SITE IMPROVEMENT PLANS

RPS PACKAGE DISTRIBUTION CENTER
INTER-OCEAN DRIVE

UNION TOWNSHIP
BUTLER COUNTY, OHIO

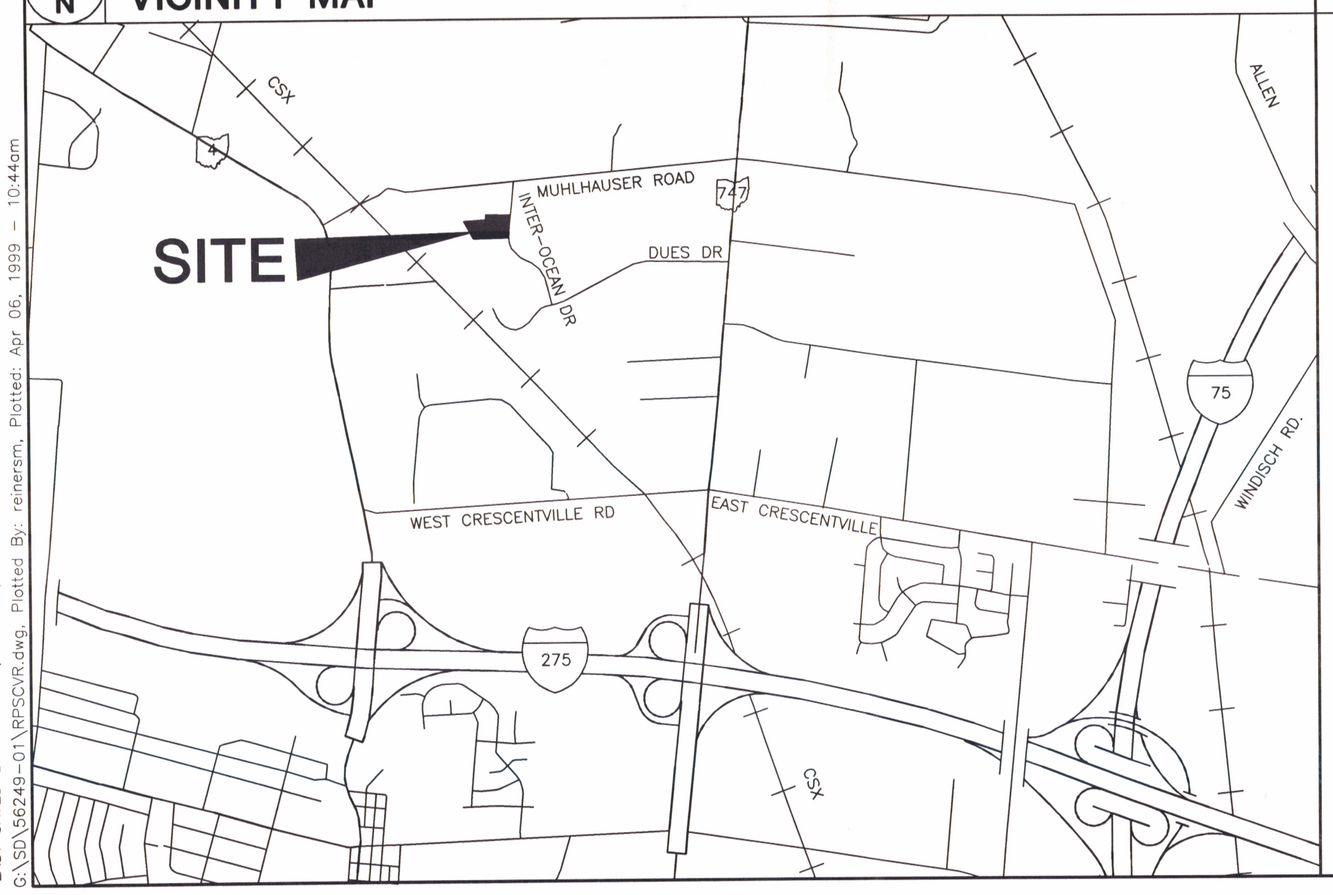
FEBRUARY, 1999

CIVIL

WOOLPERT
WOOLPERT LLP
4141 Rosslyn Drive
Cincinnati, Ohio
45209
513.272.8300
FAX: 513.272.8301

RECEIVED
APR 13 1999
BUTLER COUNTY
ENGINEER'S OFFICE

VICINITY MAP



SHEET INDEX

C1.1 COVER SHEET
C1.2 EXISTING CONDITIONS PLAN
C1.3 SITE PLAN
C1.4 GRADING PLAN
C1.5 UTILITY PLAN
C1.6 EROSION CONTROL NOTES/DETAILS
C1.7 CONSTRUCTION DETAILS

GOVERNING AGENCIES

UNION TOWNSHIP ZONING DEPT.
9119 CINCINNATI-DAYTON ROAD
WEST CHESTER, OHIO 45069
(513) 777-4214
ATTN: JUDI CARTER

BUTLER COUNTY DEPARTMENT
OF ENVIRONMENTAL SERVICES
130 HIGH STREET
HAMILTON, OHIO 45011
(513) 887-3072
ATTN: ALAN LABNOW

BUTLER COUNTY PLANNING DEPT.
130 HIGH STREET
HAMILTON, OHIO 45011
(513) 887-3078
ATTN: MIKE JUENGLING

BUTLER COUNTY ENGINEER
1921 FAIRGROVE AVENUE
HAMILTON, OHIO 45011
(513) 867-5744
ATTN: DAVID BRAND

BUTLER COUNTY BUILDING & ZONING
130 HIGH STREET
HAMILTON, OHIO 45011
(513) 887-3205
ATTN: STEVEN SOLTIS

BUTLER COUNTY SOIL CONSERVATION
1810 PRINCETON ROAD
HAMILTON, OHIO 45011
(513) 867-5013

UTILITY COMPANIES

ELECTRIC
1. CINCINNATI GAS AND ELECTRIC COMPANY
593 TODD-HUNTER ROAD
MONROE, OHIO 45050
ATTN: RON ASHBROCK
PHONE: (513) 287-4663

GAS
2. CINCINNATI GAS AND ELECTRIC COMPANY
593 TODD-HUNTER ROAD
MONROE, OHIO 45050
ATTN: RON ASHBROCK
PHONE: (513) 287-4663

TELEPHONE
3. CINCINNATI BELL, INC.
201 EAST 4TH STREET, RM 103-1125
CINCINNATI, OHIO 45202
ATTN: EMERSON ADKINS
PHONE: (513) 566-8025

CABLE
4. WARNER CABLE
11252 CORNELL PARK DRIVE
CINCINNATI, OHIO 45242-1886
ATTN: DON BONKOWSKI
PHONE: (513) 489-5945

REVISED

No.	DATE	REVISION
6	4/6/99	ADDITIONAL RPS REVISIONS
5	3/19/99	REVISED GRADING AT SW COR. OF PROPERTY
4	3/11/99	REVISIONS PER B.C. ENGR. COMMENTS
	2/18/99	ISSUED FOR PERMIT APPLICATION
3	2/16/99	REVISED GRADING AT SW COR. OF PROP. AND FRONT PARKING LOT
2	1/19/99	RAISED FIN. FLR. TO 725.50, CLIENT REVISIONS
1	1/11/99	RAISED FIN. FLR. TO 725.00, INTERNAL Q.C. REVISIONS
	12/30/98	ISSUED FOR PRICING

STATE OF OHIO
STEVEN J. KERST
64518
REGISTERED
PROFESSIONAL ENGINEER

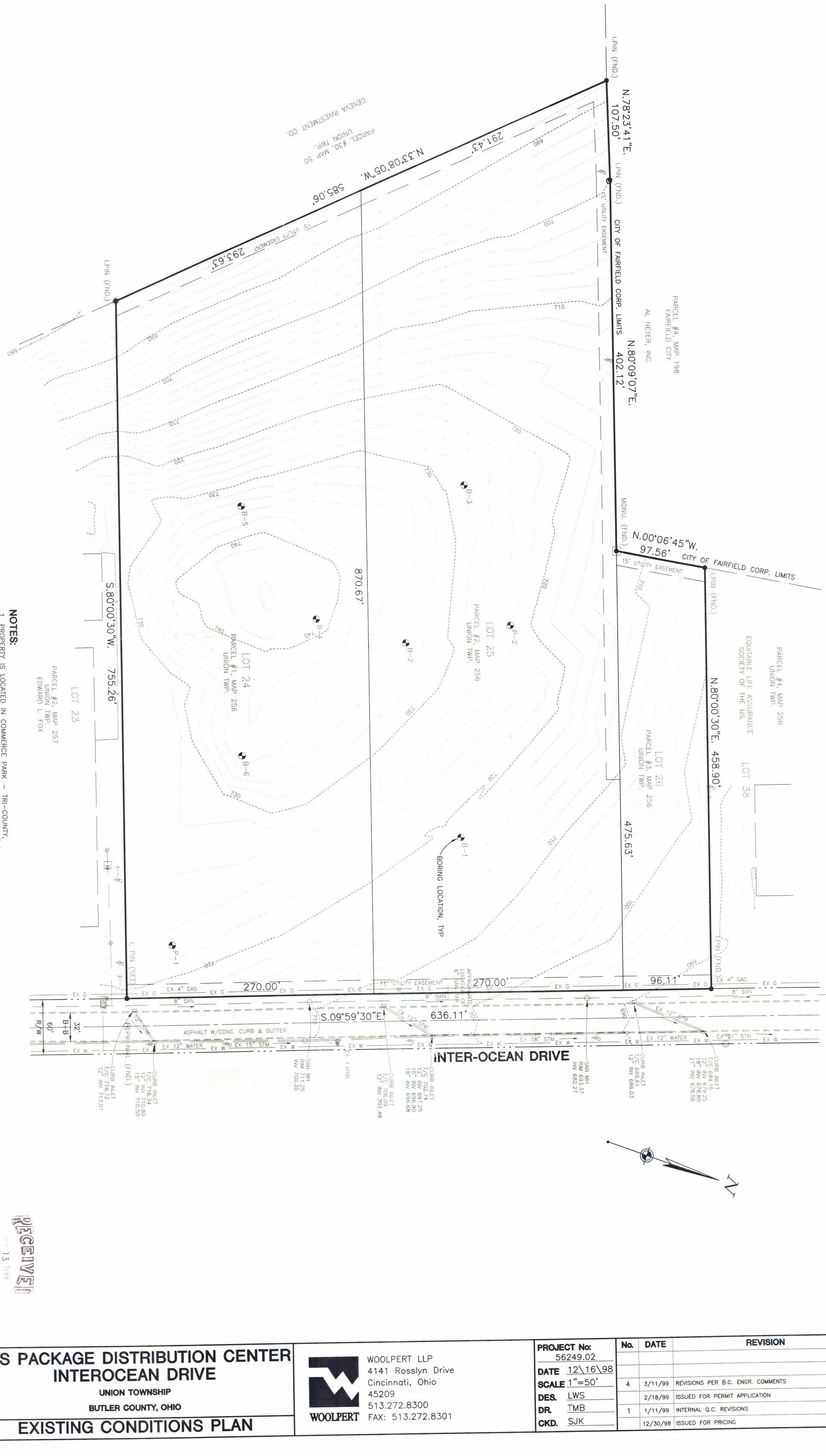
PROJECT No.:
56249.02

C1.1

FILE

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NOTES:

1. PROPERTY IS LOCATED IN COMMERCE PARK – TRI-COUNTY, UNION TOWNSHIP, BUTLER COUNTY, OHIO. AREA = 11.8 AC.±
2. EXISTING ZONING: M-2 GENERAL INDUSTRIAL DISTRICT.
3. TOPOGRAPHY SHOWN WAS DEVELOPED FROM FIELD INFORMATION OBTAINED BY WOOLPERT, LLP, 12-18-98.
4. SANITARY AND STORM SEWER INFORMATION TAKEN FROM AS-BUILT INFORMATION PROVIDED BY THE BUTLER COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES AND ENGINEER'S OFFICE.
5. SOIL BORING LOCATIONS WERE FIELD LOCATED 12-18-98 AND ARE LABELED PER THE REPORT PREPARED BY ALT & WITZIG, DATED NOV. 14, 1998.

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EXISTING CONDITIONS PLAN

SHEET NO. C1.2
FILE

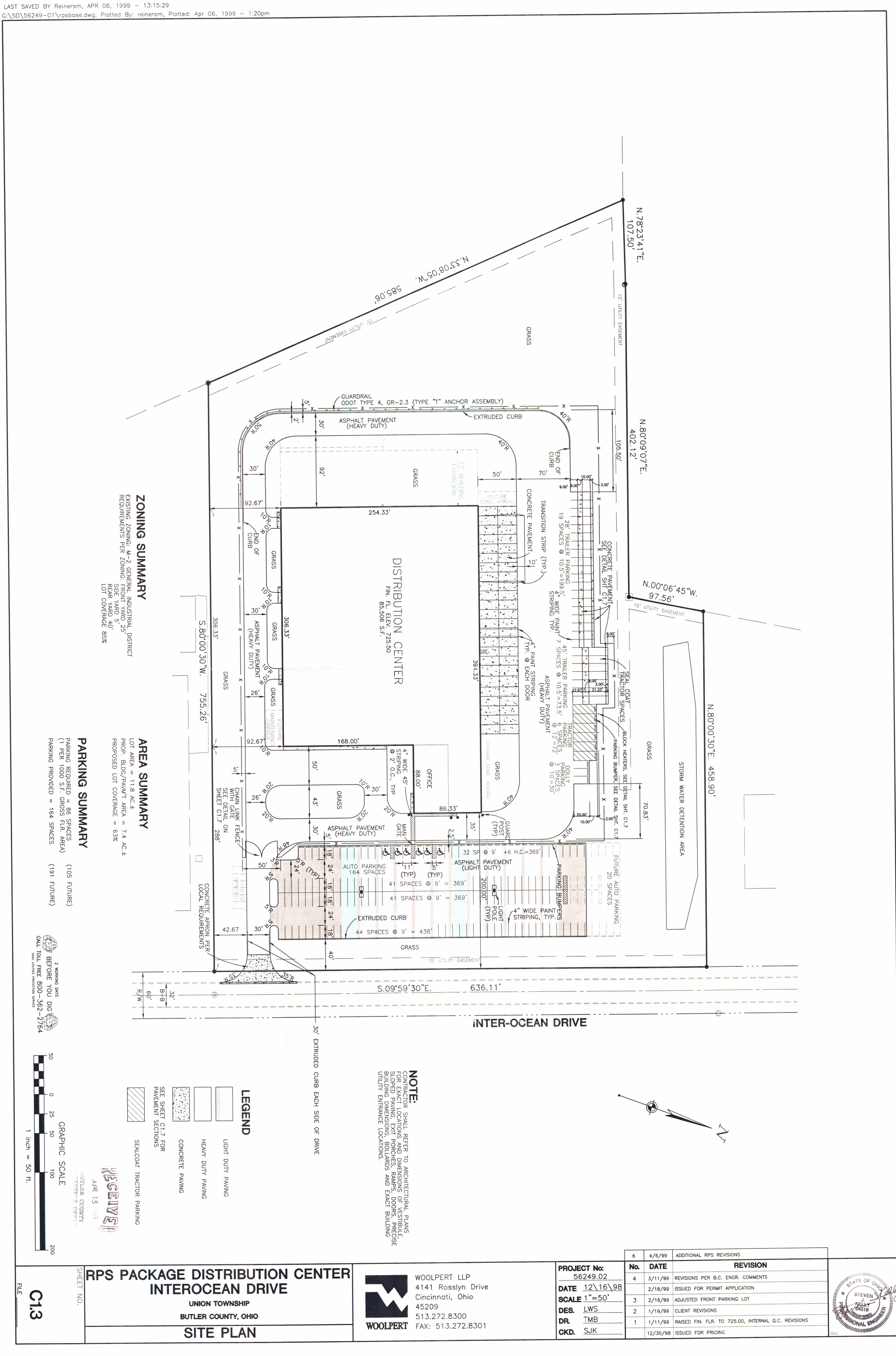
WOOLPERT
WOOLPERT LLP
4141 Rosslyn Drive
Cincinnati, Ohio
45209
513.272.8300
FAX: 513.272.8301

PROJECT No:	56249.02
DATE	12\16\98
SCALE	1"=50'
DES.	LWS
DR.	TMB
CKD.	SJK

No.	DATE	REVISION
4	3/11/99	REVISIONS PER B.C. ENGR. COMMENTS
	2/18/99	ISSUED FOR PERMIT APPLICATION
1	1/11/99	INTERNAL Q.C. REVISIONS
	12/30/98	ISSUED FOR PRICING

STATE OF OHIO
STEVEN J. KELLY
54518
REGISTERED
PROFESSIONAL ENGINEER
SEAL

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ZONING SUMMARY

EXISTING ZONING: M-2 GENERAL INDUSTRIAL DISTRICT
REQUIREMENTS PER ZONING: FRONT YARD 25'
SIDE YARD 5'
REAR YARD 40'
LOT COVERAGE 85%

PARKING SUMMARY

PARKING REQUIRED = 86 SPACES	(105 FUTURE)
(1 PER 1000 S.F. GROSS FLR. AREA)	
PARKING PROVIDED = 164 SPACES	(191 FUTURE)

AREA SUMMARY

LOT AREA = 11.8 AC.±
PROP. BLDG/PAVM'T AREA = 7.4 AC.±
PROPOSED LOT COVERAGE = 63%

NOTE:

CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF VESTIBULE, SLOPED PAVING, EXIT PORCHES, RAMPS, DOORS, PRECISE BUILDING DIMENSIONS, BOLLARDS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.

LEGEND

- LIGHT DUTY PAVING
- HEAVY DUTY PAVING
- CONCRETE PAVING
- SEALCOAT TRACTOR PARKING

SEE SHEET C1.7 FOR PAVEMENT SECTIONS

GRAPHIC SCALE
1 inch = 50 ft.
50 0 25 50 100 200

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BUTLER COUNTY, OHIO
SITE PLAN

SHEET NO. C1.3
FILE

WOOLPERT
WOOLPERT LLP
4141 Rosslyn Drive
Cincinnati, Ohio
45209
513.272.8300
FAX: 513.272.8301

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	12/30/98	ISSUED FOR PRICING

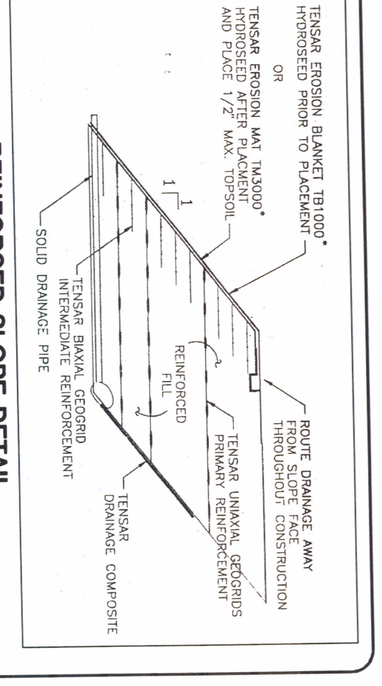
STATE OF OHIO
STEVEN J. KELLY 54518
REGISTERED PROFESSIONAL ENGINEER
SEAL

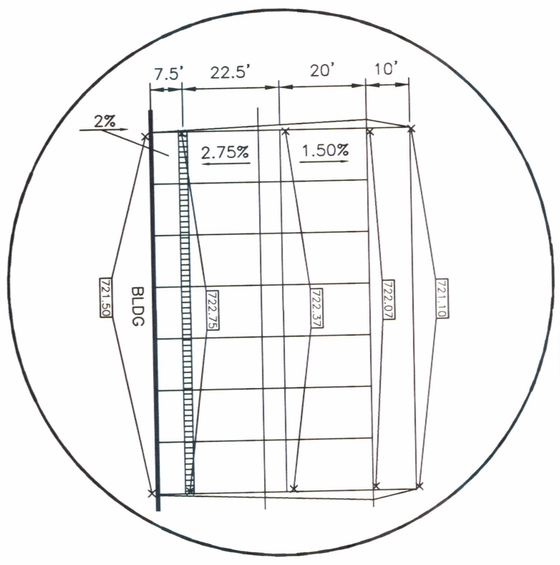
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REINFORCED SLOPE DETAIL

1. CONTRACTOR TO SUBMIT SHOP DRAWINGS AND DESIGN CALCULATIONS, SEALED BY A REGISTERED PROFESSIONAL ENGINEER, BASED ON ACTUAL FIELD AND SOIL CONDITIONS TO THE ENGINEER FOR APPROVAL.
2. EXTERNAL STABILITY, SETTLEMENT, GLOBAL STABILITY, BEARING CAPACITY, AND THEIR EFFECTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. THE PRELIMINARY DESIGN, AS SHOWN ON THE PLANS, IS BASED ON A MATERIAL WITH AN INTERNAL ANGLE OF FRICTION 30 DEGREES AND A MOIST UNIT OF 120 pcf AND THAT THE FOUNDATION IS STABLE.
4. POSITIVE DRAINAGE IS TO BE PROVIDED BY THE CONTRACTOR TO ASSURE THERE IS NO PORE WATER PRESSURE WITHIN THE SLOPE.

PRELIMINARY DESIGN:
MAX. SLOPE HEIGHT = 36'
MAX. PRIMARY REINFORCEMENT SPACING = 4'
MAX. INTERMEDIATE REINFORCEMENT SPACING = 1'
PRIMARY EMBEDMENT LENGTH AT TOP = 23'
PRIMARY EMBEDMENT LENGTH AT BOTTOM = 31'
INTERMEDIATE EMBEDMENT LENGTH = 6' MIN.





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GRAPHIC SCALE
1 inch = 50 ft.
50 0 25 50 100 200

LEGEND

- PROPOSED INLET FILTER
- PROPOSED SILT FENCE

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BUTLER COUNTY, OHIO
GRADING PLAN

SHEET NO. C1.4
FILE

WOOLPERT
WOOLPERT LLP
4141 Rosslyn Drive
Cincinnati, Ohio
45209
513.272.8300
FAX: 513.272.8301

PROJECT No:	56249.02
DATE	12\16\98
SCALE	1"=50'
DES.	LWS
DR.	TMB
CKD.	SJK

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	2/18/99	ISSUED FOR PERMIT APPLICATION
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2	1/19/99	RAISED FIN. FLR. TO 725.50, ADDITIONAL SPOT SHOTS
1	1/11/99	RAISED FIN. FLR. TO 725.00, ADJUSTED PROP CONTOURS
	12/30/98	ISSUED FOR PRICING

STATE OF OHIO
STEVEN J. KELLY
54518
REGISTERED
PROFESSIONAL ENGINEER
SEAL

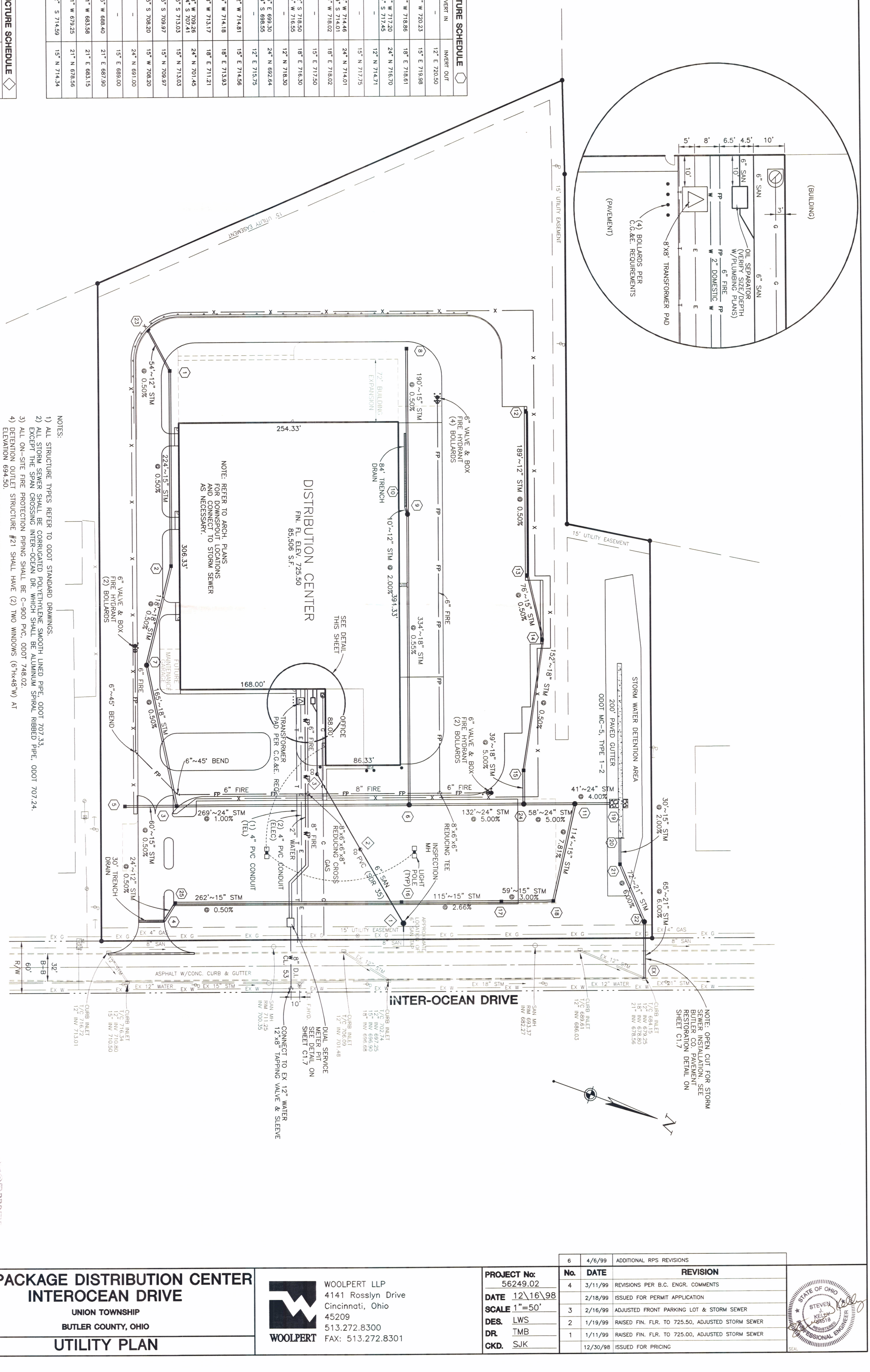
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STORM STRUCTURE SCHEDULE ⬡

STRUCT NUMBER	TYPE RIM/GRATE	INVERT IN	INVERT OUT
23	CB 3A 723.50	–	12" E 720.50
1	CB 2–2B 724.00	12" W 720.23	15" E 719.98
2	CB 2–2B 724.50	15" W 718.86	18" E 718.61
3	CB 2–3 721.80	18" W 717.20 15" S 717.45	24" N 716.70
4	TRENCH 717.50	–	12" N 714.71
5	CB 2–3 721.30	–	15" N 717.75
6	MH–3 721.00	18" W 714.46 24" S 714.01	24" N 714.01
7	MH–3 724.80	18" W 718.02	18" E 718.02
8	CB 2–2B 721.00	–	15" E 717.50
9	MH–3 721.50	12" S 718.50 15" W 716.55	18" E 716.30
10	TRENCH 721.30	–	12" N 718.30
11	MH–3 708.00	15" E 699.30 24" S 698.55	24" N 692.64
12	CB 3A 719.25	–	12" E 715.75
13	CB 3A 719.25	12" W 714.81	15" E 714.56
14	CB 3A 718.25	15" W 714.18	18" E 713.93
15	CB 2–3 717.50	18" W 713.17	18" E 711.21
24	MH–3 717.00	18" W 709.26 24" S 707.41	24" N 701.45
16	CB 2–3 719.70	15" S 713.03	15" N 713.03
17	CB 2–3 716.50	15" S 709.97	15" N 709.97
18	CB 2–3 714.25	15" S 708.20	15" W 708.20
19	HW–1	–	24" N 691.00
20	HW–1	–	15" E 689.00
21	CB 2–3 695.50	15" W 688.40	21" E 687.90
22	MH–3 690.00	21" W 683.58	21" E 683.15
EX	CB 684.15	21" W 679.25	21" N 678.56
25	CB 2–2B 719.80	12" S 714.59	15" N 714.34

SANITARY STRUCTURE SCHEDULE ◇

STRUCT NUMBER	TYPE RIM/GRATE	INVERT IN	INVERT OUT
1	MH 709.00	6" W 702.00	6" E 695± (FIELD VERIFY)
2	CO 721.80	6" W 708.50	6" E 708.50
3	CO 725.00	6" W 715.00	6" E 715.00



NOTES:

1) ALL STRUCTURE TYPES REFER TO ODOT STANDARD DRAWINGS.
2) ALL STORM SEWER SHALL BE CORRUGATED POLYETHYLENE SMOOTH LINED PIPE, ODOT 707.33, EXCEPT THE SPAN CROSSING INTER-OCEAN DR. WHICH SHALL BE ALUMINUM SPIRAL RIBBED PIPE, ODOT 707.24.
3) ALL ON-SITE FIRE PROTECTION PIPING SHALL BE C-900 PVC, ODOT 707.33.
4) DETENTION OUTLET STRUCTURE #21 SHALL HAVE (2) TWO WINDOWS (6"Hx48"W) AT ELEVATION 694.50.
5) SEE SHEET C1.6 FOR TRENCH DRAIN DETAIL.
6) ALL CATCH BASINS AND MANHOLES WITH A DEPTH GREATER THAN FOUR (4') FEET SHALL BE PROVIDED WITH STEPS.
7) THERE SHALL BE A MINIMUM TEN (10') FEET HORIZONTAL AND EIGHTEEN (18") INCHES VERTICAL SEPARATION BETWEEN WATER MAIN AND SANITARY AND/OR STORM SEWER.
8) ALL TRENCHES WITHIN THE RIGHT-OF-WAY AND UTILITY EASEMENTS SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH ITEMS 203 AND 603 IN THE STATE SPECIFICATIONS.
9) BUTLER COUNTY WILL NOT BE RESPONSIBLE FOR ANY PAVEMENT OR STORM SEWER REPAIRS RESULTING FROM WATER MAIN AND SANITARY SEWER REPAIRS.
10) BUTLER COUNTY ALSO WILL NOT BE RESPONSIBLE FOR ADJUSTING MANHOLES, VALVES, FIRE HYDRANTS, METER PITS, ETC. AS A RESULT OF ANY GRADE CHANGES.

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GRAPHIC SCALE
1 inch = 50 ft.
50 0 25 50 100 200

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STATE OF OHIO STEVEN J. KELBY 64518 REGISTERED PROFESSIONAL ENGINEER
SEAL

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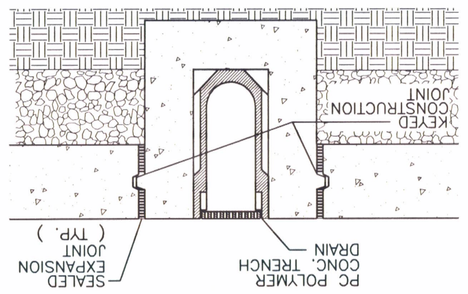
WOOLPERT LLP
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513.272.8300
FAX: 513.272.8301
WOOLPERT

PROJECT No: 56249.02
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SCALE 1"=50'
DES. LWS
DR. TMB
CKD. SJK

SHEET NO. **C1.5**
FILE

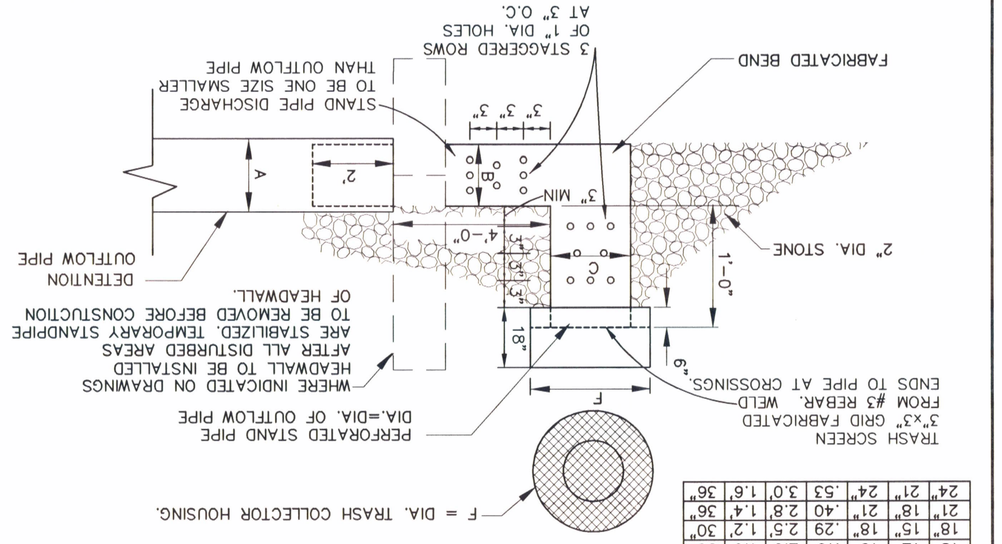
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TRENCH DRAIN



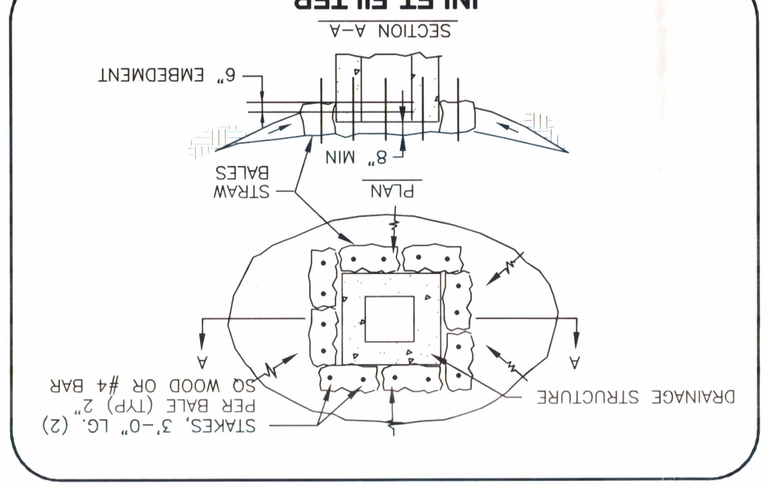
TEMPORARY STANDPIPE DETAIL

NTS



DIMENSIONS					
PIPE DIA	CONC. BASE				
A	B	C	CY	D	E	F
12"	10"	12"	1'-3"	1'-9"	1'-0"	24"
15"	12"	15"	1'-9"	2'-3"	1'-0"	30"
18"	15"	18"	2'-9"	2'-5"	1'-2"	30"
21"	18"	21"	4'-0"	2'-8"	1'-4"	36"
24"	21"	24"	5'-3"	3'-0"	1'-6"	36"

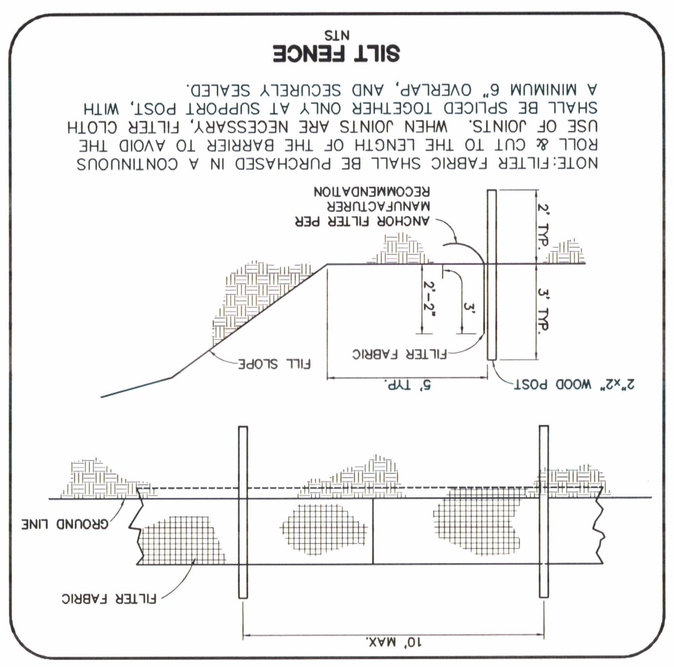
INLET FILTER



SILT FENCE

NTS

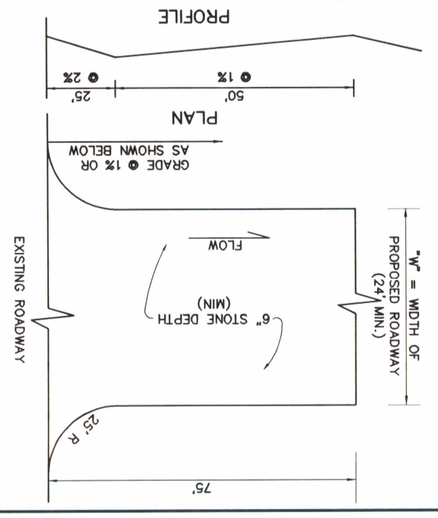
NOTE: FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL & CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT SUPPORT POST, WITH A MINIMUM 6" OVERLAP, AND SECURELY SEALED.



TEMPORARY CONSTRUCTION ENTRANCE DETAIL

NTS

NOTE:
1. STONE SIZE SHALL CONFORM TO ASTM D48 SIZE #1 (1 1/2" TO 3 1/2" DIA.)
2. PERIODIC 2" STONE TOP DRESSING & WASHING AS REQUIRED BY COUNTY/CITY.
3. GEOTEXTILE SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL HAVE A GRAB TENSILE STRENGTH OF AT LEAST 200 LB. AND A MULLEN BURST STRENGTH OF AT LEAST 190 LB.



EROSION CONTROL REQUIREMENTS FOR COMPLIANCE WITH OEPA'S GENERAL PERMIT FOR CONSTRUCTION

1. THE EROSION CONTROL MEASURES INCLUDED IN THE STORM WATER POLLUTION PREVENTION PLAN (GRADING/EROSION CONTROL PLAN AND EROSION CONTROL DETAILS) SHALL BE INSTALLED PRIOR TO INITIAL LAND DISTURBANCE ACTIVITIES OR AS SOON AS PRACTICAL. PROJECT SITE BY INSTALLING AND MAINTAINING SILT FENCE, STRAW SEDIMENT SHALL BE PREVENTED FROM DISCHARGING FROM THE BALES, SEDIMENT BASINS, ETC. AS SHOWN ON THIS PLAN. IF SHOWN ON THESE PLANS, ENERGY-DISSIPATION DEVICES OR EROSION CONTROL AT THE OUTFALL OF THE STORM SEWER SYSTEM SHALL BE INSTALLED PRACTICES SHALL BE USED TO CONTROL EROSION FROM ALL SITES AT THE TIME OF THE CONSTRUCTION OF THE OUTFALL. STRUCTURAL REMAINING DISTURBED FOR MORE THAN 14 DAYS.

2. THE CONTRACTOR SHALL CONTROL WASTES, GARBAGE, DEBRIS, WASTEWATER, AND OTHER SUBSTANCES ON THE SITE IN SUCH A WAY THAT THEY SHALL NOT BE TRANSPORTED FROM THE SITE BY THE ACTION OF WINDS; STORM WATER RUNOFF, OR OTHER FORCES. PROPER DISPOSAL OR MANAGEMENT OF ALL WASTES AND UNUSED BUILDING MATERIAL, APPROPRIATE TO THE NATURE OF THE WASTE OR MATERIAL IS REQUIRED. COMPLIANCE IS REQUIRED WITH ALL STATE OR LOCAL REGULATIONS REGARDING WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC SYSTEMS.

3. PUBLIC OR PRIVATE ROADWAYS SHALL BE CLEARED OF ACCUMULATED SEDIMENT. BULK CLEARING OF ACCUMULATED SEDIMENT SHALL NOT INCLUDE FLUSHING THE AREA WITH WATER. CLEARED SEDIMENT SHALL BE RETURNED TO THE POINT OF LIKELY ORIGIN OR OTHER SUITABLE LOCATION.

4. ALL ON-SITE STORM DRAIN INLETS SHALL BE PROTECTED AGAINST SEDIMENTATION WITH STRAW BALES, FILTER FABRIC, OR EQUIVALENT BARRIERS AS SHOWN ON THESE PLANS.

5. EXCEPT AS PREVENTED BY INCLEMENT WEATHER CONDITIONS, ALL DISTURBED AREAS TO REMAIN INACTIVE FOR MORE THAN 45 DAYS SHALL BE STABILIZED BY SEEDING, SODDING, MULCHING, COVERING OR BY OTHER EQUIVALENT EROSION CONTROL MEASURES WITHIN SEVEN (7) DAYS. PERMANENT SOIL STABILIZATION SHALL BE PROVIDED WITHIN 7 DAYS AFTER FINAL GRADE IS ESTABLISHED.

6. THIS EROSION CONTROL PLAN SHALL BE IMPLEMENTED ON ALL DISTURBED AREAS WITHIN THE CONSTRUCTION SITE. ALL MEASURES INVOLVING EROSION CONTROL PRACTICES SHALL BE INSTALLED UNDER THE GUIDANCE OF QUALIFIED PERSONEL EXPERIENCED IN EROSION CONTROL, AND FOLLOWING THE PLANS AND SPECIFICATIONS INCLUDED HEREIN.

7. DURING THE PERIOD OF CONSTRUCTION ACTIVITY, ALL SEDIMENT BASINS AND OTHER EROSION CONTROL MEASURES SHALL BE MAINTAINED BY THE CONTRACTOR. AT COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE THE TRANSFER OF MAINTENANCE RESPONSIBILITIES, IF REQUIRED, WITH THE OWNER. MAINTENANCE SHALL BE IN ACCORDANCE WITH CHAPTER 7 OF THE SOIL CONSERVATION SERVICE MANUAL "WATER MANAGEMENT AND SEDIMENT CONTROL FOR URBANIZING AREAS."

8. ALL EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE SOIL CONSERVATION SERVICE MANUAL "WATER MANAGEMENT AND SEDIMENT CONTROL FOR URBANIZING AREAS."

9. EXISTING VEGETATION SHALL BE PROTECTED AS MUCH AS PRACTICAL.

10. POST-CONSTRUCTION STORM WATER MANAGEMENT. EACH LOT SHALL HAVE ADEQUATE VEGETATION AND LANDSCAPING TO FILTER POLLUTANTS AS MUCH AS PRACTICAL. LOCAL LAWS REGARDING THE DISCHARGING OF OIL AND OTHER POLLUTANTS INTO STORM SEWERS OR DRAINAGEWAYS SHALL APPLY.

11. ALL EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED IN ACCORDANCE WITH THE CONDITIONS OF APPLICABLE NPDES PERMITS.

12. ALL TEMPORARY EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE REMOVED AND DISPOSED OF WITHIN THIRTY DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY PRACTICES ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION.

13. THIS EROSION CONTROL PLAN MUST BE RETAINED ON-SITE AT ALL TIMES DURING THE PERIOD OF CONSTRUCTION.

14. CONSTRUCTION ENTRANCE SHALL BE 50'x12' OF 6" ODOT ITEM 703, No. 1 AGGREGATE. ALL CONSTRUCTION TRAFFIC SHALL USE THIS ENTRANCE.

SOIL EROSION / SEDIMENTATION CONTROL
OPERATION TIME SCHEDULE

CONSTRUCTION SEQUENCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
STRIP & STOCKPILE TOPSOIL												
ROUGH GRADE/SEDIMENT CONTROL												
STORM FACILITIES												
TEMP. CONTROL MEASURES												
TEMP. CONSTRUCTION ROADS												
FOUNDATION/BLDG. CONSTRUCTION												
PERM. CONTROL MEASURES												
SITE CONSTRUCTION												
FINISH GRADING												
LANDSCAPING												

RECEIVED
OUTLOT COUNTY
ENGINEER'S OFFICE

WOOLPERT LLP
4141 Rosslyn Drive
Cincinnati, Ohio
45209
513.272.8300
FAX: 513.272.8301
WOOLPERT

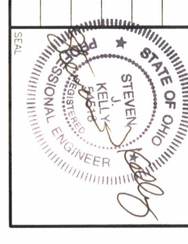
RPS PACKAGE DISTRIBUTION CENTER
INTER-OCEAN DRIVE
UNION TOWNSHIP
BUTLER COUNTY, OHIO

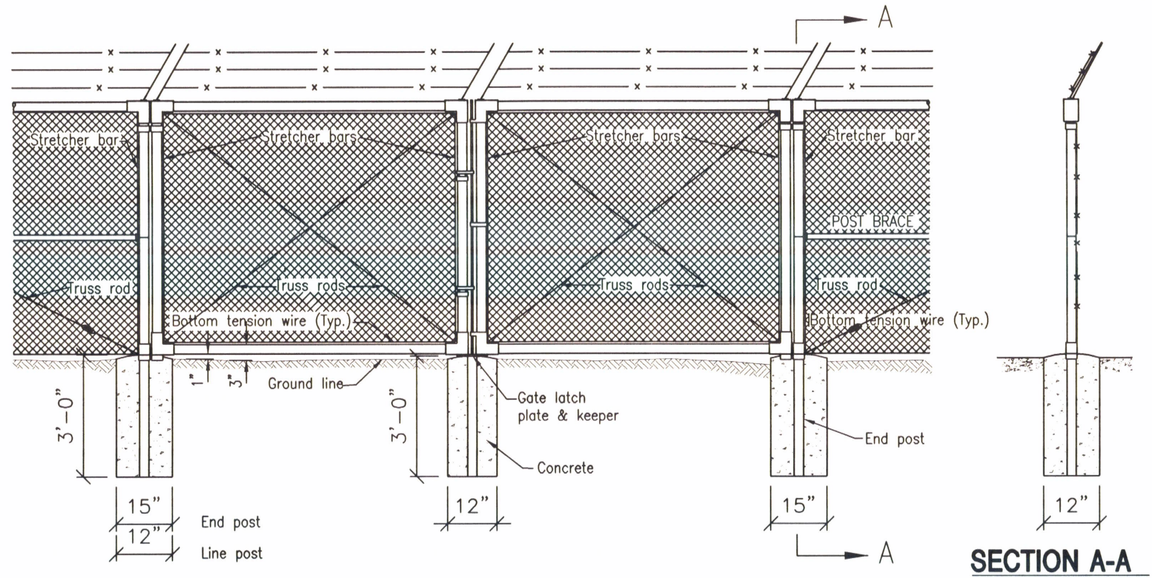
EROSION CONTROL NOTES/DETAILS

SHEET NO. C1.6 FILE

PROJECT No: 56249.01
DATE 12/29/98
SCALE AS SHOWN
DES. LWS
DR. MGR
CKD. SJK

No.	DATE	REVISION
2	2/18/99	ISSUED FOR PERMIT APPLICATION
1	1/19/99	CLIENT REVISIONS, CHANGED TRENCH DRAIN DETAIL
	1/11/99	INTERNAL Q.C. REVISIONS
	12/30/98	ISSUED FOR PRICING

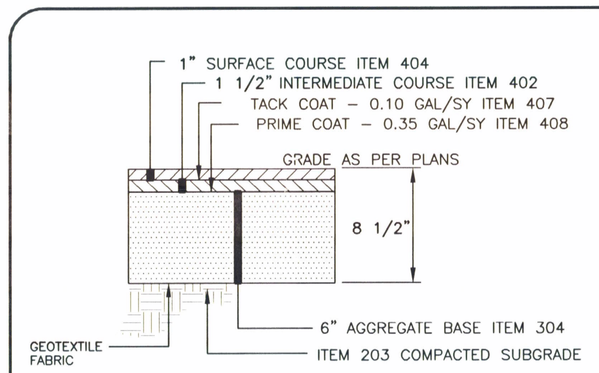




CHAIN LINK FENCE TO BE AS FOLLOWS:

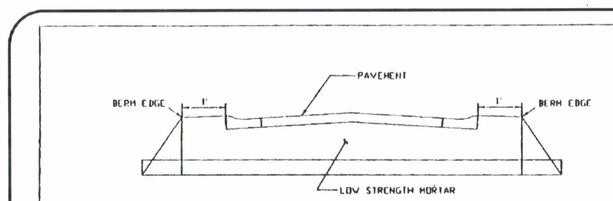
A) EIGHT FOOT HIGH, NO. 9 FABRIC, 2" DIAMOND MESH– HOT DIP GALVANIZED
B) THREE STRANDS BARBED WIRE ON ANGLE BRACKETS– BARBED WIRE TO BE 4 POINT, 2 STRAND – 12 1/2 GA. GALVANIZED.
C) LINE POSTS TO BE 2 1/2" O.D., 3.65 LB/FT., GALVANIZED.
D) CORNER, PULL AND END POSTS TO BE 3" O.D.. 4 LB/FT., GALVANIZED.
E) GATE POSTS TO BE 4" O.D. 5.79 LF/FT. – GALVANIZED.
F) TOP RAIL TO BE 1 5/8" O.D., 2.27 LB/FT. – GALVANIZED.
G) POSTS TO BE 10' ON CENTER MAX. SET IN 36" DEEP CONCRETE BASES.
H) GATES TO AS SHOWN ON SITE PLAN AND FABRICATED FROM 2" OR GREATER TUBES, 2.72 LB/FT. – GALVANIZED – INCLUDING PIVOT HINGES, CATCHES, STOPS, CENTER VESTS AND LOCKING FACILITIES.
I) BOTTOM TENSION WIRE REQUIRED ON FENCE.

FENCE AND GATE DETAIL



DETAIL

TYPICAL ASPHALT PAVEMENT SECTIONS
(PER RPS PROTOTYPE DRAWINGS)



ITEM SPECIAL - LOW STRENGTH MORTAR BACKFILL MATERIAL

DESCRIPTION: THIS WORK SHALL CONSIST OF THE PLACEMENT OF A FLOWABLE MIXTURE OF PORTLAND CEMENT, FLY ASH AND SAND FOR BACK-FILLING CONDUIT OR AT OTHER LOCATIONS AS SHOWN ON THE PLANS OR AS SPECIFIED. THE WORK SHALL BE IN ACCORDANCE WITH ODOT ITEMS 603 AND 499 UNLESS OTHERWISE SPECIFIED HEREIN

MATERIALS: MATERIALS SHALL BE:
A CEMENT ---------- 701.01 OR 701.04
B FLY ASH SHALL MEET ASTM C-618
C FINE AGGREGATE SHALL BE NEUTRAL SAND OR SAND MANUFACTURED FROM STONE, GRAVEL OR AIR-COOLED SLAG. THE GRADATION OF THE SAND SHALL MEET THE REQUIREMENTS OF 703.05. THE SAND SHALL BE FINE ENOUGH TO STAY IN SUSPENSION IN THE MIXTURE TO THE EXTENT REQUIRED FOR PROPER FLOW. THE ENGINEER RESERVES THE RIGHT TO REJECT THE SAND IF THE MATERIAL IS TOO COARSE FOR PROPER FLOW.
D WATER USED FOR MORTAR BACKFILL SHALL BE FREE FROM OIL, ACID, STRONG ALKALIDES OR VEGETABLE MATTER
E SLUMPS MEASURED IN THE ORDINARY WAY WILL BE 8" OR HIGHER FOR PROPER PLACEMENT OF THE FLOWABLE MATERIAL.

MORTAR MIX PROPORTIONING: THE INITIAL TRIAL MIXTURE SHALL CONSIST OF THE FOLLOWING QUANTITIES OF MATERIALS PER CUBIC YARD:

CLASS LSM - 50	
CEMENT	50 LBS
FLY ASH	250 LBS
SAND	2910 LBS
WATER (TARGET)	500 LBS

ADJUSTMENTS OF THE PROPORTIONS MAY BE MADE BY THE ENGINEER PROVIDING THE TOTAL ABSOLUTE VOLUME OF THE MATERIALS IS MAINTAINED. THIS ITEM WILL BE INCLUDED IN THE STANDARD 603 INSULATION. THIS WILL NOT BE AN ADDITIONAL PAY ITEM, BUT REPLACEMENT FOR THE NORMAL BACKFILL.

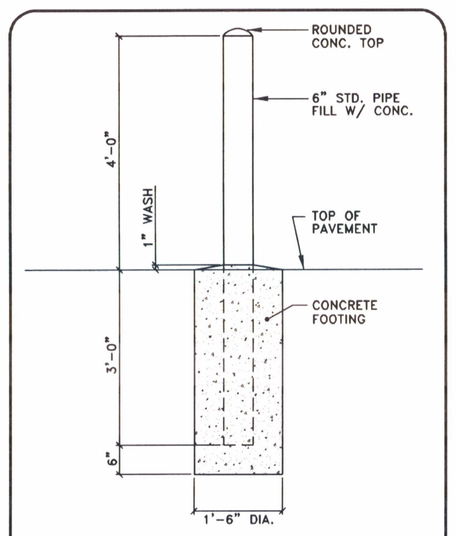
① EXISTING PAVEMENT
② 8" ITEM 301 BITUMINOUS AGGREGATE BASE
12'-4" CRUSHED
③ 2" ITEM 404 ASPHALT CONCRETE SURFACE COURSE
④ ITEM 407 TACK COAT APPLIED AT 1 GAL/SY
⑤ LOW STRENGTH MORTAR BACKFILL MATERIAL, CLASS LSM 50
⑥ MIN. 6" GRANULAR PIPE BEDDING
⑦ OPTION – GRANULAR BEDDING EXTENDED 12" ABOVE PIPE FOR THE FULL WIDTH OF THE TRENCH. ALSO SEE ITEM SPECIAL.

REVISIONS	DATE	C-27

PAVEMENT RESTORATION
ROADWAY (TYP)

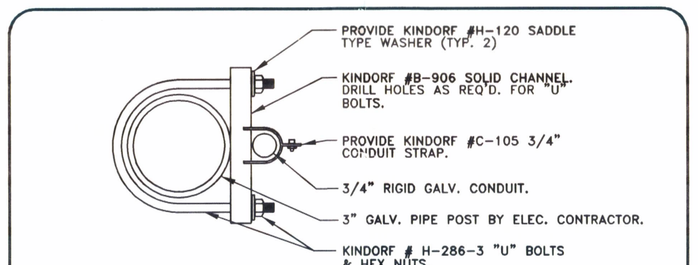
CHK. BY: G.J.H. EFFECTIVE DATE: 1-1-96

BUTLER COUNTY ENGINEERS OFFICE AND OPERATIONS FACILITY



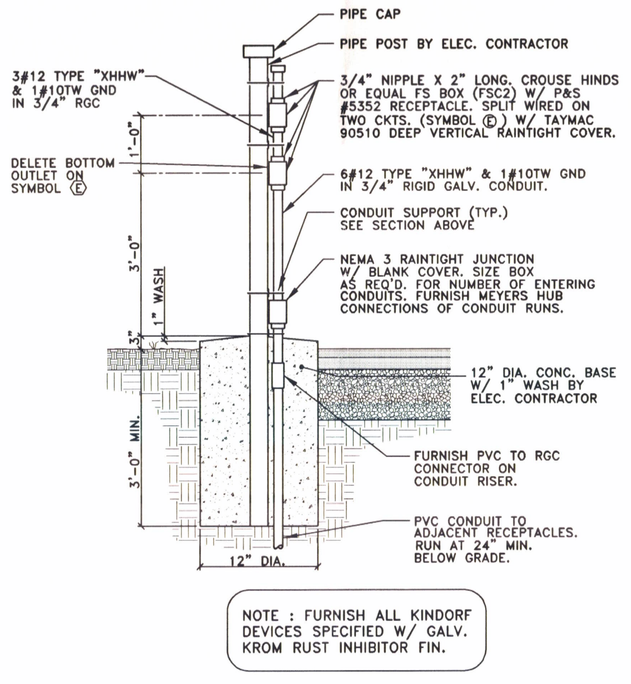
EXTERIOR GUARD POST

NTS



SECTION THROUGH PIPE

NTS

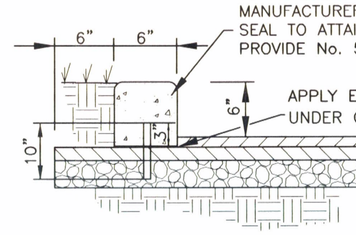


NOTE : FURNISH ALL KINDORF DEVICES SPECIFIED W/ GALV. KROM RUST INHIBITOR FIN.

BLOCK HEATER OUTLET DETAIL

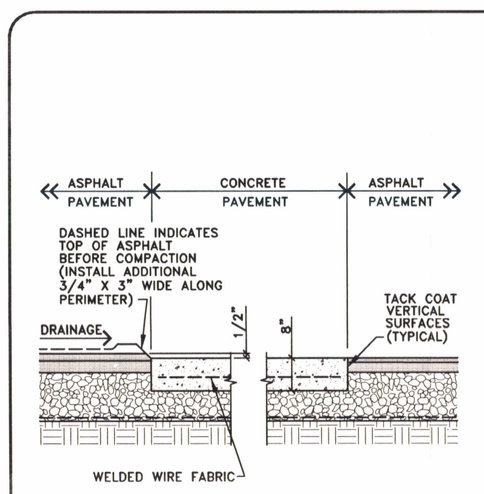
NTS

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TIPLER COUNTY



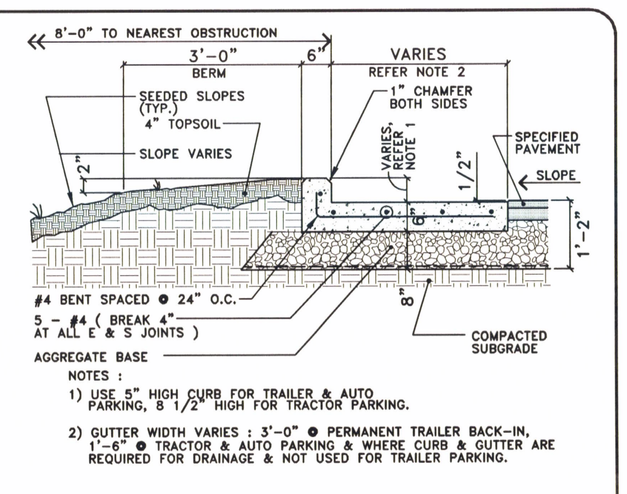
MACHINE EXTRUDED CONCRETE CURB EQUAL TO "PERMA–CURB AS MANUFACTURED BY PERMACURBS INTERNATIONAL. PROVIDE CONTROL JOINTS @ 10'–0" ON CENTER. CURBS TO BE BONDED TO PAVEMENT WITH EPOXY RESIN PER MANUFACTURERS RECOMMENDATIONS. CURE AND SEAL TO ATTAIN MAXIMUM MOISTURE RETENTION. PROVIDE No. 5 REBAR @ 10' ON CENTER.

EXTRUDED CONCRETE CURB DETAIL



ASPHALT AT CONC. SECTION

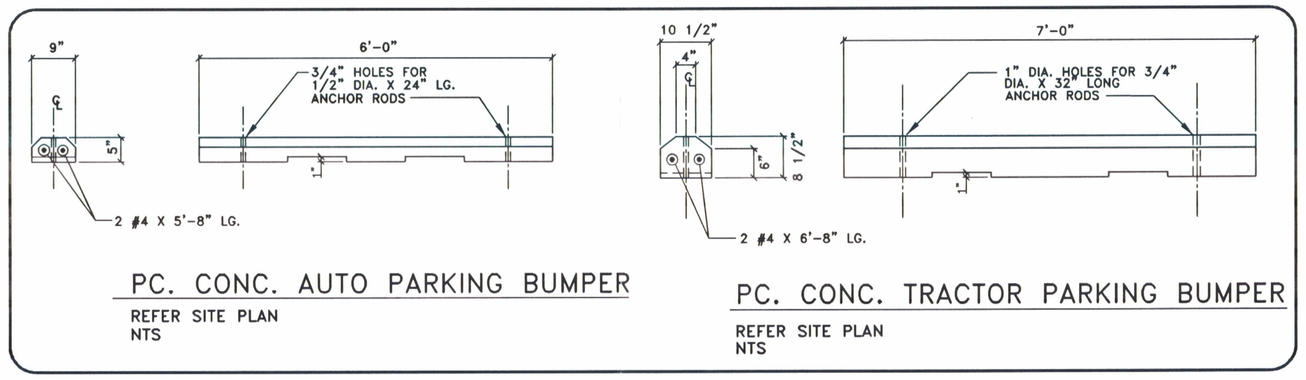
NTS



NOTES :
1) USE 5" HIGH CURB FOR TRAILER & AUTO PARKING, 8 1/2" HIGH FOR TRACTOR PARKING.
2) GUTTER WIDTH VARIES : 3'–0" @ PERMANENT TRAILER BACK–IN, 1'–6" @ TRACTOR & AUTO PARKING & WHERE CURB & GUTTER ARE REQUIRED FOR DRAINAGE & NOT USED FOR TRAILER PARKING.

CONCRETE CURB & GUTTER

NTS

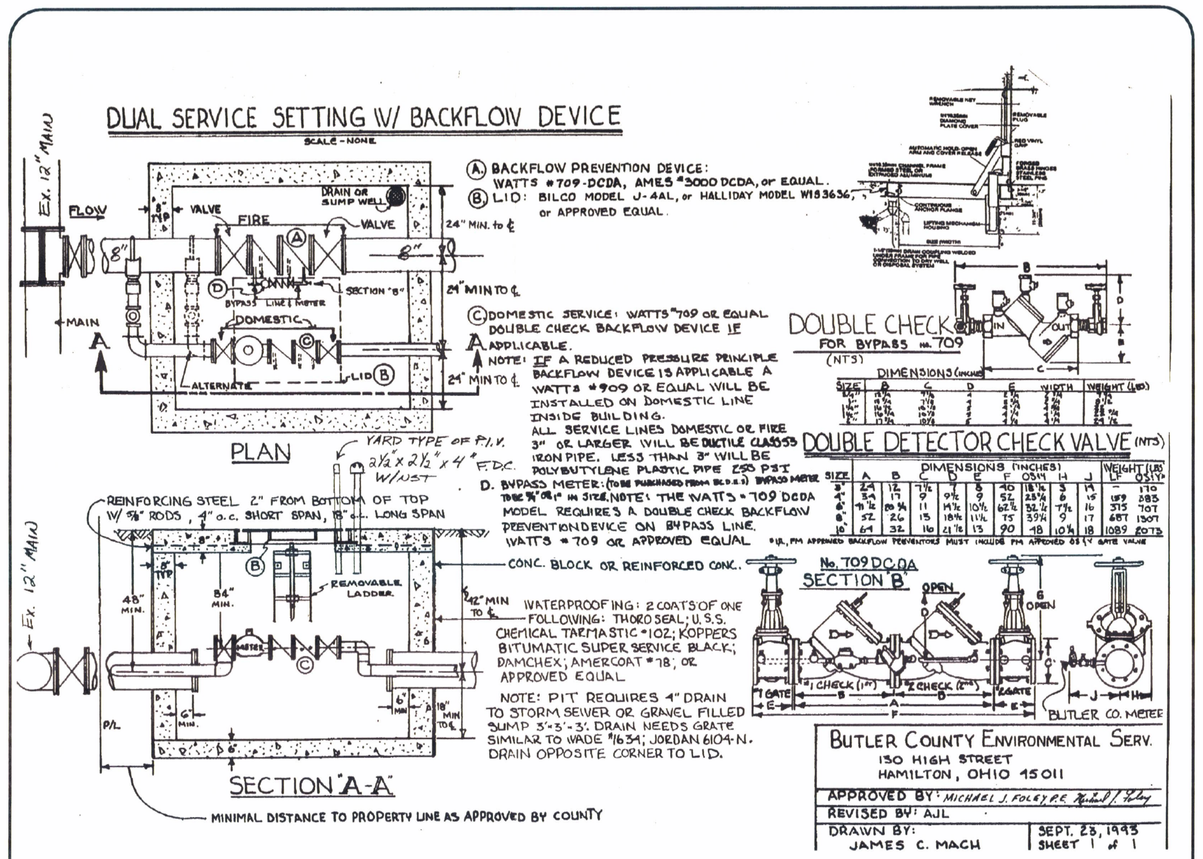


PC. CONC. AUTO PARKING BUMPER

REFER SITE PLAN
NTS

PC. CONC. TRACTOR PARKING BUMPER

REFER SITE PLAN
NTS



WATER METER PIT DETAIL

NOTE: DOMESTIC WATER LINE AND METER SIZE TO BE VERIFIED BY BUILDING MECHANICAL ENGR./CONTRACTOR

No.	DATE	REVISION
	2/18/99	ISSUED FOR PERMIT APPLICATION
3	2/16/99	REVISED PAVEMENT SECTIONS TO RPS PROTOTYPE
2	1/19/99	CLIENT REVISIONS, ADDED FENCE DETAIL
1	1/11/99	INTERNAL O.C. REVISIONS
	12/30/98	ISSUED FOR PRICING

PROJECT No: 56249.01
DATE 12/29/98
SCALE AS SHOWN
DES. LWS
DR. MGR
CKD. SJK

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CONSTRUCTION DETAILS

SHEET NO.
C1.7
FILE

LAST SAVED BY Reinersm, APR 06, 1999 – 13:21:49
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