

Thursday, April 10, 2025 11:52:20 AM DRAWING: O:\Projects\Longmont\8741117-874\1007\CAD\SheetFiles\PAGE 1 EXHIBIT F.DWG LAYOUT: PAGE 1 USER NAME: WEATHERL LAURA

SEED MIX FOR UPLAND AREAS

Common Name	Scientific Name	Variety	% of Mix	PLS Application Rate (lbs/ac)
Western Wheatgrass	Agropyron smithii	Amiba	17.00%	1.74
Sideoats Grama	Bouteloua curtipendia	Butte	17.50%	1.8
Mountain Brome	Bromus marginatus	Bromar	17.00%	1.74
Prairie Sandreed	Calamovilla longifolia	Goshen	1.00%	0.48
Switchgrass	Panicum virgatum	Pathfinder	7.00%	0.67
Alkali Sacaton	Sporobolus airoides		1.00%	0.1
Needle and Thread	Stipa comata		13.00%	1.29
Northern Sweetvetch	Hedysarum boreale	Timp.	10.00%	1.02
Rocky Mountain Penstemon	Penstemon strictus	Bandera	5.00%	0.46
Scarlet Globenailow	Sphaeralcea coccinea	ARS2936	3.00%	0.26
Prairie Wildrose	Rosa Arkansana		8.50%	0.87
Total lbs/ac			100%	10.43

SEED MIX FOR TRANSITIONAL ZONE/WATER'S EDGE

Common Name	Scientific Name	Variety	% of Mix	PLS Application Rate (lbs/ac)
Western Wheatgrass	Agropyron smithii	Amiba	10.60%	1.45
Side Oats Grama	Bouteloua curtipendia	Butte	9.20%	1.24
Canada wildrye	Elymus canadensis	Mandan	18.10%	2.47
Basin wildrye	Elymus cinereus	Magnar	9.80%	1.34
Switchgrass	Panicum virgatum	Pathfinder	5.70%	0.78
Sand droseped	Sporobolus crylandrus		0.20%	0.03
Scarlet Globenailow	Sphaeralcea coccinea	ARS2936	3.80%	0.52
American vetch	Vica americana		42.60%	5.81
Total lbs/ac			100%	13.64

SEED MIX FOR WETLAND AREAS

Common name	Scientific Name	% of Mix	PLS Application Rate (lbs/ac)
American Sloughgrass	Beckmannia syzigachne	12%	0.96
Nebraska Sedge	Carex nebraskensis	10%	0.8
Saw Beak Sedge	Carex stipata	2%	0.16
Saltgrass	Distichlis stricta	5%	0.4
Spike Rush	Eleocharis palustris	5%	0.4
Canada Wildrye	Elymus canadensis	10%	0.8
Baltic Rush	Juncus balticus	2%	0.16
Torny's Rush	Juncus torrei	2%	0.16
Alkali Muhly	Muhlenbergia asperifolia	8%	0.64
Switchgrass	Panicum virgatum	12%	0.96
Hardstem Bulrush	Scirpus acutus	2%	0.16
Three-Square	Scirpus americanus	10%	0.8
Pale Bulrush	Scirpus pallidus	10%	0.8
Prairie Cordgrass	Spartina pectinata	8%	0.64
Arrowgrass	Triglochin maritima	2%	0.16
Total lbs/acre		100%	8

SEED MIX NOTES:

1. PURE LIVE SEED POUNDS PER ACRE; RATES SHOWN ARE FOR DRILL SEEDING, DOUBLE RATES FOR BROADCAST SEEDING.
2. SILT BASIN WETLANDS WILL ESTABLISH WITHOUT SEED/PLANTINGS.
3. ALL RECLAIMED AREAS, WITH THE EXCEPTION OF SILT BASIN WETLANDS WHICH WILL ESTABLISH WITHOUT SEED/PLANTINGS, WILL BE MULCHED WITH 1 TON OF CERTIFIED WEED FREE STRAW PER ACRE. MULCH SHALL BE APPLIED WITHIN 24 HOURS OF SEEDING AND CRIMPED IN PLACE.

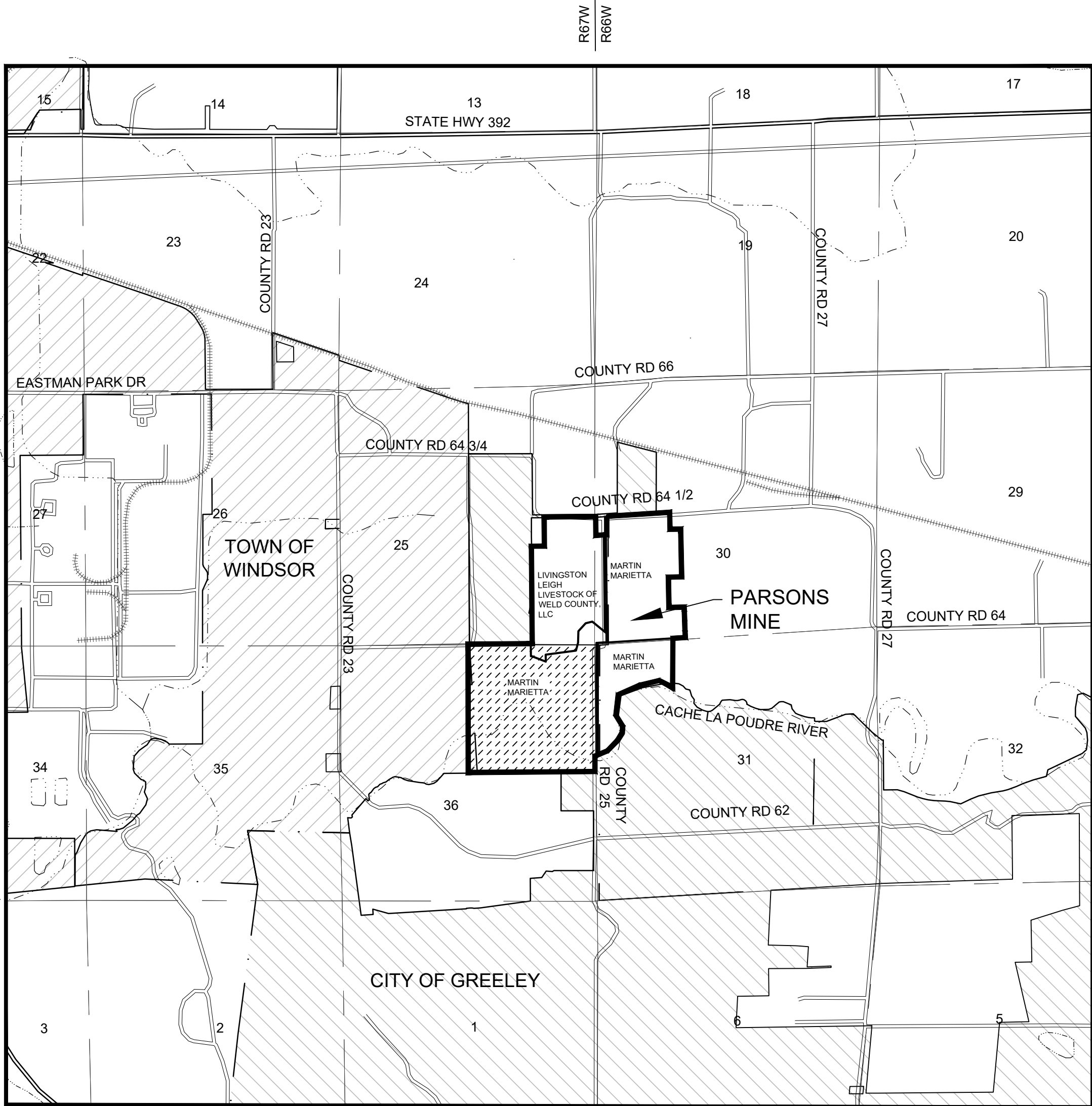
TYPICAL SHORELINE TREE AND SHRUB PLANT LIST FOR OPEN WATER PONDS

Common Name	Botanical Name	Mature Size (Height/ Spread)	Size at Planting	% of Ht./ Caliper Standard	% of Total
Peachleaf Willow	Salix Amygdaloides	30'-40'	1 1/2"	100%	40%
		25'-60'			
Cottonless Cottonwood	Populus Sargentii	70'-80'	2"	100%	60%
		50'-60'			
Chokecherry	Prunus Virginiana	15'-25'	5 gal.	100%	18.50%
		15'-20'			
American Plum	Prunus Americanus	6'-15'	5 gal.		
Common Snowberry	Symphoricarpus albus	3'-4'	5 gal.		
Golden Current	Ribes aureum	3'-6'	5 gal.		
Wild Rose	Rosa woodsii	3'-6'	5 gal.		
Coyote Willow	Salix Exigua	6'-12'	5 gal.	100%	22%
		4'-8'			
Willow Staking	-	-	-	To add thickets/habitat at water's edge	
Redtwig Dogwood	Cornus Stolonifera	6'-10'	5 gal.	100%	18.50%
		6'-10'			
Western Sandcherry	Prunus Besseyi	4'-5'	5 gal.	100%	41%
		5'-7'			

RECLAIMED USES	
TYPE OF USE	ACREAGE
UNDISTURBED AREAS (EXISTING WETLANDS, RIVER SETBACK, WCR 25 RIGHT-OF-WAY AND UNMINED AREA SURROUNDED BY WETLANDS SOUTH OF PHASE 2 AND NORTH OF PHASE 4A, AND PHASE 5C)	89.3±
MINING AREA RECLAIMED TO UPLAND OR WETLAND	82.3±
MINING AREA RECLAIMED TO OPEN WATER POND OR LINED RESERVOIR	117.5±
DISTURBED BUT NOT MINED LAND RECLAIMED TO UPLAND	91.8±
TOTAL	381±

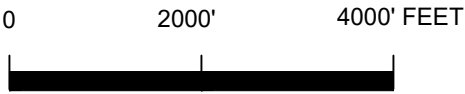
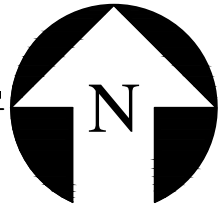
PARSONS MINE RECLAMATION PLAN MAP

A PARCEL OF LAND LOCATED IN THE NORTHEAST QUARTER OF SECTION 36, THE SOUTHEAST QUARTER OF SECTION 25, TOWNSHIP 6 NORTH, RANGE 67 WEST AND THE NORTHWEST QUARTER OF SECTION 31, THE SOUTHWEST QUARTER OF SECTION 30, TOWNSHIP 6 NORTH, RANGE 66 WEST, ALL IN THE SIXTH PRINCIPAL MERIDIAN, COUNTY OF WELD, STATE OF COLORADO



PROJECT VICINITY MAP

SCALE: 1"=2000'



LEGEND:

- COLORADO STATE BOARD OF LAND COMMISSIONERS LEASE AREA
- GREELEY CITY LIMITS
- WINDSOR TOWN LIMITS
- CITY LIMITS BOUNDARY
- WATER

CERTIFICATION:

THIS MAP WAS PREPARED BY TETRA TECH IN COOPERATION WITH MARTIN MARIETTA MATERIALS. MARTIN MARIETTA MATERIALS WILL KEEP THE DIVISION OF RECLAMATION, MINING AND SAFETY INFORMED OF ANY CHANGES TOT HE MINING OR RECLAMATION PLANS THROUGH ANNUAL REPORTS AND FILE TECHNICAL REVISIONS OR AMENDMENT APPLICATIONS AS NECESSARY THROUGHOUT THE LIFE OF THE MINE.

Julie Mikulas 4-15-2025
JULIE MIKULAS REGIONAL LAND MANAGER, WEST DIVISION
MARTIN MARIETTA MATERIALS DATE

TETRA TECH		www.tetratech.com	351 Coffman Street, Suite 200 Longmont, Colorado 80501 PHONE: (303) 772-5282 FAX: (303) 772-7039
MARK	DATE	DESCRIPTION	BY
1	10/09	INITIAL SUBMITTAL	MAM
2	1-20-10	ADEQUACY REVIEW RESPONSE	MAM
3	4-15-25	TECHNICAL REVISION	GEH

LEGAL DESCRIPTION:

A PARCEL OF LAND LOCATED IN THE NORTHEAST QUARTER OF SECTION 36, THE SOUTHEAST QUARTER OF SECTION 25, TOWNSHIP 6 NORTH, RANGE 67 WEST AND THE NORTHWEST QUARTER OF SECTION 31, THE SOUTHWEST QUARTER OF SECTION 30, TOWNSHIP 6 NORTH, RANGE 66 WEST, ALL IN THE SIXTH PRINCIPAL MERIDIAN, COUNTY OF WELD, STATE OF COLORADO AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE EAST ONE-QUARTER CORNER OF SAID SECTION 25, WHENCE THE SOUTHEAST ONE-QUARTER CORNER OF SAID SECTION 25 BEARS SOUTH 00°35'52" EAST, A DISTANCE OF 2634.91 FEET, SAID LINE FORMING THE BASIS OF BEARINGS FOR THIS DESCRIPTION; THENCE ALONG SAID LINE SOUTH 00°35'52" EAST A DISTANCE OF 30.00 FEET TO THE TRUE POINT OF BEGINNING;

THENCE NORTH 86°17'47" EAST, A DISTANCE OF 12.24 FEET; THENCE SOUTH 00°35'52" EAST, A DISTANCE OF 388.35 FEET; THENCE NORTH 86°17'47" EAST, A DISTANCE OF 225.17 FEET; THENCE NORTH 00°09'28" WEST, A DISTANCE OF 378.51 FEET; THENCE ALONG A LINE 40.00 FEET SOUTH OF AND PARALLEL WITH THE NORTH LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 30 NORTH 86°17'47" EAST, A DISTANCE OF 1238.11 FEET TO A POINT ON THE EASTERLY BOUNDARY LINE OF LOT B, CORRECTED RECORDED EXEMPTION NO. 0805-30-3 RE2870 RECORDED 4-18-2002 ACCORDING TO THE WELD COUNTY RECORDS; THENCE ALONG SAID EASTERLY BOUNDARY LINE THE FOLLOWING TEN COURSES; 1) THENCE SOUTH 01°09'01" EAST, A DISTANCE OF 350.78 FEET; 2) THENCE NORTH 88°50'59" EAST, A DISTANCE OF 219.78 FEET; 3) THENCE SOUTH 01°09'01" EAST, A DISTANCE OF 984.28 FEET; 4) THENCE SOUTH 88°50'59" WEST, A DISTANCE OF 274.15 FEET; 5) THENCE SOUTH 01°09'01" EAST, A DISTANCE OF 624.44 FEET; 6) THENCE NORTH 88°50'59" EAST, A DISTANCE OF 312.79 FEET; 7) THENCE SOUTH 02°12'44" EAST, A DISTANCE OF 86.34 FEET; 8) THENCE SOUTH 02°20'17" EAST, A DISTANCE OF 191.70 FEET; 9) THENCE SOUTH 01°58'20" EAST, A DISTANCE OF 212.95 FEET; 10) THENCE SOUTH 02°26'29" EAST, A DISTANCE OF 135.01 FEET TO A POINT ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SAID SECTION 31; THENCE ALONG SAID LINE SOUTH 86°25'00" WEST, A DISTANCE OF 256.20 FEET TO THE SOUTHWEST CORNER OF THE WEST HALF OF THE SOUTHEAST QUARTER OF SAID SECTION 30; THENCE ALONG THE EAST LINE OF THE WEST HALF OF THE NORTHWEST QUARTER OF SAID SECTION 31 SOUTH 00°20'58" WEST, A DISTANCE OF 1007.80 FEET TO A POINT ON THE SOUTHERLY LINE OF A PARCEL OF LAND RECORDED AS RECEPTION NO. 2253418, BOOK 1302, JUNE 17, 1991 IN THE WELD COUNTY RECORDS; THENCE ALONG SAID SOUTHERLY BOUNDARY LINE THE FOLLOWING NINE COURSES; 1) THENCE NORTH 63°06'14" WEST, A DISTANCE OF 308.55 FEET; 2) THENCE SOUTH 76°10'08" WEST, A DISTANCE OF 419.98 FEET; 3) THENCE SOUTH 66°20'03" WEST, A DISTANCE OF 477.17 FEET; 4) THENCE SOUTH 06°09'41" WEST, A DISTANCE OF 425.31 FEET; 5) THENCE SOUTH 31°21'08" EAST, A DISTANCE OF 265.50 FEET; 6) THENCE SOUTH 04°18'18" WEST, A DISTANCE OF 125.54 FEET; 7) THENCE SOUTH 30°30'33" WEST, A DISTANCE OF 186.53 FEET; 8) THENCE SOUTH 43°32'41" WEST, A DISTANCE OF 301.48 FEET; 9) THENCE SOUTH 67°20'04" WEST, A DISTANCE OF 280.45 FEET; THENCE ALONG A LINE 30.00 FEET WEST OF AND PARALLEL WITH THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 36 SOUTH 00°01'18" EAST, A DISTANCE OF 319.20 FEET TO A POINT ON THE SOUTH LINE OF THE NORTHEAST QUARTER OF SAID SECTION 36; THENCE ALONG SAID SOUTH LINE SOUTH 89°33'49" WEST, A DISTANCE OF 2807.48 FEET TO THE CENTER ONE-QUARTER CORNER OF SAID SECTION 36; THENCE ALONG THE WEST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 36 NORTH 00°05'20" WEST, A DISTANCE OF 2642.29 FEET TO THE NORTH ONE-QUARTER CORNER OF SAID SECTION 36; THENCE ALONG THE NORTH LINE OF THE NORTHEAST QUARTER OF SAID SECTION 36 NORTH 89°33'25" EAST, A DISTANCE OF 1320.15 FEET TO THE NORTHWEST CORNER OF THE EAST HALF OF THE NORTHEAST QUARTER OF SAID SECTION 36; THENCE ALONG THE WEST LINE OF THE EAST HALF OF THE SOUTHEAST QUARTER OF SAID SECTION 25 NORTH 00°25'35" WEST, A DISTANCE OF 2004.25 FEET; THENCE NORTH 89°32'02" EAST, A DISTANCE OF 265.00 FEET; THENCE NORTH 00°25'35" WEST, A DISTANCE OF 600.00 FEET TO A POINT ON THE SOUTH RIGHT-OF-WAY LINE OF WELD COUNTY ROAD NO. 64 1/2; THENCE ALONG SAID SOUTH RIGHT-OF-WAY LINE NORTH 89°32'02" EAST, A DISTANCE OF 1048.42 FEET TO THE TRUE POINT OF BEGINNING.

SAID PARCEL CONTAINS 380.621 ACRES MORE OR LESS.

GRAVEL MINING APPLICANT/OPERATOR:

MARTIN MARIETTA MATERIALS, INC.
ATTN: LAND MANAGER
1627 COLE BOULEVARD, SUITE 200
LAKEWOOD, CO 80401
720-245-6418

SURFACE OWNERS:

MARTIN MARIETTA MATERIALS, INC.
LIVINGSTON LEIGH LIVESTOCK OF WELD COUNTY, LLC

GROSS SITE AREA WITHIN PERMIT BOUNDARY:

381± ACRES

PROPOSED RECLAMATION AREA:

292± ACRES
(GROSS SITE AREA MINUS WETLANDS, RIVER SETBACK, WCR 25 RIGHT-OF-WAY AND UNMINED AREA SURROUNDED BY WETLANDS SOUTH OF PHASE 2 AND NORTH OF PHASE 4A, AND PHASE 5C)

NOTES:

1. TETRA TECH IS NOT A GUARANTOR OF THE PERFORMANCE OF THE WORK.
2. TETRA TECH IS NOT RESPONSIBLE FOR SAFETY, IN, ON, OR ABOUT THE PROJECT SITE, NOR FOR COMPLIANCE BY THE APPROPRIATE PARTY WITH ANY REGULATIONS RELATED THERETO.
3. TETRA TECH EXERCISES NO CONTROL OVER THE SAFETY OR ADEQUACY OF ANY EQUIPMENT, BUILDING COMPONENTS, FORMS, OR OTHER WORK AIDS USED IN OR ABOUT THE PROJECT, OR OVER THE SUPERINTENDING OF THE SAME.
4. WRITTEN SCALES ON PLAN ARE FOR FULL SIZED 24" x 36" PLANS AND DO NOT APPLY TO REDUCED PLAN SETS.
5. CONTOUR ELEVATIONS ARE BASED ON NAVD 88.
6. HORIZONTAL DATUM IS MODIFIED STATE PLANE (NORTH) COORDINATES
7. ALL FLOODWAY AND FLOODPLAIN INFORMATION IS BASED ON MAP PAGE NO. 6 OF THE FLOOD PLAIN INFORMATION STUDY, CACHE LA POUDBRE RIVER, FOR THE CITY OF GREELEY AND WELD COUNTY, DATED AUGUST 2003 AND AMENDED JUNE 2007.

SHEET INDEX:

- 1 COVER SHEET
- 2 OVERALL RECLAMATION PLAN
- 3 RECLAMATION PLAN MAP (NORTH HALF)
- 4 RECLAMATION PLAN MAP (SOUTH HALF)

MARTIN MARIETTA MATERIALS, INC.

PARSONS MINE EXHIBIT F

COVER SHEET

Project No.: 117-8741007

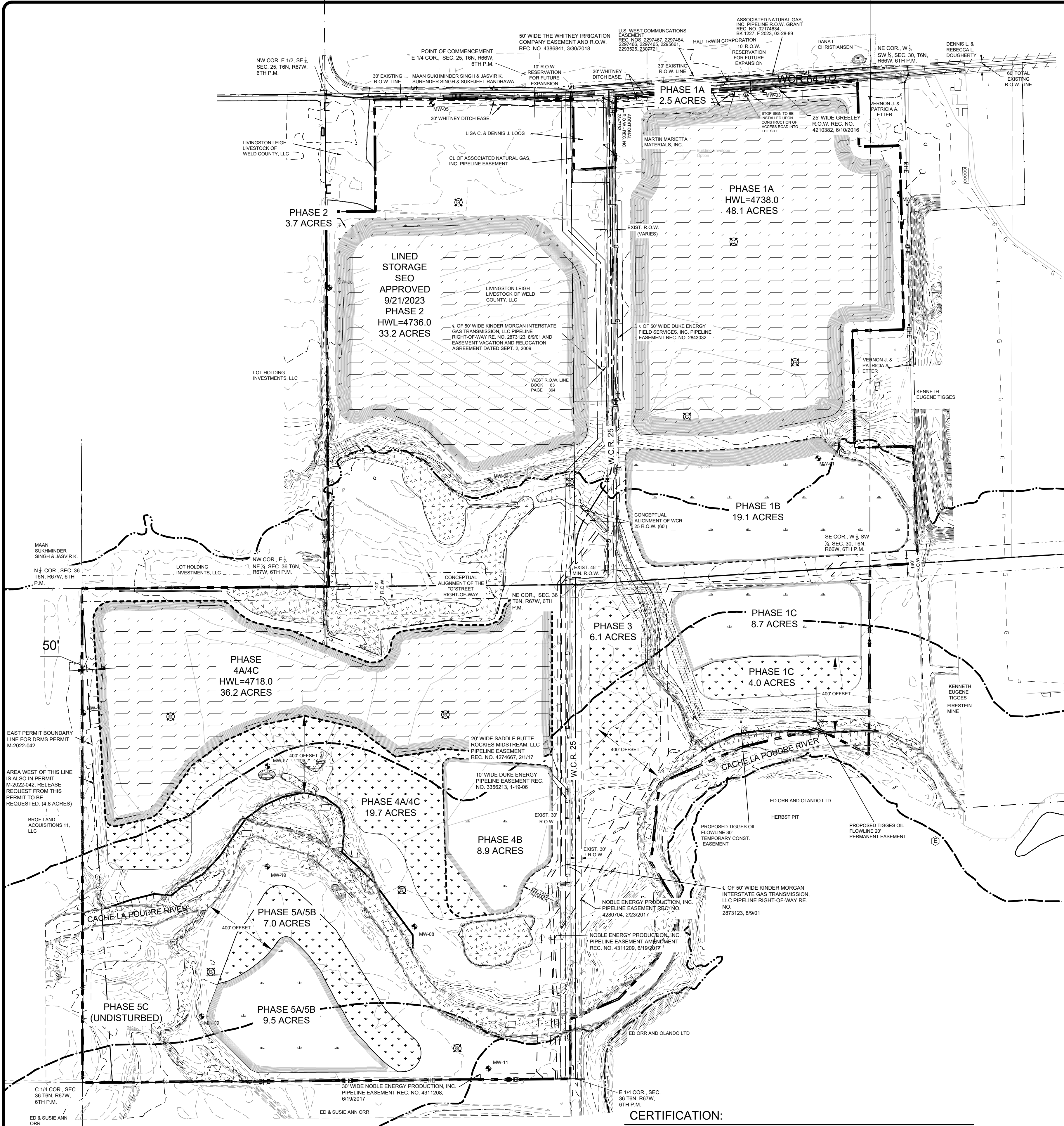
Designed By: MMM

Drawn By: GEH

Checked By: PFH

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Thursday, April 10, 2025 6:20:21 PM DRAWING: C:\Projects\Longmont\8741117-8741007\CAD\SheetFiles\PAGE 2 EXHIBIT F.DWG LAYOUT: PAGE 2 USER NAME: WEATHERL, LAURA

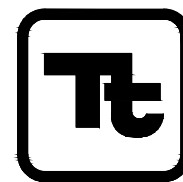


CERTIFICATION:

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Julie Mikulas
JULIE MIKULAS
REGIONAL LAND MANAGER, WEST DIVISION
MARTIN MARIETTA MATERIALS

4-15-2025
DATE



TETRA TECH

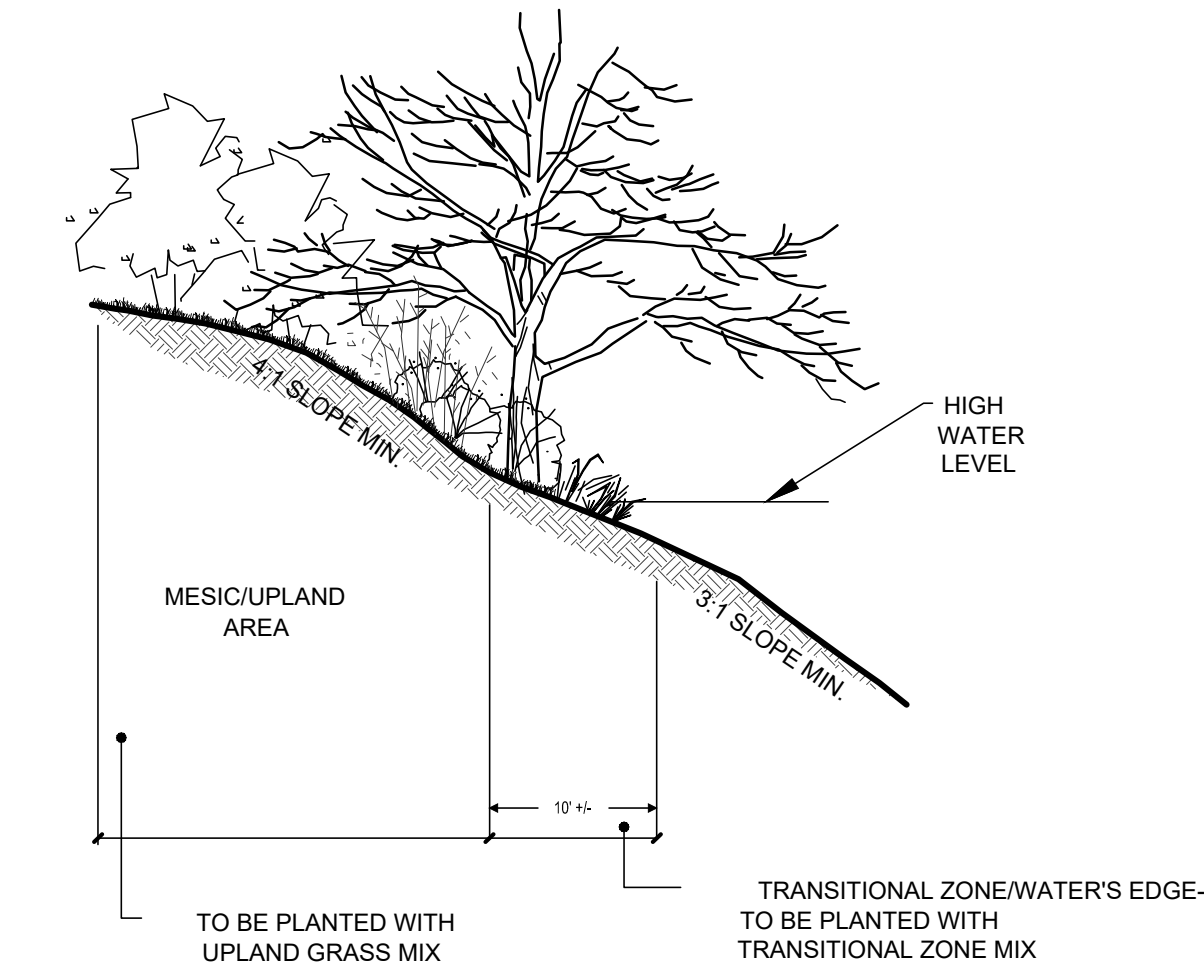
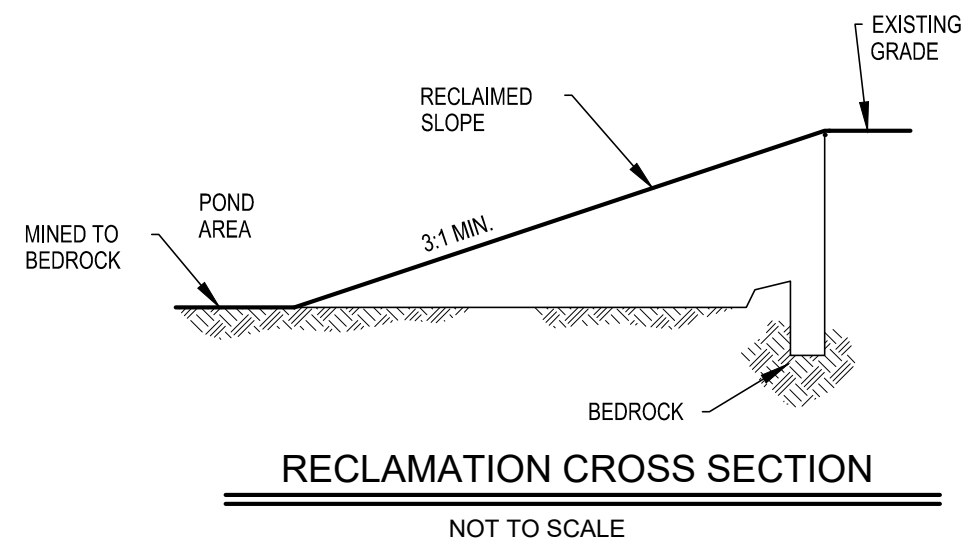
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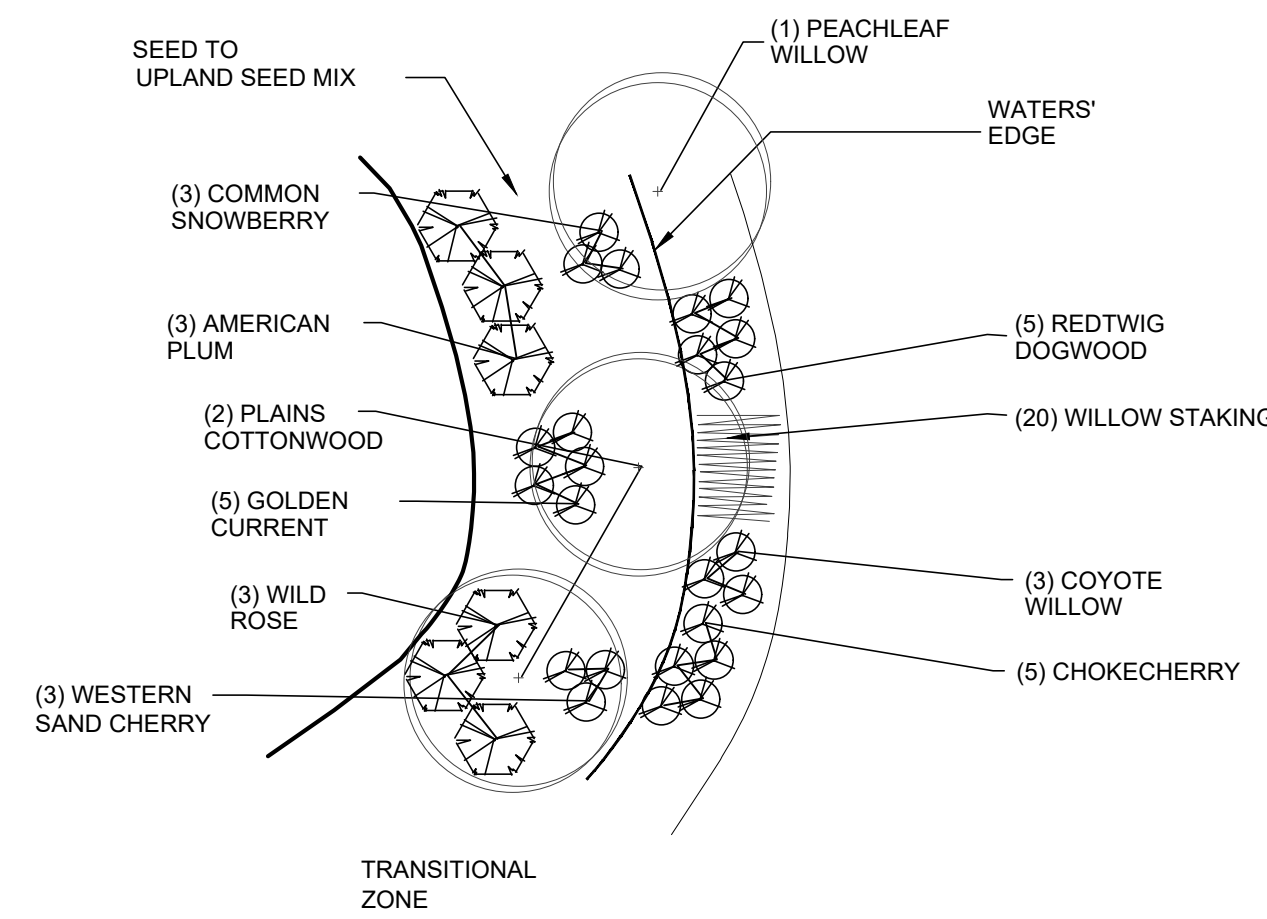
NOTES:

- ALL DISTURBED AREAS OUTSIDE OF THE MINING LIMITS SHALL BE RECLAIMED TO UPLAND.
- THE OPERATOR WILL SPREAD A MINIMUM OF 10"-12" OF TOPSOIL DURING RECLAMATION OF DESIGNATED AREAS.
- * = REVISION FOR LINED STORAGE TO BE SUBMITTED AFTER DESIGN IS DETERMINED AND A CONSULTATION FROM THE DRMS.

LEGEND	
	EXISTING CONTOURS
	PROPOSED CONTOURS
	EXISTING WETLAND
	EXISTING DITCH OR CHANNEL
	EXISTING GAS/OIL FLOWLINES
	EXISTING TELEPHONE
	OVERHEAD ELECTRIC
	EXISTING FENCE
	SECTION LINE
	TANK & OIL/GAS WELL SET BACK
	OIL/GAS DRILLING WINDOWS
	PERMIT BOUNDARY
	EXISTING EASEMENTS
	PROPOSED EASEMENTS
	RIVER EDGE
	RIVER EDGE (UPDATED 2025)
	CULVERT
	SWALE
	POWER POLE
	SECTION CORNER
	GAS/OIL WELL
	GAS/OIL TANK
	EAGLE NESTING AREA
	CACHE LA POUDRE RIVER
	RECLAIMED UPLAND
	RECLAIMED WETLAND OR SILT POND
	RECLAIMED OPEN WATER OR LINED RESERVOIR
	2003 ARMY CORPS FLOODWAY (FW)
	2003 ARMY CORPS 100 YEAR FLOOD PLAIN (FP-1)
	TYPICAL SHORELINE PLANTINGS



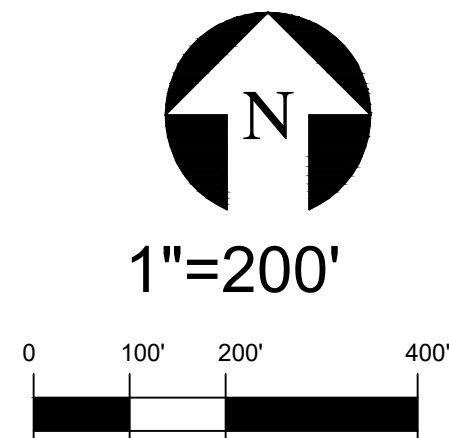
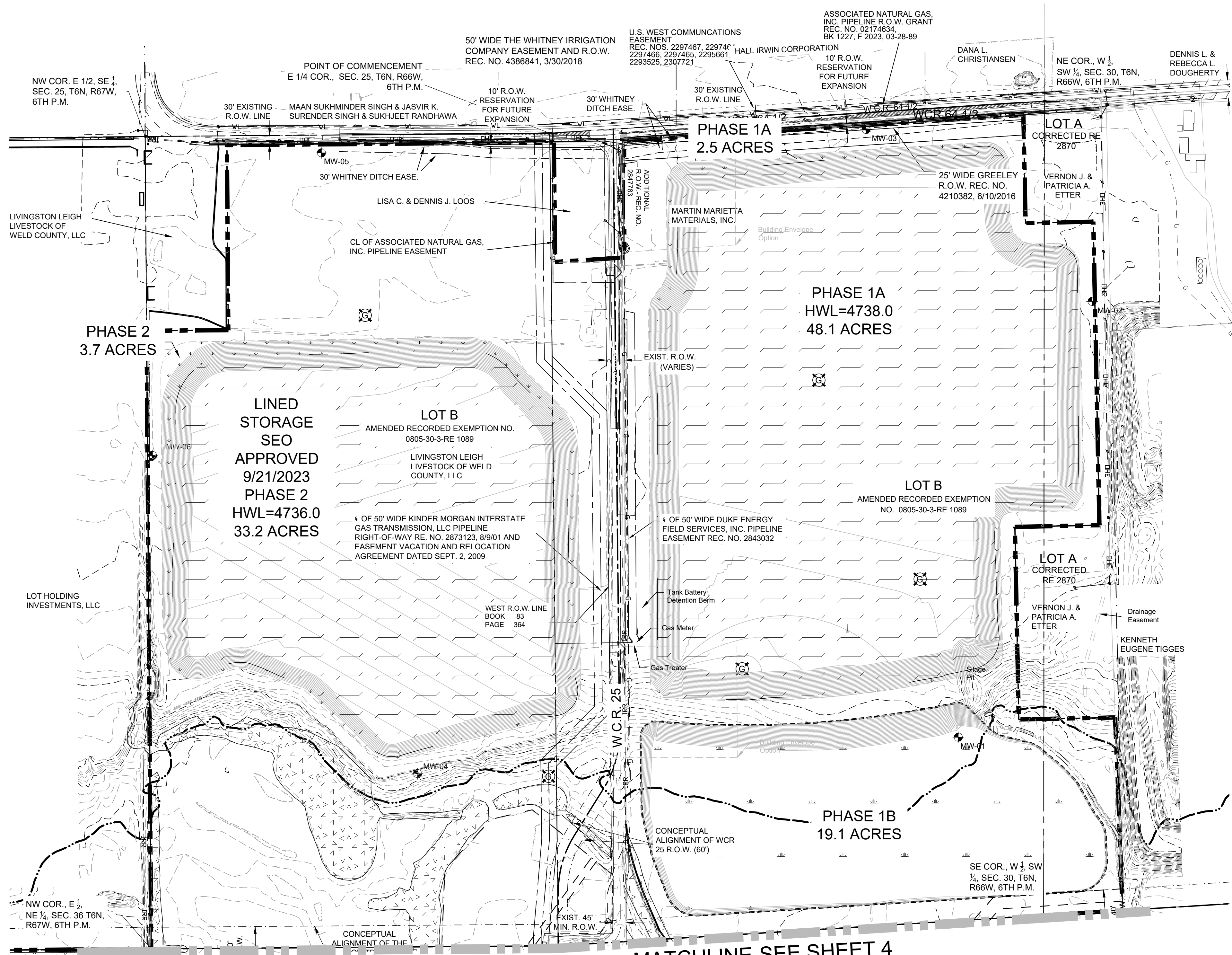
TYPICAL SHORELINE PLANTING DETAIL FOR OPEN WATER PONDS



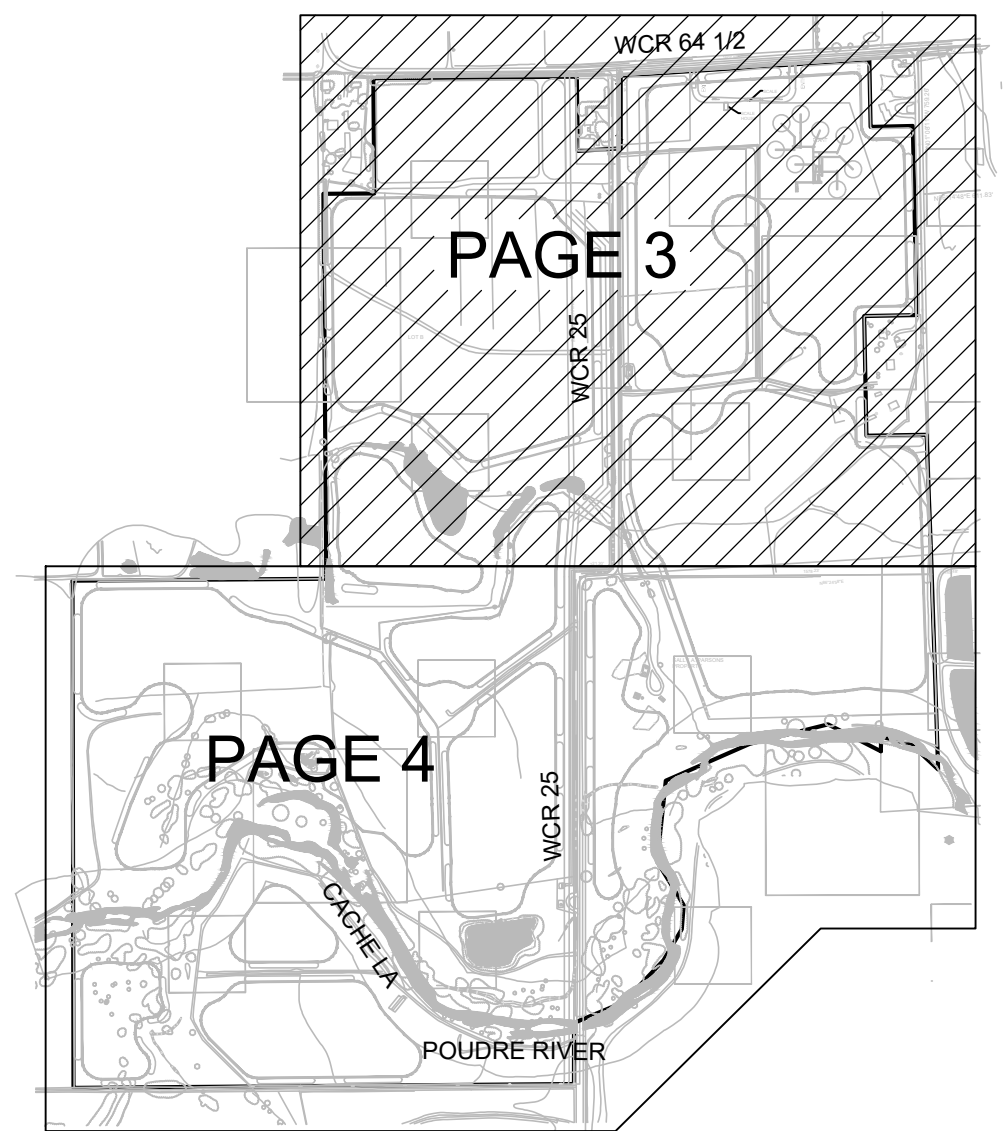
TYPICAL SHORELINE PLANTING DETAIL FOR OPEN WATER PONDS

MARK	DATE	DESCRIPTION	BY	MARTIN MARIETTA MATERIALS, INC.		Project No.:
1	10-09	INITIAL SUBMITTAL	MAM	PARSONS MINE EXHIBIT F OVERALL RECLAMATION PLAN		117-8741007
2	1-20-10	ADEQUACY REVIEW RESPONSE	MAM			Designed By: MMM
3	4-15-25	TECHNICAL REVISION	GEH			Drawn By: GEH
						Checked By: PFH
						2

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- LEGEND**
- EXISTING CONTOURS
 - PROPOSED CONTOURS
 - EXISTING WETLAND
 - EXISTING DITCH OR CHANNEL
 - EXISTING GAS/OIL FLOWLINES
 - EXISTING TELEPHONE
 - OVERHEAD ELECTRIC
 - EXISTING FENCE
 - SECTION LINE
 - TANK & GAS/OIL WELL SET BACK
 - GAS/OIL DRILLING WINDOWS
 - PERMIT BOUNDARY
 - EXISTING EASEMENT
 - PROPOSED EXISTING
 - RIVER EDGE
 - RIVER EDGE (UPDATED 2025)
 - POWER POLE
 - PLUGGED AND ABANDONED GAS WELL (APPROXIMATE LOCATION)
 - GAS/OIL WELL
 - CULVERT
 - SWALE
 - RECLAIMED UPLAND
 - RECLAIMED WETLAND OR SILT POND
 - RECLAIMED OPEN WATER OR LINED RESERVOIR
 - 2003 ARMY CORPS 100 YEAR FLOOD PLAIN (FP-1)
 - TYPICAL SHORELINE PLANTINGS



- NOTES:**
- ALL DISTURBED AREAS OUTSIDE OF THE MINING LIMITS SHALL BE RECLAIMED TO UPLAND.
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 - * = REVISION FOR LINED STORAGE TO BE SUBMITTED AFTER DESIGN IS DETERMINED AND A CONSULTATION FROM THE DRMS.

CERTIFICATION:

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Julie Mikulas
JULIE MIKULAS
REGIONAL LAND MANAGER, WEST DIVISION
MARTIN MARIETTA MATERIALS

4-15-2025
DATE



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1	10-09	INITIAL SUBMITTAL	MAM
2	1-20-10	ADEQUACY REVIEW RESPONSE	MAM
3	4-15-25	TECHNICAL REVISION	GEH

MARTIN MARIETTA MATERIALS, INC.
PARSONS MINE
EXHIBIT F
RECLAMATION PLAN MAP
(NORTH HALF)

Project No.: 117-8741007
Designed By: MMM
Drawn By: GEH
Checked By: PFH
3

