

WILLIAM WINCHESTER ELEMENTARY SCHOOL

PRE-KINDERGARTEN ADDITION CARROLL COUNTY PUBLIC SCHOOLS



WILLIAM WINCHESTER ELEMENTARY

SCHOOL - PRE-K ADDITION

70 MONROE STREET,
WESTMINSTER, MD 21157

ELECTION DISTRICT 07

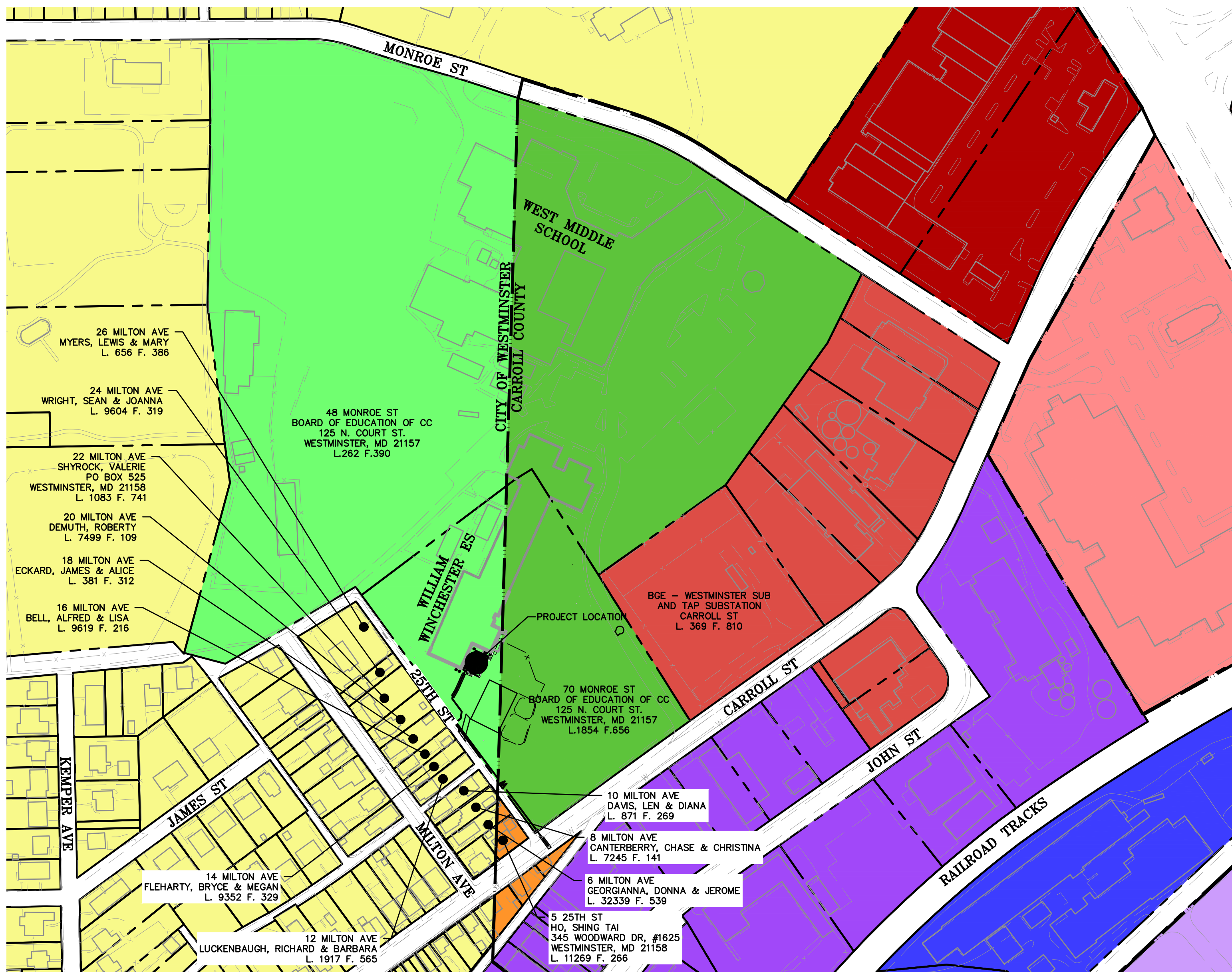
EXISTING/PROPOSED USE: ELEMENTARY SCHOOL

PROJECT NO:	84149
DATE:	FEBRUARY 24, 2025
REVISIONS	
DATE	DESCRIPTION
02/24/25	DD PRICING SET

**CIVIL COVER
SHEET**

COUNTY FILE: S-24-0031
SHEET 1 OF 16

C-001



ZONING LEGEND

WESTMINSTER

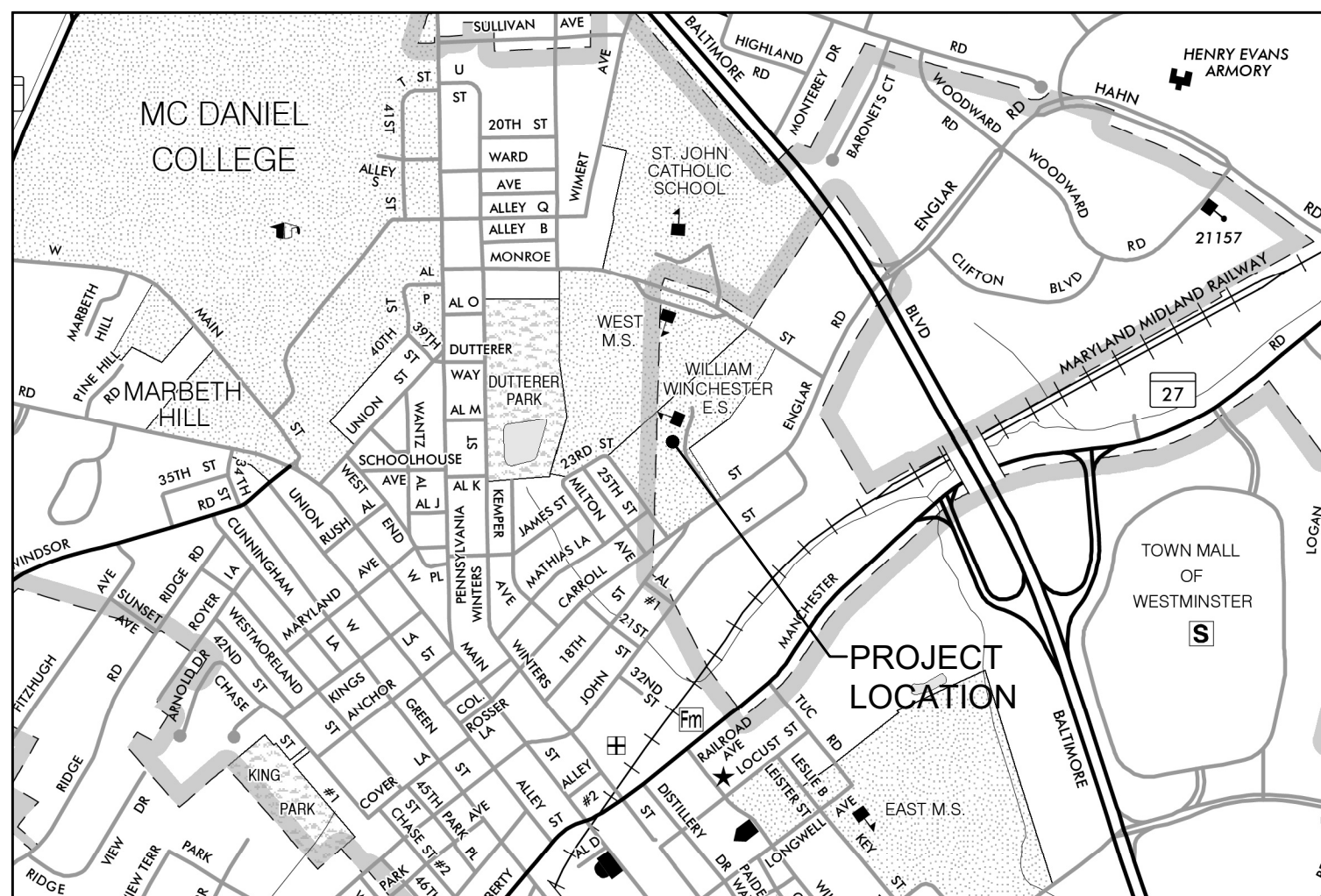
R-7,500
C
B
I-R

CARROLL COUNTY

CONSERVATION
C-2
C-3
I-1
R-7,500
I-2

1 OVERALL SITE PLAN SCALE: 1"=150'

EXISTING FACULTY AND STAFF: 93
EXISTING STUDENTS: 587
PROPOSED FACULTY AND STAFF: 95
PROPOSED STUDENTS: 630



1 VICINITY MAP SCALE: 1"=1000'

GENERAL NOTES

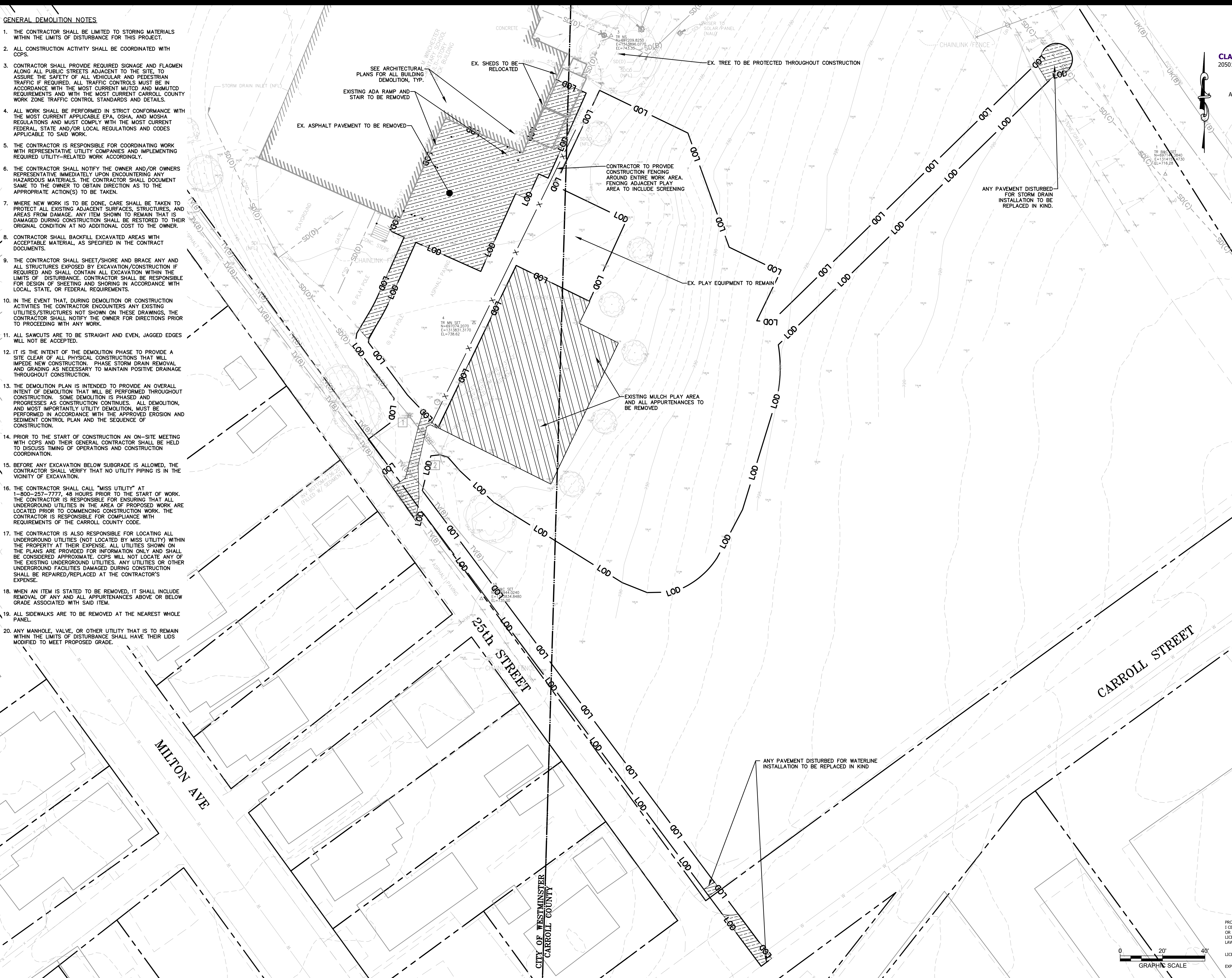
- OWNER: BOARD OF EDUCATION OF CARROLL COUNTY
125 N. COURT ST
WESTMINSTER, MD 21157
CARROLL COUNTY PUBLIC SCHOOLS
125 N. COURT ST
WESTMINSTER, MD 21157
- ADDRESS: WILLIAM WINCHESTER ELEMENTARY SCHOOL
70 MONROE ST
WESTMINSTER, MD 21157
- MAP GRID: 39 BLOCK: 19 PARCEL: --
- ELECTION DISTRICT: 3
- ZONING: CONSERVATION
- TAX ACCOUNT ID: 003420
- NEAREST FIRE PROTECTION SUPPLY: PROPOSED FIRE HYDRANT ON PROPERTY
- TOTAL SITE AREA: 5.243 AC
- TOTAL DEVELOPMENT AREA: 0.714 AC
- TOPOGRAPHY SURVEY PERFORMED BY DIETZ SURVEYING INC., DATED OCTOBER 2024.
- THE HORIZONTAL DATUM OF THIS SURVEY IS MARYLAND STATE PLANE (NAD83-2011), AS ESTABLISHED BY GPS OBSERVATION. THE COMBINED FACTOR IS 0.99997699.
- THE VERTICAL DATUM OF THIS SURVEY IS NAVD 88
- THE LOCATION OF UNDERGROUND UTILITIES IS BASED ON UTILITY LOCATING PROVIDED BY AI DATA DATED NOVEMBER 2024. ALL UTILITIES REPRESENT A PROFESSIONAL OPINION AND INTERPRETATION BASED ON RECORD INDICATIONS AND FIELD EVIDENCE INCLUDING THE USE OF ELECTRONIC UTILITY DETECTION EQUIPMENT. CONTRACTOR TO CONFIRM ALL UTILITY INFORMATION IN THE FIELD PRIOR TO EXCAVATION.
- NRCS WEB SOIL SURVEY IDENTIFIES SOILS AT THIS SITE AS URBAN LAND UDOHMENTS COMPLEX (HSG "D"), GLENELG-URBAN LAND COMPLEX (HSG "B") AND WHEATON-GLENELG COMPLEX (HSG "B").
- THERE IS NO MAPPED FLOODPLAIN ASSOCIATED WITH THIS SITE PER FEMA FLOOD INSURANCE RATE MAP NUMBER 24013C02030, DATED OCT. 2, 2015.
- DETAIL DRAWINGS AND SCHEDULES DESCRIBE CONSTRUCTION AT GIVEN AREAS. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL UTILIZE EQUIVALENT CONSTRUCTION METHODS IN ALL AREAS NOT DETAILED.
- ALL NOTES ON DRAWINGS SHALL BE ASSUMED AS TYPICAL, UNLESS OTHERWISE SHOWN OR NOTED ON THE DRAWINGS.
- IT SHALL BE THE DUTY OF THE CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS GIVEN ON THE DRAWINGS AND TO REPORT TO THE ENGINEER ANY ERROR OR INCONSISTENCY WITH THE ACTUAL CIRCUMSTANCES IN THE FIELD BEFORE COMMENCING WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL ITEMS REQUIRED TO PROVIDE A SITE CLEAR OF OBSTRUCTIONS (ABOVE & BELOW GRADE) AND GRADED TO SPECIFIED ELEVATIONS.
- ALL BIDDERS: THE CONTRACTOR SHALL VISIT THE SITE TO FAMILIARIZE HIM/HERSELF WITH THE EXISTING CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED PRIOR TO SUBMITTING BID.
- IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL SITE SUB-CONTRACTORS/BIDDERS WITH FULL AND COMPLETE SETS OF ALL CIVIL DRAWINGS AND SPECIFICATIONS FOR THEIR USE IN PREPARING BIDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DELAYS AND COSTS ARISING DURING CONSTRUCTION FROM BIDS BASED UPON INCOMPLETE SETS OF SITE BID DOCUMENTS.
- ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY, SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST CARROLL COUNTY STANDARDS AND SPECIFICATIONS. THIS WORK INCLUDES, BUT NOT LIMITED TO: REPAIRING; RESTORING; AND OBTAINING FINAL INSPECTION APPROVALS.
- PRIOR TO VEGETATIVE STABILIZATION, ALL DISTURBED AREAS MUST BE TOPSOILED PER THE SPECIFICATION FOR TOPSOIL (SEE SHEET C-XXX) AND TECHNICAL SPECIFICATIONS. IF ON-SITE MATERIALS DO NOT MEET REQUIREMENTS OF TOPSOIL, COORDINATE WITH CCOPS REGARDING TILLING-IN OF CERTIFIED COMPOST TO ON-SITE SOILS IN ORDER TO MEET SPECIFICATION.
- ANY DISCREPANCIES, OMISSIONS, AMBIGUITIES, OR CONFLICTS IN AND AMONG THE CONSTRUCTION DOCUMENTS OR DOUBT ABOUT THEIR MEANING, SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER FOR DIRECTION BEFORE PROCEEDING WITH WORK. IF AMBIGUITIES EXIST, THE BETTER QUALITY AND GREATER QUANTITY OF WORK SHALL BE BID UPON AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE INDICATED BY THE OWNER IN WRITING.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL TRADE PERMITS AND PAY FEES ASSOCIATED WITH SAID PERMITS.
- CLARK | AZAR & ASSOCIATES WILL RELEASE CAD BASE FILES OF THE SITE CIVIL DRAWINGS TO THE SUCCESSFUL CONTRACTOR WITHOUT FEE AFTER A RELEASE IS SIGNED. NO CAD FILES WILL BE RELEASED PRIOR TO AWARD OF CONTRACT.

0 150' 300'
GRAPHIC SCALE

PROFESSIONAL CERTIFICATION:
I CERTIFY THAT THESE DOCUMENTS WERE PREPARED
OR APPROVED BY ME, AND THAT I AM A DULY
LICENSED PROFESSIONAL ENGINEER UNDER THE
LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 31168
EXPIRATION DATE: 01/12/2027

GENERAL DEMOLITION NOTES

1. THE CONTRACTOR SHALL BE LIMITED TO STORING MATERIALS WITHIN THE LIMITS OF DISTURBANCE FOR THIS PROJECT.
2. ALL CONSTRUCTION ACTIVITY SHALL BE COORDINATED WITH COPS.
3. CONTRACTOR SHALL PROVIDE REQUIRED SIGNAGE AND FLAGMEN ALONG ALL PUBLIC STREETS ADJACENT TO THE SITE, TO ASSURE THE SAFETY OF ALL VEHICULAR AND PEDESTRIAN TRAFFIC IF REQUIRED. ALL TRAFFIC CONTROLS MUST BE IN ACCORDANCE WITH THE MOST CURRENT MUTCD AND MAMUTCD REQUIREMENTS AND WITH THE MOST CURRENT CARROLL COUNTY WORK ZONE TRAFFIC CONTROL STANDARDS AND DETAILS.
4. ALL WORK SHALL BE PERFORMED IN STRICT CONFORMANCE WITH THE MOST CURRENT APPLICABLE EPA, OSHA, AND MOSHA REGULATIONS AND MUST COMPLY WITH THE MOST CURRENT FEDERAL, STATE AND/OR LOCAL REGULATIONS AND CODES APPLICABLE TO SAID WORK.
5. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WORK WITH REPRESENTATIVE UTILITY COMPANIES AND IMPLEMENTING REQUIRED UTILITY-RELATED WORK ACCORDINGLY.
6. THE CONTRACTOR SHALL NOTIFY THE OWNER AND/OR OWNERS REPRESENTATIVE IMMEDIATELY UPON ENCOUNTERING ANY HAZARDOUS MATERIALS. THE CONTRACTOR SHALL DOCUMENT SAME TO THE OWNER TO OBTAIN DIRECTION AS TO THE APPROPRIATE ACTION(S) TO BE TAKEN.
7. WHERE NEW WORK IS TO BE DONE, CARE SHALL BE TAKEN TO PROTECT ALL EXISTING ADJACENT SURFACES, STRUCTURES, AND AREAS FROM DAMAGE. ANY ITEM SHOWN TO REMAIN THAT IS DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
8. CONTRACTOR SHALL BACKFILL EXCAVATED AREAS WITH ACCEPTABLE MATERIAL, AS SPECIFIED IN THE CONTRACT DOCUMENTS.
9. THE CONTRACTOR SHALL SHEET/SHORE AND BRACE ANY AND ALL STRUCTURES EXPOSED BY EXCAVATION/CONSTRUCTION IF REQUIRED AND SHALL CONTAIN ALL EXCAVATION WITHIN THE LIMITS OF DISTURBANCE. CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN OF SHEETING AND SHORING IN ACCORDANCE WITH LOCAL, STATE, OR FEDERAL REQUIREMENTS.
10. IN THE EVENT THAT, DURING DEMOLITION OR CONSTRUCTION ACTIVITIES THE CONTRACTOR ENCOUNTERS ANY EXISTING UTILITIES/STRUCTURES NOT SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE OWNER FOR DIRECTIONS PRIOR TO PROCEEDING WITH ANY WORK.
11. ALL SAWCUTS ARE TO BE STRAIGHT AND EVEN, JAGGED EDGES WILL NOT BE ACCEPTED.
12. IT IS THE INTENT OF THE DEMOLITION PHASE TO PROVIDE A SITE CLEAR OF ALL PHYSICAL CONSTRUCTIONS THAT WILL IMPEDE NEW CONSTRUCTION. PHASE STORM DRAIN REMOVAL AND GRADING AS NECESSARY TO MAINTAIN POSITIVE DRAINAGE THROUGHOUT CONSTRUCTION.
13. THE DEMOLITION PLAN IS INTENDED TO PROVIDE AN OVERALL INTENT OF DEMOLITION THAT WILL BE PERFORMED THROUGHOUT CONSTRUCTION. SOME DEMOLITION IS PHASED AND PROGRESSES AS CONSTRUCTION CONTINUES. ALL DEMOLITION, AND MOST IMPORTANTLY UTILITY DEMOLITION, MUST BE PERFORMED IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN AND THE SEQUENCE OF CONSTRUCTION.
14. PRIOR TO THE START OF CONSTRUCTION AN ON-SITE MEETING WITH COPS AND THEIR GENERAL CONTRACTOR SHALL BE HELD TO DISCUSS TIMING OF OPERATIONS AND CONSTRUCTION COORDINATION.
15. BEFORE ANY EXCAVATION BELOW SUBGRADE IS ALLOWED, THE CONTRACTOR SHALL VERIFY THAT NO UTILITY PIPING IS IN THE VICINITY OF EXCAVATION.
16. THE CONTRACTOR SHALL CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL UNDERGROUND UTILITIES IN THE AREA OF PROPOSED WORK ARE LOCATED PRIOR TO COMMENCING CONSTRUCTION WORK. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF THE CARROLL COUNTY CODE.
17. THE CONTRACTOR IS ALSO RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES (NOT LOCATED BY MISS UTILITY) WITHIN THE PROPERTY AT THEIR EXPENSE. ALL UTILITIES SHOWN ON THE PLANS ARE PROVIDED FOR INFORMATION ONLY AND SHALL BE CONSIDERED APPROXIMATE. COPS WILL NOT LOCATE ANY OF THE EXISTING UNDERGROUND UTILITIES. ANY UTILITIES OR OTHER UNDERGROUND FACILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED/REPLACED AT THE CONTRACTOR'S EXPENSE.
18. WHEN AN ITEM IS STATED TO BE REMOVED, IT SHALL INCLUDE REMOVAL OF ANY AND ALL APPURTENANCES ABOVE OR BELOW GRADE ASSOCIATED WITH SAID ITEM.
19. ALL SIDEWALKS ARE TO BE REMOVED AT THE NEAREST WHOLE PANEL.
20. ANY MANHOLE, VALVE, OR OTHER UTILITY THAT IS TO REMAIN WITHIN THE LIMITS OF DISTURBANCE SHALL HAVE THEIR LIDS MODIFIED TO MEET PROPOSED GRADE.



CLARK | AZAR & ASSOCIATES
20501 Seneca Meadows Parkway, St 230
Germantown, MD. 20876
T(301) 528-2010
www.clarkazar.com
A Woman Owned Small Business

MOSELEYARCHITECTS



COPS
OWNER/DEVELOPER:
BOARD OF ED OF CARROLL COUNTY
CARROLL COUNTY PUBLIC SCHOOLS
125 N. COURT ST.
WESTMINSTER, MD 21157
C/O BILL CAME
WECAME@CARROLLK12.ORG
410-386-1817

**WILLIAM WINCHESTER ELEMENTARY
SCHOOL - PRE-K ADDITION**
70 MONROE STREET,
WESTMINSTER, MD 21157
ELECTION DISTRICT 07
EXISTING/PROPOSED USE: ELEMENTARY SCHOOL

PROJECT NO.	841449
DATE:	FEBRUARY 24, 2025
REVISIONS	
DATE	DESCRIPTION
02/24/25	DD PRICING SET

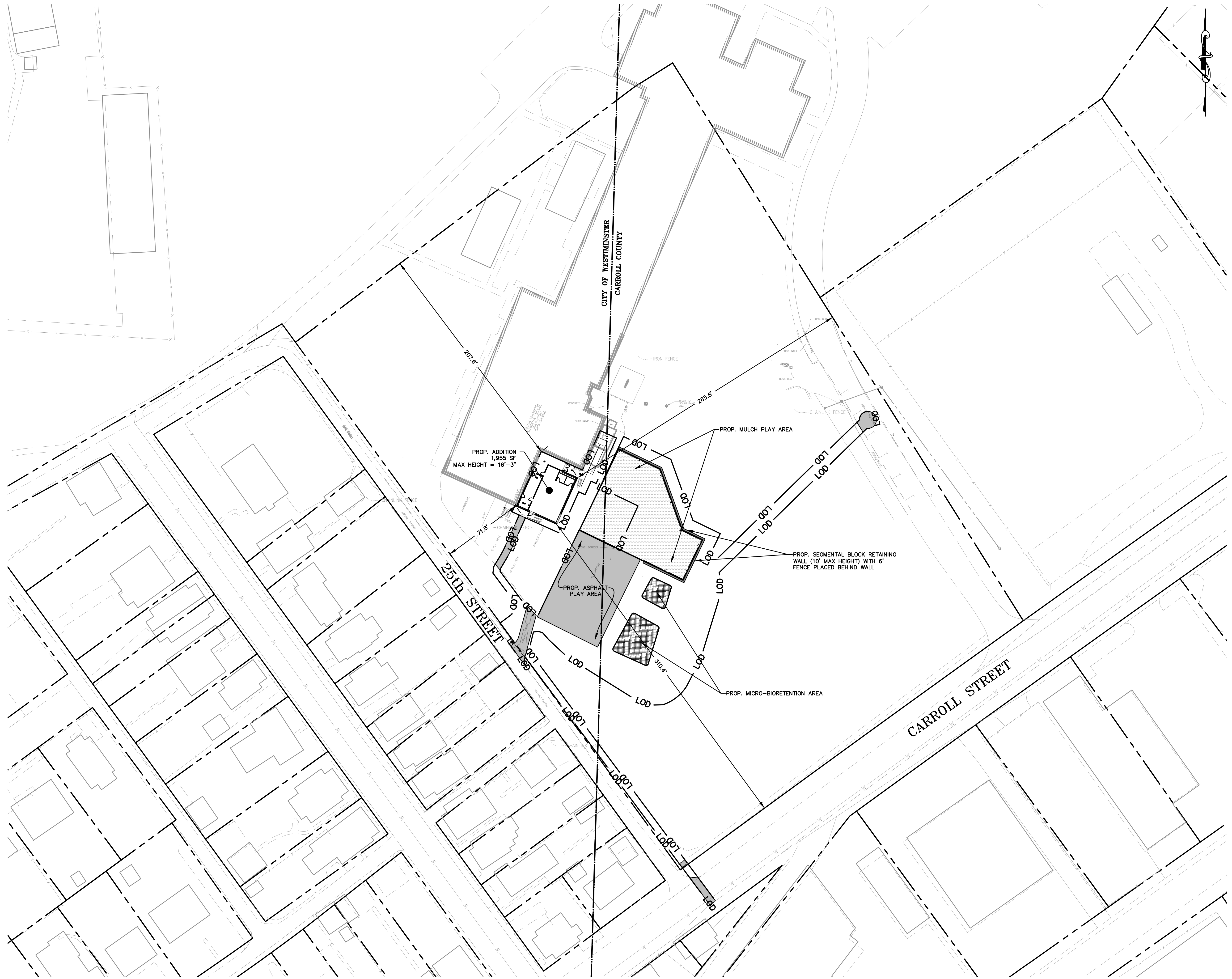
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LICENSE NO. 31168
EXPIRATION DATE: 01/12/2027

**EXISTING
CONDITIONS AND
DEMOLITION PLAN**

COUNTY FILE: S-24-0031
SHEET 2 OF 16

C-100



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PHONE (410) 539-4900 FAX (410) 539-0660
MOSELEYARCHITECTS.COM



CCOPS
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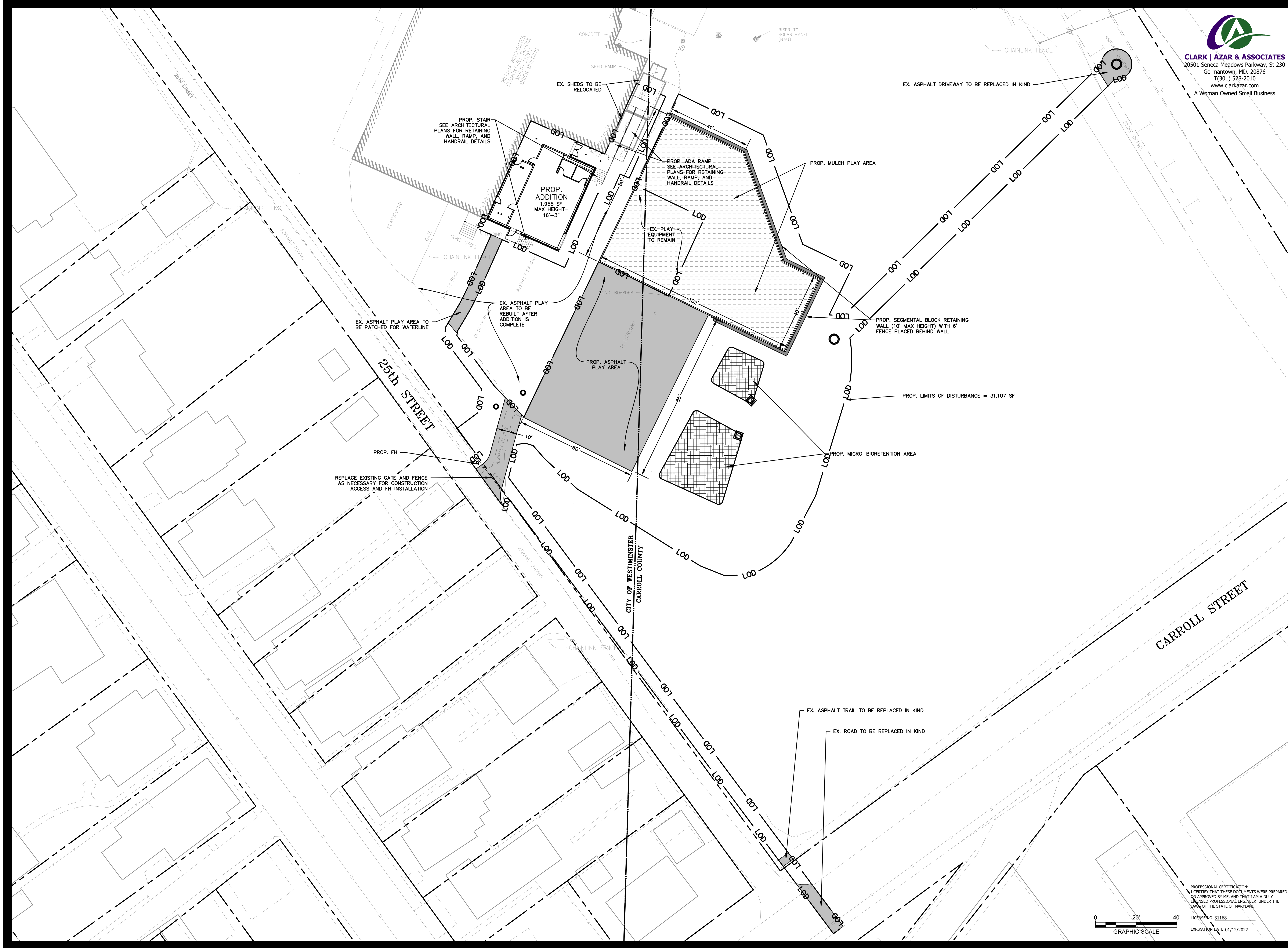
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0 40' 80'
GRAPHIC SCALE

**OVERALL SITE
PLAN**

COUNTY FILE: S-24-0031
SHEET 3 OF 16

C-200



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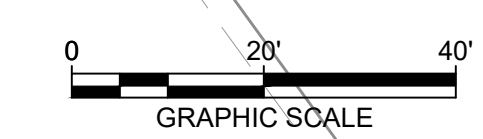
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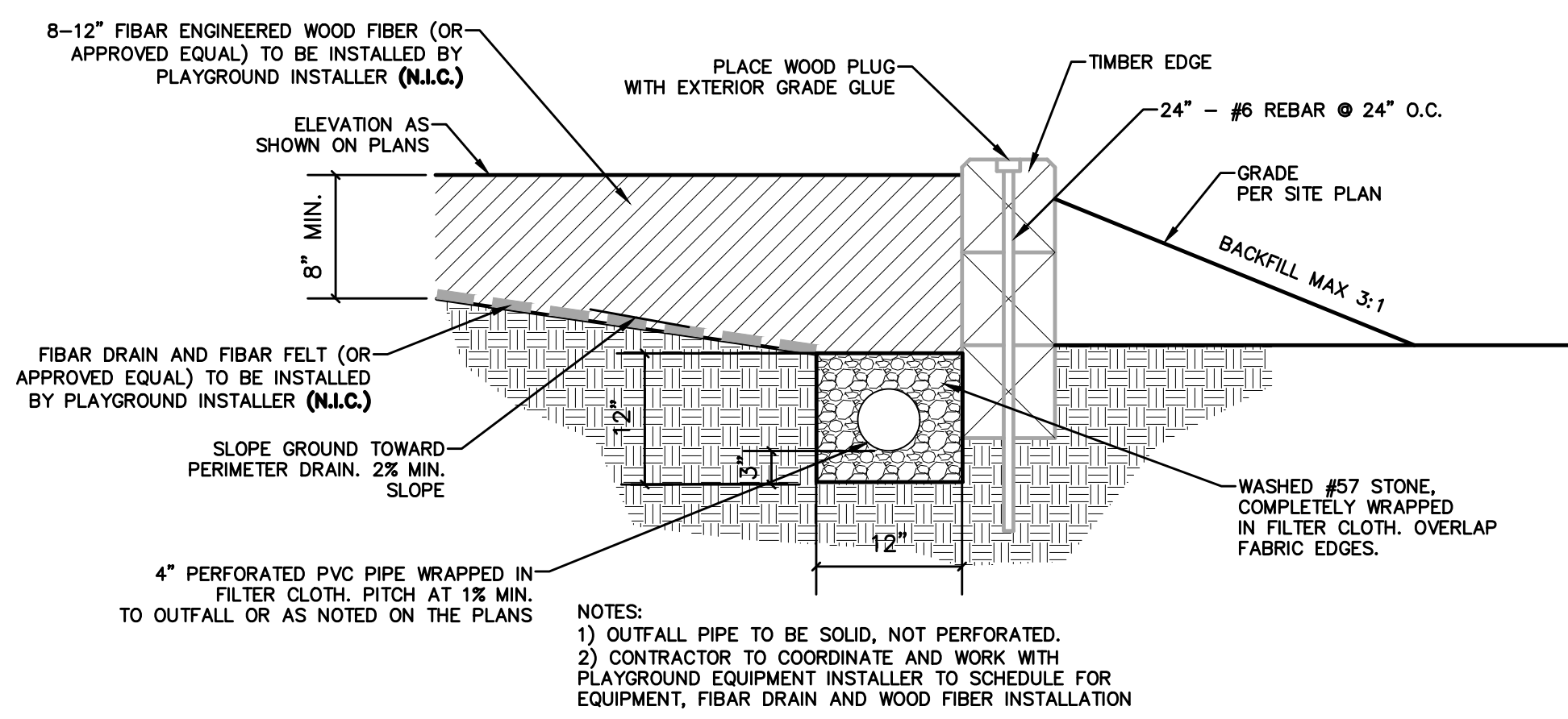
SITE PLAN

COUNTY FILE: S-24-0031
SHEET 4 OF 16

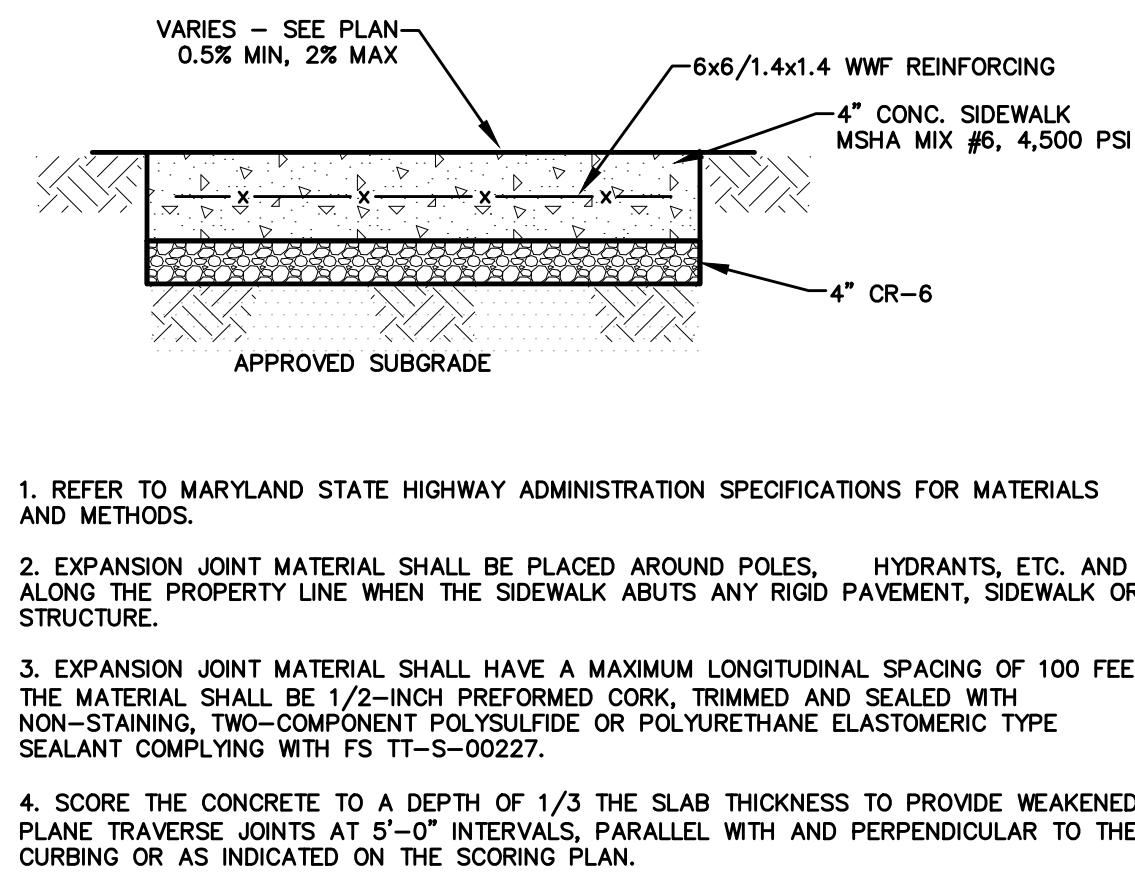
C-201

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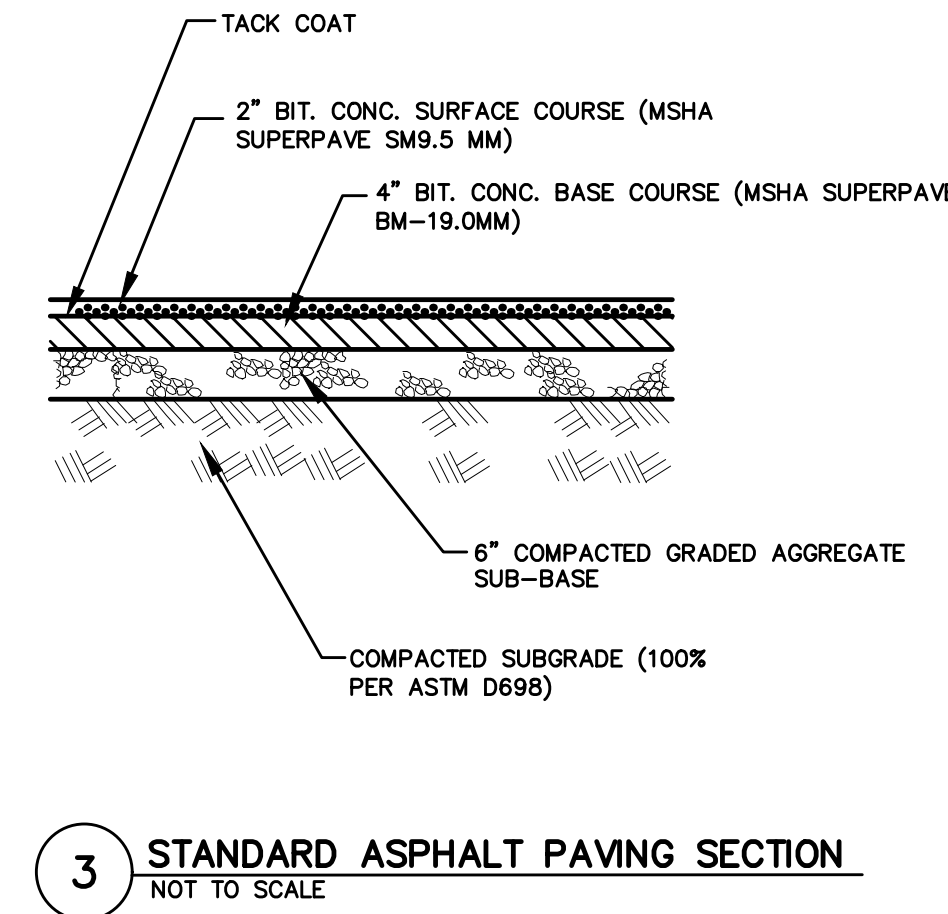




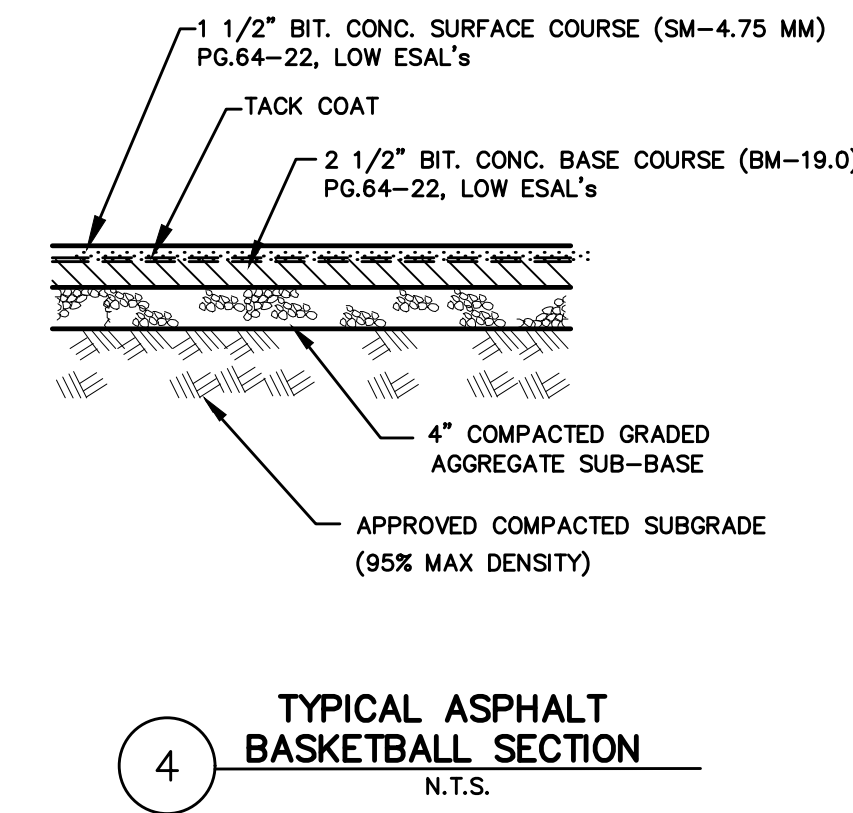
1 MULCH PLAY AREA
N.T.S.



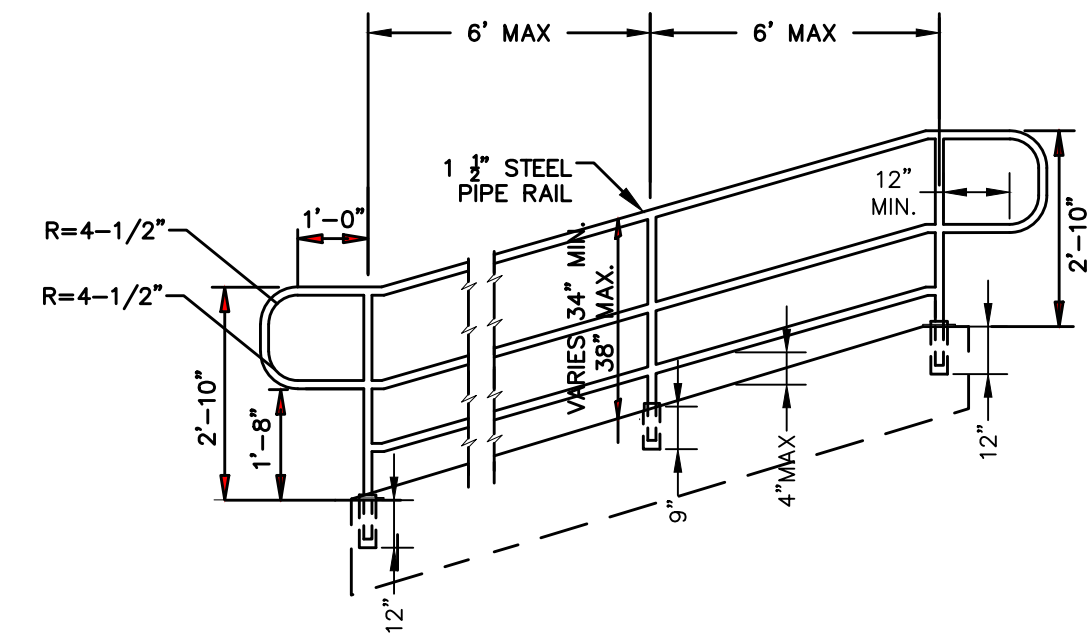
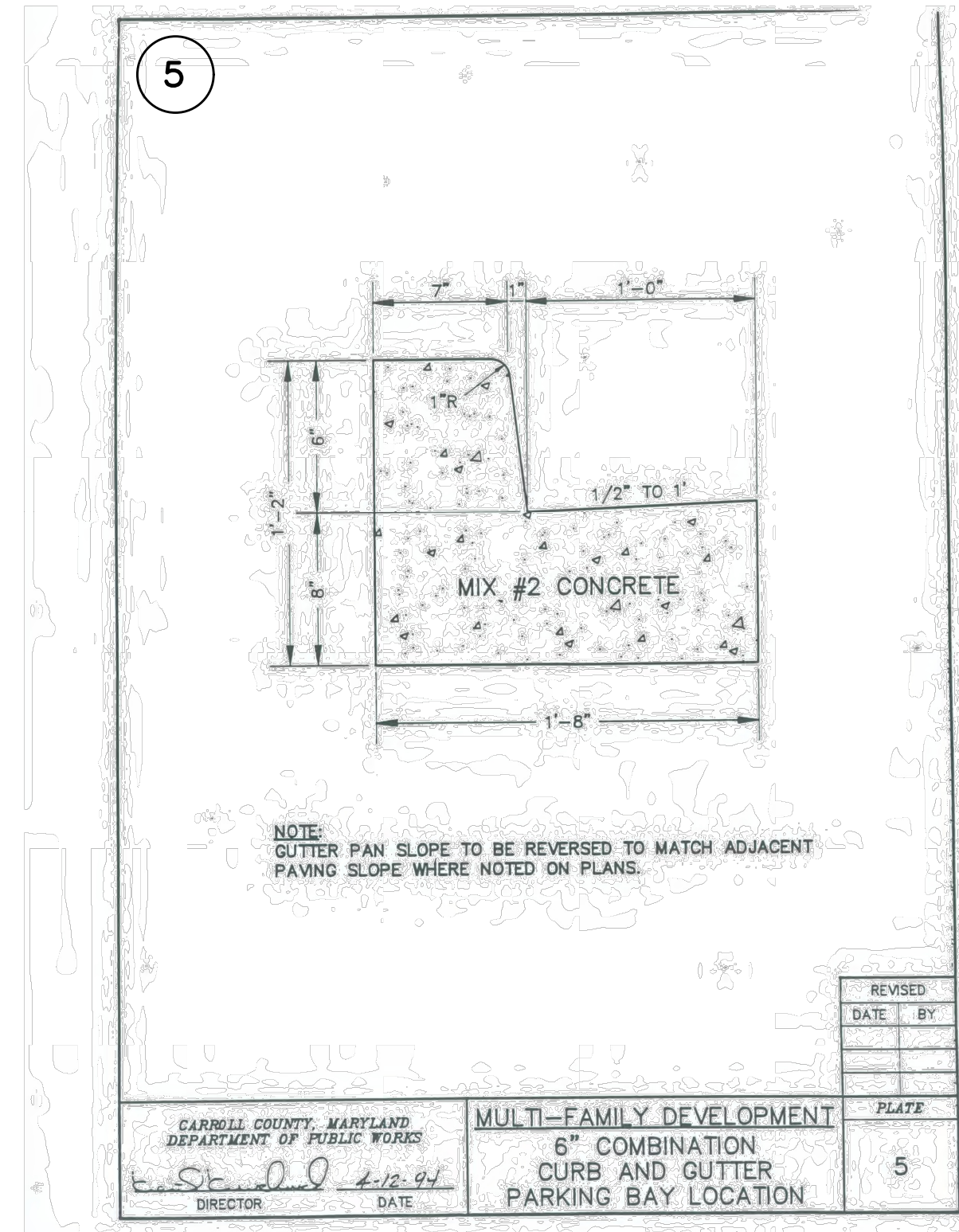
2 TYPICAL CONCRETE SIDEWALK SECTION
NOT TO SCALE



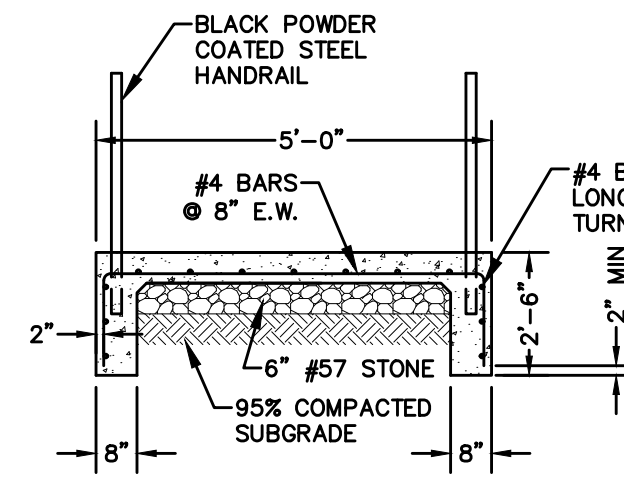
3 STANDARD ASPHALT PAVING SECTION
NOT TO SCALE



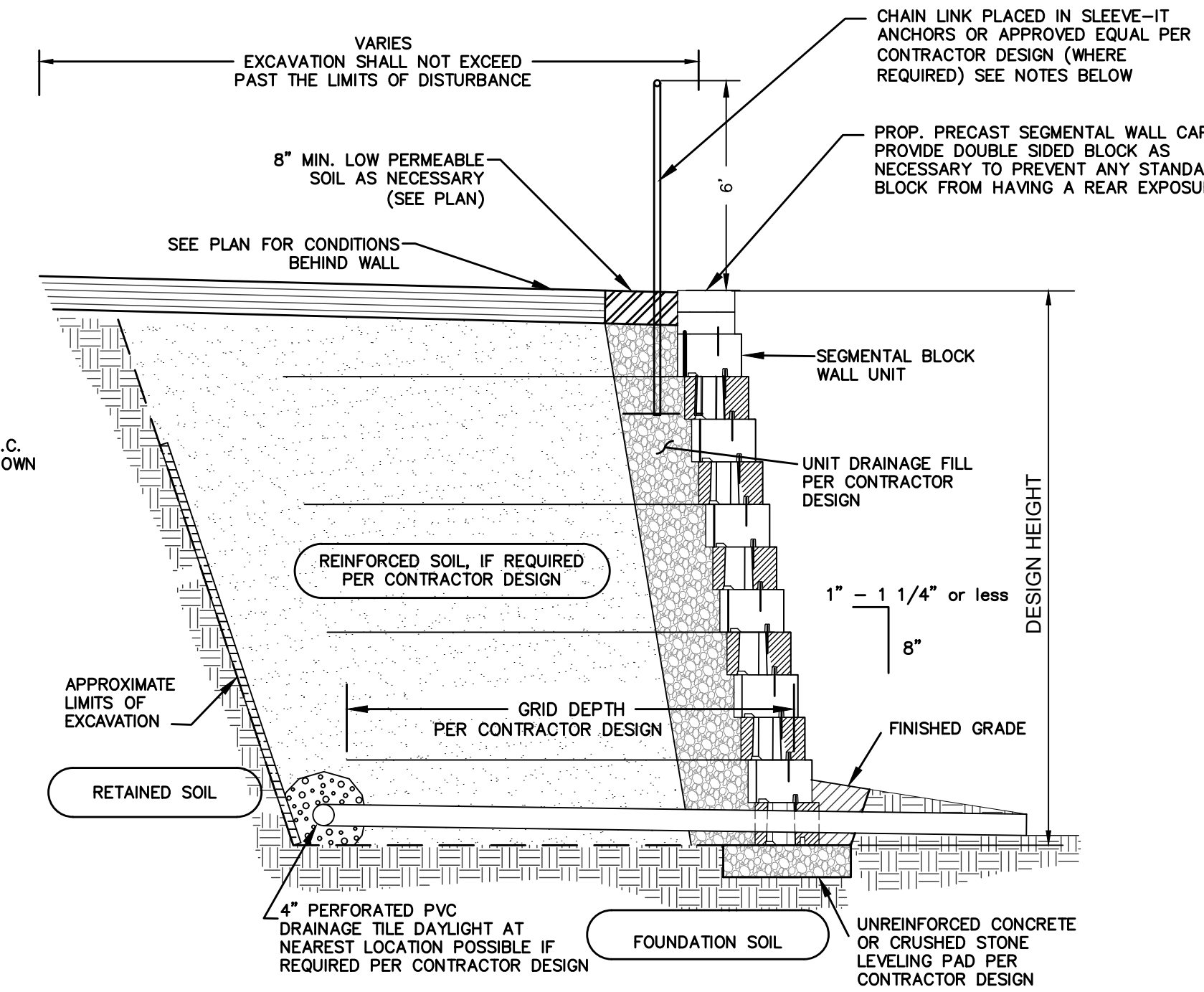
4 TYPICAL ASPHALT BASKETBALL SECTION
N.T.S.



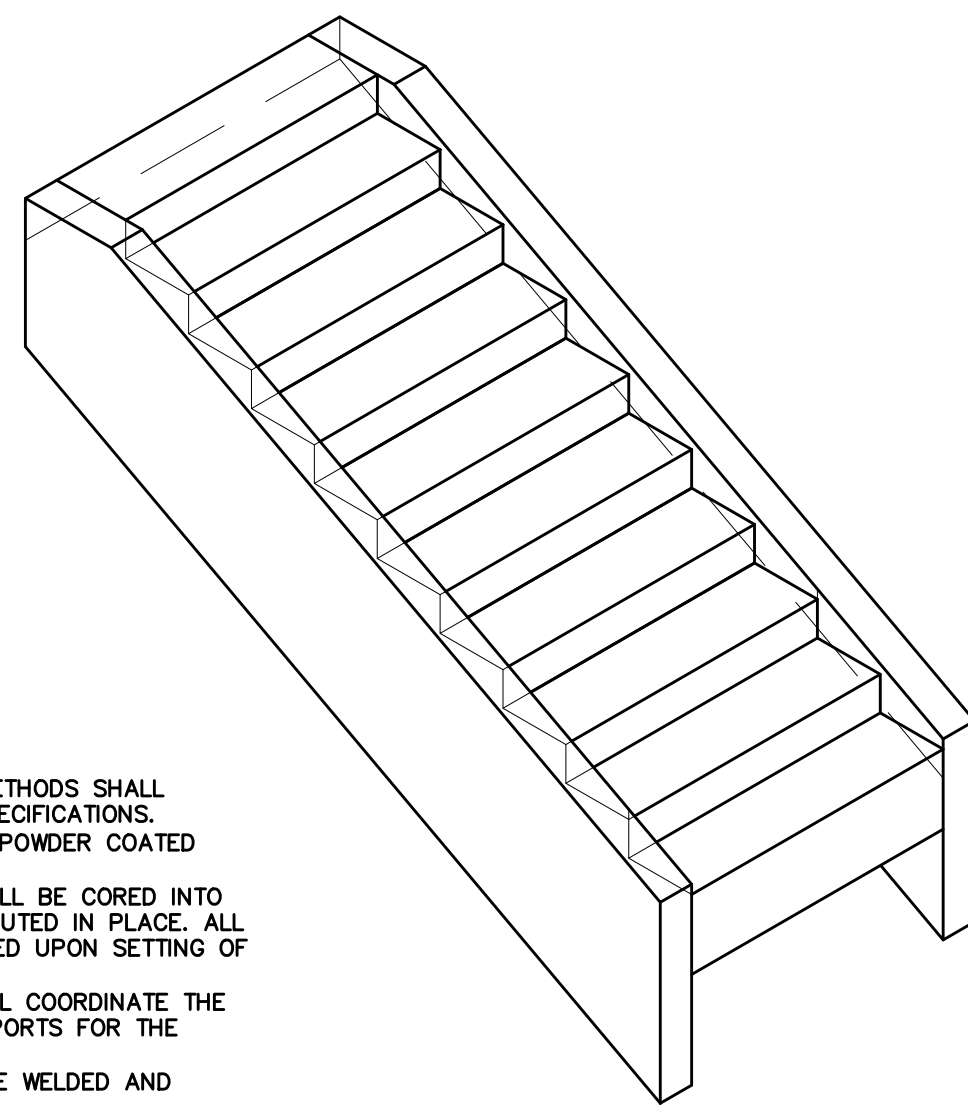
6 RAMP DETAIL
NOT TO SCALE



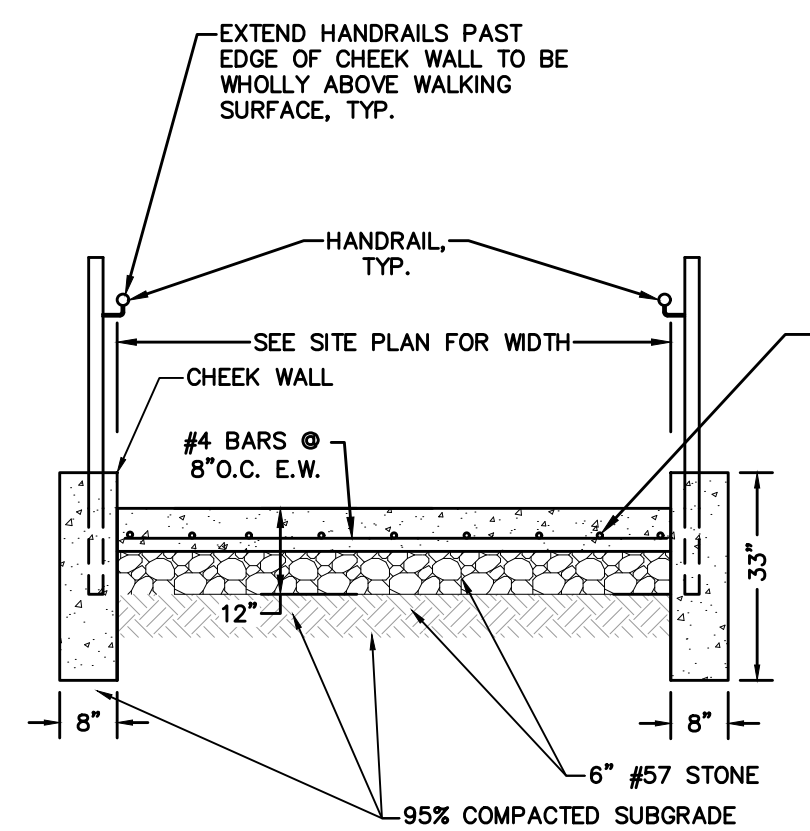
7 RAMP CROSS SECTION
NOT TO SCALE



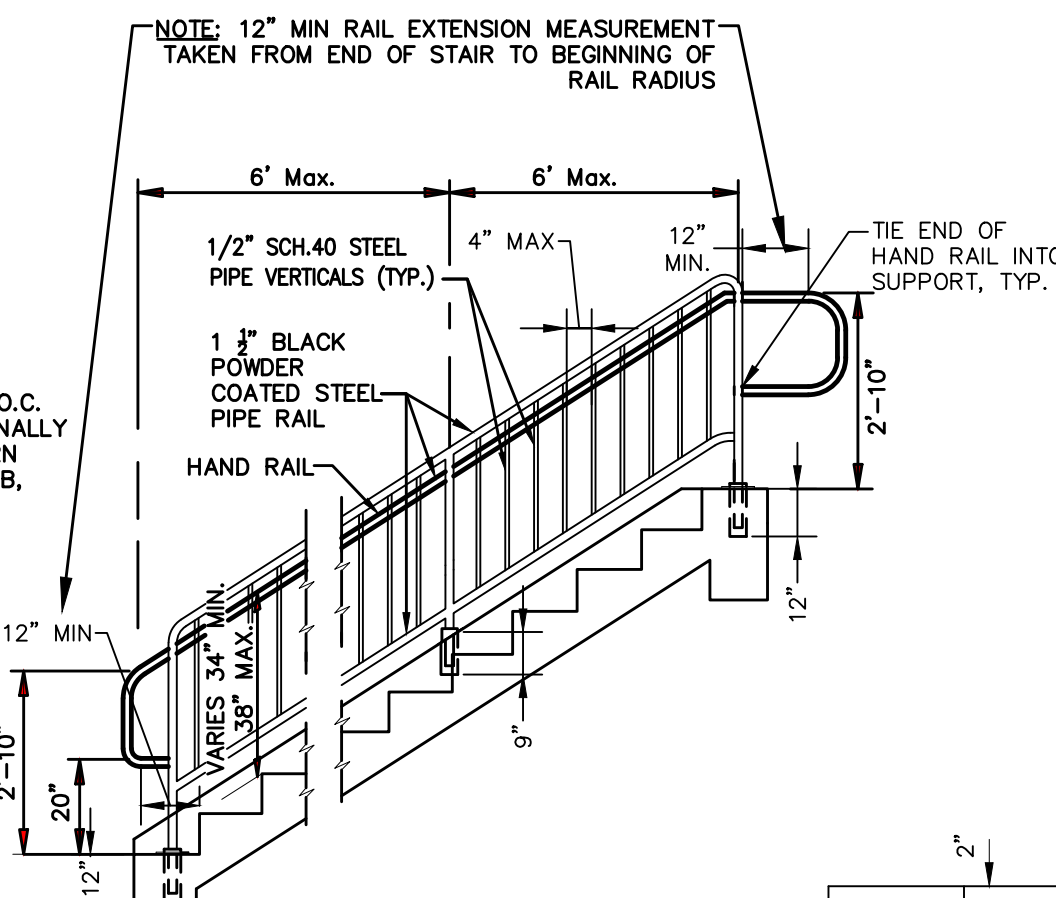
8 SEGMENTAL BLOCK RETAINING WALL DETAIL
NOT TO SCALE



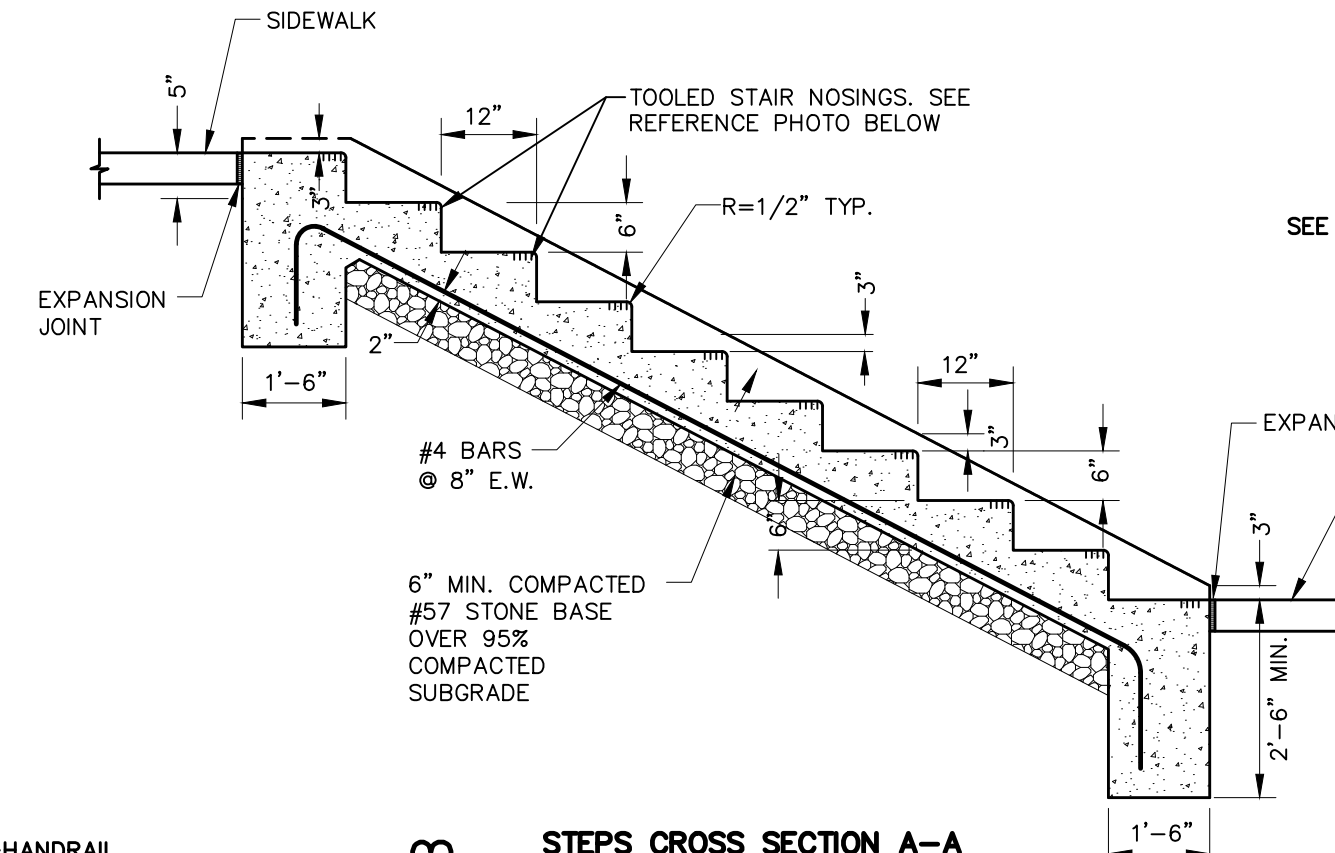
STEPS 3D VIEW
N.T.S.



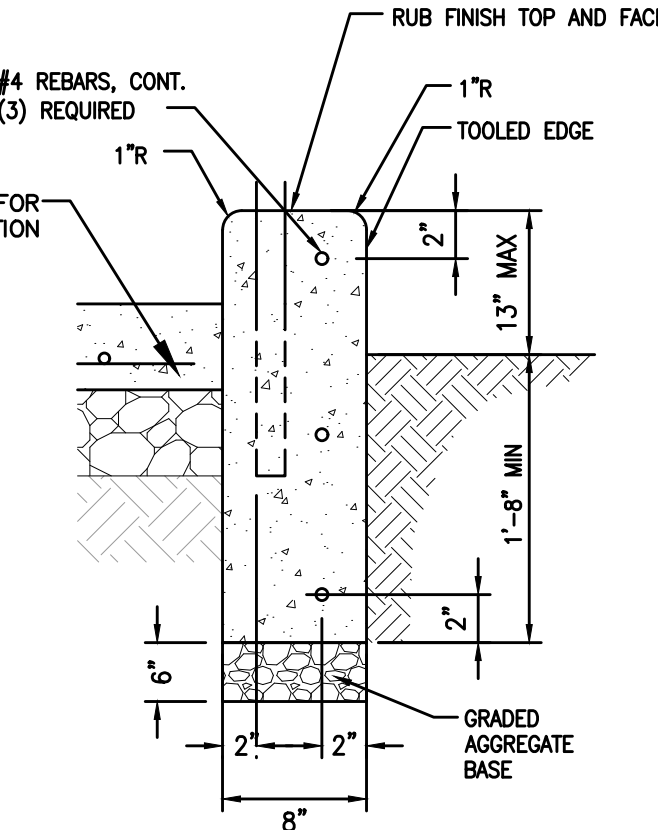
STEPS CROSS SECTION B-B
N.T.S.



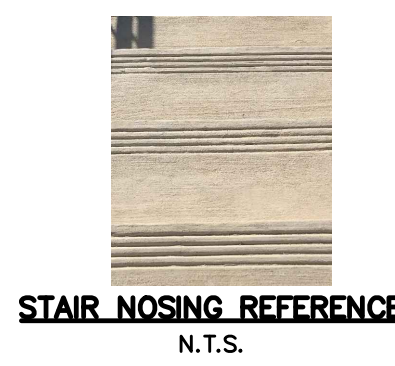
RAIL PROFILE
N.T.S.



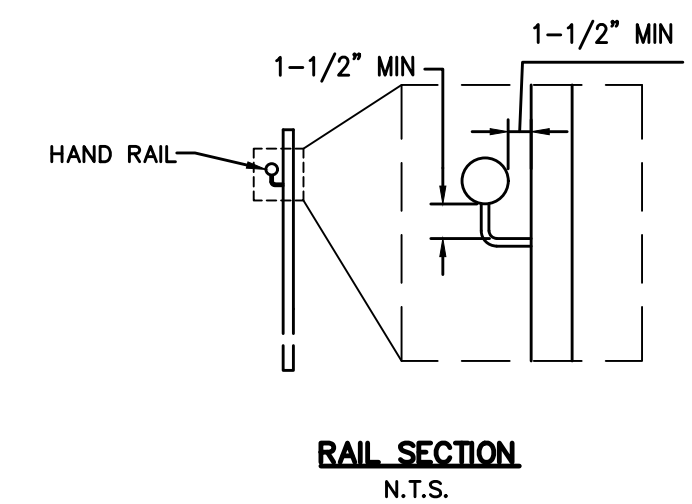
STEPS CROSS SECTION A-A
N.T.S.



STEP HEADER CURB
N.T.S.

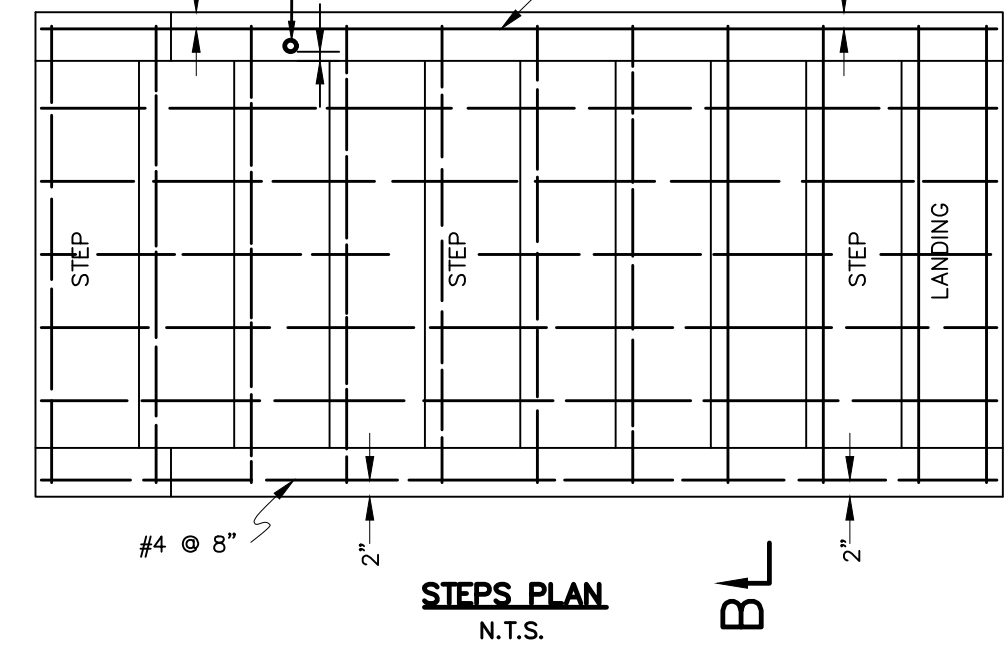


STAIR NOSING REFERENCE
N.T.S.



RAIL SECTION
N.T.S.

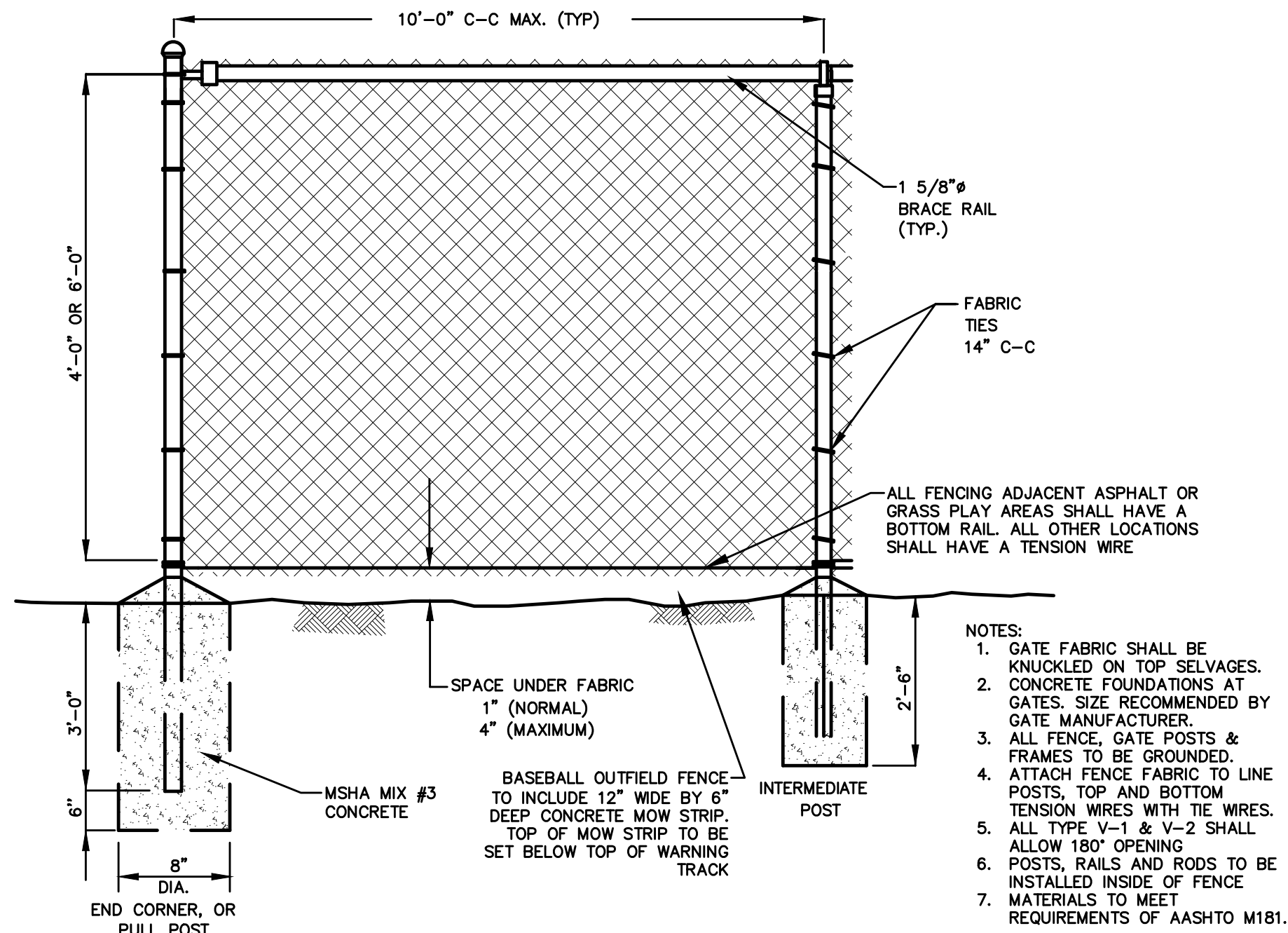
9 CONCRETE STAIR DETAIL
NOT TO SCALE



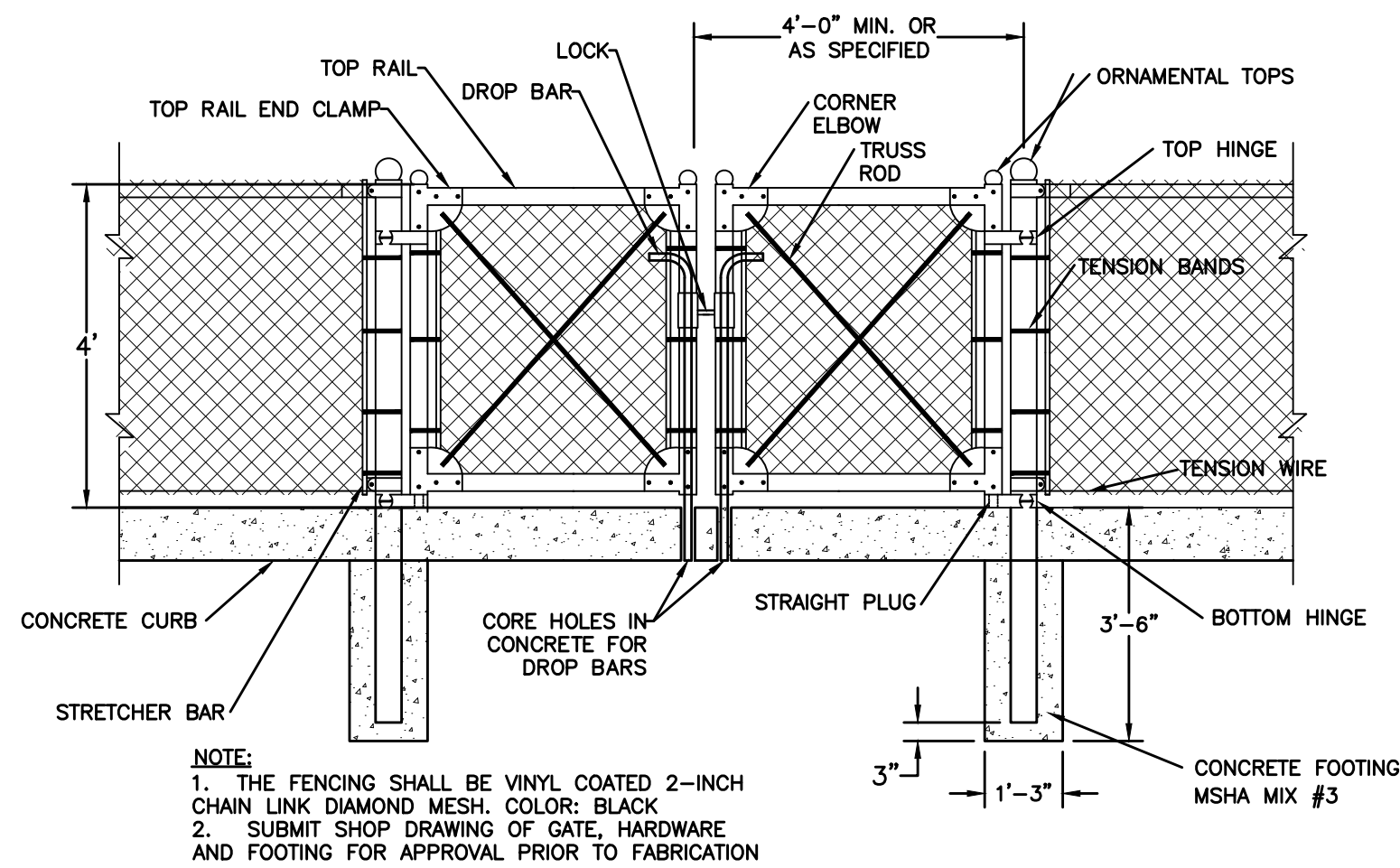
STEPS PLAN
N.T.S.

STEP NOTES:

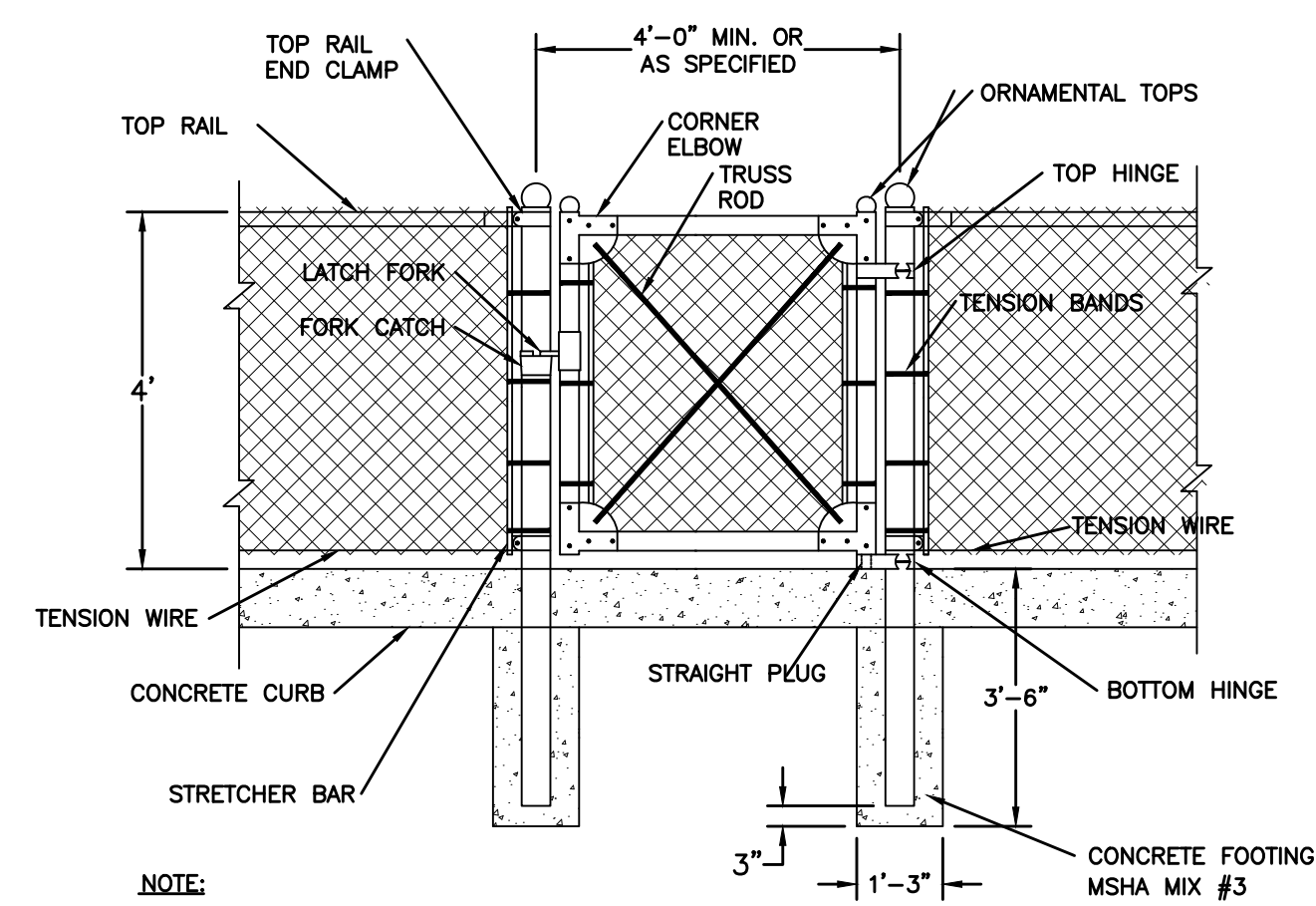
- 1) ALL MATERIALS AND METHODS SHALL COMPLY WITH MSHA SPECIFICATIONS.
- 2) ALL PIPE TO BE SHOP POWDER COATED BLACK.
- 3) RAILING SUPPORTS SHALL BE CORED INTO CHEEK WALLS AND GROUTED IN PLACE. ALL CORES SHALL BE SEALED UPON SETTING OF RAILING SUPPORTS.
- 4) THE CONTRACTOR SHALL COORDINATE THE LOCATION OF THE SUPPORTS FOR THE HANDRAIL.
- 5) ALL TUBE JOINTS TO BE WELDED AND GROUND SMOOTH.
- 6) RAILING SHALL BE LOCATED ALONG BOTH SIDES OF THE STEPS. CENTER RAIL SHALL BE ADDED ONLY IF CLEAR STEP WIDTH EXCEEDS 72".
- 7) CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PRIOR TO FABRICATION.
- 8) CONCRETE TO BE 4,500 PSI.
- 9) STAIR NOSINGS TO CONTINUE ACROSS ENTIRE WIDTH OF STEP. SEE REFERENCE IMAGE FOR LAYOUT DETAIL.



10 4'-6' HIGH CHAIN-LINK FENCE DETAIL
NOT TO SCALE

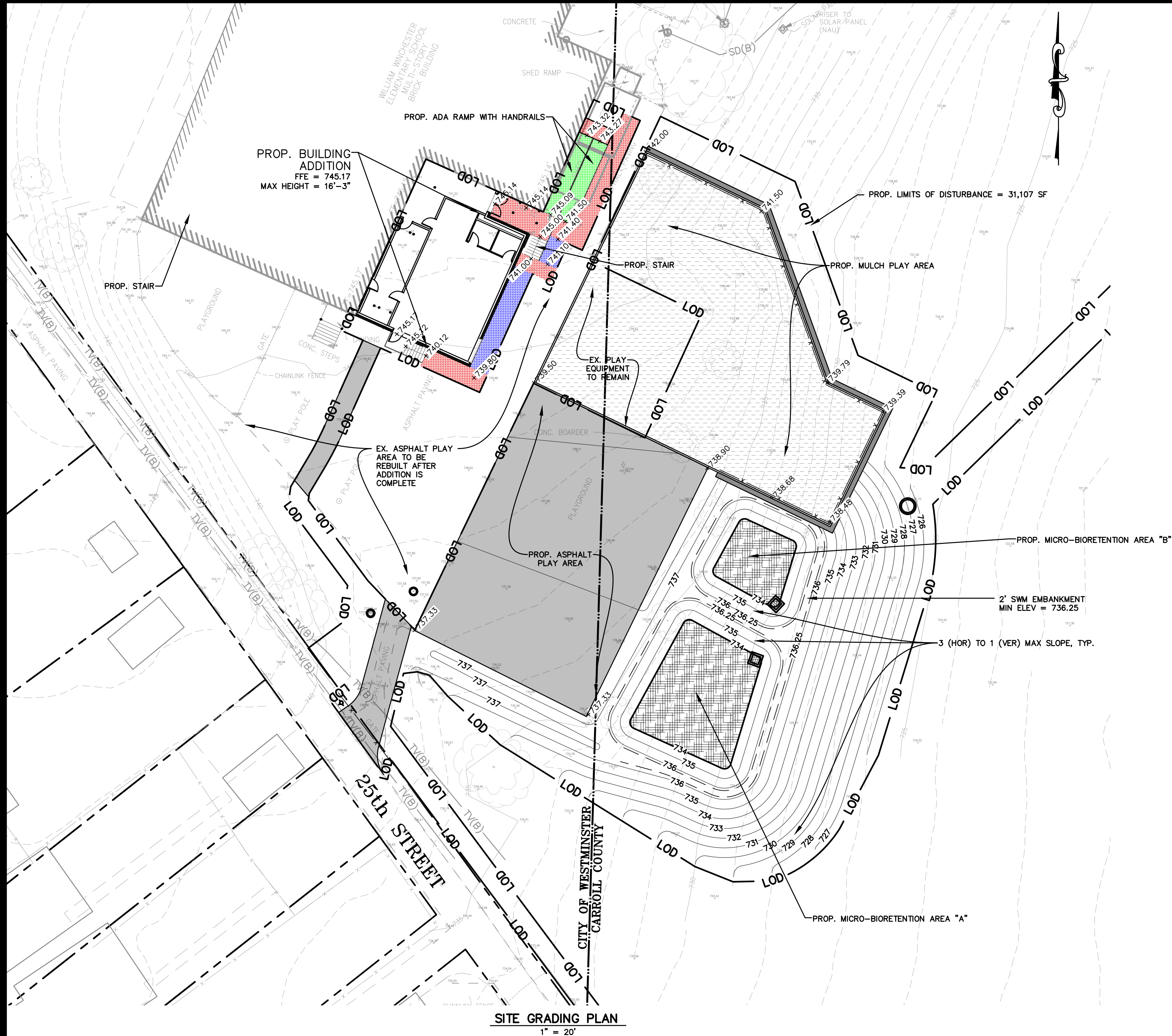


11 DOUBLE SWING GATE DETAIL
NOT TO SCALE

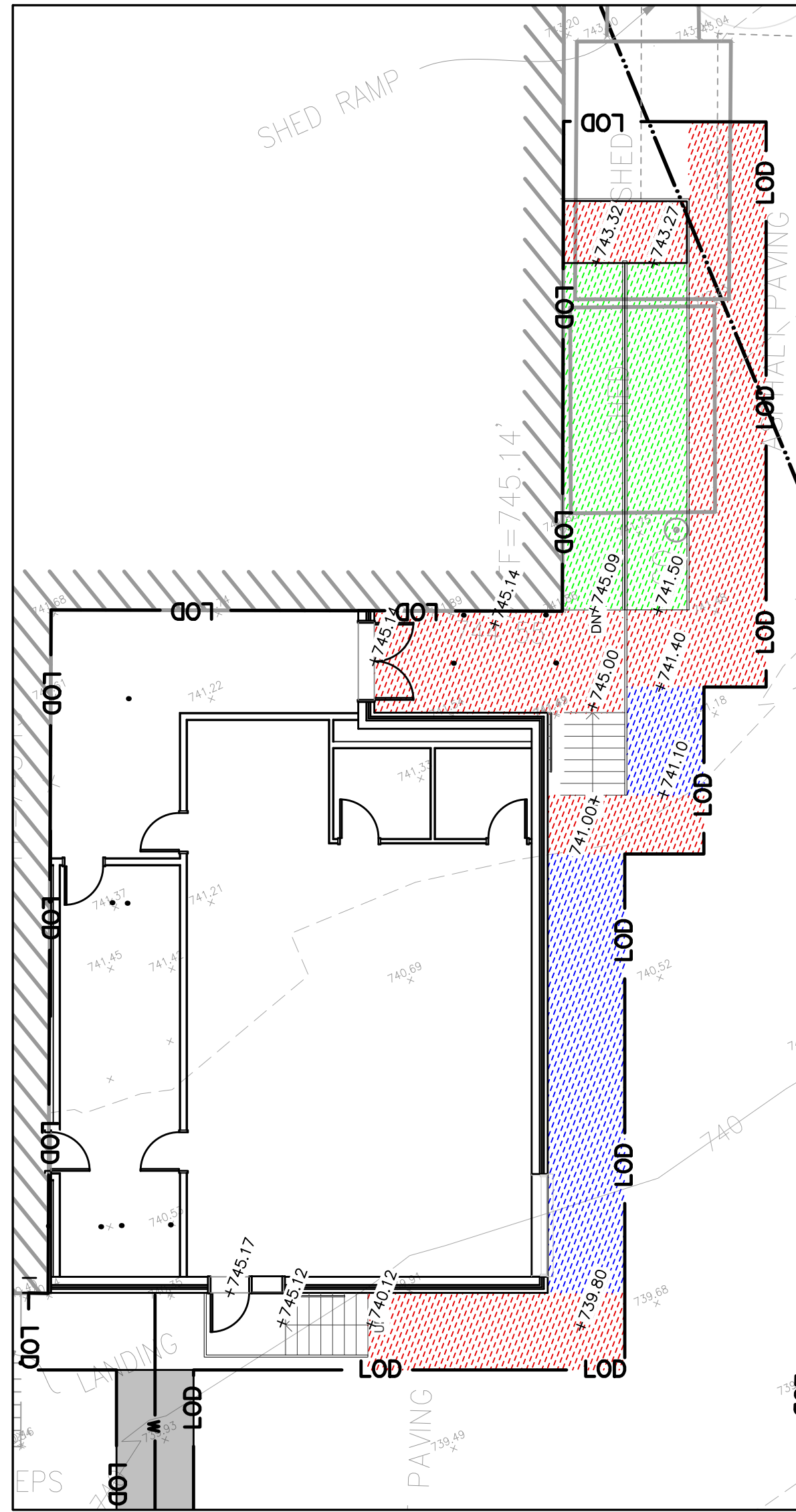


12 CHAIN LINK SWING GATE DETAIL
NOT TO SCALE

PROJECT NO.	841449
DATE:	FEBRUARY 24, 2025
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SITE GRADING PLAN
1" = 20'



ADA GRADING ENLARGEMENT
1" = 10'

ADA GRADING NOTE:
ALL ADA GRADING WILL BE STRICTLY ENFORCED. ANY VARIANCE OUTSIDE THE LIMITS NOTED BELOW FOR ALL ADA AREAS NOTED ON THIS SHEET WILL NOT BE ACCEPTED BY CCPS. EACH PANEL WILL BE MEASURED WITH A 2' SMART LEVEL PER DOJ REQUIREMENTS

ADA SIDEWALK: 5% MAX LONGITUDINAL SLOPE AND 2% MAX CROSS SLOPE

ADA LANDING: 2% MAX SLOPE IN ANY DIRECTION

ADA RAMP: 8.3% MAX LONGITUDINAL SLOPE AND 2% MAX CROSS SLOPE.

MINIMUM SLOPES:
CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE ACROSS SITE. ALL SITE GRADING SHALL PROVIDE A MINIMUM SLOPE IN AT LEAST ONE DIRECTION UNLESS OTHERWISE NOTED. BELOW ARE THE MINIMUM SLOPE REQUIREMENTS:

GRASS: 1.0%
ASPHALT: 0.7%
CONCRETE: 0.5%

PONDING OF WATER SHALL BE RESTRICTED OUTSIDE OF STORMWATER MANAGEMENT PRACTICES

COMPACTION NOTE:
GEOTECHNICAL ENGINEER SHALL CONFIRM PROPER COMPACTION IN ALL AREAS OF FILL TO PREVENT UNEVEN SETTLEMENT BETWEEN AREAS OF FILL AND AREAS OF CUT ACROSS SITE, TYP.

HANDRAIL NOTE:
ALL ADA RAMPS WITH TOTAL VERTICAL RISE GREATER THAN 6" REQUIRES THE INSTALLATION OF HANDRAILS ON BOTH SIDES OF RAMP. ANY RAMP WITH TOTAL VERTICAL RISE EQUAL TO OR LESS THAN 6" DOES NOT REQUIRE HANDRAILS.

ADA GRADING LEGEND

- ADA LANDING. 1.75% MAX DESIGN SLOPE IN ANY DIRECTION
- ADA SIDEWALK. 4.5% MAX DESIGN LONGITUDINAL SLOPE AND 1.5% MAX DESIGN CROSS SLOPE
- ADA RAMP. 8.0% MAX DESIGN LONGITUDINAL SLOPE AND 1.5% MAX DESIGN CROSS SLOPE



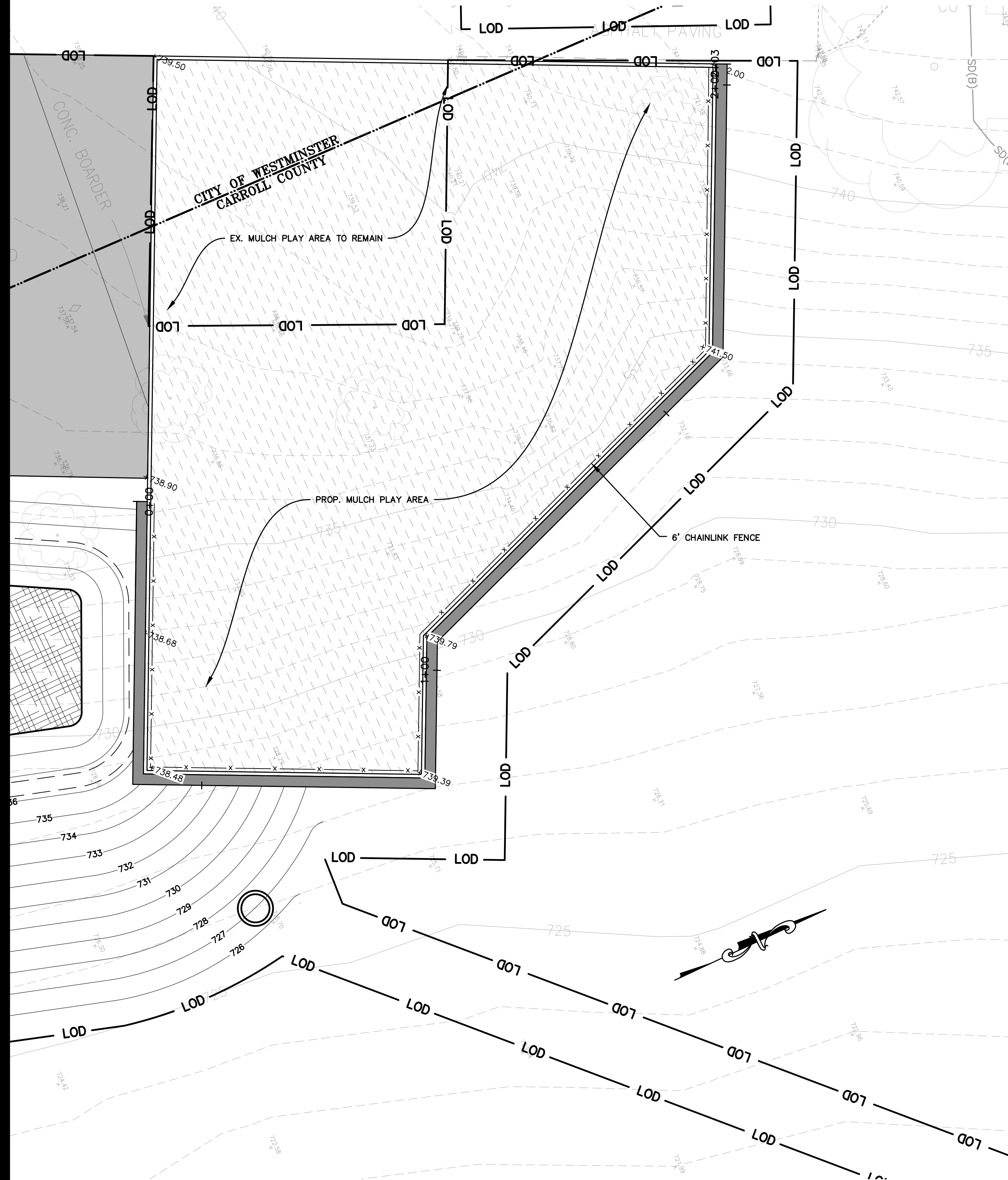
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DATE	DESCRIPTION
02/24/25	DD PRICING SET

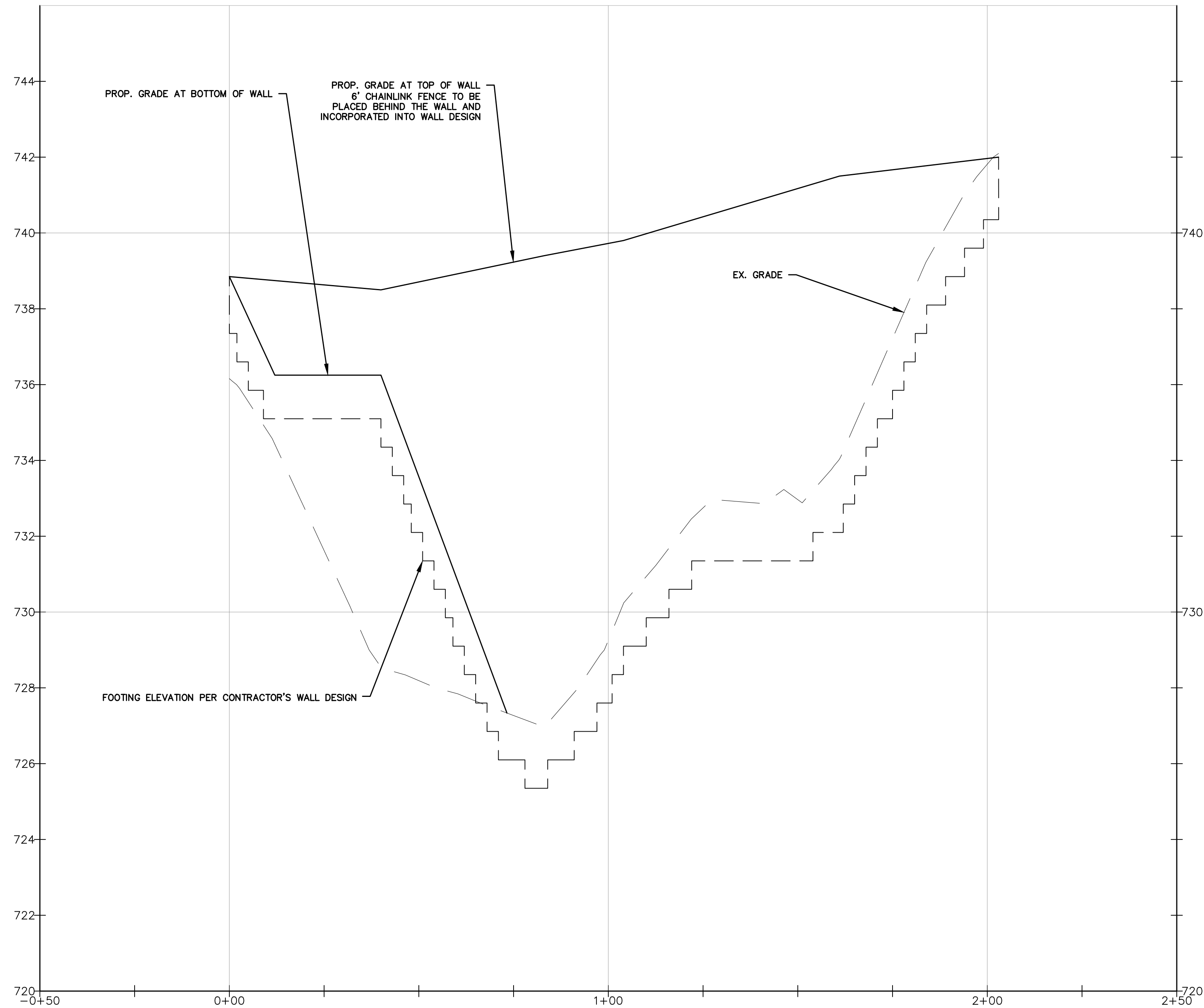
**RETAINING WALL
PLAN**

COUNTY FILE: S-24-0031
SHEET 8 OF 16

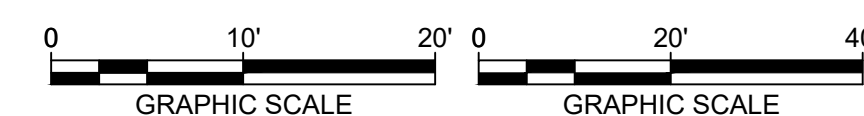
C-230



RETAINING WALL PLAN
1" = 10'



RETAINING WALL PROFILE
SCALE: 1" = 20' (HOR) 1" = 2' (VER)



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I CERTIFY THAT THESE DOCUMENTS WERE PREPARED
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LICENSED PROFESSIONAL ENGINEER, UNDER THE
LAWS OF THE STATE OF MARYLAND.

LICENSE NO. 31168
EXPIRATION DATE: 01/12/2027



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Property Area Summary for ESDv Computations									
Drainage Area	Property Area (sf)	Total Pre Development Impervious Area (sf)	% Impervious	New or Re Development	Rv	HSG	Target P _E (in)	Area (sf)	ESDv Reqd
1	228,369	67,298	29.5%	NEW	0.315	B	1.6	135,524	5696
						D	1.2	92,845	2927
TOTAL								8623	

Minimum ESDv Requirements per MDE Chapter 5											
Drainage Area	LOD Area (sf)	New Impervious Area (sf)	Total Post Development Impervious Area (sf)	% Impervious	New or Re Development	Rv	HSG	Area (sf)	Target P _c (in)	ESDv Reqd	PE Reqd (in)
1	31,107	5,110	15,831	50.9%	NEW	0.508	B	20,925	1.8	1,595	2,370
							D	10,182	1.8	776	

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CARROLL COUNTY PUBLIC SCHOOLS
125 N. COURT ST.
WESTMINSTER, MD 21157
C/O BILL CAINE
WECAINE@CARROLLK12.ORG
410-386-1817

**WILLIAM WINCHESTER ELEMENTARY
SCHOOL - PRE-K ADDITION**

70 MONROE STREET,
WESTMINSTER, MD 21157
ELECTION DISTRICT 07
EXISTING/PROPOSED USE: ELEMENTARY SCHOOL

PROJECT NO.	841449
DATE:	FEBRUARY 24, 2025
REVISIONS	
DATE	DESCRIPTION
02/24/25	DD PRICING SET

**SWM EXISTNG
CONDITIONS PLAN -
WHOLE PROPERTY**

COUNTY FILE: S-24-0031
SHEET 9 OF 16

C-350

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EXPIRATION DATE: 01/12/2027





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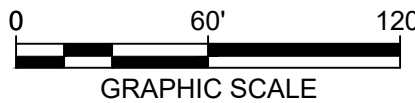
70 MONROE STREET,
WESTMINSTER, MD 21157
ELECTION DISTRICT 07
EXISTING/PROPOSED USE: ELEMENTARY SCHOOL

PROJECT NO.	841449
DATE:	FEBRUARY 24, 2025
REVISIONS	
DATE	DESCRIPTION
02/24/25	DD PRICING SET

**SWM EXISTING
CONDIONS - STUDY
POINT**

COUNTY FILE: S-24-0031
SHEET 10 OF 16

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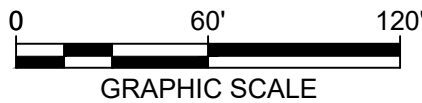


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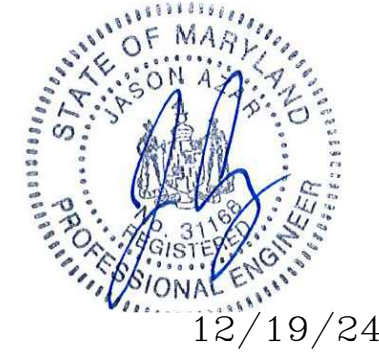


Pre-Development Drainage Area Summary					
Number	Point	Drainage Area (ac)	Impervious Area (ac)	Q2	Q10
1	CARROL ST	8.90	3.492	14.59	30.83
Post-Development Drainage Area Summary					
Number	Point	Drainage Area (ac)	Impervious Area (ac)	Q2 with RCN	Q10 with RCN
1	CARROL ST	8.90	3.630	14.03	30.45



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ELECTION DISTRICT 07
EXISTING/PROPOSED USE: ELEMENTARY SCHOOL

PROJECT NO. 841449	DATE: FEBRUARY 24, 2025
REVISIONS	
DATE	DESCRIPTION
02/24/25	DD PRICING SET

**SWM PROPOSED
CONDITIONS - STUDY
POINT**

COUNTY FILE: S-24-0031
SHEET 11 OF 16

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12/19/20



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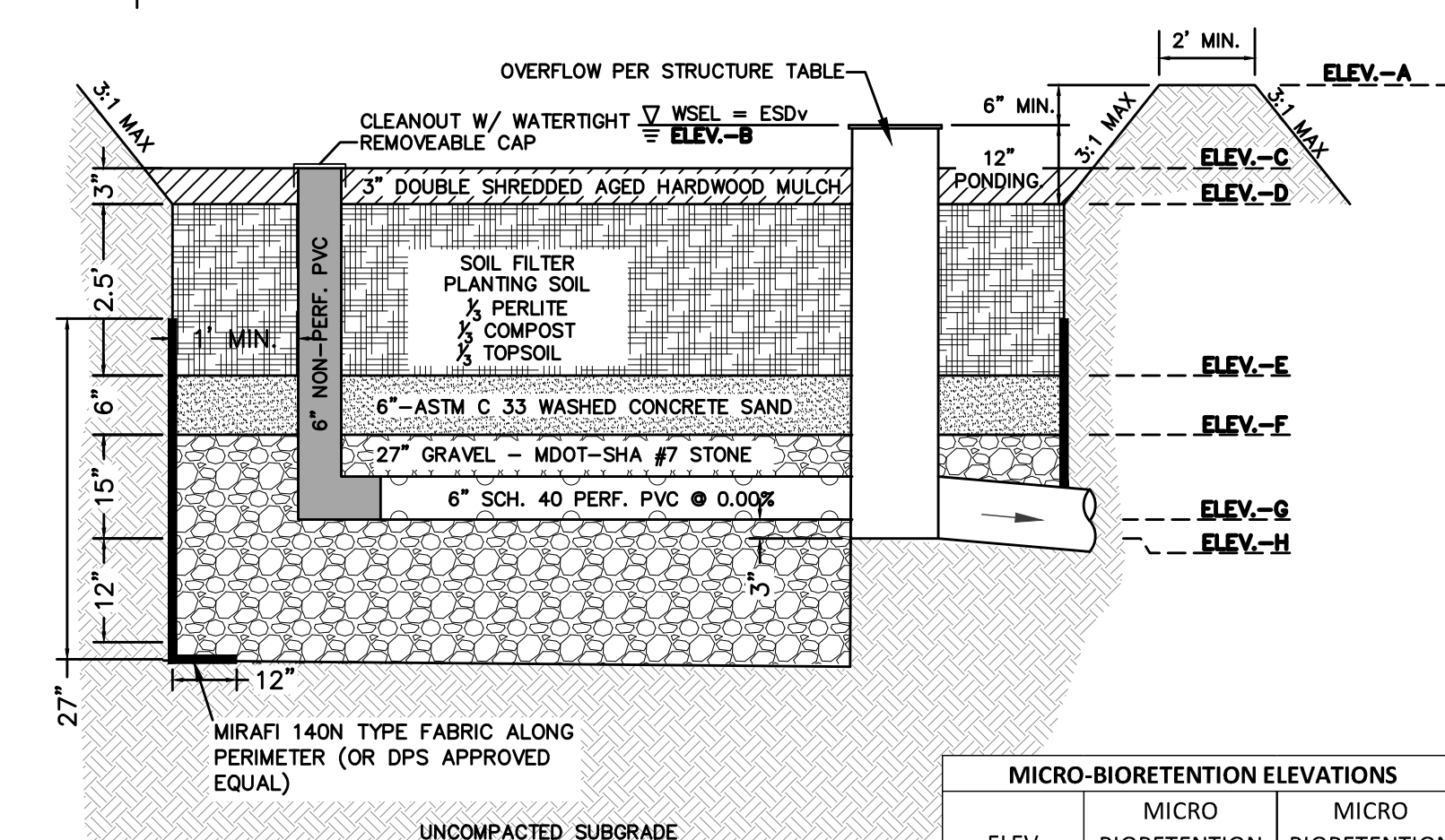
70 MONROE STREET,
WESTMINSTER, MD 21157
ELECTION DISTRICT 07
EXISTING/PROPOSED USE

PROJECT NO: 641449	
DATE: FEBRUARY 24, 2025	
REVISIONS	
DATE	DESCRIPTION
02/24/25	DD PRICING SET

STORMWATER MANAGEMENT PLAN

COUNTY FILE: S-24-0031
SHEET 12 OF 16

C-355



NOTES:

1. UNDERDRAIN PIPE SHALL BE PERFORATED WITH 3/8" DIA. PERFORATIONS, 4" O.C., EVERY 60 DEGREES AROUND THE PIPE.
2. PERFORATED PIPE MUST BE AT LEAST 12" INSIDE THE FILTER MEDIA.
3. FILTER FABRIC MUST NOT BE WRAPPED AROUND THE UNDERDRAIN PIPE. FILTER FABRIC SHALL NOT BE PLACED AT THE BOTTOM OF THE FACILITY.
4. SEE THIS SHEET FOR SAND SPECIFICATIONS.
5. ALL METHODS AND MATERIALS TO COMPLY WITH THE LATEST MONTGOMERY COUNTY DPS MICRO-BIORETENTION DESIGN SPECIFICATIONS.
6. DO NOT PLACE GEOTEXTILE ALONG BOTTOM.

MICRO-BIORETENTION ELEVATIONS		
ELEV	MICRO BIORETENTION AREA A	MICRO BIORETENTION AREA B
A	736.00	336.00
B	735.00	735.00
C	734.25	734.25
D	734.00	734.00
E	731.50	731.50
F	731.00	731.00
G	730.00	730.00
H	729.75	729.75

TYPICAL MICRO-BIORETENTION SECTION

NOT TO SCALE

SWM SUMMARY TABLE								
Measure Number	Type of Measure	DA to Measure	Impervious Area to Measure	% Impervious	Rv for ESD Calculations	Min ESDv (cf)	Max ESDv (cf)	Credit Volume (cf)
ESD								
A	Micro-bio	19,578	13,732	70%	0.681	1,111	2,779	1,788
B	Micro-bio	10,023	8,454	84%	0.809	676	1,690	763
Total		29,601	22,186					2,548
Structural								
Total		0	0					0
Does not Drain to a SWM Measure								
QN Waiver acres and % Impervious								0
QL Waiver acres and % Impervious								0
Project Total		29,601	22,186	70%	0.725			2,548
ESDv Required			2,370					
ESDv Provided			2,548					
Structural Required			0					
Structural Provided			0					

SWM Concept Summary	
SM#	
Type of Concept	SWM Concept/Site Development
Planning Process:	Planning Board
Property Address	70 Monroe Street Westminster, MD 21157
Legal Description	Map 39 Grid 19
Property Size	5.243 ac
Total Concept Area	0.714 ac
Zoning	Conservation
Watershed(s)	Liberty Reservoir
Special Protection Area	N/A
100 Yr Floodplain	N/A
Target P_2/Prop P_2	1.80 / 1.93
Target/Proposed ESD_y	2,370 / 2,547
ESD Measures	2 Micro-bioretenion Areas
Structural Storage	
Required/Provided	N/A
Structural Measures	N/A
Requested to be Waived	N/A
Provided ESD_y +	
Structural Storage	
Provided + Requested to be Waived	2,547
Other Information	N/A

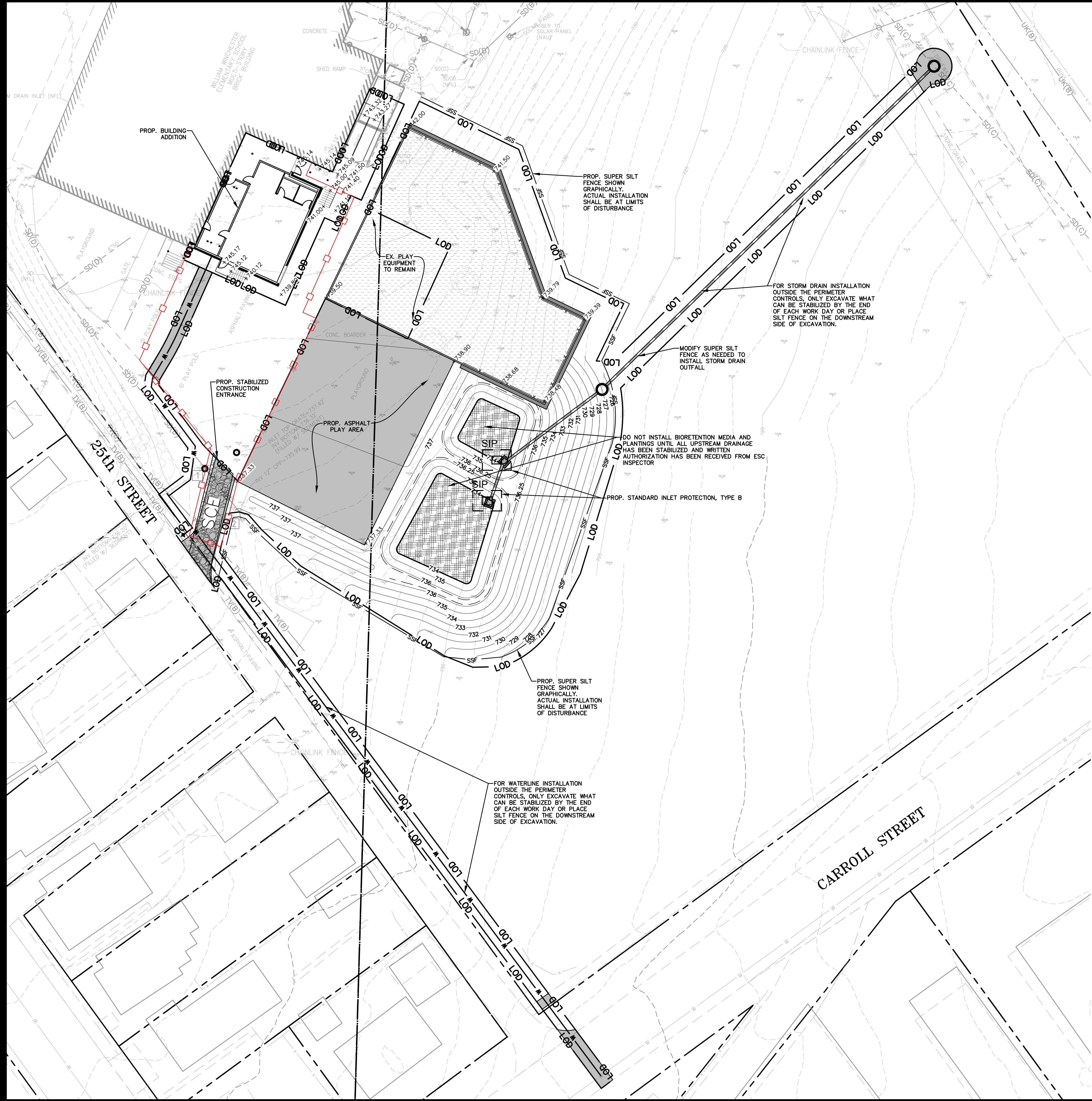
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EXPIRATION DATE: 01/13/2027

0 20' 40'

GRAPHIC SCALE



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PROJECT NO.	841449
DATE:	FEBRUARY 24, 2025
REVISIONS	
DATE	DESCRIPTION
02/24/25	DD PRICING SET

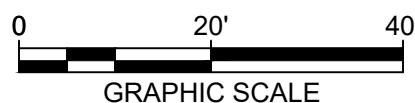
**EROSION AND
SEDIMENT CONTROL
PLAN**

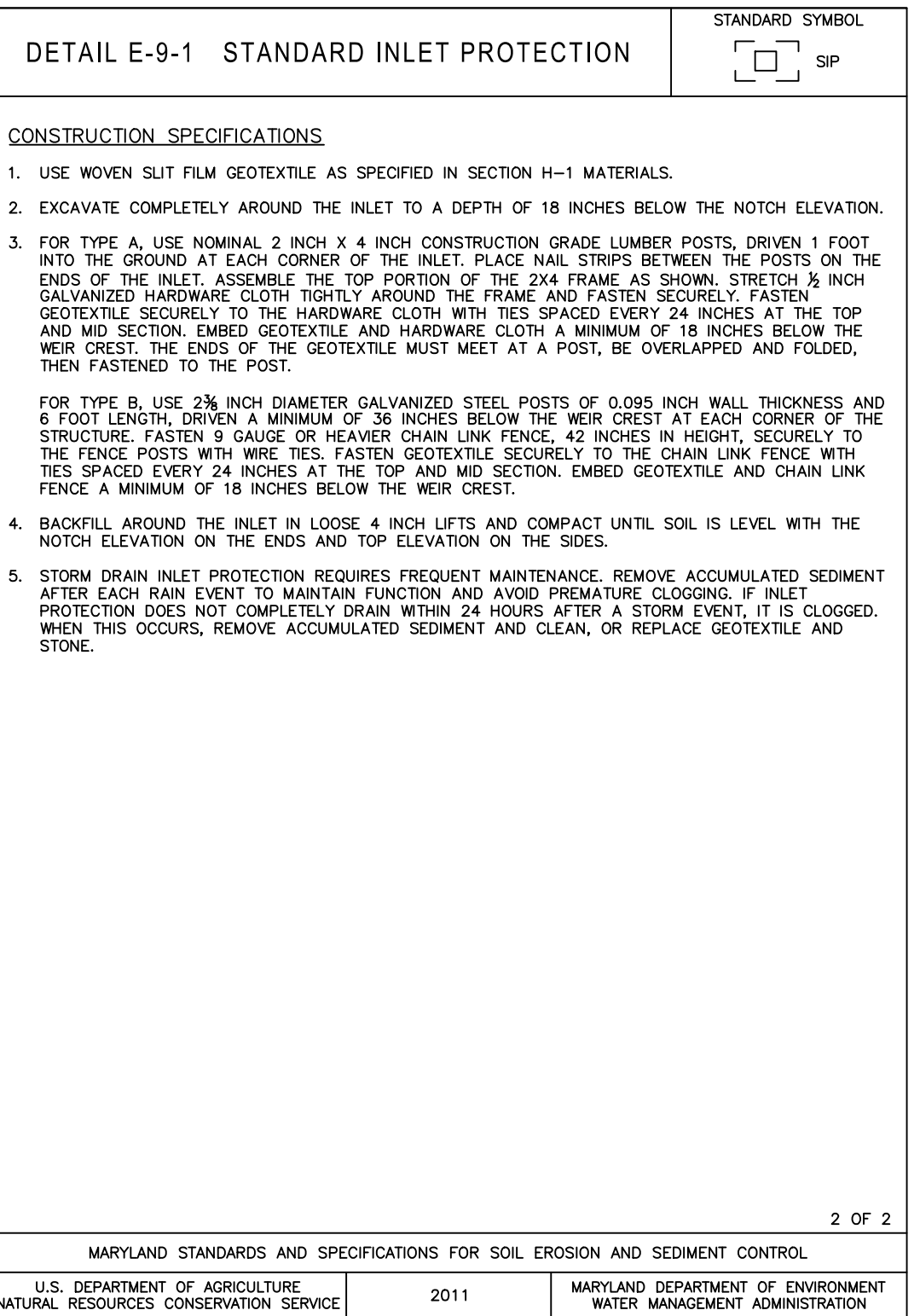
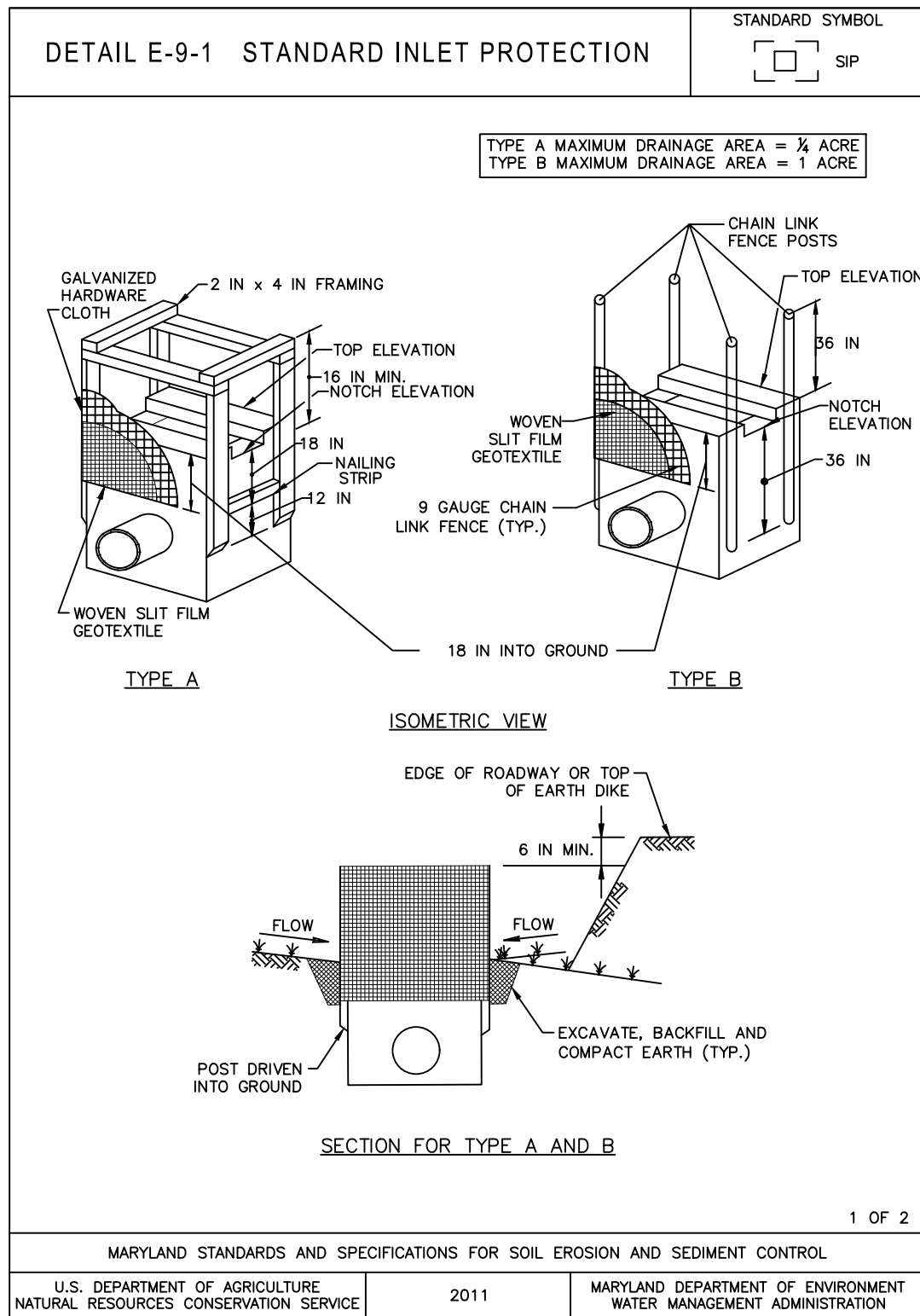
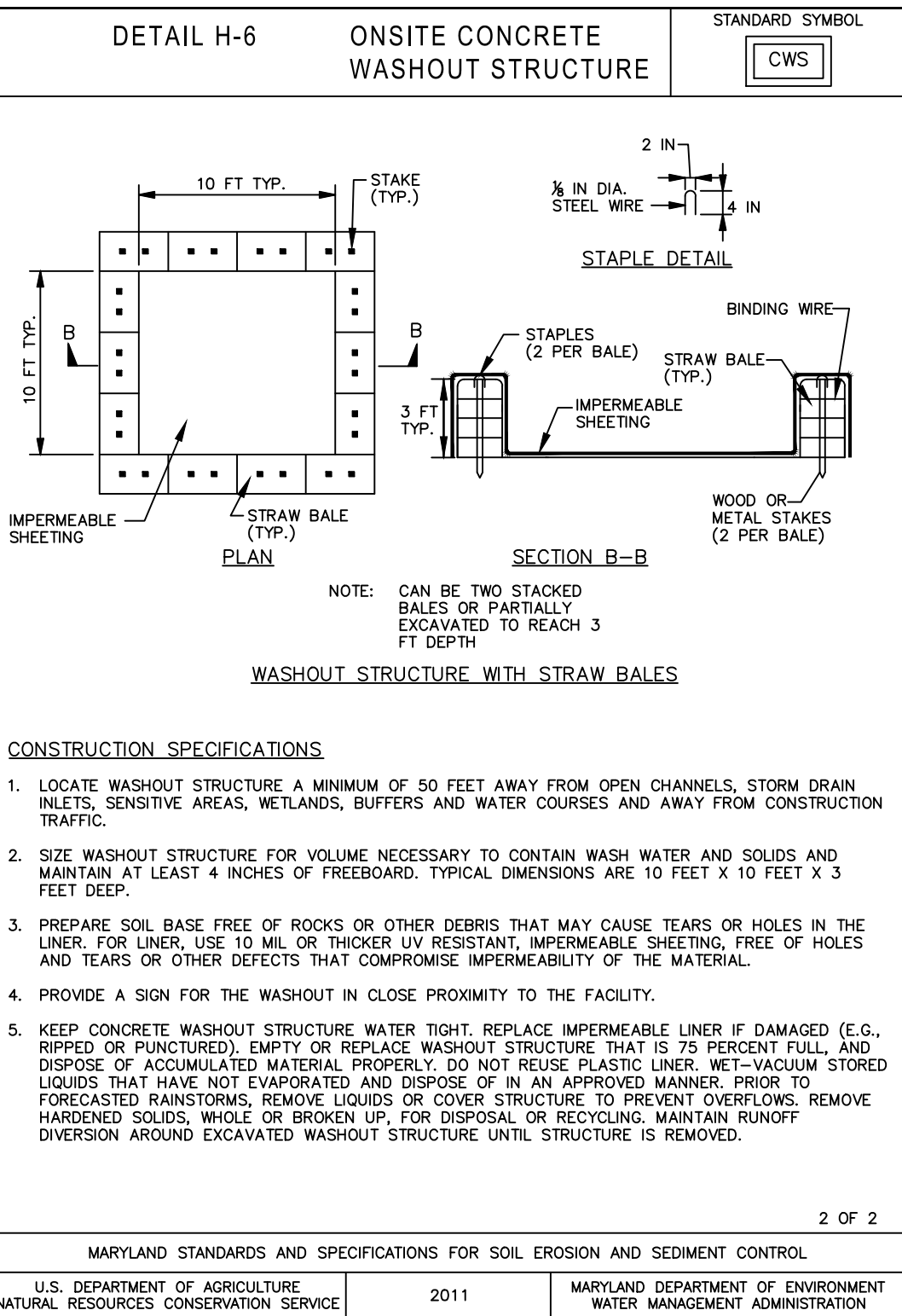
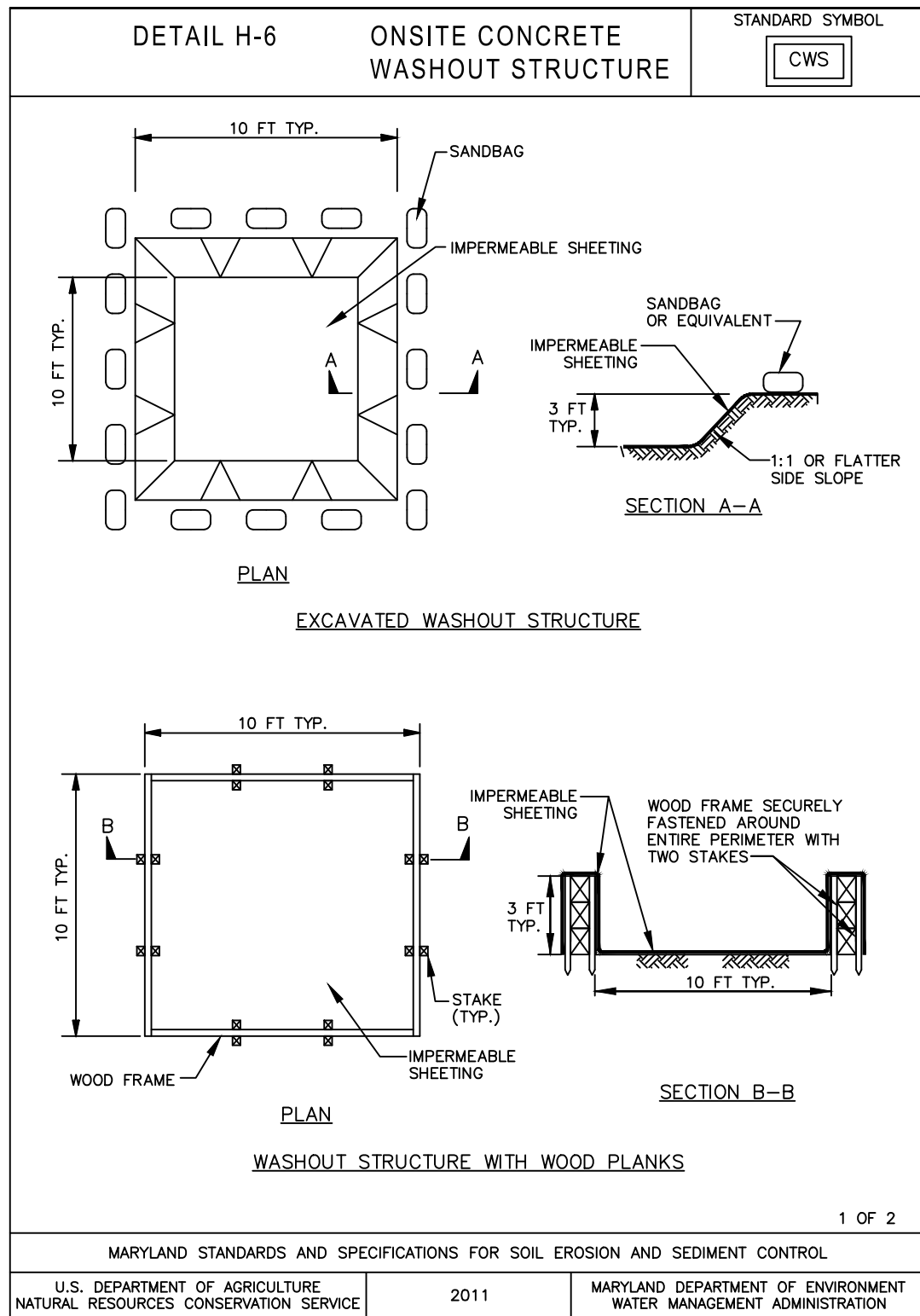
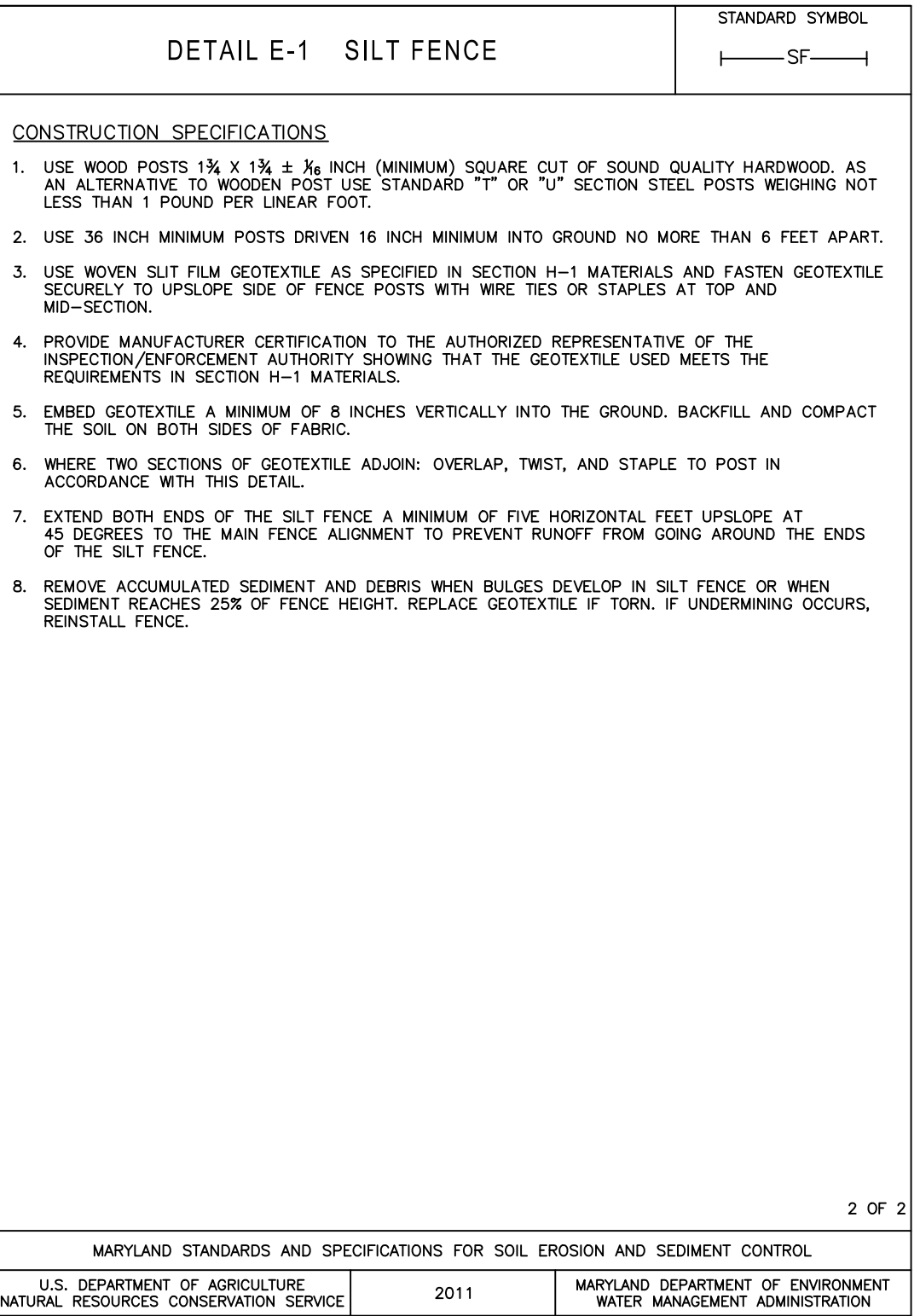
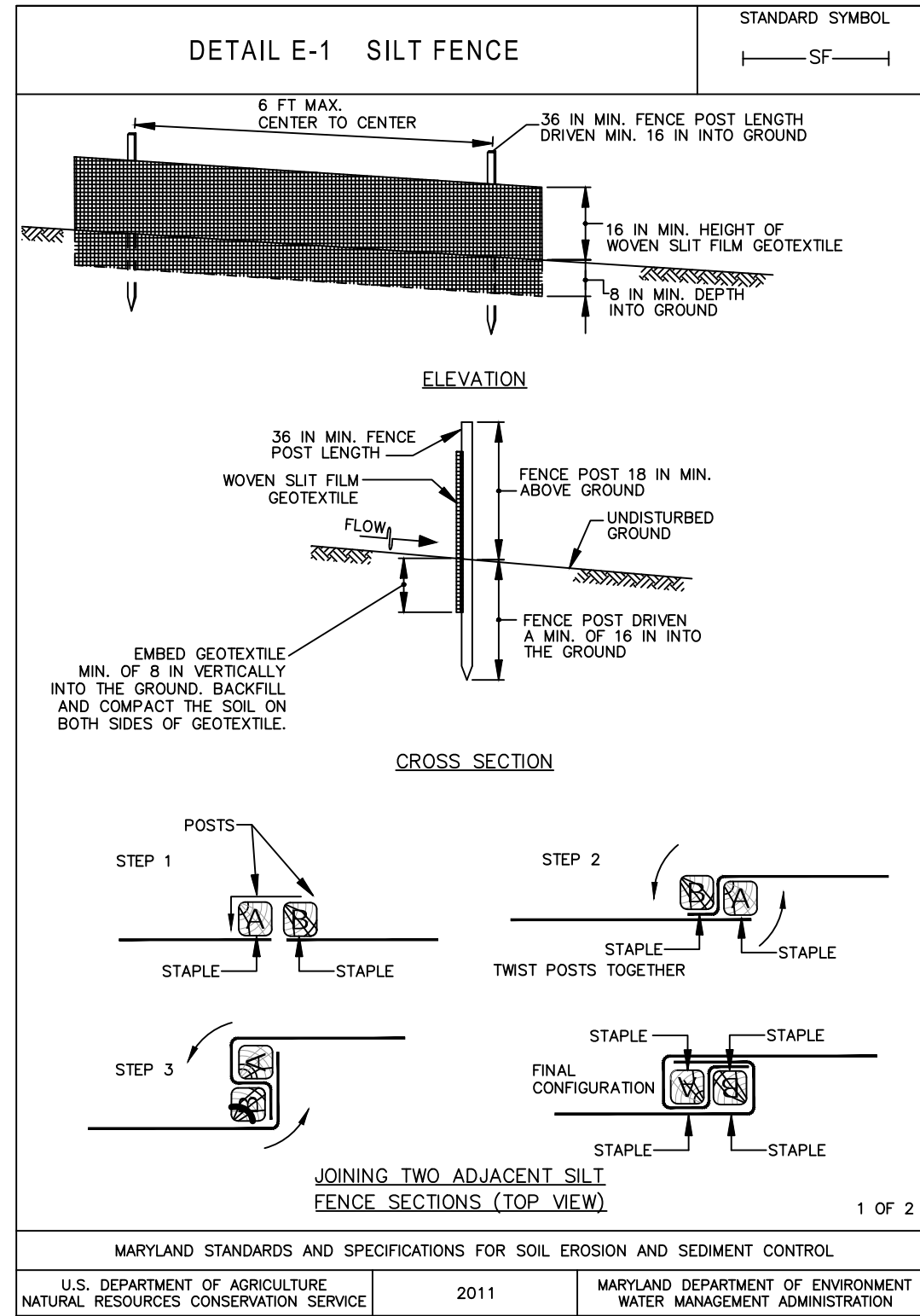
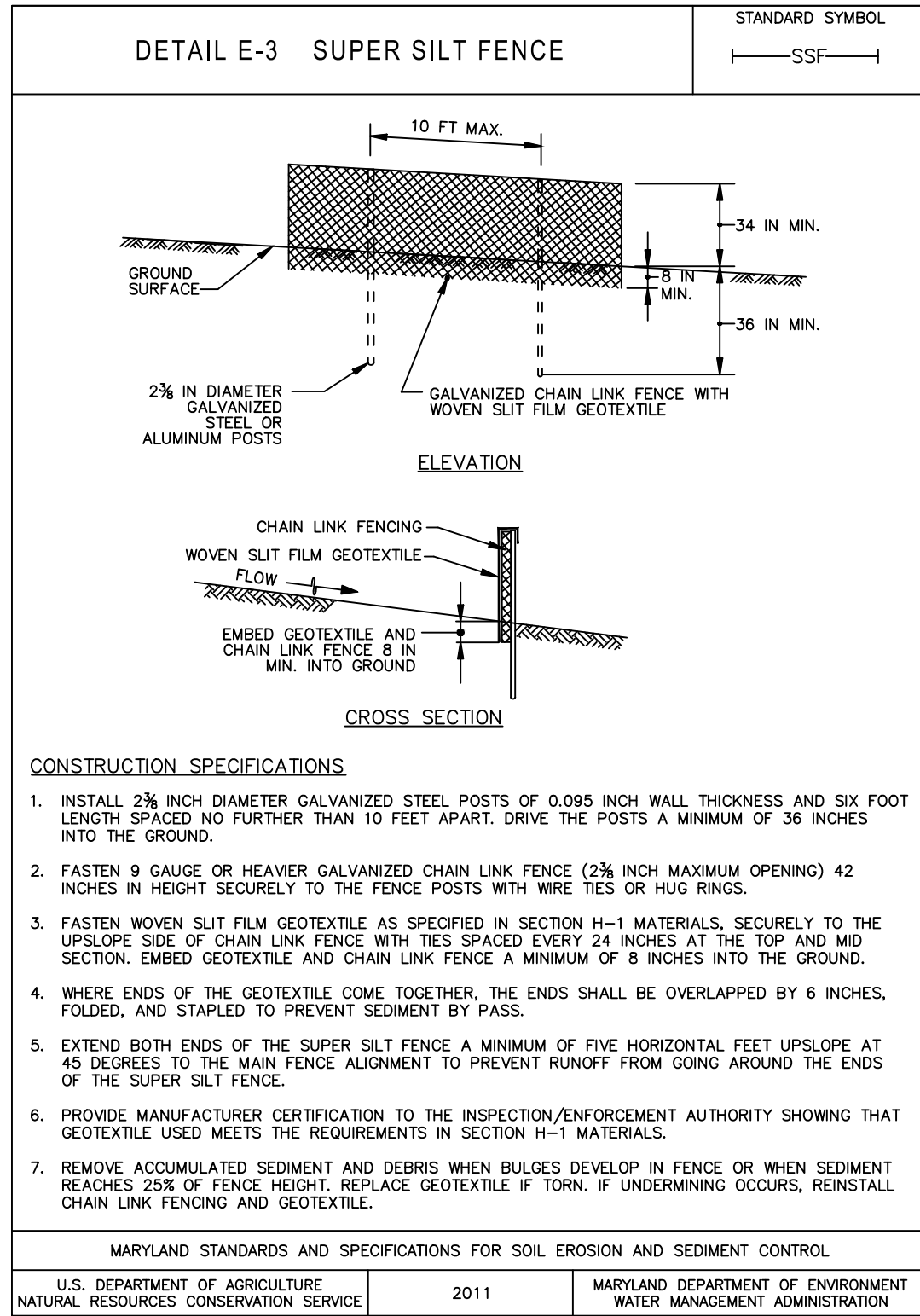
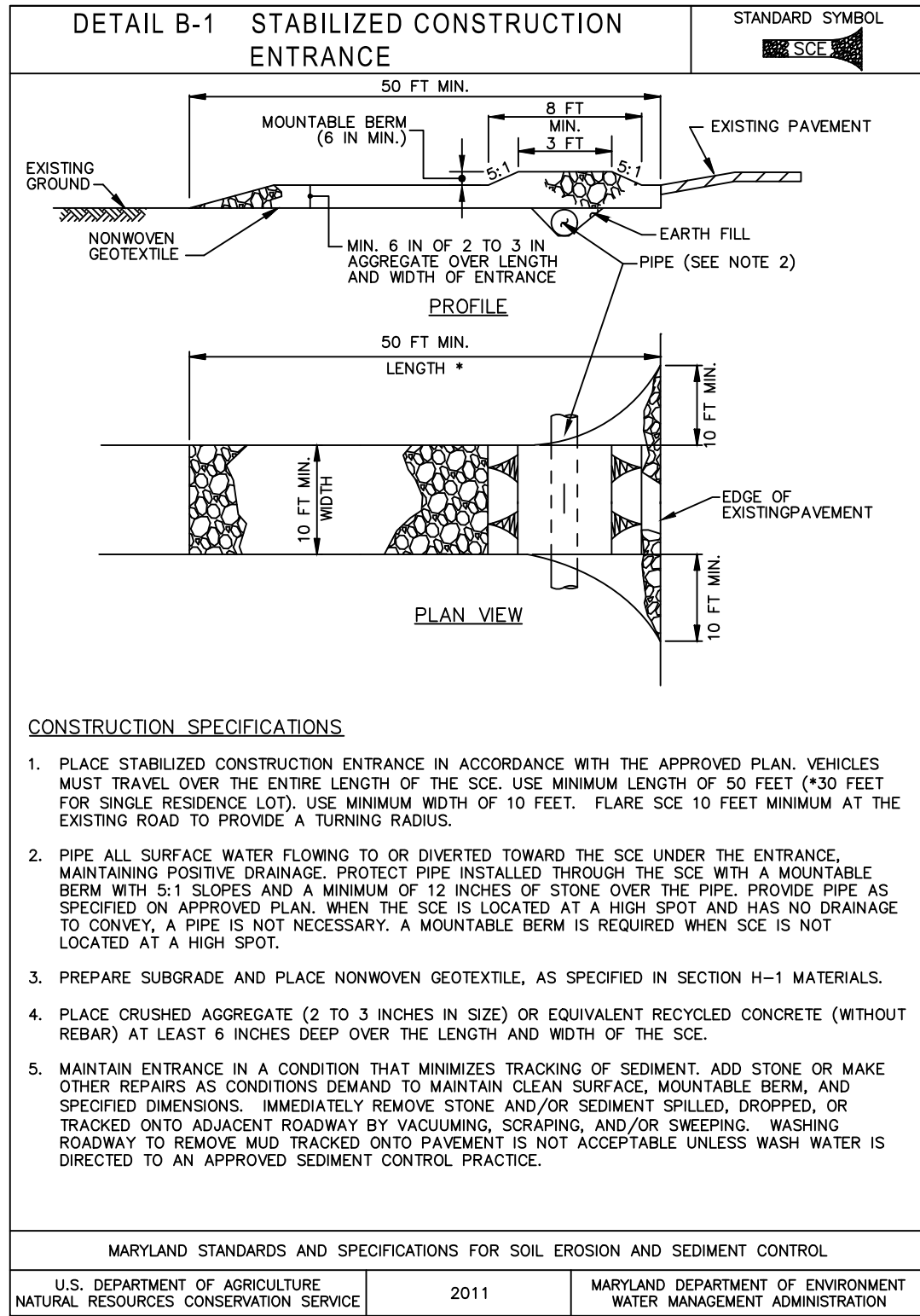
COUNTY FILE: S-24-0031
SHEET 13 OF 16

C-400

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STANDARD EROSION AND SEDIMENT CONTROL NOTES

THE WATER MANAGEMENT ADMINISTRATION REQUIRES THAT THESE NOTES, IN THEIR ENTIRETY, BE INCLUDED ON THE EROSION AND SEDIMENT CONTROL PLAN. IT IS UNDERSTOOD THAT EVERY NOTE MAY NOT APPLY TO ALL PROJECTS. THE REQUIREMENT OF ANY INDIVIDUAL NOTE NOT APPLICABLE TO THE SUBJECT PROJECT IS NOT BINDING UPON THE APPLICANT OR THE APPLICANT'S CONTRACTOR.

1. THE CONTRACTOR SHALL NOTIFY THE ADMINISTRATION (WMA) AT (410) 537-3510 SEVEN (7) DAYS BEFORE COMMENCING ANY LAND DISTURBING ACTIVITY AND, UNLESS WAIVED BY THE ADMINISTRATION, SHALL BE REQUIRED TO HOLD A PRE-CONSTRUCTION MEETING BETWEEN PROJECT REPRESENTATIVES AND A REPRESENTATIVE OF WMA.
2. THE CONTRACTOR MUST NOTIFY WMA IN WRITING AND BY TELEPHONE AT THE FOLLOWING POINTS:
 - A. THE REQUIRED PRE-CONSTRUCTION MEETING.
 - B. FOLLOWING INSTALLATION OF SEDIMENT CONTROL MEASURES.
 - C. DURING THE INSTALLATION OF SEDIMENT BASINS (TO BE CONVERTED INTO PERMANENT STORMWATER MANAGEMENT STRUCTURES) AT THE REQUIRED INSPECTION POINTS (SEE INSPECTION CHECKLIST ON PLAN). NOTIFICATION PRIOR TO COMMENCING CONSTRUCTION OF EACH STEP IS MANDATORY.
 - D. PRIOR TO REMOVAL OR MODIFICATION OF ANY SEDIMENT CONTROL STRUCTURE(S).
 - E. PRIOR TO REMOVAL OF ALL SEDIMENT CONTROL DEVICES.
 - F. PRIOR TO FINAL ACCEPTANCE.
3. THE CONTRACTOR SHALL CONSTRUCT ALL EROSION AND SEDIMENT CONTROL MEASURES PER THE APPROVED PLAN AND CONSTRUCTION SEQUENCE AND SHALL HAVE THEM INSPECTED AND APPROVED BY THE AGENCY INSPECTOR OR WMA INSPECTOR PRIOR TO BEGINNING ANY OTHER LAND DISTURBANCES. MINOR SEDIMENT CONTROL DEVICE LOCATION ADJUSTMENTS MAY BE MADE IN THE FIELD WITH THE APPROVAL OF THE WMA INSPECTOR. THE CONTRACTOR SHALL ENSURE THAT ALL RUNOFF FROM DISTURBED AREAS IS DIRECTED TO THE SEDIMENT CONTROL DEVICES AND SHALL NOT REMOVE ANY EROSION AND SEDIMENT CONTROL MEASURES WITHOUT PRIOR PERMISSION FROM WMA INSPECTOR AND AGENCY INSPECTOR. THE CONTRACTOR MUST OBTAIN PRIOR AGENCY AND WMA APPROVAL FOR CHANGES TO THE SEDIMENT CONTROL PLAN AND / OR SEQUENCE OF CONSTRUCTION.
4. THE CONTRACTOR SHALL PROTECT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS TO PREVENT THE DEPOSITION OF MATERIALS ONTO PUBLIC ROADS. ALL MATERIALS DEPOSITED ONTO PUBLIC ROADS SHALL BE REMOVED IMMEDIATELY.
5. THE CONTRACTOR SHALL INSPECT DAILY AND MAINTAIN CONTINUOUSLY IN AN EFFECTIVE OPERATING CONDITION ALL EROSION AND SEDIMENT CONTROL MEASURES UNTIL SUCH TIMES AS THEY ARE REMOVED WITH PRIOR PERMISSION FROM WMA INSPECTOR AND AGENCY INSPECTOR.
6. ALL SEDIMENT BASINS, TRAP EMBANKMENTS AND SLOPES, PERIMETER DIKES, SWALES AND ALL DISTURBED SLOPES STEEPER OR EQUAL TO 3:1 SHALL BE STABILIZED WITH SOD OR SEED AND ANCHORED STRAW MULCH, OR OTHER APPROVED STABILIZATION MEASURES, AS SOON AS POSSIBLE BUT NO LATER THAN THREE (3) CALENDAR DAYS AFTER ESTABLISHMENT. ALL AREAS DISTURBED OUTSIDE OF THE PERIMETER SEDIMENT CONTROL SYSTEM MUST BE MINIMIZED. MAINTENANCE MUST BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION.
7. THE CONTRACTOR SHALL APPLY SOD OR SEED AND ANCHORED STRAW MULCH, OR OTHER APPROVED STABILIZATION MEASURES TO ALL DISTURBED AREAS AND STOCKPILES WITHIN SEVEN (7) CALENDAR DAYS AFTER STRIPPING AND GRADING ACTIVITIES HAVE CEASED IN THE AREA. MAINTENANCE SHALL BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION.
8. PRIOR TO REMOVAL OF SEDIMENT CONTROL MEASURES, THE CONTRACTOR SHALL STABILIZE AND HAVE ESTABLISHED PERMANENT STABILIZATION FOR ALL CONTRIBUTORY DRAINAGE AREAS USING SOD OR AN APPROVED PERMANENT SEED MIXTURE WITH REQUIRED SOIL AMENDMENTS AND AN APPROVED ANCHORED MULCH. WOOD FIBER MULCH MAY ONLY BE USED IN SEEDING SEASON WHERE THE SLOPE DOES NOT EXCEED 10% AND GRADING HAS BEEN DONE TO PROMOTE SHEET FLOW DRAINAGE. AREAS BROUGHT TO FINISHED GRADE DURING THE SEEDING SEASON SHALL BE PERMANENTLY STABILIZED AS SOON AS POSSIBLE, BUT NOT LATER THAN SEVEN (7) CALENDAR DAYS AFTER ESTABLISHMENT. WHEN PROPERTY IS BROUGHT TO FINISHED GRADE DURING THE MONTHS OF NOVEMBER THROUGH FEBRUARY, AND PERMANENT STABILIZATION IS FOUND TO BE IMPRACTICAL, TEMPORARY SEED AND ANCHORED STRAW MULCH SHALL BE APPLIED TO DISTURBED AREAS. THE FINAL PERMANENT STABILIZATION OF SUCH PROPERTY SHALL BE APPLIED BY MARCH 15 OR EARLIER IF GROUND AND WEATHER CONDITIONS ALLOW.
9. THE SITE'S APPROVAL LETTER, APPROVED EROSION AND SEDIMENT CONTROL PLANS, DAILY LOG BOOKS, AND TEST REPORTS SHALL BE AVAILABLE AT THE SITE FOR INSPECTION BY DULY AUTHORIZED OFFICIALS OF WMA AND THE AGENCY RESPONSIBLE FOR PROJECT.
10. SURFACE DRAINAGE FLOWS OVER UNSTABILIZED CUT AND FILL SLOPES SHALL BE CONTROLLED BY EITHER PREVENTING DRAINAGE FLOWS FROM TRAVERSING THE SLOPES OR BY INSTALLING PROTECTIVE DEVICES TO LOWER THE WATER DOWNSLOPE WITHOUT CAUSING EROSION. DIKES SHALL BE INSTALLED AND MAINTAINED AT THE TOP OF A CUT OR FILL SLOPE UNTIL THE SLOPE AND DRAINAGE AREA TO IT ARE FULLY STABILIZED, AT WHICH TIME THEY MUST BE REMOVED AND FINAL GRADING DONE TO PROMOTE SHEET FLOW DRAINAGE. PROTECTIVE METHODS MUST BE PROVIDED AT POINTS OF CONCENTRATED FLOW WHERE EROSION IS LIKELY TO OCCUR.
11. PERMANENT SWALES OR OTHER POINTS OF CONCENTRATED WATER FLOW SHALL BE STABILIZED WITH SOD OR SEED WITH AN APPROVED EROSION CONTROL MATTING, RIP-RAP, OR BY OTHER APPROVED STABILIZATION MEASURES.
12. TEMPORARY SEDIMENT CONTROL DEVICES MAY BE REMOVED, WITH PERMISSION OF WMA INSPECTOR AND AGENCY INSPECTORS, WITHIN THIRTY (30) CALENDAR DAYS FOLLOWING ESTABLISHMENT OF PERMANENT STABILIZATION IN ALL CONTRIBUTORY DRAINAGE AREAS. STORMWATER MANAGEMENT STRUCTURES USED TEMPORARILY FOR SEDIMENT CONTROL SHALL BE CONVERTED TO THE PERMANENT CONFIGURATION WITHIN THIS TIME PERIOD AS WELL.
13. NO PERMANENT CUT OR FILL SLOPE WITH A GRADIENT STEEPER THAN 3:1 WILL BE PERMITTED IN LAWN MAINTENANCE AREAS. A SLOPE GRADIENT OF UP TO 2:1 WILL BE PERMITTED IN NONMAINTENANCE AREAS PROVIDED THAT THOSE AREAS ARE INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN WITH A LOW-MAINTENANCE GROUND COVER SPECIFIED FOR PERMANENT STABILIZATION. SLOPE GRADIENT STEEPER THAN 2:1 WILL NOT BE PERMITTED WITH VEGETATIVE STABILIZATION.
14. FOR FINISHED GRADING, THE CONTRACTOR SHALL PROVIDE ADEQUATE GRADIENTS TO PREVENT WATER FROM PONDING FOR MORE THAN TWENTY FOUR (24) HOURS AFTER THE END OF A RAINFALL EVENT. DRAINAGE COURSES AND SWALE FLOW AREAS MAY TAKE AS LONG AS FORTY-EIGHT (48) HOURS AFTER THE END OF A RAINFALL EVENT TO DRAIN. AREAS DESIGNED TO HAVE STANDING WATER SHALL NOT BE REQUIRED TO MEET THIS REQUIREMENT.
15. SEDIMENT TRAPS OR BASINS ARE NOT PERMITTED WITHIN 20 FEET OF A FOUNDATION THAT EXISTS OR IS UNDER CONSTRUCTION. NO STRUCTURE MAY BE CONSTRUCTED WITHIN 20 FEET OF AN ACTIVE SEDIMENT TRAP OR BASIN.
16. THE WMA INSPECTOR HAS THE OPTION OF REQUIRING ADDITIONAL SAFETY OR SEDIMENT CONTROL MEASURES, IF DEEMED NECESSARY.
17. ALL TRAP DEPTH DIMENSIONS ARE RELATIVE TO THE OUTLET ELEVATION. ALL TRAPS MUST HAVE A STABLE OUTFALL. ALL TRAPS AND BASINS SHALL HAVE STABLE INFLOW POINTS.
18. VEGETATIVE STABILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. REFER TO APPROPRIATE SPECIFICATIONS FOR TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING, SODDING, AND GROUND COVERS.
19. SEDIMENT SHALL BE REMOVED AND THE TRAP OR BASIN RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE QUARTER OF THE TOTAL DEPTH OF THE TRAP OR BASIN. TOTAL DEPTH SHALL BE MEASURED FROM THE TRAP OR BASIN BOTTOM TO THE CREST OF THE OUTLET.
20. SEDIMENT REMOVED FROM TRAPS (AND BASINS) SHALL BE PLACED AND STABILIZED IN APPROVED AREAS, BUT NOT WITHIN A FLOODPLAIN, WETLAND OR TREE-SAVE AREA. WHEN PUMPING SEDIMENT LADEN WATER, THE DISCHARGE MUST BE DIRECTED TO A SEDIMENT TRAPPING DEVICE PRIOR TO RELEASE FROM THE SITE. A SUMP PIT MAY BE USED IF SEDIMENT TRAPS THEMSELVES ARE BEING PUMPED OUT.
21. ALL WATER REMOVED FROM EXCAVATED AREAS (E.G. UTILITY TRENCHES) SHALL BE PASSED THROUGH AN APPROVED DEWATERING PRACTICE OR PUMPED TO A SEDIMENT TRAP OR BASIN PRIOR TO DISCHARGE FROM THE SITE (I.E. VIA FUNCTIONAL STORM DRAIN SYSTEM OR TO STABLE GROUND SURFACE).
22. SEDIMENT CONTROL FOR UTILITY CONSTRUCTION FOR AREAS OUTSIDE OF DESIGNED CONTROLS OR AS DIRECTED BY ENGINEER OR WMA INSPECTOR:
 - A. CALL "MISS UTILITY" AT 1-800-257-7777 48 HOURS PRIOR TO THE START OF WORK.
 - B. EXCAVATED TRENCH MATERIAL SHALL BE PLACED ON THE HIGH SIDE OF THE TRENCH.
 - C. TRENCHES FOR UTILITY INSTALLATION SHALL BE BACKFILLED, COMPACTED, AND STABILIZED AT THE END OF EACH WORKING DAY. NO MORE TRENCH SHALL BE OPENED THAN CAN BE COMPLETED THE SAME DAY, UNLESS:
 - a. TEMPORARY SILT FENCE SHALL BE PLACED IMMEDIATELY DOWNSTREAM OF ANY DISTURBED AREA INTENDED TO REMAIN DISTURBED FOR MORE THAN ONE DAY.

STANDARD EROSION AND SEDIMENT CONTROL NOTES (CONTINUED)

23. WHERE DEEMED APPROPRIATE BY THE ENGINEER OR INSPECTOR, SEDIMENT BASINS AND TRAPS MAY NEED TO BE SURROUNDED WITH AN APPROVED SAFETY FENCE. THE FENCE MUST CONFORM TO LOCAL ORDINANCES AND REGULATIONS. THE DEVELOPER OR OWNER SHALL CHECK WITH LOCAL BUILDING OFFICIALS ON APPLICABLE SAFETY REQUIREMENTS; WHERE SAFETY FENCE IS DEEMED APPROPRIATE AND LOCAL ORDINANCES DO NOT SPECIFY FENCING SIZES AND TYPES, THE FOLLOWING SHALL BE USED AS A MINIMUM STANDARD: THE SAFETY FENCE MUST BE MADE OF WELDED WIRE AND AT LEAST 42 INCHES HIGH, HAVE POSTS SPACED NO FARTHER APART THAN 8 FEET, HAVE MESH OPENINGS NO GREATER THAN 2 INCHES IN WIDTH AND 4 INCHES IN HEIGHT, AND A MINIMUM OF 14 GAUGE WIRE. SAFETY FENCE MUST BE MAINTAINED AND IN GOOD CONDITION AT ALL TIMES.
24. OFF-SITE SPOIL OR BORROW AREAS ON STATE OR FEDERAL PROPERTY MUST HAVE PRIOR APPROVAL BY WMA AND OTHER APPLICABLE STATE, FEDERAL, AND LOCAL AGENCIES; OTHERWISE APPROVAL MUST BE GRANTED BY THE LOCAL AUTHORITIES. ALL WASTE AND BORROW AREAS OFF-SITE MUST BE PROTECTED BY SEDIMENT CONTROL MEASURES AND STABILIZED.
25. SITES WHERE INFILTRATION DEVICES ARE USED FOR THE CONTROL OF STORMWATER, EXTREME CARE MUST BE TAKEN TO PREVENT RUNOFF FROM UNSTABILIZED AREAS FROM ENTERING THE STRUCTURE DURING CONSTRUCTION. SEDIMENT CONTROL DEVICES PLACED IN INFILTRATION AREAS MUST HAVE BOTTOM ELEVATIONS AT LEAST TWO (2) FEET HIGHER THAN THE FINISH GRADE BOTTOM ELEVATION OF THE INFILTRATION PRACTICE. WHEN CONVERTING A SEDIMENT TRAP TO AN INFILTRATION DEVICE, ALL ACCUMULATED SEDIMENT MUST BE REMOVED AND DISPOSED OF PRIOR TO FINAL GRADING OF INFILTRATION DEVICE.
26. WHEN A STORM DRAIN SYSTEM OUTFALL IS DIRECTED TO A SEDIMENT TRAP OR SEDIMENT BASIN AND THE SYSTEM IS TO BE USED FOR TEMPORARILY CONVEYING SEDIMENT LADEN WATER, ALL STORM DRAIN INLETS IN NON-SUMP AREAS OF TEMPORARY ASPHALT BERMS CONSTRUCTED AT THE TIME OF BASE PAVING TO DIRECT GUTTER FLOW INTO THE INLETS TO AVOID SURCHARGING AND OVERFLOW OF INLETS IN SUMP AREAS.

SECTION I -- VEGETATIVE STABILIZATION METHODS AND MATERIALS

- A. SITE PREPARATION
 - I. INSTALL EROSION AND SEDIMENT CONTROL STRUCTURES (EITHER TEMPORARY OR PERMANENT) SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, BERMS, WATERWAYS, OR SEDIMENT CONTROL BASINS. II. PERFORM ALL GRADING OPERATIONS AT RIGHT ANGLES TO THE SLOPE. FINAL GRADING AND SHAPING IS NOT USUALLY NECESSARY FOR TEMPORARY SEEDING.
 - III. SCHEDULE REQUIRED SOIL TESTS TO DETERMINE SOIL AMENDMENT COMPOSITION AND APPLICATION RATES FOR SITES HAVING DISTURBED AREA OVER 5 ACRES.
- B. SOIL AMENDMENTS (FERTILIZER AND LIME SPECIFICATIONS)
 - I. SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATIOS AND APPLICATION RATES FOR BOTH LIME AND FERTILIZER ON SITES HAVING DISTURBED AREAS OVER 5 ACRES. SOIL ANALYSIS MAY BE PERFORMED BY THE UNIVERSITY OF MARYLAND OR A RECOGNIZED COMMERCIAL LABORATORY. SOIL SAMPLES TAKEN FOR ENGINEERING PURPOSES MAY ALSO BE USED FOR CHEMICAL ANALYSES.
 - II. FERTILIZERS SHALL BE UNIFORM IN COMPOSITION, FRESH FLOWING AND SUITABLE FOR ACCURATE APPLICATION BY APPROVED EQUIPMENT. MANURE MAY BE SUBSTITUTED FOR FERTILIZER WITH PRIOR APPROVAL FROM THE APPROPRIATE AUTHORITY. FERTILIZERS SHALL ALL BE DELIVERED TO THE SITE FULLY LABELED ACCORDING TO THE APPLICABLE STATE FERTILIZER LAWS AND SHALL BEAR THE NAME, TRADE NAME OR TRADEMARK AND WARRANT OF THE PRODUCER.
 - III. LIME MATERIALS SHALL BE GROUND LIMESTONE (HYDRATED OR BURNT LIME MAY BE SUBSTITUTED) WHICH CONTAINS AT LEAST 50% TOTAL OXIDES (CALCIUM AND MAGNESIUM) AS SOON AS POSSIBLE SHALL BE GROUND TO SUCH FINENESS THAT AT LEAST 50% WILL PASS THROUGH A #100 MESH SIEVE AND 98 - 100 % WILL PASS THROUGH A #20 MESH SIEVE.
 - IV. INCORPORATE LIME AND FERTILIZER INTO THE TOP 3" - 5" OF SOIL BY DISKING OR OTHER SUITABLE MEANS.
- C. SEEDBED PREPARATION
 - I. TEMPORARY SEEDING
 - A. SEEDBED PREPARATION SHALL CONSIST OF LOOSENING SOIL TO A DEPTH OF 3" TO 5" BY MEANS OF SUITABLE AGRICULTURAL OR CONSTRUCTION EQUIPMENT, SUCH AS DISC HARROWS OR CHISEL PLOWS OR RIPPERS MOUNTED ON CONSTRUCTION EQUIPMENT. AFTER THE SOIL IS LOOSENED, IT SHOULD NOT BE ROLLED OR DRAGGED SMOOTH BUT LEFT IN THE ROUGHENED CONDITION. SLOPED AREAS (GREATER THAN 3:1) SHOULD BE TRACKED LEAVING THE SURFACE IN AN IRREGULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE.
 - B. APPLY FERTILIZER AND LIME AS PRESCRIBED ON THE PLANS.
 - C. INCORPORATE LIME AND FERTILIZER INTO THE TOP 3" - 5" OF SOIL BY DISKING OR OTHER SUITABLE MEANS.
 - II. PERMANENT SEEDING
 - A. MINIMUM SOIL CONDITIONS REQUIRED FOR PERMANENT VEGETATIVE ESTABLISHMENT:
 1. SOIL PH SHALL BE BETWEEN 6.0 AND 7.0
 2. SOLUBLE SALTS SHALL BE LESS THAN 500 PARTS PER MILLION (PPM)
 3. THE SOIL SHALL CONTAIN LESS THAN 40% CLAY BUT ENOUGH FINE GRAINED MATERIAL (> 30% SILT PLUS CLAY) TO PROVIDE THE CAPACITY TO HOLD A MODERATE AMOUNT OF MOISTURE. AN EXCEPTION IS IF LOVEGRASS OR SEREGIA LESPEDEZA IS TO BE PLANTED, THEN A SANDY SOIL (< 30% SILT PLUS CLAY) WOULD BE ACCEPTABLE.
 4. SOIL SHALL CONTAIN 1.5 % MINIMUM ORGANIC MATTER BY WEIGHT.
 5. SOIL MUST CONTAIN SUFFICIENT PORE SPACE TO PERMIT ADEQUATE ROOT PENETRATION.
 6. IF THESE CONDITIONS CANNOT BE MET BY SOILS ON SITE, ADDING TOPSOIL IS REQUIRED IN ACCORDANCE WITH SECTION 21 STANDARD AND SPECIFICATION FOR TOPSOIL.
 - B. AREAS PREVIOUSLY GRADED IN CONFORMANCE WITH THE DRAWINGS SHALL BE MAINTAINED IN A TRUE AND EVEN GRADE, THEN SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF 3 - 5" TO PERMIT BONDING OF THE TOPSOIL TO THE SURFACE AREA AND TO CREATE HORIZONTAL EROSION CHECK SLOTS TO PREVENT TOPSOIL FROM SLIDING DOWN A SLOPE.
 - C. APPLY SOIL AMENDMENTS AS PER SOIL TEST OR AS INCLUDED ON THE PLANS.
 - D. MIX SOIL AMENDMENTS INTO THE TOP 3 - 5" OF TOPSOIL BY DISKING OR OTHER SUITABLE MEANS. LAWN AREAS SHOULD BE SMOOTHED TO SMOOTH THE SURFACE. REMOVE LARGE OBJECTS LIKE STONES AND BRANCHES, AND READY THE AREA FOR SEED APPLICATION. WHERE SITE CONDITIONS WILL NOT PERMIT NORMAL SEEDBED PREPARATION, LOOSEN SURFACE SOIL BY DRAGGING WITH A HEAVY CHAIN OR OTHER EQUIPMENT TO ROUGHEN THE SURFACE. STEEP SLOPES (STEEPER THAN 3:1) SHOULD BE TRACKED BY A DOZER LEAVING THE SOIL IN AN IRREGULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE. THE TOP 1" - 3" OF SOIL SHOULD BE LOOSE AND FRIABLE. SEEDBED LOOSENING MAY NOT BE NECESSARY ON NEWLY DISTURBED AREAS.
- D. SEED SPECIFICATIONS
 - I. ALL SEED MUST MEET THE REQUIREMENTS OF THE MARYLAND STATE SEED LAW. ALL SEED SHALL BE SUBJECT TO RE-TESTING BY A RECOGNIZED SEED LABORATORY. ALL SEED USED SHALL HAVE BEEN TESTED WITHIN THE 6 MONTHS IMMEDIATELY PRECEDING THE DATE OF SOWING SUCH MATERIAL ON THIS JOB.
NOTE: SEED TAGS SHALL BE MADE AVAILABLE TO THE INSPECTOR TO VERIFY TYPE AND RATE OF SEED USED.
 - II. INOCULANT - THE INOCULANT FOR TREATING LEGUME SEED IN THE SEED MIXTURES SHALL BE A PURE CULTURE OF NITROGEN-FIXING BACTERIA PREPARED SPECIFICALLY FOR THE SPECIES. INOCULANTS SHALL NOT BE USED LATER THAN THE DATE INDICATED ON THE CONTAINER. ADD FRESH INOCULANT AS DIRECTED ON PACKAGE. USE FOUR TIMES THE RECOMMENDED RATE WHEN HYDROSEEDING. NOTE: IT IS VERY IMPORTANT TO KEEP INOCULANT AS COOL AS POSSIBLE UNTIL USE. TEMPERATURES ABOVE 75-80° F. CAN WEAKEN BACTERIA AND MAKE THE INOCULANT LESS EFFECTIVE.
- E. METHODS OF SEEDING
 - I. HYDROSEEDING: APPLY SEED UNIFORMLY WITH HYDROSEEDER (SLURRY INCLUDES SEED AND FERTILIZER), BROADCAST OR DROP SEEDER, OR A CULTIPLACKER SEEDER.
 - A. IF FERTILIZER IS BEING APPLIED AT THE TIME OF SEEDING, THE APPLICATION RATES AMOUNTS WILL NOT EXCEED THE FOLLOWING: NITROGEN: MAXIMUM OF 100 LBS. PER ACRE TOTAL OF SOLUBLE NITROGEN; P205 (PHOSPHORUS): 200 LBS/AC; K2O (POTASSIUM): 200 LBS/AC.
 - B. LIME - USE ONLY GROUND AGRICULTURAL LIMESTONE, (UP TO 3 TONS PER ACRE MAY BE APPLIED BY HYDROSEEDING). NORMALLY, NOT MORE THAN 2 TONS ARE APPLIED BY HYDROSEEDING AT ANY ONE TIME. DO NOT USE BURNT OR HYDRATED LIME WHEN HYDROSEEDING.
 - C. SEED AND FERTILIZER SHALL BE MIXED ON SITE AND SEEDING SHALL BE DONE IMMEDIATELY AND WITHOUT INTERRUPTION.

SECTION I -- VEGETATIVE STABILIZATION METHODS AND MATERIALS (CONTINUED)

- II. DRY SEEDING: THIS INCLUDES USE OF CONVENTIONAL DROP OR BROADCAST SPREADERS.
 - A. SEED SPREAD DRY SHALL BE INCORPORATED INTO THE SUBSOIL AT THE RATES PRESCRIBED ON THE TEMPORARY OR PERMANENT SEEDING SUMMARIES OR TABLES 25 OR 26. THE SEEDED AREA SHALL THEN BE ROLLED WITH A WEIGHTED ROLLER TO PROVIDE GOOD SEED TO SOIL CONTACT.
 - B. WHERE PRACTICAL, SEED SHOULD BE APPLIED IN TWO DIRECTIONS PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING RATE IN EACH DIRECTION.
 - III. DRILL OR CULTIPLACKER SEEDING: MECHANIZED SEEDERS THAT APPLY AND COVER SEED WITH SOIL. A. CULTIPLACKER SEEDERS ARE REQUIRED TO BURY THE SEED IN SUCH A FASHION AS TO PROVIDE AT LEAST 1/4 INCH OF SOIL COVERING. SEEDBED MUST BE FIRM AFTER PLANTING.
 - B. WHERE PRACTICAL, SEED SHOULD BE APPLIED IN TWO DIRECTIONS PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING RATE IN EACH DIRECTION.
- F. MULCH SPECIFICATIONS (IN ORDER OF PREFERENCE)
 - I. STRAW SHALL CONSIST OF THOROUGHLY THRESHED WHEAT, RYE OR OAT STRAW, REASONABLY BRIGHT COLOR, AND SHALL NOT BE MUSTY, MOLDY, CAKED, DECAYED, OR EXCESSIVELY DUSTY AND SHALL BE FREE OF NOXIOUS WEED SEEDS AS SPECIFIED IN THE MARYLAND SEED LAW.
 - II. WOOD CELLULOSE FIBER MULCH (WCFM)
 - A. WCFM SHALL CONSIST OF SPECIALLY PREPARED WOOD CELLULOSE PROCESSED INTO A UNIFORM FIBROUS PHYSICAL STATE.
 - B. WCFM SHALL BE DYED GREEN OR CONTAIN A GREEN DYE IN THE PACKAGE THAT WILL PROVIDE APPROPRIATE COLOR TO FACILITATE VISUAL INSPECTION OF THE UNIFORMLY SPREAD SLURRY.
 - C. WCFM, INCLUDING DYE, SHALL CONTAIN NO GERMINATION OR GROWTH INHIBITING FACTORS.
 - D. WCFM MATERIALS SHALL BE MANUFACTURED AND PROCESSED IN SUCH A MANNER THAT THE WOOD CELLULOSE FIBER MULCH WILL REMAIN IN UNIFORM SUSPENSION IN WATER UNDER AGITATION AND WILL BLEND WITH SEED, FERTILIZER AND OTHER ADDITIVES TO FORM A HOMOGENEOUS SLURRY. THE MULCH MATERIAL SHALL FORM A BLOTTER-LIKE GROUND COVER, ON APPLICATION, HAVING MOISTURE, ABSORPTION AND PERCOLATION PROPERTIES AND SHALL COVER AND HOLD GRASS SEED IN CONTACT WITH THE SOIL WITHOUT INHIBITING THE GROWTH OF THE GRASS SEEDLINGS.
 - E. WCFM MATERIAL SHALL CONTAIN NO ELEMENTS OR COMPOUNDS AT CONCENTRATION LEVELS THAT WILL BE PHYTO-TOXIC.
 - F. WCFM MUST CONFORM TO THE FOLLOWING PHYSICAL REQUIREMENTS: FIBER LENGTH TO APPROXIMATELY 10 MM., DIAMETER APPROXIMATELY 1 MM., PH RANGE OF 4.0 TO 8.5, ASH CONTENT OF 1.6% MAXIMUM AND WATER HOLDING CAPACITY OF 30% MINIMUM.
- NOTE: ONLY STERILE STRAW MULCH SHOULD BE USED IN AREAS WHERE ONE SPECIES OF GRASS IS DESIRED.
- G. MULCHING SEEDED AREAS - MULCH SHALL BE APPLIED TO ALL SEEDED AREAS IMMEDIATELY AFTER SEEDING.
 - I. IF GRADING IS COMPLETED OUTSIDE OF THE SEEDING SEASON, MULCH ALONE SHALL BE APPLIED AS PRESCRIBED IN THIS SECTION AND MAINTAINED UNTIL THE SEEDING SEASON RETURNS AND SEEDING CAN BE PERFORMED IN ACCORDANCE WITH THESE SPECIFICATIONS.
 - II. WHEN STRAW MULCH IS USED, IT SHALL BE SPREAD OVER ALL SEEDED AREAS AT THE RATE OF 2 TONS/ACRE. MULCH SHALL BE APPLIED TO A UNIFORM LOOSE DEPTH OF BETWEEN 1" AND 2". MULCH APPLIED SHALL ACHIEVE A UNIFORM DISTRIBUTION AND DEPTH SO THAT THE SOIL SURFACE NOT EXPOSED. IF A MULCH ANCHORING TOOL IS TO BE USED, THE RATE SHOULD BE INCREASED TO 2.5 TONS/ACRE.
 - III. WOOD CELLULOSE FIBER USED AS A MULCH SHALL BE APPLIED AT A NET DRY WEIGHT OF 1,500 LBS. PER ACRE. THE WOOD CELLULOSE FIBER SHALL BE MIXED WITH WATER, AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LBS. OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER.
- H. SECURING STRAW MULCH (MULCH ANCHORING): MULCH ANCHORING SHALL BE PERFORMED IMMEDIATELY FOLLOWING MULCH APPLICATION TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS (LISTED BY PREFERENCE), DEPENDING UPON SIZE OF AREA AND EROSION HAZARD:
 - I. A MULCH ANCHORING TOOL IS A TRACTOR DRAWN IMPLEMENT DESIGNED TO PUNCH AND ANCHOR INTO THE SOIL SURFACE A MINIMUM OF TWO (2) INCHES. THIS PRACTICE IS MOST EFFECTIVE LARGE AREAS, BUT IS LIMITED TO FLATTER SLOPES WHERE EQUIPMENT CAN OPERATE SAFELY. IF USED ON SLOPING LAND, THIS SHOULD BE USED ON THE CONTOUR IF POSSIBLE.
 - II. WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. THE FIBER BINDER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 POUNDS/ACRE. THE WOOD CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 POUNDS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER.
 - III. APPLICATION OF LIQUID BINDERS SHOULD BE HEAVIER AT THE EDGES WHERE WIND CATCHES MULCH, SUCH AS IN VALLEYS AND ON CRESTS OF BANKS. THE REMAINDER OF AREA SHOULD BE APPLIED UNIFORM AFTER BINDER APPLICATION. SYNTHETIC BINDERS - SUCH AS ACRYLIC OLR (ACRO-TACK), DCA-70, PETROSET, TERRA TACK II, TERRA TACK AR OR OTHER APPROVED EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER TO ANCHOR MULCH.
 - IV. LIGHTWEIGHT PLASTIC NETTING MAY BE STAPLED OVER THE MULCH ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. NETTING IS USUALLY AVAILABLE IN ROLLS 4' TO 15' FEET WIDE AND 300 TO 3,000 FEET LONG.
- I. INCREMENTAL STABILIZATION - CUT SLOPES
 - I. ALL CUT SLOPES SHALL BE DRESSED, PREPARED, SEEDED AND MULCHED AS THE WORK PROGRESSES. SLOPES SHALL BE EXCAVATED AND STABILIZED IN EQUAL INCREMENTS NOT TO EXCEED 15'.
 - II. CONSTRUCTION SEQUENCE (REFER TO FIGURE 3 BELOW):
 - A. EXCAVATE AND STABILIZE ALL TEMPORARY SWALES, SIDE DITCHES, OR BERMS THAT WILL BE USED TO CONVEY RUNOFF FROM THE EXCAVATION.
 - B. PERFORM PHASE I EXCAVATION, DRESS, AND STABILIZE.
 - C. PERFORM PHASE 2 EXCAVATION, DRESS, AND STABILIZE. OVERSEED PHASE I AREAS AS NECESSARY.
 - D. PERFORM FINAL PHASE EXCAVATION, DRESS, AND STABILIZE. OVERSEED PREVIOUSLY SEEDED AREAS AS NECESSARY.
- NOTE: ONCE EXCAVATION HAS BEGUN, THE OPERATION SHOULD BE CONTINUOUS FROM GRUBBING THROUGH THE COMPLETION OF TOPSOIL (IF REQUIRED) AND PERMANENT SEED AND MULCH. ANY INTERRUPTIONS IN THE OPERATION OR COMPLETING THE OPERATION OUT OF THE SEEDING SEASON WILL NECESSITATE THE APPLICATION OF TEMPORARY STABILIZATION.
- J. INCREMENTAL STABILIZATION OF EMBANKMENTS - FILL SLOPES
 - I. EMBANKMENTS SHALL BE CONSTRUCTED IN LIFTS AS PRESCRIBED ON THE PLANS.
 - II. SLOPES SHALL BE STABILIZED IMMEDIATELY WHEN THE VERTICAL HEIGHT OF THE MULTIPLE LIFTS REACHES 15', OR WHEN THE GRADING OPERATION CEASES AS PRESCRIBED IN THE PLANS.
 - III. AT THE END OF EACH DAY, TEMPORARY BERMS AND PIPE SLOPE DRAINS SHOULD BE CONSTRUCTED ALONG THE TOP EDGE OF THE EMBANKMENT TO INTERCEPT SURFACE RUNOFF AND CONVEY IT DOWN THE SLOPE IN A NON-EROSIVE MANNER TO A SEDIMENT TRAPPING DEVICE.
 - IV. CONSTRUCTION SEQUENCE: REFER TO FIGURE 4 (BELOW).
 - A. EXCAVATE AND STABILIZE ALL TEMPORARY SWALES, SIDE DITCHES, OR BERMS THAT WILL BE USED TO DIVERT RUNOFF AROUND THE FILL. CONSTRUCT SLOPE SILT FENCE ON LOW SIDE OF FILL AS SHOWN IN FIGURE 5, UNLESS OTHER METHODS SHOWN ON THE PLANS ADDRESS THIS AREA.
 - B. PLACE PHASE I EMBANKMENT, DRESS AND STABILIZE.
 - C. PLACE PHASE 2 EMBANKMENT, DRESS AND STABILIZE.
 - D. PLACE FINAL PHASE EMBANKMENT, DRESS AND STABILIZE. OVERSEED PREVIOUSLY SEEDED AREAS AS NECESSARY.
- NOTE: ONCE THE PLACEMENT OF FILL HAS BEGUN, THE OPERATION SHOULD BE CONTINUOUS FROM GRUBBING THROUGH THE COMPLETION OF SODDING (IF REQUIRED) AND PERMANENT SEED AND MULCH. ANY INTERRUPTIONS IN THE OPERATION OR COMPLETING THE OPERATION OUT OF THE SEEDING SEASON WILL NECESSITATE THE APPLICATION OF TEMPORARY STABILIZATION

PERMANENT SEEDING SUMMARY

SEED MIXTURE (HARDINESS ZONE ____7A____)					FERTILIZER RATE (10-20-20)			LIME RATE
FROM TABLE 26					N	P205	K20	
NO.	SPECIES	APPLICATION RATE (LB/AC)	SEEDING DATES	SEEDING DEPTHS				
1	TALL FESCUE (75%)	150	SPRING 3/1-5/15 FALL 8/15-10/15	1"	90 LB/AC	175 LB/AC	175 LB/AC	2 TONS/AC
	CANADA BLUEGRASS (10%)							
	KENTUCKY BLUEGRASS (10%)							
	REDTOP (5%)							

TEMPORARY SEEDING SUMMARY

SEED MIXTURE (HARDINESS ZONE ____7A____)					FERTILIZER RATE (10-10-10)		LIME RATE
FROM TABLE 26							
NO.	SPECIES	APPLICATION RATE (LB/AC)	SEEDING DATES	SEEDING DEPTHS			
	BARLEY OR RYE	150	2/1-11/30	1"	600 LB/ACRE		2 TONS/ACRE
	FOXTAIL MILLET						



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WILLIAM WINCHESTER ELEMENTARY
SCHOOL - PRE-K ADDITION

70 MONROE STREET,
WESTMINSTER, MD 21157
ELECTION DISTRICT 07
EXISTING/PROPOSED USE: ELEMENTARY SCHOOL

PROJECT NO.	841449
DATE:	FEBRUARY 24, 2025
	REVISIONS
DATE	DESCRIPTION
02/24/25	DD PRICING SET

EROSION AND
SEDIMENT CONTROL
NOTES

COUNTY FILE: S-24-0031
SHEET 15 OF 16

C-410

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LAWS OF THE STATE OF MARYLAND.

LICENSE NO. 31168

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**WILLIAM WINCHESTER ELEMENTARY
SCHOOL - PRE-K ADDITION**

70 MONROE STREET,
WESTMINSTER, MD 21157
ELECTION DISTRICT 07
EXISTING/PROPOSED USE

PROJECT NO: 641449	
DATE: FEBRUARY 24, 2025	
REVISIONS	
DATE	DESCRIPTION
02/24/25	DD PRICING SET

UTILITY PLAN

COUNTY FILE: S-24-0031
SHEET 16 OF 16

C-500

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