

SITE CONSTRUCTION PLANS FOR IN FRANKLIN MORTON, LLC

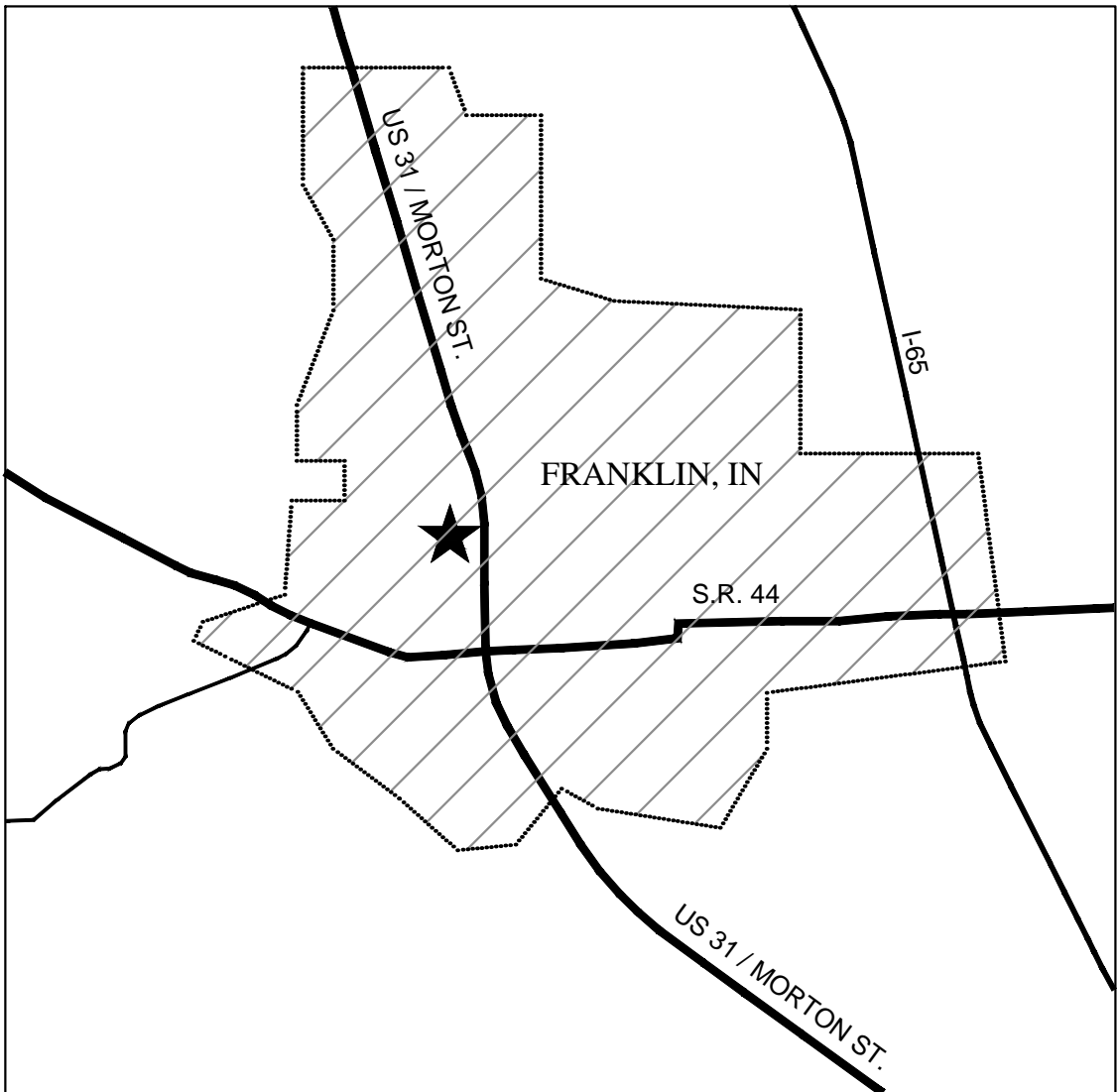
XXX NORTH MORTON STREET (US 31) FRANKLIN, IN 46131

PLANS PREPARED FOR

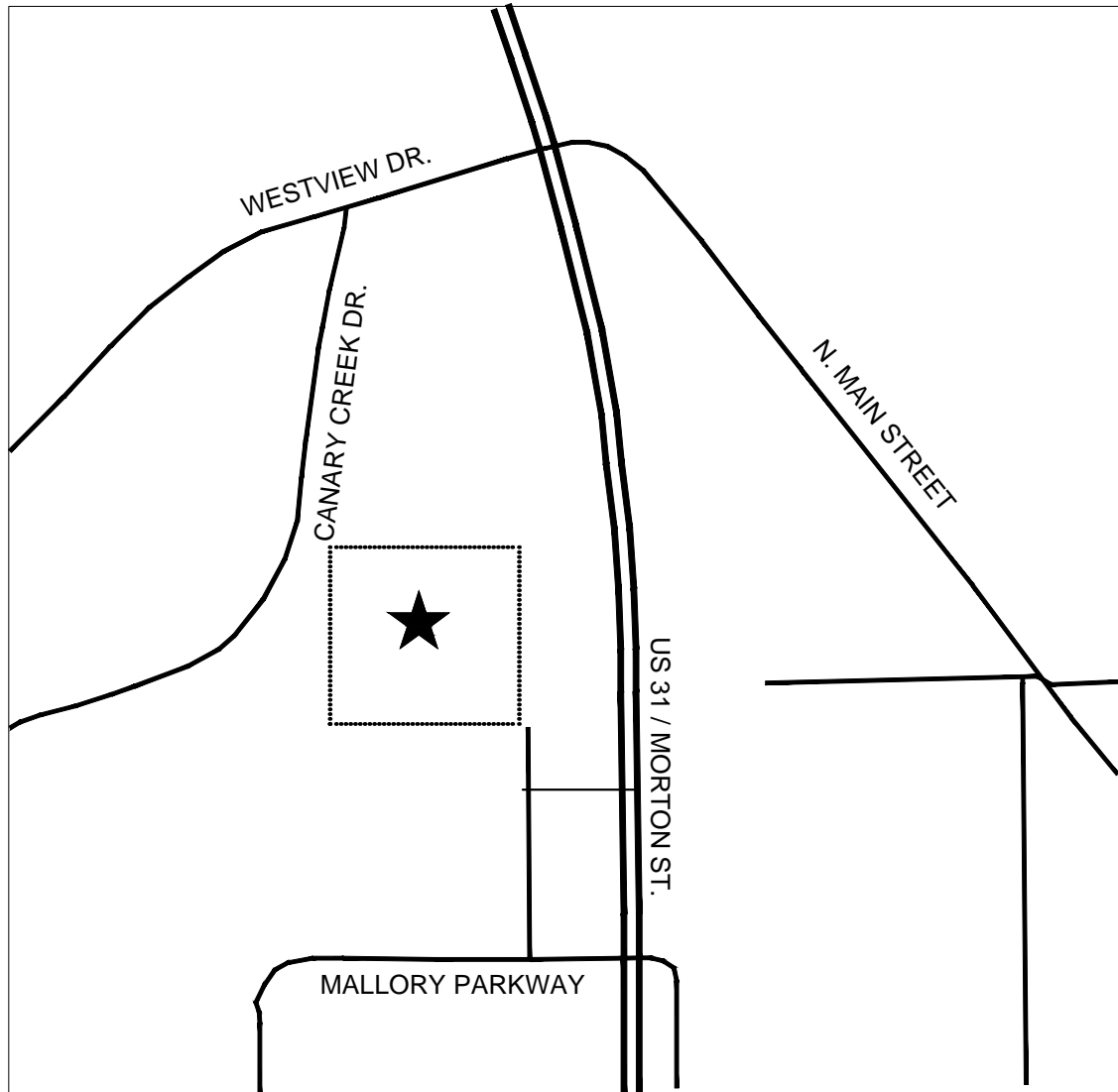
IN FRANKLIN MORTON, LLC
550 SOUTH MAIN STREET, SUITE 300
GREENVILLE, SC 29601
TELEPHONE: (864) 263-5439
CONTACT PERSON: COLBY PRICE
EMAIL: CPRICE@REALTYLINKDEV.COM

PLANS PREPARED BY

WEIHE ENGINEERS, INC.
10505 N. COLLEGE AVE.
INDIANAPOLIS, INDIANA 46280
TELEPHONE: (317) 846-6611
FAX: (317) 843-0546
CONTACT PERSON: BRAD SCHOEFF
EMAIL: SCHOEFFB@WEIHE.NET



★ PROJECT LOCATION
AREA MAP



★ PROJECT LOCATION
LOCATION MAP

GENERAL NOTES

- 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.
- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES IN THE VICINITY OF THE CONSTRUCTION AREA PRIOR TO STARTING CONSTRUCTION.
- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY AND COORDINATE CONSTRUCTION WITH ALL RESPECTIVE UTILITIES.
- ALL QUANTITIES GIVEN ON THESE PRINTS, VERBALLY OR IN THE SCOPE OF WORK SECTION ARE ESTIMATES AND SHALL BE CONFIRMED BY THE BIDDING CONTRACTORS.
- 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.
- IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER AND CONTRACTOR TO MAINTAIN QUALITY CONTROL THROUGHOUT THIS PROJECT.
- TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL STANDARDS.
- THE ENGINEER AND/OR OWNER DISCLAIM ANY ROLE IN THE CONSTRUCTION MEANS AND METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.
- INDIANA STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS LATEST EDITION TO BE USED WITH THESE PLANS.
- ANY FIELD TILES ENCOUNTERED DURING EXCAVATION SHALL BE REPAIRED AND CONNECTED TO NEW STORM SEWERS AND POSITIVE DRAINAGE PRESERVED.
- IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER THAT ALL LANDSCAPE REQUIREMENTS ARE MET AND CONFORM TO APPLICABLE LOCAL STANDARDS.
- THE SITE DOES LIE IN A SPECIAL FLOOD HAZARD AREA "X" 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.
- BEARINGS, DIMENSIONS AND EASEMENTS ARE SHOWN FOR REFERENCE ONLY. SEE RECORD SURVEYS & PLAT FOR EXACT INFORMATION.
- THIS SITE DOES NOT CONTAIN ANY WETLANDS AS SHOWN ON THE U.S. DEPARTMENT OF THE INTERIOR FISH AND WILDLIFE SERVICE; ONLINE MAPPER TOOL, NATIONAL WETLANDS INVENTORY MAP DATED 2014.

CITY OF FRANKLIN STANDARD NOTES

- OWNER OR CONTRACTOR WILL SCHEDULE AND ATTEND A PRE-CONSTRUCTION CONFERENCE. CONTACT THE CITY OF FRANKLIN ENGINEERING AND PLANNING DEPARTMENTS PRIOR TO ANY CONSTRUCTION ON THE SITE BEING STARTED TO SCHEDULE A MEETING TIME AND PLACE. THE INSPECTING ENGINEER WILL BE ASSIGNED AT THIS MEETING. CONTRACTOR ATTENDANCE IS MANDATORY.
- THE DESIGN & CONSTRUCTION SHALL COMPLY WITH THE CURRENT CITY OF FRANKLIN STORMWATER DESIGN & CONSTRUCTION SPECIFICATIONS AND STANDARD CONSTRUCTION DETAILS. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT.
- THESE PLANS COMPLY WITH ALL ADA REQUIREMENTS.

LAND DESCRIPTION

SURVEYED LEGAL DESCRIPTION

ORIGINAL SURVEYED DESCRIPTION

A PART OF THE NORTHEAST QUARTER OF SECTION 15, TOWNSHIP 12 NORTH, RANGE 4 EAST OF THE SECOND PRINCIPAL MERIDIAN, CITY OF FRANKLIN, JOHNSON COUNTY, INDIANA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF SAID QUARTER PROCEED THENCE SOUTH 00 DEGREES 11 MINUTES 50 SECONDS EAST ALONG THE EAST LINE OF SAID QUARTER 766.97 FEET TO THE NORTH LINE OF THE LANDS OF THE NATIONAL BANK OF GREENWOOD AS DESCRIBED IN DEED BOOK 245, PAGE 193 IN THE OFFICE OF THE RECORDER OF JOHNSON COUNTY; PROCEED THENCE ALONG THE NORTH LINE OF SAID BANK LANDS SOUTH 88 DEGREES 00 MINUTES 40 SECONDS WEST 317.73 FEET TO THE WEST LINE OF SAID BANK LANDS, AND THE POINT OF BEGINNING; THENCE SOUTH 05 DEGREES 27 MINUTES 00 SECONDS EAST ALONG SAID WEST LINE 200.35 FEET TO THE NORTHWEST CORNER OF THE LANDS OF CAROLYN ROGERS AS DESCRIBED IN INSTRUMENT NUMBER 2013003799 IN SAID RECORDER'S OFFICE, MARKED BY A REBAR WITH CAP STAMPED ESW LS20200016" (HEREAFTER REFERRED TO AS ESW REBAR) THENCE NORTH 88 DEGREES 00 MINUTES 40 SECONDS, EAST ALONG THE NORTH LINE OF SAID ROGERS LANDS 157.10 FEET TO THE NORTHWEST CORNER OF LOT 1 OF PRESNELL/MORTON STREET MINOR SUBDIVISION AS RECORDED IN PLAT CABINET "C, SLIDE 640 IN SAID RECORDER'S OFFICE, MARKED BY A REBAR WITH ILLEGIBLE CAP; THENCE SOUTH 00 DEGREES 49 MINUTES 24 SECONDS EAST ALONG THE WEST LINE OF SAID LOT 150.50 FEET TO THE SOUTHWEST CORNER OF SAID LOT; THENCE SOUTH 00 DEGREES 20 MINUTES 13 SECONDS WEST 200.98 TO A REBAR WITH A CAP STAMPED "BANNING ENG FIRM #0060" (HEREAFTER REFERRED TO AS BANNING REBAR); THENCE NORTH 89 DEGREES 39 MINUTES 20 SECONDS WEST 726.19 FEET TO THE EAST LINE OF THE LANDS OF CO CINEMAS, LLC AS DESCRIBED IN INSTRUMENT NUMBER 2006033562 IN SAID RECORDER'S OFFICE, MARKED BY A BANNING REBAR; THENCE NORTH 00 DEGREES 20 MINUTES 45 SECONDS EAST ALONG SAID EAST LINE AND ITS EXTENSION 551.78 FEET; THENCE NORTH 88 DEGREES 00 MINUTES 40 SECONDS EAST 543.34 FEET TO THE WEST LINE OF FRANKLIN GW HOLDINGS, LLC AS DESCRIBED IN INSTRUMENT NUMBER 2008013737 IN SAID RECORDER'S OFFICE; THENCE SOUTH 05 DEGREES 27 MINUTES 00 SECONDS EAST ALONG SAID WEST LINE 29.67 FEET TO THE POINT OF BEGINNING, AND CONTAINING 8.534 ACRES OF LAND, MORE OR LESS.

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 CREEK; 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 TUB 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.

OPERATING AUTHORITIES

CITY OF FRANKLIN PLANNING
70 E. MONROE STREET
FRANKLIN, IN 46131
SENIOR PLANNER: JOANNA MYERS
BUILDING OFFICIAL: DAVID PARSLLEY
P. 317.736.3631

CITY OF FRANKLIN ENGINEERING
70 E. MONROE STREET
FRANKLIN, IN 46131
CITY ENGINEER: TRAVIS UNDERHILL
BUILDING OFFICIAL: DAVID PARSLLEY
P. 317.736.3631

CITY OF FRANKLIN BUILDING
70 E. MONROE STREET
FRANKLIN, IN 46131
BUILDING OFFICIAL: DAVID PARSLLEY
P. 317.736.3631

CITY OF FRANKLIN - SANITARY DEPT.
796 S. STATE STREET
FRANKLIN, IN 46131
SUPERINTENDENT: RICK LITTLETON
TEL: 317.736.3640

CITY OF FRANKLIN - STORMWATER DEPT.
2851 N. MORTON STREET
FRANKLIN, IN 46131
MSA COORDINATOR: RICHARD DEWITT
TEL: 888.736.3640 X1280

CITY OF FRANKLIN - FIRE DEPT.
1800 HORNBURG LANE
FRANKLIN, IN 46131
TEL: 317.736.3650

CITY OF FRANKLIN - PUBLIC WORKS DEPT.
796 S. STATE STREET
FRANKLIN, IN 46131
TEL: 317.736.3640

JOHNSON COUNTY SURVEYOR
COURTHOUSE ANNEX BUILDING
86 W. COURT STREET
FRANKLIN, IN 46131
TEL: 317.7736.3933

JOHNSON COUNTY HIGHWAY DEPT
1051 HOSPITAL ROAD
FRANKLIN, IN 46131
TEL: 317.346.4630

JOHNSON COUNTY SOIL & WATER
550 E. JEFFERSON STREET
FRANKLIN, IN 46131
TEL: 317.346.9540

JOHNSON COUNTY HEALTH DEPARTMENT
COURTHOUSE ANNEX BUILDING
86 W. COURT STREET
FRANKLIN, IN 46131
TEL: 317.346.4365

DUKE ENERGY
TROY BURTON
TEL: 317.736.2017

INDIANA AMERICAN WATER
TROY BRYANT
TEL: 317.881.5385 X2

COMCAST
SCOTT CRIPE
TEL: 812.355.7814
VECTREN GAS
DAVID SHERFERY
317.776.5585

EMBARO
LARRY TALBOT
TEL: 317.736.4863

DEPARTMENT OF PUBLIC WORKS
70 EAST MONROE STREET
FRANKLIN, IN 46131
(317) 736-3631

INDIANA STATE DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS LATEST EDITION TO BE USED
WITH THESE PLANS.

PLAN CERTIFICATE NOTE:

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

FINAL DRAWINGS FOR THE IN FRANKLIN MORTON, LLC SITE WERE PREPARED BY WEIHE ENGINEERS, INC. AND STEVEN SCOTT RUCKER. FINAL CONSTRUCTION PLANS ARE THOSE PLANS CONTAINING A FINAL REVISION DATE AFTER 03/17/2016. WEIHE ENGINEERS, INC. AND STEVEN SCOTT RUCKER ACCEPT RESPONSIBILITY ONLY FOR THE IN FRANKLIN MORTON, LLC SITE IMPROVEMENTS RELATED TO THE ENGINEERING WORK SHOWN ON THESE PLANS.

IN MORTON FRANKLIN	
Sheet Number	Sheet Title
C001	TITLE SHEET
1 of 4	ALTA ACSM LAND TITLE SURVEY
2 of 4	ALTA ACSM LAND TITLE SURVEY
3 of 4	ALTA ACSM LAND TITLE SURVEY
4 of 4	ALTA ACSM LAND TITLE SURVEY
C100	STORMWATER POLLUTION PREVENTION PLAN PHASE I
C101	STORMWATER POLLUTION PREVENTION PLAN PHASE II
C102	STORMWATER POLLUTION PREVENTION PLAN PHASE III
C103	STORMWATER POLLUTION PREVENTION PLAN SPECIFICATIONS
C104	STORMWATER POLLUTION PREVENTION PLAN DETAILS
C105	STORMWATER POLLUTION PREVENTION PLAN DETAILS
C200	SITE PLAN
C201	SITE DETAILS
C202	SITE DETAILS
C203	DIMENSION PLAN
C204	LIGHTING PLAN
C205	LIGHTING PLAN
C300	GRADING PLAN
C301	ENLARGED GRADING PLAN
C302	ENLARGED GRADING PLAN
C303	DRAINAGE AND FLOOD ROUTING PLAN
C400	PAVING PLAN
C500	SANITARY SEWER PLAN AND PROFILE
C501	SANITARY SEWER DETAILS
C600	STORM SEWER PLAN AND PROFILE
C601	STORM SEWER PLAN AND PROFILE
C602	STORM SEWER DETAILS
C603	STORM SEWER DETAILS
C800	UTILITY PLAN
C801	UTILITY DETAILS
C802	UTILITY DETAILS
L100	LANDSCAPE PLAN LOT 1
L101	LANDSCAPE PLAN LOT 2
L200	LANDSCAPE DETAILS



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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.: W15.0351
DWG NAME: W150351-C001-016.dwg
DESIGNED BY: B. RAM
DRAWN BY: B. RAM
CHECKED BY: B. RAM
DATE: 03.17.2016

REVISIONS AND ISSUES
CITY SUBMITTAL

DATE: 03.17.2016 BY: B. RAM

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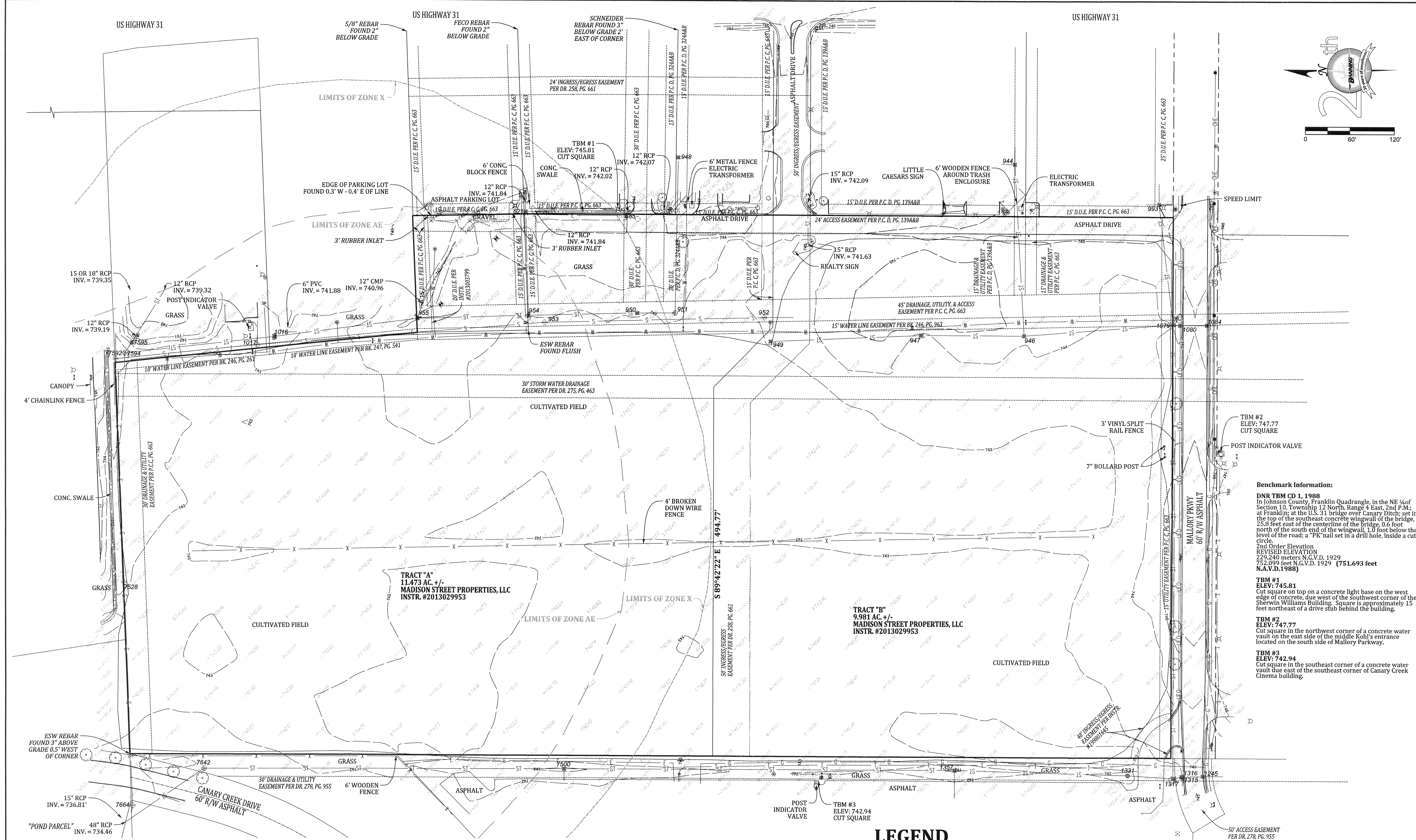
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DATE: 03.17.2016 BY: B. RAM



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 Creek, 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
729.240 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

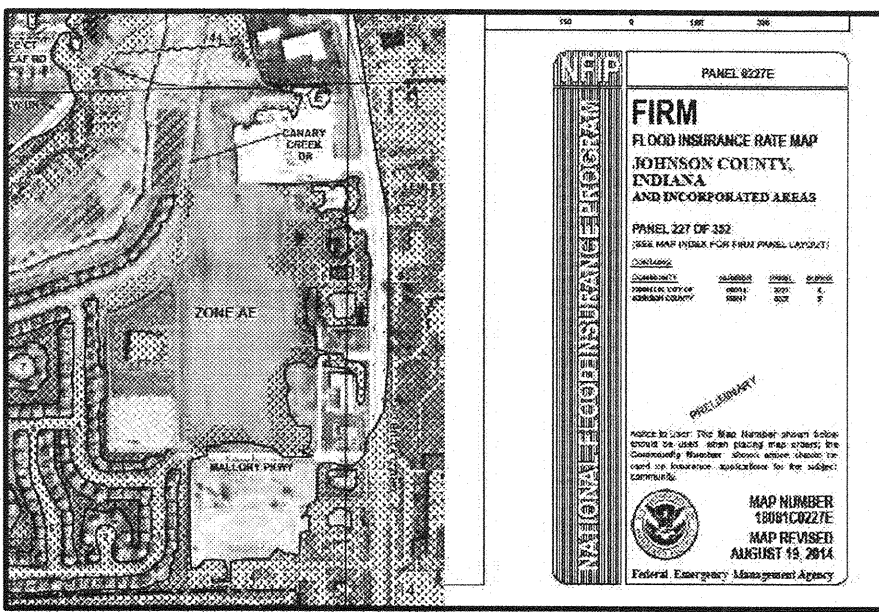
ELEV: 742.94

Cut square in the southeast corner of a concrete water vault due east of the southeast corner of Canary Creek Cinema building.

LEGEND

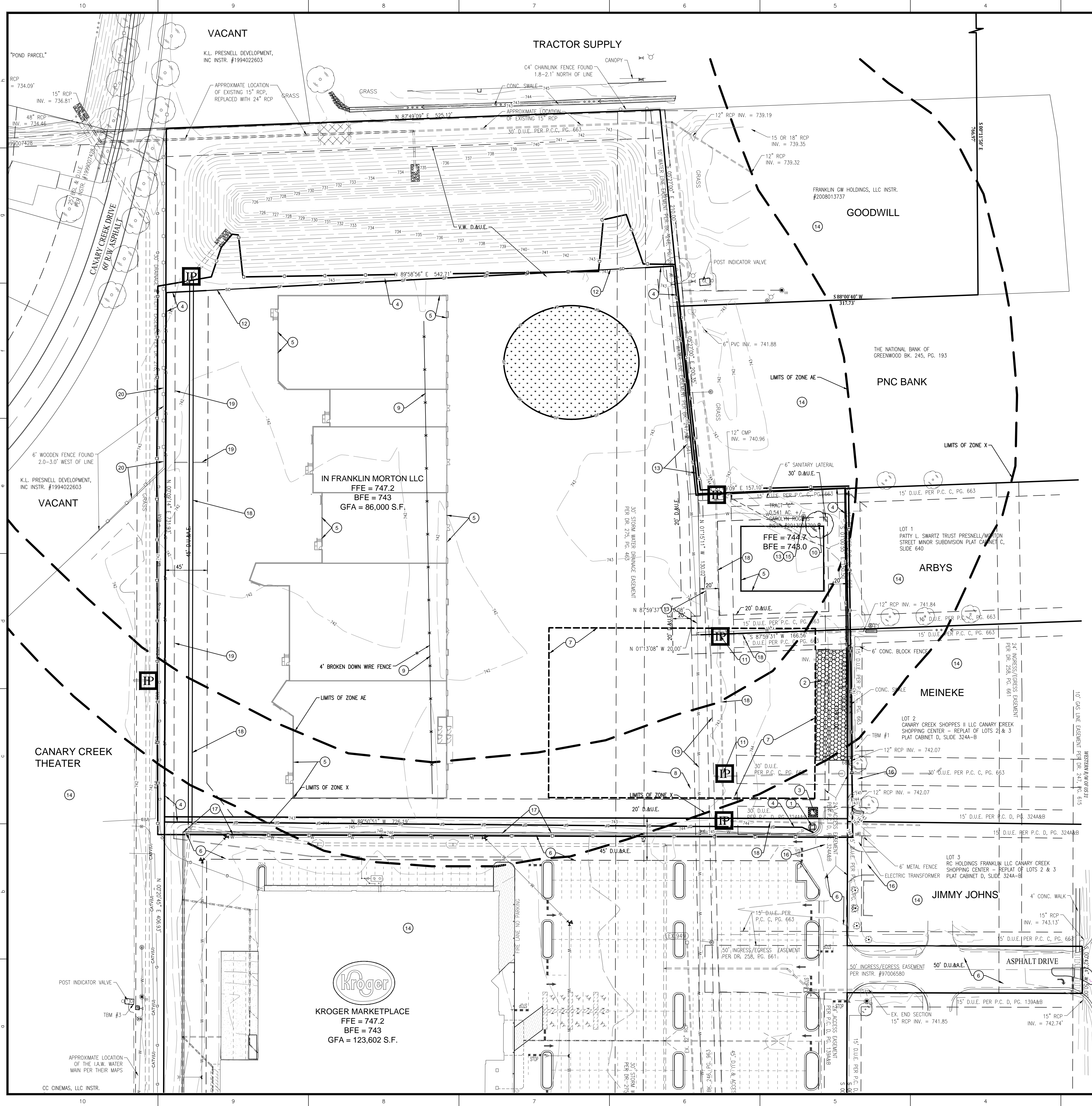
—	BUILDING LINE	○	BUSH
— X —	FENCE LINE	■	CABLE TV BOX
—	EDGE OF CULTIVATION	■	ELECTRIC SPICE BOX
— O —	OVERHEAD ELECTRIC LINE	⊕	FIRE HYDRANT
— E —	UNDERGROUND ELECTRIC LINE	⊕	GAS VALVE
— U —	UNDERGROUND FIBER OPTIC	⊕	GUY WIRE ANCHOR POINT
— G —	UNDERGROUND GAS LINE	⊕	MAILBOX
— S —	SANITARY SEWER PIPE	⊕	POST
— ST —	STORM SEWER PIPE	⊕	POWERPOLE
— T —	UNDERGROUND TELEPHONE LINE	⊕	LIGHT POLE
— W —	UNDERGROUND WATER LINE	⊕	SANITARY CLEANOUT
—	CONCRETE	⊕	SANITARY SEWER MANHOLE
—	RIPRAP	⊕	DRAINAGE AND UTILITY EASEMENT

STRUCTURE INFORMATION		INVERT ELEVATIONS						PIPE SIZES						NOTES						
TYPE	NUMBER	VC	LEV	N	NE	E	SE	S	SW	W	NW	N	NE	E	SE	S	SW	W	NW	
STORM INLET	425	740.26			740.46			740.16			740.16			12" RCP	12" RCP	12" RCP				STRUCTURE IS FULL OF WATER
STORM INLET	426	740.25						740.15			740.15			12" RCP	12" RCP	12" RCP				
STORM INLET	427	740.11	740.08			740.51			740.51			740.21		12" RCP	12" RCP	12" RCP				
STORM INLET	428	740.29	739.21					739.79			739.79			12" RCP	12" RCP	12" RCP				NO CASTING
STORM INLET	429	740.67	739.97									742.95		12" RCP	12" RCP	12" RCP				
STORM INLET	430	740.15						740.10						12" RCP	12" RCP	12" RCP				
STORM INLET	431	740.18	742.08											12" RCP	12" RCP	12" RCP				NO CASTING. EASTERN P-FI RECORDED. COULD NOT OBTAIN P-FI
STORM INLET	432	742.59	740.14		740.10									12" RCP	12" RCP	12" RCP				
STORM INLET	433	740.68	739.38									739.28		12" RCP	12" RCP	12" RCP				
STORM INLET	434	740.64	741.34		741.39									12" RCP	12" RCP	12" RCP				NO CASTING. EASTERN P-FI RECORDED. COULD NOT OBTAIN P-FI
STORM INLET	435	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	436	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	437	740.64	740.99											12" RCP	12" RCP	12" RCP				NO CASTING. EASTERN P-FI RECORDED. COULD NOT OBTAIN P-FI
STORM INLET	438	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	439	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	440	740.64	740.99											12" RCP	12" RCP	12" RCP				NO CASTING. EASTERN P-FI RECORDED. COULD NOT OBTAIN P-FI
STORM INLET	441	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	442	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	443	740.64	740.99											12" RCP	12" RCP	12" RCP				NO CASTING. EASTERN P-FI RECORDED. COULD NOT OBTAIN P-FI
STORM INLET	444	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	445	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	446	740.64	740.99											12" RCP	12" RCP	12" RCP				NO CASTING. EASTERN P-FI RECORDED. COULD NOT OBTAIN P-FI
STORM INLET	447	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	448	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	449	740.64	740.99											12" RCP	12" RCP	12" RCP				NO CASTING. EASTERN P-FI RECORDED. COULD NOT OBTAIN P-FI
STORM INLET	450	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	451	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	452	740.64	740.99											12" RCP	12" RCP	12" RCP				NO CASTING. EASTERN P-FI RECORDED. COULD NOT OBTAIN P-FI
STORM INLET	453	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	454	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	455	740.64	740.99											12" RCP	12" RCP	12" RCP				NO CASTING. EASTERN P-FI RECORDED. COULD NOT OBTAIN P-FI
STORM INLET	456	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	457	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	458	740.64	740.99											12" RCP	12" RCP	12" RCP				NO CASTING. EASTERN P-FI RECORDED. COULD NOT OBTAIN P-FI
STORM INLET	459	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	460	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	461	740.64	740.99											12" RCP	12" RCP	12" RCP				NO CASTING. EASTERN P-FI RECORDED. COULD NOT OBTAIN P-FI
STORM INLET	462	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	463	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	464	740.64	740.99											12" RCP	12" RCP	12" RCP				NO CASTING. EASTERN P-FI RECORDED. COULD NOT OBTAIN P-FI
STORM INLET	465	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	466	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	467	740.64	740.99											12" RCP	12" RCP	12" RCP				NO CASTING. EASTERN P-FI RECORDED. COULD NOT OBTAIN P-FI
STORM INLET	468	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	469	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	470	740.64	740.99											12" RCP	12" RCP	12" RCP				NO CASTING. EASTERN P-FI RECORDED. COULD NOT OBTAIN P-FI
STORM INLET	471	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	472	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	473	740.64	740.99											12" RCP	12" RCP	12" RCP				NO CASTING. EASTERN P-FI RECORDED. COULD NOT OBTAIN P-FI
STORM INLET	474	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	475	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	476	740.64	740.99											12" RCP	12" RCP	12" RCP				NO CASTING. EASTERN P-FI RECORDED. COULD NOT OBTAIN P-FI
STORM INLET	477	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	478	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	479	740.64	740.99											12" RCP	12" RCP	12" RCP				NO CASTING. EASTERN P-FI RECORDED. COULD NOT OBTAIN P-FI
STORM INLET	480	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	481	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	482	740.64	740.99											12" RCP	12" RCP	12" RCP				NO CASTING. EASTERN P-FI RECORDED. COULD NOT OBTAIN P-FI
STORM INLET	483	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	484	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	485	740.64	740.99											12" RCP	12" RCP	12" RCP				NO CASTING. EASTERN P-FI RECORDED. COULD NOT OBTAIN P-FI
STORM INLET	486	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	487	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	488	740.64	740.99											12" RCP	12" RCP	12" RCP				NO CASTING. EASTERN P-FI RECORDED. COULD NOT OBTAIN P-FI
STORM INLET	489	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	490	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	491	740.64	740.99											12" RCP	12" RCP	12" RCP				NO CASTING. EASTERN P-FI RECORDED. COULD NOT OBTAIN P-FI
STORM INLET	492	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	493	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	494	740.64	740.99											12" RCP	12" RCP	12" RCP				NO CASTING. EASTERN P-FI RECORDED. COULD NOT OBTAIN P-FI
STORM INLET	495	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	496	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	497	740.64	740.99											12" RCP	12" RCP	12" RCP				NO CASTING. EASTERN P-FI RECORDED. COULD NOT OBTAIN P-FI
STORM INLET	498	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	499	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	500	740.64	740.99											12" RCP	12" RCP	12" RCP				NO CASTING. EASTERN P-FI RECORDED. COULD NOT OBTAIN P-FI
STORM INLET	501	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	502	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	503	740.64	740.99											12" RCP	12" RCP	12" RCP				NO CASTING. EASTERN P-FI RECORDED. COULD NOT OBTAIN P-FI
STORM INLET	504	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	505	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	506	740.64	740.99											12" RCP	12" RCP	12" RCP				NO CASTING. EASTERN P-FI RECORDED. COULD NOT OBTAIN P-FI
STORM INLET	507	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	508	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	509	740.64	740.99											12" RCP	12" RCP	12" RCP				NO CASTING. EASTERN P-FI RECORDED. COULD NOT OBTAIN P-FI
STORM INLET	510	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	511	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	512	740.64	740.99											12" RCP	12" RCP	12" RCP				NO CASTING. EASTERN P-FI RECORDED. COULD NOT OBTAIN P-FI
STORM INLET	513	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	514	740.64	740.99											12" RCP	12" RCP	12" RCP				
STORM INLET	51																			



As used herein, the word "certify" shall mean an expression of the Consultant's professional opinion to the best of its information, knowledge and belief, and does not constitute a warranty or guarantee by the Consultant.

LOCATION: H:\2015\W150351\Engineering\Design\Consent\W150351-C100.swpapp.dwg
DATE/TIME: March 17, 2016 - 11:56am
PLOTTER: b7i engines



SITE PREPARATION / SWPPP PHASE I NOTES

- INSTALL PERMIT POSTING AREA. 4" PVC TUBE WITH END CAPS ATTACHED TO PROJECT CONSTRUCTION SIGN TO CONTAIN APPROVED CONSTRUCTION DRAWINGS AND PERMITS FOR INSPECTORS.
- INSTALL CONSTRUCTION ENTRANCE. REFER TO DETAIL ON SHEET C105
- INSTALL CONCRETE WASHOUT. REFER TO DETAIL ON SHEET C105
- INSTALL SILT FENCE. REFER TO DETAIL ON SHEET C105
- LIMITS OF PROPOSED BUILDING
- EXISTING ASPHALT DRIVES TO BE KEPT CLEAN AT ALL TIMES
- CONSTRUCTION STAGING AREA
- CONSTRUCTION DUMPSTER, FUELING AREA, FUEL TANK AND PORT-O-LET TO BE LOCATED AND NOTED ONSITE BY CONTRACTOR
- REMOVE EXISTING FENCE LINE WHERE SHOWN
- REMOVE EXISTING TREES
- EXISTING FRAME AND GRATE TO BE ADJUSTED TO THE PROPOSED PAVEMENT GRADES
- COIR LOG
- UTILITIES EXIST WITHIN THE LIMITS OF DISTURBANCE. UTILITIES SHOWN WERE LOCATED BY THE UTILITY COMPANY AND A PRIVATE LOCATE SERVICE. ADDITIONAL UTILITIES MAY EXIST WITHIN THIS CORRIDOR THAT COULD NOT BE TRACED AND LOCATED. PROCEED WITH CAUTION.
- CONTRACTOR TO NOTIFY THE ADJONER(S) AND CITY ENGINEER 1 WEEK PRIOR TO COMMENCING WITH WORK IN CLOSE PROXIMITY OF THE EXISTING BUILDINGS.
- EXISTING WATER SERVICE TO ARBY'S TO REMAIN
- MAINTAIN ACCESS TO ADJONERS AT ALL TIMES
- SAWCUT AND REMOVE EXISTING CURB
- EXISTING STORM SEWER TO REMAIN
- EXISTING SANITARY SEWER TO REMAIN
- FENCE MAY NEED REMOVED AND REPLACED FOR INSTALLATION OF UTILITIES. REPLACE WITH LIKE SIZE AND MATERIALS.

SWPPP 1 LEGEND

IP - INLET PROTECTION - USE SUBSURFACE INLET PROTECTION WITH OVERFLOW CAPABILITY (DANDY SAC)

- CONSTRUCTION ENTRANCE

- STAGING AREA

- POSTING AREA - 4" PVC TUBE WITH END CAPS ATTACHED TO PROJECT CONSTRUCTION SIGN TO CONTAIN APPROVED CONSTRUCTION DRAWINGS AND PERMITS FOR INSPECTORS.

- INSTALL COIR LOGS AS SHOWN. CONTRACTOR TO ADD ADDITIONAL MEASURES AS CONSTRUCTION PHASING AND SITE CONDITIONS DICTATE

- CONCRETE WASHOUT

- STOCKPILE AREA (TEMPORARY SEEDING REQUIRED)

- SILT FENCE

- LIMITS OF DISTURBANCE

LEGEND

	= EXIST. FIRE HYDRANT
	= EXIST. WATER METER/VALVE
	= EXIST. SIGN
	= EXIST. MONITOR WELL
	= EXIST. IRON PIN & OR PK (SET/FOUND)
	= EXIST. GAS METER
	= EXIST. GAS VALVE
	= EXIST. STORM INLET
	= EXIST. STORMMAN/TELE. MANHOLE
	= EXIST. ELECTRIC METER
	= EXIST. POWER POLE/POWER POLE w/ LIGHT
	= EXIST. GUY ANCHOR
	= EXIST. TELEPHONE PEDESTAL
	= HVAC UNIT
	= CLEANOUT
	= MAILBOX
	= LIGHT POLE
	= EXIST. BOLLARD
	= EXIST. SANITARY SEWER LINE
	= EXIST. STORM SEWER LINE
	= EXIST. CONTOURS
	= CONCRETE END SECTION (C.E.S.)
	= TRANSFORMER
	= RIGHT-OF-WAY LINE
	= DRAINAGE FLOW ARROW
	= EXISTING TREE LINE
	= FINISH FLOOR ELEVATION
	= TOP OF (MANHOLE / INLET) CASTING
	= INVERT ELEVATION
	= REINFORCED CONCRETE PIPE
	= CORRUGATED METAL PIPE
	= POLYVINYL CHLORIDE PIPE
	= HIGH DENSITY POLYETHYLENE
	= FLOW LINE
	= STRUCTURE
	= TOP OF WALL
	= SUB-SURFACE DRAINAGE
	= TOP OF CURB
	= GUTTER
	= WATER LINE
	= GAS LINE
	= OVERHEAD UTILITY LINE
	= TELEPHONE LINE
	= ELECTRIC LINE
	= TEMPORARY BENCHMARK

GENERAL NOTES

- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY WITH THE OWNER DURING BIDDING AND DURING CONSTRUCTION ACTIVITIES ALL ITEMS TO BE REMOVED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE ANY MATERIALS AND/OR STRUCTURES NOT LOCATED ON THIS SURVEY FOR THE INSTALLATION OF THE NEW WORK.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL EXISTING UTILITIES PERTAINING TO THEIR PHASE OF WORK, AND TO VERIFY WHICH UTILITIES WILL BE REMOVED BY UTILITY COMPANY. ANY AND ALL UTILITIES NOT REMOVED BY THE UTILITY COMPANY SHALL BE REMOVED BY THE CONTRACTOR.
- UTILITIES ARE SHOWN TO BE APPROXIMATE AND SHALL BE RELOCATED AND/OR CAPPED AND ABANDONED BEFORE CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
- ALL DEMOLITION MATERIAL AND SALVAGEABLE MATERIAL IS THE PROPERTY OF THE DEMOLITION CONTRACTOR AND SHALL BE PROPERLY DISPOSED OF OFF THE SITE.
- SLABS ON GRADE MUST BE REMOVED COMPLETELY AND TAKEN OFF THE SITE.
- ALL UTILITIES MUST REMAIN ACTIVE FOR AREA TENANTS THAT ARE REMAINING. NO UTILITY SERVICE SHALL BE INTERRUPTED DURING THE CONSTRUCTION PROCESS.
- BEARINGS, DIMENSIONS, AND EASEMENTS ARE SHOWN FOR REFERENCE ONLY. SEE RECORD SURVEYS AND PLATS FOR EXACT INFORMATION.
- IF THERE ARE ANY QUESTIONS CONCERNING THIS DEMOLITION PLAN, PLEASE CONTACT THE ENGINEER BEFORE CONTINUING WORK.

CONTACT PERSON FOR EROSION CONTROL & SEDIMENT PRACTICES

WEIHE ENGINEERS, INC.
10505 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46268
TELEPHONE: (317) 846-6611
FAX: (317) 843-0546
EMAIL: PARKER@WEIHE.NET
CONTACT PERSON: FRED PARKER, CPESC

EXISTING AREAS

TOTAL SITE	= 8.68 AC.
DISTURBED	= 9.24 AC.
PERVIOUS	= 9.20 AC.
IMPERVIOUS	= 0.04 AC.

EROSION CONTROL NOTES

- ALL DISTURBED AREAS SHALL BE SODED OR SEEDED, EXCEPT BUILDING PAD AND LANDSCAPE BEDS. SEE LANDSCAPE PLANS FOR LOCATION OF LANDSCAPE BEDS.
- INSTALL SILT FENCE ALONG ALL DOWNSTREAM SLOPES. SILT FENCE TO FOLLOW CONTOUR.
- THERE SHALL BE NO DIRT, DEBRIS OR STORAGE OF MATERIAL IN THE STREET.
- CONTRACTOR TO COORDINATE THE SWPPP PROGRAM WITH SPECIFICATION SECTION 312500.
- ANY EXISTING TREE(S) THAT MAY REQUIRE REMOVAL BUT ARE NOT SHOWN ON THE PLAN AS BEING REMOVED MAY BE DONE SO, AS LONG AS THE TREE(S) ARE RELOCATED TO AN APPROVED ALTERNATIVE LOCATION ON SITE.

PLAN CERTIFICATE NOTE:

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

FINAL DRAWINGS FOR THE IN FRANKLIN MORTON, LLC SITE WERE PREPARED BY WEIHE ENGINEERS, INC. AND STEVEN SCOTT RUCKER. FINAL CONSTRUCTION PLANS ARE THOSE PLANS CONTAINING A FINAL REVISION DATE AFTER 03/17/2016. WEIHE ENGINEERS, INC. AND STEVEN SCOTT RUCKER ACCEPT RESPONSIBILITY ONLY FOR THE IN FRANKLIN MORTON, LLC SITE IMPROVEMENTS RELATED TO THE ENGINEERING WORK SHOWN ON THESE PLANS.

SCALE: 1" = 50'

0 25 50 100

811

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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.: W15.0351	DATE: 03/17/2016	BY: BS
DWG NAME: W150351-C100.swpapp.dwg	DESIGNER: BUSRAM	DRAWN BY: RAM
CHECKED BY: BUS	DATE: 03/17/2016	

REVISIONS AND ISSUES

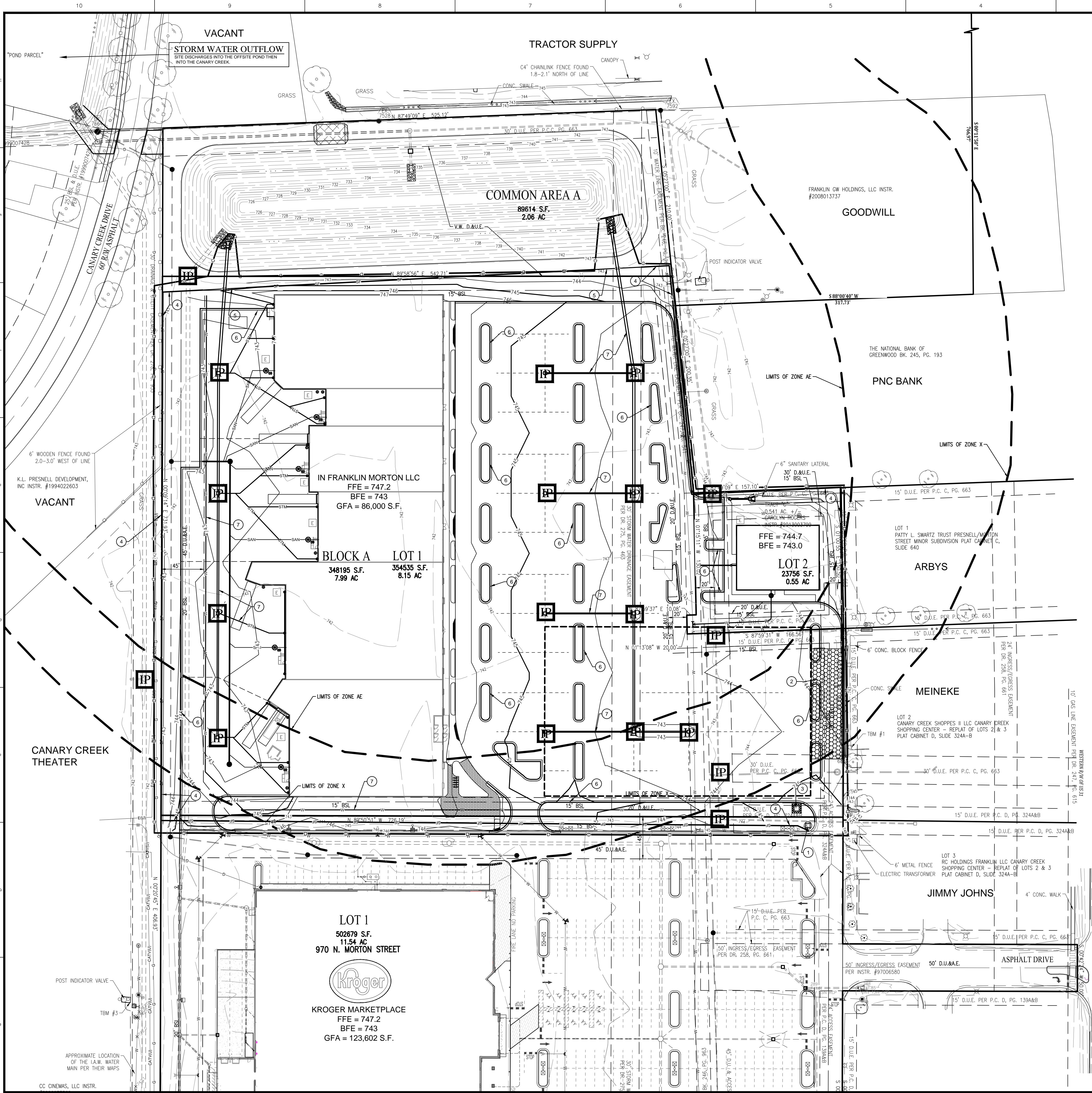
CITY SUBMITTAL	
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STEVEN SCOTT RUCKER
REGISTERED PROFESSIONAL ENGINEER
PE # 300279
NOTARY PUBLIC
STATE OF INDIANA

PREPARED FOR:
IN FRANKLIN MORTON, LLC
xxx NORTH MORTON STREET, FRANKLIN, IN 46131
STORMWATER POLLUTION PREVENTION PLAN PHASE I
Part of the NEI of Section 15, Township 12 North, Range 4 East, Franklin Township, Johnson County, Indiana

SHEET NO.
C100
PROJECT NO.
W15.0351

LOCATION: 11/2015 (W150351) Engineering (design) (sheet) W150351-C101 msp22.dwg
DATE/TIME: March 17, 2016 11:57am
PLOTTER: HP DesignJet T1100ps



SWPPP PHASE II NOTES

1. MAINTAIN PERMIT POSTING AREA. 4" PVC TUBE WITH END CAPS ATTACHED TO PROJECT CONSTRUCTION SIGN TO CONTAIN APPROVED CONSTRUCTION DRAWINGS AND PERMITS FOR INSPECTORS.
2. MAINTAIN CONSTRUCTION ENTRANCE. REFER TO DETAIL ON SHEET C105
3. MAINTAIN CONCRETE WASHOUT. REFER TO DETAIL ON SHEET C105
4. MAINTAIN SILT FENCE. REFER TO DETAIL ON SHEET C105
5. MAINTAIN COIR LOG
6. INSTALL CURBS ONCE FINAL GRADE HAS BEEN ESTABLISHED
7. INSTALL WATER, STORM AND SANITARY SEWERS

GENERAL NOTES

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY WITH THE OWNER DURING BIDDING AND DURING CONSTRUCTION ACTIVITIES ALL ITEMS TO BE REMOVED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE ANY MATERIALS AND/OR STRUCTURES NOT LOCATED ON THIS SURVEY FOR THE INSTALLATION OF THE NEW WORK.
 2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL EXISTING UTILITIES PERTAINING TO THEIR PHASE OF WORK, AND TO VERIFY WHICH UTILITIES WILL BE REMOVED BY UTILITY COMPANY. ANY AND ALL UTILITIES NOT REMOVED BY THE UTILITY COMPANY SHALL BE REMOVED BY THE CONTRACTOR.
 3. UTILITIES ARE SHOWN TO BE APPROXIMATE AND SHALL BE RELOCATED AND/OR CAPPED AND ABANDONED BEFORE CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
 4. ALL DEMOLITION MATERIAL AND SALVAGEABLE MATERIAL IS THE PROPERTY OF THE DEMOLITION CONTRACTOR AND SHALL BE PROPERLY DISPOSED OF OFF THE SITE.
 5. SLABS ON GRADE MUST BE REMOVED COMPLETELY AND TAKEN OFF THE SITE.
 6. ALL UTILITIES MUST REMAIN ACTIVE FOR AREA TENANTS THAT ARE REMAINING. NO UTILITY SERVICE SHALL BE INTERRUPTED DURING THE CONSTRUCTION PROCESS.
 7. BEARINGS, DIMENSIONS, AND EASEMENTS ARE SHOWN FOR REFERENCE ONLY. SEE RECORD SURVEYS AND PLATS FOR EXACT INFORMATION.
 8. IF THERE ARE ANY QUESTIONS CONCERNING THIS DEMOLITION PLAN, PLEASE CONTACT THE ENGINEER BEFORE CONTINUING WORK.
- WEIHE ENGINEERS, INC.
15055 NORTH COLLEGE AVENUE
INDIANAPOLIS, INDIANA 46280
(317) 846-6611 OR
TOLL FREE 1-800-452-6408

EROSION CONTROL NOTES

1. ALL DISTURBED AREAS SHALL BE SOODED OR SEEDED, EXCEPT BUILDING PAD AND LANDSCAPE BEDS. SEE LANDSCAPE PLANS FOR LOCATION OF LANDSCAPE BEDS.
2. INSTALL SILT FENCE ALONG ALL DOWNSTREAM SLOPES. SILT FENCE TO FOLLOW CONTOUR.
3. THERE SHALL BE NO DIRT, DEBRIS OR STORAGE OF MATERIAL IN THE STREET.
4. CONTRACTOR TO COORDINATE THE SWPPP PROGRAM WITH SPECIFICATION SECTION 31250.
5. ANY EXISTING TREE(S) THAT MAY REQUIRE REMOVAL BUT ARE NOT SHOWN ON THE PLAN AS BEING REMOVED MAY BE DONE SO, AS LONG AS THE TREE(S) ARE RELOCATED TO AN APPROVED ALTERNATIVE LOCATION ON SITE.

CONTACT PERSON FOR EROSION CONTROL & SEDIMENT PRACTICES

WEIHE ENGINEERS, INC.
15055 NORTH COLLEGE AVENUE
INDIANAPOLIS, IN 46268
TELEPHONE: (317) 846-6611
FAX: (317) 843-0546
EMAIL: PARKERF@WEIHE.NET
CONTACT PERSON: FRED PARKER, CPESC

SWPPP II LEGEND

- IP - INLET PROTECTION - USE SUBSURFACE INLET PROTECTION WITH OVERFLOW CAPABILITY (DANDY SAC)
- CONSTRUCTION ENTRANCE
- STAGING AREA
- POSTING AREA - 4" PVC TUBE WITH END CAPS ATTACHED TO PROJECT CONSTRUCTION SIGN TO CONTAIN APPROVED CONSTRUCTION DRAWINGS AND PERMITS FOR INSPECTORS.
- INSTALL COIR LOGS AS SHOWN. CONTRACTOR TO ADD ADDITIONAL MEASURES AS CONSTRUCTION PHASING AND SITE CONDITIONS DICTATE
- CONCRETE WASHOUT
- SILT FENCE
- LIMITS OF DISTURBANCE

LEGEND

- WM - EXIST. FIRE HYDRANT
- WM - EXIST. WATER METER VALVE
- WM - EXIST. SIGN
- WM - EXIST. MONITOR WELL
- WM - EXIST. IRON PIN & OR PK (SET/FOUND)
- WM - EXIST. GAS METER
- WM - EXIST. GAS VALVE
- WM - EXIST. STORM INLET
- WM - EXIST. STORM SANITARY/TELE. MANHOLE
- WM - EXIST. ELECTRIC METER
- WM - EXIST. POWER POLE/POWER POLE w/ LIGHT
- WM - EXIST. GUY ANCHOR
- WM - EXIST. TELEPHONE PEDESTAL
- WM - HVAC UNIT
- WM - CLEANOUT
- WM - MAILBOX
- WM - LIGHT POLE
- WM - EXIST. BOLLARD
- WM - EXIST. SANITARY SEWER LINE
- WM - EXIST. STORM SEWER LINE
- WM - EXIST. CONTOURS
- WM - CONCRETE PAD SECTION (C.E.S.)
- WM - GATE POST
- WM - TRANSFORMER
- WM - RIGHT-OF-WAY LINE
- WM - DRAINAGE FLOW ARROW
- WM - EXISTING TREE LINE
- WM - FINISH FLOOR ELEVATION
- WM - TOP OF (MANHOLE / INLET) CASTING
- WM - INVERT ELEVATION
- WM - RCP
- WM - CORRUGATED METAL PIPE
- WM - POLYVINYL CHLORIDE PIPE
- WM - HIGH DENSITY POLYETHYLENE
- WM - FLOW LINE
- WM - STRUCTURE
- WM - TOP OF WALL
- WM - SUB-SURFACE DRAINAGE
- WM - TOP OF CURB
- WM - GUTTER
- WM - WATER LINE
- WM - GAS LINE
- WM - OVERHEAD UTILITY LINE
- WM - TELEPHONE LINE
- WM - ELECTRIC LINE
- WM - TEMPORARY BENCHMARK
- WM - PARKING COUNT

EXISTING AREAS

TOTAL SITE	=	8.68	AC.
DISTURBED	=	9.24	AC.
PERVIOUS	=	9.20	AC.
IMPERVIOUS	=	0.04	AC.

-WARNING-

THIS PLAN TO BE USED FOR EROSION CONTROL PURPOSES ONLY. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED IN THE FIELD BY THE INSPECTOR.

-NOTE-

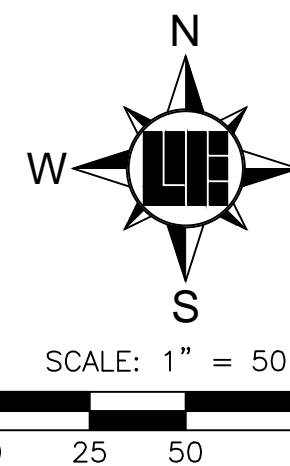
THIS PLAN INDICATES EROSION CONTROL MEASURES REQUIRED AFTER SOIL STRIPPING AND PAD BUILDING HAS TAKEN PLACE. COORDINATE WITH DEVELOPER FOR MEASURES REQUIRED UNTIL PROPERTY TURNED OVER FOR DEVELOPMENT. COORDINATE WITH SOIL CONSERVATION DISTRICT REPRESENTATIVE FOR ANY OTHER MEASURES REQUIRED DUE TO SITE CONDITIONS.



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.



PLAN CERTIFICATE NOTE:

ORIGINAL ALTA, TOPOGRAPHY, UTILITIES, STORM SEWERS, AND ALL OTHER EXISTING CONDITIONS ITEMS WERE PREPARED BY BANNING ENGINEERING.
FINAL DRAWINGS FOR THE IN FRANKLIN MORTON, LLC SITE WERE PREPARED BY WEIHE ENGINEERS, INC. AND STEVEN SCOTT RUCKER. FINAL CONSTRUCTION PLANS ARE THOSE PLANS CONTAINING A FINAL REVISION DATE AFTER 03/17/2016. WEIHE ENGINEERS, INC. AND STEVEN SCOTT RUCKER ACCEPT RESPONSIBILITY ONLY FOR THE IN FRANKLIN MORTON, LLC SITE IMPROVEMENTS RELATED TO THE ENGINEERING WORK SHOWN ON THESE PLANS.

15055 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.: W15.0351
DWO NAME: W150351-C101 msp22.dwg
DESIGNED BY: BUSRAM
DRAWN BY: RAM
CHECKED BY: BUS
DATE: 03/17/2016

DATE: 03/17/2016
BY: BUS

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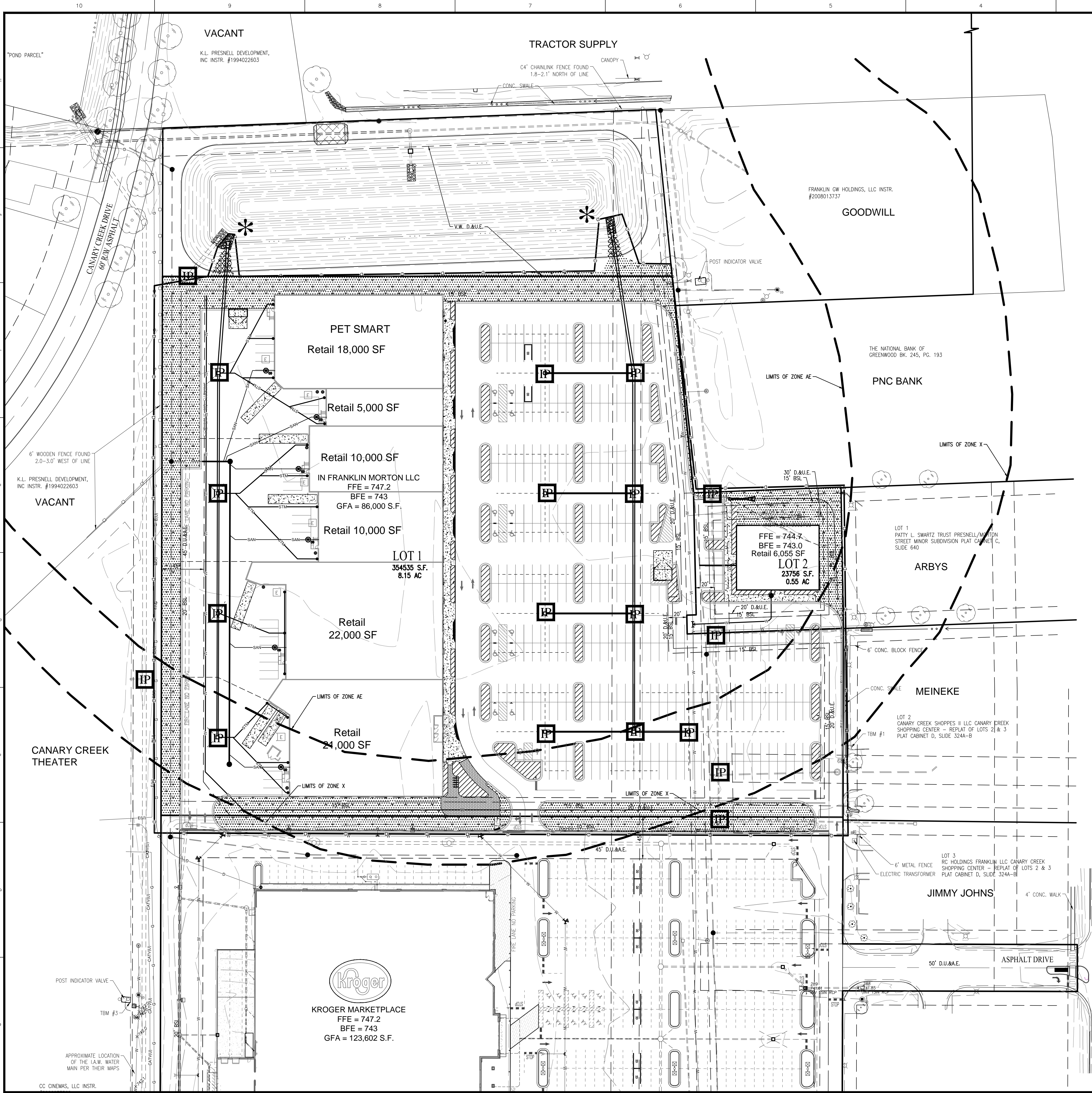
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DATE: 03/17/2016
BY: BUS

LOCATION: H:\2016\W150351\Engineering\Design\Consent\W150351-C102.mxd
DATE/TIME: March 17, 2016 - 11:56am
PLOTTER: BT, engines



EROSION CONTROL SPECIFICATIONS

- THIS PLAN IS DESIGNED AS AN ATTEMPT TO PREVENT ANY AND ALL SEDIMENT FROM LEAVING THE CONSTRUCTION SITE BY WAY OF EROSION. IF EROSION OF SEDIMENT FROM THE SITE IS TAKING PLACE, THE CONTRACTOR AND/OR OWNER SHALL TAKE PREVENTATIVE ACTION IMMEDIATELY. THE ENGINEER SHALL BE CONSULTED IN THE EVENT THIS HAPPENS.
- TEMPORARY SEEDING IS TO BE APPLIED TO ANY DISTURBED AREA THAT WILL REMAIN UNALTERED IN EXCESS OF 15 DAYS.
- PERMANENT SEEDING IS TO BE APPLIED IMMEDIATELY TO AREAS THAT HAVE ACHIEVED FINAL AND FINISHED GRADE.
- PRESERVE EXISTING VEGETATION ON THE SITE WHENEVER AND WHEREVER POSSIBLE TO PREVENT TOPSOIL EROSION.
- ALL SEDIMENT CAPTURING MEASURES SHALL BE IMPLEMENTED PRIOR TO THE DISTURBANCE OF THE CONSTRUCTION AREA. THEY ARE INTENDED TO SERVICE. ALL EROSION CONTROL MEASURES PROPOSED ARE TO BE PROPERLY MAINTAINED TO CONTINUE THEIR EFFECTIVENESS.
- IF GRADING OCCURS DURING THE MONTHS OF DECEMBER, JANUARY OR FEBRUARY DORMANT SEEDING PROCEDURES SHALL BE USED.
- DURING DRY WEATHER, KEEP LAWNS WATERED WITH SPRINKLERS OR OTHER APPROVED METHODS. RESEED ANY AREAS NOT GERMINATING OR DAMAGED AT INTERVALS AS MAY BE REQUIRED ACCORDING TO SEASONAL CONDITION AND/OR CONSTRUCTION ACTIVITY. WATER GRASS AND EXECUTE NECESSARY WEEDING UNTIL FULL STAND OF GRASS HAS BEEN OBTAINED.
- THE IMPLEMENTATION AND MAINTENANCE OF THE EROSION CONTROL IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND/OR OWNER.
- IT SHALL BE THE CONTRACTOR'S AND/OR OWNER'S RESPONSIBILITY TO MINIMIZE SEDIMENTATION FROM ON-SITE CONSTRUCTION ACTIVITIES FROM BEING DEPOSITED ONTO ADJACENT PROPERTIES AND RECEIVING STREAMS/DITCHES IN STRICT COMPLIANCE WITH "RULE 5" (327 IAC 15-5, CONSTRUCTION ACTIVITY STORM WATER RUNOFF CONTROL). IT SHALL ALSO BE THE CONTRACTOR'S AND/OR OWNER'S RESPONSIBILITY TO OBTAIN ANY APPROVALS REQUIRED FROM THE LOCAL AUTHORITY AND TO SUBMIT A COMPLETE NOTICE OF INTENT LETTER TO THE OFFICE OF WATER MANAGEMENT, INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT PRIOR TO ANY CONSTRUCTION ACTIVITY.
- FOR SEASONAL VARIATIONS - SEE SEASONAL SOIL PROTECTION CHART IN THESE PLANS.

LAND DESCRIPTION

SURVEYED LEGAL DESCRIPTION

ORIGINAL SURVEYED DESCRIPTION

A PART OF THE NORTHEAST QUARTER OF SECTION 15, TOWNSHIP 12 NORTH, RANGE 4 EAST OF THE SECOND PRINCIPAL MERIDIAN, CITY OF FRANKLIN, JOHNSON COUNTY, INDIANA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF SAID QUARTER PROCEED THENCE SOUTH 00 DEGREES 11 MINUTES 50 SECONDS EAST ALONG THE EAST LINE OF SAID QUARTER 766.97 FEET TO THE NORTH LINE OF THE LANDS OF THE NATIONAL BANK OF GREENWOOD AS DESCRIBED IN DEED BOOK 245, PAGE 193 IN THE OFFICE OF THE RECORDER OF JOHNSON COUNTY; PROCEED THENCE ALONG THE NORTH LINE OF SAID BANK LANDS SOUTH 88 DEGREES 40 MINUTES 40 SECONDS WEST 317.73 FEET TO THE WEST LINE OF SAID BANK LANDS, AND THE POINT OF BEGINNING; THENCE SOUTH 05 DEGREES 27 MINUTES 00 SECONDS EAST ALONG SAID WEST LINE 200.35 FEET TO THE NORTHWEST CORNER OF THE LANDS OF CAROLYN ROGERS AS DESCRIBED IN INSTRUMENT NUMBER 2013003799 IN SAID RECORDER'S OFFICE, MARKED BY A REBAR WITH CAP STAMPED ESW LS20200016 (HEREAFTER REFERRED TO AS ESW REBAR); THENCE NORTH 88 DEGREES 00 MINUTES 40 SECONDS EAST ALONG THE NORTH LINE OF SAID ROGERS LANDS 157.10 FEET TO THE NORTHWEST CORNER OF LOT 1 OF PRESNELL MORTON STREET MINOR SUBDIVISION AS RECORDED IN PLAT C, SLIDE 640 IN SAID RECORDER'S OFFICE, MARKED BY A REBAR WITH ILLEGIBLE CAP; THENCE SOUTH 00 DEGREES 49 MINUTES 24 SECONDS EAST ALONG THE WEST LINE OF SAID LOT 150.50 FEET TO THE SOUTHWEST CORNER OF SAID LOT; THENCE SOUTH 00 DEGREES 20 MINUTES 13 SECONDS WEST 200.98 TO A REBAR WITH A CAP STAMPED "BANNING ENG FIRM #0001" (HEREAFTER REFERRED TO AS BANNING REBAR); THENCE NORTH 89 DEGREES 39 MINUTES 20 SECONDS WEST 726.19 FEET TO THE EAST LINE OF THE LANDS OF CC CINEMAS, LLC AS DESCRIBED IN INSTRUMENT NUMBER 2008039662 IN SAID RECORDER'S OFFICE, MARKED BY A BANNING REBAR; THENCE NORTH 00 DEGREES 20 MINUTES 45 SECONDS EAST ALONG SAID EAST LINE AND ITS EXTENSION 551.78 FEET; THENCE NORTH 88 DEGREES 00 MINUTES 40 SECONDS EAST 543.34 FEET TO THE WEST LINE OF FRANKLIN GW HOLDINGS, LLC AS DESCRIBED IN INSTRUMENT NUMBER 2008013737 IN SAID RECORDER'S OFFICE; THENCE SOUTH 05 DEGREES 27 MINUTES 00 SECONDS EAST ALONG SAID WEST LINE 29.67 FEET TO THE POINT OF BEGINNING, AND CONTAINING 8.534 ACRES OF LAND, MORE OR LESS.

BENCHMARK INFORMATION

BENCHMARK INFORMATION
DNR TBM CD 1, 1988 IN JOHNSON COUNTY, FRANKLIN QUADRANGLE, IN THE NE 1/4 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 IN FRANKLIN MORTON, LLC SITE WERE PREPARED BY WEIHE ENGINEERS, INC. AND STEVEN SCOTT RUCKER. FINAL CONSTRUCTION PLANS ARE THOSE PLANS CONTAINING A FINAL REVISION DATE AFTER 03/17/2016. WEIHE ENGINEERS, INC. AND STEVEN SCOTT RUCKER ACCEPT RESPONSIBILITY ONLY FOR THE IN FRANKLIN MORTON, LLC SITE IMPROVEMENTS RELATED TO THE ENGINEERING WORK SHOWN ON THESE PLANS.

SWPPP III LEGEND

- INLET PROTECTION - USE SUBSURFACE INLET PROTECTION WITH OVERFLOW CAPABILITY (DANDY SAC)
- PERMANENT/TEMPORARY SEEDING USE PLANTING CHART
- EROSION CONTROL BLANKET - USE S1508N BIO-NET AS SUPPLIED BY NORTH AMERICAN GREEN OR APPROVED EQUAL. AREA MUST ALSO BE SEEDED.
- MULCHED AREA
- LIMITS OF DISTURBANCE (CONSTRUCTION LIMITS)
- SITE DISCHARGE POINT

DISTURBED ACREAGE
= 9.24± AC.

-WARNING-
THIS PLAN TO BE USED FOR EROSION CONTROL PURPOSES ONLY. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED IN THE FIELD BY THE INSPECTOR.

CONTACT PERSON FOR EROSION CONTROL & SEDIMENT PRACTICES

WEIHE ENGINEERS, INC.
10505 N. COLLEGE AVE.
INDIANAPOLIS, IN 46268
TELEPHONE: (317) 846-6611
FAX: (317) 843-0546
EMAIL: PARKERF@WEIHE.NET
CONTACT PERSON: FRED PARKER

EROSION CONTROL NOTES

- ALL DISTURBED AREAS SHALL BE SODDED OR SEEDED, EXCEPT BUILDING PAD AND LANDSCAPE BEDS. SEE LANDSCAPE PLANS FOR LOCATION OF LANDSCAPE BEDS.
- INSTALL SILT FENCE ALONG ALL DOWNSTREAM SLOPES. SILT FENCE TO FOLLOW CONTOUR.
- THERE SHALL BE NO DIRT, DEBRIS OR STORAGE OF MATERIAL IN THE STREET.
- CONTRACTOR TO COORDINATE THE SWPPP PROGRAM WITH SPECIFICATION SECTION 312500.
- THIS PLAN INDICATES EROSION CONTROL MEASURES REQUIRED AFTER SOIL STRIPPING AND PAD BUILDING HAS TAKEN PLACE. COORDINATE WITH DEVELOPER FOR MEASURES REQUIRED UNTIL PROPERTY TURNED OVER FOR DEVELOPMENT. COORDINATE WITH SOIL CONSERVATION DISTRICT REPRESENTATIVE FOR ANY OTHER MEASURES REQUIRED DUE TO SITE CONDITIONS.



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811 or 800-382-5544
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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

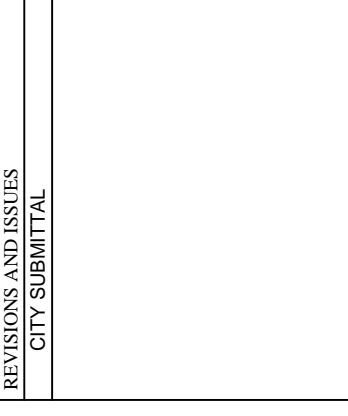
WEIHE
ENGINEERS

Land Surveying | Civil Engineering
Landscape Architecture

PROJECT NO.: W15.0351
DWG NAME: W150351-C102 swppp3.dwg
DESIGNER: BSJ
DRAWN BY: BSJ
CHECKED BY: BSJ
DATE: 03/17/2016

DATE: 03/17/2016
BY: BSJ

REVISIONS AND ISSUES
CITY SUBMITTAL



STEVEN SCOTT RUCKER
REGISTERED PROFESSIONAL ENGINEER
PE-1300279
STATE OF INDIANA
NOTES: PROFESSIONAL ENGINEER

STEVEN SCOTT RUCKER P.E. 1300279

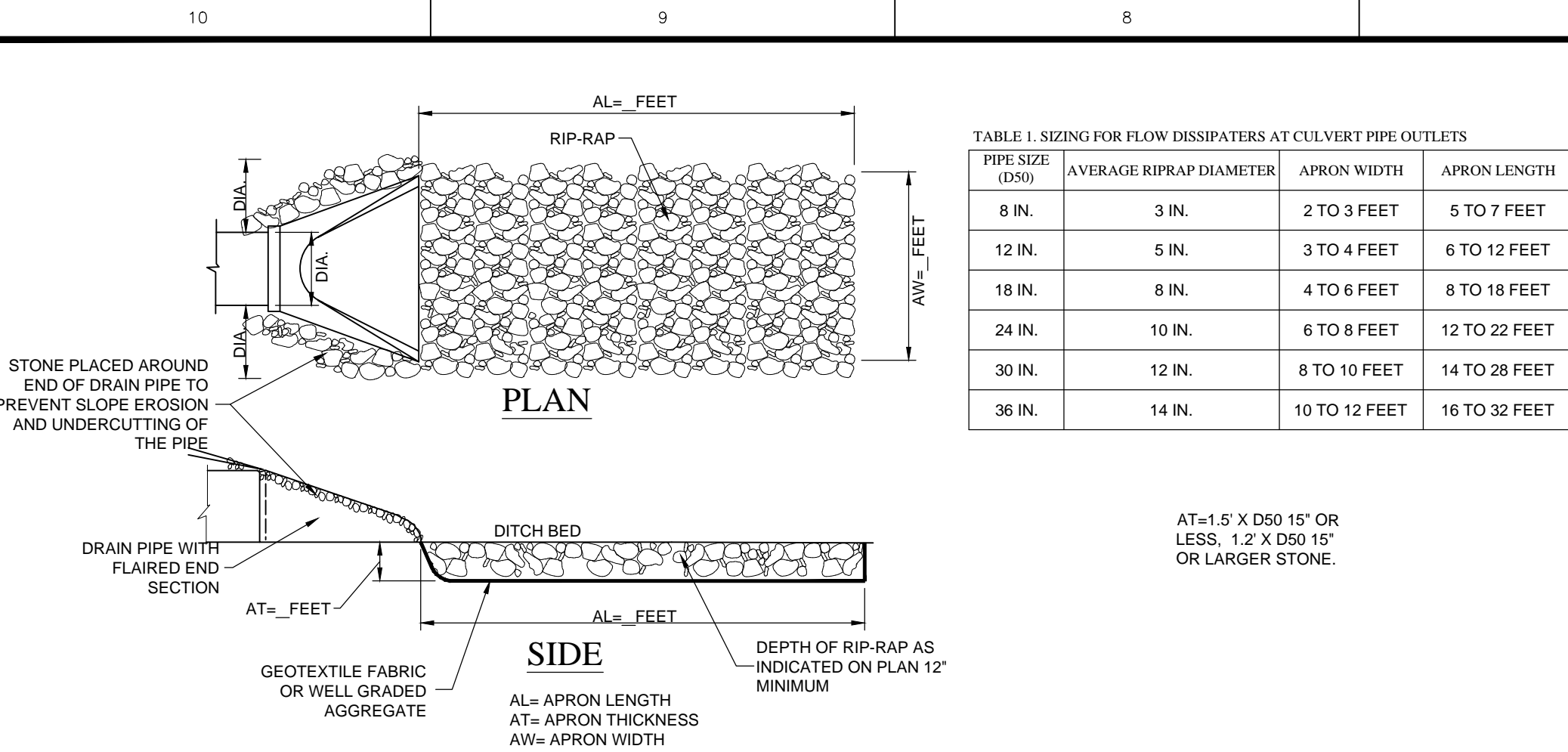
PREPARED FOR:
IN FRANKLIN MORTON, LLC
xxx NORTH MORTON STREET, FRANKLIN, IN 46131
STORMWATER POLLUTION PREVENTION PLAN PHASE III
Part of the NE 1/4 of Section 15, Township 12 North, Range 4 East, Franklin Township, Johnson County, Indiana

SHEET NO.

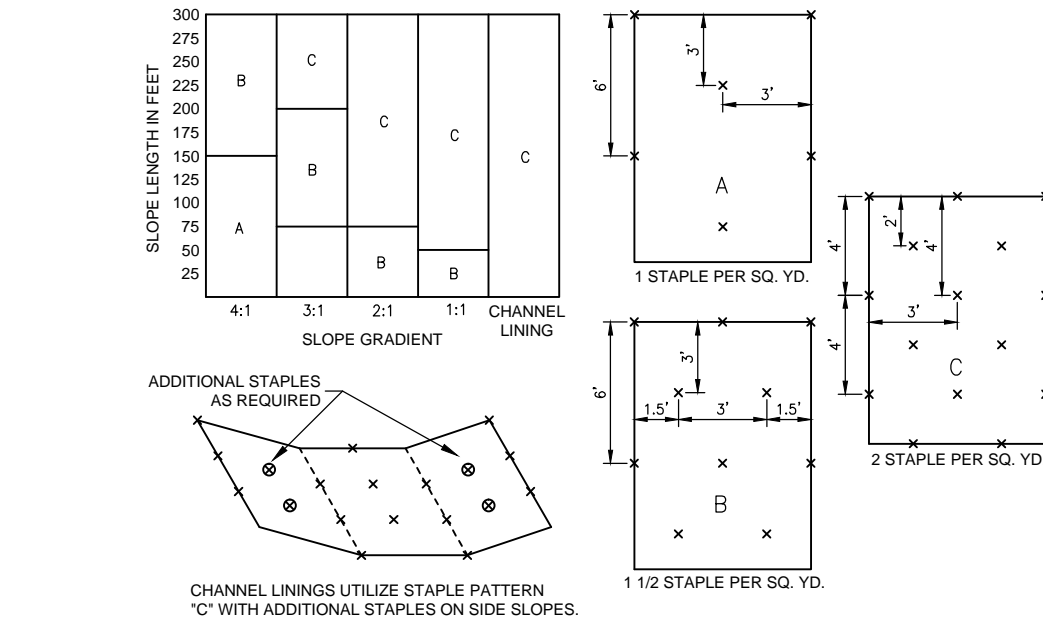
C102

PROJECT NO.

W15.0351



PIPE SIZE (D50)	AVERAGE RIPRAP DIAMETER	APRON WIDTH	APRON LENGTH
8 IN.	3 IN.	2 TO 3 FEET	5 TO 7 FEET
12 IN.	5 IN.	3 TO 4 FEET	6 TO 12 FEET
18 IN.	8 IN.	4 TO 6 FEET	8 TO 18 FEET
24 IN.	10 IN.	6 TO 8 FEET	12 TO 22 FEET
30 IN.	12 IN.	8 TO 10 FEET	14 TO 28 FEET
36 IN.	14 IN.	10 TO 12 FEET	16 TO 32 FEET



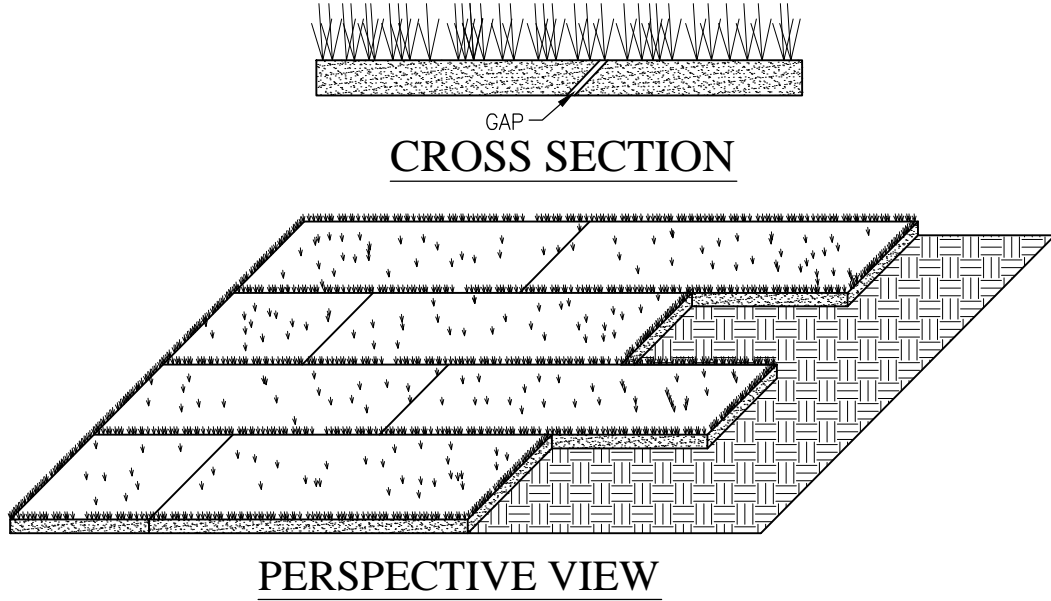
EROSION CONTROL BLANKET STAPLE PATTERN (NO SCALE)

GENERAL STAPLE RECOMMENDATIONS
STAPLE PATTERNS APPLY TO ALL NORTH AMERICAN GREEN EROSION CONTROL BLANKETS. STAPLE PATTERNS MAY VARY DEPENDING UPON SOIL TYPE AND AVERAGE ANNUAL RAINFALL.

AT SLOPE LENGTHS GREATER THAN 300 FEET OR WHERE DRAINAGE OVER LARGE AREAS IS DIRECTED ONTO THE BLANKETS, STAPLE PATTERN 'C' SHOULD BE UTILIZED.

CHANNEL LININGS REQUIRED A 2' MINIMUM OVERLAP AT LONGITUDINAL JOINTS. SIDESLOPES SHALL REQUIRE A 6' MINIMUM OVERLAP. WHERE OVERLAPS OCCUR, THE UPSTREAM BLANKET SHALL OVERLAP THE DOWNSTREAM.

IF OTHER THAN NORTH AMERICAN GREEN EROSION CONTROL BLANKETS ARE INSTALLED FOLLOW THE INSTALLATION DIRECTIONS RECOMMENDED BY THAT PRODUCTS COMPANY.



SPECIFICATIONS
SITE PREPARATION
_ GRADE THE SITE TO ACHIEVE POSITIVE DRAINAGE.
_ PREPARE A SMOOTH, FIRM SOIL SURFACE AND APPLY SOIL AMENDMENTS. IRRIGATION IRRIGATE AS NEEDED TO ENSURE ROOTING OF SOD.
MATERIALS
_ SOIL AMENDMENTS - SELECT MATERIALS AND RATES AS DETERMINED BY A SOIL TEST (CONTACT YOUR COUNTY SOIL AND WATER CONSERVATION DISTRICT OR COOPERATIVE EXTENSION OFFICE FOR ASSISTANCE AND SOIL INFORMATION, INCLUDING AVAILABLE SOIL TESTING SERVICES.) OR 400 TO 600 POUNDS OF 12-12-12 ANALYSIS FERTILIZER, OR EQUIVALENT.
_ SOD - SELECT A HIGH QUALITY, HEALTHY, VIGOROUS VARIETY WELL ADAPTED TO THE REGION AND COMPATIBLE WITH THE INTENDED USE.

INSTALLATION
SOD SHOULD NOT BE INSTALLED DURING HOT WEATHER, ON DRY SOIL, FROZEN SOIL, COMPACTED CLAY, LOOSE SAND OR GRAVELLY SUBSTRATE SOILS, OR PESTICIDE TREATED SOIL. THE IDEAL TIME TO LAY SOD IS MAY 1 TO JUNE 1 OR SEPTEMBER 1 TO SEPTEMBER 30, ALTHOUGH IT CAN BE INSTALLED AS EARLY AS MARCH 15 IF AVAILABLE OR JUNE 1 TO SEPTEMBER 1 IF IRRIGATED.
SITE PREPARATION
1. APPLY TOPSOIL IF EXISTING SOIL CONDITIONS ARE UNSUITABLE FOR ESTABLISHING VEGETATION.
2. GRADE THE SITE TO ACHIEVE POSITIVE DRAINAGE AND CREATE A SMOOTH, FIRM SOIL SURFACE.
3. WHERE APPLICABLE, USE A CHISEL PLOW, DISK, HARROW, OR RAKE TO BREAK UP COMPACTED SOILS AND CREATE A FAVORABLE ROOTING DEPTH OF SIX TO EIGHT INCHES.

SOD BED PREPARATION
1. TEST SOIL TO DETERMINE PH AND NUTRIENT LEVELS.
2. IF SOIL PH IS TOO ACIDIC FOR THE GRASS SOD TO BE INSTALLED, APPLY LIME ACCORDING TO SOIL TEST RESULTS OR AT THE RATE RECOMMENDED BY THE SOD SUPPLIER.
3. APPLY FERTILIZER AS RECOMMENDED BY THE SOIL TEST. IF TESTING WAS NOT DONE, APPLY 400 TO 600 POUNDS PER ACRE OF 12-12-12 ANALYSIS FERTILIZER, OR EQUIVALENT.
4. WORK THE SOIL AMENDMENTS INTO THE UPPER TWO TO FOUR INCHES OF SOIL WITH A DISK OR RAKE OPERATED ACROSS THE SLOPE.
5. RAKE OR HARROW THE AREA TO ACHIEVE A SMOOTH FINAL GRADE AND THEN ROLL OR CULPACK THE SOIL SURFACE TO CREATE A FIRM SURFACE ON WHICH TO LAY THE SOD.
LAYING THE SOD
1. INSTALL SOD WITHIN THIRTY-SIX HOURS OF ITS CUTTING.
2. STORE THE SOD IN A SHADED LOCATION DURING INSTALLATION.
3. IMMEDIATELY BEFORE LAYING THE SOD, RAKE THE SOIL SURFACE TO BREAK ANY CRUST. (IF THE WEATHER IS HOT, LIGHTLY IRRIGATE THE SOIL SURFACE PRIOR TO LAYING THE SOD.)
4. LAY SOD STRIPS IN A BRICK-LIKE PATTERN.
5. BUTT ALL JOINTS TIGHTLY AGAINST EACH OTHER (DO NOT STRETCH OR OVERLAP THEM), USING A KNIFE OR MASON'S TROWEL TO TRIM AND FIT SOD INTO IRREGULARLY SHAPED AREAS.
6. ROLL THE SOD LIGHTLY AFTER INSTALLATION TO ENSURE FIRM CONTACT BETWEEN THE SOD AND SOIL.
7. IRRIGATE NEWLY SODDED AREAS UNTIL THE UNDERLYING SOIL IS WET TO A DEPTH OF FOUR INCHES, AND THEN KEEP MOIST UNTIL THE GRASS TAKES ROOT.

CHANNEL APPLICATION
(SODDING PROVIDES QUICKER PROTECTION THAN SEEDING AND MAY REDUCE THE RISK OF EARLY WASHOUT.)
1. EXCAVATE THE CHANNEL, ALLOWING FOR THE FULL THICKNESS OF THE SOD.
2. LAY THE SOD STRIPS WITH THE LONGEST DIMENSION PERPENDICULAR TO CHANNEL FLOW.
3. STAPLE OR STAKE EACH STRIP OF SOD AT THE CORNERS AND IN THE MIDDLE.
4. STAPLE JUTE OR BIODEGRADABLE POLYPROPYLENE NETTING OVER THE SODDED AREA TO MINIMIZE THE POTENTIAL FOR WASHOUT DURING ESTABLISHMENT.

MAINTENANCE
_ INSPECT WITHIN 24 HOURS OF EACH RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS UNTIL SOD IS WELL ROOTED.
_ AFTER SOD IS WELL-ROOTED (TWO TO THREE WEEKS), MAINTAIN A PLANT HEIGHT OF TWO TO THREE INCHES.
_ TIME MOVING TO AVOID RUTS IN TURF.
_ FERTILIZE TURF AREAS ANNUALLY. APPLY FERTILIZER IN A SPLIT APPLICATION. FOR COOL SEASON GRASSES, APPLY ONE-HALF OF THE FERTILIZER IN LATE SPRING AND ONE-HALF IN EARLY FALL. FOR WARM-SEASON GRASSES, APPLY ONE-THIRD IN EARLY SPRING, ONE-THIRD IN LATE SPRING AND ONE-THIRD IN MID-SUMMER.

REFERENCE IN CHAPTER 7 PAGES 47-50 IN THE INDIANA STORM WATER QUALITY MANUAL

SOD APPLICATION DETAIL (NO SCALE)

SEED SPECIES	RATE PER ACRE	PLANTING DEPTH	OPTIMUM DATES
WHEAT OR RYE	150 LBS.	1 TO 1 1/2 INCHES	SEPT. 15 - OCT. 30
SPRING OATS	100 LBS.	1 INCH	MARCH 1 - APRIL 15
ANNUAL RYEGRASS	40 LBS.	1/2 INCH	MARCH 1 - MAY 1 AUG. 1 - SEPT. 1
GERMAN MILLET	40 LBS.	1 TO 2 INCHES	MAY 1 - JUNE 1
SUDANGRASS	35 LBS.	1 TO 2 INCHES	MAY 1 - JULY 30
BUCKWHEAT	60 LBS.	1 TO 2 INCHES	APRIL 15 - JUNE 1
CORN (BROADCAST)	300 LBS.	1 TO 2 INCHES	MAY 11 - AUG. 10
BORGHUM	35 LBS.	1 TO 2 INCHES	MAY 1 - JULY 15

1 PERENNIAL SPECIES MAY BE USED AS A TEMPORARY COVER, ESPECIALLY IF THE AREA TO BE SEEDDED WILL REMAIN IDLE FOR MORE THAN ONE YEAR.
2 SEEDING DONE OUTSIDE THE OPTIMUM SEEDING DATES INCREASES THE CHANCES OF SEEDING FAILURE. DATES MAY BE EXTENDED OR SHORTENED BASED ON THE LOCATION OF THE PROJECT SITE WITHIN THE STATE.

NOTES
MULCH ALONE IS AN ACCEPTABLE TEMPORARY COVER AND MAY BE USED IN LIEU OF TEMPORARY SEEDING. PROVIDED THAT IT IS APPROPRIATELY ANCHORED. A HIGH POTENTIAL FOR FERTILIZER, SEED, AND MULCH TO WASH EXISTS ON STEEP BANKS, CUTS, AND IN CHANNELS AND AREAS OF CONCENTRATED FLOW.

SEEDBED PREPARATION
1. TEST SOIL TO DETERMINE PH AND NUTRIENT LEVELS.
2. APPLY SOIL AMENDMENTS AS RECOMMENDED BY THE SOIL TEST. IF TESTING IS NOT DONE, APPLY 400 TO 600 POUNDS PER ACRE OF 12-12-12 ANALYSIS FERTILIZER, OR EQUIVALENT.
3. WORK THE SOIL AMENDMENTS INTO THE UPPER TWO TO FOUR INCHES OF THE SOIL WITH A DISK OR RAKE OPERATED ACROSS THE SLOPE.

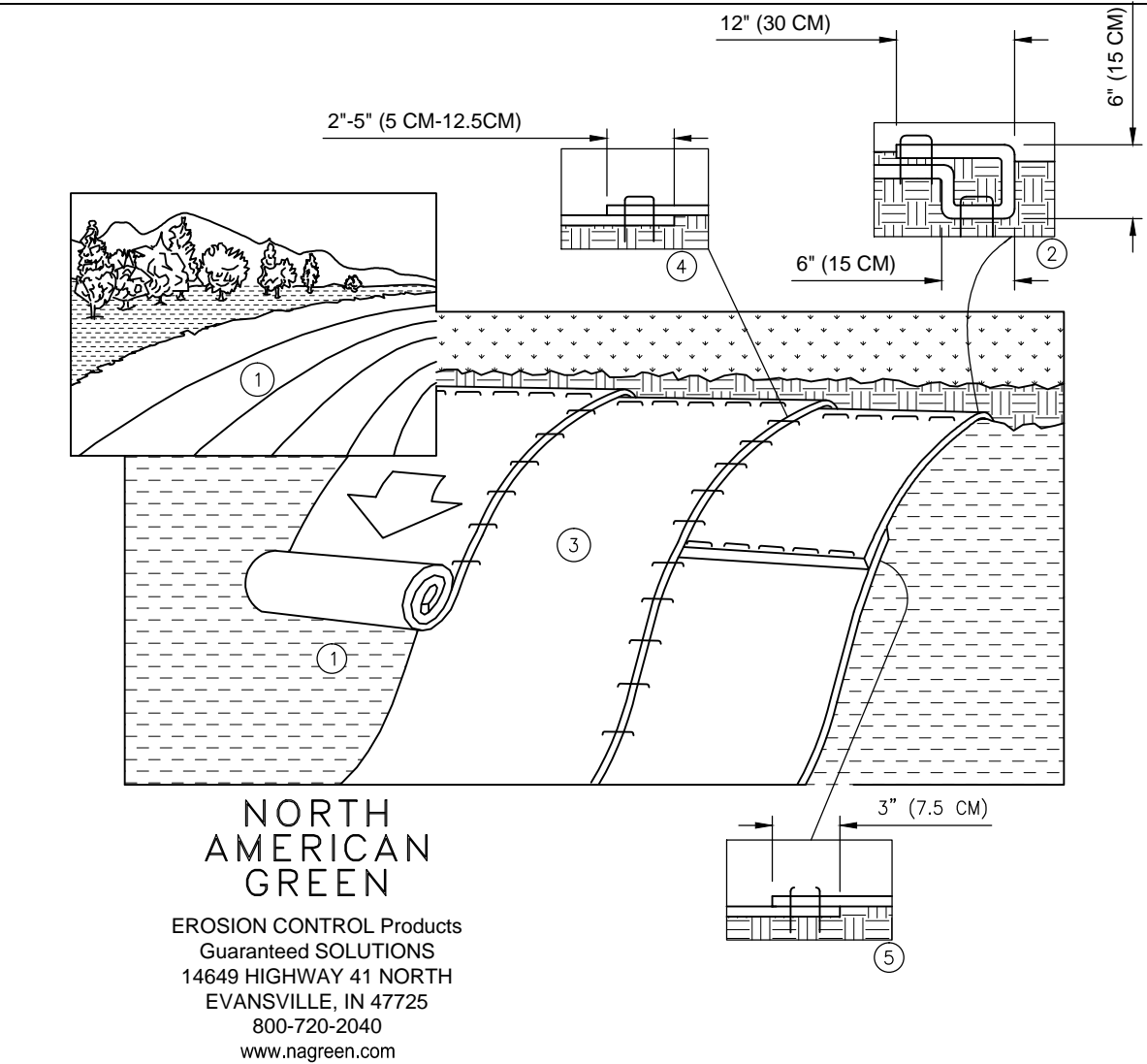
SEEDING
1. SELECT A SEED SPECIES OR AN APPROPRIATE SEED MIXTURE AND APPLICATION RATE FROM TABLE.
2. APPLY SEED UNIFORMLY WITH A DRILL OR CULPACKER SEEDER OR BY BROADCASTING. PLANT OR COVER SEED TO THE DEPTH SHOWN IN TABLE 1.

NOTES
1. IF DRILLING OR BROADCASTING THE SEED, ENSURE GOOD SEED-TO-SOIL CONTACT BY FIRING THE SEEDBED WITH A ROLLER OR CULPACKER AFTER COMPLETING SEEDING OPERATIONS.
2. DAILY SEEDING WHEN THE SOIL IS MOIST IS USUALLY MOST EFFECTIVE.
3. IF SEEDING IS DONE WITH A HYDROSEDER, FERTILIZER AND MULCH CAN BE APPLIED WITH THE SEED IN A SLURRY MIXTURE.
3. APPLY MULCH AND ANCHOR IT IN PLACE.

MAINTENANCE
_ INSPECT WITHIN 24 HOURS OF EACH RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.
_ CHECK FOR EROSION OR MOVEMENT OF MULCH AND REPAIR IMMEDIATELY.
_ MONITOR FOR EROSION DAMAGE AND ADEQUATE COVER (80 PERCENT DENSITY); RESEED, FERTILIZE, AND APPLY MULCH WHERE NECESSARY.
_ IF NITROGEN DEFICIENCY IS APPARENT, TOP-DRESS FALL SEEDDED WHEAT OR RYE SEEDING WITH 50 POUNDS PER ACRE OF NITROGEN IN FEBRUARY OR MARCH.

REFERENCE IN CHAPTER 7 PAGES 31-33 IN THE INDIANA STORM WATER QUALITY MANUAL

TEMPORARY SEED



EROSION CONTROL PRODUCTS
Guaranteed SOLUTIONS
14649 HIGHWAY 41 NORTH
EVANSVILLE, IN 47725
800-720-2040
www.nagreen.com

1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECPs), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.

2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECPs IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) OF RECPs EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECPs WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECPs BACK OVER SEED AND COMPACTED SOIL. SECURE RECPs COVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECPs.

3. ROLL THE RECPs (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. RECPs WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECPs MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THOUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.

4. THE EDGES OF PARALLEL RECPs MUST BE STAPLED WITH APPROXIMATELY 2" - 5" (5 CM - 12.5 CM) OVERLAP DEPENDING ON RECPs TYPE.

5. CONSECUTIVE RECPs SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECPs WIDTH. NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE R STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECPs.

SLOPE INSTALLATION (NO SCALE)

SEED MIXTURES	RATE PER ACRE PURE LIVE SEED	OPTIMUM SOIL PH
1. PERENNIAL RYEGRASS - WHITE CLOVER	70 LBS. 2 LBS.	5.5 TO 7.0
2. PERENNIAL RYEGRASS - TALL FESCUE	70 LBS. 50 LBS.	5.5 TO 7.0
3. TALL FESCUE - WHITE CLOVER	70 LBS. 2 LBS.	5.5 TO 7.5

SEED MIXTURES	RATE PER ACRE PURE LIVE SEED	OPTIMUM SOIL PH
1. SMOOTH BROME GRASS - RED CLOVER	30 LBS. 20 LBS.	5.5 TO 7.0
2. TALL FESCUE - WHITE CLOVER	50 LBS. 2 LBS.	5.5 TO 7.5
3. TALL FESCUE - RED CLOVER	50 LBS. 20 LBS.	5.5 TO 7.5
4. ORCHARD GRASS - RED CLOVER - WHITE CLOVER	30 LBS. 20 LBS. 2 LBS.	5.5 TO 7.0
5. CROWNCRACK - TALL FESCUE	12 LBS. 30 LBS.	5.5 TO 7.0

SEED MIXTURES	RATE PER ACRE PURE LIVE SEED	OPTIMUM SOIL PH
1. BLUEGRASS	140 LBS.	5.5 TO 7.0
2. PERENNIAL RYEGRASS (TURF TYPE)	60 LBS. 90 LBS.	5.5 TO 7.0
3. TALL FESCUE (TURF TYPE) - BLUEGRASS	170 LBS. 30 LBS.	5.5 TO 7.5

SEED MIXTURES	RATE PER ACRE PURE LIVE SEED	OPTIMUM SOIL PH
1. PERENNIAL RYEGRASS - WHITE	150 LBS. 2 LBS.	5.5 TO 7.0
2. KENTUCKY BLUEGRASS - SMOOTH BROMEGRASS - SWITZGRASS - TIMOTHY - PERENNIAL RYEGRASS - WHITE CLOVER	20 LBS. 10 LBS. 3 LBS. 4 LBS. 10 LBS. 2 LBS.	5.5 TO 7.5
3. TALL FESCUE - WHITE CLOVER	150 LBS. 2 LBS.	5.5 TO 7.5
4. TALL FESCUE - PERENNIAL RYEGRASS - KENTUCKY BLUEGRASS	150 LBS. 20 LBS. 20 LBS.	5.5 TO 7.5

NOTES
1. AN OAT OR WHEAT COMPANION OR NURSE CROP MAY BE USED WITH ANY OF THE ABOVE PERMANENT SEEDING MIXTURES AT THE FOLLOWING RATES:
(A) SPRING OATS - ONE-FOURTH TO THREE-FOURTHS BUSHEL PER ACRE
(B) WHEAT - NO MORE THAN ONE-HALF BUSHEL PER ACRE
2. A HIGH POTENTIAL FOR FERTILIZER, SEED, AND MULCH TO WASH EXISTS ON STEEP BANKS, CUTS, AND IN CHANNELS AND AREAS OF CONCENTRATED

INSTALLATION
1. GRADE THE SITE TO ACHIEVE POSITIVE DRAINAGE.
2. ADD TOPSOIL OR COMPOST MULCH TO ACHIEVE NEEDED DEPTH FOR ESTABLISHMENT OF VEGETATION. (COMPOST MATERIAL MAY BE ADDED TO IMPROVE SOIL MOISTURE HOLDING CAPACITY, SOIL FRIABILITY, AND NUTRIENT AVAILABILITY.)

SEEDBED PREPARATION
1. TEST SOIL TO DETERMINE PH AND NUTRIENT LEVELS.
2. APPLY SOIL AMENDMENTS AS RECOMMENDED BY THE SOIL TEST AND WORK INTO THE UPPER TWO TO FOUR INCHES OF SOIL. IF TESTING IS NOT DONE, APPLY 400 TO 600 POUNDS PER ACRE OF 12-12-12 ANALYSIS FERTILIZER, OR EQUIVALENT.
3. TILL THE SOIL TO OBTAIN A UNIFORM SEEDBED. USE A DISK OR RAKE, OPERATED ACROSS THE SLOPE, TO WORK THE SOIL AMENDMENTS INTO THE UPPER TWO TO FOUR INCHES OF THE SOIL.

SEEDING
OPTIMUM SEEDING DATES ARE MARCH 1 TO MAY 10 AND AUGUST 10 TO SEPTEMBER 30. PERMANENT SEEDING DONE BETWEEN MAY 10 AND AUGUST 10 MAY NEED TO BE IRRIGATED. SEEDING OUTSIDE OR BEYOND OPTIMUM SEEDING DATES IS STILL POSSIBLE WITH THE UNDERSTANDING THAT RESEEDING OR OVERSEEDING MAY BE REQUIRED IF ADEQUATE SURFACE COVER IS NOT ACHIEVED. RESEEDING OR OVERSEEDING CAN BE EASILY ACCOMPLISHED IF THE SOIL SURFACE REMAINS WELL PROTECTED WITH MULCH.
1. SELECT A SEEDING MIXTURE AND RATE FROM TABLE 1. SELECT SEED MIXTURE BASED ON SITE CONDITIONS, SOIL PH, INTENDED LAND USE, AND EXPECTED LEVEL OF MAINTENANCE.
2. APPLY SEED UNIFORMLY WITH A DRILL OR CULPACKER SEEDER OR BY BROADCASTING. PLANT OR COVER THE SEED TO A DEPTH OF ONE-FOURTH TO ONE-HALF INCH. IF DRILLING OR BROADCASTING THE SEED, ENSURE GOOD SEED-TO-SOIL CONTACT BY FIRING THE SEEDBED WITH A ROLLER OR CULPACKER AFTER COMPLETING SEEDING OPERATIONS. (IF SEEDING IS DONE WITH A HYDROSEDER, FERTILIZER AND MULCH CAN BE APPLIED WITH THE SEED IN A SLURRY MIXTURE.)
3. MULCH ALL SEEDED AREAS AND USE APPROPRIATE METHODS TO ANCHOR THE MULCH IN PLACE. CONSIDER USING EROSION CONTROL BLANKETS ON SLOPING AREAS AND CONVEYANCE CHANNELS

MAINTENANCE
INSPECT WITHIN 24 HOURS OF EACH RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS UNTIL THE VEGETATION IS SUCCESSFULLY ESTABLISHED.
_ CHARACTERISTICS OF A SUCCESSFUL STAND INCLUDE VIGOROUS DARK GREEN OR BLuish-GREEN SEEDLINGS WITH A UNIFORM VEGETATIVE COVER DENSITY OF 90 PERCENT OR MORE.
_ CHECK FOR EROSION OR MOVEMENT OF MULCH.
_ REPAIR DAMAGED, BARE, GULLED, OR SPARSLEY VEGETATED AREAS AND THEN FERTILIZE, RESEED, AND APPLY AND ANCHOR MULCH.
_ IF PLANT COVER IS SPARSE OR PATCHY, EVALUATE THE PLANT MATERIALS CHOSEN, SOIL FERTILITY, MOISTURE CONDITION, AND MULCH APPLICATION. REPAIR AFFECTED AREAS EITHER BY OVERSEEDING OR PREPARING A NEW SEEDBED AND RESEEDING. APPLY AND ANCHOR MULCH ON THE NEWLY SEEDDED AREAS.
_ IF VEGETATION FAILS TO GROW, CONSIDER SOIL TESTING TO DETERMINE SOIL PH OR NUTRIENT DEFICIENCY PROBLEMS. (CONTACT YOUR SOIL AND WATER CONSERVATION DISTRICT OR COOPERATIVE EXTENSION OFFICE FOR ASSISTANCE.)
_ IF ADDITIONAL FERTILIZATION IS NEEDED TO GET A SATISFACTORY STAND, DO SO ACCORDING TO SOIL TEST RECOMMENDATIONS.
_ ADD FERTILIZER THE FOLLOWING GROWING SEASON. FERTILIZE ACCORDING TO SOIL TEST RECOMMENDATIONS.
_ FERTILIZE TURF AREAS ANNUALLY. APPLY FERTILIZER IN A SPLIT APPLICATION. FOR COOL-SEASON GRASSES, APPLY ONE-HALF OF THE FERTILIZER IN LATE SPRING AND ONE HALF IN EARLY FALL. FOR WARM-SEASON GRASSES, APPLY ONE-THIRD IN EARLY SPRING, ONE-THIRD IN LATE SPRING, AND THE REMAINING ONE-THIRD IN MIDDLE SUMMER.

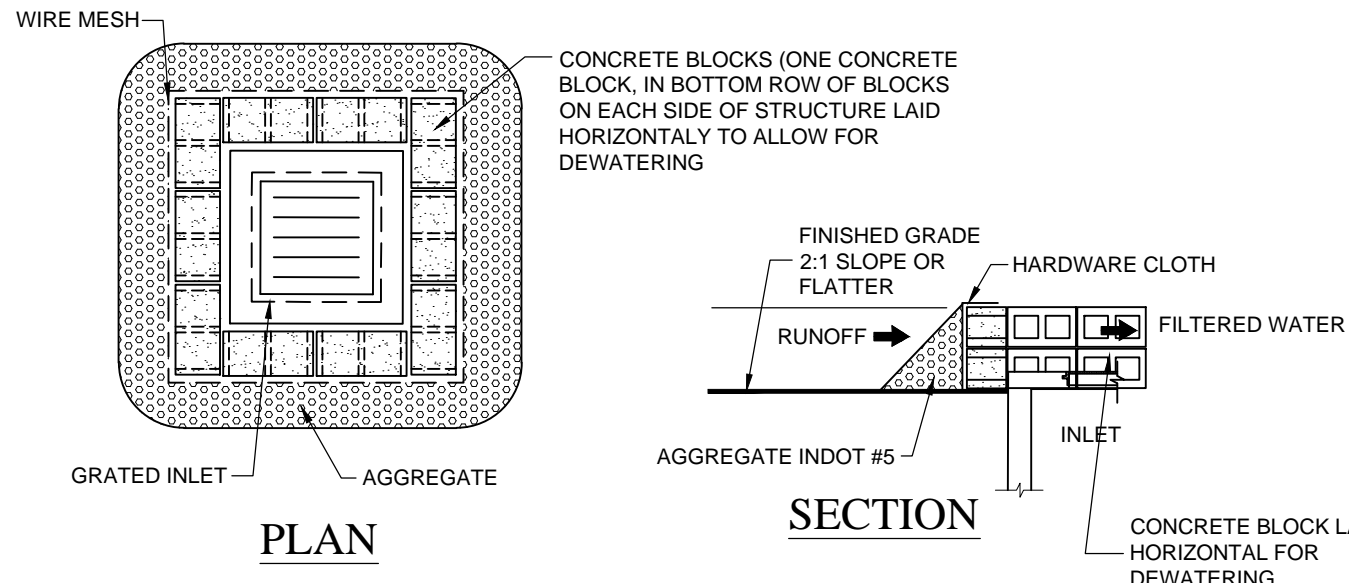
TABLE 1. PERMANENT SEEDING RECOMMENDATIONS
THIS TABLE PROVIDES SEVERAL SEED MIXTURE OPTIONS. ADDITIONAL SEED MIXTURES ARE AVAILABLE COMMERCIALY. WHEN SELECTING A MIXTURE, CONSIDER INTENDED LAND USE AND SITE CONDITIONS, INCLUDING SOIL PROPERTIES (E.G., SOIL PH AND DRAINAGE), SLOPE ASPECT, AND THE TOLERANCE OF EACH SPECIES TO SHADE AND DROUGHT.

REFERENCE IN CHAPTER 7 PAGES 35-40 IN THE INDIANA STORM WATER QUALITY MANUAL

PERMANENT SEED

MAINTENANCE
INSPECT WITHIN 24 HOURS OF A RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.
_ INSPECT FOR STONE DISPLACEMENT; REPLACE STONES ENSURING PLACEMENT AT FINISHED GRADE.
_ CHECK FOR EROSION OR SCOURING AROUND SIDES OF THE APRON; REPAIR IMMEDIATELY.
_ CHECK FOR PIPING OR UNDERCUTTING; REPAIR IMMEDIATELY.

REFERENCE IN CHAPTER 7 PAGE 121 IN THE INDIANA STORM WATER QUALITY MANUAL



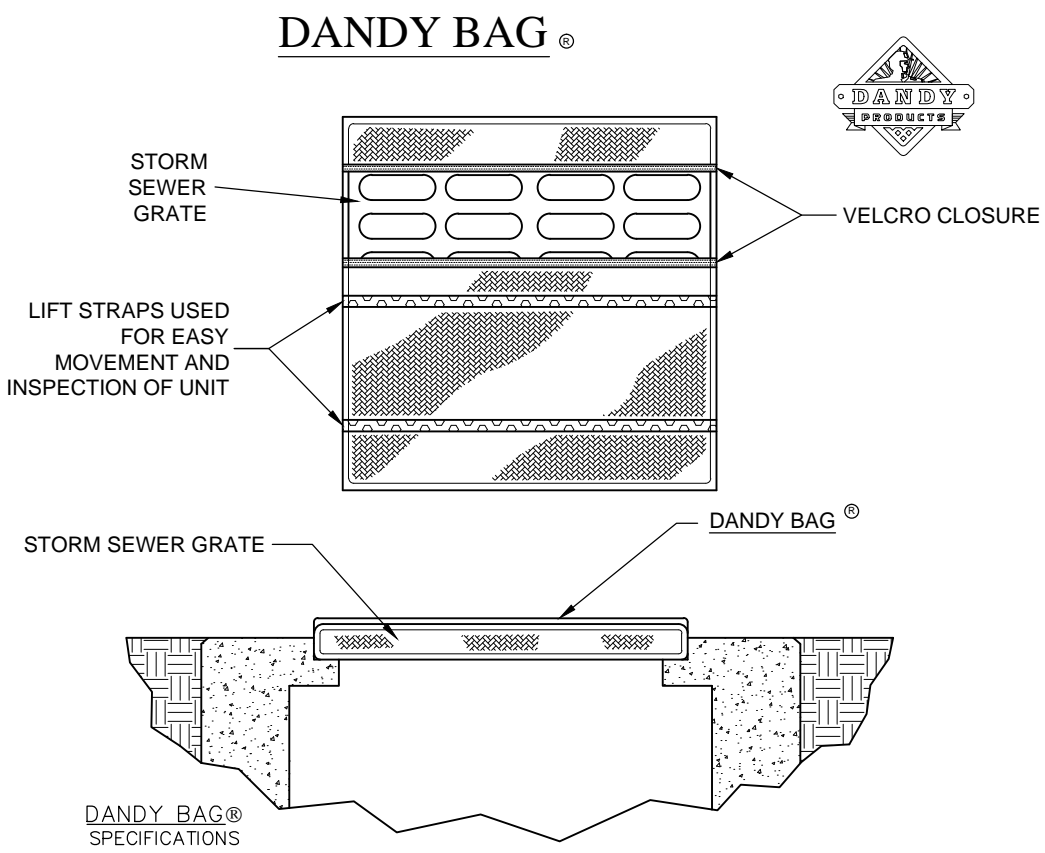
INSTALLATION
1. EXCAVATE THE FOUNDATION FOR THE CONCRETE BLOCKS ON LEVEL GRADE AND AT LEAST TWO INCHES BELOW THE TOP OF THE STORM DRAIN INLET.
2. PLACE THE BOTTOM ROW OF CONCRETE BLOCKS AROUND THE PERIMETER OF THE STORM DRAIN. LAY BLOCKS WITH OPENINGS FACING UP, ABUTTING THE BLOCKS FIRMLY TOGETHER AND OVERLAPPING THE CORNERS.
3. IF NECESSARY, SUPPORT THE BLOCKS BY DRIVING SHARPENED 2 X 4 INCH WOOD STUDS OR REBAR (NOT MORTAR) THROUGH THE BLOCK OPENINGS AND INTO THE UNDERLYING SOIL.
4. ON EACH SIDE OF THE BOTTOM ROW, TURN ONE CONCRETE BLOCK WITH ITS OPENINGS FACING HORIZONTALLY TO ALLOW FOR DEWATERING.
5. PLACE HARDWARE CLOTH OVER THE OPENINGS TO HOLD THE AGGREGATE IN PLACE.
6. PLACE THE FILTER MEDIUM (INDOT CA NO. 5 AGGREGATE) AROUND THE OUTSIDE OF THE CONCRETE BLOCKS TO CONTROL DRAINAGE RATE; LIMIT FILTER MEDIUM SIDE SLOPES TO 2:1 RATIO OR FLATTER.

NOTE: IN SITUATIONS WHERE STORM WATER MAY BYPASS THE STRUCTURE, EITHER:
_ SET THE TOP OF THE CONCRETE BLOCKS AT LEAST SIX INCHES HIGHER THAN THE GROUND ELEVATION ON THE DOWN-SLOPE SIDE OF THE STORM DRAIN INLET.
_ BUILD A TEMPORARY DIKE, COMPACTED TO SIX INCHES HIGHER THAN THE CONCRETE BLOCKS, ON THE DOWN-SLOPE SIDE OF THE STORM DRAIN INLET, AND/OR
_ USE IN CONJUNCTION WITH EXCAVATED DROP-INLET PROTECTION (SEE EXCAVATED DROP INLET PROTECTION ON PAGE 145).

MAINTENANCE
INSPECT DAILY.
_ REMOVE SEDIMENT AND DEBRIS AND MAKE NEEDED REPAIRS IMMEDIATELY.
_ WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE AND PROPERLY DISPOSE OF ALL CONSTRUCTION MATERIAL AND SEDIMENT, THEN STABILIZE.

REFERENCED IN CHAPTER 7 PAGE 163 TO 166 IN THE INDIANA STORM WATER QUALITY MANUAL.

BLOCK AND AGGREGATE INLET SEDIMENT DEVICE (NO SCALE)



NOTE: THE DANDY BAG® WILL BE MANUFACTURED IN THE U.S.A. FROM A WOVEN MONOFILAMENT FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS:

HI-FLOW DANDY BAG® (SAFETY ORANGE)

Mechanical Properties	Test Method	Units	MARV
Grab Tensile Strength	ASTM D 4632	kN (lbs)	1.62 (365) X 0.89 (200)
Grab Tensile Elongation	ASTM D 4632	%	24 X 10
Puncture Strength	ASTM D 4833	kN (lbs)	0.40 (90)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	3097 (450)
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.51 (115) X 0.33 (75)
UV Resistance	ASTM D 4355	%	90
Apparent Opening Size	ASTM D 4751	Mm (US Std Sieve)	0.425 (40)
Flow Rate	ASTM D 4491	l/min/m² (gal/min/ft²)	5907 (145)
Permeability	ASTM D 4491	Sec	2.1

*Note: All Dandy Bags® can be ordered with our optional oil absorbent pillows

DETAIL OF INLET SEDIMENT CONTROL DEVICE (NO SCALE)

10505 N. College Avenue
Indianapolis, Indiana 46280
weihe.net
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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.: W150351
DATE: 03/17/2016
BY: BJS
CITY SUBMITTAL
DESIGN: C104
CHECKED BY: BJS
DATE: 03/17/2016

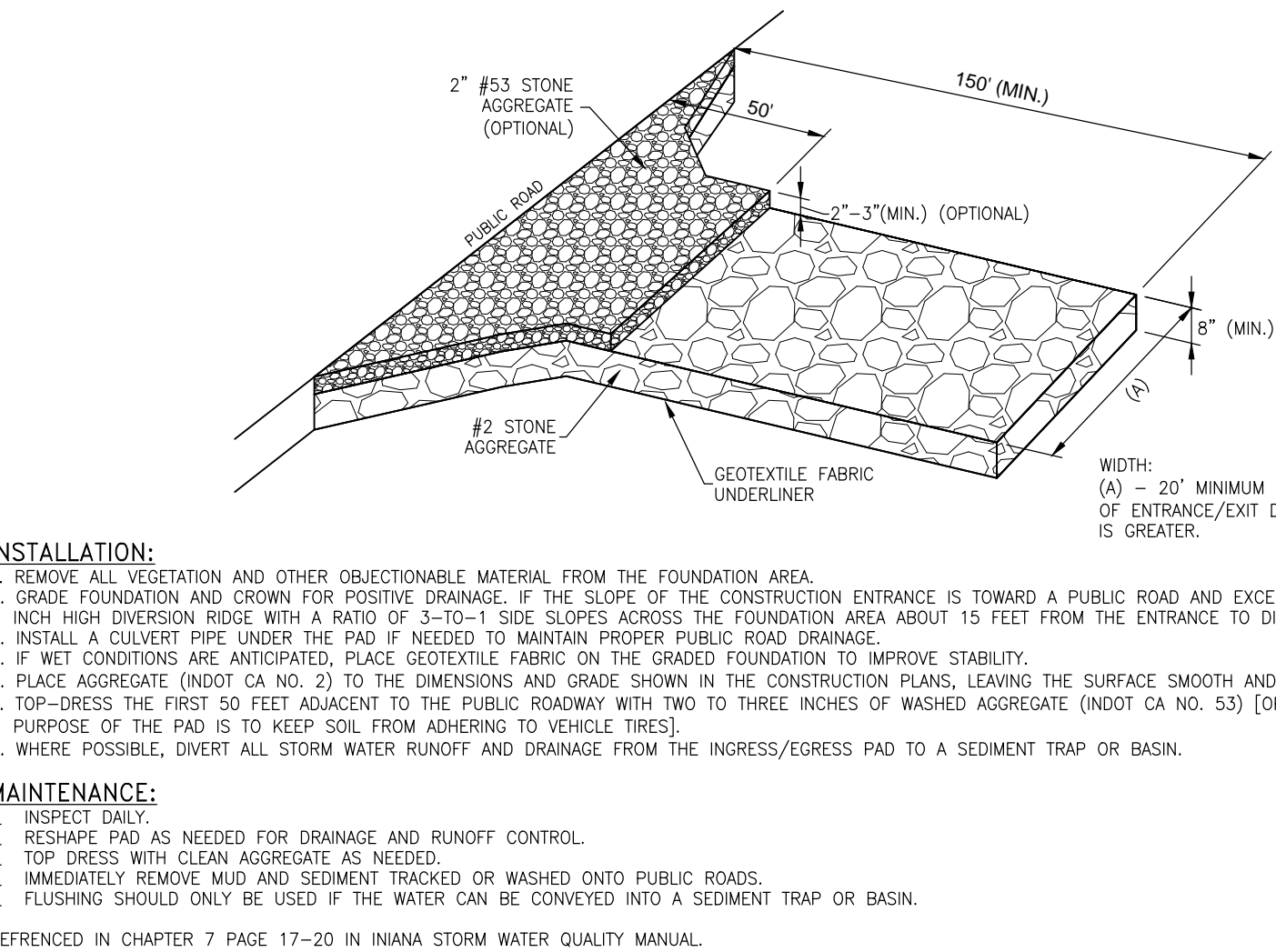
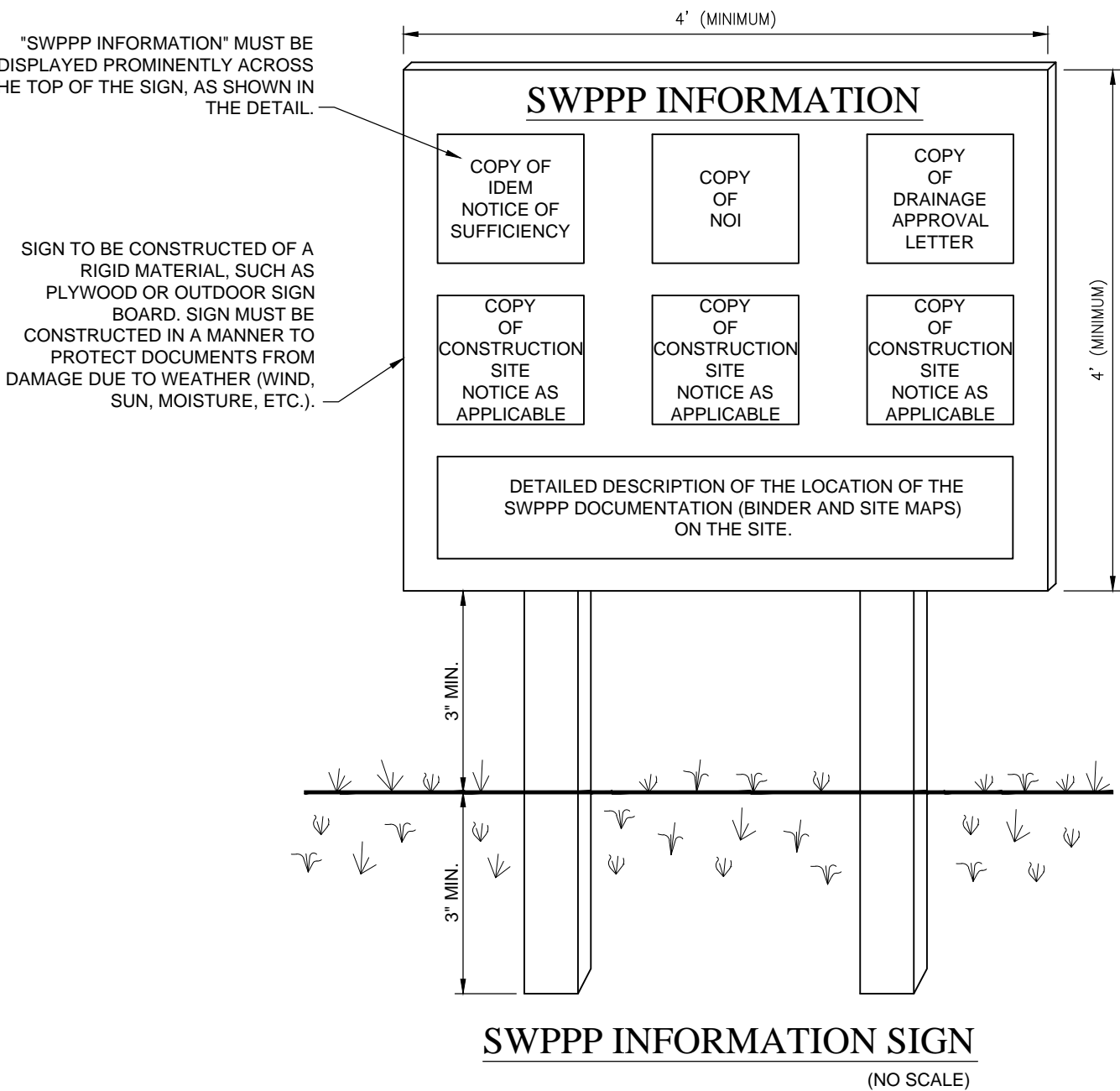
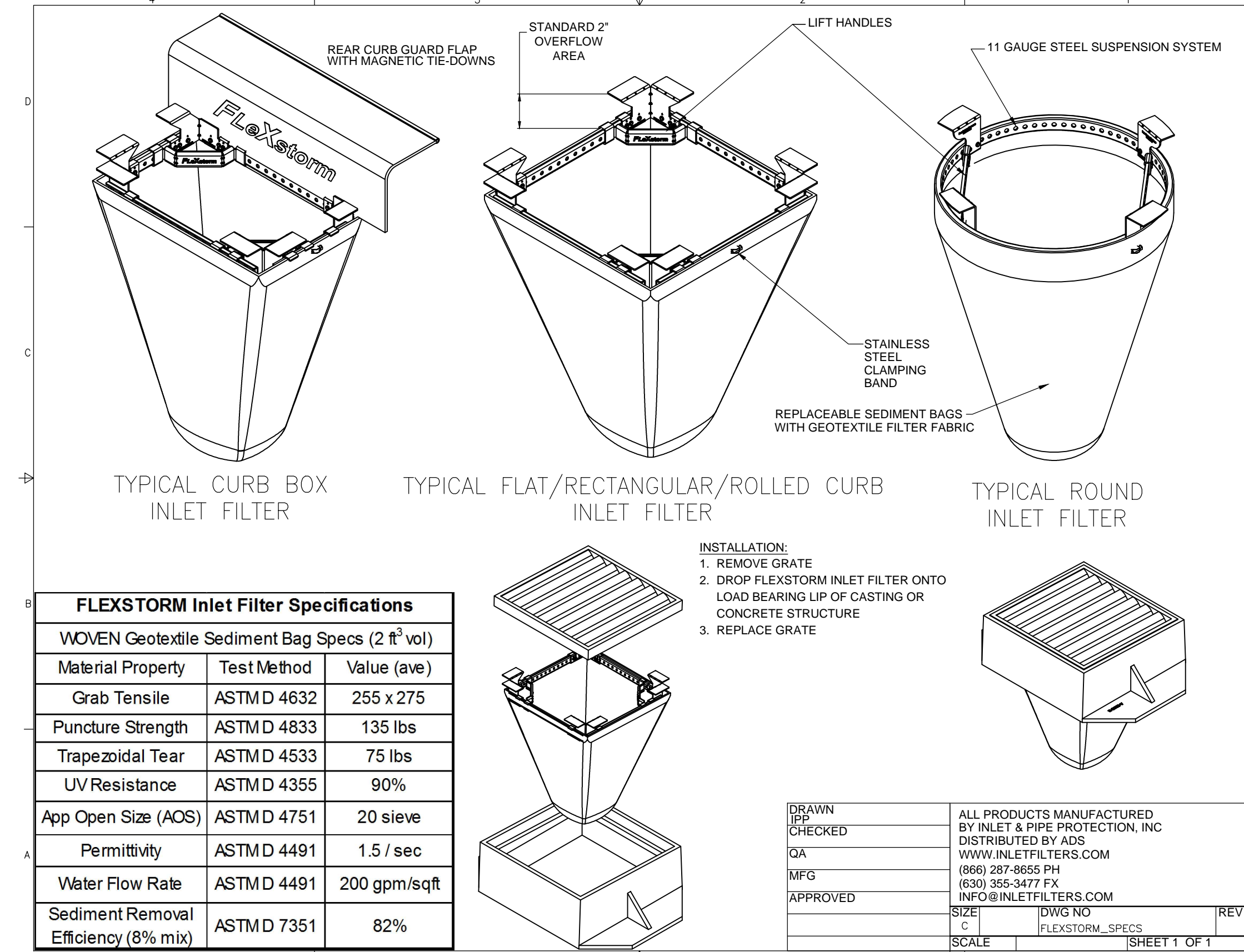
STEVEN SCOTT RUCKER P.E. 113002970
REGISTERED PROFESSIONAL ENGINEER
STATE OF INDIANA
PE-14302979

STEVEN SCOTT RUCKER P.E. 113002970

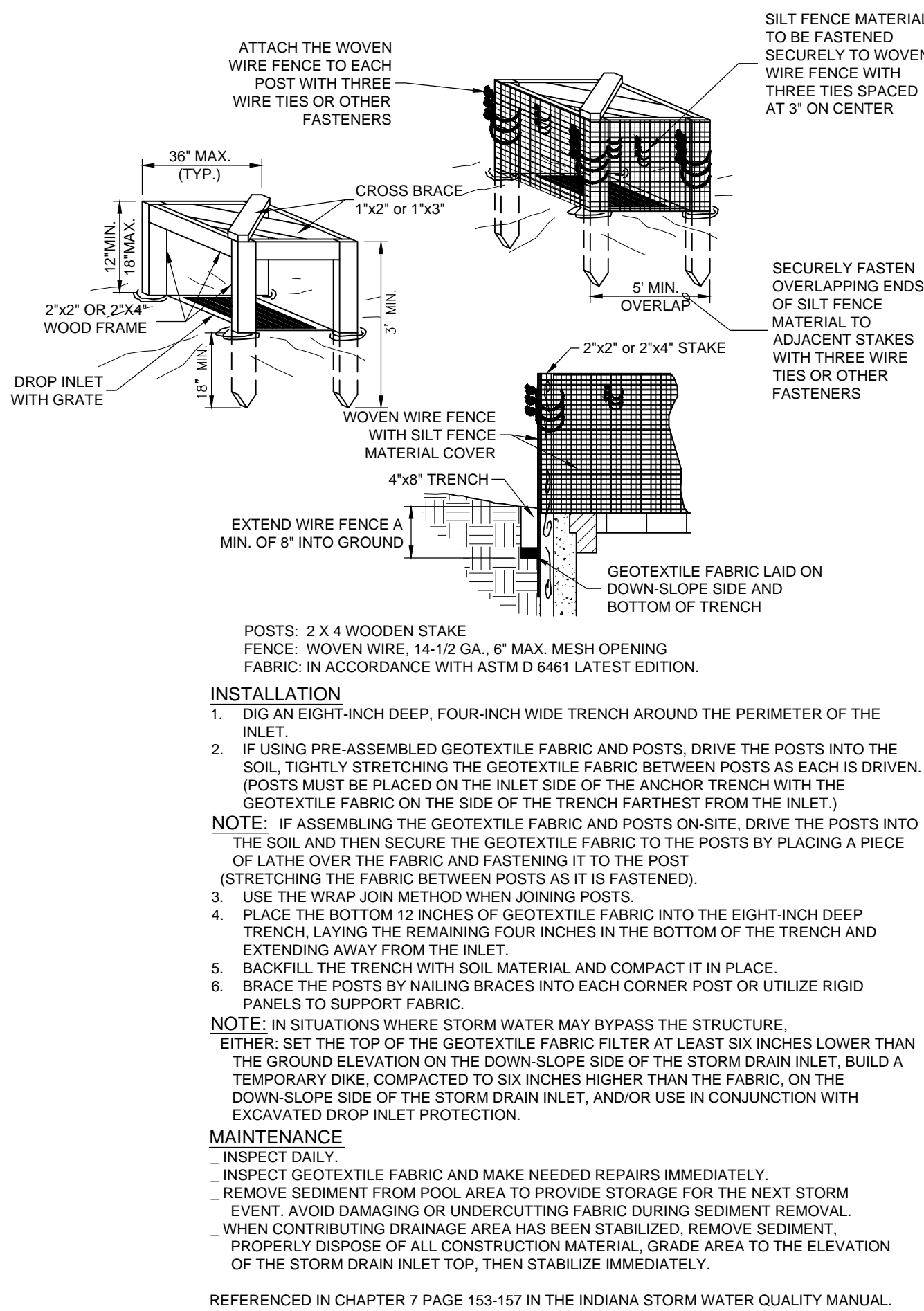
PREPARED FOR: IN FRANKLIN MORTON, LLC
xxx NORTH MORTON STREET, FRANKLIN, IN 46131
STORMWATER POLLUTION PREVENTION PLAN DETAILS
Part of the NE/L of Section 15, Township 12 North, Range 4 East, Franklin Township, Johnson County, Indiana

SHEET NO. C104
PROJECT NO. W15.0351

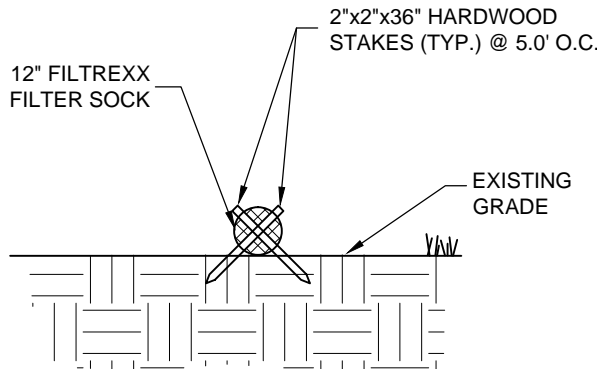
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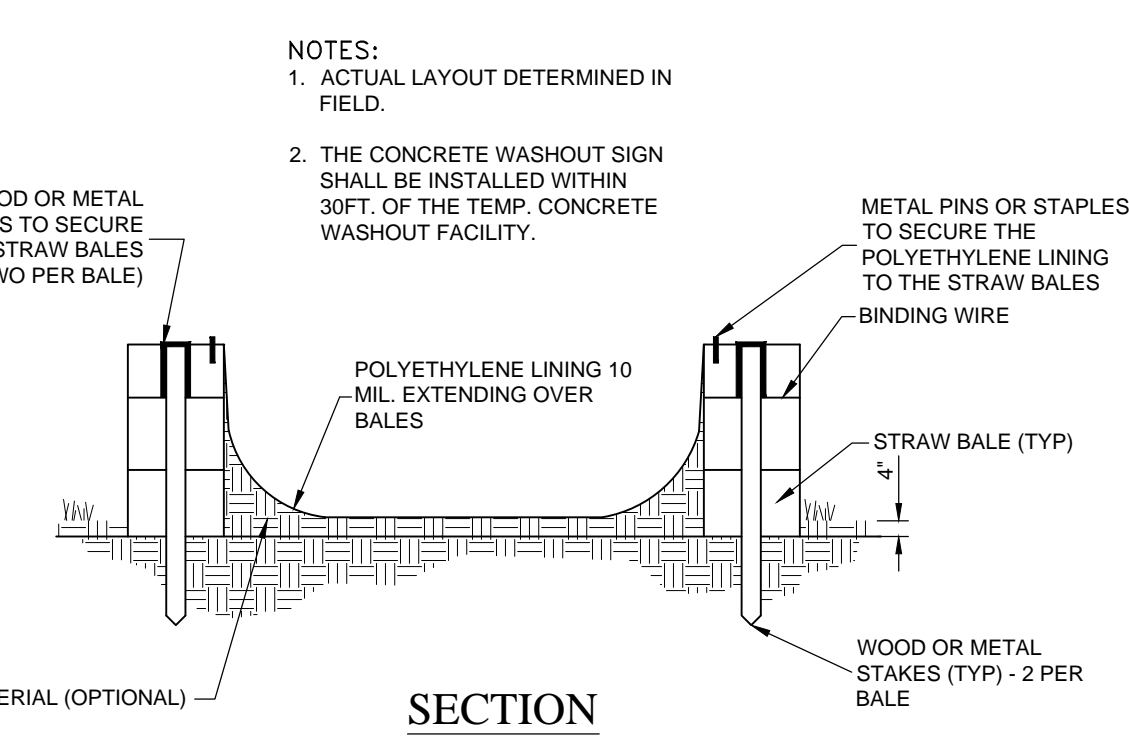
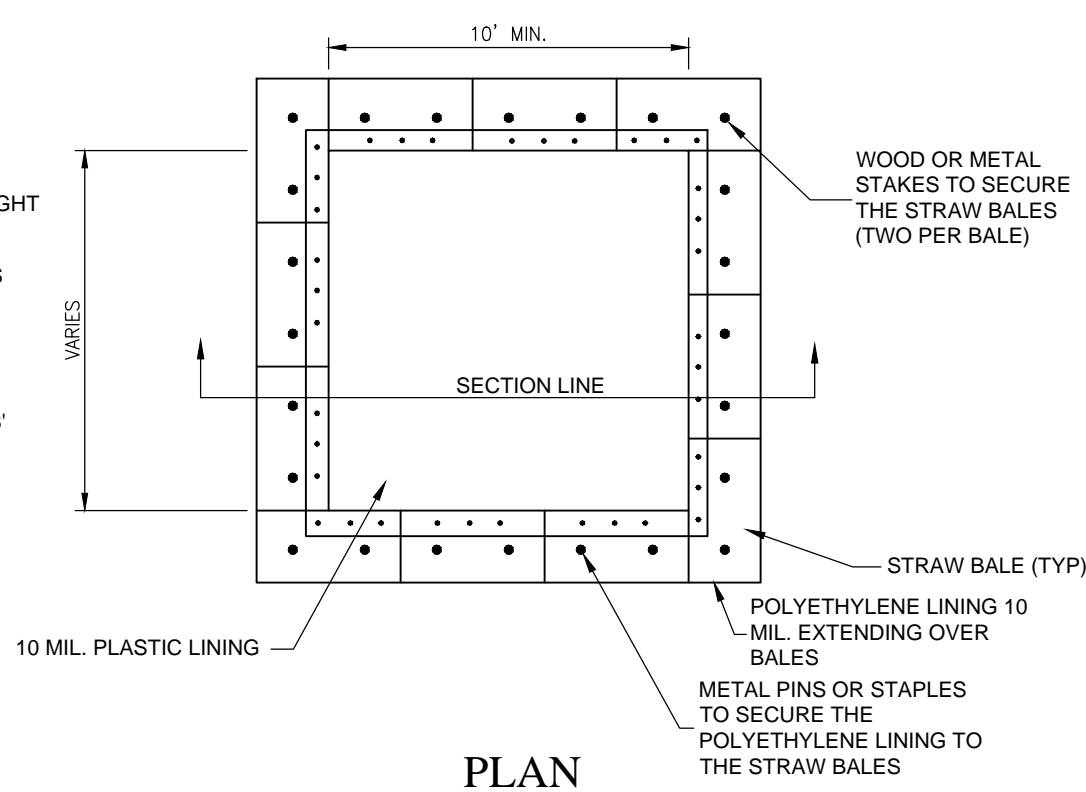
TEMPORARY CONSTRUCTION INGRESS/EGRESS PAD
LARGE SITES - TWO ACRES OR LARGER
(NO SCALE)



SILT FENCE INLET PROTECTION
FOR NON PAVED AREAS
(NO SCALE)

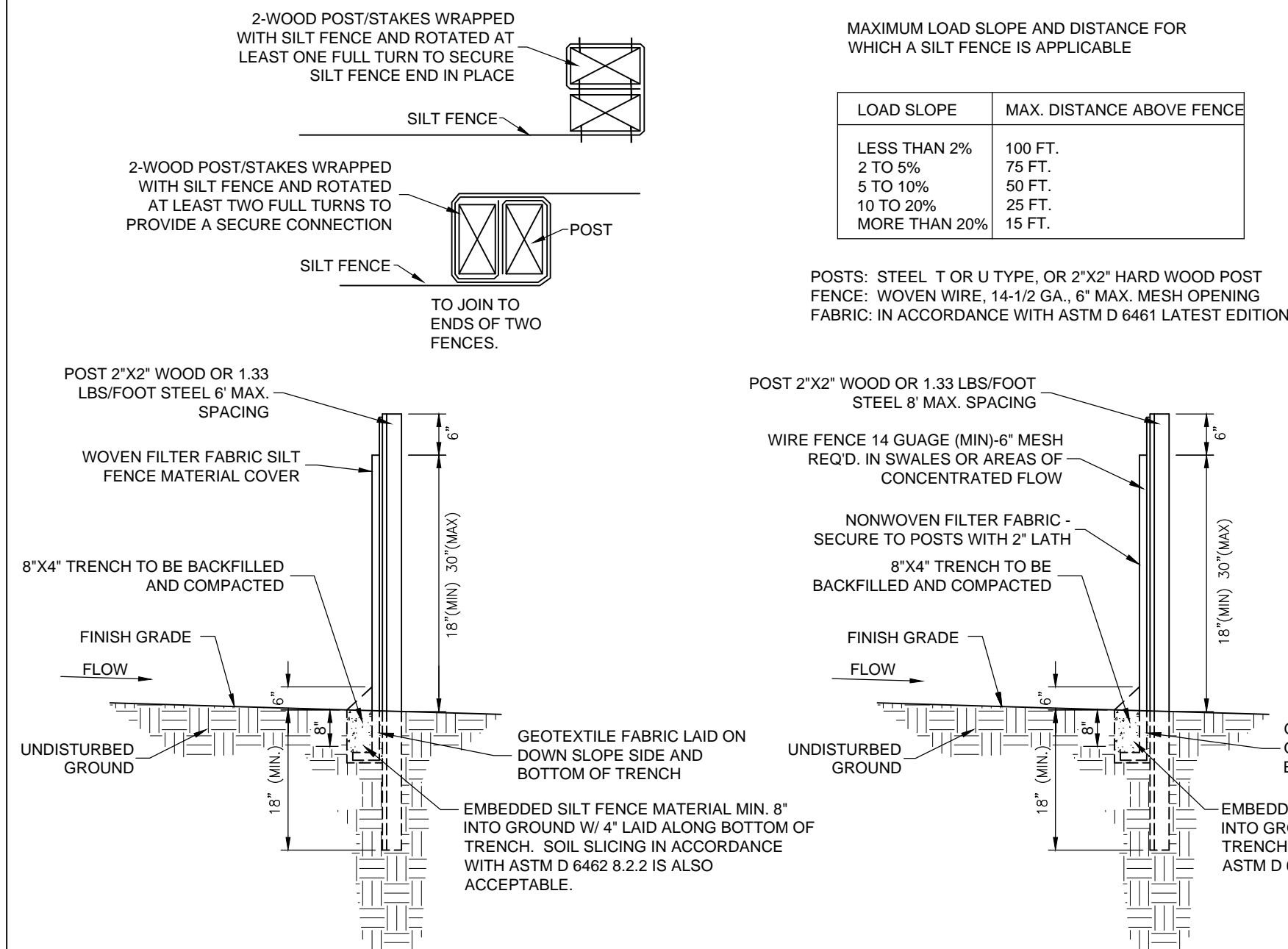


COIR LOG (FIBER ROLL)



WITHOUT WIRE SUPPORT

WITH WIRE SUPPORT



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WEIHE
ENGINEERS

Land Surveying | Civil Engineering
Landscape Architecture

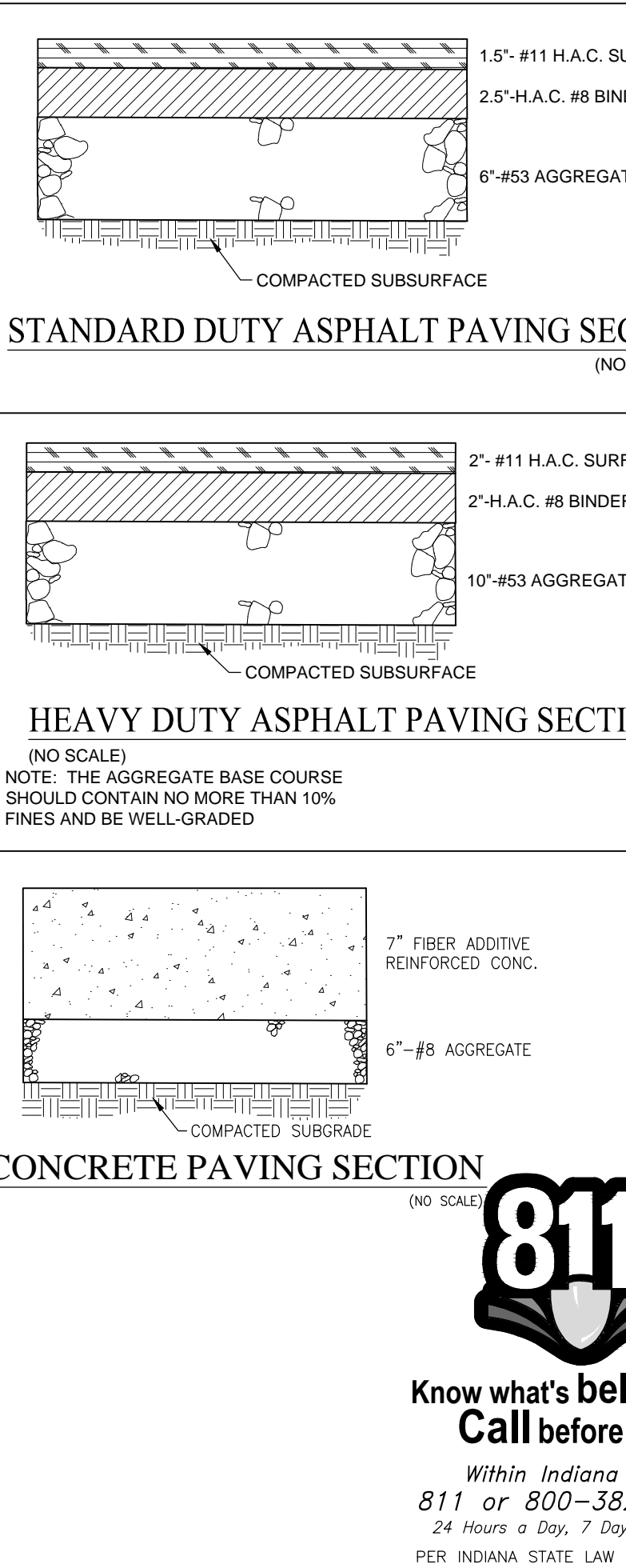
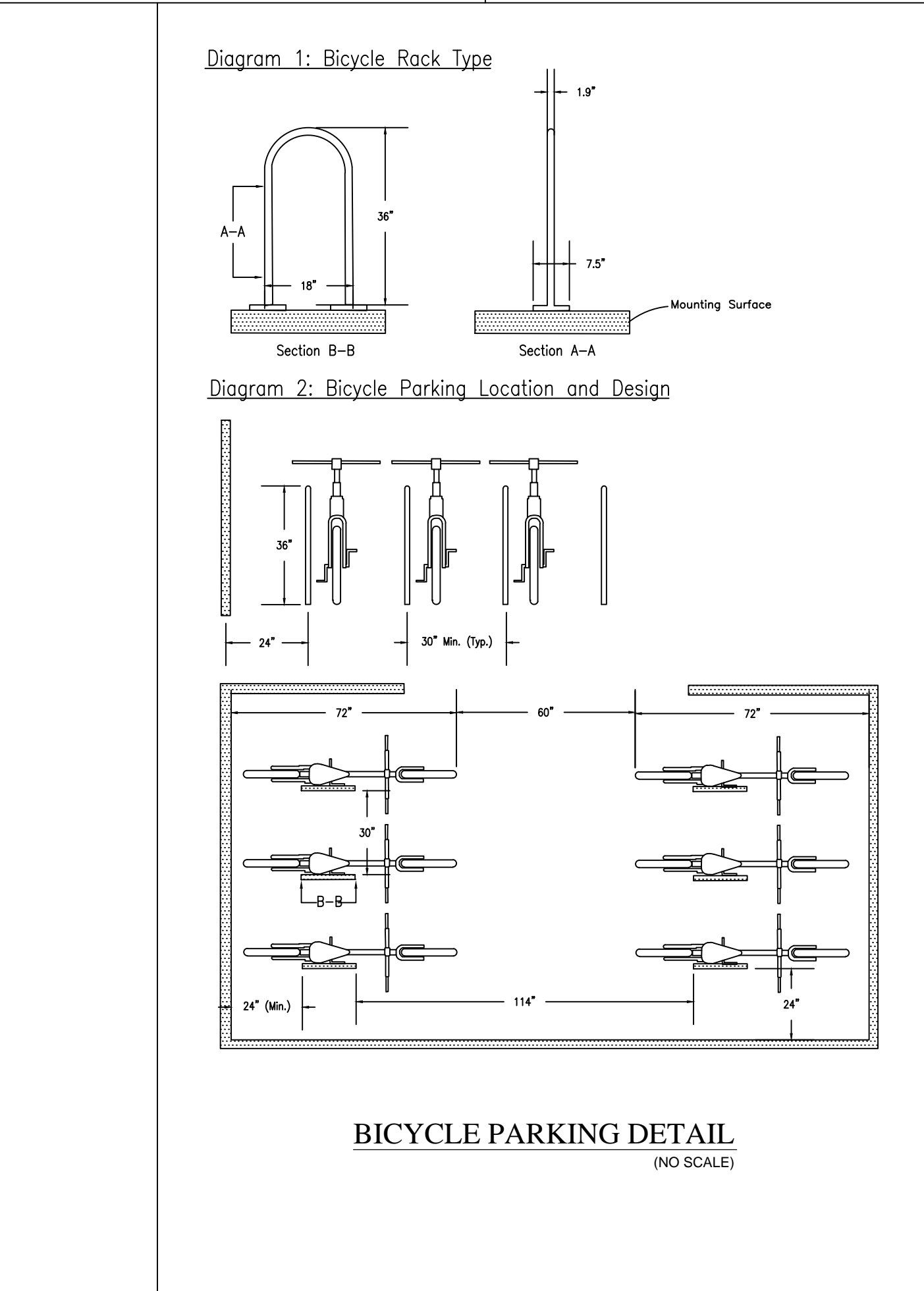
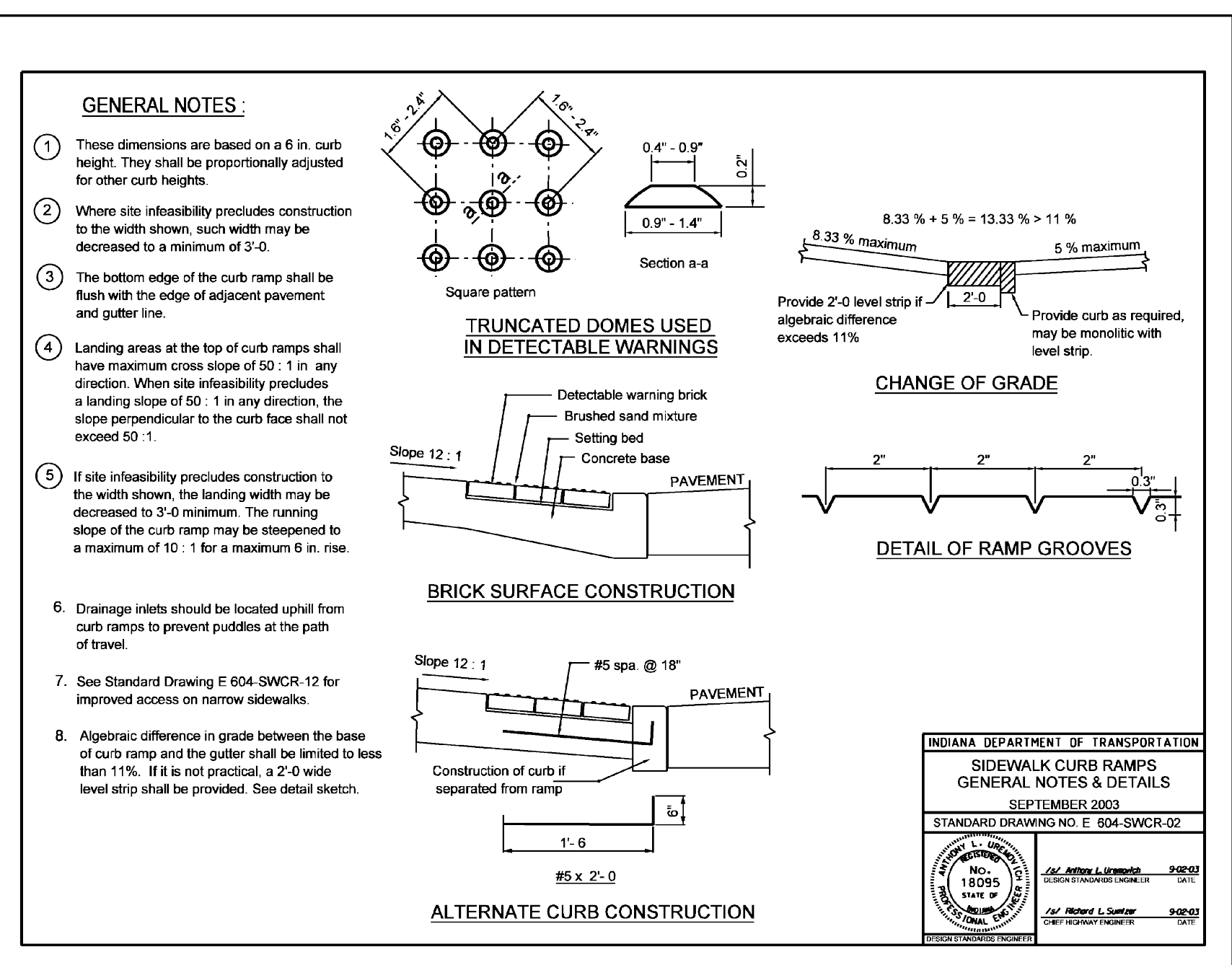
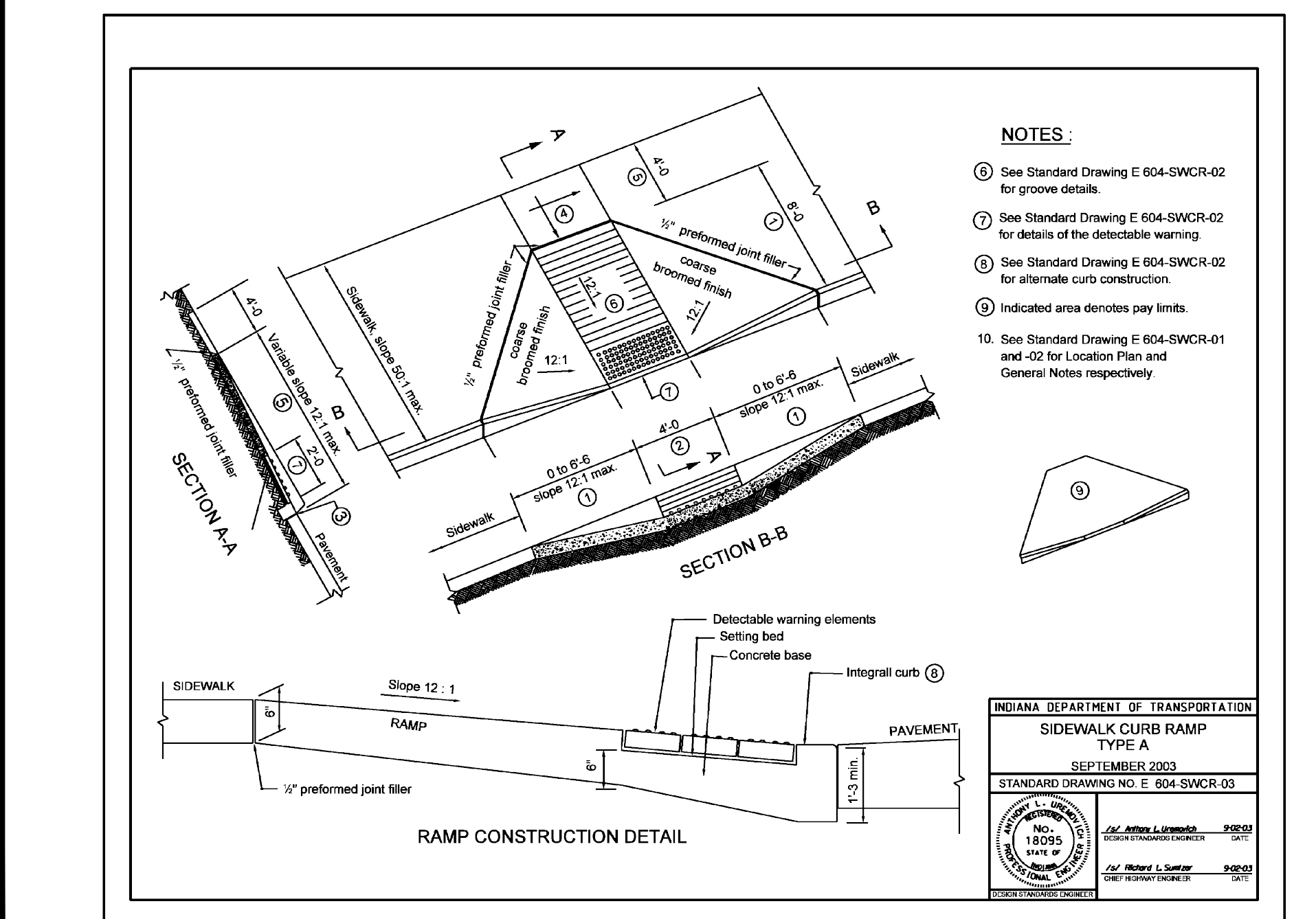
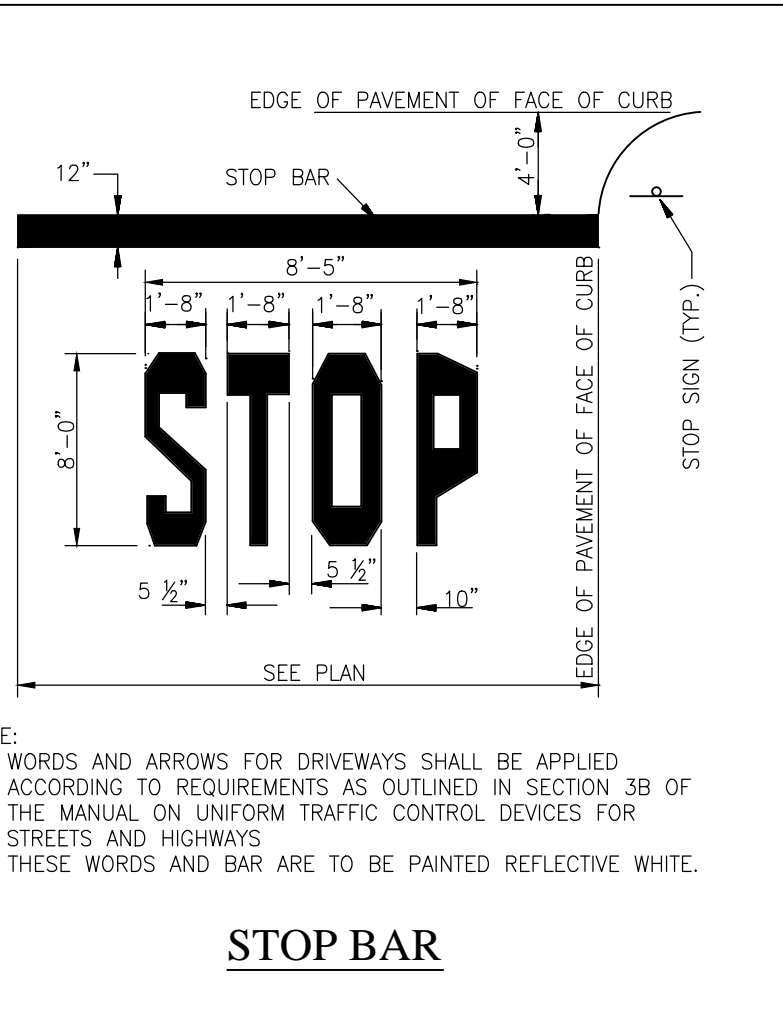
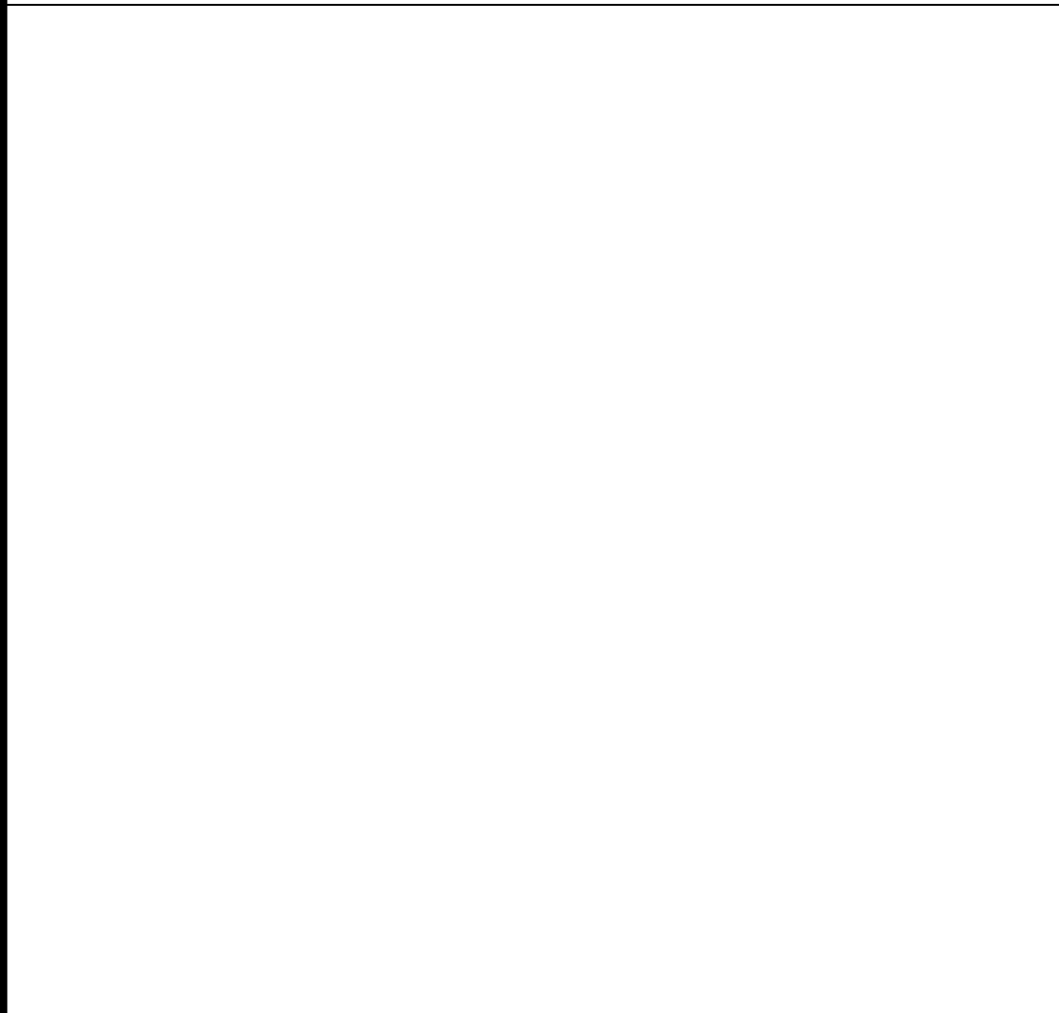
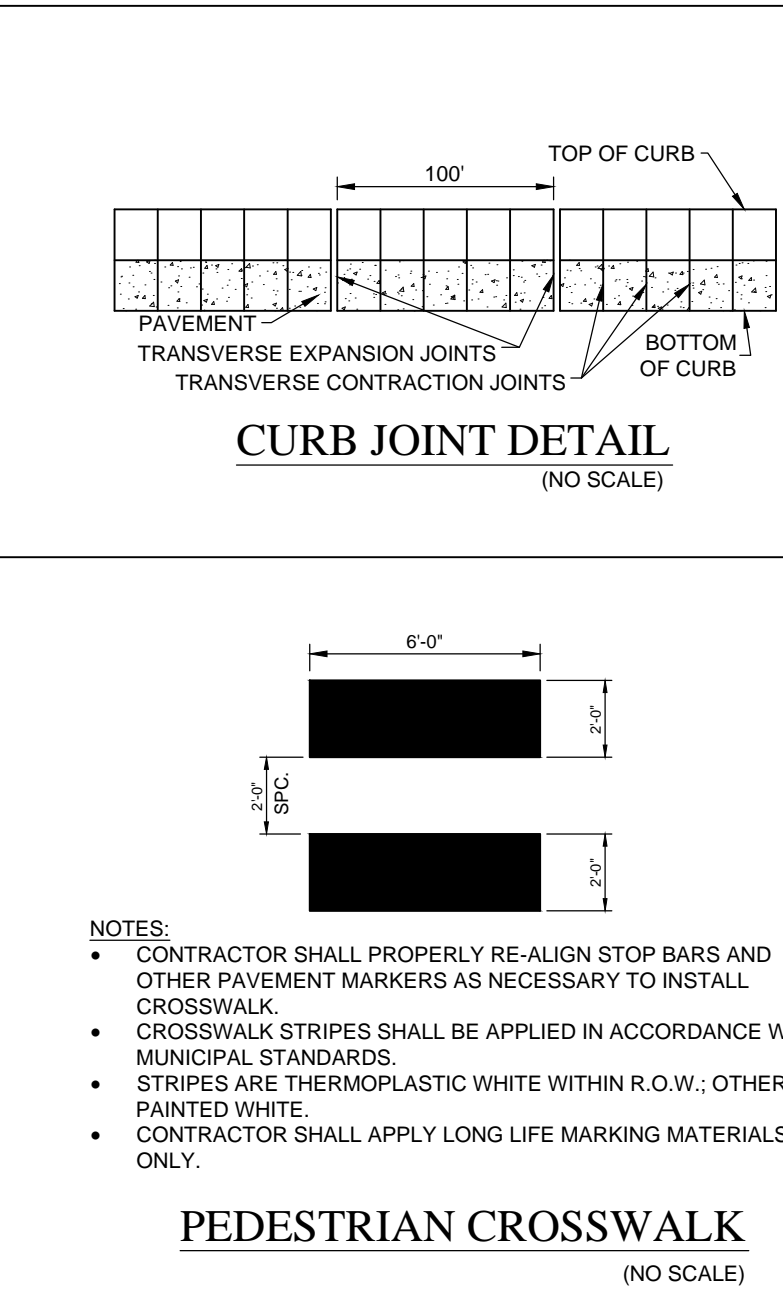
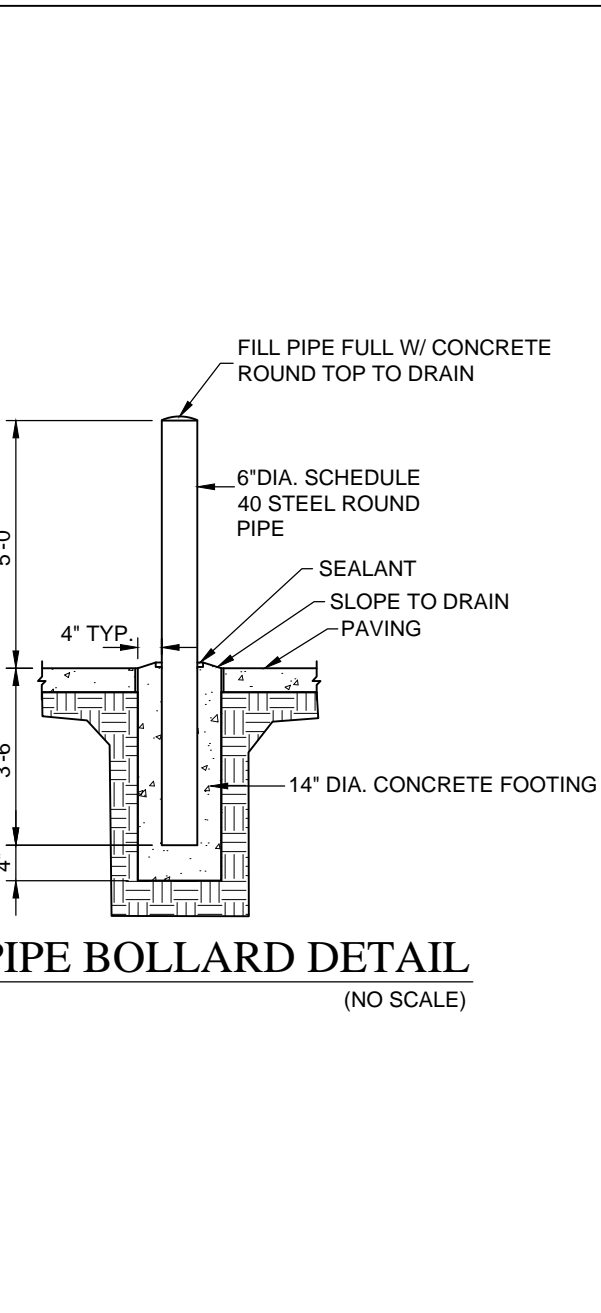
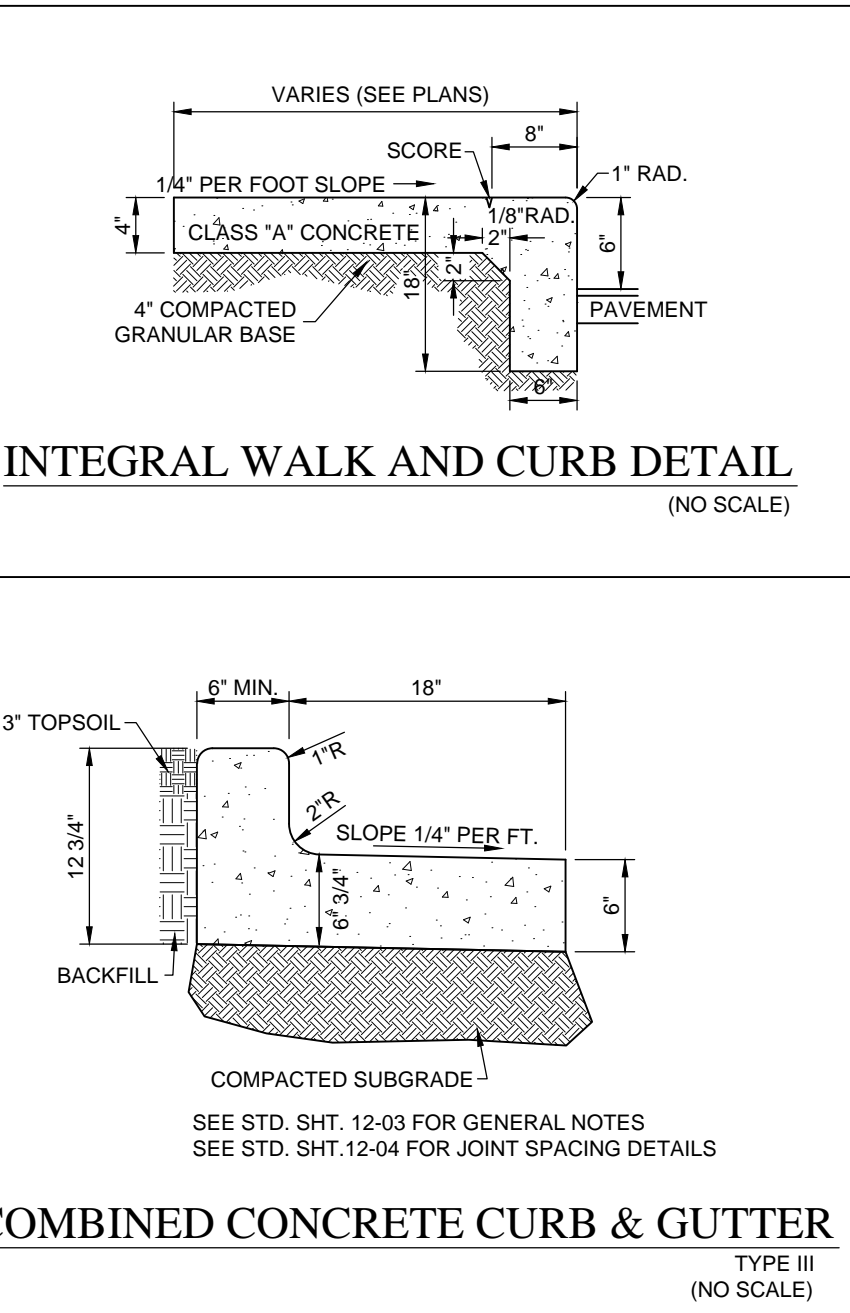
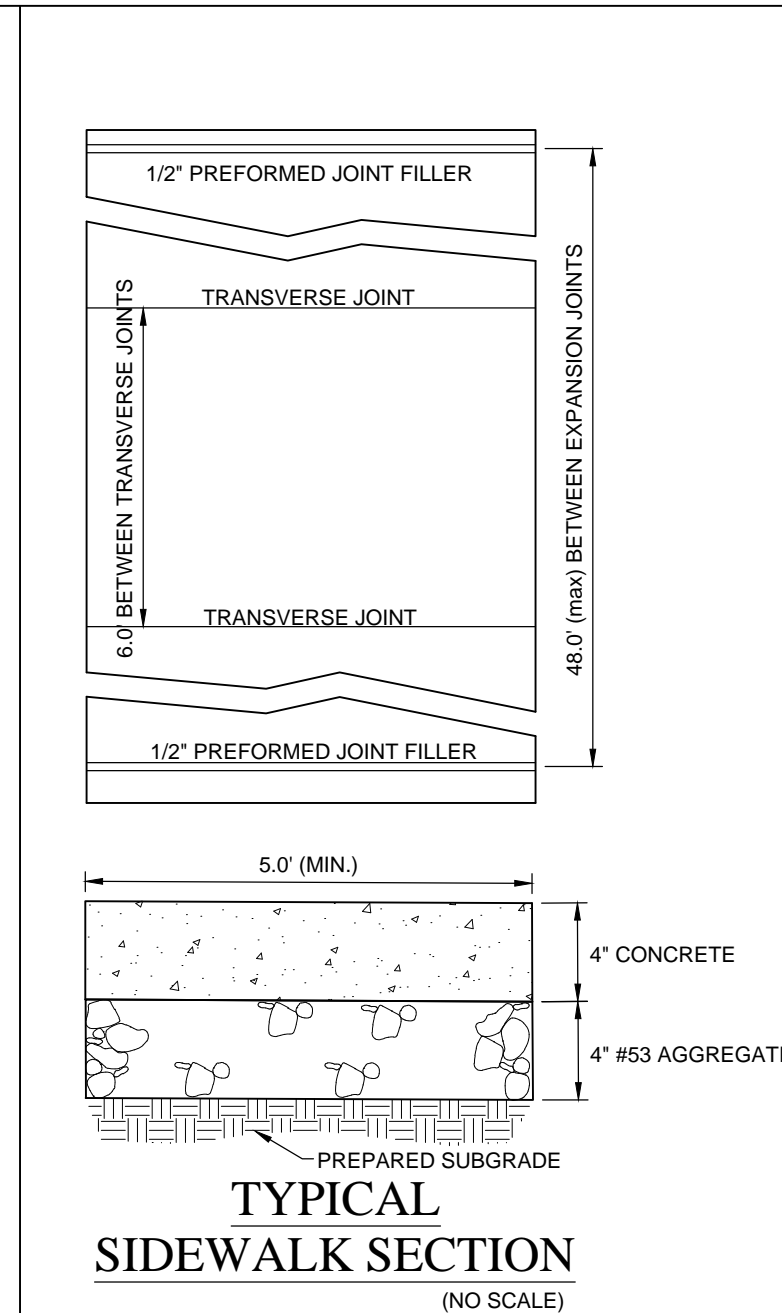
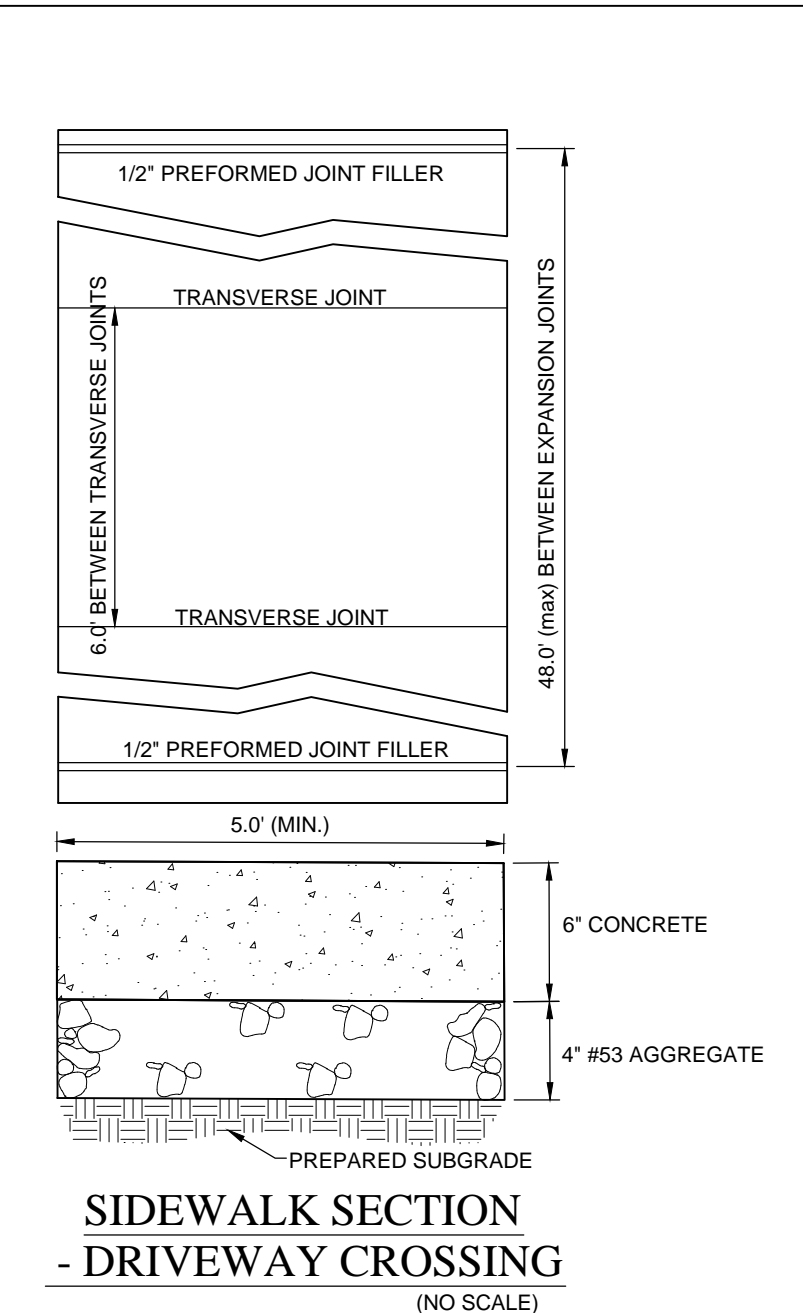
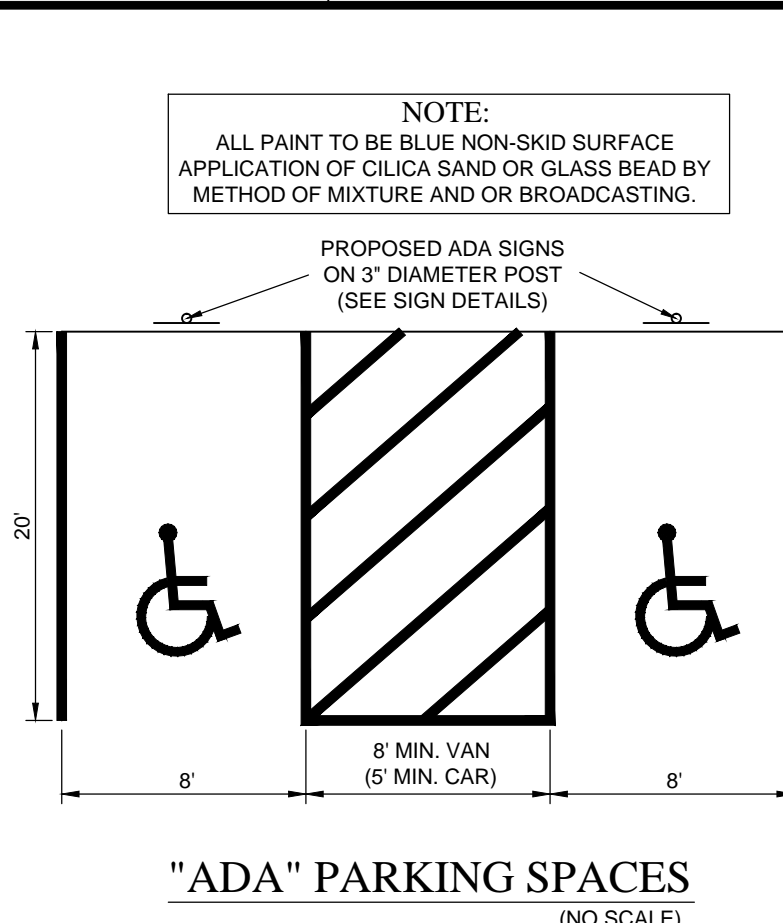
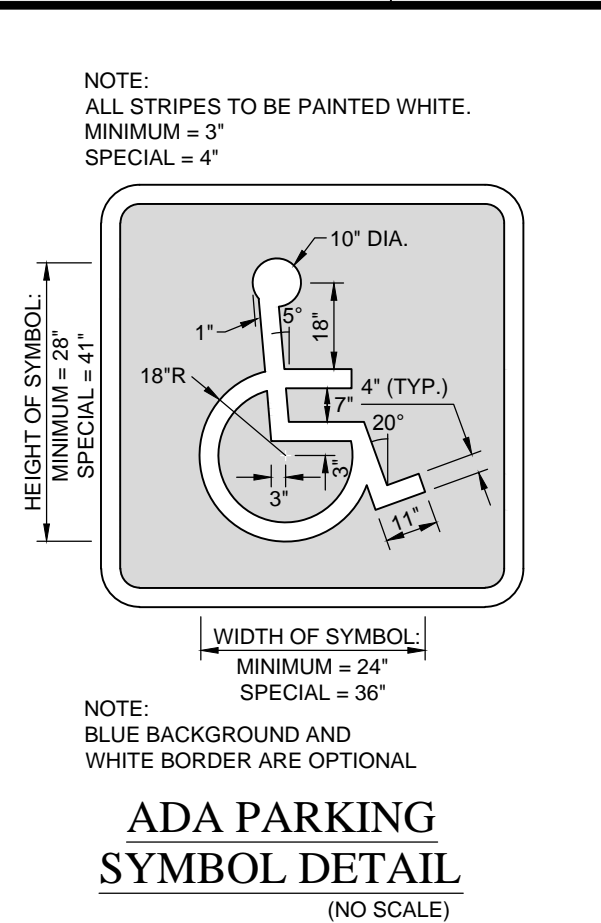
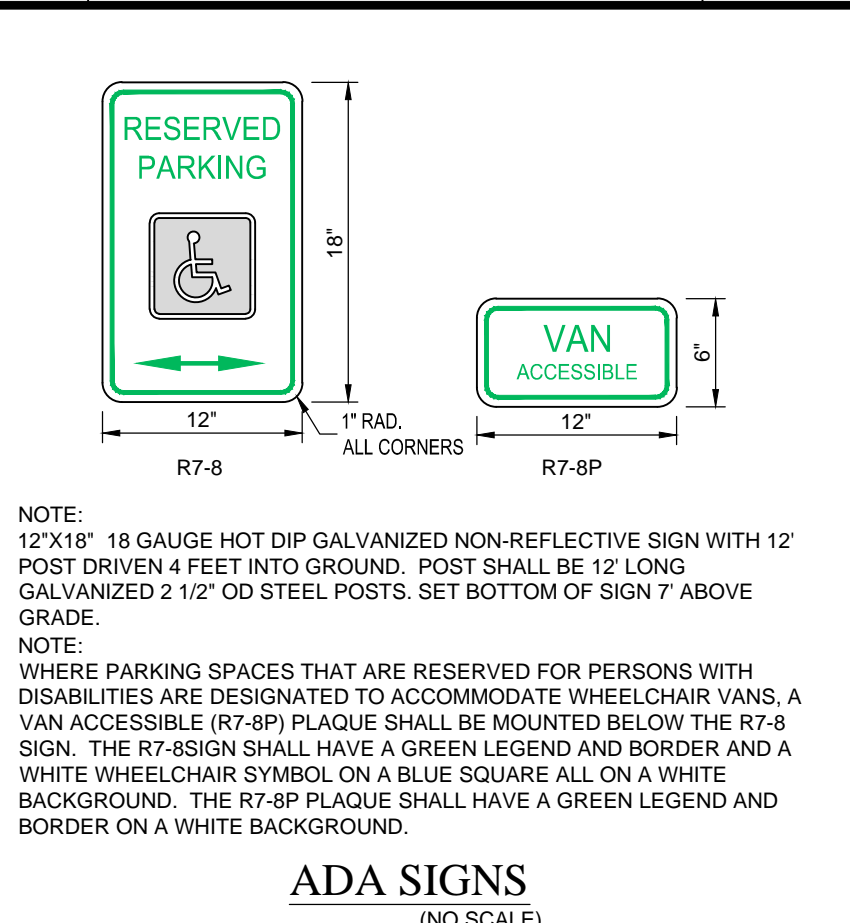
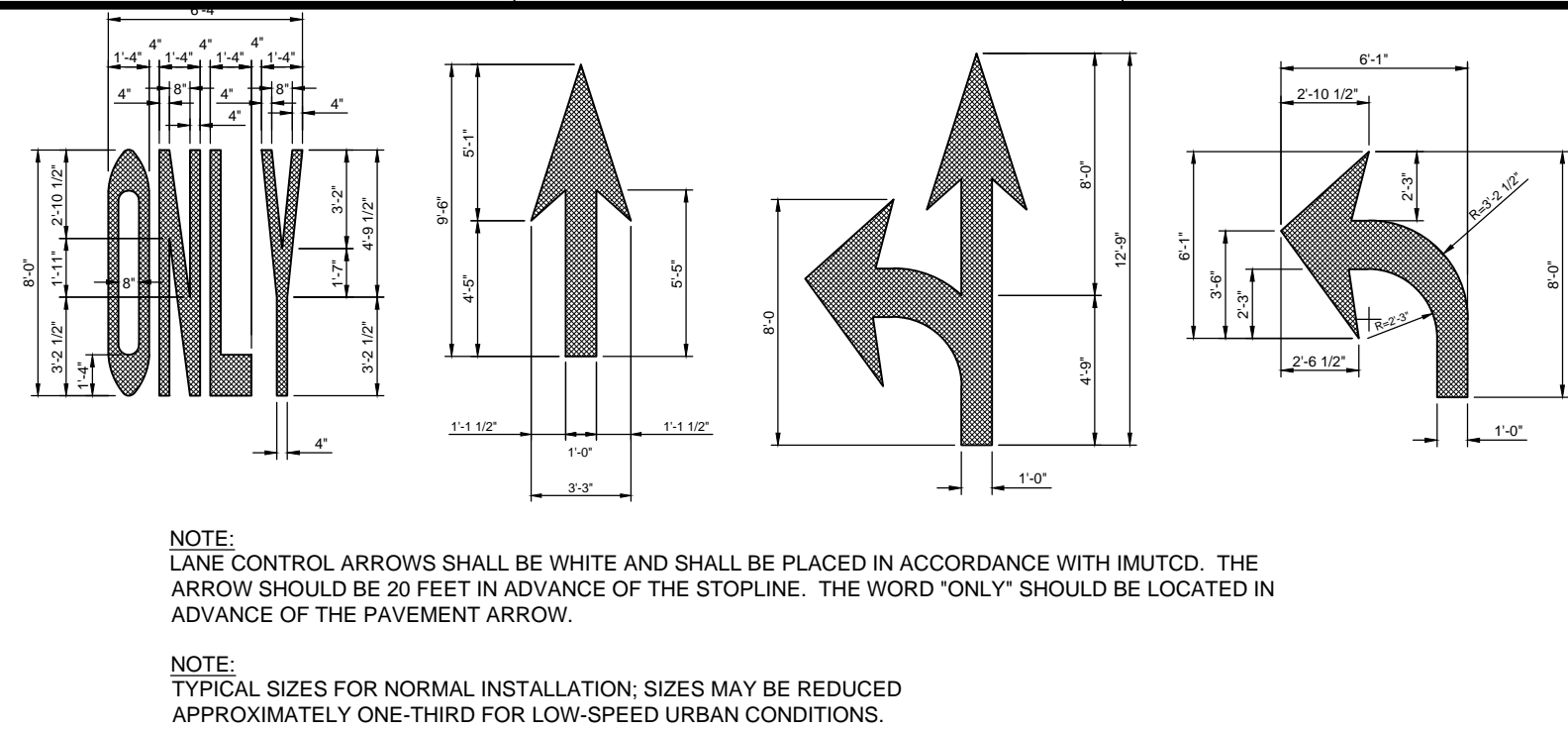
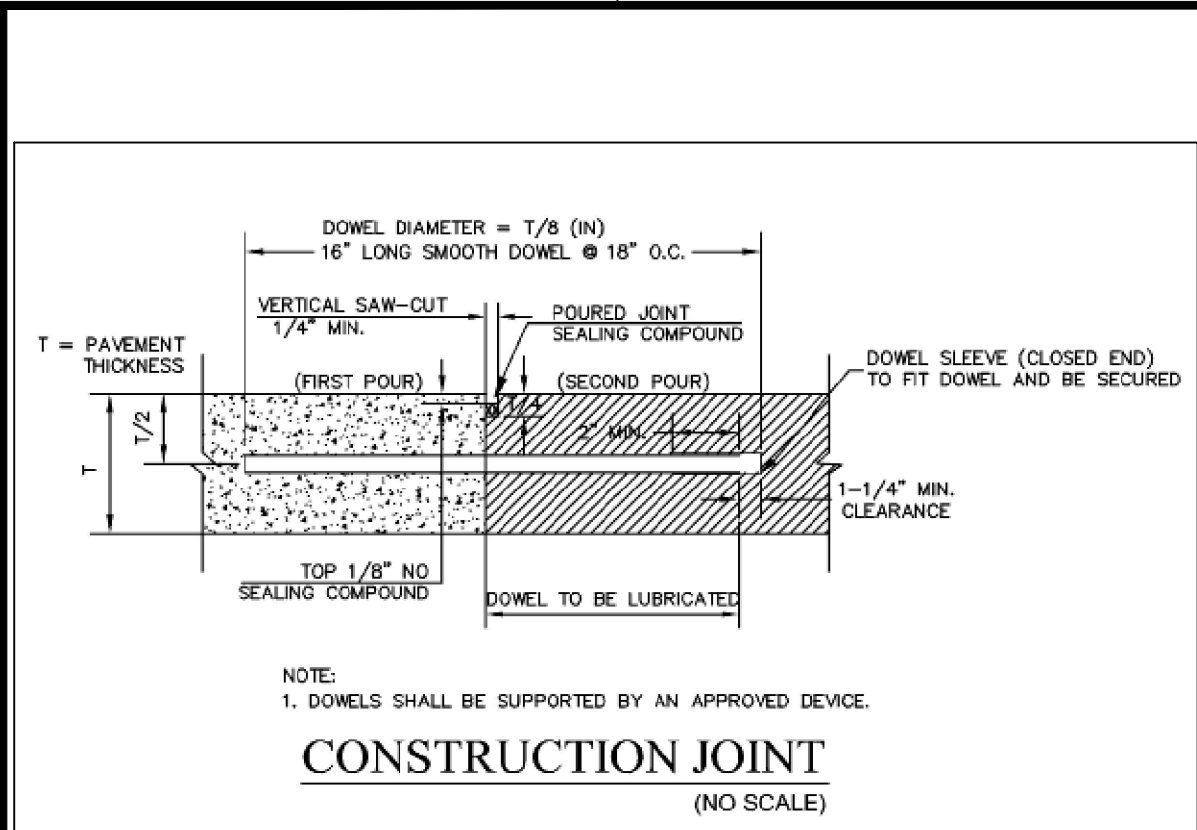
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DWO NAME: W150351-C104 Storm Prevention Plan
DESIGNER: BUSRAM
DRAWN BY: RAM
CHECKED BY: BUS
DATE: 03/17/2016

DATE: 03/17/2016
BY: BUS
REVISIONS AND ISSUES
CITY SUBMITTAL

STEVEN SCOTT RUCKER P.E. 11390279
REGISTERED PROFESSIONAL ENGINEER
STATE OF INDIANA
NOTARY PUBLIC

PREPARED FOR:
IN FRANKLIN
MORTON, LLC
xxx NORTH MORTON STREET, FRANKLIN, IN 46131
STORMWATER POLLUTION PREVENTION PLAN DETAILS
Part of the NEI-12 North Range 4 East Franklin Township, Johnson County, Indiana

SHEET NO.
C105
PROJECT NO.
W15.0351



15055 N. College Avenue
Indianapolis, Indiana 46280
weihe.net

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317 | 843 - 0546 fax

ALLAN H. WEIHE, P.E., L.S. - FOUNDER

WEIHE
ENGINEERS

Land Surveying | Civil Engineering
Landscape Architecture

PROJECT NO.: W15.0351
DWG NAME: W150351-C201 Site del.dwg
DATE: 03/17/2016
BY: BJS
CITY SUBMITTAL

REVISIONS AND ISSUES

STEVEN SCOTT RUCKER, P.E.
REGISTERED PROFESSIONAL ENGINEER
PE # 1300279
STATE OF INDIANA
NOT A PROFESSIONAL ENGINEER

STEVEN SCOTT RUCKER, P.E. 11300279

PREPARED FOR:
IN FRANKLIN
MORTON, LLC

xxx NORTH MORTON STREET, FRANKLIN, IN 46131

SITE DETAILS

811

Know what's below.
Call before you dig.

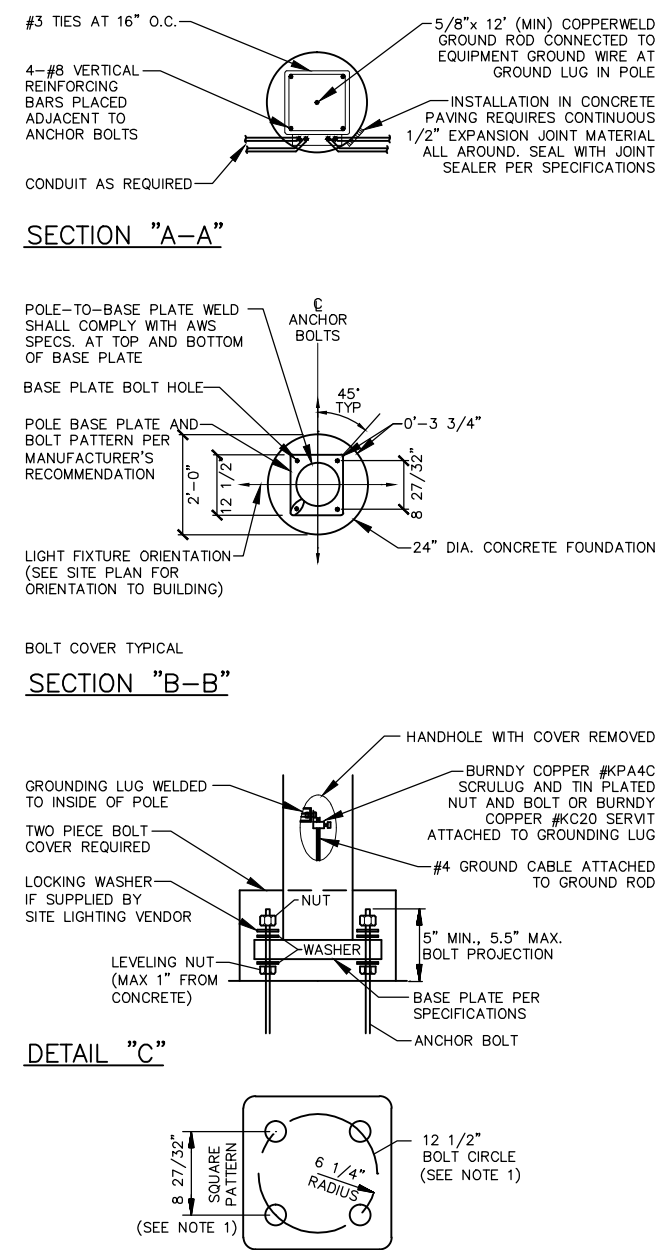
Within Indiana Call
811 or 800-382-5544
24 Hours a Day, 7 Days a Week.

PER INDIANA STATE LAW (C. 8-1-26,
IT IS AGAINST THE LAW TO EXCAVATE
WITHOUT NOTIFYING THE UNDERGROUND
LOCATION SERVICE TWO (2) WORKING
DAYS BEFORE COMMENCING WORK.

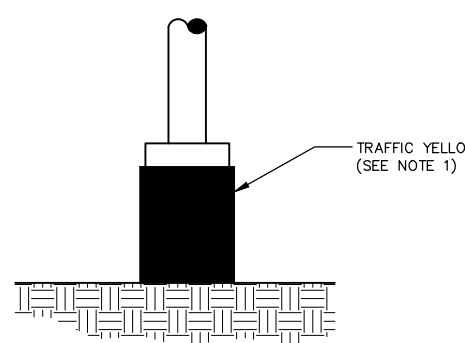
SHEET NO.
C201

PROJECT NO.
W15.0351

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DATE/TIME: March 17, 2016 - 12:16pm
PLOTTED BY: schaeffs



TYPICAL LIGHTING POLE BASE DETAIL
(NO SCALE)



LIGHT BASE DETAIL
(NO SCALE)



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LOCATION SERVICE TWO (2) WORKING
DAYS BEFORE COMMENCING WORK.

PREPARED FOR:
IN FRANKLIN
MORTON, LLC

xxx NORTH MORTON STREET, FRANKLIN, IN 46131

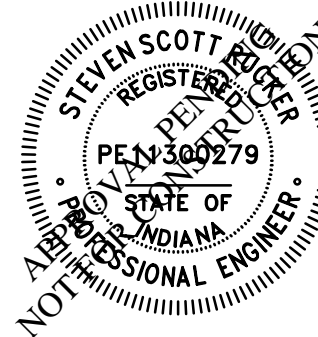
SITE DETAILS

SHEET NO.

C202

PROJECT NO.

W15.0351



STEVEN SCOTT RUCKER P.E. 11300279

REVISIONS AND ISSUES

DATE: 03.17.2016

BY: BJS

PROJECT NO.: W15.0351

DWG NAME: W150351-C201 site det.dwg

DRAWN BY: BJS

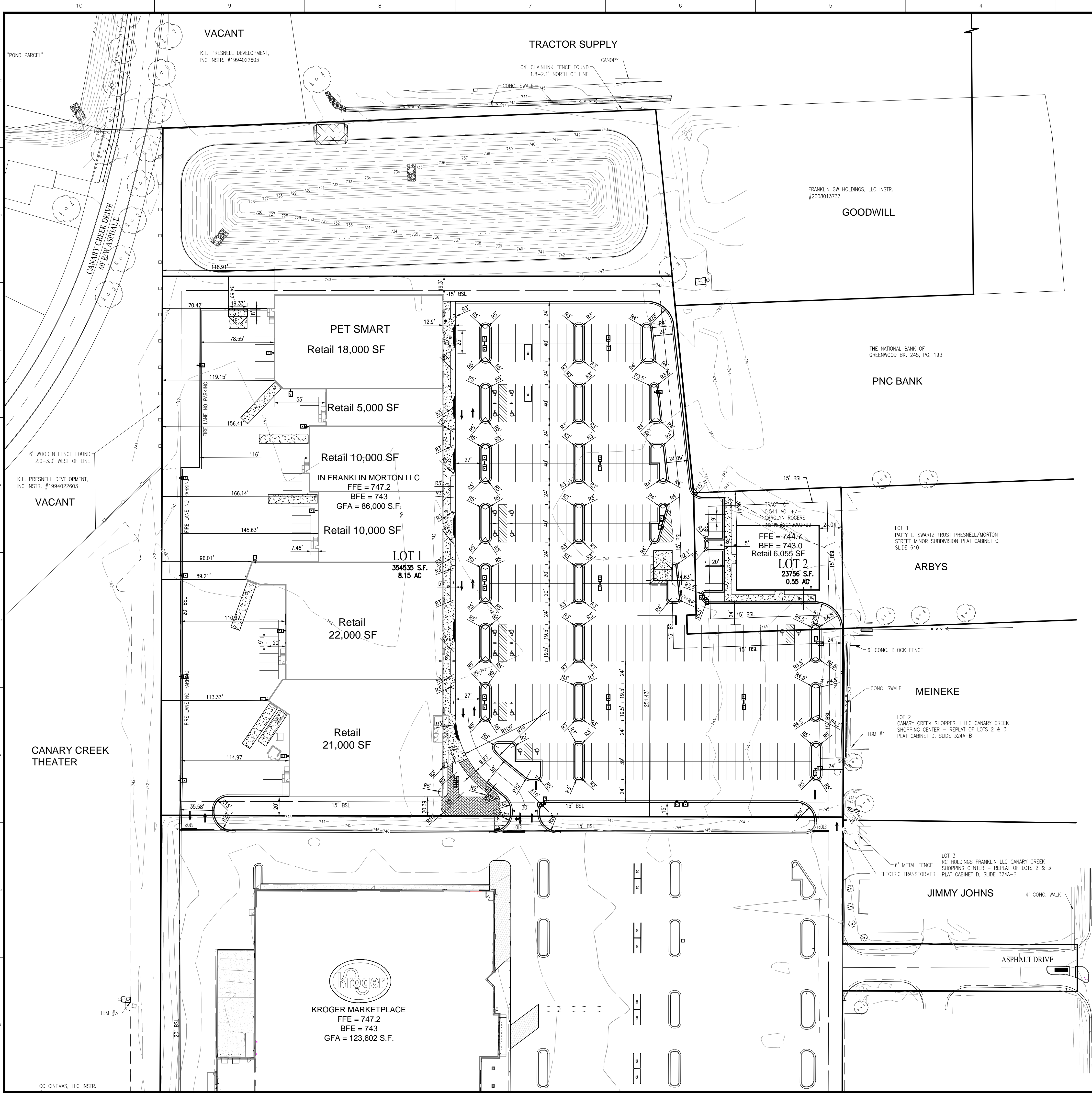
CHECKED BY: RAM

DATE: 03.17.2016

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ALLAN H. WEIHE, P.E., L.S. - FOUNDER

LOCATION: H:\2016\W150351\Engineering\Design\Consent\W150351-C210 DM.dwg
DATE/TIME: March 17, 2016 - 12:05pm
PLOTTER: b7i_eohorff



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 C201, AND C202 FOR SITE PLAN DETAILS UNLESS OTHERWISE NOTED.

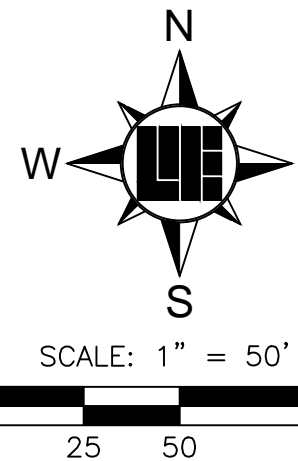
SITE PLAN LEGEND

- EXISTING SIGN
- MB MAILBOX
- ⊙ EXISTING LIGHT
- ⊙ BOL EXISTING BOLLARD
- GP GATE POST
- ⊠ TRANSFORMER
- RIGHT-OF-WAY LINE
- RIGHT-OF-WAY
- FINISH FLOOR ELEVATION
- ⊠ PARKING COUNT
- ⊠ ADA PARKING
- BSL BUILDING SETBACK LINE
- EASEMENT
- DRAINAGE AND UTILITY EASEMENT
- 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 IN FRANKLIN MORTON, LLC SITE WERE PREPARED BY WEIHE ENGINEERS, INC. AND STEVEN SCOTT RUCKER. FINAL CONSTRUCTION PLANS ARE THOSE PLANS CONTAINING A FINAL REVISION DATE AFTER 03/17/2016. WEIHE ENGINEERS, INC. AND STEVEN SCOTT RUCKER ACCEPT RESPONSIBILITY ONLY FOR THE IN FRANKLIN MORTON, LLC SITE IMPROVEMENTS RELATED TO THE ENGINEERING WORK SHOWN ON THESE PLANS.



Within Indiana Call
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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.: W15.0351
DWG NAME: W150351-C210 DM.dwg
DESIGNED BY: BUSRAM
DRAWN BY: RAM
CHECKED BY: BUS
DATE: 03.17.2016

REVISIONS AND ISSUES
CITY SUBMITTAL

STEVEN SCOTT RUCKER
REGISTERED PROFESSIONAL ENGINEER
PE # 1000279
STATE OF INDIANA
NOTARY PUBLIC

STEVEN SCOTT RUCKER P.E. 11300279

PREPARED FOR:
IN FRANKLIN MORTON, LLC

xxx NORTH MORTON STREET, FRANKLIN, IN 46131

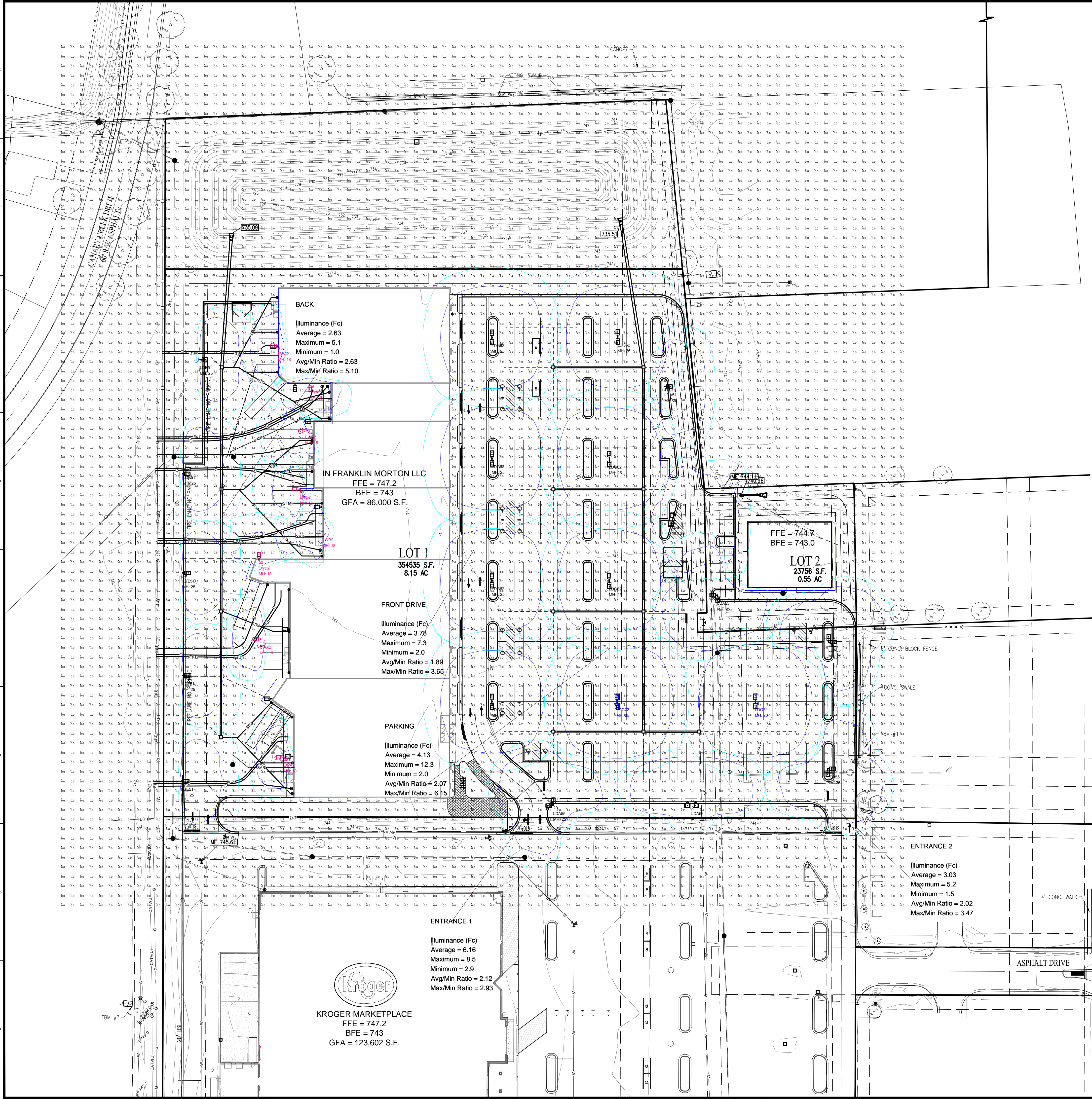
DIMENSION PLAN

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

SHEET NO.
C203

PROJECT NO.
W15.0351

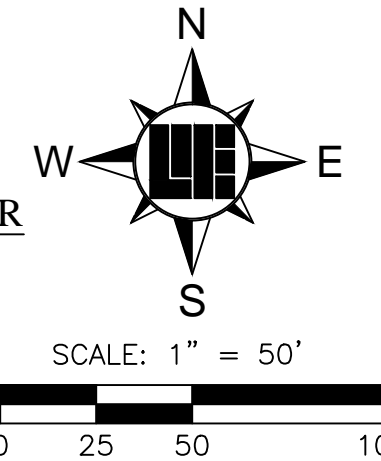
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DATE/TIME: March 17, 2016 - 12:11pm
PLOTTER: b7i schaeffs



Luminaire Location Summary						
LumNo	Label	X	Y	Z	Orient	Tilt
1	LDG62	468.602	603.837	25	90	0
2	LDG62	468.602	476.837	25	90	0
3	LDG62	468.602	348.837	25	90	0
4	LDG62	468.602	221.837	25	90	0
5	LDG62	600.533	604.354	25	90	0
6	LDG62	591.598	476.384	25	90	0
7	LDG62	591.533	348.578	25	90	0
8	LDG72	599.468	221.966	25	90	0
15	LDG72	744.646	222.036	25	90	0
17	LDB52	657.244	413.105	25	0	0
18	LDA51	649.71	552.19	25	0	0
19	LDA55	705.071	333.516	25	225	0
20	LDA55	533.144	112.99	25	135	0
21	LDA52	677.909	112.989	25	90	0
25	LDA55	820.67	151.364	25	315	0
26	LDA55	821.689	284.272	25	45	0
27	LDE51	162.648	580.763	25	0	0
28	LDE51	145.005	465.46	25	0	0
29	LDE51	144.32	356.811	25	0	0
30	LDE51	144.165	249.182	25	0	0
31	LDE51	143.039	138.41	25	0	0
32	LWA2	250.595	163.694	18	180	0
46	LWB2	273.104	507.963	18	207.733	0
48	LWA2	244.558	595.247	18	180	0
49	LWA2	277.505	555.178	18	270	0
51	LWB2	291.231	400.097	18	180	0
52	LWA2	225.932	287.512	18	180	0
53	LWB2	224.33	370.459	18	90	0
54	LWB2	267.43	444.701	18	180	0

* SITE LIGHTING AND PHOTOMETRICS FOR
REALTYLINK ARE PROVIDED BY:

EATON APPLICATIONS ENGINEERING
1121 HIGHWAY 74 SOUTH
PEACHTREE CITY, GA 30269



Within Indiana Call
811 or 800-382-5544
24 Hours a Day, 7 Days a Week.

PER INDIANA STATE LAW (C.R. 1-26,
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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

WEIHE
ENGINEERS

Land Surveying | Civil Engineering
Landscape Architecture

PROJECT NO.: W15.0351
DWG NAME: W150351-C220 Light.dwg
DESIGNED BY: BUSRAM
DRAWN BY: RAM
CHECKED BY: BUS
DATE: 03.17.2016

DATE: 03.17.2016
BY: BUS
CITY SUBMITTAL

REVISIONS AND ISSUES

STEVEN SCOTT RUCKER P.E. 11300279
REGISTERED PROFESSIONAL ENGINEER
STATE OF INDIANA
NOTES: PROFESSIONAL ENGINEER

STEVEN SCOTT RUCKER P.E. 11300279

PREPARED FOR:
IN FRANKLIN
MORTON, LLC

xxx NORTH MORTON STREET, FRANKLIN, IN 46131

LIGHTING PLAN

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

SHEET NO.
C204

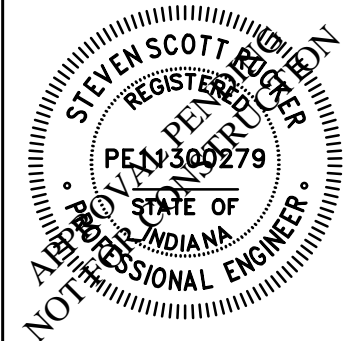
PROJECT NO.
W15.0351

The WATON logo is displayed in a large, bold, blue sans-serif font. The letters are thick and closely spaced, with the 'O' being a solid circle. The logo is positioned at the bottom center of the page, below the 'WATON' text and the 'WATON' text.

Calculation Summary

Luminaire Schedule

PROJECT NO.:	W15.0351
DWG NAME:	w150351-c220 light.dwg
DESIGNED BY:	BJS/AM
DRAWN BY:	RAM
CHECKED BY:	BJS
DATE:	03.47.2016



STEVEN SCOTT RUCKER P.E. 1130027

PREPARED FOR:
**IN FRANKLIN
MORTON, LLC**

xxx NORTH MORTON STREET, FRANKLIN, IN 46131

LIGHTING PLAN

Part of the NE1st of Section 15, Township 12 North, Range 4 East, Franklin Township, Johnson County, Indiana

SHEET NO.

C205

PROJECT NO.

W/15 0351



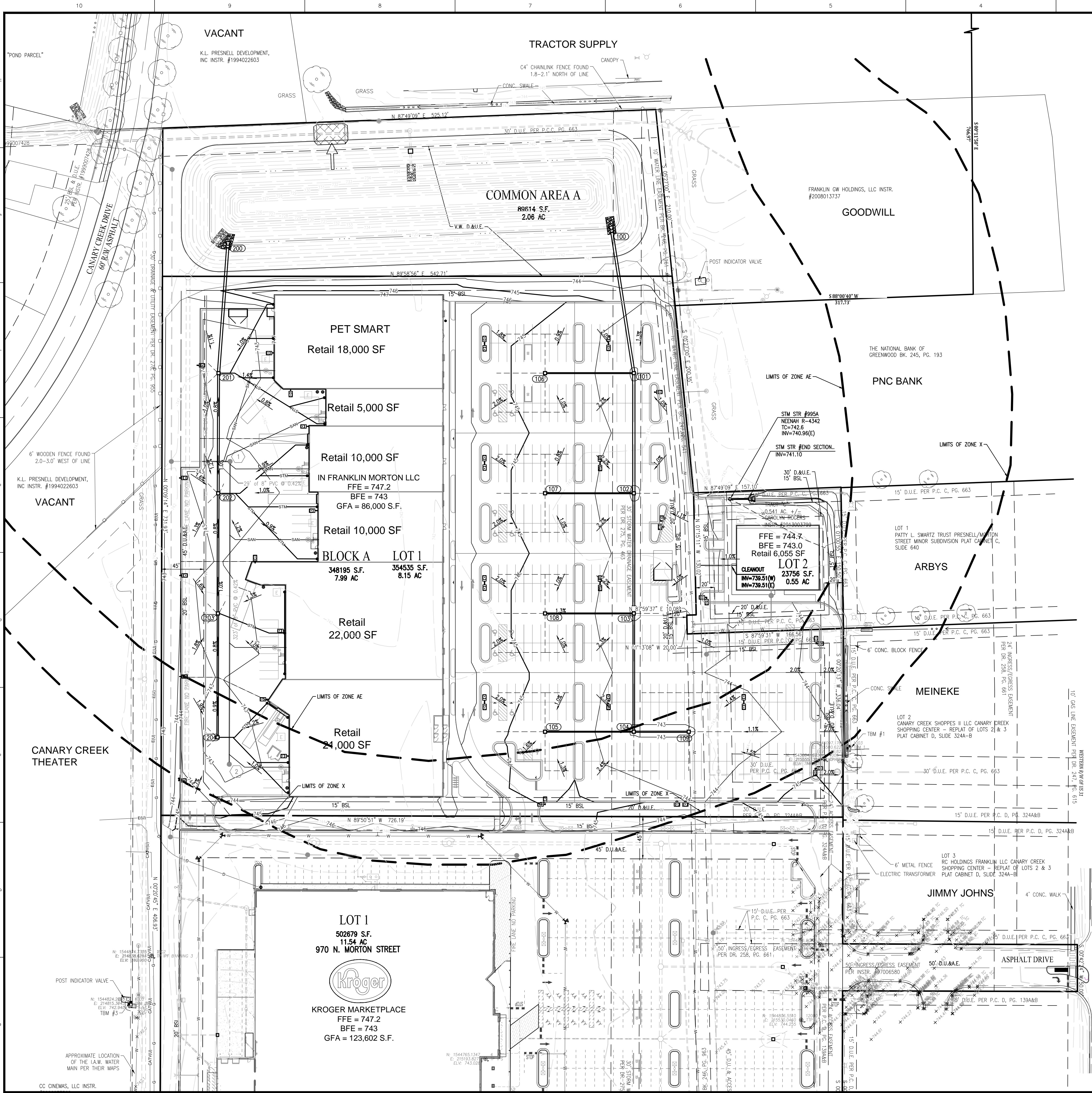
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DAYS BEFORE COMMENCING WORK.

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EATON APPLICATIONS ENGINEERING
1121 HIGHWAY 74 SOUTH
PEACHTREE CITY, GA 30269



GENERAL GRADING NOTES

- 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.
- 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 MATERIALS SHALL BE SUCH TO ACHIEVE SPECIFIED COMPACTION DENSITY AS SPECIFIED IN SPECIFICATION SECTION 312000 EARTH MOVING. FIELD COMPACTION 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.
- MAXIMUM LAWN SLOPE IS 3:1.
- 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.
- ALL SPOT ELEVATIONS ARE TO FINISHED GRADE.
- COMPACTED 18" BORROW BACK FILL REQ'D. OVER ALL UTILITIES IN PAVED AREAS.
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- 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.
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- 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.
- ALL HDPE PIPE SHALL BE DUAL WALLED, HANCOR HQ, ADS N-12 PIPE OR APPROVED EQUAL
- ALL FITTINGS AND ACCESSORIES INCLUDING BUT NOT LIMITED TO END CAPS, CLEANOUTS, REDUCERS, ETC., SHALL BE OF HDPE MATERIAL COMPARABLE WITH STORAGE PIPES
- VERIFY EXISTING STORM INVERT ELEVATIONS PRIOR TO STARTING NEW STORM SEWER CONNECTION
- THE SITE DOES LIE IN A SPECIAL FLOOD HAZARD AREA 'X' 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

- EXIST. FIRE HYDRANT
- EXIST. WATER METER/VALVE
- EXIST. SIGN
- EXIST. MONITOR WELL
- EXIST. IRON PIN & OR PK (SET/FOUND)
- EXIST. GAS METER
- EXIST. GAS VALVE
- EXIST. STORM INLET
- EXIST. STORM/SAN/TELE. MANHOLE
- EXIST. ELECTRIC METER
- EXIST. POWER POLE/POWER POLE W/ LIGHT
- EXIST. GUY ANCHOR
- EXIST. TELEPHONE PEDESTAL
- HVAC UNIT
- CLEANOUT
- MAILBOX
- LIGHT POLE
- EXIST. BOLLARD
- EXIST. SANITARY SEWER LINE
- EXIST. STORM SEWER LINE
- EXIST. CONTOURS
- CONCRETE END SECTION (C.E.S.)
- GATE POST
- TRANSFORMER
- RIGHT-OF-WAY LINE
- PROPOSED SANITARY SEWER LINE
- PROPOSED STORM SEWER LINE
- PROPOSED HDPE ROOF DRAIN
- PROPOSED PIPE BOLLARD
- PROPOSED MANHOLE (MH)
- PROPOSED CONTOURS
- PROPOSED ELEVATION
- DRAINAGE FLOW ARROW
- EXISTING TREE LINE
- PROPOSED DIRECTIONAL SIGN
- FINISH FLOOR ELEVATION
- TOP OF (MANHOLE / INLET) CASTING
- INVERT ELEVATION
- STRUCTURE
- STR.
- M.E.G. OR M.E.
- TOW OR TW
- SSD
- GUT
- WATER LINE
- GAS LINE
- OVERHEAD UTILITY LINE
- TELEPHONE LINE
- ELECTRIC LINE
- TEMPORARY BENCHMARK
- PARKING COUNT
- EMERGENCY FLOOD ROUTE

EXISTING AREAS

PERVIOUS	=	0.20	AC.
IMPERVIOUS	=	0.04	AC.

PROPOSED AREAS

PERVIOUS	=	1.31	AC.
IMPERVIOUS	=	7.37	AC.

BENCHMARK INFORMATION

BENCHMARK INFORMATION
DNR TBM CD 1, 1988 IN JOHNSON COUNTY, FRANKLIN QUADRANGLE, IN THE NE 1/4 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 (751.893 FEET N.A.V.D. 1988)

TBM #1 ELEV: 745.81 CUT SQUARE ON TOP OF 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.

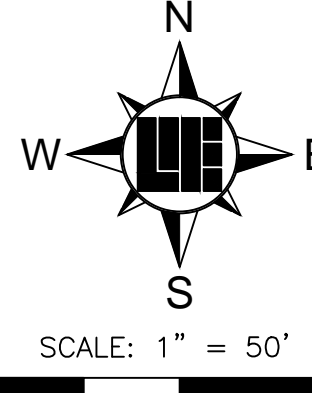
POND

N.P.	=	735.50
2 YR.	=	739.52
10 YR.	=	740.76
100 YR.	=	741.97
SPILLWAY	=	742.00
BOTTOM	=	726.00
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 IN FRANKLIN MORTON, LLC SITE WERE PREPARED BY WEIHE ENGINEERS, INC. AND STEVEN SCOTT RUCKER. FINAL CONSTRUCTION PLANS ARE THOSE PLANS CONTAINING A FINAL REVISION DATE AFTER 03/17/2016. WEIHE ENGINEERS, INC. AND STEVEN SCOTT RUCKER ACCEPT RESPONSIBILITY ONLY FOR THE IN FRANKLIN MORTON, LLC SITE IMPROVEMENTS RELATED TO THE ENGINEERING WORK SHOWN ON THESE PLANS.



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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.: W15.0351
DWD NAME: W150351-C300_grad.dwg
DESIGNED BY: BSJ
DRAWN BY: RAM
CHECKED BY: BSJ
DATE: 03.17.2016

REVISIONS AND ISSUES
CITY SUBMITTAL

STEVEN SCOTT RUCKER, P.E. 11300279
REGISTERED PROFESSIONAL ENGINEER
STATE OF INDIANA
NOT A PROFESSIONAL ENGINEER

PREPARED FOR:
IN FRANKLIN MORTON, LLC

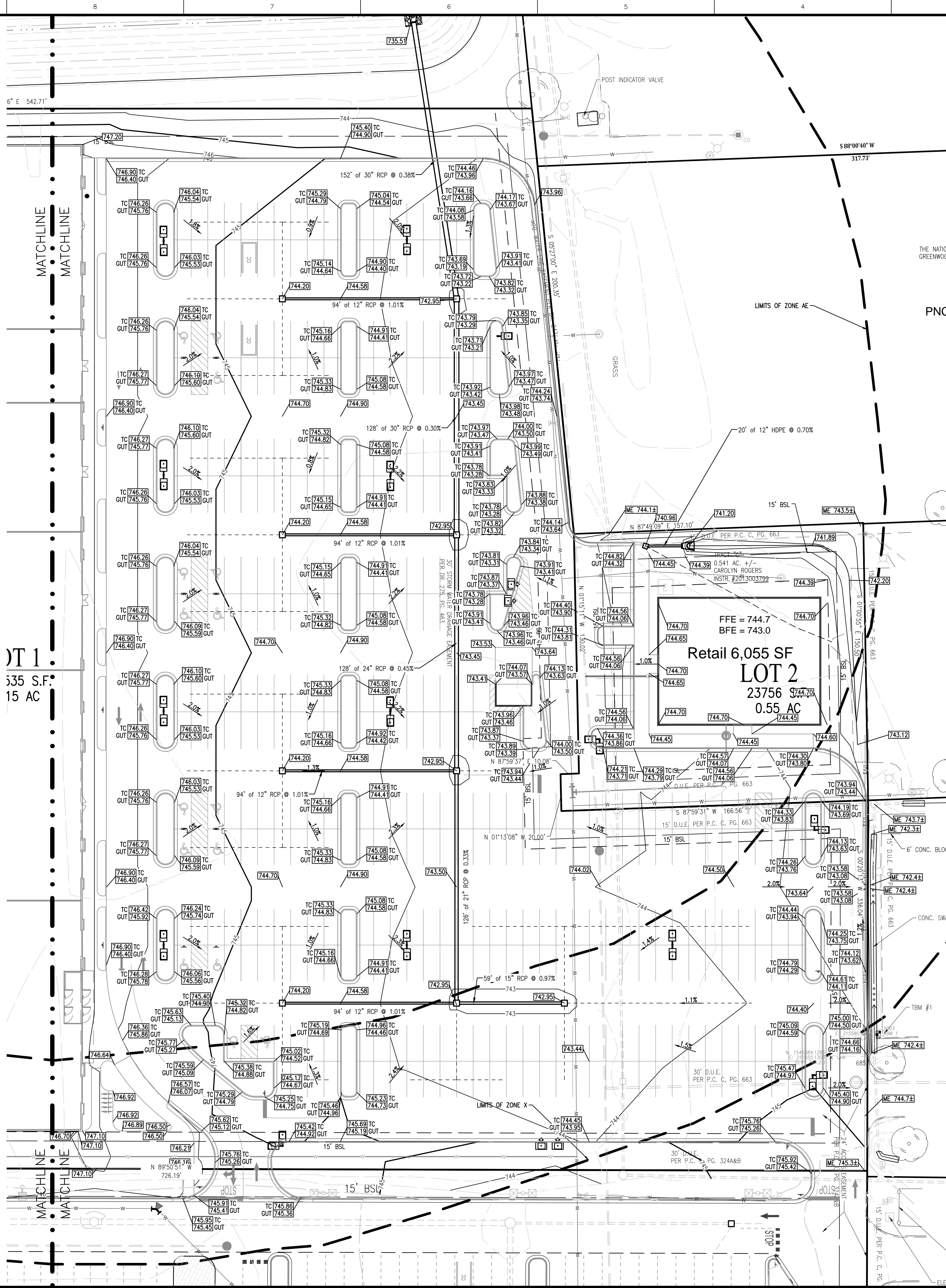
xxx NORTH MORTON STREET, FRANKLIN, IN 46131

GRADING PLAN

SHEET NO.
C300

PROJECT NO.
W15.0351

LOCATION: H:\2016\W150351\Engineering\design\conset\W150351-C300_grading_enlarged.dwg
DATE/TIME: March 17, 2016 - 12:54pm
PLOTTER: B7 - engpro



GENERAL GRADING NOTES

- 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.
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- MAXIMUM LAWN SLOPE IS 3:1.
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- 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 18" DEEP SHALL BE CUT OUT AND CORRECTED TO POSITIVE DRAINAGE AT NO COST TO THE OWNER/DEVELOPER/ OR ENGINEER.
- 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.
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- ALL HDPE PIPE SHALL BE DUAL WALLED, HANCOR HQ, ADS N-12 PIPE OR APPROVED EQUAL.
- ALL FITTINGS AND ACCESSORIES INCLUDING BUT NOT LIMITED TO END CAPS, CLEANOUTS, REDUCERS, ETC., SHALL BE OF HDPE MATERIAL COMPARABLE WITH STORAGE PIPES.
- PROVIDE BACKFILL WITH A MINIMUM OF 4' BEDDING MATERIAL OF #6 AGGREGATE COMPACTED IN 8" LIFTS TO 95% MAXIMUM DRY DENSITY.
- VERIFY EXISTING STORM INVERT ELEVATIONS PRIOR TO STARTING NEW STORM SEWER CONNECTION.
- THE SITE DOES LIE IN A SPECIAL FLOOD HAZARD AREA 'X' 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.

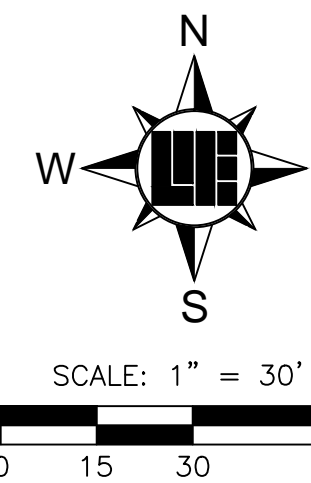
LEGEND

- | | |
|--|---|
| | = EXIST. FIRE HYDRANT |
| | = EXIST. WATER METER VALVE |
| | = EXIST. SIGN |
| | = EXIST. MONITOR WELL |
| | = EXIST. GAS METER |
| | = EXIST. GAS VALVE |
| | = EXIST. STORM INLET |
| | = EXIST. STORM/SAN/TELE. MANHOLE |
| | = EXIST. ELECTRIC METER |
| | = EXIST. POWER POLE/POWER POLE W/ LIGHT |
| | = EXIST. GUY ANCHOR |
| | = EXIST. TELEPHONE PEDESTAL |
| | = HVAC UNIT |
| | = CLEANOUT |
| | = MAILBOX |
| | = LIGHT POLE |
| | = EXIST. BOLLARD |
| | = EXIST. SANITARY SEWER LINE |
| | = EXIST. STORM SEWER LINE |
| | = EXIST. CONTOURS |
| | = CONCRETE END SECTION (C.E.S.) |
| | = GATE POST |
| | = TRANSFORMER |
| | = RIGHT-OF-WAY LINE |
| | = PROPOSED SANITARY SEWER LINE |
| | = PROPOSED STORM SEWER LINE |
| | = PROPOSED HDPE ROOF DRAIN |
| | = PROPOSED PIPE BOLLARD |
| | = PROPOSED MANHOLE (MH) |
| | = PROPOSED CONTOURS |
| | = PROPOSED ELEVATION |
| | = DRAINAGE FLOW ARROW |
| | = EXISTING TREE LINE |
| | = PROPOSED DIRECTIONAL SIGN |
| | = FINISH FLOOR ELEVATION |
| | = TOP OF (MANHOLE / INLET) CASTING |
| | = INVERT ELEVATION |
| | = REINFORCED CONCRETE PIPE |
| | = CORRUGATED METAL PIPE |
| | = POLYVINYL CHLORIDE PIPE |
| | = HIGH DENSITY POLYETHYLENE FLOW LINE |
| | = STRUCTURE |
| | = MATCH EXISTING GRADE |
| | = TOP OF WALL |
| | = SUB-SURFACE DRAINAGE |
| | = TOP OF CURB |
| | = GUTTER |
| | = WATER LINE |
| | = GAS LINE |
| | = OVERHEAD UTILITY LINE |
| | = TELEPHONE LINE |
| | = ELECTRIC LINE |
| | = TEMPORARY BENCHMARK |
| | = PARKING COUNT |
| | = EMERGENCY FLOOD ROUTE |

PLAN CERTIFICATE NOTE:

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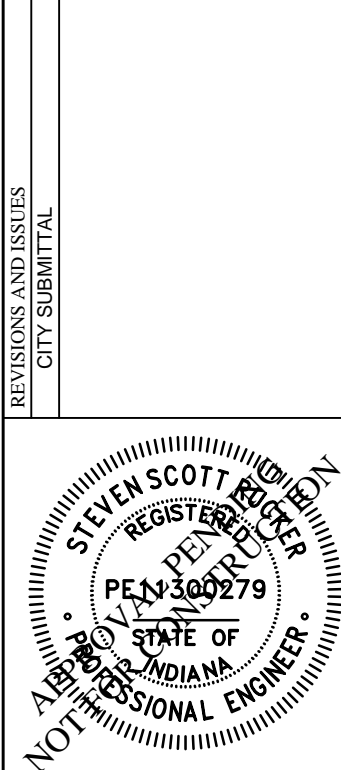
ALLAN H. WEIHE, P.E., L.S. - FOUNDER

WEIHE
ENGINEERS

Land Surveying | Civil Engineering
Landscape Architecture

PROJECT NO.:	W15.0351
DWG NAME:	W150351-C300 grading enlargement
DRAWN BY:	BUSRAM
CHECKED BY:	RAM
DATE:	BUS 03/17/2016

DATE:	03/17/2016
BY:	BUS
REVISIONS AND ISSUES:	CITY SUBMITTAL



STEVEN SCOTT RUCKER P.E. 13900279

PREPARED FOR:
IN FRANKLIN MORTON, LLC
xxx NORTH MORTON STREET, FRANKLIN, IN 46131

ENLARGED GRADING PLAN

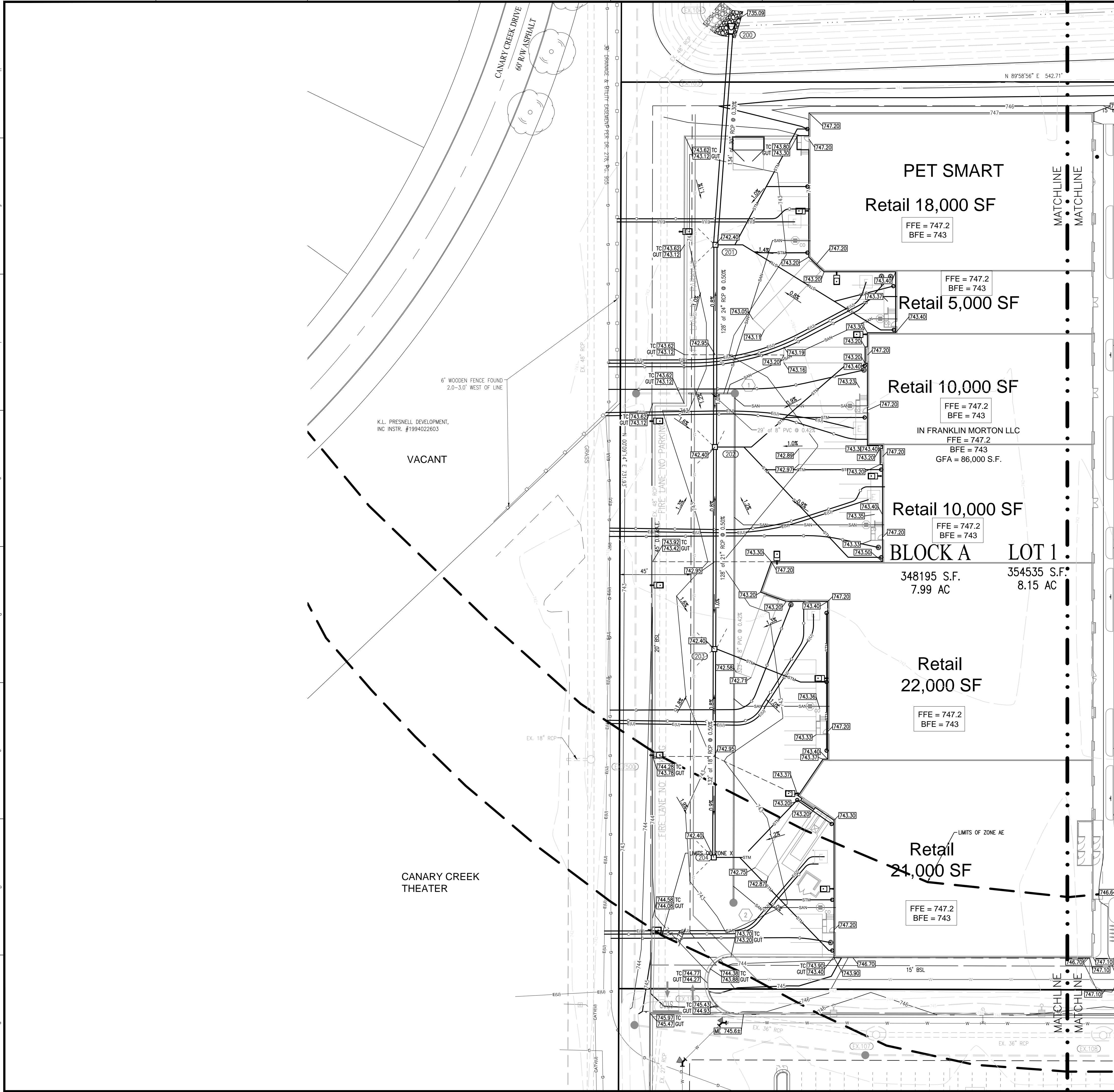
SHEET NO.

C301

PROJECT NO.

W15.0351

LOCATION: \\s0351\Engineering\design\conest\150351-C300_grading_encl.dwg
DATE/TIME: March 17, 2016 - 12:04pm
PLOTTER: HP DesignJet T1200



GENERAL GRADING NOTES

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- ALL SPOT ELEVATIONS ARE TO FINISHED GRADE.
- COMPACTED "B" BORROW BACK FILL REQ'D. OVER ALL UTILITIES IN PAVED AREAS.
- ALL GRADES AT BOUNDARY SHALL MEET EXISTING.
- ANY PART OF SANITARY OR STORM SEWER TRENCHES RUNNING UNDER OR WITHIN 5' OF PAVEMENT TO BE BACKFILLED WITH GRANULAR MATERIAL.
- ALL CONSTRUCTION ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH O.S.H.A. STANDARDS FOR WORKER SAFETY.
- 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.
- 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 18" DEEP SHALL BE CUT OUT AND CORRECTED TO POSITIVE DRAINAGE AT NO COST TO THE OWNER/ DEVELOPER/ OR ENGINEER.
- VERTICAL CURVES, WITH A MINIMUM LENGTH OF 50', SHALL BE USED WHERE POSSIBLE BETWEEN POSITIVE CHANGES IN DIRECTION (SLOPE) TO ALLOW FOR POSITIVE DRAINAGE AND SMOOTH TRANSITIONS.
- 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.
- ALL HDPE PIPE SHALL BE DUAL WALLED, HANCOR HQ, ADS N-12 PIPE OR APPROVED EQUAL.
- ALL FITTINGS AND ACCESSORIES INCLUDING BUT NOT LIMITED TO END CAPS, CLEANOUTS, REDUCERS, ETC., SHALL BE OF HDPE MATERIAL COMPARABLE WITH STORAGE PIPES.
- PROVIDE BACKFILL WITH A MINIMUM OF 4" BEDDING MATERIAL OF #6 AGGREGATE COMPACTED IN 8" LIFTS TO 95% MAXIMUM DRY DENSITY.
- VERIFY EXISTING STORM INVERT ELEVATIONS PRIOR TO STARTING NEW STORM SEWER CONNECTION.
- THE SITE DOES LIE IN A SPECIAL FLOOD HAZARD AREA 'X' 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

	EXIST. FIRE HYDRANT
	EXIST. WATER METER VALVE
	EXIST. SIGN
	EXIST. MONITOR WELL
	EXIST. IRON PIN & OR PK (SET/FOUND)
	EXIST. GAS METER
	EXIST. GAS VALVE
	EXIST. STORM INLET
	EXIST. STORM/SAN/TELE. MANHOLE
	EXIST. ELECTRIC METER
	EXIST. POWER POLE/POWER POLE w/ LIGHT
	EXIST. GUY ANCHOR
	EXIST. TELEPHONE PEDESTAL
	HVAC UNIT
	CLEANOUT
	MAILBOX
	LIGHT POLE
	EXIST. BOLLARD
	EXIST. SANITARY SEWER LINE
	EXIST. STORM SEWER LINE
	EXIST. CONTOURS
	CONCRETE END SECTION (C.E.S.)
	GATE POST
	TRANSFORMER
	RIGHT-OF-WAY LINE
	PROPOSED SANITARY SEWER LINE
	PROPOSED STORM SEWER LINE
	PROPOSED HDPE ROOF DRAIN
	PROPOSED PIPE BOLLARD
	PROPOSED MANHOLE (MH)
	PROPOSED CONTOURS
	PROPOSED ELEVATION
	DRAINAGE FLOW ARROW
	EXISTING TREE LINE
	PROPOSED DIRECTIONAL SIGN
	FINISH FLOOR ELEVATION
	TOP OF (MANHOLE / INLET) CASTING
	INVERT ELEVATION
	REINFORCED CONCRETE PIPE
	CORRUGATED METAL PIPE
	POLYVINYL CHLORIDE PIPE
	HIGH DENSITY POLYETHYLENE PIPE
	FLOW LINE
	STRUCTURE
	MATCH EXISTING GRADE
	TOP OF WALL
	SUB-SURFACE DRAINAGE
	TOP OF CURB
	GUTTER
	WATER LINE
	GAS LINE
	OVERHEAD UTILITY LINE
	TELEPHONE LINE
	ELECTRIC LINE
	TEMPORARY BENCHMARK
	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 IN FRANKLIN MORTON, LLC SITE WERE PREPARED BY WEIHE ENGINEERS, INC. AND STEVEN SCOTT RUCKER. FINAL CONSTRUCTION PLANS ARE THOSE PLANS CONTAINING A FINAL REVISION DATE AFTER 03/17/2016. WEIHE ENGINEERS, INC. AND STEVEN SCOTT RUCKER ACCEPT RESPONSIBILITY ONLY FOR THE IN FRANKLIN MORTON, LLC SITE IMPROVEMENTS RELATED TO THE ENGINEERING WORK SHOWN ON THESE PLANS.

SCALE: 1" = 30'

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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.

15055 N. College Avenue
Indianapolis, Indiana 46250
weihe.net
317 | 846 - 6611
800 | 452 - 6408
317 | 843 - 0546 fax

WEIHE ENGINEERS
Land Surveying | Civil Engineering
Landscape Architecture

PROJECT NO.: W15.0351
DWG NAME: W150351-C300 grading_encl.dwg
DESIGNED BY: BUSRAM
DRAWN BY: RAM
CHECKED BY: BUS
DATE: 03/17/2016

DATE: 03/17/2016
BY: BUS
CITY SUBMITTAL

REVISIONS AND ISSUES

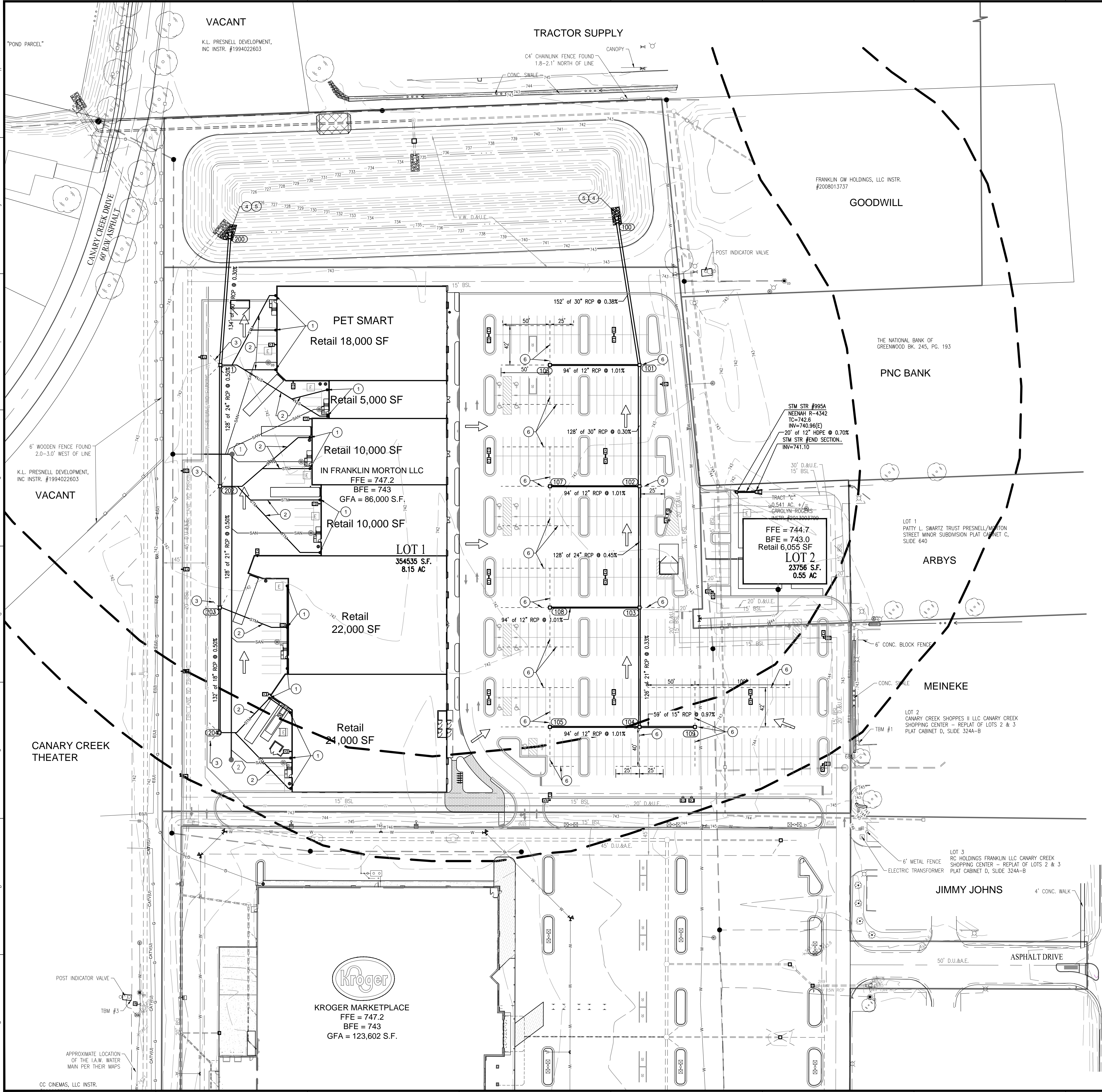
STEVEN SCOTT RUCKER
REGISTERED PROFESSIONAL ENGINEER
PE #1300279
STATE OF INDIANA
NOT A PROFESSIONAL ENGINEER

STEVEN SCOTT RUCKER P.E. 11300279

PREPARED FOR:
IN FRANKLIN MORTON, LLC
xxx NORTH MORTON STREET, FRANKLIN, IN 46131
ENLARGED GRADING PLAN
Part of the NE1/4 of Section 15, Township 12 North, Range 4 East, Franklin Township, Johnson County, Indiana

SHEET NO.
C302
PROJECT NO.
W15.0351

LOCATION: IN 2015 W150351 Engineering\Design\Coronet\W150351-C600.dwg
DATE/TIME: March 17, 2016 12:13pm
PLOTTER: b7i sheets



- LEGEND**
- EXIST. FIRE HYDRANT
 - EXIST. WATER METER/VALVE
 - EXIST. SIGN
 - EXIST. MONITOR WELL
 - EXIST. IRON PIN & OR PK (SET/FOUND)
 - EXIST. GAS METER
 - EXIST. GAS VALVE
 - EXIST. STORM INLET
 - EXIST. STORM/SAN/TELE. MANHOLE
 - EXIST. ELECTRIC METER
 - EXIST. POWER POLE/POWER POLE w/ LIGHT
 - EXIST. GUY ANCHOR
 - EXIST. TELEPHONE PEDESTAL
 - HVAC UNIT
 - CLEANOUT
 - MAILBOX
 - LIGHT POLE
 - EXIST. BOLLARD
 - EXIST. SANITARY SEWER LINE
 - EXIST. STORM SEWER LINE
 - EXIST. CONTOURS
 - CONCRETE END SECTION (C.E.S.)
 - GATE POST
 - TRANSFORMER
 - RIGHT-OF-WAY LINE
 - PROPOSED SANITARY SEWER LINE
 - PROPOSED STORM SEWER LINE
 - PROPOSED HDPE ROOF DRAIN
 - PROPOSED PIPE BOLLARD
 - PROPOSED MANHOLE (MH)
 - PROPOSED CONTOURS
 - PROPOSED ELEVATION
 - DRAINAGE FLOW ARROW
 - EXISTING TREE LINE
 - PROPOSED DIRECTIONAL SIGN
 - FINISH FLOOR ELEVATION
 - TO
 - INV
 - RCP
 - CMP
 - PVC
 - HDPE
 - STR.
 - M.E.G. OR M.E.
 - TOW OR TW
 - SSD
 - TOC
 - GUT
 - WATER LINE
 - GAS LINE
 - OVERHEAD UTILITY LINE
 - TELEPHONE LINE
 - ELECTRIC LINE
 - TEMPORARY BENCHMARK
 - PARKING COUNT
 - EMERGENCY SPILLWAY

DRAINAGE PLAN NOTES

- 6" PVC ROOF DRAIN @ 1.0% MINIMUM, START INVERT = 744.0.
- 8" AND 10" PVC ROOF DRAINS LATERALS SEE PLAN FOR MINIMUM SLOPE, CONNECT TO MAIN WITH WYE AND REDUCER PIPE FITTINGS.
- 10' OF 4" SUBSURFACE DRAINS
- INSTALL 10' x 20' x 1.5' REVETMENT RIP-RAP ON FILTER FABRIC
- PROVIDE TRASH/DEBRIS GUARD AT THE END SECTION PIPE.
- 4" SUBSURFACE DRAINS ARE RECOMMENDED TO BE PLACED WITHIN THE PARKING AND DRIVE AISLES 2'-3' BENEATH THE GRANULAR BASE COURSE LAYER PER GEOTECH REPORT BY ALT & WITZIG (15IN0340) DATED JUNE 1, 2015. ADDITIONAL SUBSURFACE DRAINS MAY BE REQUIRED DURING CONSTRUCTION.

GENERAL NOTES

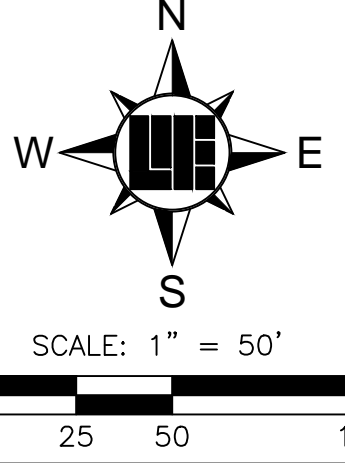
- ALL HDPE PIPE SHALL BE DUAL WALLED, HANCOCK HQ, ADS N-12 PIPE OR APPROVED EQUAL
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- THE SITE DOES LIE IN A SPECIAL FLOOD HAZARD AREA 'X' AS ESTABLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY - NATIONAL FLOOD INSURANCE PROGRAM, WHEN PLOTTED BY SCALE ON FLOOD INSURANCE RATE MAP #18081C0227 D, DATED AUGUST 2, 2007.

BENCHMARK INFORMATION

BENCHMARK INFORMATION
DNR TBM CD 1, 1988 IN JOHNSON COUNTY, FRANKLIN QUADRANGLE, IN THE NE 1/4 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 OF 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: 742.84 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.
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10505 N. College Avenue
Indianapolis, Indiana 46280
weihe.net
317 | 846 - 6611
800 | 452 - 6408
317 | 843 - 0546 fax

WEIHE ENGINEERS
Land Surveying | Civil Engineering
Landscape Architecture

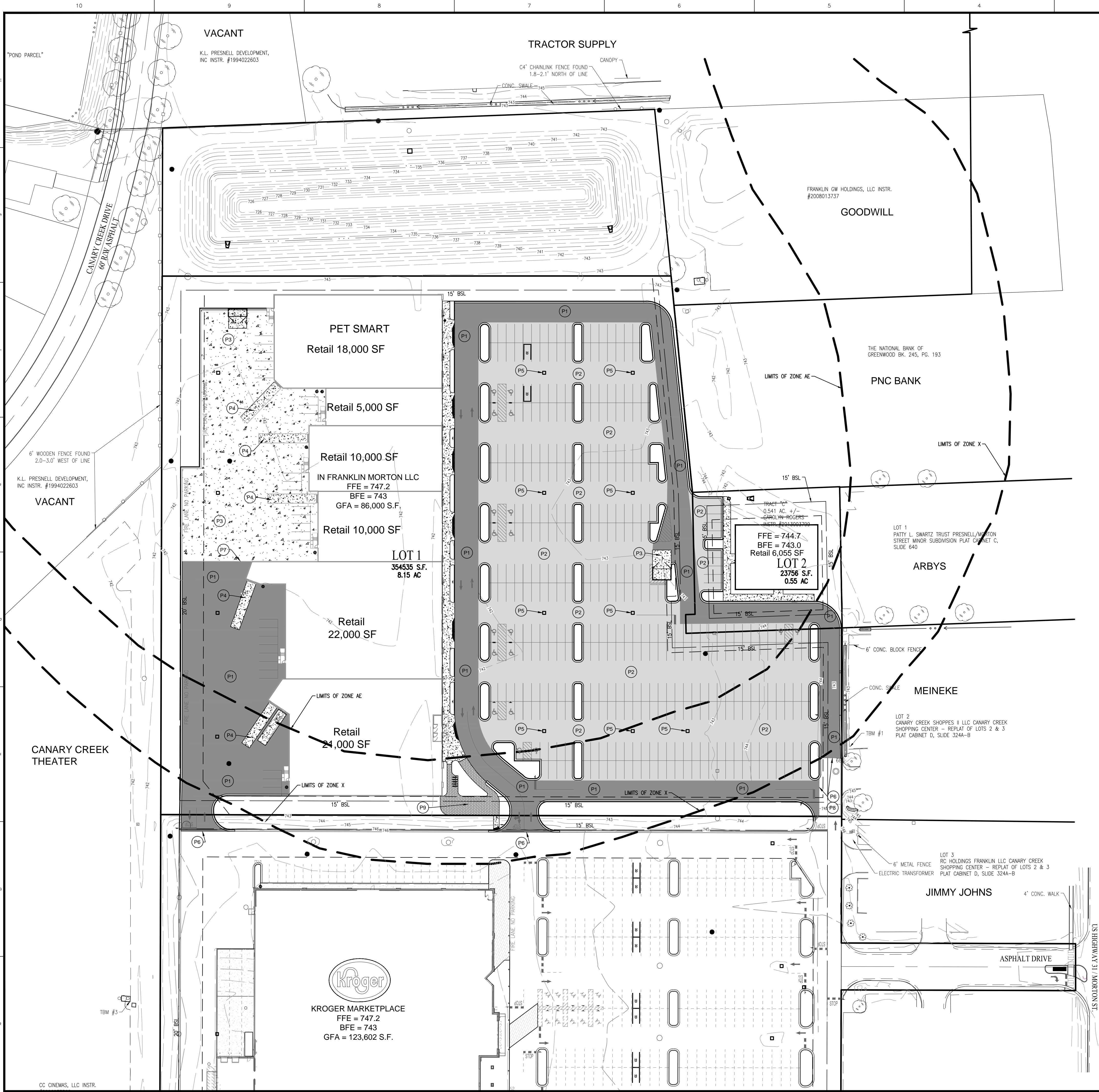
PROJECT NO.: W15.0351	DATE: 03/17/2016	BY: BJS
DWG NAME: W150351-C600.dwg	DESIGNED BY: BJS	DRAWN BY: RAM
CHECKED BY: BJS	DATE: 03/17/2016	

REVISIONS AND ISSUES
CITY SUBMITTAL

STEVEN SCOTT RUCKER P.E. 11300279
REGISTERED PROFESSIONAL ENGINEER
STATE OF INDIANA
NOTES: PROFESSIONAL ENGINEER

PREPARED FOR:
IN FRANKLIN MORTON, LLC
xxx NORTH MORTON STREET, FRANKLIN, IN 46131
DRAINAGE AND FLOOD ROUTING PLAN
Part of the NE 1/4 of Section 15, Township 12 North, Range 4 East, Franklin Township, Johnson County, Indiana

SHEET NO.
C303
PROJECT NO.
W15.0351



PAVEMENT PLAN NOTES

- HARDSCAPE**
- P1 HEAVY DUTY ASPHALT PAVING
 - P2 STANDARD DUTY ASPHALT PAVING
 - P3 HEAVY DUTY CONCRETE WITH 1" CHAMFERED CORNERS
 - P4 HEAVY DUTY CONCRETE FOR TRUCK DOCK RAMPS
 - P5 STORM INLET WITH CONCRETE APRON SHOWN ON SHEET C602
 - P6 MATCH EXISTING PAVEMENT
 - P7 JOINT BETWEEN HEAVY DUTY ASPHALT AND HEAVY DUTY CONCRETE PAVEMENT
 - P8 EXISTING DRIVES TO ADJACENT BUSINESSES TO BE OPEN AND AVAILABLE FOR ACCESS DURING CONSTRUCTION.
 - P9 2000 S.F. PUBLIC AREA REQUIRED BY CITY ORDINANCE. USE DECORATIVE STAMPED CONCRETE.

PLAN LEGEND

- EXISTING SIGN
- MAILBOX
- EXISTING LIGHT
- EXISTING BOLLARD
- GATE POST
- TRANSFORMER
- RIGHT-OF-WAY LINE
- RIGHT-OF-WAY
- FINISH FLOOR ELEVATION
- PARKING COUNT
- ADA PARKING
- BUILDING SETBACK LINE
- EASEMENT
- DRAINAGE AND UTILITY EASEMENT
- EXISTING IRON PIN & OR PK (SET/FOUND)
- EXISTING TREE LINE
- PROPOSED DIRECTIONAL SIGN

HATCH LEGEND

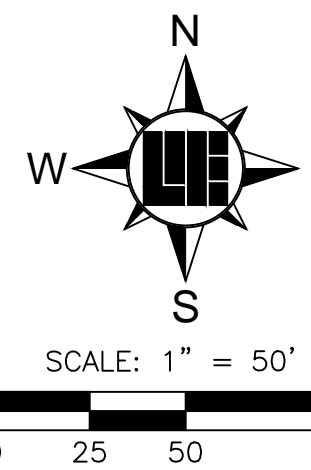
PAVEMENT

- STANDARD DUTY ASPHALT
- HEAVY DUTY ASPHALT
- HEAVY DUTY CONCRETE
- DECORATIVE STAMPED CONCRETE

PLAN CERTIFICATE NOTE:

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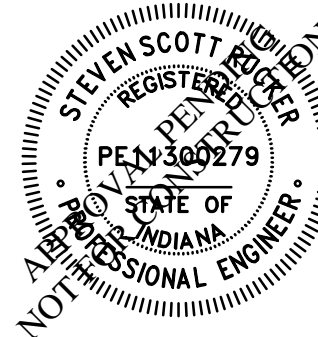
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weihe.net
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800 | 452 - 6408
317 | 843 - 0546 fax

WEIHE ENGINEERS
Land Surveying | Civil Engineering
Landscape Architecture

PROJECT NO.: W15.0351
DWG NAME: W150351-C400_pave.dwg
DESIGNED BY: BUSRAM
DRAWN BY: RAM
CHECKED BY: BUS
DATE: 03/17/2016

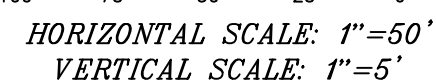
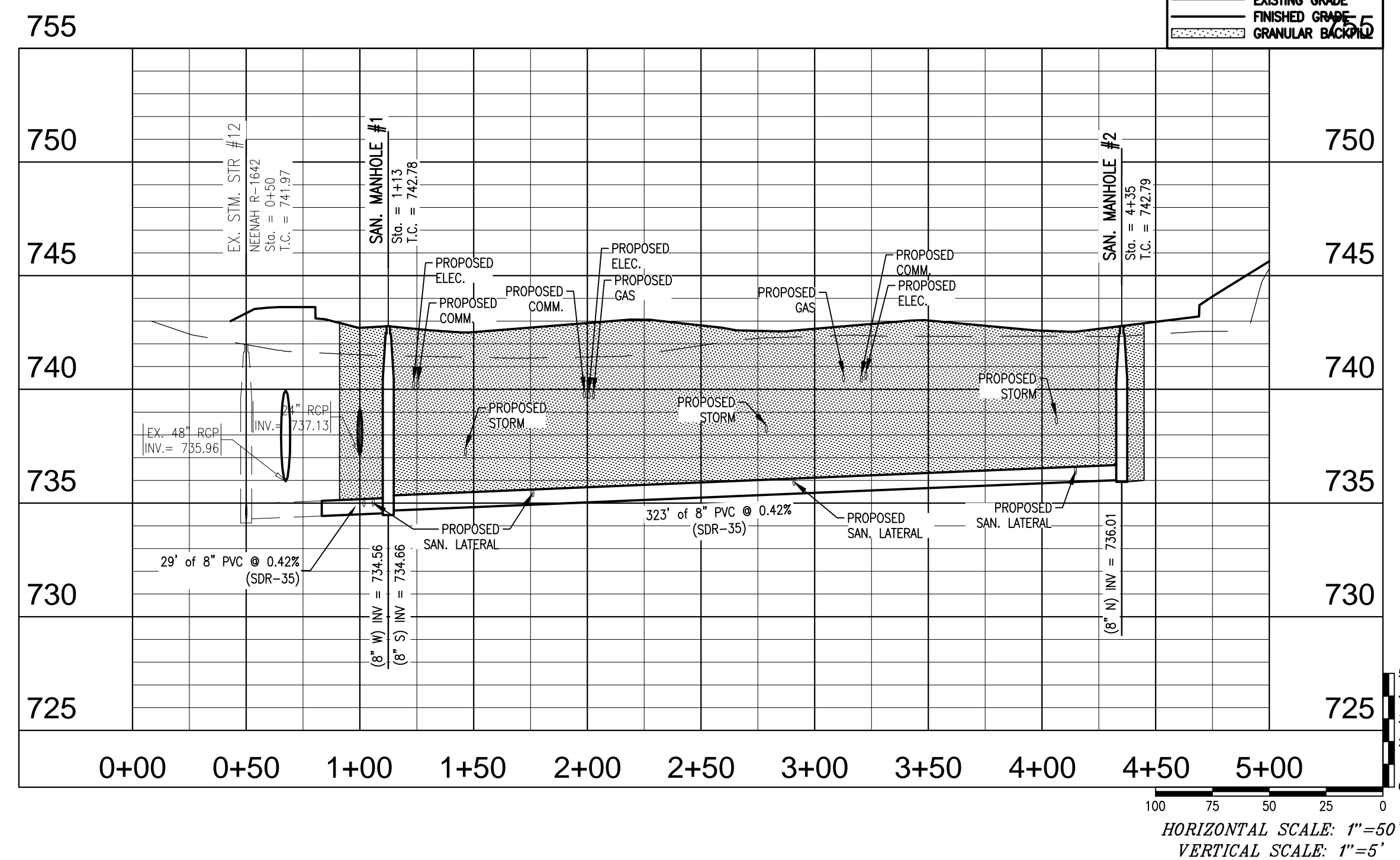
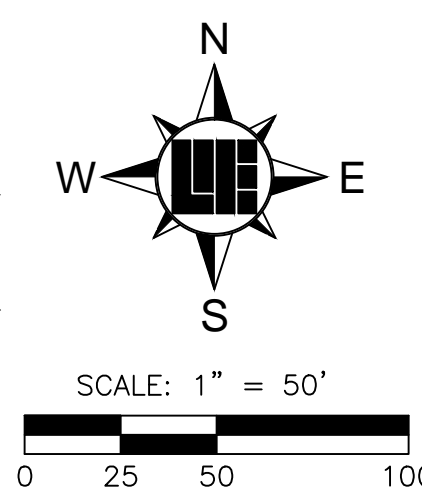
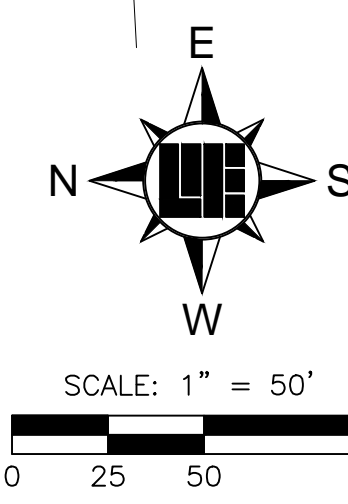
REVISIONS AND ISSUES
CITY SUBMITTAL



STEVEN SCOTT RUCKER P.E. 11300279

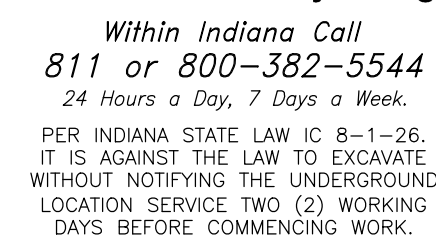
PREPARED FOR:
IN FRANKLIN MORTON, LLC
xxx NORTH MORTON STREET, FRANKLIN, IN 46131
PAVING PLAN

SHEET NO.
C400
PROJECT NO.
W15.0351



RUN WATER LINE A MINIMUM OF 54" DEEP.
 PROVIDE MINIMUM OF 10' HORIZONTAL & 18" VERTICAL CLEARANCE
 BETWEEN WATER & SANITARY LINE. SANITARY SEWER LINE IN
 PROXIMITY OF WATER LINE SHALL BE C900 WATER MAIN GRADE PVC.

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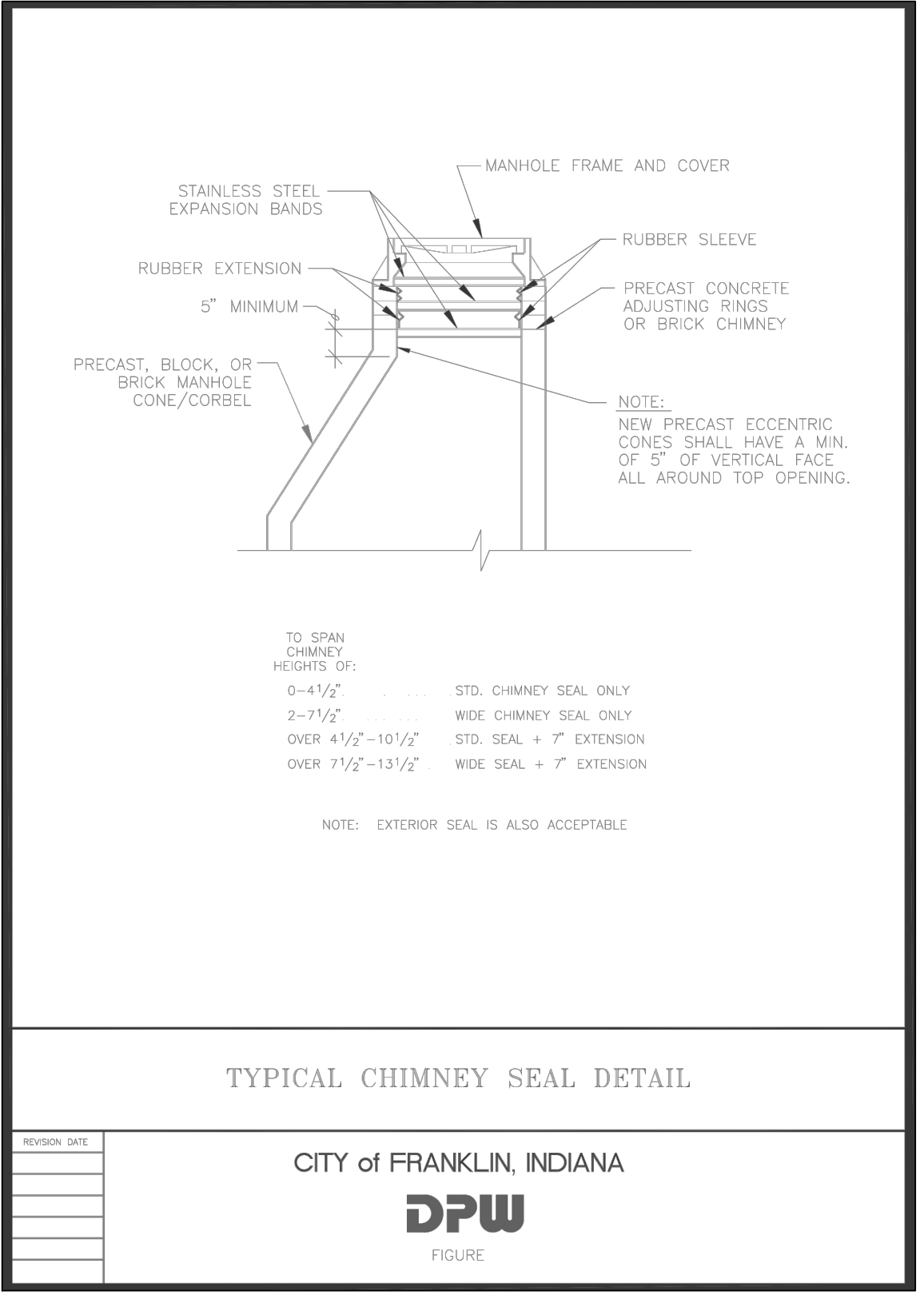
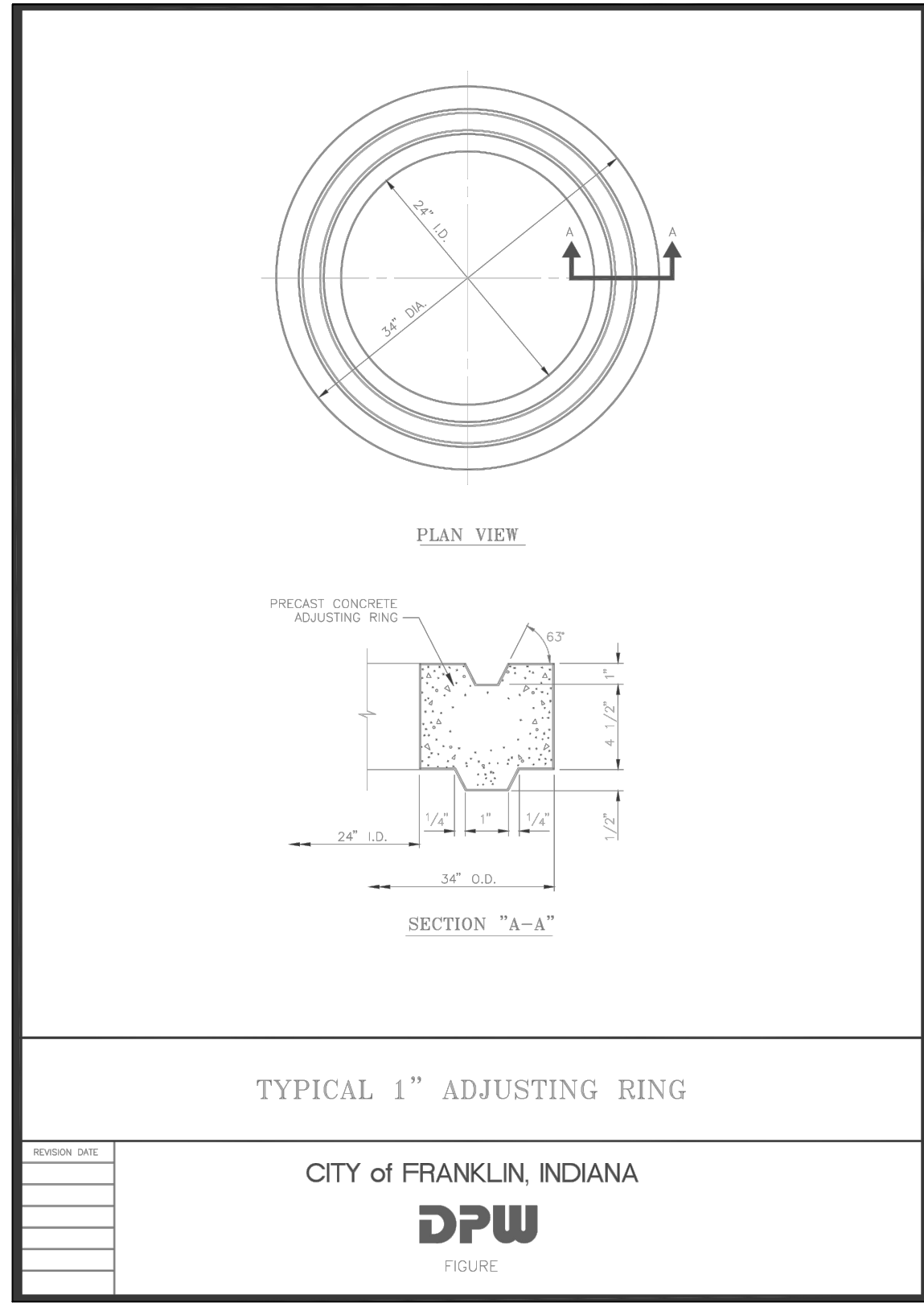
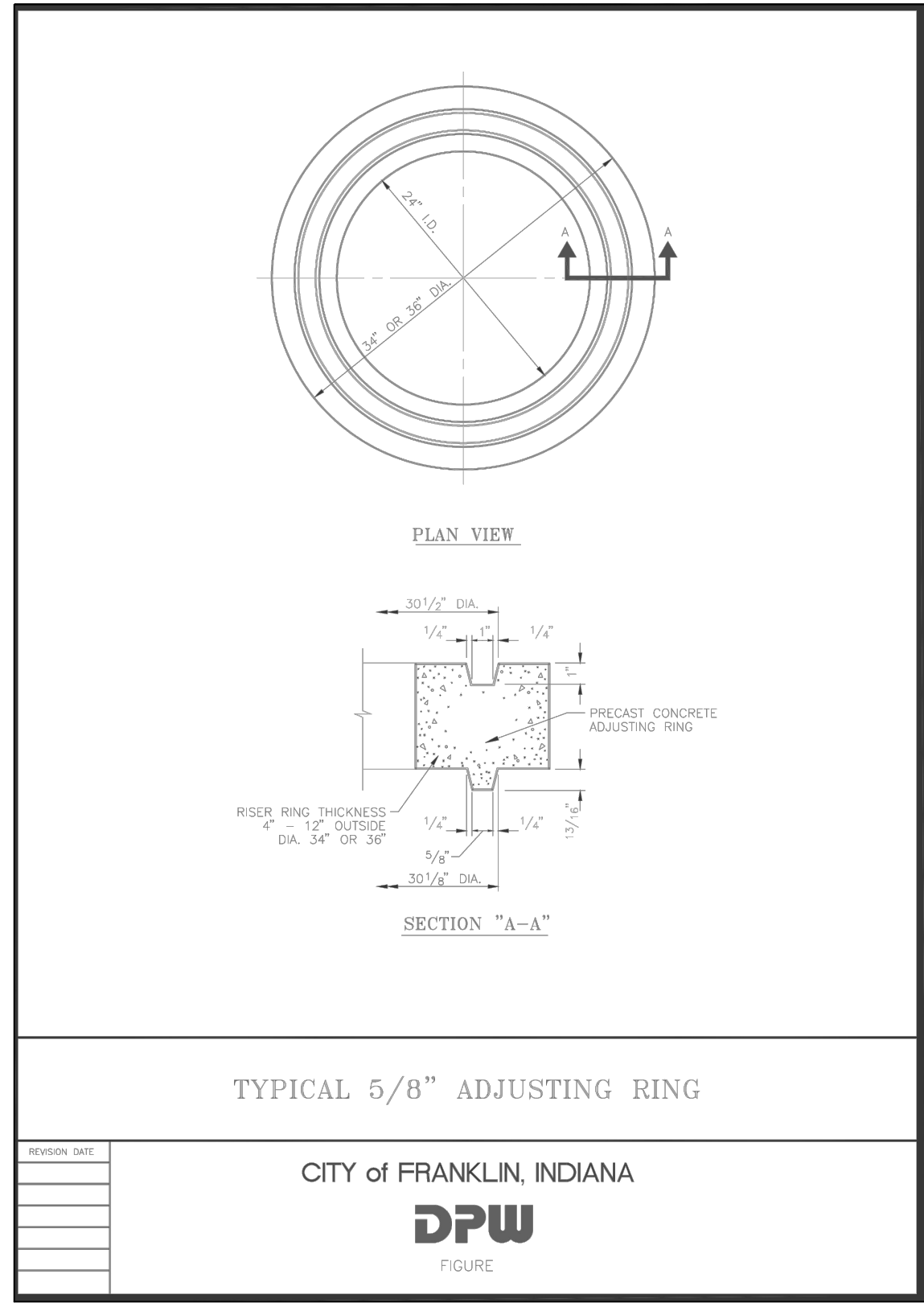
SHEET NO.
C5
PROJECT NO.
W1

SHEET NO.
C5
PROJECT NO.
W1

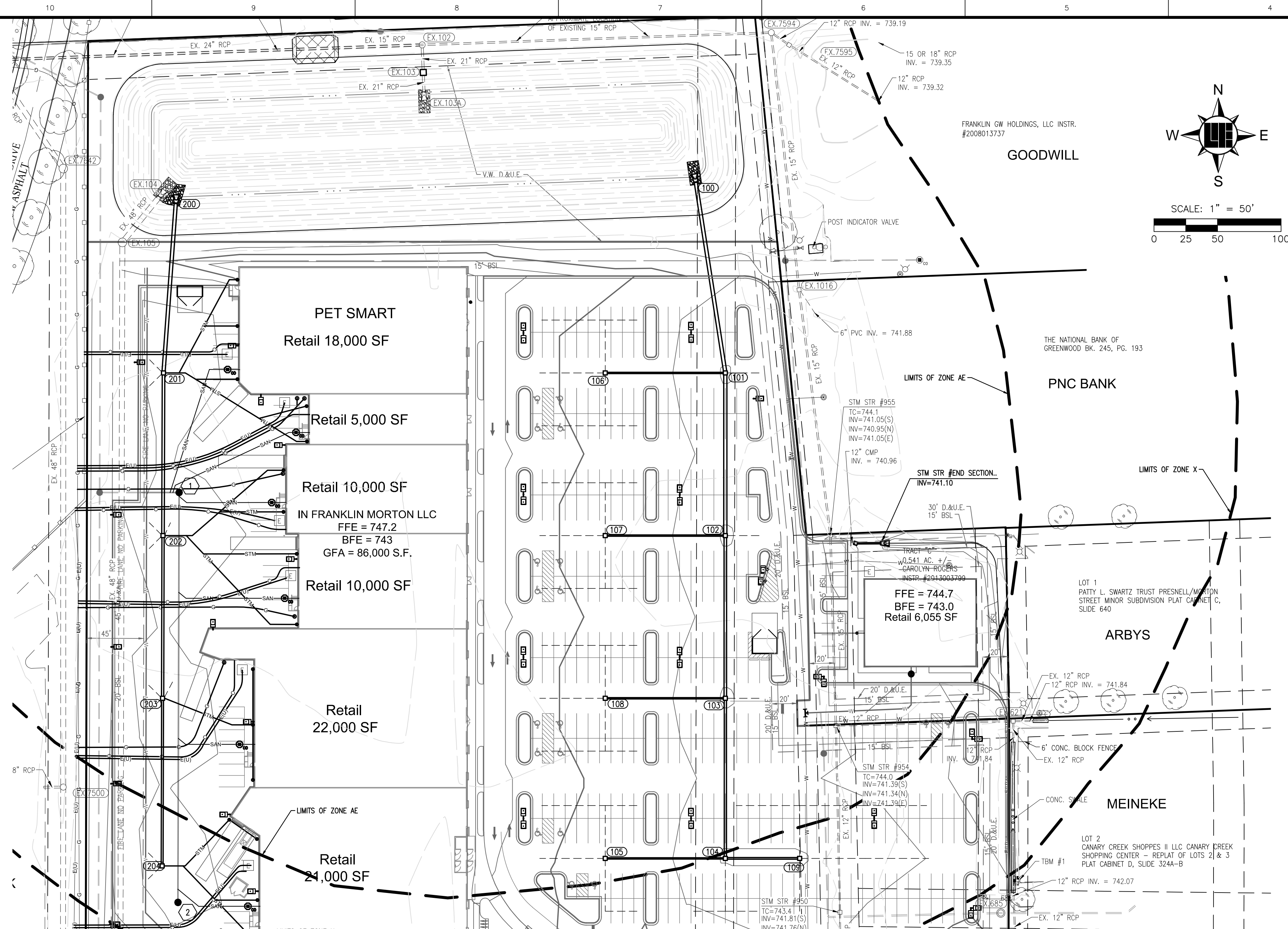
STEVEN SCOTT RUCKER P.E. 1130

PROJECT NO.:	W15.0351
HWG NAME:	50351--C500 son pr
DESIGNED BY:	BJS/RAM
DRAWN BY:	RAM
CHECKED BY:	BJS

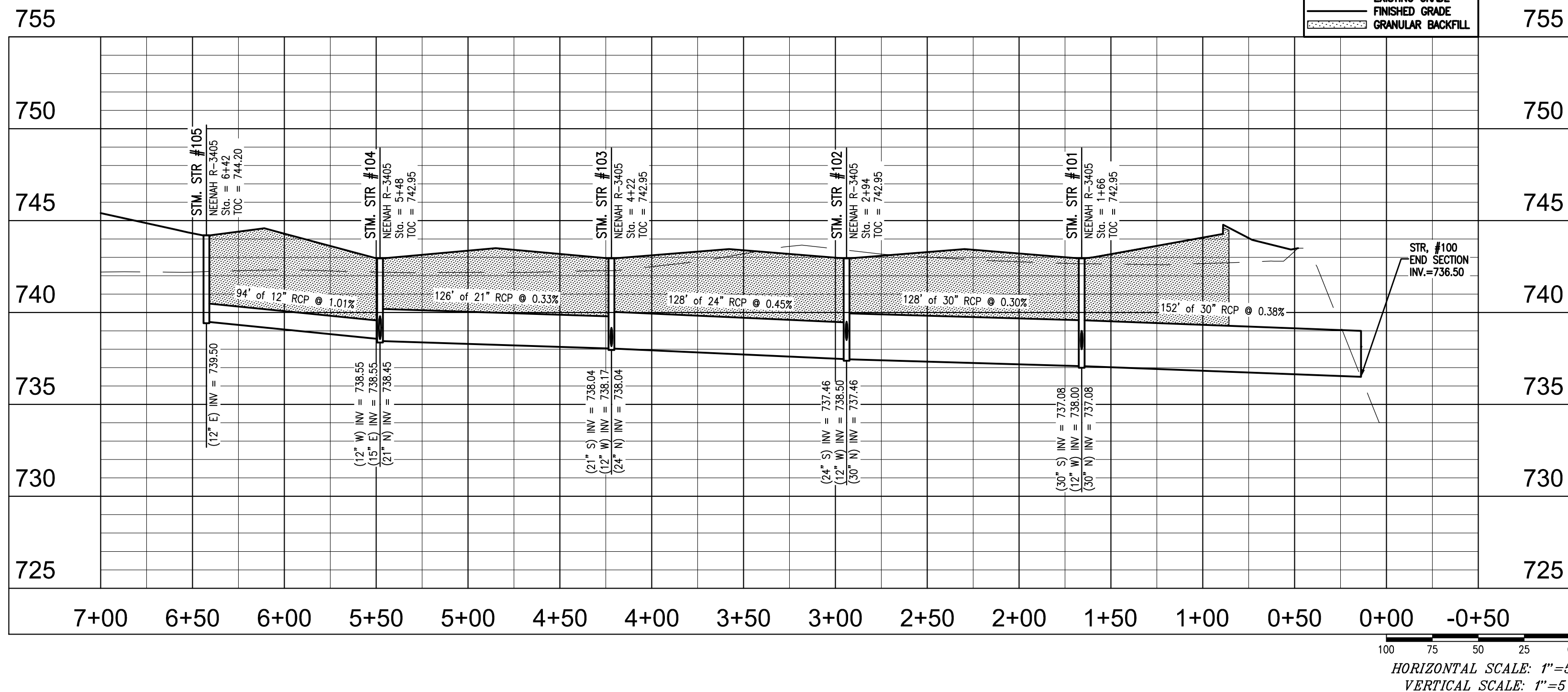
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LAYOUT: C500
DATE/TIME: March 17, 2016 - 12:06pm
PLOTTER: HP DesignJet 5000
PLOTTER DRIVER: hp-plotter



LOCATION: H:\2015\W150351\Engineering\Design\Consent\W150351-C600 STM pns.dwg
DATE: 03/17/2016
DRAWN BY: J. W. WEGNER
PLOTED BY: J. W. WEGNER



STM-100A



STORM SEWER PLAN AND PROFILE LEGEND

UTILITIES

- FIRE DEPT HOOKUP
- FIRE HYDRANT
- POST INDICATOR VALVE
- WATER MANHOLE
- WATER METER
- WATER VALVE
- GAS METER
- GAS VALVE
- ELECTRIC MANHOLE
- ELECTRIC METER
- ELECTRIC RISER
- TRANSFORMER
- GUY ANCHOR
- ELECTRIC JUNCTION BOX
- GENERATOR
- UTILITY POLE
- UTILITY POLE W/ TRANSFORMER
- ORNAMENTAL LIGHT
- STREET LIGHT
- PARKING LOT LIGHT (1 HEAD)
- PARKING LOT LIGHT (2 HEAD)
- PARKING LOT LIGHT (3 HEAD)
- PARKING LOT LIGHT (4 HEAD)
- COMMUNICATIONS JUNCTION BOX
- COMMUNICATIONS MANHOLE
- COMMUNICATIONS PEDESTAL
- COMMUNICATIONS RISER
- TRAFFIC SIGNAL
- STORM CLEANOUT
- BEEHIVE INLET
- CURB INLET
- FLOOR DRAIN
- SQUARE INLET
- STORM MANHOLE
- ROUND INLET
- DOWN SPOUT
- SANITARY SEWER CLEANOUT
- SANITARY SEWER MANHOLE
- SANITARY STUB MARKER

OTHER

- FLAG POLE
- SIGN
- POST
- GATE POST
- BOLLARD
- PARKING WHEEL STOP
- HANDICAPPED SPACE
- EMERGENCY FLOOD ROUTE
- FLOW DIRECTION AND SLOPE

ABBREVIATIONS

- | | |
|----------------|--------------------------------|
| ROW | RIGHT OF WAY |
| ESMT | EASEMENT |
| D&UE | DRAINAGE AND UTILITY EASEMENT |
| FFE | FINISH FLOOR ELEVATION |
| TOP OF CASTING | TOP OF CASTING |
| TCC | TERRAZZO CONCRETE |
| CMP | CORRUGATED METAL PIPE |
| RCP | REINFORCED CONCRETE PIPE |
| PVC | POLYVINYL CHLORIDE PIPE |
| VCP | VITRIFIED CLAY PIPE |
| HDPE | HIGH DENSITY POLYETHYLENE PIPE |
| DIP | DUCTILE IRON PIPE |
| SSD | SUB SURFACE DRAIN PIPE |
| STM | STORM |
| SAN | SANITARY |
| STR | STRUCTURE |
| CO | CLEANOUT |

PAVEMENT

- STANDARD DUTY ASPHALT
- HEAVY DUTY ASPHALT
- CONCRETE PAVEMENT
- STONE

STORM SEWER NOTES

- THE CONTRACTOR SHALL ADHERE TO ALL TERMS AND CONDITIONS AS OUTLINED IN THE EPA OR APPLICABLE STATE GENERAL N.P.D.E.S. PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES AND STORMWATER POLLUTION PREVENTION PLAN.
- 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.
- THE CONTRACTOR SHALL CONTACT APPLICABLE STATE UNDERGROUND LOCATION SERVICE AT LEAST 72 HOURS PRIOR TO ANY WORK AND SHALL CONTACT THE OWNER AND/OR ENGINEER SHOULD UTILITIES APPEAR TO BE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- THE PLANS SHOW THE LOCATION OF ALL KNOWN UTILITIES LOCATED WITHIN THE LIMITS OF CONSTRUCTION ACCORDING TO INFORMATION PROVIDED BY THE VARIOUS UTILITY COMPANIES. PREVIOUS CONSTRUCTION PLANS AND AS EVIDENCED BY OBSERVATION OF ABOVE GROUND CONDITIONS BY THE SURVEYOR. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED.
- THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES TO LOCATE MAINS, CONDUITS, SERVICE LINES, ETC. WITHIN THE CONSTRUCTION LIMITS. THE LOCATION AND PROTECTION OF UTILITY STRUCTURES, THEIR SUPPORT AND MAINTENANCE DURING CONSTRUCTION WITH APPLICABLE UTILITY COMPANY IS THE EXPRESSED RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL CONTACT ALL APPLICABLE UTILITIES AND VERIFY ANY AND ALL FEES ASSOCIATED WITH THE INSTALLATION OF ALL UTILITIES.
- ALL CONSTRUCTION ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH O.S.H.A. STANDARDS FOR WORKER SAFETY.
- ANY PART OF STORM SEWER TRENCHES RUNNING UNDER OR WITHIN 5' OF PAVEMENT TO BE BACKFILLED WITH GRANULAR MATERIAL.
- IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY LOCATION, SIZE, AND ELEVATION OF EXISTING UTILITIES, STRUCTURES, PIPES, PAVEMENT, ETC. AS RELATED TO THEIR WORK. NOTIFY ENGINEER OF ANY CONFLICT AND/OR DISCREPANCIES IN THE CONSTRUCTION DOCUMENTS.
- MAINTAIN 10' HORIZONTAL AND 18" VERTICAL CLEARANCE BETWEEN STORM / SANITARY SEWER SYSTEMS AND DOMESTIC FIRE LINE SERVICE. SANITARY SEWER LINE IN PROXIMITY OF WATER LINE SHALL BE C900 WATER MAIN GRADE PVC.
- CONTRACTOR TO INSTALL CONCRETE CRADLES WHEN THE VERTICAL SEPARATION (AS MEASURED FROM THE EXTERIOR OF THE PIPES) BETWEEN SANITARY SEWERS, WATER MAINS AND STORM SEWERS IS 18" OR LESS.
- IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
- WHEN PERFORMING EXCAVATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.
- COMPACTED "B" BORROW BACK FILL REQUIRED OVER ALL UTILITIES IN PAVED AREAS.
- ALL UTILITY STRUCTURES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT AND SHALL HAVE TRAFFIC BEARING RING AND COVERS.
- COORDINATE LOCATIONS AND CONNECTIONS OF BUILDING STORM LINES WITH PLUMBING DRAWINGS.
- FOLLOW ALL LOCAL AND STATE CODES IN REFERENCE TO STORM SEWER INSTALLATION.
- ALL EXISTING MANHOLE AND CATCH BASIN GRATES SHALL BE ADJUSTED TO NEW FINISH GRADE ELEVATIONS.
- EXISTING PIPES WITHIN CONSTRUCTION LIMITS ARE TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
- ALL STORM PIPE CONNECTIONS AT STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
- ALL STORM SEWER STRUCTURES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT AND SHALL HAVE TRAFFIC BEARING RING AND COVERS.
- ALL STORM SEWER STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR CHANNEL FROM INVERT IN TO INVERT OUT.
- NEW PIPES AND STRUCTURES WITHIN CONSTRUCTION LIMITS ARE TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS PRIOR TO FINAL TURNOVER TO THE OWNER.
- ALL HDPE PIPE SHALL BE DUAL WALLED, HANCOR HQ, ADS N-12 PIPE OR APPROVED EQUAL.
- ALL FITTINGS AND ACCESSORIES INCLUDING BUT NOT LIMITED TO END CAPS, CLEANOUTS, REDUCERS, ETC., SHALL BE OF HDPE MATERIAL COMPARABLE WITH STORAGE PIPES.
- PROVIDE BACKFILL WITH A MINIMUM OF 4" BEDDING MATERIAL OF #8 AGGREGATE COMPACTED IN 8" LIFTS TO 95% MAXIMUM DRY DENSITY.
- VERIFY EXISTING STORM INVERT ELEVATIONS PRIOR TO STARTING NEW STORM SEWER CONNECTION.

LINE TYPES

- | | |
|-------|----------------------------|
| — | RIGHT OF WAY LINE |
| - - - | FENCE |
| - - - | GUARD RAIL |
| - - - | BOUNDARY LINE |
| - - - | FLOW LINE |
| - - - | INDEX CONTOUR |
| - - - | INTERMEDIATE CONTOUR |
| - - - | UNDERGROUND GAS |
| - - - | UNDERGROUND WATER |
| - - - | AERIAL ELECTRIC |
| - - - | UNDERGROUND ELECTRIC |
| - - - | UNDERGROUND COMMUNICATIONS |
| - - - | AERIAL COMMUNICATIONS |
| - - - | UNDERGROUND FIBER OPTIC |
| - - - | AERIAL FIBER OPTIC CABLE |
| - - - | OVERHEAD UTILITY |
| - - - | SANITARY SEWER LATERAL |
| - - - | SANITARY SEWER MAIN |
| - - - | ROOF DRAIN |
| - - - | SUB SURFACE DRAIN |
| - - - | STORM SEWER MAIN |

-NOTE-

RUN WATER LINE A MINIMUM OF 54" DEEP.
PROVIDE MINIMUM OF 10' HORIZONTAL & 2' VERTICAL CLEARANCE BETWEEN WATER & SANITARY LINE. SANITARY SEWER LINE IN PROXIMITY OF WATER LINE SHALL BE C900 WATER MAIN GRADE PVC.

PLAN CERTIFICATE NOTE:

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

FINAL DRAWINGS FOR THE IN FRANKLIN MORTON, LLC SITE WERE PREPARED BY WEIHE ENGINEERS, INC. AND STEVEN SCOTT RUCKER. FINAL CONSTRUCTION PLANS ARE THOSE PLANS CONTAINING A FINAL REVISION DATE AFTER 03/17/2016. WEIHE ENGINEERS, INC. AND STEVEN SCOTT RUCKER ACCEPT RESPONSIBILITY ONLY FOR THE IN FRANKLIN MORTON, LLC SITE IMPROVEMENTS RELATED TO THE ENGINEERING WORK SHOWN ON THESE PLANS.



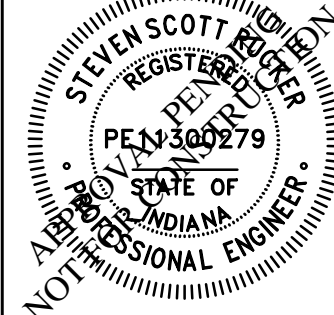
Within Indiana Call
811 or 800-382-5544
24 Hours a Day, 7 Days a Week.

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
weibe.net

WEIHE
ENGINEERS
Land Surveying | Civil Engineering
Landscape Architecture

REVISIONS AND ISSUES	DATE	BY	PROJECT NO.
CITY SUBMITTAL	03/17/2016	BJS	W15.0351



STEVEN SCOTT RUCKER P.E. 11300279

PREPARED FOR:
IN FRANKLIN MORTON, LLC
xxx NORTH MORTON STREET, FRANKLIN, IN 46131
STORM SEWER PLAN AND PROFILE
Part of the NEA of Section 15, Township 12 North, Range 4 East, Franklin Township, Johnson County, Indiana.

SHEET NO.
C600
PROJECT NO.
W15.0351

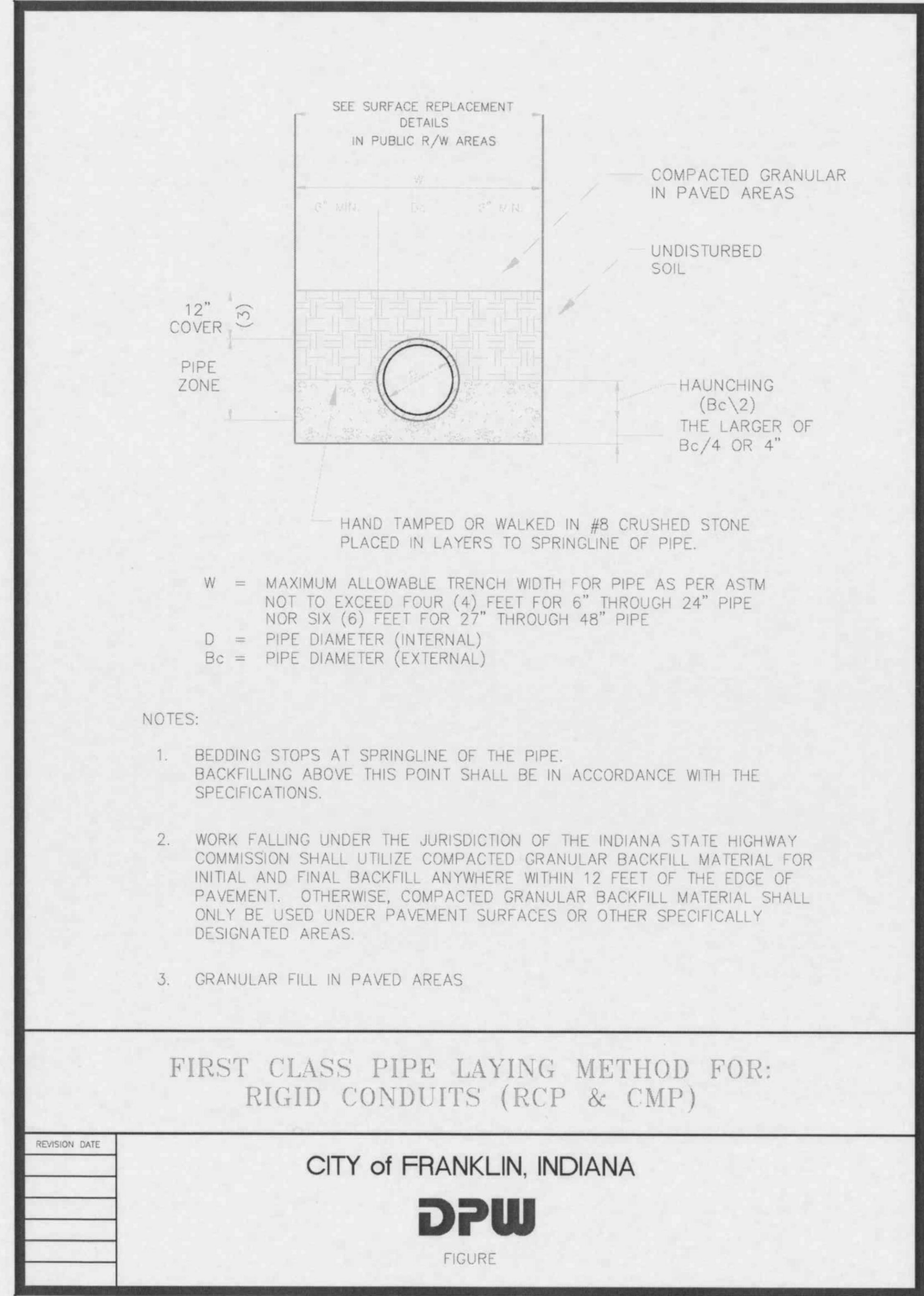
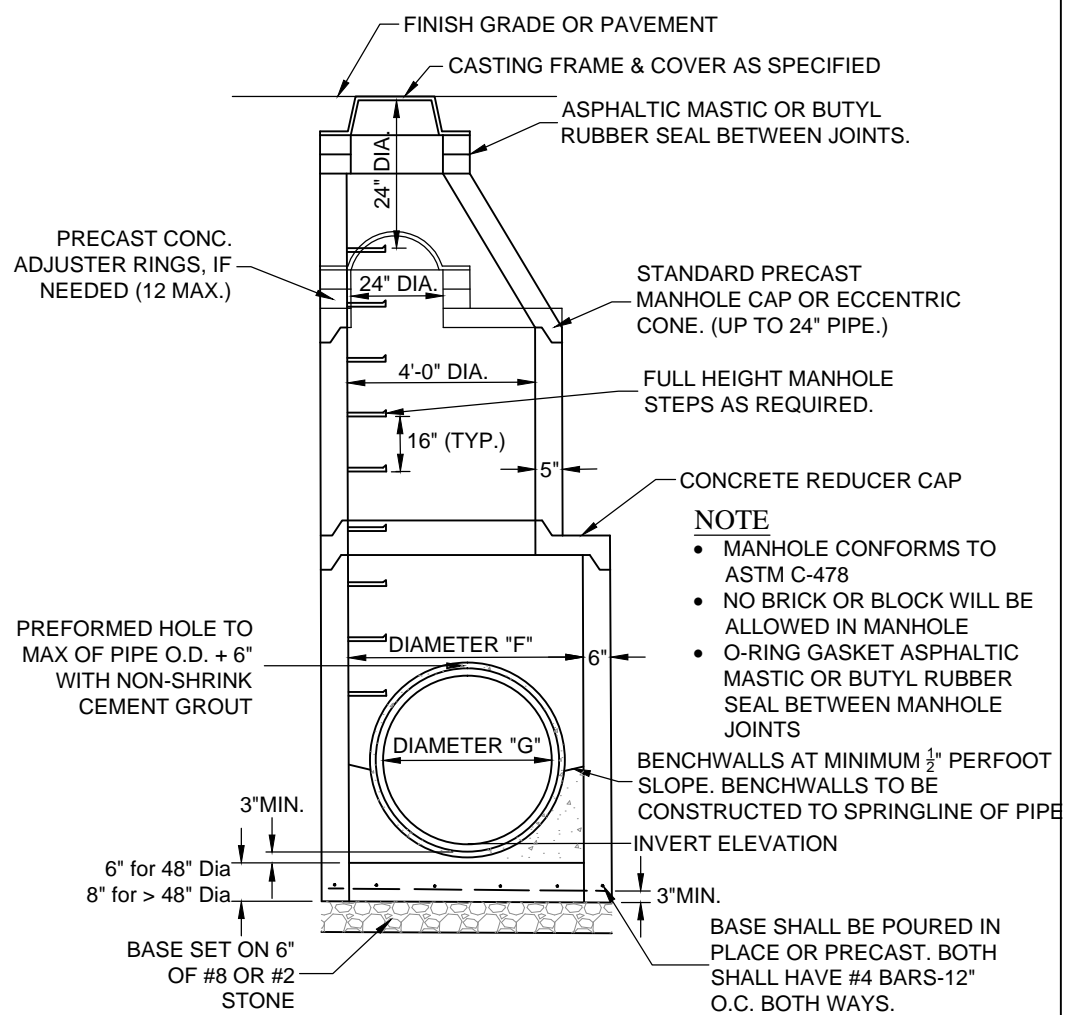


Illustration 7-2

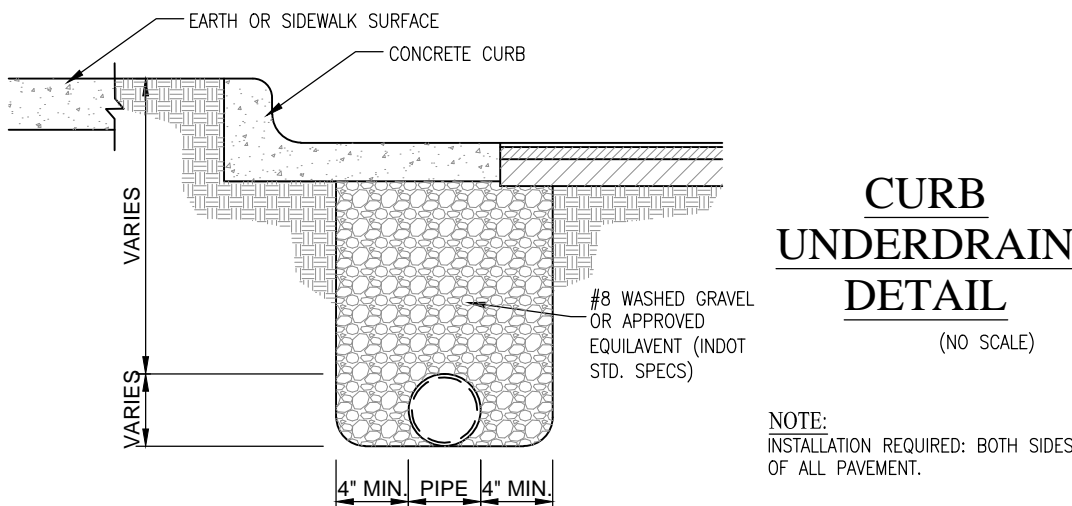
CITY OF FRANKLIN - STANDARD SPECIFICATIONS

1-71

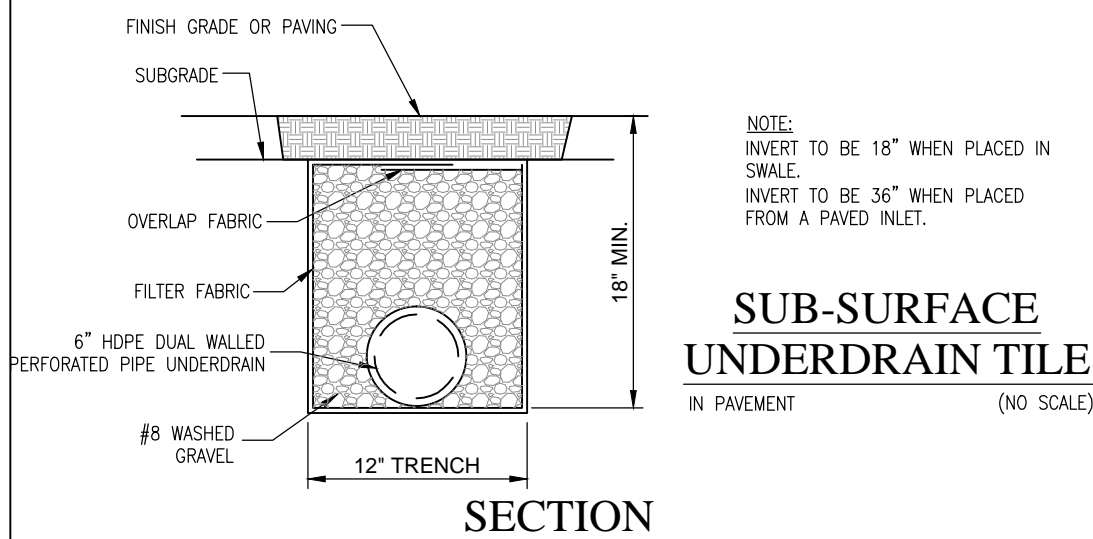
PIPE SIZE (DIA. "G")	MANHOLE (DIA. "F") PIPES ENTERING/ LEAVING AT 0-45 DEGREES	MANHOLE (DIA. "F") PIPES ENTERING/ LEAVING AT 45-90 DEGREES	UP TO 60 DEGREES
12"-21"	48"	48"	N/A
24"	48"	60"	N/A
27"-30"	60"	60"	N/A
33"-36"	60"	72"	N/A
42"	72"	84"	N/A
48"	84"	96"	N/A
54"	N/A	N/A	96"
60"	N/A	N/A	96"
66"	N/A	N/A	96"



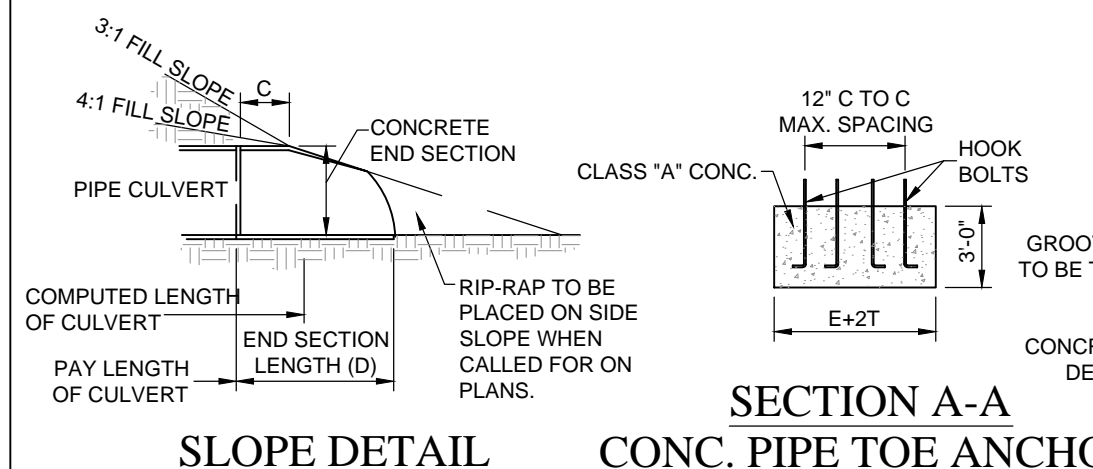
STANDARD STORM MANHOLE
(NO SCALE)



CURB UNDERDRAIN
DETAIL
(NO SCALE)



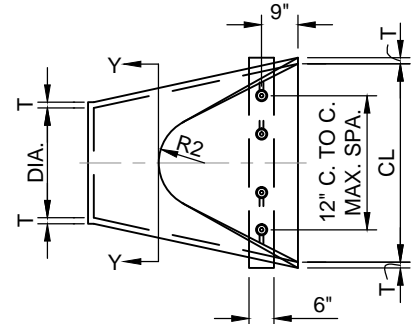
SUB-SURFACE UNDERDRAIN TILE
IN PAVEMENT
(NO SCALE)



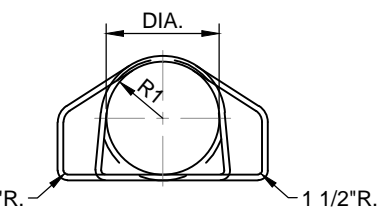
SLOPE DETAIL

SECTION A-A
CONC. PIPE TOE ANCHOR

LONGITUDINAL SECTION

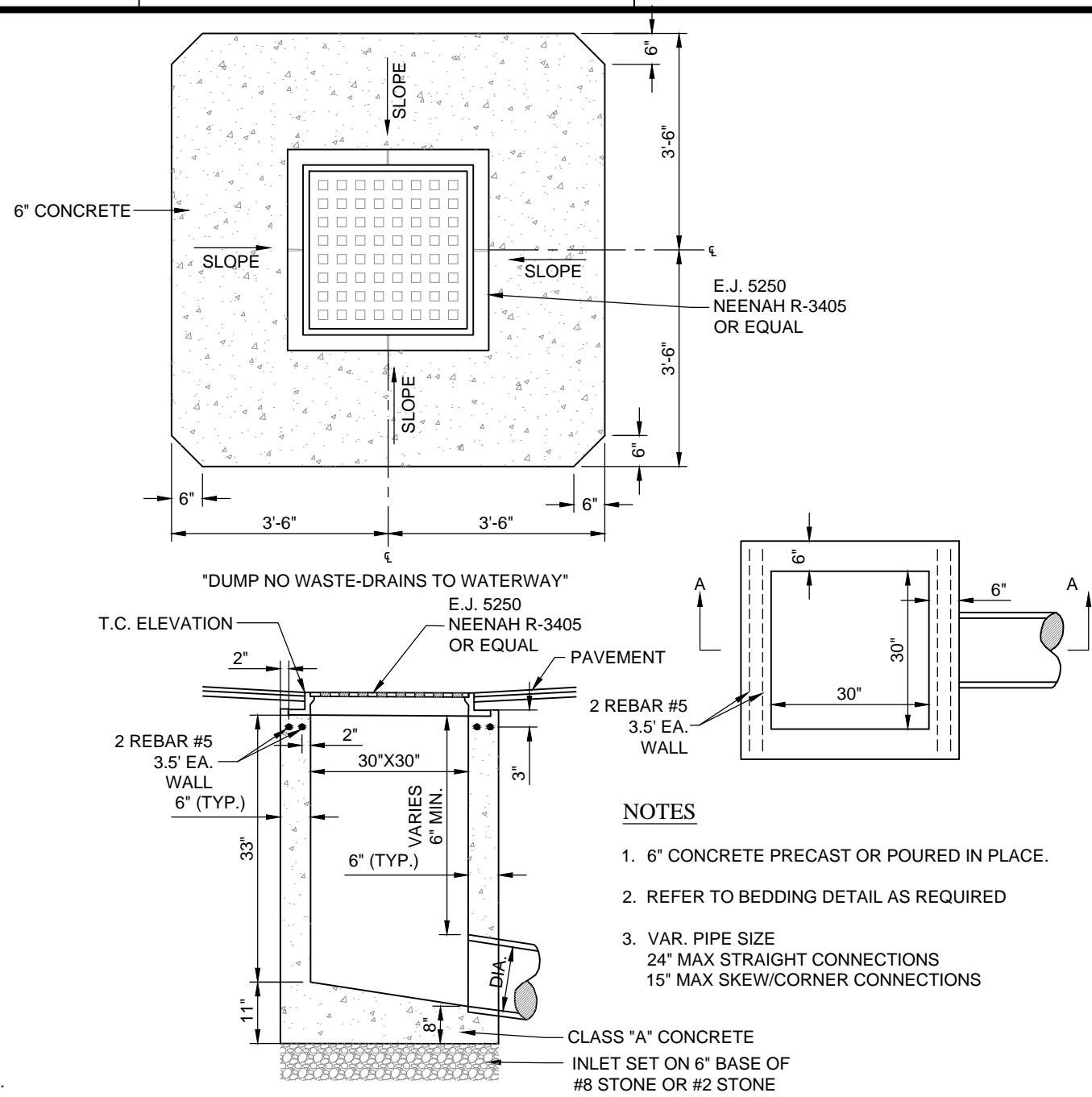


PLAN VIEW



SECTION Y-Y

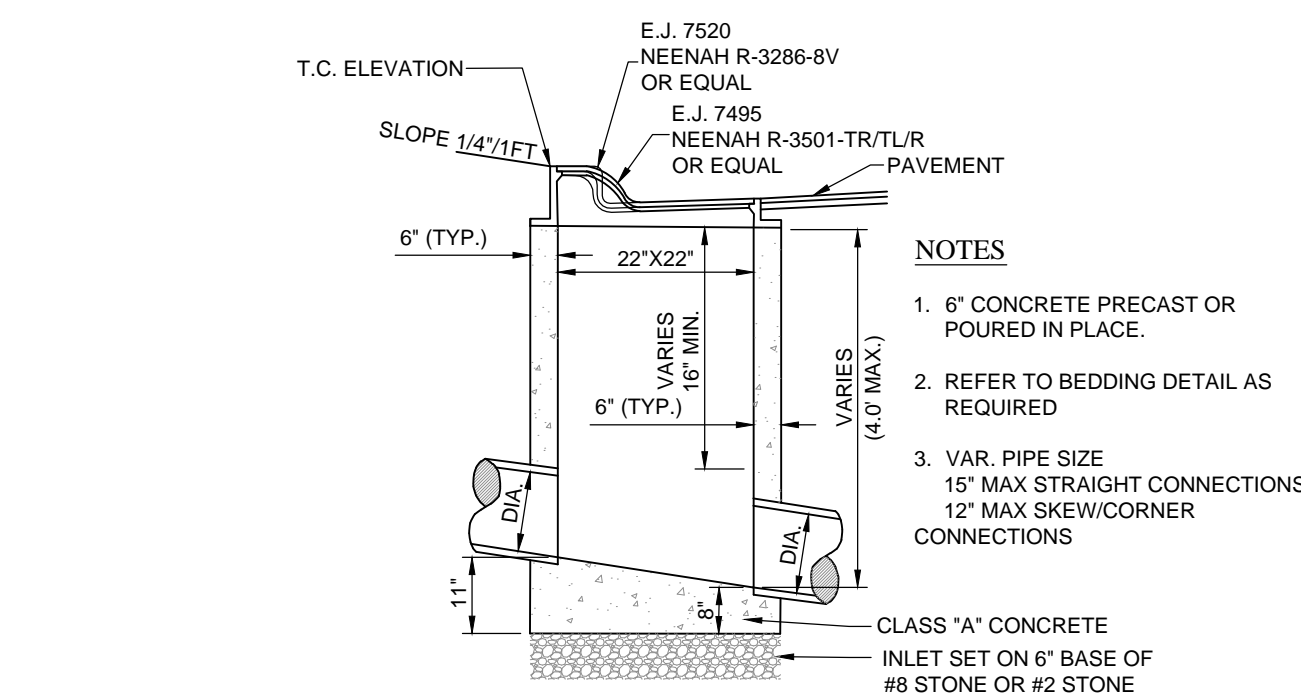
PRECAST CONCRETE END SECTION DETAIL
(NO SCALE)



SECTION A-A

1. STRAIGHT-OUT CONNECTIONS SHOULD NOT BE MADE TO EITHER PRECAST BOX OR INLET WALL TOUCHED BY A SKEW/CORNER CONNECTION UNLESS SUFFICIENT BOX INLET WALL AREA REMAINS ON EACH SIDE OF THE CONNECTING PIPE TO ENSURE STRUCTURAL INTEGRITY OF THE PRECAST BOX.
2. A MAXIMUM OF TWO (2) SKEW/CORNER CONNECTIONS WILL BE ALLOWED FOR EACH PRECAST BOX INLET.
3. REFER TO PRECAST CONCRETE ADJUSTING RING DETAIL AS REQUIRED.

PAVED AREA INLET TYPE "E"
(NO SCALE)



SECTION

1. STRAIGHT-OUT CONNECTIONS SHOULD NOT BE MADE TO EITHER PRECAST BOX OR INLET WALL TOUCHED BY A SKEW/CORNER CONNECTION UNLESS SUFFICIENT BOX INLET WALL AREA REMAINS ON EACH SIDE OF THE CONNECTING PIPE TO ENSURE STRUCTURAL INTEGRITY OF THE PRECAST BOX.
2. A MAXIMUM OF TWO (2) SKEW/CORNER CONNECTIONS WILL BE ALLOWED FOR EACH PRECAST BOX INLET.
3. REFER TO PRECAST CONCRETE ADJUSTING RING DETAIL AS REQUIRED.

CURB INLET TYPE "A"
PIPE SIZES 12" TO 15"
(NO SCALE)

DIA. T (MIN)	A=	C=	D=	E=	K=	R 1	R 2	APPROX. WEIGHT
12"	2"	5"	4'-3"	6'-2"	2'-0"	1.3	10 1/8"	800
15"	2 1/4"	7"	4'-0"	6'-3"	2'-6"	1.5	12 1/2"	1100
18"	2 1/2"	11"	4'-1"	6'-2"	3'-0"	1.8	15 1/2"	1200
21"	2 3/4"	11"	3'-6"	6'-3"	3'-6"	2.1	16 1/8"	1500
24"	3"	1'-0"	2'-8"	6'-3"	4'-0"	2.3	16 3/16"	1800
27"	3 1/4"	1'-1"	2'-5"	6'-3"	4'-6"	2.6	18 9/16"	2100
30"	3 1/2"	1'-2"	1'-10"	6'-3"	5'-0"	2.9	18 1/2"	2400
33"	3 3/4"	1'-3"	3'-6"	8'-3"	5'-6"	3.1	23 3/4"	4100
36"	4"	1'-5"	3'-1"	8'-3"	6'-0"	3.4	24 5/16"	4200

CONCRETE IN THESE END SECTIONS SHALL BE THE SAME GRADE AND STRENGTH AS SPECIFIED FOR REINFORCED CONCRETE PIPE, A.S.T.M. DESIGNATION C-76 CLASS II, (AS SET OUT IN INDOT STANDARD SPECIFICATIONS).

REINFORCEMENT IN THE "C" PORTION SHALL BE THE SAME AS SPECIFIED FOR REINFORCED CONCRETE, A.S.T.M. DESIGNATION C-76 CLASS II, FOR THE SIZE OF CONNECTING PIPE.

REINFORCEMENT IN THE "B" PORTION SHALL HAVE A CROSS SECTIONAL AREA EQUAL TO THAT OF ONE LAYER OF STEEL IN THE "C" PORTION.

THE END OF THE PIPE CULVERT SHALL BE PLACED IN THE CONCRETE END SECTION SO THAT THE FLOW LINES ARE FLUSH. THE JOINT SHALL BE COMPLETELY FILLED WITH MORTAR.

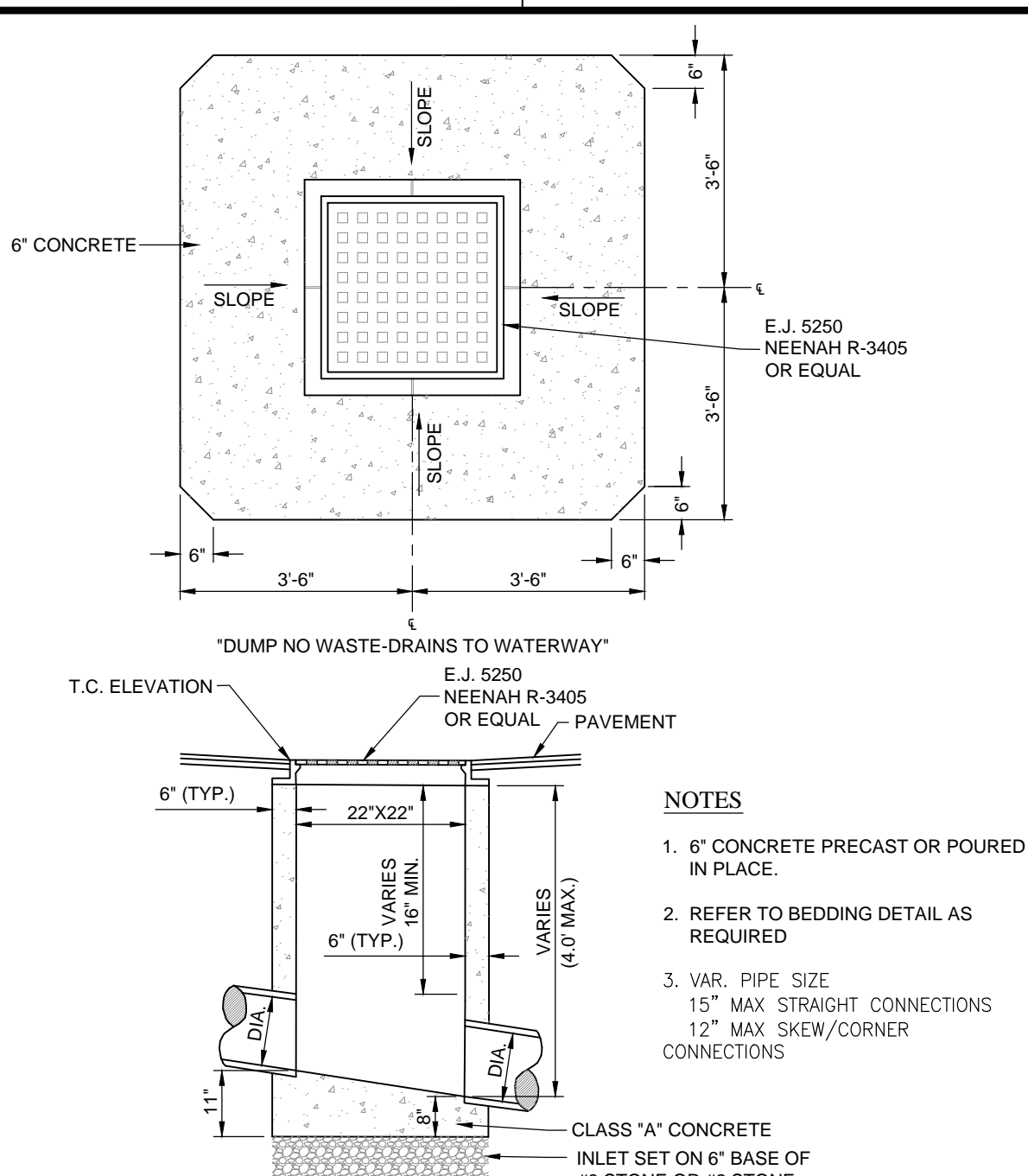
IN 3:1 OR 4:1 FILL SLOPE, CHANGE TO THE SLOPE OF THE END SECTION IN A SMOOTH, PLEASING TRANSITION APPROXIMATELY 10'-0" IN LENGTH.

VARIATIONS IN DIMENSIONS - THE THICKNESS OF THE CONCRETE, THE POSITION OF STEEL, AND THE INTERNAL DIAMETER OF THE PIPE SHALL CONFORM WITH THE VARIATIONS IN DIMENSIONS AS PROVIDED IN THE SPECIFICATIONS FOR REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, A.S.T.M.

WHERE VITRIFIED CLAY CULVERT OR CAST IRON CULVERT PIPE IS USED, A "PIPE END SECTION" COMPARABLE TO THAT AS SHOWN FOR METAL OR CONCRETE SHALL BE FURNISHED AND SHALL BE AS APPROVED BY THE ENGINEER, EXCEPT IN AREAS OF ACID OR MINE WATER THEN THE USE OF METAL END SECTION IS PROHIBITED.

END SECTIONS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "PIPE END SECTION" COMPLETE.

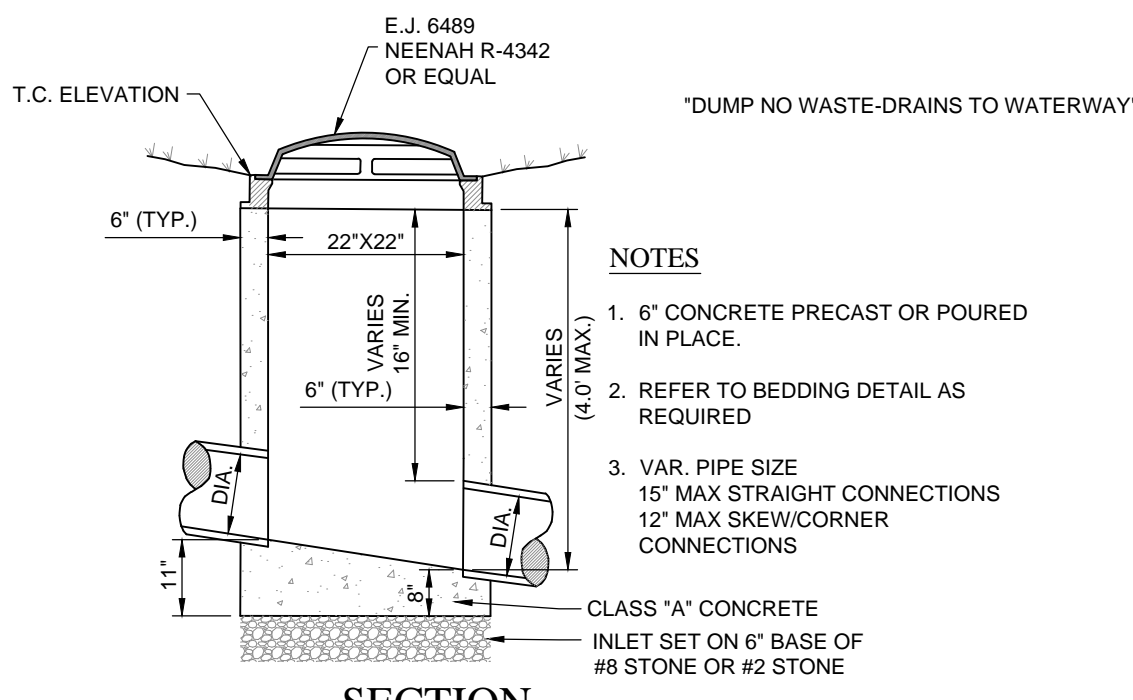
CONCRETE PIPE TOE ANCHORS SHALL BE REQUIRED ON ALL CONCRETE PIPE END SECTIONS. THE COST THEREOF SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER EACH FOR "PIPE END SECTION."



SECTION

1. STRAIGHT-OUT CONNECTIONS SHOULD NOT BE MADE TO EITHER PRECAST BOX OR INLET WALL TOUCHED BY A SKEW/CORNER CONNECTION UNLESS SUFFICIENT BOX INLET WALL AREA REMAINS ON EACH SIDE OF THE CONNECTING PIPE TO ENSURE STRUCTURAL INTEGRITY OF THE PRECAST BOX.
2. A MAXIMUM OF TWO (2) SKEW/CORNER CONNECTIONS WILL BE ALLOWED FOR EACH PRECAST BOX INLET.
3. REFER TO PRECAST CONCRETE ADJUSTING RING DETAIL AS REQUIRED.

PAVED AREA INLET TYPE "A"
PIPE SIZES 12" TO 15"
(NO SCALE)



SECTION

1. STRAIGHT-OUT CONNECTIONS SHOULD NOT BE MADE TO EITHER PRECAST BOX OR INLET WALL TOUCHED BY A SKEW/CORNER CONNECTION UNLESS SUFFICIENT BOX INLET WALL AREA REMAINS ON EACH SIDE OF THE CONNECTING PIPE TO ENSURE STRUCTURAL INTEGRITY OF THE PRECAST BOX.
2. A MAXIMUM OF TWO (2) SKEW/CORNER CONNECTIONS WILL BE ALLOWED FOR EACH PRECAST BOX INLET.
3. REFER TO PRECAST CONCRETE ADJUSTING RING DETAIL AS REQUIRED.

BEEHIVE INLET TYPE "A"
PIPE SIZES 12" TO 15"
(NO SCALE)

REQUIREMENTS FOR ALL STORM SEWER BENCH WALLS

BENCH WALLS SHALL BE SHAPED AND FORMED FOR A CLEAN TRANSITION WITH PROPER HYDRAULICS TO ALLOW THE SMOOTH CONVEYANCE OF FLOWS THROUGH THE MANHOLE OR BOX INLET. THE BENCH WALL SHALL FORM A DEFINED CHANNEL. TO A MINIMUM HEIGHT OF 80-PERCENT OF THE INSIDE DIAMETER OF THE INLET AND OUTLET PIPES TO FORM A "U" SHAPED CHANNEL, CONSTRUCTED AT A MINIMUM 1/4-INCH PER FOOT SLOPE TO THE MANHOLE WALL.

WHERE A FLOW CHANNEL IS CONSTRUCTED AS AN INTEGRAL PART OF THE PRE-CAST BASE, IT SHALL BE SHAPED AND FORMED AS DESCRIBED ABOVE, WITH THE EXCEPTION THAT THE BOTTOM OF THE FLOW CHANNEL MAY BE FORMED FROM THE BOTTOM OF INLET AND OUTLET PIPES IF THE PIPE WALL THICKNESS IS NOT GREATER THAN ONE (1) INCH.

FOR CAST-IN-PLACE FLOW CHANNELS, THE BOTTOM INVERT OF ALL PIPES ENTERING A MANHOLE SHALL BE AT LEAST THREE (3) INCHES ABOVE THE TOP OF THE BASE SLAB TO THE OUTLET INVERT SO THE FINISHED SEWER CHANNEL MAY BE INSTALLED AND SHAPED. FOR CONNECTIONS TO EXISTING STORM SEWER STRUCTURES, FLOW CHANNELS SHALL BE SHAPED, AS SPECIFIED HEREIN, AS IF IT WERE A NEW MANHOLE OR BOX INLET STRUCTURE.

SPECIFICATIONS FOR ALL STORM SEWER CASTINGS

ALL STORM WATER INLETS AND CATCH BASINS SHALL HAVE THE WORDS "NO DUMPING, DRAINS TO STREAM," OR SIMILARLY APPROVED MESSAGE, CAST IN RAISED OR RECESSED LETTERS AT A MINIMUM OF 1" IN HEIGHT. IN ADDITION, A SYMBOL OF A FISH SHALL ALSO BE CAST WITH THE LETTERS.

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

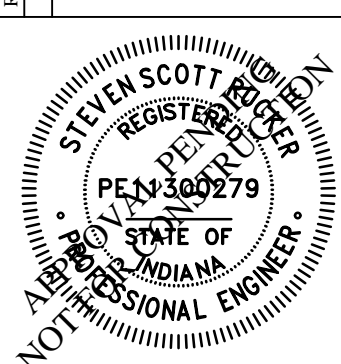
Land Surveying | Civil Engineering
Landscape Architecture

PROJECT NO.:	W15.0351
DWG NAME:	W150351-C600 details.dwg
DESIGNED BY:	BUSBARA
DRAWN BY:	RAM
CHECKED BY:	BUS
DATE:	03.17.2016

DATE:	03.17.2016
BY:	BUS

REVISIONS AND ISSUES	CITY SUBMITTAL
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REVISIONS AND ISSUES	CITY SUBMITTAL
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STEVEN SCOTT RUCKER P.E. 11300279

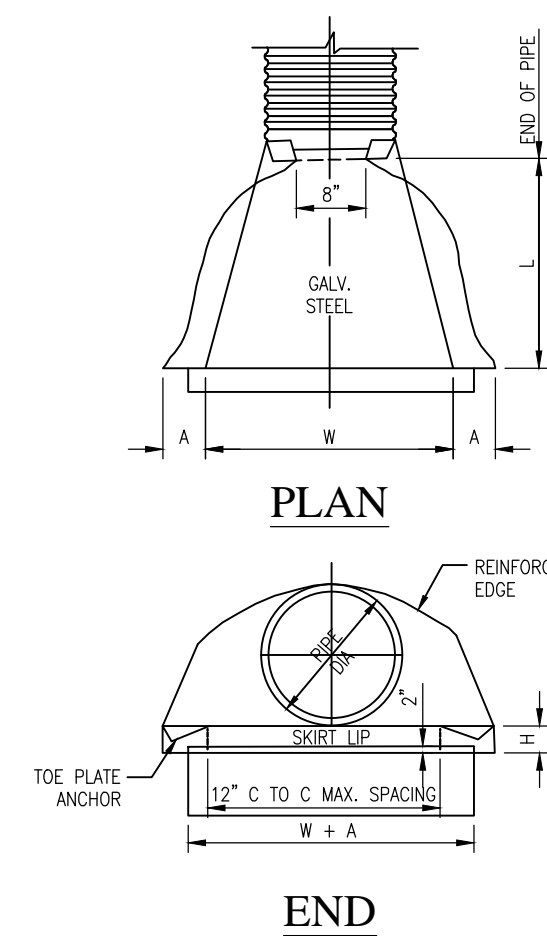
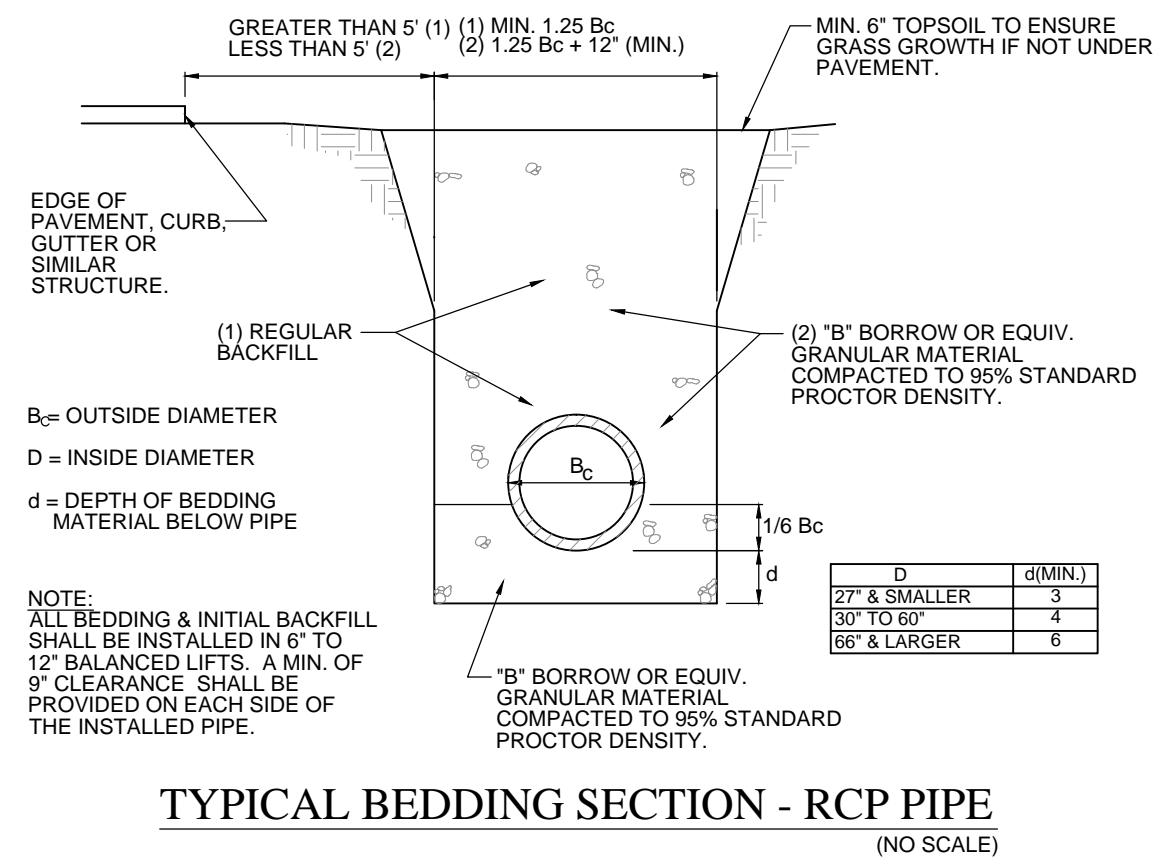
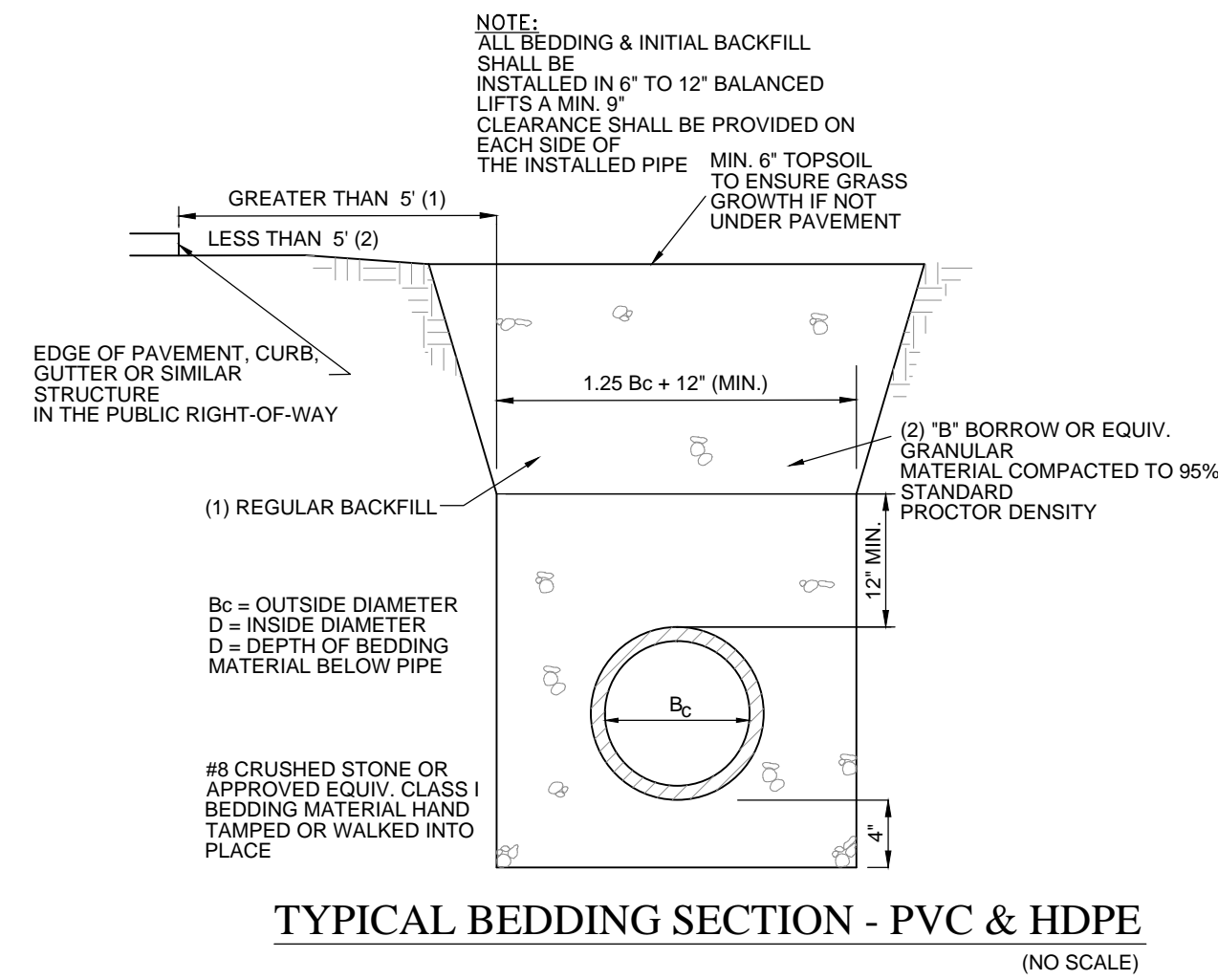
BEEHIVE INLET TYPE "A"
PIPE SIZES 12" TO 15"
(NO SCALE)

PREPARED FOR:
IN FRANKLIN
MORTON, LLC
xxx NORTH MORTON STREET, FRANKLIN, IN 46131

Part of the NE-1/4 of Section 15, Township 12 North, Range 4 East, Franklin Township, Johnson County, Indiana

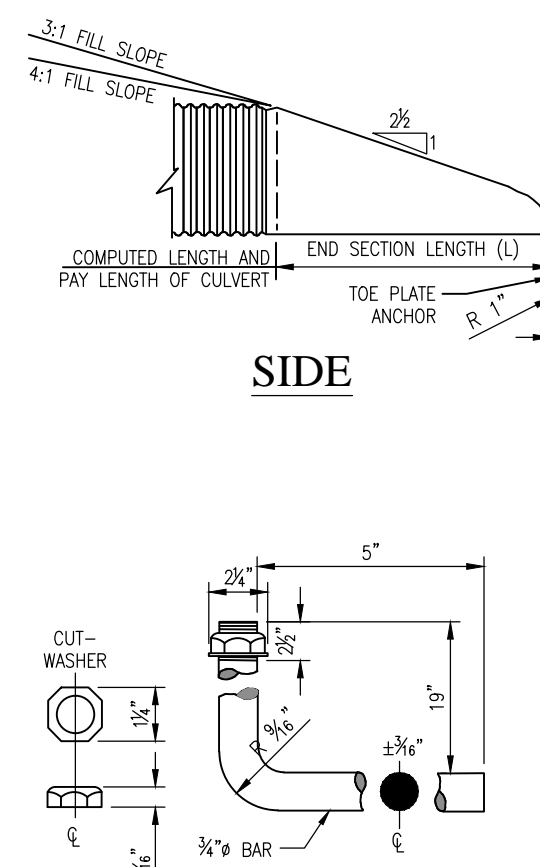
STORM SEWER DETAILS

SHEET NO.
C602
PROJECT NO.
W15.0351



PIPE ARCH. DIMEN.		G.A.	DIMENSIONS					SLOPE (APP.)	BODY
SPAN	RISE		A 1'±	B	H MAX.	L 1.5±	W 2±		
17	13	16	6.5	8.5	6	20	30	2.5	1 PC.
21	15	16	7.5	11	6	24	36	2.5	1 PC.
24	18	16	8	12	6	28	42	2.5	1 PC.
28	20	16	8	16	6	32	48	2.5	1 PC.
35	24	14	10	16	6	39	60	2.5	1 PC.
42	29	14	12	12	7.5	46	75	2.5	1 PC.

PIPE DIA.	G.A.	DIMENSIONS					SLOPE (APP.)	BODY
		A 1 ±	B MAX.	C 1 ±	D 1.5 ±	E 2 ±		
12	16	6	6	6	21	24	2.5	1 PC.
15	16	7	8	6	26	30	2.5	1 PC.
18	16	8	10	6	31	36	2.5	1 PC.
21	16	9	12	6	36	42	2.5	1 PC.
24	16	10	13	6	41	48	2.5	1 PC.
30	14	12	16	8	51	60	2.5	1 PC.
36	14	14	19	9	60	72	2.5	1 PC.

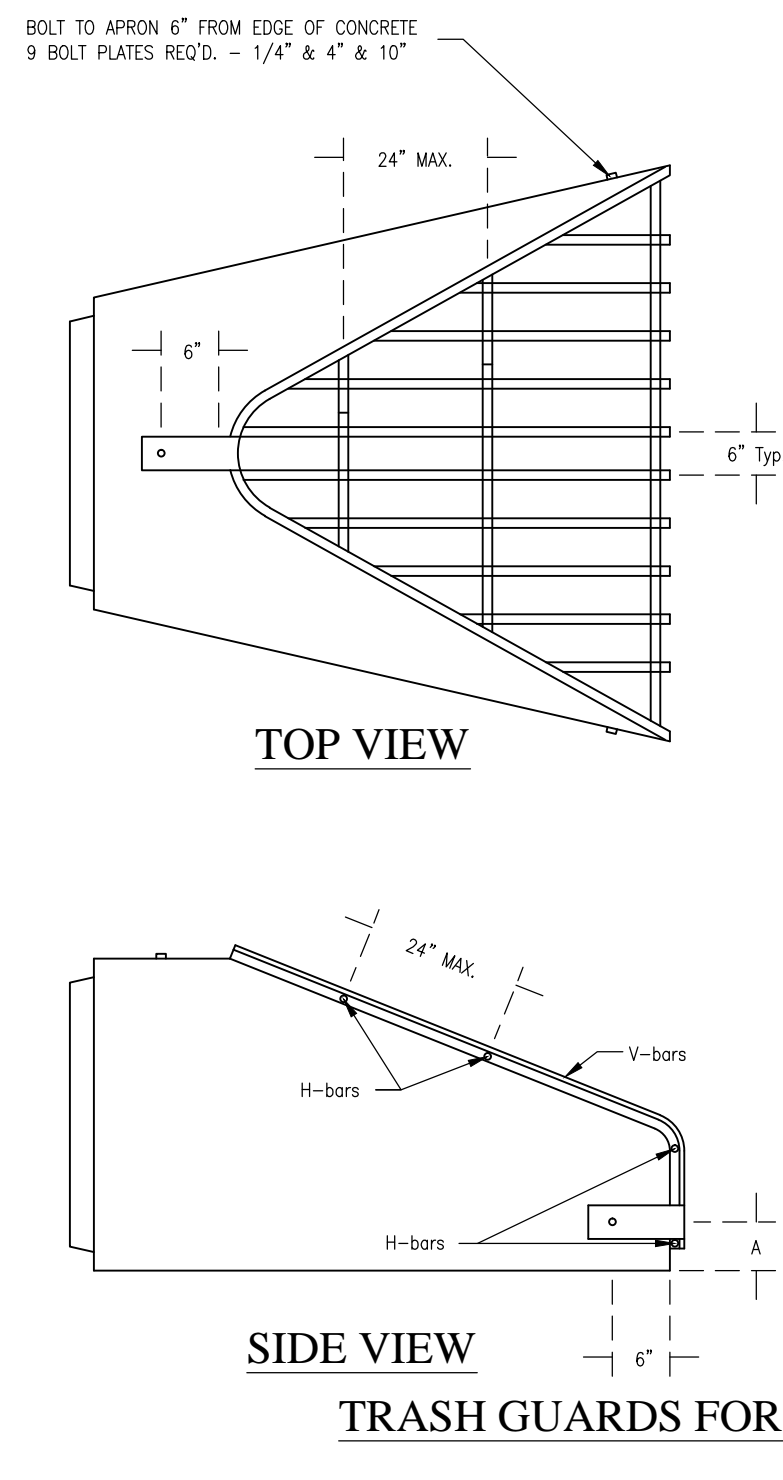


- NOTES:
1. END SECTIONS AND JOINT PLATE ANCHORS SHALL CONFORM TO ALL APPLICABLE REQUIREMENTS AS SET OUT IN THE INDOT STANDARD SPECIFICATIONS.
 2. IF ALUMINUM ALLOY PIPE CULVERT IS FURNISHED, ALUMINUM ALLOY END SECTIONS SHALL ALSO BE USED AND ALL COMPONENT PARTS SHALL BE ALUMINUM ALLOY AS SET OUT IN THE STANDARD SPECIFICATIONS.
 3. MULTIPLE PANEL BODIES SHALL HAVE LAP SEAMS WHICH SHALL BE TIGHTLY JOINED WITH 3/8" DIA. GALVANIZED RIVETS OR BOLTS. THE TOE OF EACH ANCHOR SHALL BE PLASTICIZED OR G LACE.
 4. GALVANIZED STEEL AND BE REQUIRED ON ALL STEEL PIPE END SECTIONS IT SHALL BE MATCHED-PUNCTURED TO FIT HUES IN SKIRT LIP, AND SUPPLIED LOGS, COMPLETE WITH 3/8" DIA. GALVANIZED BOLTS. COST OF EACH ANCHOR SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER EACH FOR "PIPE END SECTION".
 5. WHERE WITRIFIED CLAY CULVERT OR CAST IRON CULVERT PIPE IS USED A "PIPE END SECTION" COMPARABLE TO THAT AS SHOWN FOR METAL OR CONCRETE SHALL BE FURNISHED AND SHALL BE AS APPROVED BY THE ENGINEER.
 6. END SECTIONS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "PIPE END SECTION" COMPLETE IN PLACE AND ACCEPTED.
 7. PIMPLED CONNECTION BAND MAY BE USED TO CONNECT PIPE END SECTION TO HELICALLY CORRUGATED PIPE.
 8. MECHANICAL RESTRAINTS TO BE USED PER LOCAL REQUIREMENTS.

SPECIFICATIONS FOR HOOK BOLT AND NUT:

HOOK BOLT MATERIAL SHALL MEET THE CURRENT A.S.T.M. A-307.
 THREADS SHALL BE AMERICAN STANDARD COARSE THREAD SERIES, CLASS II
 FREE FIT. BOLTS SHALL BE GALVANIZED TO MEET CURRENT A.S.T.M. SPECIFICATION A-157. THE THREE-THREADED PORTION SHALL NOT PREVENT
 TURNING THE NUT BY HAND. NUT AND WASHERS SHALL BE CARBON
 STEEL HOT DIP GALVANIZED TO MEET A.S.T.M. SPECIFICATION A-153. NUT
 THREADS SHALL BE AMERICAN STANDARD COARSE THREAD SERIES (1/64
 MAXIMUM OVERSIZE), CLEANED AFTER GALVANIZING TO PROVIDE A FREE
 RUNNING FIT ON THE CLASS II NUTS. BOLTS SHALL BE 1 1/4" ACROSS
 FLATS, 13/16" THICK, CURVE CROWNED TO APPROX. 1" RADIUS.

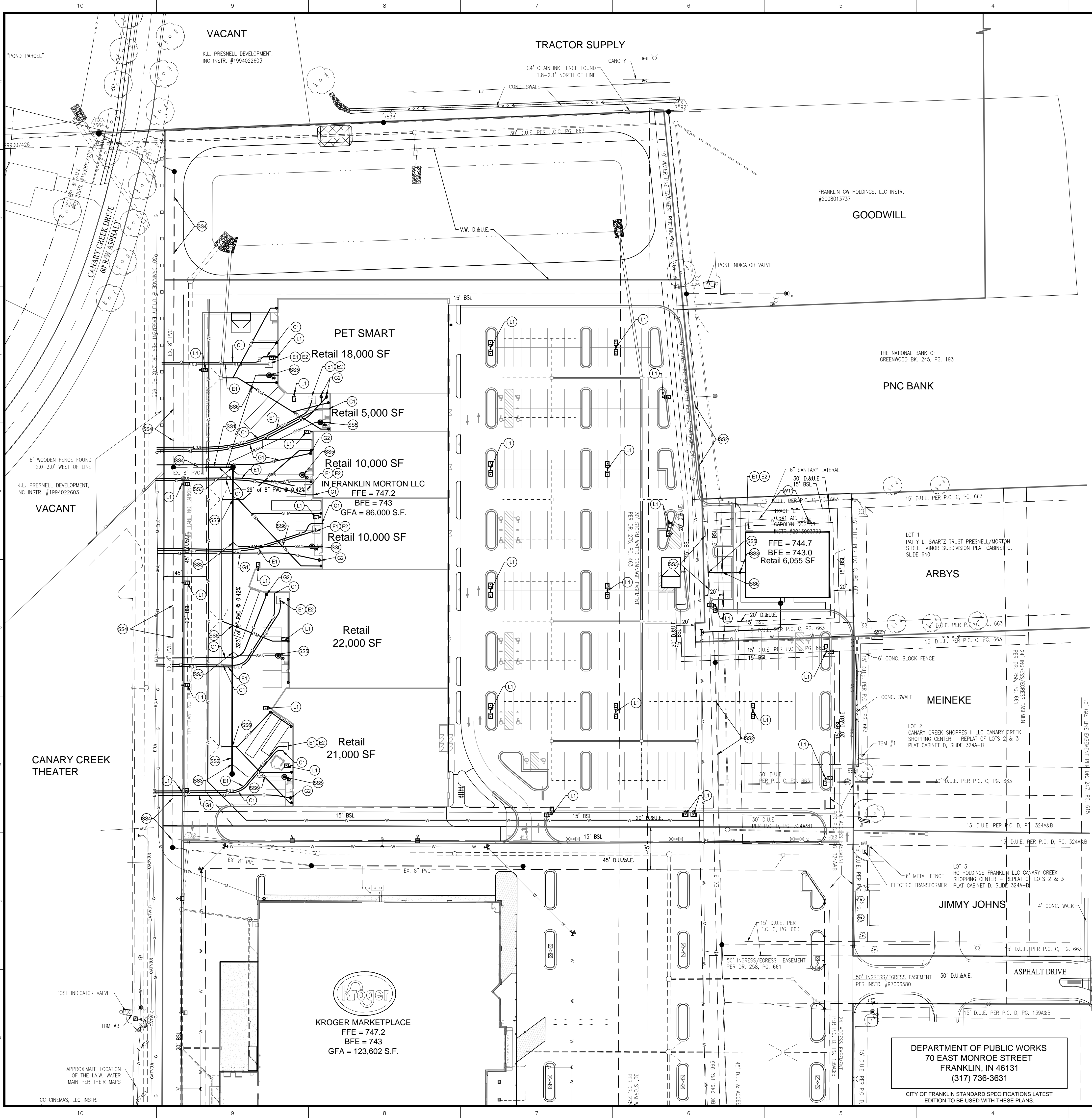
METAL END SECTION
(NO SCALE)



Arch Pipe Approx	Apron Size	V-bar Size	H-bar Size	No. of H-bars Req'd	Bolt Dia.	"A" Dim.	
	Inches			Inches			
18	1 1/2	5/8	5/8	3	1/2	5	
24	1 5/8	3/4	5/8	4	1/2	7	
30	5/8	3/4	5/8	4	1/2	7 1/2	
36	3/4	1	5/8	4	1/2	10 1/2	
42	3/4	1	5/8	4	3/4	11	
48	3/4	1 1/2	Pipe	4	3/4	12	
54	3/4	1 1/2	Pipe	4	3/4	12 1/2	
60	3/4	1 1/2	Pipe	5	3/4	14	
72	3/4	1 1/2	Pipe	5	3/4	14	
84	3/4	1 1/2	Pipe	6	3/4	15	
Round Pipe Approx	12	1 1/2	5/8	3	1/2	4	
	15	1 1/2	5/8	3	1/2	4 1/2	
	18	1 1/2	5/8	4	1/2	4 1/2	
	21	1 1/2	5/8	4	1/2	5	
	24	5/8	3/4	4	1/2	5	
	27	5/8	3/4	4	1/2	5 1/2	
	30	5/8	3/4	4	1/2	5 1/2	
	36	3/4	1	4	3/4	8	
	42	3/4	1	4	3/4	8	
	48	3/4	1	5	3/4	8	
	54	3/4	1 1/2	Pipe	5	3/4	8
	60	3/4	1 1/2	Pipe	5	3/4	8
	66	3/4	1 1/2	Pipe	6	3/4	8
	72	3/4	1 1/2	Pipe	6	3/4	9
	84	3/4	1 1/2	Pipe	7	3/4	10
	90	3/4	1 1/2	Pipe	7	3/4	14

- NOTES:
1. BARS & PLATES ARE HOT-ROLLED STEEL.
 2. BARS, PLATES, & PIPE ARE FINISHED WITH 2 COATS OF ALUMINUM PAINT.
 3. BOLTS ARE GALVANIZED.
 4. NO REBAR THROUGH PIPES WILL BE ALLOWED.
 5. DEBRIS GUARD SHALL BE REMOVABLE.

LOCATION: H:\2015\W150351\Engineering\Design\Consent\W150351-C800_uil.dwg
DATE/TIME: March 17, 2016 - 12:11pm
PLOTTER: B7: angara



UTILITY PLAN NOTES

SANITARY SEWER NOTES

- (S1) CONNECT THE PROPOSED SANITARY SEWER MAIN TO THE EXISTING 8" SANITARY STUB PIPE. PROVIDE TRACER WIRE OVER THE MAIN PER DPW STANDARDS.
- (S2) PROPOSED 8" SANITARY SEWER MAIN EXTENSION.
- (S3) CONNECT PROPOSED 6" SANITARY SEWER LATERAL TO THE PROPOSED SANITARY SEWER MAIN. COORDINATE CONNECTION WITH MEP. PROVIDE CLEANOUTS AS REQUIRED/SHOWN. VERIFY INVERTS ON EXISTING LINE AND COORDINATE CONDITIONS WITH MEP. ADJUST AS REQUIRED.
- (S4) EXISTING 8" SANITARY SEWER.
- (S5) PROPOSED SANITARY LATERAL CLEANOUT TYPE 2 (IN PAVED AREAS OUTSIDE OF 3' OF BUILDING). REFER TO DETAIL ON SHEET C801.
- (S6) PROVIDE 18" MINIMUM VERTICAL CLEARANCE BETWEEN SANITARY/WATER/STORM SEWER PIPES AND ALL OTHER PIPES. INSTALL CONCRETE CRADLE IF CLEARANCE IS LESS THAN 18"

WATER SERVICE NOTES:

- (W1) COORDINATE AND CONNECT THE 8" WATER SERVICE TO THE EXISTING 12" WATER MAIN WITH A TAPPING SLEEVE AND VALVE. THIS TAP TO BE OBSERVED BY A REPRESENTATIVE FROM I.A.W. BEFORE THE CONNECTION CAN BE MADE TO THE METER VAULT. CONTACT INDIANA AMERICAN WATER PRIOR TO ANY INSTALLATION.
- (W2) PROPOSED FIRE HYDRANT ASSEMBLY TO BE RED WITH TOP CAP COLOR CODED TO SHOW WATER FLOW (1500 GPM-BLUE, 1000-1400-GREEN, 500-999-ORANGE) AND CONTAIN A S.T.O.R.Z. CONNECTION.
- (W3) 2" WATER METER SET, VALVES, ETC. TO BE LOCATED INSIDE THE METER PIT IN ADDITION TO THE WATER VAULT.
- (W4) FIRE DEPARTMENT CONNECTION (6" PVC, C900 D.R.18) TO BE LOCATED ON THE METER VAULT AND CONTAIN A 30 DEGREE DOWN TURN S.T.O.R.Z. CONNECTION.
- (W5) PROPOSED WATER VALVE.
- (W6) PROPOSED 8" PVC, C900 D.R. 18 FIRE SERVICE LINE
- (W7) PROPOSED 2" SDR 21 CLASS 200 DOMESTIC SERVICE LINE TO TAP THE 8" PRIVATE MAIN PRIOR TO THE VAULT AS SHOWN. ADJUST IN THE FIELD AS NEEDED. SEE DETAIL 2.
- (W8) PROVIDE POST INDICATOR VALVE (P.I.V.) TO BE ELECTRONICALLY MONITORED.
- (W9) WATER VAULT AND ASSOCIATED BACKFLOW PREVENTER, VALVES, ETC. TO BE LOCATED INSIDE THE METER VAULT PER INDIANA AMERICAN WATER DETAILS AND SPECIFICATIONS
- (W10) FIRE SERVICE LINE FROM THE TAPPING SLEEVE AND VALVE ASSEMBLY TO THE DOUBLE DETECTOR CHECK ASSEMBLY SHALL BE 8" PVC C900 DR-14. PIPE BEDDING FOR THIS SECTION TO BE COMPACTED 3/4 CLEAN GRANULAR FILL MATERIAL FROM 6" BELOW THE PIPE TO BOTTOM OF PIPE.
- (W11) DO NOT DISRUPT THE ARBY'S SERVICE LINE AND METER CONNECTION.

ELECTRIC NOTES:

- (E1) COORDINATE AND CONNECT ELECTRICAL LINE FROM SERVICE DROP LOCATION TO TRANSFORMER. COORDINATE CONNECTION WITH POWER COMPANY AND ELECTRICAL DRAWINGS. ADJUST AS REQUIRED. 2-4" EC CONDUITS TO BE INSTALLED WITH PULL STRINGS.
- (E2) PROPOSED TRANSFORMER PAD LOCATION. COORDINATE WITH UTILITY PROVIDER IF A NEW TRANSFORMER IS REQUIRED.

COMMUNICATION NOTES:

- (C1) COORDINATE AND CONNECT BUILDING COMMUNICATION SERVICE LINE(S) TO CONNECTION POINT AS SHOWN. ADJUST AS REQUIRED. 2-4" PVC CONDUITS TO BE INSTALLED WITH PULL STRINGS.

GAS SERVICE NOTES:

- (G1) CONNECT PROPOSED GAS SERVICE TO EXISTING GAS LINE. REFER TO PLUMBING DRAWINGS AND COORDINATE WITH SERVICE PROVIDER.
- (G2) PROPOSED GAS METER LOCATION. REFER TO PLUMBING DRAWINGS AND COORDINATE WITH SERVICE PROVIDER.

LIGHTING CONDUIT NOTES

- (L1) INSTALL SCHEDULE 40 PVC PLASTIC CONDUIT AND TYPE TW WIRE. TO BE LOCATED BELOW ANY PAVING AND AGGREGATE SUBGRADE.

UTILITY PLAN LEGEND

- | UTILITIES | |
|-----------------------------|-----------------------------|
| FIRE DEPT HOOKUP | COMMUNICATIONS JUNCTION BOX |
| FIRE HYDRANT | COMMUNICATIONS MANHOLE |
| POST INDICATOR VALVE | COMMUNICATIONS PEDESTAL |
| WATER METER | COMMUNICATIONS RISER |
| WATER VALVE | TRAFFIC SIGNAL |
| GAS METER | STORM CLEANOUT |
| GAS VALVE | CURB INLET |
| ELECTRIC MANHOLE | FLOOR DRAIN |
| ELECTRIC METER | SQUARE INLET |
| ELECTRIC RISER | STORM MANHOLE |
| TRANSFORMER | DOWN SPOUT |
| GUY ANCHOR | SANITARY SEWER CLEANOUT |
| ELECTRIC JUNCTION BOX | SANITARY SEWER MANHOLE |
| GENERATOR | SANITARY STUB MARKER |
| UTILITY POLE | |
| UTILITY POLE W/ TRANSFORMER | |
| ORNAMENTAL LIGHT | |
| STREET LIGHT | |
| PARKING LOT LIGHT (1 HEAD) | FLAG POLE |
| PARKING LOT LIGHT (2 HEAD) | SIGN |
| PARKING LOT LIGHT (3 HEAD) | POST |
| PARKING LOT LIGHT (4 HEAD) | BOLLARD |
| | PARKING WHEEL STOP |
| | HANDICAPPED SPACE |

ABBREVIATIONS

- | | |
|--------|--------------------------------|
| ROW | RIGHT OF WAY |
| ESMT | EASEMENT |
| D.U.E. | DRAINAGE AND UTILITY EASEMENT |
| FFE | FINISH FLOOR ELEVATION |
| TCC | TOP OF CASTING |
| CMP | CORRUGATED METAL PIPE |
| RCP | REINFORCED CONCRETE PIPE |
| PVC | POLYVINYL CHLORIDE PIPE |
| VCP | VITRIFIED CLAY PIPE |
| HDPE | HIGH DENSITY POLYETHYLENE PIPE |
| DIP | DUCTILE IRON PIPE |
| SSD | SUB SURFACE DRAIN PIPE |
| STM | STORM |
| SAN | SANITARY |
| STR | STRUCTURE |
| CO | CLEANOUT |

PLAN CERTIFICATE NOTE:

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

FINAL DRAWINGS FOR THE IN FRANKLIN MORTON, LLC SITE WERE PREPARED BY WEIHE ENGINEERS, INC. AND STEVEN SCOTT RUCKER. FINAL CONSTRUCTION PLANS ARE THOSE PLANS CONTAINING A FINAL REVISION DATE AFTER 03/17/2016. WEIHE ENGINEERS, INC. AND STEVEN SCOTT RUCKER ACCEPT RESPONSIBILITY ONLY FOR THE IN FRANKLIN MORTON, LLC SITE IMPROVEMENTS RELATED TO THE ENGINEERING WORK SHOWN ON THESE PLANS.

GENERAL UTILITY NOTES

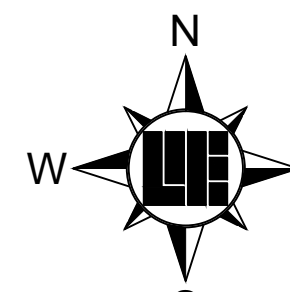
- THE CONTRACTOR SHALL CONTACT APPLICABLE STATE UNDERGROUND LOCATION SERVICE AT LEAST 72 HOURS PRIOR TO ANY WORK AND SHALL CONTACT THE OWNER AND/OR ENGINEER SHOULD UTILITIES APPEAR TO BE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- THE PLANS SHOW THE LOCATION OF ALL KNOWN UTILITIES LOCATED WITHIN THE LIMITS OF CONSTRUCTION ACCORDING TO INFORMATION PROVIDED BY THE VARIOUS UTILITY COMPANIES. PREVIOUS CONSTRUCTION PLANS AND AS EVIDENCED BY OBSERVATION OF ABOVE GROUND CONDITIONS BY THE SURVEYOR. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED.
- THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES TO LOCATE MAINS, CONDUITS, SERVICE LINES, ETC. WITHIN THE CONSTRUCTION LIMITS. 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.
- THE CONTRACTOR SHALL CONTACT ALL APPLICABLE UTILITIES AND VERIFY ANY AND ALL FEES ASSOCIATED WITH THE INSTALLATION OF ALL UTILITIES.
- ALL CONSTRUCTION ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH O.S.H.A. STANDARDS FOR WORKER SAFETY.
- ANY PART OF SANITARY OR STORM SEWER TRENCHES RUNNING UNDER OR WITHIN 5' OF PAVEMENT TO BE BACKFILLED WITH GRANULAR MATERIAL.
- IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY LOCATION, SIZE, AND ELEVATION OF EXISTING UTILITIES, STRUCTURES, PIPES, PAVEMENTS, ETC. AS RELATED TO THEIR WORK. NOTIFY ENGINEER OF ANY CONFLICT AND/OR DISCREPANCIES IN THE CONSTRUCTION DOCUMENTS.
- MAINTAIN 10' HORIZONTAL AND 18" VERTICAL CLEARANCE BETWEEN STORM/ SANITARY SEWER SYSTEMS AND DOMESTIC/FIRE LINE SERVICE. SANITARY SEWER LINE IN PROXIMITY OF WATER LINE SHALL BE C900 WATER MAIN GRADE PVC.
- CONTRACTOR TO INSTALL CONCRETE CRADLES WHEN THE VERTICAL SEPARATION (AS MEASURED FROM THE EXTERIOR OF THE PIPES) BETWEEN SANITARY SEWERS, WATER MAINS AND STORM SEWERS IS 18" OR LESS.
- IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
- WHEN PERFORMING EXCAVATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.
- COMPACTED "B" BORROW BACK FILL REQUIRED OVER ALL UTILITIES IN PAVED AREAS.
- ALL UTILITY STRUCTURES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT AND SHALL HAVE TRAFFIC BEARING RING AND COVERS.
- PROVIDE THRUST BLOCKS FOR ALL WATER LINE BENDS AND TEES, INCLUDING TAP CONNECTION.
- CONTRACTOR SHALL COORDINATE WITH WATER COMPANY FOR DOMESTIC AND FIRE SERVICE. CONNECT TO BUILDING DOMESTIC AND FIRE LINE. COORDINATE WITH PLUMBING DRAWINGS.
- COORDINATE LOCATION OF ELECTRICAL AND COMMUNICATION LINES WITH LOCAL UTILITIES.
- COORDINATE LOCATION OF REQUIRED CONDUITS FOR ELECTRIC SERVICE, LIGHT POLES, COMMUNICATION SERVICE AND IRRIGATION SYSTEM.
- COORDINATE LOCATION AND SIZE OF GAS SERVICE CONNECTION AND INSTALLATION OF SERVICE LINE AND METER WITH GAS COMPANY.
- COORDINATE LOCATIONS AND CONNECTIONS OF BUILDING STORM LINES WITH PLUMBING DRAWINGS.
- FOLLOW ALL LOCAL AND STATE CODES IN REFERENCE TO DOMESTIC/FIRE LINE INSTALLATION AND STORM SEWER/ SANITARY SEWER INSTALLATION.
- SANITARY SEWER LATERAL, WATER SERVICE, & ELECTRICAL/COMMUNICATION CONDUITS SHALL BE GRANULAR BACKFILL FOR ENTIRE RUN.
- ALL EXISTING MANHOLE AND CATCH BASIN GRATES, WATER OR GAS VALVES SHALL BE ADJUSTED TO NEW FINISH GRADE ELEVATIONS.

PAVEMENT

- | | |
|--|-----------------------|
| | STANDARD DUTY ASPHALT |
| | HEAVY DUTY ASPHALT |
| | CONCRETE PAVEMENT |

LINE TYPES

- | | |
|--|-------------------------|
| | SANITARY SEWER LATERAL |
| | SANITARY SEWER MAIN |
| | UNDERGROUND WATER |
| | AERIAL ELECTRIC |
| | UNDERGROUND ELECTRIC |
| | OVERHEAD UTILITY |
| | COMMUNICATIONS |
| | AERIAL COMMUNICATIONS |
| | UNDERGROUND FIBER OPTIC |
| | UNDERGROUND GAS |
| | STORM SEWER MAIN |
| | ROOF DRAIN |
| | SUB SURFACE DRAIN |
| | FLOW LINE |
| | RIGHT OF WAY LINE |
| | FENCE |
| | GUARD RAIL |
| | BOUNDARY LINE |



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

WEIHE ENGINEERS
Land Surveying/Civil Engineering
Landscape Architecture

PROJECT NO.: W15.0351
DWG NAME: W150351-C800_uil.dwg
DESIGNED BY: BUSRAM
DRAWN BY: RAM
CHECKED BY: BUS
DATE: 03/17/2016

DATE: 03/17/2016
BY: BUS

REVISIONS AND ISSUES
CITY SUBMITTAL

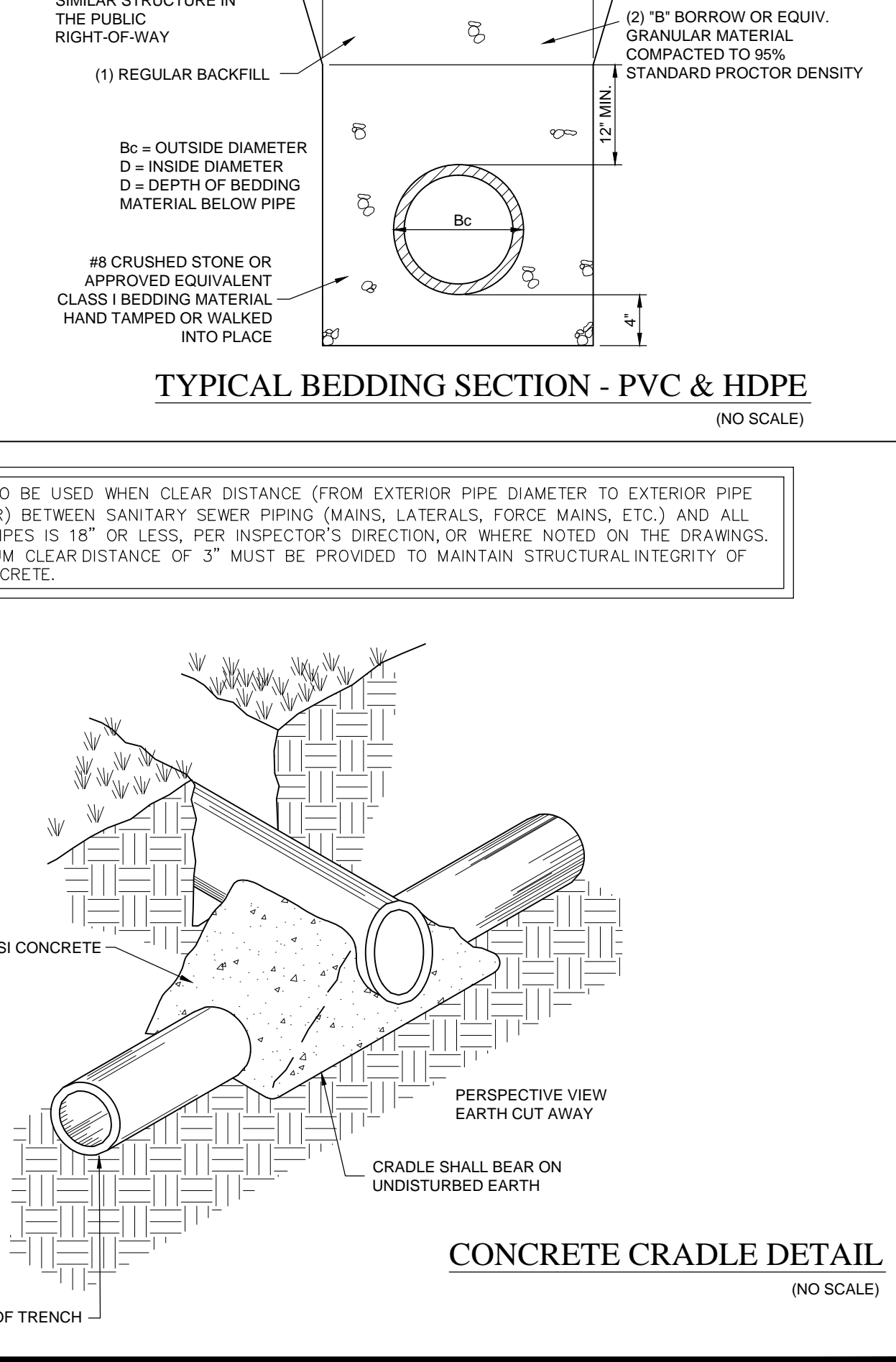
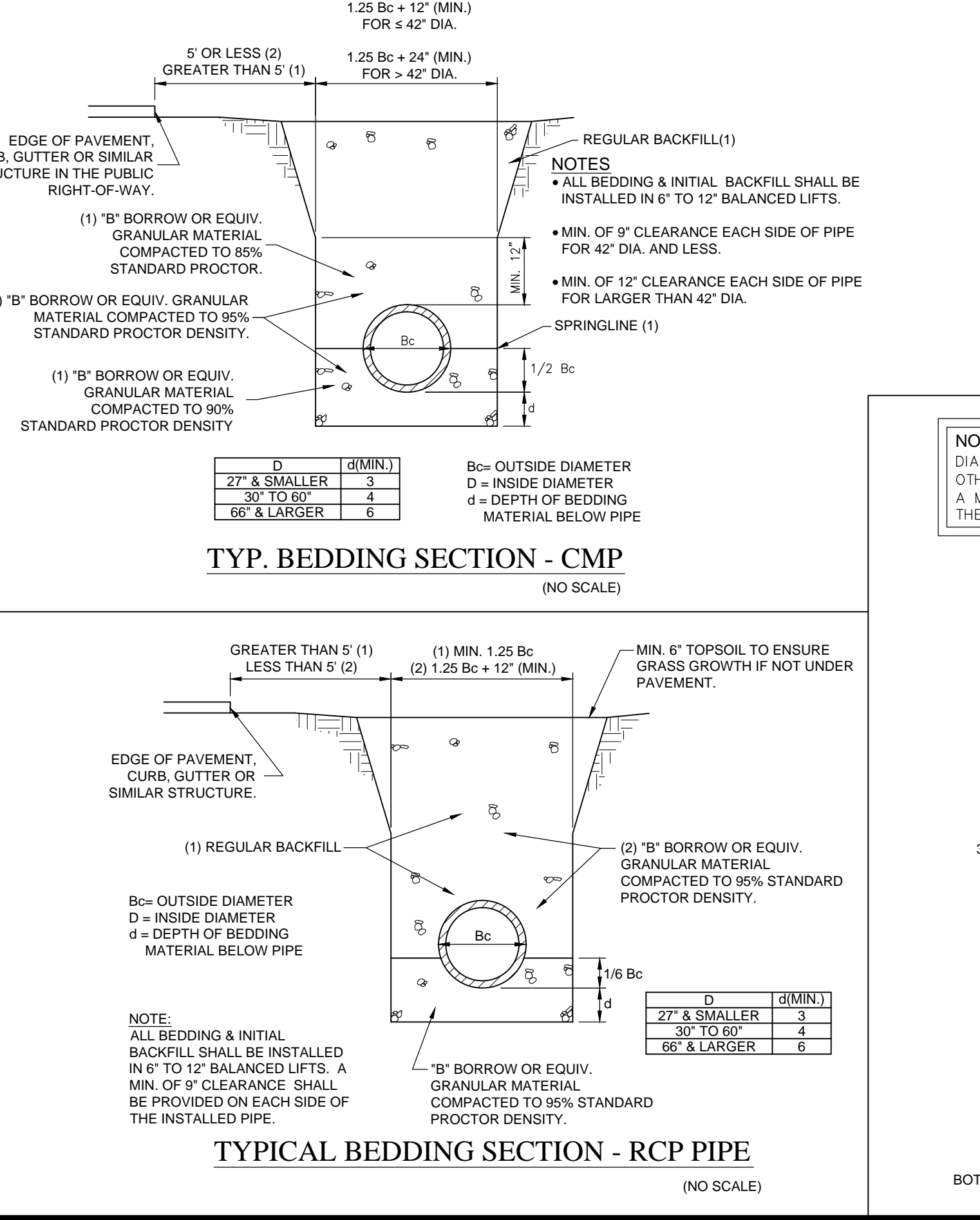
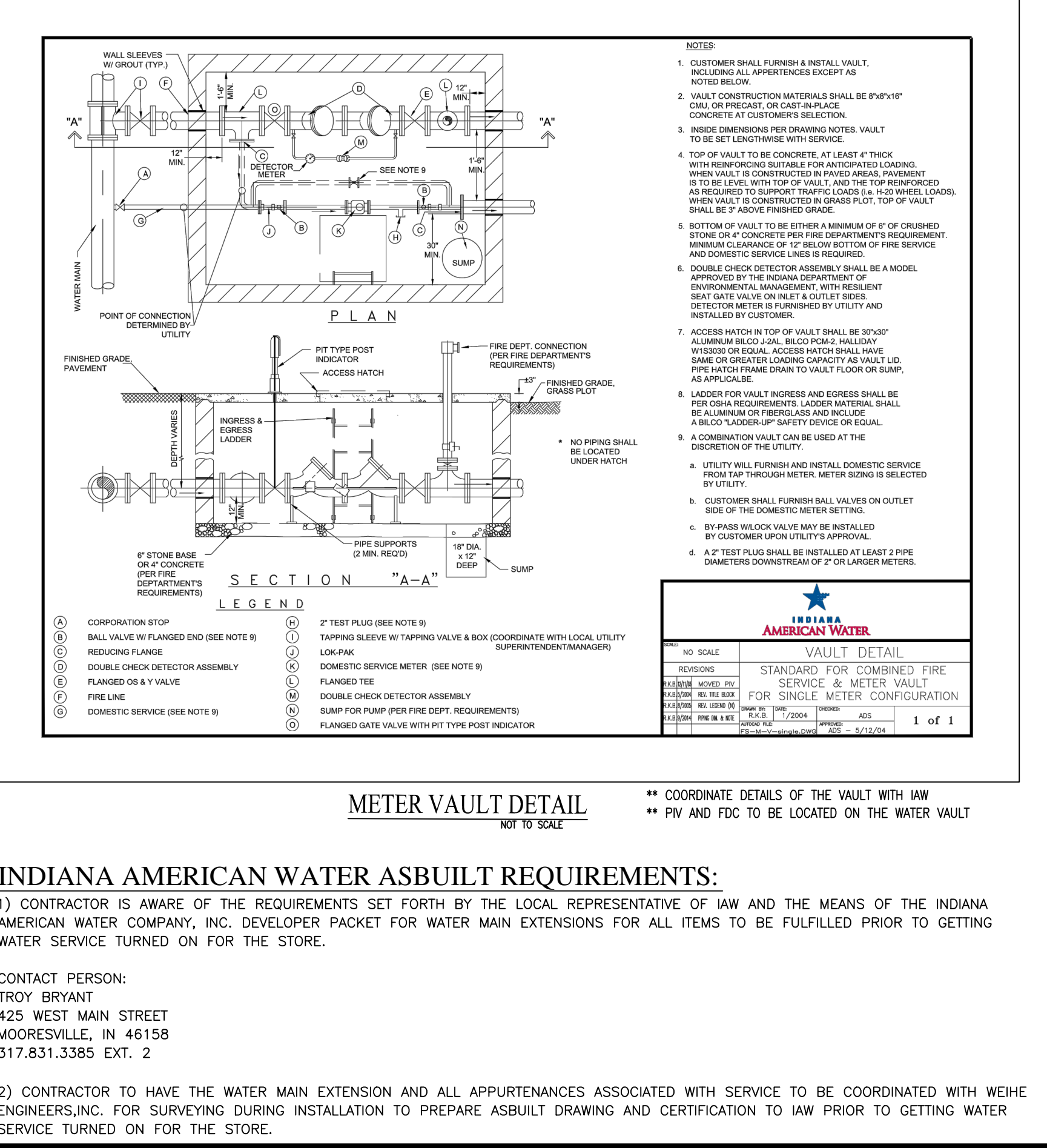
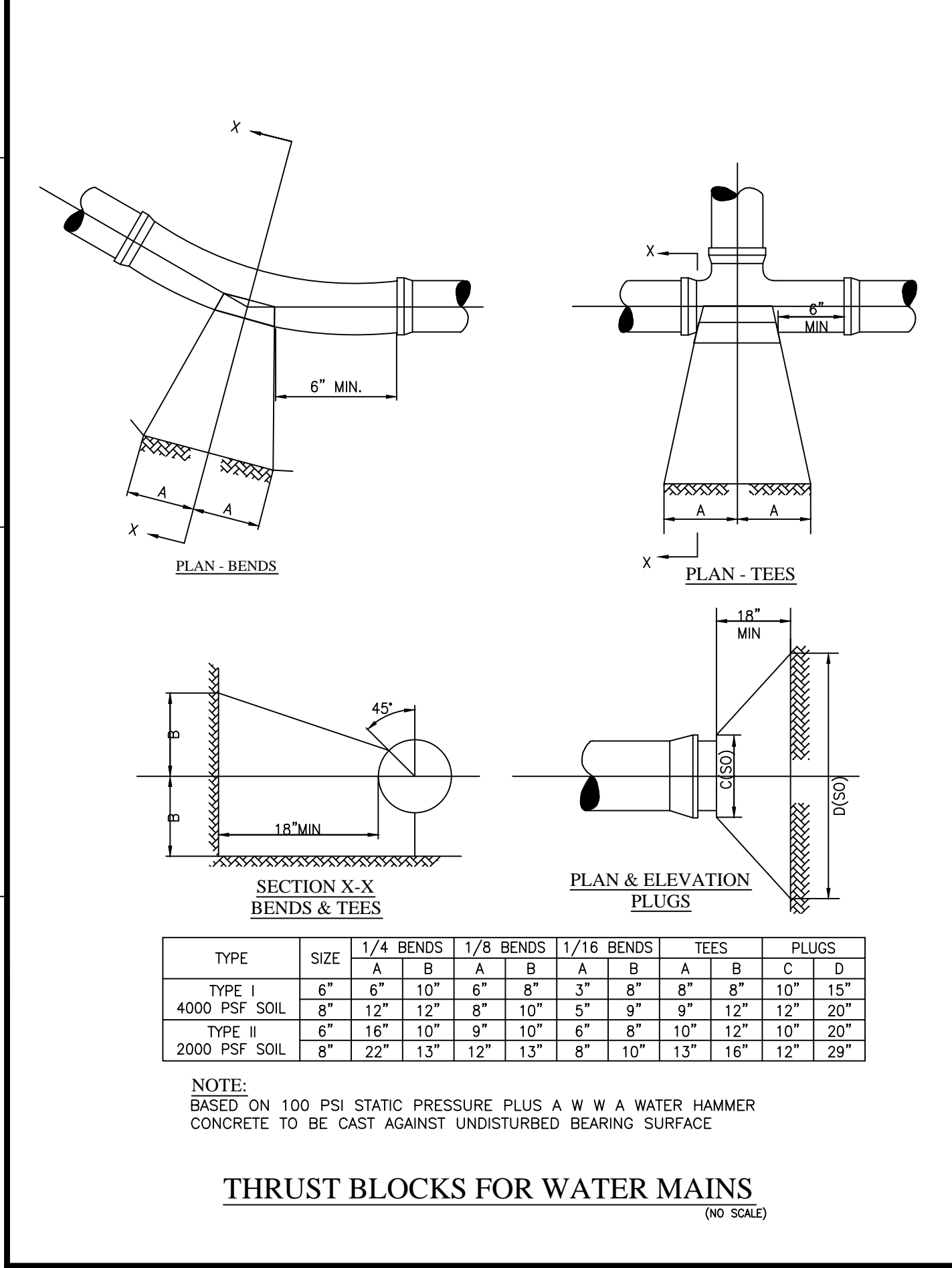
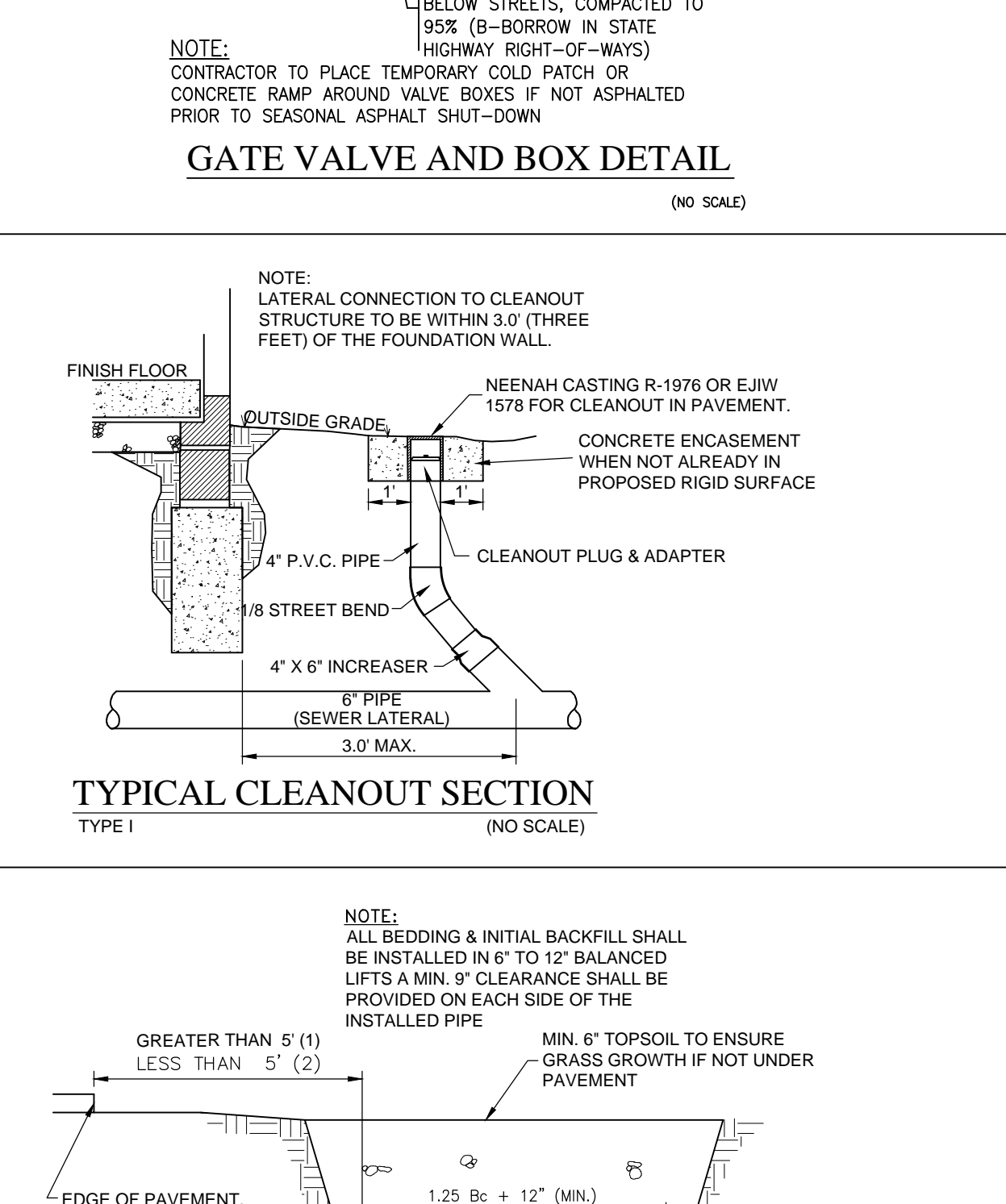
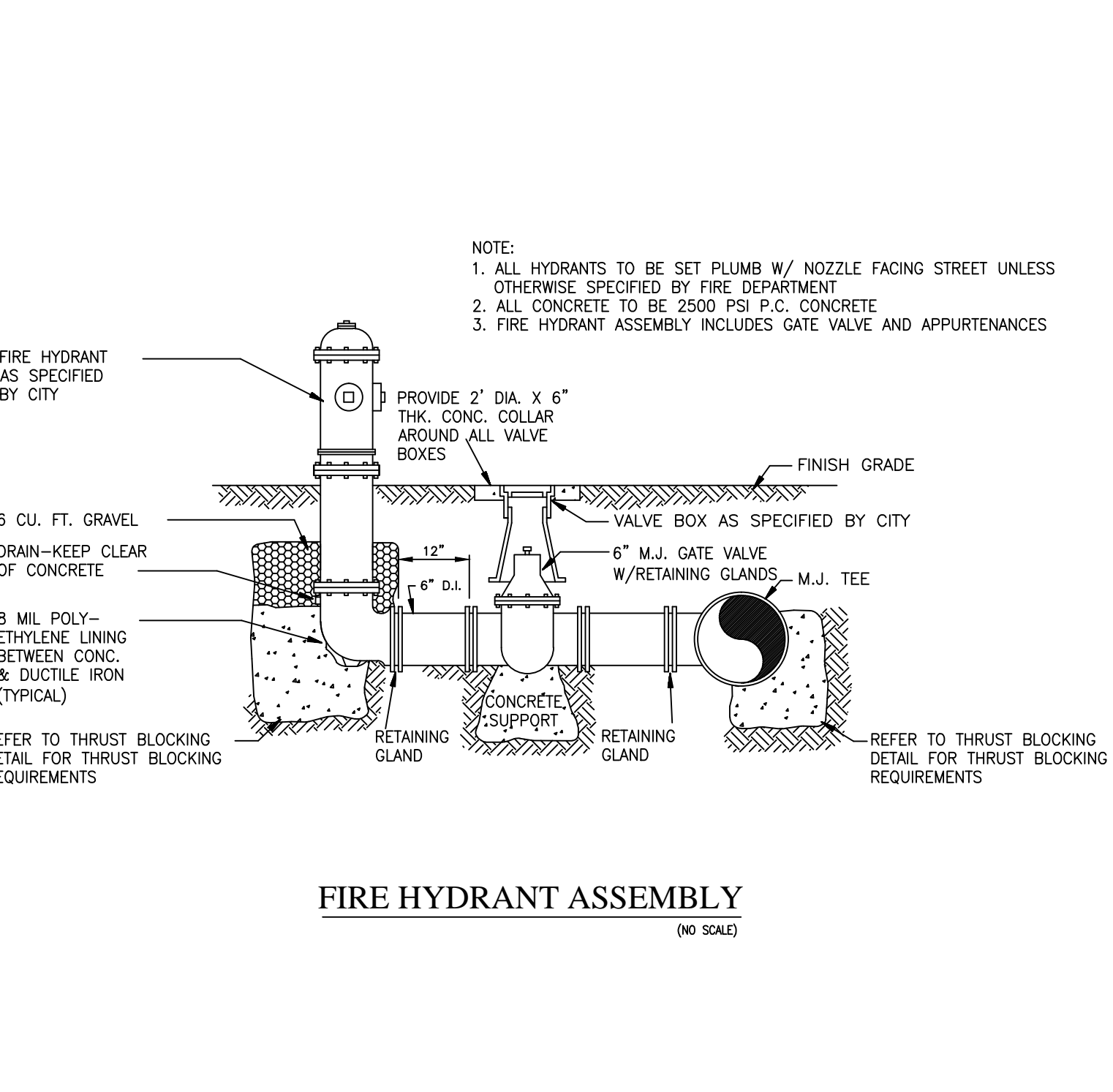
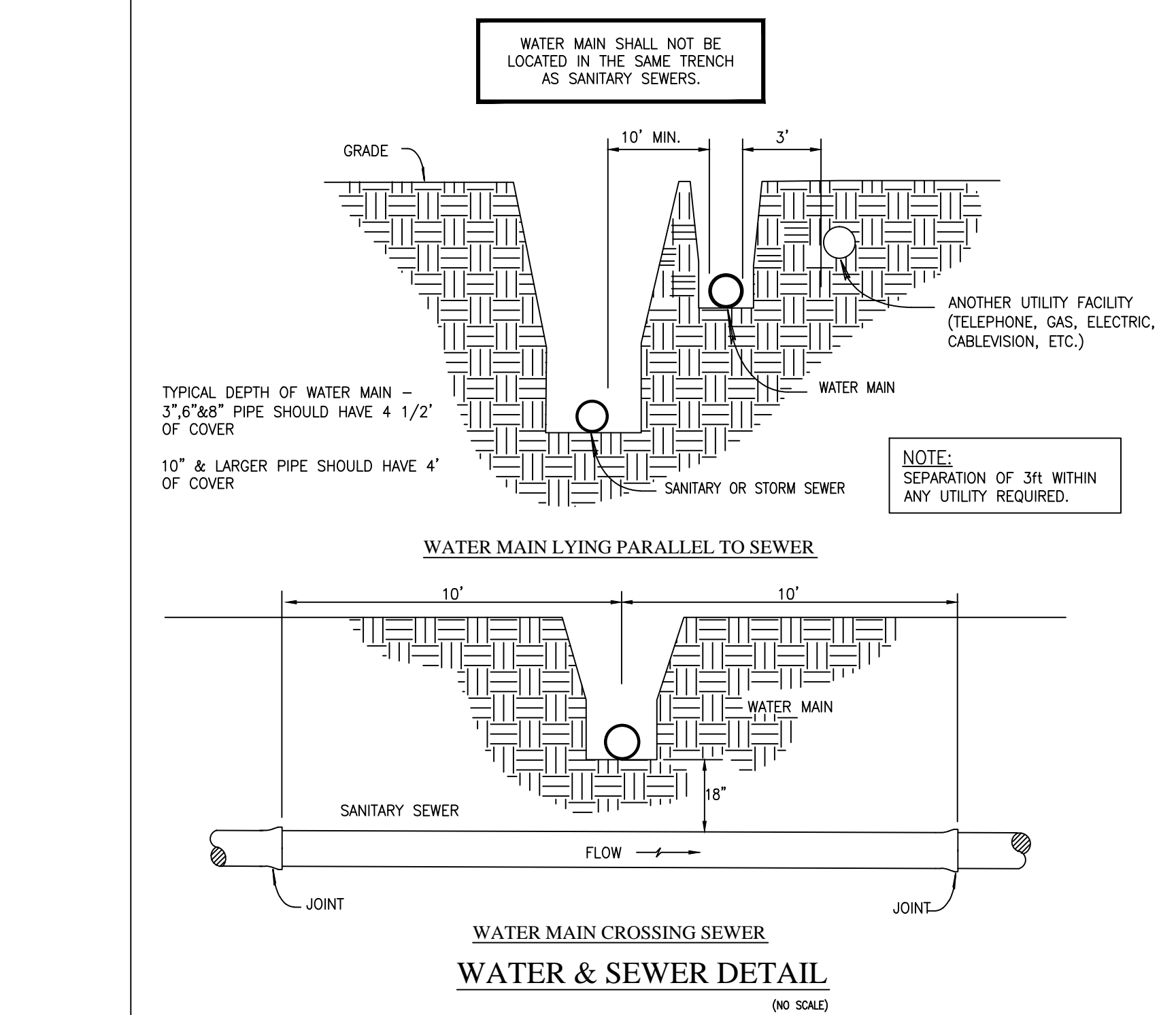
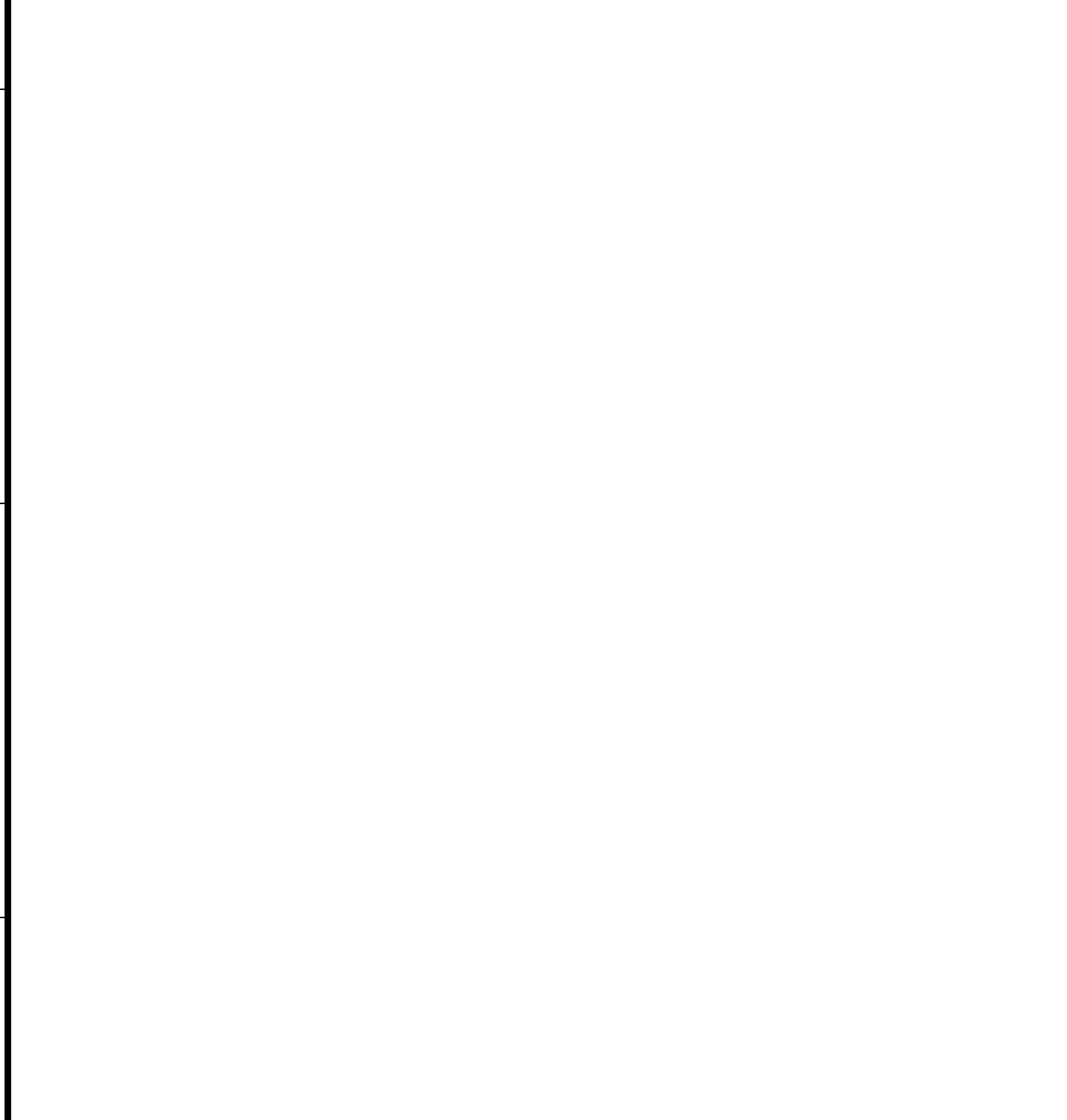
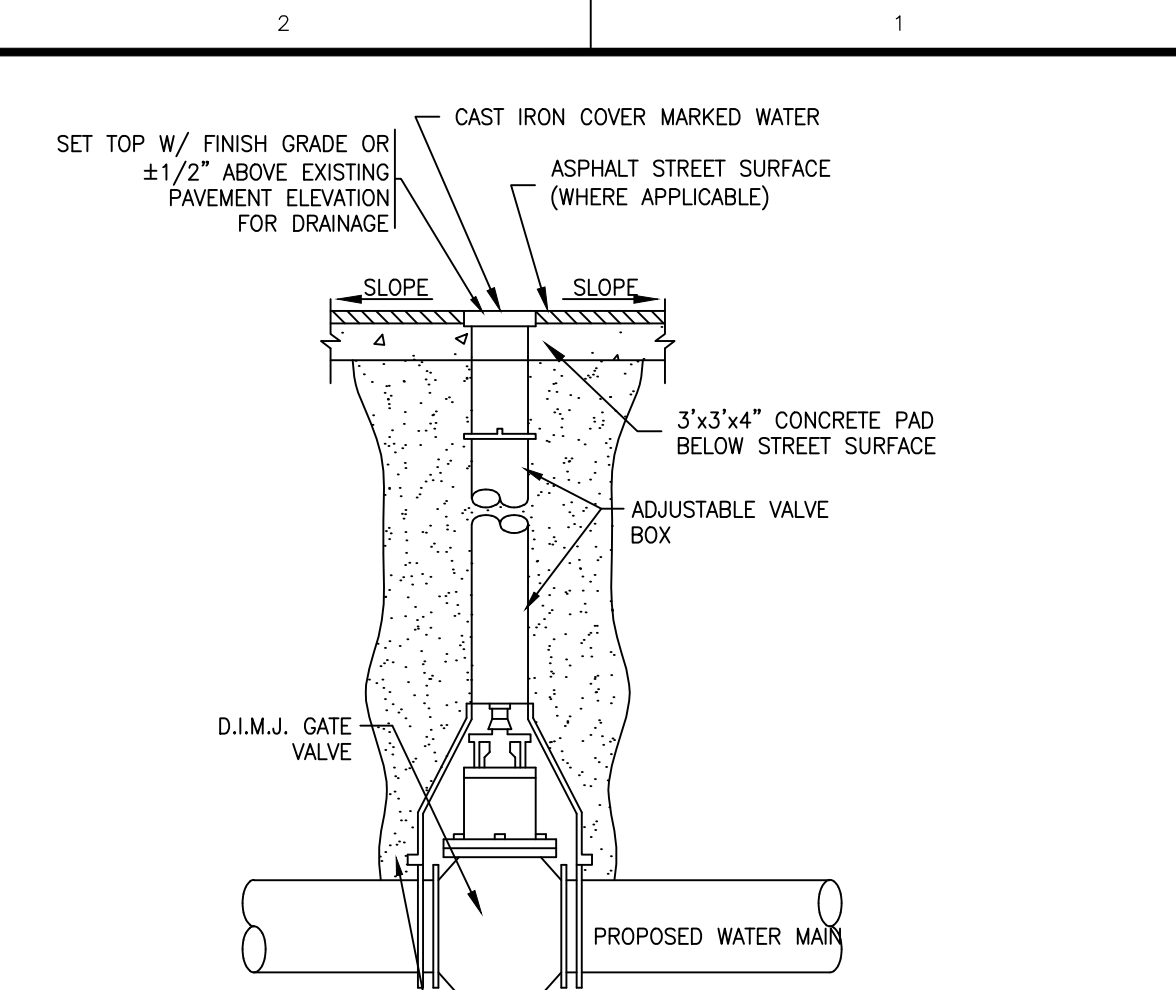
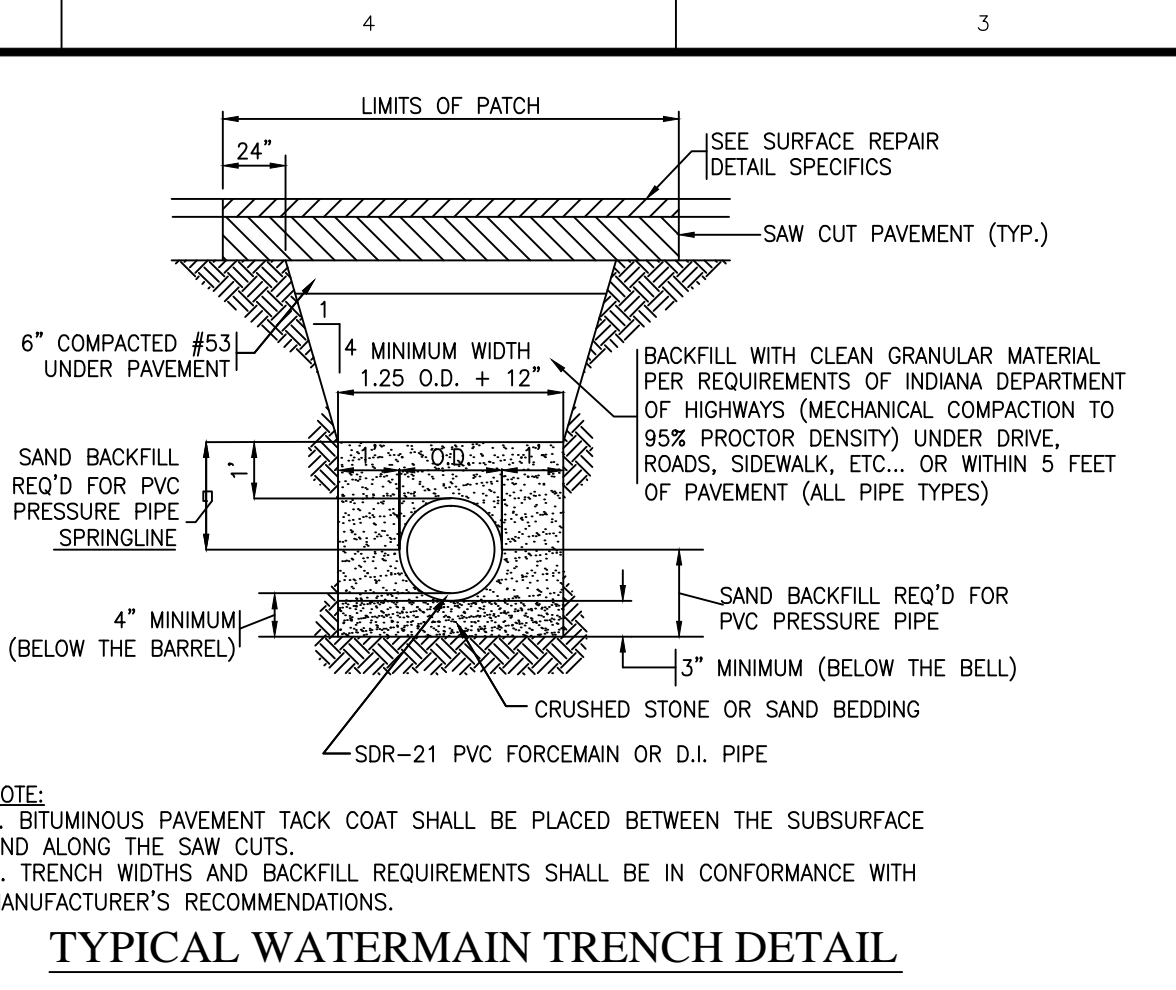
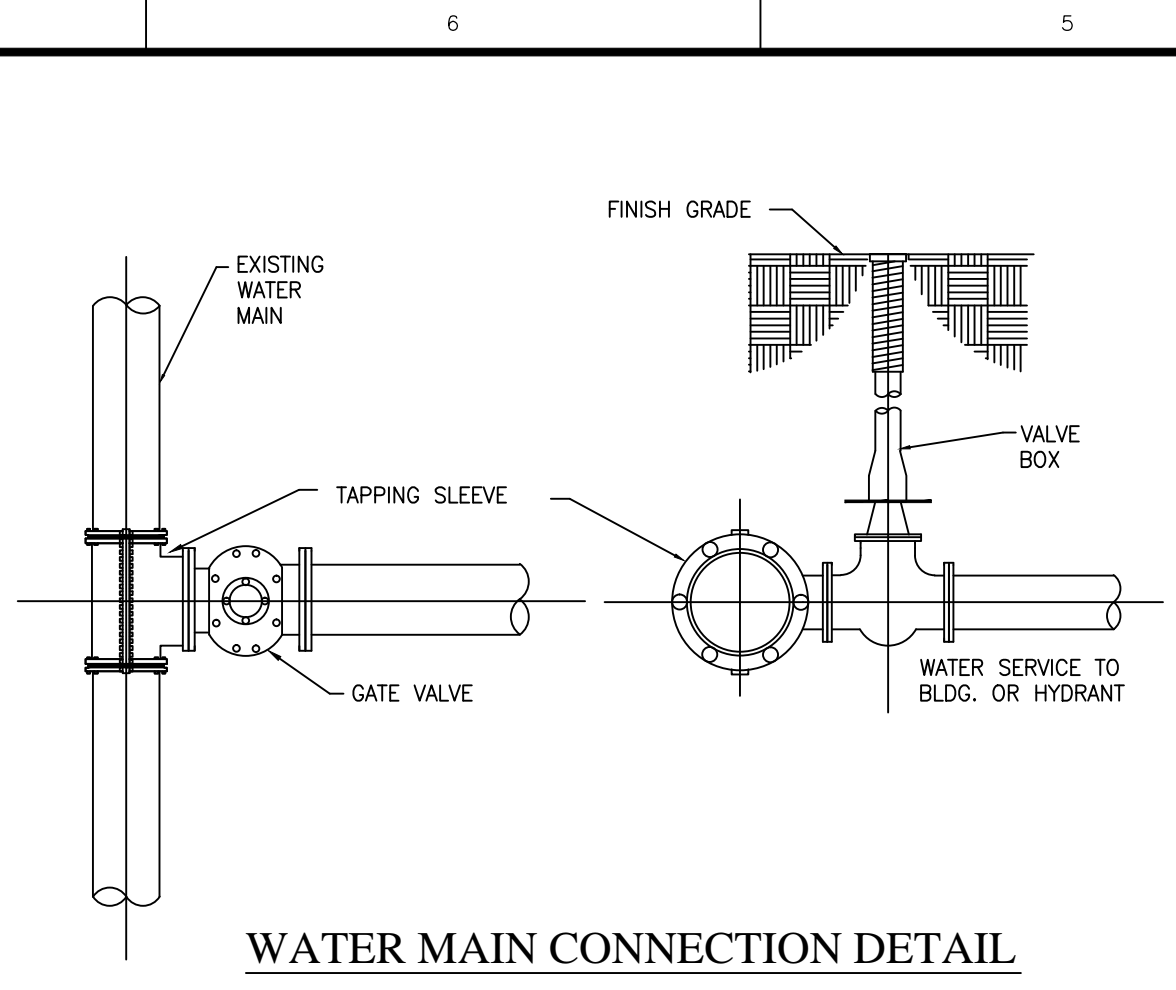
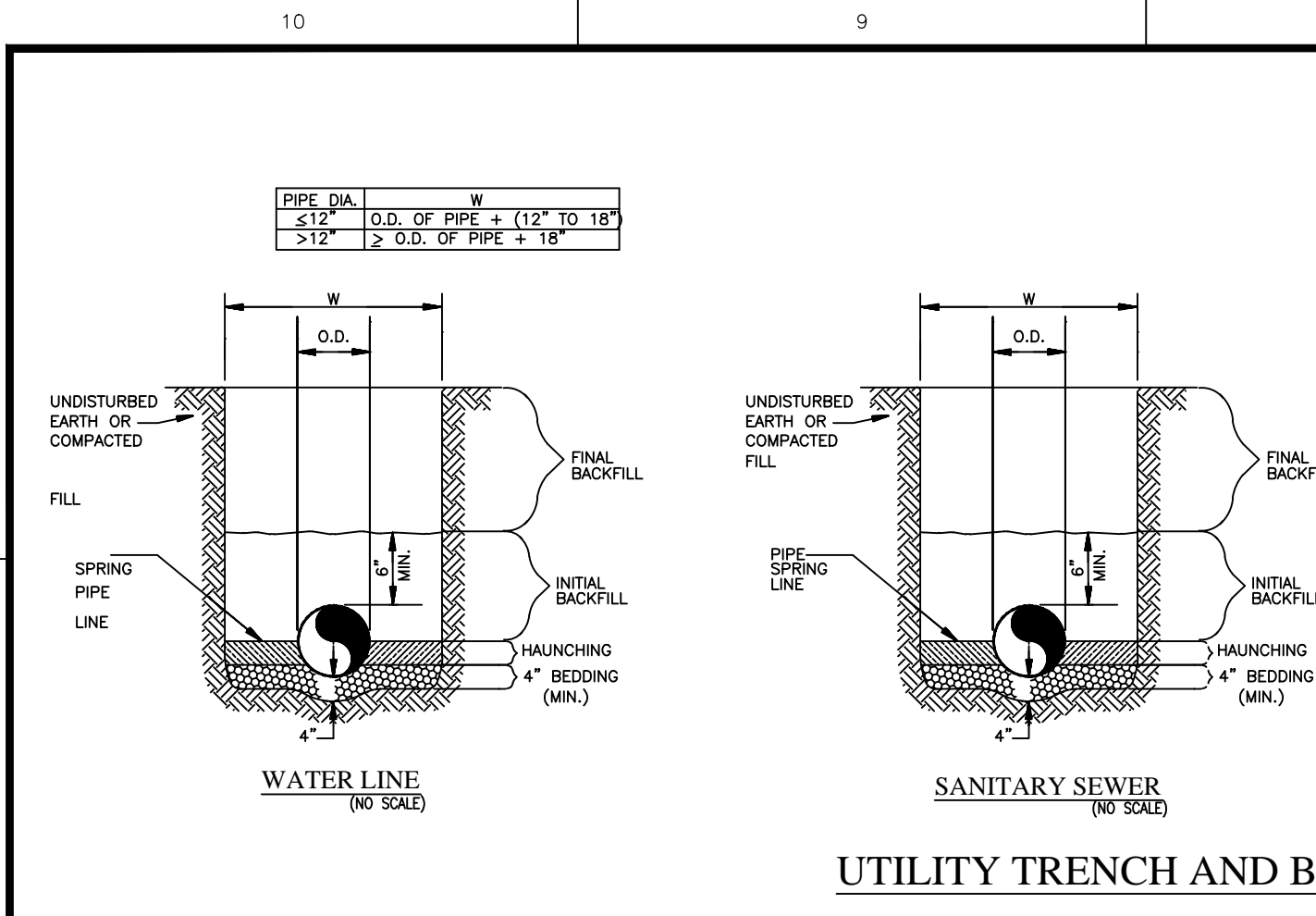
STEVEN SCOTT RUCKER
REGISTERED PROFESSIONAL ENGINEER
PE # 1390279
STATE OF INDIANA
NOT A PROFESSIONAL ENGINEER

STEVEN SCOTT RUCKER P.E. 1390279

PREPARED FOR:
IN FRANKLIN MORTON, LLC
xxx NORTH MORTON STREET, FRANKLIN, IN 46131

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

SHEET NO.
C800
PROJECT NO.
W15.0351



10505 N. College Avenue
Indianapolis, Indiana 46280
weihe.net

317 | 846 - 6611
800 | 452 - 6408
317 | 843 - 0546 /ax

ALLAN H. WEIHE, P.E., L.S. - FOUNDER

WEIHE ENGINEERS

Land Surveying | Civil Engineering
Landscape Architecture

PROJECT NO.: W15.0351
DWG NAME: W150351-2800-001.dwg
DESIGNED BY: BUSRAM
DRAWN BY: RAM
CHECKED BY: BUS
DATE: 03.17.2016

REVISIONS AND ISSUES
CITY SUBMITTAL

STEVEN SCOTT RUCKER, P.E. 11300279
REGISTERED PROFESSIONAL ENGINEER
STATE OF INDIANA
NOTARY PUBLIC

PREPARED FOR:
IN FRANKLIN MORTON, LLC
xxx NORTH MORTON STREET, FRANKLIN, IN 46131
UTILITY DETAILS
Part of the NE of Section 15, Township 12 North, Range 4 East, Franklin Township, Johnson County, Indiana

SHEET NO.
C801
PROJECT NO.
W15.0351

LOCATION: \\fs1\0351\Engineering\Design\Connect\W150351-C800.dwg
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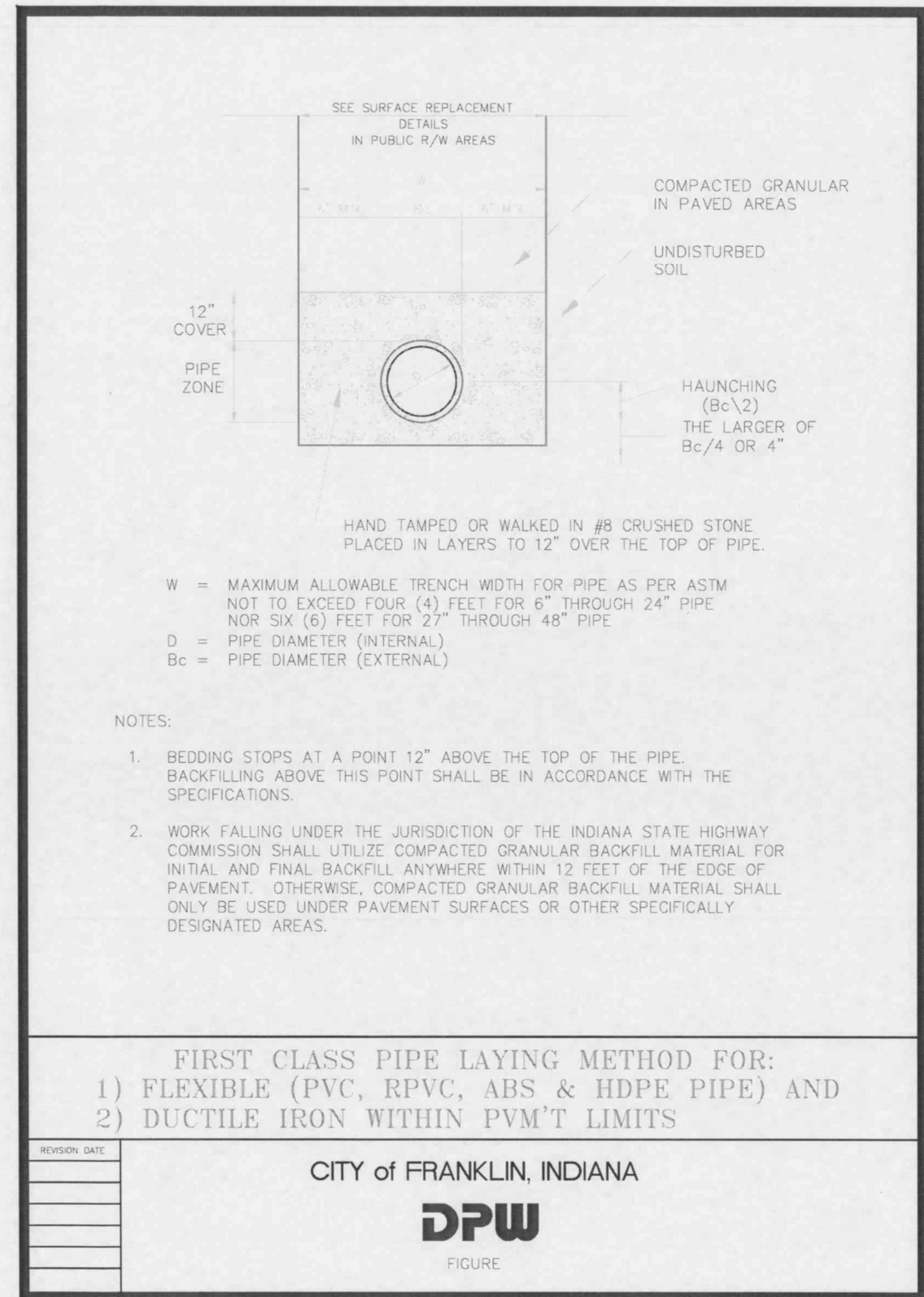
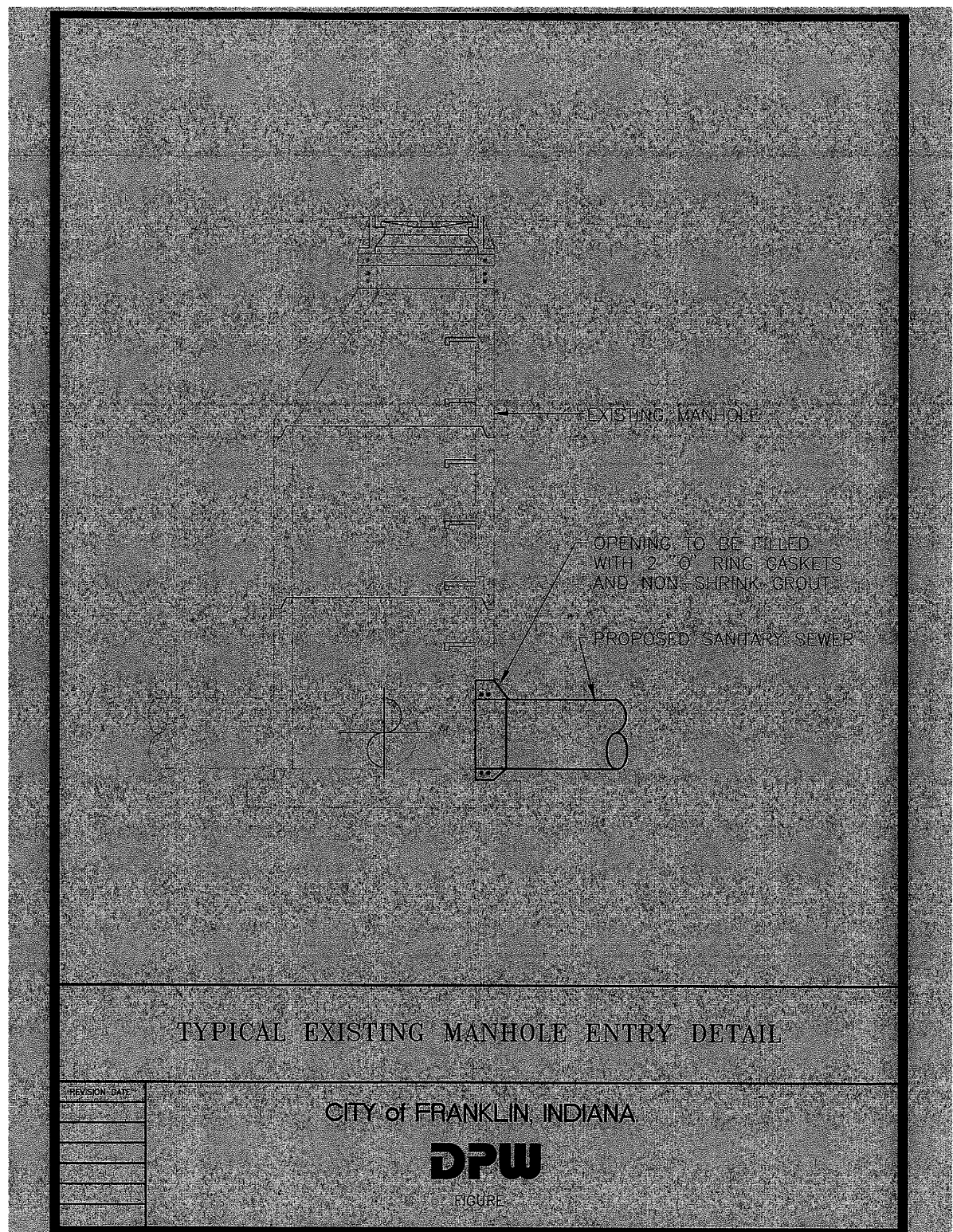
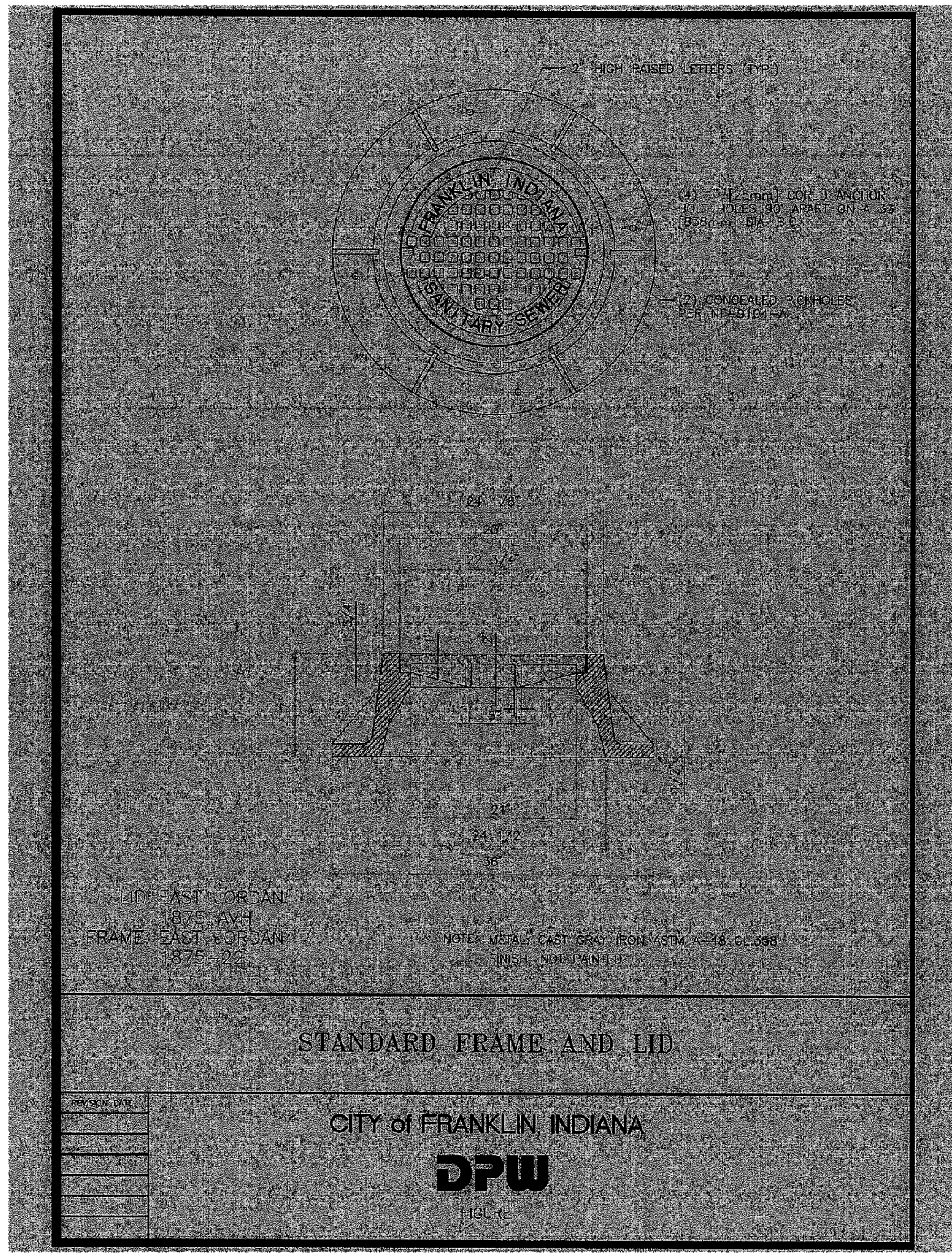
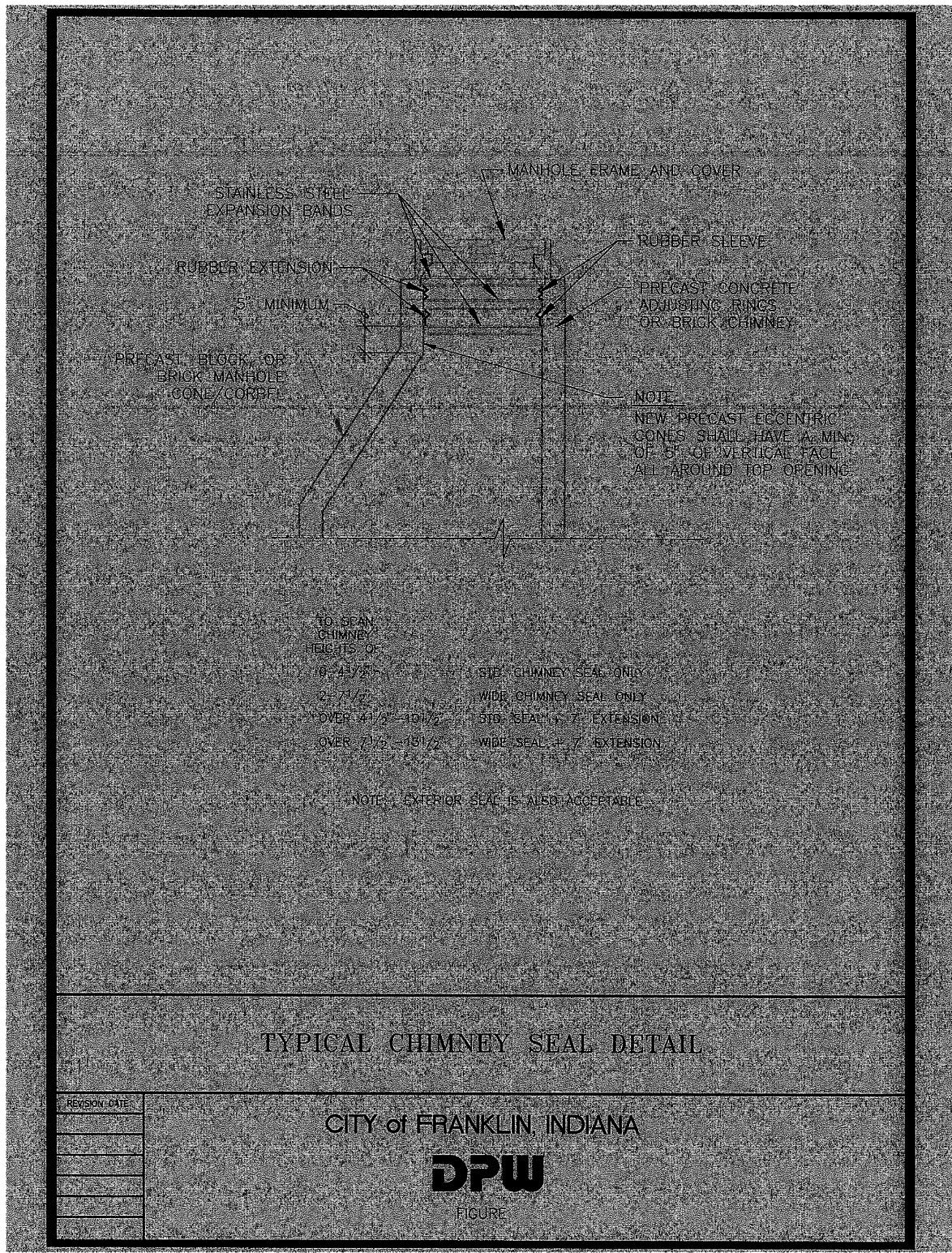
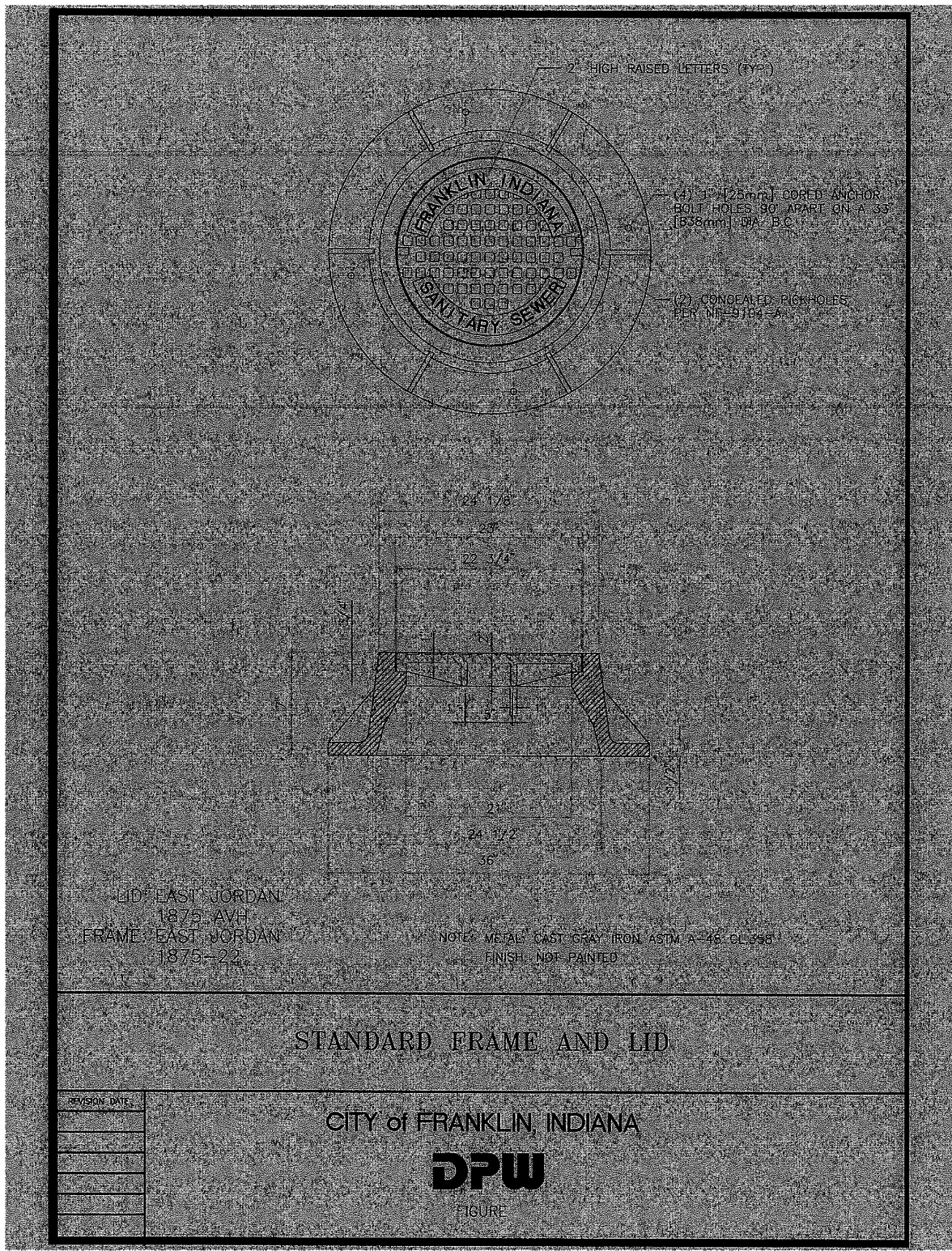
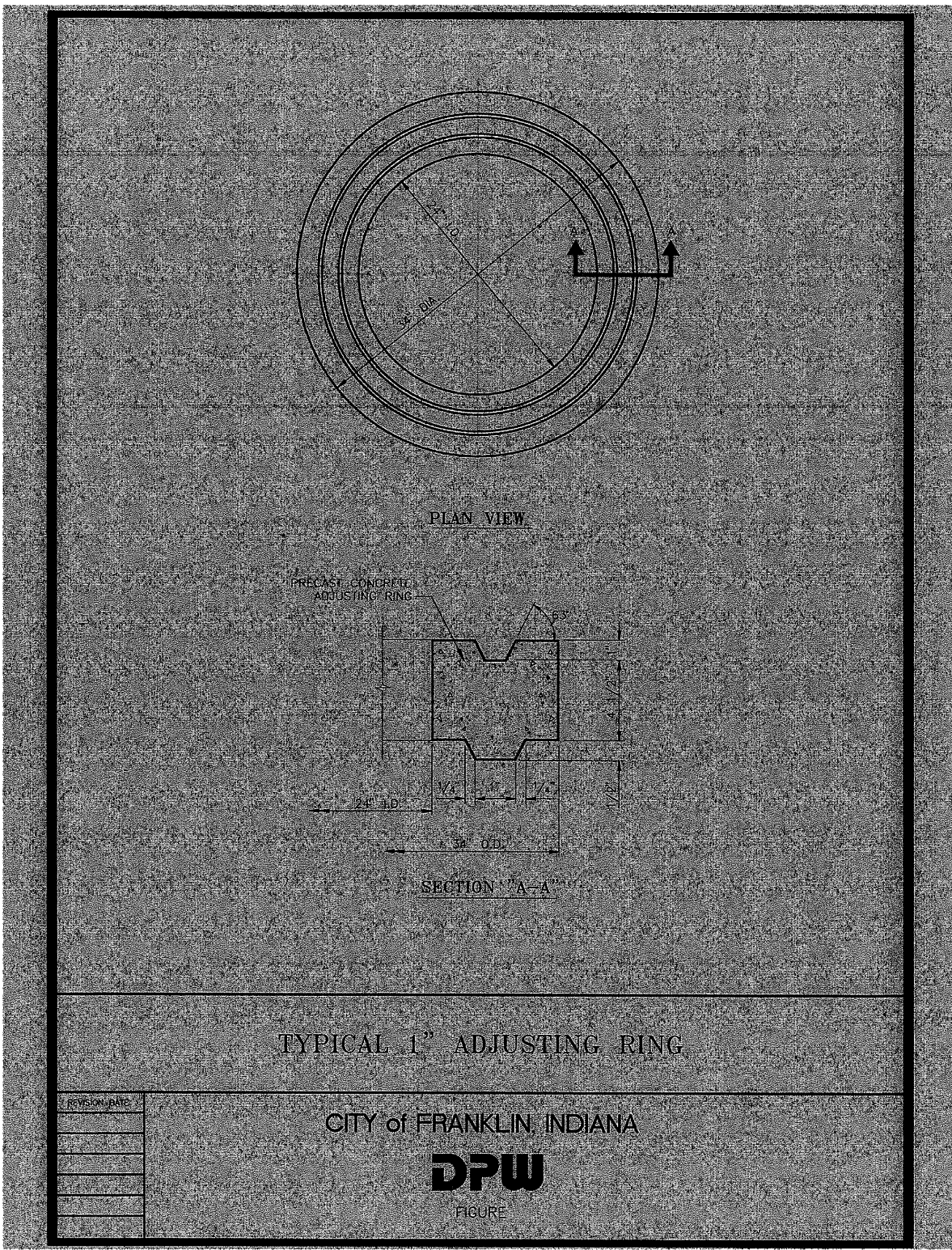
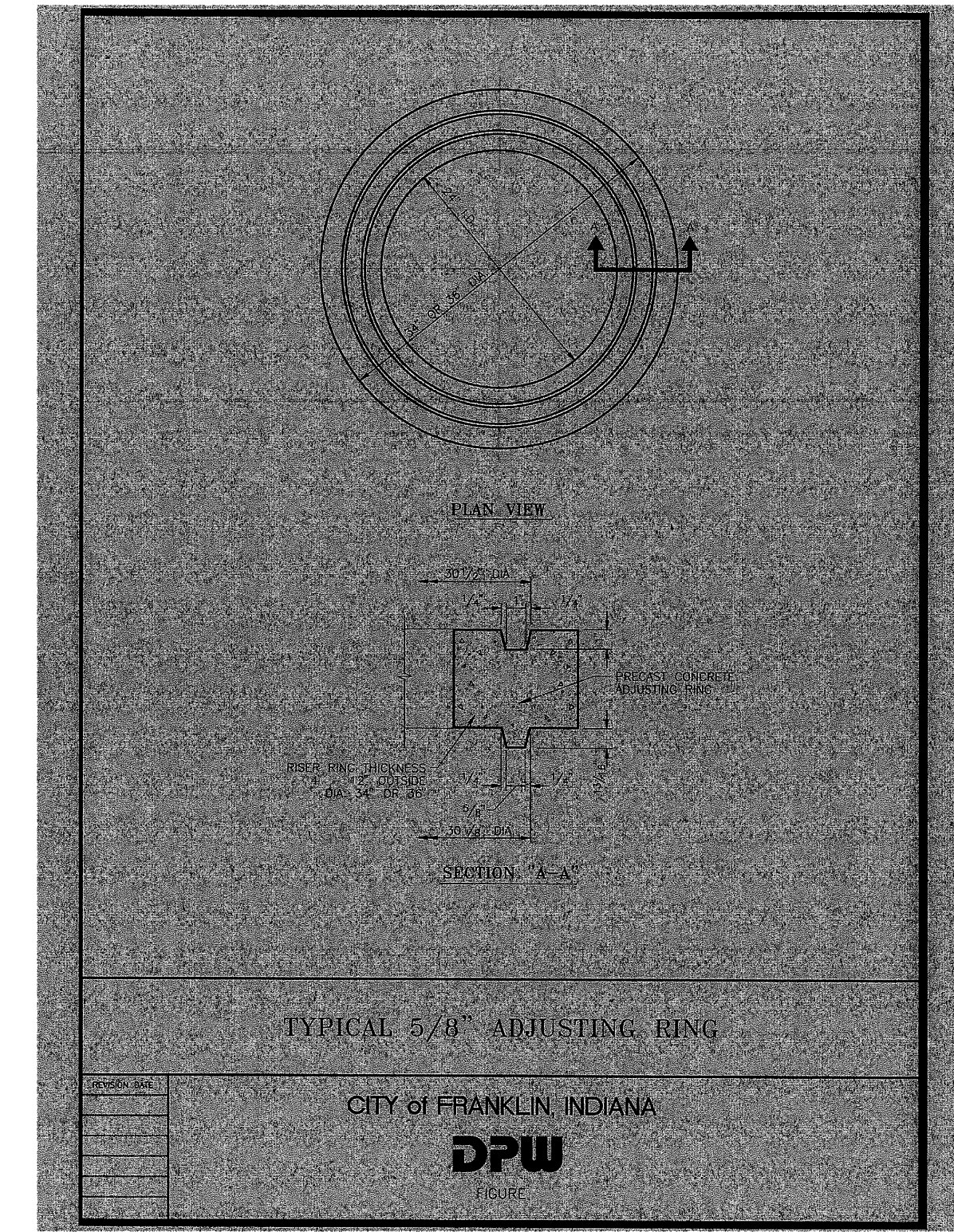


Illustration 7-1

CITY OF FRANKLIN - STANDARD SPECIFICATIONS

1-70

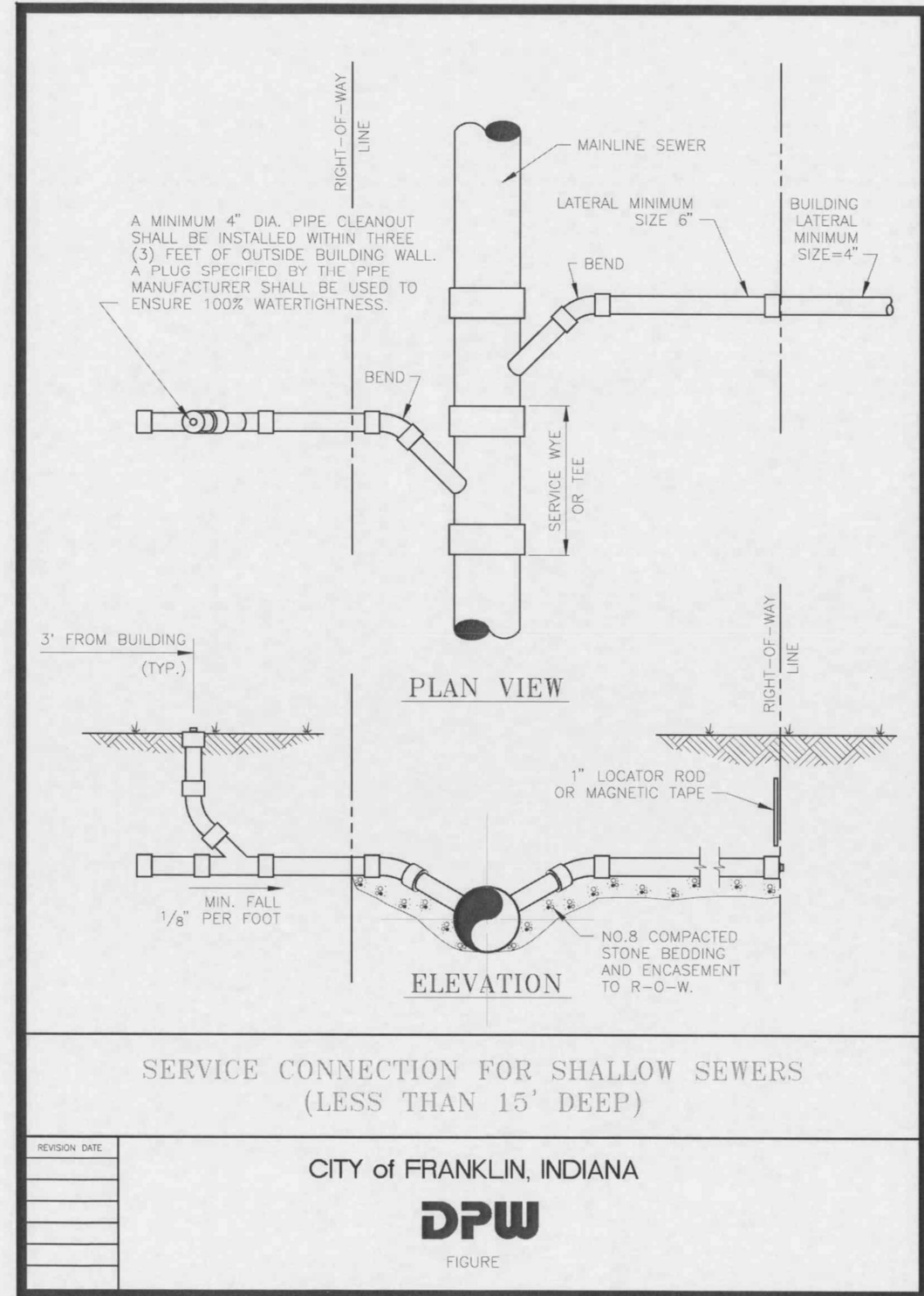


Illustration 7-4

CITY OF FRANKLIN - STANDARD SPECIFICATIONS

1-73

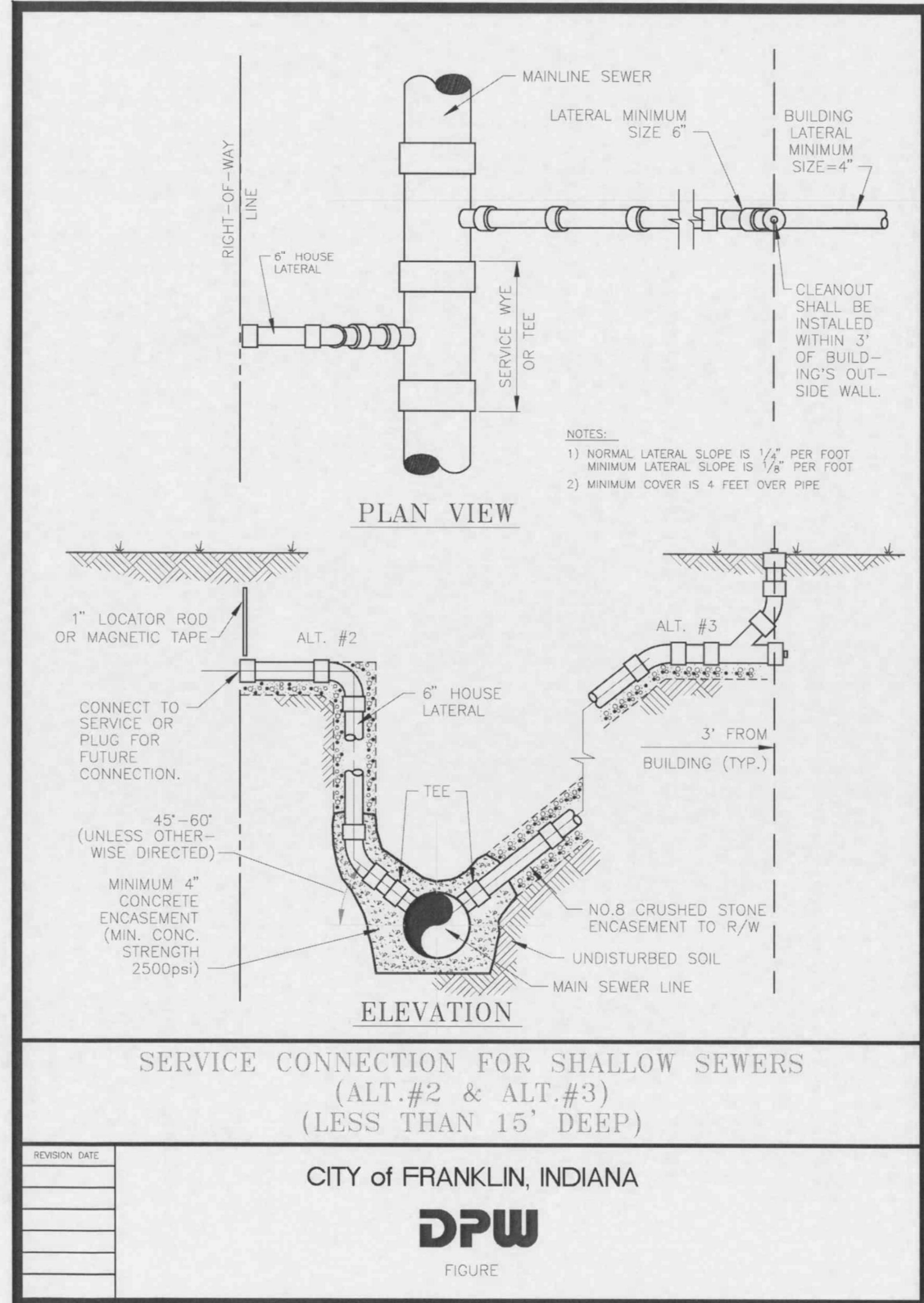


Illustration 7-6

CITY OF FRANKLIN - STANDARD SPECIFICATIONS

1-75

PREPARED FOR:
**IN FRANKLIN
MORTON, LLC**

xxx NORTH MORTON STREET, FRANKLIN, IN 46131

UTILITY DETAILS

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

SHEET NO.

C802

PROJECT NO.

W15.0351

REVISIONS AND ISSUES

CITY SUBMITTAL

DATE: 03.17.2016

BY: BJS

PROJECT NO.: W15.0351

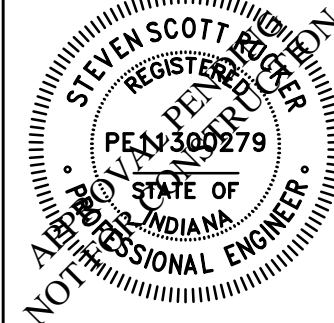
DWG NAME: W150351-C800.dwg

DESIGN: BJS/AM

DRAWN BY: BJS

CHECKED BY: BJS

DATE: 03.17.2016



STEVEN SCOTT RUCKER P.E. 11300279

10505 N. College Avenue
Indianapolis, Indiana 46280
weihe.net

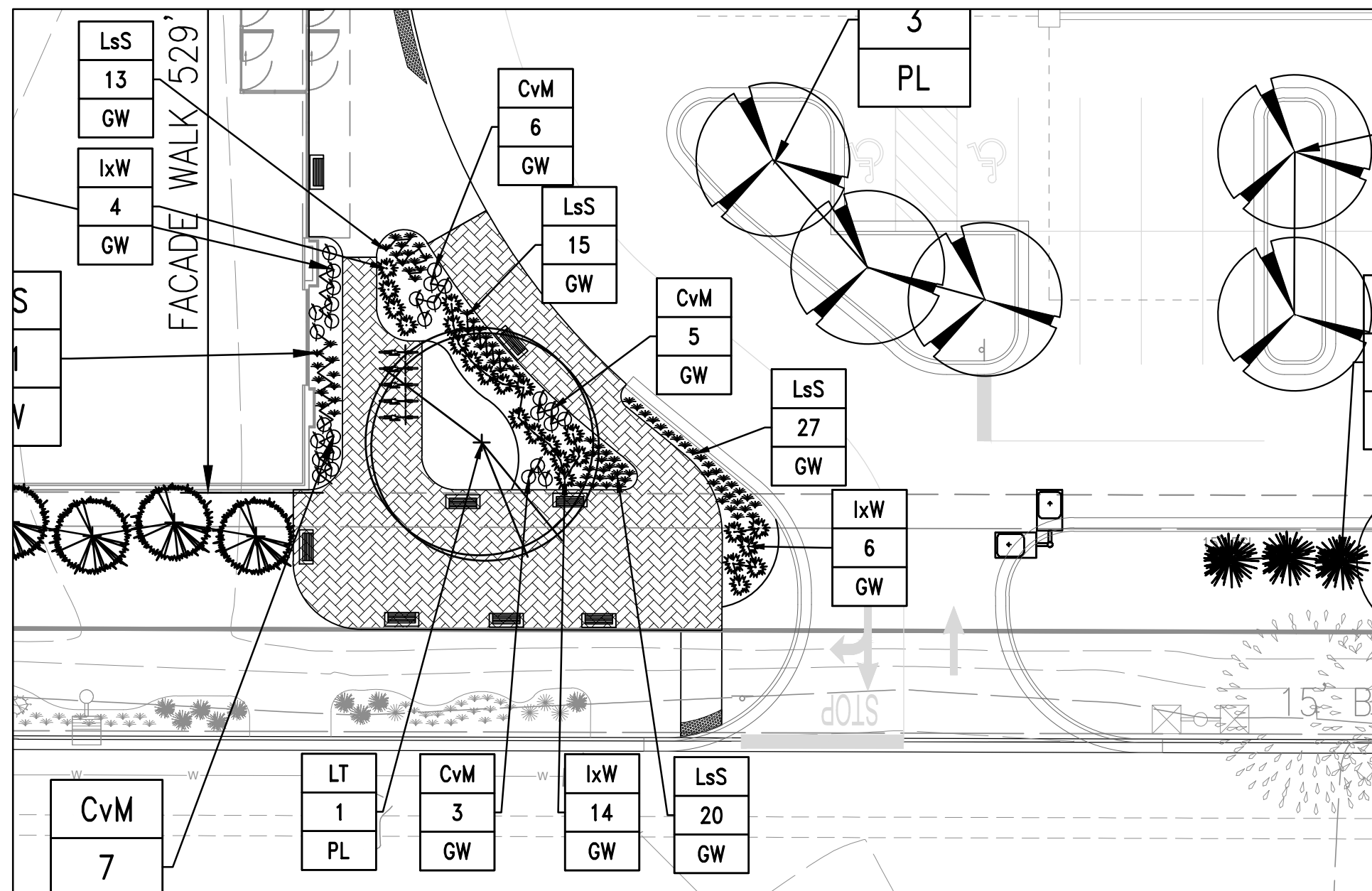
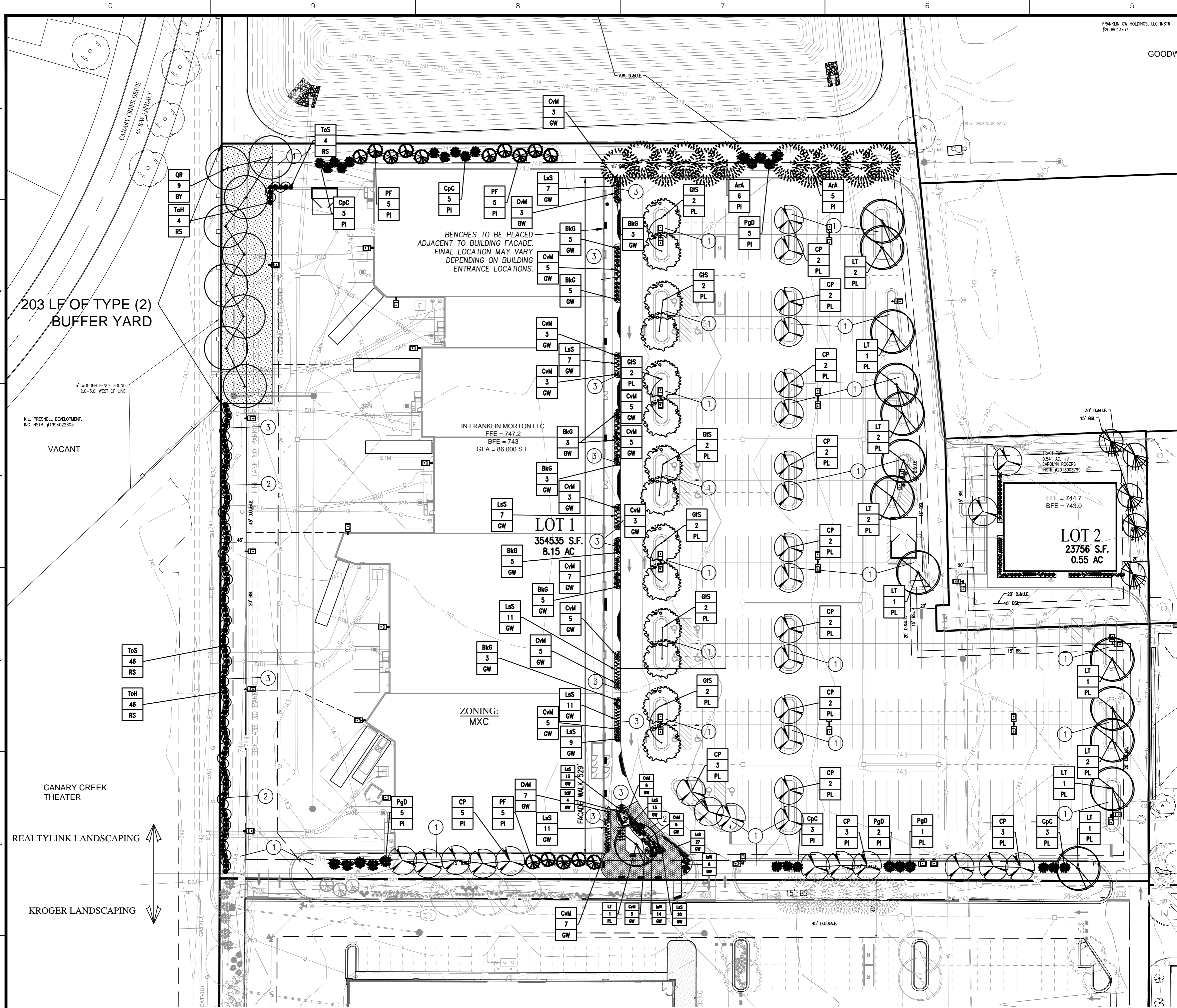
317 | 846 - 6611
800 | 452 - 6408
317 | 843 - 0546 fax

ALLAN H. WEIHE, P.E., L.S. - FOUNDER

**WEIHE
ENGINEERS**

Land Surveying | Civil Engineering
Landscape Architecture

LOCATION: H:\2016\W150351\Engineering\Design\Concept\150351-101.dwg
LAYOUT: L100
DATE: February 17, 2016
PLOTED BY: schenb



SIDEWALK PLANTING DETAIL

SCALE: 1" = 20'

GENERAL NOTES

- IN CASE OF DISCREPANCIES BETWEEN THE PLAN AND THE PLANT LIST, THE PLAN SHALL DICTATE. IF IN QUESTION, CONTACT THE LANDSCAPE DESIGNER.
- ALL SHRUBS PLANTING AREAS TO BE COVERED WITH 4" THICK LAYER OF SHREDDED HARDWOOD BARK MULCH. ALL GROUND COVER BEDS SHALL BE COVERED WITH 1" SHREDDED HARDWOOD BARK MULCH. BARK MULCH SHALL BE APPROVED BY LANDSCAPE DESIGNER AND SHALL BE UNIFORM IN TEXTURE AND COLOR AND SHALL BE OBTAINED FROM SAWMILL OR LUMBERING OPERATIONS. NO UTILITY MULCH OR PROCESSED TREE TRIMMINGS WILL BE ALLOWED.
- AN APPROVED PRE-EMERGENT HERBICIDE SHALL BE APPLIED IN ALL PLANTING AND GROUND COVER BEDS AT RATES SPECIFIED BY MANUFACTURER FOR EACH VARIETY OF PLANT.
- FINAL PLACEMENT OF PLANT MATERIALS, ETC. SHALL BE APPROVED BY LANDSCAPE DESIGNER BEFORE PLANTING OPERATIONS ARE TO PROCEED. ALL TREE LOCATIONS SHALL BE MARKED WITH A WOODED STAKE INDICATING VARIETY AND SIZE OF TREE. ALL GROUND COVER AND MULCH BED LINES SHALL BE MARKED BY A HIGHLY VISIBLE PAINT LINE WITH OCCASIONAL WOOD STAKES FOR REFERENCE. ALL STAKES SHALL BE REMOVED FOLLOWING PLANTINGS OPERATIONS. LANDSCAPE DESIGNER RESERVES THE RIGHT TO ADJUST PLANT LOCATIONS ON SITE.
- NO SUBSTITUTIONS OF PLANT MATERIAL WILL BE ALLOWED. IF PLANTS ARE SHOWN TO BE UNAVAILABLE, THE CONTRACTOR SHALL NOTIFY LANDSCAPE DESIGNER PRIOR TO BID DATE IN WRITING. ALL PLANTS SHALL BE INSPECTED AND TAGGED WITH PROJECT IDENTIFICATION AT NURSERY OR CONTRACTORS OPERATION PRIOR TO MOVING TO JOB SITE. PLANTS MAY ALSO BE INSPECTED AND APPROVED OR REJECTED ON THE JOB SITE.
- ALL PLANTS ARE TO MEET OR EXCEED AMERICAN STANDARDS FOR NURSERY STOCK, LATEST EDITION, AS SET FORTH BY AMERICAN ASSOCIATION OF NURSERYMEN.
- PLANTS AND ALL OTHER MATERIALS TO BE STORED ON SITE WILL BE PLACED WHERE THEY WILL NOT CONFLICT WITH CONSTRUCTION OPERATIONS AND AS DIRECTED BY OWNER.
- ALL NEW LANDSCAPE PLANTINGS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FOLLOWING FINAL INSPECTION BY LANDSCAPE DESIGNER. AT THE END OF THIS PERIOD, PLANT MATERIAL TERMED DEAD OR UNSATISFACTORY BY LANDSCAPE DESIGNER SHALL BE REPLACED AT NO ADDITIONAL CHARGE BY THE LANDSCAPE CONTRACTOR.
- THE LANDSCAPE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND FEES THAT MAY BE REQUIRED FOR HIS PORTION OF WORK.
- PEAT MOSS TO BE USED ON PROJECT SHALL BE A DOMESTIC OR IMPORTED MATERIAL, CHOCOLATE BROWN IN COLOR AND COMPOSED OF PARTIALLY DECOMPOSED VEGETABLE MATERIAL. PEAT MOSS TO ALSO BE MILDLY ACIDIC IN CHARACTER AND SHALL MEET APPROVAL OF LANDSCAPE DESIGNER.
- LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE DESIGNER IN WRITING PRIOR TO BID DATE OF ANY PLANTS THAT HE FEELS MAY NOT SURVIVE IN LOCATIONS NOTED.
- ALL LANDSCAPING PLANTINGS TO BE MAINTAINED FOR 1 YEAR FOLLOWING TURNOVER. MAINTENANCE TO INCLUDE WATERING, WEEDING, CULTIVATION, MULCHING, MOVING AND ALL OTHER NECESSARY OPERATIONS REQUIRED FOR PROPER ESTABLISHMENT OF PLANTINGS. NOTE: AT END OF MAINTENANCE PERIOD, CONTRACTOR TO REMOVE GUYING AND STAKING FROM TREES.
- CONTRACTOR TO SUBMIT UNIT PRICES ON EVERY TYPE OF WORK AS REQUESTED BY LANDSCAPE DESIGNER.
- BACKFILL FOR TREE AND SHRUB PLANTING SHALL BE 75% APPROVED TOPSOIL AND 25% APPROVED PEAT MOSS. TOP LAYER OF BACKFILL SHALL BE 100% EXISTING TOPSOIL. A 5-10-5 ANALYSIS SLOW RELEASE FERTILIZER SHALL BE INCORPORATED INTO BACKFILL AT APPROVED RATES.
- PROVIDE MINIMUM 4" PLANTING SOIL IN ALL GROUND COVER AND FLOWER AREAS WITH MIXTURE COMPRISING OF ONE PART COMMERCIAL GRADE 'POTTING SOIL', 5 PARTS TOPSOIL AND 4 PARTS PEAT MOSS. A FULL 4" LAYER OF APPROVED SHREDDED FIBROUS PEAT MOSS MAY BE USED IN LIEU OF PLANTING MIX.
- PLANTS SHALL BEAR A TAG SHOWING GENUS, SPECIES AND VARIETY.
- PLANTS SHALL BE CERTIFIED BY THE STATE OF INDIANA DEPARTMENT OF NATURAL RESOURCES AND FREE FROM DISEASE OR HAZARDOUS INSECTS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL EXISTING UTILITIES PERTAINING TO THEIR PHASE OF WORK. UTILITIES ARE SHOWN TO BE APPROXIMATE. CALL UTILITY LOCATE PRIOR TO ANY PLACEMENT OF PLANT MATERIAL OR OTHER LANDSCAPE MATERIAL.

LANDSCAPE REQUIREMENTS SUMMERY PER ORDINANCE

REQUIREMENT:	REQUIRED:	PROVIDED:
SECTION 3.3: STANDARDS (MXC) - MAXIMUM LOT COVERAGE (ALL HARD SURFACES), LOT 2 = 354741 S.F. (8.14 AC.) X 75% = (266056 S.F.)	75% MAX. (266056 S.F.)	86,000 S.F. BLDG. + 222,878 S.F. PMNT./ 354,741 LOT S.F. X 100 = 87.1% VARIANCE REQUIRED
SECTION 5.4: GATEWAY (GW-OL) C.2.1. SIDEWALKS & PEDESTRIAN WALKWAYS SITE CONNECTING WALKWAYS SHALL BE BORDERED ON EACH SIDE BY A PLANTING AREA THAT IS A MINIMUM OF 2' IN WIDTH. THE PLANTING AREAS ON EACH SIDE OF THE WALKS SHALL EACH INCLUDE FLOWERS, SHRUBS, AND TREES A MINIMUM OF 50% OF THEIR LENGTH. - WALKWAYS ALONG THE FACADES OF THE BUILDING SHALL BE CONCRETE, 5' WIDE AND SEPARATED FROM THE BUILDING BY A LANDSCAPE AREA THAT IS A MINIMUM OF 5' IN WIDTH. THE LANDSCAPE AREA SHALL INCLUDE BENCHES AND SEATING AREAS, AND BE PLANTED WITH FLOWERS, TREES, AND SHRUBS FOR A MINIMUM OF 50% OF ITS LENGTH.	- 111 LINEAR FT. OF WALK x 50% = 68.5 L.F. BY 2' WIDE ON EACH SIDE OF THE WALK. - 529 LINEAR FT. x 50% = 264.5 L.F. BY 5' WIDE = 1322.5 SF OF PLANTING AREA REQUIRED.	- 111 LINEAR FT. OF WALK x 50% = 68.5 L.F. BY 2' WIDE ON EACH SIDE OF THE WALK - 1374 S.F. 5' PLANTING AREA LOCATED ALONG FACADE WALK AND 110 S.F. IN GREEN SPACE AT SOUTHEAST CORNER OF BUILDING. 5 BENCHES ALONG BUILDING FACADE.
SECTION 7.16: LANDSCAPING STANDARDS D. PROPERTY INTERIOR REQUIREMENTS - PROVIDE 1 BROADLEAF, DECIDUOUS TREE AND/OR EVERGREEN CONIFER FOR EVERY 1,500 SQ. FT. OF REQUIRED YARD AREA.	- 88,685 SF GREEN SPACE - 59 TREES	48,583 SF GREEN SPACE VARIANCE REQUIRED - 59 TREES
SECTION 7.16: LANDSCAPING STANDARDS F. PARKING LOT INTERIOR REQUIREMENTS: LANDSCAPE ISLANDS WITH A SURFACE AREA EQUAL TO 5% OF THE AREA OF THE PAVED SURFACE SHALL BE PROVIDED IN ALL PARKING LOTS. - ALL LANDSCAPE ISLANDS MUST BE A MINIMUM OF 300 SQ. FT. IN AREA. - A MINIMUM OF 1 BROADLEAF/DECIDUOUS TREE SHALL BE PROVIDED FOR EVERY 300 SQ.FT. OF LANDSCAPED AREA REQUIRED.	- 224,720 SF PAVED AREA x 5% = 11,236 SF PLANTING ISLANDS - 38 TREES	- 12,429 SF OF PLANTING ISLANDS VARIANCE REQUIRED - 54 TREES
SECTION 7.17: BUFFERING & SCREENING STANDARDS BUFFER YARD TYPE 2: - BUFFER YARD TYPE 2 SHALL INCLUDE A MINIMUM SETBACK OF 20 FEET IN ADDITION TO THE YARD SETBACK OTHERWISE REQUIRED BY THE ORDINANCE. IN ADDITION, ONE BROAD-LEAF DECIDUOUS CANOPY TREE OR 2 EVERGREEN CONIFERS SHALL BE PLANTED IN THE BUFFER YARD FOR EVERY 25 FEET OF BOUNDARY BETWEEN THE PROPERTIES. NO BUFFER YARD REQUIRED PLANTING SHALL BE PLACED WITHIN ANY EASEMENT OR RIGHT-OF-WAY.	- 203 LF OF 40' WIDE TYPE 2 BUFFER YARD ALONG PRESNELL PROPERTY - 9 DECIDUOUS CANOPY TREES OR 18 CONIFEROUS EVERGREEN TREES	- 203 LF OF 40' WIDE BUFFER YARD (WITHIN 45' D.U. & A.E. EASEMENT AND 20' DRIVE ENCROACHMENT) - 9 DECIDUOUS CANOPY TREES - 9 DECIDUOUS CANOPY TREES
SECTION 7.19: LARGE SCALE RETAIL STANDARDS C. PARKING LOT DESIGN, VEHICLE ACCESS AND PEDESTRIAN SAFETY: 1. PEDESTRIAN FACILITIES: A CONTINUOUS, DELINEATED PEDESTRIAN PATHWAY A MINIMUM OF 6' WIDE FROM PERIMETER PUBLIC WALKWAY TO CUSTOMER ENTRANCE. - SIDEWALK, NO LESS THAN 8' WIDE ALONG FULL LENGTH OF BUILDING FACADE THAT FEATURES CUSTOMER ENTRANCE. ALL INTERNAL WALKWAYS MUST FEATURE ANY COMBINATION OF LANDSCAPING, BENCHES, DECORATIVE LIGHTING, KIOSKS AND DECORATIVE BOLLARDS FOR 50% OF THEIR LENGTH. 2. PUBLIC SPACE: EACH ESTABLISHMENT MUST CONTRIBUTE TO THE ENHANCEMENT OF THE COMMUNITY AND ITS PUBLIC SPACES BY PROVIDING AT LEAST 2 OF THE FOLLOWING AMENITIES: - A LANDSCAPE PATIO/OUTDOOR SEATING AREA THAT IS A MINIMUM OF 2000 SQUARE FEET IN AREA. - A WATER FEATURE (EXCLUDING ANY REQUIRED DETENTION/RETENTION PONDS) - A CLOCK TOWER (EITHER AS A FREE STANDING STRUCTURE OR IN CONJUNCTION WITH THE PRIMARY ENTRANCE FEATURES) - BUS/PUBLIC TRANSPORTATION SHELTER AND TURN OFF LANES. - PUBLIC ART D. OUTDOOR STORAGE, SERVICE AND LOADING AREAS: AREAS FOR OUTDOOR STORAGE, TRUCK PARKING, TRASH COLLECTION/COMPACTION, LOADING AND UNLOADING SHALL NOT BE VISIBLE FROM ABUTTING STREETS (PUBLIC OR PRIVATE), OR ADJACENT NON-INDUSTRIAL PROPERTIES.	- 111 LINEAR FT. OF MIN. 6' WIDE WALK x 50% = 68.5 L.F. BY 2' WIDE ON EACH SIDE OF THE WALK - 1282 S.F. 5' PLANTING AREA LOCATED ALONG FACADE WALK AND 906 S.F. IN GREEN SPACE AT SOUTHEAST CORNER OF BUILDING. 5 BENCHES ALONG BUILDING FACADE. - 8' MASONRY WALL EXTENDING THE ENTIRE LENGTH OF SERVICE AREA, WITH MIN. 4' HIGH OPAQUE PLANTING.	- 111 LINEAR FT. OF 6' MIN. WIDTH WALK x 50% = 68.5 L.F. BY 2' WIDE ON EACH SIDE OF THE WALK - 1282 S.F. 5' PLANTING AREA LOCATED ALONG FACADE WALK AND 906 S.F. IN GREEN SPACE AT SOUTHEAST CORNER OF BUILDING. 5 BENCHES ALONG BUILDING FACADE. - EVERGREEN TREES EXTENDING THE ENTIRE LENGTH OF SERVICE AREA.

PLANT SCHEDULE

PLANT	BOTANICAL NAME	COMMON NAME (AVERAGE MATURE HT.)	SIZE	QUANTITY	ROOT CONDITION ON CENTER	SPACING	INSTRUCTIONS
CANOPY DECIDUOUS TREES							
AA	ACER RUBRUM 'AUTUMN FLAME'	AUTUMN FLAME RED MAPLE (40')	2 1/2"	11	X		SEE PLAN X
GIS	GLEDETIA TRIACANTHOS 'NERMIS SKYLINE'	SKYLINE HONEYLOCUST (40')	2 1/2"	14	X		SEE PLAN X
LT	LIRIODENDRON TULIPIFERA	TULIP TREE (45')	2 1/2"	14	X		SEE PLAN X
QR	QUERCUS RUBRA	RED OAK (45')	2 1/2"	9	X		SEE PLAN X
ORNAMENTAL TREES							
CP	CRATAEGUS PHAENOPYRUM	WASHINGTON HAWTHORN (30')	2 1/2"	30		X	SEE PLAN MIN. 24"
EVERGREEN TREES							
CP	CHAMAECYPARIS PISIFERA 'CYANO VIRIDIS'	BOULEVARD FALSECYPRESS (10')	5'	16		X	SEE PLAN MIN. 24"
PF	PINUS FLEXILIS	LIMBER PINE (15')	5'	15		X	SEE PLAN MIN. 24"
PgD	PICEA GLAUCA 'DENSATA'	BLACK HILLS SPRUCE (12')	5'	13		X	SEE PLAN MIN. 24"
EVERGREEN SHRUBS							
BKG	BUXUS X KOREANA 'GREEN GEM'	GREEN GEM BOXWOOD (3.5')	18"	35	X		SEE PLAN MIN 18"
IKW	ILEX X 'WILLEMER'	EMERALD MAGIC HOLLY (3.5')	#3	24		X	SEE PLAN MIN. 18"
THJ	THUJA OCCIDENTALIS 'HOLMSTRUP'	HOLMSTRUP ARBORVITAE (12')	4'	50	X		SEE PLAN MIN 4"
TSB	THUJA OCCIDENTALIS 'SMARAGD'	AMERICAN ARBORVITAE (14')	4'	50	X		SEE PLAN MIN 4"
PERENNIALS							
CWM	COREOPSIS VERTICILLATA 'MOONBEAM'	MOONBEAM COREOPSIS	#1	76		X	2' X
LsS	LIRIOPE SPICATA 'SILVER DRAGON'	SILVER DRAGON LILY TUFT	#1	138		X	1.5' X

LANDSCAPE PLAN NOTES

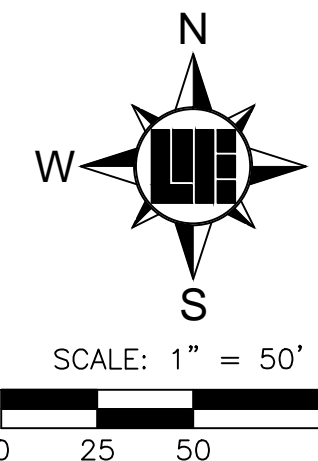
- SOD (ALTERNATE)- ALL SOD SHALL BE CERTIFIED GRADE CULTIVATED GRASS SOD OF 'ADVENTURE BLEND' TURF TYPE TALL FESCUE (BY GENERAL CONTRACTOR)
- MULCH
- REFER TO THE SIDEWALK PLANTING DETAIL ON THIS SHEET FOR ADDITIONAL LANDSCAPE QUANTITIES.

LEGEND

TYPE 2 BUFFER YARD

SYMBOL QUANTITY PLANTING AREA

PLANTING AREA LEGEND
GW = GATEWAY REQUIREMENTS
PI = PROPERTY INTERIOR REQUIREMENTS
PL = PARKING LOT REQUIREMENTS
BY = BUFFER YARD REQUIREMENTS
RS = RETAIL STANDARDS



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.

PLAN CERTIFICATE NOTE:

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

FINAL DRAWINGS FOR THE IN FRANKLIN MORTON, LLC SITE WERE PREPARED BY WEIHE ENGINEERS, INC. AND STEVEN SCOTT RUCKER. FINAL CONSTRUCTION PLANS ARE THOSE PLANS CONTAINING A FINAL REVISION DATE AFTER 03/17/2016. WEIHE ENGINEERS, INC. AND STEVEN SCOTT RUCKER ACCEPT RESPONSIBILITY ONLY FOR THE IN FRANKLIN MORTON, LLC SITE IMPROVEMENTS RELATED TO THE ENGINEERING WORK SHOWN ON THESE PLANS.

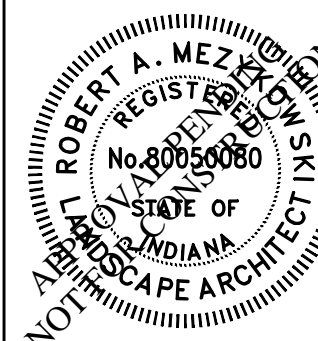
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317 | 846 - 6611
800 | 452 - 6408
317 | 843 - 0546 fax

WEIHE
ENGINEERS

Land Surveying | Civil Engineering
Landscape Architecture

PROJECT NO.: W15.0351
DWG NAME: W150351-101.dwg
DESIGNED BY: J. SCHENB
DRAWN BY: J. SCHENB
CHECKED BY: J. SCHENB
DATE: 03/17/2016

REVISIONS AND NOTES
CITY SUBMITTAL

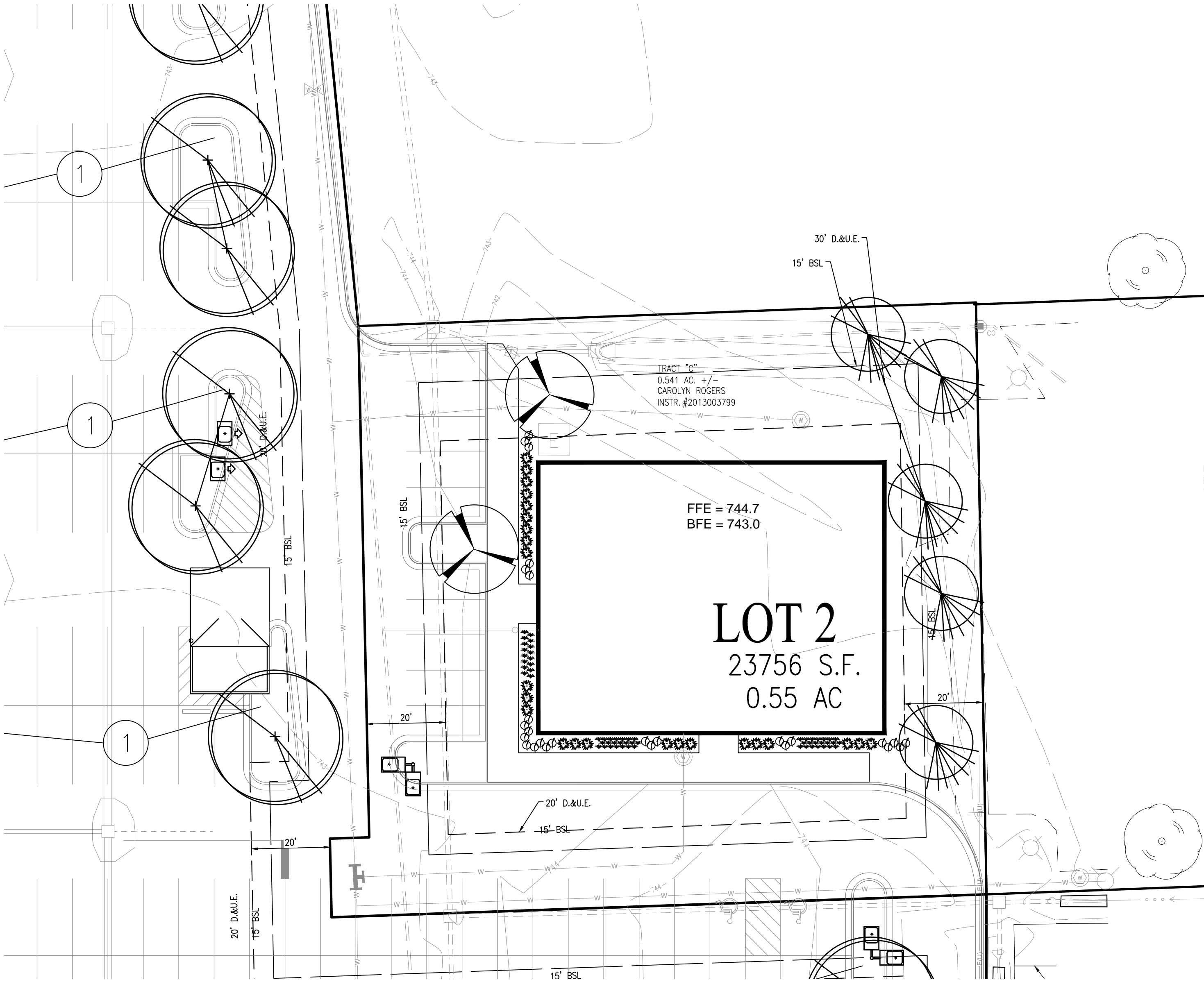


ROBERT A. MEZOWSKI LA.80050060

PREPARED FOR:
IN FRANKLIN MORTON, LLC
xxx NORTH MORTON STREET, FRANKLIN, IN 46131
LANDSCAPE PLAN LOT 1
SHEET NO.

L100
PROJECT NO.: W15.0351

LOCATION: H:\2016\W150351\Engineering\design\connect\w150351-L101.dwg
DATE: 03/17/2016 BY: JRM
PLOT: 17, 2016 - 12:09pm
PLOT: 17, 2016 - 12:09pm
PLOT: 17, 2016 - 12:09pm



LANDSCAPE PLAN NOTES

1. SOD (ALTERNATE)- ALL SOD SHALL BE CERTIFIED GRADE CULTIVATED GRASS SOD: OF 'ADVENTURE BLEND' TURF TYPE TALL FESCUE (BY GENERAL CONTRACTOR)
2. MULCH
3. REFER TO THE SIDEWALK PLANTING DETAIL ON THIS SHEET FOR ADDITIONAL LANDSCAPE QUANTITIES.

SYMBOL
QUANTITY
PLANTING AREA

PLANTING AREA LEGEND
GW = GATEWAY REQUIREMENTS
PI = PROPERTY INTERIOR REQUIREMENTS
PL = PARKING LOT REQUIREMENTS

GENERAL NOTES

1. IN CASE OF DISCREPANCIES BETWEEN THE PLAN AND THE PLANT LIST, THE PLAN SHALL DICTATE. IF IN QUESTION, CONTACT THE LANDSCAPE DESIGNER.
2. ALL SHRUBS PLANTING AREAS TO BE COVERED WITH 4" THICK LAYER OF SHREDDED HARDWOOD BARK MULCH. ALL GROUND COVER BEDS SHALL BE COVERED WITH 1" SHREDDED HARDWOOD BARK MULCH. BARK MULCH SHALL BE APPROVED BY LANDSCAPE DESIGNER AND SHALL BE UNIFORM IN TEXTURE AND COLOR AND SHALL BE OBTAINED FROM SAWMILL OR LUMBERING OPERATIONS. NO UTILITY MULCH OR PROCESSED TREE TRIMMINGS WILL BE ALLOWED.
3. AN APPROVED PRE-EMERGENT HERBICIDE SHALL BE APPLIED IN ALL PLANTING AND GROUND COVER BEDS AT RATES SPECIFIED BY MANUFACTURER FOR EACH VARIETY OF PLANT.
4. FINAL PLACEMENT OF PLANT MATERIALS, ETC. SHALL BE APPROVED BY LANDSCAPE DESIGNER BEFORE PLANTING OPERATIONS ARE TO PROCEED. ALL TREE LOCATIONS SHALL BE MARKED WITH A WOODED STAKE INDICATING VARIETY AND SIZE OF TREE. ALL GROUND COVER AND MULCH BED LINES SHALL BE MARKED BY A HIGHLY VISIBLE PAINT LINE WITH OCCASIONAL WOOD STAKES FOR REFERENCE. ALL STAKES SHALL BE REMOVED FOLLOWING PLANTING OPERATIONS. LANDSCAPE DESIGNER RESERVES THE RIGHT TO ADJUST PLANT LOCATIONS ON SITE.
5. NO SUBSTITUTIONS OF PLANT MATERIAL WILL BE ALLOWED. IF PLANTS ARE SHOWN TO BE UNAVAILABLE, THE CONTRACTOR SHALL NOTIFY LANDSCAPE DESIGNER PRIOR TO BID DATE IN WRITING. ALL PLANTS SHALL BE INSPECTED AND TAGGED WITH PROJECT IDENTIFICATION AT NURSERY OR CONTRACTORS OPERATION PRIOR TO MOVING TO JOB SITE. PLANTS MAY ALSO BE INSPECTED AND APPROVED OR REJECTED ON THE JOB SITE.
6. ALL PLANTS ARE TO MEET OR EXCEED AMERICAN STANDARDS FOR NURSERY STOCK, LATEST EDITION, AS SET FORTH BY AMERICAN ASSOCIATION OF NURSEYMEN.
7. PLANTS AND ALL OTHER MATERIALS TO BE STORED ON SITE WILL BE PLACED WHERE THEY WILL NOT CONFLICT WITH CONSTRUCTION OPERATIONS AND AS DIRECTED BY OWNER.
8. ALL NEW LANDSCAPE PLANTINGS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FOLLOWING FINAL INSPECTION BY LANDSCAPE DESIGNER. AT THE END OF THIS PERIOD, PLANT MATERIAL TERMED DEAD OR UNSATISFACTORY BY LANDSCAPE DESIGNER SHALL BE REPLACED AT NO ADDITIONAL CHARGE BY THE LANDSCAPE CONTRACTOR.
9. THE LANDSCAPE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND FEES THAT MAY BE REQUIRED FOR HIS PORTION OF WORK.
10. PEAT MOSS TO BE USED ON PROJECT SHALL BE A DOMESTIC OR IMPORTED MATERIAL, CHOCOLATE BROWN IN COLOR AND COMPOSED OF PARTIALLY DECOMPOSED VEGETABLE MATERIAL. PEAT MOSS TO ALSO BE MILDLY ACIDIC IN CHARACTER AND SHALL MEET APPROVAL OF LANDSCAPE DESIGNER.
11. LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE DESIGNER IN WRITING PRIOR TO BID DATE OF ANY PLANTS THAT HE FEELS MAY NOT SURVIVE IN LOCATIONS NOTED.
12. ALL LANDSCAPING PLANTINGS TO BE MAINTAINED FOR 1 YEAR FOLLOWING TURNOVER. MAINTENANCE TO INCLUDE WATERING, WEEDING, CULTIVATION, MULCHING, MOWING AND ALL OTHER NECESSARY OPERATIONS REQUIRED FOR PROPER ESTABLISHMENT OF PLANTINGS. NOTE: AT END OF MAINTENANCE PERIOD, CONTRACTOR TO REMOVE GUYING AND STAKING FROM TREES.
13. CONTRACTOR TO SUBMIT UNIT PRICES ON EVERY TYPE OF WORK AS REQUESTED BY LANDSCAPE DESIGNER.
14. BACKFILL FOR TREE AND SHRUB PLANTING SHALL BE 75% APPROVED TOPSOIL AND 25% APPROVED PEAT MOSS. TOP LAYER OF BACKFILL SHALL BE 100% EXISTING TOPSOIL. A 5-10-5 ANALYSIS SLOW RELEASE FERTILIZER SHALL BE INCORPORATED INTO BACKFILL AT APPROVED RATES.
15. PROVIDE MINIMUM 4" PLANTING SOIL IN ALL GROUND COVER AND FLOWER AREAS WITH MIXTURE COMPRISING OF ONE PART COMMERCIAL GRADE 'POTTING SOIL,' 5 PARTS TOPSOIL AND 4 PARTS PEAT MOSS. A FULL 4" LAYER OF APPROVED SHREDDED FIBROUS PEAT MOSS MAY BE USED IN LIEU OF PLANTING MIX.
16. PLANTS SHALL BEAR A TAG SHOWING GENUS, SPECIES AND VARIETY.
17. PLANTS SHALL BE CERTIFIED BY THE STATE OF INDIANA DEPARTMENT OF NATURAL RESOURCES AND FREE FROM DISEASE OR HAZARDOUS INSECTS.
18. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL EXISTING UTILITIES PERTAINING TO THEIR PHASE OF WORK. UTILITIES ARE SHOWN TO BE APPROXIMATE. CALL UTILITY LOCATE PRIOR TO ANY PLACEMENT OF PLANT MATERIAL OR OTHER LANDSCAPE MATERIAL.

PLANT SCHEDULE									
PLAN KEY	BOTANICAL NAME	COMMON NAME (AVERAGE MATURE HT.)	SIZE	QUANTITY	ROOT CONDITION B & B	ON CENTER SPACING	SPECIAL INSTRUCTIONS		
	CANOPY DECIDUOUS TREES								
CC	CARPINUS CAROLINIANA	AMERICAN HORNBEAM (25')	2 1/2"	5	X		SEE PLAN	X	
	ORNAMENTAL TREES								
CP	CRATAEGUS PHAENOPYRUM	WASHINGTON HAWTHORN (30')	2 1/2"	2		X	SEE PLAN	MIN. 24"	
	EVERGREEN SHRUBS								
KW	ILEX X WILLEMER	EMERALD MAGIC HOLLY (3.5')	#3	24		X	SEE PLAN	MIN. 18"	
	PERENNIALS								
CvM	COREOPSIS VERTICILLATA 'MOONBEAM'	MOONBEAM COREOPSIS	#1	26		X	SEE PLAN	X	
LsLs	LIRIOPE SPICATA 'SILVER DRAGON'	SILVER DRAGON LILYTUFT	#1	58		X	SEE PLAN	X	

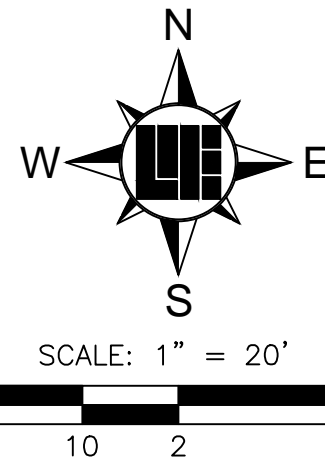
LANDSCAPE REQUIREMENTS SUMMERY PER ORDINANCE

REQUIREMENT:	REQUIRED:	PROVIDED:
SECTION 3.3. STANDARDS (MXC) - MAXIMUM LOT COVERAGE (ALL HARD SURFACES) = 75%	(23,761 SF = LOT AREA) - 5,941 SF OPEN SPACE (25%) REQUIRED	- 7,780 SF (32.7%)
SECTION 5.4. GATEWAY (GW-OL) C.2.1. SIDEWALKS & PEDESTRIAN WALKWAYS - WALKWAYS ALONG THE FACADES OF THE BUILDING SHALL BE CONCRETE, 5' WIDE AND SEPARATED FROM THE BUILDING BY A LANDSCAPE AREA THAT IS A MINIMUM OF 5' IN WIDTH. THE LANDSCAPE AREA SHALL INCLUDE BENCHES AND SEATING AREAS, AND BE PLANTED WITH FLOWERS, TREES, AND SHRUBS FOR A MINIMUM OF 50% OF ITS LENGTH.	- 158 LINEAR FT. x 50% = 79 LF BY 5' WIDE = 395 SF OF PLANTING AREA REQUIRED.	- 787 SF PLANTING AREA
SECTION 7.16: LANDSCAPING STANDARDS D. PROPERTY INTERIOR REQUIREMENTS - PROVIDE 1 BROADLEAF, DECIDUOUS TREE AND/OR EVERGREEN CONIFER FOR EVERY 1,500 SQ. FT. OF REQUIRED YARD AREA.	- 5,941 SF GREEN SPACE - 4 TREES	- 7,780 SF GREEN SPACE - 4 TREES
SECTION 7.16: LANDSCAPING STANDARDS F. PARKING LOT INTERIOR REQUIREMENTS: - LANDSCAPE ISLANDS WITH A SURFACE AREA EQUAL TO 5% OF THE AREA OF THE PAVED SURFACE SHALL BE PROVIDED IN ALL PARKING LOTS. - ALL LANDSCAPE ISLANDS MUST BE A MINIMUM OF 300 SQ. FT. IN AREA. - A MINIMUM OF 1 BROADLEAF/DECIDUOUS TREE SHALL BE PROVIDED FOR EVERY 300 SQ.FT. OF LANDSCAPED AREA REQUIRED.	- 7,830 SF PAVED AREA x 5% = 391 SF PLANTING ISLANDS - 2 TREES	- 401 SF ISLANDS - 2 TREES

PLAN CERTIFICATE NOTE:

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

FINAL DRAWINGS FOR THE IN FRANKLIN MORTON, LLC SITE WERE PREPARED BY WEIHE ENGINEERS, INC. AND STEVEN SCOTT RUCKER. FINAL CONSTRUCTION PLANS ARE THOSE PLANS CONTAINING A FINAL REVISION DATE AFTER 03/17/2016. WEIHE ENGINEERS, INC. AND STEVEN SCOTT RUCKER ACCEPT RESPONSIBILITY ONLY FOR THE IN FRANKLIN MORTON, LLC SITE IMPROVEMENTS RELATED TO THE ENGINEERING WORK SHOWN ON THESE PLANS.



PREPARED FOR:
IN FRANKLIN MORTON, LLC
xxx NORTH MORTON STREET, FRANKLIN, IN 46131
LANDSCAPE PLAN LOT 2

SHEET NO.

L101

PROJECT NO.
W15.0351

10505 N. College Avenue
Indianapolis, Indiana 46280
weihe.net

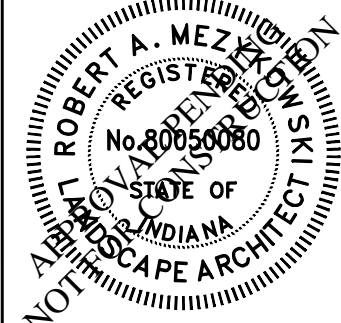
317 | 846 - 6611
800 | 452 - 6408
317 | 843 - 0546 /fax

ALLAN H. WEIHE, P.E., L.S. - FOUNDER

WEIHE ENGINEERS

Land Surveying | Civil Engineering
Landscape Architecture

PROJECT NO.: W15.0351	DATE: 03/17/2016	BY: BUS	REVISIONS AND ISSUES
DWG NAME: W150351 LOT 040.dwg			
DESIGNED BY: DRANKS, RAM			
CHECKED BY: BUS			
DATE: 03/17/2016			



ROBERT A. MEZYS, L.A.80050080

LOCATION: H:\2015\W150351\Engineering\design\connect\w150351-1.01.dwg
DATE: 03/17/2016
DRAWN BY: schieff
PLOTED BY: schieff



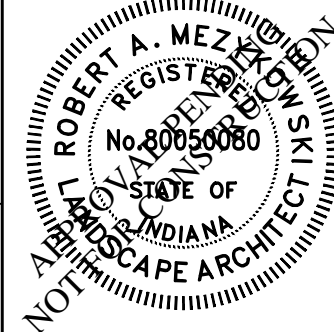
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PER INDIANA STATE LAW IC 8-1-26,
IT IS AGAINST THE LAW TO EXCAVATE
WITHOUT NOTIFYING THE UNDERGROUND
LOCATION SERVICE TWO (2) WORKING
DAYS BEFORE COMMENCING WORK.

PREPARED FOR:
IN FRANKLIN
MORTON, LLC

xxx NORTH MORTON STREET, FRANKLIN, IN 46131

ROBERT A. MEZYKOWSKI



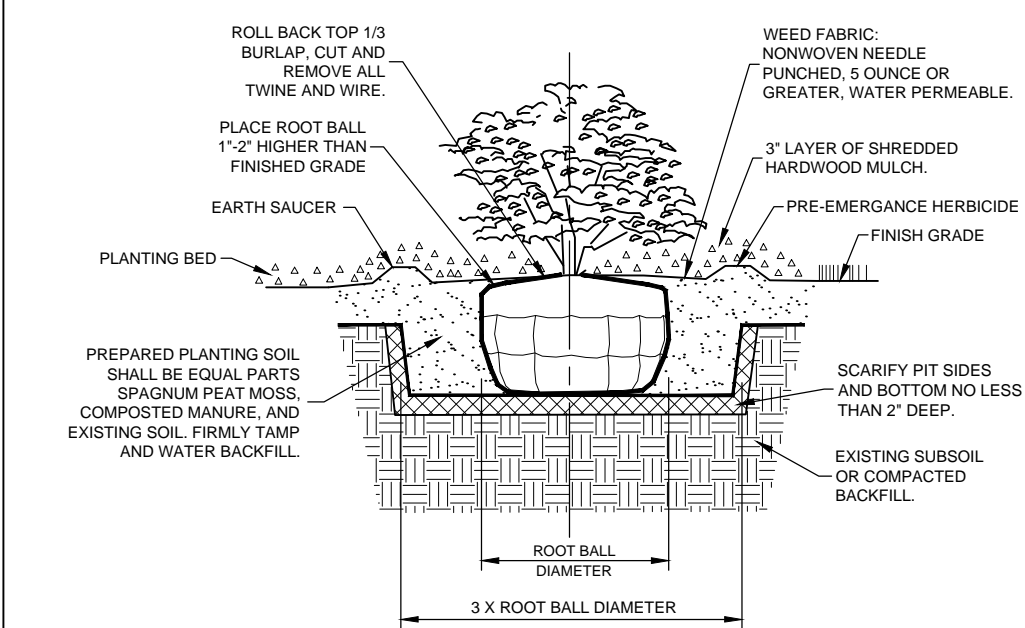
REVISIONS AND ISSUES

DATE:	03/17/2016
CITY SUBMITTAL:	
BY:	BUS
PROJECT NO.:	W15.0351
DWG NAME:	W150351-1.01.dwg
DESIGNED BY:	BRANKS, KIM
DRAWN BY:	RAM
CHECKED BY:	BUS
DATE:	03/17/2016

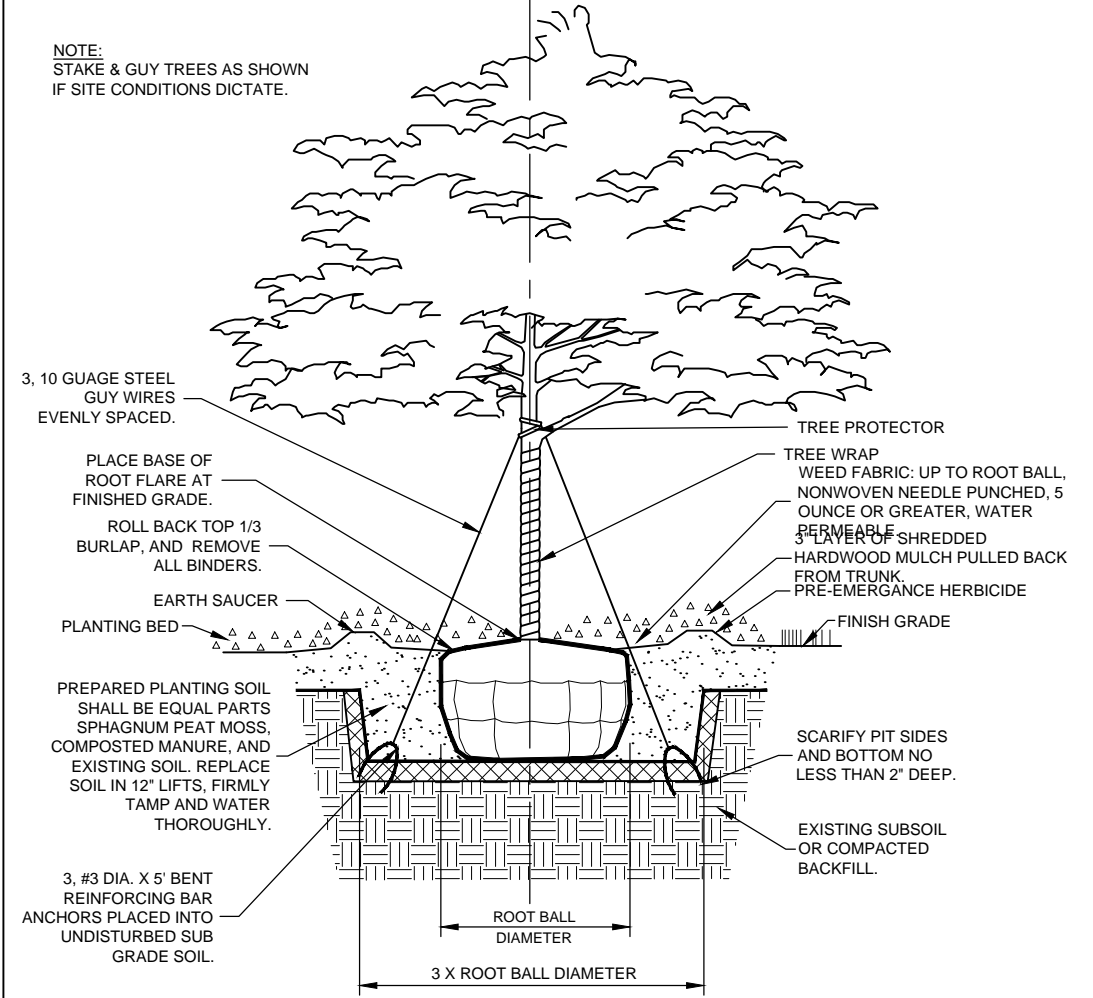
WEIHE ENGINEERS

Land Surveying | Civil Engineering
Landscape Architecture

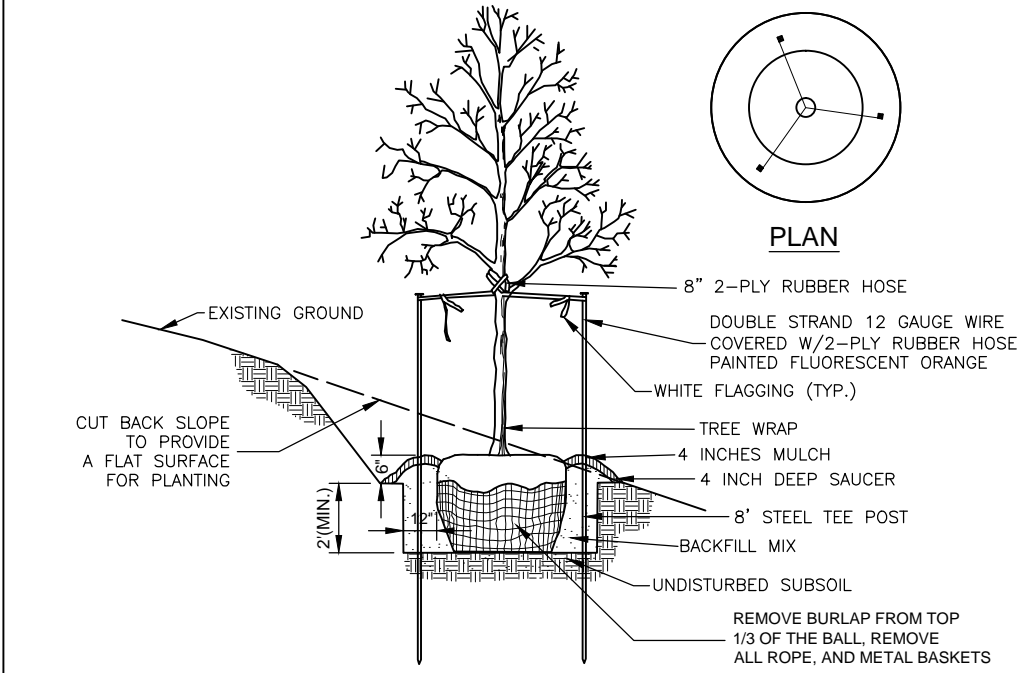
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Indianapolis, Indiana 46280
weihe.net
317 | 846 - 6611
800 | 452 - 6408
317 | 843 - 0546 /ax
ALLAN H. WEIHE, P.E., L.S. - FOUNDER



SHRUB & SMALL TREE PLANTING DETAIL
(NO SCALE)

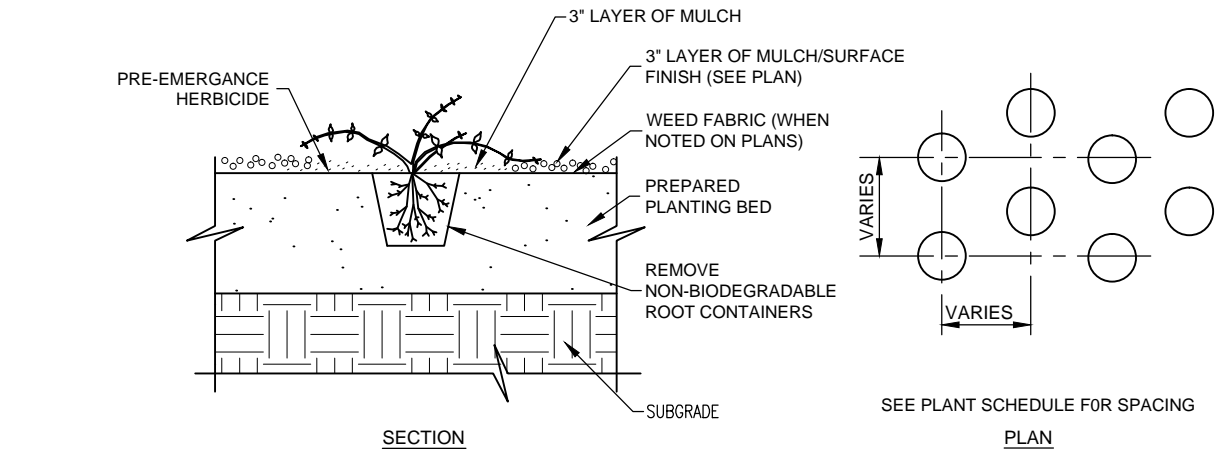


SHADE TREE PLANTING DETAIL
(NO SCALE)

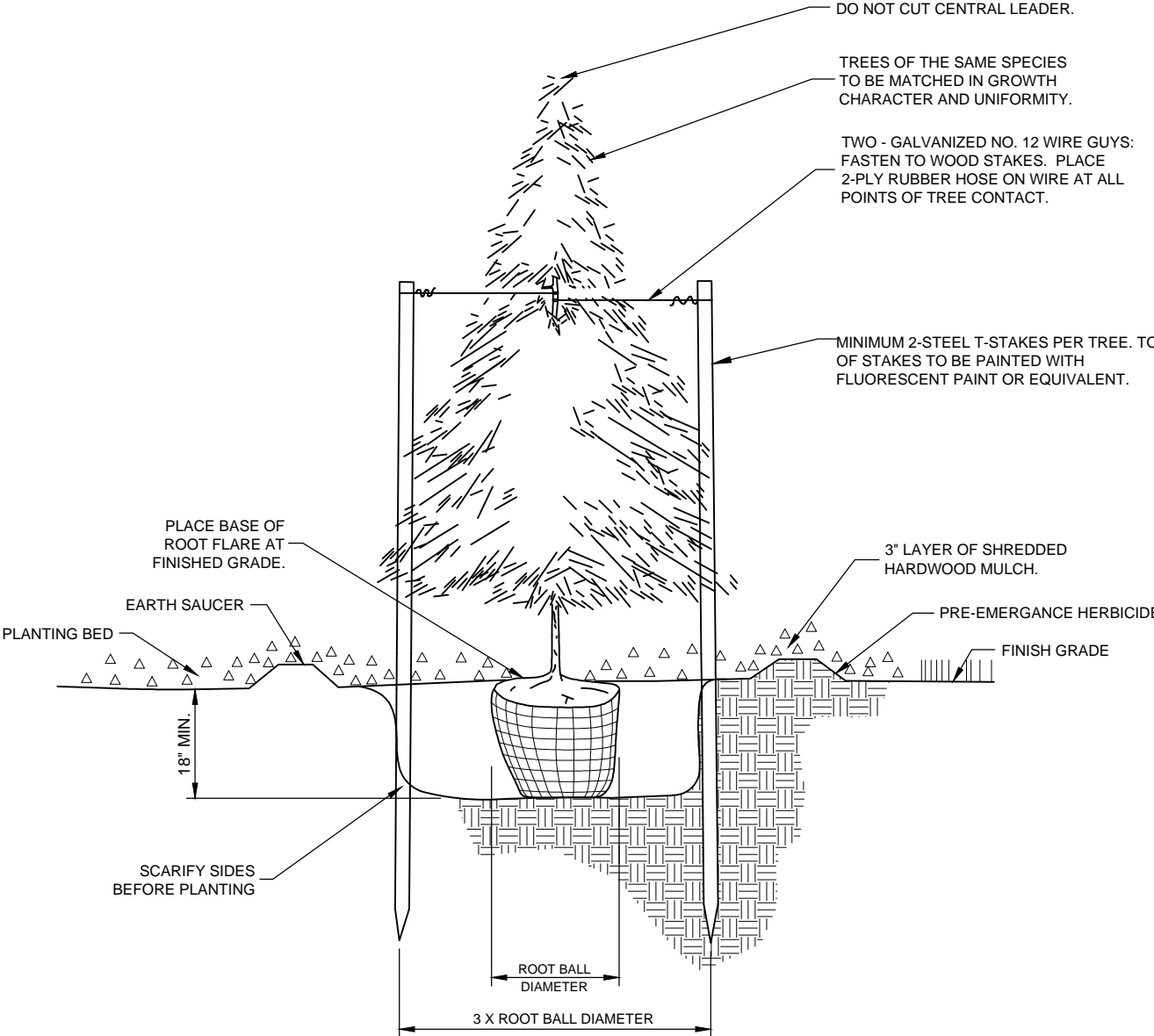


NOTES:
• SEE LANDSCAPE NOTES FOR THE TYPE OF MULCH MATERIAL TO USE.
• TOP OF ROOT BALL TO BE SET 4\"/>

TREE PLANTING ON SLOPE
(NO SCALE)



GROUNDCOVER PLANTING
(NO SCALE)



EVERGREEN PLANTING & STAKING
(NO SCALE)