

**GENERAL NOTES**

**GENERAL SITE**

- FLOOD PLAIN DATA: THE PORTION OF THIS PROPERTY WHICH LIES WITHIN THE 100 YEAR FLOOD ZONE (ZONE A) IS INDICATED ON THIS PLAN. AS SAID PROPERTY PLOTS BY SCALE ON THE FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY PANEL 180256 @100B, DATED MARCH 19, 1982.

- CONTOURS: BUILDING AND TREE LINES WERE TAKEN FROM VANDERBURGH COUNTY TOPOGRAPHIC MAPS (SHEET 180 MARCH 27, 1982). CONTOURS AND BALANCE OF TOPOGRAPHIC INFORMATION WAS GENERATED USING ACTUAL FIELD TOPO COLLECTED FEB. 1999.

**STORM SEWERS**

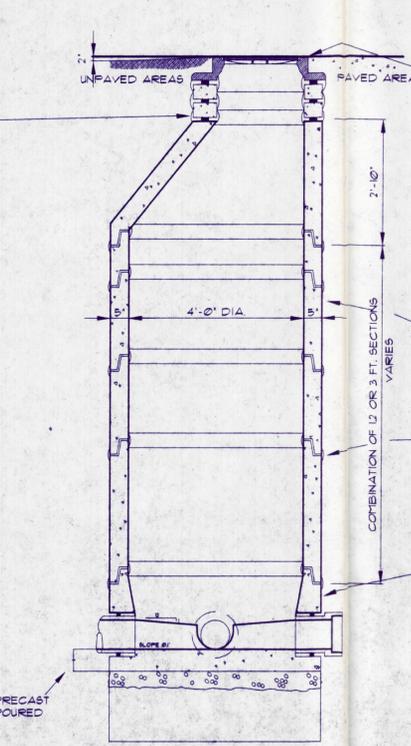
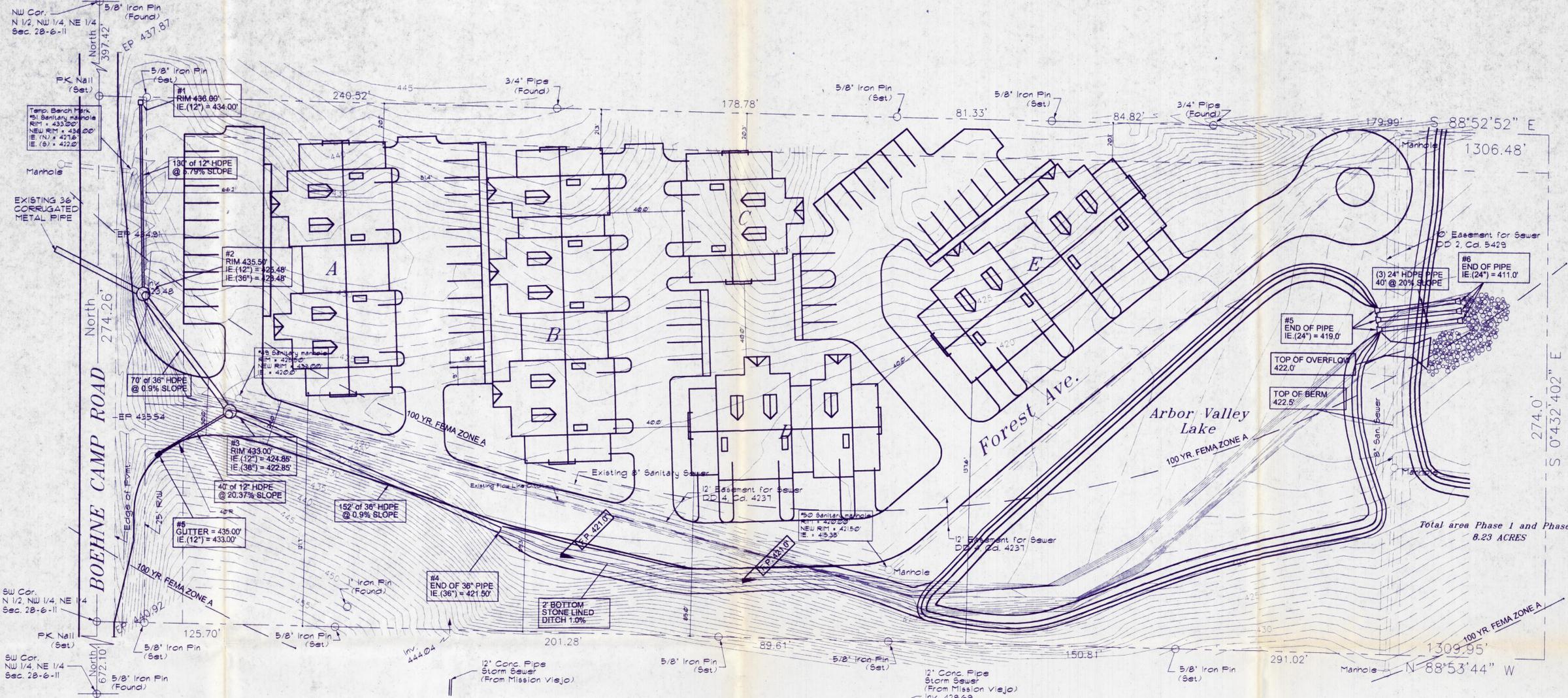
- STORM DRAINAGE SYSTEM TO BE IN TEMPORARY SERVICE FOR SITE DRAINAGE DURING CONSTRUCTION AND MUST BE CLEANED BEFORE CONSIDERATION FOR MAINTENANCE ACCEPTANCE.

- PRODUCT CERTIFICATIONS OR REPORTS ARE TO BE OBTAINED BY THE CONTRACTOR FROM THE CONCRETE SUPPLIER AND MADE AVAILABLE TO THE COUNTY HIGHWAY ENGINEER'S OFFICE.

- ALL STORM SEWERS MUST BE CONSTRUCTED IN ACCORDANCE WITH ASTM D3212

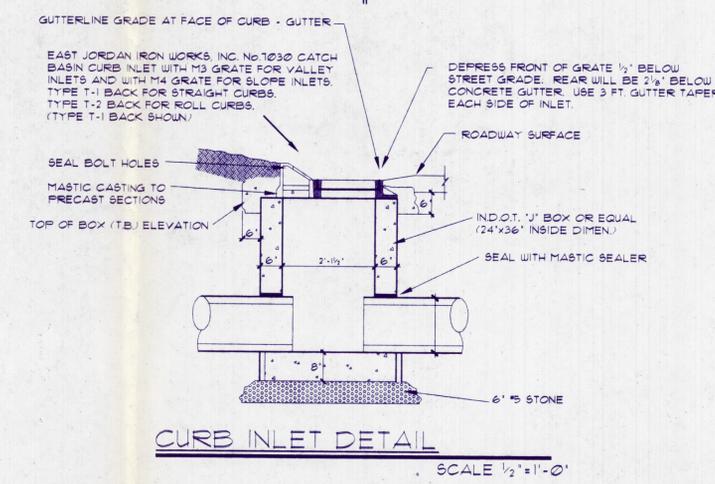
- STORM SEWER PIPE SHALL CONFORM TO HDPE ASTM D3350 CELL CLASSIFICATION 324420C OR ASTM D1248 TYPE III, CLASS C, CATEGORY 4, GRADE F33.

- ALL LENGTHS OF HDPE STORM SEWER TERMINATING OR BEGINNING WITH END SECTIONS AS SHOWN ON THIS PLAN REFER TO THE DISTANCE FROM THE CENTERLINE OF STRUCTURE TO THE FLOWLINE OF THE END SECTION



**PRECAST CONCRETE MANHOLE DETAIL**  
SCALE 1/2" = 1'-0"

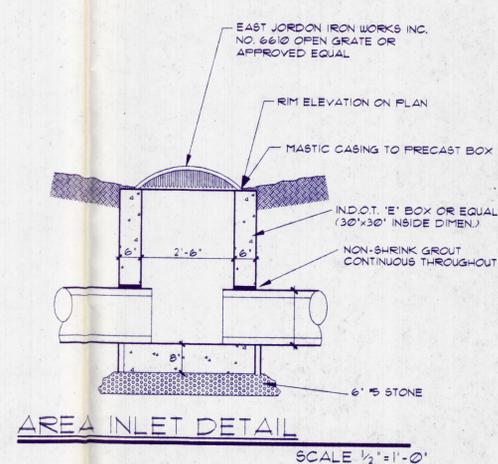
- NOTES**
1. MANHOLE FRAME & COVER: ASTM A-48, LATEST EDITION, CLASS 35 WITH 24" DIAMETER FRAME.  
TRAFFIC AREAS: 1" MIN. HGT. 400# MIN. WGT. EQUAL TO NEENAH R-1656 WITH EXTRA HEAVY DUTY COVER MACHINED BEARING SURFACE & CONCEALED LIFT HOLES. (SET FLUSH WITH FINISHED STREET SURFACE)  
NON-TRAFFIC AREAS: 4" OR 1" HGT. 285# MIN. WGT. EQUAL TO NEENAH R-1656 WITH HEAVY DUTY COVER MACHINED BEARING SURFACE & CONCEALED LIFT HOLES. SET TOP 2" ABOVE GRADE (AFTER EARTH SETTLEMENT).
  2. PRECAST CONE AND RISER SECTIONS ASTM C-478, 4000 PSI CONCRETE
  3. JOINTS: O-RING RUBBER GASKET JOINT ASTM C-443 OR ASTM C-16 WITH PREFORMED JOINT FILLER STRIP OR FORSHEDA 114 PRE-LUBRICATED MANHOLE JOINT SEAL CONFORMING TO ASTM C443 OR EQUAL INTERIOR AND EXTERIOR OF JOINT TO BE GROUTED WITH NON-SHRINK GROUT.
  4. PRECAST BASE SECTION WITH DURA TECH DS-3 STYLE GASKET FOR 8" & 10" PIPE AND TS-X TYPE GASKET FOR 6" PIPE.
- OR: (WHEN INSTALLING ON EXISTING SEWER) POURED CONCRETE BASE SECTION 3500 PSI CONCRETE WITH SMOOTH INVERT CHANNELS ACCURATELY SHAPED TO A DEPTH EQUAL TO 1/2 OF THE INSIDE DIA. OF THE SEWER PIPE. MANHOLE SHELVE TO SLOPE TOWARDS CHANNEL AT 1/2 MIN. BASE OVERHANG 6". PIPE TO BE CAST INTO POURED BASE USING A RUBBER GASKET WATER STOP.



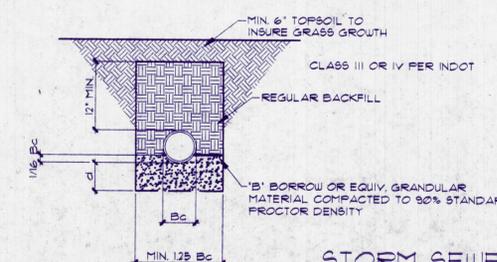
**CURB INLET DETAIL**  
SCALE 1/2" = 1'-0"

**DRAINAGE PLAN (PHASE 1)**

Scale 1" = 30'-0"



**AREA INLET DETAIL**  
SCALE 1/2" = 1'-0"



**STORM SEWER BEDDING DETAILS**  
SCALE 1/2" = 1'-0"

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

**DEPTH OF BEDDING MATERIAL BELOW PIPE:**

21" & SMALLER	3"
30" TO 60"	4"
66" & LARGER	6"

**LEGEND:**

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



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Drawn By: D.T.  
Date: XXXXXX  
Revision Date: XXXXXX

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Evansville, Indiana