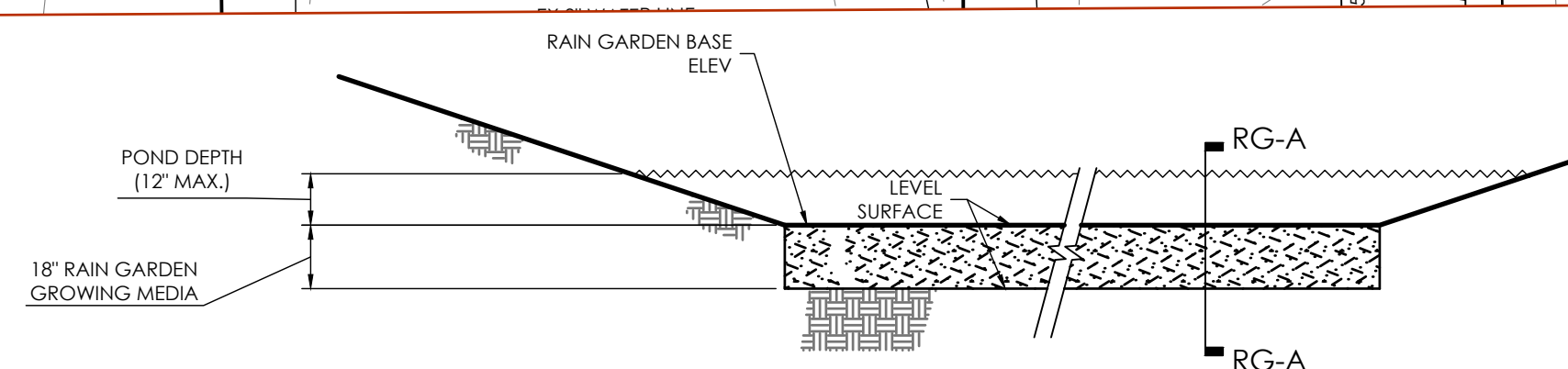
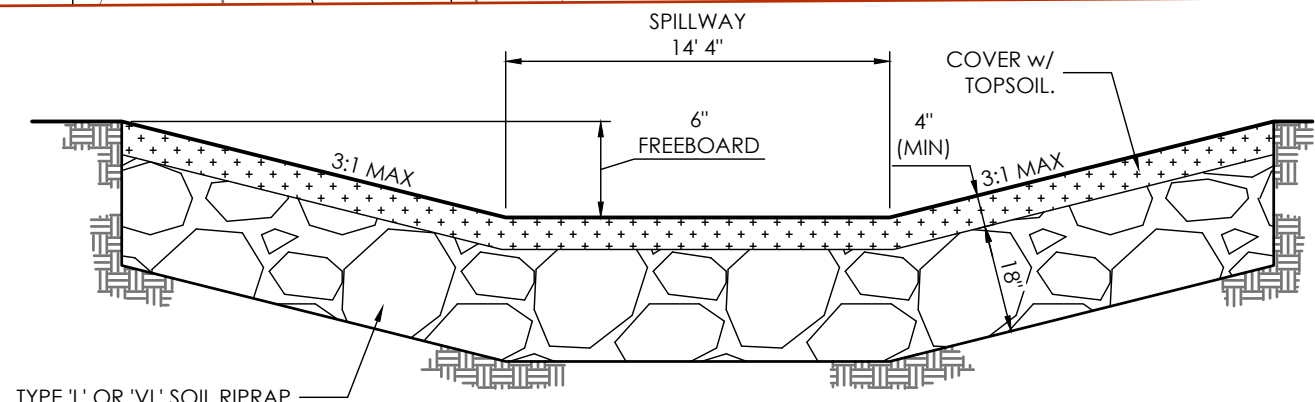


SITE PLAN SPECIFIC NOTES

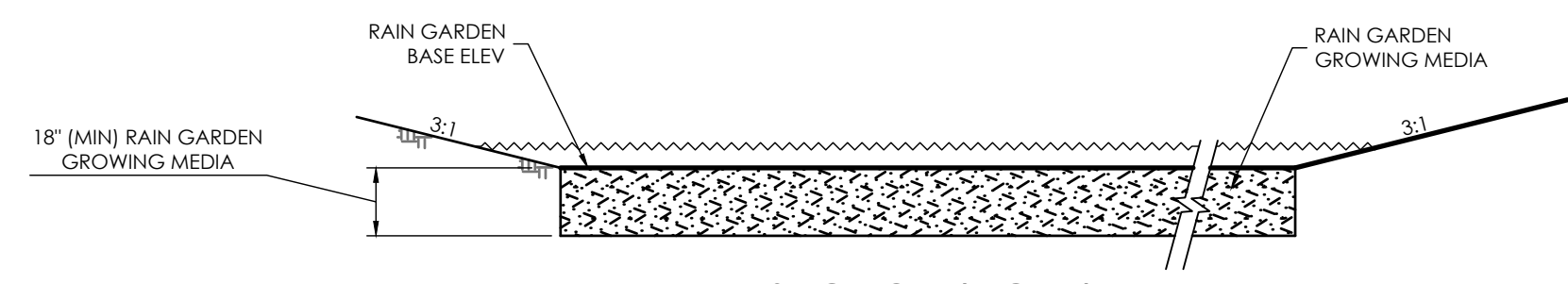
1. INSTALL 43 LF 12" HDPE PIPE W/ FES @ 1.16% FES INV IN = 74.5' FES INV OUT = 74.0'
 2. INSTALL GRASS SWALE. SEE DETAIL ON THIS SHEET.
 3. INSTALL RAIN GARDEN. SEE DETAIL ON THIS SHEET.
 4. INSTALL RIP-RAP SPILLWAY. SEE DETAIL ON THIS SHEET.
 5. INSTALL 4" CDOT CLASS 5 OR 4 AGGREGATE BASE COURSE, MIN L HVEM VALUE OF 84, MOISTURE TREATED TO WITHIN 2% OPTIMUM MOISTURE CONTENT AND COMPACTED TO 95% (±3%) MAX DRY DENSITY - MOD. PROCTOR (ASTM D1557/AASHTO T-180)
 6. INSTALL TYPE VL RIP-RAP LEVEL SPREADER. (SEE DETAIL)
 7. INSTALL RIP-RAP. SEE CONCENTRATED IN-FLOW DETAIL.
 8. INSTALL CONCRETE SIDEWALK 4" THICK (SEE DETAIL ON THIS SHEET)
 9. INSTALL CONCRETE PARKING STOP BLOCKS
 10. INSTALL CONCRETE PARKING AREA 6" THICK (SEE DETAIL ON THIS SHEET)
 11. INSTALL RAIN GARDEN FILTER MEDIA
- A HANDICAP PARKING SIGN (SEE DETAILS ON THIS SHEET)
- B HANDICAP VAN PARKING SIGN (SEE DETAILS ON THIS SHEET)



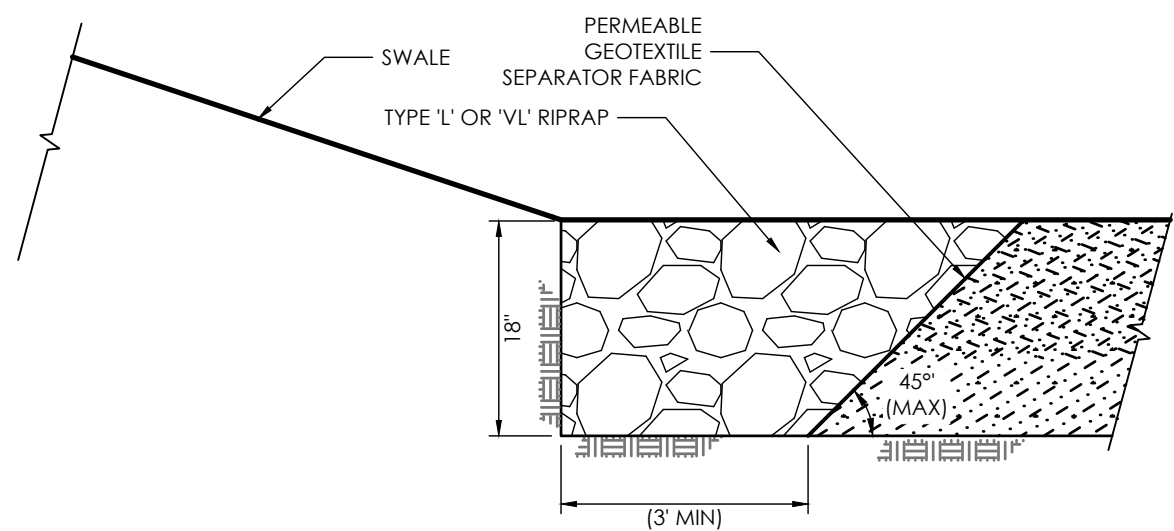
PHASE I RAIN GARDEN DETAIL
SCALE: NTS



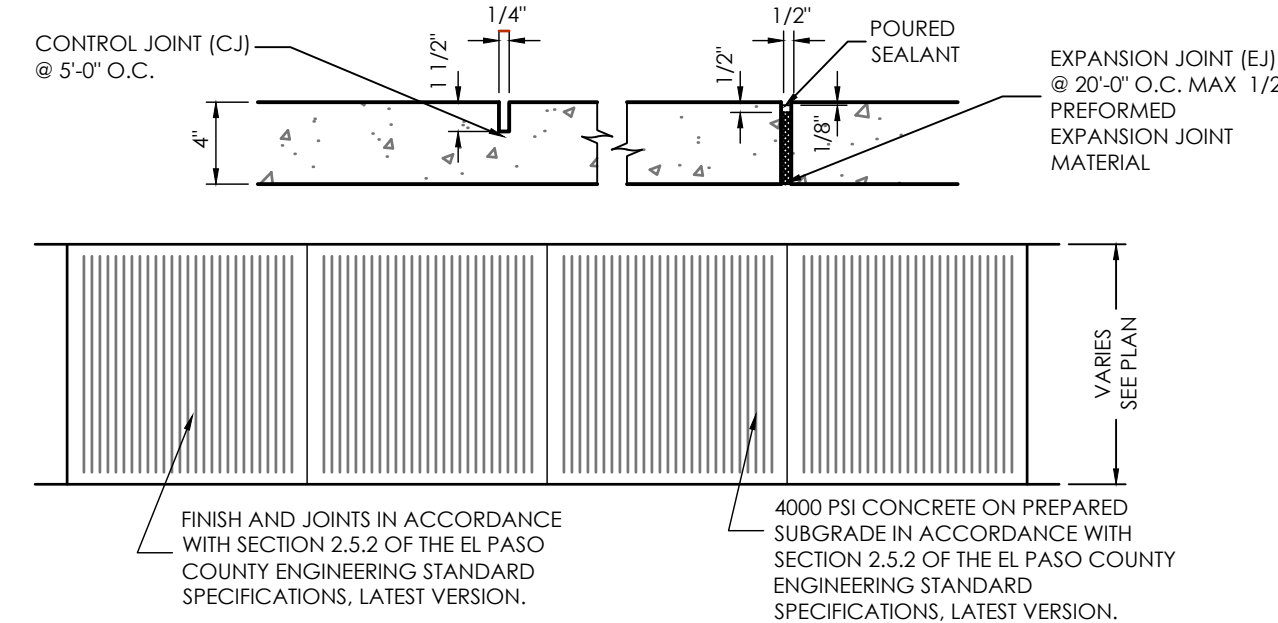
SPILLWAY DETAIL
SCALE: NTS



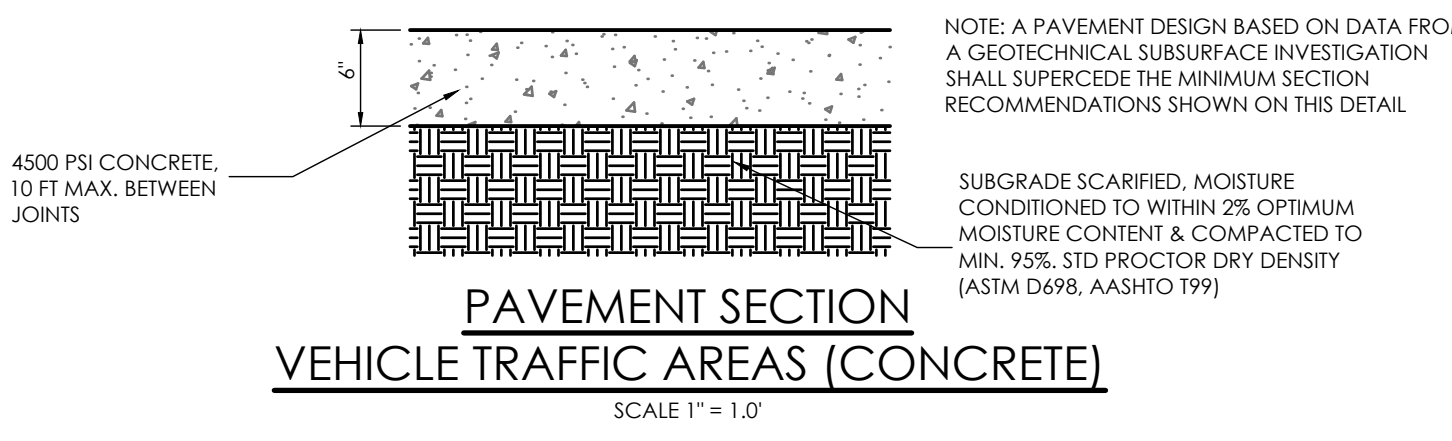
SECTION 'RG-A'
SCALE: NTS



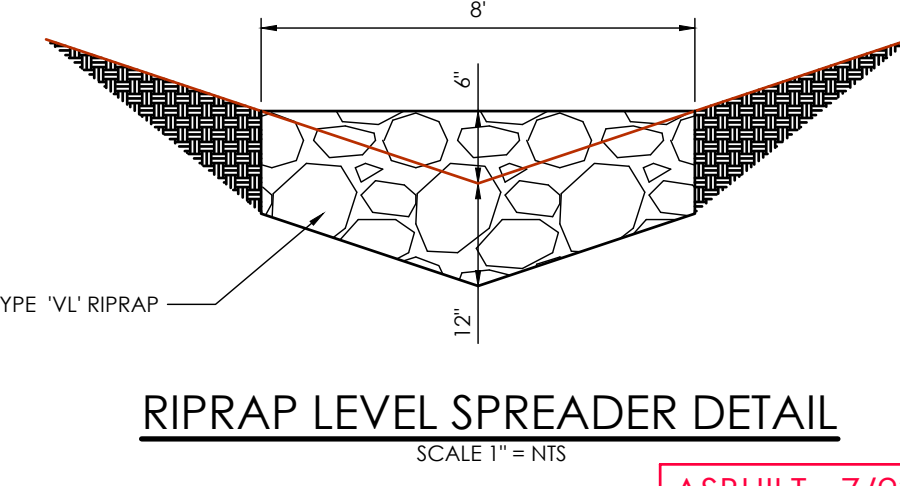
CONCENTRATED IN-FLOW DETAIL
SCALE: NTS



TYPICAL SIDEWALK DETAIL
SCALE 1" = 4.0'



PAVEMENT SECTION VEHICLE TRAFFIC AREAS (CONCRETE)
SCALE 1" = 1.0'



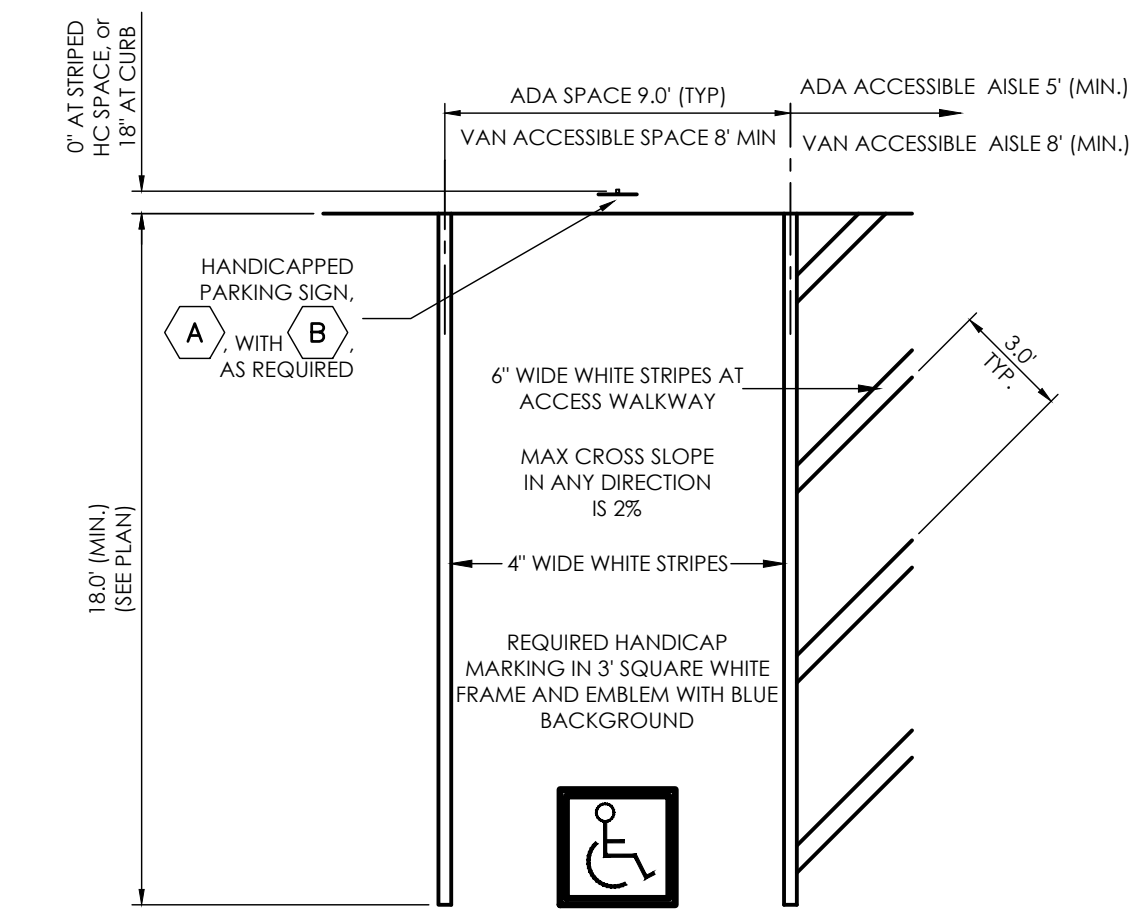
RIPRAP LEVEL SPREADER DETAIL
SCALE 1" = NTS

MAP NOTES

1. THE EXISTING TOPOGRAPHY SHOWN ON THIS PLAN WAS PREPARED AND PROVIDED BY CLARK LAND SURVEYING INC.
2. ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS MAP ARE FROM UTILITY MAIN RECORD MAPS AND UTILITY SERVICE LOCATION MAPS. THE LOCATION OF UTILITIES AS SHOWN ARE APPROXIMATE. ALL UTILITIES MAY NOT BE SHOWN OR MAY NOT HAVE BEEN LOCATED. BELOW GROUND UTILITY LOCATIONS WERE NOT PERFORMED.



SITE SIGNAGE LEGEND
SCALE 1" = 1'



TYPICAL HANDICAP PARKING SPACE
SCALE 1" = 5'

RAIN GARDEN, SPECIFICATIONS, NOTES & REFERENCES:
REFERENCE URBAN DRAINAGE AND FLOOD CONTROL DISTRICT (UDFCD), URBAN STORM DRAINAGE CRITERIA MANUAL, VOLUME 3, SECTION T-3. FOR FULL SET OF RAIN GARDEN DETAILS AND SPECIFICATIONS AS IDENTIFIED.

- **GROWING MEDIA** - BY WEIGHT, USE 3-5% ORGANIC MATERIAL; 95-97% GROWING MEDIA SAND)
- ORGANIC MATERIAL - LOOSELY PACKED, SHREDDED MULCH - AGED 6 MONTHS (MIN.)
- GROWING MEDIA SAND - PER SOIL MATERIAL GRADATION TABLE (ASTM C-33 SAND STANDARD)
- pH - 6.8-7.5
- NITROGEN - 15 ppm (MAX)
- PHOSPHORUS - 15 ppm (MAX)
- SALINITY - 6 mmhos/cm (MAX)

• **VEGETATION** - SELECT PLANTS THAT ARE DROUGHT RESISTANT AND THRIVE IN SANDY SOIL.
OPTIONAL: USE NATIVE SEED MIX PER RAIN GARDEN SEED MIX TABLE. AGGRESSIVE WEED CONTROL PROCEDURES WILL HELP THE DESIRED VEGETATION TO BECOME ESTABLISHED.

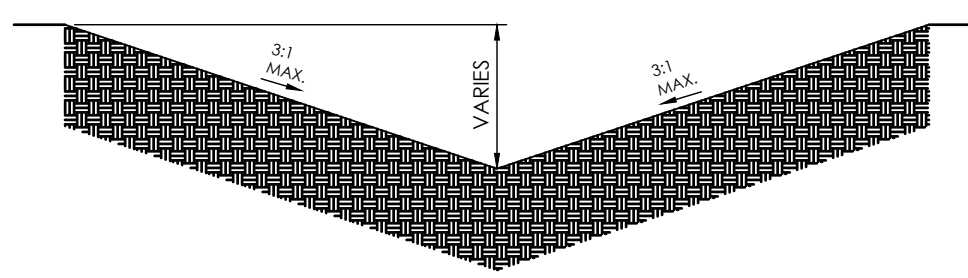
• **CONCENTRATED INFLOW** - PER CONCENTRATED INFLOW DETAIL.

STANDARD SIEVE SIZE	% PASSING
3/8" (9.5 mm)	100
NO. 4 (4.75 mm)	95 - 100
NO. 8 (2.36 mm)	80 - 100
NO. 16 (1.18 mm)	50 - 85
NO. 30 (600 um)	25 - 60
NO. 50 (300 um)	10 - 30
NO. 100 (150 um)	2 - 10

LESS THAN 1.5% ORGANIC MATERIAL

RAIN GARDEN SEED MIX TABLE ¹	
(SOURCE: UDFCD BIORETENTION (RG) TABLE B-3)	
COMMON NAME	LB/AC PLS ²
SAND BLUESTEM	3.5
SIDE-OATS GRAMA	3
PRAIRIE SANDREED	3
INDIAN RICEGRASS	3
SWITCHGRASS	4
WESTERN WHEATGRASS	3
LITTLE BLUESTEM	3
ALKALISACATON	3
SAND DROPSEED	3
TOTAL	27.5

SEE UDFCD TABLE B-3 FOR SCIENTIFIC NAMES AND WILDFLOWER MIX OPTION
¹PLS = PURE LIVE SEED



TYPICAL SWALE
SCALE 1" = 1.0'

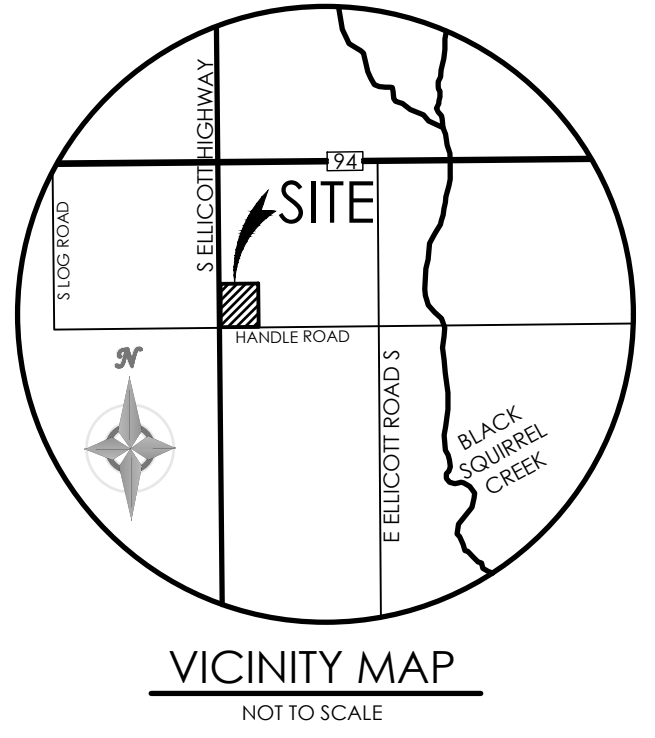
AS-BUILT RECORD SET

DESIGNED BY: BTM
DRAWN BY: BTM
CHECKED BY: BTM
AS-BUILT BY: BTM
CHECKED BY: BTM

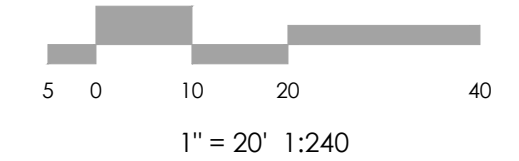
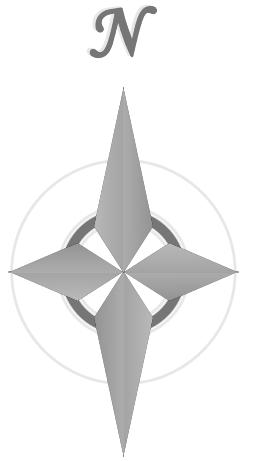
DATE: 7/23/2024

DESIGN BTM = 315 SF. / ASBUILT = 1532 SF.
DESIGN VOL = 1102 CF. / ASBUILT = 2240 CF.

M.V.E., INC.
PCD FILE # PPR2250



BENCHMARK
THE EXISTING TOPOGRAPHY SHOWN ON THIS PLAN WAS PREPARED BY AND PROVIDED BY CLARK LAND SURVEYING INC. ELEVATIONS SHOWN ARE RELATIVE TO THE NAVD 88 VERTICAL DATUM.



MVE, INC.
ENGINEERS & SURVEYORS

1903 Leary Street, Suite 200 Colorado Springs, CO 80909 719.635.5736

REVISIONS
REMOVED RIPRAP ITEM 4, EXISTING GRADE DID NOT WARRANT SWALE/RIPRAP.

ADDED ROOF DRAINS TO SOUTHERN GRASS SWALE ITEM 2 & REMOVED BERM.

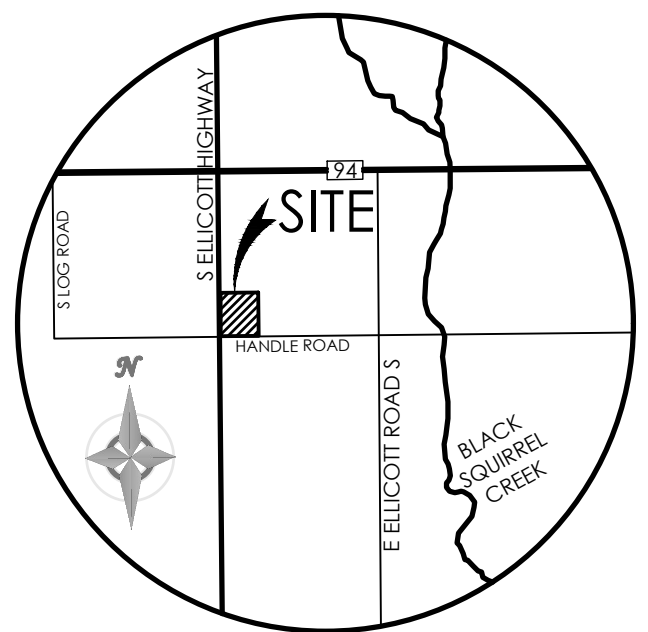
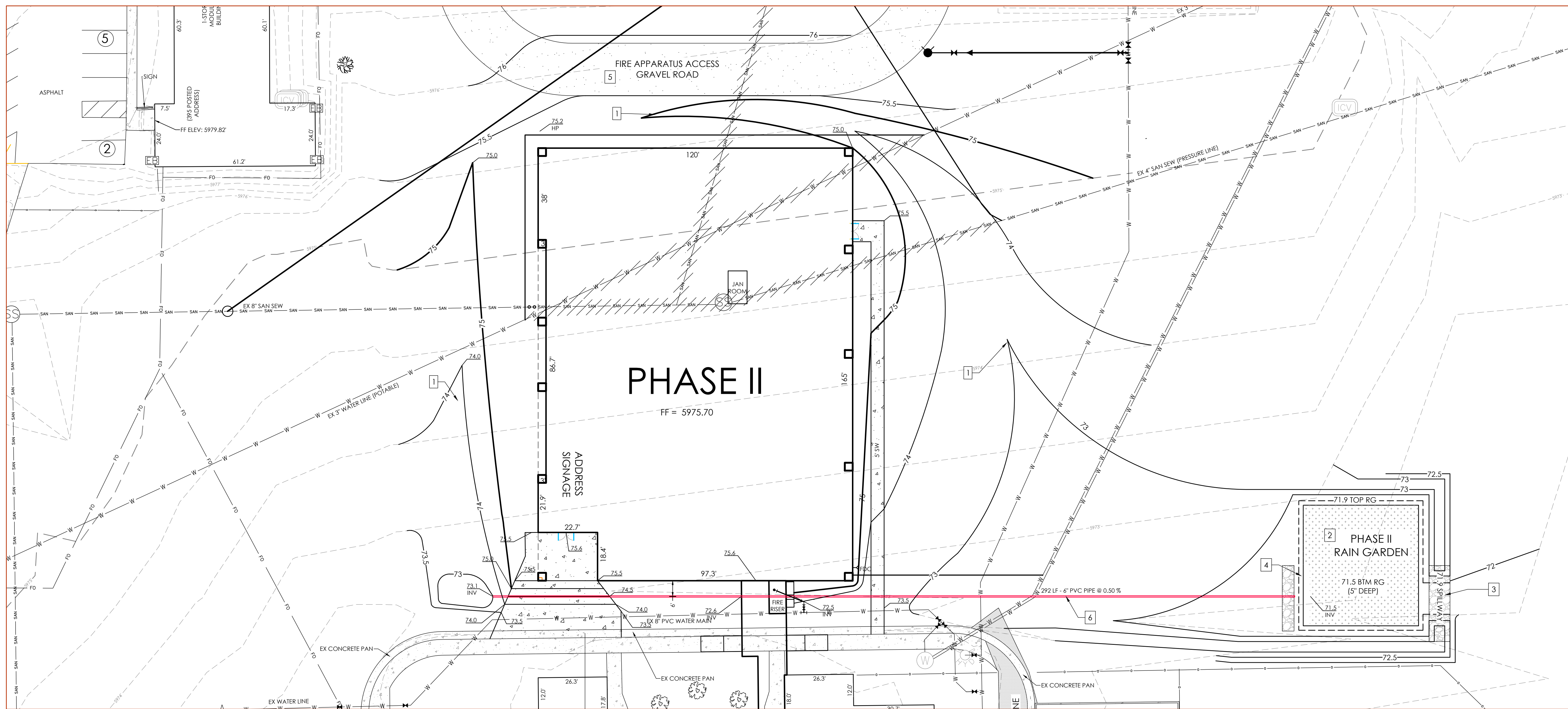
DESIGNED BY: _____
DRAWN BY: _____
CHECKED BY: _____
AS-BUILT BY: _____
CHECKED BY: _____

ELLICOTT SCHOOL ADDITION 2 BLDGS

PHASE I GRADING PLAN

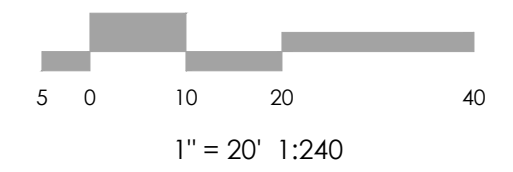
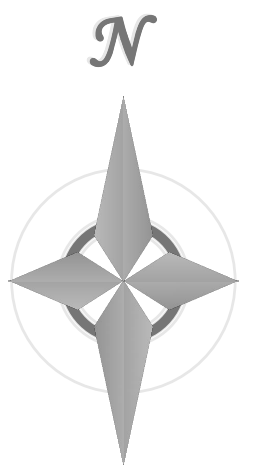
C1.2 MVE PROJECT 61183
MVE DRAWING GEC-GP-I

APRIL 5, 2023
SHEET 2 OF 7



VICINITY MAP
NOT TO SCALE

BENCHMARK
THE EXISTING TOPOGRAPHY SHOWN ON THIS PLAN WAS PREPARED BY AND PROVIDED BY CLARK LAND SURVEYING INC. ELEVATIONS SHOWN ARE RELATIVE TO THE NAVD 88 VERTICAL DATUM.



MVE, INC.
ENGINEERS / SURVEYORS
1903 Library Street, Suite 200 Colorado Springs CO 80909 719.635.5736

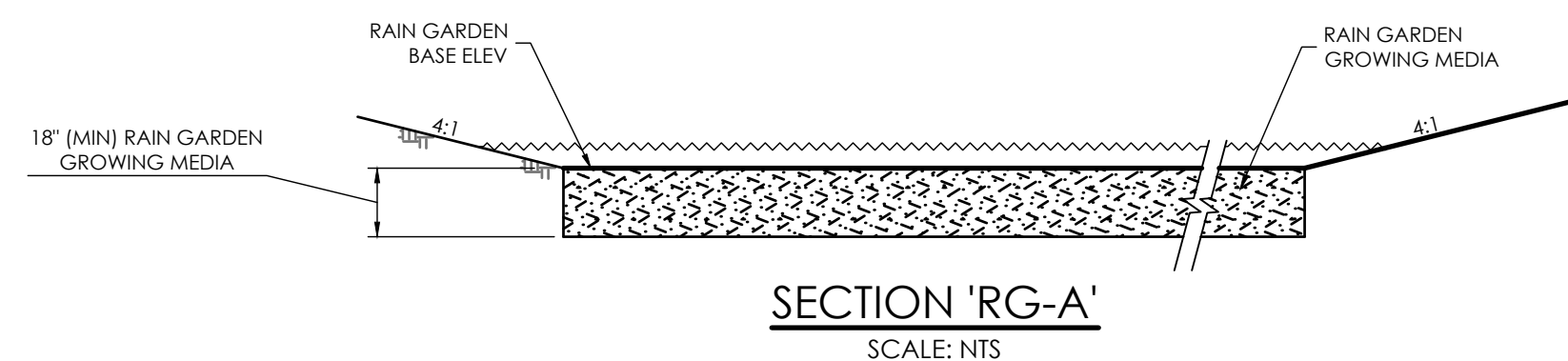
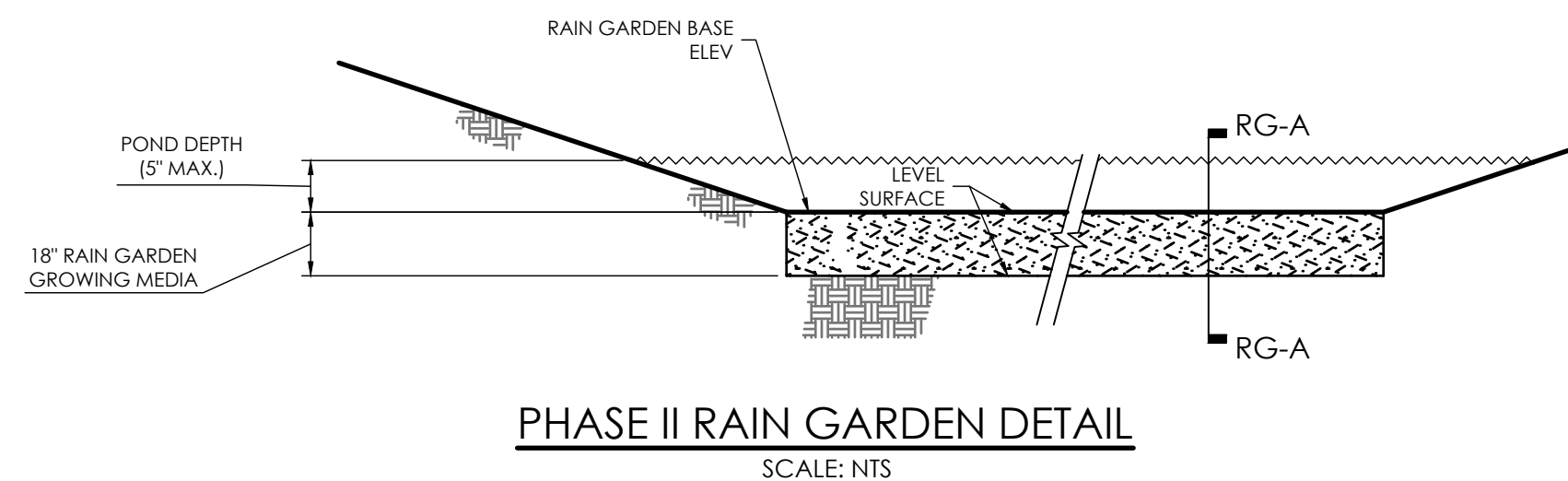
SITE PLAN SPECIFIC NOTES

1. INSTALL GRASS SWALE. SEE DETAIL ON THIS SHEET.
2. INSTALL RAIN GARDEN. SEE DETAIL ON THIS SHEET.
3. INSTALL RIP-RAP SPILLWAY. SEE DETAIL ON THIS SHEET.
4. INSTALL RIP-RAP. SEE CONCENTRATED IN-FLOW DETAIL.
5. INSTALL 6" CDOT CLASS 5 OR 6 AGGREGATE BASE COURSE, MIN L HVEEM VALUE OF 84, MOISTURE TREATED TO WITHIN 2% OPTIMUM MOISTURE CONTENT AND COMPACTED TO 95% (±3%) MAX DRY DENSITY - MOD. PROCTOR (ASTM D1557/AASHTO T-180)
6. INSTALL 6" PVC PIPE.

MAP NOTES

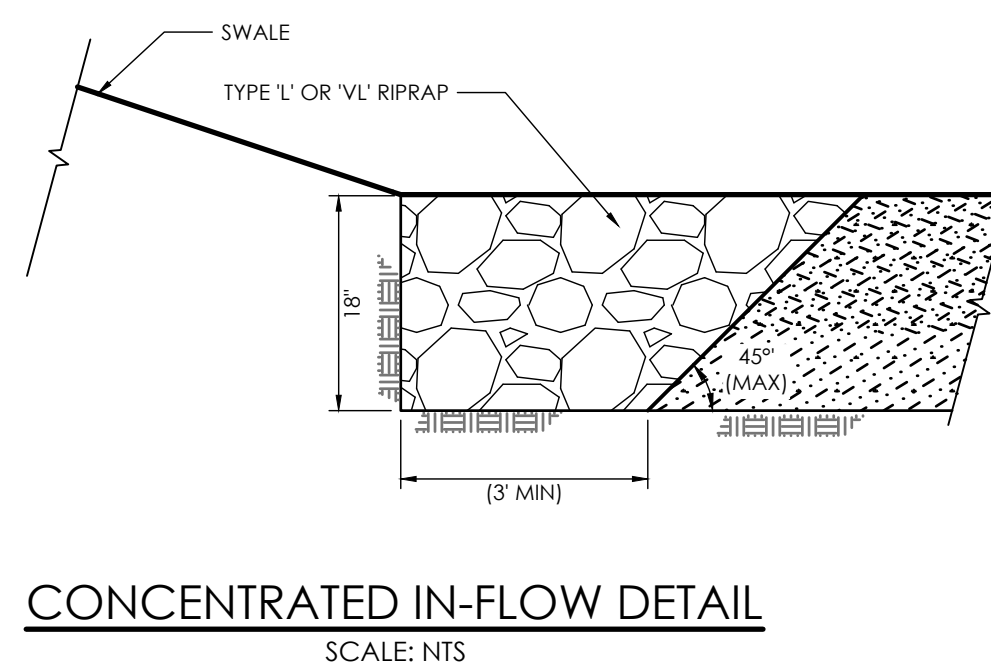
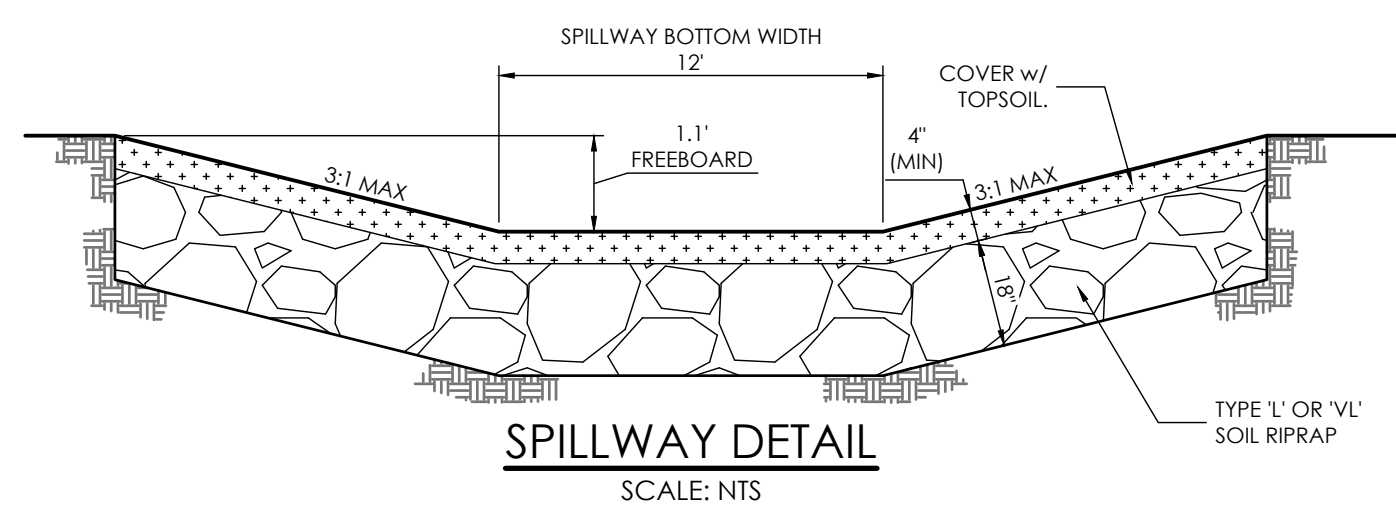
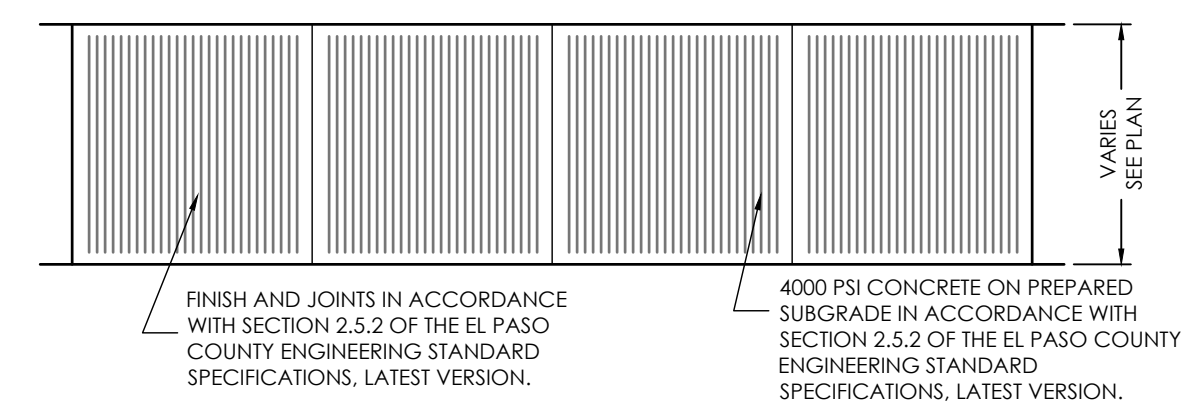
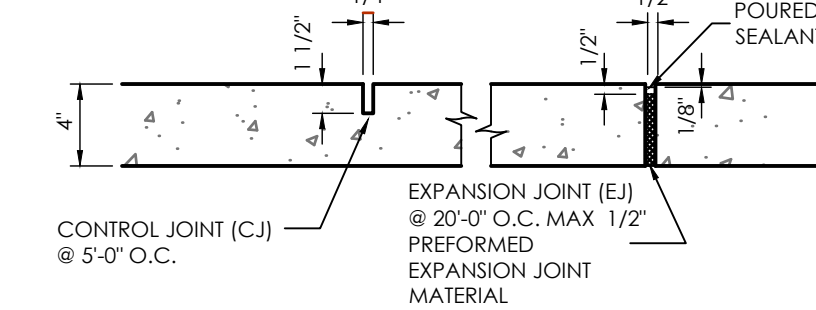
1. THE EXISTING TOPOGRAPHY SHOWN ON THIS PLAN WAS PREPARED AND PROVIDED BY CLARK LAND SURVEYING INC.
2. ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS MAP ARE FROM UTILITY MAIN RECORD MAPS AND UTILITY SERVICE LOCATION MAPS. THE LOCATION OF UTILITIES AS SHOWN ARE APPROXIMATE. ALL UTILITIES MAY NOT BE SHOWN OR MAY NOT HAVE BEEN LOCATED. BELOW GROUND UTILITY LOCATIONS WERE NOT PERFORMED.

RAIN GARDEN, SPECIFICATIONS, NOTES & REFERENCES:
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 - **GROWING MEDIA** (BY WEIGHT, USE 3-5% ORGANIC MATERIAL; 95-97% GROWING MEDIA SAND)
 • ORGANIC MATERIAL - LOOSELY PACKED, SHREDDED MULCH - AGED 6 MONTHS (MIN)
 • GROWING MEDIA SAND - PER SOIL MATERIAL GRADATION TABLE MEDIA SAND - PER SOIL MATERIAL GRADATION TABLE (ASTM C-33 SAND STANDARD)
 • pH - 6.8-7.5
 • NITROGEN - 15 ppm (MAX)
 • PHOSPHORUS - 15 ppm (MAX)
 • SALINITY - 6 mmhos/cm (MAX)
 - **VEGETATION** - SELECT PLANTS THAT ARE DROUGHT RESISTANT AND THRIVE IN SANDY SOIL. OPTIONAL: USE NATIVE SEED MIX PER RAIN GARDEN SEED MIX TABLE. AGGRESSIVE WEED CONTROL PROCEDURES WILL HELP THE DESIRED VEGETATION TO BECOME ESTABLISHED.
 - **CONCENTRATED INFLOW** - PER CONCENTRATED INFLOW DETAIL.



GROWING MEDIA SAND ¹		RAIN GARDEN SEED MIX TABLE ²	
STANDARD SIEVE SIZE	% PASSING	COMMON NAME	LB/AC PLS ²
3/8" (9.5 mm)	100	SAND BLUESTEM	3.5
NO. 4 (4.75 mm)	95 - 100	SIBBOATS GRAMA	3
NO. 8 (2.36 mm)	80 - 100	PIEARSE SANDREED	3
NO. 16 (1.18 mm)	50 - 85	INDIAN RICEGRASS	3
NO. 30 (600 um)	25 - 40	SWITCHGRASS	4
NO. 50 (300 um)	10 - 30	WESTERN WHEATGRASS	3
NO. 100 (150 um)	2 - 10	LITTLE BLUESTEM	3
		ALKALI SACATON	3
		SAND DROPSIED	3
		TOTAL	27.5

¹LESS THAN 1.5% ORGANIC MATERIAL
²SEE UDFCD TABLE B-3 FOR SCIENTIFIC NAMES AND WILDFLOWER MIX OPTION
³PLS = PURE LIVE SEED



REVISIONS
REMOVED CONCRETE PAN AND REPLACED WITH DRAIN PIPE FOR BREEZEWAY.
REVISED RAIN GARDEN.

DESIGNED BY _____
DRAWN BY _____
CHECKED BY _____
AS-BUILT BY _____
CHECKED BY _____

ELLICOTT SCHOOL
ADDITION 2 BLDGS

PHASE II
GRADING PLAN

C1.4

MVE PROJECT 61183
MVE DRAWING GEC-GP-II

APRIL 5, 2023
SHEET 4 OF 7

ASBUILT - 7/23/2024
DESIGN BTM = 1964 SF. / ASBUILT = 2300 SF.
DESIGN VOL = 896 CF. / ASBUILT = 1025 CF.

AS-BUILT RECORD SET
M.V.E., INC.

PCD FILE # PPR2250