



Village of
JUSTICE, Illinois

**PUBLIC WORKS
DETENTION BASIN**
8748 W 82ND PL
Justice, IL 60458

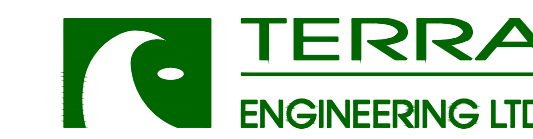
Client



601 SW Water Street
Peoria, IL 61602
(T) 309-404-4700 | (F) 309-266-6553

Project Team

CIVIL ENGINEER



225 W Ohio Street - Suite 400, Chicago, IL 60654
(T) 312-467-0123 | (F) 312-467-0220

Revisions

Date	Issue
12.31.2025	90% CD
03.06.2026	100% CD
04.14.2026	100% PLAN ISSUANCE

Stamp

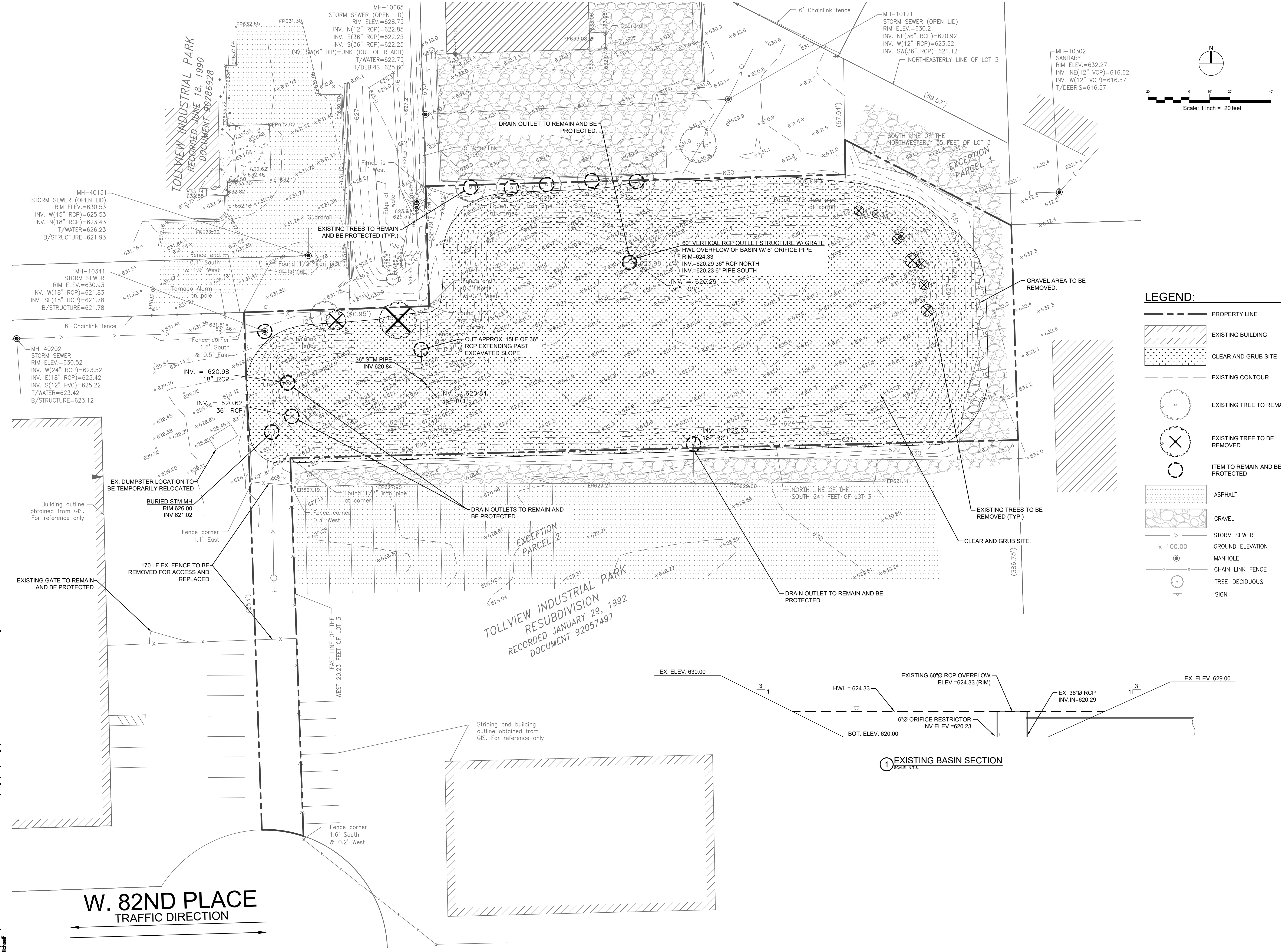
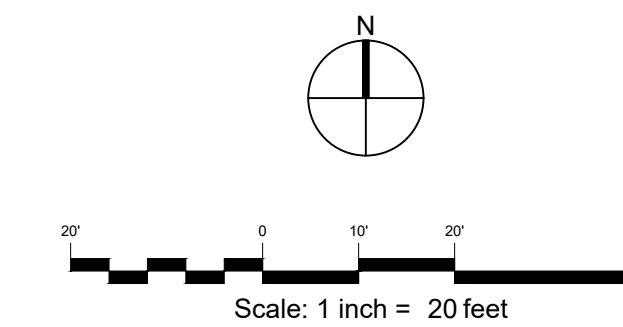
Title

**EXISTING CONDITIONS
& DEMOLITION PLAN**

Sheet No.

C1.0

TERRA Project No. 25-246-001

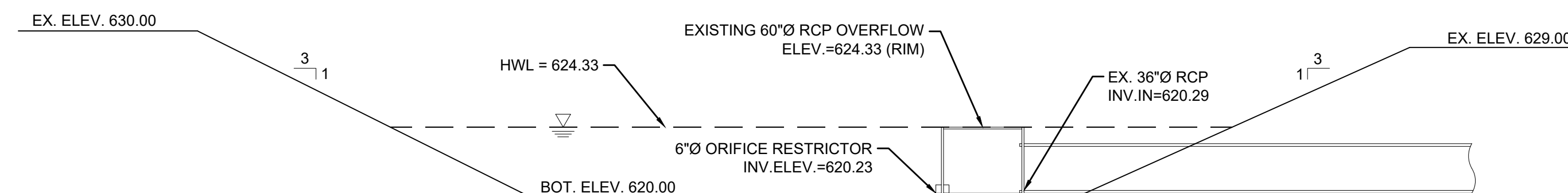


LEGEND:

- PROPERTY LINE
- [Hatched] EXISTING BUILDING
- [Dotted] CLEAR AND GRUB SITE
- - - EXISTING CONTOUR
- [Circle with dot] EXISTING TREE TO REMAIN
- [Circle with X] EXISTING TREE TO BE REMOVED
- [Circle with dot and line] ITEM TO REMAIN AND BE PROTECTED
- [Hatched] ASPHALT
- [Hatched] GRAVEL
- [Line with arrow] STORM SEWER
- [Circle with dot] GROUND ELEVATION
- [Circle with dot] MANHOLE
- [Line with arrow] CHAIN LINK FENCE
- [Circle with dot] TREE-DECIDUOUS
- [Circle with dot] SIGN

1 EXISTING BASIN SECTION

SCALE: N.T.S.



W. 82ND PLACE
TRAFFIC DIRECTION

Apr 14, 2026 - 10:17am
W:\2025\25-246-001 COOP Justice Public Works Detention Basin\Design\Site Drawings\C1.0 Ex Conditions and Demo Plan 20260305.dwg
Michael



Village of JUSTICE, Illinois

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DETENTION BASIN
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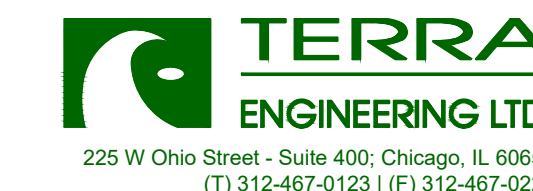
Client



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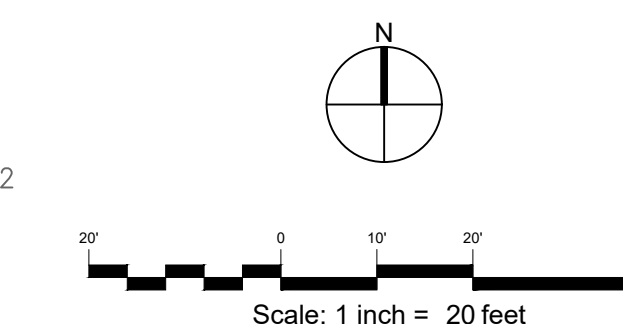
Title

GRADING AND UTILITY
PLAN

Sheet No.

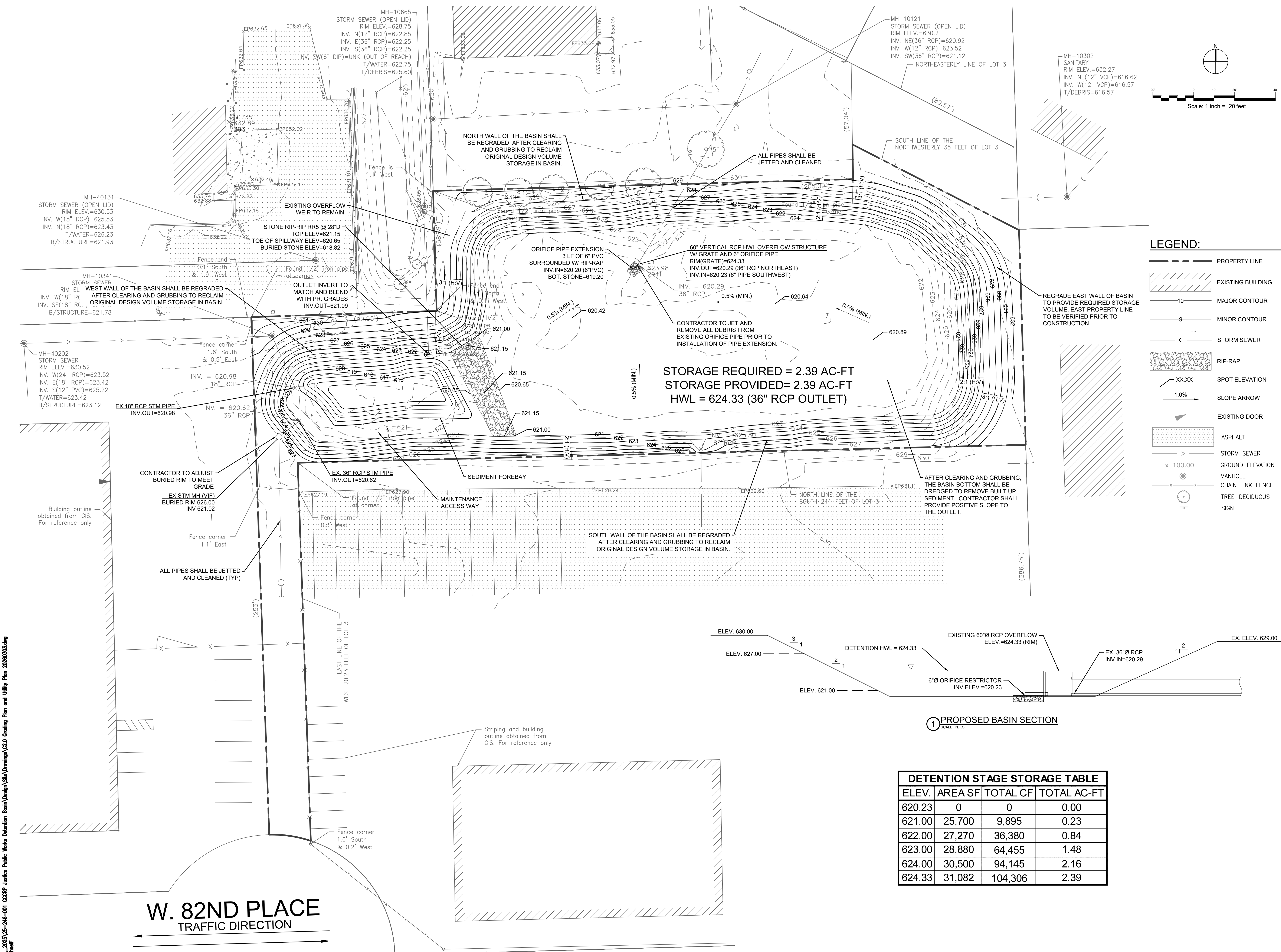
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TERRA Project No. 25-246-001

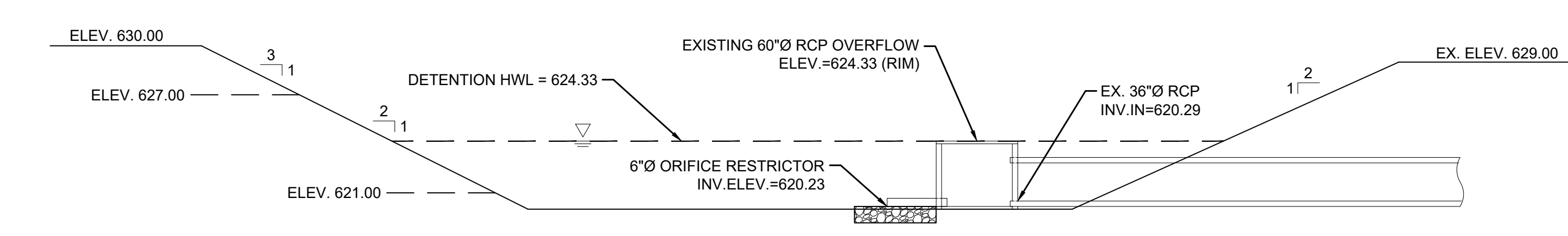


LEGEND:

- PROPERTY LINE
- EXISTING BUILDING
- MAJOR CONTOUR
- MINOR CONTOUR
- STORM SEWER
- RIP-RAP
- SPOT ELEVATION
- SLOPE ARROW
- EXISTING DOOR
- ASPHALT
- STORM SEWER
- GROUND ELEVATION
- MANHOLE
- CHAIN LINK FENCE
- TREE-DECIDUOUS
- SIGN



STORAGE REQUIRED = 2.39 AC-FT
STORAGE PROVIDED = 2.39 AC-FT
HWL = 624.33 (36" RCP OUTLET)



1 PROPOSED BASIN SECTION
SCALE: N.T.S.

ELEV.	AREA SF	TOTAL CF	TOTAL AC-FT
620.23	0	0	0.00
621.00	25,700	9,895	0.23
622.00	27,270	36,380	0.84
623.00	28,880	64,455	1.48
624.00	30,500	94,145	2.16
624.33	31,082	104,306	2.39

W. 82ND PLACE
TRAFFIC DIRECTION

Apr 14, 2026 - 10:18am
W:\2025\25-246-001 COOP Justice Public Works Detention Basin\Design\Site Drawings\C2.0 Grading Plan and Utility Plan_20260303.dwg
Michael



Village of JUSTICE, Illinois

PUBLIC WORKS
DETENTION BASIN
8748 W 82ND PL
Justice, IL 60458

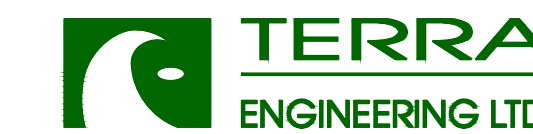
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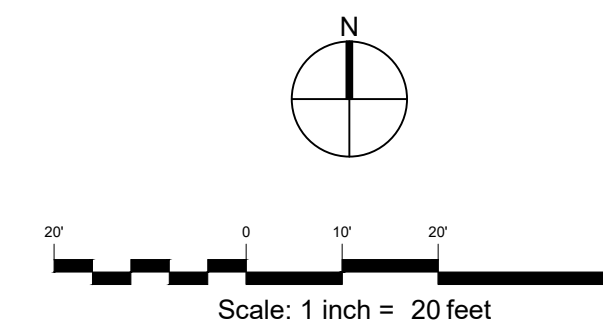
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LEGEND:

- PROPERTY LINE
- EXISTING BUILDING
- SILT FENCE
- CONSTRUCTION FENCE
- STABILIZED CONSTRUCTION ENTRANCE
- TURF REINFORCEMENT MAT (PERMANENT)
- INLET PROTECTION LOG
- SEED AND BLANKET
- STORM SEWER
- GROUND ELEVATION
- MANHOLE
- CHAIN LINK FENCE
- TREE-DECIDUOUS
- SIGN

GENERAL NOTES:

- STOCKPILE LOCATION TO BE DETERMINED BY CONTRACTOR AND COORDINATED WITH THE VILLAGE. ALL STOCKPILES SHALL HAVE SILT FENCE (SEE DETAIL).
- CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE FLOW THRU THE SITE AT ALL TIMES. IN THE EVENT OF A STORM, RUNOFF SHALL BE ROUTED THROUGH OR AROUND THE BASIN DURING CONSTRUCTION. RUNOFF SHALL NOT BE BLOCKED AND ALLOWED TO BACK UP ON THE SITE.
- THE CONSTRUCTION STAGING AREA HAS BEEN LOCATED ON THE PLAN FOR REFERENCE. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION IN THE FIELD WITH THE VILLAGE PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL RETURN THE STAGING AREA TO PRE-CONSTRUCTION CONDITIONS PRIOR TO FINAL PROJECT CLOSEOUT.

EROSION CONTROL NOTES:

- THE SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS FOR SOIL AND SEDIMENTATION CONTROL OF LOCAL GOVERNMENT AGENCIES, PROCEDURES AND STANDARDS FOR URBAN SOIL AND SEDIMENTATION CONTROL IN ILLINOIS, IEPA STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND MWRD TECHNICAL MANUAL, LATEST EDITION.
- A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO, ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
- FILTER BASKETS SHALL BE INSTALLED AND MAINTAINED AROUND THE INLET AND OUTLET STRUCTURES AS SPECIFIED.
- SHOULD THE VOLUME, VELOCITY, SEDIMENT LOAD, OR PEAK FLOW RATES OF STORMWATER RUNOFF TEMPORARILY INCREASE DURING CONSTRUCTION, THEN ADDITIONAL MEASURES TO PROTECT ADJACENT PROPERTIES SHALL BE UNDERTAKEN.
- GRAVELED ROADS, ACCESS DRIVES, PARKING AREAS OF SUFFICIENT WIDTH AND LENGTH, AND VEHICLES WASHDOWN FACILITIES, SHALL BE PROVIDED TO PREVENT THE DEPOSIT OF SOIL FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. ANY SOIL REACHING A PUBLIC OR PRIVATE ROADWAY SHALL BE REMOVED CONTINUOUSLY.
- DUST SCREENING SHALL BE PROVIDED ON ALL CONSTRUCTION FENCING.

Revisions

Date	Issue
12.31.2025	90% CD
03.06.2026	100% CD
04.14.2026	100% PLAN ISSUANCE

Stamp

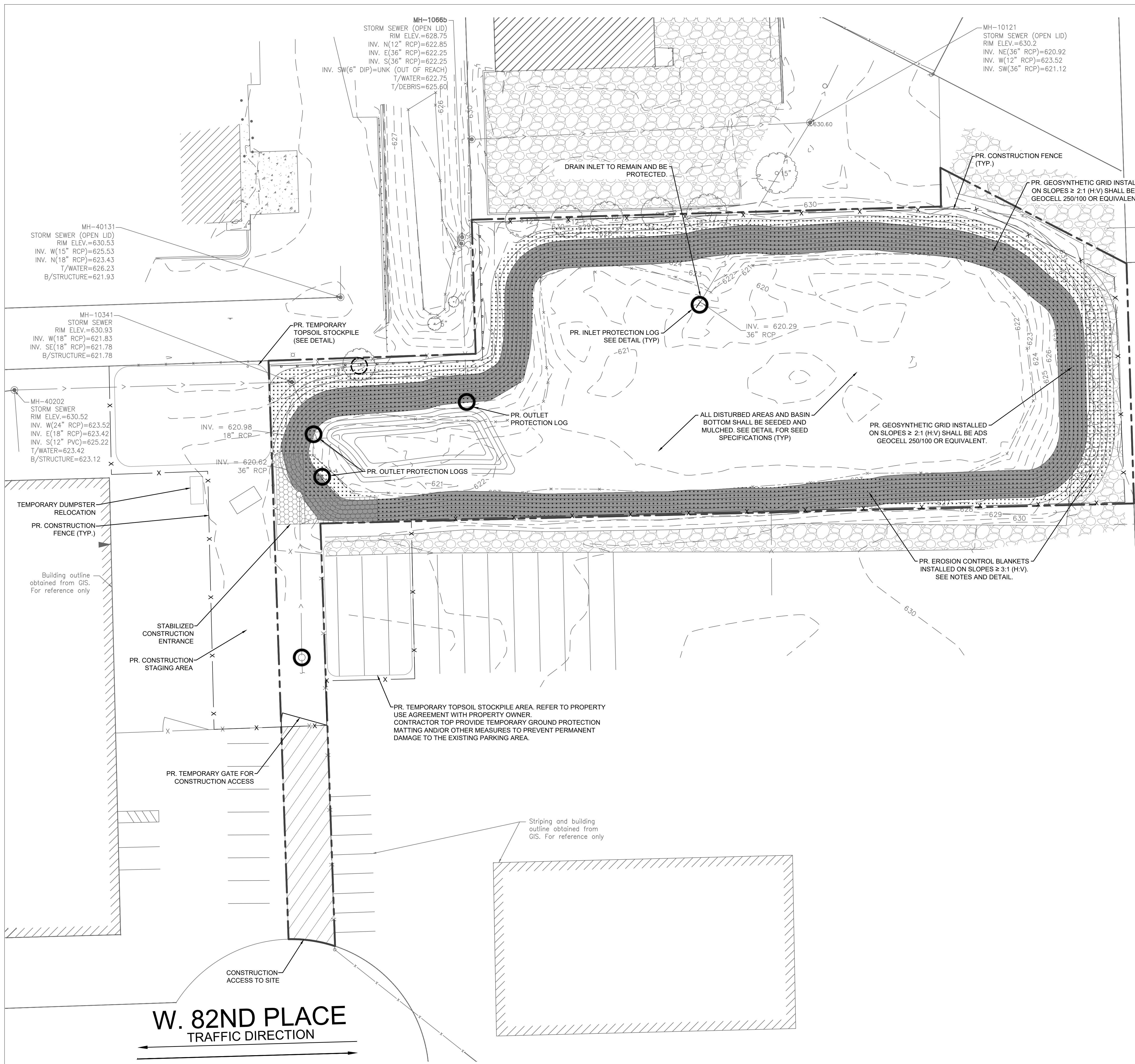
Title

SEDIMENTATION AND
EROSION CONTROL
PLAN

Sheet No.

C3.0

TERRA Project No. 25-246-001



Apr 14, 2026 - 10:15am
W. 82ND PLACE TRAFFIC DIRECTION
W. 2025 05-246-001 C3.0 Justice Public Works Detention Basin Drawings (C3.0 Sedimentation and Erosion Control Plan 20260304.dwg
Michael



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DETENTION BASIN
8748 W 82ND PL
Justice, IL 60458

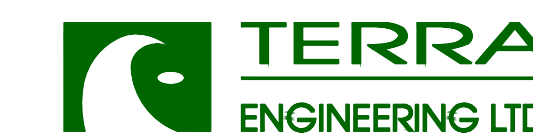
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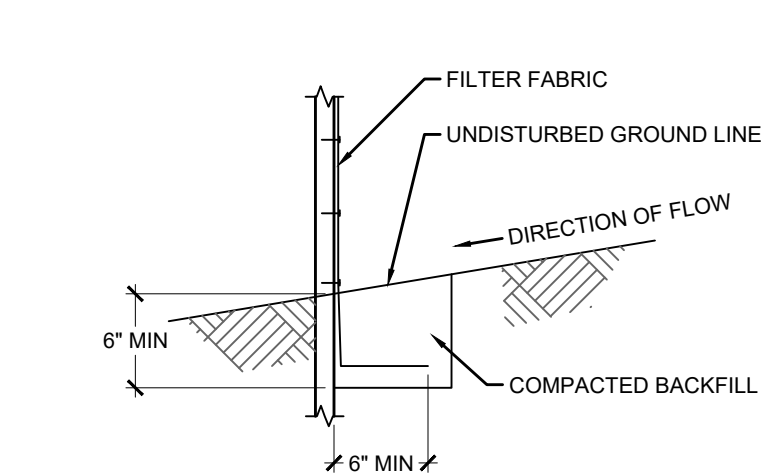
601 SW Water Street
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Project Team

CIVIL ENGINEER

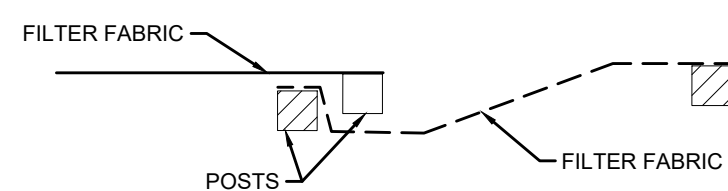


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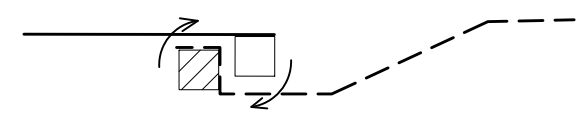


FABRIC ANCHOR DETAIL
SCALE: 1" = 1'-0"

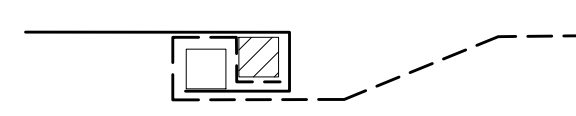
STEP 1: PLACE THE END POST OF THE SECOND FENCE INSIDE THE END POST OF THE FIRST FENCE.



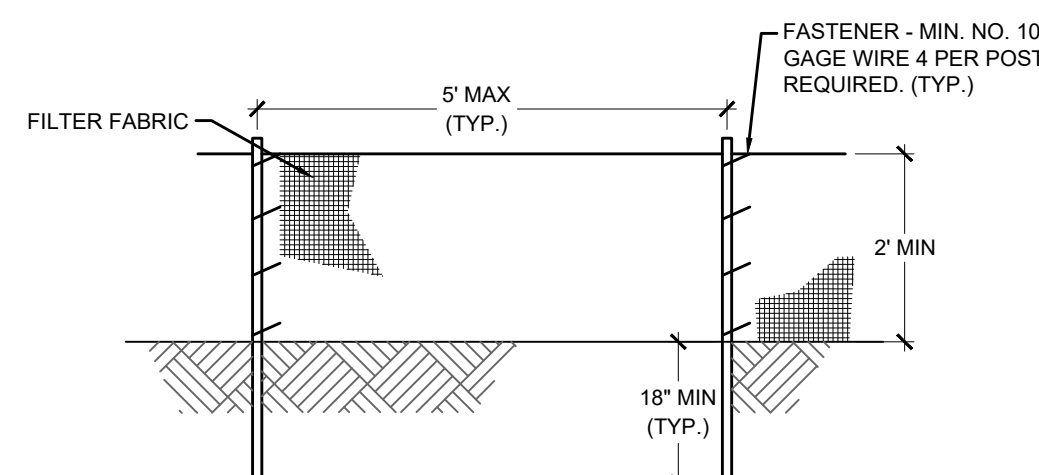
STEP 2: ROTATE BOTH POSTS AT LEAST 180 DEGREES IN A CLOCKWISE DIRECTION TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL.



STEP 3: DRIVE BOTH POSTS A MINIMUM OF 18 INCHES INTO THE GROUND AND BURY THE FLAP.



INSTALLATION

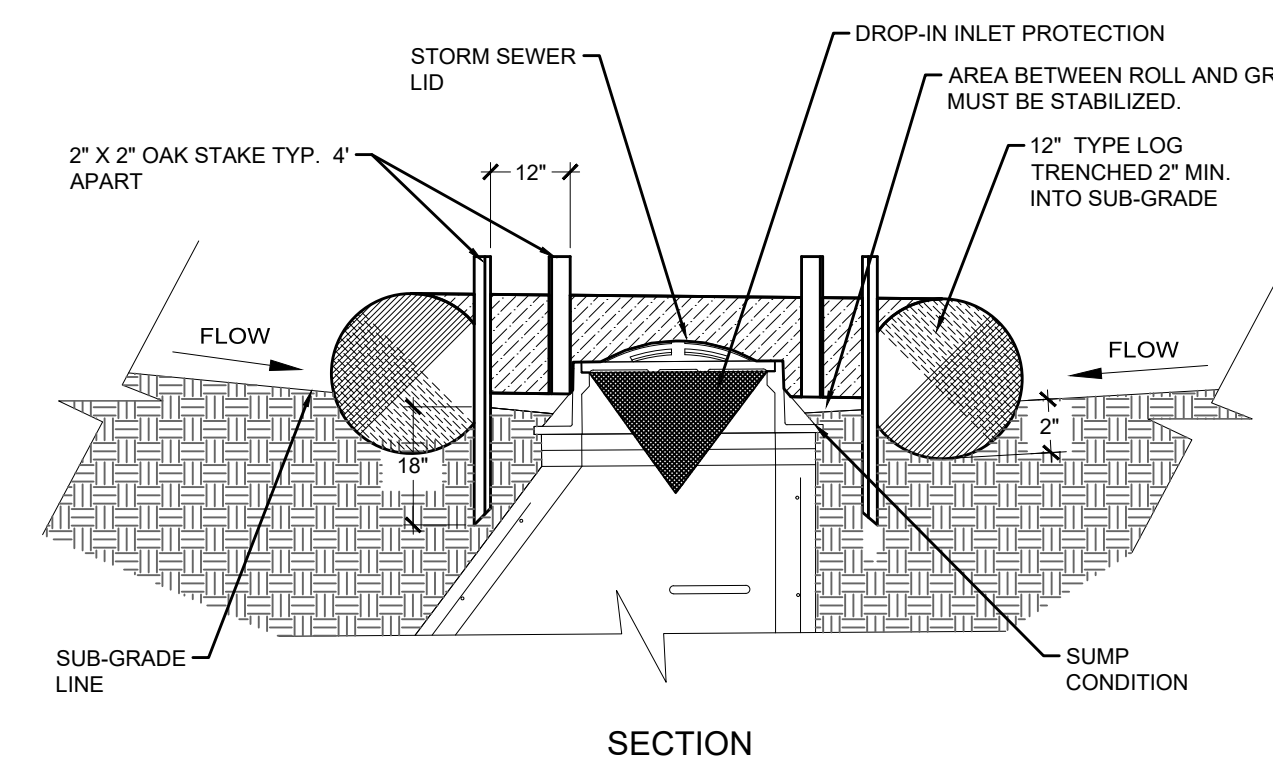


ELEVATION

NOTES:

1. TEMPORARY SEDIMENT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED. THEY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.
2. FILTER FABRIC SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION 592 GEOTEXTILE TABLE 1 OR 2, CLASS WITH EQUIVALENT OPENING SIZE OF AT LEAST 30 FOR NONWOVEN AND 50 FOR WOVEN.
3. FENCE POSTS SHALL BE EITHER STANDARD STEEL POST OR WOOD POST WITH A MINIMUM CROSS-SECTIONAL AREA OF 3.0 SQ. IN.

1 SILT FENCE
SCALE: 1" = 2'-0"

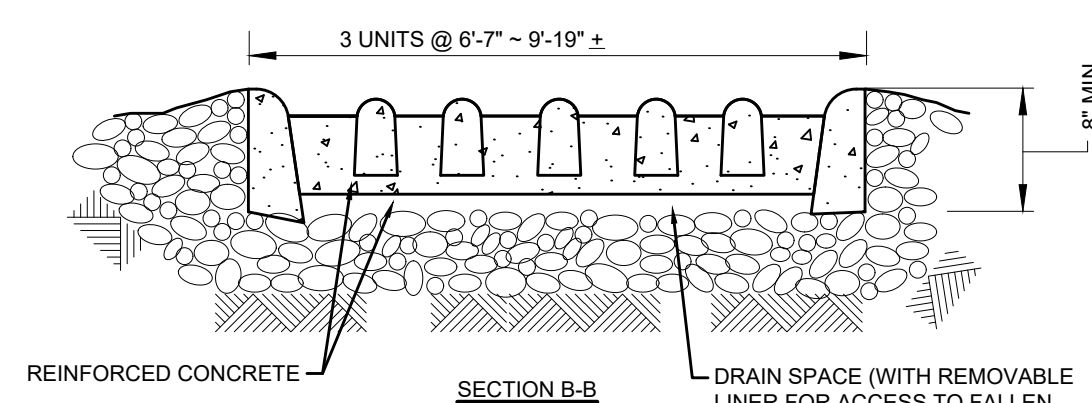
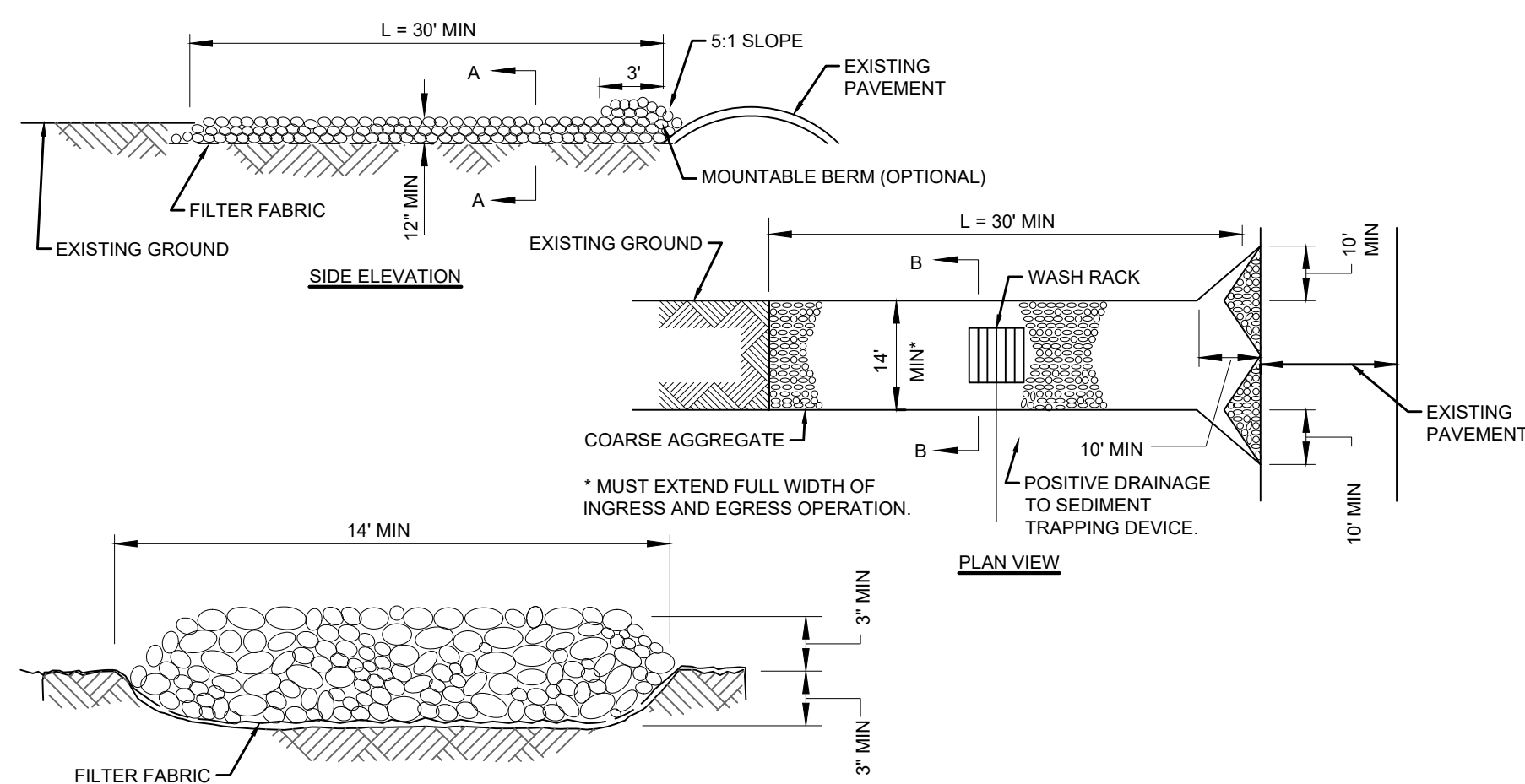


SECTION

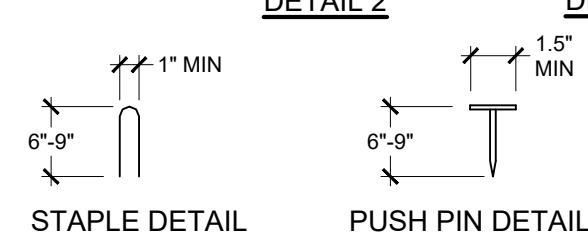
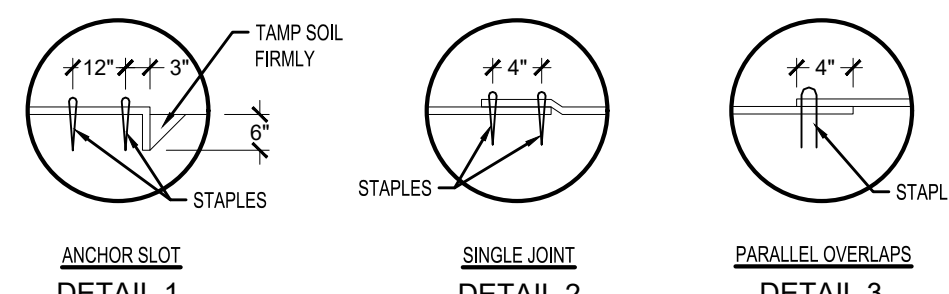
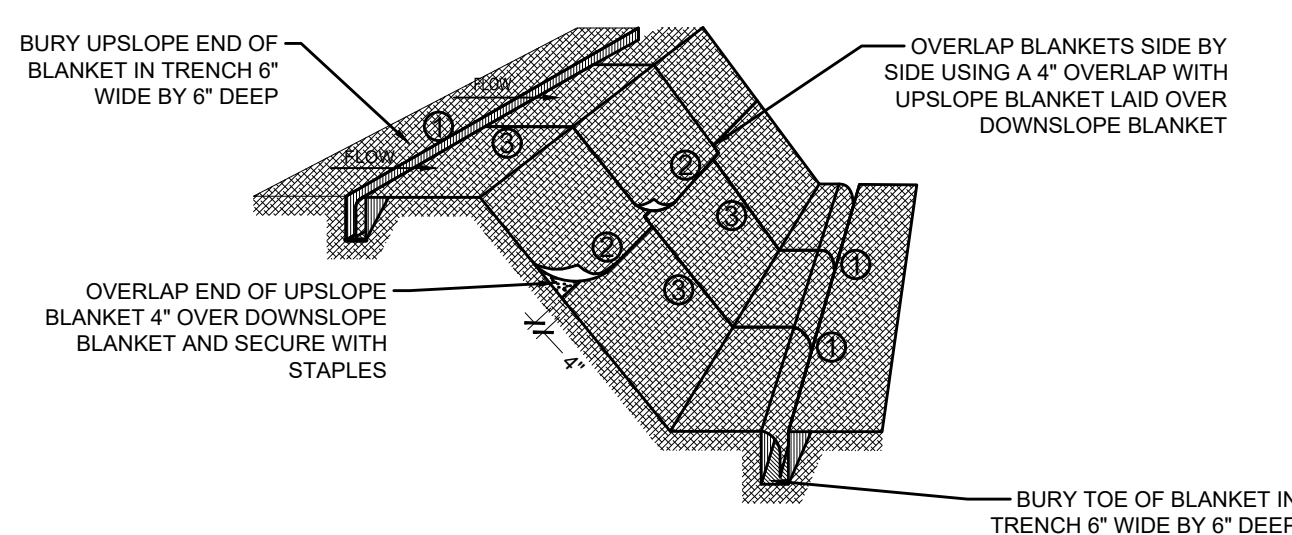
NOTES:

1. 2" X 2" NOMINAL HARDWOOD STAKES, 4 FOOT MINIMUM LENGTH, DRIVEN INTO GROUND APPROXIMATELY 18 INCHES, STAKES DRIVEN A MINIMUM WIDTH OF 12 INCHES AWAY FROM THE DROP INLET.
2. AREA INSIDE THE LOG, FROM EDGE OF FABRIC TO STRUCTURE, MUST BE STABILIZED WITH EROSION CONTROL BLANKET, TURF REINFORCEMENT MAT, GEOTEXTILE 592 TABLE 2 CLASS 2 OR CA-7 STONE.
3. THE MAXIMUM DISTANCE BETWEEN THE STAKES SHOULD BE 4 FEET.
4. A MAINTENANCE SCHEDULE MUST MAINTAIN A SEDIMENT ACCUMULATION OF LESS THAN 50% OF THE HEIGHT OF THE LOG.

2 INLET PROTECTION LOG TYPE
SCALE: N.T.S.



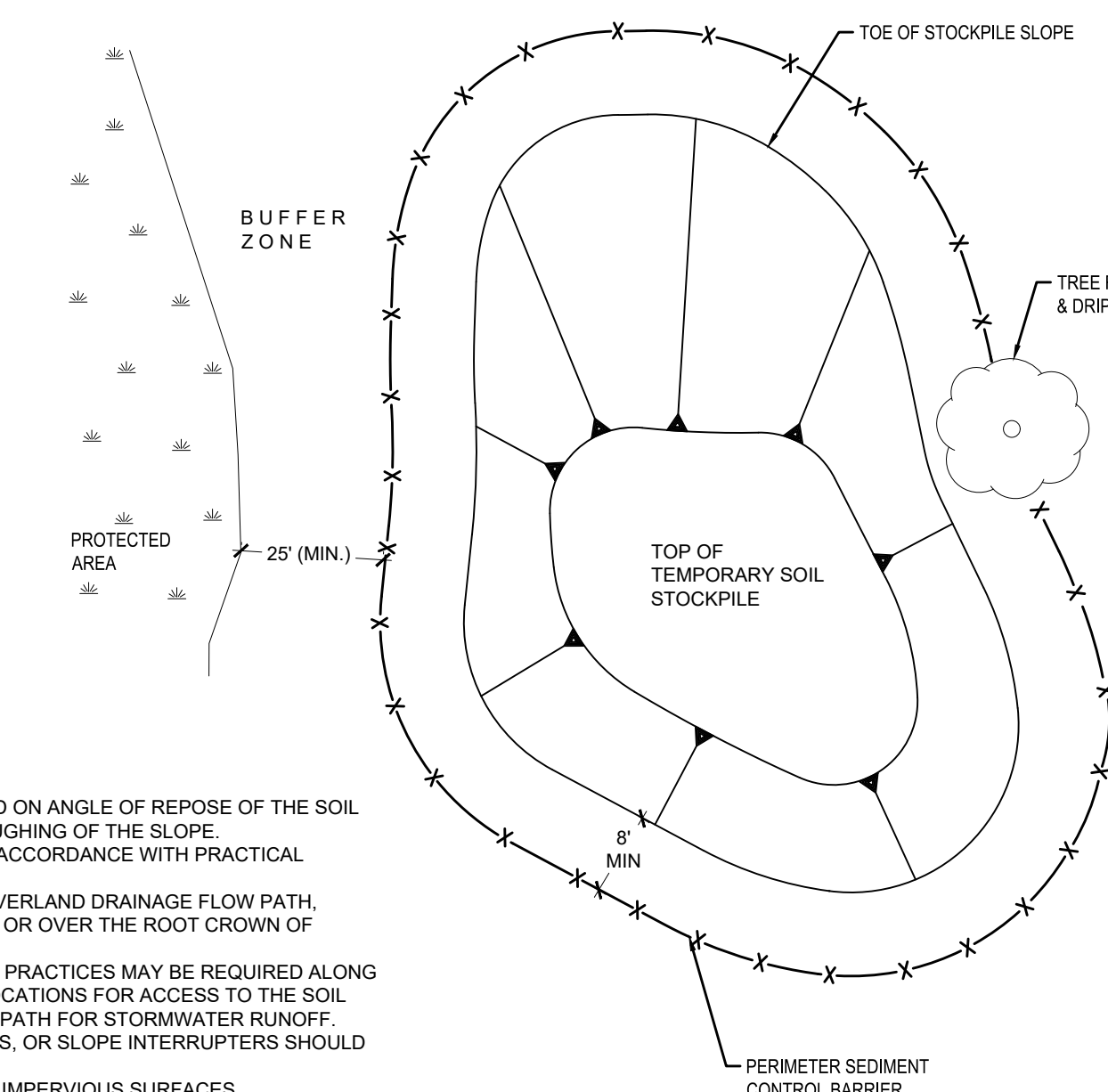
3 CONSTRUCTION ENTRANCE
SCALE: N.T.S.



NOTES:

1. STAPLES SHALL BE PLACED IN A DIAMOND PATTERN AT 2 PER S.Y. FOR STICHED BLANKETS. NON-STICHED SHALL USE 4 STAPLES PER S.Y. OF MATERIAL. THIS EQUATES TO 200 STAPLES WITH STICHED BLANKET AND 400 STAPLES WITH NON-STICHED BLANKET PER 100 S.Y. OF MATERIAL.
2. STAPLE OR PUSH PIN LENGTHS SHALL BE SELECTED BASED ON SOIL TYPE AND CONDITIONS. (MINIMUM STAPLE LENGTH IS 6")
3. EROSION CONTROL MATERIAL SHALL BE PLACED IN CONTACT WITH THE SOIL OVER A PREPARED SEEDBED.
4. ALL ANCHOR SLOTS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.

4 EROSION CONTROL BLANKET
SCALE: N.T.S.



NOTES:

1. STOCKPILE SLOPES SHOULD BE BASED ON ANGLE OF REPOSE OF THE SOIL MATERIAL TO AVOID POTENTIAL SLOUGHING OF THE SLOPE.
2. SOIL STOCKPILE TO BE STABILIZED IN ACCORDANCE WITH PRACTICAL STANDARDS.
3. DO NOT LOCATE STOCKPILE WITHIN OVERLAND DRAINAGE FLOW PATH, DESIGNATED FLOODWAYS, DRIP LINE OR OVER THE ROOT CROWN OF ADJACENT TREES.
4. PROVISIONS FOR SEDIMENT CONTROL PRACTICES MAY BE REQUIRED ALONG HAUL ROADS AND ENTRANCE/EXIT LOCATIONS FOR ACCESS TO THE SOIL STOCKPILE THAT CAN GREATLY FLOW PATH FOR STORMWATER RUNOFF.
5. INSTALLATION OF BENCHES, TERRACES, OR SLOPE INTERRUPTERS SHOULD BE CONSIDERED.
6. AVOID BUILDING SOIL STOCKPILES ON IMPERVIOUS SURFACES.
7. LINEAR SEDIMENT TRAP SURROUNDING THE STOCKPILE BASE MAY BE USED TO CONTROL SEDIMENT.

5 TEMPORARY SOIL STOCKPILE DETAIL
SCALE: N.T.S.

Revisions

Date	Issue
12.31.2025	90% CD
03.06.2026	100% CD
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Stamp

Title

SITE DETAILS

Sheet No.

C4.0

TERRA Project No. 25-246-001



Ernst Conservation Seeds
 8884 Mercer Pike
 Meadville, PA 16335
 (800) 873-3321 Fax (814) 336-5191
www.ernstseed.com

Date: June 26, 2025

Retention Basin Floor Mix - Low Maintenance - ERNMX-126

Botanical Name	Common Name
20.00 % <i>Panicum clandestinum</i> , Tioga	Deertongue, Tioga
20.00 % <i>Puccinellia distans</i> , Fults	Alkaligrass, Fults
18.00 % <i>Elymus virginicus</i> , Madison-NY Ecotype	Virginia Wildrye, Madison-NY Ecotype
15.00 % <i>Agrostis stolonifera</i> , 'PC 2.0'	Creeping Bentgrass, 'PC 2.0'
15.00 % <i>Poa palustris</i>	Fowl Bluegrass
10.00 % <i>Carex vulpinoidea</i> , PA Ecotype	Fox Sedge, PA Ecotype
1.00 % <i>Carex lurida</i> , PA Ecotype	Lurid Sedge, PA Ecotype
1.00 % <i>Juncus effusus</i>	Soft Rush

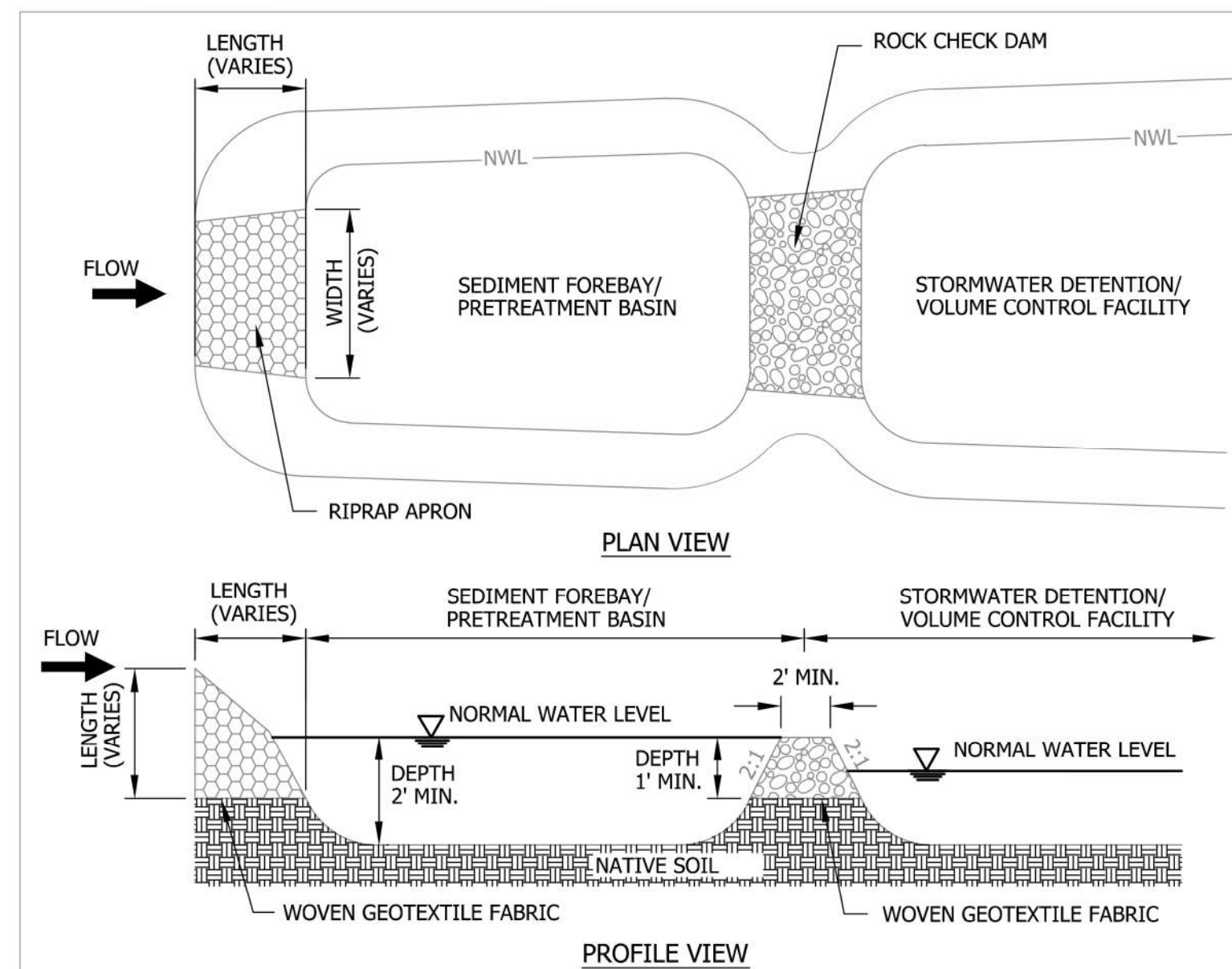
100.00 %

Seeding Rate: 40 lbs per acre, or 1 lb/1,000 sq ft with a cover crop. For a cover crop use one of the following: grain rye (1 Sep to 30 Apr; 30 lbs/acre), Japanese millet (1 May to 31 Aug; 10 lbs/acre), or barnyard grass (1 May to 31 Aug; 10 lbs/acre).

Grasses & Grass-like Species - Herbaceous Perennial; Stormwater Management

The hardy inexpensive grass and grass-like species are ideal for retention basins that may have high salt inflows and where mowing may be required. Mix formulations are subject to change without notice depending on the availability of existing and new products. While the formula may change, the guiding philosophy and function of the mix will not.

6 DETENTION BASIN SEED MIX
 BASIN BOTTOM - ELEVATION 619-621



- NOTES:
- 1) RIPRAP APRON DIMENSIONS AND GRADATIONS SHALL BE DETERMINED ACCORDING TO IUM PRACTICE STANDARD 910, TABLES 1 AND 2.
 - 2) WOVEN GEOTEXTILE FABRIC SHALL MEET OR EXCEED REQUIREMENTS IN ILLINOIS URBAN MANUAL MATERIAL SPECIFICATION 592, TABLE 1, CLASS I, II, OR III.
 - 3) SEDIMENT FOREBAY/PRETREATMENT BASIN VOLUME SHALL BE A MINIMUM OF 10% OF THE STORMWATER DETENTION/VOLUME CONTROL STORAGE.
 - 4) ROCK CHECK DAM DESIGNED IN ACCORDANCE WITH IUM PRACTICE STANDARD FOR ROCK CHECK DAM (905).
 - 5) CONCRETE OVERFLOW SPILLWAY OR GABION BASKETS MAY BE USED IN PLACE OF ROCK CHECK DAM.
 - 6) DEPTH IN SEDIMENT FOREBAY/PRETREATMENT BASIN SHALL BE A MINIMUM OF 2 FEET AND A MAXIMUM OF 6 FEET.
 - 7) SIDE SLOPES OF OF FACILITY SHALL NOT EXCEED 3:1.

NOT TO SCALE

	TECHNICAL GUIDANCE MANUAL	7/1/15
	SEDIMENT FOREBAY/ PRETREATMENT BASIN	STD. DWG. NO:12
	TYPICAL DETAIL	PAGE NO. 13

8 SEDIMENT FOREBAY

Low Profile Prairie Seed Mix (Dry-Mesic Soils)

MIX STATISTICS		DESIGNED FOR SUNNY AREAS THAT ARE MESIC TO DRY FOR MOST OF THE GROWING SEASON. COMPOSED OF A DIVERSE COLLECTION OF SHORTER-PROFILE PRAIRIE GRASS AND WIDFLOWER SPECIES, THIS MIX IS IDEAL FOR AREAS WHERE TALLER VEGETATION IS NOT APPROPRIATE. AVERAGING 2.6' IN HEIGHT BY SEED COUNT, WITH OVER 56% WIDFLOWERS, THIS MIX PROVIDES AN ARRAY OF BLOOMS FROM APRIL THROUGH OCTOBER. WHEN INSTALLED AND MANAGED CORRECTLY, THIS MIX TYPICALLY BEGINS FLOWERING IN THE SECOND GROWING SEASON, STARTING WITH THE YELLOW BLOOMS OF ANNUAL PARTRIDGE PEA AND BIENNIAL BLACK-EYED SUSAN. AN ADDITIONAL COLORFUL MATRIX OF PERENNIAL SPECIES APPEARS IN THE SUCCEEDING 3 TO 5 YEARS.	
Base Mix Without Supplemental Plugs	2.6		
Average Mix Height (ft)	3.0		
Median Mix Height (ft)	3.0		
Species Heights (# of Occurrences in Mix)	1.5' (1), 2' (15), 3' (11), 4' (10), 5' (2)		
Number of Native Species in Mix	39		
Native FQI	35.1		
Native Mean C Value	5.6		
Native Mean W Value	2.5		
National Wetland Category	FACU		
Lbs/Acre of Native Seed	24.4		
Seeds per Square Foot	127.6		
Percent of Mix (by Seed Count) Requiring Stratification	56.1%		

CODE	SCIENTIFIC NAME	COMMON NAME	C-VALUE	W-VALUE	WETNESS	HEIGHT	BLOOM COLOR	BLOOM TIME												SEEDS/OZ	OZ/ACRE	LB/ACRE	% OF MIX		GERMINATION	TOP SOW
								A	M	J	J	A	S	O	by Weight	by Seed Count										
BOUCUR	<i>Bouteloua curtipendula</i>	Side-oats Grama	8	5	UPL	1.5-2.5'	2	N/A											6,000	128.00	8.00	32.75%	13.82%	N/A	0	
COBCK	<i>Carex bicknellii</i>	Copper-shouldered Oval Sedge	10	3	FACU	1.5-2.5'	2	N/A										17,000	6.00	0.38	1.54%	1.84%	CM-60	0		
COBRY	<i>Carex brevis</i>	Prairie Oval Sedge	4	0	FAC	1-3'	2	N/A										29,000	4.00	0.25	1.02%	2.09%	CM-60	0		
COXOLE	<i>Carex molesta</i>	Field Oval Sedge	2	0	FAC	1-2.5'	2	N/A										25,000	2.00	0.13	0.51%	0.90%	CM-60	NO		
ELYCAN	<i>Elymus canadensis</i>	Canada Wild Rye	4	3	FACU	3-5'	5	N/A										5,200	32.00	2.00	8.19%	2.99%	N/A	0		
JUNDUD	<i>Juncus dudleyi</i>	Dudley's Rush	4	-3	FACW	1-2.5'	2	N/A										3,200,000	0.175	0.01	0.03%	7.20%	CM-60	0		
PANWV	<i>Panicum virgatum</i>	Switchgrass	5	0	FAC	3-6'	4	N/A										14,000	8.00	0.50	2.05%	2.02%	N/A	0		
SCHSCO	<i>Schizachyrium scoparium</i>	Little Bluestem	5	3	FACU	2-3'	3	N/A										15,000	48.00	3.00	12.28%	12.96%	N/A	0		
Grass/Sedge Subtotals																14,258	48.00	3.00	58.36%	43.81%						

CODE	SCIENTIFIC NAME	COMMON NAME	C-VALUE	W-VALUE	WETNESS	HEIGHT	BLOOM COLOR	BLOOM TIME												SEEDS/OZ	OZ/ACRE	LB/ACRE	% OF MIX		GERMINATION	TOP SOW
								A	M	J	J	A	S	O	by Weight	by Seed Count										
ALLCER	<i>Allium cernuum</i>	Nodding Onion	7	3	FACU	1-2'	1.5	Purple										7,600	3.00	0.19	0.77%	0.41%	CM-60	0		
AMOCAN	<i>Amonia canescens</i>	Lead Plant	9	5	UPL	1-3.5'	3	Purple										16,000	2.00	0.13	0.51%	0.58%	CM-10, H, I, J	0		
ASCLUB	<i>Asclepias tuberosa</i>	Butterfly Weed	7	5	UPL	1.2-5'	2	Orange										4,300	16.00	1.00	4.09%	1.24%	CM-30	0		
BAPALB	<i>Baptisia alba</i>	White Wild Indigo	8	3	FACU	3-6'	4	White										1,700	2.50	0.16	0.64%	0.08%	CM-10, H, I	0		
CHAFAS	<i>Chamaecrista fasciculata</i>	Partridge Pea	5	3	FACU	6"-2'	2	Yellow										2,700	16.00	1.00	4.09%	0.78%	CM-10, H, I	0		
COBRLAN	<i>Careopsis lanceolata</i>	Sand Conopsis	5	3	FACU	1.5-3'	2	Yellow										20,000	6.00	0.38	1.54%	2.16%	CM-30	0		
COBPAL	<i>Careopsis patula</i>	Prairie Careopsis	6	5	UPL	1.2-5'	2	Yellow										10,000	4.00	0.25	1.02%	0.73%	CM-60, M	0		
DALPUR	<i>Dalea purpurea</i>	Purple Prairie Clover	9	5	UPL	1-3'	2	Purple										18,000	8.00	0.50	2.05%	2.59%	J, I	0		
ECHPAL	<i>Echinacea pallida</i>	Pale Purple Coneflower	8	5	UPL	2-3'	3	Purple										5,200	16.00	1.00	4.09%	1.50%	CM-90 or M	0		
ECHPUR	<i>Echinacea purpurea</i>	Purple Coneflower	3	5	UPL	2-5'	4	Purple										6,600	6.00	0.38	1.54%	0.71%	N/A	0		
ERYFUC	<i>Eryngium yuccifolium</i>	Rattlesnake Master	9	0	FAC	2-5'	4	White										7,500	4.00	0.25	1.02%	0.54%	CM-60	0		
EUPCOR	<i>Euphorbia corollata</i>	Flowering Spurge	2	5	UPL	1-3'	3	White										8,000	4.00	0.25	1.02%	0.58%	CM-30	0		
HEJHEL	<i>Helopsis helianthoides</i>	Early Sunflower	5	3	FACU	3-5'	5	Yellow										6,300	6.00	0.38	1.54%	0.68%	CM-30	0		
LESCAP	<i>Lespedeza capitata</i>	Round-headed Bush Clover	4	3	FACU	2-5'	4	Green										8,000	4.00	0.25	1.02%	0.58%	CM-10, H, I, J	0		
LIABSP	<i>Liatris spicata</i>	Blizzard Star	6	5	UPL	2-5'	3	Purple										16,000	3.00	0.19	0.77%	0.86%	CM-60	0		
LIAPYC	<i>Liatris pycnostachya</i>	Prairie Blazing Star	8	0	FAC	2-4'	4	Purple										11,000	4.00	0.25	1.02%	0.79%	CM-60	0		
MONFIS	<i>Monarda fistulosa</i>	Wild Bergamot	4	3	FACU	2.5-4'	4	Purple										70,000	2.00	0.13	0.51%	2.52%	N/A	0		
PARINT	<i>Parthenium integrifolium</i>	Wild Quinine	8	5	UPL	2.3-5'	3	White										7,000	8.00	0.50	2.05%	1.01%	CM-60	0		
PENDIG	<i>Pentstemon digitalis</i>	Fringed Beardtongue	4	0	FAC	1-3'	3	White										4	130,000	2.00	0.13	0.51%	4.68%	CM-30, G	0	
PYCTEN	<i>Pycnanthemum tenuifolium</i>	Slender Mountain Mint	7	0	FAC	1-3'	2	White										378,000	0.25	0.02	0.06%	1.70%	N/A	0		
RATPIN	<i>Ratibida pinnata</i>	Yellow Coneflower	4	5	UPL	2-4'	4	Yellow										30,000	4.00	0.25	1.02%	2.16%	CM-30	0		
RUDFUL	<i>Rudbeckia fulgida</i>	Orange Coneflower	8	-5	ORL	2-4'	3	Orange										31,000	4.00	0.25	1.02%	2.23%	CM-60	0		
RUDHIR	<i>Rudbeckia hirta</i>	Black-eyed Susan	1	3	FACU	2-3'	2	Yellow										92,000	8.00	0.50	2.05%	13.25%	CM-30	0		
SOLJUN	<i>Solidago juncea</i>	Early Goldenrod	5	5	UPL	1-3'	3	Yellow										290,000	0.50	0.03	0.13%	2.61%	CM-60	0		
SOLRIG	<i>Solidago rigida</i>	Stiff Goldenrod	4	3	FACU	2-5'	4	Yellow										41,000	1.00	0.06	0.26%	0.74%	CM-60	0		
SYMER	<i>Symphytrichium ericoides</i>	Heath Aster	5	3	FACU	1-3'	2	White										200,000	1.00	0.06	0.26%	3.60%	N/A	0		
SYMLAE	<i>Symphytrichium laeve</i>	Smooth Blue Aster	9	3	FACU	1.5-3'	3	Blue										55,000	1.00	0.06	0.26%	0.99%	CM-60	0		
SYMNOW	<i>Symphytrichium nove-angliae</i>	New England Aster	4	3	FACW	3-5'	4	Purple										66,000	0.50	0.03	0.13%	0.59%	CM-60	0		
TRADHI	<i>Tradescantia ohensis</i>	Ohio Spiderwort	2	3	FACU	2-4'	3	Blue										8,000	8.00	0.50	2.05%	1.15%	CM-120 or M, G	0		
VERSTR	<i>Verbena stricta</i>	Hoary Vervain	4	5	UPL	1-3'	2	Blue										28,000	2.00	0.13	0.51%	1.01%	CM-60	0		
ZIZAUR	<i>Zizia aurea</i>	Golden Alexanders	7	0	FAC	1.2-5'	2	Yellow										11,000	16.00	1.00	4.09%	3.17%	CM-60 or M, G	NO		
Wildflower Subtotals																10,172	41.64%	56.19%								
Mix TOTALS																24,480	100.00%	100.00%								

7 NO MOW SLOPES SEED MIX
 BASIN SIDE SLOPES - ELEVATION 621-630

ADS GEOSYNTHETICS 250/100 GEOCELL SPECIFICATION

Scope
 This specification describes ADS Geosynthetics 250/100 geocell.

Geotextile Properties

Property (MARV ¹)	Test Method	Unit	Typical Roll Value
Grab Tensile Strength	ASTM D4632	lbs (N)	360 (1600)
Trapezoid Tear	ASTM D4533	lbs (N)	149 (663)
Grab Elongation	ASTM D4632	%	>50
Puncture Strength	ASTM D4833	lbs (N)	114 (510)
CBR	ASTM D6241	lbs (N)	435 (1939)
UV Resistance @ 500 hours	ASTM D4355	%	70
Apparent Opening Size ²	ASTM D4751	US Sieve	200
Permittivity	ASTM D4491	Sec ⁻¹	0.6

Geocell Properties

Property	Test Method	Unit	Typical Roll Value
Cell Diameter		in (mm)	9.8 (250)
Cell Depth		in (mm)	4 (100)
Panel Size L x W (nominal)		ft (m)	16 x 24 (5 x 7)
Panel Area		ft ² (m ²)	384 (35)
Weight		lbs (kg)	38 (17.2)
Cell Wall Tensile Strength	ASTM D4597	lb (kN/m) Ultimate Strength	607 (26.7)
Cell Wall Tensile Strength	ASTM D4597	lb (kN/m) 2%	116 (5.1)
Cell			