

Certified by:

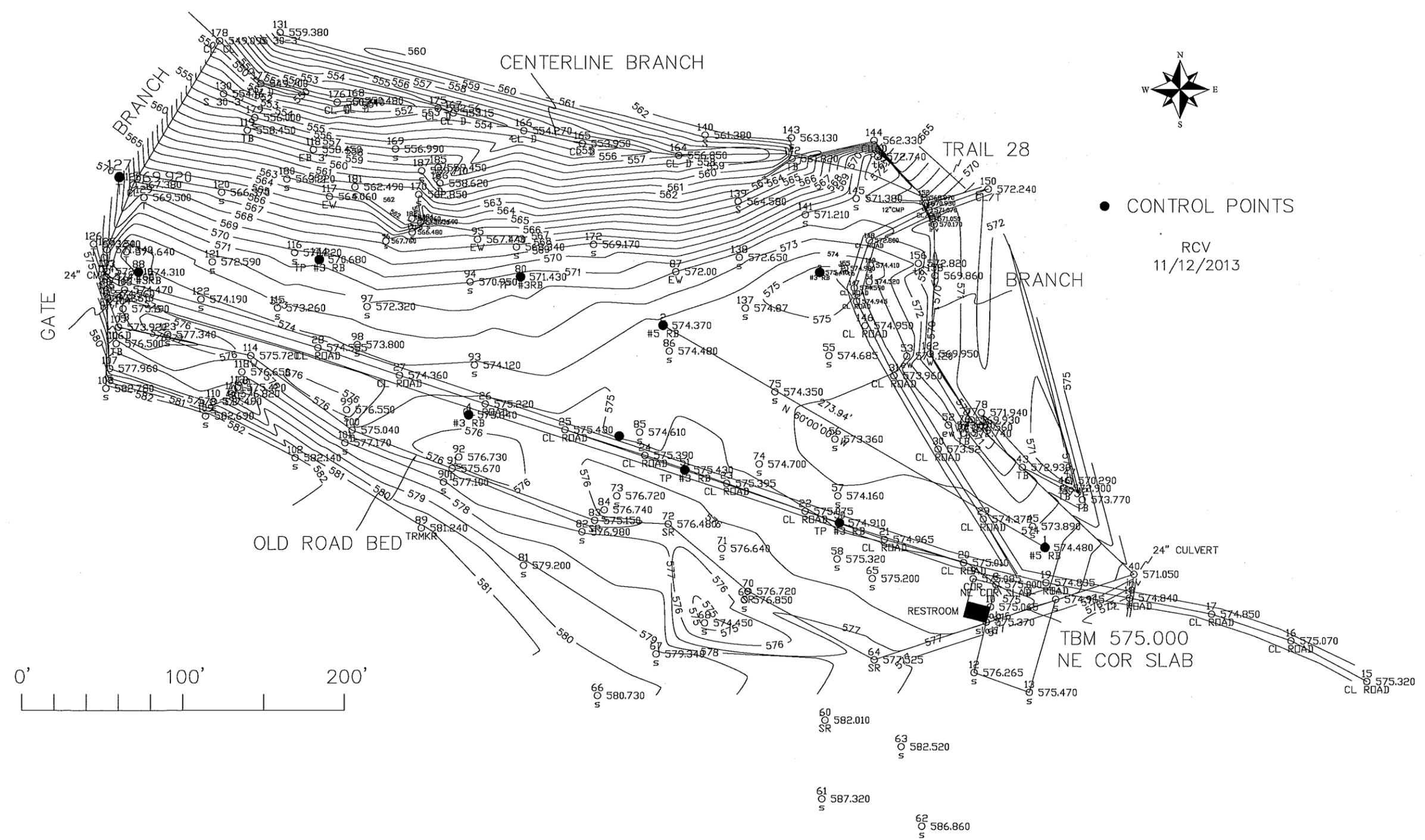
REDBIRD STATE RECREATION AREA
PKG AND SHELTER - SURVEY
DEPARTMENT OF NATURAL RESOURCES
15298 WEST COUNTY ROAD 350 NORTH
DUGGER, INDIANA 47438



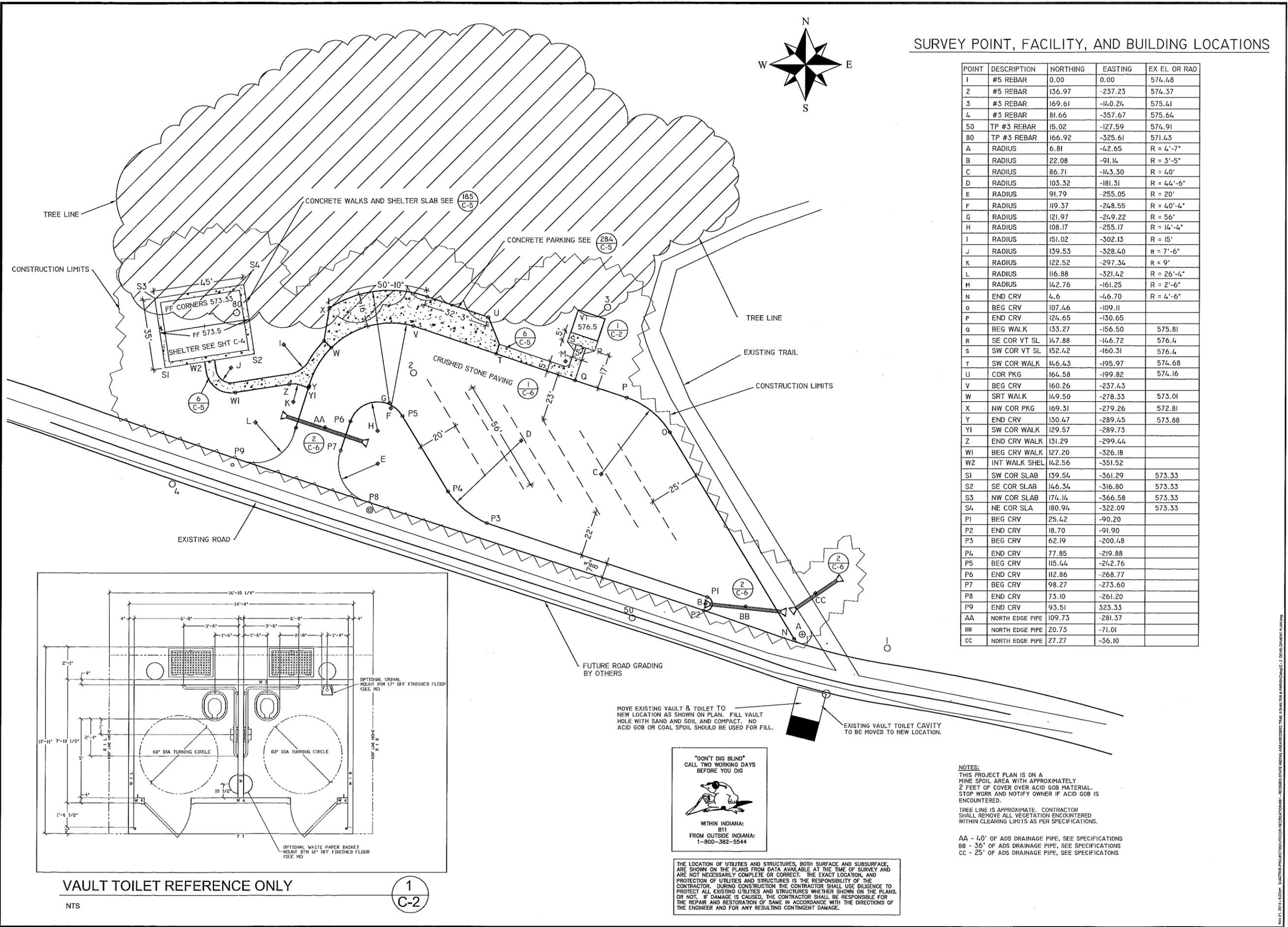
STATE OF INDIANA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENGINEERING
ROOM 1050 INDIANA GOVERNMENT CENTER SOUTH
402 WEST WASHINGTON STREET
INDIANAPOLIS, INDIANA 46204
TEL 317-252-4150, FAX 317-233-1205

Revisions:

Project Number:	E100010
Requisition Number:	Requisition#
Designer:	RV&DS
Drawn:	DS
DNR Approval:	
Client Approval:	
File Number:	File#
Drawing Number:	C-1
Sheet:	2 of 8

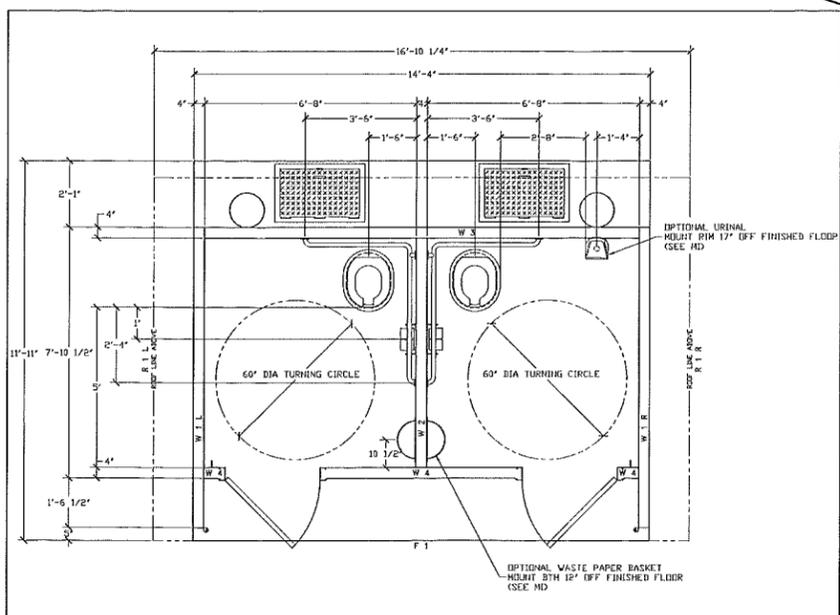


No. 18, 2014 - 2016, INDIANA GOVERNMENT CENTER SOUTH, INDIANAPOLIS, INDIANA 46204, TEL 317-252-4150, FAX 317-233-1205



SURVEY POINT, FACILITY, AND BUILDING LOCATIONS

POINT	DESCRIPTION	NORTHING	EASTING	EX EL. OR RAD
1	#5 REBAR	0.00	0.00	574.48
2	#5 REBAR	136.97	-237.23	574.37
3	#3 REBAR	169.61	-140.24	575.41
4	#3 REBAR	81.66	-357.67	575.64
50	TP #3 REBAR	15.02	-127.59	574.91
80	TP #3 REBAR	166.92	-325.61	571.43
A	RADIUS	6.81	-42.65	R = 4'-7"
B	RADIUS	22.08	-91.14	R = 3'-5"
C	RADIUS	86.71	-143.30	R = 40'
D	RADIUS	103.32	-181.31	R = 44'-6"
E	RADIUS	91.79	-255.05	R = 20'
F	RADIUS	119.37	-248.55	R = 40'-4"
G	RADIUS	121.97	-249.22	R = 56'
H	RADIUS	108.17	-255.17	R = 14'-4"
I	RADIUS	151.02	-302.13	R = 15'
J	RADIUS	139.53	-328.40	R = 7'-6"
K	RADIUS	122.52	-297.34	R = 9'
L	RADIUS	116.88	-321.42	R = 26'-4"
M	RADIUS	142.76	-161.25	R = 2'-6"
N	END CRV	4.6	-46.70	R = 4'-6"
O	BEG CRV	107.46	-109.11	
P	END CRV	124.65	-130.65	
Q	BEG WALK	133.27	-156.50	575.81
R	SE COR VT SL	147.88	-146.72	576.4
S	SW COR VT SL	152.42	-160.31	576.4
T	SW COR WALK	146.43	-195.97	574.68
U	COR PKG	164.58	-199.82	574.16
V	BEG CRV	160.26	-237.43	
W	SRT WALK	149.50	-278.33	573.01
X	NW COR PKG	169.31	-279.26	572.81
Y	END CRV	130.47	-289.45	573.88
Y1	SW COR WALK	129.57	-289.73	
Z	END CRV WALK	131.29	-299.44	
W1	BEG CRV WALK	127.20	-326.18	
W2	INT WALK SHEL	142.56	-351.52	
S1	SW COR SLAB	139.54	-361.29	573.33
S2	SE COR SLAB	146.34	-316.80	573.33
S3	NW COR SLAB	174.14	-366.58	573.33
S4	NE COR SLA	180.94	-322.09	573.33
P1	BEG CRV	25.42	-90.20	
P2	END CRV	18.70	-91.90	
P3	BEG CRV	62.19	-200.48	
P4	END CRV	77.85	-219.88	
P5	BEG CRV	115.44	-242.76	
P6	END CRV	112.86	-268.77	
P7	BEG CRV	98.27	-273.60	
P8	END CRV	73.10	-261.20	
P9	END CRV	93.51	323.33	
AA	NORTH EDGE PIPE	109.73	-281.37	
BB	NORTH EDGE PIPE	20.73	-71.01	
CC	NORTH EDGE PIPE	27.27	-36.10	



VAULT TOILET REFERENCE ONLY

NTS

1
C-2

MOVE EXISTING VAULT & TOILET TO NEW LOCATION AS SHOWN ON PLAN. FILL VAULT HOLE WITH SAND AND SOIL AND COMPACT. NO ACID GOB OR COAL SPOIL SHOULD BE USED FOR FILL.

EXISTING VAULT TOILET CAVITY TO BE MOVED TO NEW LOCATION.

"DON'T DIG BLIND"
CALL TWO WORKING DAYS BEFORE YOU DIG

WITHIN INDIANA:
811
FROM OUTSIDE INDIANA:
1-800-382-5544

THE LOCATION OF UTILITIES AND STRUCTURES, BOTH SURFACE AND SUBSURFACE, ARE SHOWN ON THE PLANS FROM DATA AVAILABLE AT THE TIME OF SURVEY AND ARE NOT NECESSARILY COMPLETE OR CORRECT. THE EXACT LOCATION, AND PROTECTION OF UTILITIES AND STRUCTURES IS THE RESPONSIBILITY OF THE CONTRACTOR. DURING CONSTRUCTION THE CONTRACTOR SHALL USE DILIGENCE TO PROTECT ALL EXISTING UTILITIES AND STRUCTURES WHETHER SHOWN ON THE PLANS, OR NOT. IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RESTORATION OF SAME IN ACCORDANCE WITH THE DIRECTIONS OF THE ENGINEER AND FOR ANY RESULTING CONTINGENT DAMAGE.

NOTES:
THIS PROJECT PLAN IS ON A MINE SPOIL AREA WITH APPROXIMATELY 2 FEET OF COVER OVER ACID GOB MATERIAL. STOP WORK AND NOTIFY OWNER IF ACID GOB IS ENCOUNTERED.

TREE LINE IS APPROXIMATE. CONTRACTOR SHALL REMOVE ALL VEGETATION ENCOUNTERED WITHIN CLEARING LIMITS AS PER SPECIFICATIONS.

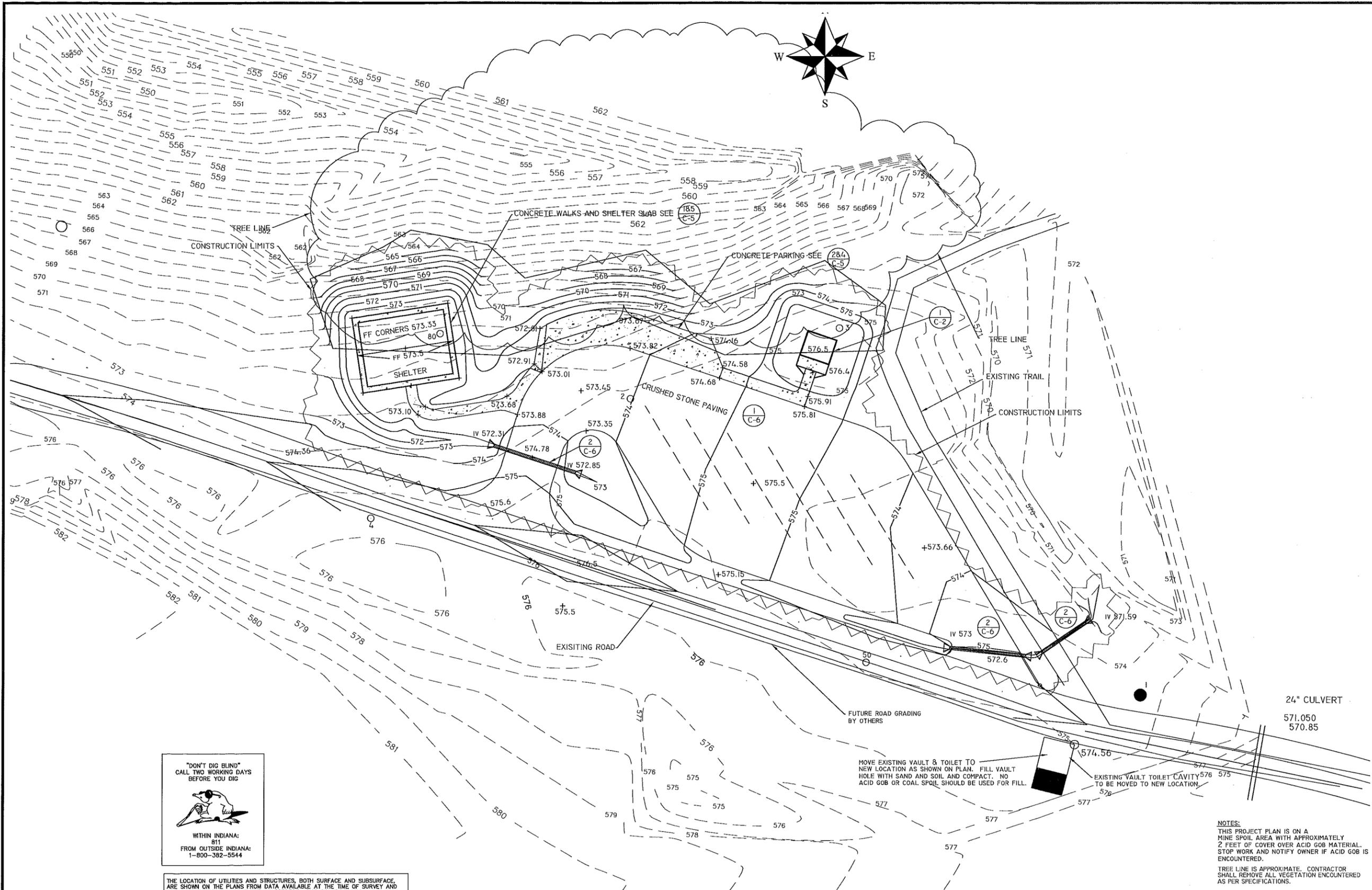
AA - 40' OF ADS DRAINAGE PIPE, SEE SPECIFICATIONS
BB - 36' OF ADS DRAINAGE PIPE, SEE SPECIFICATIONS
CC - 25' OF ADS DRAINAGE PIPE, SEE SPECIFICATIONS

REDBIRD STATE RECREATION AREA
PKG AND SHELTER - DEVELOPMENT
DEPARTMENT OF NATURAL RESOURCES
15298 WEST COUNTY ROAD 350 NORTH
DUGGER, INDIANA 47438

STATE OF INDIANA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENGINEERING
ROOM 1036 INDIANA GOVERNMENT CENTER SOUTH
402 WEST WASHINGTON STREET
INDIANAPOLIS, INDIANA 46204
TEL 317-232-4150, FAX 317-233-1205

Revisions:

Project Number:	E100010
Requisition Number:	Requisition#
Designer:	DS
Drawing Date:	8-14-14
Drawer:	DS
Drawing Scale:	1" = 20'
DNR Approval:	
Client Approval:	
File Number:	File#
Drawing Number:	C-2
Sheet:	3 of 8



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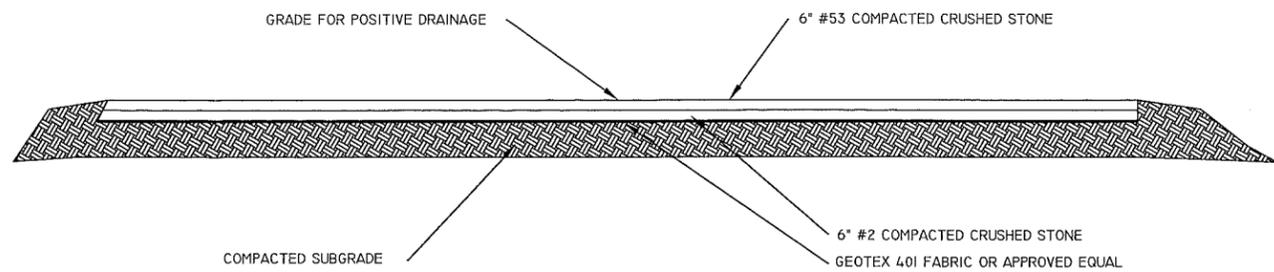
REDBIRD STATE RECREATION AREA
PKG AND SHELTER - GRADING
DEPARTMENT OF NATURAL RESOURCES
15298 WEST COUNTY ROAD 350 NORTH
DUGGER, INDIANA 47438



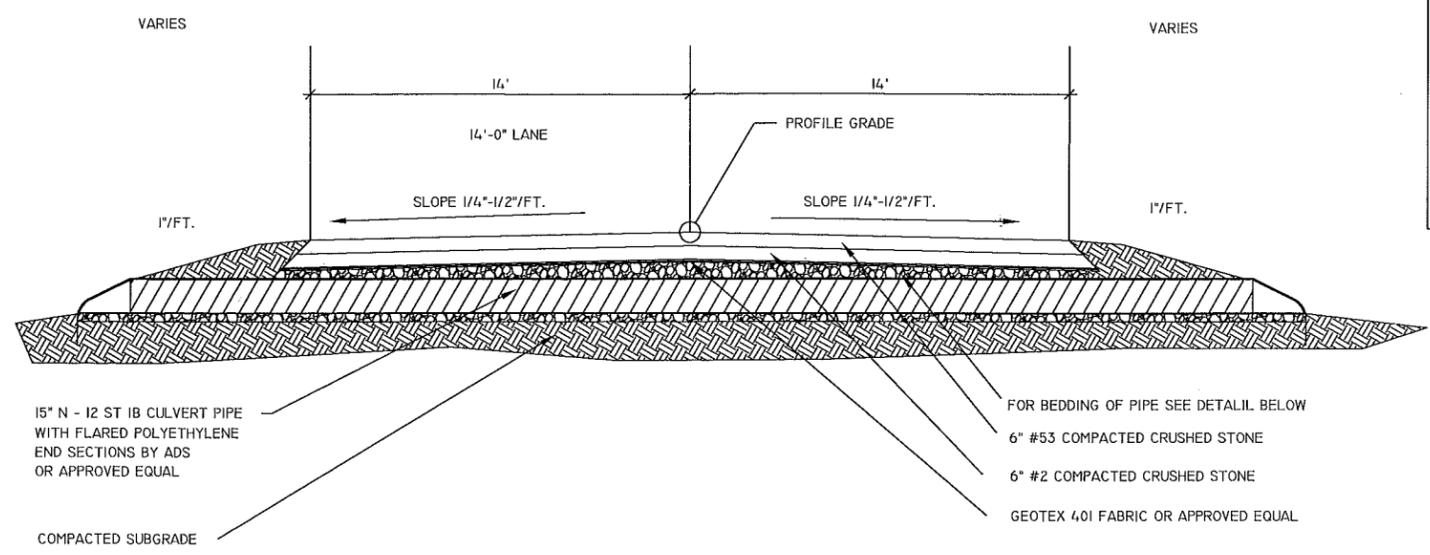
STATE OF INDIANA
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402 WEST WASHINGTON STREET
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TEL 317-232-4150, FAX 317-233-1205

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Sheet:	4 of 8

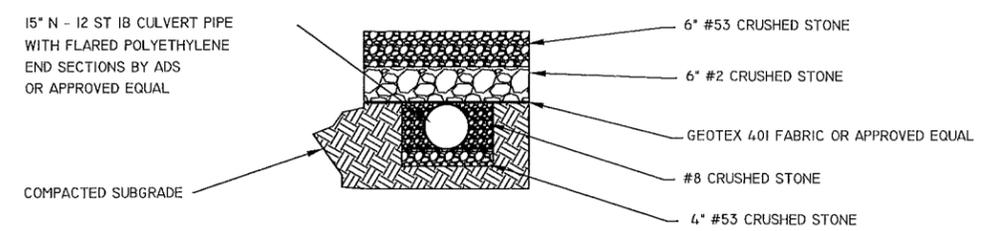
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PARKING LOT SECTION 1
NO SCALE
C-6

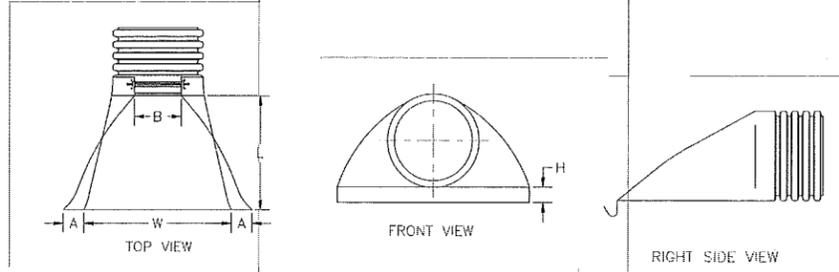


PARKING LOT SECTION 2
NO SCALE
C-6



PIPE BEDDING 3
NO SCALE
C-6

PIPE DIAMETER, in (mm)						
Diameter in (mm)	12 (300)	15 (375)	18 (450)	24 (600)	30 (750)	36 (900)
A	6.5 (165)	6.5 (165)	7.5 (191)	7.5 (191)	7.5 (191)	7.5 (191)
B (max)	10.0 (254)	10.0 (254)	15.0 (381)	18.0 (475)	22.0 (559)	25.0 (635)
H	6.5 (165)	8.5 (216)	6.5 (165)	6.5 (165)	8.6 (218)	8.6 (218)
L	25.0 (635)	25.0 (635)	32.0 (813)	36.0 (914)	58.0 (1473)	58.0 (1473)
W	29.0 (737)	29.0 (737)	35.0 (889)	45.0 (1143)	63.0 (1600)	63.0 (1600)



ADS PE FLARED END SECTIONS 4
NO SCALE
C-6

Certified by:

REDBIRD STATE RECREATION AREA
PKG AND SHELTER - DRAINAGE DETAILS
DEPARTMENT OF NATURAL RESOURCES
15298 WEST COUNTY ROAD 350 NORTH
DUGGER, INDIANA 47438

STATE OF INDIANA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENGINEERING
ROOM W290, INDIANA GOVERNMENT CENTER SOUTH
402 WEST WASHINGTON STREET
INDIANAPOLIS, INDIANA 46204
TEL 317-232-4150, FAX 317-231-1205

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File Number:	File#
Drawing Number:	C-6
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