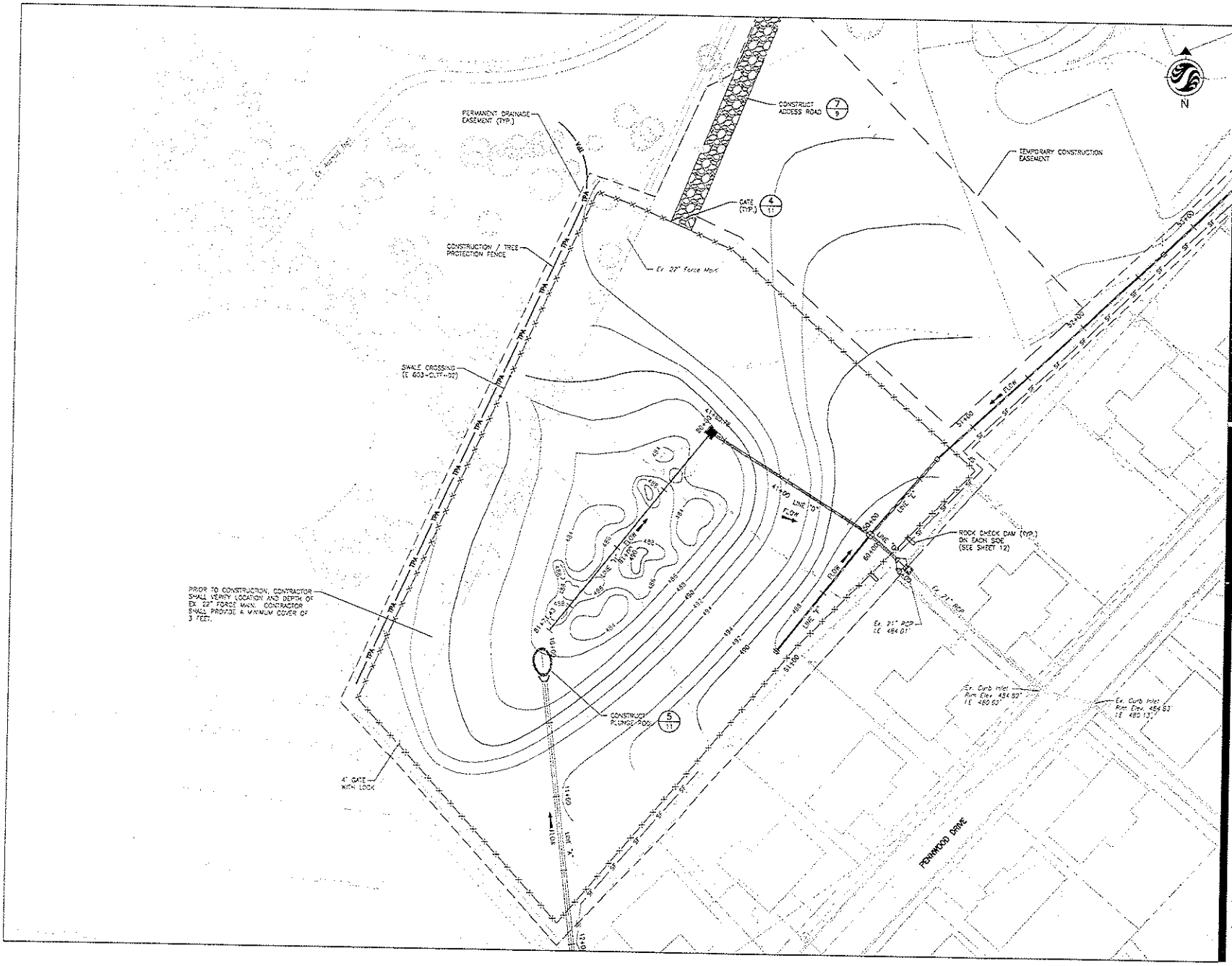
Castlewood Area
Drainage Improvement Project
Figure 2. Aerial Location Map
City of New Albany, Floyd County, IN



Stantec

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Legend

- EX. MAJOR CONTOR
- EX. MINOR CONTOR
- EX. FENCE
- EX. DITCH
- EX. PROPERTY LINE
- EX. TREE
- 500 PROPOSED MAJOR CONTOR
- 501 PROPOSED MINOR CONTOR
- PROPOSED PERMANENT EASEMENT
- PROPOSED TEMPORARY EASEMENT
- PROPOSED FENCE
- TPA PROPOSED TREE PROTECTION FENCE

Notes

1. TREES SHALL NOT BE DISTURBED BEYOND (WEST OF) TREE PROTECTION FENCE WITHOUT PRIOR APPROVAL FROM ENGINEER.
2. THE INTENT IS TO BALANCE CUT AND FILL QUANTITIES ON SITE. REMOVAL OR PLACEMENT OF MATERIAL DIFFERENT THAN SHOWN ON PLANS SHALL BE APPROVED BY ENGINEER.
3. SUCCESSFUL CONTRACTOR WILL BE PROVIDED CADD DRAWINGS WITH GRADING COORDINATES.
4. FOR STREAM OR SWALE CROSSING REFER TO INDOT STANDARD DRAWING NO. E 603-CLTF-02.

Revision	By	Appd.	YY.MM.DD

Issued	By	Appd.	YY.MM.DD

File Name: 490220-100.dwg	RBP	RVD	JOE	10.07.23
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Permit/Seal

WILLIAM R. MARSHALL REGISTERED No. 11011000 STATE OF INDIANA PROFESSIONAL ENGINEER 11/15/2023

Client/Project

City Of New Albany
Indiana

CASTLEWOOD AREA
DRAINAGE IMPROVEMENT PROJECT

Title

GRADING PLAN
PROPOSED BASIN

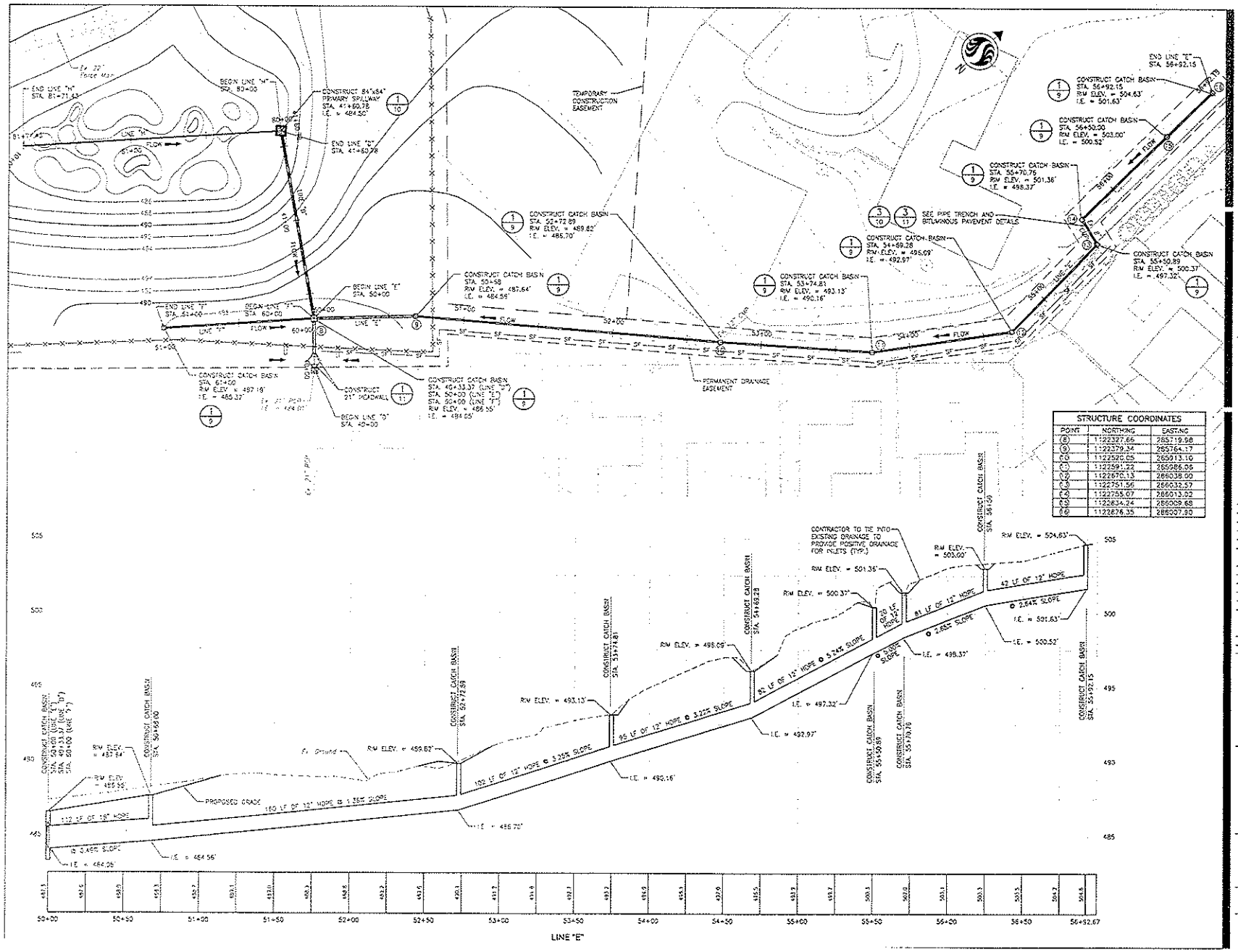
Project No. 175649022

Scale 1"=30' 0 15' 30' 60'

Drawing No.

Sheet 3 of 12

Revision 0



STRUCTURE COORDINATES

POINT	NORTHING	EASTING
(8)	1122327.66	265719.98
(9)	1122379.34	265764.17
(10)	1122520.05	265913.10
(11)	1122591.22	265986.05
(12)	1122670.13	266038.00
(13)	1122751.56	266032.57
(14)	1122755.07	266013.02
(15)	1122834.24	266009.68
(16)	1122876.35	266007.90

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- PROPOSED PERMANENT EASEMENT
- PROPOSED TEMPORARY EASEMENT
- PROPOSED FENCE
- TPA — PROPOSED TREE PROTECTION FENCE

Notes

1. HDPE PIPE SHALL BE SMOOTH INTERIOR WITH CORRUGATED EXTERIOR BY ADS, N-12 HDPE, OR EQUAL.

Revision	By	Appd.	YY.MM.DD

Issued	By	Appd.	YY.MM.DD

File Name: 490220-122.dwg
Dwn. Chkd. Dsgn. YY.MM.DD

Permit-Seal

WILLIAM R. MARSHALL REGISTERED INDIANA PROFESSIONAL ENGINEER

11/15/2010

Client/Project

City Of New Albany
Indiana

CASTLEWOOD AREA
DRAINAGE IMPROVEMENT PROJECT

Title

PLAN AND PROFILE -
CHURCH STORM LINE

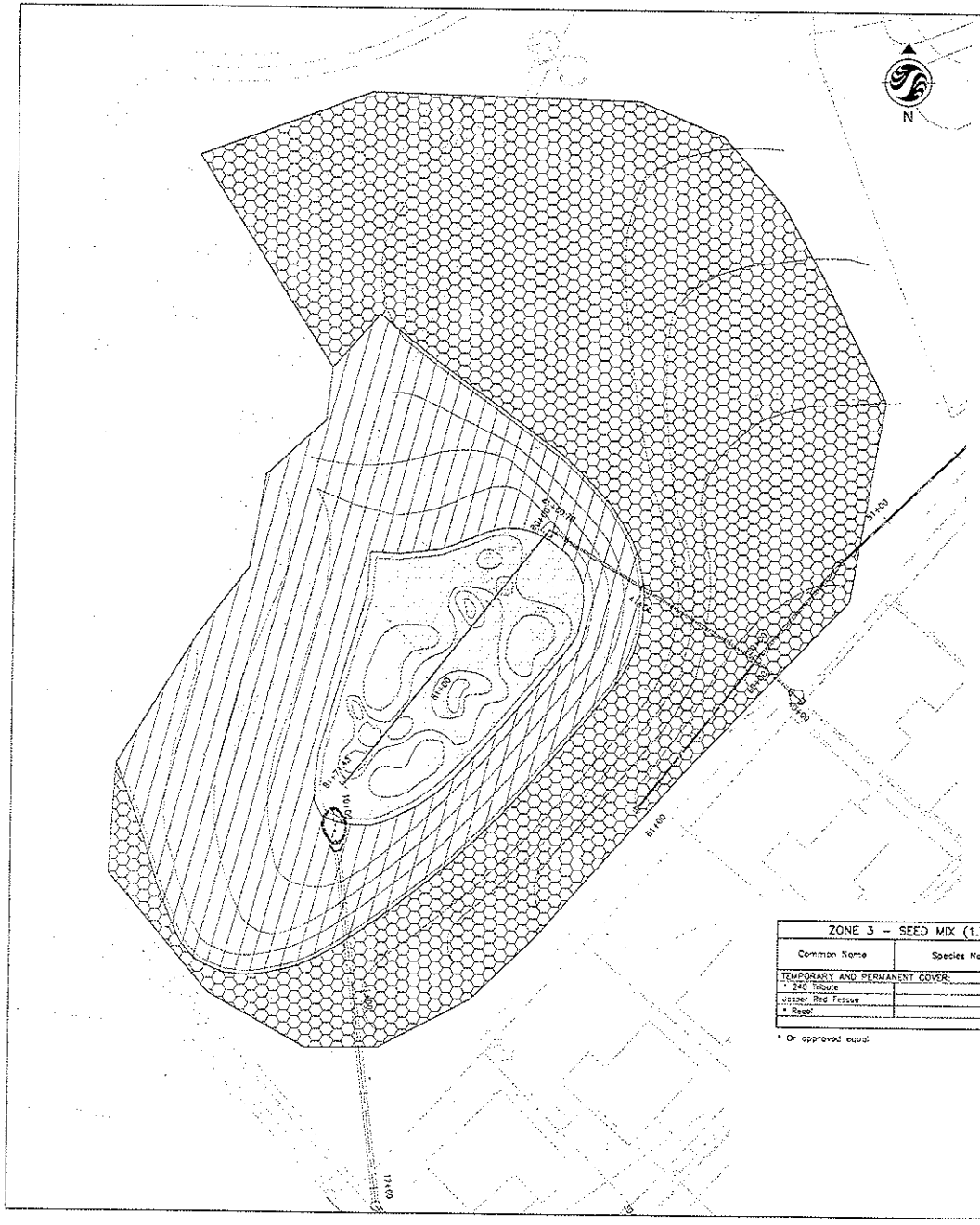
Project No. 175649002

Scale 1"=30' 0 15' 30' 60'

Drawing No.

Sheet 5 of 12

Revision 0



ZONE 1 – SEED MIX (0.32 acre)

JFNew's Stormwater Seed Mix (Or Approved Equal)

Common Name	Species Name	Ounces of PLS per Acre
PERMANENT GRASSES/SEDGES SEEDING SCHEDULE:		
Crested Oval Sedge	Carex cristatella	2
Bottlebrush Sedge	Carex lurida	4
Brown Fox Sedge	Carex vulpinoidea	12
Virginia Wild Rye	Elymus virginicus	24
Fowl Manna Grass	Glyceria striata	2.5
Common Rush	Juncus effusus	2
Torrey's Rush	Juncus torreyi	0.25
Rice Cut Grass	Leersia oryzoides	2
Switch Grass	Panicum virgatum	16
Dark Green Rush	Scirpus atrovirens	2
Wool Grass	Scirpus cyperinus	1
River Bulrush	Scirpus fluviatilis	0.5
Great Bulrush	Scirpus validus	12
	TOTAL	80.5
PERMANENT FORBS SEEDING SCHEDULE:		
Water Plantain Mix	Alisma spp.	8.5
Swamp Milkweed	Asclepias incarnata	3
Bidens Mix	Bidens spp.	4
Sneezeweed	Helenium autumnale	4
Common Water Horehound	Lycopus americanus	0.5
Monkey Flower	Mimulus ringens	2
Obedient Plant	Physostegia virginiana	1
Pickerelweed	Pontederia cordata	8
Sweet Black-Eyed Susan	Rudbeckia subtomentosa	2
Common Arrowhead	Sagittaria latifolia	2
Wild Senna	Senna hebecarpa	2
Purple Meadow Rue	Thalictrum dasycarpum	4
	TOTAL	41
TEMPORARY COVER:		
Common Oat	Avena sativa	360
Annual Rye	Lolium multiflorum	100
	TOTAL	460

ZONE 2 – SEED MIX (1.26 acre)

JFNew's Economy Prairie Seed Mix (Or Approved Equal)

Common Name	Species Name	Ounces of PLS per Acre
PERMANENT GRASSES/SEDGES SEEDING SCHEDULE:		
Big Bluestem	Andropogon gerardii	32
Side-Oats Grama	Bouteloua curtipendula	35
Prairie Sedge Mix	Carex spp.	2
Canada Wild Rye	Elymus canadensis	32
Switch Grass	Panicum virgatum	5
Little Bluestem	Schizachyrium scoparium	48
Indian Grass	Sorghastrum nutans	35
	TOTAL	191
PERMANENT FORBS SEEDING SCHEDULE:		
Common Milkweed	Asclepias syriaca	1
Butterfly Weed	Asclepias tuberosa	2
Smooth Blue Aster	Aster laevis	0.5
New England Aster	Aster novae-angliae	1.5
Partridge Pea	Chamaecrista fasciculata	24
Sand Coreopsis	Coreopsis lanceolata	10
Broad-Leaved Purple Coneflower	Echinacea purpurea	15
False Sunflower	Heliopsis helianthoides	0.5
Wild Lupine	Lupinus perennis	1
Wild Bergamot	Monarda fistulosa	0.5
Common Mountain Mint	Pycnanthemum virginianum	1
Yellow Coneflower	Ratibida pinnata	7
Black-Eyed Susan	Rudbeckia hirta	16
	TOTAL	80
TEMPORARY COVER:		
Common Oat	Avena sativa	720
Annual Rye	Lolium multiflorum	200
	TOTAL	920

ZONE 3 – SEED MIX (1.79 acre)

Common Name	Species Name	Pounds of PLS per Acre
TEMPORARY AND PERMANENT COVER:		
* 240 Tribute		55
Jasper Red Fescue		20
* Regal		35
	TOTAL	150

* Or approved equal.

ZONE 1 – AT OR BELOW ELEVATION 486 (0.29 acre)

Common Name	Species Name	Approx. Spacing	Relative Frequency (%)	Total # Plantings
BARE ROOT SEEDLINGS – SHRUBS				
Buttonbush	Cephalanthus occidentalis	20 x 20	20	11
Silky Dogwood	Cornus amomum	20 x 20	20	11
Alternate-leaf Dogwood	Cornus alternifolia	20 x 20	10	6
Elderberry	Sambucus canadensis	20 x 20	10	6
Spice Bush	Lindera benzoin	20 x 20	20	10
Arrowwood Viburnum	Viburnum dentatum	20 x 20	20	10
		TOTAL	100	54
BARE ROOT SEEDLINGS – TREES				
Swamp White Oak	Quercus bicolor	26 x 26	15	6
Pin Oak	Quercus palustris	26 x 26	25	8
Green Ash	Fraxinus pennsylvanica	26 x 26	25	8
Sweetgum	Liquidambar styraciflua	26 x 26	20	7
Yellow Birch	Betula alleghaniensis	26 x 26	15	6
		TOTAL	100	35

**Planting rate based on 185 stems per acre for shrubs and 120 stems per acre for trees

NOTE: All shrubs and trees shall be bare root seedlings, minimum 18" tall.
All shrubs and tree species shall be distributed in a random pattern.

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Legend

PLANTING ZONE 1

PLANTING ZONE 2

PLANTING ZONE 3
(INCLUDES ALL DISTURBED AREAS)

Notes

Revision	By	Appr.	YY.MM.DD

Issued	By	Appr.	YY.MM.DD
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	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Permit-Seal

WILLIAM R. MARSHALL REGISTERED KENTUCKY PROFESSIONAL ENGINEER

Client/Project
City Of New Albany
Indiana

CASTLEWOOD AREA
DRAINAGE IMPROVEMENT PROJECT

Title
PLANTING PLAN

Project No. 175649022

Scale 1"=30' (0, 15', 30', 60')

Drawing No.

Sheet 8 of 12

Revision 0