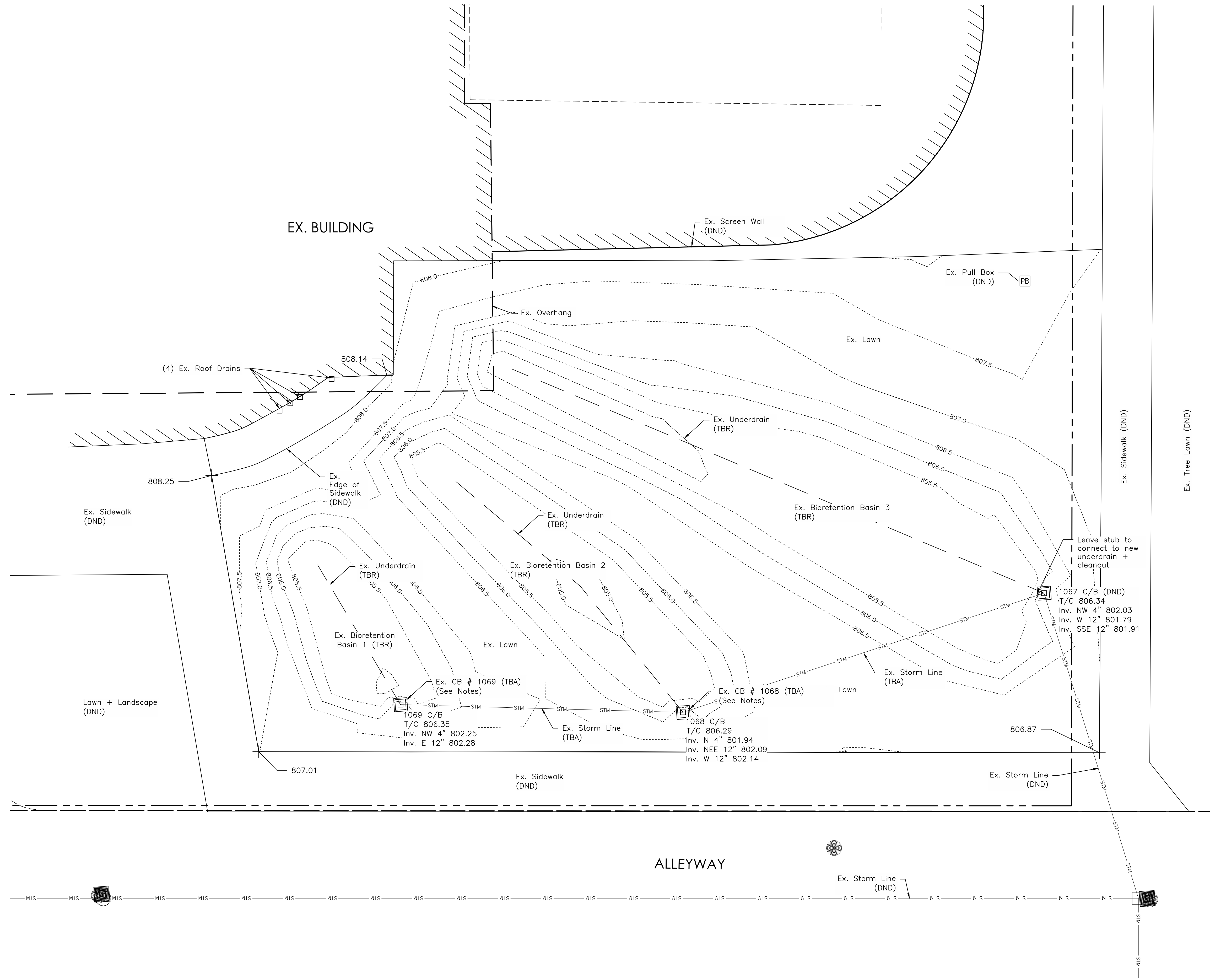


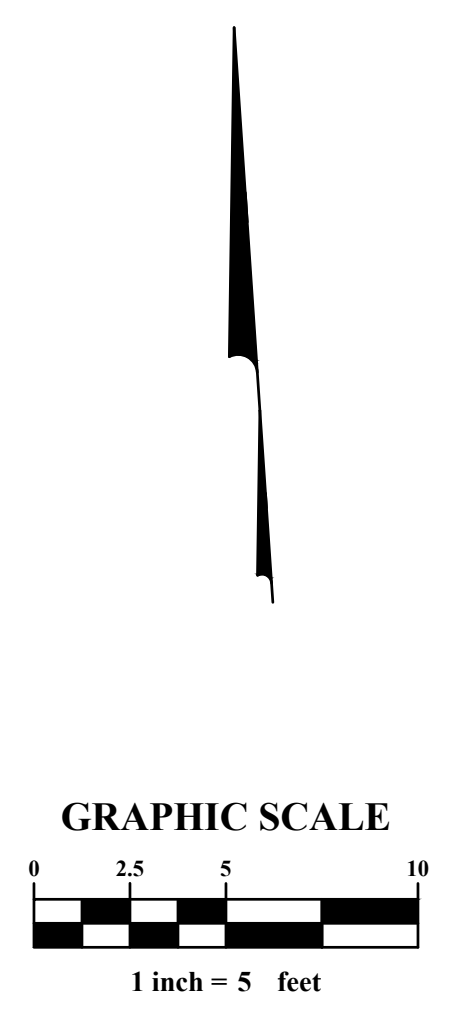
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- NOTES:**
1. Ex. sod, soil and mulch within the disturbed area shall be removed and disposed of off site.
 2. Ex. bioretention soil, plants, geotextile, PVC liner, and drainage stone to be removed and disposed of off site
 3. Ex. storm catch basins to be abandoned shall be filled with clean #2 aggregate. Cover Catch Basin with geotextile filter fabric and 4"-6" of topsoil and sodded lawn.

- LEGEND**
- 808.00 --- Ex. Contours
 - 808.5 --- Ex. Contours
 - 808.14 Ex. Spot Elevation
 - (TBR) To Be Removed
 - (DND) Do Not Disturb
 - (TBA) To Be Abandoned
 - STM — Ex. Storm
 - Ex. Catch Basin

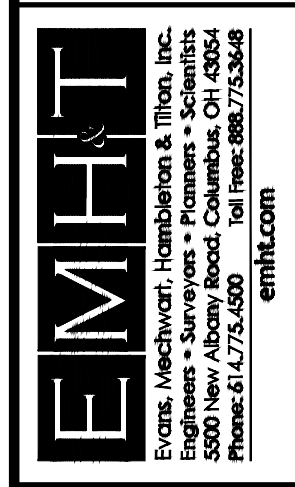
N CASSINGHAM ROAD



MARK	DATE	DESCRIPTION

CITY OF BEXLEY

CITY OF BEXLEY, FRANKLIN COUNTY, OH
STORMWATER IMPROVEMENT PLAN
FOR
BEXLEY POLICE FACILITY
BIORETENTION BASINS
EXISTING CONDITIONS PLAN

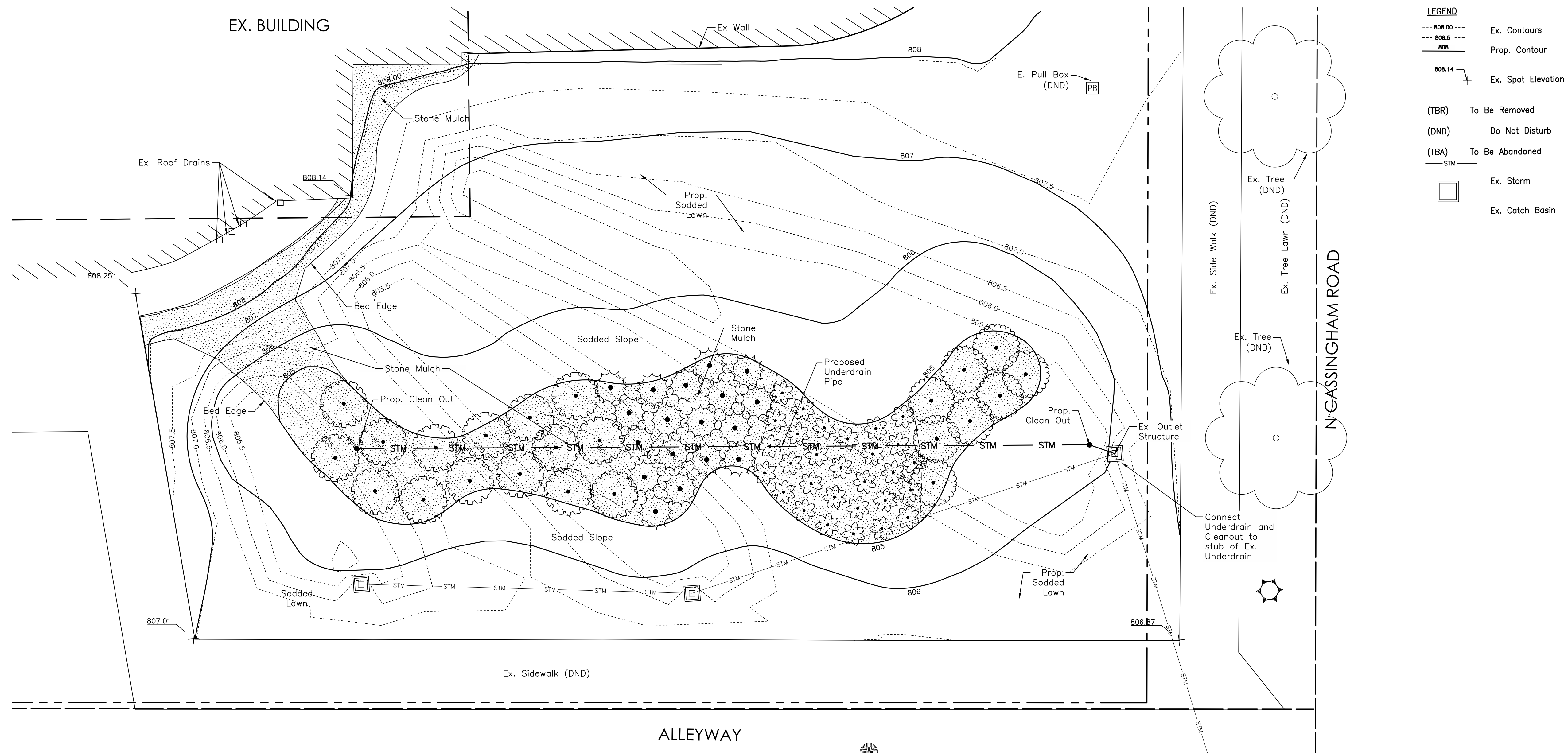


DATE
August 21, 2019

SCALE
1" = 5'

JOB NO.
20180390

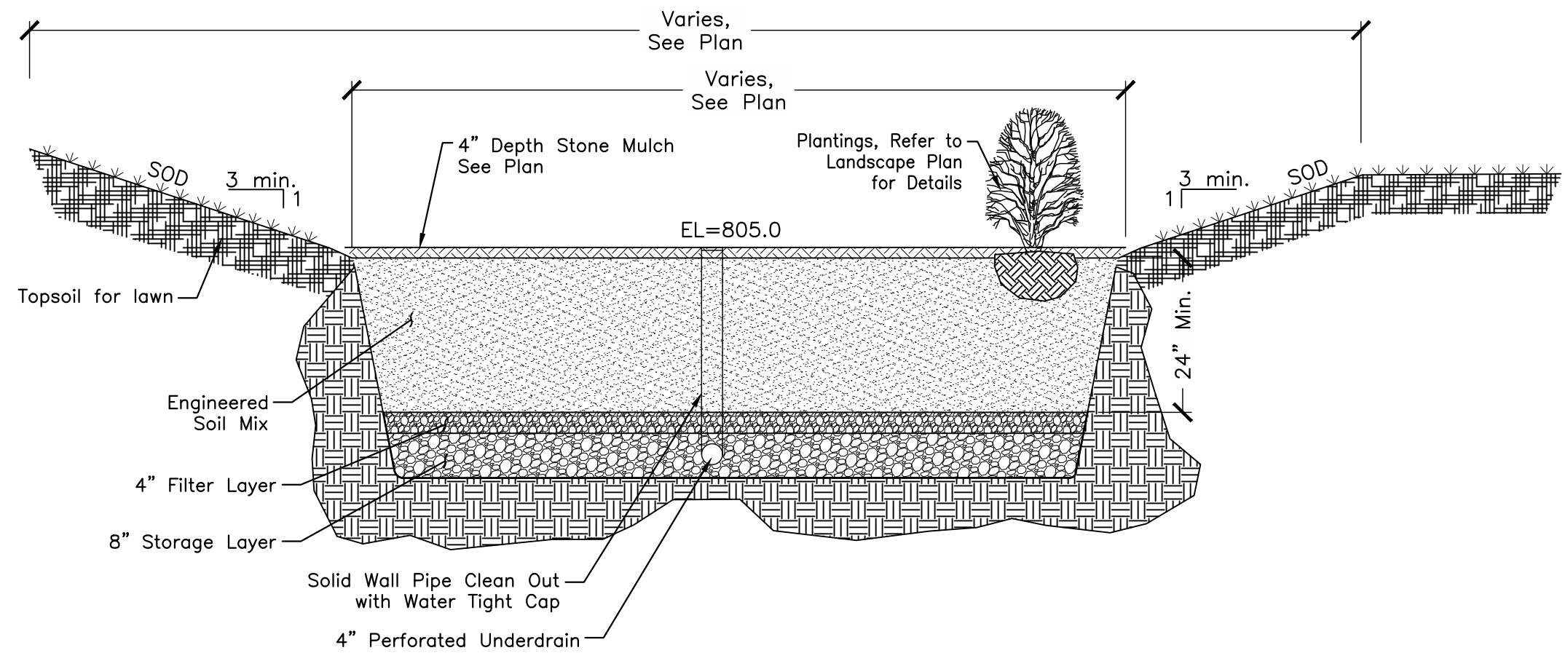
SHEET
1/5



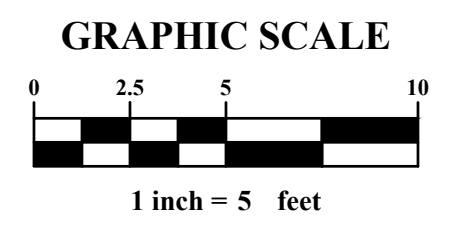
- LEGEND**
- 808.00 --- Ex. Contours
 - 808.5 --- Prop. Contour
 - 808.14 Ex. Spot Elevation
 - (TBR) To Be Removed
 - (DND) Do Not Disturb
 - (TBA) To Be Abandoned
 - STM --- Ex. Storm
 - Ex. Catch Basin

PLANT SCHEDULE BIORETENTION

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION
	15	Aronia melanocarpa 'Morton'	Iroquis Beauty Black Chokeberry	24" Ht.	Cont.
PERENNIALS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION
	8	Asclepias incarnata	Swamp Milkweed	#2	Cont.
	29	Echinacea purpurea 'Kim's Knee High'	Kim's Knee High	#2	Cont.
	18	Lobelia siphilitica 'Big Blue'	Blue Lobelia	#2	Cont.



BIORETENTION BASIN WITH STONE CHANNEL DETAIL
No Scale

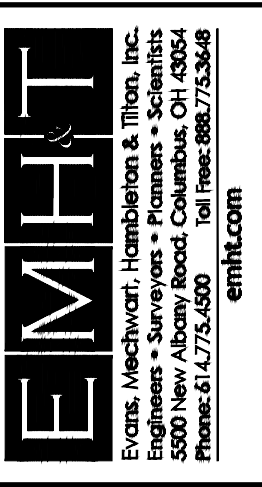


REVISIONS

MARK	DATE	DESCRIPTION

CITY OF BEXLEY

**CITY OF BEXLEY, FRANKLIN COUNTY, OH
STORMWATER IMPROVEMENT PLAN
FOR
BEXLEY POLICE FACILITY
BIORETENTION BASIN
LANDSCAPE & GRADING PLAN**



DATE
August 21, 2019

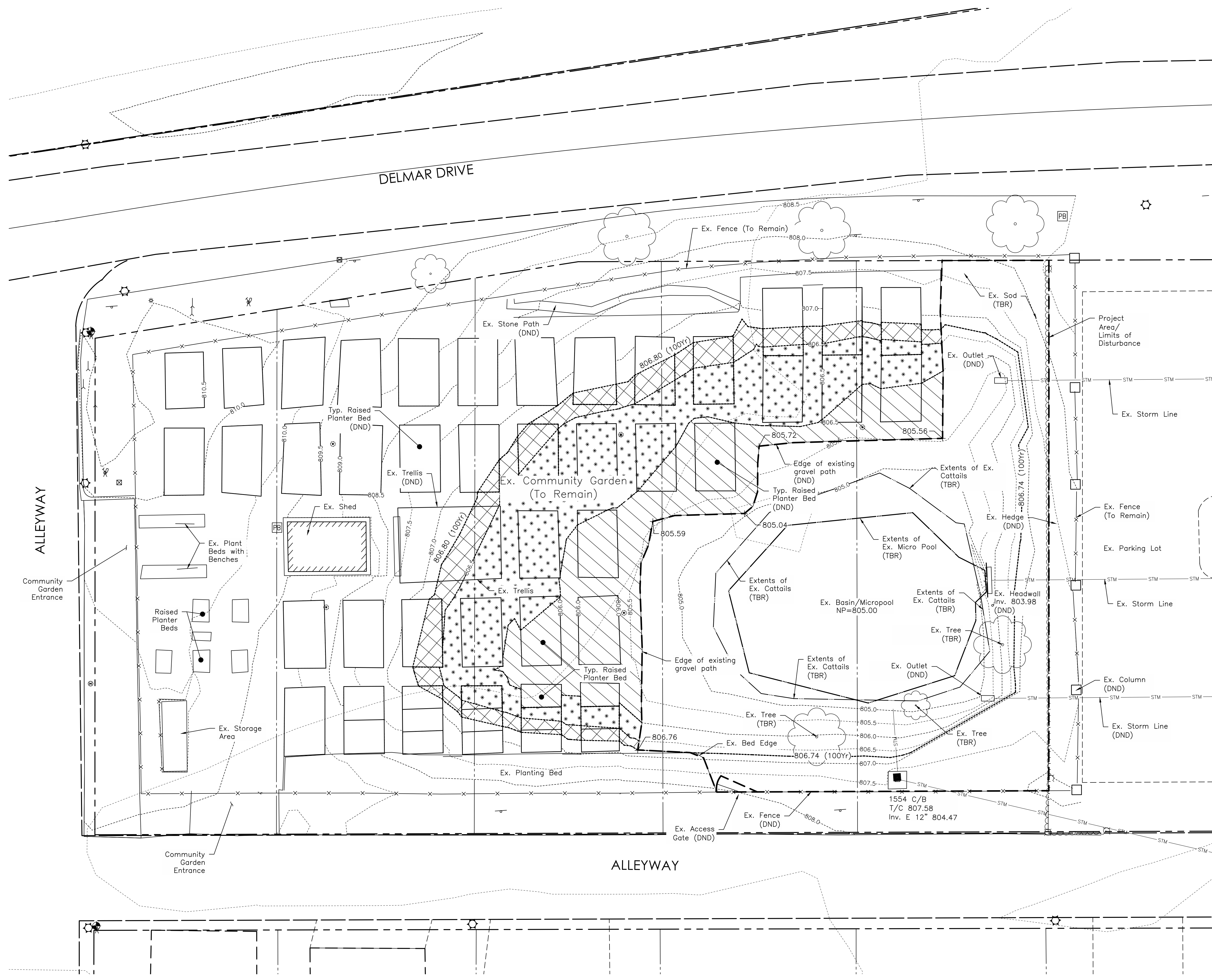
SCALE
1" = 5'

JOB NO.
20180390

SHEET
2/5

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Elevation Table


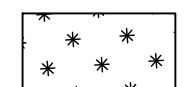

Significant Rainfall Events:

- WQ Elev = ±805.39
- 1 Year = ±805.64
- 2 Year = ±805.84
- 5 Year = ±806.09
- 10 Year = ±806.28
- 25 Year = ±806.53
- 50 Year = ±806.66
- 100 Year = ±806.80

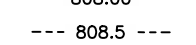
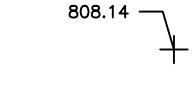



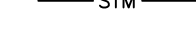

Rainfall Depths:

- 1 Year = ±2.17 inches
- 2 Year = ±2.70 inches
- 5 Year = ±3.35 inches
- 10 Year = ±3.86 inches
- 25 Year = ±4.64 inches
- 50 Year = ±5.33 inches
- 100 Year = ±6.06 inches

Gardens Underwater at:

-  5 Year Event
-  25 Year Event
-  100 Year Event

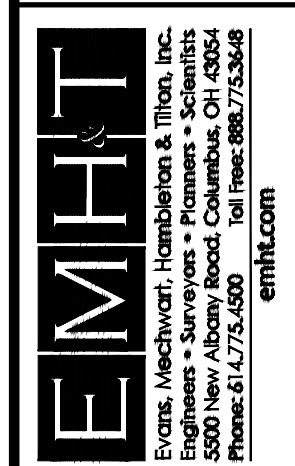
LEGEND

-  Ex. Contours
-  Ex. Spot Elevation
-  (TBR) To Be Removed
-  (DND) Do Not Disturb
-  (TBA) To Be Abandoned
-  STM Ex. Storm
-  Ex. Catch Basin

MARK	DATE	DESCRIPTION

CITY OF BEXLEY

CITY OF BEXLEY, FRANKLIN COUNTY, OH
BEXLEY POLICE FACILITY
 STORMWATER IMPROVEMENT PLAN
 FOR
COMMUNITY GARDEN
 EXISTING CONDITIONS PLAN

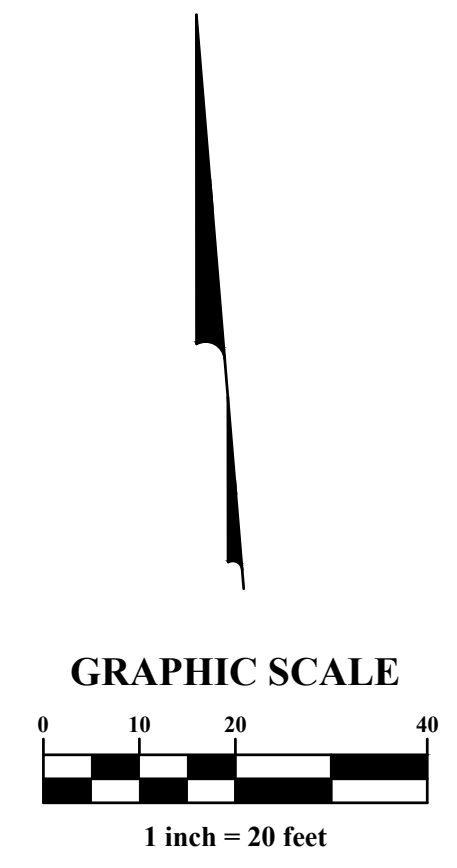


DATE
August 21, 2019











SCALE
1" = 20'

JOB NO.
20180390

SHEET
3/5



PLANT SCHEDULE

GRASSES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION
	7	Panicum virgatum 'Heavy Metal'	Heavy Metal Switch Grass	#2	Cont.
PERENNIALS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION
	16	Echinacea purpurea 'Kim's Knee High'	Kim's Knee High	#2	Cont.
	14	Labelia siphilitica 'Big Blue'	Blue Labelia	#2	Cont.
	7	Solidago shortii 'Solar Cascade'	Solar Cascade Goldenrod	#2	Cont.
MICROPOOL	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION
	26	Alisma subcordatum	Water Plantain	#1	Cont.
	29	Nymphaea odorata	American White Water Lily	#1	Cont.
	34	Peltandra virginica	Arrow Arum	#1	Cont.
	11	Pontederia cordata	Pickereel Weed	#1	Cont.
	24	Sagittaria latifolia	Lance-Leafed Arrowhead	#1	Cont.
	22	Schoenoplectus tabernaemontani	Softstem Bulrush	#1	Cont.

Notes:

1. Micropool plants may be supplied as bare root or containerized.
2. All sod areas within project area shall be removed and replaced with wildflower seed mix.
3. Outlet structure shall not be modified until wildflower seed mix has been established.
4. Cover all areas seeded with wildflower seed mix with erosion control materials per COC Item 671, Type B.
5. Install Wildflower Seed Mix, Nurse Crop and Annual Seed Mix per manufacturer's recommendations.
6. All seed mixes shall be supplied by Ohio Prairie Nursery (866) 569-3380 unless otherwise approved by the Owner.

Wildflower Seed Mix:

Butterfly/Hummingbird Mix by Ohio Prairie Nursery
Seeding Rate: .5 LB / 1000 S.F.

Grasses:

1. Little Bluestem (*Schizachyrium scoparium*)
2. Nodding Wild Rye (*Elymus canadensis*)
3. Side-oats Groma (*Bouteloua curtipendula*)
4. Virginia Wild Rye (*Elymus virginicus*)
5. Riverbank Wild Rye (*Elymus riparius*)

Wildflowers:

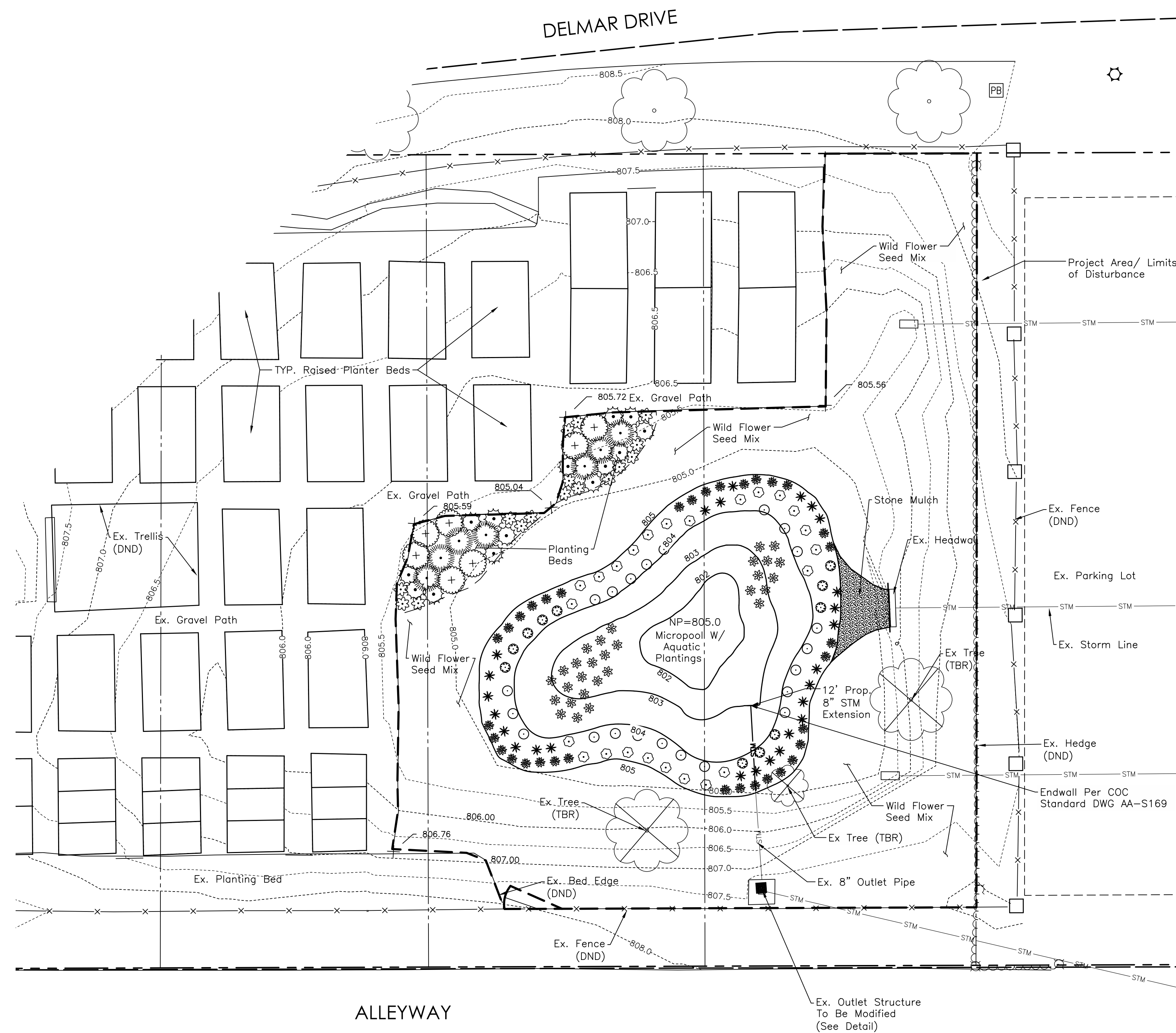
1. Purple Coneflower (*Echinacea purpurea*)
2. Ox Eye Sunflower (*Heliopsis helianthoides*)
3. Purple Prairie Clover (*Dalea purpurea*)
4. Butterfly Milkweed (*Asclepias tuberosa*)
5. Black-eyed Susan (*Rudbeckia hirta*)
6. Wild Bergamot (*Monarda fistulosa*)
7. Swamp Milkweed (*Asclepias incarnata*)
8. Dense Blazingstar (*Liatris spicata*)
9. Hollow Joe Pye (*Eupatorium fistulosum*)
10. Common Milkweed (*Asclepias syriaca*)
11. Smooth Aster (*Aster laevis*)
12. White Prairie Clover (*Dalea candida*)
13. Stiff Goldenrod (*Solidago rigida*)
14. Rattlesnake Maser (*Eryngium yuccifolium*)
15. New England Aster (*Aster novae-angliae*)

Nurse Crop:

Regreen by Ohio Prairie Nursery
Seeding Rate: 1 LB / 1000 S.F.

Annual Seed Mix:

Lemon Mint and Indian Blanket by Ohio Prairie Nursery
Seeding Rate: .25 LB / 1000 S.F.



MARK	DATE	DESCRIPTION

CITY OF BEXLEY

CITY OF BEXLEY, FRANKLIN COUNTY, OH
STORMWATER IMPROVEMENT PLAN
FOR
**BEXLEY POLICE FACILITY
COMMUNITY GARDEN**
LANDSCAPE & GRADING PLAN

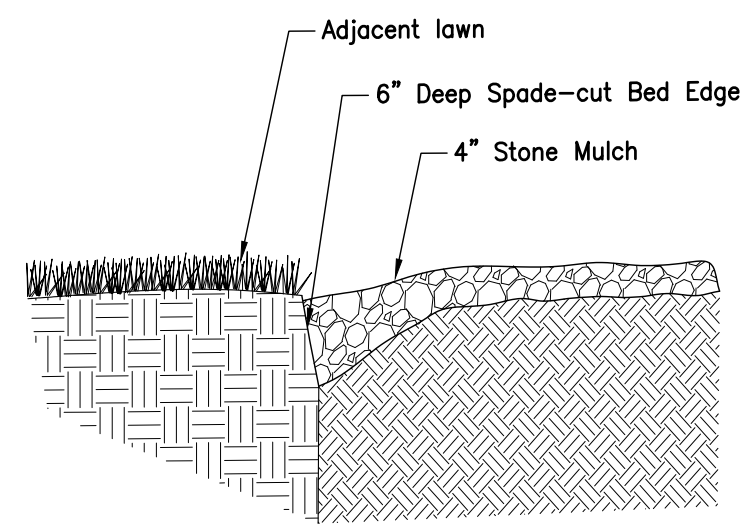
DATE
August 21, 2019

SCALE
1" = 10'

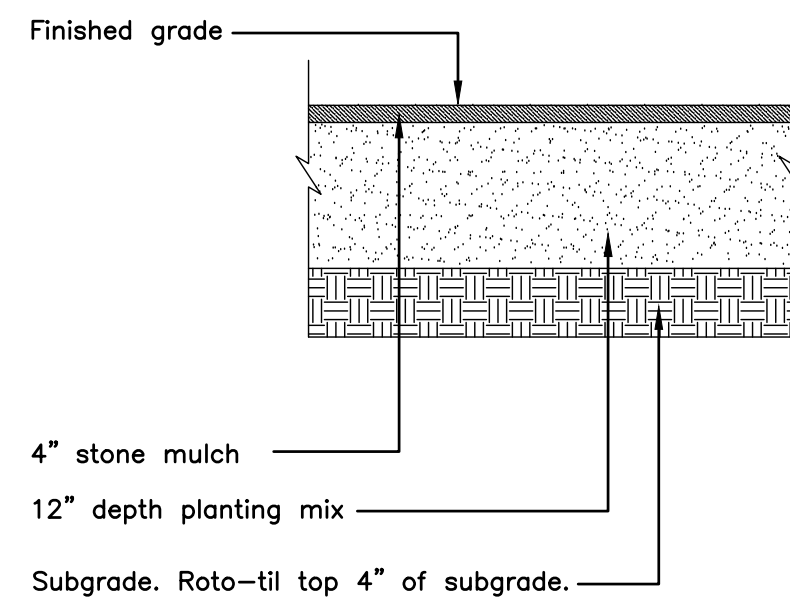
JOB NO.
20180390

SHEET
4/5

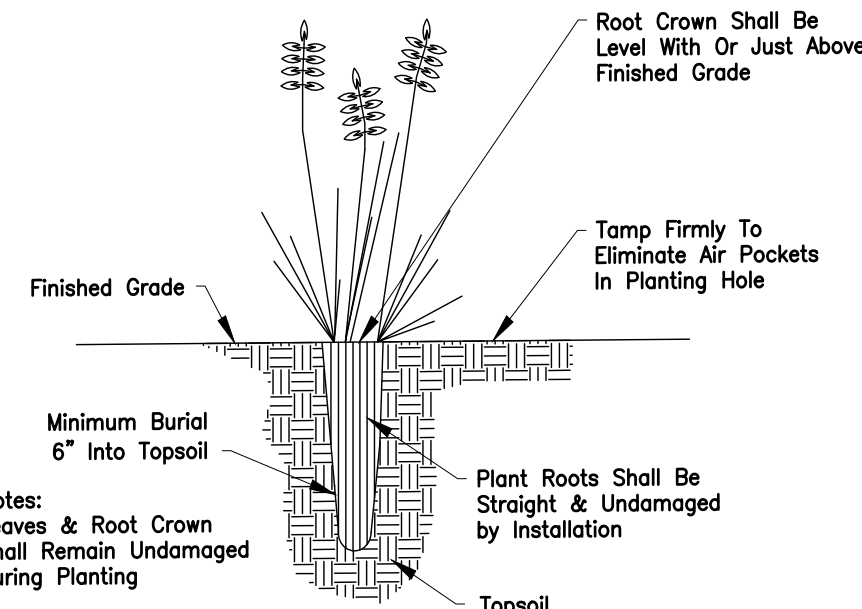
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Planting Bed Edge
No Scale



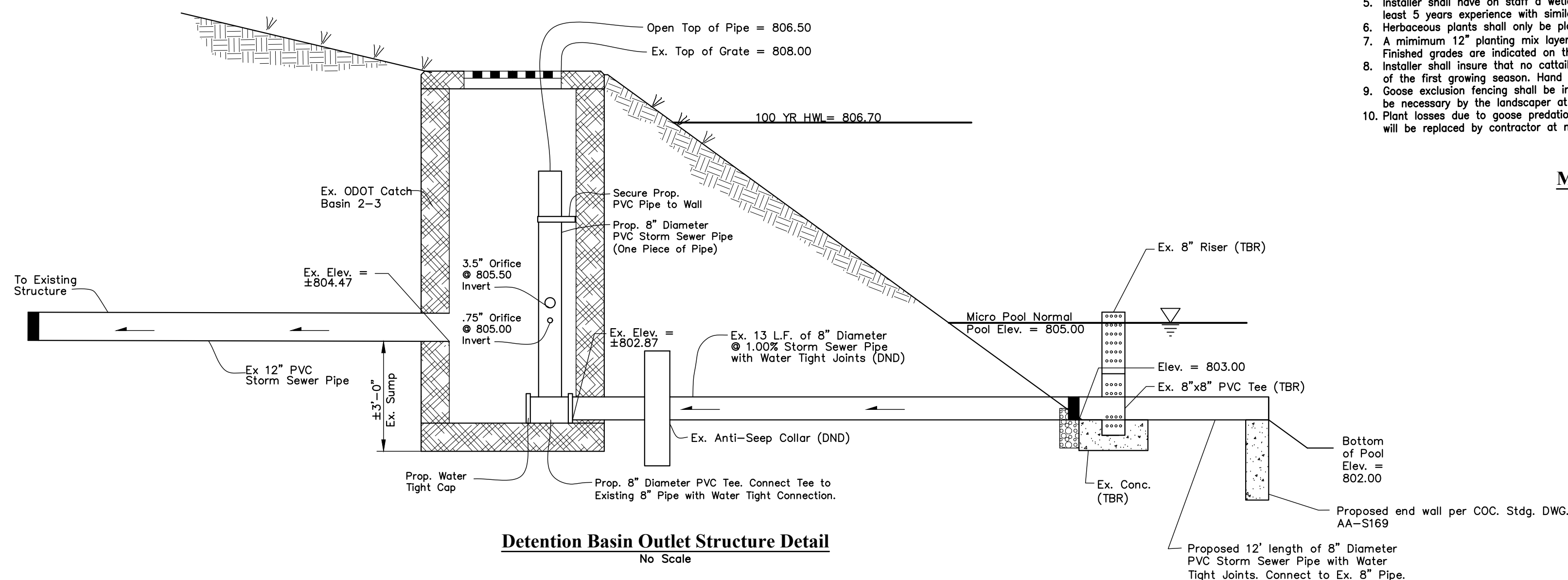
Planting Area Establishment For Upland Plantings
No Scale



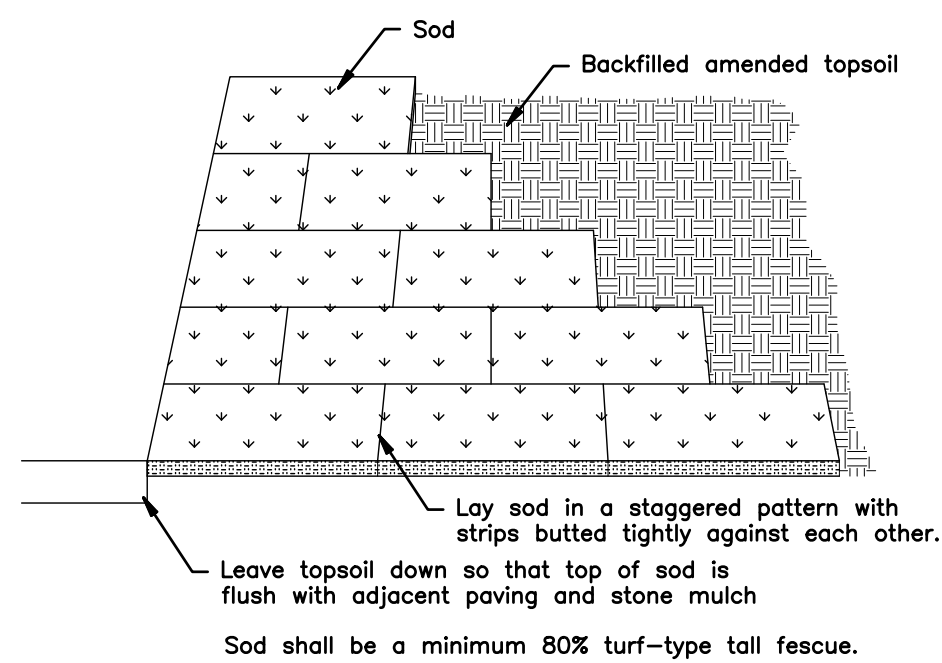
Micropool Planting
No Scale

PLANTED MICROPPOOL NOTES:

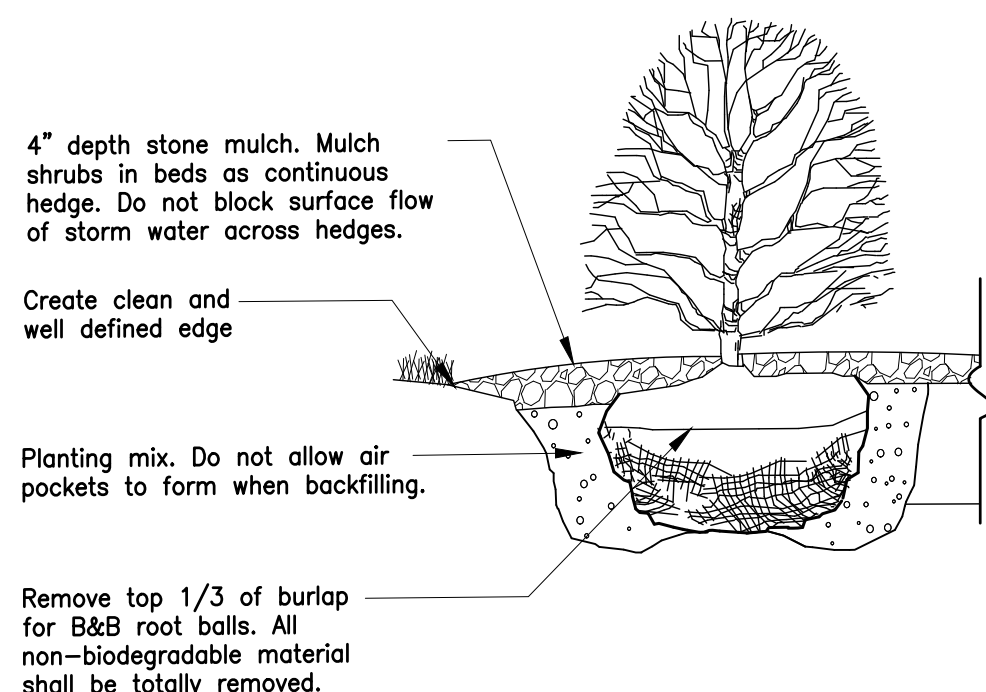
- Herbaceous plants within the micropool shall be bare root or container.
- Herbaceous plants shall not be installed until water reaches normal pool elevation and the micropool tributary area is fully stabilized. Under no circumstances shall plants be installed while the micropool is being used for temporary sediment storage during site construction.
- Under no circumstances shall the herbaceous plants be installed such that the entire plant is below the water surface.
- All plants shall be spaced as shown on the plan.
- Installer shall have on staff a wetland ecologist familiar with wetland plant installation or have at least 5 years experience with similar projects. Submit project references prior to installation.
- Herbaceous plants shall only be planted from May 1 to August 31.
- A minimum 12" planting mix layer shall be placed throughout the entirety of the planting area. Finished grades are indicated on the grading plan.
- Installer shall insure that no cattails are present within the basin during planting and at the end of the first growing season. Hand pull or chemically control all cattails.
- Goose exclusion fencing shall be installed around the perimeter of the micropool if determined to be necessary by the landscaper at the time of installation.
- Plant losses due to goose predation, a clogged outlet, vandalism, or chemical pond treatments will be replaced by contractor at not cost to the city.



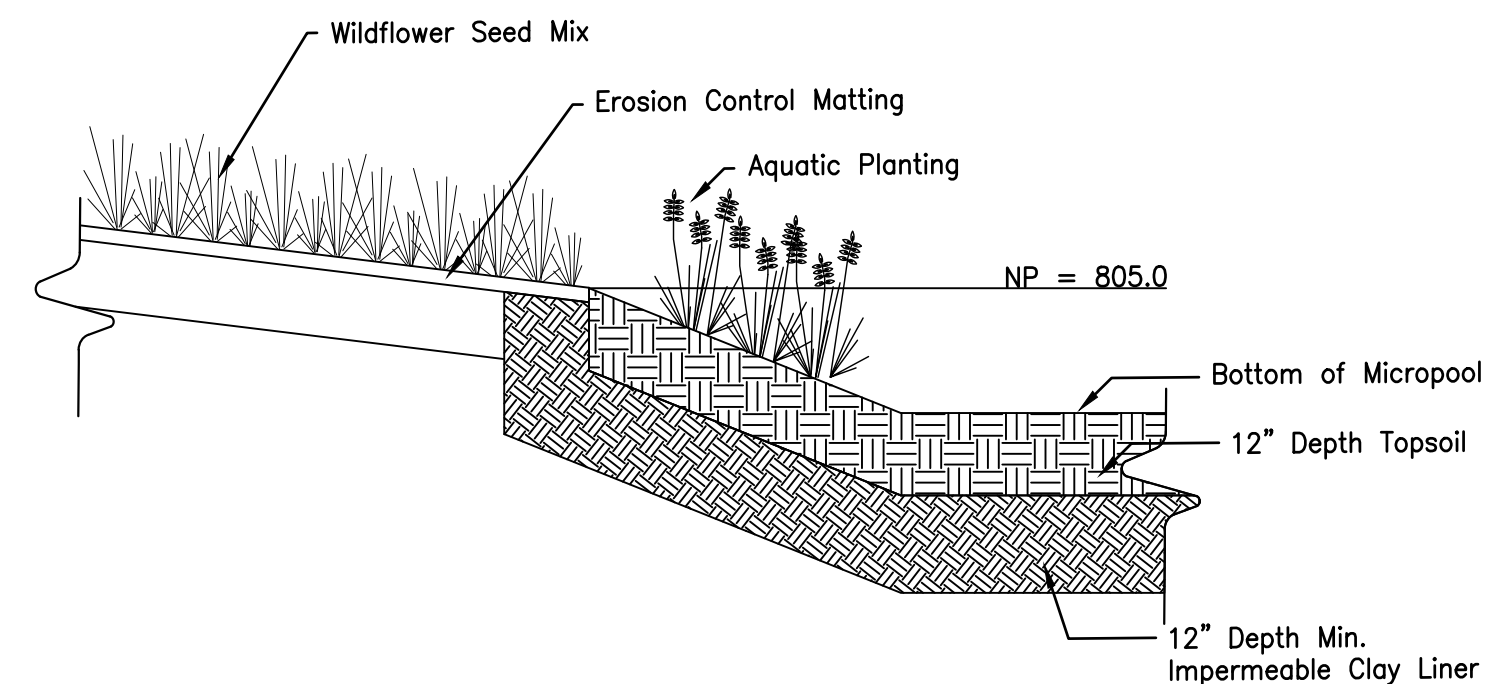
Detention Basin Outlet Structure Detail
No Scale



Sod Detail
No Scale



Shrub Planting in Stone Mulch
No Scale



Micropool Section
No Scale

GENERAL NOTES

- Prior to installation, the landscape contractor shall inspect the general site conditions and verify the subgrade, elevations, utility locations and topsoil provided by general contractor. The landscape contractor shall notify the general contractor of any unsatisfactory conditions and work shall not proceed until such conditions have been corrected and are acceptable to the landscape contractor.
- All plants shall meet or exceed standards set in the American Standard for Nursery Stock, ANSI Z60.1, current edition. All plants shall equal or exceed the measurements and sizes specified in the schedule.
- Substitutions shall only be permitted with notification and written approval from the Owner. Substituted material shall be equivalent or greater in size than the specified plant. Substituted plants shall have the same essential characteristics and growth habit of the specified plant.
- Confirm location of all utilities and subsurface drain lines prior to plant installation.
- A pre-installation conference shall be conducted prior to planting operations with Owner and Contractor present.
- Contractor may slightly field adjust plant locations as necessary to avoid utilities. Finished planting beds shall be graded to provide positive drainage.
- Irrigation system, if applicable, shall be complete and operational prior to landscape planting.
- Contractor shall repair all lawn areas disturbed during construction with sod and warrant a healthy, weed free lawn prior to project acceptance.
- Sod all areas within contract limits that are not covered by paving, buildings or planting beds unless otherwise noted. Sodding shall not begin until area has received topsoil and finished grade.
- Stone mulch shall be local, wash, rounded, river gravel size 3/4" to 2". It shall be free of twigs, leaves, disease, pest or other material unsightly or injurious to plants. Average applied thickness shall be 4" depth. Mulch planting areas in a continuous bed.
- Bed edge shall be smooth, consistent, hand trenched 4" deep and "V" shaped unless otherwise noted. All excavated material shall be removed from the bed edge and planting bed.
- All planting bed edges to be smooth flowing arcs or straight lines as shown on plan. Plant locations and layout of beds shall be located by Contractor and approved by owner prior to planting.
- Install all plants in accordance with planting details and specifications.
- Planting Mix shall be blended, manufactured soil consisting of three (3) parts topsoil, one (1) part compost, one (1) part sand. Topsoil shall be per ASTM D5268, ph range of 5.5 to 7, min. 4 percent organic material, free of stones and soil clumps 3/4 inch and larger. Compost shall be yard waste compost from an EPA rated Class IV compost facility or Com-til compost from City of Columbus Department of Public Utilities. Sand shall be per Item ASTM C33. Proprietary manufactured Planting Mix such as Kurtz Bros. Professional Blend or Jones SuperSoil may be used. Submit product data for review by Owner. Place Planting Mix in settled 6 inch lifts.
- Mix Mycorrhizal Fungi into Planting Mix during placement of Planting Mix. Application rate shall be according to manufacturer's written recommendations. Mycorrhizal Fungi shall be a dry, granular inoculant containing vesicular-arbuscular mycorrhizal fungi and ectomycorrhizal fungi.
- Excavate planting beds to a depth of 12 inches, unless otherwise indicated. Roto-til subgrade of excavation to a depth of 4 inches, unless otherwise indicated. Incorporate a 6 inch lift of planting mix into subgrade. Place remaining Planting Mix in settled 6 inch lifts.
- Planting beds, including mulch, shall be no higher than 6 inches above adjacent grade and shall not impede surface drainage.
- Sod and wildflower areas shall be backfilled with Planting Mix to a minimum settled thickness of 3 inches. Roto-Til subgrade below sod and wildflower seed to a depth of 3 inches, unless otherwise indicated, prior to placement of Planting Mix.
- Composition and application rate of lawn fertilizer shall be sufficient to amend soil according to recommendations of a qualified soil testing agency. Submit soil test results and amendment recommendations to Owner. Lawn fertilizer shall be in a dry granular form.
- Contractor to determine plant list quantities from the plan. Graphic representation on plan supersedes in case of discrepancy with quantities on schedule.
- Any item or areas damaged during construction shall be repaired or replaced to its original condition at the contractor expense.
- Contractor shall thoroughly water all plants at time of installation and as needed until project acceptance by Owner. Contractor shall guarantee all plants installed (except annuals) for one full year from date of acceptance by the Owner. All plants shall be alive and at a vigorous rate of growth at the end of the guarantee period.

MARK	DATE	DESCRIPTION

CITY OF BEXLEY

CITY OF BEXLEY, FRANKLIN COUNTY, OH
STORMWATER IMPROVEMENT PLAN
FOR
BEXLEY POLICE FACILITY



DATE
August 16, 2019

SCALE
None

JOB NO.
20180390

SHEET
5/5

DETAILS AND NOTES

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