PLAN NOTES

NOTE	DETAIL/SHT.	DESCRIPTION
1.	CP/C3.2	CONSTRUCT 4 LFT OF 15" RCP AT 0.7% INVERT DN: 812.62; INVERT UP: 812.65.
2.	MH/C3.2	SET TYPE 48" MANHOLE. TOP OF CAST 819.50.
3.	CP/C3.2	CONSTRUCT 93 LFT OF 15" RCP AT 0.7% INVERT DN: 812.75; INVERT UP: 813.40.
4.	MA/C3.2	SET MODIFIED A INLET WITH NEENAH R3405 CASTING AND CONCRETE COLLAR. SET CASTING AT 820.35.
5.	CP/C3.2	CONSTRUCT 156 LFT OF 12" RCP AT 1.0% INVERT DN: 813.50; INVERT UP: 815.06.
6.	MA/C3.2	SET MODIFIED A INLET WITH NEENAH R3405 CASTING AND CONCRETE COLLAR. SET CASTING AT 818.35.
7.	CO/SL/C3.2	CONSTRUCT 50 LFT OF 6" SANITARY LATERAL CONSTRUCTED AT MIN. 2% INVERT AT BUILDING FACE = 815.00. CONTRACTOR TO CONFIRM CONNECTION ELEVATION. SET TYPE 1 CLEANOUT AT BUILDING FACE WITH TC = 821.25
8.		ADJUST EXISTING CASTING TO TC=819.50

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

INDIANA UNDERGROUND

Call At Least 2 Full Working Days Before You Dig

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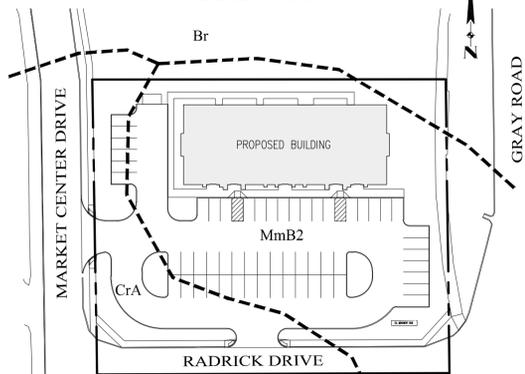
Sheet No.: C2.1 (GRADING PLAN)

Bordenet Civil Engineering & Land Surveying, LLC - 8902 Alibek Ct., Indianapolis, IN 46256 - Ph. 317-536-6181 - Fax 317-536-6220 - Site Plan v11.3.dwg - Jun. 16, 2016, 2:03:17 pm

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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



SYMBOL	NAME
Br	Brookston silty clay loam
CrA	Crosby Silt Loam, 0 to 3 percent slopes
MmB2	Miami silt loam, 2 to 6 percent slopes, eroded

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

LEGEND

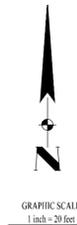
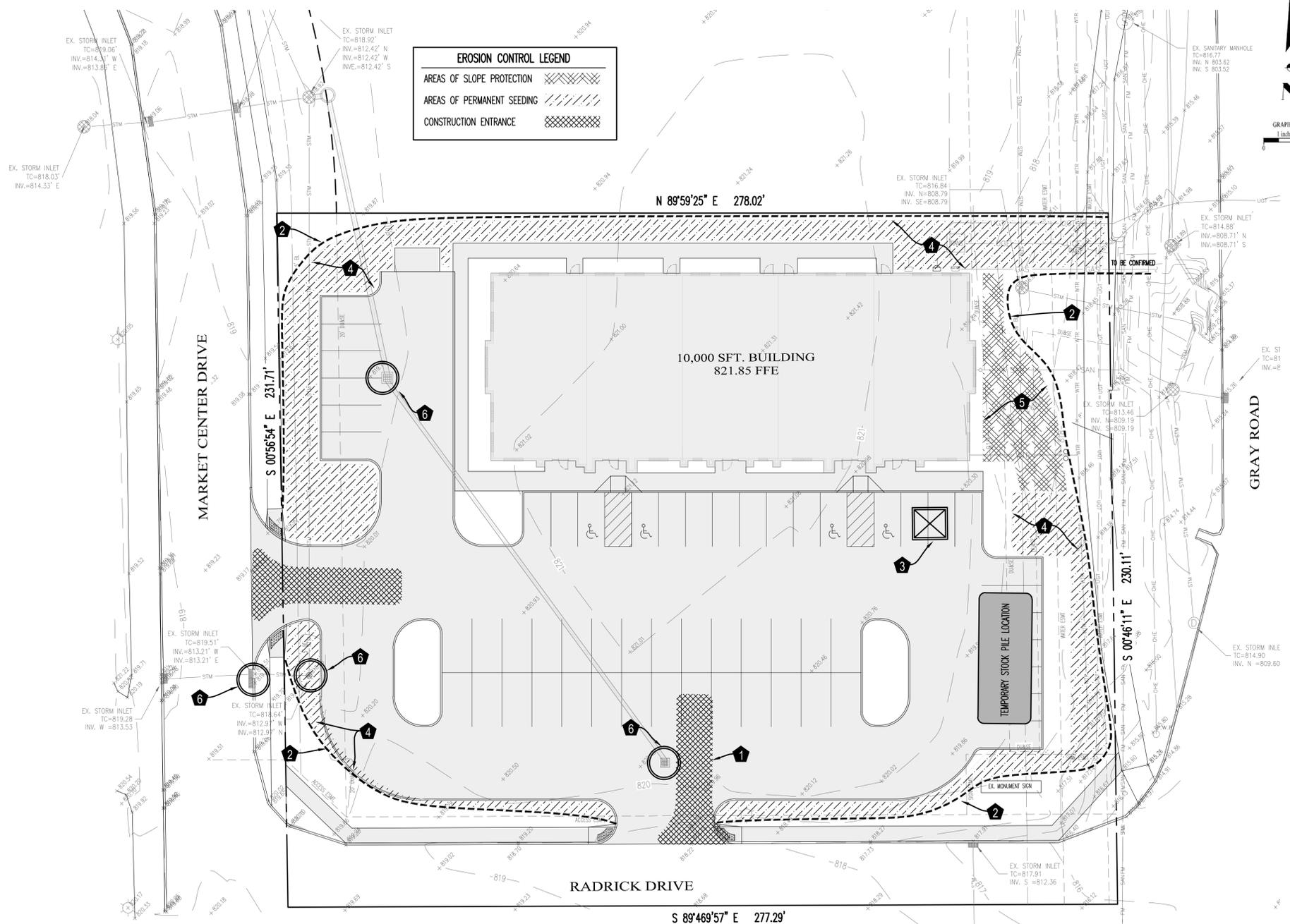
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Cable Pedestal	
Flag Pole	

REVISION BLOCK

NOTE	DESCRIPTION	DATE
1	REV. PER TAC REVIEW: STORM DRAINAGE	6-16-16

EROSION CONTROL LEGEND

- AREAS OF SLOPE PROTECTION
- AREAS OF PERMANENT SEEDING
- CONSTRUCTION ENTRANCE



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EROSION PLAN
FINAL CONSTRUCTION PLANS

Plan Date: June 16th, 2016

PLAN NOTES

NOTE	DETAIL/SHT.	DESCRIPTION
1.	C3.0	CONSTRUCT STABLE CONSTRUCTION ENTRANCE WHERE INDICATED.
2.	C3.0	PLACE SILT FENCE ON DOWNSLOPES WHERE INDICATED.
3.	C3.0	PLACE CONCRETE WASHOUT WHERE INDICATED.
4.	PS/C3.0	ALL DISTURBED YARD AREAS SHALL BE SEEDED (HATCHED AREA)
5.	C3.0	PROTECT INDICATED SLOPED AREAS (HATCHED AREA) WITH SLOPE PROTECTION.
6.	C3.0	INLETS SHALL HAVE DANDY-SACK (OR EQUIV.) PROTECTION.

INDIANA UNDERGROUND

Call At Least 2 Full Working Days Before You Dig

PLANT PROTECTION SERVICE
1-800-382-5544

Bordenet Civil Engineering & Land Surveying, LLC
Ph. 317-536-6220
8902 Alibek Ct.
Indianapolis, IN 46256

Project Number: 2016-153

Sheet No. : C2.2 (EROSION PLAN)

CONSTRUCTION/STORMWATER POLLUTION PLAN INDEX - ASSESSMENT OF CONSTRUCTION PLAN ELEMENTS

- A1 A plan index is shown on the cover sheet.
- A2 This development occurs over lot 3 of the Replat of Lots 2 & 3 Bridgewater Marketplace Section 3. A vicinity map showing this project's construction in relation to the parcel's boundary is shown on this sheet.
- A3 See the project narrative on the title sheet.
- A4 The project location map is located on the cover sheet of the construction plans.
- A5 Parts of the SE 1/4 of S17-118N-R4E, Latitude: 47007'6"N, Longitude: 860526"W.
- A6 This development occurs over a single lot. A vicinity map showing this project's construction in relation to the parcel's boundary is this sheet.
- A7 This site has HUC14 designation 0512020109000.
- A8 IDEM Rule 5 Permitting is required as a part of this project. There are no other State or Federal Water quality permits required as a part of this project.
- A9 Storm water leaves the site through an existing stormwater at the southwest corner of the proposed site. The proposed storm sewer empties into the existing storm sewer which runs northward and empties into the subdivision's detention pond. The pond outlets southward under Gray Road.
- A10 A detention pond is located at the northeast corner of this development's subdivision. See the previous note about location and direction of discharge.
- A11 All storm water leaves the subdivision's detention facility and is piped southward under Gray Road where it then enters the Mitchell Drain.
- A12 This site has no groundwater recharge.
- A13 See the project narrative on the cover sheet for all information regarding floodplain impact.
- A14 2 year Post Construction Estimate of Peak Discharge (Q=CA=0.78 x 4.63 x 1.47) = 4.77 cfs
- A15 10 year Post Construction Estimate of Peak Discharge (Q=CA=0.78 x 6.12 x 1.47) = 6.31 cfs
- A16 100 year Post Construction Estimate of Peak Discharge (Q=CA=0.78 x 9.12 x 1.47) = 9.40 cfs
- A17 The site is bounded on the west by Market Center Drive. The site is bounded on the east by Gray Road. The site is bounded on the north by apartments.
- A18 The location and dimensions of the land disturbance activity are shown on sheet C2.0 through C2.4. Approximately 1.28± acres will be disturbed on-site.
- A19 The existing site is undeveloped.
- A20 The site map is shown on this sheet.
- A21 The storm sewer and its dimensions are indicated on the grading sheet.
- A22 No off-site activity is associated with this project.
- A23 Soils from stripping and gravel from parking lot areas to be removed will be temporarily stored on this site. A location for this storage is located on the erosion control plan sheet. It may be moved as required for construction.
- A24 Spot grades indicating the existing site topography are shown on the grading sheet.
- A25 Final topography is shown on the grading sheet.

ASSESSMENT OF STORMWATER POLLUTION PREVENTION PLAN - CONSTRUCTION COMPONENT

- B1 Potential pollutants shown include exposed soils and leaking vehicles and equipment. The measures or operational activities that will be initiated to minimize the danger of pollutants entering stormwater are shown on this sheet.
- B2 Sequence describing stormwater quality measure implementation relative to land disturbing activities.
 1. Schedule pre-construction meeting with City of Westfield a minimum 48 hours before any construction commences.
 2. Notify IDEM, the Hamilton County Surveyor's Office, and the City of Westfield within 48 hours of starting construction.
 3. Post the NOI and contact information for the person onsite responsible for storm water pollution prevention.
 4. Designate the trained individual that will complete the weekly site evaluations.
 5. Call the Indiana Underground Plant Protection Systems, Inc. ("Hokey Wokey") at 1-800-382-5544 to check the location of any existing utilities. They should be notified two working days before construction takes place.
 6. Construct stabilized entrance.
 7. Install perimeter silt fence.
 8. Perform rough grading. All disturbed areas shall be permanent seed if left undisturbed for more than ten days.
 9. Begin building pad construction and storm sewer utility construction as shown on the site plan.
 10. Protect existing storm sewer. Install inlet protection as storm inlets are completed.
 11. Temporary seed all disturbed areas. Rule 5 and the City of Fishers Stormwater Management Ordinance requires that all disturbed areas that will potentially be idle for 15 days or more be stabilized (seeded, mulched, etc.) immediately.
 12. Complete building pads and final paving.
 13. Construct utility connections.
 14. Complete final grading.
 15. Complete final seeding.
 16. After the site is stabilized and over 70% ground coverage is obtained, the owner or the owner's representative shall submit an NOI (Notice of Termination) to the City of Fishers.
 17. Inspect erosion control measures weekly or following a storm event.
 18. Maintain all erosion and sediment control practices until all disturbed areas are permanently stabilized.
- B3 See the erosion control plan sheet for location of the construction entrance and see this sheet for details on the measures.
- B4 See the erosion control plan sheet for location of sheet flow sediment control measures and see this sheet for details on the measures.
- B5 See the erosion control plan sheet for location of concentrated sediment control measures and see this sheet for details on the measures.
- B6 See the erosion control plan sheet for location of inlet protection measures and see this sheet for details on the measures.
- B7 See the erosion control plan sheet for location of runoff control measures and see this sheet for details on the measures.
- B8 See the erosion control plan sheet for location of outlet protection and see this sheet for details on the measures.
- B9 See the erosion control plan sheet for location of grade stabilization structures and see this sheet for details on the measures.
- B10 See the erosion control plan sheet for the location of each storm water quality measure and see this sheet for details on the measures.
- B11 Temporary Seeding will be used for temporary surface stabilization. See seasonal soil protection chart on this sheet. ANY DISTURBED AREAS LEFT IDLE FOR 15 DAYS MUST BE TEMPORARILY SEEDED.
- B12 Landscaping and permanent seeding will be used for permanent surface stabilization.
- B13 Material handling and spill prevention plan: In order to minimize the release of potential pollutants during construction the Contractor shall implement this material handling and spill prevention plan. The Contractor shall review this plan with all subcontractors and require that they implement the plan as well. Possible materials on site include fueling, equipment repair or service, dewatering, dust control, paints and solvents, solid waste and concrete washout.

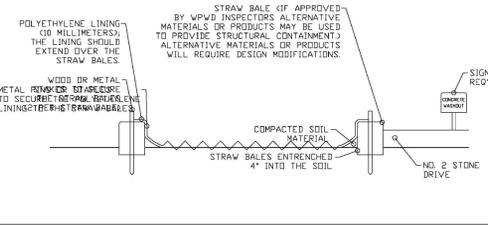
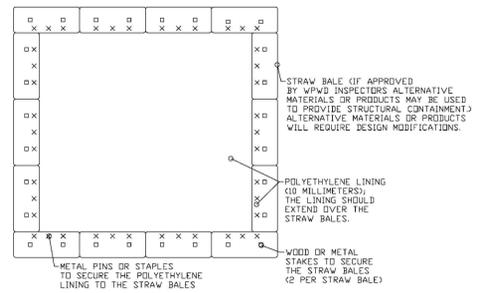
- C1 Construction Equipment
 - a. Fueling, lubrication and fluids: All operations involving the addition of fluids to equipment should be done in one location, so that spills are limited to one location on the site, which will facilitate the cleanup of spills. If an onsite fueling tank is planned to be on site, it shall be double walled and stored in this designated area. This location is an area that will not allow spilled fluids to migrate into subsurface soils. In the event of a spill, the fluid shall immediately be cleaned up by removing the contaminated soil or stone which shall be disposed of in an acceptable manner. Spills on hard surfaces shall be soaked up by an acceptable material such as Oil Dry and the absorbent material disposed of in a proper manner. The spill shall also be reported immediately to the Contractor's superintendent.
 - b. Equipment repair, especially when fluids must be removed from the equipment or the possibility of fluid spills is high, should always be done offsite of a facility that is more suitable than a construction site to handle spills. When equipment must be repaired onsite it should be moved to the maintenance and fueling area if possible. Otherwise, suitable site containers should be placed under the equipment during repair to catch any spilled fluids and these fluids should be disposed of in a proper manner.
 - c. All reusable fluid containers, such as gasoline cans, shall be inspected for leaks each time they are used. If leaks are found, the fluid shall be removed from the container in a proper manner and the container disposed of in an acceptable manner. Empty disposable containers, such as grease tubes and lubricating oil and brake fluid containers, and their packaging, shall be disposed of in a proper manner and shall not be left on the ground or in the open on the construction site.
- C2 Construction Materials and their Packaging
 - a. Erosion control measures shown on these plans shall be implemented prior to and during construction in the proper sequencing to minimize soil erosion. Erosion controls shall be inspected and maintained as described elsewhere in these plans. Excessive dusting of soil on the site shall be minimized by reducing construction traffic across bare soil during dry and/or windy weather, and by applying water or other acceptable dust control measures to the soil. Upon completion of construction and suitable establishment of permanent vegetation, temporary erosion control measures such as silt fence, check dams and inlet protection devices shall be removed in a manner to minimize additional land disturbance. Any areas disturbed by these operations shall be properly revegetated.
 - b. Large waste materials created by cutting, sawing, drilling, or other operations shall be properly disposed of in suitable onsite waste containers. The site shall be checked at the end of the day, as a minimum, and all waste materials, including those blown across or off the site by wind, shall be picked up and disposed of in suitable containers. Where possible, operations such as sawing that create small particles should be performed in one spot in an area protected from wind, and waste particles collected and disposed of frequently to minimize wind dispersal. Packaging used to transport materials to the site for construction of the facility shall be disposed of properly, whether the material is taken out of its package and incorporated into the project immediately or stored onsite for future use. Packaged materials stored onsite shall be inspected regularly and any loose packaging shall be repaired or disposed of properly.
 - c. All dewatering of activities shall be done in accordance to good erosion control practices. These practices should include the use of dirt bags such as Dandy Dirt Bags. The use of these types of dewatering devices will remove large quantities of silt, sediment and dirt and prevent these materials to enter the storm sewer system.
 - d. Nutrients and fertilizers shall only be used to establish rapid vegetation. When these products are utilized, the user should pay strict attention to the products recommended usage.
- C3 Concrete Waste Water
 - a. All concrete waste water shall be disposed of in the designated area. See concrete wash-out detail. This area shall be inspected on a daily basis as a minimum. When this area becomes full, the pollutants shall be excavated, placed in an acceptable container and disposed of in a proper manner.
- C4 Paint Products
 - a. All excess paint and their related products shall be disposed of in the manner in which the manufacturer suggests. Under NO circumstances will paint or their related products be cleaned or disposed of in soil, sanitary sewers, storm sewers, detention basins or burned. Any violation of this shall be reported to the job superintendent.

- Procedures for spills:
 1. Barricade the area allowing no vehicles to enter or leave the spill zone.
 2. Notify the City of Westfield Fire Department.
 3. Notify the Indiana Department of Environmental Management, Office of Emergency Response by calling (317) 233-7745 or (888) 233-7745.
 4. Notify the City of Westfield inspectors and Hamilton County Surveyor's Office.
 5. Notify waste recovery contractor, maintenance personnel or other personnel as necessary for cleanup.
 6. Coordinate and monitor cleanup until complete.
 7. Cooperate with the DEM-OR on procedures and reports involved with the event.
- B14 Maintenance guidelines are shown on the erosion control plan sheet and this sheet.
- B15 There are no other lots associated with this project. All construction occurs on a single parcel.

- C5 Stormwater Pollution Prevention Plan - Post Construction Component
 - C1 Potential pollutants on this site are oil, fuel, and other fluids from vehicles, trash, and vegetation control chemicals.
 - C2 There are no post construction BMP's on site. The subdivision's detention pond and outlet structure handles all necessary BMP requirements.
 - C3 There are no post construction BMP's on site. The subdivision's detention pond and outlet structure handles all necessary BMP requirements.
 - C4 There are no post construction BMP's on site. The subdivision's detention pond and outlet structure handles all necessary BMP requirements.
 - C5 Copies of all inspection and maintenance reports for all site BMP's must be sent to the City of Westfield inspectors.

- REVISION BLOCK

NOTE	DESCRIPTION	DATE
1	REV. PER TAC REVIEW: STORM DRAINAGE	2-26-10 6-16-10



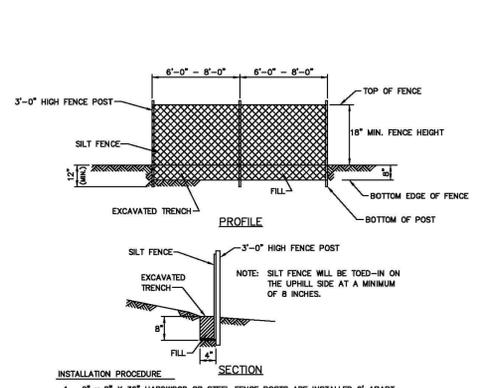
CONCRETE WASHOUT DETAIL

CITY OF WESTFIELD, INDIANA

No. 11300022 STATE OF INDIANA PROFESSIONAL ENGINEER

2/12/16 DATE

FIGURE EC-05



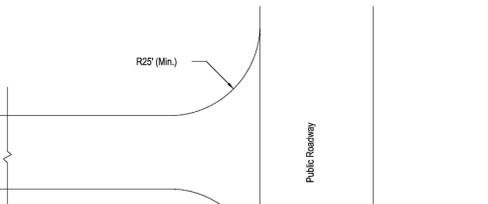
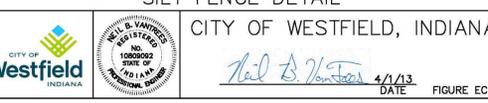
SILT FENCE DETAIL

CITY OF WESTFIELD, INDIANA

No. 10000022 STATE OF INDIANA PROFESSIONAL ENGINEER

4/1/13 DATE

FIGURE EC-4



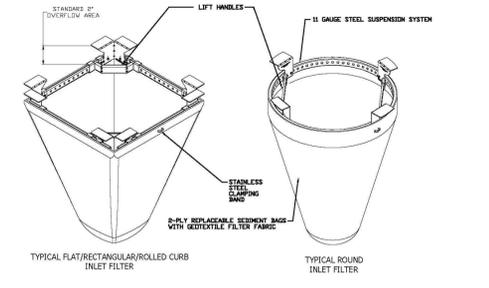
TEMPORARY CONSTRUCTION DRIVE

CITY OF WESTFIELD, INDIANA

No. 11300022 STATE OF INDIANA PROFESSIONAL ENGINEER

2/26/16 DATE

FIGURE EC-10



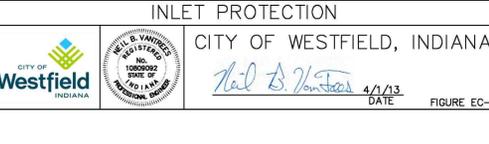
INLET PROTECTION

CITY OF WESTFIELD, INDIANA

No. 11300022 STATE OF INDIANA PROFESSIONAL ENGINEER

4/1/13 DATE

FIGURE EC-6



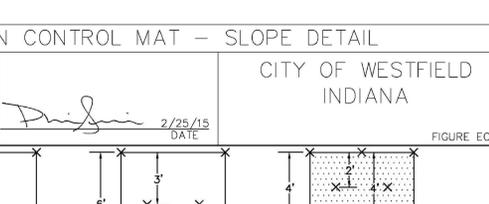
EROSION CONTROL MAT - SLOPE DETAIL

CITY OF WESTFIELD, INDIANA

No. 11300022 STATE OF INDIANA PROFESSIONAL ENGINEER

2/25/15 DATE

FIGURE EC-02



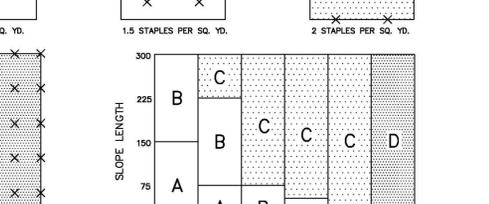
SILT FENCE DETAIL

CITY OF WESTFIELD, INDIANA

No. 10000022 STATE OF INDIANA PROFESSIONAL ENGINEER

4/1/13 DATE

FIGURE EC-4



EROSION CONTROL MAT - STAPLE GUIDE

CITY OF WESTFIELD, INDIANA

No. 10000022 STATE OF INDIANA PROFESSIONAL ENGINEER

4/1/14 DATE

FIGURE EC-3

PERMANENT SEEDING DETAILS (PS)

REQUIREMENTS

Site and seedbed preparation: Graded, and lime and fertilizer applied.

Plant species: Selected on the basis of soil type, soil pH, region of the state, time of year, and planned use of the area to be seeded.

Mulch: Clean grain straw, hay, wood fiber, etc., to protect seedbed and encourage plant growth. The mulch may need to be anchored to reduce removal by wind or water, or erosion control blankets may be considered.

APPLICATION

Permanently seed all final grade areas (e.g., landscape berms, drainage swales, erosion control structures, etc.) as each is completed and all areas where additional work is not scheduled for a period of more than a year.

Site Preparation:

- 1) Install practices needed to control erosion, sedimentation, and runoff prior to seeding. These include temporary and permanent diversions, sediment traps and basins, and silt fences, (refer to Indiana Handbook for Erosion Control in Developing Areas, Practices 3.21, 3.22, 3.72, 3.73, and 3.74).
- 2) Add topsoil to achieve needed depth for establishment of vegetation (refer to Indiana Handbook for Erosion Control in Developing Areas, Practice 3.102).
- 3) Grade the site and fill in depressions that can collect water.

Seeded Preparation:

- 1) Test soil to determine pH and nutrient levels. (Contact your county SWCD or Cooperative Extension office for assistance and site information, including available testing services.)
- 2) If soil pH is unsuitable for the species to be seeded, apply lime according to test recommendations.
- 3) Fertilize as recommended by the soil test. If testing was not done, consider applying 400-600 lbs./acre of 12-0-12 analysis, or equivalent, fertilizer. Do not use phosphorous containing fertilizer unless soil tests indicate a soil phosphorous deficiency.
- 4) Till the soil to obtain a uniform seedbed, working the fertilizer and lime into the soil 2-4 in. deep with a disk or roller operated across the slope.

Seeding:

Optimum seeding dates are Mar. 1-May 10 and Aug. 10-Sept. 30. Permanent seeding done between May 10 and Aug. 10 may need to be irrigated. As an alternative, use temporary seeding (refer to Indiana Handbook for Erosion Control in Developing Areas, Practice 3.11) until the preferred date for permanent seeding.

- 1) Based on site conditions, soil pH, intended land use, and expected level of maintenance, select a seeding mixture and note from the table below.
- 2) Apply seed uniformly with a drill or cultipacker-seeder or by broadcasting, and cover to a depth of 1/4-1/2 in.
- 3) If drilling or broadcasting, firm the seedbed with a roller or cultipacker.
- 4) Much all seeded areas (refer to Indiana Handbook for Erosion Control in Developing Areas, Practice 3.15). Consider using erosion control blankets on sloping areas (refer to Indiana Handbook for Erosion Control in Developing Areas, Practice 3.17). (NOTE: If seeding is done with a hydroseeder, fertilizer and mulch can be applied with the seed in a slurry mixture.)

This table provides several seeding options. Additional seed species and mixtures are available commercially. When selecting a mixture, consider site conditions, including soil properties (e.g., soil pH and drain age), slope aspect and the tolerance of each species to shade and droughtiness.

Seed species and mixtures	Rate per acre	Optimum soil pH
Open And Disturbed Areas (Remaining Idle More Than 1 Yr.)		
1. Perennial Ryegrass	35 to 50 lbs.	5.6 to 7.0
+ white or ladino clover*	1 to 2 lbs.	
2. Kentucky Bluegrass	20 lbs.	5.5 to 7.5
+ smooth or bromegrass	10 lbs.	
+ switch grass	3 lbs.	
+ timothy	4 lbs.	
+ perennial ryegrass	10 lbs.	
+ white or ladino clover**	1 to 2 lbs.	
3. Perennial Ryegrass	15 to 30 lbs.	5.6 to 7.0
+ tall fescue**	15 to 30 lbs.	
4. Tall Fescue**	35 to 50 lbs.	5.5 to 7.5
+ ladino or white clover*	1 to 2 lbs.	
Steep Banks And Cuts, Low Maintenance Areas (not Mowed)		
1. Smooth Bromegrass	20 to 35 lbs.	5.6 to 7.0
+ red clover*	10 to 20 lbs.	
2. Tall Fescue**	35 to 50 lbs.	5.6 to 7.0
+ white or ladino clover*	1 to 2 lbs.	
3. Tall Fescue**	35 to 50 lbs.	5.6 to 7.0
+ red clover*	10 to 20 lbs.	
4. Orchardgrass	20 to 30 lbs.	5.6 to 7.0
+ red clover*	10 to 20 lbs.	
+ ladino clover**	1 to 2 lbs.	
5. Perennial Ryegrass	10 to 12 lbs.	5.6 to 7.0
+ tall fescue**	20 to 30 lbs.	
Lawns And High Maintenance Areas		
1. Bluegrass	105 to 140 lbs.	5.5 to 7.0
2. Perennial Ryegrass	45 to 60 lbs.	5.6 to 7.0
+ bluegrass	70 to 90 lbs.	
3. Tall Fescue (turf-type)**	130 to 170 lbs.	5.6 to 7.5
+ bluegrass	20 to 30 lbs.	
Channels And Areas Of Concentrated Flow		
1. Perennial Ryegrass	100 to 150 lbs.	5.6 to 7.0
+ white or ladino clover*	1 to 2 lbs.	
2. Kentucky Bluegrass	20 lbs.	5.5 to 7.5
+ smooth or bromegrass	10 lbs.	
+ switch grass	3 lbs.	
+ timothy	4 lbs.	
+ perennial ryegrass	10 lbs.	
+ white or ladino clover*	1 to 2 lbs.	
3. Tall Fescue**	100 to 150 lbs.	5.5 to 7.5
+ ladino or white clover*	1 to 2 lbs.	
4. Tall Fescue**	100 to 150 lbs.	5.5 to 7.5
+ Perennial Ryegrass	15 to 20 lbs.	
+ Kentucky bluegrass	15 to 20 lbs.	

GENERAL NOTES

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER AND TOPSOIL AS REQUIRED BY THE CONTRACT DOCUMENTS.
2. BEGIN AT THE TOP OF THE CHANNEL, OR AT THE POINT WHERE THE BLANKETS ARE TO BE CONTACTED WITH THE CHANNEL.
3. INSTALL THE BLANKETS IN THE DIRECTION OF WATER FLOW ON BOTH ENDS OF CHANNEL.
4. PLACE BLANKETS OVER THE ENTIRE CHANNEL WITH A 2" OVERLAP. USE A DOUBLE ROW OF STAPLED STAPLES TO "ARM" TO SECURE BLANKETS TO CHANNEL.
5. BLANKETS MUST BE ANCHORED TO TOP OF CHANNEL WITH 3" X 3" WOOD STAPLES OR 1/2" X 3" GALVANIZED STEEL STAPLES. ANCHORS MUST BE PLACED AT 3' INTERVALS ALONG THE ENTIRE LENGTH OF CHANNEL. PLACE A SECOND ROW OF STAPLES OVER THE CENTER OF CHANNEL.
6. BLANKETS ON STEEP SLOPES MUST BE TIGHTENED OVER THE CENTER.
7. BLANKETS AND STAPLES TO BE RECOMMENDED FOR CHANNEL APPLICATIONS ARE RECOMMENDED AT 30 TO 40 FT. INTERVALS. USE A NEW STAPLE FOR EACH CHANNEL. PLACE A SECOND ROW OF STAPLES OVER THE CENTER OF CHANNEL.
8. THE TERMINAL END OF THE BLANKETS MUST BE TIGHTENED OVER THE CENTER OF CHANNEL. PLACE A SECOND ROW OF STAPLES OVER THE CENTER OF CHANNEL.
9. BLANKETS MUST BE NORTH AMERICAN GREEN STEEL OR STEEL OR GALVANIZED STEEL. WIRE FENCE INSTALLATION SHALL COMMENCE IMMEDIATELY FOLLOWING EROSION CONTROL MAT INSTALLATION.
10. EROSION CONTROL MAT SHALL BEGIN AND TERMINATE AT TOP OF BANK.

MAINTENANCE

- 1) Inspect periodically, especially after storm events, until the stand is successfully established. (Characteristics of a successful stand include vigorous dark green or bluish-green seedlings; uniform density with nurse plants, legumes, and grasses well intermixed; green leaves; and the perennials remaining green throughout the summer, at least at the plant base.)
- 2) Plan to add fertilizer the following growing season according to soil test recommendations.
- 3) Repair damaged, bare, or sparse areas by filling any gullies, re-fertilizing, over- or re-seeding, and mulching.
- 4) If plant cover is sparse or patchy, review the plant materials selection, soil fertility, moisture condition, and mulching; then repair the affected area either by over-seeding or by re-seeding and mulching after re-preparing the seedbed.
- 5) If vegetation fails to grow, consider soil testing to determine acidity or nutrient deficiency problems. (Contact your SWCD or Cooperative Extension office for assistance.)
- 6) If additional fertilization is needed to get a satisfactory stand, do so according to soil test recommendations.

STABILIZATION PRACTICE: JAN. FEB. MAR. APR. MAY JUNE JULY AUG. SEPT. OCT. NOV. DEC.

PERMANENT SEEDING

TEMPORARY SEEDING

MULCHING

- A = KENTUCKY BLUEGRASS 40%, TURF TYPE TALL FESCUE 40%, ANNUAL RYEGRASS 20% PLUS 2 TONS OF STRAW MULCH/ ACRE
- APPLY MIXTURE AT A RATE OF 2 LBS. PER 1000 SQ.FT.
- B = SPRING OATS 3 BUSHEL PER ACRE
- C = WHEAT OR RYE 2 BUSHEL PER ACRE
- D = ANNUAL RYEGRASS (1 LB. PER 1000 SQ. FT.)
- E = STRAW MULCH (90 LBS. PER 1000 SQ.FT.)

- / / ● IRRIGATION NEEDED DURING JUNE, JULY, AND / OR SEPTEMBER.
- ● IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOG

SEEDING SCHEDULE

NO SCALE

NOTE: ALL SEEDING SHALL HAVE 12-0-12 FERTILIZER APPLIED 400-600 LBS. PER ACRE UNLESS A SOILS TEST INDICATES PHOSPHOROUS DEFICIENCY.

RADRICK PROFESSIONAL BUILDING

LOT 3 BRIDGEWATER MARKETPLACE

City of Westfield, Indiana

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

Site Engineer: Borden Civil Engineering & Land Surveying, LLC
bordenet@civil-llc.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

EROSION DETAILS

FINAL CONSTRUCTION PLANS

Plan Date: June 16th, 2016

GENERAL NOTES

NOTE: DETAIL/SHT. DESCRIPTION

PROFESSIONAL ENGINEER

No. 19900113 STATE OF INDIANA

4/16/16 DATE

PROJECT INFORMATION

Project No.: 2016-153

Sheet No.: C3.0 (EROSION DETAILS)

PROFESSIONAL ENGINEER

No. 11300022 STATE OF INDIANA

2/26/16 DATE

PROJECT INFORMATION

Project No.: 2016-153

Sheet No.: C3.0 (EROSION DETAILS)

PROFESSIONAL ENGINEER

No. 11300022 STATE OF INDIANA

2/26/16 DATE

PROJECT INFORMATION

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PROFESSIONAL ENGINEER

No. 11300022 STATE OF INDIANA

2/26/16 DATE

PROJECT INFORMATION

Project No.: 2016-153

Sheet No.: C3.0 (EROSION DETAILS)

SITE DETAILS

FINAL CONSTRUCTION PLANS

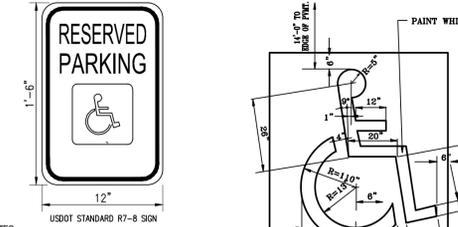
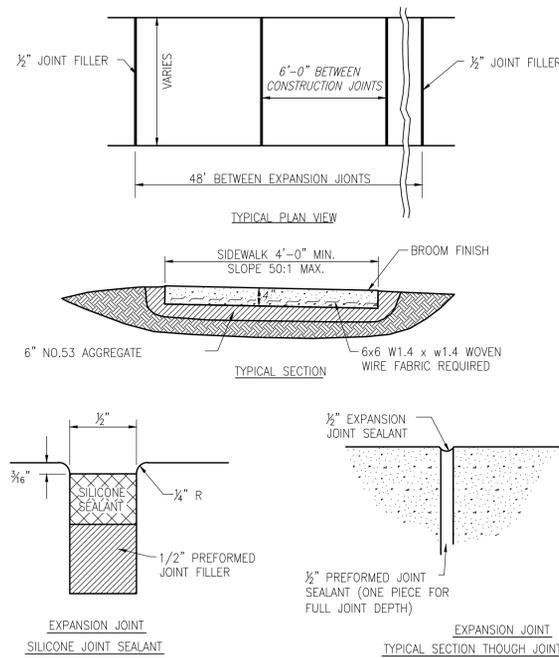
Plan Date: June 16th, 2016



GENERAL NOTES

NOTE DETAIL/SHT. DESCRIPTION

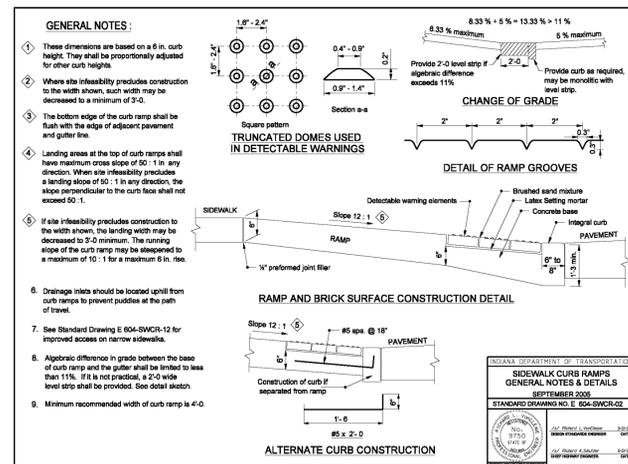
SIDEWALK DETAILS (SW)



GENERAL NOTES:
1. NOTE (R7-8 SIGN): THIS IS A STANDARD SIGN AND MAY BE ORDERED FROM ANY TRAFFIC SIGN SUPPLIER BY NUMBER.
2. SIGN TO BE MOUNTED ON STEEL SIGN POST WITH BOTTOM OF SIGN PLACED 5'-0" ABOVE FINISHED PAVEMENT GRADE.
3. SIGN TO BE SET IN 1'-0" DIAMETER X 1'-6" DEEP CAST IN PLACE CONCRETE ANCHOR.

HANDICAP PARKING DETAILS (HC)

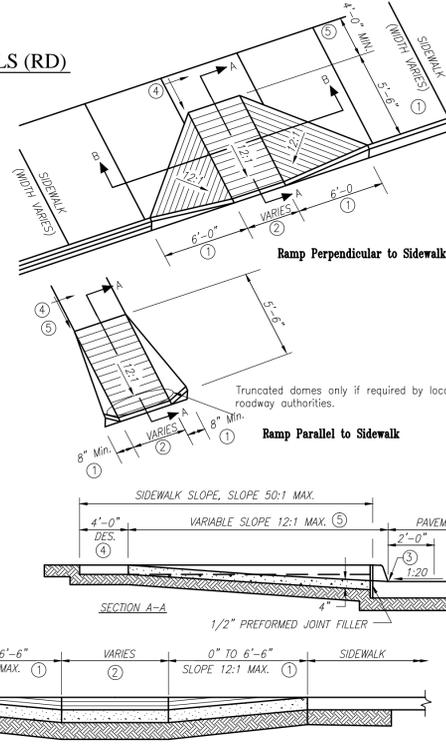
INDOT SIDEWALK RAMP DETAILS (INDOT)



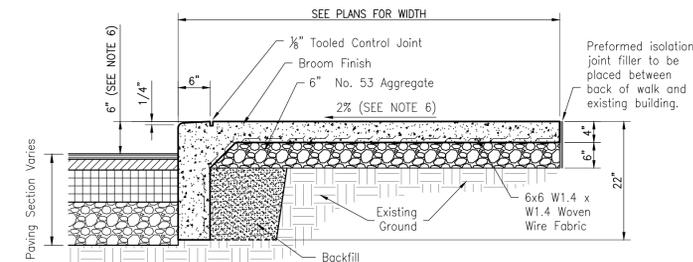
BUILDING RAMP DETAILS (RD)
NOT TO SCALE

GENERAL NOTES

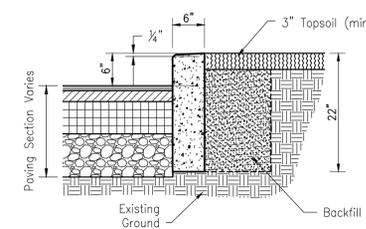
- These dimensions are based on a 6" curb height and shall be proportionally adjusted for other curb heights.
- See plans for actual ramp width. A 3'-0" minimum width ramp may be used when existing space prohibits construction of the adjacent pavement and gutter line.
- The bottom edge of the curb ramp shall be flush with the edge of the adjacent pavement and gutter line.
- Landing areas at the top of curb ramps shall have a minimum cross section slope of 1:50 in any direction. Where sites infeasibility on a project precludes a landing slope of 1:50 in any direction, the slope perpendicular to the curb face shall not exceed 1:50.
- If site infeasibility on a project precludes construction as shown, the landing area may be decreased to a 3'-0" minimum and the running slope on the curb ramp may be increased to a maximum of 10:1 for 6" of rise.



MONOLITHIC WALK AND CURB (MWC)

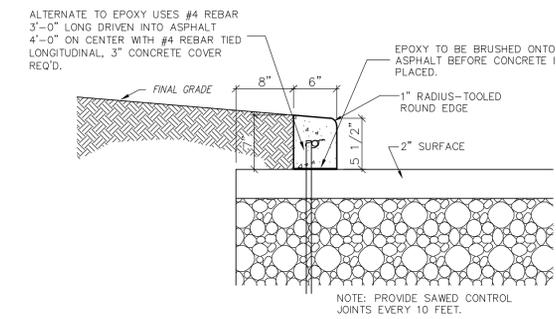


CURB DETAIL (CD)

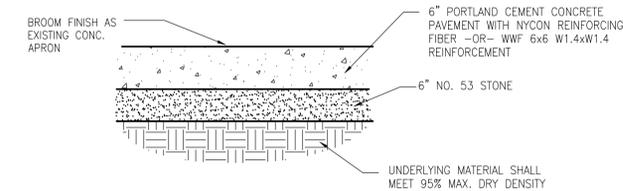


- NOTES:
- Expansion joints are required at storm inlets.
 - Contraction Joints should be installed at 10' spacings.
 - Spacing shall be 5' on curve radii.
 - Contraction joints shall be tooled or sawn in continuously poured curbs to a depth of 1/4" min.
 - Concrete and placement shall be as specified in the plan specifications.

EXTRUDED CURB (EC)

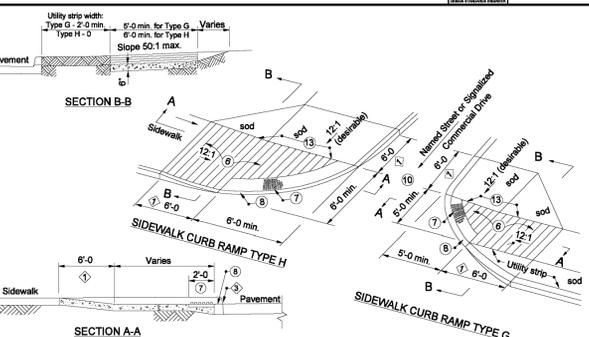
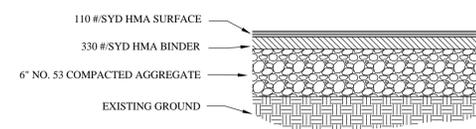


ALL CONCRETE SHALL BE 4000 PSI STRENGTH WITH AIR-ENTRAINMENT. A MINIMUM CEMENT CONTENT (BATCH) OF 500 POUNDS SHALL BE USED. A MAXIMUM WATER/CEMENT RATIO OF 0.5 SHALL BE USED. ALL JOINTS SHALL BE TOOLED AND SAW CUT TO A WIDTH OF 1/8" AND A DEPTH OF 2".



CONCRETE PAVING SECTION (CPS)

STANDARD DUTY ASPHALT PAVING SECTION (SA)

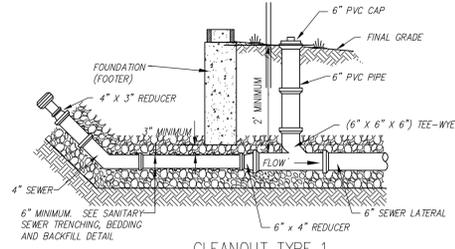


- NOTES:
- See Standard Drawing E 604-SWCR-02 for groove details.
 - See Standard Drawings E 604-SWCR-02 for details of the detectable warning surface.
 - See Standard Drawing E 604-SWCR-02 for alternate curb construction.
 - Sidewalk across approach shall be sloped at 50:1 maximum transversely.
 - See Standard Drawing E 604-SWCR-02 for typical ramp construction detail.
 - See Standard Drawing E 604-SWCR-01 and -02 for Location Plan and General Notes respectively.
 - Vertical face curb optional.



NOTE	DESCRIPTION	DATE
1	REV. PER TAC REVIEW: STORM DRAINAGE	6-16-16

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

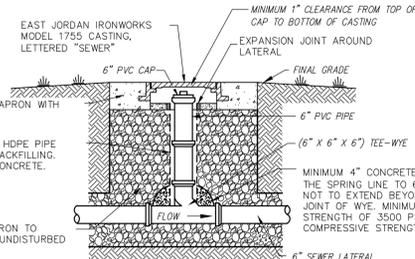


CLEANOUT TYPE 1
(ONLY LANDSCAPED SURFACES WITHIN THREE FEET OF BUILDING)

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

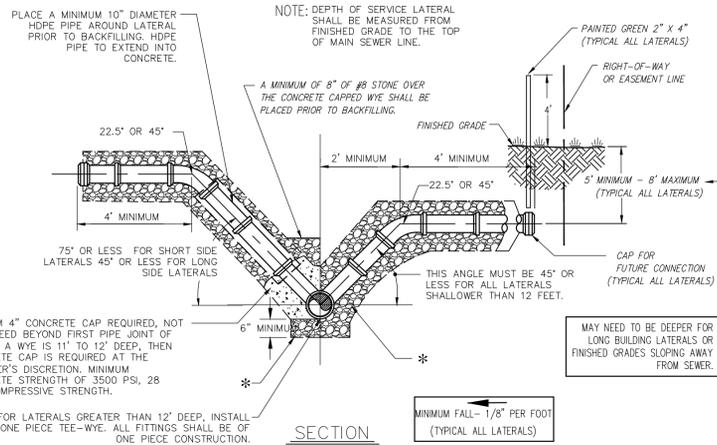
TYPICAL CLEAN OUT DETAILS (CO)

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 0.20" MINIMUM ABOVE FINISHED GRADE UNLESS CONSTRUCTED WITHIN PEDESTRIAN OR VEHICULAR TRAFFIC WAY. UNLESS APPROVED BY ENGINEER, SANITARY SEWER CASTINGS OR CLEANOUTS MUST NOT BE WITHIN 1' HORIZONTAL DISTANCE OF ANY PAVED OR CONCRETE SURFACES.

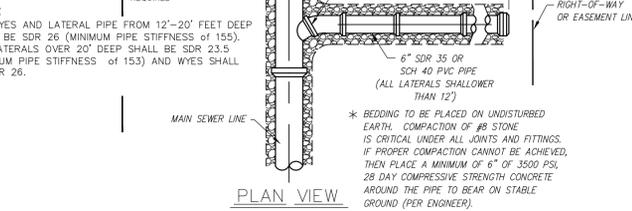


SECTION

MORE THAN 12' DEEP

LESS THAN 12' DEEP

SERVICE LATERAL DETAIL (SL)



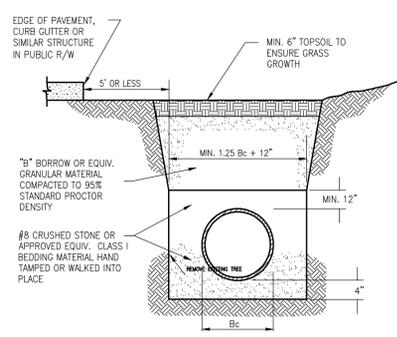
PLAN VIEW

NOTE: ALL WYES AND LATERAL PIPE FROM 12'-20' FEET DEEP SHALL BE SDR 26 (MINIMUM PIPE STIFFNESS OF 155). ALL LATERALS OVER 20' DEEP SHALL BE SDR 23.5 (MINIMUM PIPE STIFFNESS OF 153) AND WYES SHALL BE SDR 26.

NOTE: BEDDING TO BE PLACED ON UNDISTURBED EARTH. COMPACTION OF #8 STONE IS CRITICAL UNDER ALL JOINTS AND FITTINGS. IF PROPER COMPACTION CANNOT BE ACHIEVED, THEN PLACE A MINIMUM OF 6" OF 3500 PSI, 28 DAY COMPRESSIVE STRENGTH CONCRETE AROUND THE PIPE TO BEAR ON STABLE GROUND (PER ENGINEER).

NOTES:

- LATERAL MAY NOT BE HIGHER THAN 6" ABOVE EXISTING BENCH WALL
- 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 WATER TIGHT SEAL BETWEEN THE PIPE AND MANHOLE. THE CONNECTOR SHALL BE THE SOLE ELEMENT REIED UPON TO ASSURE A FLEXIBLE WATER TIGHT SEAL OF THE PIPE TO THE MANHOLE.



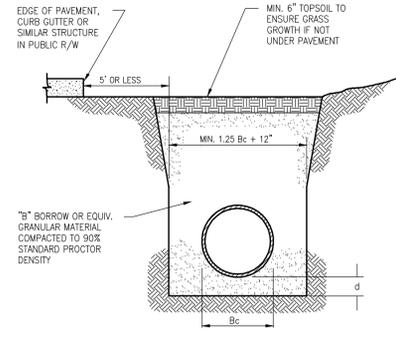
PLASTIC PIPE (PVC AND HDPE) TRENCH DETAIL
WITHIN 5' FROM EDGE OF PAVEMENT

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.

LEGEND

Bc = OUTSIDE DIAMETER
D = INSIDE DIAMETER
d = DEPTH OF BEDDING MATERIAL BELOW PIPE



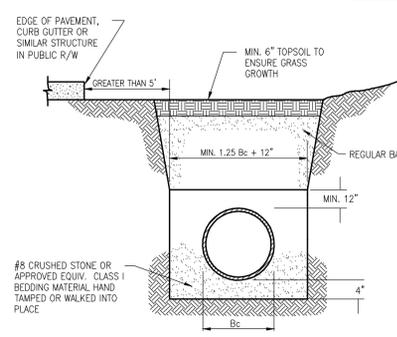
REINFORCED CONCRETE PIPE (RCP) TRENCH DETAIL
WITHIN 5' FROM EDGE OF PAVEMENT

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.

LEGEND

Bc = OUTSIDE DIAMETER
D = INSIDE DIAMETER
d = DEPTH OF BEDDING MATERIAL BELOW PIPE



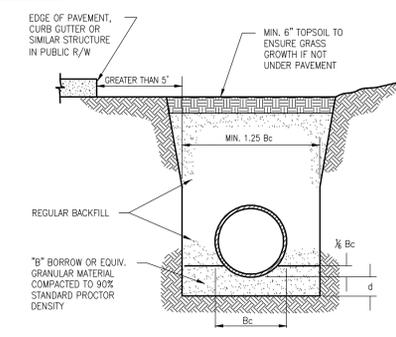
PLASTIC PIPE (PVC AND HDPE) TRENCH DETAIL
GREATER THAN 5' FROM EDGE OF PAVEMENT

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

Bc = OUTSIDE DIAMETER
D = INSIDE DIAMETER
d = DEPTH OF BEDDING MATERIAL BELOW PIPE



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

NOTE: ALL BEDDING & INITIAL BACKFILL SHALL BE IN 6" TO 12" BALANCED LIFTS.

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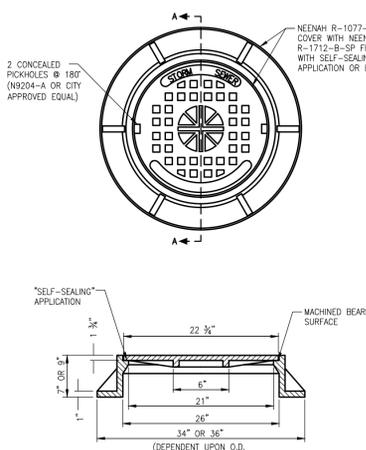
LEGEND

Bc = OUTSIDE DIAMETER
D = INSIDE DIAMETER
d = DEPTH OF BEDDING MATERIAL BELOW PIPE

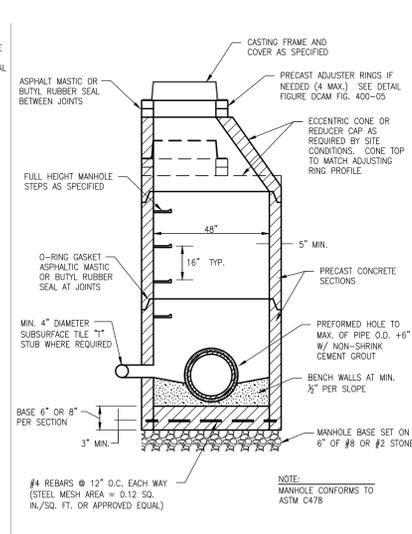
NOTE	DESCRIPTION	DATE
1	REV. PER TAC REVIEW: STORM DRAINAGE	6-16-10

D (IN.)	T (IN.)	L (FT.)	B (IN.)	W (LB./FT.)
12	B 2	8	20 1/4	99
	C 2 7/8			148
15	B 2 1/4	8	23 7/8	144
	C 3			176
18	B 2 1/2	8	28	168
	C 3 5/8			246
21	C 3 3/4	8	31 5/8	304
24	C 3 3/4	8	35 1/2	366
27	C 4	8	39	420
30	C 4 1/4	8	42 1/2	476
33	C	8	52	552
36	C 4 3/4	8	50 1/4	633

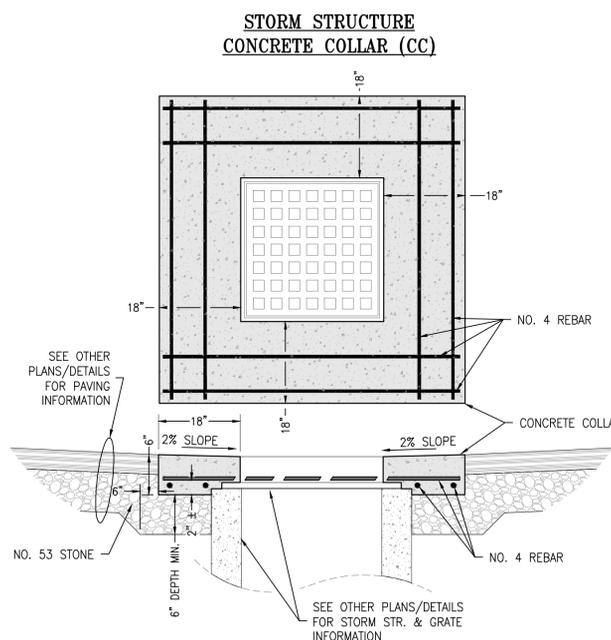
TYPICAL PIPE DETAIL - SINGLE SPIGOT OFFSET FOR PROFILE GASKET (CP)



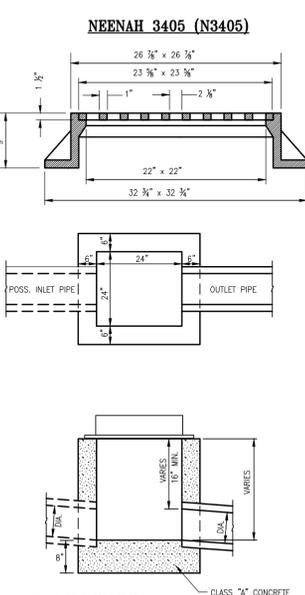
STORM SEWER MANHOLE FRAME & COVER



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



STORM STRUCTURE CONCRETE COLLAR (CC)



INLET TYPE "A" (MA)

City of Westfield, Indiana

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

Site Engineer: Bordenet Civil Engineering & Land Surveying, LLC
bordenet@civil-es.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

SEWER DETAILS

FINAL CONSTRUCTION PLANS

Plan Date: June 16th, 2016



GENERAL NOTES

NOTE: DETAIL/SHT. DESCRIPTION

Project Number:

2016-153

Sheet No. :

C3.2 (SEWER DETAILS)

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

INTERIOR PARKING LOT PLANTING TABLE

10% OF VEHICULAR USE AREAS SHALL BE LANDSCAPED AREA. PARKING LOT ISLANDS SHALL INCLUDE AT LEAST 1 TREE AND 4 SHRUBS.

SYMBOL	PARKING SPACES	LANDSCAPED AREA NEEDED	LANDSCAPED AREA PROVIDED	TREES NEEDED	TREES PROVIDED	SHRUBS NEEDED	SHRUBS PROVIDED
	56	2,527SF	2,811SF	6	5	24	24

PERIMETER PARKING LOT PLANTING TABLE

MIN. 5' WIDE; MIN. 1 TREE/30 LFT, 1 SHRUB/3 LFT

SYMBOL	TOTAL LENGTH	TREES NEEDED	TREES PROVIDED	SHRUBS NEEDED	SHRUBS PROVIDED
	474'	15.8	8	3' O.C.	100

ROAD FRONTAGE PLANTING TABLE

MIN. 1 SHADE TREE/40'

SYMBOL	TOTAL LENGTH	SHADE TREES NEEDED	SHADE TREES/ ORNAMENTAL PROVIDED
	709'	17.7	11

BUFFER YARD PLANTING TABLE

MIN. 1 EVERGREEN TREE / 30 LFT; 5 EVERGREEN SHRUBS/ 30 LFT

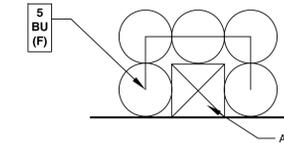
SYMBOL	TOTAL LENGTH	EVERGREEN TREES NEEDED	EVERGREEN TREES PROVIDED	EVERGREEN SHRUBS NEEDED	EVERGREEN SHRUBS PROVIDED
	278'	9.2	10	46.3	31

ON-SITE PLANTING TABLE

MIN. 10 SHADE TREES/ ACRE, 10 ORNAMENTAL TREE/ ACRE, 25 SHRUBS/ ACRE

TOTAL AREA	SHADE/ EVERGREEN TREES NEEDED	SHADE TREES PROVIDED BY ROAD FRONTAGE PLANTING	ORNAMENTAL/ EVERGREEN TREES NEEDED	EVERGREEN TREES PROVIDED BY BUFFER YARD PLANTING	SHRUBS NEEDED	SHRUBS PROVIDED
1.53ACRE	15.3	16	15.3	16	38.25	39

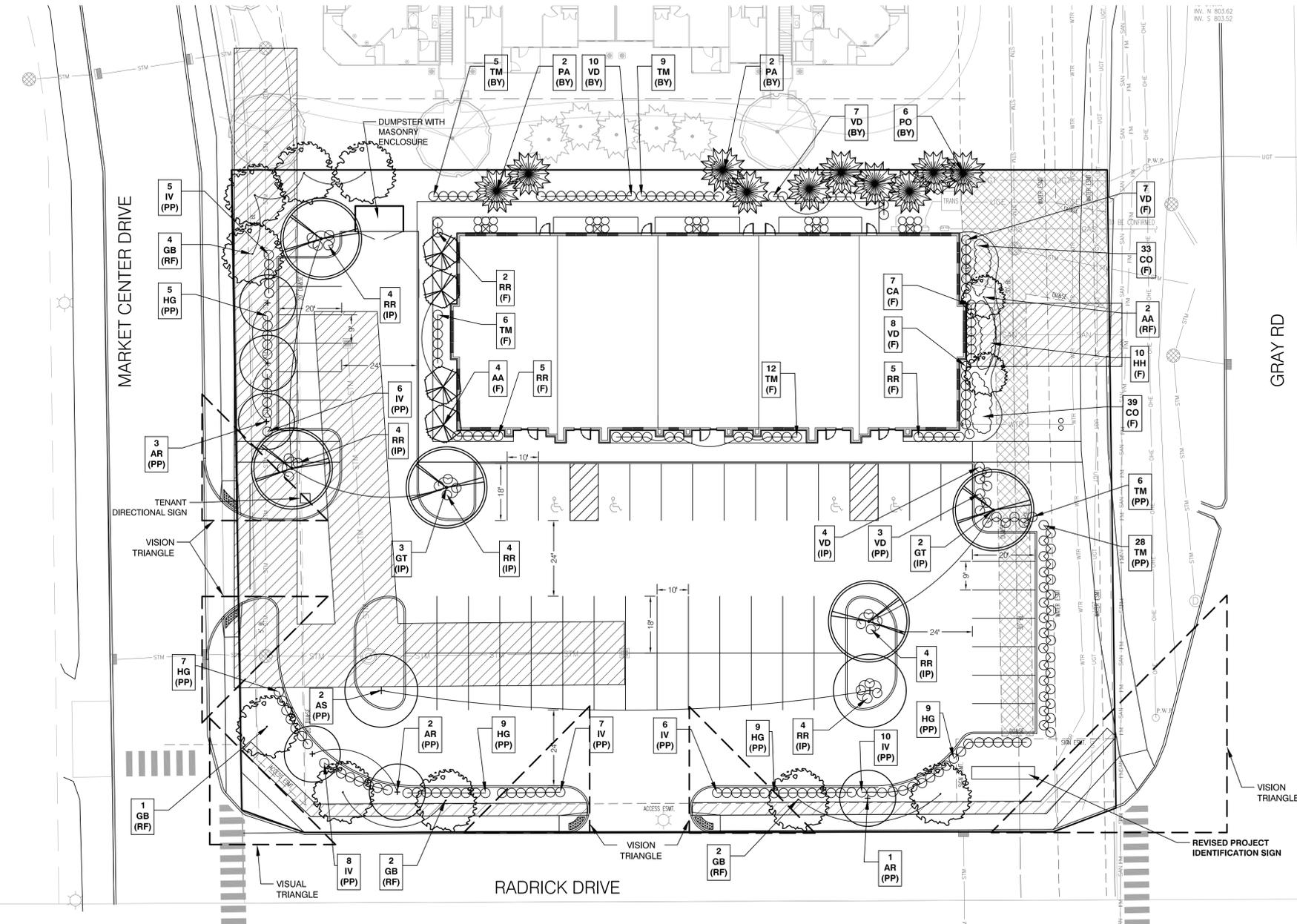
SYMBOL	DESCRIPTION	4 AG (SY)	PLANT QUANTITY	PLANT TYPE	REQ. LOCATION
(IP)	INTERIOR PARKING LOT REQUIREMENTS				
(PP)	PERIMETER PARKING LOT REQUIREMENTS				
(RF)	ROAD FRONTAGE REQUIREMENTS				
(BY)	BUFFER YARD REQUIREMENTS				
(F)	FOUNDATION PLANTS				



02 TYPICAL AC UNIT SCREENING

L1.01 1/4"=1'-0"

OPEN SPACE: 39.4%
PAKRING SPACE: 55

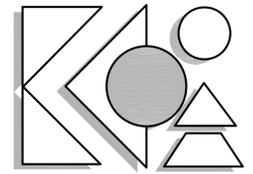


PLANT SCHEDULE

TREES					
KEY	QTY.	PLANT NAME	SIZE	SPACING	NOTES
AA	6	AMELANCHIER x GRANDIFLORA 'AUTUMN BRILLIANCE' EASTERN REDBUD	1 1/2' CAL.	AS SHOWN	FULL, UNSHEARED
AR	6	ACER RUBRUM 'ARMSTRONG' ARMSTRONG RED MAPLE	2 1/2' CAL.	AS SHOWN	FULL, STRONG STRAIGHT TRUNK
AS	2	ACER SACCHARUM 'GREEN MOUNTAIN' GREEN MOUNTAIN MAPLE	2 1/2' CAL.	AS SHOWN	FULL, STRONG STRAIGHT TRUNK
BU	25	BUXUS x 'GREEN VELVET' GREEN VELVET BOXWOOD	NO. 3 CONT.	AS SHOWN	FULL, MATCH, UNSHEARED
CA	7	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER' KARL FOERSTER FEATHER REED GRASS	24" TALL	36" O.C.	
CO	72	COREOPSIS G 'EARLY SUNRISE' EARLY SUNRISE COREOPSIS	1 GAL	18" O.C.	
GB	9	GINKGO BILOBA 'PRINCETON SENTRY' PRINCETON SENTRY GINKGO	2 1/2' CAL.	AS SHOWN	FULL, STRONG STRAIGHT TRUNK
GT	5	GLEDITSIA TRIACANTHOS L 'SKYCOLE' SKYLINE HONEYLOCUST	2 1/2' CAL.	AS SHOWN	FULL, STRONG STRAIGHT TRUNK
HG	39	HYDRANGEA M 'ENDLESS SUMMER TWIST-N-SHOUT' TWIST-N-SHOUT HYDRANGEA	24" TALL	36" O.C.	
HH	41	HEMEROCALLIS 'HAPPY RETURNS' HAPPY RETURNS YELLOW DAYLILY	1 GAL	18" O.C.	
IV	42	ITEA VIRGINICA VIRGINIA SWEETSPIRE	24" TALL	36" O.C.	
PA	4	PICEA ABIES NORWAY SPRUCE	6-7' HT.	AS SHOWN	FULL TO GROUND, MATCHED UNSHEARED, STRAIGHT TRUNK
PO	6	PICEA OMORIKA SERBIAN SPRUCE	6-7' HT.	AS SHOWN	FULL TO GROUND, MATCHED UNSHEARED, STRAIGHT TRUNK
RR	28	ROSA 'RADTKOPINK' PINK DOUBLE KNOCK OUT ROSE	18-24" HT.	36" O.C.	
TM	66	TAXUS x MEDIA 'DENSIFORMIS' DENSE SPREADING YEW	18-24" HT.	36" O.C.	FULL TO GROUND, UNSHEARED
VD	39	VIBURNUM DENTATUM 'BLUE MUFFIN' BLUE MUFFIN VIBURNUM	18-24" HT.	36" O.C.	

01 SITE LANDSCAPE PLAN

L1.01 1"=20'-0"



KEVIN K. PARSONS & ASSOCIATES, INC.
landscape architecture
land planning
urban design
212 West 10th Street · Suite A-290
Indianapolis, Indiana 46202
317-955-9155 · Fax 317-955-9455

GILMORE

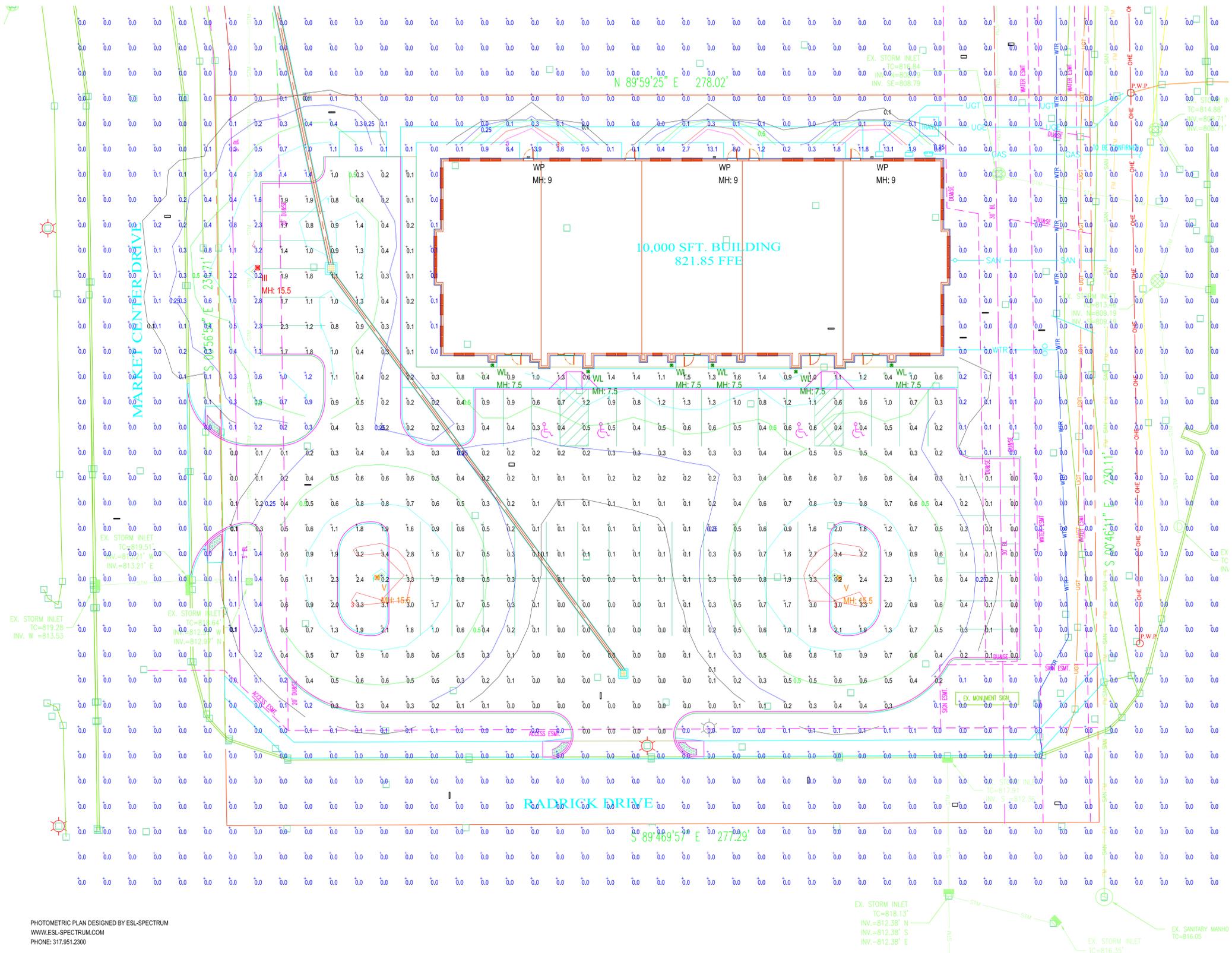
WESTFIELD, INDIANA

LANDSCAPE PLAN

PROJECT: KPA-16502
DRAWN: YL
CHECKED: KKP/JML
SCALE: AS SHOWN
ISSUE DATE: 03/03/2016
REVISION: 03/31/2016
04/18/2016
06/01/2016

SITE LANDSCAPE PLAN

L1.01



PHOTOMETRIC PLAN DESIGNED BY ESL-SPECTRUM
 WWW.ESL-SPECTRUM.COM
 PHONE: 317.951.2300

Luminaire Schedule						
Symbol	Qty	Label	Arrangement	Lum. Watts	Lum. Lumens	Description
	2	V	SINGLE	150	8114	1-8930-PT-3414FP4-150MHP-RO5-FHC-CA-BK-16' POLE
	1	III	SINGLE	150	7984	1-8930-PT-3414FP4-150MHP-RO3-FHC-CA-BK-16' POLE
	6	WL	SINGLE	70	4240	7543-WB-70MH-RE5GSM
	3	WP	SINGLE	70	3719	TRP 70PX WT

CALCULATIONS ARE MAINTAINED HORIZONTAL ILLUMINANCE FIGURES IN FOOT-CANDLES
 POINTS SHOWN ARE AT GRADE
 FIXTURES ARE MOUNTED ON 14'-0" POLES

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Parking Lot_Grade	ILLUMINANCE	Fc	0.63	3.4	0.0	N.A.	N.A.
Perimeter_Grade	ILLUMINANCE	Fc	0.13	13.9	0.0	N.A.	N.A.

ESL-Spectrum's services are for estimation purposes only, and are not warranties.
 Final design and illumination levels must be determined and specified by an electrical engineer.
 Field results may differ from computer predictions because of many uncontrollable factors and adverse test conditions such as:
 line voltage variations, lamp performance, product manufacturing tolerances, jobsite conditions, and other unrecoverable light-loss factors.

THE FIXTURE TYPE(S) AND LAMPING(S) SPECIFIED ON THIS LAYOUT MUST BE USED IN ORDER TO MEET THE EXACT CRITERIA AND PERFORMANCE DATA SHOWN.
 IES RECOMMENDED ILLUMINANCE TARGETS USED WHERE APPLICABLE.

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

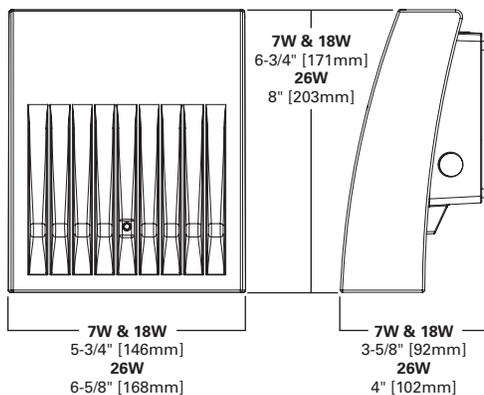
Five-year warranty.



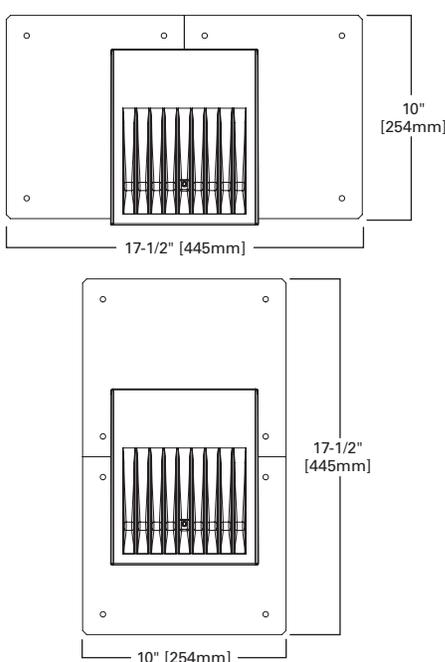
XTOR CROSSTOUR LED

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

8930 CLASSIC SERIES

SPECIFICATIONS

GENERAL

The 8930 Classic series is an impressive, historical eight-sided fixture. It consists of a decorative cast eight-sided sloped roof with four detailed roof sconces and a unique one-piece cast cage with acrylic lens. The roof shall be appointed with a decorative cast 6" diameter tall finial.

POST FITTER

The fitter or base shall be heavy wall cast aluminum, 356 alloy for high tensile strength. It shall have an inside diameter opening to fit a 3" diameter pole or tenon. When ordered with a Sternberg aluminum pole, the fitter shall be set screwed to the pole top or tenon.

BALLAST

The ballast shall be remote mounted in the base of the pole, pole shaft, arm or ballast box. The 8930BB shall have an integral ballast compartment. The ballast housing shall be heavy wall cast aluminum, 356 alloy for high tensile strength. The housing shall be an integral part of the fixture and cast in one piece to ensure a water-tight compartment. The ballast shall be attached to the ballast housing to ensure high capacity heat sinking of ballast temperatures, keeping the ballast cooler and ensuring long life. The ballast shall be mounted on a pull out door for easy ballast maintenance.

ELECTRICAL

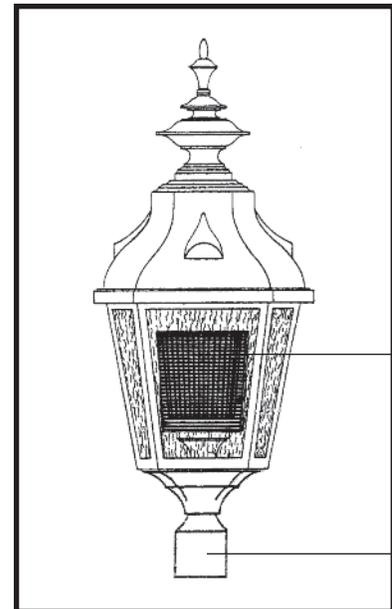
Fixture shall be U.L. or E.T.L. listed in U.S. and Canada. H.I.D. ballasts shall be high power factor with lamp starting down to -30 degrees C. Medium base and mogul base porcelain sockets are 4KV rated. All compact fluorescent (PL) ballasts shall be instant start electronic with a starting temperature of down to 0 degrees F. They shall have a 4-pin socket to accept quad or triple tube lamps. Ballasts shall be DOE EISA compliant.

FIXTURE HOUSING

The 8930 fixture shall be 15" wide and the overall height shall be 38". It shall be made of heavy wall cast aluminum, 356 alloy and lenses shall be made of vandal resistant acrylic, available in clear (CA), clear seeded (CSA), clear textured (CTA), prismatic (PA), and white (WA) acrylic. The fixture cage shall cast in one piece. The Model 8930 shall have an eight-sided roof, cage and bottom plate with four large lenses and four smaller corner lenses. The fixture shall be equipped with a lift hinge access door when the Roof Optics option is selected.

OPTICAL OPTIONS

Refractors shall be 6" diameter borosilicate glass with an I.E.S. Type 3 (RE3) or Type 5 (RE5) distribution. It shall be secured to the socket stem with 3/8" plated steel threaded pipe nipple and rest on a cast aluminum holder with anti-shock gasket. The refractor will be secured to cast holder with a quarter-turn internal aluminum twist ring for ease of maintenance.

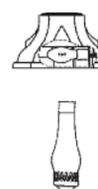
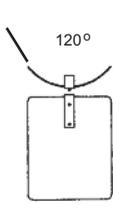
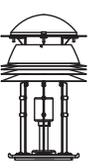


**EPA = 1.72 (ft²)
WEIGHT = 24 LBS**

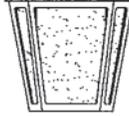
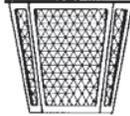
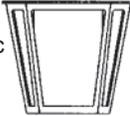
8930 CLASSIC

FIXTURES/ARMS PM-WB

FIXTURES / OPTICAL SYSTEMS

15" W  8930 Post Top Version	15" W  8930 Arm or Pier Mount Version	15" W  8930BB Integral Ballast	15" W  8930AH Arm Hung Version	15" W  8930H Hanging Version	RO Roof Optics Type 2, 3 or 5  FHC Frosted Hurricane Chimney	Alzak Disc  RE3 RE5 Refractor	 HSS House Side Shield	 3L 3 Light	 LO3 LO5 Louver Optics
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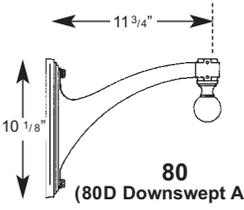
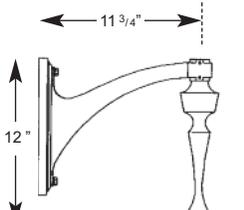
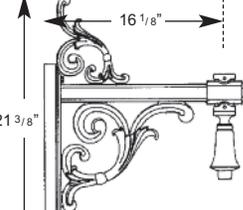
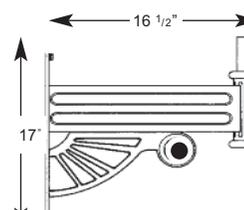
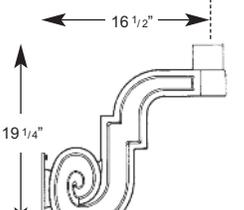
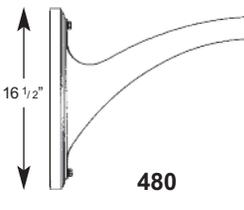
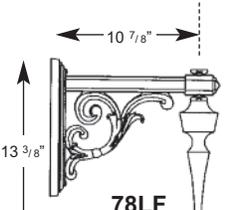
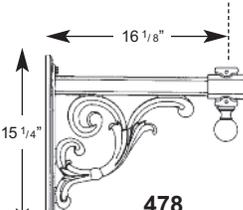
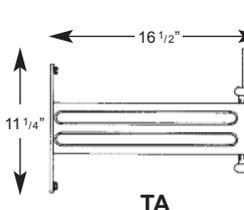
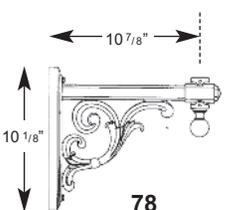
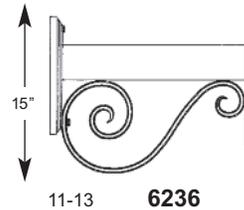
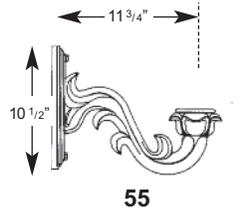
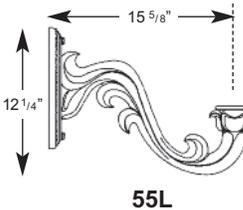
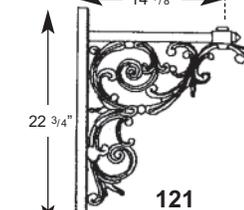
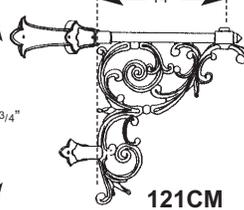
LENSES

 CSA Clear Seeded Acrylic	 CA Clear Acrylic	 CTA Clear Textured Acrylic	 PA Prismatic Acrylic	 WA White Acrylic	Stem Hung Chain Hung
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BALLASTED WALL MOUNTS (BB) PIER MOUNTS (PB) HANGING BRACKETS

 Wall Ballast Box for 55, 78, 80, 6236 Arms	 Wall Ballast Box for 478 and 480 Arms	 PB44 Incan- descent	 PB28 For 150 to 250 Watt Ballasts	 PB27B For up to 100 Watt Ballasts	 SH-CH28 For 150 to 250 Watt Ballasts	 SH-CH27B For up to 100 Watt Ballasts	 SH44 CH44
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ARMS - POST MOUNT (PM) or WALL BRACKETS (WB) See Arms Section for more information

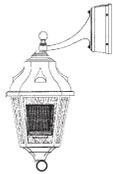
 80 (80D Downswep Arm)	 50	 478TS	 TASCRA	 579
 480	 78LF	 478	 TA	 78
 6236	 55	 55L	 121	 121CM Corner Mount

BUILDING A PART NUMBER



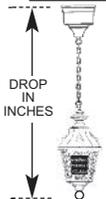
POST & ARM FIXTURES

ARM MOUNTED FIXTURE NO. OF ARMS	CENTER POST TOP FIXTURE (PT) FIXTURE	POST	POST CAP	LIGHT SOURCE BALLAST	OPTICS	OPTIONS	LENS	FINISH
2	8930/478PM	PT	3412FP5	FCC	100 HPS120	RE3	HPS100/MED	CSA / BK



WALL FIXTURES

FIXTURE / WALL BRACKET	LIGHT SOURCE BALLAST	OPTICS	OPTIONS	LENS	FINISH	PIER FIXTURES
8930AH/80DWBBB	100 HPS120	RE5	HPS150/MED	CTA	BK	Uses same information boxes as wall fixture 8930/PB28 FIXTURE / PIER BASE



HANGING FIXTURES

FIXTURE / HANGING BRACKET	OVERALL DROP IN INCHES	LIGHT SOURCE BALLAST	OPTICS	OPTIONS	LENS	FINISH
8930H/CH28	48 INCHES	150 HPS120	RE5	HPS150/MED	CSA	BK

PART NUMBER SELECTIONS

FIXTURES

- 8930¹
- 8930AH¹
- 8930H¹
- 8930BB

OPTICS

- RE3
- RE5
- ALZAK
- HSS
- LO3
- LO5
- RO2^{6,7}
- RO3^{6,7}
- RO5^{6,7}
- FHC³
- 3L

LENSES

- CSA
- CA
- CTA
- PA
- WA

OPTIONS

- PEC1 Photocell-Bimetal 120 Volt
- PEC2 Photocell-Bimetal 208-277 Volt
- PEC1-E Photocell-Electronic 120 Volt
- PEC2-E Photocell-Electronic 208-277 Volt
- FHS Single Fuse and Holder-120,277 Volt
- FHD Dual Fuse and Holder-208,240,480 Volt
- QR Quartz Re-Strike
- PF Pineapple Finial or Font (TA, TASCRT)
- BF Ball Finial or Font (TA, TASCRT)
- LAMPS Select from List

POST ARMS

- 78PM
- 78LPM
- 478PM
- 478TSPM
- 50PM
- 50DPM
- 80PM
- 80DPM
- 480PM
- 480DPM
- 55PM
- 55LPM
- 121PM
- 6236PM
- 579PT
- TAPT
- TASCRT

WALL BRACKET ARMS

- 78WB
- 78LFWB
- 478WB
- 478TSWB
- 80WB
- 80DWB
- 50WB
- 50DWB
- 480WB
- 480DWB
- 55WB
- 55LWB
- 6236WB
- 579WB
- TAWB
- TASCRTWB
- 121WB
- 121CMWB

WALL BRACKET ARMS WITH BALLAST BOX

- 78WBBB
- 78LFWBBB
- 478WBBB
- 478TSWBBB
- 80WBBB
- 80DWBBB
- 50WBBB
- 50DWBBB
- 480WBBB
- 480DWBBB
- 55WBBB
- 55LWBBB
- 6236WBBB
- TAWBBB
- TASCRTWB
- 121WBBB⁵

VOLTAGES

- 120
- 208
- 240
- 277
- 480
- MULTI (120-277)

HANGING BRACKETS

- CH44 INC
- SH44 INC
- CH27B HID
- SH27B HID
- CH28 HID
- SH28 HID

BALLASTS^{1,4,8}

- 35HPS²
- 50HPS
- 70HPS
- 100HPS
- 150HPS
- 250HPS
- 50MHP
- 70MHP
- 100MHP
- 150MHP
- 175MHP⁹
- 200MHP
- 250MHP
- 26PLT
- 32PLT
- 42PLT
- INCAND

LAMPS⁸

- HPS35/MED
- HPS50/MED
- HPS70/MED
- HPS100/MED
- HPS150/MED
- HPS250/MOG/ED18
- MHP50/MED
- MHP70/MED
- MHP100/MED
- MHP150/MED
- MHP175/MOG/ED28⁹
- MHP200/MOG/ED28
- MHP250/MOG/ED28
- PLT26
- PLT32
- PLT42

PIER BASES

- PB44
- PB28
- PB27B

STANDARD FINISHES*

- BKT Black Textured
- WHT White Textured
- PGT Park Green Textured
- ABZT Architectural Medium Bronze Textured
- DBT Dark Bronze Textured

*Smooth Finishes are available upon request

CUSTOM FINISHES

- OI Old Iron
- RT Rust
- WBR Weathered Brown
- CD Cedar
- WBK Weathered Black
- TT Two Tone

STERNBERG SELECT FINISHES

- VG Verde Green
- SI Swedish Iron
- OWGT Old World Gray Textured

NOTES:

- ¹ Pole mounted fixtures - requires ballast to be mounted in pole base.
 - ² Wall mounted fixtures - requires wall bracket arms with ballast box.
 - ³ Pier mounted fixtures - requires PB28 or PB27B if ballasted.
 - ⁴ Hanging fixtures - require CH/SH28 or CH/SH27B if ballasted.
 - ⁵ 35HPS is 120 volt only.
 - ⁶ Medium base socket only when used to house lamp.
 - ⁷ Medium base sockets standard with ballasts up to 150 watts HID. Mogul base sockets are standard with ballasts 200 watts and over. 4-Pin for PL
 - ⁸ Custom ballast box.
 - ⁹ Medium base lamp only, ED17. Consult factory for mogul base.
- ⁷ Can support PLH or PLT up to 60W. ⁸ Metal halide systems are pulse start. ⁹ Consult factory for limitations.

8930 CLASSIC SERIES

SPECIFICATIONS

LIST NO. 8930 CLASSIC SERIES

Optic System shall be made of highly specular anodized aluminum and shall come standard with medium base socket.

NIGHTSKY® STAR-SHIELD® Roof Optics distribution shall be delivered by multi-segmented roof mounted reflector systems which eliminate uplight and provide cut-off. The reflector cavity shall be made of specular anodized aluminum. Roof Optics Type 2 (RO2), Type 3 (RO3), Type 5 (RO5) horizontal are available for medium base lamps.

Frosted Glass Hurricane Chimney (FHC) is an optic option which adds an authentic touch and can be used with Roof Optics.

House Side Shield (HSS) is an option which will block up to 120° of light in any one direction.

3-Light (3L) candelabra set is an option for incandescent application.

PHOTOCELLS

Photocells shall be either the thermo bi-metal button type or the electronic button type. On single post top fixtures the photocell shall be mounted in the fitter and pre-wired to ballast. On multiple head fixture assemblies photocells shall be mounted in the pole shaft on an access plate and are not pre-wired as ballast housing assemblies and fitters are packaged separately for ease of wiring to source. The thermo bi-metal photocell shall be designed to turn on at 1.0 footcandle and turn off at not more than 5 footcandles. The electronic button type photocell is instant on and a 5-10 second turn off and shall turn on at 1.5 footcandles with a turn-off at 2-3 footcandles. Photocells are either 120 volt or 208 thru 277 volt.

ARMS

All arms are made of cast aluminum and/or extruded aluminum. Arms with decorative filigree have meticulously detailed scroll work and gracefully curved brackets. All 8930 fixtures will have its fitter either welded to the arm or will be mechanically attached at the factory to ensure arms will be plumb, secure and level over the life of the installation. Each arm shall be bolted to a post mount adapter, which is welded to the pole to ensure proper alignment to the base. Twin TA, TASC and 579 arms will be attached to a decorative center hub which will slip-fit the center tenon of the pole (not shown). BA and 779 arms are available as a twin application. Arms are pre-wired for ease of installation.

FINISH

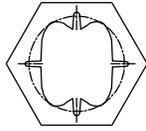
Prior to coating, each assembly shall be chemically cleaned and etched in a 5-stage washing system which includes alkaline cleaning, rinsing, phosphoric etching, reverse osmosis water rinsing and non-chrome sealing to ensure corrosion resistance and excellent adhesion for the finish coating. The finish coating shall be electrostatically applied semi-gloss, super durable polyester powder baked at 400 degrees for a durable and superior, color retentive finish. Our optional antique Verde Green finish and Swedish Iron finish are hand brushed using a 3-step process. The total assembly shall be wrapped in shockproof wrapping or fully enclosed in corrugated cartons.

WARRANTY

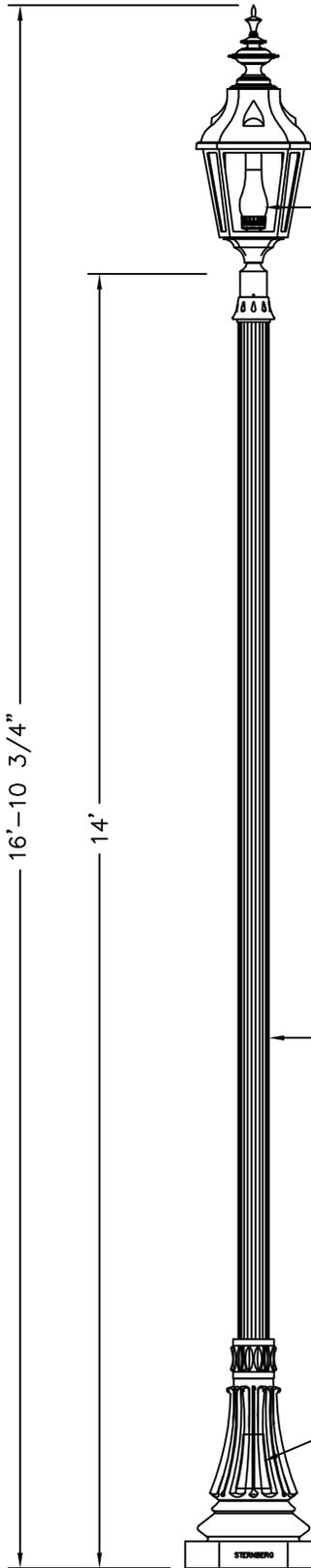
Five-year limited warranty. See product and finish warranty guide for details.



STREET SIDE



ACCESS DOOR



CLEAR ACRYLIC LENS

NIGHTSKY ROOF OPTICS
TYPE 3

FROSTED CHIMNEY WITH
SOLID BRASS HOLDER

4" DIA. FLUTED POLE
.125 WALL THICKNESS
6061-T6 STRUCTURAL
GRADE ALUMINUM

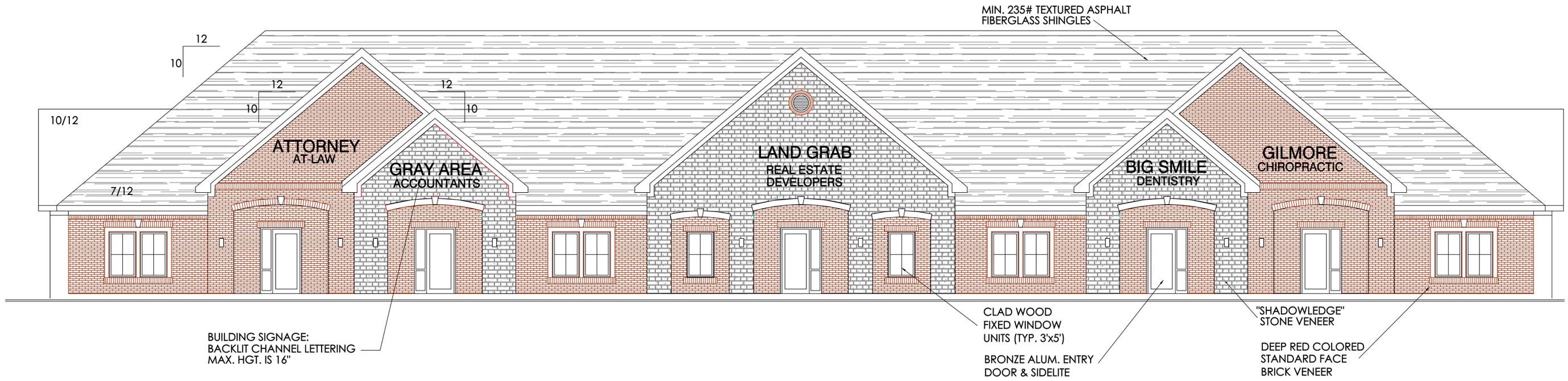
POLE WELDED FOR SINGLE
UNIT CONSTRUCTION

BALLAST IN BASE

ACCESS DOOR SECURED
WITH STAINLESS STEEL
ALLEN HEAD SCREWS

18" DIA. HEXAGONAL BASE
.875 FLOOR THICKNESS
FOUR ANCHOR BOLTS
AND ONE GROUND LUG

BRIDGEWATER COUNTRY CLUB CARMEL, IN 8930 3414FP4	POLE HEIGHTS HAVE A TOLERANCE OF + OR - 2"	MAY 1 2012	DRAWING NUMBER SC15861
	DRAWN LMG	3/4"=1'	SINCE 1923
STERNBERG			
SOCKET TYPE MED			
WATTAGE 150			
LIGHT SOURCE MHP			
VOLTAGE 120			
FUSE			
FINISH BLACK			

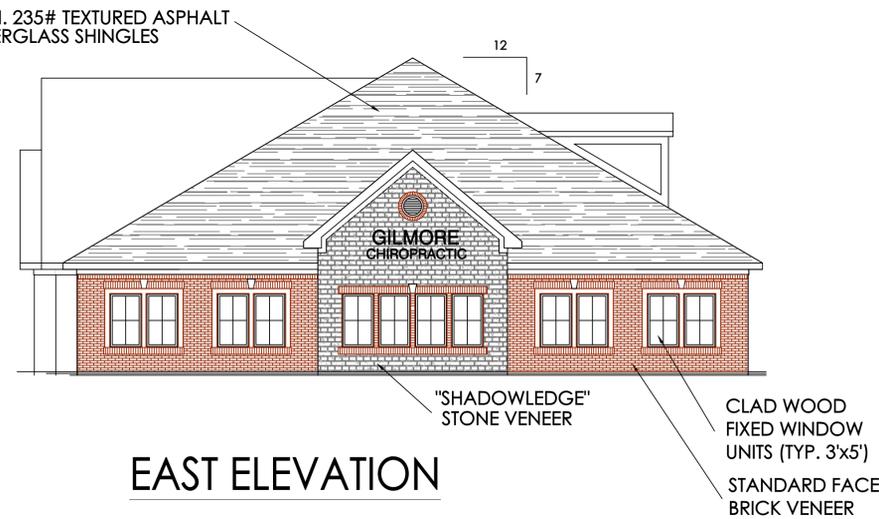


SOUTH ELEVATION

SCALE: 3/16" = 1'-0"



WEST ELEVATION



EAST ELEVATION

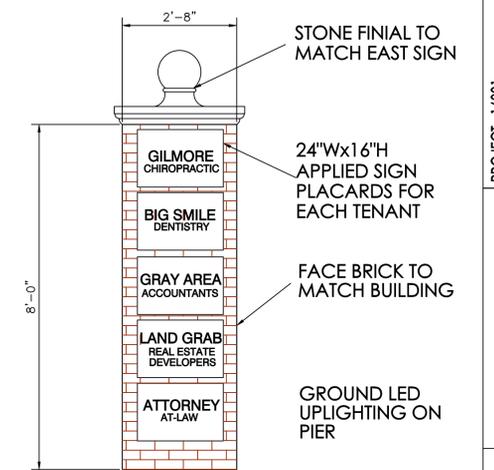


NORTH ELEVATION

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



TYPICAL BUILDING SIGNAGE



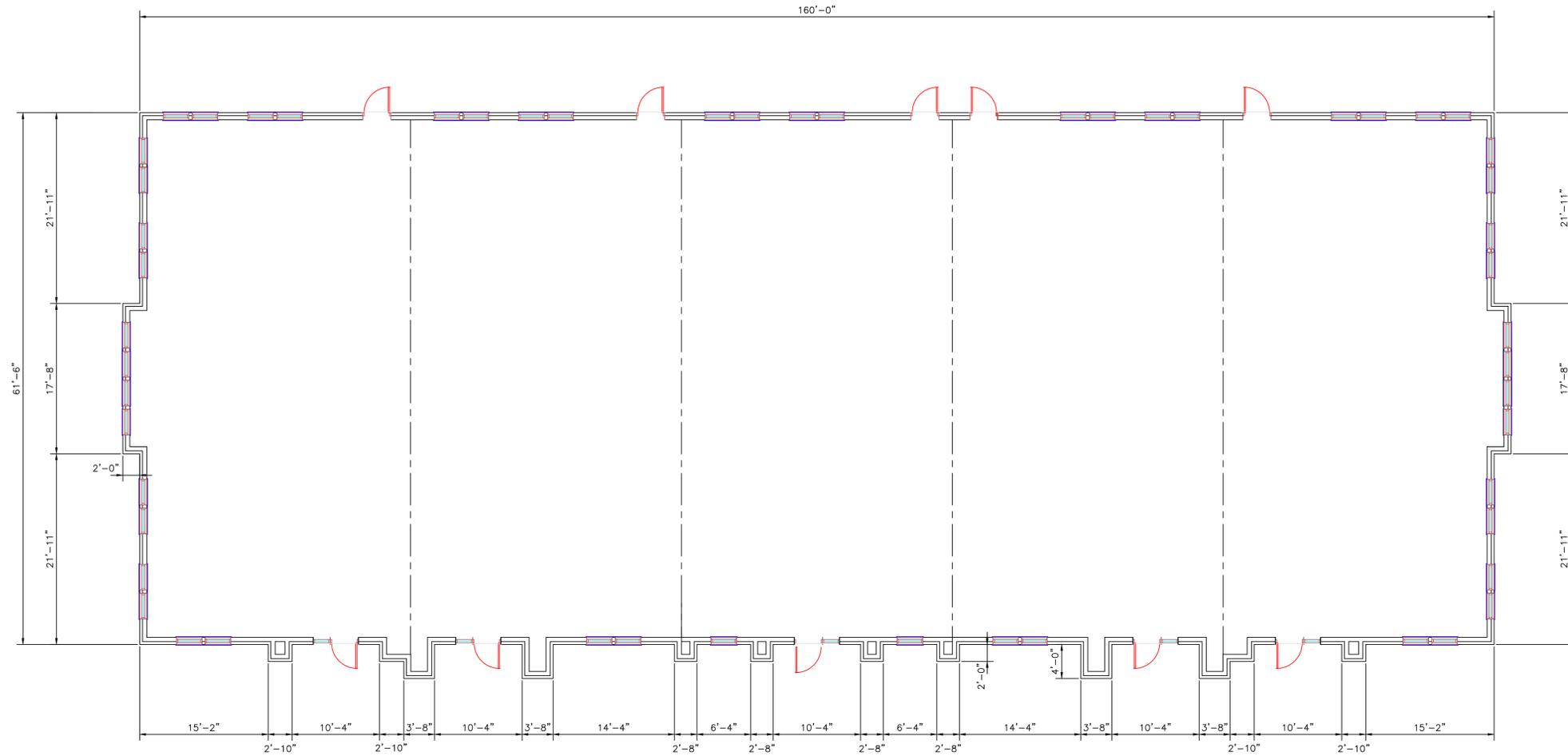
WEST ENTRY SIGN PIER

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 Do not scale these drawings. Architects with descriptions with Architect prior to construction.

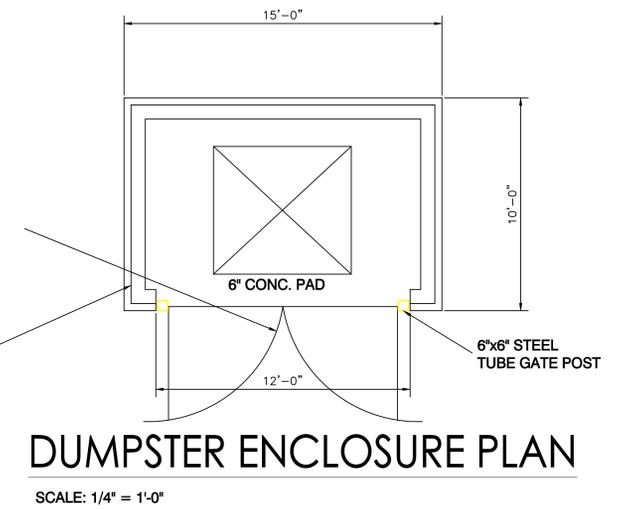
PROJECT: 16001
 DATE: 5 JULY 16
 REVISIONS:

RADRICK PROFESSIONAL BUILDING
 FOR DR. JUSTIN GILMORE
 WESTFIELD, INDIANA
 N. Gray Road & Radrick Dr.

r.e. Thomason & assoc., p.c.
 architecture & planning
 7202 East 67th Street, Suite 113
 Indianapolis, IN 46256
 317.913.2160
 fax: 317.913.2155

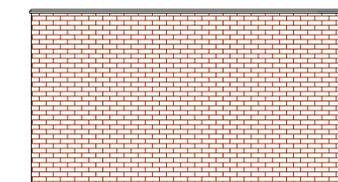


PROPOSED FLOOR PLAN

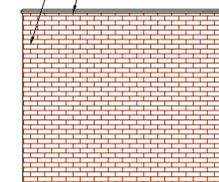


DUMPSTER ENCLOSURE PLAN

SCALE: 1/4" = 1'-0"

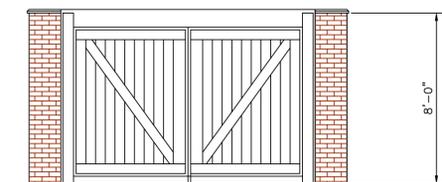


NORTH ELEVATION



WEST ELEVATION

EAST ELEVATION SIMILAR



SOUTH ELEVATION

SCALE: 1/4" = 1'-0"

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FOR DR. JUSTIN GILMORE
RADRICK PROFESSIONAL BUILDING
 WESTFIELD, INDIANA
 N. Gray Road & Radrick Dr.

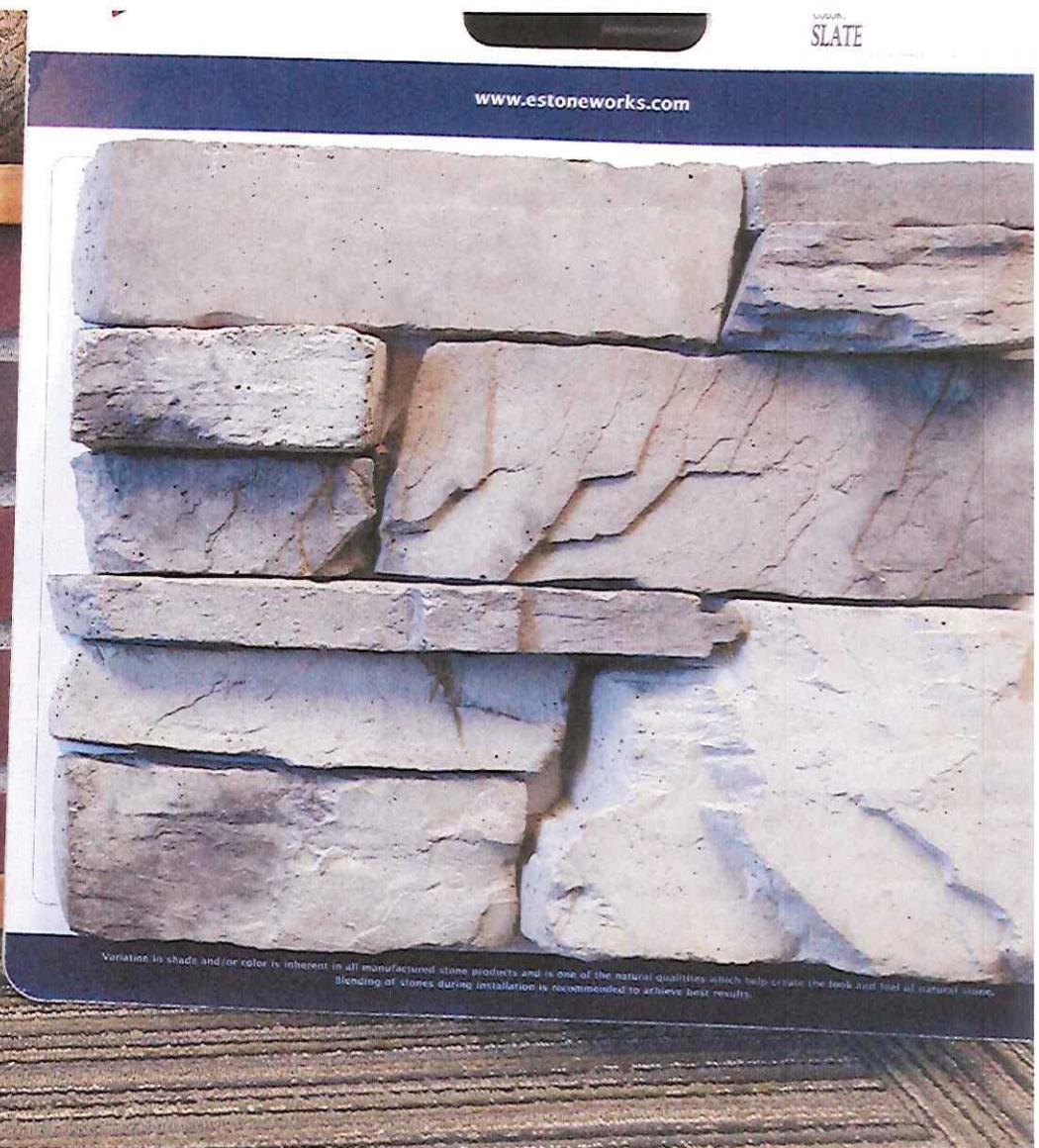
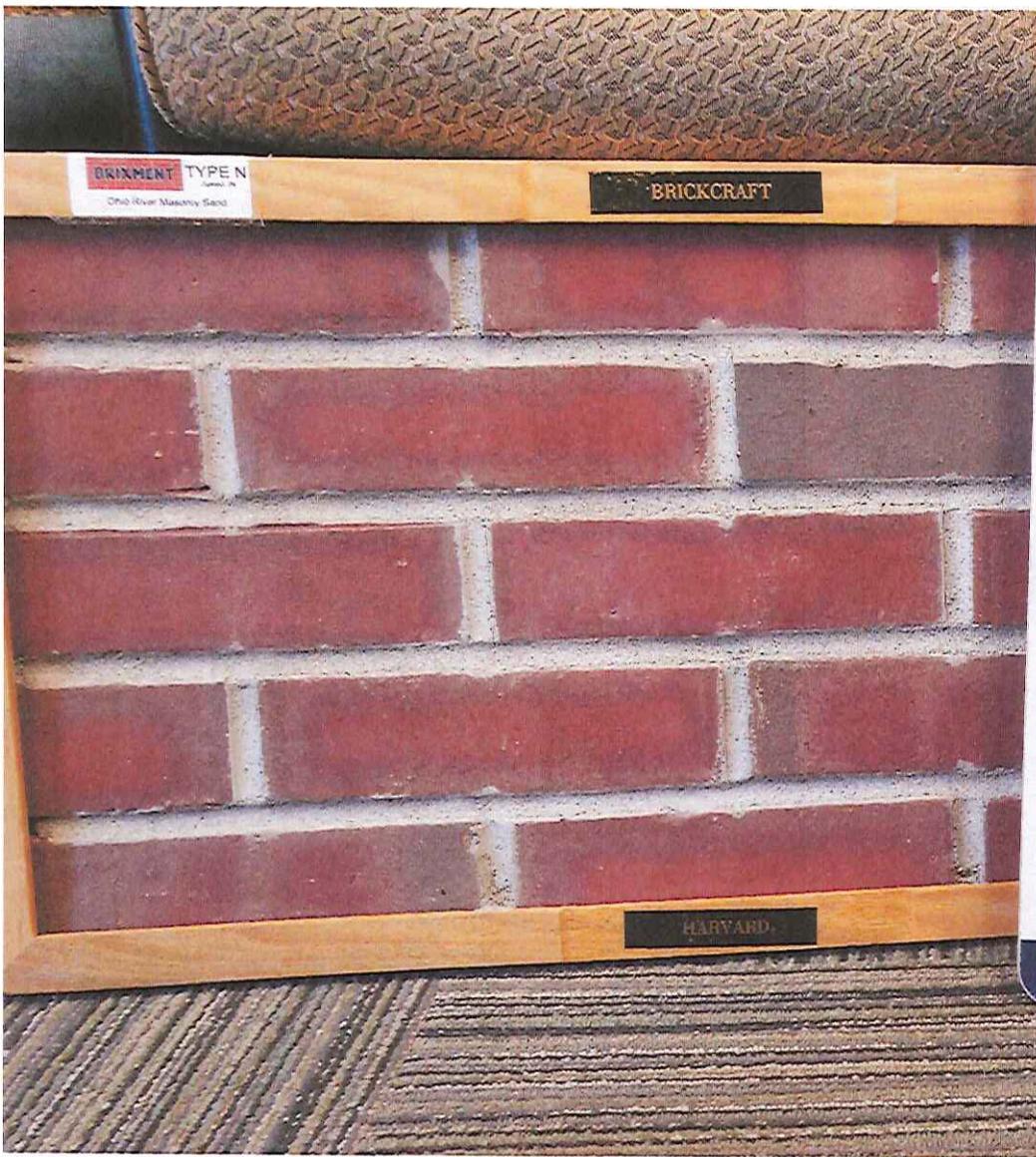
PROJECT: 1601
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PRELIMINARY DESIGN

A-2



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.