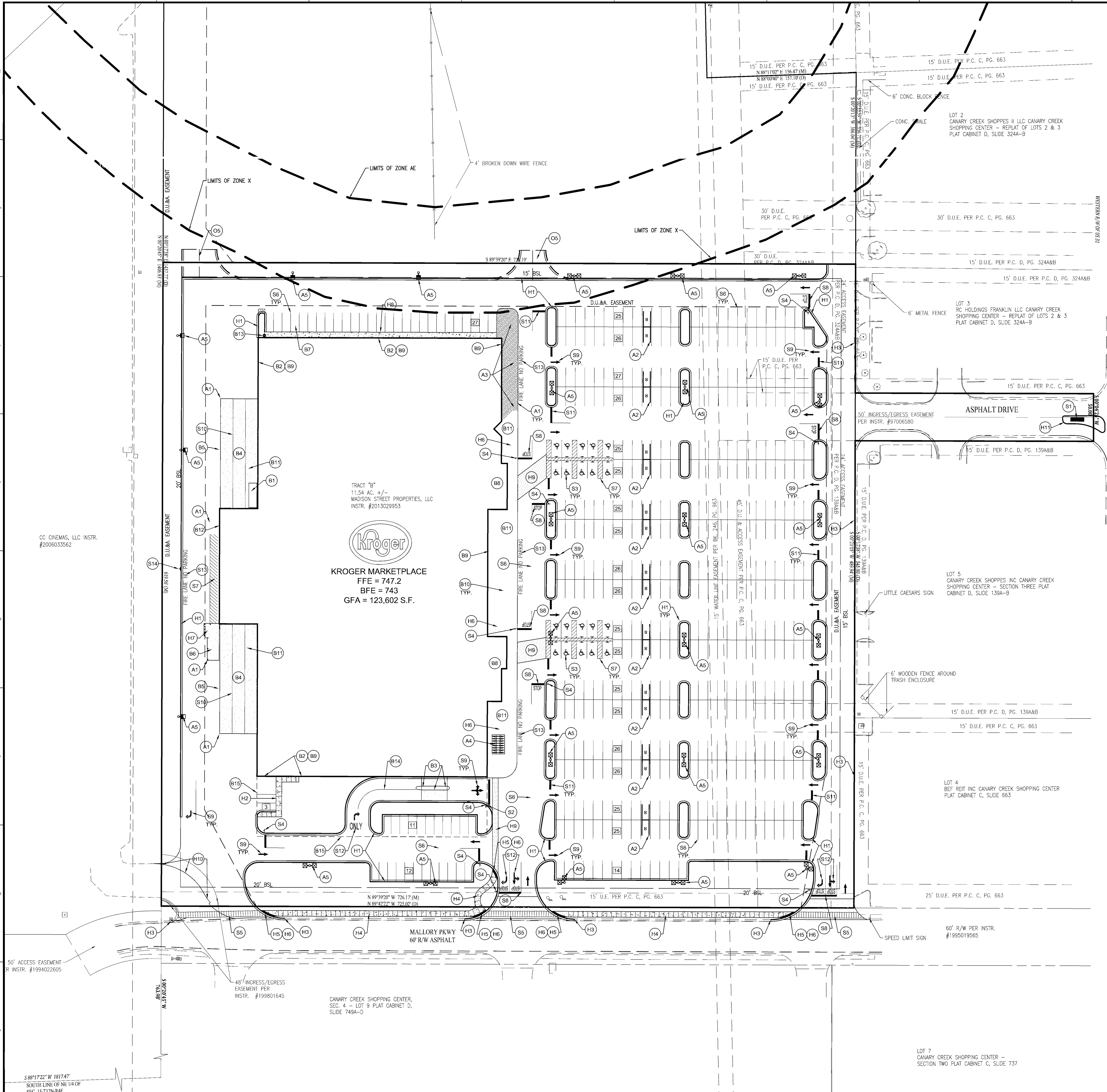


LOCATION: H:\2014\W140460\Engineering\design\conset\w140460-C200 site.dwg
LAYOUT: C2.01
DATE/TIME: February 12, 2015 - 7:28am
PLOTTED BY: schoeffb

SITE PLAN NOTES

HARDSCAPE

- H1 6" CURB AND GUTTER
- H2 CONCRETE WALK AND CURB. COORDINATE WITH ARCHITECTURAL PLANS.
- H3 MATCH EXISTING PAVEMENT ALIGNMENT AND ELEVATION
- H4 CONCRETE SIDEWALK
- H5 ADA ACCESSIBLE RAMP WITH DETECTABLE WARNING.
  - PRIVATE WARNINGS TO BE GROOVED CONCRETE
  - RIGHT OF WAY WARNINGS TO BE TRUNCATED DOMES
- H6 PAVEMENT FLUSH WITH SIDEWALK
- H7 TRANSFORMER PAD LOCATION
- H8 INTEGRAL WALK AND CURB (SITE SPECIFICATION)
- H9 STAMPED ASPHALT OR CONCRETE WALK AREA.
- H10 MATCH ASPHALT EDGE
- H11 NEW 6" TALL CONCRETE PORKCHOP ISLAND FOR THE SIGN

BUILDING ACCESSORIES

- B1 COMPACTOR ENCLOSURE
- B2 CONCRETE STOOP
- B3 DRIVE THROUGH PHARMACY ISLANDS AND EQUIPMENT
- B4 LOADING DOCK
- B5 LOADING DOCK RETAINING WALL
- B6 GENERATOR
- B7 GREASE INTERCEPTOR WITH H20 LOADING RATED COVERS, FLUSH WITH GRADE
- B8 ENTRANCE VESTIBULES
- B9 EXIT DOOR
- B10 ARCHITECTURAL BUILDING COLUMN OVERHANG ABOVE.
- B11 CONCRETE PER ARCHITECTURAL PLANS
  - STOREFRONT SIDEWALK - MIN. 5" DEPTH
  - FROST PADS - MIN. 5" DEPTH
  - CONCRETE PADS FOR Rx OR BANK LANES - MIN. 5" DEPTH
  - SLAB / PAD FOR FOR MECHANICAL HOUSINGS OR REFRIGERATION EQUIPMENT - MIN. 8" DEPTH
  - DUMPSTER / COMPACTOR PAD - MIN. 8" DEPTH
  - LANDSCAPE SIDEWALK - MIN. 4" DEPTH
- B12 DSD DOOR
- B13 GAS METER LOCATION
- B14 STACKING SPACE AT DRIVE THROUGH
- B15 LIMITS OF FUTURE BUILDING EXPANSION.

ACCESSORIES

- A1 BOLLARD (TYP. ON ALL)
- A2 CART CORRALS
- A3 2000 S.F. PUBLIC AREA REQUIRED BY CITY ORDINANCE. USE DECORATIVE STAMPED CONCRETE. REFER TO THE ARCHITECTURAL DRAWINGS FOR DETAILS.
- A4 BIKE RACK
- A5 LIGHT POLE AND BASE
  - ALL LIGHT POLES, FIXTURES, AND ANCHOR BOLTS ARE PROVIDED BY THE OWNER, KROGER, AND MUST BE COORDINATED, RECEIVED, HANDLED, ASSEMBLED, AND INSTALLED BY THE SITE CONTRACTOR. ALL WARRANTY WORK AND REPAIRS ARE THE SITE CONTRACTOR'S RESPONSIBILITY.

SIGNAGE & MARKINGS

- S1 KROGER MULTI-TENANT PYLON SIGN
- S2 SIGN "DO NOT ENTER"
- S3 ADA PARKING SPACE. ALL ADA STRIPING SHALL BE BLUE.
- S4 STOP SIGN
- S5 PEDESTRIAN CROSSWALK.
- S6 4" PAINTED YELLOW SOLID LINES (TYP)
- S7 4" PAINTED YELLOW SOLID LINE ISLAND. BLUE FOR ADA PARKING
- S8 24" PAINTED WHITE STOP BAR WITH "STOP" TEXT
- S9 PAINTED WHITE DIRECTIONAL TRAFFIC ARROWS
- S10 65' X4" WIDE PAINTED LINES FOR EACH OVERHEAD DOCK DOOR.
- S11 24" PAINTED WHITE STOP BAR
- S12 PAINTED WHITE SOLID LANE SPECIFIC DIRECTIONAL ARROWS WITH TEXT
- S13 PAINTED "FIRE LANE NO PARKING"
- S14 SIGN "FIRE LANE NO PARKING"

OFFSITE COORDINATION

- O1 REPLACE THE WHITE VINYL FENCE TO MATCH EXISTING
- O2 REPLACE THE WOOD PRIVACY FENCE TO MATCH EXISTING
- O3 PROVIDE A HEAVY DUTY PAVEMENT PATCH OVER THE STORM SEWER TRENCH PER SECTION 8 OF THE TOWN STANDARDS
- O4 REPLACE CURB AND GUTTER WITH SAME STYLE AND ELEVATION
- O5 FUTURE DRIVE TO THE NORTH ADJOINER. ACTUAL LOCATION AND DESIGN TO BE COMPLETED BY THE NORTHERN ADJOINER WHEN THEIR TRACT IS DEVELOPED.

PLAN CERTIFICATE NOTE:

ORIGINAL ALTA, TOPOGRAPHY, UTILITIES, STORM SEWERS, AND ALL OTHER EXISTING CONDITIONS ITEMS WERE PREPARED BY BANNING ENGINEERING.

FINAL DRAWINGS FOR THE KROGER SITE WERE PREPARED BY WEIHE ENGINEERS, INC. AND JAMES K. SHINNEMAN. FINAL CONSTRUCTION PLANS ARE THOSE PLANS CONTAINING A FINAL REVISION DATE AFTER 02/12/2015. WEIHE ENGINEERS, INC. AND JAMES K. SHINNEMAN ACCEPT RESPONSIBILITY ONLY FOR THE KROGER SITE IMPROVEMENTS RELATED TO THE ENGINEERING WORK SHOWN ON THESE PLANS.

SITE PLAN GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, OR VERIFYING THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY, AND STATE AGENCIES PRIOR TO STARTING CONSTRUCTION.
2. ALL QUANTITIES GIVEN ON THESE PRINTS, VERBALLY OR IN THE SCOPE OF WORK SECTION ARE ESTIMATES AND SHALL BE CONFIRMED BY THE BIDDING CONTRACTORS.
3. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS; FINAL RULE 29 CFR PART 1926, SUBPART "P" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH. IN ADDITION, EXCAVATION EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRE THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER.
4. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER AND CONTRACTOR TO MAINTAIN QUALITY CONTROL THROUGHOUT THIS PROJECT.
5. TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL STANDARDS.
6. BEARINGS, DIMENSIONS, AND EASEMENTS ARE SHOWN FOR REFERENCE ONLY. SEE RECORD SURVEYS AND PLATS FOR EXACT INFORMATION.
7. THE ENGINEER AND/OR OWNER DISCLAIM ANY ROLE IN THE CONSTRUCTION MEANS AND METHODS ASSOCIATED WITH THE PROJECT.
8. ALL DIMENSIONS ARE BASED ON FACE OF CURB OR BACK OF ROLL CURB OR FACE OF BUILDING.
9. SEE ARCHITECTURAL PLANS FOR DETAILS OF BUILDING, BUILDING DIMENSIONS, ATM RELATED DETAILS, AND SIGNAGE SPECIFICATIONS. DO NOT STAKE BUILDING FROM THESE PLANS.
10. COORDINATE CONSTRUCTION ACTIVITIES WITH ADJOINING WORK IF APPLICABLE. VERIFY EXTENT OF ADJOINING WORK AND COORDINATE AS REQUIRED.
11. FIELD VERIFY EXISTING CURBS AND TAPER PROPOSED VERTICAL CURBS TO MATCH WITHIN A MIN. OF THREE (3) FEET.
12. ± DIMENSIONS INDICATE FIELD DIMENSION ADJUSTMENT AREA BASED ON ACTUAL FIELD LAYOUT COORDINATES.
13. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
14. PROVIDE SMOOTH TRANSITION FROM NEWLY PAVED AREAS TO EXISTING AREAS AS NECESSARY. ALL AREAS WHERE PROPOSED PAVEMENT MEETS EXISTING PAVEMENT, THE EXISTING EDGE OF PAVEMENT SHALL BE FREE OF ALL LOOSE DEBRIS. THE EDGE OF EXISTING ASPHALT PAVEMENT SHALL BE PROPERLY SEALED WITH A TACK COAT MATERIAL IN ALL AREAS WHERE NEW ASPHALT PAVEMENT IS INDICATED TO JOIN EXISTING.
15. RESURFACE OR RECONSTRUCT AT LEAST TO ORIGINAL CONDITIONS ALL AREAS WHERE THE EXISTING PAVEMENT OR LAWNS ARE DAMAGED DURING CONSTRUCTION FROM TRAFFIC BY CONTRACTORS, SUBCONTRACTORS, OR SUPPLIERS AFTER CONSTRUCTION WORK IS COMPLETE.
16. THE CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION.
17. REFER TO ARCHITECTURAL PLANS FOR BUILDING ACCESSORY DETAILS.
18. REFER TO SHEET C2.03, C2.04, C2.05 FOR SITE PLAN DETAILS UNLESS OTHERWISE NOTED.

SITE DATA

SITE AREA = 11.54 AC
BUILDING AREA = 123,602 SF
ZONING = MXC & GW-OL
FRONT YARD BSL REQUIRED = 20 FT
REAR YARD BSL REQUIRED = 20 FT
SIDE YARD BSL REQUIRED = 15 FT

PARKING REQUIRED:
PARKING REQUIREMENT: 1 SPACE/300S.F. +1 PER EMPLOYEE ON LARGEST SHIFT (90± EMPLOYEES)
PARKING REQUIRED = 502 SPACES
PARKING DIMENSIONS = 9' x 20' or 10' x 20'
ADA PARKING SPACES = 20 (3.8% 0F TOTAL)
PARKING RATIO PROVIDED = 4.27 spaces / 1000 S.F.

OPEN SPACE:
PARKING & DRIVE AREA = 309,529 S.F.
(OPEN SPACE REQUIRED) = (5%)
OPEN SPACE PROVIDED = 16,886 S.F. = 5.5%

GENERAL SITE HARD SURFACE BUILDING, PARKING, DRIVES AND WALKS (MAX) = (75%)
PROVIDED = 444,729 S.F. = 88%

PARKING PROVIDED:
490 - STANDARD SPACES
+20 - ADA SPACES
510 - TOTAL SPACES
+18 - CART CORRALS
528 - TOTAL

SITE PLAN LEGEND

Symbol		Description
(sign symbol)	=	EXISTING SIGN
MB	=	MAILBOX
(light symbol)	=	EXISTING LIGHT
BOL	=	EXISTING BOLLARD
GP	=	GATE POST
(transformer symbol)	=	TRANSFORMER
(line)	=	RIGHT-OF-WAY LINE
R.O.W.	=	RIGHT-OF-WAY
F.F.E.	=	FINISH FLOOR ELEVATION
12	=	PARKING COUNT
♿	=	ADA PARKING
BSL	=	BUILDING SETBACK LINE
ESMT	=	EASEMENT
D&UE	=	DRAINAGE AND UTILITY EASEMENT
• PKF	=	EXISTING IRON PIN & OR PK (SET/FOUND)
(tree line)	=	EXISTING TREE LINE
(directional sign symbol)	=	PROPOSED DIRECTIONAL SIGN

SCALE: 1" = 50
0 25 50 100

811
Know what's below.
Call before you dig.
Within Indiana Call
811 or 800-382-5544
24 Hours a Day, 7 Days a Week.
PER INDIANA STATE LAW IC 8-1-26. IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

10505 N. College Avenue
Indianapolis, Indiana 46280
weihe.net
317 | 846 - 6611
800 | 452 - 6408
317 | 843 - 0546 fax
ALLAN H. WEIHE, P.E., L.S. - FOUNDER
WEIHE ENGINEERS
Land Surveying | Civil Engineering
Landscape Architecture

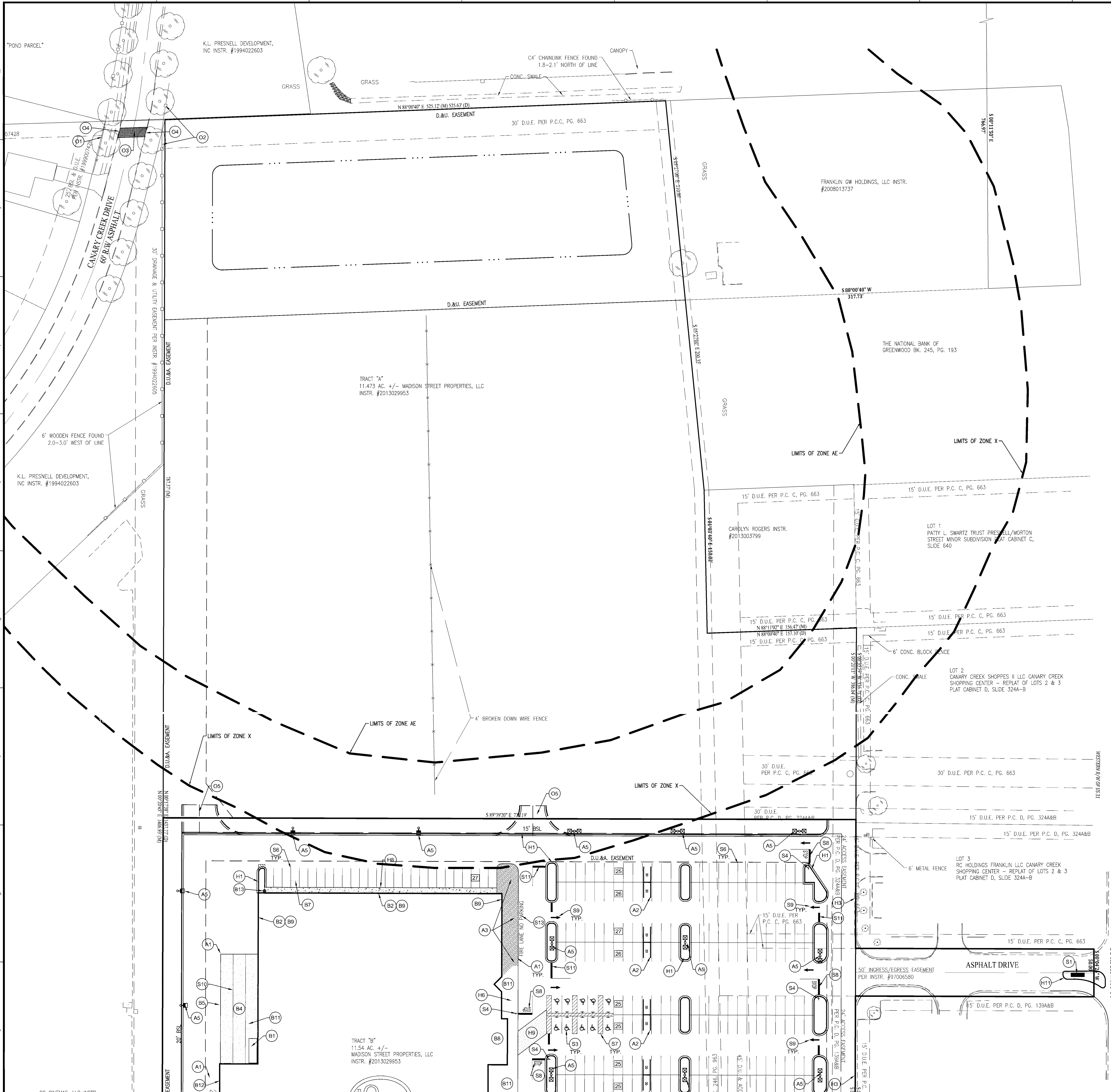
PROJECT NO.: W14.0460
DWG NAME: w140460-C200 site.dwg
DESIGNED BY: RLW/RAM
DRAWN BY: RLW/RAM
CHECKED BY: JKS
DATE: 02.12.2015

DATE	BY	REVISIONS AND ISSUES
02.12.2015	BJS	SUBMITTED FOR INITIAL REVIEW

JAMES K. SHINNEMAN REGISTERED No. 10200392 STATE OF INDIANA PROFESSIONAL ENGINEER
APPROVAL PENDING NOT FOR CONSTRUCTION
JAMES K. SHINNEMAN P.E. 10200392

PREPARED FOR:
KROGER STORE J-979
KROGER MARKETPLACE - MALLORY PARKWAY AND U.S. 31
SITE PLAN
Part of the NE/4 of Section 15, Township 12 North, Range 4 East, Franklin Township, Johnson County, Indiana

SHEET NO.
C2.01
PROJECT NO.
W14.0460



SITE PLAN NOTES

HARDSCAPE

- (H1) 6" CURB AND GUTTER
- (H2) CONCRETE WALK AND CURB. COORDINATE WITH ARCHITECTURAL PLANS.
- (H3) MATCH EXISTING PAVEMENT ALIGNMENT AND ELEVATION
- (H4) CONCRETE SIDEWALK
- (H5) ADA ACCESSIBLE RAMP WITH DETECTABLE WARNING.
  - PRIVATE WARNINGS TO BE GROOVED CONCRETE
  - RIGHT OF WAY WARNINGS TO BE TRUNCATED DOMES
- (H6) PAVEMENT FLUSH WITH SIDEWALK
- (H7) TRANSFORMER PAD LOCATION
- (H8) INTEGRAL WALK AND CURB (SITE SPECIFICATION)
- (H9) STAMPED ASPHALT OR CONCRETE WALK AREA.
- (H10) MATCH ASPHALT EDGE
- (H11) NEW 6" TALL CONCRETE PORKCHOP ISLAND FOR THE SIGN

BUILDING ACCESSORIES

- (B1) COMPACTOR ENCLOSURE
- (B2) CONCRETE STOOP
- (B3) DRIVE THROUGH PHARMACY ISLANDS AND EQUIPMENT
- (B4) LOADING DOCK
- (B5) LOADING DOCK RETAINING WALL
- (B6) GENERATOR
- (B7) GREASE INTERCEPTOR WITH H20 LOADING RATED COVERS, FLUSH WITH GRADE
- (B8) ENTRANCE VESTIBULES
- (B9) EXIT DOOR
- (B10) ARCHITECTURAL BUILDING COLUMN OVERHANG ABOVE.
- (B11) CONCRETE PER ARCHITECTURAL PLANS
  - STOREFRONT SIDEWALK - MIN. 5" DEPTH
  - FROST PADS - MIN. 5" DEPTH
  - CONCRETE PADS FOR Rx OR BANK LANES - MIN. 5" DEPTH
  - SLAB / PAD FOR FOR MECHANICAL HOUSINGS OR REFRIGERATION EQUIPMENT - MIN. 8" DEPTH
  - DUMPSTER / COMPACTOR PAD - MIN. 8" DEPTH
  - LANDSCAPE SIDEWALK - MIN. 4" DEPTH
- (B12) DSD DOOR
- (B13) GAS METER LOCATION
- (B14) STACKING SPACE AT DRIVE THROUGH
- (B15) LIMITS OF FUTURE BUILDING EXPANSION.

ACCESSORIES

- (A1) BOLLARD (TYP. ON ALL)
- (A2) CART CORRALS
- (A3) 2000 S.F. PUBLIC AREA REQUIRED BY CITY ORDINANCE. USE DECORATIVE STAMPED CONCRETE. REFER TO THE ARCHITECTURAL DRAWINGS FOR DETAILS.
- (A4) BIKE RACK
- (A5) LIGHT POLE AND BASE
  - ALL LIGHT POLES, FIXTURES, AND ANCHOR BOLTS ARE PROVIDED BY THE OWNER, KROGER, AND MUST BE COORDINATED, RECEIVED, HANDLED, ASSEMBLED, AND INSTALLED BY THE SITE CONTRACTOR. ALL WARRANTY WORK AND REPAIRS ARE THE SITE CONTRACTOR'S RESPONSIBILITY.

SIGNAGE & MARKINGS

- (S1) KROGER MULTI-TENANT PYLON SIGN
- (S2) SIGN "DO NOT ENTER"
- (S3) ADA PARKING SPACE. ALL ADA STRIPING SHALL BE BLUE.
- (S4) STOP SIGN
- (S5) PEDESTRIAN CROSSWALK.
- (S6) 4" PAINTED YELLOW SOLID LINES (TYP)
- (S7) 4" PAINTED YELLOW SOLID LINE ISLAND. BLUE FOR ADA PARKING
- (S8) 24" PAINTED WHITE STOP BAR WITH "STOP" TEXT
- (S9) PAINTED WHITE DIRECTIONAL TRAFFIC ARROWS
- (S10) 65' X4" WIDE PAINTED LINES FOR EACH OVERHEAD DOCK DOOR.
- (S11) 24" PAINTED WHITE STOP BAR
- (S12) PAINTED WHITE SOLID LANE SPECIFIC DIRECTIONAL ARROWS WITH TEXT
- (S13) PAINTED "FIRE LANE NO PARKING"
- (S14) SIGN "FIRE LANE NO PARKING"

OFFSITE COORDINATION

- (O1) REPLACE THE WHITE VINYL FENCE TO MATCH EXISTING
- (O2) REPLACE THE WOOD PRIVACY FENCE TO MATCH EXISTING
- (O3) PROVIDE A HEAVY DUTY PAVEMENT PATCH OVER THE STORM SEWER TRENCH PER SECTION 8 OF THE TOWN STANDARDS
- (O4) REPLACE CURB AND GUTTER WITH SAME STYLE AND ELEVATION
- (O5) FUTURE DRIVE TO THE NORTH ADJOINER. ACTUAL LOCATION AND DESIGN TO BE COMPLETED BY THE NORTHERN ADJOINER WHEN THEIR TRACT IS DEVELOPED.

SITE PLAN GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, OR VERIFYING THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY, AND STATE AGENCIES PRIOR TO STARTING CONSTRUCTION.
2. ALL QUANTITIES GIVEN ON THESE PRINTS, VERBALLY OR IN THE SCOPE OF WORK SECTION ARE ESTIMATES AND SHALL BE CONFIRMED BY THE BIDDING CONTRACTORS.
3. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS; FINAL RULE 29 CFR PART 1926, SUBPART "P" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH. IN ADDITION, EXCAVATION EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRE THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER.
4. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER AND CONTRACTOR TO MAINTAIN QUALITY CONTROL THROUGHOUT THIS PROJECT.
5. TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL STANDARDS.
6. BEARINGS, DIMENSIONS, AND EASEMENTS ARE SHOWN FOR REFERENCE ONLY. SEE RECORD SURVEYS AND PLATS FOR EXACT INFORMATION.
7. THE ENGINEER AND/OR OWNER DISCLAIM ANY ROLE IN THE CONSTRUCTION MEANS AND METHODS ASSOCIATED WITH THE PROJECT.
8. ALL DIMENSIONS ARE BASED ON FACE OF CURB OR BACK OF ROLL CURB OR FACE OF BUILDING.
9. SEE ARCHITECTURAL PLANS FOR DETAILS OF BUILDING, BUILDING DIMENSIONS, ATM RELATED DETAILS, AND SIGNAGE SPECIFICATIONS. DO NOT STAKE BUILDING FROM THESE PLANS.
10. COORDINATE CONSTRUCTION ACTIVITIES WITH ADJOINING WORK IF APPLICABLE. VERIFY EXTENT OF ADJOINING WORK AND COORDINATE AS REQUIRED.
11. FIELD VERIFY EXISTING CURBS AND TAPER PROPOSED VERTICAL CURBS TO MATCH WITHIN A MIN. OF THREE (3) FEET.
12. ± DIMENSIONS INDICATE FIELD DIMENSION ADJUSTMENT AREA BASED ON ACTUAL FIELD LAYOUT COORDINATES.
13. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
14. PROVIDE SMOOTH TRANSITION FROM NEWLY PAVED AREAS TO EXISTING AREAS AS NECESSARY. ALL AREAS WHERE PROPOSED PAVEMENT MEETS EXISTING PAVEMENT, THE EXISTING EDGE OF PAVEMENT SHALL BE FREE OF ALL LOOSE DEBRIS. THE EDGE OF EXISTING ASPHALT PAVEMENT SHALL BE PROPERLY SEALED WITH A TACK COAT MATERIAL IN ALL AREAS WHERE NEW ASPHALT PAVEMENT IS INDICATED TO JOIN EXISTING.
15. RESURFACE OR RECONSTRUCT AT LEAST TO ORIGINAL CONDITIONS ALL AREAS WHERE THE EXISTING PAVEMENT OR LAWNS ARE DAMAGED DURING CONSTRUCTION FROM TRAFFIC BY CONTRACTORS, SUBCONTRACTORS, OR SUPPLIERS AFTER CONSTRUCTION WORK IS COMPLETE.
16. THE CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION.
17. REFER TO ARCHITECTURAL PLANS FOR BUILDING ACCESSORY DETAILS.
18. REFER TO SHEET C2.03, C2.04, C2.05 FOR SITE PLAN DETAILS UNLESS OTHERWISE NOTED.

SITE DATA

SITE AREA = 11.54 AC
BUILDING AREA = 123,602 SF
ZONING = MXC & GW-OL
FRONT YARD BSL REQUIRED = 20 FT
REAR YARD BSL REQUIRED = 20 FT
SIDE YARD BSL REQUIRED = 15 FT

PARKING REQUIRED:
PARKING REQUIREMENT: 1 SPACE/300S.F. +1 PER EMPLOYEE ON LARGEST SHIFT (90± EMPLOYEES)
PARKING REQUIRED = 502 SPACES
PARKING DIMENSIONS = 9' x 20' or 10' x 20'
ADA PARKING SPACES = 20 (3.8% 0F TOTAL)
PARKING RATIO PROVIDED = 4.27 spaces / 1000 S.F.

OPEN SPACE:
PARKING & DRIVE AREA = 309,529 S.F.
(OPEN SPACE REQUIRED) = (5%)
OPEN SPACE PROVIDED = 16,886 S.F. = 5.5%

GENERAL SITE HARD SURFACE BUILDING, PARKING, DRIVES AND WALKS (MAX) = (75%)
PROVIDED = 444,729 S.F. = 88%

PARKING PROVIDED:
490 - STANDARD SPACES
+20 - ADA SPACES
510 - TOTAL SPACES
+18 - CART CORRALS
528 - TOTAL

SITE PLAN LEGEND

Symbol		Meaning
(sign symbol)	=	EXISTING SIGN
■ MB	=	MAILBOX
(light symbol)	=	EXISTING LIGHT
○ BOL	=	EXISTING BOLLARD
○ GP	=	GATE POST
⊠	=	TRANSFORMER
—·—·—	=	RIGHT-OF-WAY LINE
R.O.W.	=	RIGHT-OF-WAY
F.F.E.	=	FINISH FLOOR ELEVATION
12	=	PARKING COUNT
♿	=	ADA PARKING
BSL	=	BUILDING SETBACK LINE
ESMT	=	EASEMENT
D&UE	=	DRAINAGE AND UTILITY EASEMENT
• PKF	=	EXISTING IRON PIN & OR PK (SET/FOUND)
(tree line symbol)	=	EXISTING TREE LINE
(sign symbol)	=	PROPOSED DIRECTIONAL SIGN

PLAN CERTIFICATE NOTE:

ORIGINAL ALTA, TOPOGRAPHY, UTILITIES, STORM SEWERS, AND ALL OTHER EXISTING CONDITIONS ITEMS WERE PREPARED BY BANNING ENGINEERING.

FINAL DRAWINGS FOR THE KROGER SITE WERE PREPARED BY WEIHE ENGINEERS, INC. AND JAMES K. SHINNEMAN. FINAL CONSTRUCTION PLANS ARE THOSE PLANS CONTAINING A FINAL REVISION DATE AFTER 02/12/2015. WEIHE ENGINEERS, INC. AND JAMES K. SHINNEMAN ACCEPT RESPONSIBILITY ONLY FOR THE KROGER SITE IMPROVEMENTS RELATED TO THE ENGINEERING WORK SHOWN ON THESE PLANS.

SCALE: 1" = 50
0 25 50 100

811 Know what's below. Call before you dig.
Within Indiana Call
811 or 800-382-5544
24 Hours a Day, 7 Days a Week.
PER INDIANA STATE LAW IC 8-1-26. IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

10505 N. College Avenue
Indianapolis, Indiana 46280
weihe.net
317 | 846 - 6611
800 | 452 - 6408
317 | 843 - 0546 fax
ALLAN H. WEIHE, P.E., L.S. - FOUNDER

WEIHE ENGINEERS
Land Surveying | Civil Engineering
Landscape Architecture

PROJECT NO.: W14.0460
DWG NAME: w140460-C200 site.dwg
DESIGNED BY: RLW/RAM
DRAWN BY: RLW/RAM
CHECKED BY: JKS
DATE: 02.12.2015

REVISIONS AND ISSUES	DATE	BY
SUBMITTED FOR INITIAL REVIEW	02.12.2015	BJS

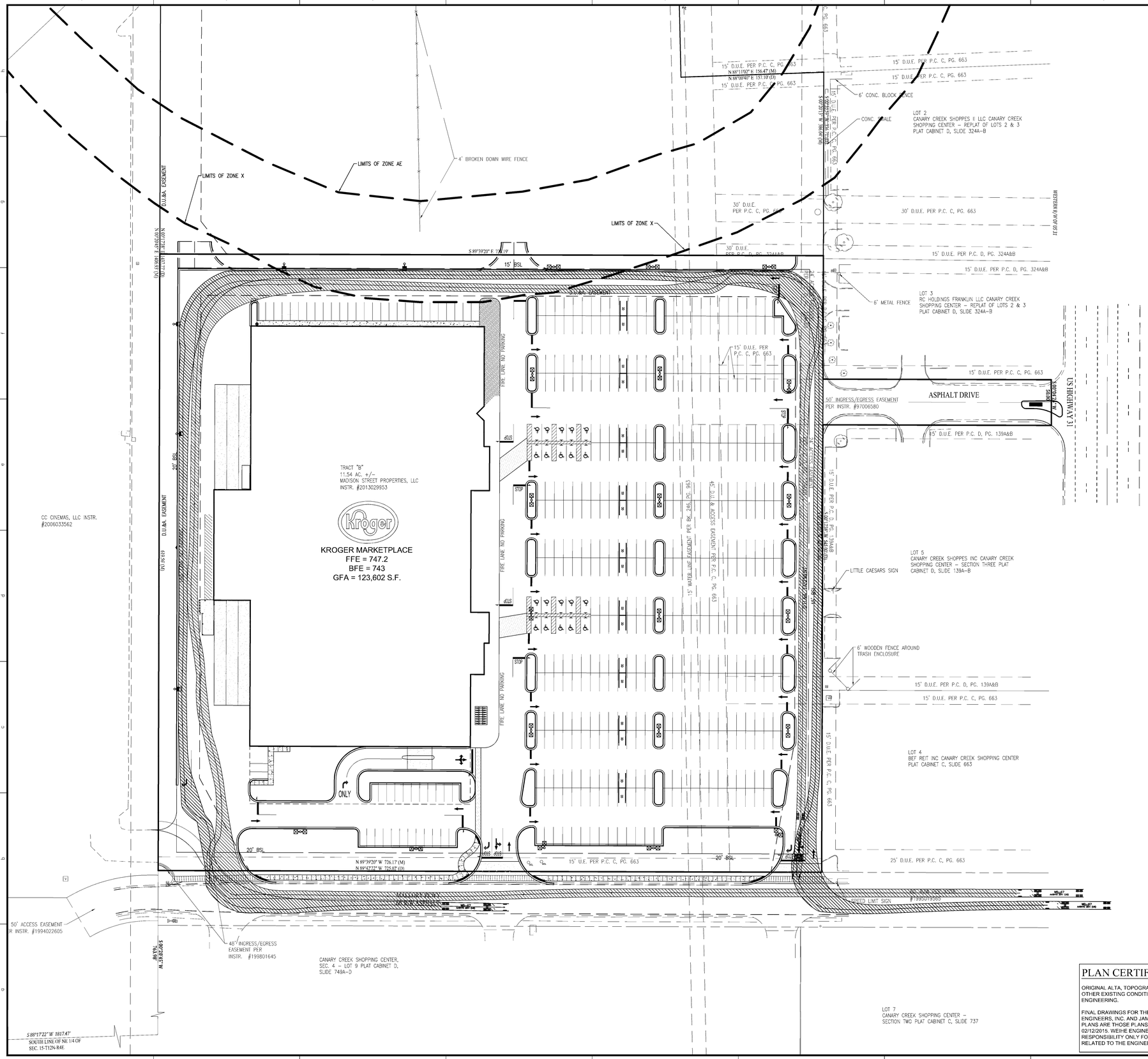
JAMES K. SHINNEMAN REGISTERED No. 10200392 STATE OF INDIANA PROFESSIONAL ENGINEER
APPROVAL PENDING NOT FOR CONSTRUCTION

JAMES K. SHINNEMAN P.E. 10200392

PREPARED FOR:
KROGER STORE J-979
KROGER MARKETPLACE - MALLORY PARKWAY AND U.S. 31
SITE PLAN
Part of the NE/4 of Section 15, Township 12 North, Range 4 East, Franklin Township, Johnson County, Indiana

SHEET NO. C2.02
PROJECT NO. W14.0460

LOCATION: H:\2014\W140460\Engineering\design\conset\w140460-C200 site.dwg
LAYOUT: C2.02
DATE/TIME: February 12, 2015 - 7:28am
PLOTTED BY: schoeffb



SITE PLAN LEGEND

▬	=	EXISTING SIGN
■MB	=	MAILBOX
⊛	=	EXISTING LIGHT
○BOL	=	EXISTING BOLLARD
○GP	=	GATE POST
⊠	=	TRANSFORMER
———	=	RIGHT-OF-WAY LINE
R.O.W.	=	RIGHT-OF-WAY
F.F.E.	=	FINISH FLOOR ELEVATION
12	=	PARKING COUNT
♿	=	ADA PARKING
BSL	=	BUILDING SETBACK LINE
ESMT	=	EASEMENT
D&UE	=	DRAINAGE AND UTILITY EASEMENT
• PK/F	=	EXISTING IRON PIN & OR PK (SET/FOUND)
∿∿∿	=	EXISTING TREE LINE
⇥	=	PROPOSED DIRECTIONAL SIGN

PLAN CERTIFICATE NOTE:

ORIGINAL ALTA, TOPOGRAPHY, UTILITIES, STORM SEWERS, AND ALL OTHER EXISTING CONDITIONS ITEMS WERE PREPARED BY BANNING ENGINEERING.

FINAL DRAWINGS FOR THE KROGER SITE WERE PREPARED BY WEIHE ENGINEERS, INC. AND JAMES K. SHINNEMAN. FINAL CONSTRUCTION PLANS ARE THOSE PLANS CONTAINING A FINAL REVISION DATE AFTER 02/12/2015. WEIHE ENGINEERS, INC. AND JAMES K. SHINNEMAN ACCEPT RESPONSIBILITY ONLY FOR THE KROGER SITE IMPROVEMENTS RELATED TO THE ENGINEERING WORK SHOWN ON THESE PLANS.

SCALE: 1" = 50

0 25 50 100

Know what's **below.** **Call** before you dig.
Within Indiana Call 811 or 800-382-5544
24 Hours a Day, 7 Days a Week.
PER INDIANA STATE LAW IC 8-1-26, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

WEIHE ENGINEERS
Land Surveying | Civil Engineering
Landscape Architecture
10505 N. College Avenue
Indianapolis, Indiana 46280
weihe.net
317 | 846 - 6611
800 | 452 - 6408
317 | 843 - 0546 *fax*
ALLAN H. WEIHE, P.E., L.S. - FOUNDER

REVISIONS AND ISSUES	DATE	BY
SUBMITTED FOR INITIAL REVIEW	02.12.2015	BJS

PROJECT NO.: W14.0460
DWG. NAME: w14046D-C2D3 site.dwg
DESIGNED BY: RJW/SAM
DRAWN BY: RJW/SAM
CHECKED BY: JKS
DATE: 02.12.2015

JAMES K. SHINNEMAN
REGISTERED NO. 10200392
STATE OF INDIANA
A PROFESSIONAL ENGINEER

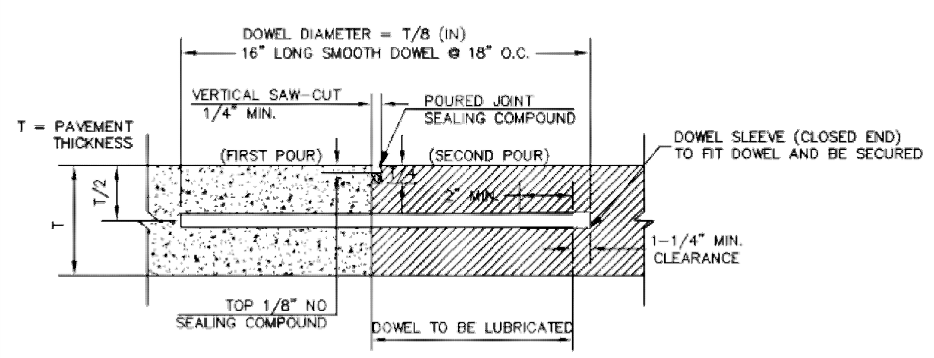
JAMES K. SHINNEMAN P.E. 10200392

PREPARED FOR:
KROGER STORE J-979
KROGER MARKETPLACE - MALLORY PARKWAY AND U.S. 31
TRUCK ROUTING PLAN
Part of the NE¼ of Section 15, Township 12 North, Range 4 East, Franklin Township, Johnson County, Indiana

SHEET NO.
C2.03

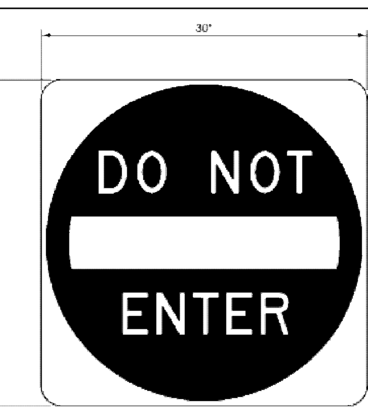
PROJECT NO.
W14.0460

LOCATION: I:\W14\W14046D\Engineering\design\xcorset\w14046D-C200 site.dwg
LAYOUT: C2.03
DATE/TIME: February 12, 2015 – 7:29am
PLOTTED BY: Schoettle



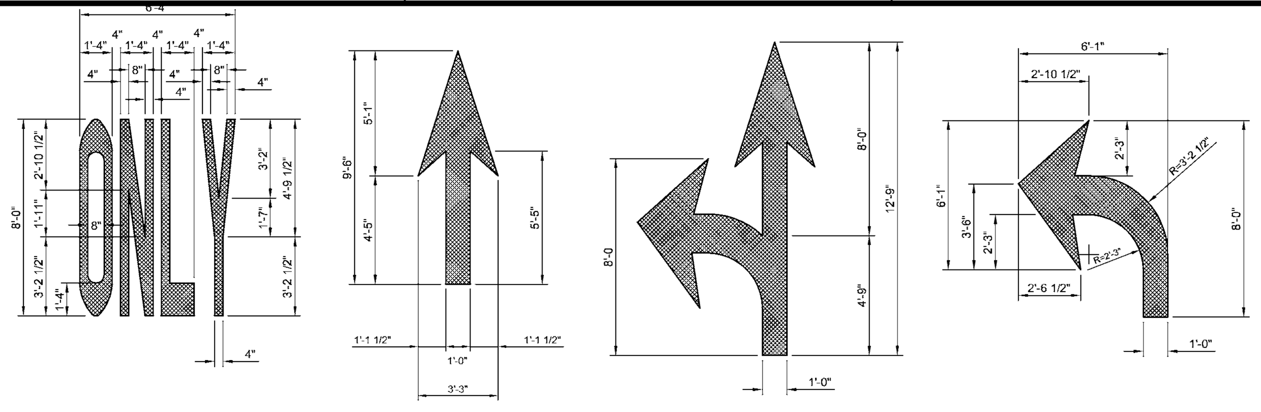
NOTE:
1. DOWELS SHALL BE SUPPORTED BY AN APPROVED DEVICE.

CONSTRUCTION JOINT
(NO SCALE)



NOTE:
SIGN IS TO BE MOUNTED ON GALVANIZED STEEL U-POST AND MEET IN.D.O.T. AND INDIANA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.

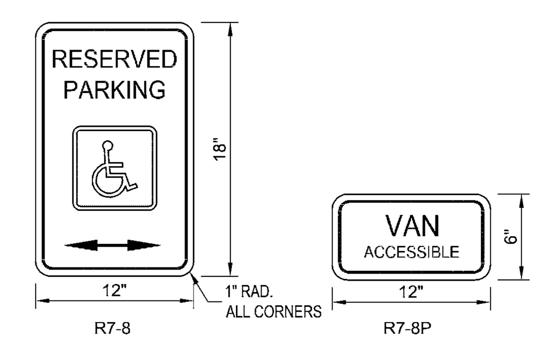
DO NOT ENTER SIGN
(NO SCALE)



NOTE:
LANE CONTROL ARROWS SHALL BE WHITE AND SHALL BE PLACED IN ACCORDANCE WITH IMUTCD. THE ARROW SHOULD BE 20 FEET IN ADVANCE OF THE STOPLINE. THE WORD "ONLY" SHOULD BE LOCATED IN ADVANCE OF THE PAVEMENT ARROW.

TRAFFIC MARKING DETAILS
(NO SCALE)

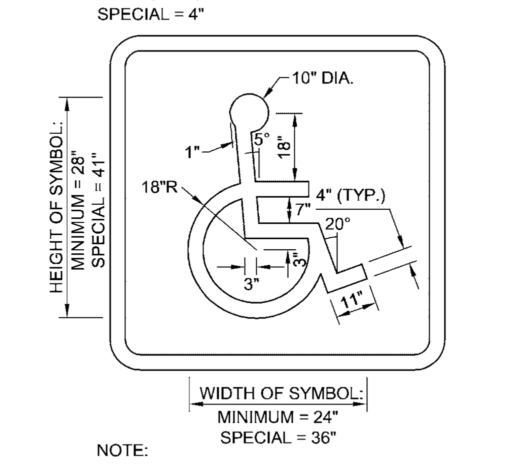
NOTE:
TYPICAL SIZES FOR NORMAL INSTALLATION; SIZES MAY BE REDUCED APPROXIMATELY ONE-THIRD FOR LOW-SPEED URBAN CONDITIONS.



NOTE:
12"X18" 18 GAUGE HOT DIP GALVANIZED NON-REFLECTIVE SIGN WITH 12' POST DRIVEN 4 FEET INTO GROUND. POST SHALL BE 12' LONG GALVANIZED 2 1/2" OD STEEL POSTS. SET BOTTOM OF SIGN 7' ABOVE GRADE.
NOTE:
WHERE PARKING SPACES THAT ARE RESERVED FOR PERSONS WITH DISABILITIES ARE DESIGNATED TO ACCOMMODATE WHEELCHAIR VANS, A VAN ACCESSIBLE (R7-8P) PLAQUE SHALL BE MOUNTED BELOW THE R7-8 SIGN. THE R7-8SIGN SHALL HAVE A GREEN LEGEND AND BORDER AND A WHITE WHEELCHAIR SYMBOL ON A BLUE SQUARE ALL ON A WHITE BACKGROUND. THE R7-8P PLAQUE SHALL HAVE A GREEN LEGEND AND BORDER ON A WHITE BACKGROUND.

ADA SIGNS
(NO SCALE)

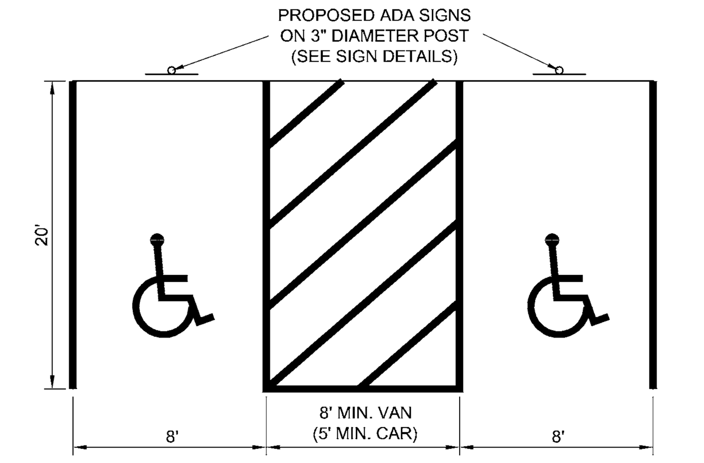
NOTE:
ALL STRIPES TO BE PAINTED WHITE.
MINIMUM = 3"
SPECIAL = 4"



NOTE:
BLUE BACKGROUND AND WHITE BORDER ARE OPTIONAL

ADA PARKING SYMBOL DETAIL
(NO SCALE)

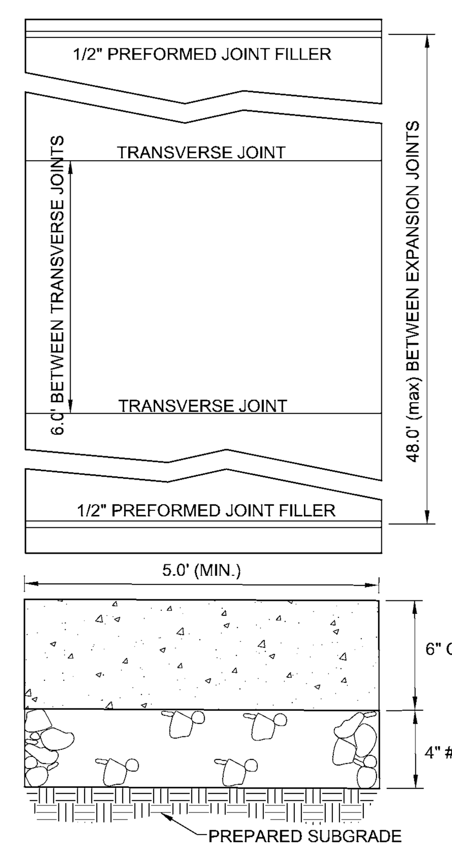
NOTE:
ALL PAINT TO BE BLUE NON-SKID SURFACE APPLICATION OF CILICA SAND OR GLASS BEAD BY METHOD OF MIXTURE AND OR BROADCASTING.



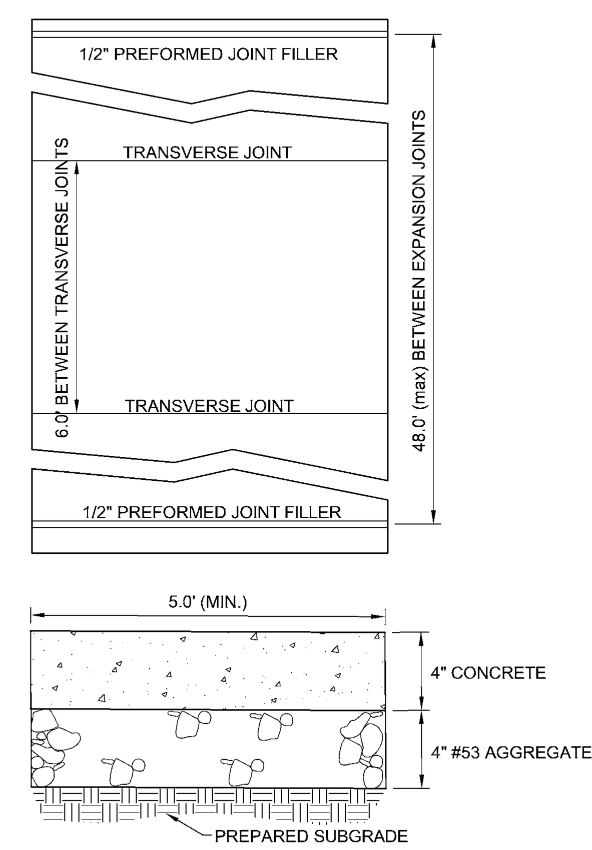
"ADA" PARKING SPACES
(NO SCALE)

"FUEL TRUCK ONLY" SIGN
(NO SCALE)

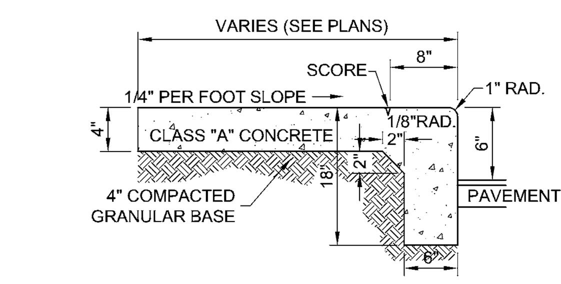
"NO PARKING - FIRE LANE" SIGN
(NO SCALE)



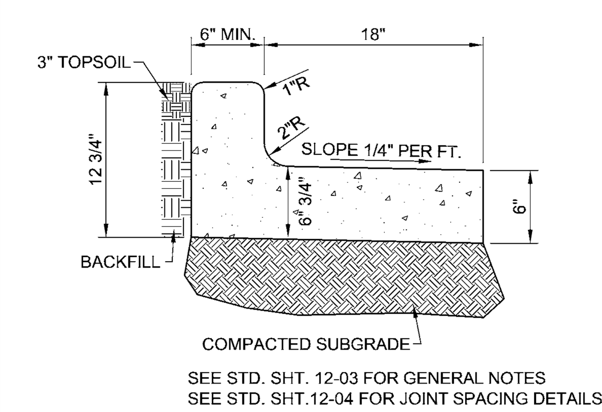
SIDEWALK SECTION - DRIVEWAY CROSSING
(NO SCALE)



TYPICAL SIDEWALK SECTION
(NO SCALE)

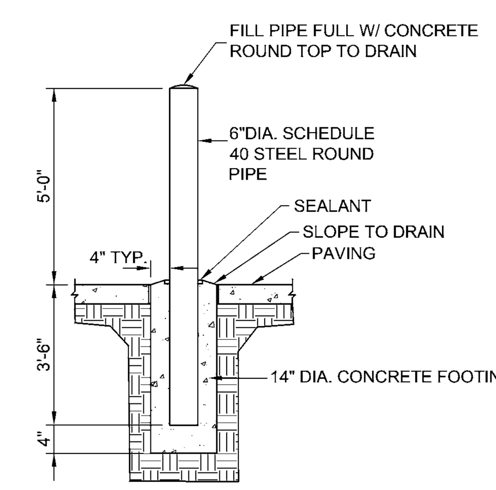


INTEGRAL WALK AND CURB DETAIL
(NO SCALE)

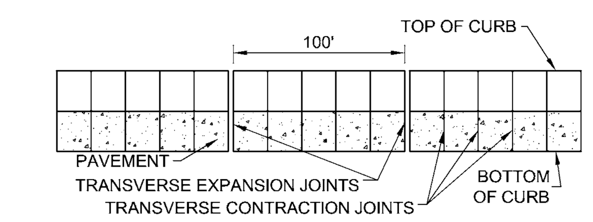


SEE STD. SHT. 12-03 FOR GENERAL NOTES
SEE STD. SHT.12-04 FOR JOINT SPACING DETAILS

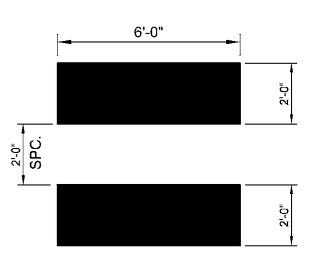
COMBINED CONCRETE CURB & GUTTER
TYPE III
(NO SCALE)



PIPE BOLLARD DETAIL
(NO SCALE)

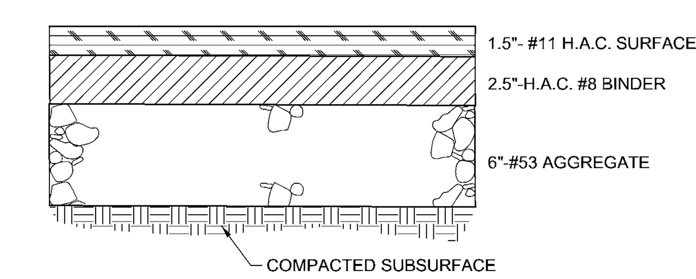


CURB JOINT DETAIL
(NO SCALE)

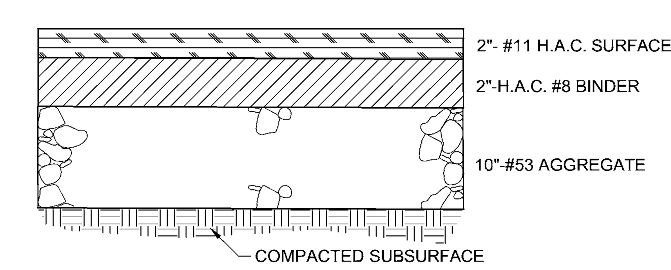


NOTES:
- CONTRACTOR SHALL PROPERLY RE-ALIGN STOP BARS AND OTHER PAVEMENT MARKERS AS NECESSARY TO INSTALL CROSSWALK.
- CROSSWALK STRIPES SHALL BE APPLIED IN ACCORDANCE WITH MUNICIPAL STANDARDS.
- STRIPES ARE THERMOPLASTIC WHITE WITHIN R.O.W.; OTHERWISE PAINTED WHITE.
- CONTRACTOR SHALL APPLY LONG LIFE MARKING MATERIALS ONLY.

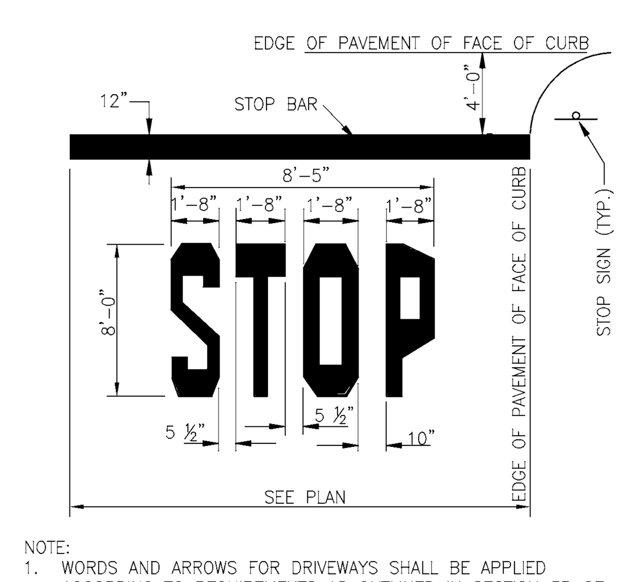
PEDESTRIAN CROSSWALK
(NO SCALE)



STANDARD DUTY ASPHALT PAVING SECTION
(NO SCALE)

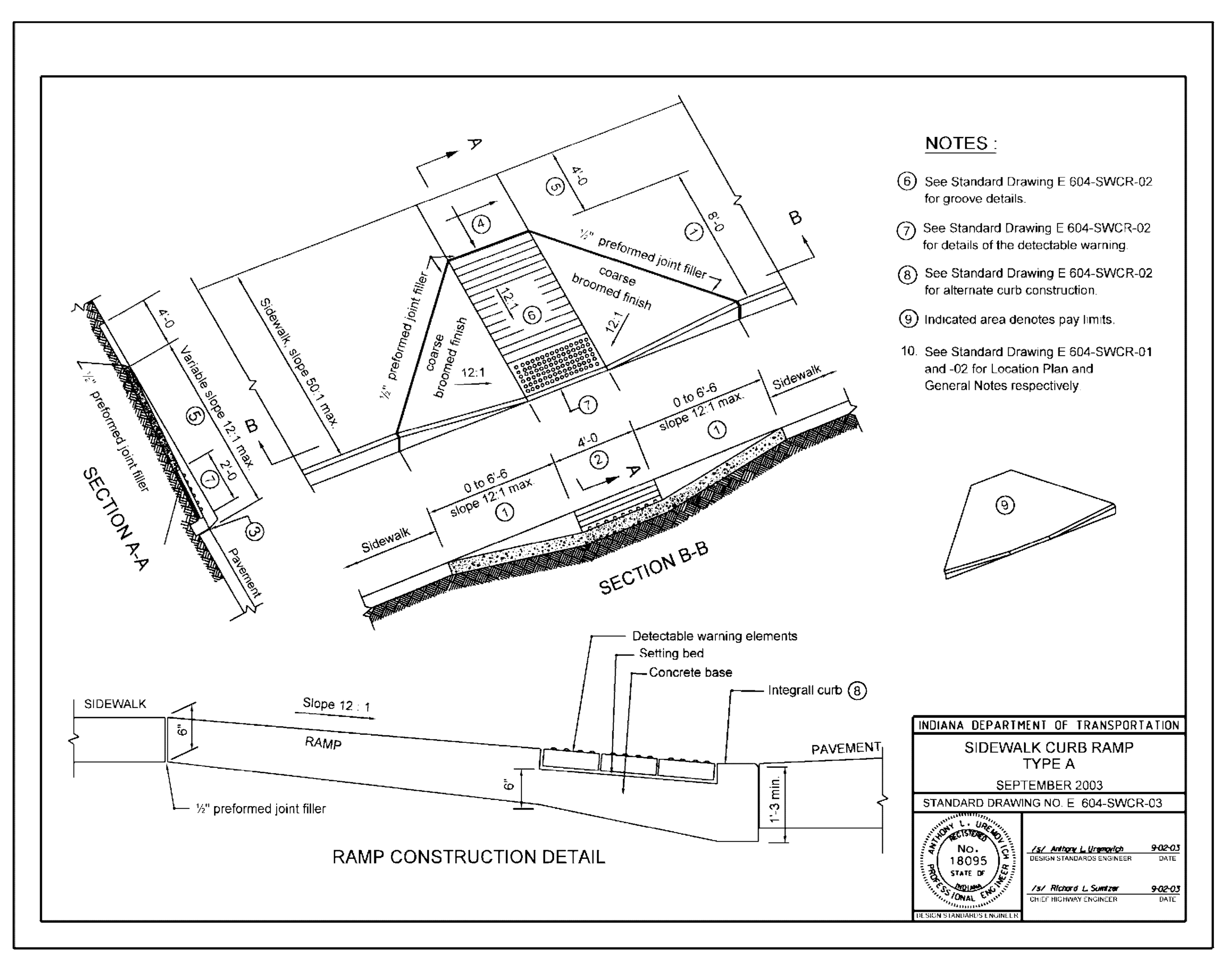


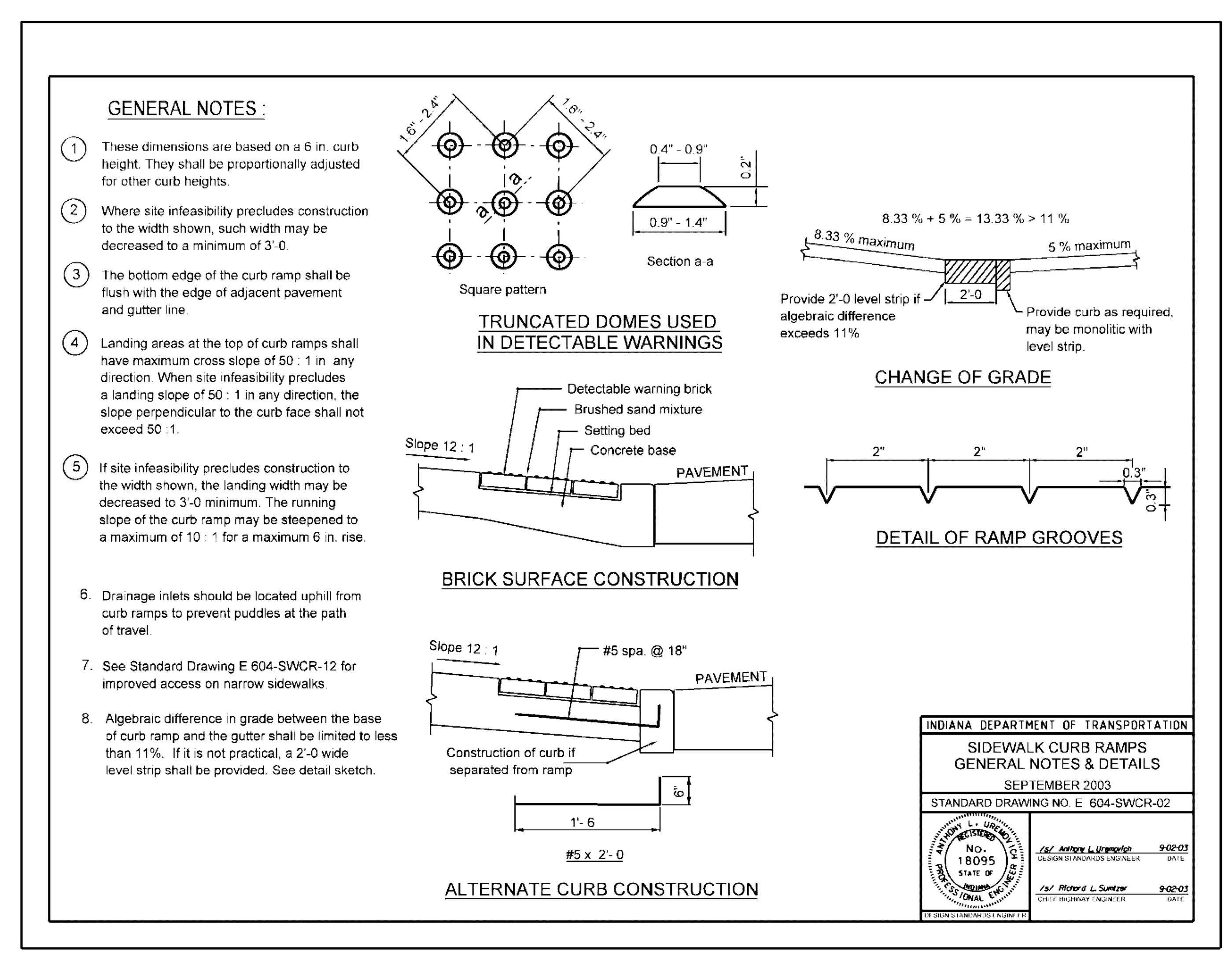
HEAVY DUTY ASPHALT PAVING SECTION
(NO SCALE)
NOTE: THE AGGREGATE BASE COURSE SHOULD CONTAIN NO MORE THAN 10% FINES AND BE WELL-GRADED



NOTE:
1. WORDS AND ARROWS FOR DRIVEWAYS SHALL BE APPLIED ACCORDING TO REQUIREMENTS AS OUTLINED IN SECTION 3B OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS
2. THESE WORDS AND BAR ARE TO BE PAINTED REFLECTIVE WHITE.

STOP BAR





10505 N. College Avenue
Indianapolis, Indiana 46280
weihe.net
317 | 846 - 6611
800 | 452 - 6408
317 | 843 - 0546 *fax*
ALLAN H. WEIHE, P.E., L.S. - FOUNDER
WEIHE ENGINEERS
Land Surveying | Civil Engineering
Landscape Architecture

PROJECT NO.:	DWG NAME:	DESIGNED BY:	DRAWN BY:	CHECKED BY:	DATE:
W14.0460	w140460-C201 site det.dwg	RLW/RAM	RLW/RAM	JKS	02.12.2015

DATE	BY	REVISIONS AND ISSUES
02.12.2015	BJS	SUBMITTED FOR INITIAL REVIEW

JAMES K. SHINNEMAN REGISTERED No. 10200392 STATE OF INDIANA PROFESSIONAL ENGINEER
APPROVAL PENDING NOT FOR CONSTRUCTION
JAMES K. SHINNEMAN P.E. 10200392

PREPARED FOR:
KROGER STORE J-979
KROGER MARKETPLACE - MALLORY PARKWAY AND U.S. 31
SITE DETAILS
Part of the NE/4 of Section 15, Township 12 North, Range 4 East, Franklin Township, Johnson County, Indiana

SHEET NO.
C2.04
PROJECT NO.
W14.0460

LOCATION: H:\2014\W140460\Engineering\design\conset\w140460-C201 site det.dwg
LAYOUT: C2.04
DATE/TIME: February 12, 2015 - 7:29am
PLOTTED BY: schoeffb

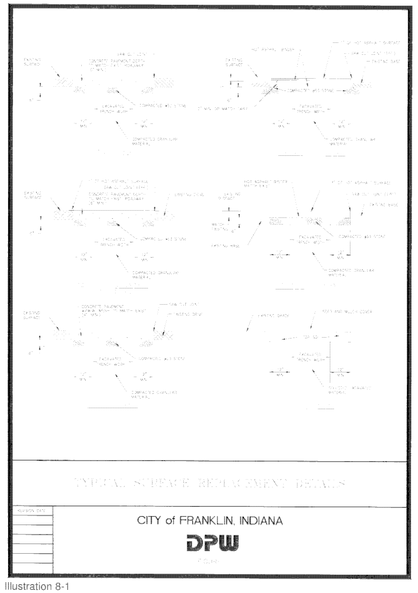
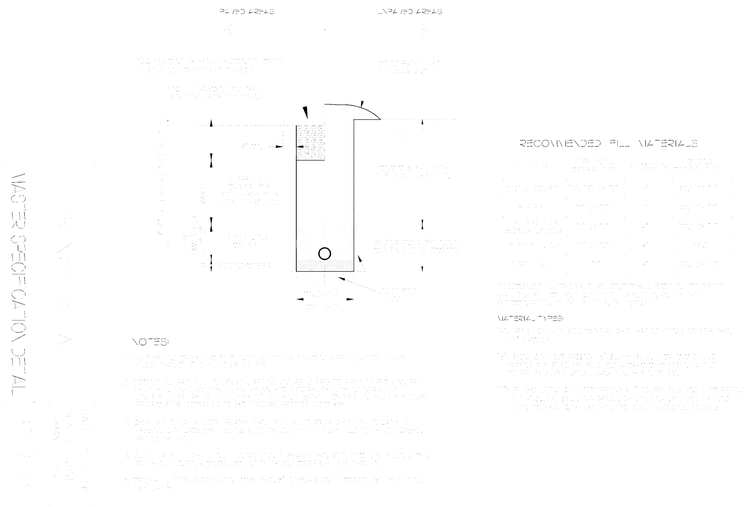
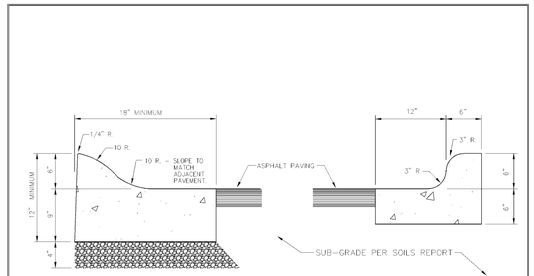


Illustration 8-1





NOTES:

1. SLOPE ON GUTTER SHOULD BE MINIMUM OF 0.6%. SLOPE SHALL PROMOTE POSITIVE DRAINAGE TO DRAINAGE STRUCTURES. SLOPE TOWARDS OR AWAY FROM CURB AS REQUIRED. (REVERSE SLOPE WHEN APPLICABLE.)
2. EXPANSION JOINT: PLACE AT ENDS OF ALL RADII, 5'-0" ON EACH SIDE OF DRAINAGE STRUCTURES, AND AT 90'-0" MAXIMUM INTERVALS IN STRAIGHT CURB AND GUTTER. PROVIDE #6 x 18" LONG SMOOTH STEEL DOWEL BARS, WITH 1" DIA. GREASE CAP THROUGH EXPANSION JOINTS. (3/4" THICK BITUMINOUS FILLER MATERIAL).
3. CONTRACTION JOINT: PROVIDE 2" DEEP x 1/8" WIDE CONTRACTION JOINT AT 15'-0" INTERVALS.
4. 2'-6" LONG TIE BAR ON 2'-6" CENTERS SHALL BE PROVIDED WHEN CURB IS ADJACENT TO P.C.C. PAVEMENT.
5. PROVIDE (2) #6 x 2'-6" LONG TIE BARS TO CONNECT EXISTING AND NEW CURB AND GUTTER.
6. REMOVE FORMS AS EARLY AS POSSIBLE. BRUSH TOP AND FACE OF CURBS TO REMOVE ALL IMPERFECTIONS. TYPICAL OF ALL FORM WORK.
7. ALL RADII SHALL BE TRUE ARCS.
8. MEDIUM TO LIGHT BROOM FINISH ON ALL EXTERIOR CONCRETE.

CONCRETE CURB AND GUTTER	DATE: 12-19-07 SCALE: NONE DRAWN: JFQ
MASTER SPECIFICATION DETAIL	CSD-1

DOUBLE SIDED FREE STANDING PYLON

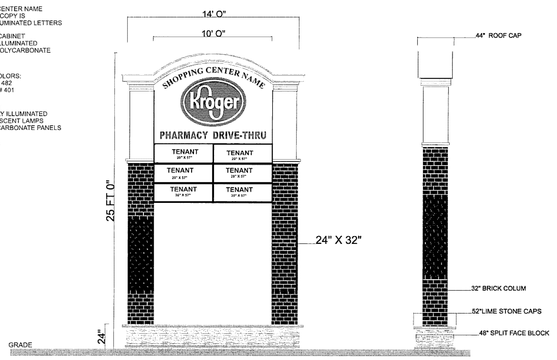
THE SHOPPING CENTER NAME AND PHARMACY COPY IS ROUTED OUT ILLUMINATED LETTERS

KROGER LOGO CABINET WILL BE L.E.D. ILLUMINATED WITH FORMED POLYCARBONATE FACE PANELS

POLE COVER AND CABINET COLORS: LT. TAUPE: PMS# 482 DK. TAUPE: PMS# 401

TENANT CABINET TO BE INTERNALLY ILLUMINATED WITH H.O. FLORESCENT LAMPS WITH FLAT POLYCARBONATE PANELS

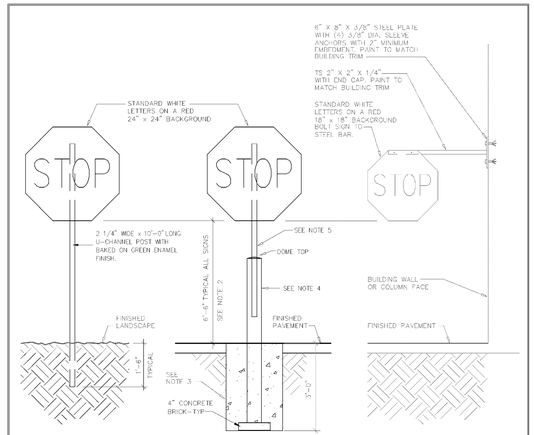
BRICK COLUMNS AROUND POLES PER DRAWINGS



Project: Kroger
Address: Franklin IN
City / State:
Design I.D.: 020315Pylon2
Scale: 1/8" = 1'-0" PHOTO ELEV. NOT TO SCALE
Account Rep: Danny Gayde
Request I.D.
Design Date: January 30-15
Photo I.D.
Client Approval:

© All artwork, design concepts, engineering drawings and reproductions are copyrighted and the property of Sign Doc Identity LLC. Any unauthorized use or copy of this material without prior knowledge and consent of Signdoc Identity LLC. management is forbidden. Customer will be responsible for all legal action and compensation.

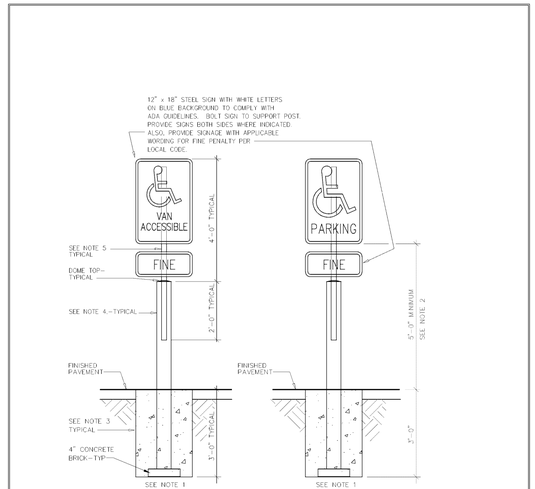
"When Dependability Matters" Sign Doc IDENTITY LLC. (317) 247.9670 877-381-SIGN 7446



NOTES:

1. INSTALL ALL SIGNS WHERE INDICATED ON SITE PLAN.
2. ADJUST MOUNTING HEIGHTS TO MEET LOCAL CODES WHERE APPLICABLE.
3. SET ALL POSTS IN 16" DIAMETER x 36" DEEP CONCRETE FOUNDATION.
4. 4" x 6'-0" CONCRETE FILLED SCHEDULE 40 STEEL POST CENTERED IN FOUNDATION, PAINTED YELLOW, SEE SPECS.
5. 2 1/4" WIDE x 6'-0" LONG U-CHANNEL POST WITH BAKED ON GREEN ENAMEL FINISH.
6. LIGHT DUTY -- LANDSCAPED AREAS and AREAS NOT SUBJECT TO VEHICULAR TRAFFIC. HEAVY DUTY -- PAVED AREAS and AREAS SUBJECT TO VEHICULAR TRAFFIC or NOT PROTECTED IN LANDSCAPED AREAS.

TRAFFIC CONTROL SIGNS	DATE: 8/8/11 SCALE: NONE DRAWN: ZAW
MASTER SPECIFICATION DETAIL	CSD-60



NOTES:

1. INSTALL ALL SIGNS WHERE INDICATED ON SITE PLAN.
2. ADJUST MOUNTING HEIGHTS TO MEET LOCAL CODES WHERE APPLICABLE.
3. SET ALL POSTS IN 10" DIAMETER x 36" DEEP CONCRETE FOUNDATION.
4. 4" x 6'-0" CONCRETE FILLED SCHEDULE 40 STEEL POST CENTERED IN FOUNDATION, PAINTED YELLOW, SEE SPECS.
5. 2 1/4" WIDE x 6'-0" LONG U-CHANNEL POST WITH BAKED ON GREEN ENAMEL FINISH.

PARKING STALL SIGNS	DATE: 8/8/11 SCALE: NONE DRAWN: ZAW
MASTER SPECIFICATION DETAIL	CSD-61

* ALL DETAILS SHOWN ON THIS SHEET WERE PROVIDED BY THE KROGER COMPANY

WEIHE ENGINEERS
Land Surveying | Civil Engineering
Landscape Architecture
10505 N. College Avenue
Indianapolis, Indiana 46280
weihe.net
317 | 846 - 6611
800 | 452 - 6408
317 | 843 - 0546 *fax*
ALLAN H. WEIHE, P.E., L.S. - FOUNDER

BY	DATE	REVISIONS AND ISSUES
BJS	02.12.2015	RESUBMITTED FOR INITIAL REVIEW

PROJECT NO.: W14.0460
DWG NAME: W14046-C201 site det.dwg
DESIGNED BY: RLW/SAM
DRAWN BY: RLW/SAM
CHECKED BY: JKS
DATE: 02.12.2015

JAMES K. SHINNEMAN P.E. 10200392

PREPARED FOR:
KROGER STORE J-979

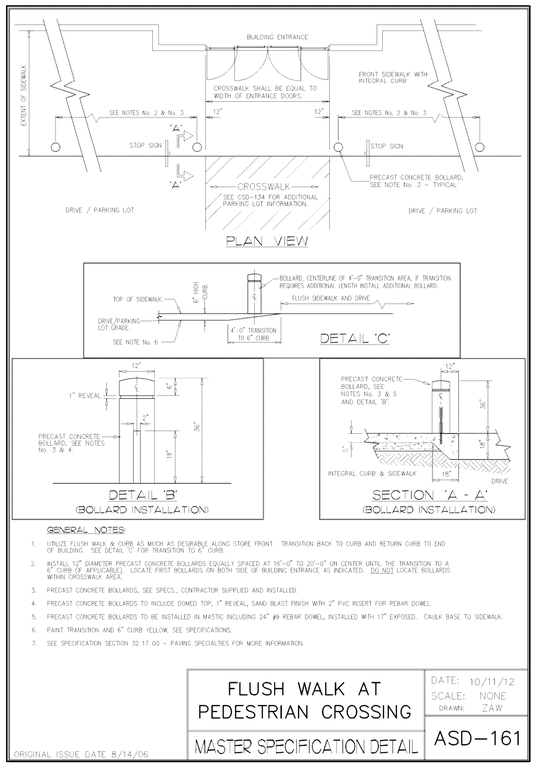
KROGER MARKETPLACE - MALLORY PARKWAY AND U.S. 31

SITE DETAILS
Part of the NE¼ of Section 15, Township 12 North, Range 4 East, Franklin Township, Johnson County, Indiana

SHEET NO.
C2.05

PROJECT NO.
W14.0460

LOCATION: H:\2014\W14.0460\Engineering\design\constr\w140460 -C201 site det.dwg
USER: JFQ
DATE/TIME: February 12, 2015 - 7:29am
PLOTTED BY: schoettlp

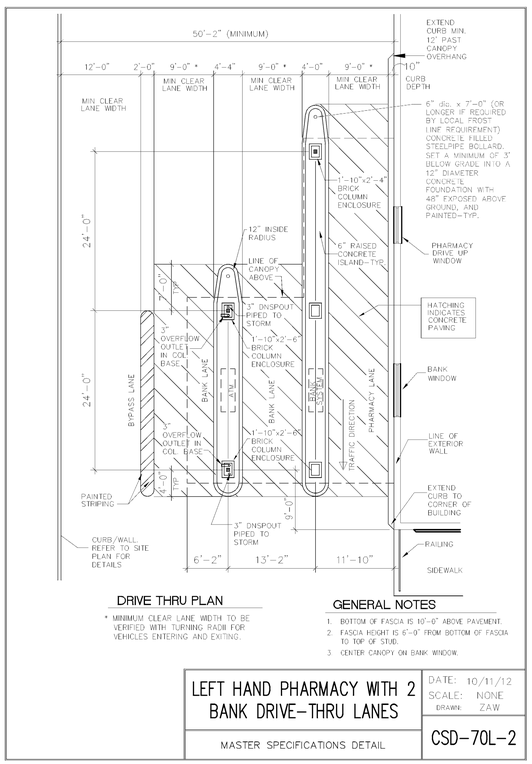


GENERAL NOTES:

1. UTILIZE FLUSH WALK & CURB AS MUCH AS DESIRABLE ALONG STORE FRONT. TRANSITION BACK TO CURB AND RETURN CURB TO END OF BUILDING. SEE DETAIL 'C' FOR TRANSITION TO 6" CURB.
2. INSTALL 12" DIAMETER PRECAST CONCRETE BOLLARDS EQUALLY SPACED AT 16'-0" TO 20'-0" ON CENTER UNTIL THE TRANSITION TO A 6" CURB (IF APPLICABLE). LOCATE FIRST BOLLARDS ON BOTH SIDE OF BUILDING ENTRANCE AS INDICATED. DO NOT LOCATE BOLLARDS WITHIN CROSSWALK AREA.
3. PRECAST CONCRETE BOLLARDS, SEE SPECS., CONTRACTOR SUPPLIED AND INSTALLED.
4. PRECAST CONCRETE BOLLARDS TO INCLUDE DOMED TOP, 1" REVEAL, SAND BLAST FINISH WITH 2" PVC INSERT FOR REBAR DOWEL.
5. PRECAST CONCRETE BOLLARDS TO BE INSTALLED IN MASTIC INCLUDING 24" #9 REBAR DOWELL INSTALLED WITH 12" EXPOSED. CAULK BASE TO SIDEWALK.
6. PAINT TRANSITION AND 6" CURB YELLOW. SEE SPECIFICATIONS.
7. SEE SPECIFICATION SECTION 32 17 00 – PAVING SPECIALTIES FOR MORE INFORMATION.

ORIGINAL ISSUE DATE 8/14/06

FLUSH WALK AT PEDESTRIAN CROSSING	DATE: 10/11/12 SCALE: NONE DRAWN: ZAW
MASTER SPECIFICATION DETAIL	ASD–161



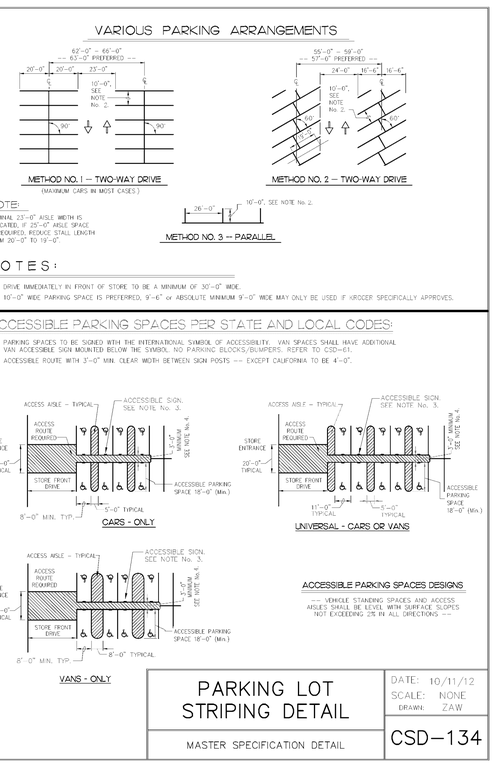
DRIVE THRU PLAN

* MINIMUM CLEAR LANE WIDTH TO BE VERIFIED WITH TURNING RADII FOR VEHICLES ENTERING AND EXITING.

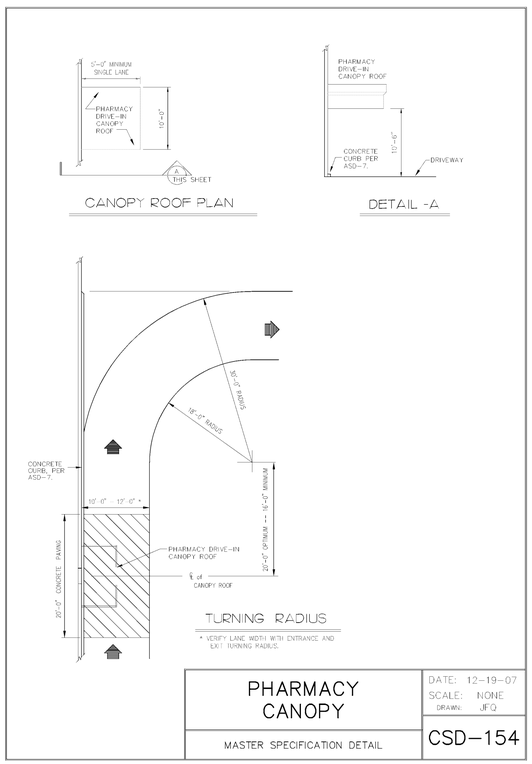
GENERAL NOTES

1. BOTTOM OF FASCIA IS 10'-0" ABOVE PAVEMENT.
2. FASCIA HEIGHT IS 6'-0" FROM BOTTOM OF FASCIA TO TOP OF STUD.
3. CENTER CANOPY ON BANK WINDOW.

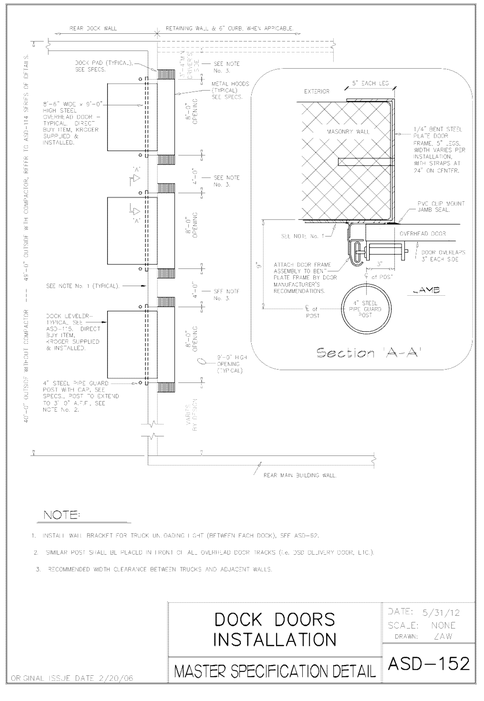
LEFT HAND PHARMACY WITH 2 BANK DRIVE–THRU LANES	DATE: 10/11/12 SCALE: NONE DRAWN: ZAW
MASTER SPECIFICATIONS DETAIL	CSD–70L–2



PARKING LOT STRIPING DETAIL	DATE: 10/11/12 SCALE: NONE DRAWN: ZAW
MASTER SPECIFICATION DETAIL	CSD–134



PHARMACY CANOPY	DATE: 12–19–07 SCALE: NONE DRAWN: JFQ
MASTER SPECIFICATION DETAIL	CSD–154



NOTE:

1. INSTALL WALL BRACKET FOR TRUCK UN–LOADING 1 CAT (BETWEEN EACH DOCK), SEE ASD–67.
2. SIMILAR POST SHALL BE PLACED IN FRONT OF ALL OVERHEAD DOOR TRACKS (i.e. JSD DELIVERY DOOR, ETC.)
3. RECOMMENDED WIDTH CLEARANCE BETWEEN TRUCKS AND ADJACENT WALLS.

ORIGINAL ISSUE DATE 2/20/06

DOCK DOORS INSTALLATION	DATE: 5/31/12 SCALE: NONE DRAWN: ZAW
MASTER SPECIFICATION DETAIL	ASD–152

10505 N. College Avenue
Indianapolis, Indiana 46280
weihe.net
317 846 - 6611
800 452 - 6408
317 843 - 0546 fax
ALLAN H. WEIHE, P.E., L.S. - FOUNDER

WEIHE ENGINEERS
Land Surveying | Civil Engineering
Landscape Architecture

PROJECT NO.	W14.0460
DWG NAME	W14046-C201 site det.dwg
DESIGNED BY:	RLW/SAM
DRAWN BY:	RLW/SAM
CHECKED BY:	JKS
DATE:	02.12.2015

REVISIONS AND ISSUES	DATE	BY
SUBMITTED FOR INITIAL REVIEW	02.12.2015	BJS

JAMES K. SHINNEMAN REGISTERED NO. 10200392 STATE OF INDIANA PROFESSIONAL ENGINEER
A PRINTED COPY OF THIS DOCUMENT IS NOT A VALID ORIGINAL

JAMES K. SHINNEMAN P.E. 10200392

PREPARED FOR:
KROGER STORE J-979

KROGER MARKETPLACE - MALLORY PARKWAY AND U.S. 31

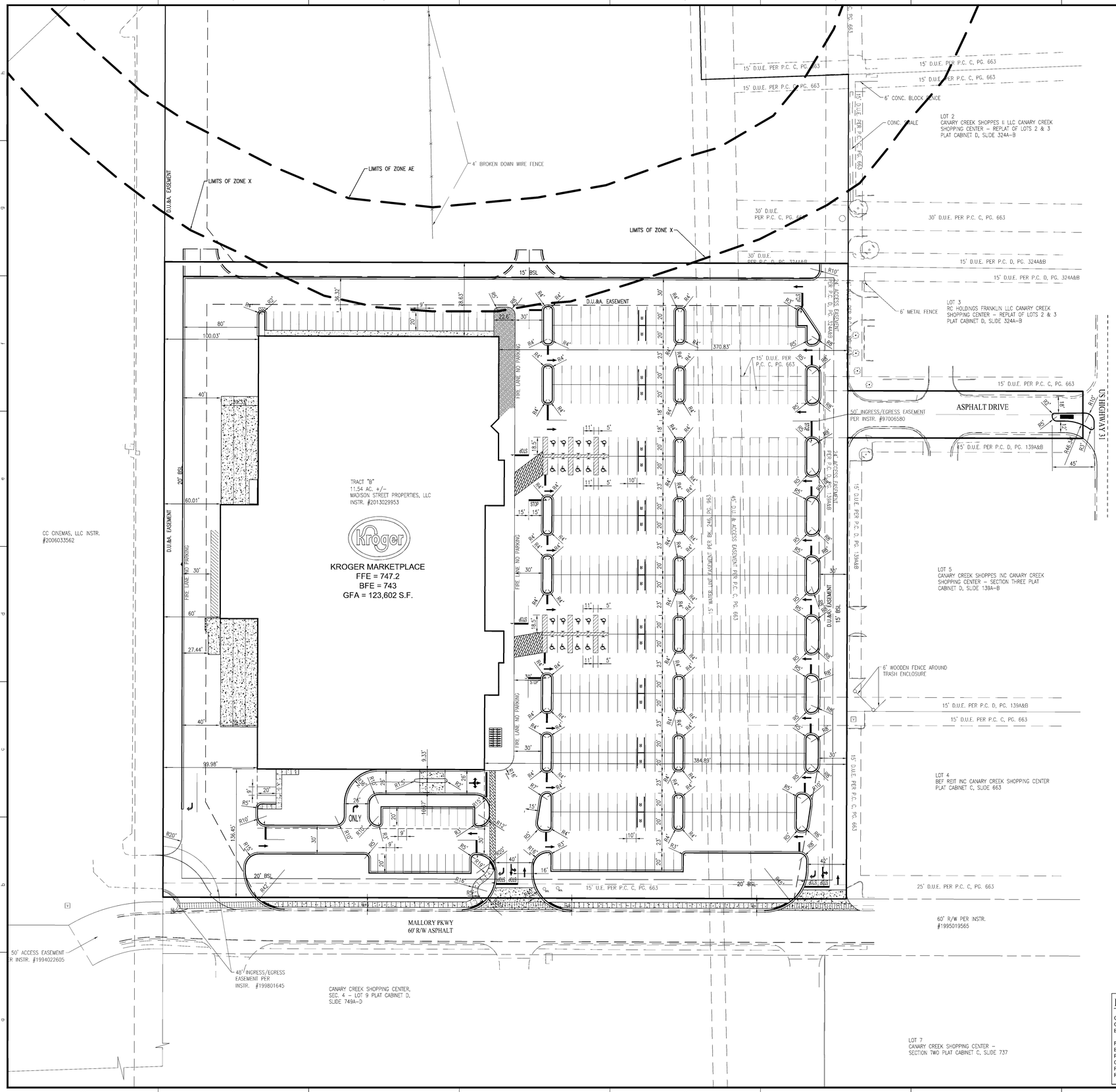
SITE DETAILS

Part of the NE¼ of Section 15, Township 12 North, Range 4 East, Franklin Township, Johnson County, Indiana

SHEET NO.
C2.06

PROJECT NO.
W14.0460

LOCATION: R:\2014\W14046\Engineering\design\Conset\w140460- C201 site det.dwg
LAYOUT: C2.06
DATE/TIME: February 12, 2015 – 7:29am
PLOTTED BY: schoettg



SITE PLAN GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, OR VERIFYING THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY, AND STATE AGENCIES PRIOR TO STARTING CONSTRUCTION.
2. ALL QUANTITIES GIVEN ON THESE PRINTS, VERBALLY OR IN THE SCOPE OF WORK SECTION ARE ESTIMATES AND SHALL BE CONFIRMED BY THE BIDDING CONTRACTORS.
3. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS; FINAL RULE 29 CFR PART 1926, SUBPART "P" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH. IN ADDITION, EXCAVATION EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRE THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER.
4. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER AND CONTRACTOR TO MAINTAIN QUALITY CONTROL THROUGHOUT THIS PROJECT.
5. TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL STANDARDS.
6. BEARINGS, DIMENSIONS, AND EASEMENTS ARE SHOWN FOR REFERENCE ONLY. SEE RECORD SURVEYS AND PLATS FOR EXACT INFORMATION.
7. THE ENGINEER AND/OR OWNER DISCLAIM ANY ROLE IN THE CONSTRUCTION MEANS AND METHODS ASSOCIATED WITH THE PROJECT.
8. ALL DIMENSIONS ARE BASED ON FACE OF CURB OR BACK OF ROLL CURB OR FACE OF BUILDING.
9. SEE ARCHITECTURAL PLANS FOR DETAILS OF BUILDING, BUILDING DIMENSIONS, ATM RELATED DETAILS, AND SIGNAGE SPECIFICATIONS. DO NOT STAKE BUILDING FROM THESE PLANS.
10. COORDINATE CONSTRUCTION ACTIVITIES WITH ADJOINING WORK IF APPLICABLE. VERIFY EXTENT OF ADJOINING WORK AND COORDINATE AS REQUIRED.
11. FIELD VERIFY EXISTING CURBS AND TAPER PROPOSED VERTICAL CURBS TO MATCH WITHIN A MIN. OF THREE (3) FEET.
12. ± DIMENSIONS INDICATE FIELD DIMENSION ADJUSTMENT AREA BASED ON ACTUAL FIELD LAYOUT COORDINATES.
13. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
14. PROVIDE SMOOTH TRANSITION FROM NEWLY PAVED AREAS TO EXISTING AREAS AS NECESSARY. ALL AREAS WHERE PROPOSED PAVEMENT MEETS EXISTING PAVEMENT, THE EXISTING EDGE OF PAVEMENT SHALL BE FREE OF ALL LOOSE DEBRIS. THE EDGE OF EXISTING ASPHALT PAVEMENT SHALL BE PROPERLY SEALED WITH A TACK COAT MATERIAL IN ALL AREAS WHERE NEW ASPHALT PAVEMENT IS INDICATED TO JOIN EXISTING.
15. RESURFACE OR RECONSTRUCT AT LEAST TO ORIGINAL CONDITIONS ALL AREAS WHERE THE EXISTING PAVEMENT OR LAWNS ARE DAMAGED DURING CONSTRUCTION FROM TRAFFIC BY CONTRACTORS, SUBCONTRACTORS, OR SUPPLIERS AFTER CONSTRUCTION WORK IS COMPLETE.
16. THE CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION.
17. REFER TO ARCHITECTURAL PLANS FOR BUILDING ACCESSORY DETAILS.
18. REFER TO SHEET C2.03, C2.04, C2.05 FOR SITE PLAN DETAILS UNLESS OTHERWISE NOTED.

SITE PLAN LEGEND

S	=	EXISTING SIGN
MB	=	MAILBOX
	=	EXISTING LIGHT
BOL	=	EXISTING BOLLARD
GP	=	GATE POST
	=	TRANSFORMER
	=	RIGHT-OF-WAY LINE
R.O.W.	=	RIGHT-OF-WAY
F.F.E.	=	FINISH FLOOR ELEVATION
12	=	PARKING COUNT
	=	ADA PARKING
BSL	=	BUILDING SETBACK LINE
ESMT	=	EASEMENT
D&UE	=	DRAINAGE AND UTILITY EASEMENT
• PKF	=	EXISTING IRON PIN & OR PK (SET/FOUND)
	=	EXISTING TREE LINE
	=	PROPOSED DIRECTIONAL SIGN

PLAN CERTIFICATE NOTE:

ORIGINAL ALTA, TOPOGRAPHY, UTILITIES, STORM SEWERS, AND ALL OTHER EXISTING CONDITIONS ITEMS WERE PREPARED BY BANNING ENGINEERING.

FINAL DRAWINGS FOR THE KROGER SITE WERE PREPARED BY WEIHE ENGINEERS, INC. AND JAMES K. SHINNEMAN. FINAL CONSTRUCTION PLANS ARE THOSE PLANS CONTAINING A FINAL REVISION DATE AFTER 02/12/2015. WEIHE ENGINEERS, INC. AND JAMES K. SHINNEMAN ACCEPT RESPONSIBILITY ONLY FOR THE KROGER SITE IMPROVEMENTS RELATED TO THE ENGINEERING WORK SHOWN ON THESE PLANS.

SCALE: 1" = 50

0 25 50 100

Know what's below. Call before you dig.
Within Indiana Call 811 or 800-382-5544
24 Hours a Day, 7 Days a Week.
PER INDIANA STATE LAW IC 8-1-26, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

10505 N. College Avenue
Indianapolis, Indiana 46280
weihe.net
317 | 846 - 6611
800 | 452 - 6408
317 | 843 - 0546 fax
ALLAN H. WEIHE, P.E., L.S. - FOUNDER

WEIHE ENGINEERS
Land Surveying | Civil Engineering
Landscape Architecture

REVISIONS AND ISSUES	DATE	BY
SUBMITTED FOR INITIAL REVIEW	02.12.2015	BJS

PROJECT NO.: W14.0460
DWG. NAME: w14046 C210 DIM.dwg
DESIGNED BY: RLW/PAM
DRAWN BY: RLW/PAM
CHECKED BY: JKS
DATE: 02.12.2015

JAMES K. SHINNEMAN
REGISTERED
NO. 10200392
STATE OF INDIANA
PROFESSIONAL ENGINEER
A PROFESSIONAL NOTARIZATION

JAMES K. SHINNEMAN P.E. 10200392

PREPARED FOR:
KROGER STORE J-979

KROGER MARKETPLACE - MALLORY PARKWAY AND U.S. 31

DIMENSION PLAN

Part of the NE¼ of Section 15, Township 12 North, Range 4 East, Franklin Township, Johnson County, Indiana

SHEET NO.
C2.07

PROJECT NO.
W14.0460

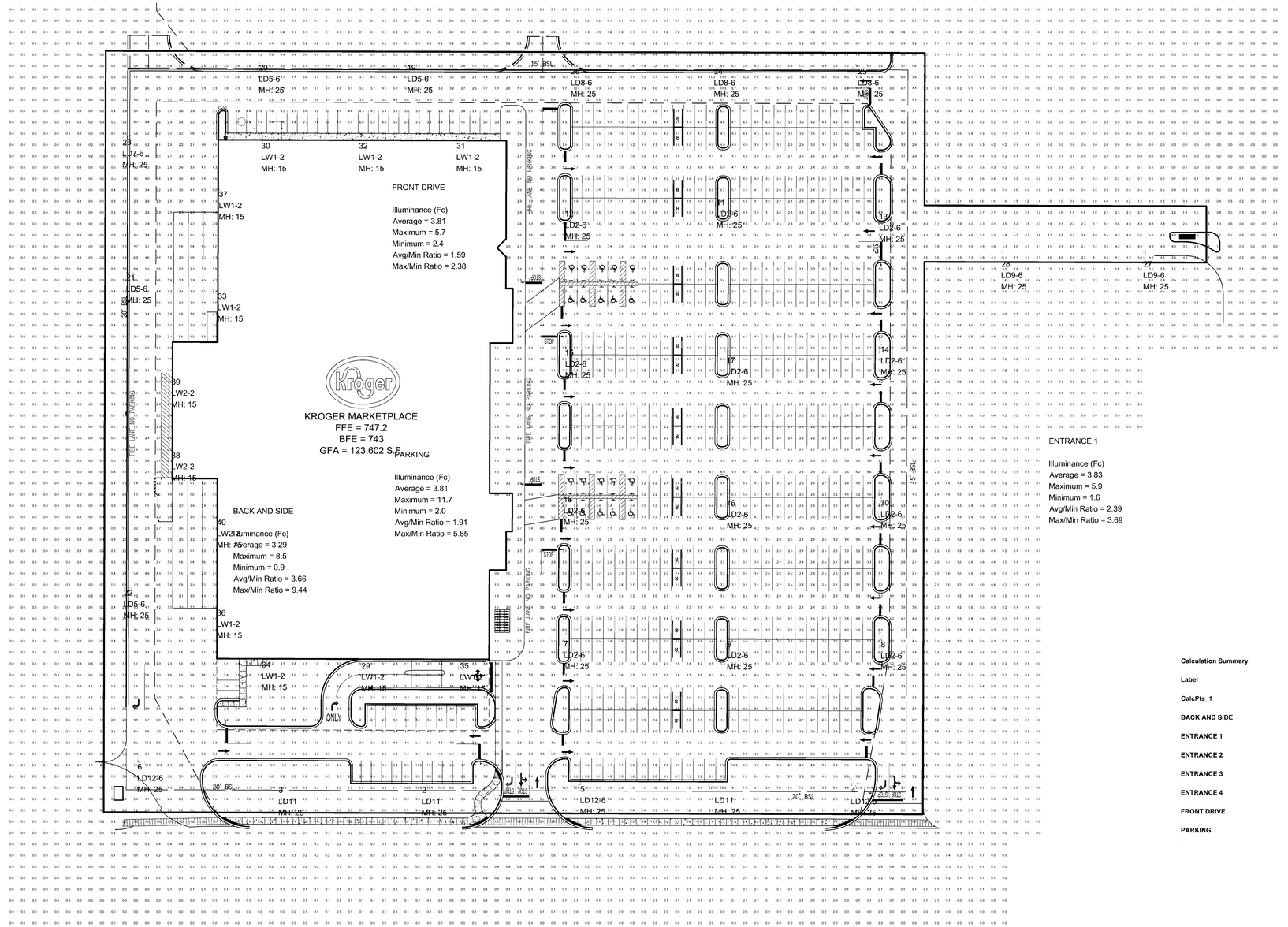
LOCATION: H:\2014\W14046\0\Engineering\Design\Conset\w140460-C210 DIM.dwg
LAYOUT: C2.07
DATE/TIME: February 12, 2015 – 7:29am
PLOTTED BY: schaffb

Luminaire Schedule

Symbol	Qty	Label	Arrangement	Lum. Watts	Total Watts	Lum. Lumens	LLF	Description
	12	LD2-6	BACK-BACK	315	7560	32327	0.912	GLEON-AE-06-LED-E1-5WQ 2@180
	4	LD5-6	SINGLE	315	1260	30693	0.912	GLEON-AE-06-LED-E1-SL3
	1	LD7-6	SINGLE	315	315	29163	0.912	GLEON-AE-06-LED-E1-SL4
	3	LD8-6	ROTATED OPTICS	315	1890	29163	0.912	GLEON-AE-06-LED-E1-SL4-L90 & GLEON-AE-06-LED-E1-SL4-R90
	2	LD9-6	SINGLE	315	630	30697	0.912	GLEON-AE-06-LED-E1-T3
	3	LD11	ROTATED OPTICS	315	1890	30875	0.912	GLEON-AE-06-LED-E1-T4FT-L90 & GLEON-AE-06-LED-E1-T4FT-R90
	3	LD12-6	2 @ 90 DEGREES	315	1890	30875	0.912	GLEON-AE-06-LED-E1-T4FT 2@90
	9	LW1-2	SINGLE	107	963	10501	0.912	GLEON-AE-02-LED-E1-T3
	3	LW2-2	SINGLE	107	321	10562	0.912	GLEON-AE-02-LED-E1-T4FT

Luminaire Location Summary

LumNo	Label	X	Y	Z	Orient	Tilt
1	LD11	215388.7	1544374.	25	90	0
2	LD11	215128.9	1544373.	25	90	0
3	LD11	215002.0	1544373.	25	90	0
4	LD12-6	215509.4	1544373.	25	45	0
5	LD12-6	215269.3	1544374.	25	135	0
6	LD12-6	214877	1544394	25	45	0
7	LD2-6	215254.8	1544503.	25	90	0
8	LD2-6	215535.9	1544502.	25	90	0
9	LD2-6	215399.5	1544502.	25	90	0
10	LD2-6	215535.9	1544628.	25	90	0
11	LD2-6	215390.4	1544894.	25	90	0
12	LD2-6	215256.1	1544884.	25	90	0
13	LD2-6	215534.6	1544881.	25	90	0
14	LD2-6	215535.9	1544764.	25	90	0
15	LD2-6	215256.2	1544761.	25	90	0
16	LD2-6	215399.5	1544627.	25	90	0
17	LD2-6	215399.4	1544754.	25	90	0
18	LD2-6	215254.8	1544631.	25	90	0
19	LD5-6	215116.3	1545013.	25	270	0
20	LD5-6	214984.5	1545013.	25	270	0
21	LD5-6	214866.9	1544827.	25	0	0
22	LD5-6	214864.8	1544548.	25	0	0
23	LD7-6	214863.7	1544947.	25	0	0
24	LD8-6	215388.0	1545010.	25	270	0
25	LD8-6	215515.4	1545010.	25	270	0
26	LD8-6	215261.1	1545010.	25	270	0
27	LD9-6	215768.6	1544839.	25	90	0
28	LD9-6	215642.7	1544839.	25	90	0
29	LW1-2	215075.4	1544483.	15	270	0
30	LW1-2	214986.6	1544944.	15	90	0
31	LW1-2	215159.7	1544944.	15	90	0
32	LW1-2	215073.2	1544944.	15	90	0
33	LW1-2	214948.1	1544811.	15	180	0
34	LW1-2	214987.2	1544484.	15	270	0
35	LW1-2	215162.8	1544483.	15	270	0
36	LW1-2	214947.3	1544530.	15	180	0
37	LW1-2	214949.2	1544901.	15	180	0
38	LW2-2	214906.9	1544670.	15	180	0
39	LW2-2	214907.0	1544735.	15	180	0
40	LW2-2	214947.3	1544610.	15	180	0



Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
CalcPts_1	Illuminance	Fc	2.08	13.5	0.0	N.A.	N.A.
BACK AND SIDE	Illuminance	Fc	3.29	8.5	0.9	3.66	9.44
ENTRANCE 1	Illuminance	Fc	3.83	5.9	1.6	2.39	3.69
ENTRANCE 2	Illuminance	Fc	4.17	9.2	1.6	2.61	5.75
ENTRANCE 3	Illuminance	Fc	3.13	6.4	1.5	2.09	4.27
ENTRANCE 4	Illuminance	Fc	4.63	10.2	1.5	3.09	6.80
FRONT DRIVE	Illuminance	Fc	3.81	5.7	2.4	1.59	2.38
PARKING	Illuminance	Fc	3.81	11.7	2.0	1.91	5.85

* SITE LIGHTING AND PHOTOMETRICS FOR KROGER ARE PRPOVIDED BY:

Cooper Lighting by EATON

We make no representation as to its completeness, currency or accuracy because of reasons inherent in CAD and the additional digital data used to produce a lighting application. All digital data is the property of Eaton's Lighting business and is protected by copyright and other intellectual property laws. Eaton's Lighting business owns the copyright in any digital data supplied by Eaton. Any use of this data beyond its intended purpose requires the express, advance written permission of Eaton's Lighting business, and includes any reuse, modification, enhancement or merging with other hardware or software in any manner. Eaton's Lighting business disclaims any liability arising from any reuse of the data that is not authorized by Eaton's Lighting business in writing, or any modification of the data by any third party, including any reliance thereon. Eaton's Lighting business does not control the use of its products in combination with other products, or in the operation of any system, nor the expertise applied by any user with respect to the application or use of the products. Particular applications and uses may require further review. Eaton's Lighting business assumes no responsibility for the use of this information, and all such responsibility is expressly disclaimed. Actual performance of any Eaton's Lighting business product may differ as a result of end-user site conditions. Eaton's Lighting business makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose or that any lighting design will result in a successful installation. It is the end-user's responsibility to determine the suitability of Eaton's Lighting business products for any application. Eaton's Lighting business specifically disclaims any warranty or guarantee that any lighting design will result in a successful installation. Eaton's Lighting business makes no warranty, representation or guarantee that the use of its products will ensure a safe workplace or that the use of its products will protect against all hazards in the workplace. It is the end-user's responsibility to determine what procedures are adequate to ensure a safe workplace. Eaton's Lighting business specifically disclaims any warranty or guarantee that the use of its products will ensure a safe workplace. Eaton's Lighting business makes no warranty, representation or guarantee that the use of its products will ensure compliance with any law, code, ordinance or regulation. It is the end-user's responsibility to determine what laws, codes, ordinances or regulations are applicable and how to comply with them. Eaton's Lighting business specifically disclaims any warranty or guarantee that the use of its products will ensure compliance with any law, code, ordinance or regulation. Lighting application drawings are being provided for the purpose of the disclaimer.

Cooper Lighting
by EATON
Applications Engineering
1121 Highway 74 South
Peachtree City, GA 30269
tel no: 770-486-4579
fax no: 770-486-4199
e-mail:
cbb-lightingapplications@Eaton.com

SCALE: 1" = 50
0 25 50 100

Know what's below. Call before you dig.
Within Indiana Call 811 or 800-382-5544
24 Hours a Day, 7 Days a Week.
PER INDIANA STATE LAW IC 8-1-26, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

WEIHE ENGINEERS
Land Surveying | Civil Engineering
Landscape Architecture
10505 N. College Avenue
Indianapolis, Indiana 46280
weihe.net
317 | 846 - 6611
800 | 452 - 6408
317 | 843 - 0546 fax
ALLAN H. WEIHE, P.E., L.S. - FOUNDER

REVISIONS AND ISSUES	BY	DATE
SUBMITTED FOR INITIAL REVIEW	BJS	02.12.2015

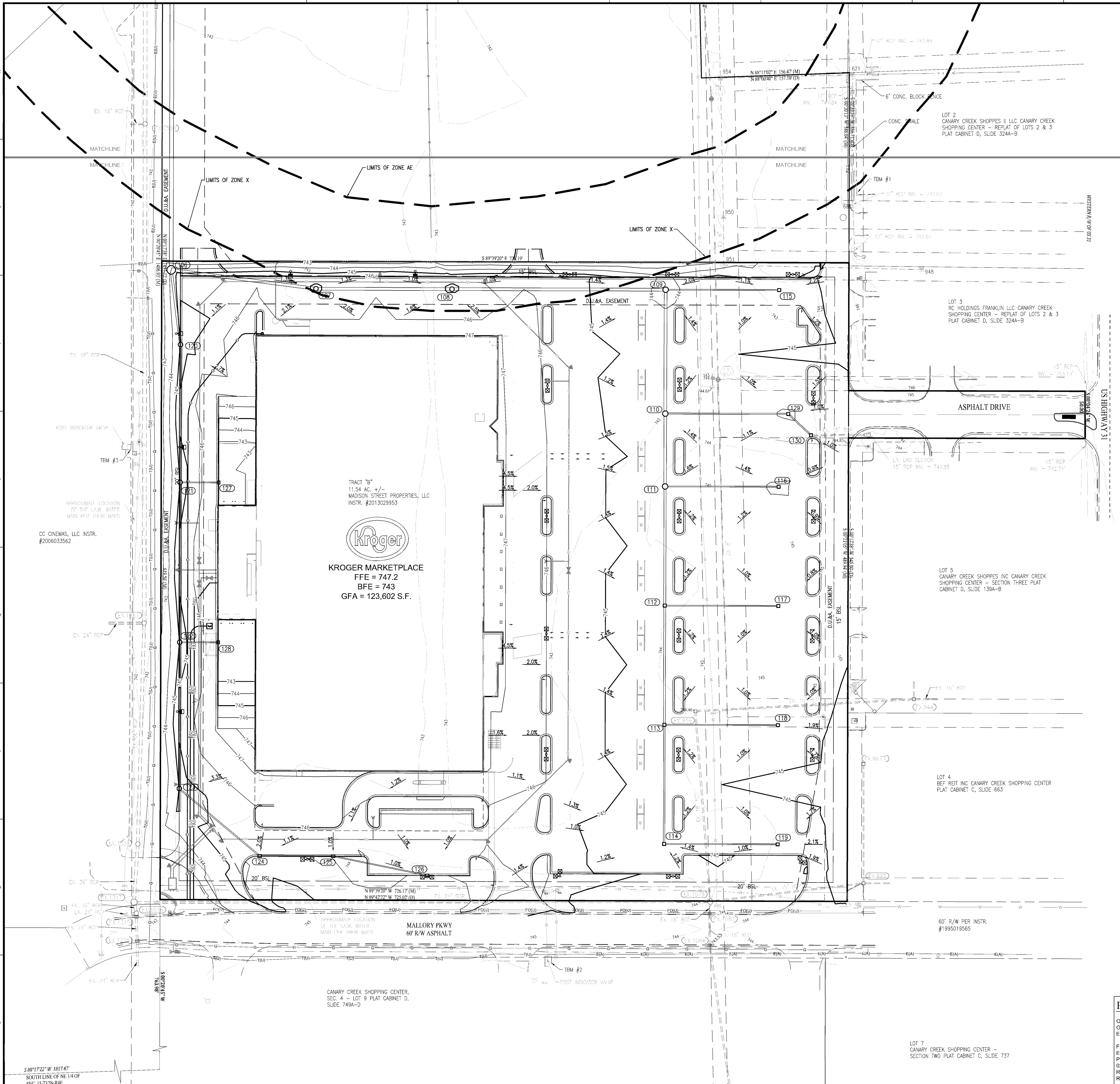
PROJECT NO.: W14.0460
DWG NAME: w140460 C220 light.dwg
DESIGNED BY: RJW/SAM
DRAWN BY: RJW/SAM
CHECKED BY: JKS
DATE: 02.12.2015

APPROVAL PENDING
NOT FOR CONSTRUCTION

PREPARED FOR:
KROGER STORE J-979
KROGER MARKETPLACE - MALLORY PARKWAY AND U.S. 31
LIGHTING PLAN
Part of the NE¼ of Section 15, Township 12 North, Range 4 East, Franklin Township, Johnson County, Indiana

SHEET NO.
C2.08
PROJECT NO.
W14.0460

LOCATION: J:\2014\W14\460\Engineering\Design\Lighting\Kroger J-979 - Mallory Parkway\w140460 C220 light.dwg
USER: Rob Wilson
DATE/TIME: February 12, 2015 - 7:30am
PLOTTED BY: rwilson



GENERAL GRADING NOTES

1. REFER TO THE INDIANA DEPARTMENT OF TRANSPORTATION (INDOT) STANDARD SPECIFICATIONS, LATEST EDITION, FOR BASIC MATERIALS AND CONSTRUCTION METHODS. THE SECTIONS BELOW FOR VARIOUS ITEMS ARE TO CLARIFY THE INTENT OF THE REQUIREMENTS FOR THIS PROJECT. PLEASE NOTE THAT OTHER SECTIONS OF THE INDOT STANDARD SPECIFICATIONS MAY ALSO BE APPLICABLE.
2. FILL MATERIAL SHALL CONSIST OF EARTH OBTAINED FROM CUT AREAS, BORROW PITS OR OTHER APPROVED SOURCES. EARTH SHALL BE FREE FROM ORGANIC MATTER AND OTHER DELETERIOUS SUBSTANCES AND LARGE ROCKS. THE FILL MATERIAL SHALL BE PLACED IN LAYERS NOT TO EXCEED SIX INCHES FOLLOWING COMPACTION, PROPER MOISTURE CONTENT OF FILL MATERIAL WILL BE SUCH TO ACHIEVE SPECIFIED COMPACTION DENSITY. ALL FILL BENEATH PAVED AREAS, FLOOR SLABS AND FUTURE BUILDINGS SHALL BE COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY PER ASTM D-1557. FIELD COMPACTING TEST SHALL BE RUN ON EACH LIFT, IN FILL SECTIONS, AND THE REQUIRED COMPACTION ON EACH LIFT SHALL BE IN ACCORDANCE WITH INDOT SECTION 211.
3. MAXIMUM LAWN SLOPE IS 3:1.
4. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES TO LOCATE MAINS, CONDUITS, SERVICE LINES, ETC. IN THE AFFECTED CONSTRUCTION AREA. EXISTING UTILITY STRUCTURES ARE SHOWN HERE IN ACCORDANCE WITH AVAILABLE INFORMATION. THE LOCATION AND PROTECTION OF UTILITY STRUCTURES, THEIR SUPPORT AND MAINTENANCE DURING CONSTRUCTION (IN COOPERATION WITH APPLICABLE UTILITY COMPANY) IS THE EXPRESSED RESPONSIBILITY OF THE CONTRACTOR.
5. ALL SPOT ELEVATIONS ARE TO FINISHED GRADE.
6. COMPACTED "B" BORROW BACK FILL REQ'D. OVER ALL UTILITIES IN PAVED AREAS.
7. ALL GRADES AT BOUNDARY SHALL MEET EXISTING.
8. ANY PART OF SANITARY OR STORM SEWER TRENCHES RUNNING UNDER OR WITHIN 5' OF PAVEMENT TO BE BACKFILLED WITH GRANULAR MATERIAL.
9. ALL CONSTRUCTION ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH O.S.H.A. STANDARDS FOR WORKER SAFETY.
10. THE CONTRACTOR SHALL CONFIRM ALL EARTHWORK QUANTITIES PRIOR TO THE START OF CONSTRUCTION. IF AN EXCESS OR SHORTAGE OF EARTH IS ENCOUNTERED, THE CONTRACTOR SHALL CONFIRM WITH THE OWNER AND ENGINEER THE REQUIREMENTS FOR STOCKPILING, REMOVAL OR IMPORTING OF EARTH.
11. PROVIDE POSITIVE DRAINAGE WITHOUT PONDING IN ALL AREAS AFTER INSTALLATION. CONTRACTOR TO TEST FOR AND CORRECT ANY PONDING CONDITIONS. ANY AREAS THAT HOLD WATER MORE THAN 1/8" DEEP SHALL BE CUT OUT AND CORRECTED TO POSITIVE DRAINAGE AT NO COST TO THE OWNER/ DEVELOPER/ OR ENGINEER.
12. VERTICAL CURVES, WITH A MINIMUM LENGTH OF 50', SHALL BE USED WHERE POSSIBLE BETWEEN VERTICAL CHANGES IN DIRECTION (SLOPE) TO ALLOW FOR POSITIVE DRAINAGE AND SMOOTH TRANSITIONS.
13. CONTRACTOR TO INSTALL CONCRETE CRADLES WHEN THE VERTICAL SEPARATION (AS MEASURED FROM THE EXTERIOR OF THE PIPES) BETWEEN SANITARY SEWER FACILITIES, WATER MAIN, AND STORM SEWERS IS 18" OR LESS.
14. ALL HDPE PIPE SHALL BE DUAL WALLED, HANCOR HQ, ADS N-12 PIPE OR APPROVED EQUAL
15. ALL FITTINGS AND ACCESSORIES INCLUDING BUT NOT LIMITED TO END CAPS, CLEANOUTS, REDUCERS, ETC., SHALL BE OF HDPE MATERIAL COMPARABLE WITH STORAGE PIPES
16. PROVIDE BACKFILL WITH A MINIMUM OF 4" BEDDING MATERIAL OF #8 AGGREGATE COMPACTED IN 8" LIFTS TO 95% MAXIMUM DRY DENSITY
17. VERIFY EXISTING STORM INVERT ELEVATIONS PRIOR TO STARTING NEW STORM SEWER CONNECTION
18. THE SITE DOES NOT LIE IN A SPECIAL FLOOD HAZARD AREA AS ESTABLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY - NATIONAL FLOOD INSURANCE PROGRAM, WHEN PLOTTED BY SCALE ON FLOOD INSURANCE RATE MAP #180081C0227 D, DATED AUGUST 2, 2007.

LEGEND

Symbol		Description
FH	=	EXIST. FIRE HYDRANT
WM	=	EXIST. WATER METER/VALVE
	=	EXIST. SIGN
	=	EXIST. MONITOR WELL
PKF	=	EXIST. IRON PIN & OR PK (SET/FOUND)
GM	=	EXIST. GAS METER
	=	EXIST. GAS VALVE
	=	EXIST. STORM INLET
MH	=	EXIST. STORM/SAN./TELE. MANHOLE
EM	=	EXIST. ELECTRIC METER
	=	EXIST. POWER POLE/POWER POLE w/ LIGHT
GA	=	EXIST. GUY ANCHOR
T.Ped.	=	EXIST. TELEPHONE PEDESTAL
AC	=	HVAC UNIT
CO	=	CLEANOUT
MB	=	MAILBOX
	=	LIGHT POLE
BOL	=	EXIST. BOLLARD
	=	EXIST. SANITARY SEWER LINE
	=	EXIST. STORM SEWER LINE
892	=	EXIST. CONTOURS
	=	CONCRETE END SECTION (C.E.S.)
GP	=	GATE POST
	=	TRANSFORMER
	=	RIGHT-OF-WAY LINE
	=	PROPOSED SANITARY SEWER LINE
	=	PROPOSED STORM SEWER LINE
STM	=	PROPOSED HDPE ROOF DRAIN
	=	PROPOSED PIPE BOLLARD
	=	PROPOSED MANHOLE (MH)
892	=	PROPOSED CONTOURS
894.50	=	PROPOSED ELEVATION
	=	DRAINAGE FLOW ARROW
	=	EXISTING TREE LINE
	=	PROPOSED DIRECTIONAL SIGN
F.F.E.	=	FINISH FLOOR ELEVATION
TC	=	TOP OF (MANHOLE / INLET) CASTING
INV	=	INVERT ELEVATION
RCP	=	REINFORCED CONCRETE PIPE
CMP	=	CORRUGATED METAL PIPE
PVC	=	POLYVINYL CHLORIDE PIPE
HDPE	=	HIGH DENSITY POLYETHYLENE
···	=	FLOW LINE
STR.	=	STRUCTURE
M.E.G. OR M.E.	=	MATCH EXISTING GRADE
TOW OR TW	=	TOP OF WALL
SSD	=	SUB-SURFACE DRAINAGE
TOC	=	TOP OF CURB
GUT	=	GUTTER
W	=	WATER LINE
G	=	GAS LINE
OHU	=	OVERHEAD UTILITY LINE
T	=	TELEPHONE LINE
E	=	ELECTRIC LINE
TBM	=	TEMPORARY BENCHMARK
XX	=	PARKING COUNT
	=	EMERGENCY FLOOD ROUTE

EARTHWORK NOTES

- IMPORTING FILL MATERIAL FROM AN OFFSITE LOCATION WITHOUT WRITTEN APPROVAL FROM THE KROGER PROJECT MANAGER IS STRICTLY PROHIBITED. IDENTIFICATION OF OFFSITE BORROW LOCATIONS AND MATERIAL MUST BE COORDINATED AND DOCUMENTED WITH THE STORM WATER POLLUTION PREVENTION PLAN. A KROGER APPROVED TESTING FIRM MUST VERIFY THE SUITABILITY OF ALL OFFSITE MATERIAL. THIS INCLUDES ANALYSIS TO INSURE THAT NO ENVIRONMENTAL CONTAMINATION IS PRESENT. IF ANY MATERIAL IS BROUGHT ONSITE WITHOUT PRIOR WRITTEN APPROVAL OF THE KROGER PROJECT MANAGER, THE CONTRACTOR WILL BEAR ALL COSTS ASSOCIATED WITH REMOVING THE MATERIAL , TESTING FOR CONTAMINATION, MONITORING THE CLEANUP OPERATION, DISPOSAL IN AN APPROVED LANDFILL, AND CERTIFYING THAT THE KROGER SITE IS ENVIRONMENTALLY CLEAN.
- IF REQUESTED, THE KROGER PROJECT MANAGER, OR KROGER'S CONSULTANTS MUST BE GRANTED UNFETTERED ACCESS TO ANY AND ALL BORROW SITES.

BUILDING PAD NOTES

- THE KROGER APPROVED TESTING AGENCY AND PROJECT SURVEYOR MUST CERTIFY THE BUILDING PAD USING THE, "PAD CERTIFICATION FORM," INCLUDED IN THE PROJECT SPECIFICATIONS, PRIOR TO THE COMMENCEMENT OF THE BUILDING FOUNDATIONS.
- COMPACTED BUILDING PAD(S) MUST EXTEND A MINIMUM OF TEN (10) FEET BEYOND THE BUILDING FOOTPRINT, INCLUDING CANOPIES OR OTHER STRUCTURAL APPENDAGES, UNTIL THE PERIMETER FOUNDATIONS AND WALLS ARE CONSTRUCTED AND BACKFILLED. THE EXTENDED PORTION OF THE BUILDING PAD SUBGRADE MUST BE REMOVED/REGRADED TO MEET THE FINAL GRADE AND MATERIAL REQUIREMENTS AROUND THE BUILDINGS' PERIMETER.

EXISTING AREAS

PERVIOUS	=	14.25	AC.
IMPERVIOUS	=	0.75	AC.

PROPOSED AREAS

PERVIOUS	=	4.85	AC.
IMPERVIOUS	=	10.15	AC.

BENCHMARK INFORMATION

BENCHMARK INFORMATION
DNR TBM CD 1, 1988 IN JOHNSON COUNTY, FRANKLIN QUADRANGLE, IN THE NE ¼ OF SECTION 10, TOWNSHIP 12 NORTH, RANGE 4 EAST, 2ND P.M.; AT FRANKLIN; AT THE U.S. 31 BRIDGE OVER CANARY DITCH; SET IN THE TOP OF THE SOUTHEAST CONCRETE WINGWALL OF THE BRIDGE, 25.8 FEET EAST OF THE CENTERLINE OF THE BRIDGE, 0.6 FOOT NORTH OF THE SOUTH END OF THE WINGWALL 1.0 FOOT BELOW THE LEVEL OF THE ROAD; A "PK" NAIL SET IN A DRILL HOLE, INSIDE A CUT CIRCLE.
2ND ORDER ELEVATION
REVISED ELEVATION 229.240 METERS N.G.V.D. 1929
752.099 FEET N.G.V.D. 1929 (751.693 FEET N.A.V.D.1988)

TBM #1 ELEV: 745.81 CUT SQUARE ON TOP ON A CONCRETE LIGHT BASE ON THE WEST EDGE OF CONCRETE, DUE WEST OF THE SOUTHWEST CORNER OF THE SHERWIN WILLIAMS BUILDING SQUARE IS APPROXIMATELY 15 FEET NORTHEAST OF A DRIVE STUB BEHIND THE BUILDING.

TBM #2 ELEV: 747.77 CUT SQUARE IN THE NORTHWEST CORNER OF A CONCRETE WATER VAULT ON THE EAST SIDE OF THE MIDDLE KOHL'S ENTRANCE LOCATED ON THE SOUTH SIDE OF MALLORY PARKWAY.

TBM #3 ELEV: 742.94 CUT SQUARE IN THE SOUTHEAST CORNER OF A CONCRETE WATER VAULT DUE EAST OF THE SOUTHEAST CORNER OF CANARY CREEK CINEMA BUILDING.

POND

N.P.	= 735.50
2 YR.	= 738.78
10 YR.	= 739.79
100 YR.	= 740.87
SPILLWAY	= 742.00
BOTTOM	= 725.00
BFE	= 743.00

PLAN CERTIFICATE NOTE:

ORIGINAL ALTA, TOPOGRAPHY, UTILITIES, STORM SEWERS, AND ALL OTHER EXISTING CONDITIONS ITEMS WERE PREPARED BY BANNING ENGINEERING.

FINAL DRAWINGS FOR THE KROGER SITE WERE PREPARED BY WEIHE ENGINEERS, INC. AND JAMES K. SHINNEMAN. FINAL CONSTRUCTION PLANS ARE THOSE PLANS CONTAINING A FINAL REVISION DATE AFTER 02/12/2015. WEIHE ENGINEERS, INC. AND JAMES K. SHINNEMAN ACCEPT RESPONSIBILITY ONLY FOR THE KROGER SITE IMPROVEMENTS RELATED TO THE ENGINEERING WORK SHOWN ON THESE PLANS.

SCALE: 1" = 50
0 25 50 100

Know what's **below.** **Call** before you dig.
Within Indiana Call
811 or 800-382-5544
24 Hours a Day, 7 Days a Week.
PER INDIANA STATE LAW IC 8-1-26. IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

10505 N. College Avenue
Indianapolis, Indiana 46280
weihe.net
317 | 846 - 6611
800 | 452 - 6408
317 | 843 - 0546 *fax*
ALLAN H. WEIHE, P.E., L.S. - FOUNDER
WEIHE ENGINEERS
Land Surveying | Civil Engineering
Landscape Architecture

PROJECT NO.:	DWG NAME:	DESIGNED BY:	DRAWN BY:	CHECKED BY:	DATE:
W14.0460	w140460-C300 grad.dwg	RLW/RAM	RLW/RAM	JKS	02.12.2015

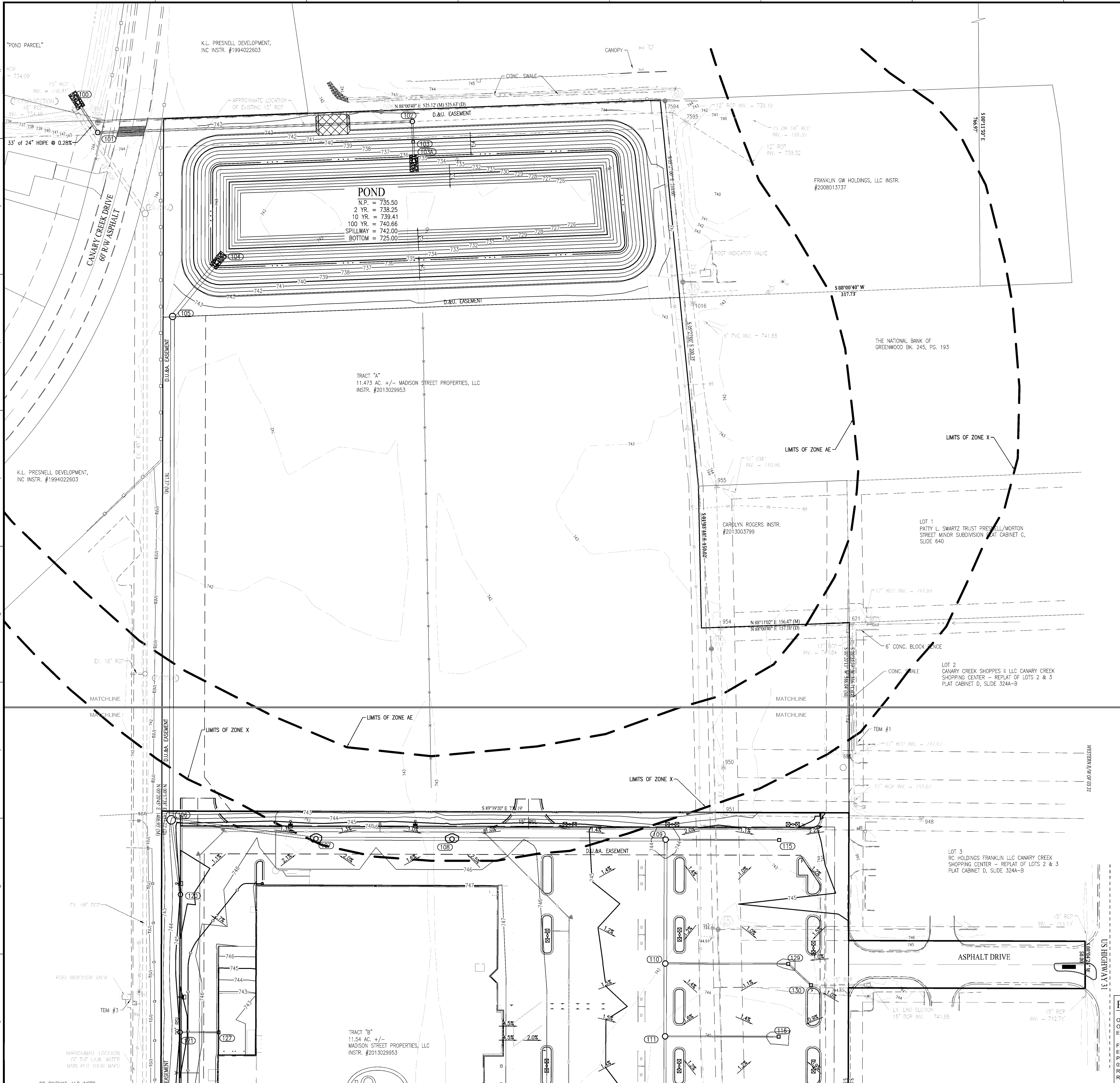
DATE	BY	REVISIONS AND ISSUES
02.12.2015	BJS	SUBMITTED FOR INITIAL REVIEW

JAMES K. SHINNEMAN REGISTERED No. 10200392 STATE OF INDIANA PROFESSIONAL ENGINEER
APPROVAL PENDING NOT FOR CONSTRUCTION
JAMES K. SHINNEMAN P.E. 10200392

PREPARED FOR:
KROGER STORE J-979
KROGER MARKETPLACE - MALLORY PARKWAY AND U.S. 31
GRADING PLAN
Part of the NE/4 of Section 15, Township 12 North, Range 4 East, Franklin Township, Johnson County, Indiana

SHEET NO.
C3.01
PROJECT NO.
W14.0460

LOCATION: H:\2014\W140460\Engineering\design\conset\w140460-C300 grad.dwg
LAYOUT: C3.01
DATE/TIME: February 12, 2015 - 7:30am
PLOTTED BY: schoeffb



GENERAL GRADING NOTES

1. REFER TO THE INDIANA DEPARTMENT OF TRANSPORTATION (INDOT) STANDARD SPECIFICATIONS, LATEST EDITION, FOR BASIC MATERIALS AND CONSTRUCTION METHODS. THE SECTIONS BELOW FOR VARIOUS ITEMS ARE TO CLARIFY THE INTENT OF THE REQUIREMENTS FOR THIS PROJECT. PLEASE NOTE THAT OTHER SECTIONS OF THE INDOT STANDARD SPECIFICATIONS MAY ALSO BE APPLICABLE.
2. FILL MATERIAL SHALL CONSIST OF EARTH OBTAINED FROM CUT AREAS, BORROW PITS OR OTHER APPROVED SOURCES. EARTH SHALL BE FREE FROM ORGANIC MATTER AND OTHER DELETERIOUS SUBSTANCES AND LARGE ROCKS. THE FILL MATERIAL SHALL BE PLACED IN LAYERS NOT TO EXCEED SIX INCHES FOLLOWING COMPACTION, PROPER MOISTURE CONTENT OF FILL MATERIAL WILL BE SUCH TO ACHIEVE SPECIFIED COMPACTION DENSITY. ALL FILL BENEATH PAVED AREAS, FLOOR SLABS AND FUTURE BUILDINGS SHALL BE COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY PER ASTM D-1557. FIELD COMPACTING TEST SHALL BE RUN ON EACH LIFT, IN FILL SECTIONS, AND THE REQUIRED COMPACTION ON EACH LIFT SHALL BE IN ACCORDANCE WITH INDOT SECTION 211.
3. MAXIMUM LAWN SLOPE IS 3:1.
4. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES TO LOCATE MAINS, CONDUITS, SERVICE LINES, ETC. IN THE AFFECTED CONSTRUCTION AREA. EXISTING UTILITY STRUCTURES ARE SHOWN HERE IN ACCORDANCE WITH AVAILABLE INFORMATION. THE LOCATION AND PROTECTION OF UTILITY STRUCTURES, THEIR SUPPORT AND MAINTENANCE DURING CONSTRUCTION (IN COOPERATION WITH APPLICABLE UTILITY COMPANY) IS THE EXPRESSED RESPONSIBILITY OF THE CONTRACTOR.
5. ALL SPOT ELEVATIONS ARE TO FINISHED GRADE.
6. COMPACTED "B" BORROW BACK FILL REQ'D. OVER ALL UTILITIES IN PAVED AREAS.
7. ALL GRADES AT BOUNDARY SHALL MEET EXISTING.
8. ANY PART OF SANITARY OR STORM SEWER TRENCHES RUNNING UNDER OR WITHIN 5' OF PAVEMENT TO BE BACKFILLED WITH GRANULAR MATERIAL.
9. ALL CONSTRUCTION ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH O.S.H.A. STANDARDS FOR WORKER SAFETY.
10. THE CONTRACTOR SHALL CONFIRM ALL EARTHWORK QUANTITIES PRIOR TO THE START OF CONSTRUCTION. IF AN EXCESS OR SHORTAGE OF EARTH IS ENCOUNTERED, THE CONTRACTOR SHALL CONFIRM WITH THE OWNER AND ENGINEER THE REQUIREMENTS FOR STOCKPILING, REMOVAL OR IMPORTING OF EARTH.
11. PROVIDE POSITIVE DRAINAGE WITHOUT PONDING IN ALL AREAS AFTER INSTALLATION. CONTRACTOR TO TEST FOR AND CORRECT ANY PONDING CONDITIONS. ANY AREAS THAT HOLD WATER MORE THAN 1/8" DEEP SHALL BE CUT OUT AND CORRECTED TO POSITIVE DRAINAGE AT NO COST TO THE OWNER/ DEVELOPER/ OR ENGINEER.
12. VERTICAL CURVES, WITH A MINIMUM LENGTH OF 50', SHALL BE USED WHERE POSSIBLE BETWEEN VERTICAL CHANGES IN DIRECTION (SLOPE) TO ALLOW FOR POSITIVE DRAINAGE AND SMOOTH TRANSITIONS.
13. CONTRACTOR TO INSTALL CONCRETE CRADLES WHEN THE VERTICAL SEPARATION (AS MEASURED FROM THE EXTERIOR OF THE PIPES) BETWEEN SANITARY SEWER FACILITIES, WATER MAIN, AND STORM SEWERS IS 18" OR LESS.
14. ALL HDPE PIPE SHALL BE DUAL WALLED, HANCOR HQ, ADS N-12 PIPE OR APPROVED EQUAL
15. ALL FITTINGS AND ACCESSORIES INCLUDING BUT NOT LIMITED TO END CAPS, CLEANOUTS, REDUCERS, ETC., SHALL BE OF HDPE MATERIAL COMPARABLE WITH STORAGE PIPES
16. PROVIDE BACKFILL WITH A MINIMUM OF 4" BEDDING MATERIAL OF #8 AGGREGATE COMPACTED IN 8" LIFTS TO 95% MAXIMUM DRY DENSITY
17. VERIFY EXISTING STORM INVERT ELEVATIONS PRIOR TO STARTING NEW STORM SEWER CONNECTION
18. THE SITE DOES NOT LIE IN A SPECIAL FLOOD HAZARD AREA AS ESTABLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY - NATIONAL FLOOD INSURANCE PROGRAM, WHEN PLOTTED BY SCALE ON FLOOD INSURANCE RATE MAP #180081C0227 D, DATED AUGUST 2, 2007.

EXISTING AREAS

PERVIOUS	=	14.25	AC.
IMPERVIOUS	=	0.75	AC.

PROPOSED AREAS

PERVIOUS	=	4.85	AC.
IMPERVIOUS	=	10.15	AC.

BENCHMARK INFORMATION

BENCHMARK INFORMATION
DNR TBM CD 1, 1988 IN JOHNSON COUNTY, FRANKLIN QUADRANGLE, IN THE NE ¼ OF SECTION 10, TOWNSHIP 12 NORTH, RANGE 4 EAST, 2ND P.M.; AT FRANKLIN; AT THE U.S. 31 BRIDGE OVER CANARY DITCH; SET IN THE TOP OF THE SOUTHEAST CONCRETE WINGWALL OF THE BRIDGE, 25.8 FEET EAST OF THE CENTERLINE OF THE BRIDGE, 0.6 FOOT NORTH OF THE SOUTH END OF THE WINGWALL 1.0 FOOT BELOW THE LEVEL OF THE ROAD; A "PK" NAIL SET IN A DRILL HOLE, INSIDE A CUT CIRCLE.
2ND ORDER ELEVATION
REVISED ELEVATION 229.240 METERS N.G.V.D. 1929
752.099 FEET N.G.V.D. 1929 (751.693 FEET N.A.V.D.1988)

TBM #1 ELEV: 745.81 CUT SQUARE ON TOP ON A CONCRETE LIGHT BASE ON THE WEST EDGE OF CONCRETE, DUE WEST OF THE SOUTHWEST CORNER OF THE SHERWIN WILLIAMS BUILDING SQUARE IS APPROXIMATELY 15 FEET NORTHEAST OF A DRIVE STUB BEHIND THE BUILDING.

TBM #2 ELEV: 747.77 CUT SQUARE IN THE NORTHWEST CORNER OF A CONCRETE WATER VAULT ON THE EAST SIDE OF THE MIDDLE KOHL'S ENTRANCE LOCATED ON THE SOUTH SIDE OF MALLORY PARKWAY.

TBM #3 ELEV: 742.94 CUT SQUARE IN THE SOUTHEAST CORNER OF A CONCRETE WATER VAULT DUE EAST OF THE SOUTHEAST CORNER OF CANARY CREEK CINEMA BUILDING.

PLAN CERTIFICATE NOTE:

ORIGINAL ALTA, TOPOGRAPHY, UTILITIES, STORM SEWERS, AND ALL OTHER EXISTING CONDITIONS ITEMS WERE PREPARED BY BANNING ENGINEERING.

FINAL DRAWINGS FOR THE KROGER SITE WERE PREPARED BY WEIHE ENGINEERS, INC. AND JAMES K. SHINNEMAN. FINAL CONSTRUCTION PLANS ARE THOSE PLANS CONTAINING A FINAL REVISION DATE AFTER 02/12/2015. WEIHE ENGINEERS, INC. AND JAMES K. SHINNEMAN ACCEPT RESPONSIBILITY ONLY FOR THE KROGER SITE IMPROVEMENTS RELATED TO THE ENGINEERING WORK SHOWN ON THESE PLANS.

LEGEND

Symbol		Description
FH	=	EXIST. FIRE HYDRANT
WM	=	EXIST. WATER METER/VALVE
	=	EXIST. SIGN
	=	EXIST. MONITOR WELL
• PKF	=	EXIST. IRON PIN & OR PK (SET/FOUND)
GM	=	EXIST. GAS METER
	=	EXIST. GAS VALVE
	=	EXIST. STORM INLET
MH	=	EXIST. STORM/SAN./TELE. MANHOLE
EM	=	EXIST. ELECTRIC METER
	=	EXIST. POWER POLE/POWER POLE w/ LIGHT
GA	=	EXIST. GUY ANCHOR
T.Ped.	=	EXIST. TELEPHONE PEDESTAL
AC	=	HVAC UNIT
CO	=	CLEANOUT
MB	=	MAILBOX
	=	LIGHT POLE
BOL	=	EXIST. BOLLARD
	=	EXIST. SANITARY SEWER LINE
	=	EXIST. STORM SEWER LINE
892	=	EXIST. CONTOURS
	=	CONCRETE END SECTION (C.E.S.)
GP	=	GATE POST
	=	TRANSFORMER
	=	RIGHT-OF-WAY LINE
	=	PROPOSED SANITARY SEWER LINE
	=	PROPOSED STORM SEWER LINE
STM	=	PROPOSED HDPE ROOF DRAIN
	=	PROPOSED PIPE BOLLARD
	=	PROPOSED MANHOLE (MH)
892	=	PROPOSED CONTOURS
894.50	=	PROPOSED ELEVATION
	=	DRAINAGE FLOW ARROW
	=	EXISTING TREE LINE
	=	PROPOSED DIRECTIONAL SIGN
F.F.E.	=	FINISH FLOOR ELEVATION
TC	=	TOP OF (MANHOLE / INLET) CASTING
INV	=	INVERT ELEVATION
RCP	=	REINFORCED CONCRETE PIPE
CMP	=	CORRUGATED METAL PIPE
PVC	=	POLYVINYL CHLORIDE PIPE
HDPE	=	HIGH DENSITY POLYETHYLENE
···	=	FLOW LINE
STR.	=	STRUCTURE
M.E.G. OR M.E.	=	MATCH EXISTING GRADE
TOW OR TW	=	TOP OF WALL
SSD	=	SUB-SURFACE DRAINAGE
TOC	=	TOP OF CURB
GUT	=	GUTTER
W	=	WATER LINE
G	=	GAS LINE
OHU	=	OVERHEAD UTILITY LINE
T	=	TELEPHONE LINE
E	=	ELECTRIC LINE
TBM	=	TEMPORARY BENCHMARK
XX	=	PARKING COUNT
	=	EMERGENCY FLOOD ROUTE

EARTHWORK NOTES

- IMPORTING FILL MATERIAL FROM AN OFFSITE LOCATION WITHOUT WRITTEN APPROVAL FROM THE KROGER PROJECT MANAGER IS STRICTLY PROHIBITED. IDENTIFICATION OF OFFSITE BORROW LOCATIONS AND MATERIAL MUST BE COORDINATED AND DOCUMENTED WITH THE STORM WATER POLLUTION PREVENTION PLAN. A KROGER APPROVED TESTING FIRM MUST VERIFY THE SUITABILITY OF ALL OFFSITE MATERIAL. THIS INCLUDES ANALYSIS TO INSURE THAT NO ENVIRONMENTAL CONTAMINATION IS PRESENT. IF ANY MATERIAL IS BROUGHT ONSITE WITHOUT PRIOR WRITTEN APPROVAL OF THE KROGER PROJECT MANAGER, THE CONTRACTOR WILL BEAR ALL COSTS ASSOCIATED WITH REMOVING THE MATERIAL , TESTING FOR CONTAMINATION, MONITORING THE CLEANUP OPERATION, DISPOSAL IN AN APPROVED LANDFILL, AND CERTIFYING THAT THE KROGER SITE IS ENVIRONMENTALLY CLEAN.
- IF REQUESTED, THE KROGER PROJECT MANAGER, OR KROGER'S CONSULTANTS MUST BE GRANTED UNFETTERED ACCESS TO ANY AND ALL BORROW SITES.

BUILDING PAD NOTES

- THE KROGER APPROVED TESTING AGENCY AND PROJECT SURVEYOR MUST CERTIFY THE BUILDING PAD USING THE, "PAD CERTIFICATION FORM," INCLUDED IN THE PROJECT SPECIFICATIONS, PRIOR TO THE COMMENCEMENT OF THE BUILDING FOUNDATIONS.
- COMPACTED BUILDING PAD(S) MUST EXTEND A MINIMUM OF TEN (10) FEET BEYOND THE BUILDING FOOTPRINT, INCLUDING CANOPIES OR OTHER STRUCTURAL APPENDAGES, UNTIL THE PERIMETER FOUNDATIONS AND WALLS ARE CONSTRUCTED AND BACKFILLED. THE EXTENDED PORTION OF THE BUILDING PAD SUBGRADE MUST BE REMOVED/REGRADED TO MEET THE FINAL GRADE AND MATERIAL REQUIREMENTS AROUND THE BUILDINGS' PERIMETER.

POND

N.P.	= 735.50
2 YR.	= 738.78
10 YR.	= 739.79
100 YR.	= 740.87
SPILLWAY	= 742.00
BOTTOM	= 725.00
BFE	= 743.00

SCALE: 1" = 50
0 25 50 100

811 Know what's below. Call before you dig.
Within Indiana Call
811 or 800-382-5544
24 Hours a Day, 7 Days a Week.
PER INDIANA STATE LAW IC 8-1-26. IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

10505 N. College Avenue
Indianapolis, Indiana 46280
weihe.net
317 | 846 - 6611
800 | 452 - 6408
317 | 843 - 0546 fax
ALLAN H. WEIHE, P.E., L.S. - FOUNDER
WEIHE ENGINEERS
Land Surveying | Civil Engineering
Landscape Architecture

PROJECT NO.:	DWG NAME:	DESIGNED BY:	DRAWN BY:	CHECKED BY:	DATE:
W14.0460	w140460-C300 grad.dwg	RLW/RAM	RLW/RAM	JKS	02.12.2015

REVISIONS AND ISSUES	DATE	BY
SUBMITTED FOR INITIAL REVIEW	02.12.2015	BJS

JAMES K. SHINNEMAN REGISTERED No. 10200392 STATE OF INDIANA PROFESSIONAL ENGINEER
APPROVAL PENDING NOT FOR CONSTRUCTION
JAMES K. SHINNEMAN P.E. 10200392

PREPARED FOR:
KROGER STORE J-979
KROGER MARKETPLACE - MALLORY PARKWAY AND U.S. 31
GRADING PLAN
Part of the NE/4 of Section 15, Township 12 North, Range 4 East, Franklin Township, Johnson County, Indiana

SHEET NO.
C3.02
PROJECT NO.
W14.0460

LOCATION: H:\2014\W140460\Engineering\design\conset\w140460-C300 grad.dwg
LAYOUT: C3.02
DATE/TIME: February 12, 2015 – 7:30am
PLOTTED BY: schoeffb

LIMITS OF ZONE X

LIMITS OF ZONE AE

N 00°19'56" E 1467.70'
N 00°19'56" E 1467.70'

S 89°39'20" E 726.19'

15' BSL

20' BSL

TRACT "B"
11.54 AC. +/-
MADISON STREET PROPERTIES, LLC
INSTR. #2013029953

GENERAL GRADING NOTES

1. REFER TO THE INDIANA DEPARTMENT OF TRANSPORTATION (INDOT) STANDARD SPECIFICATIONS, LATEST EDITION, FOR BASIC MATERIALS AND CONSTRUCTION METHODS. THE SECTIONS BELOW FOR VARIOUS ITEMS ARE TO CLARIFY THE INTENT OF THE REQUIREMENTS FOR THIS PROJECT. PLEASE NOTE THAT OTHER SECTIONS OF THE INDOT STANDARD SPECIFICATIONS MAY ALSO BE APPLICABLE.
2. FILL MATERIAL SHALL CONSIST OF EARTH OBTAINED FROM CUT AREAS, BORROW PITS OR OTHER APPROVED SOURCES. EARTH SHALL BE FREE FROM ORGANIC MATTER AND OTHER DELETERIOUS SUBSTANCES AND LARGE ROCKS. THE FILL MATERIAL SHALL BE PLACED IN LAYERS NOT TO EXCEED SIX INCHES FOLLOWING COMPACTION, PROPER MOISTURE CONTENT OF FILL MATERIAL WILL BE SUCH TO ACHIEVE SPECIFIED COMPACTION DENSITY. ALL FILL BENEATH PAVED AREAS, FLOOR SLABS AND FUTURE BUILDINGS SHALL BE COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY PER ASTM D-1557. FIELD COMPACTING TEST SHALL BE RUN ON EACH LIFT, IN FILL SECTIONS, AND THE REQUIRED COMPACTION ON EACH LIFT SHALL BE IN ACCORDANCE WITH INDOT SECTION 211.
3. MAXIMUM LAWN SLOPE IS 3:1.
4. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES TO LOCATE MAINS, CONDUITS, SERVICE LINES, ETC. IN THE AFFECTED CONSTRUCTION AREA. EXISTING UTILITY STRUCTURES ARE SHOWN HERE IN ACCORDANCE WITH AVAILABLE INFORMATION. THE LOCATION AND PROTECTION OF UTILITY STRUCTURES, THEIR SUPPORT AND MAINTENANCE DURING CONSTRUCTION (IN COOPERATION WITH APPLICABLE UTILITY COMPANY) IS THE EXPRESSED RESPONSIBILITY OF THE CONTRACTOR.
5. ALL SPOT ELEVATIONS ARE TO FINISHED GRADE.
6. COMPACTED "B" BORROW BACK FILL REQ'D. OVER ALL UTILITIES IN PAVED AREAS.
7. ALL GRADES AT BOUNDARY SHALL MEET EXISTING.
8. ANY PART OF SANITARY OR STORM SEWER TRENCHES RUNNING UNDER OR WITHIN 5' OF PAVEMENT TO BE BACKFILLED WITH GRANULAR MATERIAL.
9. ALL CONSTRUCTION ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH O.S.H.A. STANDARDS FOR WORKER SAFETY.
10. THE CONTRACTOR SHALL CONFIRM ALL EARTHWORK QUANTITIES PRIOR TO THE START OF CONSTRUCTION. IF AN EXCESS OR SHORTAGE OF EARTH IS ENCOUNTERED, THE CONTRACTOR SHALL CONFIRM WITH THE OWNER AND ENGINEER THE REQUIREMENTS FOR STOCKPILING, REMOVAL OR IMPORTING OF EARTH.
11. PROVIDE POSITIVE DRAINAGE WITHOUT PONDING IN ALL AREAS AFTER INSTALLATION. CONTRACTOR TO TEST FOR AND CORRECT ANY PONDING CONDITIONS. ANY AREAS THAT HOLD WATER MORE THAN 1/8" DEEP SHALL BE CUT OUT AND CORRECTED TO POSITIVE DRAINAGE AT NO COST TO THE OWNER/ DEVELOPER/ OR ENGINEER.
12. VERTICAL CURVES, WITH A MINIMUM LENGTH OF 50', SHALL BE USED WHERE POSSIBLE BETWEEN VERTICAL CHANGES IN DIRECTION (SLOPE) TO ALLOW FOR POSITIVE DRAINAGE AND SMOOTH TRANSITIONS.
13. CONTRACTOR TO INSTALL CONCRETE CRADLES WHEN THE VERTICAL SEPARATION (AS MEASURED FROM THE EXTERIOR OF THE PIPES) BETWEEN SANITARY SEWER FACILITIES, WATER MAIN, AND STORM SEWERS IS 18" OR LESS.
14. ALL HDPE PIPE SHALL BE DUAL WALLED, HANCOR HQ, ADS N-12 PIPE OR APPROVED EQUAL
15. ALL FITTINGS AND ACCESSORIES INCLUDING BUT NOT LIMITED TO END CAPS, CLEANOUTS, REDUCERS, ETC., SHALL BE OF HDPE MATERIAL COMPARABLE WITH STORAGE PIPES
16. PROVIDE BACKFILL WITH A MINIMUM OF 4" BEDDING MATERIAL OF #8 AGGREGATE COMPACTED IN 8" LIFTS TO 95% MAXIMUM DRY DENSITY
17. VERIFY EXISTING STORM INVERT ELEVATIONS PRIOR TO STARTING NEW STORM SEWER CONNECTION
18. THE SITE DOES NOT LIE IN A SPECIAL FLOOD HAZARD AREA AS ESTABLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY - NATIONAL FLOOD INSURANCE PROGRAM, WHEN PLOTTED BY SCALE ON FLOOD INSURANCE RATE MAP #18081C0227 D, DATED AUGUST 2, 2007.

LEGEND

FH	EXIST. FIRE HYDRANT
WM	EXIST. WATER METER/VALVE
	EXIST. SIGN
	EXIST. MONITOR WELL
PKF	EXIST. IRON PIN & OR PK (SET/FOUND)
GM	EXIST. GAS METER
	EXIST. GAS VALVE
	EXIST. STORM INLET
	EXIST. STORM/SAN./TELE. MANHOLE
EM	EXIST. ELECTRIC METER
	EXIST. POWER POLE/POWER POLE w/ LIGHT
GA	EXIST. GUY ANCHOR
T.Ped.	EXIST. TELEPHONE PEDESTAL
AC	HVAC UNIT
CO	CLEANOUT
MB	MAILBOX
	LIGHT POLE
BOL	EXIST. BOLLARD
	EXIST. SANITARY SEWER LINE
	EXIST. STORM SEWER LINE
892	EXIST. CONTOURS
	CONCRETE END SECTION (C.E.S.)
GP	GATE POST
	TRANSFORMER
	RIGHT-OF-WAY LINE
	PROPOSED SANITARY SEWER LINE
	PROPOSED STORM SEWER LINE
STM	PROPOSED HDPE ROOF DRAIN
	PROPOSED PIPE BOLLARD
	PROPOSED MANHOLE (MH)
892	PROPOSED CONTOURS
894.50	PROPOSED ELEVATION
	DRAINAGE FLOW ARROW
	EXISTING TREE LINE
D	PROPOSED DIRECTIONAL SIGN
F.F.E.	FINISH FLOOR ELEVATION
TC	TOP OF (MANHOLE / INLET) CASTING
INV	INVERT ELEVATION
RCP	REINFORCED CONCRETE PIPE
CMP	CORRUGATED METAL PIPE
PVC	POLYVINYL CHLORIDE PIPE
HDPE	HIGH DENSITY POLYETHYLENE
	FLOW LINE
STR.	STRUCTURE
M.E.G. OR M.E.	MATCH EXISTING GRADE
TOW OR TW	TOP OF WALL
SSD	SUB-SURFACE DRAINAGE
TOC	TOP OF CURB
GUT	GUTTER
W	WATER LINE
G	GAS LINE
OHU	OVERHEAD UTILITY LINE
T	TELEPHONE LINE
E	ELECTRIC LINE
TBM	TEMPORARY BENCHMARK
XX	PARKING COUNT
	EMERGENCY FLOOD ROUTE

PLAN CERTIFICATE NOTE:

ORIGINAL ALTA, TOPOGRAPHY, UTILITIES, STORM SEWERS, AND ALL OTHER EXISTING CONDITIONS ITEMS WERE PREPARED BY BANNING ENGINEERING.

FINAL DRAWINGS FOR THE KROGER SITE WERE PREPARED BY WEIHE ENGINEERS, INC. AND JAMES K. SHINNEMAN. FINAL CONSTRUCTION PLANS ARE THOSE PLANS CONTAINING A FINAL REVISION DATE AFTER 02/12/2015. WEIHE ENGINEERS, INC. AND JAMES K. SHINNEMAN ACCEPT RESPONSIBILITY ONLY FOR THE KROGER SITE IMPROVEMENTS RELATED TO THE ENGINEERING WORK SHOWN ON THESE PLANS.

SCALE: 1" = 20

0 10 20 40

Know what's below. Call before you dig.
Within Indiana Call 811 or 800-382-5544
24 Hours a Day, 7 Days a Week.
PER INDIANA STATE LAW IC 8-1-26, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

10505 N. College Avenue
Indianapolis, Indiana 46280
weihe.net
317 | 846 - 6611
800 | 452 - 6408
317 | 843 - 0546 fax
ALLAN H. WEIHE, P.E., L.S. - FOUNDER

WEIHE ENGINEERS
Land Surveying | Civil Engineering
Landscape Architecture

	DATE	BY
REVISIONS AND ISSUES: SUBMITTED FOR INITIAL REVIEW	02.12.2015	BJS

PROJECT NO.: W14.0460
DWG. NAME: w140460-C300 grading quad.dwg
DESIGNED BY: RJWRAM
DRAWN BY: RJWRAM
CHECKED BY: JKS
DATE: 02.12.2015

JAMES K. SHINNEMAN REGISTERED NO. 10200392 STATE OF INDIANA PROFESSIONAL ENGINEER
APPROVED FOR CONSTRUCTION NOT APPROVED FOR CONSTRUCTION

JAMES K. SHINNEMAN P.E. 10200392

PREPARED FOR: KROGER STORE J-979

KROGER MARKETPLACE - MALLORY PARKWAY AND U.S. 31

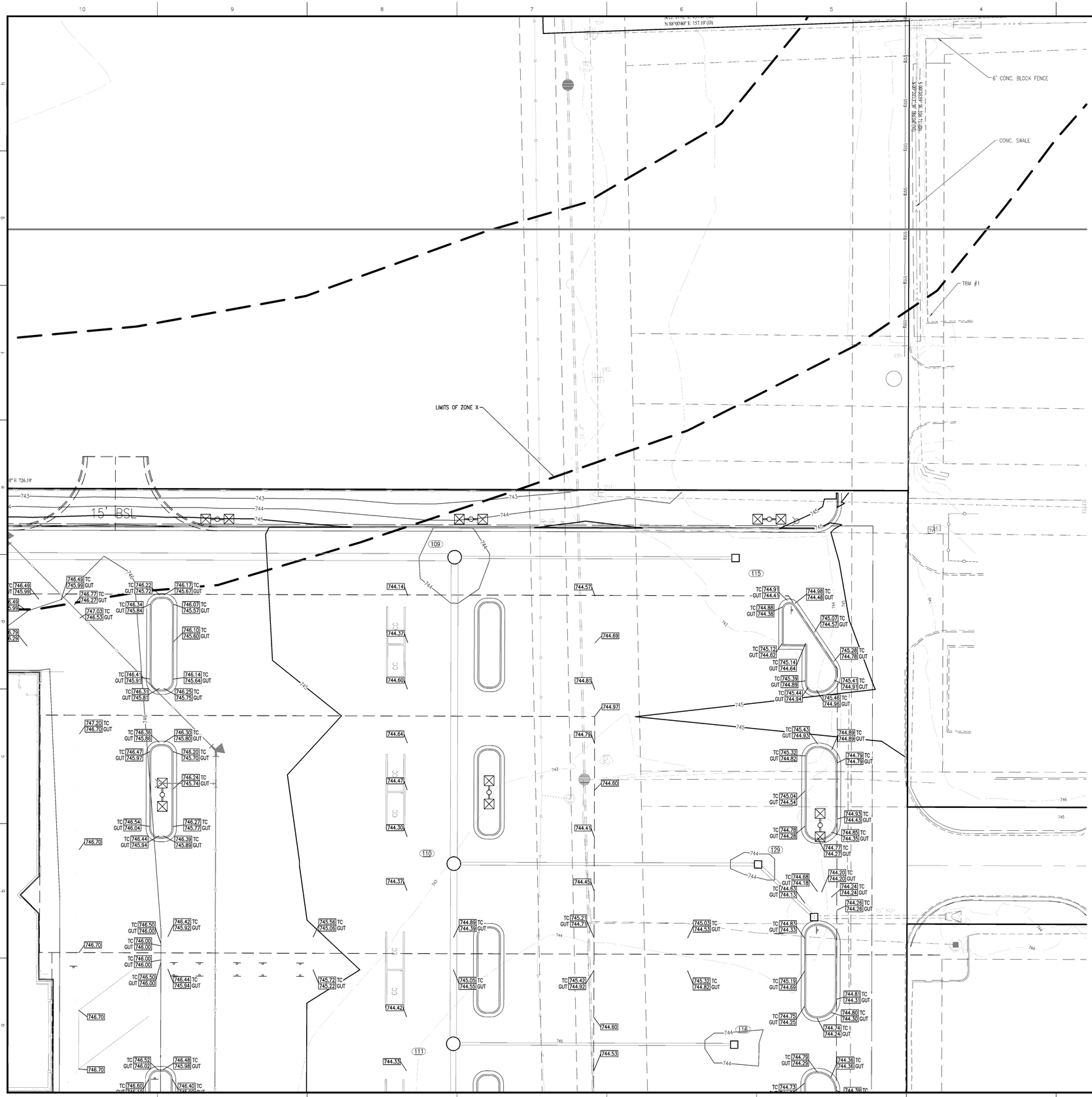
ENLARGED GRADING PLAN

Part of the NE/4 of Section 15, Township 12 North, Range 4 East, Franklin Township, Johnson County, Indiana

SHEET NO.: C3.03

PROJECT NO.: W14.0460

LOCATION: I:\J\2014\W14046O\Engineering\Design\Consist\w140460- C300 grading quad.dwg
LAYOUT: C3.03
DATE/TIME: February 12, 2015 - 7:31am
PLOTTED BY: schoefle



GENERAL GRADING NOTES

1. REFER TO THE INDIANA DEPARTMENT OF TRANSPORTATION (INDOT) STANDARD SPECIFICATIONS, LATEST EDITION, FOR BASIC MATERIALS AND CONSTRUCTION METHODS. THE SECTIONS BELOW FOR VARIOUS ITEMS ARE TO CLARIFY THE INTENT OF THE REQUIREMENTS FOR THIS PROJECT. PLEASE NOTE THAT OTHER SECTIONS OF THE INDOT STANDARD SPECIFICATIONS MAY ALSO BE APPLICABLE.
2. FILL MATERIAL SHALL CONSIST OF EARTH OBTAINED FROM CUT AREAS, BORROW PITS OR OTHER APPROVED SOURCES. EARTH SHALL BE FREE FROM ORGANIC MATTER AND OTHER DELETERIOUS SUBSTANCES AND LARGE ROCKS. THE FILL MATERIAL SHALL BE PLACED IN LAYERS NOT TO EXCEED SIX INCHES FOLLOWING COMPACTION, PROPER MOISTURE CONTENT OF FILL MATERIAL WILL BE SUCH TO ACHIEVE SPECIFIED COMPACTION DENSITY. ALL FILL BENEATH PAVED AREAS, FLOOR SLABS AND FUTURE BUILDINGS SHALL BE COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY PER ASTM D-1557. FIELD COMPACTING TEST SHALL BE RUN ON EACH LIFT, IN FILL SECTIONS, AND THE REQUIRED COMPACTION ON EACH LIFT SHALL BE IN ACCORDANCE WITH INDOT SECTION 211.
3. MAXIMUM LAWN SLOPE IS 3:1.
4. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES TO LOCATE MAINS, CONDUITS, SERVICE LINES, ETC. IN THE AFFECTED CONSTRUCTION AREA. EXISTING UTILITY STRUCTURES ARE SHOWN HERE IN ACCORDANCE WITH AVAILABLE INFORMATION. THE LOCATION AND PROTECTION OF UTILITY STRUCTURES, THEIR SUPPORT AND MAINTENANCE DURING CONSTRUCTION (IN COOPERATION WITH APPLICABLE UTILITY COMPANY) IS THE EXPRESSED RESPONSIBILITY OF THE CONTRACTOR.
5. ALL SPOT ELEVATIONS ARE TO FINISHED GRADE.
6. COMPACTED "B" BORROW BACK FILL REQ'D. OVER ALL UTILITIES IN PAVED AREAS.
7. ALL GRADES AT BOUNDARY SHALL MEET EXISTING.
8. ANY PART OF SANITARY OR STORM SEWER TRENCHES RUNNING UNDER OR WITHIN 5' OF PAVEMENT TO BE BACKFILLED WITH GRANULAR MATERIAL.
9. ALL CONSTRUCTION ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH O.S.H.A. STANDARDS FOR WORKER SAFETY.
10. THE CONTRACTOR SHALL CONFIRM ALL EARTHWORK QUANTITIES PRIOR TO THE START OF CONSTRUCTION. IF AN EXCESS OR SHORTAGE OF EARTH IS ENCOUNTERED, THE CONTRACTOR SHALL CONFIRM WITH THE OWNER AND ENGINEER THE REQUIREMENTS FOR STOCKPILING, REMOVAL OR IMPORTING OF EARTH.
11. PROVIDE POSITIVE DRAINAGE WITHOUT PONDING IN ALL AREAS AFTER INSTALLATION. CONTRACTOR TO TEST FOR AND CORRECT ANY PONDING CONDITIONS. ANY AREAS THAT HOLD WATER MORE THAN 1/8" DEEP SHALL BE CUT OUT AND CORRECTED TO POSITIVE DRAINAGE AT NO COST TO THE OWNER/ DEVELOPER/ OR ENGINEER.
12. VERTICAL CURVES, WITH A MINIMUM LENGTH OF 50', SHALL BE USED WHERE POSSIBLE BETWEEN VERTICAL CHANGES IN DIRECTION (SLOPE) TO ALLOW FOR POSITIVE DRAINAGE AND SMOOTH TRANSITIONS.
13. CONTRACTOR TO INSTALL CONCRETE CRADLES WHEN THE VERTICAL SEPARATION (AS MEASURED FROM THE EXTERIOR OF THE PIPES) BETWEEN SANITARY SEWER FACILITIES, WATER MAIN, AND STORM SEWERS IS 18" OR LESS.
14. ALL HDPE PIPE SHALL BE DUAL WALLED, HANCOR HQ, ADS N-12 PIPE OR APPROVED EQUAL
15. ALL FITTINGS AND ACCESSORIES INCLUDING BUT NOT LIMITED TO END CAPS, CLEANOUTS, REDUCERS, ETC., SHALL BE OF HDPE MATERIAL COMPARABLE WITH STORAGE PIPES
16. PROVIDE BACKFILL WITH A MINIMUM OF 4" BEDDING MATERIAL OF #8 AGGREGATE COMPACTED IN 8" LIFTS TO 95% MAXIMUM DRY DENSITY
17. VERIFY EXISTING STORM INVERT ELEVATIONS PRIOR TO STARTING NEW STORM SEWER CONNECTION
18. THE SITE DOES NOT LIE IN A SPECIAL FLOOD HAZARD AREA AS ESTABLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY - NATIONAL FLOOD INSURANCE PROGRAM, WHEN PLOTTED BY SCALE ON FLOOD INSURANCE RATE MAP #18081C0227 D, DATED AUGUST 2, 2007.

LEGEND

FH	EXIST. FIRE HYDRANT
WM	EXIST. WATER METER/VALVE
	EXIST. SIGN
	EXIST. MONITOR WELL
PKF	EXIST. IRON PIN & OR PK (SET/FOUND)
GM GM	EXIST. GAS METER
	EXIST. GAS VALVE
	EXIST. STORM INLET
	EXIST. STORM/SAN./TELE. MANHOLE
EM	EXIST. ELECTRIC METER
	EXIST. POWER POLE/POWER POLE w/ LIGHT
GA	EXIST. GUY ANCHOR
T.Ped. T	EXIST. TELEPHONE PEDESTAL
AC	HVAC UNIT
CO	CLEANOUT
MB	MAILBOX
	LIGHT POLE
BOL	EXIST. BOLLARD
	EXIST. SANITARY SEWER LINE
	EXIST. STORM SEWER LINE
892	EXIST. CONTOURS
	CONCRETE END SECTION (C.E.S.)
GP	GATE POST
	TRANSFORMER
	RIGHT-OF-WAY LINE
	PROPOSED SANITARY SEWER LINE
	PROPOSED STORM SEWER LINE
STM	PROPOSED HDPE ROOF DRAIN
	PROPOSED PIPE BOLLARD
	PROPOSED MANHOLE (MH)
892	PROPOSED CONTOURS
894.50	PROPOSED ELEVATION
	DRAINAGE FLOW ARROW
	EXISTING TREE LINE
D	PROPOSED DIRECTIONAL SIGN
F.F.E.	FINISH FLOOR ELEVATION
TC	TOP OF (MANHOLE / INLET) CASTING
INV	INVERT ELEVATION
RCP	REINFORCED CONCRETE PIPE
CMP	CORRUGATED METAL PIPE
PVC	POLYVINYL CHLORIDE PIPE
HDPE	HIGH DENSITY POLYETHYLENE
	FLOW LINE
STR.	STRUCTURE
M.E.G. OR M.E.	MATCH EXISTING GRADE
TOW OR TW	TOP OF WALL
SSD	SUB-SURFACE DRAINAGE
TOC	TOP OF CURB
GUT	GUTTER
W	WATER LINE
G	GAS LINE
OHU	OVERHEAD UTILITY LINE
T	TELEPHONE LINE
E	ELECTRIC LINE
TBM XX	TEMPORARY BENCHMARK
XX	PARKING COUNT
	EMERGENCY FLOOD ROUTE

PLAN CERTIFICATE NOTE:

ORIGINAL ALTA, TOPOGRAPHY, UTILITIES, STORM SEWERS, AND ALL OTHER EXISTING CONDITIONS ITEMS WERE PREPARED BY BANNING ENGINEERING.

FINAL DRAWINGS FOR THE KROGER SITE WERE PREPARED BY WEIHE ENGINEERS, INC. AND JAMES K. SHINNEMAN. FINAL CONSTRUCTION PLANS ARE THOSE PLANS CONTAINING A FINAL REVISION DATE AFTER 02/12/2015. WEIHE ENGINEERS, INC. AND JAMES K. SHINNEMAN ACCEPT RESPONSIBILITY ONLY FOR THE KROGER SITE IMPROVEMENTS RELATED TO THE ENGINEERING WORK SHOWN ON THESE PLANS.

SCALE: 1" = 20

0 10 20 40

Know what's below. Call before you dig.
Within Indiana Call 811 or 800-382-5544
24 Hours a Day, 7 Days a Week.
PER INDIANA STATE LAW IC 8-1-26, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

10505 N. College Avenue
Indianapolis, Indiana 46280
weihe.net
317 | 846 - 6611
800 | 452 - 6408
317 | 843 - 0546 fax
ALLAN H. WEIHE, P.E., L.S. - FOUNDER

WEIHE ENGINEERS
Land Surveying | Civil Engineering
Landscape Architecture

	BY	DATE
REVISIONS AND ISSUES SUBMITTED FOR INITIAL REVIEW	BJS	02.12.2015

PROJECT NO. W14460
DWG NAME w:\14460-C300 grading quad.dwg
DESIGNED BY: RJWFAM
DRAWN BY: RJWFAM
CHECKED BY: JKS
DATE: 02.12.2015

JAMES K. SHINNEMAN REGISTERED NO. 10200392 STATE OF INDIANA PROFESSIONAL ENGINEER
THIS DOCUMENT IS NOT A CERTIFIED SURVEY
JAMES K. SHINNEMAN P.E. 10200392

PREPARED FOR:
KROGER STORE J-979

KROGER MARKETPLACE - MALLORY PARKWAY AND U.S. 31

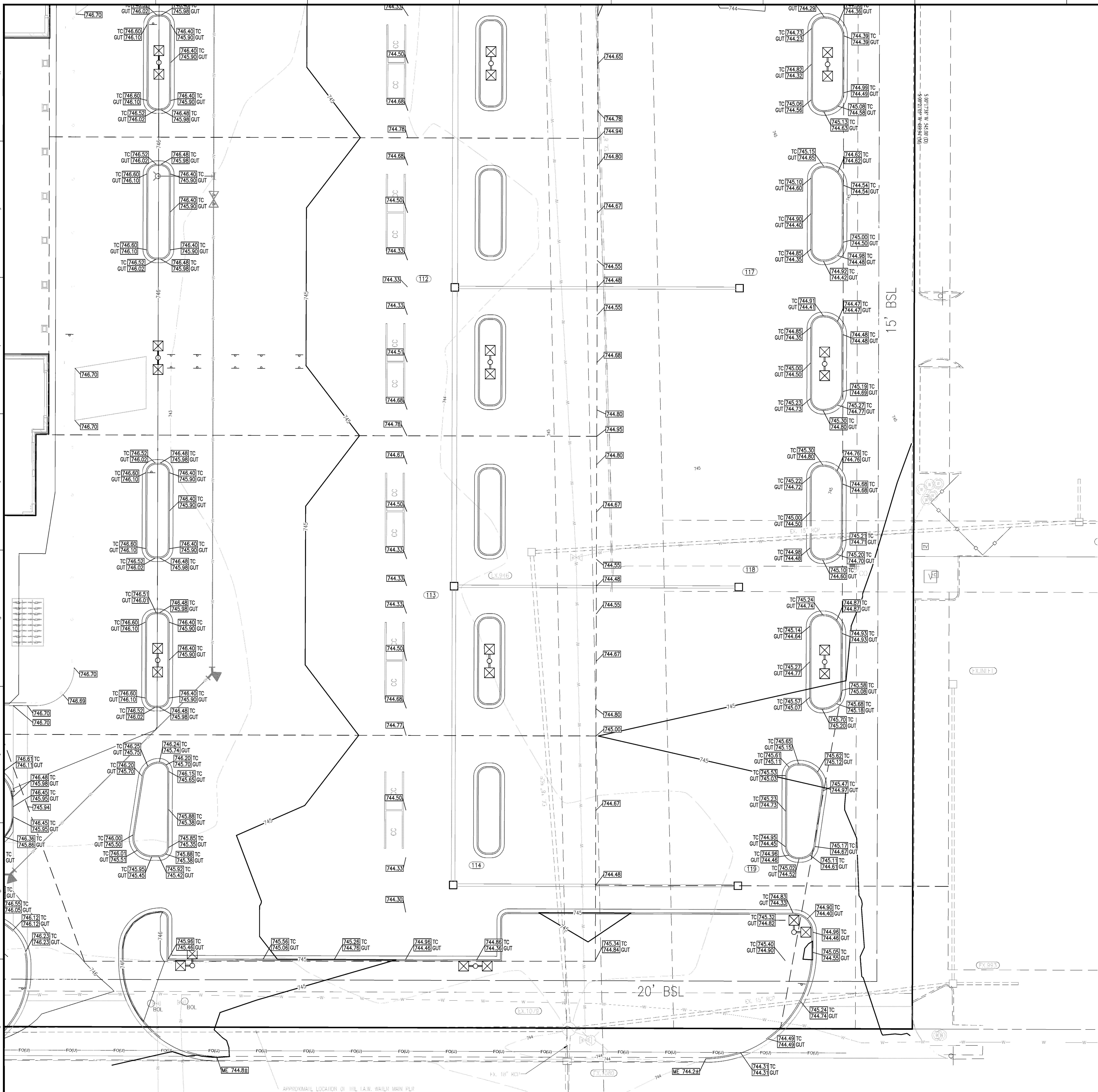
ENLARGED GRADING PLAN

Part of the NE¼ of Section 15, Township 12 North, Range 4 East, Franklin Township, Johnson County, Indiana

SHEET NO.
C3.04

PROJECT NO.
W14.0460

LOCATION: H:\2014\W14460\Engineering\design\constwk\w14460 -C300 grading quad.dwg
LOGIN NAME: rjwfam
DATE/TIME: February 12, 2015 - 7:31am
PLOTTED BY: schoello



GENERAL GRADING NOTES

1. REFER TO THE INDIANA DEPARTMENT OF TRANSPORTATION (INDOT) STANDARD SPECIFICATIONS, LATEST EDITION, FOR BASIC MATERIALS AND CONSTRUCTION METHODS. THE SECTIONS BELOW FOR VARIOUS ITEMS ARE TO CLARIFY THE INTENT OF THE REQUIREMENTS FOR THIS PROJECT. PLEASE NOTE THAT OTHER SECTIONS OF THE INDOT STANDARD SPECIFICATIONS MAY ALSO BE APPLICABLE.
2. FILL MATERIAL SHALL CONSIST OF EARTH OBTAINED FROM CUT AREAS, BORROW PITS OR OTHER APPROVED SOURCES. EARTH SHALL BE FREE FROM ORGANIC MATTER AND OTHER DELETERIOUS SUBSTANCES AND LARGE ROCKS. THE FILL MATERIAL SHALL BE PLACED IN LAYERS NOT TO EXCEED SIX INCHES FOLLOWING COMPACTION, PROPER MOISTURE CONTENT OF FILL MATERIAL WILL BE SUCH TO ACHIEVE SPECIFIED COMPACTION DENSITY. ALL FILL BENEATH PAVED AREAS, FLOOR SLABS AND FUTURE BUILDINGS SHALL BE COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY PER ASTM D-1557. FIELD COMPACTING TEST SHALL BE RUN ON EACH LIFT, IN FILL SECTIONS, AND THE REQUIRED COMPACTION ON EACH LIFT SHALL BE IN ACCORDANCE WITH INDOT SECTION 211.
3. MAXIMUM LAWN SLOPE IS 3:1.
4. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES TO LOCATE MAINS, CONDUITS, SERVICE LINES, ETC. IN THE AFFECTED CONSTRUCTION AREA. EXISTING UTILITY STRUCTURES ARE SHOWN HERE IN ACCORDANCE WITH AVAILABLE INFORMATION. THE LOCATION AND PROTECTION OF UTILITY STRUCTURES, THEIR SUPPORT AND MAINTENANCE DURING CONSTRUCTION (IN COOPERATION WITH APPLICABLE UTILITY COMPANY) IS THE EXPRESSED RESPONSIBILITY OF THE CONTRACTOR.
5. ALL SPOT ELEVATIONS ARE TO FINISHED GRADE.
6. COMPACTED "B" BORROW BACK FILL REQ'D. OVER ALL UTILITIES IN PAVED AREAS.
7. ALL GRADES AT BOUNDARY SHALL MEET EXISTING.
8. ANY PART OF SANITARY OR STORM SEWER TRENCHES RUNNING UNDER OR WITHIN 5' OF PAVEMENT TO BE BACKFILLED WITH GRANULAR MATERIAL.
9. ALL CONSTRUCTION ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH O.S.H.A. STANDARDS FOR WORKER SAFETY.
10. THE CONTRACTOR SHALL CONFIRM ALL EARTHWORK QUANTITIES PRIOR TO THE START OF CONSTRUCTION. IF AN EXCESS OR SHORTAGE OF EARTH IS ENCOUNTERED, THE CONTRACTOR SHALL CONFIRM WITH THE OWNER AND ENGINEER THE REQUIREMENTS FOR STOCKPILING, REMOVAL OR IMPORTING OF EARTH.
11. PROVIDE POSITIVE DRAINAGE WITHOUT PONDING IN ALL AREAS AFTER INSTALLATION. CONTRACTOR TO TEST FOR AND CORRECT ANY PONDING CONDITIONS. ANY AREAS THAT HOLD WATER MORE THAN 1/8" DEEP SHALL BE CUT OUT AND CORRECTED TO POSITIVE DRAINAGE AT NO COST TO THE OWNER/ DEVELOPER/ OR ENGINEER.
12. VERTICAL CURVES, WITH A MINIMUM LENGTH OF 50', SHALL BE USED WHERE POSSIBLE BETWEEN VERTICAL CHANGES IN DIRECTION (SLOPE) TO ALLOW FOR POSITIVE DRAINAGE AND SMOOTH TRANSITIONS.
13. CONTRACTOR TO INSTALL CONCRETE CRADLES WHEN THE VERTICAL SEPARATION (AS MEASURED FROM THE EXTERIOR OF THE PIPES) BETWEEN SANITARY SEWER FACILITIES, WATER MAIN, AND STORM SEWERS IS 18" OR LESS.
14. ALL HDPE PIPE SHALL BE DUAL WALLED, HANCOR HQ, ADS N-12 PIPE OR APPROVED EQUAL
15. ALL FITTINGS AND ACCESSORIES INCLUDING BUT NOT LIMITED TO END CAPS, CLEANOUTS, REDUCERS, ETC., SHALL BE OF HDPE MATERIAL COMPARABLE WITH STORAGE PIPES
16. PROVIDE BACKFILL WITH A MINIMUM OF 4" BEDDING MATERIAL OF #8 AGGREGATE COMPACTED IN 8" LIFTS TO 95% MAXIMUM DRY DENSITY
17. VERIFY EXISTING STORM INVERT ELEVATIONS PRIOR TO STARTING NEW STORM SEWER CONNECTION
18. THE SITE DOES NOT LIE IN A SPECIAL FLOOD HAZARD AREA AS ESTABLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY - NATIONAL FLOOD INSURANCE PROGRAM, WHEN PLOTTED BY SCALE ON FLOOD INSURANCE RATE MAP #18081C0227 D, DATED AUGUST 2, 2007.

LEGEND

Symbol		Description
FH	=	EXIST. FIRE HYDRANT
WM	=	EXIST. WATER METER/VALVE
	=	EXIST. SIGN
	=	EXIST. MONITOR WELL
PKF	=	EXIST. IRON PIN & OR PK (SET/FOUND)
GM	=	EXIST. GAS METER
	=	EXIST. GAS VALVE
	=	EXIST. STORM INLET
MH	=	EXIST. STORM/SAN./TELE. MANHOLE
EM E	=	EXIST. ELECTRIC METER
UP	=	EXIST. POWER POLE/POWER POLE w/ LIGHT
GA	=	EXIST. GUY ANCHOR
T.Ped. T	=	EXIST. TELEPHONE PEDESTAL
AC	=	HVAC UNIT
CO	=	CLEANOUT
MB	=	MAILBOX
	=	LIGHT POLE
BOL	=	EXIST. BOLLARD
	=	EXIST. SANITARY SEWER LINE
	=	EXIST. STORM SEWER LINE
892	=	EXIST. CONTOURS
	=	CONCRETE END SECTION (C.E.S.)
GP	=	GATE POST
	=	TRANSFORMER
	=	RIGHT-OF-WAY LINE
	=	PROPOSED SANITARY SEWER LINE
	=	PROPOSED STORM SEWER LINE
STM	=	PROPOSED HDPE ROOF DRAIN
	=	PROPOSED PIPE BOLLARD
	=	PROPOSED MANHOLE (MH)
892	=	PROPOSED CONTOURS
894.50	=	PROPOSED ELEVATION
	=	DRAINAGE FLOW ARROW
	=	EXISTING TREE LINE
	=	PROPOSED DIRECTIONAL SIGN
F.F.E.	=	FINISH FLOOR ELEVATION
TC	=	TOP OF (MANHOLE / INLET) CASTING
INV	=	INVERT ELEVATION
RCP	=	REINFORCED CONCRETE PIPE
CMP	=	CORRUGATED METAL PIPE
PVC	=	POLYVINYL CHLORIDE PIPE
HDPE	=	HIGH DENSITY POLYETHYLENE
···	=	FLOW LINE
STR.	=	STRUCTURE
M.E.G. OR M.E.	=	MATCH EXISTING GRADE
TOW OR TW	=	TOP OF WALL
SSD	=	SUB-SURFACE DRAINAGE
TOC	=	TOP OF CURB
GUT	=	GUTTER
W	=	WATER LINE
G	=	GAS LINE
OHU	=	OVERHEAD UTILITY LINE
T	=	TELEPHONE LINE
E	=	ELECTRIC LINE
TBM	=	TEMPORARY BENCHMARK
XX	=	PARKING COUNT
	=	EMERGENCY FLOOD ROUTE

PLAN CERTIFICATE NOTE:

ORIGINAL ALTA, TOPOGRAPHY, UTILITIES, STORM SEWERS, AND ALL OTHER EXISTING CONDITIONS ITEMS WERE PREPARED BY BANNING ENGINEERING.

FINAL DRAWINGS FOR THE KROGER SITE WERE PREPARED BY WEIHE ENGINEERS, INC. AND JAMES K. SHINNEMAN. FINAL CONSTRUCTION PLANS ARE THOSE PLANS CONTAINING A FINAL REVISION DATE AFTER 02/12/2015. WEIHE ENGINEERS, INC. AND JAMES K. SHINNEMAN ACCEPT RESPONSIBILITY ONLY FOR THE KROGER SITE IMPROVEMENTS RELATED TO THE ENGINEERING WORK SHOWN ON THESE PLANS.

SCALE: 1" = 20
0 10 20 40

811
Know what's **below.**
Call before you dig.
Within Indiana Call
811 or 800-382-5544
24 Hours a Day, 7 Days a Week.
PER INDIANA STATE LAW IC 8-1-26. IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

10505 N. College Avenue
Indianapolis, Indiana 46280
weihe.net
317 | 846 - 6611
800 | 452 - 6408
317 | 843 - 0546 fax
ALLAN H. WEIHE, P.E., L.S. - FOUNDER
WEIHE ENGINEERS
Land Surveying | Civil Engineering
Landscape Architecture

PROJECT NO.: W14.0460
DWG NAME: w140460-C300 grading quad.dwg
DESIGNED BY: RLW/RAM
DRAWN BY: RLW/RAM
CHECKED BY: JKS
DATE: 02.12.2015

DATE	BY	REVISIONS AND ISSUES
02.12.2015	BJS	SUBMITTED FOR INITIAL REVIEW

JAMES K. SHINNEMAN REGISTERED No. 10200392 STATE OF INDIANA PROFESSIONAL ENGINEER
APPROVAL PENDING NOT FOR CONSTRUCTION
JAMES K. SHINNEMAN P.E. 10200392

PREPARED FOR:
KROGER STORE J-979
KROGER MARKETPLACE - MALLORY PARKWAY AND U.S. 31
ENLARGED GRADING PLAN
Part of the NE/4 of Section 15, Township 12 North, Range 4 East, Franklin Township, Johnson County, Indiana

SHEET NO. C3.05
PROJECT NO. W14.0460

LOCATION: H:\2014\W140460\Engineering\design\conset\w140460-C300 grading quad.dwg
LAYOUT: C3.05
DATE/TIME: February 12, 2015 - 7:31am
PLOTTED BY: schoeffb

KROGER MARKETPLACE
FFE = 747.2
BFE = 743
GFA = 123,602 S.F.

GENERAL GRADING NOTES

1. REFER TO THE INDIANA DEPARTMENT OF TRANSPORTATION (INDOT) STANDARD SPECIFICATIONS, LATEST EDITION, FOR BASIC MATERIALS AND CONSTRUCTION METHODS. THE SECTIONS BELOW FOR VARIOUS ITEMS ARE TO CLARIFY THE INTENT OF THE REQUIREMENTS FOR THIS PROJECT. PLEASE NOTE THAT OTHER SECTIONS OF THE INDOT STANDARD SPECIFICATIONS MAY ALSO BE APPLICABLE.
2. FILL MATERIAL SHALL CONSIST OF EARTH OBTAINED FROM CUT AREAS, BORROW PITS OR OTHER APPROVED SOURCES. EARTH SHALL BE FREE FROM ORGANIC MATTER AND OTHER DELETERIOUS SUBSTANCES AND LARGE ROCKS. THE FILL MATERIAL SHALL BE PLACED IN LAYERS NOT TO EXCEED SIX INCHES FOLLOWING COMPACTION, PROPER MOISTURE CONTENT OF FILL MATERIAL WILL BE SUCH TO ACHIEVE SPECIFIED COMPACTION DENSITY. ALL FILL BENEATH PAVED AREAS, FLOOR SLABS AND FUTURE BUILDINGS SHALL BE COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY PER ASTM D-1557. FIELD COMPACTING TEST SHALL BE RUN ON EACH LIFT, IN FILL SECTIONS, AND THE REQUIRED COMPACTION ON EACH LIFT SHALL BE IN ACCORDANCE WITH INDOT SECTION 211.
3. MAXIMUM LAWN SLOPE IS 3:1.
4. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES TO LOCATE MAINS, CONDUITS, SERVICE LINES, ETC. IN THE AFFECTED CONSTRUCTION AREA. EXISTING UTILITY STRUCTURES ARE SHOWN HERE IN ACCORDANCE WITH AVAILABLE INFORMATION. THE LOCATION AND PROTECTION OF UTILITY STRUCTURES, THEIR SUPPORT AND MAINTENANCE DURING CONSTRUCTION (IN COOPERATION WITH APPLICABLE UTILITY COMPANY) IS THE EXPRESSED RESPONSIBILITY OF THE CONTRACTOR.
5. ALL SPOT ELEVATIONS ARE TO FINISHED GRADE.
6. COMPACTED "B" BORROW BACK FILL REQ'D. OVER ALL UTILITIES IN PAVED AREAS.
7. ALL GRADES AT BOUNDARY SHALL MEET EXISTING.
8. ANY PART OF SANITARY OR STORM SEWER TRENCHES RUNNING UNDER OR WITHIN 5' OF PAVEMENT TO BE BACKFILLED WITH GRANULAR MATERIAL.
9. ALL CONSTRUCTION ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH O.S.H.A. STANDARDS FOR WORKER SAFETY.
10. THE CONTRACTOR SHALL CONFIRM ALL EARTHWORK QUANTITIES PRIOR TO THE START OF CONSTRUCTION. IF AN EXCESS OR SHORTAGE OF EARTH IS ENCOUNTERED, THE CONTRACTOR SHALL CONFIRM WITH THE OWNER AND ENGINEER THE REQUIREMENTS FOR STOCKPILING, REMOVAL OR IMPORTING OF EARTH.
11. PROVIDE POSITIVE DRAINAGE WITHOUT PONDING IN ALL AREAS AFTER INSTALLATION. CONTRACTOR TO TEST FOR AND CORRECT ANY PONDING CONDITIONS. ANY AREAS THAT HOLD WATER MORE THAN 1/8" DEEP SHALL BE CUT OUT AND CORRECTED TO POSITIVE DRAINAGE AT NO COST TO THE OWNER/ DEVELOPER/ OR ENGINEER.
12. VERTICAL CURVES, WITH A MINIMUM LENGTH OF 50', SHALL BE USED WHERE POSSIBLE BETWEEN VERTICAL CHANGES IN DIRECTION (SLOPE) TO ALLOW FOR POSITIVE DRAINAGE AND SMOOTH TRANSITIONS.
13. CONTRACTOR TO INSTALL CONCRETE CRADLES WHEN THE VERTICAL SEPARATION (AS MEASURED FROM THE EXTERIOR OF THE PIPES) BETWEEN SANITARY SEWER FACILITIES, WATER MAIN, AND STORM SEWERS IS 18" OR LESS.
14. ALL HDPE PIPE SHALL BE DUAL WALLED, HANCOR HQ, ADS N-12 PIPE OR APPROVED EQUAL
15. ALL FITTINGS AND ACCESSORIES INCLUDING BUT NOT LIMITED TO END CAPS, CLEANOUTS, REDUCERS, ETC., SHALL BE OF HDPE MATERIAL COMPARABLE WITH STORAGE PIPES
16. PROVIDE BACKFILL WITH A MINIMUM OF 4" BEDDING MATERIAL OF #8 AGGREGATE COMPACTED IN 8" LIFTS TO 95% MAXIMUM DRY DENSITY
17. VERIFY EXISTING STORM INVERT ELEVATIONS PRIOR TO STARTING NEW STORM SEWER CONNECTION
18. THE SITE DOES NOT LIE IN A SPECIAL FLOOD HAZARD AREA AS ESTABLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY - NATIONAL FLOOD INSURANCE PROGRAM, WHEN PLOTTED BY SCALE ON FLOOD INSURANCE RATE MAP #18081C0227 D, DATED AUGUST 2, 2007.

LEGEND

FH	EXIST. FIRE HYDRANT
WM	EXIST. WATER METER/VALVE
	EXIST. SIGN
	EXIST. MONITOR WELL
PKF	EXIST. IRON PIN & OR PK (SET/FOUND)
GM	EXIST. GAS METER
	EXIST. GAS VALVE
	EXIST. STORM INLET
	EXIST. STORM/SAN./TELE. MANHOLE
EM	EXIST. ELECTRIC METER
	EXIST. POWER POLE/POWER POLE w/ LIGHT
GA	EXIST. GUY ANCHOR
T.Ped.	EXIST. TELEPHONE PEDESTAL
AC	HVAC UNIT
CO	CLEANOUT
MB	MAILBOX
	LIGHT POLE
BOL	EXIST. BOLLARD
	EXIST. SANITARY SEWER LINE
	EXIST. STORM SEWER LINE
892	EXIST. CONTOURS
	CONCRETE END SECTION (C.E.S.)
GP	GATE POST
	TRANSFORMER
	RIGHT-OF-WAY LINE
	PROPOSED SANITARY SEWER LINE
	PROPOSED STORM SEWER LINE
STM	PROPOSED HDPE ROOF DRAIN
	PROPOSED PIPE BOLLARD
	PROPOSED MANHOLE (MH)
892	PROPOSED CONTOURS
894.50	PROPOSED ELEVATION
	DRAINAGE FLOW ARROW
	EXISTING TREE LINE
	PROPOSED DIRECTIONAL SIGN
F.F.E.	FINISH FLOOR ELEVATION
TC	TOP OF (MANHOLE / INLET) CASTING
INV	INVERT ELEVATION
RCP	REINFORCED CONCRETE PIPE
CMP	CORRUGATED METAL PIPE
PVC	POLYVINYL CHLORIDE PIPE
HDPE	HIGH DENSITY POLYETHYLENE
	FLOW LINE
STR.	STRUCTURE
M.E.G. OR M.E.	MATCH EXISTING GRADE
TOW OR TW	TOP OF WALL
SSD	SUB-SURFACE DRAINAGE
TOC	TOP OF CURB
GUT	GUTTER
W	WATER LINE
G	GAS LINE
OHU	OVERHEAD UTILITY LINE
T	TELEPHONE LINE
E	ELECTRIC LINE
TBM	TEMPORARY BENCHMARK
XX	PARKING COUNT
	EMERGENCY FLOOD ROUTE

PLAN CERTIFICATE NOTE:

ORIGINAL ALTA, TOPOGRAPHY, UTILITIES, STORM SEWERS, AND ALL OTHER EXISTING CONDITIONS ITEMS WERE PREPARED BY BANNING ENGINEERING.

FINAL DRAWINGS FOR THE KROGER SITE WERE PREPARED BY WEIHE ENGINEERS, INC. AND JAMES K. SHINNEMAN. FINAL CONSTRUCTION PLANS ARE THOSE PLANS CONTAINING A FINAL REVISION DATE AFTER 02/12/2015. WEIHE ENGINEERS, INC. AND JAMES K. SHINNEMAN ACCEPT RESPONSIBILITY ONLY FOR THE KROGER SITE IMPROVEMENTS RELATED TO THE ENGINEERING WORK SHOWN ON THESE PLANS.

Know what's below. Call before you dig.
Within Indiana Call 811 or 800-382-5544
24 Hours a Day, 7 Days a Week.
PER INDIANA STATE LAW IC 8-1-26, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

SCALE: 1" = 20
0 10 20 40

10505 N. College Avenue
Indianapolis, Indiana 46280
weihe.net
317 846 - 6611
800 452 - 6408
317 843 - 0546 fax
ALLAN H. WEIHE, P.E., L.S. - FOUNDER

WEIHE ENGINEERS
Land Surveying | Civil Engineering
Landscape Architecture

REVISIONS AND ISSUES	DATE	BY
SUBMITTED FOR INITIAL REVIEW	02.12.2015	BJS

PROJECT NO.: W14.0460
DWG NAME: w14046-C300 grading quad.dwg
DESIGNED BY: RJWRAM
DRAWN BY: RJWRAM
CHECKED BY: JKS
DATE: 02.12.2015

JAMES K. SHINNEMAN
REGISTERED
LANDSCAPE ARCHITECT
NO. 10200392
STATE OF INDIANA
PROFESSIONAL ENGINEER
NOT VALID UNLESS PRINTED

JAMES K. SHINNEMAN P.E. 10200392

PREPARED FOR:
KROGER STORE J-979

ENLARGED GRADING PLAN

KROGER MARKETPLACE - MALLORY PARKWAY AND U.S. 31
Part of the NE¼ of Section 15, Township 12 North, Range 4 East, Franklin Township, Johnson County, Indiana

SHEET NO.
C3.06
PROJECT NO.
W14.0460

MALLORY PKWY

LOCATION: I:\Projects\2014\W14046\Engineering\design\conset\w140460 - C300 grading quad.dwg
LAYOUT: C3.06
DATE/TIME: February 12, 2015 - 7:31am
PLOTTED BY: schoettg