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Owner Name LORAIN COUNTY COMMUNITY COLLEGE	Owner Address 1005 N ABBE RD	Owner City ELYRIA	Owner State OH	Owner Zip 44036	Mail to Name L C C COLLEGE BOARD OF TRUSTEES	Mail to Address 1005 N ABBE RD	Mail to City	Mail to State OH	Mail to Zip 44035
LACKO THOMAS A & DEANNA L	6228 1/2 BUFFMAN RD	SEVILLE	OH	44036	LACKO THOMAS A & DEANNA L	6228 1/2 BUFFHAM RD	SEVILLE	OH	44033
LADD TIMOTHY C & ANIELA J	13240 INDIAN HOLLOW RD	GRAFTON	OH	44273	LADD TIMOTHY C & ANIELA J	13240 INDIAN HOLLOW RD.	GRAFTON	OH	44044
B F GOODRICH EMPLOYEES CREDIT UNION	586 MOORE RD	AVON LAKE	OH	44012	LAKESHORE COMMUNITY CREDIT UNION	586 MOORE RD	AVON LAKE	OH	44012
LAMBERT DONALD W & SAUNDRA L	13143 INDIAN HOLLOW RD	GRAFTON	OH	44044	LAMBERT DONALD W & SAUNDRA L	13143 INDIAN HOLLOW RD	GRAFTON	OH	44044
MOTTA DAVID E & ALAN C TRUSTEES	39738 BANKS RD	GRAFTON	ОН	44044	LAMM CAROL	4620 BARCLAY LN	TALLAHASSEE	FL	32309
LAND TRACT INVESTMENTS LLC	P O BOX 955	ELYRIA	ОН	44036	LAND TRACT INVESTMENTS LLC	P O BOX 955	ELYRIA	ОН	44036
LAUBENTHAL RICHARD C & CHRISTINE	38594 LIBERTY LN	GRAFTON	ОН	44044	LAUBENTHAL RICHARD C	38475 CHESTNUT RIDGE RD	ELYRIA	ОН	44035
LAUER RICK & CAROLE	496 STILL WATER BLVD	ELYRIA	ОН	44035	LAUER RICK & CAROLE	496 STILL WATER BLVD	ELYRIA	ОН	44035
LAYNE ALICE B	12679 INDIAN HOLLOW RD	GRAFTON	ОН	44044	LAYNE ALICE B	12679 INDIAN HOLLOW RD	GRAFTON	OH	44044
LEIDICH STEVEN D	6061 CASE RD	N RIDGEVILLE	OH	44039	LEIDICH STEVEN D	6061 CASE RD	N RIDGEVILLE	ОН	44039
LEONOWICH JOHN D TRUSTEE	39325 SUGAR RIDGE RD	N RIDGEVILLE	OH	44039	LEONOWICH JOHN D TRUSTEE	41520 SCHADEN RD	ELYRIA	OH	44035
LESESKY DALE S & DIANNE L	608 WESTIN WAY	ELYRIA	OH	44035	LESESKY DALE S & DIANNE L	608 WESTIN WAY	ELYRIA	ОН	44035
LILLEY JON P TRUSTEE & LILLEY WILMA C TRUSTEE	32779 DEERSPRING CT	N RIDGEVILLE	OH	44039	LILLEY JON P TRUSTEE	8616 GATEWOOD DR	NORTH RIDGEVILLE	OH	44039
LLOYD DEVELOPMENT INC	1982 BUCKINGHAM DR	AVON	ОН	44011	LLOYD HARRY R & DOROTHY MAE	1982 BUCKINGHAM DR	AVON	OH	44011
LOCKMILLER DOROTHEA B	11909 EASTWOOD DR	GRAFTON	OH	44044	LOCKMILLER DOROTHEA B	11909 EASTWOOD DR	GRAFTON	OH	44044
INN ON THE RIVERS EDGE LP	39050 COLORADO AVE	AVON	OH	44011	LODGING INDUSTRY INC RUTA MICHELE & RAFFAELE	910 LORAIN BL #N	ELYRIA	ОН	44035
LOFTIN JACK C & ANNA L	39770 BANKS RD	GRAFTON	ОН	44044	LOFTIN JACK C & ANNA L	39770 BANKS RD	GRAFTON	ОН	44044
LOGOS DEVELOPMENT CORP	121 KEEP CT	ELYRIA	OH	44035	LOGOS CORPORATION	150 FREEDOM CT	ELYRIA	OH	44035
LONGBRAKE RANDOLPH T & ELIZABETH LORAIN COUNTY COMMUNITY COLLEGE	3150 REPUBLIC BL N #3	TOLEDO FLYRIA	OH OH	43615 44036	LONGBRAKE RANDOLPH T & ELIZABETH LORAIN CNTY COMM COLLEGE BD OF TRS	3150 REPUBLIC BL N #3 1005 N ABBE RD	TOLEDO	OH OH	43615 44035
LORAIN COUNTY COMMUNITY COLLEGE LORAIN COMMUNITY COLLEGE	1005 N ABBE RD 6810 CASE RD	NORTH RIDGEVILLE	OH	44036 44039	LORAIN COMMUNITY COLLEGE BD OF TRS	1005 N ABBE RD 1005 ABBE RD N	ELYRIA ELYRIA	OH	44035 44035
LORAIN COMMUNITY COLLEGE LORAIN COUNTY BOARD OF COMMISSIONERS	226 MIDDLE AVE	ELYRIA	OH	44039	LORAIN COMMUNITY COLLEGE LORAIN COUNTY	226 MIDDLE AVE	ELYRIA	OH	44035
LORAIN COUNTY BOARD OF COMMISSIONERS	226 MIDDLE AVE	FLYRIA	ОН	44035	LORAIN COUNTY - LIST	226 MIDDLE AVE	ELYRIA	ОН	44035
LORAIN COUNTY BOARD OF COMMISSIONERS LORAIN COUNTY COMMINITY COLLEGE	1005 N ABBE RD	ELYRIA	OH	44035	LORAIN COUNTY - LIST LORAIN COUNTY COMMINITY COLLEGE	1005 N ABBE RD	ELYRIA	OH	44035
LORAIN COUNTY COMMUNITY COLLEGE	1005 N ABBE RD	ELYRIA	OH	44036	LORAIN COUNTY COMMUNITY COLLEGE	1005 N ABBE RD	ELYRIA	OH	44035
LOWERY JOHN R & TINA R	5426 OAKWOOD DR	SHEFFIELD LAKE	OH	44054	LOWERY JOHN R & TINA R	5426 OAKWOOD DR	SHEFFIELD LAKE	OH	44054
NOVEON INC	33571 WALKER RD	AVON LAKE	ОН	44012	LUBRIZOL TAX DEPARTMENT	29400 LAKELAND BL	WICKLIFFE	ОН	44092
LUNAS JANE MARQUARD	6066 CASE ROAD	NORTH RIDGEVILLE	ОН	44039	LUNAS JANE MARQUARD	6066 CASE ROAD	NORTH RIDGEVILLE	ОН	44039
LUTHER JANICE & LUTHER CARL	113 ARROW CT	ELYRIA	ОН	44035	LUTHER CARL	113 ARROW CT	ELYRIA	ОН	44035
LUZADER HOWARD	10519 DEWHURST RD	ELYRIA	ОН	44035	LUZADER HOWARD	10519 DEWHURST RD	ELYRIA	ОН	44035
LYNN STEVEN D	7469 DYKE RD	N RIDGEVILLE	ОН	44039	LYNN STEVEN D	7468 DYKE ROAD	N RIDGEVILLE	ОН	44039
MA JIAYI	33468 SHELLY COURT	AVON LAKE	OH	44012	MA JIAYI	33468 SHELLY COURT	AVON LAKE	OH	44012
MACBETH GERALD N	12750 GRAFTON RD	GRAFTON	ОН	44044	MACBETH GERALD N	12750 GRAFTON RD	GRAFTON	ОН	44044
MACNEAL RUSSELL C	1044 MAIN ST	GRAFTON	OH	44044	MACNEAL RUSSELL	1044 MAIN ST	GRAFTON	ОН	44044
MAN TBS FB MILLER LTD	635 MILLER RD	AVON LAKE	OH	44012	MAN TBS FB MILLER LTD	635 MILLER RD	AVON LAKE	OH	44012
MARLOWE MATTHEW J	2549 GRAFTON RD	GRAFTON	OH	44044	MARLOWE MATTHEW J	2549 GRAFTON RD	GRAFTON	OH	44044
MARSH GENERAL C	1310 GARFORD AV	ELYRIA	OH	44035	MARSH GENERAL C	1310 GARFORD AV	ELYRIA	OH	44035
MARTIN WILMA M	421 FOSTER AVE APT 120 E	ELYRIA	ОН	44035	MARTIN WILMA M	C/O DUNCAN	ELYRIA	OH	44035
MARTINEZ MARIO F & PEGGY S	136 ASHFIELD CT	ELYRIA	OH	44035	MARTINEZ MARIO F & PEGGY S	136 ASHFIELD CT	ELYRIA	ОН	44035
MAUS KATHERINE L	38028 CHESTNUT RIDGE RD	ELYRIA	OH	44035	MAUS KATHERINE L	38028 CHESTNUT RIDGE RD	ELYRIA	OH	44035
MAZANEK ANN M & MAZANEK JAMES J	38853 SUGAR RIDGE RD	N RIDGEVILLE	OH	44039	MAZANEK ANN M	38853 SUGAR RIDGE RD	N RIDGEVILLE	OH	44039
MCINTOSH JEAN L	660 MOORE RD	AVON LAKE	OH	44012 44039	MCINTOSH JEAN L	660 MOORE RD	AVON LAKE	OH	44012
MCKEE JOHNNY W & BRENDA S MCLAUGHLIN KATHRYN A	9270 BENDER RD 39305 BURNS RD	NORTH RIDGEVILLE N RIDGEVILLE	OH OH	44039	MCKEE JOHNNY W MCLAUGHLIN KATHRYN A	9270 BENDER ROAD 39305 BURNS RD	N RIDGEVILLE N RIDGEVILLE	OH OH	44039 44039
MEADOWS DONNA J TRUSTEE & MEADOWS RODNEY T TRUSTEE	4632 CASE RD	AVON	OH	44039	MEADOWS RODNEY	4632 CASE ROAD	AVON	OH	44039
METZ ROBERT E	6541 CASE RD	N RIDGEVILLE	ОН	44011	METZ ROBERT E	6541 CASE RD	N RIDGEVILLE	ОН	44011
MEXICHEM SPECIALTY RESINS INC	33587 WALKER RD	AVON LAKE	ОН	44039	MEXICHEM SPECIALTY RESINS INC	33587 WALKER RD	AVON LAKE	ОН	44012
MIDWAY/TW LLC	150 FREEDOM CT	ELYRIA	ОН	44012	MIDWAY/TW LLC	150 FREEDOM CT	ELYRIA	ОН	44012
MIHALIS RONALD & SHELVA	11809 GRAFTON RD	GRAFTON	OH	44044	MIHALIS RONALD & SHELVA	11809 GRAFTON RD	GRAFTON	OH	44044
MIKOLAJCIK CANDY A & MIKOLAJCIK STEPHEN	38480 RIVER RIDGE CT	GRAFTON	OH	44044	MIKOLAJCIK CANDY A	38480 RIVER RIDGE CT	GRAFTON	OH	44044
MILLER MARY B	39348 COLORADO AVE	AVON	OH	44011	MILLER MARY B	39348 COLORADO AVE	AVON	ОН	44011
MCDONALDS CORPORATION	32528 LORAIN RD	N RIDGEVILLE	ОН	44039	MIMAX 1 INCORPORATED	PO BOX 470151	BROADVIEW HTS	ОН	44147
3M PARKWAY INC					MINTZ FAMILY	5533 STATE RD	PARMA	ОН	44134
MISORSKI WILLIAM E & TINA M	6975 CASE RD	N RIDGEVILLE	ОН	44039	MISORSKI WILLIAM E & TINA M	6975 CASE RD	N RIDGEVILLE	ОН	44039
MOEN YVONNE F	39195 BURNS RD	N RIDGEVILLE	ОН	44039	MOEN YVONNE F	39195 BURNS RD	N RIDGEVILLE	OH	44039
MOHLER RAYMOND L	39786 PARSONS RD	GRAFTON	ОН	44044	MOHLER RAYMOND L	39786 PARSONS RD	GRAFTON	OH	44044
MOON ROAD HOLDINGS LLC	3122 MOON RD	AVON	OH	44011	MOON ROAD HOLDINGS LLC	3122 MOON RD	AVON	OH	44011
MOORE ROAD LLC	720 MOORE RD	AVON LAKE	ОН	44012	MOORE ROAD LLC	5539 CANAL RD	VALLEY VIEW	ОН	44125
MORAHAN DAVID J & KIMBERLY S	2585 NAGEL RD	AVON	OH	44011	MORAHAN DAVID	39280 DETROIT RD	AVON	ОН	44011
MT PISGAH MISSIONARY BAPTIST CHURCH					MT PISGAH MISSIONARY BAPTIST CHURCH	PARSONS RD	GRAFTON	OH	44044
MYERS SCOTT W	37537 FLINT RIDGE DRIVE	GRAFTON	OH		MYERS SCOTT W	37537 FLINT RIDGE DRIVE	GRAFTON	OH	44044
NORTH RIDGEVILLE CITY OF	PO BOX 9022	CANTON	OH	44711	N RIDGEVILLE CITY	7307 AVON BELDEN RD	N RIDGEVILLE	ОН	44039
NASH DONALD M & RUTH D TRUSTEES	38257 CHESTNUT RIDGE RD	ELYRIA	OH	44035	NASH DONALD M	38257 CHESTNUT RIDGE RD	ELYRIA	ОН	44035
NASH FAMILY TRUST	38261 CHESTNUT RIDGE RD	ELYRIA	OH	44035	NASH RALPH K	38261 CHESTNUT RIDGE ROAD	ELYRIA	ОН	44035
FOUNTAIN NELSON AUDREY W & NELSON MELVIN O	556 STILLWATER BLVD	ELYRIA	OH	44035	NELSON MELVIN O	556 STILL WATER BLVD	ELYRIA	OH	44035
NELSON TIMOTHY W & TAMMY L	5561 PIN OAK CR	SHEFFIELD LAKE	ОН	44054	NELSON TIMOTHY W & TAMMY L	5561 PIN OAK CR	SHEFFIELD LAKE	OH	44054
NORFOLK SOUTHERN COMBINED RAILROAD SUBSIDIARIES	110 FRANKLIN RD S E	ROANOKE	VA	240420028	NORFOLK SOUTHERN CORPORATION TAX DEPARTMENT	110 FRANKLIN RD SE	ROANOKE	VA	240420028

4

Owner Name	Owner Address	Owner City	Owner State	Owner Zip	Mail to Name	Mail to Address	Mail to City	Mail to State	e Mail to Zip
NORTH AMERICAN INDIAN INC	3772 FENN RD	MEDINA	ОН	44256	NORTH AMERICAN INDIAN INC	11935 GRAFTON RD	GRAFTON	ОН	44044
NORTHCUTT CHARLES L III	3122 WHEATON DR	AVON	ОН	44011	NORTHCUTT CHARLES L III	3122 WHEATON DR	AVON	ОН	44011
NOSTER IRENE M TRUSTEES & MEKKER GEORGE C ETAL	11665 GRAFTON RD	GRAFTON	ОН	44044	NOSTER IRENE	11665 GRAFTON RD	GRAFTON	ОН	44044
MEKKER GEORGE C & NOSTER IRENE M TRUSTEES	11665 GRAFTON RD	GRAFTON	ОН	44044	NOSTER IRENE M	11665 GRAFTON RD	GRAFTON	OH	44044
NOWLIN SUSAN R	161 ARROW CT	ELYRIA	ОН	44035	NOWLIN SUSAN R	161 ARROW CT	ELYRIA	ОН	44035
NR PROPERTIES LLC	39290 CENTER RIDGE RD	N RIDGEVILLE	ОН	44039	NR PROPERTIES LLC	39290 CENTER RIDGE RD	N RIDGEVILLE	ОН	44039
OCONNOR DAVID K & JULIE M	13316 INDIAN HOLLOW RD	GRAFTON	ОН	44044	OCONNOR DAVID K & JULIE M	13316 INDIAN HOLLOW RD	GRAFTON	OH	44044
OHIO TURNPIKE COMMISSION	46795 MIDDLE RIDGE RD	AMHERST	OH	44001	OHIO TURNPIKE COMMISSION	682 PROSPECT ST	BEREA	OH	44017
OLD PHOENIX LTD	38333 CHESTNUT RIDGE RD	ELYRIA	ОН	44035	OLD PHOENIX LTD	38333 CHESTNUT RIDGE RD	ELYRIA	OH	44035
ORCHARD TRAIL DEVELOPMENT GROUP LLC	31919 FIELDSTONE CIR	AVON LAKE	ОН	44012	ORCHARD TRAIL DEVELOPMENT GROUP LLC	31919 FIELDSTONE CIR	AVON LAKE	OH	44012
ORCHARD TRAIL HOMEOWNERS ASSOCIATION INC				7.00	ORCHARD TRAIL HOMEOWNERS	C/O BARNETT MANAGEMENT	BEACHWOOD	ОН	44122
OROSZ ANDREA B	15024 WHEELER RD	LA GRANGE	ОН	44050	OROSZ ANDREA B	15024 WHEELER RD	LA GRANGE	OH	44050
OUT ON A LIMB PROPERTIES	33659 WALKER RD	AVON LAKE	OH	44012	OUT ON A LIMB PROPERTIES	95 ROSEWOOD DR	AVON LAKE	OH	44012
OUT ON A LIMB PROPERTIES LLC	95 ROSEWOOD DR	AVON LAKE	OH	44012	OUT ON A LIMB PROPERTIES LLC	95 ROSEWOOD DR	AVON LAKE	OH	44012
OVERBROOK FARMS LTD	1268 E BROAD ST	ELYRIA	ОН	44012	OVERBROOK FARMS LTD	578 OVERBROOK RD	ELYRIA	OH	44035
P & C HOLDINGS LTD	638 MOORE RD	AVON LAKE	ОН	44033	P & C HOLDINGS LTD	638 MOORE RD	AVON LAKE	OH	44012
PAINTER GARY LEE	7104 CASE RD	N RIDGEVILLE	OH	44012	PAINTER GARY LEE	7104 CASE RD	N RIDGEVILLE	OH	44012
		N RIDGEVILLE	OH	44039	-		N RIDGEVILLE	ОН	44039
PAINTER SHIRLEY A	7074 CASE RD				PAINTER SHIRLEY A	7074 CASE RD			
PALM KEVIN R & DIANE L	39662 PARSONS RD	GRAFTON	OH	44044	PALM KEVIN R & DIANE L	39662 PARSONS RD	GRAFTON	OH	44044
PARKER HANNIFIN CORP	17325 EUCLID AVE	CLEVELAND	OH	44112	PARKER HANNIFIN CORP	6035 PARKLAND BLVD	CLEVELAND	OH	44124
PASCOE KRECIC KRISTEN C & KRECIC ANTHONY	37938 CHESTNUT RIDGE RD	ELYRIA AVON	OH OH	44035 44011	PASCOE KRECIC KRISTEN C PATRICK KATHRYN A	37938 CHESTNUT RIDGE RD 3092 WHEATON PLACE	ELYRIA AVON	OH OH	44035 44011
PATRICK KATHRYN A & PATRICK COLE D	3092 WHEATON PLACE								
PENCE BEULAH J	38227 CHESTNUT RIDGE RD	ELYRIA	OH	44035	PENCE BEULAH J	38227 CHESTNUT RIDGE RD	ELYRIA	OH	44035
PENCE RALPH A & PAMELA A	3119 GRAFTON RD	GRAFTON	ОН	44044	PENCE RALPH A JR & PAMELA A	16460 CHAMBERLAIN RD	GRAFTON	OH	44044
PINCURA JOSEPH	4561 CASE ROAD	AVON	OH	44011	PINCURA JOSEPH	4561 CASE ROAD	AVON	OH	44011
PINEHAVEN GREENHOUSES INC	39424 DETROIT RD	AVON	ОН	44011	PINEHAVEN GREENHOUSES INC	39424 DETROIT RD	AVON	OH	44011
PLAS JAMES A TRUSTEE	19034 STATE ROUTE 301	LA GRANGE	ОН	44050	PLAS JAMES A	19034 STATE ROUTE 301	LA GRANGE	OH	44050
PLAS LAWRENCE R	36637 GRAFTON EASTERN RD	GRAFTON	OH	44044	PLAS LAWRENCE R	36637 GRAFTON EASTERN RD	GRAFTON	OH	44044
PLAS PAUL J & CHRISTINE MATUSIK PLAS	39834 BANKS RD	GRAFTON	OH	44044	PLAS PAUL J & CHRISTINE MATUSIK PLAS	39834 BANKS RD	GRAFTON	OH	44044
POLYONE CORPORATION	33587 WALKER RD	AVON LAKE	OH	44012	POLYONE CORPORATION	33587 WALKER RD	AVON LAKE	OH	44012
PROCHASKA GEORGE J & SANDRA L	14077 HIDDEN LN	GRAFTON	ОН	44044	PROCHASKA GEORGE J & SANDRA L	14077 HIDDEN LN	GRAFTON	ОН	44044
PRUNTY JOHN E & LEAH B	14023 HIDDEN LN	GRAFTON	ОН	44044	PRUNTY JOHN E & LEAH B	14023 HIDDEN LN	GRAFTON	OH	44044
PUSTAY ROBERT	39393 BURNS RD	N RIDGEVILLE	ОН	44039	PUSTAY ROBERT	39393 BURNS RD	N RIDGEVILLE	ОН	44039
PYCRAFT DANNY R & MARION M	6880 CASE ROAD	N RIDGEVILLE	ОН	44039	PYCRAFT DANNY R & MARION M	6880 CASE ROAD	N RIDGEVILLE	ОН	44039
R W BECKETT CORP	38251 CENTER RIDGE RD	N RIDGEVILLE	ОН	44039	R W BECKETT CORP	P O BOX 1289	ELYRIA	ОН	44036
R W BECKETT CORPORATION	PO BOX 1289	ELYRIA	ОН	44036	R W BECKETT CORPORATION	P O BOX 1289	ELYRIA	ОН	44036
RADUNE CHARLES E & JANET C	5985 CASE RD	NORTH RIDGEVILLE	ОН	44039	RADUNE CHARLES E & JANET C	5985 CASE RD	NORTH RIDGEVILLE	OH	44039
RALICH GAIL A	39789 FRENCH CREEK RD	AVON	ОН	44011	RALICH GAIL A	39789 FRENCH CREEK RD	AVON	ОН	44011
RAMIREZ RACHELLE A	5375 APPLE CREEK DR	SHEFFIELD LAKE	ОН	44054	RAMIREZ RACHELLE A	5375 APPLE CREEK DR	SHEFFIELD LAKE	ОН	44054
REED DOUGLAS L & LINDA G	13288 INDIAN HOLLOW RD	GRAFTON	ОН	44044	REED DOUGLAS L & LINDA G	13288 INDIAN HOLLOW RD	GRAFTON	ОН	44044
REIS WILLIAM R & HEIDI J	13127 INDIAN HOLLOW RD	GRAFTON	ОН	44044	REIS WILLIAM R & HEIDI J	13127 INDIAN HOLLOW RD	GRAFTON	ОН	44044
RESAR BETTY	2445 GRAFTON RD	GRAFTON	ОН	44044	RESAR BETTY	2445 GRAFTON RD	GRAFTON	ОН	44044
RESAR DUSTIN	3150 REPUBLIC BL N #3	TOLEDO	ОН	43615	RESAR DUSTIN	3150 REPUBLIC BL N #3	TOLEDO	ОН	43615
RESAR NICHOLAS & HELEN	9942 E RIVER ST	ELYRIA	OH	44035	RESAR NICHOLAS & HELEN	11709 GRAFTON RD	GRAFTON	OH	44044
RESAR PEGGY MARIE	11815 GRAFTON RD	GRAFTON	ОН	44044	RESAR PEGGY MARIE	11741 GRAFTON RD	GRAFTON	ОН	44044
RESAR RICHARD P	2441 GRAFTON RD	GRAFTON	OH	44044	RESAR RICHARD P	2441 GRAFTON RD	GRAFTON	OH	44044
RIECK DALE J	968 MOORE RD	AVON	ОН	44011	RIECK DALE J	968 MOORE RD	AVON	OH	44011
RINN PROPERTIES LLC	33659 WALKER RD	AVON LAKE	OH	44012	RINN PROPERTIES LLC	33659 WALKER RD	AVON LAKE	OH	44012
RIVERA STEPHANIE & RIVERA SAUL	38420 RIVER RIDGE CT	GRAFTON	ОН	44044	RIVERA STEPHANIE	38420 RIVER RIDGE CT	GRAFTON	OH	44044
ROACH FANNIE M TRUSTEE & ROACH RAY D TRUSTEE	9419 STONE ROAD	LITCHFIELD	ОН	44253	ROACH RAY D	9419 STONE RD	LITCHFIELD	ОН	44044
ROMERO LYNNE D	11252 ARROWHEAD DR	GRAFTON	ОН	44044	ROMERO LYNNE D	11252 ARROWHEAD DR	GRAFTON	OH	44044
ROTH MARY ELLEN	39224 HAWTHORNE DRIVE	AVON	ОН	44044	ROTH MARY ELLEN	39224 HAWTHORNE DRIVE	AVON	OH	44044
ROTZ ROBERT J & ELAINE M TRUSTEES	80 EDGEWOOD DR	AVON LAKE	OH	44011	ROTZ ROBERT J & ELAINE M TRUSTEES	80 EDGEWOOD DR	AVON LAKE	OH	44011
ROWLAND WILLIAM D & JOY W	3088 FIELDSTONE TRL	AVON	OH	44011	ROWLAND WILLIAM D & JOY W	3088 FIELDSTONE TRL	AVON	OH	44011
RT 57 CHESTNUT RIDGE LLC	38241 CHESTNUT RIDGE RD	COLUMBIA STATION	OH	44028	RT 57 CHESTNUT RIDGE LLC	614 WEST SUPERIOR AV #200	CLEVELAND	OH	44113
RUDNIK MATTHEW E & LAURA B	3120 WHEATON DR	AVON	OH	44011	RUDNIK MATTHEW E & LAURA B	3120 WHEATON DR	AVON	OH	44011
RUMPLER BEVERLY K	S R 10	HURON	OH	44839	RUMPLER BEVERLY K	414 SENECA	HURON	OH	44839
RUMPLER BEVERLY K ETAL	S R 10	GRAFTON	ОН	44044	RUMPLER BEVERLY K ETAL	414 SENECA AVE	HURON	OH	44839
RURAL LORAIN COUNTY WATER AUTHORIT					RURAL LORAIN COUNTY WATER AUTHORIT	42401 OHIO 303	LAGRANGE	OH	44050
RURAL LORAIN COUNTY WATER AUTHORTY	MOORE RD	AVON LAKE	ОН	44012	RURAL LORAIN COUNTY WATER AUTHORTY	42401 OHIO 303	LAGRANGE	OH	44050
RUSSO SHELLEY R	10405 DEWHURST RD	ELYRIA	ОН	44035	RUSSO SHELLEY R	10405 DEWHURST RD	ELYRIA	OH	44035
RYAN JOHN M & LAUREL V	13150 INDIAN HOLLOW	GRAFTON	ОН	44044	RYAN JOHN M & LAUREL V	13150 INDIAN HOLLOW RD	GRAFTON	OH	44044
		AVON LAKE	ОН	44012	RYKON PLATING INC	555 MILLER RD	AVON LAKE	OH	44012
RYKON PLATING INC	555 MILLER RD								44044
RYKON PLATING INC RYMARCZYK RONALD B & TONNIE S	38000 ROYALTON RD	GRAFTON	ОН	44044	RYMARCZYK RONALD B & TONNIE S	38000 ROYALTON RD	GRAFTON	OH	44044
RYKON PLATING INC RYMARCZYK RONALD B & TONNIE S SALINAS OSCAR		GRAFTON N RIDGEVILLE	ОН	44044 44039	SALINAS OSCAR	38000 ROYALTON RD 6782 CASE RD	N RIDGEVILLE	ОН	44039
RYKON PLATING INC RYMARCZYK RONALD B & TONNIE S	38000 ROYALTON RD								
RYKON PLATING INC RYMARCZYK RONALD B & TONNIE S SALINAS OSCAR	38000 ROYALTON RD 6782 CASE RD	N RIDGEVILLE	ОН	44039	SALINAS OSCAR	6782 CASE RD	N RIDGEVILLE	ОН	44039

5

AMAS DECIDED SERVED	Owner Name	Owner Address	Owner City	Owner State	Owner Zip	Mail to Name	Mail to Address	Mail to City	Mail to State	Mail to Zip
CAMERIA CAMERIA A CAMERIA A 1389 LASTRONO DE GART DE CANTER ANA 18 GARTEN CAMERIA A 1389 LASTRONO DE GARTEN CANTER ANA 18 GARTEN CAMERIA A 1389 LASTRONO DE GARTEN CANTER ANA 18 GARTEN CANTER							1 11 11 111	GRAFTON	ОН	44044
COLUMN DESCRIPTION COLUMN DESCRIPTION COLUMN DESCRIPTION COLUMN DESCRIPTION DESCRI							11890 FASTWOOD DR	GRAFTON	ОН	44044
SCHAFFE PROPRIES VILLE STOPP SCHAFFE SEVERIS SEVE								GRAFTON	OH	44044
CORRESPONDED SOURCE SOU					11011				ОН	44011
COMMISSION AND ADDRESS MAYON CARRY MANUAL PROPERTY MAYON CARRY FORM AS STATEMENT RESIDENCE MAYON CARRY FOR AS STATEMENT RESIDENCE MAYON CARRY FO					_				ОН	44035
SOMESTE TROMANS CONCIDENT TROMOTORY & LINCOLS TRUSTED CONCIDENT TROMOTORY & LINCOLS TRUSTED SOMESTE TRUSTED SOMESTE TROMOTORY & LINCOLS TRUSTED SOMESTE TRU									ОН	44012
CEMPAGE AND MAN \$ ALMAS \$ TRUSTES SISTS SUGAR RODGE RD N. RECOLUTE AND MAN STRUCT HAT ARE COMMANY LACKO STRUCT RADIO LACKYDOD CH 44007 SCOTT & TEXTED SISTS SUGAR RODGE RD N. RECOLUTE AND MAN STRUCT RADIO LACKYDOD CH 44007 SCOTT & TEXTED SISTS SUGAR RODGE RD N. RECOLUTE AND MAN STRUCT RADIO LACKYDOD CH 44007 SCOTT & TEXTED SISTS SUGAR RODGE RD N. RECOLUTE AND MAN STRUCT RADIO LACKYDOD CH 44007 SCOTT & TEXTED CH SISTS SUGAR RADIO CH SISTS SUGAR RADIO CH 44007 SCOTT & TEXTED CH SISTS SUGAR RADIO C		080 WOOKE KD	AVON LAKE	011	44012			N RIDGEVILLE	ОН	44039
SOUTH READY 1400 PRIOR DEFINITION DAD 34470 34								N RIDGEVILLE	OH	44039
MASTERS COMPANY 1400 DEFENDS 1900 AND 100 H 14127 SOUTH STEERS 1900 AND 1		CCO2 CACE DD	NODTH DIDCENNILE	OU	44020				OH	44039
SARGID SCOTT & TREET SECT AMARKS RD SARTON									OH	
SEMPLE SHANDON										44145
SEDICE_CATOR & LAVERNEY TINDSTEES 7260 FLAT ROOG OR CARTON									OH	44044
STITZ AMERILA & JAUNA L. 37999 CHESTRUT RIDGE RD NEDCHILLE OH								N RIDGEVILLE	OH	44039
SEME_MINIST_STEP_ADMIN_STEP_ADM									OH	44044
SEVERSON STEPMANE EAY									ОН	44035
SAWA MOTHER P. A. MANCY L								N RIDGEVILLE	ОН	44039
SAMA NOT MS CATHERINE A								SAN DIEGO	CA	921600971
MILAGE OF SHEFFELD									ОН	44035
SIRREPUTOWSM ANDREW I & ROSSMARY STORAGE CREEKE DR AVON MICHITON MULLANA D IR & DEBRAR E 320.5 FINNT RIDGE DR AVON MICHITON MULLANA D IR & DEBRAR E 320.5 FINNT RIDGE DR AVON MICHITON MULLANA D IR & DEBRAR E 320.5 FINNT RIDGE DR MORTH RIDGEVILLE MORTH R									OH	44035
SMICLETON MULTIAN AR A DEBRAG E 8326 FUNT RIDGE OR AND ON HADDA ARD SERVINE SEES SEES FUNT RIDGE OR AND STREET SEED ARD TO HADDA ARD SEES SEES FUNT RIDGE OR AND STREET SEED ARD TO HADDA ARD SEES SEES FUNT RIDGE OR SMITH FAUL & DEBRAG REGORY JOSEPH 19430 FROST FOD DALAS AND SEES OR SERGORY JOSEPH 19430 FROST FOD DALAS AND SEES OR SERGORY JOSEPH 19430 FROST FOD DALAS AND SEES OR SERGORY JOSEPH 19430 FROST FOD DALAS AND SEES OR SERGORY JOSEPH 19430 FROST FOD DALAS AND SEES OR SERGORY JOSEPH 19430 FROST FOD DALAS AND SEES OR SERGORY JOSEPH 19430 FROST FOD DALAS AND SEES OR SERGORY JOSEPH 19430 FROST FOD DALAS AND SEES OR SERGORY JOSEPH 19430 FROST FOD DALAS AND SEES OR SERGORY JOSEPH 19430 FROST FOD DALAS AND SEES OR SERGORY JOSEPH 19430 FROST FOD DALAS AND SEES OR SERGORY JOSEPH 19430 FROST FOD DALAS AND SEES OR SERGORY JOSEPH 19430 FROST FOD DALAS AND SEES OR SERGORY JOSEPH 19430 FROST FOD DALAS AND SEES OR SERGORY JOSEPH 19430 FROST FOD DALAS AND SEES OR SERGORY JOSEPH 19430 FROST FOD DALAS AND SEES OR SERGORY JOSEPH 19430 FROST FOD DALAS AND SEES OR SERGORY JOSEPH 19430 FROST F									ОН	44035
SINGELTON WILLIAMS AIR & DEBRA E 8865 FLINT RIDGE OR GRAFTON OH 44044 SWITH FREDAM 7020 CASE 8D NORTH RIDGE OR 68AFTON OH 44045 SWITH FREDAM 7020 CASE 8D NORTH RIDGE OR 68AFTON OH 44045 SWITH FREDAM 7020 CASE 8D NORTH RIDGE OR 68AFTON OH 44046 SWITH FREDAM 7020 CASE 8D NORTH RIDGE OR 7020 CASE 8D 7020 CASE 8D NORTH RIDGE OR 7020 CASE 8D 7020 CASE								SHEFFIELD VILLAGE	OH	44054
SMITH FREDAM DERES GREGORY JOSEPH 1943 FROTOST BID DALLAS OR 97-38. MITH FRAUE & DERES GREGORY JOSEPH 1943 FROTOST BID DALLAS OR 97-38. MITH FRAUE & DERES GREGORY JOSEPH 1943 FROTOST BID DALLAS OR 97-38. MITH FRAUE & DERES GREGORY JOSEPH 1943 FROTOST BID DALLAS OR 97-38. MITH FRAUE & DERES GREGORY JOSEPH 1943 FROTOST BID DALLAS OR 97-38. MITH FRAUE & DERES GREGORY JOSEPH 1943 FROTOST BID DALLAS OR 97-38. MITH FRAUE & SAMITH FRAUE RESPONSAL 1931 SUGAR BROGE RD N RIDGE STREET FRAUE WAS AND STREET FRAUE W				_					OH	44011
SMITH STEVEN RE SERRATE VETORIAL 3933 SMARTH STEVEN RE SERRATE VETORIAL 3930 HIDDEN LIN GRAPTON ON 44044 SWORDER OWNER & SUMPLY CO 350 REBIDGE ST ELYBIA ON 44044 SWORDER OWNER & SUMPLY CO 350 REBIDGE ST ELYBIA ON 44045 SWITZER RABOWARE & SUMPLY CO 350 REBIDGE ST ELYBIA ON 44045 SWITZER RABOWARE & SUMPLY CO 350 REBIDGE ST ELYBIA ON 44055 SWITZER RABOWARE & SUMPLY CO 350					11011			GRAFTON	OH	44044
SMITH STEVEN E READATE VICTORIAL 3913 SUGAR RIDGE RD N. RIDGEVILE OH 44039 SMITH STEVEN E READATE VICTORIAL 3931 SUGAR RIDGE RD RIDGE ST SWORD COMPAN E SONNAL 13901 HIDDEN IN GRAFTON OH 44035 SWORD COMPAN E SONNAL 13901 HIDDEN IN GRAFTON OH 44035 SWORD COMPAN E SONNAL 13901 HIDDEN IN GRAFTON OH 44035 SWORD COMPAN E SONNAL 13901 HIDDEN IN GRAFTON OH 44035 SWITZER HARDWARE \$1.50 E. BRIDGE ST ELYMAL OH 44035 SWITZER HARDWARE \$1.50 E. BRIDGE ST ELYMAL SWORD COMPAN E SUMPLY CO 15.50 E. BRIDGE ST ELYMAL PART DE SONNAL 1350 E.	H FREDA M	7020 CASE RD	NORTH RIDGEVILLE	ОН	44039	SMITH FREDA M	7020 CASE RD	NORTH RIDGEVILLE	ОН	44039
SATORE, JOHN E & DONNAL 1390 HIDDEN IN GRAFTON OH 44041 STREET AND ADDRESS AS SATOR JOHN E & DONNAL 1390 HIDDEN IN GRAFTON OH 550 E BRIDGE ST ELYBIA OH 44035 STREET AND ADDRESS AS SATOR JOHN E & DONNAL 1390 HIDDEN IN GRAFTON OH 550 E BRIDGE ST ELYBIA OH 44035 STREET AND ADDRESS AS SATOR JOHN E & DONNAL 1390 HIDDEN IN GRAFTON OH 550 E BRIDGE ST ELYBIA OH 44035 STREET AND ADDRESS AS SATOR JOHN E & DONNAL 1390 HIDDEN IN RIDGE STREET AND ADDRESS AS SATOR JOHN E & DONNAL 1390 HIDDEN IN RIDGE STREET AND ADDRESS AS SATOR JOHN E & DONNAL 1390 HIDDEN IN RIDGE STREET AND ADDRESS AS SATOR JOHN E & DONNAL 1390 HIDDEN IN RIDGE STREET AND ADDRESS AS SATOR JOHN E & DONNAL 1390 HIDDEN IN RIDGE STREET AND ADDRESS AS SATOR JOHN E & DONNAL 1390 HIDDEN IN RIDGE STREET AND ADDRESS AS SATOR JOHN E & DONNAL 1390 HIDDEN IN RIDGE STREET AND ADDRESS AS SATOR JOHN E & DONNAL 1390 HIDDEN IN RIDGE STREET AND ADDRESS AS SATOR JOHN E & DONNAL 1390 HIDDEN IN RIDGE STREET AND ADDRESS AS SATOR JOHN E & DONNAL 1390 LOCAR STREET AND ADDRESS AS SATOR JOHN E & DONNAL 1390 LOCAR STREET AND ADDRESS AS SATOR JOHN E & DONNAL 1390 LOCAR STREET AND ADDRESS AS SATOR JOHN E & DONNAL 1390 LOCAR STREET AND ADDRESS AS SATOR JOHN E & DONNAL 1390 HIDDEN IN RIDGE STREET AND ADDRESS AS SATOR JOHN E & DONNAL 1390 LOCAR STREET AND ADDRESS AS SATOR JOHN E & DONNAL 1390 LOCAR STREET AND ADDRESS AS SATOR JOHN E & DONNAL 1390 LOCAR STREET AND ADDRESS AS SATOR JOHN E & DONNAL 1390 LOCAR STREET AND ADDRESS AS SATOR JOHN E & DONNAL 1390 LOCAR STREET AND ADDRESS AS SATOR JOHN E & DONNAL 1390 LOCAR STREET AND ADDRESS AS SATOR JOHN E & DONNAL 1390 LOCAR STREET AND ADDRESS AS SATOR JOHN E & DONNAL 1390 LOCAR STREET AND ADDRESS AS SATOR JOHN E & DONNAL 1390 LOCAR STREET AND ADDRESS AS SATOR JOHN E & DONNAL 1390 LOCAR STREET AND ADDRESS AS SATOR JOHN E & DONNAL 1390 LOCAR STREET AND ADDRESS AS SATOR JOHN E & DONNAL 1390 LOCAR STREET AND ADDRESS AS SATOR JOHN E & DONNAL 1390 LOCAR STREET AND ADDRESS AS SATOR JOHN E & DONNAL 1390 LOCAR STREET AND ADDRESS AS SATOR JOHN E & DONNAL	H PAUL & DEEKS GREGORY JOSEPH	19430 FROST RD	DALLAS	OR	97338	SMITH PAUL R	19430 FROST RD	DALLAS	OR	97338
SPITZER HARDWARE & SUPPLY CO	H STEVEN F & FRANTZ VICTORIA I	39133 SUGAR RIDGE RD	N RIDGEVILLE	ОН	44039	SMITH STEVEN F & FRANTZ VICTORIA I	39133 SUGAR RIDGE RD	N RIDGEVILLE	ОН	44039
SPITZER HADDWARE & SUPPLY CO 150 E BRIDGE ST LEYNIA 175 DYKE AVE NORTH RIDGEVILLE OH 44033 PRINCIAGE STALLA 175 DYKE AVE NORTH RIDGEVILLE OH 44033 PRINCIAGE STALLA 175 DYKE AVE NORTH RIDGEVILLE OH 44033 PRINCIAGE STALLA 175 DYKE AVE NORTH RIDGEVILLE OH 44033 PRINCIAGE STALLA 175 DYKE AVE NORTH RIDGEVILLE OH 44033 PRINCIAGE STALLA 175 DYKE AVE NORTH RIDGEVILLE OH 44033 PRINCIAGE STALLA 175 DYKE AVE NORTH RIDGEVILLE OH 44033 PRINCIAGE STALLA 175 DYKE AVE NORTH RIDGEVILLE OH 44033 PRINCIAGE STALLA 11890 CASTLETON IN GRAFTON OH 44044 176 DYKE AVE 176 DYKE AVE NORTH RIDGEVILLE OH 44039 PRINCIAGE STALLA 177 DYKE AVE 177	ER JOHN F & DONNA L	13901 HIDDEN LN	GRAFTON	ОН	44044	SNYDER JOHN F & DONNA L	13901 HIDDEN LN	GRAFTON	ОН	44044
SPRINGVIELE DEVELOPMENT COMPANY LTD	ER HARDWARE & SUPPLY CO	150 E BRIDGE ST	ELYRIA	OH	44035	SPITZER HARDWARE	150 E. BRIDGE STREET	ELYRIA, OHIO	ОН	44035
SPRINGNIE DEVELOPMENT COMPANY LTD 200 S LOGAN ST ELYRIA OH 40335 SPRINGVIALE INVESTMENTS 200 S LOGAN ST ELYRIA FIRE CASE RD N RIDGEVILLE N RIDGEVIL	ER HARDWARE & SUPPLY CO	150 E BRIDGE ST	ELYRIA	ОН	44035	SPITZER HDWE & SUPPLY CO	150 E BRIDGE ST	ELYRIA	ОН	44035
SPYAK_DINN M & ROBBIN	IGER STELLA	7476 DYKE AVE	NORTH RIDGEVILLE	ОН	44039	SPRINGER STELLA	7476 DYKE RD	N RIDGEVILLE	ОН	44039
STANCEY JOHN & VIORICA TRUSTEES 11890 CASTLETON IN GRAFTON OH 45940 37ANCEY JOHN & VIORICA 11890 CASTLETON IN GRAFTON OH 45940 37ANCEY JOHN & VIORICA 11890 CASTLETON IN GRAFTON OH 45940 37ANCEY JOHN & VIORICA 13071 TINDAY HOLLOW RD GRAFTON OH 44040 37ANCEY JOHN & VIORICA 13071 TINDAY HOLLOW RD GRAFTON OH 44040 37ANCEY JOHN & VIORICA 13071 TINDAY HOLLOW RD GRAFTON OH 44040 37ANCEY JOHN & VIORICA 13071 TINDAY HOLLOW RD GRAFTON OH 44040 37ANCEY JOHN & VIORICA 13071 TINDAY HOLLOW RD GRAFTON OH 44040 37ANCEY JOHN & VIORICA 13071 TINDAY HOLLOW RD GRAFTON OH 44040 37ANCEY JOHN & VIORICA 13071 TINDAY HOLLOW RD GRAFTON OH 44040 37ANCEY JOHN & VIORICA 13071 TINDAY HOLLOW RD GRAFTON OH 44040 37ANCEY JOHN & VIORICA 13071 TINDAY HOLLOW RD GRAFTON OH 44040 37ANCEY JOHN & VIORICA 13071 TINDAY HOLLOW RD GRAFTON OH 44098 37ANCEY JOHN & VIORICA 13072 BURNER RD REPROVED RE	IGVALE DEVELOPMENT COMPANY LTD	260 S LOGAN ST	ELYRIA	ОН	44035	SPRINGVALE INVESTMENTS	260 S LOGAN ST	ELYRIA	ОН	44035
DHIO_STATE OF	(JOHN M & ROBBIN L	6718 CASE RD	N RIDGEVILLE	ОН	44039	SPYAK JOHN M & ROBBIN L	6718 CASE RD	N RIDGEVILLE	ОН	44039
STEINER RITA M	CEY JOHN & VIORICA TRUSTEES	11890 CASTLETON LN	GRAFTON	ОН	44044	STANCEY JOHN & VIORICA	11890 CASTLETON LN	GRAFTON	ОН	44044
STEMBER RITA M	STATE OF	241 STANFORD PARKWAY	FINDLAY	OH	45840	STATE OF OHIO	906 N CLARK ST	ASHLAND	ОН	44805
STRAUSS JACK G & CONSTANCE 13017 INDIAN HOLLOW RD GRAFTON OH 44044 3TRAUSS JACK G 3307 BURNS RD RINGEFULLE OH 44049 STRICKLER HARPER L & BRENDA K 39379 BURNS RD N RINGE STRICK G OH 44049 STRICKLER HARPER L & BRENDA K 39379 BURNS RD N RINGE STRICK G OH 44049 STRICKLER HARPER L & BRENDA K 39379 BURNS RD N RINGE STRICK DIANA R 11921 EASTWOOD DR GRAFTON OH 44044 STRICK DIANA R 11921 EASTWOOD DR GRAFTON OH 44044 STRICK DIANA R 11921 EASTWOOD DR GRAFTON OH 44049 SULLINGER NOBERT W RUSTEE 39080 SUGAR RIDGE RD N RIDGE WILLE OH 44039 SULLINGER ROBERT W 39080 SUGAR RIDGE RD N RIDGE WILLE OH 44049 SULLINGER ROBERT W 39080 SUGAR RIDGE RD N RIDGE WILLE ROBERT W 10593 DEWHURST RD ELYRIA OH 44035 SULLINGER ROBERT W 39080 SUGAR RIDGE RD N RIDGE WILLE ROBERT W 10593 DEWHURST RD ELYRIA OH 44035 SUEENEY BETTY LOU 10593 DEWHURST RD ELYRIA OH 44035 SUEENEY BETTY LOU 10593 DEWHURST RD ELYRIA OH 44035 SUEENEY BETTY LOU 10593 DEWHURST RD ELYRIA OH 44035 SUEENEY BETTY LOU 10593 DEWHURST RD ELYRIA OH 44035 SUEENEY BETTY LOU 10593 DEWHURST RD ELYRIA OH 44035 SUEENEY BETTY LOU 10593 DEWHURST RD ELYRIA OH 44035 SUEENEY BETTY LOU 10593 DEWHURST RD ELYRIA OH 44035 SUEENEY BETTY LOU 10593 DEWHURST RD ELYRIA OH 44035 SUEENEY BETTY LOU 10593 DEWHURST RD ELYRIA OH 44035 SUEENEY BETTY LOU 10593 DEWHURST RD ELYRIA OH 44035 TAKACS CHARLES L 121 ARROW CT ELYRIA OH 44035 TAKACS CHARLES L 121 ARROW CT ELYRIA OH 44035 TAKACS CHARLES L 121 ARROW CT ELYRIA OH 44035 TAKACS CHARLES L 121 ARROW CT ELYRIA OH 44045 TAKACS CHARLES L 121 ARROW CT ELYRIA OH 44045 TAKACS CHARLES L 121 ARROW CT ELYRIA OH 44045 TAKACS CHARLES L 121 ARROW CT ELYRIA OH 44045 TAKACS CHARLES L 121 ARROW CT ELYRIA OH 44045 TAKACS CHARLES L 121 ARROW CT ELYRIA OH 44045 TAKACS CHARLES								N RIDGEVILLE	ОН	44039
STRICKLER HARPER L & BERNDA K 39379 BURNS RD N RIDGEVILE OH 44039 STRICKLER HARPER L & BRENDA K 39379 BURNS RD N RIDGE								GRAFTON	ОН	44044
STROCK DIANA R					44039			N RIDGEVILLE	OH	44039
SULLINGER ROBERT W TRUSTEE & MABEL ETAL 32135 COOK RD N RIGGEVILLE OH 44039 SULLINGER MARLE 39189 SUGAR RIDGE N RIDGE SULLINGER ROBERT W TRUSTEE 39080 SUGAR RIDGE RD NORTH RIDGEVILLE OH 44039 SULLINGER ROBERT W 39080 SUGAR RIDGE RD NORTH RIDGEVILLE OH 44039 SULLINGER ROBERT W 39080 SUGAR RIDGE RD NORTH RIDGEVILLE OH 44039 SULLINGER ROBERT W 39080 SUGAR RIDGE RD NORTH RIDGEVILLE OH 44039 SULLINGER ROBERT W 15050 DEWHURST RD EVRIA OH 44039 SZENTE TIMOTHY 6294 CASE ROAD NORTH RIDGEVILLE OH 44039 SZENTE TIMOTHY 6294 CASE ROAD NORTH RIDGEVILLE OH 44039 SZENTE TIMOTHY 6294 CASE ROAD NORTH RIDGEVILLE OH 44039 SZENTE TIMOTHY 6294 CASE ROAD NORTH RIDGEVILLE OH 44039 SZENTE TIMOTHY 6294 CASE ROAD NORTH RIDGEVILLE OH 44039 SZENTE TIMOTHY 6294 CASE ROAD NORTH RIDGEVILLE OH 44039 SZENTE TIMOTHY 6294 CASE ROAD NORTH RIDGEVILLE OH 44039 SZENTE TIMOTHY 6294 CASE ROAD NORTH RIDGEVILLE OH 44039 SZENTE TIMOTHY 6294 CASE ROAD NORTH RIDGEVILLE OH 44039 SZENTE TIMOTHY 6294 CASE ROAD NORTH RIDGEVILLE OH 44039 SZENTE TIMOTHY 6294 CASE ROAD NORTH RIDGEVILLE OH 44039 SZENTE TIMOTHY 6294 CASE ROAD NORTH RIDGEVILLE OH 44034 TANLOR SRENDAL & BARRY A 39575 SULFE RD GRAFTON OH 44044 TANLOR RIDGENIS CAS SUSAN A 313175 INDIAN HOLLOW RD GRAFTON OH 44044 TANLOR RIDGENIS CAS SUSAN A 313175 INDIAN HOLLOW RD GRAFTON OH 44044 TANLOR RIDGENIS CAS SUSAN A 313175 INDIAN HOLLOW ROAD GRAFTON OH 44044 TANLOR RIDGENIS CAS SUSAN A 313175 INDIAN HOLLOW ROAD GRAFTON OH 44044 TANLOR RIDGENIS CAS SUSAN A 313175 INDIAN HOLLOW ROAD GRAFTON OH 44044 TANLOR RIDGENIS CAS SUSAN A 313175 INDIAN HOLLOW ROAD GRAFTON OH 44045 TANLOR RIDGENIS CAS SUSAN A 313175 INDIAN HOLLOW ROAD GRAFTON OH 44045 TANLOR RIDGENIS CAS SUSAN A 313175 INDIAN HOLLOW ROAD GRAFTON OH 44045 TANLOR RIDGENIS CAS SUSAN A 313175 INDIAN HOLLOW ROAD GRAFTON OH 44045 TANLOR RID								GRAFTON	ОН	44044
SULLINGER ROBERT W TRUSTEE	NGER ROBERT WITRUSTEE & MAREL ETAL							N RIDGEVILLE	ОН	44039
SWEENEY BETTY LOU								NORTH RIDGEVILLE	OH	44039
SZENTE TIMOTHY									ОН	44035
TAKACS CHARLES L 121 ARROW CT ELYRIA OH 44035 TAKACS CHARLES L 121 ARROW CT ELYRIA TAYLOR BRENDA L & BERRY A 39575 SUFE RD GRAFTON OH 44044 TAYLOR BRENDA L & BRARY A 39575 SUFE RD GRAFTON TAYLOR DENISIS C & SUSAN A 13159 INDIAN HOLLOW RD ELYRIA OH 44043 TAYLOR DENISIS C & SUSAN A 13175 INDIAN HOLLOW ROAD GRAFTON TAYLOR SUSAN A 13175 INDIAN HOLLOW ROAD GRAFTON OH 44044 TAYLOR DENISIS C & SUSAN A 14141 HIDDEN LANE GRAFTON TAYLOR SUSAN A 13175 INDIAN HOLLOW ROAD GRAFTON OH 44044 TAYLOR WOODS PROPERTIES P O BOX 215 ELYRIA TAYLOR WOODS PROPERTIES P O BOX 215 ELYRIA OH 44035 TAYLOR WOODS PROPERTIES P O BOX 215 ELYRIA TECHPARK 2000 PROPERTIES 424 MIDDLE AVE ELYRIA OH 44035 TECHPARK 2000 PROPERTIES 260 BURNS RD #100 ELYRIA TECHPARK 2000 PROPERTIES 424 MIDDLE AVE ELYRIA OH 44035 TEINES CARL D 419 W MAIN ST SEPOCE <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NORTH RIDGEVILLE</td> <td>OH</td> <td>44039</td>								NORTH RIDGEVILLE	OH	44039
TAYLOR BRENDA L & BERRY A 39575 SLIFE RD GRAFTON OH 44044 TAYLOR BRENDA L & BARRY A 39575 SLIFE RD GRAFTON TAYLOR DENNIS C & SUSAN A 13169 INDIAN HOLLOW RD ELVRIA OH 44035 TAYLOR DENNIS C & SUSAN A 13175 INDIAN HOLLOW RD GRAFTON TAYLOR SUSAN A 14141 HIDDEN LANE GRAFTON OH 44044 TAYLOR BURDAD & SUSAN A 14141 HIDDEN LANE GRAFTON TAYLOR SUSAN A 13175 INDIAN HOLLOW ROAD GRAFTON OH 44044 TAYLOR SUSAN A 13175 INDIAN HOLLOW ROAD GRAFTON TAYLOR WOODS PROPERTIES P O BOX 21S ELYRIA OH 44036 TAYLOR WOODS PROPERTIES P O BOX 21S ELYRIA TECHPARK 2000 PROPERTIES 424 MIDDLE AVE ELVRIA OH 44036 TAYLOR WOODS PROPERTIES P O BOX 21S ELVRIA TERNES CARL D ETAL 419 WEST MAIN ST SPENCER OH 44035 TECHPARK 2000 PROPERTIES 260 BURNS ND #100 ELVRIA THEIS JUDITH M 165 ARROW CT ELYRIA OH 44035 TERNES CARL D 419 W MAIN ST SPENCE	-			_					ОН	44035
TAYLOR DENNIS C & SUSAN A 13169 INDIAN HOLLOW RD ELYRIA OH 44035 TAYLOR DENNIS C & SUSAN A 13175 INDIAN HOLLOW RD GRAFTO								CETTO	ОН	44044
TAYLOR RICHARD J & SUSAN A 14141 HIDDEN LANE GRAFTON OH 44044 TAYLOR RICHARD J & SUSAN A 14141 HIDDEN LANE GRAFTON TAYLOR WOODS PROPERTIES P O BOX 215 ELYRIA OH 44044 TAYLOR WOODS PROPERTIES P O BOX 215 ELYRIA TECHPARK 2000 PROPERTIES 424 MIDDLE AVE ELYRIA OH 44036 TAYLOR WOODS PROPERTIES P O BOX 215 ELYRIA TECHPARK 2000 PROPERTIES 424 MIDDLE AVE ELYRIA OH 44036 TECHPARK 2000 PROPERTIES P O BOX 215 ELYRIA TECHPARK 2000 PROPERTIES 424 MIDDLE AVE ELYRIA OH 44035 TECHPARK 2000 PROPERTIES 260 BURNS RD #100 ELYRIA TERNES CARL D ETAL 419 WEST MAIN ST SPENCER OH 44275 TERNES CARL D 419 W MAIN ST SPENCER THOMAS CHRISTOPHER S 37690 EAGEL NEST DR GRAFTON OH 44041 THOMAS CHRISTOPHER S 37690 EAGEL NEST DR GRAFTON OH 44041 THOMAS CHRISTOPHER S 37690 EAGEL NEST DR GRAFTON OH 44044 THOMAS CHRISTOPHER S 37570 EAGEL NEST DR <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>OH</td> <td>44044</td>									OH	44044
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TAYLOR WOODS PROPERTIES									OH	
TECHPARK 2000 PROPERTIES 424 MIDDLE AVE ELYRIA OH 44035 TECHPARK 2000 PROPERTIES 260 BURNS RD #100 ELYRIA TERNES CARL D ETAL 419 WEST MAIN ST SPENCER OH 44275 TERNES CARL D 419 W MAIN ST SPENCER THES JUDITH M 165 ARROW CT ELYRIA OH 44035 THIES JUDITH M 165 ARROW CT ELYRIA THOMAS CHRISTOPHER S 37690 EAGLE NEST DR GRAFTON OH 44044 THOMAS CHRISTOPHER S 37690 EAGLE NEST DR GRAFTON THORNE BRANDON T & MARY B 37570 EAGLE NEST DR GRAFTON OH 44044 THORNE BRANDON T & MARY B 37570 EAGLE NEST DR GRAFTON THORNSBERRY MATTHEW D 3082 FIELDSTONE TRL AVON OH 44011 THORNSBERRY MATTHEW D & ANDREA L 3082 FIELDSTONE TRL AVON MEDIA OND GO GHOI INC TIME WARNER CABLE C/O TAX DEPT CHABLE TIVE INVESTORS GROUP LLC 583 MILLER RD AVON LAKE OH 44012 TIP INVESTORS GROUP LLC 583 MILLER RD AVON L TOMPKINS JACQUELYN S 311843 GRAFTON RD GRAF									OH OH	44044
TERNES CARL D ETAL 419 WEST MAIN ST SPENCER OH 44275 TERNES CARL D 419 W MAIN ST SPENCER THIES JUDITH M 165 ARROW CT ELYRIA OH 44035 THIES JUDITH M 165 ARROW CT ELYRIA THOMAS CHRISTOPHER S 37690 EAGLE NEST DR GRAFTON OH 44044 THOMAS CHRISTOPHER S 37690 EAGLE NEST DR GRAFTON THORNE BRANDON T & MARY B 37570 EAGLE NEST DR GRAFTON OH 44044 THORNE BRANDON T & MARY B 37570 EAGLE NEST DR GRAFTON THORNSBERRY MATTHEW D 3082 FIELDSTONE TRL AVON OH 44011 THORNEBRANDON T & MARY B 37570 EAGLE NEST DR GRAFTON MEDIA ONE OF OHIO INC TIME WARNER CABLE C/O TAX DEPT AVON OH 44011 THORNSBERRY MATTHEW D & ANDREA L 3082 FIELDSTONE TRL AVON TIP INVESTORS GROUP LLC S83 MILLER RD AVON LAKE OH 44012 TIP INVESTORS GROUP LLC 583 MILLER RD AVON L TOMESTORS GROUP LLC S83 MILLER RD AVON LAKE OH 44035 TOLLEY LONNE A SR SANDRA A 38166 CHEST										44036
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TRUSNIK ROSSLYN R & TRUSNIK EDWARD D 39114 CASE ROAD AVON OH 44011 TRUSNIK ROSSLYN R 39114 CASE ROAD AVON	N TOWNSHIP TRUSTEES	12043 AVON BELDEN RD	GRAFTON	OH	44044	TOWNSHIP OF EATON	12043 AVON BELDEN RD	GRAFTON	ОН	44044
					44011			AVON	ОН	44011
TOTAL	HANIK DONNA M	12770 GRAFTON RD	GRAFTON	ОН	44044	TURCHANIK DONNA M	12770 GRAFTON RD	GRAFTON	ОН	44044
								GRAFTON	ОН	44044
								GRAFTON	ОН	44044
			1					BRADENTON	FL	34205
		5504 COLORADO AVE	SHEEFIELD I AKE	ОН	44054			SHEFFIELD VILL	OH	44054
								GRAFTON	OH	44044

6

Owner Name	Owner Address	Owner City	Owner State	Owner Zip	Mail to Name	Mail to Address	Mail to City	Mail to State	Mail to Zip
VARIGROUP LTD	39405 TAYLOR PARKWAY	N RIDGEVILLE	OH	44039	VARIGROUP LTD	14250 S INDUSTRIAL AVE STE 104	MAPLE HEIGHTS	ОН	44137
VASILOFF LARRY	4345 CASE RD	AVON	OH	44011	VASILOFF LARRY	4345 CASE RD	AVON	ОН	44011
SCHAFER DEVELOPMENT COMPANY INC	2307 BEAVER CREEK	WESTLAKE	OH	44145	VILLAGE LAKE ESTATES	1507 LEAR INDUSTRIAL PKWY #1	AVON	ОН	44011
VONYA GEORGE & DEBRA	13198 INDIAN HOLLOW RD	GRAFTON	OH	44044	VONYA GEORGE & DEBRA	13198 INDIAN HOLLOW ROAD	GRAFTON	ОН	44044
WALDRON FANNIE R TRUSTEE	7090 CASE RD	NORTH RIDGEVILLE	OH	44039	WALDRON FANNIE RUTH	7090 CASE RD	N RIDGEVILLE	ОН	44039
WALMART REAL ESTATE BUSINESS TRUST	1000 CHESTNUT COMMONS DR	ELYRIA	OH	44035	WAL-MART PROPERTY TX DEPT MS 0555	P O BOX 8042	BENTONVILLE	AR	72716
WALTER LAWRENCE J & MARTHA A	12791 INDIAN HOLLOW RD	GRAFTON	OH	44044	WALTER LAWRENCE J & MARTHA A	12791 INDIAN HOLLOW RD	GRAFTON	ОН	44044
WALTHER COLLEEN R TRUSTEE	4411 CASE RD	AVON	OH	44011	WALTHER COLLEEN R TRUSTEE	9720 SMITH RD	LITCHFIELD	ОН	44253
WARNER SAMUEL EARL TRUSTEE	22516 MASTICK RD	FAIRVIEW PARK	OH	44126	WARNER SAMUEL E	22516 MASTICK RD	FAIRVIEW PARK	ОН	44126
WATKINS WILLIAM M & JODY L	6545 CASE RD	N RIDGEVILLE	OH	44039	WATKINS WILLIAM M & JODY L	6545 CASE RD	N RIDGEVILLE	ОН	44039
WATTEREDGE LLC	567 MILLER RD	AVON LAKE	OH	44012	WATTEREDGE-UNIFLEX INC	567 MILLER ROAD	AVON LAKE	ОН	44012
WEARSCH TIMOTHY W & WEARSCH VICTORIA S	5996 CASE RD	N RIDGEVILLE	OH	44039	WEARSCH TIMOTHY W	5996 CASE RD	N RIDGEVILLE	ОН	44039
WERNER WILLIAM D & SHIRLEY A TRUSTEES	6179 CASE RD	N RIDGEVILLE	OH	44039	WERNER WILLIAM D & SHIRLEY A	6179 CASE RD	N RIDGEVILLE	ОН	44039
WHALEN DAVID & CATHERINE					WHALEN DAVID B & CATHERINE L	11901 INDIAN HOLLOW RD	GRAFTON	ОН	44044
WHARY KIM W	11870 CASTLETON LN	GRAFTON	OH	44044	WHARY KIM W	11870 CASTLETON LANE	GRAFTON	ОН	44044
WHARY KIM W & JUDITH L	11870 CASTLETON LN	GRAFTON	OH	44044	WHARY KIM W & JUDITH L	11870 CASTLETON LN	GRAFTON	ОН	44044
WHITAKER DOLORES M TRUSTEE	6768 CASE RD	N RIDGEVILLE	OH	44039	WHITAKER DOLORES M TRUSTEE	6768 CASE RD	N RIDGEVILLE	ОН	44039
WHITING DANIEL S & DENISE M	C/O RESIDENCE INN	CLEVELAND	OH	44130	WHITING DANIEL S & DENISE M	C/O RESIDENCE INN	CLEVELAND	ОН	44130
WIECHOWSKI STANLEY & NANCY ANN	37871 W ROYALTON RD	GRAFTON	ОН	44044	WIECHOWSKI STANLEY & NANCY ANN	37871 W ROYALTON RD	GRAFTON	ОН	44044
WILLIAMS DAVID B & CHERIE L	13170 INDIAN HOLLOW RD	GRAFTON	OH	44044	WILLIAMS DAVID B & CHERIE L	13170 INDIAN HOLLOW RD	GRAFTON	ОН	44044
WILLIAMS DAVID B CHERIE L					WILLIAMS DAVID B CHERIE L	13170 INDIAN HOLLOW RD	GRAFTON	ОН	44044
WILSON GARY F & CAROL A TRUSTEE	38490 RIVER RIDGE RD	GRAFTON	OH	44044	WILSON GARY F & CAROL A TRUSTEE	38490 RIVER RIDGE RD	GRAFTON	OH	44044
WILSON VICKIES & WILSON DAVID K	3118 WHEATON DRIVE	AVON	OH	44011	WILSON VICKIE S	3118 WHEATON DRIVE	AVON	ОН	44011
ALLTEL OHIO	560 TERNES AVE	ELYRIA	ОН	44035	WINDSTREAM	C/O RASH #502/080	PLANO	TX	750260888
FIELDSTONE LAKES LTD	2 BEREA COMMONS #1	BEREA	OH	44017	WM THOMAS COMMUNITIES INC	2 BEREA COMMONS #1	BEREA	ОН	44017
WORLD WEST PROPERTIES LLC	11750 BEREA RD	CLEVELAND	OH	44111	WORLD WEST PROPERTIES LLC	11750 BEREA RD	CLEVELAND	ОН	44111
WUKIE THERESA M TRUSTEE	11885 GRAFTON RD	GRAFTON	OH	44044	WUKIE THERESA M TRUSTEE	11885 GRAFTON RD	GRAFTON	OH	44044
YEHLIK MICHELLE	544 STILL WATER BLVD	ELYRIA	OH	44035	YEHLIK MICHELLE	544 STILL WATER BLVD	ELYRIA	ОН	44035
ZACHARIAS TIMOTHY	40005 BANKS RD	GRAFTON	OH	44044	ZACHARIAS TIMOTHY	40005 BANKS RD	GRAFTON	ОН	44044

Attachment F

Erosion & Sediment Pollution Control Plan Typicals

CONSTRUCTION MUST BE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE. THIS SCHEDULE IS DESIGNED TO MINIMIZE SOIL EROSION AND SEDIMENTATION. THE CONTRACTOR MAY DEVATE IS ISJURITLY FROM THE STAGING OF PERMANENT SITE IMPROVEMENTS, BUT NO DEVATION SERVIN THE BRILDING PROPER OF EROSION AND SENDIFFACTION CONTROL MEASURES WILL BE ALLOWED.

NOTE: THE STAGING OF EARTHMONING ACTIVITIES FOR THIS PROJECT IS A GENERAL DESCRIPTION OF THE WORK REQUIRED. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH JOURNAYY STANDARDS, THE OHIO DEPARMENT OF ENVIRONMENTAL PROTECTION REGULATIONS, AND ALL OTHER PROPLICABLE FEDERING, STATE OR LOCAL REQUIRELENTS.

ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. CONSTRUCTION MAY START AT MULTIPLE POINTS. THE CONTRACTOR SHALL PLACE ALL BMPS FOR THAT SECTION OR AREA PRIOR TO THE START OF CONSTRUCTION.

AT LESST SCHE (7) DAYS BEFORE STARTING ANY SERVINE STREAMS THAT SCHING NO AREA PROKE TO THE START OF CONSTRUCTION.

AT LESST SCHE (7) DAYS BEFORE STARTING ANY SERVINE STREAMS, CHARLES, THE CORPANY SMALL HINKT ELL CONTRACTORS INVOLVED IN THOSE ACTIVITIES, ALL APPROPRIATE MINIOPPLL STATE & FEDERAL OFFICIALS, THE LOCAL COUNTY CONSERVATION DISTRICT, AND THE PERSONS TRUCTION SERVATION FOR THE CORPANY SERVED STREAMS. THE LOCAL COUNTY CONSERVATION AND SUPERMISORY PERSON RESPONSIBLE FOR THE ORDERING. THE MAIN LINE APPEAD AT LESST ONE COMPANY SERVED FOR THE CORPANY SOURCES WITH THE DESIGNED BURST. THE COMPANY SOURCES WITH THE DESIGNED BURST. THE COMPANY SOURCES WITH THE DESIGNED BURST. THE COMPANY SOURCES AND STREAMS AND IS QUALIFIED TO DESCRIP HE DESIGNED SHOPS AND IS QUALIFIED TO DESCRIP HE DESCRIP

BEFORE IMPLEMENTING ANY REVISIONS TO THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN OR REVISIONS TO OTHER PLANS WHICH MAY AFFECT THE EFFECTIVENESS OF THE APPROVED E&S PLAN, THE OPERATOR MUST RECEIVE APPROVAL OF THE REVISIONS FROM THE APPROPARIATE CONSERVATION DISTRICT.

THE CONTRACTOR SHALL REMOVE FROM THE SITE, RECYCLE, OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH OHO PAYS SOLD WASTE MANAGEMENT REQULATIONS AT OAC CHAPTER 3745. THE CONTRACTOR SHALL NOT LLEGALLY DWIN, OR DISPAGRE MAY PULLIDING MATERIAL OR WASTES AT THE SITE. BEFORE DISPOSING OF SOLL OR RECEIVED BERROW FOR SITE AND SHALL PROPERLY SHALL PROPERL

THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN INCLUDING THE SOIL EROSION CONTROL DRAWINGS AND NARRATIVE SHALL BE AVAILABLE ON SITE AT ALL TIMES DURING EARTH DISTURBANCE.

SEQUENCE OF BMP INSTALLATION AND REMOVAL DURING PIPELINE CONSTRUCTION

- STAKE/FLAG DISTURBED RIGHT-OF-WAY EXTENTS, CLEARLY IDENTIFYING WETLAND AND STREAM EDGES AND BUFFERS. INSTALL
 SIGNS OR OTHER MEANS TO IDENTIFY IMPORTANT PROJECT ATTRIBUTES SUCH AS APPROVED ACCESS ROADS, NO REFUELING ZONES,
- SCHOOLTHUS LY. DISTRIBED RIGHTO—FUN ZUTINIST, CARAY USENTING WE FLAND, AND STREME DEES AND BUFFERS. NOTALL SIGNS OR OTHER MEANS TO DENTIFY IMPORTANT PROJECT ATTRIBUTES SUCH AS APPROVED ACCESS ROADS, NO REFUELING ZONES, WELLAND, STEAM BOUNGS.

 2. SOFEDIALE A PRECONSTRUCTION CONFERENCE AS DESCRIBED ABOVE AND PROVIDE AT LEAST THREE (2) WORKING DAYS, SEVENTY-TWO (72 HOURS) NOTICE TO THE HOUR DAY PROPE TO COMMENCEMENT OF SITE GRADING WORK. NOT. IN THE WORK OF THE

PERMANENT STABILIZATION - ALTERNATE FINAL RESTORATION NOTE

A. <u>Limiting exposed areas</u> — "Earth disturbance activities shall be planned and conducted to minimize the extent and duration of the disturbance."

THE LENGTH OF TIME FOR CONSTRUCTING ACCESS ROADS, UTILITY LINE TRENCHING, TRENCH BACK-FILLING, FINAL GRADING, AND CLEANUP SHOULD BE KEPT TO A MINIMUM. GOOD PLANNING AND SCHEDULING OF THE VARIOUS UTILITY CONSTRUCTION ITEMS, TOCKTHEW MITH TIMELY AVAILABILITY OF MATERIALS, ADEQUATE EQUIPMENT, AND ADEQUATE MANPOWER, WILL HELP REDUCE THE TIME OF EXPOSURE OF DISTURBED LAND.

REDUCE THE TIME OF EXPOSITE OF DISTURBED LAND.

LARGE DAMERTS STEEL PPELLINES WITH WEIDED JOINTS WERER THE PIPE, SONTS ARE WEIDED WHILE THE PIPE IS QUIT OF THE TRENCH USUALLY REQUIRE A FARRY LONG LIBRIGH OF OPEN PREJIENE TRENCH. THE OTAL TIME FROM TRENCH EXCAVATION TO PLACEMENT OF BASKFILL FOR IS THE STEEL OF STEEL THE TOTAL TIME FROM THE OWNER THAT THE STEEL OF THE

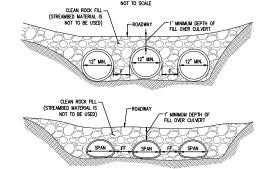
NO SOIL IS TO BE HAULED OFF SITE WITHOUT A SEPARATE EROSION AND SEDIMENTATION CONTROL PLAN REVIEWED FOR ADEQUACY BY THE OHIO EPA OR THE LOCAL COUNTY CONSERVATION DISTRICT AS APPROPRIATE.

INSPECTION — ALL BMPS SHOULD BE INSPECTED AFTER EACH MEASURABLE RAINFALL RUNOFF EVENT AND ON A WEEKLY BASIS. MAY NECESSARY REPAIRS MUST BE MADE MEASURABLE FAINFALL RUNOFF EVENT AND EPICIENT OPERATION.

General Notes:

- BMPS SHOWN MAY NEED TO BE FIELD ADJUSTED TO FIT ACTUAL CONDITIONS. IN SOME CASES, THE NEXT LARGER BMP MAY BE NEEDED DUE TO UNFORESEN CONDITIONS. ADDITIONAL BMPS MAY BE REQUIRED DHEN THAN THOSE SHOWN. THE CONTRACTOR SHALL TAKE WHATEVER MESSINES NECESSARY TO PREVENT SLIT FROM LEAVING THE STEE.
- ALL PIPES/BRIDGES ARE FOR CONSTRUCTION ONLY AND THE SITE OF SAID PIPES/BRIDGES SHALL BE RESTORED TO ORIGINAL TOPOGRAPHY AND STABLUZED WITHIN FIVE (5) DAYS AFTER TERMINATION OF ITS INTENDED USE OR AT THE END OF THE ONE (1) YEAR PERIOR, WINHEVER DOCUMES FIRST.

Temporary Stream Crossing With Multiple Pipes Detail



CROSS-SECTIONS

- NOTES:

 MILTIPLE PPES AND MILTIPLE SPAN BRIDGES AND CULVERTS WHICH MAY TEND TO COLLECT DEBRIS, CONTRIBUTE TO THE
 FORMATION OF ICE JAMES AND INCREAS: FEAD LOSSES SHALL BE AVOIDED TO THE MAXIMUM EXTENT PRACTICABLE CROSSINGS OF
 LESS THAN TO FEET SHALL BE BY ONE SPAN, EXCEPT MERE CONDITIONS WARE IT MEPRICALL TO AFFECT THE CROSSING
 WITHOUT MULTIPLE SPANS.
- # INITIAL INCLUREE SPANS.

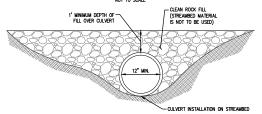
 PROVIDE SO' STRUCKOCKS TO CROSSING ON BOTH SIDES OF STREAM CHANNEL PIPES SHALL EXTEND BEYOND THE TOE OF THE ROJONAN',

 ROUNGY FROM THE ROJONAY SHALL BE DIVERTED OFF THE ROJONAY AND INTO A SEDIMENT REMOVAL BMP BEFORE IT REACHES THE ROJO APPROACH TO THE CROSSING.

- MAINTENANCE

 1. TEMPORARY STREAM CROSSINGS SHALL BE INSPECTED ON A DALY BASIS.
 2. DAMAGED CROSSINGS SHALL BE REPARED WITHIN 24 HOURS OF THE INSPECTION AND BEFORE ANY SUBSEQUENT USE.
 3. SEDMENT DEPOSITS ON THE CROSSING OR ITS APPROACHES SHALL BE REJOYED WITHIN 24 HOURS OF THE INSPECTION.
 4. AS SOON AS THE TEMPORAY COSSING IS NO LOWER NEEDED, IT SHALL BE REJOYED. ALL MATERIALS SHALL BE DISPOSED OF PROPERLY AND DISTURBED AREAS STABILIZED.

Temporary Stream Crossing With Single Pipe Detail



CROSS-SECTION VIEW

- NOTES:

 1. PROVES OF STABILIZED ACCESS TO CROSSING ON BOTH SIDES OF STREAM CHANNEL.

 2. PIPES SHALL EXTEND BEYOND THE TOE OF THE ROADWAY.

 3. RUNGET FROM THE ROADWAY SHALL BE DIVERTED OFF THE ROADWAY AND INTO A SEMIMENT REMOVAL BMP BEFORE IT REAGHES THE ROAD APPROACH TO THE CROSSING.

- MAINTENANCE:

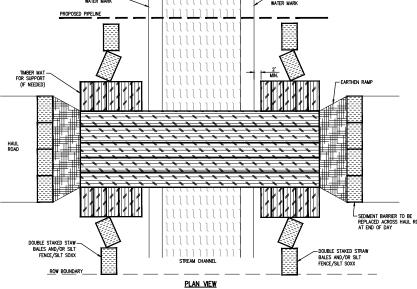
 1. TEMPORARY SIREAM CROSSINGS SHALL BE INSPECTED ON A DALY BASIS.

 2. DAMAGED COSSINGS SHALL BE REPAIRED WITHIN 24 HOURS OF THE INSPECTION AND BEFORE ANY SUBSEQUENT USE.

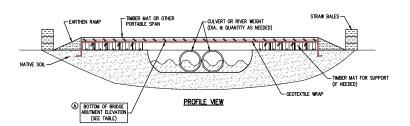
 3. SEDIMENT DEPOSITS ON THE CROSSING OR ITS APPROACHES SHALL BE REMOVED WITHIN 24 HOURS OF THE INSPECTION.

 4. AS SOON AS THE TEMPORARY CROSSING IS NO LONGER NEEDED, IT SHALL BE REMOVED, ALL MATERIALS SHALL BE UISPOSED OF PROPERLY AND DISTURBED AREAS STRAILEZD.

luuuuuu



Timber Mat Bridge Detail



NOTES:

1. STRAM BALES TO BE PLACED ACROSS BRIDGE ENTRANCE EVERY NICHT.

2. THE CONTRACTOR HAS THE O'PTION TO INSTALL PIPES OR BRIDGE TO CROSS STREAM. IF USING BRIDGE, CULVERTS MAY BE USED TO STABILIZE BRIDGE. THE CULARITY AND DIAMETER OF CULVERTS SHALL BE AS NEEDED TO STABILIZE THE BRIDGE AND TO MEET THE MINIMAL BRIDGE LEVANION SHOWN IN TABLE BLOW. IF USING PIPES, THE DIAMETER AND QUANTITY OF PIPES SHALL BE AS SHOWN IN TABLE BELOW.

3. CONTRACTOR HAS THE O'PTION TO CHOOSE BETWEEN PUMPING OR FLUMING STREAM FLOW FOR TRENCH CROSSING.

E&SPC TYPICAL DETAIL SHEET 1

Fax 570 688 9768

REVISIONS DATE AVON LAKE GAS ADDITION PROJECT PROJECT NO. CARLISLE, EATON & LAGRANGE TOWNSHIPS AEJ NRG-1007 AVON, AVON LAKE, ELYRIA & SJC NORTH RIDGEVILLE CITIES SHEET NO. 12.15.14 LORAIN COUNTY 83 of 88 OHIO AS NOTED 3355 Route 611, Suite 1 Hanover Bartonsville, PA 18321-7822 570 688 9550 Engineering Associates Inc

- GENERAL NOTES:

 1. ALL BUP'S SHALL BE INSPECIED AFTER EACH PRINGE EVENT AND ON A MEDILY BASIS. ANY
 NECESSARY PERAPS MIST BE MADE MANDLATELY TO ENSURE EFFICITIVE AND EFFICIENT OPERATION.

 2. BUP'S SHOWN MAY NEED TO BE FIELD ADJUSTED TO FIT ACTUAL CONDITIONS.

 3. IN SIGNE CASS, THE MEST LARGER BUP MAY BE REEDED LUE TO UNFORESEEN CONDITIONS.

 4. AUDITIONAL BUP'S MAY BE REQUIRED OTHER THAN THOSE SHOWN.

 5. THE CONTRACTOR SHALL TAKE WHATEVER MEASURES NECESSARY TO PREVENT SEDIMENT FROM
 LEAWING THE SITE.

Revegetation Best Management Practices:

AFTER EARTH DISTURBANCE ACTIVITY IS COMPLETED, THE DISTURBED AREA MUST BE REVECEITATED. THE VECETATIVE COVER MUST BE A UNIFORM 8SS PERENNAL VECETATIVE COVER, WITH A DENSITY CAPABLE OF RESSTING ACCELERATED EROSION AND SEDMENTATION. ANOTHER OPTION IS TO USE AN ACCEPTABLE BUT MADE PREPARED AND ANNUESS. SCHEDEFTED ENSORS HOW AS DEMENTATION.

1. SEED MATURES. - STANDARD SEED MUTTERS, THAT HAVE BEED SHOWN TO BE FETTION. IN STANDARD SEMENTATION. AND STANDARD SEMENTATION. AND STANDARD SEMENTATION. AND STANDARD SEMENTATION STANDARD SEMENTATION. SIGNARD SEMENTATION STANDARD SEMENTATION. SIGNARD SEMENTATION SEMENTATION. AND STANDARD SEMENTATION. SEMENTATION SEMENTATION. SEMENTATION SEASON. AND CERMANTON SEASON.

- B. IF THE AREA DE RYGETATED IS A STEEP SLOPE (2-3-1), A STEEP SLOPE MIXTURE SHOULD BE USED. OTHER LIMITATIONS, SUCH AS DROUGHTY OR SATURATED CONDITIONS, ACID SOLIS, AND SHAPED AREAS SHOULD ALSO BE ADDRESSED BY THE PROPORED SEEDING PLAN (SEE TABLES 13 THOUGH 16).

 C. WIESELYER TALL RESCUE IS PROPOSED, AM ENDOPHYTE FREE VARIETY (E.G. JOHNSTONE, BARCEL, OR FESTORINA) SHOULD BE
- JUSTA

 SEED MIXTURES SHOULD INCLUDE A LEGIME. WHEN USED IN AREAS DIFFICULT TO MEGTATE, LEGIME SEED LOTS SHOULD

 CONTAIN A CERTAIN AMOUNT OF HARD SEED (SEE TABLE 13 FOR RECOMMENDED SPECIFICATIONS). LEGIME SEED MUST BE

 ROCULATED IN ORDER TO FORM MOULES ON THE ROTS WHICH FAX MANDSHERIC NITROGEN. USE ONLY SEED MHICH HAS

 BEEN RESHLY AND PROPERLY NOCULATED.

 WHAN SEASON ROSSESS MAY HAVE SOME LIMITATIONS FOR USE IN EROSION CONTROL AND MUST BE CONSIDERED WHEN

 SELECTING A SEED MIXTURE, THEY GROW MUCH MORE SOUNT DURING THE SPRING AND FALL MONTHS. THEY TEND TO FORM

 BUNCHES, RATHER THAN 500. THEREFORE, THE COVERAGE MAY NOT BE AS UNKNOWN. AS DESERDED.

TABLE 13 PLANT TOLERANCES OF SOIL LIMITATION FACTORS

		TOLERATES			MI				ONS (3)	
					0		READY	HARD	TOTAL	
	GROWTH	WET	DRY	LOW	ACID SOIL	PURITY	GERM	SEED	GERM	SEEDS/16
SPECIES	HABIT	SOIL	SITE	FERTILITY	(pH 5-5.5)	(%)	(%)	(%)	(%)	(1,000s)
WARM-SEASON GRASSE	S									
DEERTOUNGUE	BUNCH	YES	YES	YES	YES	95	75		75	250
WEEPING LOVEGRASS	BUNCH	NO	YES	YES	YES	97	75		75	1,500
SWITCHGRASS ④	BUNCH	YES	YES	YES	YES		(60	PLS)		390
BIG BLUESTEM	BUNCH	NO	YES	YES	YES		(60	PLS)		150
COOL-SEASON GRASSES	S									
TALL FESCUE	BUNCH	YES	NO	YES	NO	95	80		80	227
REDTOP	SOD	YES	YES	YES	YES	92	80		80	5,000
FINE FESCUES	SOD	NO	NO	YES	NO	95	80		80	400
PERENNIAL RYEGRASS	BUNCH	YES	NO	NO	NO	95	85		85	227
ANNUAL RYEGRASS	BUNCH	YES	NO	YES	NO	95	85		85	227
KENTUCKY BLUEGRASS	SOD	NO	NO	NO	NO	85	75		75	2,200
REEDCANARYGRASS	SOD	YES	YES	YES	NO	95	70		70	520
ORCHARDGRASS	BUNCH	YES	YES	YES	YES	95	80		80	654
TIMOTHY	BUNCH	YES	NO	YES	YES	95	80		80	1,230
SMOOTH BROMEGRASS	SOD	NO	YES	YES	NO	95	80		80	136
Legumes (5)										
CROWNVETCH	SOD	NO	YES	YES	NO	98	40	30	65	120
BIRDSFOOT TREFOIL ⑥	BUNCH	YES	NO	YES	YES	98	60	20	80	400
FLATPEA	SOD	NO	NO	YES	YES	98	55	20	75	10
SERECIA LESPEDEZA	BUNCH	NO	YES	YES	YES	98	60	20	80	335
CEREALS										
WINTER WHEAT	BUNCH	NO	NO	NO	NO	98	85		85	15
WINTER RYE	BUNCH	NO	NO	YES	YES	98	85		85	18
SPRING OATS	BUNCH	NO	NO	NO	NO	98	85		85	13
SUNDANGRASS	BUNCH	NO	YES	NO	NO	98	85		85	55
Japanese Millet	BUNCH	YES	NO	YES	YES	98	80		80	155

- GROWTH HABIT REFERS TO THE ABULTY OF THE SPECES TO ETHER FORM A DEBUS SOO BY
 VECETATIVE MEANS (STOLONS, RHIZZMES, OR ROOTS) OR REMAIN IN A BUINCH OR SINCE PLANT
 FORM. IF SEPECH HEAVILY WEDUIGH, EVEN BUINCH FORMER'S CAN PROJUCE A VERY DOING STAND,
 THIS IS SOMETIMES CALLED A SOO, BUT NOT IN THE SENSE OF A SOO FORMED BY VEDETATION
 MEANS.
- ② ONCE ESTABLISHED, PLANTS MAY GROW AT A SOMEWHAT LOWER PH, BUT COVER GENERALLY IS ONLY ADEQUATE AT PH 6.0 OR ABOVE.
- OMINION SECULOTS ARE TRULY MINION, AND SEED OTS TO BE USED FOR REVEGETATION PRIVOSES SHOULD EQUAL OF EXCEED THESE STANDARDS. THUS, DETRYTORING GRASS SHOULD FOUND AND STANDARD SHOULD SEED THESE STANDARDS. THUS, DETRYTORING GRASS SHOULD AND STANDARD SHOULD SHOULD
- SWITCHGRASS SEED IS SOLD ONLY ON THE BASIS OF PURE LIVE SEED (PLS).
- BIRDSFOOT TREFOIL IS ADAPTED OVER THE ENTIRE STATE, EXCEPT IN THE EXTREME SOUTHEAST WHERE CROWN AND ROOT ROTS MAY INJURE STANDS.

TABLE 14. RECOMMENDED PERMANENT SEED MIXTURES

COOL AND WARM SEASON GRASSES							
MIXTURE			SEEDING RATE				
NUMBER	SEASON	SPECIES	lb,/ac.				
		TALL FESCUE*,OR	79				
		FINE FESCUE,PLUS	46				
1	COOL	REDTOP,OR	4				
		PERENNAIL RYEFRASS,PLUS	19				
		BIRDSFOOT TREFOIL	8				
2	COOL	BIRDSFOOT TREFOIL,PLUS	8				
	COOL	TALL FESCUE*	40				
		ORCHARDGRASS,OR	26				
3	COOL	SMOOTH BROMEGRASS,PLUS	33				
		BIRDSFOOT TREFOIL	8				
		FLATPEA,PLUS	27				
4	WARM	TALL FESCUE*,OR	26				
		PERENNIAL RYEGRASS	25				
5	WARM	DEERTONGUE,PLUS	21				
,	WALKIN	BIRDSFOOT TREEFOIL	8				
		SWITCHGRASS,OR	15				
6	WARM	BIG BLUESTEM,PLUS	15				
		BIRDSFOOT, TREFOIL	8				

* LISE ONLY ENDOPHYTE TREE VARIETIES SLICH AS JOHNSTONE RARCEL OR EESTORIN

	TEMPORARY SEEDING	SPECIFICATIONS	
SEEDING DATES	SPECIES	LB. PER 1,000 SQ. FT.	PER ACRE
	OATS	3	4 BUSHELS
	TALL FESCUE	1 1	40 LB
MARCH 1 TO	ANNUAL RYEGRASS	1	40 LB
AUGUST 15	PERENNIAL RYEGRASS	1	40 LB
A00031 10	TALL FESCUE	1	40 LB
	ANNUAL RYEGRASS	1	40 LB
	•		
	RYE	3	2 BUSHELS
	TALL FESCUE	1	40 LB
	ANNUAL RYEGRASS	1	40 LB
AUGUST 1 TO	WHEAT	3	2 BUSHELS
NOVEMBER 1	TALL FESCUE	1	40 LB
HOTEMOLIN I	ANNUAL RYEGRASS	1	40 LB
	PERENNIAL RYEGRASS	1	40 LB
	TALL FESCUE	1	40 LB
	ANNUAL RYEGRASS	1	40 LB
NOVEMBER 1	USE HEAVY STRAW-MULCH & D	ORMANT SEEDING, WO	OOD CHIPS
TO SPRING	OR PERMANENT SODDING.		

TABLE 16. RECOMMENDED SEED MIXTURES FOR STABILIZING DISTURBED AREAS

	SEED MIXTURE
	(SELECT ONE
STIE CONDITION	MIXTURE)
CUT SLOPES AND FILLS (NOT MOWED)	
WELL-DRAINED	2,4, OR 6
VARIABLE DRAINAGE	2
CUT SLOPES AND FILLS (MOWED)	1
CUT SLOPES AND FILLS(GRAZED/HAY)	1,2,0R 3
GULLIES AND ERODED AREAS	2 OR 6
EROSION CONTROL BMPS	
CHANNELS, DRAINAGE DITCHES, TRAP	1 OR 2
EMBANKMENTS, ETC.	
FOR HAY OR SILAGE	2 OR 3
RIGHT-OF-WAY	
WELL-DRAINED	4 OR 6
VARIABLE DRAINAGE	2
WELL-DRAINED AREAS FOR GRAZING/HAY	2 OR 3
STRIP MINED AREAS	
SPOILS, WASTE AREAS, FLY ASH, SLAG, ETC.	2,4,0R 5
(LIME TO SOIL TEST)	l
FOR GRAZING/HAY	2,3,0R 6
AMENDMENTS A SOIL TEST IS RECOMMENDED TO DETERMI	NE THE TYPE AND

- Soil amendments. A soil test is recommended to determine the type and rate of application of soil amendments, especially when the county soil survey indicate the presence of soils with low fertility or a ph ranking below 5.5 it is also recommended where difficulties have been encountered in establishing a good COVER (E.G. ABANDONED MINED LANDS). THE COSTS OF SOIL TESTING ARE MINIMAL AND CAN RESULT IN HUGE SAVINGS IN SOIL AMENDMENTS AND THE COSTS OF RE-SEEDING. IN THE ABSENCE OF A SOIL TEST:
- A. THE LIMING RATE SHOULD BE AT LEAST 4 TO 5 TONS/ACRE. FOR TEMPORARY SEEDING, A LIMING RATE OF 2 TONS/ACRE IS ACCEPTABLE. NO MORE THAN 4 TONS/ACRE SHOULD BE ADDED TO AGRICULTURAL LAND.
- B. FERTILIZER SHOULD BE APPLIED AT THE RATE OFF 100LB N, 200 LB. OF P205, AND 200 LB. OF K20 PER AGRE (E.G. 1000 LB./AGRE OF 10-20-20 FERTILIZER). FOR TEMPORARY SEEDING, A RATE OF 50 LB. N, 50 LB. P205, 50 LB. K20 PER AGRE(E.G. 500 LB. OF 10-10-10 FERTILIZER) IS AGCEPTABLE.
- MILLING-MILLO! ABSIDES FAINTAL IMPACT, INFECESS THE PART OF INFLIENTATION REDUCES SILL MIGHSTRE LOSS UP TO EMPERATION, MODERNES SILL TIMEFRATURES, PROVIDES A SUITABLE DIVINOUMENT FOR GERMANITON, AND PROTECTS THE SEEDING FROM INTERES SUINALITY ALL SEEDED AREAS SHOULD BE WALGED MULES THE SEED MUTTRE! OR FILL ON THE SEED MUTTRE! OR FILL ON THE SEED MUTTRE! OR FILL ON THE SEED MUTTRE! OR FILL OF THE SEED MUTTRE! OR FILL OF
- B. WOOD CELLULOSE IS NOT RECOMMENDED FOR STEEP SLOPE (≥ 1:3 H:V) APPLICATIONS, WHERE USED, THE MINIMUM RATE OF APPLICATION SHOULD BE 2000 LB./ACRE.
- C. EROSION CONTROL BLANKETING SHOULD BE CONSIDERED FOR STEEP SLOPE (≥ 1:3 H: V) SITUATIONS AND IN CRITICAL AREAS (E.G. STREAM CROSSINGS, ADJACENT WETLANDS,

	TABLE 17. MULCH APPLICATION RATES								
MUL	ж	AP	PLICTION RATE	(MIN.)					
TYP	E	PER ACRE	PER 1,000 sq.ft.	PER 1,000 sq.yd.	NOTES				
STRA	w	2 TONS	90 lb.	810 lb.	EITHER WHEAT OR OAT STRAW,FREE OF WEEDS, NOT CHOPPED OR FINELY BROKEN				
на	′	2 TONS	90 lb.	810 lb.	TIMOTHY, MIXED CLOVER AND TIMOTHY OR OTHER NATIVE FORAGE GRASSES				
WOO		2,000 lb.	46 lb.	414 lb.	DO NOT USE ALONE IN WINTER DURING HOT AND DRY WEATHER, OR ON STEEP SLOPES(>3:1)				
WOOD (HIPS	6 TONS			MAY PREVENT GERMINATION OF GRASSES AND LEGUMES				

NOTE: After soil Ph analysis is performed, a suitable mix shall be determined from the tables.

Upland Seed Mix Option:

SHOWY NORTHEAST NATIVE MILDFLOWER MIX: ERNMX-153 ERNST CONSERVATION SEED 9006 MERCER PIKE MEADVILLE, PA 16335-9299 MCDUNILE, PA 1033-9299
IELEPHONE: 800-873-3321 / 814-336-2404
FAX: 814-336-5191
EMAIL: emaffentseed.com
APPLICATION RATE: 15 ibs/octe (BULK), THOROUGHLY MIXED WITH ANNUAL RYEGRASS (LOLIUM

MULTIFLORUM) AT 10 Ibs/acre.
NOTE: STRAW MULCH LIGHTLY AND COVER WITH JUTE MAT. INSTALLED PER MANUFACTURER'S SPECS.

RCENT BY NO. OF SEEDS	SCIENTIFIC	COMMON
(NOT WEIGHT)	NAME	NAME
15%	ANDROPOGON SCOPARIUS	LITTLE BLUESTEM
10%	BOUTELOUA CURTIPENDULA	SIDE OATS GRAMA
10%	ELYMUS VILLOSUS	SILKY WILD RYE
10%	SORGHASTRUM NUTANS	INDIAN GRASS
7%	CHAMAECRISTA FASCICULATA	PARTRIDGE PEA
6%	HELIOPSIS HELIANTHOIDES	OX EYE SUNFLOWER
5%	ANDROPOGON GERARDII, NIAGARA	NIAGARA BIG BLUESTEM
5%	PENSTEMON DIGITALIS	TALL WHITE BEARD TONGUE
5%	RUDBECKIA HIRTA	BLACK EYED SUSAN
5%	Penstemon digitalis Rudbeckia Hirta Senna Hebecarpa	WILD SENNA
4%	ASTER PRENANTHOIDES/NOVIBELGI	ZIGZAG ASTER/NEW YORK ASTER
	MIX	MIX
3%	HYPERICUM PYRAMIDATUM	GREAT ST. JOHN'S WORT
2.5%	ZIZIA AUREA	GOLDEN ALEXANDERS
2%	ASCLEPIAS SYRIACA	COMMON MILKWEED
2%	ASCLEPIAS TUBEROSA	BUTTERFLY MILKWEED
2%	TRADESCANTIA OHIOENSIS	OHIO SPIDERWORT
1.5%	ASTER NOVAEANGLIAE	NEW ENGLAND ASTER
1.5%	LUPINIUS PERENNIS	WILD BLUE LUPINE
1.5%	MONARDA FISTULOSA	WILD BERGAMOT
1%	BAPTISIA AUSTRALIS	BLUE FALSE INDIGO
1%	LESPEDEZA CAPITATA	ROUNDHEAD LESPEDEZA

Wetland Seed Method :

- . WETLAND AREAS SHALL BE TOPSCILED WITH THE NATURAL TOPSCIL. AN ANNUAL RYE MIX SHALL BE PLANTED IN THE INTERIM UNTIL THE NATURAL PLANTS INUNDATE THE DISTURBED
- AREAS.

 2. NO LIME OR FERTILIZER SHALL BE USED IN WETLAND AREAS.

Streambank & Wetland Seed Mix Option:

"RETENTION BASIN FLOOR SEEDING FOR WILDLIFE & PLANT DURENSTY MIX — ERNAX-127" APPLED AT A SEEDING RATE OF 15 BULK LISS FER ACRE OR 1/3-1/2 LISS FER LOOD FTZ, SENN ALONG WITH 10 LISS/ACRE OF CREAL ANTS (APPLA SATIVA) OR GRAIN (CEREAL) RYE (SECULE CEREAL) AVAILABLE FROM:
FROM: ERNST CONSERVATION SEEDS
8006 MINERS FIXE:
9006 MINERS FIXE:
9006 MINERS FIXE:
9006 MINERS FIXE:
9007 MINERS FIXE:
9007 MINERS FIXE:
9007 MINERS FIXE:
9008 MINERS FIXE:

General Construction Notes:

EROSION CONTROL BLANKET FOR STEEP SLOPES

STEEP SLOPES THAT ARE DISTRIBUTED FOR UTILITY LINE CONSTRUCTION SUCH AS ROADWAY/RAUROAD CUT OR EMBANMENT SLOPES GREATER THAN OR EQUAL TO 3 HORIZONTAL TO 1 VERTICAL SHOULD BE PROTECTED AGAINST EROSON WHILE ENGINE CONTROL BLANKETS OR MAIN SUITABLE FOR THE ESTRUSHMENT OF VEGETATION. THE EROSON CONTROL BLANKETS SHOULD BE INSTALLED IMMEDIATELY AFTER THE SOL AMEDIMENTS AND THE SETS ARE APPLIED. EROSON CONTROL BLANKETS SHOULD BE NOTALLED ON THE PROTECTION OF STREAMS SHOULD ALSO BE INSTALLED ON OTHER STEEP WORLD-ONES WHERE EROSON MILE BE A PRODED WITH VECTORING SETS ESTALLED

THE INSTALLATION PROCEDURE SHOULD COMPLY WITH THE MANUFACTURER'S RECOMMENDATIONS, INCLUDING SLOPE PREPARATION, ORIENTATION, TRENOHING, OVERLAP AND SPACING OF STAPLES.

STABILIZATION DURING NON-GROWING SEASONS

ALL UTILITY INEC CONSTRUCTION SHOULD BY PLANNED FOR COMPLETION MITHIN THE RECOMMENDED DATES FOR THE APPLICATION OF PERMANENT SEEDING AND ESTABLISHMENT OF PERMANENT VEGETATINE COPER. MOREORY, WHICH MERCENCY UTILITY LIKE CONSTRUCTION MASS HE DONE AND IS COMPLETED DURING A NON-BROWNE SEASON (INNERTINE, CIC.), WITEINS STABLIZATION BING'S MELICIAL THE RATE OF THE OTHOR FOR FOR AGE IS RECOMMENDED. THE BING'S SHOULD BE OFFICIAL DELIVERY (INJUSS SHOW COMPRED) TO DESIRTY AREAS THAT BECOME BARE.

THESE BARE AREAS SHOULD BE COVERED WITH A PROPERLY INSTALLED EROSION CONTROL BLANKET. ALL TEMPORARY EROSION AND SEDIMENT POLLUTION CONTROLS MUST BE MAINTAINED UNTIL <u>PERENNIAL</u>, VEGETATION IS ESTABLISHED.

A PRE-WINTER STABILIZATION MEETING NEEDS TO BE HELD IF THE PROJECT IS TO REMAIN OPEN THROUGH WINTER. PLANNING SHOULD BE SUCH THAT THE STIE IS ABLE TO BE SEEDED DURNO THE GROWING SEASON. IF SEEDING IS NOT POSSIBLE, THEN THE STIE WILL HAVE TO BE MULCHOOLD AND POSSIBLY ORDMAN'S ESEED.

PERMANENT STABILIZATION

PERMANENT CONTROL BMP'S SUCH AS SLOPE BREAKERS/INTERCEPTOR DIKES/WATER BARS, ETC., SHOULD BE IN PLACE PRIOR TO APPLICATION OF SOIL ARROMANIS, SEND AND MULCH. THE OBJECTIVE SHOULD BE TO GRITAIN FERENMAN, VEGETATIVE COVER THAT IS RESISTANT TO EROSION. THE ACCEPTABLE STANDARD FOR VEGETATIVE STABILIZATION IS A UNIFORM 85% COVER.

RESPONSIBILITY FOR E&S CONTROL FACILITIES:

DURING IMPROVEMENTS CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION, STABILIZATION & MAINTENANCE OF ALL SITE EROSION & SEDMENTATION CONTROL FACILITIES. AFTER CONTRACTOR INVOLVEMENT CEASES, RESPONSIBILITY SHALL REVERT TO THE PROJECT OMNER.

SEDIMENT RE-DISTRIBUTION

WASHING OF FILTER STONE AND RE-DISTRIBUTION OF WET SEDMENT FROM BASINS, TRAPS OR OTHER FACILITIES SHALL ONLY BE PERMITED LIPHLI, OF AN EFFECTIVE SEDMENT FILTER FACILITY, SLIT LABOR KNINGF SHALL NOT BE ALLONED TO FLOW DIRECTLY TO UMPROTECTED CATCH BASINS, POWER, ADMACENT PROFERIES, ROADS OF WILLIAMOS.

OFF-SITE BORROW OR DISPOSAL AREAS

IT IS INTENDED THAT ANY BORROW OR DISPOSAL AREAS FOR THIS SITE SHALL BE ACQUIRED FROM OR DISPOSED OF ON THIS SITE. THE CONTRACTOR SHALL UTILIZE THIS APPROVED PLAN.

ASSURANCE OF DESIGN PERFORMANCE

THE SPECIFICATIONS AND REQUIREMENTS OF THE PROJECT PLANS, NARRATIVE AND SPECIFICATION ARE THE MINIMUM ACCEPTABLE CONSTRUCTION CRITERIA FOR THIS PROJECT.

DURING SITE DEVELOPMENT CONSTRUCTION, ALL TEMPORARY EROSON AND SEDMENTATION CONTROL FACULTES MUST BE CHECKED BY THE CONTRACTOR AFTER EACH RUNGEF EVENT AND ON A WEEKLY BASS. ANY DAMAGE TO THE FACULTES MUST BE REPARED MINEUMETRY, ANY LOST SOIL MATERIAL SHALL BE RECOVERED, IF POSSIBLE. WASHED OUT LAWN OR SLOPE AREAS MUST HAVE TOPSOIL REPLACED AND THEN MUST BE RE-SECRED AND MULCHED.

IF, FOR ANY REASON, THE DESIGNED FACULTIES OR MEASURES DO NOT PROMDE THE NECESSARY PROTECTION, THE CONTRACTOR SHALL ADJUST THE EROSION CONTROL MEASURES AND SEDIMENT CONTROL MEASURES TO ACHIEVE A COMPLETE NON-ERODED STABILIZED SITE CONDITION.

REFUELING AREAS

ALL ABOVE-GROUND GAS OR LIQUID STORAGE TANKS SHALL BE ANCHORED TO PREVENT FLOTATION OR LATERAL MOVEMENT RESULTING FROM HYDRODYNAMIC AND HYDROSTATIC LOADS IF THEY ARE LOCATED WITHIN 1,000 FT OF A FLOODWAY, 100-YEAR FLOODPLAIN, OR A 500-YEAR FLOODPLAIN AND A 500-YEAR FLOODPLAIN OR 500-YEAR FL

ALL FUEL TANKS AND DRUMS SHALL BE STORED IN A MARKED STORAGE AREA. A DIKE SHALL BE CONSTRUUTED AROUND THIS STORAGE AREA ACCORDING TO ALL LOCAL, STATE, AND FEDERAL REGULATIONS.

WASTE DISPOSAL

AREAS DESIGNATED FOR STORAGE DISPOSAL OF SOLID, SANITARY AND TOXIC WASTES (DUMPSTER AREAS, CEMENT TRUCK WASHOUT, VEHICLE FUELING) SHALL BE CLEARLY IDENTIFIED.

COVERED CONTAINERS SHALL BE AVAILABLE FOR DISPOSAL OF DEBRIS TRASH AND HAZARDOUS WASTES

FLIGHTS DUST RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE LIMINAZED TO THE MANAMIM EXTENT PRACTICAL BY MIR ELECTRIC PREPOPERATE CONTROL MEASURES. THESE MEASURES HOULDE THE APPLICATION OF MULCI, WHITE, STONE, OR REPORTED CHIRACIA, AGENTS ON ACCESS ROADS, EMPORED SOILS, STOCKPIED SOILS, OR IMPAKED PUBLIC ROADS WHEN BRY AND WINDY CONNITIONS EXST. A WINERING VEHICLE SHALL BE AVAILABLE FOR THE DURATION OF PROBLET CHIRTIES, INCLIDED REPOLICION TESTORATION.

Standard Erosion And Sedimentation Control Plan Notes: Pipe Line Construction Plan Notes:

- 1. VEHICLES AND EQUIPMENT MAY NEITHER ENTER DIRECTLY TO NOR EXIT DIRECTLY FROM ANYWHERE EXCEPT AT THE PROPOSED ROCK CONSTRUCTION FUTBANCES
- IOLA CUNSINCULION ENTRANCES.
 TOCOPILE HIGHTS MUST NOT EXCEED 35 FEET. STOCKPILE SLOPES MUST BE 2:1 OR FLATTER.
 HE OPERATOR SHALL ASSURE THAT THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IS PROPERLY
 ND COMPLETELY IMPLEMENTED.
- AND COMPLETEL'S INVESTMENT AND TO SECURITY INSTALL SEDIMENT CONTROL FACILITIES OR FAILURE TO PREVENT SEDIMENT LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE OR FAILURE TO TAKE CORRECTIVE ACTIONS TO IMMEDIATELY RESOLVE FAILURES OF SEDIMENT CONTROL
- THE CONSTRUCTION STEP OF YALLINE TO TAKE CORRECTIVE ACTIONS TO MINEDATELY RESCUE FALLINES OF SEDIMENT CONTROL.
 FACILITIES MAY RESULT IN ADMINISTRATIVE, COIL AND/OF COMMAND FEMALINES SERVIN RETURNING SERVING REPORT OF THE PROPERTY AND COMMETTELY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL BEST MAY LEAVED THE PROPERTY AND COMMETTELY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL BEST MAINTENANCE PARTIES. THE OPERATOR MILL MAINTENAN OF MAKE AVAILABLE TO THE OPERATION THAN APPLICABLE CONSERVATION DISTRICT, WRITTEN INSPECTION LOSS OF ALL THOSE INSPECTIONS. ALL MAINTENANCE WORK, INCLUDING CLEANING, BEPARR, PER JOCKEMENT, REGROUND, AND RESTRUCTIONS SHALL BE FORTON SHALL BE REPORTED THE PROPERTY OF T
- NAMEDIATE, VEN DISCORRIGO LIGORESEEN RICOLUSION SHALL BE PLYB OWNED MARDANELY.

 A MIDDIATELY POON DISCORRIGO LIGORESEEN RICOLUSIANCES POSIGN OF THE POENTILL FOR ACCELERATED EROSION AND/OR SEDMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO ELIMINATE POTENTIAL FOR ACCELERATED ERSON AND/OR SEDMENT POLLUTION.

 A LIL PURPING OF SEDMENT LUCEN WATER SHALL BE THROUGH A SEDMENT CONTROL BMP, SUCH AS A PUMPED WATER FILTER BAG DISCHARGING OVER NON-DISCHARGING FOR MON-DISCHARGING FOR MON-DISCHARG
- DISCHARGNUL OVER NUM-DISTORMED ARXING THE REPROVED FROM THE PROJECT STEE AT ALL TIMES.
 8. A CHY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN MUST BE AVAILABLE AT THE PROJECT STEE AT ALL TIMES.
 9. ONLY MINTED DISTORMAN MILL BE PERMITTED TO PROVIDE ACCESS TO SEDIMENT BASIN FOR GRADING AND ACOURTING BORROW TO CONSTRUCT THOSE BMPS.
 10. EROSION AND SEDIMENT BMPS MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THE TRIBUTARY AREAS OF THOSE BMPS.

- THE TREATMENT BAYES OF THOSE DESIGNATIONS THE CONSTRUCTED, STABLEZED, AND FUNCTIONAL EFFORE STEED INSTRUMENTS BAYES ON THOSE SAILS.

 1. A FER FINLS, DIE STABLEZENDH HIST SEEDEN, AND SEDIEN THOSE SAILS THE RESIDENCE BEING WHITH THE THE STABLEZENDH AND SEDIEN SEEDEN SEE
- SPECIFICATIONS.

 SAME AREA SHALL BE CONSIDERED TO HAVE ACHEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNFORM 85% PERENNAL VECETATIVE COVER OR OTHER PERMANENT MON-VECETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE REGISION AND SUBSENFACE CHARACTERISTICS SUFFICIENT TO RESIST SURFOR AND OTHER THORMOGENETS.

- 1. SEDMENT MUST BE REMOVED FROM STORM WATER INLET PROTECTION WHEN DEVICE IS HALF FULL. 2. AT STEAM CROSSINGS, SO BUFFER MEARS SHOULD BE MINITARIED. ON BUFFERS, CLEARING, SOD DISTURBANCES, EXCANATION, ASSESSED FROM THE PROPERTY OF THE MOVING ACTIVITY. A ALL WELLINGS MUST BE DELINEATED AND PROTECTED WITH CRANGE SAFETY FENCE PRIOR TO ANY EARTH MOVING ACTIVITY.

TEMPORARY STABILIZATION & PERMANENT STABILIZATION

- ILMPOYART STABILIZATION & PERMANENT STABILIZATION

 1. HAY OR STREW MUCH MIST BE APPLED AT 20 TIONS PER ADDE

 2. MILLON WITH MILLON CONTROL NETTING OR EROSON CONTROL BLANKETS MIST BE INSTALLED ON ALL SLOPES 3:1 AND STEEPER."

 3. STRAW MILLON SHALL BE REPORT IN 10 MOR STRAWNE, NOT CORPORT OR FINELY BROKEN.

 4. WITH, THE SITE IS STABILIZED, ALL EROSON AND SEDMENT BRIPS MIST BE MAINTAINED PROPERLY, MAINTENANCES MIST NICLUDE INSPECTIONS OF ALL EROSON AND SEDMENT GRAND LEVER AT THE ADD AT MEDICAL PROSE AND SEDMENT BRIPS MIST BE MAINTAINED RECORDED. RESECTION, ERSEEDING, OR ALL EROSON AND SEDMENT SHAPE WORK, INCLUDING CLEAN OUT, REPAR, REPLACEMENT, RECARDING, RESEEDING, REPLACEMENT BRIPS, OR MODIFICATIONS OF THOSE MISTALLED MILL BE REQUIRED.

 AS EXPECTED, REPLACEMENT BRIPS, OR MODIFICATIONS OF THOSE INSTALLED MILL BE REQUIRED.

 5. SEDMENT REMOVED FROM MISTS SHALL BE DEPCRIED OF RELADED AREAS OUTSIDE OF STEEP SLOPES, METLANDS, TO PROMINGE SMALLES AND MASTERS AT BRIPS OF THE MISTALLED MILL BE RECORDED.

 5. COORD-MAS OR PROMINGE, SMALLES AND MASTER STABLED, OR PLACED MISTOL MISTALLED.

 6. COORD-MAS OR PROMINGE, SMALLES AND MASTER STABLED, OR PLACED SILLIDADIO, MISTES IN ACCORDANCE MIT ONLY BY THE CONTRACTOR SHALL NOT ILLEGALLY BURY, DUMP, OR DISCHARGE ANY BULDING MATERIAL OR WASTES AT THE SITE.

STREAMBANK STABILIZATION SPECIFICATIONS

- Filter bags used to remove sediments from sediment—laden pumped water from the work cell shall be "dirt bag" brand name or approved equivalent. The filter bag shall be placed in an upland area, downstream and adjacent to the undisturbed
- I. HILTER BACS USED TO ROUNCE SEDIMENTS FROM SEDIMENT-LOOP PURPED WATER FROM THE ROOK CLL SHALL BE TORT BAC'S READON NO REPORT BAC'S BANDON NO REPORT OF TO THE WILDINGSTORE OF THE PACE O

BEST MANAGEMENT PRACTICES

LIMITING EXPOSED AREAS

EARTH DISTURBANCE ACTIVITIES SHALL BE PLANNED AND CONDUCTED TO MINIMIZE THE EXTENT AND DURATION OF THE DISTURBANCE. THE LIBIGITH OF THE FOR CONSTRUCTING ACCESS ROADS, UTILITY LIBE TREAGHING, TREACH BOCK-FLLING, FANL GRADNE AND CLEANING PHOLIDE KEPT TO A NOMINM. COOLD PHONNEA ON SCHEDULING OF THE VARIOUS UTILITY CONSTRUCTION ITEMS, TOGETHER WITH THELY AVAILABILITY OF MATERIALS, ADEQUATE EQUIPMENT, AND ADEQUATE MANPOWER, WILL HELP REDUCE THE TIME OF EXPOSURE OF DISTURBED LAND.

PPELINES WITH JOINTS THAT ALLOW A MANUFACTURED LENGTH OF PIPE TO BE PLACED IN THE TRENCH WITH THE PIPE JOIN ASSEMBLED (MADE IN THE TRENCH REQUIRE AN OPEN PIPELINE TRENCH THAT IS ONLY SLIGHTLY LONGER THAN THE LENGTH OF PIPE BBING INSTALLED.

BEING INSTALLED.

LARGE DIAMETER STEEL PIPELINES WITH WELDED JOIN'S WHERE THE PIPE JOIN'S ARE WELDED WHILE THE PIPE IS OUT OF THE TRENCH USUALLY REQUIRE A FARRY LONG LISTEN OF OPEN PIPELINE WEBGIT. THE TOTAL THE FROM TRENCH DISCAVATION TO PLACEBURIT OF STANDARD AND A STANDARD

SWALE/DITCH/CHANNEL/WATERWAYS CROSSINGS

ADEQUATELY SIZED PIPE CULVERTS SHOULD BE INSTALLED FOR ACCESS ROADS AT ALL LOCATIONS WHERE ACCESS ROADS CROSS A SWALE/DITCH/CHANNEL OR WATERWAY WHETHER OR NOT FLOWING WATER IS ENCOUNTERED. WHERE THE PIPE LINE TRENCH CROSSES A SWALE/DITCH/CHANNEL OR WATERWAY WITH FLOWING WATER, THEN A TEMPORARY PIPE CULVERT PROPERTY "SAND BAGGED" SHOULD BE INSTALLED FROOR TO THE TRENCHING OPERATION AND MANTANED UNITL THE PIPE LINE IS INSTALLED. THE TRENCH BACKFILLED. BE RESIDELLED PROOR TO THE TRENDMING OPERATION AND MANTANED UNTIL THE PIPE LIKE IS INSTALLED, THE TRENDH BACKFILLED, AND THE SMALE/TOTH-(HANNEL) OR MATERIANY IS RESTORED AND STRAULED. WHERE A UTILITY UNE CROSSES A WITH THE CONTROL OF MATERIANY AND THE EXCLANATED TRENDH MUST REMAIN OPEN FOR MORE THAN ONE WORKING DAY, THEN A TEMPORARY PIPE CULVERT PROPERLY "SAND BACKGOT SHOULD BE INSTALLED AND MAINTAINED UNIT. THE SMALE/DICH/CHANNEL. OR WATERWAY IS RESTORED AND STABILIZED. FLOWING WATER NEEDS TO BE PROPERLY HANDLED WHERE UTILITY LINES CROSS STREAMS OR WELLANDS.

CHANNEL AND STREAMBANK STABILIZATION

ADEQUATE STREAM BANK STABILIZATION MUST BE PROVIDED AT ALL LOCATIONS WHERE STREAM BANKS ARE DISTURBED. THE STREAM BANK STABILIZATION SHOULD BE DESIGNED TO WITHSTAND THE ANTICIPATED WATER FLOW VELOCITIES OR THE MAXIMUM ANTICIPATED BOWN STROUGHOUR SHE CHARGE OF IMPOSITION FOR WINTERVISE THE CITY OF RECORDS OF THE MANIMUM MINIOR SEE STROUGHT OF SHEAR STRESS. ALL EXISTING SWALES/DITCHES/GRAINELS OR WINTERVISE THAT ARE DISTURBED NEED TO BE STABILIZED TO WINTERVISE AND MINIORATED WATER FLOW VELOCITIES OR MANIMUM ANTICIPATED SHEAR STRESS WHEN THEY ARE RECOPRISED PROPOSED DITCHES AND CHARMELS SHOULD BE PROVIDED WITH ADQUARTE STABILIZATION TO WITHSTAND DESIGN FLOW VELOCITIES OR MANIMUM ANTICIPATED SHEAR STRESS WHEN THEY ARE INSTALLED.

PERMANENT STABILIZATION

THE INSTALLATION OF PAVEMENT, ROOK RIP FRAP OR CABIONIS ARE SOME EXAMPLES OF STABILIZATION. THE STANDARD FOR VEGETATINE COVER AS STABILIZATION IS PERENNAL VEGETATION THAT IS ESTABLISHED WITH A UNIFORM COVERAGE OF DENSITY OF 85% AGROSS THE DESTRIBED AREA. THE APPLICATION OF UNIF, FERTILIZER, SECU. AND MULLOH IS USUALLY DONCE TO ACHIEVE PERMANENT STABILIZATION. THE MULCH IS CONSIDERED TO BE AN INTERIM STABILIZATION MEASURE TO ASSIST IN THE ESTABLISAMENT OF THE PERMANENT VEGETATIVE COVER.

INTERIM STABILIZATION

TEMPORARY SEEDING WITH MULCH COVER FOR INTERIM STABILIZATION IS A TYPE OF BMP THAT CAN USUALLY BE PROVIDED WHERE THE EARTH DISTURBANCE ACTIVITY TEMPORARILY CEASES.

THE INSTALLATION OF AN EROSION CONTROL BLANKET OR APPLICATION OF MULCH UPON SEEDED AREAS ARE BOTH CONSIDERED TO BE INTERIM STABILIZATION BMP'S TO PROTECT THE SEEDBED UNTIL VEGETATION IS ESTABLISHED.

SLOPE BREAKERS/INTERCEPTOR DIKES/WATER BARS

TEMPORARY SLOPE BREAKERS/INTERCEPTOR DIKES/WATER BARS SHOULD BE INSTALLED ACROSS DISTURBED AREAS (ACCESS ROAD, ETC.) OF THE UTILITY LINE RICHT-OF-WAY ON ALL SLOPES GREATER THAN 5% AND DISCHARGE INTO WELL-VEGETATED AREAS. PERMANENT SLOPE BREAKERS/INTERCEPTOR DIKES/WATER BARS NOT ONLY COLLECT RUNOFF FROM THE DISTURBED AREAS AND DISCHARGE IT TO WELL VEGETATED AREAS UNIL PERMANENT VEGETATION IS ESTABLISHED, BUT ALSO PROVIDE LONG—TERM EROSION CONTROL ON THE COMPLETED RIGHT-OF-WAY.

SOLIDS SEPARATION

STRAW BALE BARRIERS, FILTER FABRIC FENCE, REINFORCED FILTER FABRIC FENCE, ROCK FILTER BERMS, ROCK FILTER AND STORM INLET PROTECTION ARE ALL EXAMPLES OF SOLDS SEPARATION BMP'S. THEY SHOULD REMOVE SEDMENT BY EITHER TEMPORARLY IMPOUNDING THE SEDMENT LABEN RUNGET OR BY SUFFICIENTLY SLOWING THE VELOCITY OF THE RUNGET TO INDUCE SETTING OF THE SEDMENT PARTIES.

THE "PUMPED WATER FILTER BAG" IS USED AS A SOLIDS SEPARATION DEVICE TO REMOVE SEDIMENT FROM MUDDY WATER PUMPED FROM TRENCHES OR EXCAVATIONS.

SILT SOCK INSTALLATION

IT IS EXPECTED THAT THE EXISTING SURFACE BE PREPARED PRIOR TO INSTALLATION OF FILTER SOCKS TO CREATE A DIRECT CONTACT BETWEEN THE BOTTOM OF THE SILT SOCKS AND THE EARTH ON WHICH THEY ARE PLACED. WHEN INSPECTORS (GEP AND INSTRUML) MORCATE THAT THIS CONTACT IS NOT BEEN ACHIEVED, THE COMPANY MILL REQUIRE THE PLACEDHAT OF THAT PLICES SOCKS. THEREFORE, THE BEST WAY TO AVIOU THE USE OF THE MILLED HURCHDENT OF THE FILTER SOCKS SOCRECELY AND INSTRUMENT GOOD HOUSE HOW THE PLICES SOCKS CONTROLLED HE SOCKS THE SOCK THE SOCKS THE SO

Soils Limitations And Resolutions Char

30115 Limitat	ions and Resolutions Chart			
SOIL LIMITATIONS	RESOLUTIONS			
CUTBANKS CAVE	LAYBACK SLOPES			
CORROSIVE TO CONCRETE/STEEL	CATHODIC PROTECTION AND/OR CORROSION RESISTANT CONCRETE			
DROUGHTY	N/A			
EASILY ERODIBLE	MAINTAIN EROSION BMPS			
FLOODING	RAISE ELEVATION OUTSIDE FLOOD LEVEL OR POSTPONE CONSTRUCTION			
DEPTH TO SATURATED ZONE/SEASONAL HIGH WATER TABLE	KNOW DEPTH TO SEASONAL HIGH WATER TABLE AND AVOID IMPACTS TO SITE DEVELOPMENT PLANS			
HYDRIC/HYDRIC INCLUSIONS	AVOID			
LOW STRENGTH/LANDSLIDE PRONE	LAYBACK SLOPES—DESIGN FOR CONDITION			
SLOW PERCOLATION	DRAINAGE DITCH			
PIPING	TEMPORARILY LOWER GROUND WATER TABLE OR PROVIDE FILTERS			
POOR SOURCE OF TOPSOIL	AVOID REUSE AS TOPSOIL FOR SUPPORT OF VEGETATION			
FROST ACTION	LOWER FOOTINGS BELOW FROST DEPTHS, PROVIDE POSITIVE SUBGRADE			
SHRINK-SWELL	AVOID USE OF HIGHLY PLASTIC CLAYS IN BUILDING AREAS			
POTENTIAL SINKHOLE	PLUG OR MITIGATE KNOWN SINKHOLES, PROVIDE POSITIVE SURFACE			
PONDING	PROVIDE POSITIVE DRAINAGE			
WETNESS	USE SUNNY WEATHER COMBINED WITH MECHANICAL ACTIONS TO LOWER GROUNDWATER TABLE OR AVOID USING THESE SOILS			

- GENERAL NOTES:

 1. ALL BIPS'S SHALL BE INSPECTED AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ANY
 MEDISSAYS PERMANS MUST BE WADE MANDURED TO ENSURE EFFECTIVE AND EFFICIENT OPERATION.

 3. IN SOME CASES, THE WEST LAKEOFF BUILD MAY BE NEEDED DUE TO UNFORESEEN CONDITIONS.

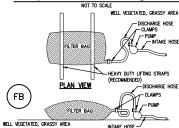
 4. ADDITIONAL BURDS MAY BE RODURED OTHER THAN THOSE SHOWN.

 5. THE CONTRACTOR SHALL TAKE WHATEVER MEASURES NECESSARY TO PREVENT SEDIMENT FROM
 LEAVING THE SITE.

E&SPC TYPICAL DETAIL SHEET 2

REVISIONS DATE AVON LAKE GAS ADDITION PROJECT PROJECT NO. CARLISLE, EATON & LAGRANGE TOWNSHIPS AEJ NRG-1007 AVON, AVON LAKE, ELYRIA & SJC NORTH RIDGEVILLE CITIES SHEET NO. 12.15.14 LORAIN COUNTY 84 of 88 OHIO AS NOTED 3355 Route 611, Suite 1 Hanover Bartonsville, PA 18321-7822 570 688 9550 Engineering Associates Inc Fax 570 688 9768

Pumped Water Filter Bag Detail



ELEVATION VIEW

NOTES:

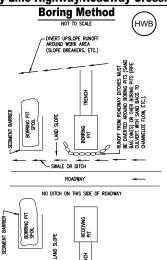
1. LOW VOLUME FILTER BASS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SENN WITH HIGH STRENGTH, DOUBLE STITCHED "A" TYPE SEAMS, THEY SHALL BE CAPABLE OF REPARE PARTICLES LARGER THAN 150 MICROSS, HIGH VOLUME FILTER STANDARDES BE MADE FROM WOOTH GEOTEXTILES THAT MEET THE FOLLOWING STANDARDES.

STANDANDS.		
PROPERTY	TEST METHOD	MINIMUM STANDARD
AVG. WIDE WIDTH STRENGTH	ASTM D-4884	60 LB/IN
GRAB TENSILE	ASTM D-4632	205 LB
PUNCTURE	ASTM D-4833	110 LB
MULLEN BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	85%
AOS % RETAINED	ASTM D-4751	80 SIEVE

- 4. NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS

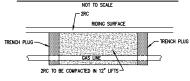
- FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

Utility Line Highway/Roadway Crossing

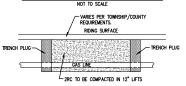




Stone/Dirt Twp. Road Crossing

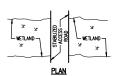


Paved Twp. Road Crossing

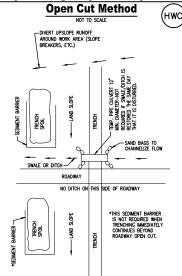


Access Road Wetland And Crossing

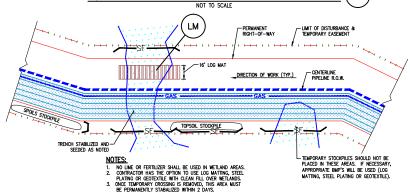
REMOVAL OF TREES, TREE STUMPS BRUSH AND VECTATION SHOULD BE KEPT TO A MINIMUM IN THE WETLAND.
GRADING SHOULD BE LIMITED TO THE AREA DIRECTLY OVER THE TRENCH TO THE EXTENT POSSIBLE WHERE
CLEARING OF TRESS AND VEGETATION IS REQUIRED TO THE EQUIPMENT ACCESS AREAS, THE TIER AND
VEGETATION ROOT MASS IS TO REMAIN LUNISTIMEND. VEGETATION MAY BE CLIT AT/NEAR THE GROUND LIME AND
PORTUDE BE REMOVED FROM THE WETLAND. TREES SHOULD BE CLIT ADONE THE GROUND HAN SHOULD BE
REMOVED FROM THE WETLAND. TREES SHOULD BE CLIT ARONE THE GROUND LIME AND SHOULD BE
REMOVED FROM THE WETLAND. TREES SHOULD BE CLIT ARONE THE GROUND LIME WITH THE STUMPS LEFT IN



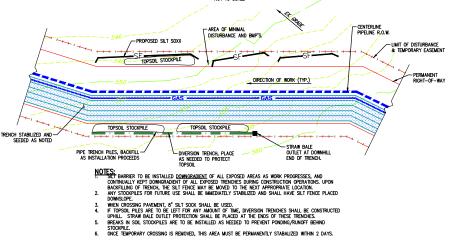
Utility Line Highway/Roadway Crossing



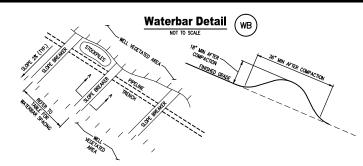
Typical Trench E&S Controls For Wetland Areas (wc



Typical Trench E&S Controls For Areas Outside Of Wetlands



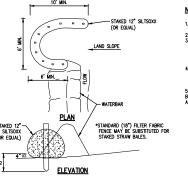
Typical Log Mat Detail (LM) NOTE: ALL WOOD MEMBERS ARE 4"x4". A GEOTEXTILE UNDERLAYMENT SHAL BE USED UNDER THE WOOD MAT.



Required Spacing For Temporary Waterbars

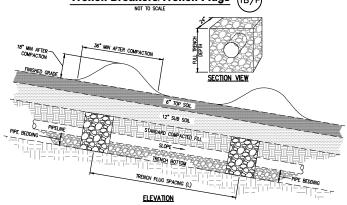
PERCENT SLOPE	SPACING (FT.)
< 5	250
5 - 15	150
15 - 30	100
> 30	50
PERMANENT WATERBARS ARE REQUIRED AT ALL STREA	M, RIVER, AND OTHER WATER BODY CROSSINGS AS WELL
AS LIPSLOPE FROM ROADWAY AND RAILROA	ID CLIT SLOPES OTHERWISE NOT REQUIRED

Sediment Filter-Sock Protection At Waterbar Outlet (SSO)



1. BACKFILL MATERIAL SHOULD BE MOUNDED OVER THE EXCAVAITED
AREA TO ALLOW FOR SETTLING, AND SEEDED AND MULCHED.
2. THE EXCAVATED AREA MUST BE STABILIZED WITHIN 72 HOURS.
3. STAGING RACES, ASSENBLY, MEAST, EMERGARY EVUNENT AND
NON-HALAROOUS MATERIAL STORNER AREAS SHOULD BE LOCATED
AT LEAST TOO
MATERIAL STORNER AREAS SHOULD BE LOCATED AT LEAST 100
FEET BACK FROM TOP OF STREAM BANK.
4. WHETHER OR NOT BLASTING WILL BE REQUIRED SHOULD BE
DETERMINED PRIOR TO COMMENCING THE TRENCH EXCAVATION
FOR A STREAM ROSCOSING, SINCE THIS MAY AFFECT THE STAGEN
5. AT DRANINGE SMALES GROSSING THE DISTURBED AREAS ARE TO
BE STRBUZTED MITH RPI—RAY OR JUTE MATTING WITH VEGETATION, AS
APPROPRIATE.

Trench Breakers/Trench Plugs



Required Spacing And Materials For Trench Breakers/Trench Plugs

TRENCH	SPACING (L)	<u>PLUG</u>
SLOPE	IN FEET	MATERIAL
0-5%	1,000	CLAY, BENTONITE, OR CONCRETE FILLED SACKS
5-15%	500	CLAY, BENTONITE, OR CONCRETE FILLED SACKS
15-25%	300	CLAY, BENTONITE, OR CONCRETE FILLED SACKS
25-35%	200	CLAY, BENTONITE, OR CONCRETE FILLED SACKS
35-100%	100	CLAY, BENTONITE, OR CONCRETE FILLED SACKS
OVER 100%	50	CLAY, BENTONITE, OR CONCRETE FILLED SACKS

- NOTES:

 1. MERINUS TRENCH PLUSS ARE REQUIRED FOR ALL STREAM, RIVER, WETLAND, OR OTHER BODY CROSSING INFORMATION SLOPE:
 2. TO ENSINE PROPER TOPSOL CONSERVATION, TOPSOL SHOULD NOT BE USED IN EARTH FILLED SACKS.
 3. PLACE AT ALL VERTICAL ANGLE FORMS (TOP AND BOTTOM OF SLOPE).
 4. TRENCH BERKRES/FIRECH PLUSS SHOULD BE INSTALLED IN ALL UTILITY LINE TRENCHERS PER TABLE ABOVE. TABLE ABOVE INDICATES THE REQUIRED SPACING AND MATERIALS FOR THE TRENCH BREAKERS/FIRENCH PLUSS.

E&SPC TYPICAL DETAIL SHEET 3

- GENERAL NOTES:

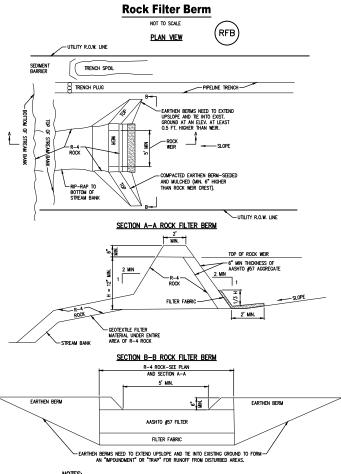
 1. ALL BMP'S SHALL BE INSPECIED AFTER EACH RUNOFF EVENT AND ON A WEELLY BASIS. ANY
 NECESSARY PERMEN MAIST BE MADE IMMODIATELY TO ENSURE EFFECTIVE AND EFFICIENT OPERATION.

 3. IN SOME CASES, THE NEXT LARGER BMP MAY BE NEEDED DUE TO UNFORESEEN CONDITIONS.

 4. ADDITIONAL BMPS MAY BE REQUIRED OTHER THAN THOSE SHOWN.

 5. THE CONTRACTOR SHALL TAKE WHATEVER MEASURES NECESSARY TO PREVENT SEDMENT FROM
 LEAVING THE STIE.

			Hanover Engineering Associates Inc	Bartonsvill 570	oute 611, Suite 1 le, PA 18321-7822 0.688.9550 570.688.9768
			LORAIN COUNTY	DATE: 12.15.14 SCALE: AS NOTED	SHEET NO. 85 of 88
			AVUN, AVUN LAKE, ELYRIA &	DRAWN BY: AEJ CHECKED BY: SJC	PROJECT NO. NRG-1007
NO.	REVISIONS	DATE	AVON LAKE GAS ADDITIC	N PRO	JECT



- NOTES:

 1. THE "FOCK FILTER BEBM" SHOULD ONLY BE USED AT THE BOTTOM OF WERY STEEP UTILITY LINE SLOPES.

 1. THE "FOCK FILTER BEBM" SHOULD ONLY BE USED AT THE BOTTOM OF WERY STEEP UTILITY LINE SLOPES.

 1. THE TOSCHMENCE DIRECTLY TO A STEEM OR RIVER AND HINESE THERE IS NOT SUFFICIENT AREA TO NOTE THE WEAR AND THE POLICIPA OF THE STREAM BEAN. TO SECRET.

 2. GEOTEXTILE FILTER MATERIAL SHOULD BE FLACED WORST THE ENTIRE AREA OF THE STREAM BANK. TO SHOULD BE FLACED IN THE FLOOR PIATH FROM THE GEOTESTIC THE STREAM BANK IS TOO STEEP TO PROPERLY PLACE THE RHAR ROCK, THEN THE EDOTTOM OF THE STREAM BANK. THE STREAM BANK IS TOO STEEP TO PROPERLY PLACE THE RHAR ROCK, THEN THE EDOTTOM OF THE STREAM BANK. TO STOCK THE STREAM BANK IS TOO STEEP TO PROPERLY PLACE THE STREAM BANK IS TOO STEEP TO STEEP THE STREAM BANK IS TOO STEEP TO STEEP THE STREAM BANK IS TOO STEEP THE STREAM BANK IS TOO STEEP THE STREAM BANK IS TOO STEEP THE ROCK HERE THE STREAM BANK IS TO CALLED'T RIVER THE STANDARD BANK THAT RIVERY FLOOR THE FILTER MEDIA.

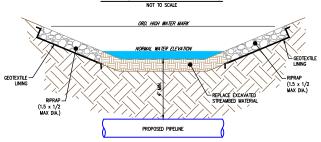
 1. FLACE THE HORSER HAND IN THE TOOK HERE TOEST. THE OBSCIENCE IS TO CALLED'T RIVER FROM BECAUSE THE STREAM BANK THAT RIVER FLOOR THE FILTER MEDIA.

 1. FLACE SHOULD PARK AND MAKE THAT RIVER FLOOR THROUGH THE FILTER MEDIA.

 1. FLACE TO PREPARE THE SECONOMY FROM HER PROPERLY HERE SEEN SHOULD BE SEEDED AND MILLOUED.

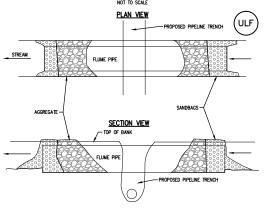
- 3. MILLOGETH. WHEN SITHIN HAVE USSUINCED TO HISTARL HER NOVAN FILLER DEVIM STOUDLE SEEDLED HAVE
 SEDMENT SHOULD BE REMOVED FROM THE FILTER. WHEN IT READNES HAJE OF THE HEIGHT OF THE FILTER.
 FARRIC ON THE UPSOFE SIDE OF THE FILTER. THE REMOVED SEDMENT SHOULD BE DISPOSED OF AT A
 LOCATION THAT PREVENTS SEDMENT FROM DISPORTAGING TO A STREAM.

Utility Trench Crossing



* ONLY REQUIRED IF EROSIVE CONDITIONS PREVAIL

Utility Line Stream Crossing With Pipe Flume



Utility Line Stream Crossing With Pipe Flume ULF PLAN VIEW STREAM CROSSIN all runoff from disturbed areas Mus' collected and treated for sediment removal before reaching stream cros STREAM BOTTON 50 FT. +/-SPOIL FROM CROSSING SEDIMENT BARRIER -

- NOTES:

 I RENCH EXCAVATION FOR UTILITY LINE CROSSINGS SHOULD BE UNDERTAKEN FROM THE TOP OF BANKS WHEREVER POSSIBLE. THE CROSSING SOULD BE PERPENDICULAR TO THE LENGTH OF THE STREAM TO IMMINIZE THE DESTURBED AREA IN THE STREAM.

 2. ALL EXCAVATED CHAMBLE MATERIALS THAT WILL BE SUSSEQUENTLY LED AS BACKFLL MILL BE PLACED IN A TEMPORARY STORMER LOCATED UNISHE OF THE CHAMBLE. THESE STORMER AREAS MUST BE ENCREED WITH A BANGER OR SEMINATIFICATION. STORMER OF THE CHAMBLE LIKE STORMER AREAS MUST BE EXCHANGED MATERIALS THAT WILL NOT BE USED ON THE STEED CANNOT FROM BE STORMER FOR THE CHAMBLE. ALL EXCHANGED MATERIALS THAT WILL NOT BE USED ON THE STEED CANNOT BE STORMER AS THAT WILL DESTURB AS THAT WILL NOT BE USED ON THE STEED CANNOT BE STORMER AS THAT WILL DESTURB AS THAT WILL DESTRUME AS THAT WILL DESTRUMENT AS THE PROPERTY OF THE PROPER
- FLOODEJAIN.

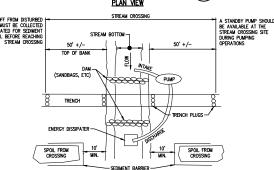
 SINTRIBED AREAS SHOULD BE STABILIZED WHEN THE CROSSING IS COMPLETED.

 ALL WORK, INCLUDION STABILIZATION, SHOULD BE PLANNED FOR PERIODS OF LOW STREAM FLOWS. THE
 SOFEDULE SHOULD ALLOW SUFFICIENT THE TO TALLOW FOR THE ESTREAMENT OF AN PROSON RESISTANT
 VICETATIVE COVER ON IDSTURBED AREAS BEFORE THE START OF THE DORMANT SACSON UNLESS OTHER
 MARKAS TO STABILIZE AGAINST RESISTON ARE USED.

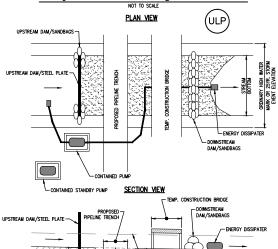
 TEMPORARY ACCESS ROULS, CROSSINGS WHERE REPEATED TRAFFIC IS PLANNED, AND ANY OTHER FORM OF
 TEMPORARY THE OR BALLAST LOCATED WHITEIN THE GHANNED, MILL BE CONSTRUCTED WITH AGAIN ROCK

Utility Line Stream Crossing With





Utility Line Stream Crossing With Steel Plate



Utility Line Crossing General Notes:

THESE COMMENTS APPLY TO BOTH "UTILITY LINE STREAM CROSSING WITH PIPE FLUME" AND "UTILITY LINE STREAM CROSSING WITH DAM AND PUMPING".

UILITY INE. STREAM CROSSION ARE CONSIDERED TO BEGIN (OR END) 50 FEET BACK FROM THE TOP OF THE STREAM BANK ON BOTH SIDES OF THE STREAM. PREJINES WITH THE PIEE LOWING ASSEMBLED/MADE BY THE STREAM BANK ON BOTH SIDES OF THE STREAM. PREJINES WITH THE PIEE LOWING ASSEMBLED/MADE BY THE COMMENCES. LABOR DAMKERS TELL PREJINES WITH MEDDE MONITS WERE THE PIEF LOWING TARE WELDED WHILE THE PIEELINE IS OUT OF THE TRENCH SHOULD MAINTAIN A 25 FOOT BUFFER ON BOTH SIDES OF THE STREAM UILINE. THE STREAM CROSSING COMMENCES.

A UTILITY LINE STREAM CROSSING OF A STREAM 10 FEET IN (BOTTOM) WIDTH OR LESS SHOULD BE COMPLETED WITHIN 24 HOURS (FROM START TO FINISH) INCLUDING THE TRENCH BACKFILLING.

ORDINARY HIGH WATER MARK OR 25YR. STORM EVENT ELEVATION

HAZARDOUS OR POLLUTIVE MATERIAL STORAGE AREAS SHOULD BE LOCATED AT LEAST 100 FEET BACK FROM THE TOP OF THE STREAM BANK.

ALL EXCESS EXCAVATED MATERIAL SHALL BE IMMEDIATELY REMOVED FROM STREAM CROSSING. UTILITY LINE CROSSING OF A STREAM CHANNEL WITH A BOTTOM WIDTH OF 10 FEET OR LESS SHALL BE COMPLETED WITH 24 HOURS FROM START TO FRISH, CROSSINGS WITH A BOTTOM WIDTH OF 10 FEET TO A FEET SHALL BE COMPLETED WITH A HOURS FROM START TO FRISH, CROMPLETON WHICH LOSES THE STABLIZA OF STREAM BANKS AND THE STABLIZATION OF THE AREA 50 FEET BACK FROM THE TOP OF EACH STREAM

UTILITY LINE WETLAND CROSSING

VILLET LINE. THE LIAMIL ARVOSSING:
STRANG AREA OR MOKE AREAS REQUIRED TO MAKE THE WETLAND CROSSING SHOULD BE LOCATED IN AN
UPLAND AT LEAST 50 FEET FROM THE WETLAND EDGE AND INDICATED ON THE SITE DRAWNES. STREAM/RIVER
CROSSINGS MIST BE CAREFULLY FANNED AND CONSTITUTED WHERE WETLANDS ARE ADJACENT TO THE
SITE AM/RIVER CROSSING. WHERE TRENCH SPOIL FROM THE SITEAM/RIVER CROSSING MUST BE TRANSPORABLY
PRACE/STROED ON AN ADJACENT WETLAND, SUPPOSED TRENT-FOR-TWO SHOULD BE FURNISHED FOR THE
TRENCH SPOIL AND THE STREAM/RIVER CROSSING WORK AND PRECAUTIONS SHOULD BE TAKEN TO PREVENT THE
TRENCH SPOIL AND THE STREAM/RIVER CROSSING WORK AND PRECAUTIONS SHOULD BE TAKEN TO PREVENT THE
CROSSING THE MITERAN CROSSING WITH THE WETLAND TO TEMPORABLY STORE THE STREAM CROSSING

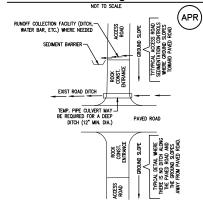
MEMOR ADVOIGNMENT THE MET AND TOPSOL (WITHIN THE WETLAND, THE WETLAND TOPSOL (WITH THE VECETATION ROOT MASS) SHALL BE CAREFULLY REMOVED AND STOCKHED SEPARATELY FROM THE SUBSOLI. THE FORECOME WILL NOT BE REQUIRED WHERE THERE IS STANDING MEATER OF THE TOPSOL IS SATURATED TO THE POINT THAT IT CANNOT BE SECREGATED. SHORTLY AFTER THE PPELINE IS WISTALLED AND THE TRENCH BROYFILLD, THE TOPSOLI SHOULD BE RESTORED TO THE ARROLD AREAS.

SUBMENT POLITION CONTROLS SHOULD BE PROVIDED AS INCESSARY TO PREVENT SEDMENT DISCHARGES FROM DISTURBED AREAS INTO WELLAWS AND OFF THE BIGHT-OF-WAY FROM WELLAND CONSTRUCTION. WATER PUMPED OR REDIVED FROM TRENCHES SHALL NOT BE DISCHARGED INTO WELLANDS WITHOUT PROPER SEDMENT REMOVAL TREATMENT.

ORIGINAL CONTOURS AND CROSS DRAINAGES SHOULD BE RESTORED. ALL EXCESS SPOIL MUST BE REMOVED FROM THE WETLAND AND PROPERLY DISPOSED OF.

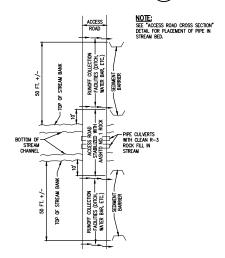
IN GEREAL, ANNUAL PREGRASS AT THE RATE OF 40 POUNDS PER AGRE SHOULD BE APPLIED TO ALL DISTURBED AREAS WEERE STANDING WATER IS NOT PREVAUENT. STRAW MALCH, WITHOUT BROTHS AGENTS, SHOULD BE APPLIED AT THE RATE OF TONS PER AGRE ON AREAS SEEDE WHY ANNUAL REFORMS. FUELS OR HAZARDOUS MATERIALS SHOULD NOT BE STORED WITHIN 100 TEST OF A WELLAND. APPLICATION OF CONCRETE COLAINE OF PIPES SHOULD NOT BE PERFORMED WITHIN 100 TEST OF A WELLAND. APPLICATION OF CONCRETE COLAINE OF PIPES SHOULD NOT BE PERFORMED WITHIN 100 TEST OF A WELLAND.

Access Road Crossing Of Paved Road

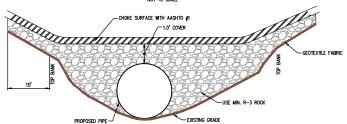


Access Road Stream Crossing With

Pipe Culverts



Access Road Cross Section



F&SPC TYPICAL DETAIL SHEET 4

			Lasi C TITIOAL DETAIL	. JIILLI	т
NO.	REVISIONS	DATE	AVON LAKE GAS ADDITIC	N PRO	JECT
			CARLISLE, EATON & LAGRANGE TOWNSHIPS AVON, AVON LAKE, ELYRIA & NORTH RIDGEVILLE CITIES LORAIN COUNTY	DRAWN BY: AEJ CHECKED BY: SJC DATE: 12.15.14 SCALE: AS NOTED	PROJECT NO. NRG-1007 SHEET NO. 86 OF 88
			Hanover Engineering Associates Inc	Bartonsvill 570	oute 611, Suite 1 le, PA 18321-7822 0.688.9550

- SENERAL NOTES:

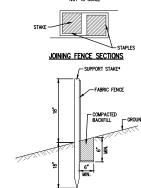
 1. ALL BMP'S SHALL BE INSPECTED AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ANY NECESSARY REPAIRS MUST BE MADE MARDIATELY TO ENSURE EFFECTIVE AND EFFICIENT OPERATION. 2 BMP'S MORN MAY NEED TO BE PELD ADJUSTED TO FIT ACTUAL CONTITIONS.

 3. IN SOME CASES, HE NEXT LARGER BMP MAY BE NEEDED DUE TO UNFORESEEN CONDITIONS.

 4. ADDITIONAL BMPS MAY BE RECURBED OTHER THAN THOSE SHOWN.

 5. THE CONTINGING SHALL TAKE WHATEVER MEASURES NECESSARY TO PREVENT SEDMENT FROM LEAVING HE STE.





- NULES:

 1. STAMES SPACED 0 6" MAXIMIM. USE 2" X 2" WOOD OR EQUIVALENT STEEL STAMES.

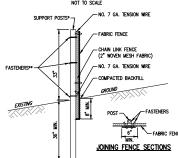
 2. FILTER FARRIC FROX MUST BE PLACED AT LEVEL EXISTING GRADE. BOTH FUNDS OF THE BARRIER MUST BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER AUGMENT.

 3. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HIGGIT OF THE FROX.

 ANY SECTION OF FILTER FARRIC FROXE WHICH HAS BEEN UNDERWIND OR TOPPED MUST BE MARCHARLY REPLACED WITH A ROOK FILTER OUTLET. SEE STAMDAPD CONSTRUCTION DETAIL RIS.

Standard Construction Detail #22

Super Filter Fabric Fence



- NOTES:

 *1. POSTS SPACED ® 10 MX, USE 2 1/2" DIA, CALVANZED OR ALUMPUM POSTS.

 *2. CHAN LINK TO POST KASTINERES SPACED ® 14" MXX. USE NO. 6 GA. ALUMPUM WISE OR NO. 9 GALVANZED STEL PRE-FORMED CLIPS. CHAN LINK TO TEXION WISE FASTERIES SPACED ® 0" MXX. USE NO. 10 GA. CALVANZED STEL WISE. FABRIC TO CHAN FASTENERS SPACED ® 24" MXX. C TO C.

 NO. 7 GA. TEXION WISE NICIALED HORIZONTALY AT TOP AND BOTTOM OF CHUN-UNK FENCE.

 A FURDER FRANCE THOSE MUST BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE MANDRER MUST BE CATEDIDED AT LEAST 8 FEET UPSLOPE AT 45 DEGREES TO THE MANDRER MUST BE CATEDIDED AT LEAST 8 FEET UPSLOPE AT 45 DEGREES TO THE MANDRER MUST BE ENDINGED WHEN ACCUMULATIONS REACH 1/2 THE ABOVE CROUND HEADT OF THE FENCE.

Typical Soil Stockpile FILTER FABRIC FENCE ON LOW SIDE AND AROUND BOTH ENDS OF STOCKPILE, WITH STONE FILTER AT LOW POINT(S). MAINTAIN AS SPECIFIED ON DETAILS.

SOIL STOCKPILE MAINTENANCE

- SOIL STOCKPTILE MINITELYNATURE

 1. STOCKPT FOPSOL OR PICKAYATE SOIL MATERIAL AT LOCATIONS SHOWN FOR EACH PHASE OF CONSTRUCTION.

 2. HEIGHT AND SIDES LOPES SHALL NOT EXCEED MAXIMUM VALUES SHOWN ON DETAIL.

 3. INSTALL FILTER FEXCE PRIOR TO STOCKPUING OF MATERIAL. REPLACE ANY FEXCE REMOVED FOR VEHICLIAR OCCESS AFTER EACH WORK DAY.

 4. APPLY A TEMPORARY SEED MIX AND MULCH WEEN PILE MILL REMAIN FOR 30 DAYS OR MORE.

 5. TOPSOLL PLES AND TRENCH SPOLL STOCKPLES AND BE SEPARATED BY A MINIMUM OF 2 FEET TO AVOID CONTAINMATION OF TOPSOLL.

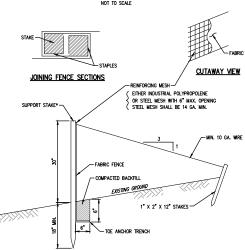
Standard Construction Detail #21 Filter Fabric Fence Reinforced By Staked Straw Bales

- MAIN FENCE. AUGMENT.

 SEDIMENT MUST BE REMOVED WHERE ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HIGHT OF THE FENCE.

 ANY FENCE SCOION WHICH HAS BEEN UNDERWINED OR TOPPED MUST BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET.

Standard Construction Detail #20 Reinforced Filter Fabric Fence (30" High)



- NOTES:

 1. STAKES SPACED 0 8' MAY, USE 2" X 2" WOOD OR EQUIVALENT STEEL STAKES.
 2. SHOW MAL DETAILS AND CONSTRUCTION DIMENSIONS ON PLAN DRAWNOS.
 3. FILTER FABRIC FROME MUST BE INSTALLED AT EXISTING LEVEL, GRADE. BOTH ENDS OF EACH FENCE SECTION MUST BE EXTREMED AT LESS FEEL TO SPACE AT 45 DECREES TO THE MAN FENCE ALLOWARDY.
 4. SEDMENT MUST BE REMOVED WHERE ACCOMMULATIONS REACH 1/2 THE ABOVE GROUND HIGHET OF THE BOOK OR THE ADDRESS AND SHOW THE ADDRESS AND SHOW THE ADDRESS AND SHOW THE SECTION WHICH HAS BEEN LUBERMED OR TOPPED MUST BE IMMEDIATELY REPLACED WITH A ROOK FILTER QUITET. SEE STANDARD CONSTRUCTION DETAIL, \$18. C.

 ALL FROME INSTALLATIONS SHOULD BE INSPECTED AFTER EVERY RUNOFF EVENT AND OR WEEKLY, ANY NECESSARY REPARS MUST BE MADE IMMEDIATELY.

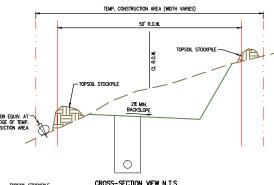
Access Road For Pipe Installation

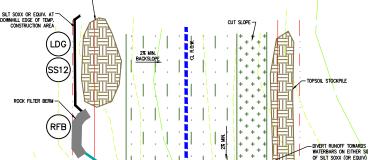
E. OCATIONS OF THESE ACCESS ROADS SHALL ONLY BE PLACED AT LOCATION AS SHOWN

I. THE COURTINGS OF THE ROCKES ROUND STRULL THE TO EVENUED AT LOCATION AS SHOWN ON THE FLAMS. 2. AFTER THE PPE IS INSTALLED AND BACKFILLED, THESE ROADS SHALL BE REMOVED AND RESTORED TO THE NATURAL STATE. 3. THE CONTRACTOR SHALL REMOVE STONE AND GEOTEXTILE AND SCARREY THE AREA UNDER THE STONE.

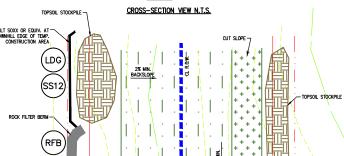
THE STONE. 5. REPLACE TOPSOIL. FERTILIZE, LIME, SEED AND MULCH PER THE PERMANENT SEEDING SPECS. NOTED ON THE DETAIL SHEETS. 6. IN STEEP AREAS, SLOPE PROTECTION MAT SHALL BE APPLIED. EXISTING FARM LANE -PLACE LAYER OF SILT FENCE OR SILT SOXX -(OR EQUIVALENT) DOWNHILL C.A.B. DEPTH VARIES DUE — TO DEPTH OF TOPSOIL

Longitudinal Diversion Grading Method









PLAN VIEW

FLOW

SILTSOXX PLAN VIEW

> t___ 3"_4" AREA TO BE PROTECTED

2"x2" WOODEN STAKE -

WORK AREA

Silt Soxx Staking Details

EDGE SAVER PLAN VIEW

SILTSOXX PLAN VIEW

NOTES:

1. ALL MATERIAL TO MEET FILITEDON SPECIFICATIONS.

2. FILTERSDOX ODMPOST/ASOL/MODX/SEED FILL TO MEET APPLICATION REQUIREMENTS.

3. COMPOST MATERIAL TO BE DISPERSED ON STIE, AS DETERMINED BY ENGINEER.

FLOW

-Temporary culvert (if Needed) Min. 15" Dia. ∕® PLAN VIEW AASHTO #1 ROCK OVER -GEOTEXTILE, TYPE 2B

Rock Construction Entrance

SECTION A-A (A) RADIUS=35' (B) AREAS TO RECEIVE RADIUS TO FIT SITE CONDITIONS(MIN.-10 FT.) W/ GRAB TENSILE OF 200LBS MIN. STRENGTH AND MULLEN BURST STRENGTH OF 190 LBS MIN.

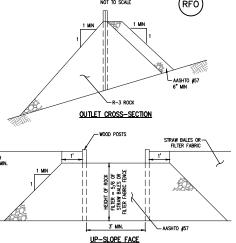
C ROADSIDE DITCH FLOWS TO BE MAINTAINED. USE APPROPRIATE SIZED CILI VERTS AS NECESSARY

NOTE:
ALL ACCESS TO THE SITE MUST BE WA AN APPROVED ROCK CONSTRUCTION ENTRANCE.
POINTS OF POTENTIAL UNAUTHORIZED SITE ACCESS MUST BE PHYSICALLY BARRICADED AT THE

C = 8 IN.

ROCK CONSTRUCTION ENTRANCE MAINTENANCE:
STRUCTURE THICKNESS MUST BE CONSTRUCTLY MAINTAINED TO THE SPECIFIED DIMENSION BY
ADDING ROCK (AN ECESSARY). A THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT
DEPOSITED ON PUBLIC ROLDWAYS, MUST BE RROWED AND RETURNED TO THE CONSTRUCTION
STE. WASHING OF THE ROLDWAY WITH MATER'S NO TPENTITED.

Standard Construction Detail #18 Rock Filter Outlets

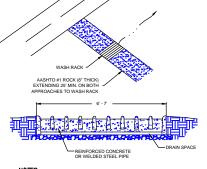


NULLES.

1. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/3 THE HEIGHT OF THE OUTET.

2. ALL INSTALLATIONS SHOULD BE INSPECTED AFTER EVERY RUNOFF EVENT AND OR WEEKLY, ANY MECISSARY REPAIRS MUST BE MADE MIMEDIATELY.

ROCK CONSTRUCTION ENTRANCE WITH WASH RACK



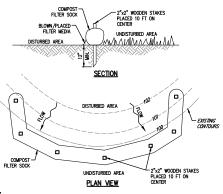
NOTES:

WASH RACK SHALL BE 20 FEET (MIN.) WIDE OR TOTAL WIDTH OF ACCESS. WASH RACK SHALL BE DESIGNED AND CONSTRUCTED TO ACCOMMODATE ANTICIPATED CONSTRUCTION VEHICULAR TRAFFIC.

A WATER SUPPLY SHALL BE MADE AVAILABLE TO WASH THE WHEELS OF ALL VEHICLES EXITING THE SITE.

MANTENANCE ROCK CONSTRUCTION ENTRANCE THOCKNESS SHALL BE CONSTRUCTION ENTRANCE THOCKNESS SHALL BE CONSTRUCTIVE AND ACTIONATE OF ROCK MATERIAL SHALL BE AMENTANED ON SITE FOR THIS PURPOSE, DRAIN SPACE UNDER WASH RACK SHALL BE KEPF OPEN AT ALL THE PURPOSE, DRAIN SPACE UNDER WASH RACK SHALL BE KEPF OPEN AT ALL THE RIFER USE OF THE RACK. ALL SEMBLATE EXPOSED ON READWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE MINERIAL PROPERTY OF REPORTS OF DEPORTS INTO ROADWAY DITCHES, SEWERS, CALVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTIBATE.

Siltsoxx Details ss



- OUTS.

 SOX. FABRIC SHALL MEET STANDARDS OF CHAPTER 6 OF THE RAINWATER & LAND DEVELOPMENT MANUAL FOR OHD. COMPOST SHALL MEET THE STANDARDS OF CHAPTER 6 OF THE RAINWATER & LAND DEVELOPMENT MANUAL FOR OUTS. COMPOST FLEES SOX SHALL BE PLACED AT ENISTING LEVEL GRADE. BOTH DIDG OF THE BARRIER SHALL BE CYTCHDED AT LEXEST 8 FEFT UP SOCK AND SHORD SHALL BE CYTCHDED AT LEXES 18 FEFT UP SOCK AT SO SOME FOR THE MANUAL SOCK ELECTH ABOVE, ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED TO THE MAY BE SOX AND THE SLOPE OF ITS TRIBUTIARY MAR.

 TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOOKS.

 ACCUMULATES DESURENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DEPOSED IN THE MANUAR ESCRIBED LESSMERE IN THE PLAN.

 COMPOST FILE SOOKS SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER REPRINCED ACCORDING TO MANUFACTURER REFLACED WITHIN 24 HOURS OF INSPECTION.

 COMPOST FILE SOOKS SHALL BE REPLACED WITHIN 24 HOURS OF INSPECTION.

 FURTHER SOOK SHALL BE AND THE SOFT OF THE SOOK SHALL BE REPLACED. THE SOOK SHALL BE REPLACED WITHIN 24 HOURS OF INSPECTION.

 FURTHER SOOK SHALL BE THE ADDRESS OF THE SOOK SHALL BE REPLACED. THE SOOK SHALL BE REPLACED WITHIN 24 HOURS OF INSPECTION.

 FURTHER SOOK SHALL BE REPLACED ACCORDING TO MANUFACTURED HERE OF THE SOOK SHALL BE REPLACED. THE SOOK SHALL BE REPLACED BY THE SOOK SHALL BE REPLACED

E&SPC TYPICAL DETAIL SHEET 5

AVON LAKE GAS ADDITION PROJECT REVISIONS DATE PROJECT NO. CARLISLE, EATON & LAGRANGE TOWNSHIPS AEJ NRG-1007 AVON, AVON LAKE, ELYRIA & SJC NORTH RIDGEVILLE CITIES SHEET NO. 12.15.14 LORAIN COUNTY 87 of 88 OHIO 3355 Route 611, Suite 1 Bartonsville, PA 18321-7822

- GENERAL NOTES:

 1. ALL BUPS SHALL BE INSPECTED AFTER EACH RUNOFF EVENT AND ON A MEDILY BASIS. ANY NECESSARY REPAIRS MUST BE MADE IMAGEDATELY TO ENSURE EFFECTIVE AND EFFICIENT OPERATIC. SHIPS SHOWN MAY NEED TO BE FEDD ADMISSED TO A TACTULA CONDITIONS.

 3. IN SOME CASES, THE MEST LARGER BUP MAY BE MEEDED DUE TO UNFORESEEN CONDITIONS.

 4. ADDITIONAL BURNS MAY BE REQUIRED OTHER THAN THOSE SHOWN.

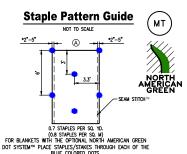
 5. THE CONTRACTOR SHALL TAKE HAWEVER MEASURES NECESSARY TO PREVENT SEDMENT FROM LEARNING THE TOP

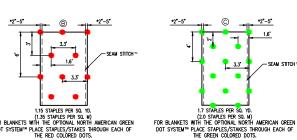
 (AR)

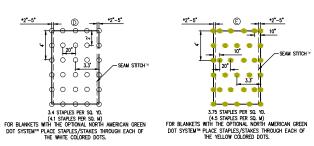
SILTSOXX SECTION

Hanover Engineering Associates Inc

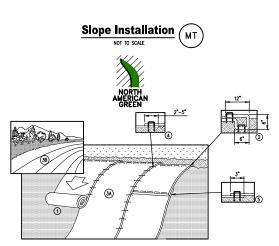
570.688.9550 Fax 570 688 9768







*Location of seam stitch $^{\rm 10}$ will vary depending on north american green product type. 14649 HIGHWAY 41 NORTH, EVANSVILLE, INDIANA 47725 USA 1-800-772-2040 CANADA 1-800-448-2040

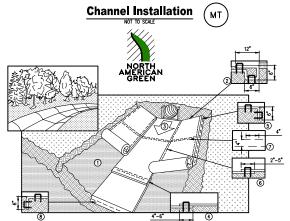


- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LINE, FERTILIZER, AND SEED.
 NOTE: WHEN USING CELL—O-SEED DO NOT SEED PREPARED AREA. CELL—O-SEED MUST BE INSTALLED WITH PAPER SIDE
 NOTICE.
- 2. Begin at the top of the slope by anchoring the Blanket in a 6" deep x 6" wide trench with approximately 12" of Blanket extended beyond the "Pslope Portion of the Trench. Anchor the Blanket with a row of Staples/Strokes approximately 12" apart in the Bottom of the Trench Blocket, and compact the Trench after Stapling. Apply seed to compacted soil and fold redaining 12" portion of Blanket Back over seed and compacted soil. Scidie Blocket over 500 and 12" portion of Blanket Back over seed and apart across the width of the Blanket.
- 3. ROLL THE BLAIMETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLAIMETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SUPFACE. ALL BLAIMETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STANCES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN QUIE. WHEN USING OFFICIAL DID SYSTEM," STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- 4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATIELY 2"-5" OVERLAP DEPENDING ON BLANKET TYPE. TO ENDIRE PROPER SEAM ALIGNMENT, PLACE THE DISC OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLDERS SEAM STIGHT." ON THE PREVIOUSLY INSTALLED BLANKET.
- Consecutive blankets spliced down the slope must be placed end over end (shingle style) with an approximate 3" overlap. Staple through overlapped area, approximately 12" apart across entire blanket width.

NOTE:

* In loose soil conditions, the use of staple or stake lengths greater than 6* may be necessary to properly score the blankets.

14649 HIGHWAY 41 NORTH, EVANSVILLE, INDIANA 47725 USA 1-800-772-2040 CANADA 1-800-448-2040 www.nagreen.com



- Prepare soil before installing blankets, including any necessary application of lime, fertilizer, and seed.
 Note: When using cell—0-seed do not seed prepared area. Cell—0-seed must be installed with paper side
- NOTE: WHEN DISING CELL-O-SELD DO NOT SELD PREPARED MICE. CELL-O-SELD MUST BE INSTITLED WITH PAPER SIDE.

 12. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE BLANKET IN A "DEEP N. O" DOES THE TISKING MITH APPROXIMATELY

 12" OF BLANKET ENTEROED BETOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHORING THE BLANKET MITH A ROW OF

 STAPELS/STANCS APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. ANCHORING THE BLANKET MITH A ROW OF

 STAPELS/STANCS APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. ANCHORING THE BROWNET BACK OVER SELD

 APPROXIMATELY SOLD. SCOKER BLANKET OVER COMPACTED SIDE. WITH A ROW OF STAPLES/STANCES SPACED

 3. ROLL CONTER BLANKET IN DIRECTION OF WHETE FROM BOTTOM OF COMMANDEL BLANKETS WILL UPPOLL WITH APPROPRIATE

 SIDE AGAINST THE SOLL SURFACE. ALL BLANKETS MUST BE SCHREILY FASTEMED TO SOLL SURFACE BY PLACKING

 STAPLES/STANCES IN APPROPRIATE LOCATIONS AS SOWNON IN THE STAPLE PATTERN GUIDE. WITH SURFACE MOWNON THE SOLL STAPLES/STANCES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE

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 APPROPRIATE STAPLE SYTAMES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE

 APPROPRIATE STAPLE SYTAMES.

- SYSTEM**, STAPLES, STAVES: SHOULD BE FLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPORENTE STAPE PATTER.

 4. PLACE CONSCIUTIVE BLANKETS DID OWER END (SHINGLE STILE) WITH A 4"-6" OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED** APARAT AND 4" ON CENTER OS SECURE BLANKETS.

 5. PULL LENGTH EDGE OF BLANKETS AT TOP OF SDE SLOPES MIST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP X 6" WIGE TERRICH, SHOULD COMPACT THE TRENCH AFTER STAPLING,

 6. DAUACHT BLANKETS MUST BE OVERLAPPED APPROXIMATELY 2"-5" (DEPENDING ON BLANKET TWPE) AND STAPLED. TO ENSIRE PROPORT SEAM AUGINANT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BENNE DISTALLED ON TOP EVEN WITH THE COLORED SEAM STICH** ON THE BLANKET BENNE OVERLAPPEN GLANKET (BLANKET BENNE DISTALLED ON TOP EVEN WITH THE COLORED SEAM STICH** ON THE BLANKET BENNE OVERLAPPEN GLANKET (BLANKET BENNE DISTALLED ON TOP EVEN WITH THE COLORED SEAM STICH** ON THE BLANKET BENNE OVERLAPPEN GLANKET (BLANKET BENNE DISTALLED ON TOP EVEN WITH THE COLORED SEAM STICH** ON THE BLANKET BENNE OVERLAPPEN GLANKET (BLANKET BENNE OVERLAPPEN). USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CONTINE OVER ENTIRE WORTH OF THE CHANNEL.

 B. TEITMAN BON OF THE BLANKETS MUST BE ANCHORED WITH A ROW OF STAPLES, STANKES APPROXIMATELY 12" APART IN A 6" DEEP X 6" MIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.



NOTE:

 HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SHAFACE.

 HI LOOSE SOLL COMDITIONS, HE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSAR! TO PROPERLY AMONG THE BEHAVETS.

14649 HIGHWAY 41 NORTH, EVANSVILLE, INDIANA 47725 USA 1-800-772-2040 CANADA 1-800-448-2040

FILTER BAG INLET PROTECTION - TYPE M INLET

-INLET GRATE -FXPANSION RESTRAINT BAG REMOVAL FROM INLET 2 IN X 2 IN. X 3/4 IN. INSTALLATION DETAIL ISOMETRIC VIEW EARTHEN BERM TO BE STABILIZED WITH— TEMPORARY OR PERMANENT VEGETATION Ζш.

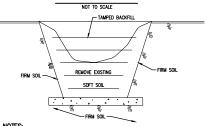
Table 4-9 ROCK GRADATION, FILTER BLANKET REQUIREMENTS. MAXIMUM VELOCITIES R-2 R-3

Rock Gradation Chart

AASHTO NUMBER	NSA NUMBER	PA NUMBER	6 1/2"	<u>4"</u>	3 1/2"	2 1/2"	2"	1_1/2"	1 <u>"</u>	3/4"	1/2"	3/8"	#4	#8	<u>#16</u>	<u>#30</u>	<u>#100</u>	#200
	FS-3		100			50									0			
1		4		100	90-100	25-60		0-15		0-5								
3		3A				100	90-100	35-70	0-15		0-5							
467							100	95		35-70		10-30	0-5					
	FS-2						100						50				0	
		2A					100			52-100		36-70	24-50	16-38	10-30			0-10
5								100	90-100	20-55	0-10	0-5						
57		2B						100	90-100		25-60		0-10	0-5				
		2NS						100	90-100		0-15							
67		2							100	90-100		20-55	0-10	0-5				
		INS							100		90-100		0-15					
7										100	90-100	40-70	0-15	0-5				
8											100	85-100	10-30	0-10	0-5			
		18									100	75-100	10-30	0-10				
10		1										100	75-100				10-30	
	FS-1											100				50	0	

NSA NO.	GRADI	(IN.) REQUIREMENTS					
NO.	MAX	۵	MIN.	SIZE NSA NO.	PLACEMENT THICKNESS	(FT/SEC)	
R-1	1.5	0.75	NO. 8	FS-1	N/A	2.5	
R-2	3	1.5	1	FS-1	N/A	4.5	
R-3	6	3	2	FS-1	3	6.5	
R-4	12	6	3	FS-2	4	9.0	
R-5	18	9	5	FS-2	6	11.5	
R-6	24	12	7	FS-3	8	13.0	
R-7	30	15	12	FS-3	10	14.5	

Sinkhole In Soil



- NOTES:

 1. ECAVATE DOWN TO ROCK TO SMHOLE THROAT OR TO A DEPTH OF 15 FEET BELOW GRADE, WHICHEVER DOZINES RIST.

 2. IF ROCK IS ENCOUNTEED WITHIN 10 FEET, STOP EXCAVATION. THE LIMIT OF EXCAVATION SHALL BE DETERMENDED BY THE BROWNERE GENERALLY, A CORE OF SOFT, IN-FILL MATERIAL WILL BE FOUND WHICH DOVERS MOST OF THE BOTTOM OF THE EXCAVATION. COVER THE AREA WITH FOUND, FEET OF CONCRETE EXTENDING AT LEAST 1 FOOT INTO RISK SOL. IF THE SOFT ZONE IS LARSE(1-8-TT,), REINFORCING STEEL SHOLD BE INCLUDED WITHIN THE CONNECTE CAVE WITH 17 WANTER REBRAT 124" ON CENTER EACH WAY. THE LIMIT OF CONCRETE SHOULD BE DETERMINED BY THE THE PENDRETE.
- 24° ON CENTER EACH WAY. THE LIMIT OF CONCRETE SHOULD BE DETERMINED BY THE THE DINNERS.

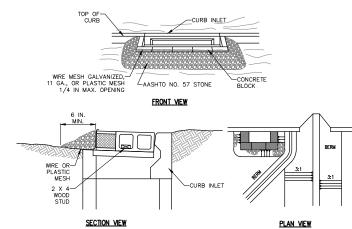
 AFTER CONCRET HAS SET OVERNICHT, BACKFILL HOLE WITH RELATIVELY IMPERMEABLE OLAY SOIL COMPACT SOIL IN 6" LET'S WITH A POWER TAMPER OR RAMMER. THE TOP THEELEY FIELD SHALL BE BACKFILLED WITH JACK COUSIED AGGREGATE.

 BACKFILL HAS BADVE EASTING FORCE TO DIVERT SIGNACE WATER.

 SHED SINCHILD IS UNDER A PROPOSED UTILITY CONCRETE IS TO BE SET 6" BELOW THE UTILITY TO ALLOW FOR A STORME BEDDING.

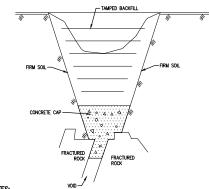
STONE AND CONCRETE BLOCK INLET PROTECTION - TYPE C INLET

PLAN VIEW



MAXIMUM DRAINAGE AREA = 1 ACRE.

Sinkhole In Rock



- NOTES:

 1. SYNULD THE EXCAVATION BECOME 20' OR DEEPER, A GEOTECHNICAL ENGINEER SHOULD BE CONSULTED AS TO THE CORRECT PROCEDURE TO BE CARRED OUT.

 2. EXCAVATE DOWN TO BEDROOX OR TO THE SINKHOLE THROAT.

 3. EXPOSE THE ROOK SUPPACE BY WASHING THE AREA WITH A SMALL HOSE WATER SPRAY AND INSTALL HIGHSLUP CENEMI THIO VOIDS AND CREVICES UNTIL VOIDS ARE FILLED AND A CAP COVERS THE AREA. THE LIMIT OF EXCAVATION AND CONSETTE SHALL BE DETERMINED BY THE DONNEER.

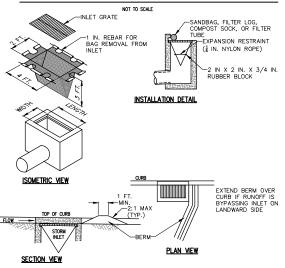
 4. AFTER CONCRETE ANS SET OVERNIGHT, RACKFULL HOLE WITH RELATIVELY IMPRIMABLE CLAY SOLL COMPACT SOLL NO FULL SHIP HIS WITH A PROMER TAMPER OR NAMMER, THE TOP THEREOLY SHET SHALL BE BACKFULLED WITH SOLL NO FULL SHOULD SHOULD SHALL BE SHOUTHLED WITH SOLL AS SOLL CAMPACT.

 5. BACKFULL AS ASSOCIATED AS ASSOCIATED SHALL BE BACKFULLED WITH SHALL BE BACKFULLED WITH SHALL BE SHOUTH OF THE SHALL BE SHOUTH OF THE SHALL BE BACKFULLED WITH SHALL BE SHOUTH OF THE SHALL BE BACKFULLED WITH SHALL BE SHOUTH OF THE SHALL B

E&SPC TYPICAL DETAIL SHEET 6

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NO.	REVISIONS	DATE	AVON LAKE GAS ADDITIC	N PRO	JECT
			CARLISLE, EATON & LAGRANGE TOWNSHIPS AVON, AVON LAKE, ELYRIA & NORTH RIDGEVILLE CITIES LORAIN COUNTY	DRAWN BY: AEJ CHECKED BY: SJC DATE: 12.15.14 SCALE: AS NOTED	PROJECT NO. NRG—1007 SHEET NO. 8 8 0F 8 8
			Hanover Engineering Associates Inc.	Bartonsvill 570	oute 611, Suite 1 e, PA 18321-7822 0.688.9550 570.688.9768

FILTER BAG INLET PROTECTION - TYPE C INLET



MAXIMUM DRAINAGE AREA = 1/2 ACRE.

INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.

ROLLED LERTHEN BETAL SHALL BE LANTIANED UNIL ROLDHAY IS STONED, ROAD SUBBACE BETAL SHALL BE MANTAKENED UNIT. ROONBY'S FACHD. SIX NOT INNMAIN HEDRIT ASPHALT BETAL SHALL BE MANTAMED UNITL. ROADWAY SUFFACE RECEIPES FINAL. COAT.
AT AMINIMUM, THE FARRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS. A MINIMUM BITS STENDHON OF 20 DBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT FASSING AND. 40 A SISKE.

RELT IN LUTE BACK SHALL BE INVECTED ON A MEETLY BACK AND AFTER EACH RUNOFF FIGHT. BACK SHALL BE BAFFER AND MEET ARE WERE ARE REPORTED AND REPORT AND EACH BUILDING SHALL BE BEFLACED, AS TO CAUTE FLOORING OF BYPASSING OF THE MEET, DAMAGED OF CLOGOTO BACK SHALL BE REPLACED, AS UPPLY SHALL BE AMAINAND ON SITE FOR REPLACEDING TO BACK. ALL RECED REPRIASE SHALL BE MINISTED OF SITE FOR REPLACEDING TO BACK. ALL RECED BEFRIES SHALL BE MINISTED WHICH AND ASSETTING THE PLAN BOTCS.

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS

ROLLED EARTHEN BERM IN ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAYED. EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR REMAIN PERMANENT SHALL BE at a minimum, the fabric shall have a minimum grab tensile strencth of 120 lbs., a minimum burst stand for 200 ps. and a minimum trapezoom. Tens strencth of 50 lbs. Filter bags shall be capable of trapping all particles not passing a no. 40 sieve. INLET FILETS BAGS SHALL BE RISPECTED ON A MEDILY BASS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE BUPTED AND RINSED ON REPLACED MEN HALF FILL OF WHEN FIOW CAPACITY HAS BEEN REDUCED SO AS TO CUSE FROOMICO OR PRIVASING OF THE INLET DAMAGED OR CLOSED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE LAMITATION ON STIEF FOR REPLACEMENT OF BAGS, ALL NEEDED REPAIRS SHALL BE INITIATED MANERIAL PLACE THE INSPECTION, DISPOSE ACCUMULATED SEDMENT AS MELL AS ALL USED BAGS ACCORDING TO THE FLAM NOTES. DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

NLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.

SECTION VIEW

MAXIMUM DRAINAGE AREA = 1/2 ACRE.

INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.

FOR SYSTEMS DISCHARGING TO HQ OR EV SURFACE WATER, A 6 INCH THICK COMPOST LAYER SHALL BE SECURELY ANCHORED ON OUTSIDE AND OVER TOP OF STONE.

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

GENERAL NOTES:

1. ALL BUP'S SHALL BE INSPECTED AFTER EACH RUNOFF EVENT AND ON A WEELLY BASIS. ANY
NECESSARY PEARS MIST BE MADE MACINATELY TO DISCRESS EFFECTIVE AND EFFICIENT OFFRATION.

3. IN SOME CASES, THE NOTE LARGER BUP MAY BE NEEDED DUE TO UNFORESEEN CONDITIONS.

4. ADDITIONAL BUF MAY BE REQUIRED OTHER THAN THOSE SHOWN.

5. THE CONTRACTOR SHALL TAKE WHATEVER MEASURES NECESSARY TO PREVENT SEDMENT FROM
LEANING THE STILE.

Attachment G

Wetland Mitigation Plan

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Attachment H

Wetland Delineation Report



Avon Lake Gas Addition ProjectLorain County, Ohio

Wetland and Water Resources Delineation Report

Prepared by Environmental Resources Management

Prepared for NRG Ohio Pipeline Company LLC

July 1, 2014

Avon Lake Gas Addition Project Lorain County, Ohio

Wetland and Water Resources Delineation Report

Prepared by Environmental Resources Management

Signature of Responsible Representative

Donell (Doni) Murphy
Name of Responsible Representative

Table of Contents

INTRODUCTION	4
PROJECT DESCRIPTION	4
GENERAL DESCRIPTION OF SURVEY AREA	5
Drainage and Topography	5
Soils	5
METHODOLOGY	5
Wetland Identification and Delineation	5
Wetland Classification	7
Ohio Rapid Assessment Method	8
Other Waters of the U.S.	8
Hydrologic Connectivity	9
SURVEY RESULTS	9
Delineated Wetlands	9
Other Waters of the U.S	12
SUMMARY OF FINDINGS	14
REFERENCES	15
LIST OF PREPARERS	16

LIST OF TABLES

APPENDICES

Appendix A Figures

Appendix B USACE Routine Wetland Delineation Forms

Appendix C Ohio Rapid Assessment Method (ORAM) Forms

Appendix D Ohio EPA Primary Headwater Habitat Evaluation (PHWH) Stream Forms

Appendix E Photolog

INTRODUCTION

Environmental Resources Management ("ERM"), on behalf of NRG Ohio Pipeline Company LLC ("NRG"), delineated wetlands and other waters of the U.S. along a proposed natural gas pipeline survey corridor generally 200-feet in width and approximately 20-miles in length in Lorain County, Ohio. The survey area also included other areas of anticipated temporary and permanent ground disturbance resulting from construction activities and the installation of ancillary facilities, namely the metering and regulating stations. This wetland delineation report documents the results of our detailed field investigation.

PROJECT DESCRIPTION

The Avon Lake Power Plant is a 734 MW coal-fired generating facility located in Avon Lake, Ohio ("Power Plant"). The Power Plant is owned by NRG Power Midwest LP, which is a subsidiary of NRG Energy, Inc. ("NRG"). The Power Plant was slated for retirement by the facility's prior owner as a result of significant expenditures required to meet increasingly stringent environmental requirements. NRG has decided to move ahead with a gas addition project, which will keep the facility in operation on natural gas beyond its planned deactivation date (the "Avon Lake Gas Addition Project"). To add natural gas as a fuel supply for the Power Plant, the proposed natural gas pipeline must be designed, permitted and constructed. The Avon Lake Gas Addition Project will bring environmental, economic, employment and electric supply reliability benefits to the State. The expected operation date for the pipeline is June 2016.

The proposed 20-inch or 24-inch diameter high-grade steel pipeline will extend south from the Avon Lake Power Plant, which is located along the Lake Erie shoreline in the City of Avon Lake, to a proposed supply tap location southwest of the Village of Grafton (the "Proposed Route"). The Proposed Route is the most feasible direct route between these two points upon evaluating and balancing all factors, including environmental, geographic, cultural, and social and constructability considerations. Specific to environmental considerations, these included the presence and potential for impact to wetlands and waters in addition to existing land uses, wooded areas, etc. Various route iterations were analyzed. The Proposed Route emerged from the routing study as the routing option that best minimizes the potential for impact to wetlands, waters and other environmental considerations while also balancing the other routing factors. The proposed pipeline will require siting approval from the Ohio Power Siting Board ("OPSB"), as well as permits and approvals from other local, state, and federal agencies.

Approximately 1,623 feet of the proposed pipeline will be aboveground. The pipeline will require a permanent (operation) right-of-way ("ROW") of 50-feet in width and a temporary

¹ The Power Plant also has one oil-fueled unit.

(construction) ROW of 100-feet. Additional temporary workspace areas ("TWAs") outside of the 100-foot construction ROW will be needed for short durations in some areas. Existing public and private roads will be utilized for access to most of the construction ROW; however, 5-miles (or 26,156-feet) of 30-foot-wide temporary access roads are anticipated. The required metering and regulating stations will each be approximately 1-acre in size. The collective area of anticipated ground disturbance, which includes the permanent and temporary ROWs, temporary workspace areas, newly constructed temporary access roads, and footprints of the metering and regulating stations encompasses approximately 290 acres.

GENERAL DESCRIPTION OF SURVEY AREA

Drainage and Topography

The survey area lies within the Black-Rocky Hydrologic Unit Code ("HUC") 04110001. This HUC encompasses a large area which includes Lorain County in northern Ohio and is located within the Black River Watershed, which drains north into Lake Erie. Including the East Branch of the Black River, 24 streams or drainage features occur within or cross the survey area, as identified in Table 2.

As represented on the Cleveland, Ohio U.S. Geological Survey ("USGS") 7.5 minute topographic quadrangles (1994), the survey area exhibits gently sloping topography from the southern terminus of the area to the north toward Lake Erie, with elevations ranging from 580 feet above mean sea level ("MSL") to approximately 800 feet above MSL.

Soils

The soil types occurring within the survey area are representative of the predominant soil types that occur throughout the state of Ohio. Specific to hydric soils, there are 90 acres of hydric soils within the survey area, or approximately 18% of the survey area. Of these hydric soil types, the predominant hydric soil types that occur within the survey area, in descending order of occurrence, include Mahoning silt loam (partially hydric), Miner silty clay loam (partially hydric), Luray silty clay loam (hydric), Allis loam (hydric), Trumbull silty clay loam (hydric) and Haskins loam (partially hydric).

METHODOLOGY

Wetland Identification and Delineation

Prior to conducting the field investigation, ERM conducted a desktop delineation of wetlands by reviewing National Wetland Inventory ("NWI") data, Ohio Wetland Inventory ("OWI") data, the National Hydrography Dataset, the Lorain County Soil Survey, topographic imagery and aerial

photography. Geospatial layers associated with these datasets were overlaid with the preliminary Project layout (including the anticipated permanent and temporary ROWs, temporary workspace areas off the ROW, the footprints of the metering and regulating stations and locations of temporary construction access).

Wetlands and waterbodies within the survey area were then field delineated using the procedures outlined in the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region Version 2.0* (Environmental Laboratory, 2012). The field investigation was conducted May 8, May 9 and May 12 through May 16, 2014. In accordance with the Regional Supplement, areas that exhibited hydric soils, wetland hydrology and a dominance of hydrophytic vegetation were delineated as wetlands.

Soils were extracted using a drainage spade shovel with a 16-inch blade. These slices of soil were examined for hydric soil characteristics from 0 to 20 inches in the profile. The most important field indicators examined include the hue, value and chroma of the matrix as well as redoximorphic features using the Munsell Soil Color Chart (Kollmorgen Instrument Corporation, 1994). Generally, soils that exhibit redoximorphic features with a matrix chroma of two or less, or soils without redoximorphic features that exhibit a chroma of one or less are shown to exhibit hydric soil characteristics (Environmental Laboratory, 2012).

The hydrology criterion included within the Regional Supplement requires that an area exhibits one primary indicator of wetland hydrology and at least two secondary indicators of wetland hydrology. Primary indicators include standing water, saturated soils, water marks on trees, drift lines, water stained leaves and oxidized root zones surrounding living roots. Secondary indicators of wetland hydrology include drainage patterns, microtopographic relief, presence of crayfish burrows, and sparsely vegetated concave surfaces. Additional signs of wetland hydrology include visible saturation on aerial photography and a positive FAC-neutral test (see below) (Environmental Laboratory, 2012).

Dominant vegetation for each community was determined by estimating the percentages of dominant species in the tree, sapling, shrub, herb and woody vine strata. Dominant species were examined by using the 50/20 percent dominance rule for each stratum. This was accomplished by determining the estimated percent aerial cover for each species. The relative percent aerial cover was calculated by dividing each species percent cover by the total percent cover for all species and multiplying by 100. These species were then arranged in descending order of relative percent cover. A running total was kept by adding the relative cover of each species starting with the species with the highest relative cover until the total cover equaled 50 percent. All species that were included within this calculation were regarded as dominant. Species of equal cover that contributed to meeting the sum of 50 percent were also regarded as dominant. Additionally, other species that solely accounted for 20 percent or more of the relative percent cover were also considered dominant species. The indicator status of each dominant species was then determined. An indicator status of obligate wetland ("OBL"),

facultative wetland ("FACW"), facultative ("FAC") facultative upland ("FACU") and/or upland ("UPL") has been assigned to each plant species on the *National List of Plant Species that Occur in Wetlands: Region 1* (Reed, 1988). An area has hydrophytic vegetation when, under normal circumstances, more than 50 percent of the composition of dominant species from all strata is OBL, FACW, and/or FAC species.

The FAC-neutral test was calculated for each dataset as a means of determining the presence of wetland hydrology. This test considers all FAC species as neutral for wetland determination and compares the number of dominant species wetter than FAC (i.e., OBL, FACW) against the number of dominant species drier than FAC (i.e., FACU, UPL). A positive FAC-neutral test results when a dominant species wetter than FAC are more prevalent than dominant species drier than FAC. A positive FAC-neutral test is a secondary indicator of wetland hydrology.

To the extent possible, the hydrophytic vegetation decision should be based on the plant community that is normally present during the wet portion of the growing season in a normal rainfall year (Environmental Laboratory, 2012). The growing season has begun on a site in a given year when two or more different non-vascular plant species growing in the wetland or surrounding areas exhibit one of the following: the emergence of herbaceous plants from the ground, the appearance of new growth from vegetative crowns, coleptile/cotyledon emergence from seed, bud burst on woody plants (i.e., some green foliage visible between spreading bud scales), the emergence or elongation of leaves of woody plants, or the emergence of opening flowers (Environmental Laboratory, 2012). The wetland delineation fieldwork within the survey area was conducted within the occurrence of these events and therefore, inside the growing season.

Sample plots that met the three criteria for hydric soils, wetland hydrology and hydrophytic vegetation were considered wetlands. The boundaries of wetlands were determined where there was a transition and one or more of the wetland defining criteria was determined to instead exhibit upland characteristics. Samples were also taken in adjacent areas that were clearly upland to further confirm that the wetland boundary was appropriately delineated.

The delineated wetland boundaries were field documented through the use of a Trimble Global Positioning System ("GPS") receiver capable of sub-meter accuracy. The delineated wetlands were identified by number and correspond to the wetlands illustrated on the wetland and stream maps (Figures 2-26). The wetland boundaries were recorded as polygons and the wetland areas were calculated using the shapefile properties utility in ArcMap, a Geographic Information System ("GIS") software.

Wetland Classification

The U.S. Fish and Wildlife Service ("USFWS") uses the *Classification of Wetlands and Deepwater Habitats of the United States* to classify wetland habitat types (Cowardin et Al, 1979). This classification system is hierarchical and defines five major systems –

Marine, Estuarine, Riverine, Lacustrine, and Palustrine. Palustrine wetlands are generally referred to as non-tidal or freshwater wetlands.

Ohio Rapid Assessment Method

Ohio's Wetland Water Quality Standards require that "an appropriate wetland evaluation methodology acceptable to the director" be implemented to determine the appropriate category for each wetland. This evaluation is conducted in Ohio through the application of the Ohio Rapid Assessment Method ("ORAM"). The ORAM method results in wetlands being scored based on the characteristics they exhibit. Their resulting scores are then used to determine which category of wetland they are for regulatory review purposes. ORAM forms must be completed for each wetland. ERM relied on the current ORAM method to categorize the field delineated wetlands (ORAM, Version 5.0) (Mack, 2001; Appendix C).

Since the ORAM is a rapid assessment method, there are certain wetland scores which fail to clearly differentiate the wetland's functional category. The so-called "gray zone" wetlands fall between the definite scoring breaks between the categories. OEPA requires that "gray zone" wetlands be considered as the higher category unless more detailed functional assessments such as the VIBI or AmphIBI are conducted on those wetlands. As a result of this requirement, wetlands whose scores fall between the breakpoints for Categories 1 and 2 (1 or 2 gray zone wetlands) wetlands were considered as Category 2 wetlands for the purposes of this report. Wetlands whose scores fall between the breakpoints for Categories 2 and 3 wetlands (2 or 3 gray zone wetlands) were considered a Category 3 wetland for the purposes of this report.

Other Waters of the U.S.

The survey area was screened for the presence of areas that meet the criteria for "other waters of the U.S." These areas consist of ephemeral, intermittent and perennial streams, as well as open water habitats such as ponds. Site drainage was determined by secondary source information and in the field using current regulatory guidance. Drainage channels that exhibited "bed and bank" and an ordinary high water mark in the channel were identified and delineated as jurisdictional streams. Drainage channels that did not exhibit an ordinary high water mark were regarded as drainageways.

Streams identified during the field delineation were evaluated using the methods outlined in *Biological Criteria for the Protection of Aquatic Life* (Ohio Environmental Protection Agency, 1987). Data collection for all potential stream crossings included the completion of the Ohio EPA Primary Headwater Habitat Evaluation Form ("PHWH"). The PHWH form was applied for streams with a drainage area of less than one mile. Streams that exhibited a major change in morphology were scored at multiple representative locations. Appendix D provides the completed PHWH forms.

The derived stream courses were field documented through the use of GPS. The delineated streams were identified by a number and correspond to the streams on the wetland and stream

location map (e.g., Stream 1, Stream 2, etc.). The extent of each stream was recorded as polylines and lengths were calculated using the shapefile properties utility in ArcMap, a GIS software.

Hydrologic Connectivity

Permanent impacts to all delineated wetlands determined to be jurisdictional to the USACE will be subject to permit authority from the USACE. Permanent impacts to any remaining isolated wetlands will be treated as waters of the state of Ohio and subject to permit authority from the ODNR. Wetland permitting will also be subject to water quality certification from the OEPA. While all delineated wetlands could be determined jurisdictional to the USACE regardless of hydrologic connectivity, the hydrology of each wetland within the survey area was still evaluated.

SURVEY RESULTS

Delineated Wetlands

ERM conducted a wetland and water resources delineation within the identified survey area in May 2014. As a result, 48 wetlands were delineated in the survey area, as depicted on Figures 1-25. A number of the delineated wetlands are located either wholly or partially in areas that are actively farmed for crops, while others are located adjacent to various types of developed land uses or existing infrastructure. All wetlands that were delineated within the survey area are described in terms of location, jurisdictional status, and quality as dictated by the ORAM version 5.0. Individual data forms included within Appendix B provide the field support and details regarding the wetland/upland boundary determination. The ORAM forms completed for each individual wetland delineated within the survey area are included as Appendix C. PHWH forms for each individual stream located within the survey area are included as Appendix D. Photographic documentation of each area delineated is included in Appendix E.

The locations and extents of the field delineated wetlands and streams are depicted on Figures 1-25. Each delineated wetland is identified by number (e.g., Wetland 1, Wetland 2, etc.) and each stream was given a numeric designation if it did not have an original name (e.g., Stream 1, Stream 2, etc.). The reader may refer to these figures and the wetland delineation data forms (Appendix B) for detailed delineation data. The assumed jurisdictional status, preliminary ORAM score and the on-site acreage of each delineated wetland is included in Table 1.

Of the 48 wetlands delineated within the survey area, all were classified as palustrine. Most are palustrine forested and scrub-shrub ("PFO/PSS") depressional wetlands that are located adjacent to agricultural areas that have been actively farmed and ditched. A number of palustrine emergent ("PEM") depressional wetlands are also scattered throughout the survey area within wet meadows and areas that have endured past clear cutting and farming activities.

The remaining wetlands within the survey area are contiguous with streams or drainages that flow off-site. According to an examination of available aerial imagery (i.e., USGS topographic maps, aerial photography, etc.), these streams eventually drain into the East Branch of the Black River, which is connected to the main branch of the Black River and flows into Lake Erie. These wetlands were assumed to be "waters of the U.S.", which would make them subject to regulations pursuant to Section 404/401 of the Clean Water Act. However, the USACE makes the final determination as to the jurisdiction of a wetland, stream or other water resource.

Wetlands delineated within the survey area were comprised of eight that rated a Category 1, 39 were determined to be Category 2, and one that was determined to be Category 3 in accordance with ORAM. Category 1 wetlands have generally undergone considerable substrate disturbance, habitat alteration and modifications to their hydrologic regime. In addition, many Category 1 wetlands exhibit a dominance of invasive species, which was substantiated during our field investigation. Category 2 wetlands have undergone significant disturbance to their substrate, habitat, and hydrologic regime, but have generally recovered. Category 3 wetlands are of high quality and have not undergone measureable substrate disturbance habitat alteration, or modifications to their hydrologic regime.

Table 1. Summary of Wetlands Delineated within the Survey Area

Wetland Name	Wetland Type ²	ORAM Score ¹	Acreage Within Survey Corridor	Wetland Category ¹
Wetland 1	PFO/PSS	45	11.8	2
Wetland 2	PFO/PSS	39	1.7	2
Wetland 3	PFO/PSS	37	0.1	2
Wetland 4	PFO/PSS	30.5	0.6	2
Wetland 5	PEM	29	1.9	1
Wetland 6	PEM	21	5.3	1
Wetland 7	PFO/PSS/PEM	31	10.5	2
Wetland 8	PSS/PEM	46	13.4	2
Wetland 9	PFO/PSS	42	0.9	2
Wetland 10	PFO/PSS/PEM	36	1.7	2
Wetland 11	PEM	19	<0.1	1

Wetland Name	Wetland Type ²	ORAM Score ¹	Acreage Within Survey Corridor	Wetland Category ¹
Wetland 12	PFO/PEM	52	3.7	2
Wetland 13	PEM	33	0.1	2
Wetland 14	PFO/PSS	24	0.8	1
Wetland 15	PFO	51	0.2	2
Wetland 16	PFO/PSS	56	0.2	2
Wetland 17	PFO/PSS	54	0.9	2
Wetland 18	PFO/PSS	56	1	2
Wetland 19	PFO	56	1.5	2
Wetland 20	PFO/PSS	36	0.5	2
Wetland 21	PFO/PSS	56	4.8	2
Wetland 22	PFO/PSS/PEM	58	45.8	2
Wetland 23	PEM	18	0.2	1
Wetland 24	PFO/PSS	59	5	2
Wetland 25	PFO/PSS	57	2.7	2
Wetland 26	PFO	56	3.3	2
Wetland 27	PEM	25	0.2	1
Wetland 28	PEM	46	<0.1	2
Wetland 29	PFO/PSS/PEM	30	9.6	2
Wetland 30	PSS/PEM	30	<0.1	2
Wetland 31	PFO	41	0.4	2
Wetland 32	PFO/PEM	46	0.2	2

Wetland Name	Wetland Type ²	ORAM Score ¹	Acreage Within Survey Corridor	Wetland Category ¹
Wetland 33	PFO/PSS	50	3.2	2
Wetland 34	PFO/PEM	37	0.2	2
Wetland 35	PFO/PSS/PEM	44	3.2	2
Wetland 36	PSS/PEM	36	0.6	2
Wetland 37	PFO	44	1.5	2
Wetland 38	PFO	39	2.4	2
Wetland 39	PEM	24	0.1	1
Wetland 40	PFO	43	0.1	2
Wetland 41	PFO/PSS	43	0.2	2
Wetland 42	PFO/PSS	60	2.1	3
Wetland 43	PFO/PSS	58	2.3	2
Wetland 44	PFO/PEM	41	0.6	2
Wetland 45	PFO	40	0.7	2
Wetland 46	PEM	38	3	2
Wetland 47	PFO/PEM	55	6.9	2
Wetland 48	PEM	26	0.2	1
		TOTAL	156.3	

¹Wetlands were categorized and scored using ORAM, Version 5.0.

Other Waters of the U.S.

Seven perennial streams and 17 intermittent streams/drainages are located within the survey area. None of these linear waterways have been identified by the USACE as navigable waters. Table 2 lists the stream type and preliminary HHEI score for each waterway identified within the

²Wetland types were determined according to Cowardin (1979).

survey area. Dominant vegetation of these waters typically includes a mixture of forested, scrubshrub and emergent vegetation, as reflected in the data sheets included in Appendix B.

Table 2. Summary of Other Waters of the U.S. Identified within the Survey Area

Stream Name	Stream Type	HHEI Score	Linear Feet Within Survey Corridor	Preliminary Primary Headwater Habitat Classification1
Stream 1	Intermittent	41	202	Modified Class II Primary Headwater Habitat
Stream 2	Intermittent	42	335	Modified Class II Primary Headwater Habitat
Stream 3	Intermittent	42	929	Modified Class II Primary Headwater Habitat
Stream 4	Intermittent	57	215	Modified Class II Primary Headwater Habitat
Stream 5	Intermittent	42	280	Modified Class II Primary Headwater Habitat
Stream 6	Intermittent	52	145	Modified Class II Primary Headwater Habitat
Stream 7	Intermittent	45	456	Modified Class II Primary Headwater Habitat
Stream 8	Intermittent	41	2351	Modified Class II Primary Headwater Habitat
Stream 9	Intermittent	44	133	Modified Class II Primary Headwater Habitat
Stream 10	Intermittent	33	344	Modified Class II Primary Headwater Habitat
Alexander Ditch	Intermittent	N/A	283	Blue Line Stream
Dent Ditch	Intermittent	N/A	262	Blue Line Stream
East Branch of Black River	Perennial	N/A	289	Blue Line Stream
French Creek	Perennial	N/A	202	Blue Line Stream
Jackson Ditch	Intermittent	N/A	203	Blue Line Stream
Jungbluth Ditch	Perennial	N/A	225	Blue Line Stream
Ridgeway Ditch	Perennial	N/A	567	Blue Line Stream
Tributary to East Branch of Black River	Perennial	N/A	203	Blue Line Stream
Tributary to East Branch of Black River	Perennial	N/A	203	Blue Line Stream
Unnamed Stream 1	Intermittent	N/A	257	Blue Line Stream

Stream Name	Stream Type	HHEI Score	Linear Feet Within Survey Corridor	Preliminary Primary Headwater Habitat Classification1
Unnamed Stream 2	Intermittent	N/A	288	Blue Line Stream
Unnamed Stream 3	Intermittent	N/A	204	Blue Line Stream
Unnamed Stream 4	Intermittent	N/A	505	Blue Line Stream
Willow Creek	Perennial	N/A	208	Blue Line Stream

¹Streams were rated using the PHWH Form.

SUMMARY OF FINDINGS

As a result of ERM's field investigation, 48 wetlands were delineated, in whole or in part, within the survey area. Thirty-five of the 48 delineated wetlands are at least partially forested. Seven perennial streams and 17 intermittent streams/drainages occur within or cross the survey area. Permanent impacts to all delineated wetlands determined to be jurisdictional to the USACE will be subject to permit authority from the USACE. Permanent impacts to any remaining isolated wetlands will be treated as waters of the state of Ohio and subject to permit authority from the ODNR. Wetland permitting will also be subject to water quality certification from the OEPA.

The information included in this wetland and water resource delineation should be considered preliminary until a formal Jurisdictional Determination (JD) is made by the USACE regarding the regulatory status of the wetlands and streams within the survey area.

REFERENCES

- Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of wetlands and Deepwater habitats of the United States. Office of Biol. Services, U.S. Fish and Wildlife Service, Washington, D.C. 103p.
- Environmental Laboratory. 1987. Technical Report Y-87-1: Corps of Engineers Wetlands
 Delineation Manual. US Army Corps of Engineers, Waterways Experiment Station.
 January 1987.
- Environmental Laboratory. 2012. Regional Supplement to the Corps of Engineers Wetland

 Delineation Manual: Northeast and Northcentral Region. Version 2.0. ERDC/EL TR-12-1,

 U.S. Army Engineer Research and Development Center, Vicksburg, MS
- Kollmorgen Instrument Corporation. 1994. Munsell soil color charts. Revised Edition. Newburgh, New York.
- Mack, John J. 2001. Ohio Rapid Assessment Method for Wetlands v. 5.0 User's Manual and scoring forms. Ohio EPA Technical Report WET/2001-1. Ohio Environmental Protection Agency, Division of Surface Water, 401/Wetland Ecology Unit, Columbus, Ohio.
- Natural Resources Conservation Service. 2011. Hydric Soils of the United States. ftp://ftp-fc.sc.egov.usda.gov/NSSC/Hydric_Soils/Lists/hydric_soils.xlsx. Accessed May 27, 2014.
- Natural Resources Conservation Service. 2011. Web Soil Survey. http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx. Accessed May 27, 2014.
- Rapanos et ux. v. United States. 2006. U.S. Surpreme Court website. http://www.supremecourtus.gov/. Accessed May 27, 2014.
- Reed, Jr. Porter B. 1988. National List of Plant Species that Occur in Wetlands: National Summary. U.S. Fish & Wildlife Service. Biol. Rep. 88 (24). 244 pp.
- SWANCC v. U.S. Army Corps of Engineers, et al. 2001. U.S. Supreme Court website. http://www.supremecourtsus.gov/. Accessed May 27, 2014.
- Tyler, D.J., and Greenlee, S.K., 2012, Creation of digital contours that approach the characteristics of cartographic contours: U.S. Geological Survey Scientific Investigations Report 2012–5167, 31 p. with appendices.
- U.S. Congress. 1972 (amended 1977, 1987). 33 U.S.C. § 1251 et seq., U.S. Clean Water Act. United States Congress.
- U.S. Fish & Wildlife Service. 2011. National Wetlands Inventory Online Mapper. U.S. Department of the Interior. http://www.fws.gov/wetlands/Data/Mapper.html. Accessed May 27, 2014.

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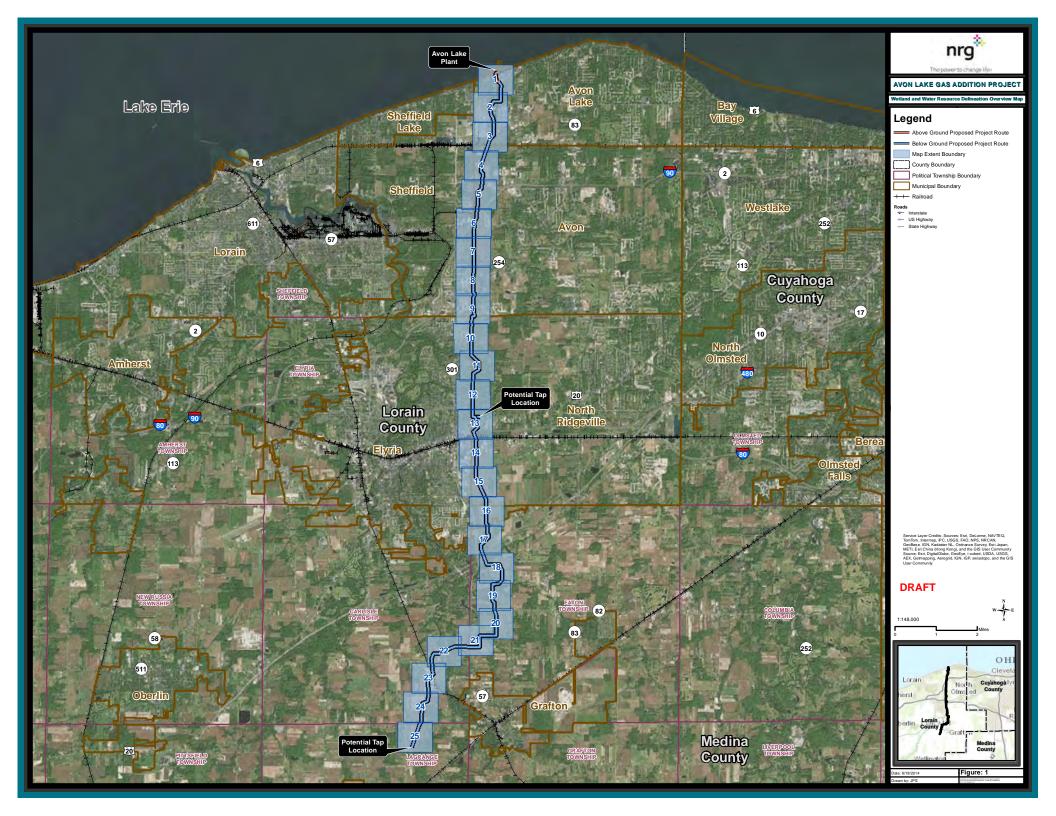
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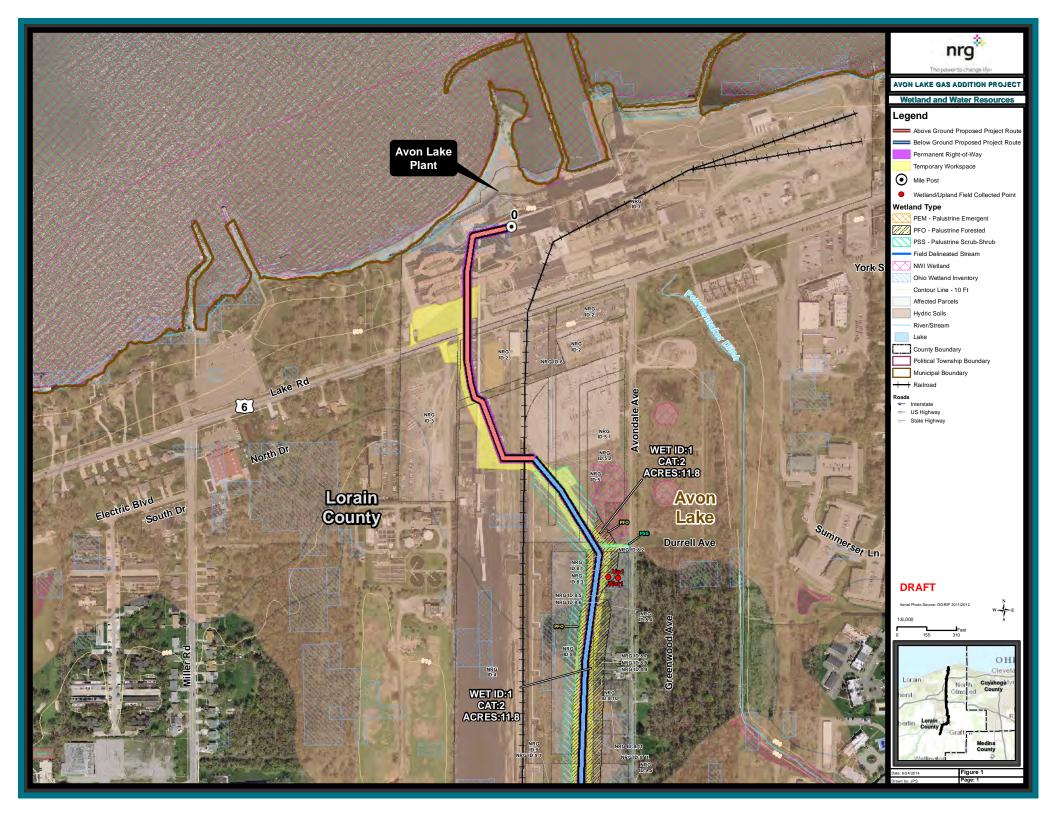
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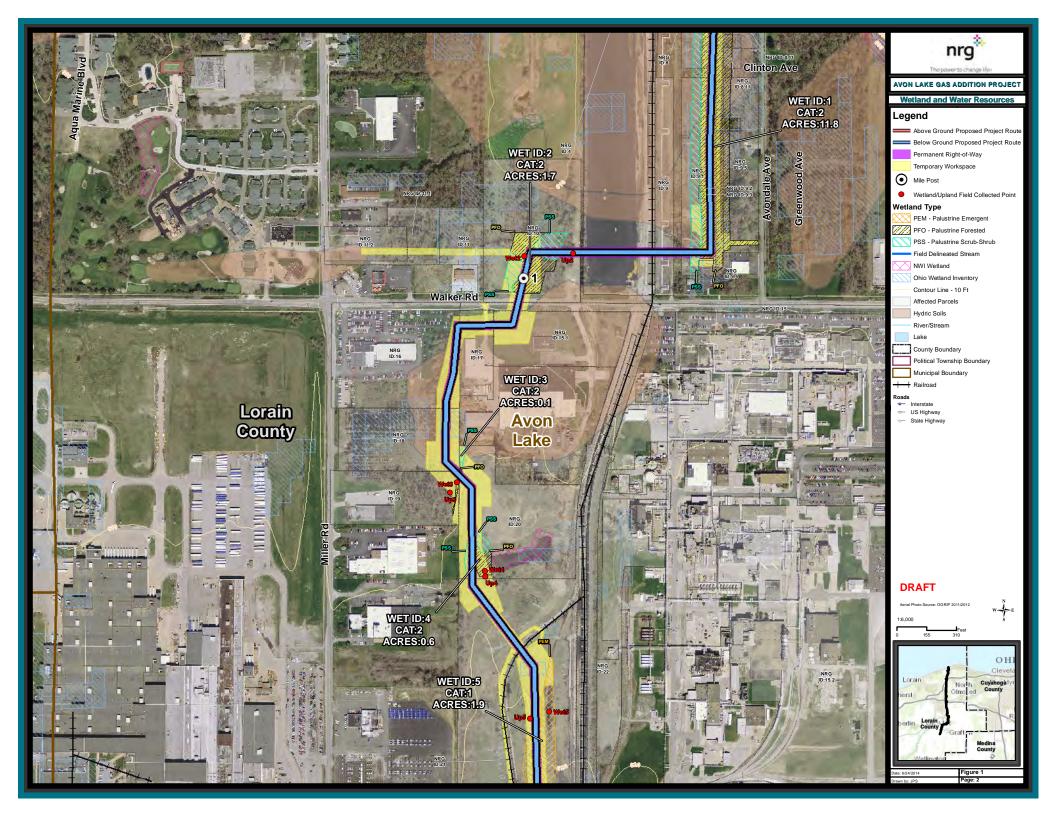
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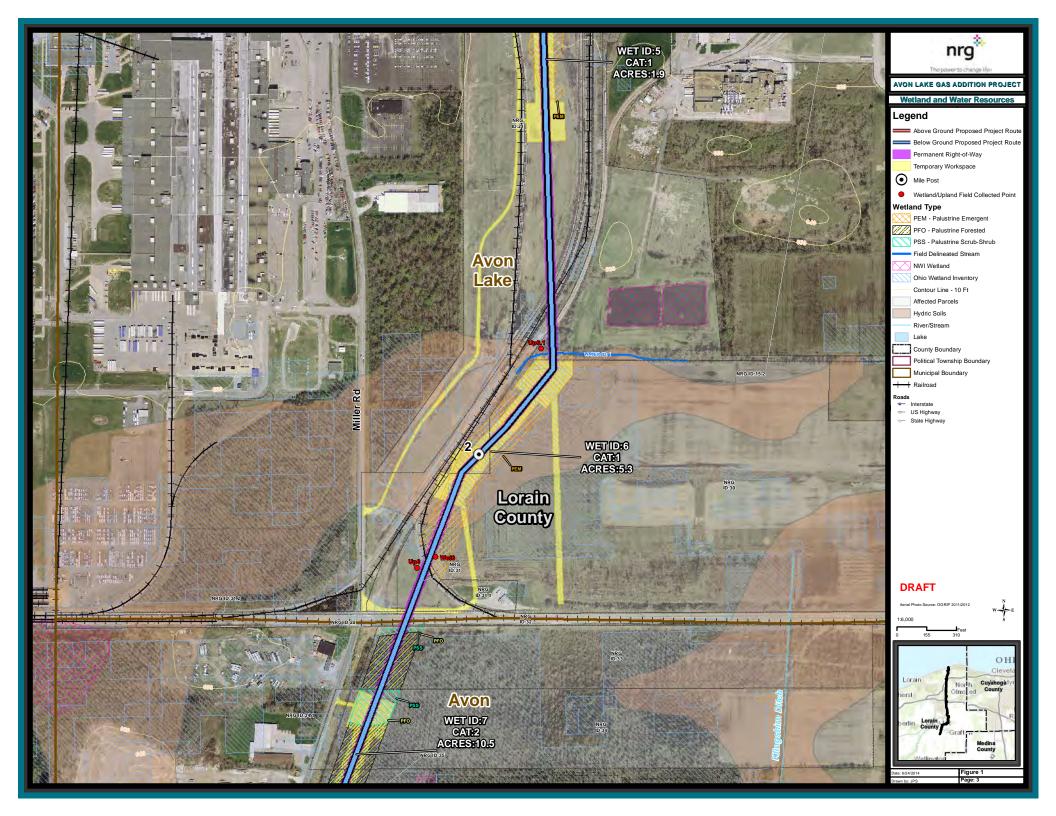
Appendix A

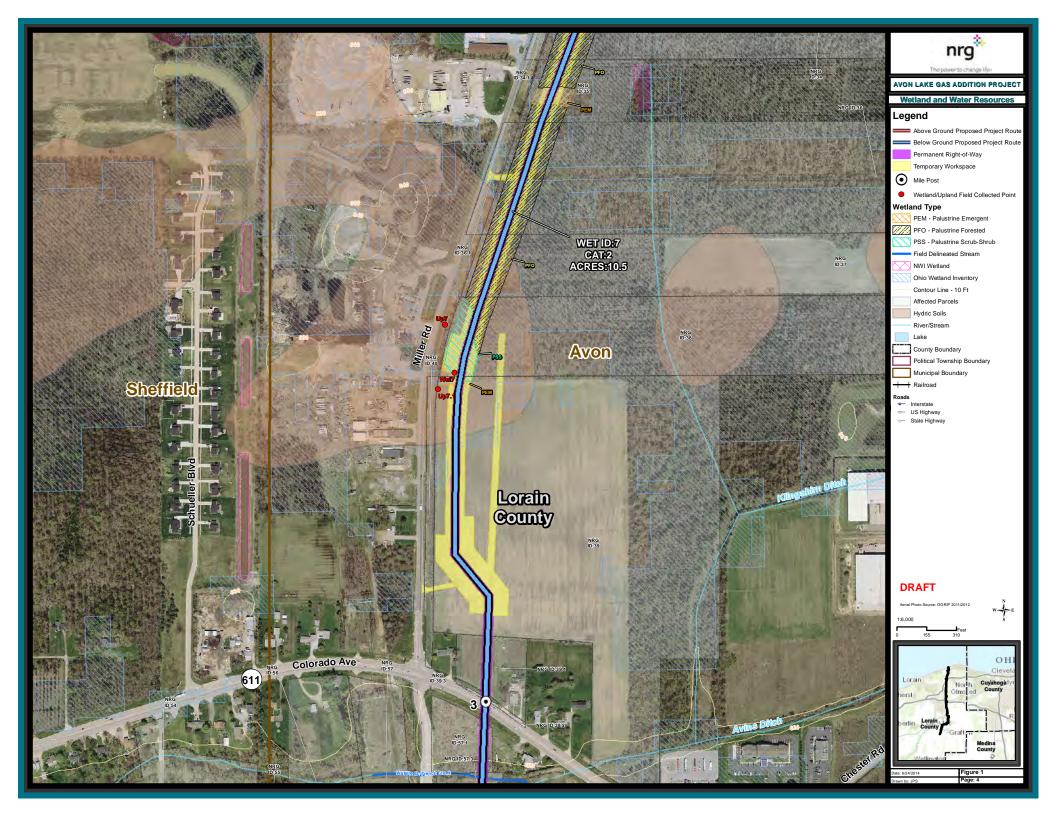
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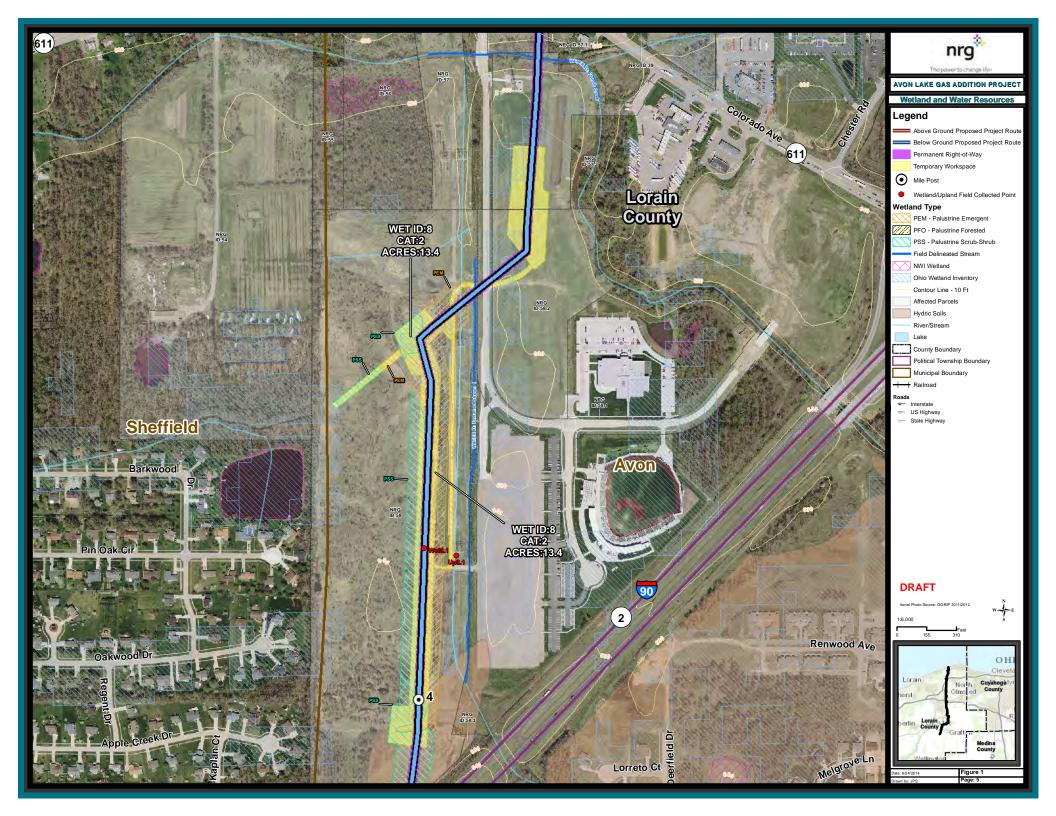


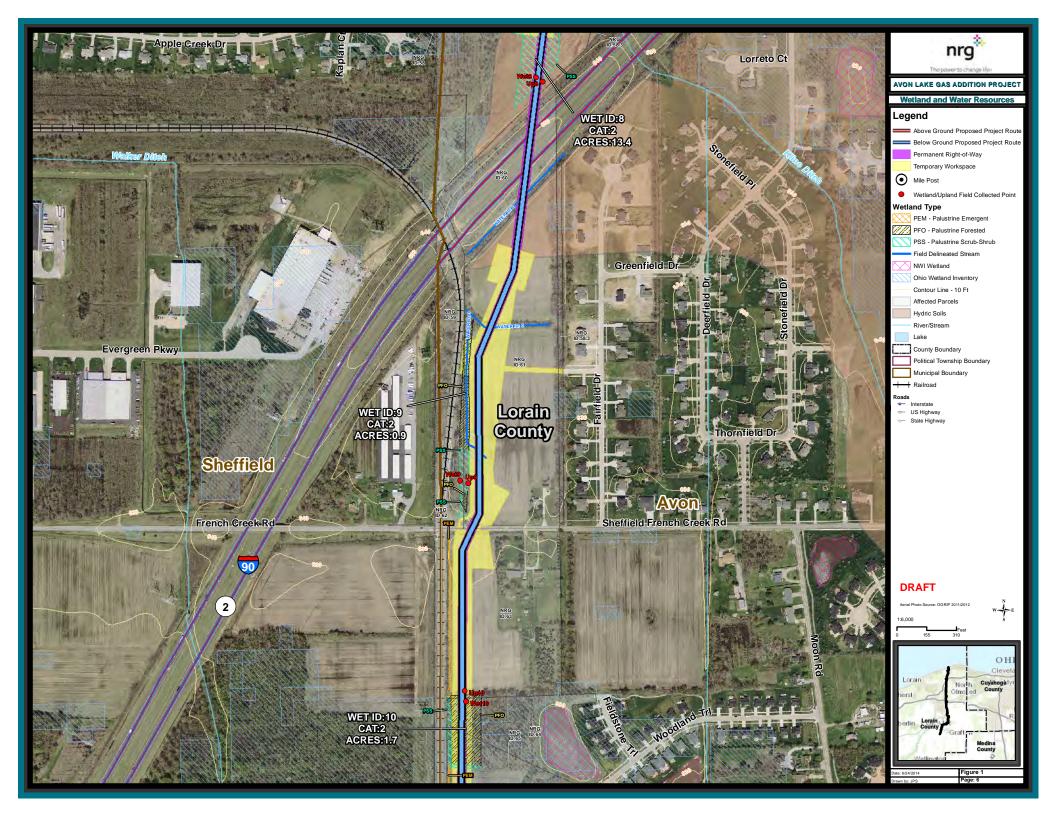


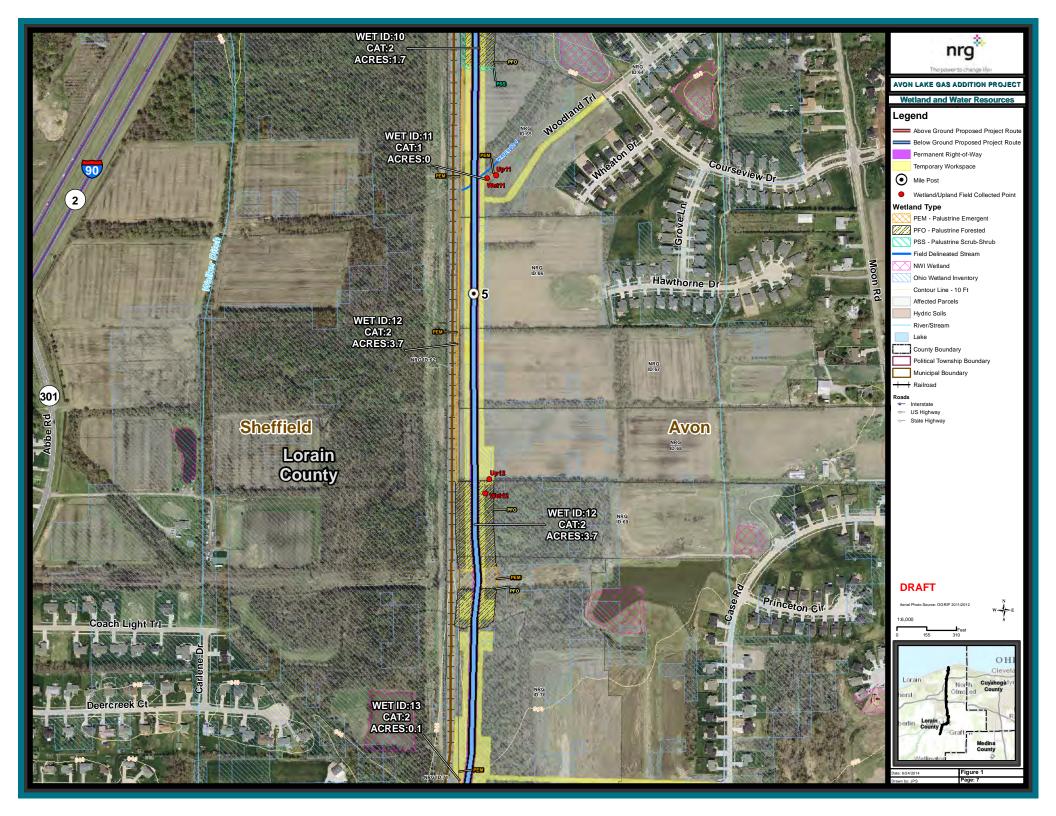












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Summary: Application of NRG Ohio Pipeline Company LLC continued - Attachment I (Part 3) electronically filed by Teresa Orahood on behalf of Sally Bloomfield