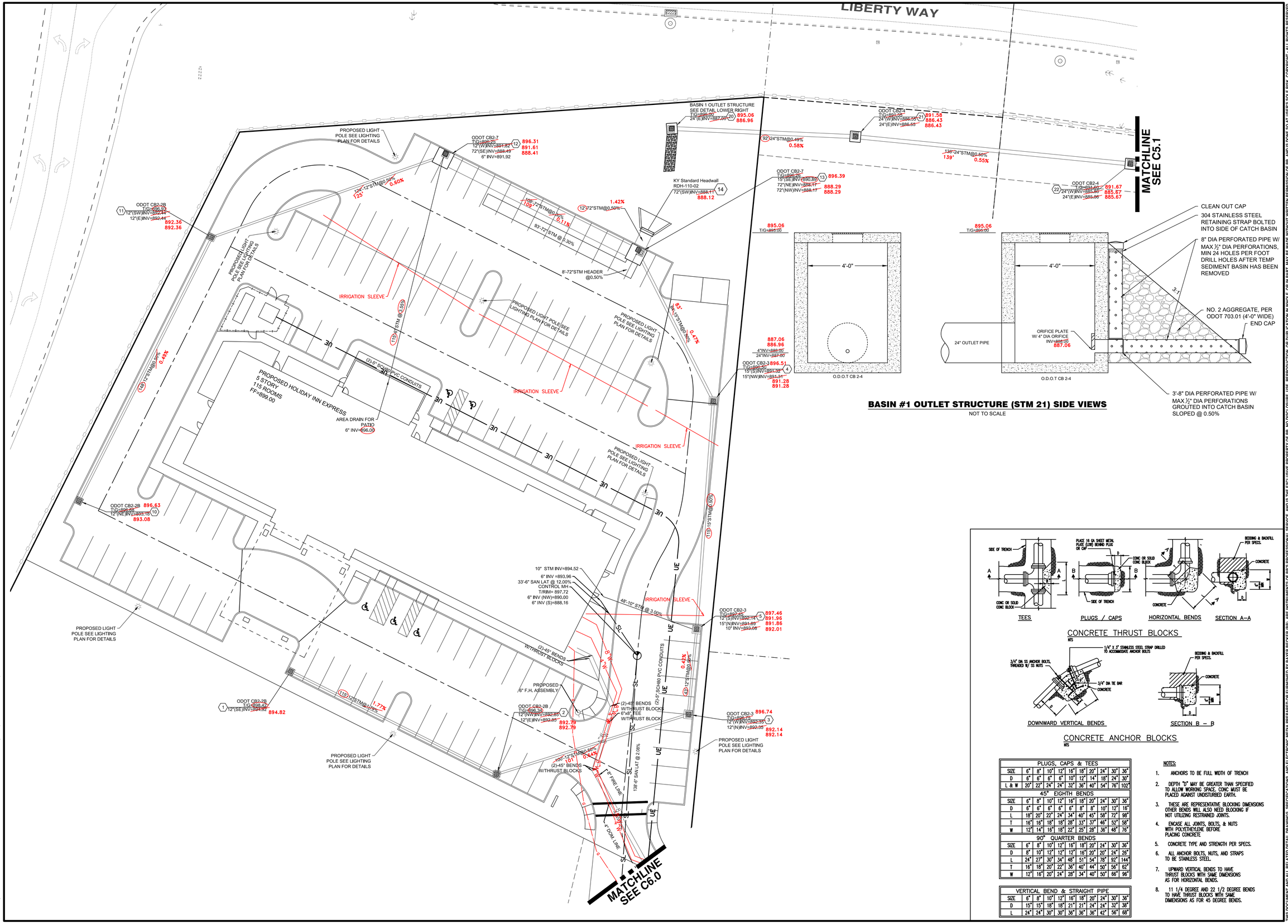


BASIN #1 OUTLET STRUCTURE (STM 21) SIDE VIEWS
NOT TO SCALE

CONCRETE ANCHOR BLOCKS

NTS

PLUGS, CAPS & TEES									
SIZE	6"	8"	10"	12"	16"	18"	20"	24"	30"	36"
D	6"	6"	6"	8"	10"	12"	14"	18"	24"	30"
L & W	20"	22"	24"	24"	32"	36"	40"	54"	76"	102"

45° EIGHTH BENDS									
SIZE	6"	8"	10"	12"	16"	18"	20"	24"	30"	36"
D	6"	6"	6"	6"	6"	8"	8"	10"	12"	16"
L	18"	20"	22"	24"	34"	40"	45"	58"	72"	98"
T	16"	16"	18"	18"	28"	33"	37"	46"	52"	58"
W	12"	14"	16"	18"	22"	25"	28"	36"	48"	76"

90° QUARTER BENDS									
SIZE	6"	8"	10"	12"	16"	18"	20"	24"	30"	36"
D	8"	10"	12"	12"	16"	20"	20"	24"	26"	
L	24"	27"	30"	34"	48"	51"	54"	78"	92"	144"
T	16"	18"	20"	22"	36"	40"	44"	50"	56"	62"
W	12"	16"	20"	24"	28"	34"	40"	50"	66"	96"

VERTICAL BEND & STRAIGHT PIPE									
SIZE	6"	8"	10"	12"	16"	18"	20"	24"	30"	36"
D	15"	15"	18"	18"	21"	21"	24"	24"	32"	38"
L	24"	24"	30"	30"	36"	36"	42"	56"	68"	

NOTES:

1. ANCHORS TO BE FULL WIDTH OF TRENCH
2. DEPTH "D" MAY BE GREATER THAN SPECIFIED TO ALLOW WORKING SPACE. CONC MUST BE PLACED AGAINST UNDISTURBED EARTH.
3. THESE ARE REPRESENTATIVE BLOCKING DIMENSIONS OTHER BENDS WILL ALSO NEED BLOCKING IF NOT UTILIZING RESTRAINED JOINTS.
4. ENCASE ALL JOINTS, BOLTS, & NUTS WITH POLYETHEYLENE BEFORE PLACING CONCRETE
5. CONCRETE TYPE AND STRENGTH PER SPECS.
6. ALL ANCHOR BOLTS, NUTS, AND STRAPS TO BE STAINLESS STEEL.
7. UPWARD VERTICAL BENDS TO HAVE THRUST BLOCKS WITH SAME DIMENSIONS AS FOR HORIZONTAL BENDS.
8. 11 1/4 DEGREE AND 22 1/2 DEGREE BENDS TO HAVE THRUST BLOCKS WITH SAME DIMENSIONS AS FOR 45 DEGREE BENDS.

Basis of Bearing:
State Plane NAD83 (2011)

0 10 20 30
SCALE: 1" = 20'

STATE OF OHIO
MORK J. LACHNIET
E-71746
PROFESSIONAL ENGINEER
8-23-17

Item	Revision Description	Date	Drwn	Chk
1	FINAL DEVELOPMENT PLAN SUBMITTAL	09-13-16	MJL	
2	PERMIT SET	11-15-16	MJL	
3	THRUST BLOCKS	03-01-17	MJL	
4	AS-BUILTS	08-23-17	MJL	
5				
6				
7				
8				
9				

THE FIELDS AT LIBERTY WAY
HOLIDAY INN EXPRESS
COX ROAD & LIBERTY WAY
WEST CHESTER TOWNSHIP
BUTLER COUNTY, OH
SECTION 12, 18, TOWN 3, RANGE 2

UTILITY PLAN

bayer becker
www.bayerbecker.com
6903 Tylersville Road, Suite A
Mason, OH 45040 - 513.336.6600

Drawing: 15M040-000 CD HIX
Drawn by: MJL
Checked By:
Issue Date: 09-13-16
Sheet: C4.0

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Plot time: Aug 23, 2017 - 10:20am
Drawing name: J:\2015\15M040-000\CV\DWG\15M040-000 CD HIX.dwg - Layout Tab: C4-0 Utility