

SITE DATA

SITE ADDRESS: 1100 GIST ROAD, WESTMINSTER, MD 21157

OWNER/DEVELOPER: BOARD OF EDUCATION OF CARROLL COUNTY
125 NORTH COURT STREET
WESTMINSTER, MD 21157
WILLIAM CAINE
410-386-1817

PROPERTY REFERENCE: TAX MAP: 51
GRID: 6
PARCEL: 635
ELECTION DISTRICT: 07-005

PROPERTY LAND AREA: 46.42 ACRES

TOTAL DEVELOPED AREA: 2,022,055.20 SF OR 46.42 ACRES

PROPOSED DISTURBED AREA: 45,065 SF OR 1.03 ACRES

EXISTING/PROPOSED USE: ELEMENTARY SCHOOL/ELEMENTARY SCHOOL

PROPOSED ADDITION AREAS: 13,890 SF

ZONING: ZONE R-20,000 (RESIDENCE, SUBURBAN DISTRICT)

SETBACKS: FRONT: 150 FT
SIDE: 100 FT
REAR: 50 FT

PARKING LOT TABULATION: EXISTING: 133
PROPOSED: 133

STUDENT ENROLLMENT: CURRENT: 499
PROJECTED: 519

STAFF: CURRENT: 98
PROJECTED: 98

TRIP GENERATION: ADDITIONS ARE NOT INCREASING ENROLLMENT. NO ADDITIONAL TRIPS OR BUSES ARE PLANNED.

FLOODPLAIN INFO: THE SITE IS NOT LOCATED WITHIN THE 100 YEAR FLOODPLAIN AS DELINEATED ON FEMA FLOOD INSURANCE RATE MAP 24013C0043D. THE SITE IS LOCATED IN ZONE 'X' WHICH MEANS AN AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

LOCATION OF NEAREST WATER SUPPLY AVAILABLE FOR FIRE PROTECTION: THERE ARE TWO HYDRANTS ALONG THE EXISTING 8" WATER LINE, NEAR THE NORTH EAST CORNER AND THE SOUTH WEST CORNER OF THE SCHOOL. THE HYDRANT ON THE SOUTH WEST CORNER WILL BE RELOCATED FURTHER SOUTH DUE TO THE BUILDING ADDITION.

THE SITE IS IN COMPLIANCE WITH THE CODE OF PUBLIC LOCAL LAWS & ORDINANCES OF CARROLL COUNTY, MARYLAND PER CHAPTER 150 OF THE FOREST CONSERVATION ORDINANCE.

FINAL SITE DEVELOPMENT PLAN FOR FRIENDSHIP VALLEY ELEMENTARY SCHOOL 1100 GIST ROAD, WESTMINSTER, MD 21157

CARROLL COUNTY
SOIL CONSERVATION DISTRICT

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE CARROLL SOIL CONSERVATION DISTRICT

APPROVED CARROLL S.C.D. / DATE

CARROLL COUNTY
HEALTH DEPARTMENT

BY DATE

Community Water and/or sewerage systems are in conformance with the Carroll County Master Plan for Water and Sewer.

ENGINEER

I certify that this plan of Sediment Control is designed with my personal knowledge of the site condition and had been designed to the Standards and Specifications adopted by the Carroll Soil Conservation District.

Engineer/Date

OWNER/DEVELOPER CERTIFICATION

I/We certify that this plan of Soil Erosion & Sediment Control will be implemented to the fullest extent, and all structures will be installed to the design and specifications as spelled out in this plan and that any responsible personnel involved in construction of this project will have a certification of attendance at a Department of the the Environment approved training program for the control of soil erosion and sediment before beginning the project. I also authorize periodic on-site evaluation by the Carroll Soil Conservation District Personnel and cooperating agencies.

11/11/2024
DATE

DEVELOPER

PRINTED NAME OF DEVELOPER

DEVELOPER COMPANY NAME

DEVELOPER PHONE NUMBER

WATER RESOURCE NOTES

- THE PROPOSED PROJECT IS IN AN AQUIFER PROTECTION AREA AND A SURFACE WATER PROTECTION AREA, AND PART OF THE PROPERTY IS IN A WELLHEAD PROTECTION AREA.
- THERE WILL BE NO USE, TRANSFER, OR STORAGE OF REGULATED SUBSTANCES ON SITE.
- A PORTION OF THE PROJECT SITE IS LOCATED WITHIN THE TIER II CATCHMENT MORGAN RUN 1, WITH ASSIMILATIVE CAPACITY REMAINING.

CARROLL COUNTY PLANNING AND ZONING COMMISSION

BY

DATE

OWNER/DEVELOPER CERTIFICATION

I/We certify that all proposed work shown on these construction drawing(s) has been reviewed by me/us and that I/We fully understand what is necessary to accomplish this work and that the work will be conducted in strict accordance with these plans. I/We also understand that any changes to these plans will require an amended plan to be reviewed and approved by the Carroll County Zoning Commission before any change in the work is made.

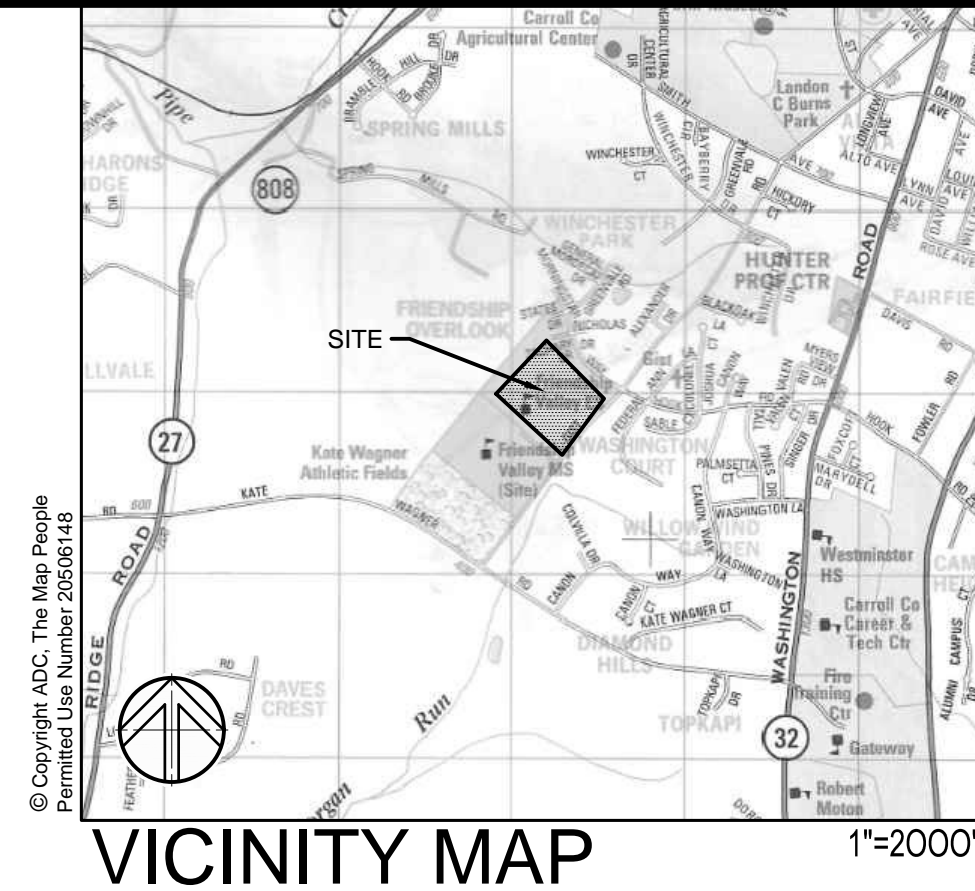
NAME(S) (PRINTED)

DATE

SIGNED

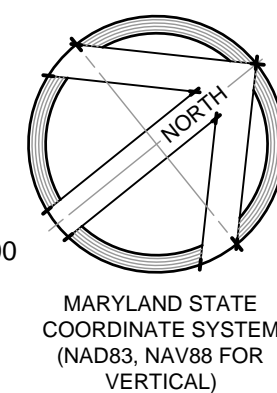
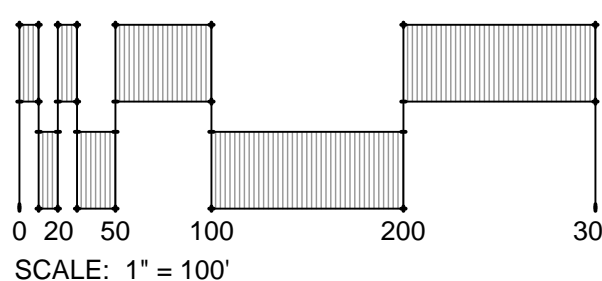
DATE

COUNTY FILE NUMBER:
S-23-0030



SHEET LIST TABLE

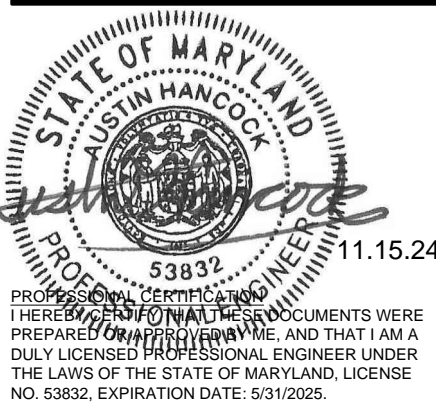
Sheet Number	Sheet Title
1	C001 Cover Sheet
2	C002 General Notes
3	C003 PreK-K Addition Building Elevation
4	C004 Pride Addition Building Elevation
5	C101 Existing Conditions and Demolition Plan
6	C111 Layout & Utility Plan
7	C121 Grading Plan
8	C131 Alternate Site Plan
9	C201 Site Details
10	C202 Site Details
11	C301 Storm Drain Profiles
12	C311 Water and Sewer Profiles
13	C401 Final Existing Sediment Control Plan
14	C411 Final Proposed Sediment Control Plan
15	C421 Final ESC DA Maps
16	C431 ESC Notes
17	C432 ESC Details and Notes
18	C501 Existing Conditions and Resource Mapping SWM Plan
19	C511 Proposed Conditions SWM Plan
20	C512 SWM ESD DA Map
21	C521 SWM Details & Notes
22	C522 SWM Test Pits
23	L101 Landscape Plan
24	L201 Landscape Details



MOSELEYARCHITECTS

1414 KEY HIGHWAY, SECOND FLOOR, BALTIMORE, MD 21230
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MOSELEYARCHITECTS.COM



PSC #06.038

FRIENDSHIP VALLEY ELEMENTARY SCHOOL PRE-K,
KINDERGARTEN & PRIDE SUITE ADDITIONS



CARROLL COUNTY PUBLIC SCHOOLS
1100 GIST ROAD, WESTMINSTER, MD 21157

PROJECT NO. 631374
DATE:
REVISIONS
DATE DESCRIPTION
9/18/24 CD PROGRESS SET
10/25/24 95% CD SET

COVER SHEET

C001

SHEET 1 OF 24

© SITE RESOURCES, INC. Z:\2323033-CPPS FRIENDSHIP VALLEY ES04-DWG\C001 COVER SHEET.DWG 1/11/2024 2:41 PM amh

GENERAL NOTES (THESE NOTES PERTAIN TO ALL CIVIL DRAWINGS)

- EXISTING INFORMATION AND CONDITIONS NOT GUARANTEED; VERIFY AND TEST PIT EXISTING UTILITIES: THE CORRECTNESS AND COMPLETENESS OF THE INFORMATION SHOWING EXISTING CONDITIONS IS NOT GUARANTEED. BEFORE BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL PERFORM THE FOLLOWING TASKS:
 - NOTIFY MISS UTILITY AT 1-800-257-7777, AND MAKE SURE THEY COMPLETE THE MARKING OF UTILITIES WITHIN THE LIMITS OF CONSTRUCTION AT LEAST 48 HOURS PRIOR TO INSTALLING SEDIMENT CONTROL MEASURES. MAINTAIN ALL MARKINGS THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL ALSO INCLUDE IN HIS BID PRICE MARKING OF ON-SITE UTILITIES THAT MIGHT NOT BE MARKED BY MISS UTILITY; THE CONTRACTOR SHALL EITHER MARK THESE ON-SITE UTILITIES HIMSELF OR BY SUBCONTRACTING WITH A PRIVATE ON-SITE UTILITY LOCATION COMPANY.
 - VERIFY THE GENERAL ACCURACY OF THE EXISTING CONDITIONS SHOWN ON THE SITE DRAWINGS BY VISUAL INSPECTION OF THE SURFACE OF THE SITE AND ALL EXISTING STRUCTURES, PAVING AND UTILITY APPURTENANCES VISIBLE THEREON;
 - WITH REGARD TO THE STRUCTURES & APPURTENANCES OBSERVED AS REQUIRED PER ITEM (B) ABOVE, DETERMINE THE TYPE, SIZE, LOCATION AND ELEVATION OF ALL THOSE EXISTING UTILITIES (INCLUDING BUT NOT LIMITED TO ALL STORM DRAINS, SANITARY LINES, WATER LINES, GAS LINES, STEAM LINES, ELECTRIC LINES, TELEPHONE LINES, AND COMMUNICATION DUCTS, AND ALL MANHOLES, INLETS, CLEAN-OUTS, VALVES, HANDHOLES, ETC. RELATED THERETO) WITHIN THE LIMITS OF CONSTRUCTION IN ORDER TO: (I) AVOID DAMAGING OR DISRUPTING SERVICE, AND (II) TO COORDINATE AND FACILITATE CONSTRUCTION OF PROPOSED UTILITIES AND OTHER IMPROVEMENTS. IN ADDITION TO THE CONTRACTOR'S VISUAL OBSERVATION AND THE UTILITY MARKING (AS REQUIRED ABOVE), THE CONTRACTOR SHALL SCHEDULE AND COMPLETE TEST PITTING OF ALL EXISTING UTILITIES (FOR THE PURPOSES SET FORTH ABOVE) AND SHALL DO SO IN A TIMELY MANNER IN ORDER TO ALLOW TIME FOR ANALYSIS AND REDESIGN BY SITE RESOURCES AND/OR OTHER CONSULTANTS, WITHOUT DELAYING THE PROJECT SCHEDULE.
 - IMMEDIATELY REPORT TO SITE RESOURCES, INC. THE RESULTS OF STEPS (A), (B) AND (C) WHICH MIGHT INDICATE ANY DISCREPANCY BETWEEN ACTUAL CONDITIONS AND THOSE SHOWN ON THE PLAN, AND ANY POTENTIAL CONFLICTS BETWEEN PROPOSED IMPROVEMENTS AND EXISTING CONDITION.

TEST PITTING DEFINED: FOR THE PURPOSES OF THIS CONTRACT, EXCAVATION OF UTILITY TRENCHES DOES NOT CONSTITUTE TEST PITTING. TEST PITTING IS A SEPARATE OPERATION COMPLETED AT LEAST SEVEN DAYS BEFORE UTILITY INSTALLATION IS SCHEDULED TO BEGIN. TEST PITTING MEANS EXCAVATION TO EXPOSE EXISTING UTILITIES IN TWO SITUATIONS: (I) WHERE PROPOSED IMPROVEMENTS CROSS EXISTING UTILITIES (PIPES, LINES, STRUCTURES, APPURTENANCES) AND; (II) WHERE PROPOSED UTILITIES ARE DESIGNED TO CONNECT TO EXISTING UTILITIES. TEST PITTING INCLUDES RECORDING THE TYPE, SIZE, LOCATION AND ELEVATION OF THE EXPOSED UTILITIES, AND FAXING AND MAILING THE RECORD TO SITE RESOURCES, INC. AND THE OWNER. THE RECORD MAY BE A LEGIBLE HAND-WRITTEN FIELD SKETCH.
- EXISTING AND PROPOSED GAS LINES, ELECTRIC LINES, TELEPHONE LINES, COMMUNICATION LINES AND OTHER UTILITIES: THESE DRAWINGS INCLUDE INFORMATION AND DESCRIPTIONS OF BALTIMORE GAS & ELECTRIC COMPANY'S (BGE) ELECTRIC AND/OR GAS UTILITIES LOCATED WITHIN THE GENERAL PROJECT AREA. LOCATIONS, DIMENSIONS, DEPTHS, AND OTHER DETAILS OF ANY SUCH UTILITIES MAY NOT BE AS ACTUALLY CONSTRUCTED, AND THE INFORMATION SHALL NOT BE RELIED UPON WITHOUT FIELD VERIFICATION BY TEST PITTING AS DEFINED ABOVE. EXCAVATORS MUST EMPLOY SAFE DIGGING PRACTICES WHEN APPROACHING BGE ELECTRIC AND/OR GAS UTILITIES AND COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS INCLUDING, BUT NOT LIMITED TO, THE LAW GOVERNING NOTIFICATION OF MISS UTILITY. NO REPRESENTATION, GUARANTEES, OR WARRANTIES EXPRESSED OR IMPLIED ARE MADE BY BGE OR SITE RESOURCES, INC. AS TO THE QUALITY, COMPLETENESS, OR ACCURACY OF THE BGE UTILITY INFORMATION, AND IN ACCEPTING THESE DRAWINGS, THE RECIPIENT EXPRESSLY AGREES THAT IT IS NOT RELYING ON THE ACCURACY OF THE SAME.
- EXISTING AND PROPOSED GAS LINES, STEAM LINES, ELECTRIC LINES, TELEPHONE LINES, COMMUNICATION DUCTS AND OTHER SUCH UTILITIES ARE NOT PART OF THE SCOPE OF WORK SHOWN ON THESE SITE PLANS AND SITE RESOURCES, INC. HAS NO RESPONSIBILITY FOR DESIGN, SPECIFICATION OR INSTALLATION OF SAID UTILITIES. TO THE EXTENT THAT SOME OR ALL OF SUCH UTILITIES (WHETHER EXISTING OR PROPOSED) APPEAR ON THE SITE DRAWINGS, IT IS PRESENTED ONLY FOR THE CONVENIENCE OF THE CONTRACTOR AND THE CORRECTNESS AND COMPLETENESS OF THE INFORMATION SHOWING THESE UTILITIES IS NOT GUARANTEED.
- COORDINATION BETWEEN PROPOSED UTILITIES: THE CONTRACTOR SHALL ADJUST THE LOCATION AND ELEVATION OF PROPOSED GAS LINES, ELECTRIC LINES, TELEPHONE LINES, COMMUNICATION LINES, AND WATER LINES AS NEEDED TO CONSTRUCT THE PROPOSED STORM DRAINS AND SANITARY SEWER WITH MINIMUM CLEARANCES. COORDINATE WITH THE MECHANICAL/ELECTRICAL DRAWINGS AND SPECIFICATIONS AND APPROPRIATE UTILITY COMPANY.
- RELOCATION OF EXISTING UTILITIES: IN THE EVENT THAT THE LOCATION OR ELEVATION OF EXISTING MINOR UNDERGROUND ELECTRIC LINES AND PHONE LINES CONFLICT WITH PROPOSED STORM DRAINS, SANITARY SEWER LINES OR WATER LINES, THE CONTRACTOR SHALL, WITH THE PERMISSION OF THE OWNER AND WITHOUT AN EXTRA COST TO THE PROJECT, ADJUST THESE LINES TO PERMIT INSTALLATION OF THE NEW UTILITIES. IN THE EVENT THAT ANY OTHER UTILITY IS RELOCATED TO ACCOMMODATE A NEW UTILITY, SAID RELOCATION SHALL BE AN EXTRA COST TO THE PROJECT, SUBJECT TO THE TERMS AND CONDITIONS OF THE CONSTRUCTION CONTRACT.
- UTILITIES TO REMAIN OPERATIONAL; ADJUSTMENT FOR FINAL GRADE: ALL EXISTING UTILITIES SHALL BE RETAINED UNLESS MARKED OTHERWISE. EXISTING UTILITIES NOT TO BE REMOVED ARE TO REMAIN OPERATIONAL AT ALL TIMES. EXISTING UTILITIES TO BE REPLACED OR RELOCATED SHALL REMAIN IN SERVICE UNTIL REPLACED OR RELOCATED UTILITIES ARE OPERATIONAL. ALL EXISTING UTILITY APPURTENANCES SHALL BE ADJUSTED FOR FINAL GRADE.
- UTILITY TRENCHING, BACKFILL AND COMPACTION: ALL TRENCHING FOR SANITARY SEWER, STORM DRAINS AND WATER MAINS SHALL BE DONE IN ACCORDANCE WITH THE LATEST STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION PUBLISHED BY CARROLL COUNTY AS AMENDED TO DATE.
- UTILITY CERTIFICATION: THE CONTRACTOR SHALL HAVE A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MARYLAND CERTIFY, ON A FORM PROVIDED BY THE OWNER, THAT ALL PROPOSED STORM DRAINS, SANITARY SEWERS AND WATER LINES SHOWN HEREON WERE INSTALLED IN ACCORDANCE WITH THESE PLANS AND CARROLL COUNTY SPECIFICATIONS. IF SAID CERTIFICATION IS NOT POSSIBLE BECAUSE THE UTILITIES WERE NOT INSTALLED IN ACCORDANCE WITH THESE PLANS AND CARROLL COUNTY SPECIFICATIONS, THEN THE OWNER HAS THE OPTION OF WAIVING, IN WRITING, THIS CERTIFICATION, IN WHOLE OR PART. IF THE OWNER DOES NOT ELECT TO WAIVE THE CERTIFICATION, THE CONTRACTOR SHALL ADJUST AND, IF NECESSARY, RECONSTRUCT THE UTILITIES TO BRING THEM IN CONFORMANCE WITH THESE PLANS AND CARROLL COUNTY SPECIFICATIONS.
- UTILITY CAPPING AND PROTECTION: ALL BUILDING CONNECTIONS SHALL BE CAPPED AT UPSTREAM END, 5 FEET FROM PROPOSED BUILDINGS, CAISSONS OR COLUMN FOOTINGS OR AS NOTED, AND SHALL BE PROTECTED BY PROVIDING THREE STAKES (THE HEIGHT BEING A MINIMUM OF 18 INCHES ABOVE PROPOSED GRADE) WITH HIGH VISIBILITY FLAGGING AROUND THE CAPPED END OF THE UTILITY.
- PROPOSED WATER LINES: PROPOSED WATER LINES SHALL HAVE A MINIMUM OF 4'-0" COVER FROM FINISHED GRADE, 1'-0" CLEARANCE FROM STORM DRAINS AND 1'-0" CLEARANCE FROM SANITARY SEWERS, UNLESS INDICATED OTHERWISE ON THESE CONSTRUCTION DRAWINGS. ALL WATER MAINS 3" OR LARGER SHALL BE CLASS 54 DIP MEETING AWWA C110/C153. ALL WATER LINES 2" AND SMALLER SHALL BE TYPE K COPPER TUBING MEETING THE MATERIAL, CHEMICAL, AND MECHANICAL REQUIREMENTS OF ASTM B-88.
- PROPOSED STORM DRAINS: ALL STORM DRAINS 12 INCHES AND LARGER SHALL BE CLASS IV REINFORCED CONCRETE CULVERT PIPE (RCCP) UNLESS INDICATED OTHERWISE ON THESE CONSTRUCTION DRAWINGS.
- PROPOSED SANITARY SEWERS: ALL PIPE AND FITTINGS FOR SANITARY HOUSE CONNECTION SHALL BE POLYVINYL CHLORIDE (PVC) MEETING MATERIAL REQUIREMENTS OF ASTM D3034, (SDR-35 OR SDR-26 AS APPROPRIATE FOR DEPTH OF BURY) UNLESS INDICATED OTHERWISE ON THESE CONSTRUCTION DRAWINGS. JOINTS SHALL BE ELASTOMERIC GASKETED.
- STANDARD CONSTRUCTION SPECIFICATIONS AND DETAILS: UNLESS OTHERWISE NOTED OR DETAILED ON THE DRAWINGS, ALL CONSTRUCTION SHALL FOLLOW THE LATEST STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION PUBLISHED BY CARROLL COUNTY AS AMENDED TO DATE.

- SEDIMENT CONTROL: THE CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL UTILITIES TO AVOID CONSTRUCTION PROBLEMS/CONFLICTS WITH SEDIMENT AND EROSION CONTROL MEASURES. ANY DISTURBANCE TO SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REPAIRED AT THE END OF EACH WORKING DAY. CONTRACTOR SHALL, WITHOUT EXTRA COST TO THE PROJECT, REPAIR AND MAINTAIN EXISTING SEDIMENT CONTROL DEVICES UNTIL ALL AREAS WITHIN LIMITS OF CONSTRUCTION ARE STABILIZED. WITH THE APPROVAL OF SEDIMENT CONTROL INSPECTOR, ALL SEDIMENT CONTROL DEVICES SHALL BE REMOVED AND AREAS RESTORED AND STABILIZED. ALL SEDIMENT CONTROL MEASURES REFERRED TO ON THESE PLANS SHALL BE IN ACCORDANCE WITH THE PUBLICATION ENTITLED 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
 - DISTURBED AREAS: ALL AREAS DISTURBED BY THE CONTRACTOR DURING OR PRIOR TO CONSTRUCTION, NOT DESIGNATED TO RECEIVE PAVING, MULCH OR SOLID SOD SHALL BE FINE GRADED, SEEDED AND MULCHED IN ACCORDANCE WITH THE PERMANENT SEEDING NOTES AND SPECIFICATIONS SHOWN ON THE SEDIMENT CONTROL DRAWINGS.
 - REPAIR AND REPLACEMENT OF DAMAGE CAUSED BY CONTRACTOR AND SUBCONTRACTORS: IN THE EVENT THAT THE CONTRACTOR OR ANY OF HIS SUBCONTRACTORS DAMAGE ANY EXISTING CURB, GUTTER, PAVING, UTILITIES, SIDEWALKS, TREES, SHRUBS, LAWNS, OR ANY OTHER EXISTING CONDITIONS (NOT INDICATED TO BE DEMOLISHED), OR ANY NEWLY INSTALLED PROPOSED IMPROVEMENT, THE GENERAL CONTRACTOR SHALL REPAIR AND REPLACE SAID DAMAGE TO OWNER'S SATISFACTION, AT GENERAL CONTRACTOR'S SOLE COST AND EXPENSE.
 - BENCHMARKS: SEE EXISTING CONDITIONS AND DEMOLITION PLAN.
 - ELEVATION AND LABELING: ALL SPOT GRADE ELEVATIONS IN ROADWAYS AND PARKING LOTS ARE FOR BOTTOM OF CURB UNLESS OTHERWISE NOTED. ELEVATIONS ON HARD SURFACES (ROADS, WALKS, WALLS, STEPS, MANHOLES, INLETS, ETC.) ARE LABELED TO THE HUNDREDTH OF A FOOT (E.G. 245.45). ELEVATIONS ON PROPOSED LAWN AND PLANTING AREAS ARE LABELED TO THE TENTH OF A FOOT (E.G. 245.5).
 - DIMENSIONS: UNLESS OTHERWISE NOTED ON THE DRAWING, ALL DIMENSIONS SHOWN ON THE SITE DRAWINGS FOLLOW THESE CONVENTIONS:
 - DIMENSIONS TO A BUILDING OR RETAINING WALL ARE TO THE FACE OF THE WALL;
 - DIMENSIONS TO A CURB ARE TO THE FACE (NOT THE BACK) OF THE CURB;
 - DIMENSIONS TO A FENCE ARE TO THE CENTERLINE OF THE FENCE;
 - DIMENSIONS FOR SIDEWALKS ABUTTING A CURB ARE FROM THE FACE OF CURB TO THE BACK EDGE OF THE WALK;
 - DIMENSIONS FOR OTHER SIDEWALKS OR OPEN PAVING SECTIONS ARE MEASURED TO THE EDGE OF PAVING;
 - DIMENSIONS TO A MANHOLE, INLET, CLEANOUT, PIPE BEND, VALVE, FIRE HYDRANT OR OTHER UTILITY APPURTENANCE ARE TO THE CENTER OF THE STRUCTURE;
 - DIMENSIONS FOR STEPS ARE TO THE OUTER EDGE OF THE STAIRCASE AND THE NOSE OF THE TOP OR BOTTOM STEP.
 - LAYOUT OF SEDIMENT CONTROL MEASURES AND PLANT MATERIAL SHALL BE SCALED.
 - GRADING: IT IS THE INTENT OF THE GRADING DESIGN TO ACHIEVE POSITIVE DRAINAGE AND AESTHETICALLY PLEASING VERTICAL CURVES AND LINES. TRANSITIONS BETWEEN EXISTING AND PROPOSED PAVEMENT SHALL BE SMOOTH AND JOINTS FLUSH. UNLESS OTHERWISE EXPRESSLY NOTED ON THE PLAN (BY ARROW WITH THE PERCENT SLOPE LABELED), ALL PROPOSED BITUMINOUS PAVING SHALL HAVE A SLOPE OF AT LEAST 2 PERCENT AND ALL CONCRETE SHALL HAVE A MINIMUM SLOPE OF 1.5 PERCENT IN THE DIRECTION INDICATED BY PROPOSED CONTOURS. UNPAVED AREAS SHALL HAVE A MINIMUM SLOPE OF 2 PERCENT AND A MAXIMUM SLOPE OF 2:1. FINAL GRADING SHALL ACHIEVE POSITIVE SURFACE DRAINAGE AWAY FROM BUILDINGS AND TOWARD DRAINAGE FACILITIES (SWALES, GUTTERS, INLETS, ETC.).
- ROUND TOP AND BOTTOM OF SLOPES.

CORRECT METHOD

INCORRECT METHOD
- COMPACTION: ALL EARTH FILL MATERIAL UNDER SLABS, FOOTINGS AND PAVED AREAS SHALL BE PLACED IN 8" LOOSE LAYERS AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D 698. ALL OTHER FILL SHALL BE COMPACTED TO 90%.
 - HEADINGS: THE HEADINGS CONTAINED IN THESE GENERAL NOTES ARE FOR THE CONVENIENCE OF THE READER ONLY AND SHALL NOT LIMIT THE RESPONSIBILITY OF THE CONTRACTOR. IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH NORMALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR FROM COMPLETING SUCH WORK.
 - ABBREVIATIONS:

PROP	PROPOSED*	DIP	DUCTILE IRON PIPE
EX	EXISTING	PVC	POLYVINYL CHLORIDE PIPE
ASPH	ASPHALT	HDPE	HIGH DENSITY POLYETHYLENE PIPE
CONC	CONCRETE	CMF	CORRUGATED METAL PIPE
M OR MH	MANHOLE	RCCP	REINFORCED CONCRETE PIPE
SD	STORM DRAIN	C&G	CONCRETE CURB & GUTTER
I	INLET	INV	INVERT ELEVATION
SAN	SANITARY SEWER	FDC	FIRE DEPARTMENT CONNECTION
FF	FINISHED FLOOR ELEVATION	FH	FIRE HYDRANT
BF	BASEMENT FLOOR ELEVATION		
TC	TOP OF CURB	BC	BOTTOM OF CURB
TS	TOP OF STEP	BS	BOTTOM OF STEP
TW	TOP OF WALL	BW	BOTTOM OF WALL
PC	POINT OF CURVATURE	PS	PARKING SPACE
PT	POINT OF TANGENCY	HC	HANDICAPPED PARKING SPACE
PI	POINT OF INTERSECTION	TYP	TYPICAL
AGIP	AT-GRADE INLET PROTECTION	CIP	CURB INLET PROTECTION
COIP	COMBINATION INLET PROTECTION	ED	EARTH DIKE
FB	FILTER BAG	IB	INLET BLOCKING
RPS	REMOVABLE PUMPING STATION	SCE	STABILIZED CONSTRUCTION ENTRANCE
SFD	SUPER FENCE DIVERSION	SIP	STANDARD INLET PROTECTION
SP	SUMP PIT	SSF	SUPER SILT FENCE
TS	TEMPORARY SWALE	TSOS	TEMPORARY STONE OUTLET STRUCTURE

*PROPOSED MEANS WORK INCLUDED IN THE BASE CONTRACT UNLESS ACCOMPANIED BY THE PHRASES "N.I.C." OR "BY OTHERS."
 - NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES): IF REQUIRED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT ALL THE PROVISIONS AND REQUIREMENTS OF THE NPDES PERMIT. THE PERMIT HAS BEEN APPLIED FOR BY THE OWNER, BUT NO LAND DISTURBANCE IS PERMITTED UNTIL THE NPDES PERMIT HAS BEEN ISSUED.
 - ALL SIDEWALKS, PATHS AND OTHER PAVED AREAS SHALL BE FINISH GRADED WITH A MAXIMUM LONGITUDINAL SLOPE OF 5% (1:20) AND A MAXIMUM CROSS SLOPE OF 2% (1:50) UNLESS OTHERWISE NOTED.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL SITE ELEMENTS ARE CONSTRUCTED IN ACCORDANCE WITH THE ADA 2010 STANDARDS FOR ACCESSIBLE DESIGN OR MOST CURRENT.
 - TO THE EXTENT THAT QUANTITIES MAY BE LISTED ON THESE PLANS, THEY ARE FOR PERMITTING PURPOSES ONLY AND NOT FOR BIDDING PURPOSES. CONTRACTOR SHALL FORM HIS OWN CONCLUSIONS ABOUT THE QUANTITIES OF ALL MATERIALS AND OPERATIONS NECESSARY TO COMPLETE THE PROJECT.
 - SWM AS-BUILT NOTE: IT IS THE CONTRACTOR'S RESPONSIBILITY, ON BEHALF OF THE OWNER, TO ENGAGE A LICENSED PROFESSIONAL ENGINEER TO CERTIFY THE STORMWATER MANAGEMENT FACILITIES AND TO PREPARE, SUBMIT AND PROCESS AS-BUILT DRAWINGS WITH THE AUTHORITIES HAVING JURISDICTION.

INSPECTION SEQUENCE NOTES

- CONTRACTOR SHALL NOTIFY THE CARROLL COUNTY BUREAU OF PERMITS AND INSPECTIONS AT 410-386-2674, AT LEAST ONE DAY PRIOR TO BEGINNING ANY WORK.
- SITE COMPLIANCE INSPECTIONS ARE REQUIRED AT THE FOLLOWING STAGES DURING CONSTRUCTION:
 - PROPOSED STRUCTURES STAKED OUT IN PROPER LOCATIONS AS SHOWN ON THESE PLANS.
 - PROPOSED FOUNDATIONS INSTALLED FOR ALL BUILDINGS SHOWN ON THESE PLANS.
 - SUB-GRADE ESTABLISHED FOR ALL DRIVES, PARKING LOTS, AND SURROUNDING GRADING.
 - COMPLETION OF ALL DRIVES, PARKING LOTS, AND SURROUNDING GRADING.
 - COMPLETION OF ALL WORKS SHOWN ON PLANS.
- CONTRACTOR SHALL NOTIFY CARROLL COUNTY BUREAU OF RESOURCE MANAGEMENT, ENVIRONMENTAL INSPECTION SERVICES DIVISION AT 410-386-2210 PRIOR TO BEGINNING ANY WORK. ALL FOREST CONSERVATION PLAN DEVICES MUST BE IN PLACE PRIOR TO ANY CONSTRUCTION.
- FINAL LANDSCAPING INSPECTION SHALL BE ARRANGED THROUGH BUREAU OF RESOURCE MANAGEMENT ENVIRONMENTAL INSPECTION SERVICES DIVISION AT 410-386-2210 BY THE CONTRACTOR/DEVELOPER OR AGENT. WRITTEN APPROVAL FROM THE LANDSCAPE REVIEW SPECIALIST, BUREAU OF RESOURCE MANAGEMENT, MUST BE OBTAINED FOR ANY DEVIATIONS FROM THE LANDSCAPING OR FOREST CONSERVATION PLANS FOR MODIFICATIONS IN THE PLANT MATERIALS.
- THE CONTRACTOR SHALL NOT PROCEED TO THE NEXT PHASE OF CONSTRUCTION UNTIL GIVEN APPROVAL OF PRIOR PHASES.



PSC #06.038

FRIENDSHIP VALLEY ELEMENTARY SCHOOL PRE-K, KINDERGARTEN & PRIDE SUITE ADDITIONS



CARROLL COUNTY PUBLIC SCHOOLS
1100 GIST ROAD, WESTMINSTER, MD 21157

PROJECT NO. 631374	
DATE:	
REVISIONS	
DATE	DESCRIPTION
9/18/24	CD PROGRESS SET
10/25/24	95% CD SET

GENERAL NOTES

COUNTY FILE NUMBER:
S-23-0030

C002

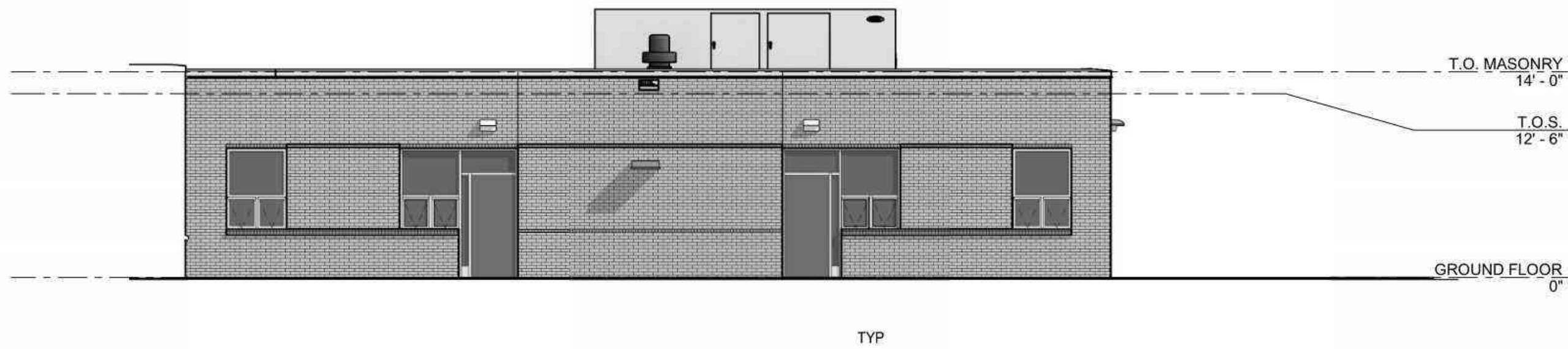
SHEET 2 OF 24

MOSELEYARCHITECTS

1414 KEY HIGHWAY, SECOND FLOOR, BALTIMORE, MD 21230
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MOSELEYARCHITECTS.COM

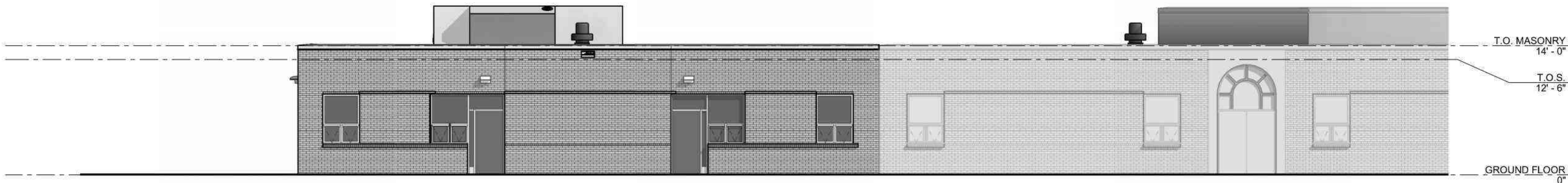
© SITE RESOURCES, INC. Z:\23\230333-CCPS FRIENDSHIP VALLEY ES04-DWG\001 COVER SHEET.DWG 11/11/2024 2:41 PM amh



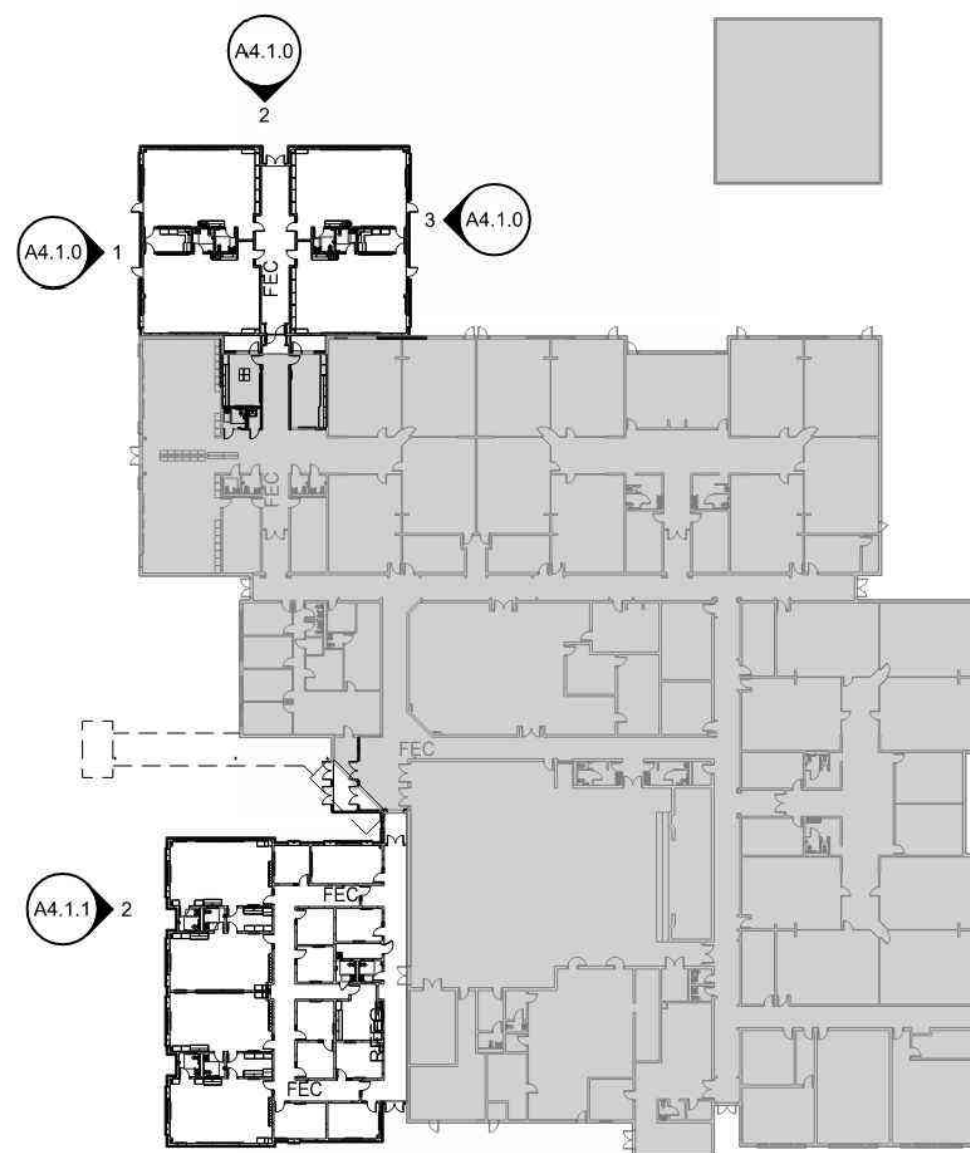
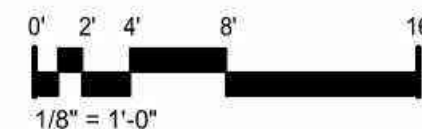
3 CLASSROOM ADDITION - NORTHWEST ELEVATION
TYP | A4.1.0 1/8" = 1'-0"



2 CLASSROOM ADDITION - SOUTHWEST ELEVATION
TYP | A4.1.0 1/8" = 1'-0"



1 CLASSROOM ADDITION - SOUTHEAST ELEVATION
TYP | A4.1.0 1/8" = 1'-0"



KEY PLAN

COUNTY FILE NUMBER:
S-23-0030

GENERAL NOTES

- ALL BRICK IS TO BE BRICK COLOR 1 UNO.
- EIFS COLOR AT ADDITIONS TO MATCH ETR EIFS COLOR UNO.
- MASONRY BOND PATTERN SHALL BE RUNNING BOND UNLESS OTHERWISE INDICATED. REFER TO DETAILS FOR MASONRY PATTERNS, BONDING, SPECIAL SHAPES AND MORTAR COLOR PATTERNS.
- MASONRY EXPOSED TO VIEW AT FINISH GRADE SHALL MATCH VENEER (NO EXPOSED CMU). REFER TO STRUCTURAL DRAWINGS FOR TOP OF FOOTING ELEVATIONS.
- PROVIDE SEALANT AT ALL INTERSECTIONS OF DISSIMILAR MATERIALS IN ACCORDANCE WITH THE SPECIFICATIONS. ALL EXTERIOR SEALANTS TO BE A CUSTOM COLOR SELECTED BY THE ARCHITECT. MORE THAN ONE SEALANT COLOR MAY BE SELECTED FOR USE ALONG THE HEIGHT OF THE SAME JOINT TO MATCH ADJOINING MASONRY OR MORTAR.
- ALL EXPOSED EXTERIOR METAL TO BE UNPAINTED GALVANIZED UNLESS OTHERWISE INDICATED.
- REFER TO SHEET A.02 FOR TYPICAL EXTERIOR CONTROL JOINT DETAILS AND NOTES.
- REFER TO A3 SERIES DRAWINGS FOR WINDOW, DOOR AND LOUVER SCHEDULES AND INFORMATION.
- ALL THROUGH-WALL OPENINGS SUCH AS VENTS AND LOUVERS SHALL MATCH COLOR OF SURROUNDING BUILDING MATERIAL, TYP.
- REFER TO FIRE PROTECTION, PLUMBING AND CIVIL DRAWINGS FOR FIRE DEPARTMENT CONNECTION LOCATION & UTILITIES.

BUILDING ELEVATION KEYNOTES

REPRESENTED BY [n]
APPLIES TO DRAWINGS A4.1 - A4.3

- BRICK SOLDIER COURSE HEADER. MATCH ETR DESIGN HEIGHT.
- BRICK ROWLOCK SILL.
- BRICK HEADER BOND. MATCH ETR DESIGN HEIGHT.
- 1" BRICK REVEAL.
- THRU-WALL SCUPPER.
- WALL PACK.
- ALUMINUM DOOR, COLOR: BLUE. COLOR TO MATCH ETR EXTERIOR BLUE DOORS.
- WINDOW FRAME COLOR: ALUMINUM (TYP.).
- EIFS REVEAL. PAINT EIFS ARCH BLUE. BLUE COLOR TO MATCH ETR BLUE EXTERIOR FRAMES.
- ROOF LADDER.
- ALTERNATE #07B: CURTAIN WALL AS SCHEDULED. FRAME COLOR: ALUMINUM.
- ALTERNATE #07B: POST SUPPORTED CANOPY.
- ALTERNATE #07B: METAL PANEL COLOR TO MATCH CURTAIN WALL FRAME COLOR.
- ALTERNATE #07B: STANDING SEAM METAL ROOF.
- ALTERNATE #09: COLOR ARCHITECTURAL WINDOW FILM. ARCHITECT TO SELECT FROM MANUFACTURER'S FULL RANGE OF COLORS.
- EIFS COLOR 1.
- EIFS COLOR 2.
- CONTROL JOINT
- AIR HANDLING UNIT AS SCHEDULED. REFER TO MECHANICAL DWGS.

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PSC #06.038

FRIENDSHIP VALLEY ELEMENTARY SCHOOL PRE-K,
KINDERGARTEN & PRIDE SUITE ADDITIONS



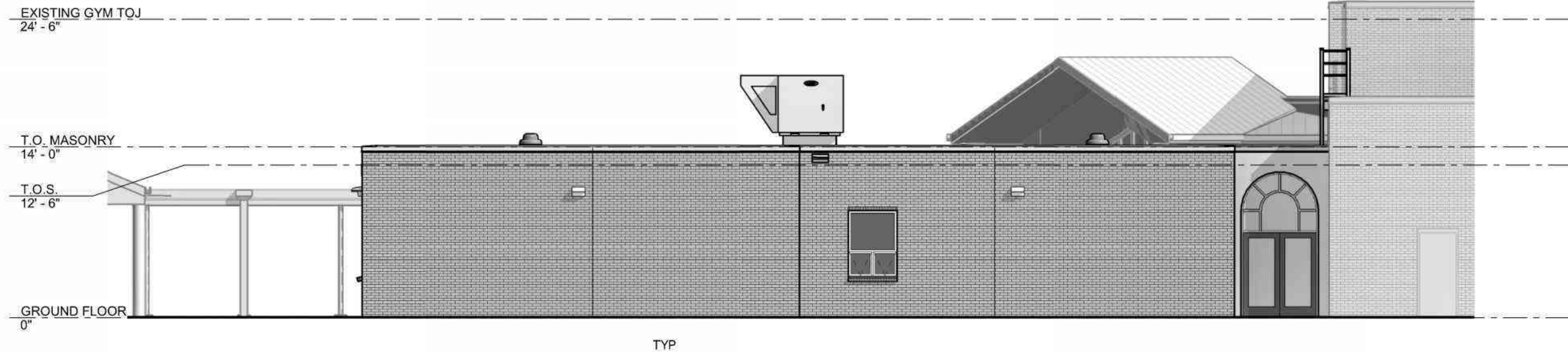
CARROLL COUNTY PUBLIC SCHOOLS
1100 GIST ROAD, WESTMINSTER, MD 21157

PROJECT NO. 631374	DATE:
REVISIONS	
DATE	DESCRIPTION
9/18/24	CD PROGRESS SET
10/25/24	95% CD SET

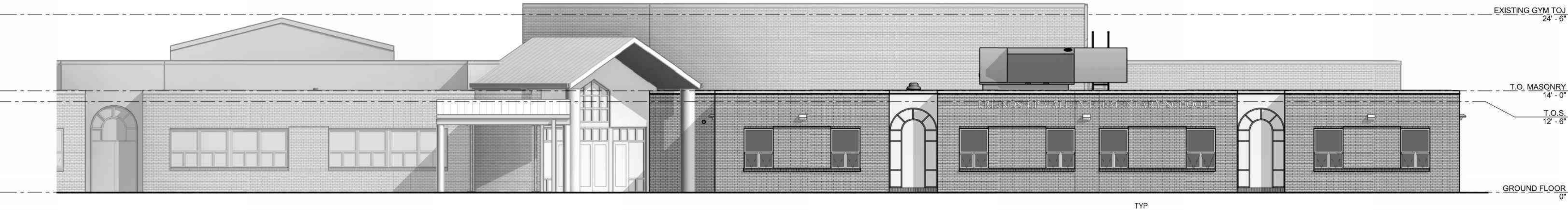
PREK-K ADDITION
BUILDING
ELEVATION

C003

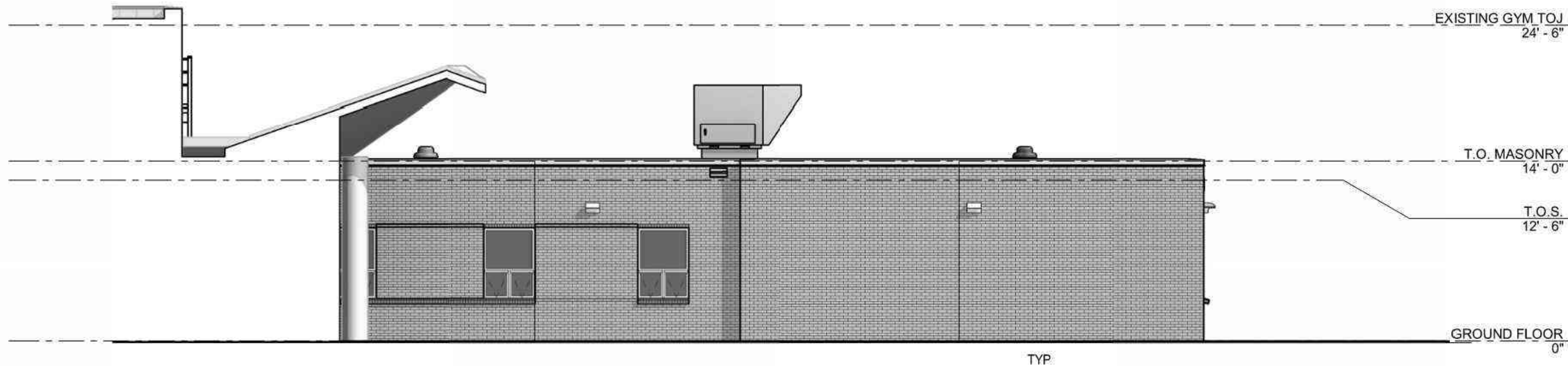
SHEET 3 OF 24



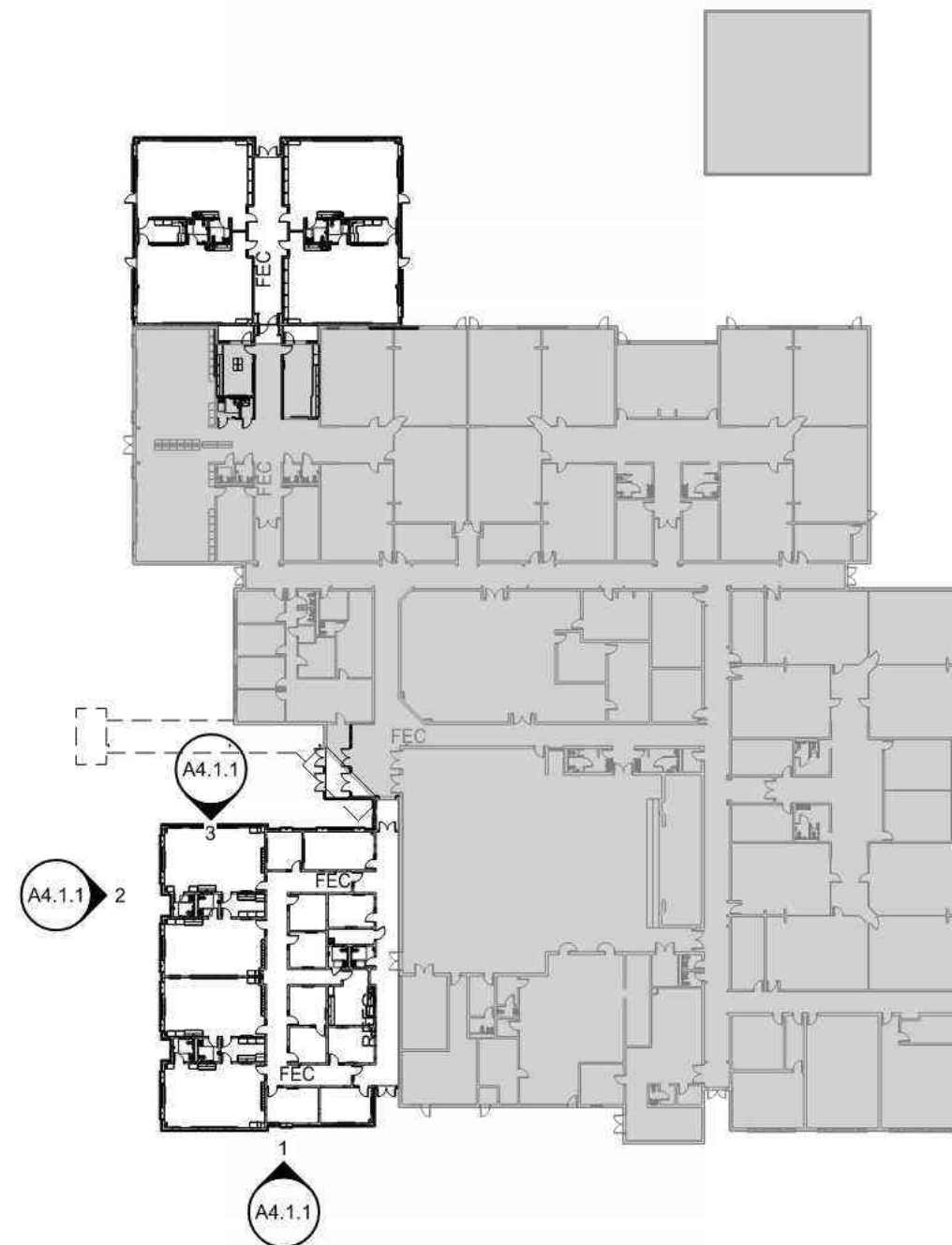
1 PRIDE ADDITION - NORTHEAST ELEVATION
TYP A4.1.1 1/8" = 1'-0"



2 PRIDE ADDITION - SOUTHEAST ELEVATION
TYP A4.1.1 1/8" = 1'-0"



3 PRIDE ADDITION - SOUTHWEST ELEVATION
TYP A4.1.1 1/8" = 1'-0"



KEY PLAN

GENERAL NOTES

- A. ALL BRICK IS TO BE BRICK COLOR 1 UNO.
- B. EIFS COLOR AT ADDITIONS TO MATCH ETR EIFS COLOR UNO.
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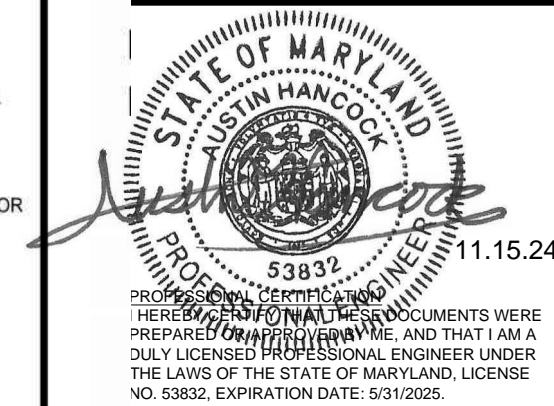
BUILDING ELEVATION KEYNOTES

REPRESENTED BY **1**
APPLIES TO DRAWINGS A4.1 - A4.3

- 1 BRICK SOLDIER COURSE HEADER. MATCH ETR DESIGN HEIGHT.
- 2 BRICK ROWLOCK SILL.
- 3 BRICK HEADER BOND. MATCH ETR DESIGN HEIGHT.
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- 6 WALL PACK.
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- 15 ALTERNATE #09: COLOR ARCHITECTURAL WINDOW FILM. ARCHITECT TO SELECT FROM MANUFACTURER'S FULL RANGE OF COLORS.
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- 17 EIFS COLOR 2.
- 18 CONTROL JOINT
- 19 AIR HANDLING UNIT AS SCHEDULED. REFER TO MECHANICAL DWGS.

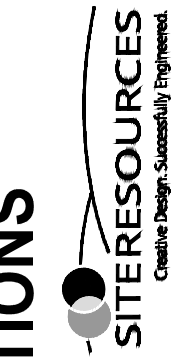
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PSC #06.038

**FRIENDSHIP VALLEY ELEMENTARY SCHOOL PRE-K,
KINDERGARTEN & PRIDE SUITE ADDITIONS**



CARROLL COUNTY PUBLIC SCHOOLS
1100 GIST ROAD, WESTMINSTER, MD 21157

PROJECT NO: 631374	
DATE:	
REVISIONS	
DATE	DESCRIPTION
9/18/24	CD PROGRESS SET
10/25/24	95% CD SET

COUNTY FILE NUMBER:
S-23-0030

**PRIDE ADDITION
BUILDING
ELEVATION**

C004
SHEET 4 OF 24

STORM DRAIN STRUCTURE DATA:				
1	SD MANHOLE	TOP	770.46	
	18" RCP	INVERT IN	760.61	NW
	15" RCP	INVERT IN	765.76	N
	18" RCP	INVERT OUT	760.43	SW
2	SD INLET	TOP	770.59	
	4" PL	INVERT IN	768.00	W
	15" RCP	INVERT OUT	766.71	S
3	SD INLET	TOP	769.41	
	6" PL	INVERT IN	766.86	SW
	6" PL	INVERT IN	766.15	W
	6" PL	INVERT IN	767.23	NW
	15" RCP	INVERT IN	765.80	N
	15" RCP	INVERT OUT	762.32	SE
4	SD INLET	TOP	768.38	
	15" RCP	INVERT OUT	764.46	W
5	SD MANHOLE	TOP	768.86	
	15" RCP	INVERT IN	761.80	NW
	18" RCP	INVERT IN	759.24	NE
	15" RCP	INVERT IN	763.84	E
	18" RCP	INVERT OUT	758.88	SW
6	SD MANHOLE	TOP	770.29	
	12" PL	INVERT IN	763.28	NW
	18" RCP	INVERT IN	758.18	NE
	18" RCP	INVERT OUT	757.97	SW
7	SD MANHOLE	TOP	768.29	

UNABLE TO OPEN TO OBTAIN INVERTS				
8	SD MANHOLE	TOP	763.27	
	21" RCP	INVERT IN	757.17	SW
	21" RCP	INVERT IN	755.38	NW
	24" RCP	INVERT OUT	755.04	SE
9	SD INLET	TOP	770.03	
	15" RCP	INVERT IN	766.24	NE
	15" RCP	INVERT OUT	766.16	S
10	SD INLET	TOP	770.06	
	15" RCP	INVERT IN	766.11	N
	15" RCP	INVERT OUT	765.77	SE
11	SD INLET	TOP	770.80	
	12" RCP	INVERT IN	764.25	SW
	12" RCP	INVERT OUT	764.19	NE
12	SD INLET	TOP	770.82	
	15" RCP	INVERT IN	765.35	NW
STRUCTURE SURCHARGED WITH WATER. NO ADDITIONAL PIPES VISIBLE.				

SANITARY STRUCTURE DATA:				
A	SS MANHOLE	TOP	770.26	
	8" PL	INVERT IN	760.93	SW
	8" PL	INVERT OUT	760.81	NE
B	SS MANHOLE	TOP	771.74	
	8" PL	INVERT IN	758.57	SW
	8" PL	INVERT IN	758.71	NW
	8" PL	INVERT OUT	758.55	E

SURVEY NOTES

COORDINATES SHOWN HEREON ARE BASED ON THE MARYLAND COORDINATE SYSTEM, NAD 83-2011, AS ESTABLISHED BY GPS OBSERVATION. THE COMBINED FACTOR IS 0.99997699.

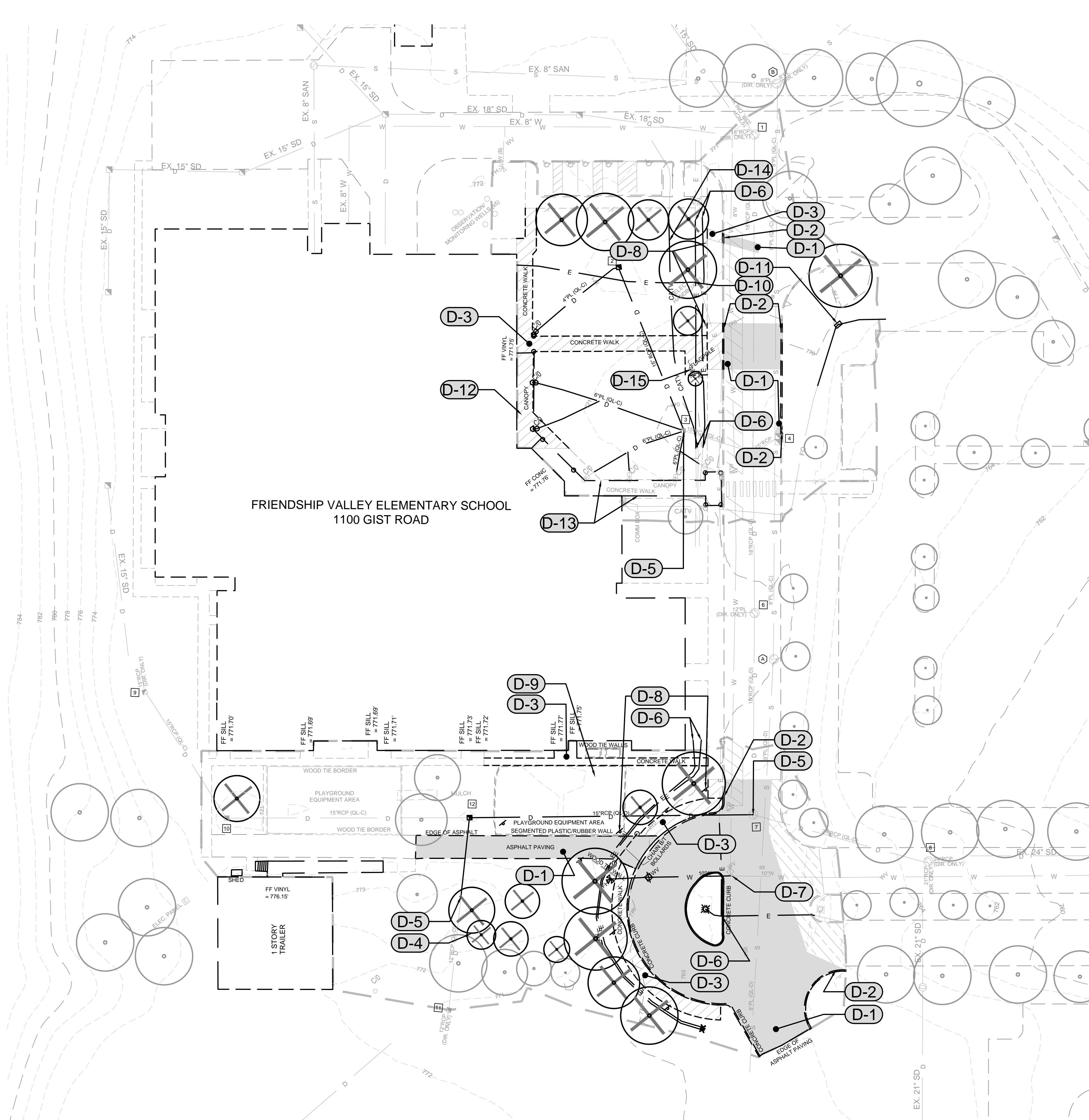
ELEVATIONS AND CONTOURS SHOWN HEREON ARE BASED ON THE NAVD-88 VERTICAL DATUM.

ALL VISIBLE UTILITIES HAVE BEEN LOCATED. NO COMPARISON TO ANY PLANS HAS BEEN MADE. PIPE SIZE, TYPE AND DIRECTION MUST BE VERIFIED BEFORE CONSTRUCTION.

SITE CONTROL COORDINATE TABLE				
PT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	683874.4340	1311078.5690	767.88	TR B+C
3	683938.7520	1310827.2670	774.07	TR B+C SET
10	684120.0030	1311259.6090	769.42	TR NS
11	684157.7050	1310906.7020	771.04	TR NS
102	684254.9300	1311360.4430	770.94	TR B+C SET GPS
2404	684043.1920	1311057.0030	772.16	TR NS FLY

PHASING NOTE

ALL WORK AND PHASING SHALL BE COORDINATED WITH CCPS TO ENSURE THAT CONSTRUCTION DOES NOT DISRUPT NORMAL OPERATIONS OF EXISTING ELEMENTARY SCHOOL.



DEMOLITION NOTES

- D-1

SAW CUT AT LIMITS SHOWN AND REMOVE ASPHALT PAVING AND BASE MATERIAL.
- D-2

SAW CUT AT NEAREST JOIN BEYOND LIMITS SHOWN AND REMOVE CURB AND BASE MATERIAL.
- D-3

REMOVE EXISTING CONCRETE SIDEWALK TO THE NEAREST JOINT. SAW CUT CLEANLY AT LIMIT OF REMOVAL.
- D-4

REMOVE TREES, STUMPS AND MAJOR ROOTS. REPLACE WITH APPROVED COMPACTED FILL. (TYP.)
- D-5

LIMIT OF STORM DRAIN REMOVAL.
- D-6

DEACTIVATION OF BGE PRIMARY SERVICE NOT IN CONTRACT AND WILL BE COORDINATED BY CCPS. REMOVE REMNANTS OF SERVICE AS NECESSARY FOR CONSTRUCTION.
- D-7

LIMIT OF WATER REMOVAL.
- D-8

SALVAGE SIGN AND STORE ON SITE FOR REINSTALLATION PER OWNER'S INSTRUCTION.
- D-9

REMOVE PLAYGROUND, EQUIPMENT AREA, AND ALL ASSOCIATED SURFACING, BORDERS, AND BASE MATERIAL.
- D-10

REMOVE CONDUIT FOR SITE LIGHTING TO NEAREST HANDBOX. CONTRACTOR SHALL COORDINATE WITH CCPS.
- D-11

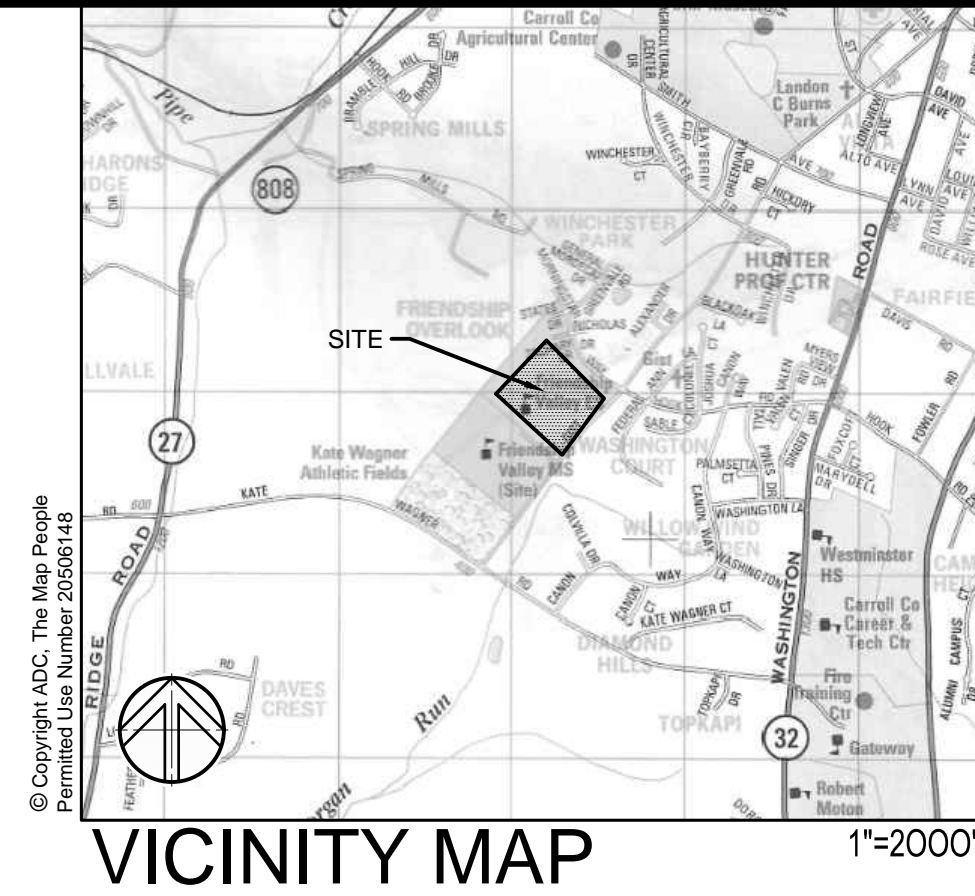
REMOVE FIBER OPTIC LINE AND HANDBOX AS REQUIRED FOR RELOCATION. CONTRACTOR SHALL COORDINATE WITH CCPS.
- D-12

REMOVE CANOPY AS SHOWN ON ARCHITECTURAL PLANS.
- D-13

PROTECT EXISTING CANOPY TO REMAIN.
- D-14

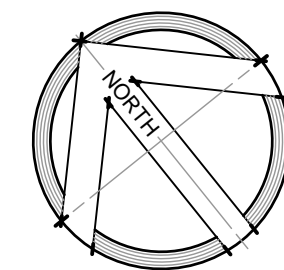
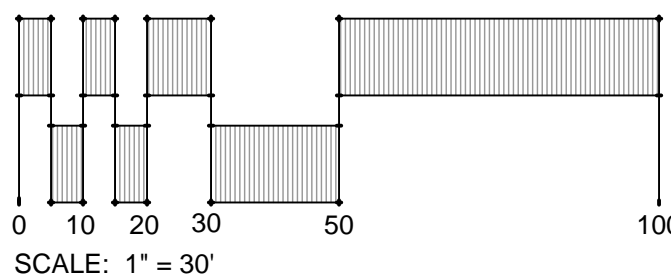
REMOVE INACTIVE CATV LINE AS REQUIRED FOR CONSTRUCTION.
- D-15

REMOVE FLAG POLE AND FOUNDATION. REPLACE WITH APPROVED COMPACTED FILL.



LEGEND

- PROPERTY LINE
- TOPO SURVEY LIMITS
- EXISTING BUILDING TO REMAIN
- EXISTING WALK TO REMAIN
- EXISTING WALK TO BE REMOVED
- EXISTING ROAD TO REMAIN
- EXISTING CURB TO REMAIN
- EXISTING CURB TO BE REMOVED
- EXISTING ASPHALT PAVING TO BE REMOVED
- EXISTING CONCRETE PAVING TO BE REMOVED
- EXISTING ASPHALT PAVING TO BE MILLED
- EXISTING FLAGPOLE TO BE REMOVED
- EXISTING SIGN TO BE REMOVED
- EXISTING TREES TO REMAIN
- EXISTING TREES TO BE REMOVED
- EXISTING STORM DRAIN TO REMAIN
- EXISTING STORM DRAIN TO BE REMOVED
- EXISTING WATER TO REMAIN
- EXISTING WATER TO BE REMOVED
- EXISTING SANITARY SEWER TO REMAIN
- EXISTING ELECTRIC TO REMAIN
- EXISTING ELECTRIC TO BE REMOVED
- EXISTING LIGHTING TO REMAIN
- EXISTING LIGHTING TO BE REMOVED
- EXISTING CABLE TV TO REMAIN
- EXISTING CABLE TV TO BE REMOVED
- EXISTING FIBER OPTIC TO REMAIN
- EXISTING FIBER OPTIC TO BE REMOVED
- EXISTING TELEPHONE TO REMAIN
- EXISTING CONTOURS

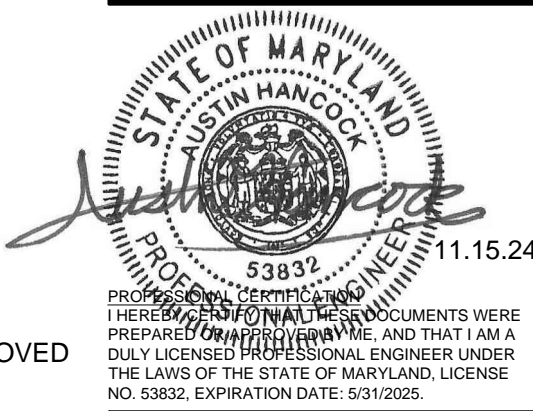


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FRIENDSHIP VALLEY ELEMENTARY SCHOOL PRE-K, KINDERGARTEN & PRIDE SUITE ADDITIONS



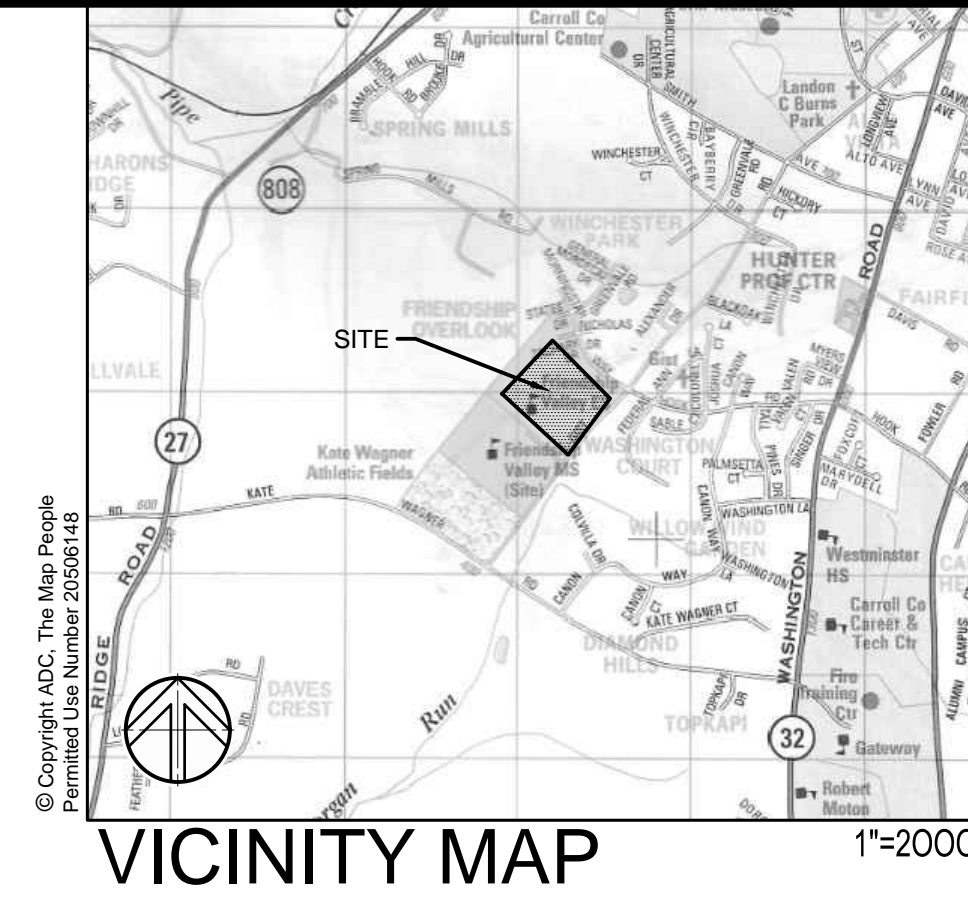
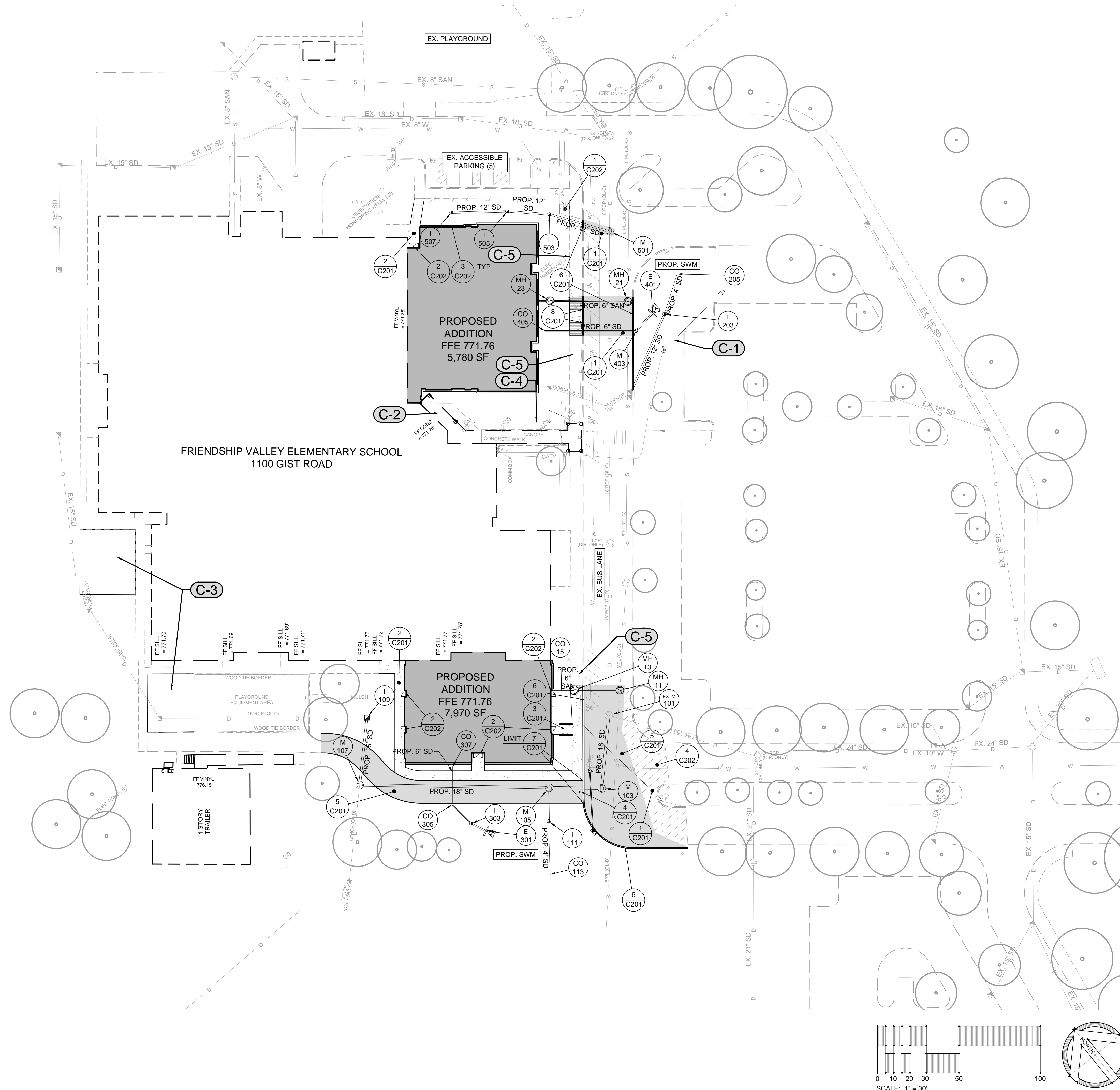
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PROJECT NO: 631374	
DATE:	
	REVISIONS
DATE	DESCRIPTION
9/18/24	CD PROGRESS SET
10/25/24	95% CD SET

EXISTING CONDITIONS & DEMOLITION PLAN

C101

SHEET 5 OF 24



LEGEND	
	PROPERTY LINE
	EXISTING BUILDING
	EXISTING WALK
	EXISTING ROAD
	EXISTING CURB
	EXISTING TREES
	EXISTING SHRUBS
	EXISTING STORM DRAIN
	EXISTING WATER
	EXISTING SANITARY SEWER
	EXISTING TELEPHONE
	EXISTING ELECTRIC
	EXISTING OVERHEAD ELECTRIC
	EXISTING LIGHTING
	PROPOSED BUILDING
	PROPOSED BUILDING OVERHANG
	PROPOSED CONCRETE WALK
	PROPOSED BITUMINOUS PAVING
	PROPOSED BITUMINOUS MILL & OVERLAY
	PROPOSED CURB
	PROPOSED SIGN
	PROPOSED FLAGPOLE
	PROPOSED STORM DRAIN
	PROPOSED WATER
	PROPOSED SANITARY SEWER

- CONSTRUCTION NOTES**
- C-1** REROUTE EXISTING FIBER OPTIC. CONTRACTOR SHALL COORDINATE WITH CCPS.
 - C-2** SEE DRAWING C131 FOR ALTERNATE ENTRANCE CONDITIONS.
 - C-3** PROPOSED REPLACEMENT PLAYGROUND AREAS. CONTRACTOR SHALL COORDINATE WITH CCPS. CONTRACTOR SHALL ENSURE ANY FOOTINGS DO NOT CONFLICT WITH EXISTING UTILITIES.
 - C-4** PROVIDE PVC PIPING AND FITTINGS TO CONNECT EXISTING CANOPY DRAINAGE INTO EXISTING INLET. PIPING SHALL HAVE A MINIMUM 1% SLOPE AND 2' COVER.
 - C-5** EXISTING SIDEWALK & CURB TO REMAIN SHALL BE PROTECTED AND REPLACED IF DAMAGED.



PSC #06.038

FRIENDSHIP VALLEY ELEMENTARY SCHOOL PRE-K, KINDERGARTEN & PRIDE SUITE ADDITIONS

CARROLL COUNTY PUBLIC SCHOOLS

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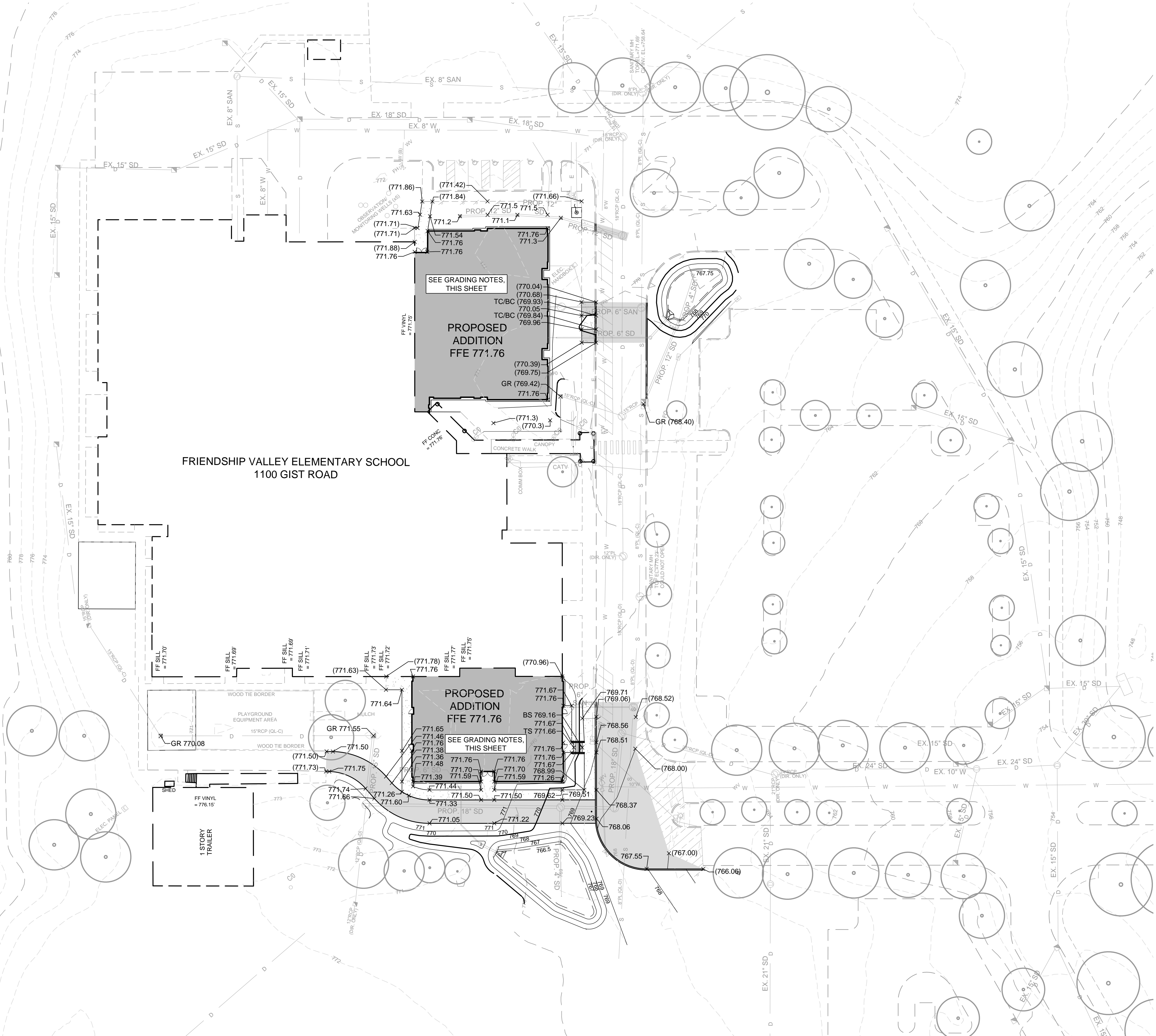
PROJECT NO.: 631374	
DATE:	
	REVISIONS
DATE	DESCRIPTION
9/18/24	CD PROGRESS SET
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COUNTY FILE NUMBER:
S-23-0030

LAYOUT & UTILITY PLAN

C111

SHEET 6 OF 24



LEGEND

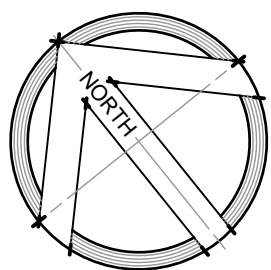
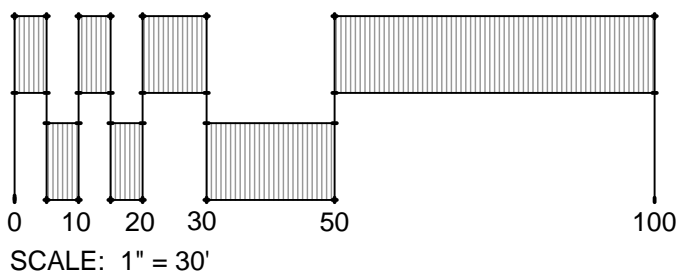
- PROPERTY LINE
- EXISTING BUILDING
- EXISTING WALK
- EXISTING ROAD
- EXISTING CURB
- EXISTING TREES
- EXISTING SHRUBS
- EXISTING STORM DRAIN
- EXISTING WATER
- EXISTING SANITARY SEWER
- EXISTING TELEPHONE
- EXISTING ELECTRIC
- EXISTING OVERHEAD ELECTRIC
- EXISTING LIGHTING
- EXISTING CONTOURS
- PROPOSED BUILDING
- PROPOSED BUILDING OVERHANG
- PROPOSED SIDEWALK
- PROPOSED BITUMINOUS PAVING
- PROPOSED CURB
- PROPOSED FLAGPOLE
- PROPOSED SIGN
- PROPOSED STORM DRAIN
- PROPOSED WATER
- PROPOSED SANITARY SEWER
- PROPOSED CONTOURS

GRADING NOTES

- 1) AS PART OF THE BASE BID, THE CONTRACTOR SHALL EXCAVATE TWO AND A HALF FEET (2.5') BELOW EXISTING GRADES AND DISPOSE OF UNSATISFACTORY SOILS ON-SITE IN A LOCATION DETERMINED BY THE OWNER'S REPRESENTATIVE. THIS EXCAVATION SHALL ALSO EXTEND FIVE FEET (5') OUTWARD THE PERIMETER OF THE BUILDING ADDITION.
- 2) MEANS AND METHODS FOR TRANSPORTING AND DISPOSING UNSATISFACTORY SOILS, AND ROCK IF ENCOUNTERED, SHALL BE IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLANS FOR THIS PROJECT, AS APPROVED IN THE FIELD BY THE GRADING AND SEDIMENT CONTROL INSPECTOR.
- 3) THE GEOTECHNICAL ENGINEER SHALL MONITOR THE PROGRESS OF THE EXCAVATION, AND SHOULD EXCAVATION OPERATIONS ENCOUNTER SATISFACTORY SOILS, THE GEOTECHNICAL ENGINEER MAY TERMINATE EXCAVATION IN THOSE APPLICABLE AREAS.
- 4) THE CONTRACTOR SHALL PREPARE AND SUBMIT WRITTEN RECORDS SUBSTANTIATING THE QUANTITY IN CUBIC YARDS (C.Y.) OF UNSATISFACTORY SOILS REMOVED AND DISPOSED ON-SITE, AND THE QUANTITY IN CUBIC YARDS (C.Y.) OF SATISFACTORY SOILS IMPORTED TO THE PROJECT SITE USED TO REPLACE UNSATISFACTORY SOILS, BASED UPON THE UNIT PRICES THE CONTRACTOR SUBMITTED IN THE BID FORM.
- 5) IF SATISFACTORY SOILS ARE ENCOUNTERED IN THE AREA DESIGNATED IN NOTE #1 ABOVE FOR THE BASE BID, THE OWNER SHALL BE CREDITED, BASED UPON THE BID FORM UNIT PRICES, FOR THE TOTAL VOLUME OF EXCAVATION NOT PERFORMED FOR THE REMOVAL AND ON-SITE DISPOSAL OF UNSATISFACTORY SOILS.

GENERAL NOTES:

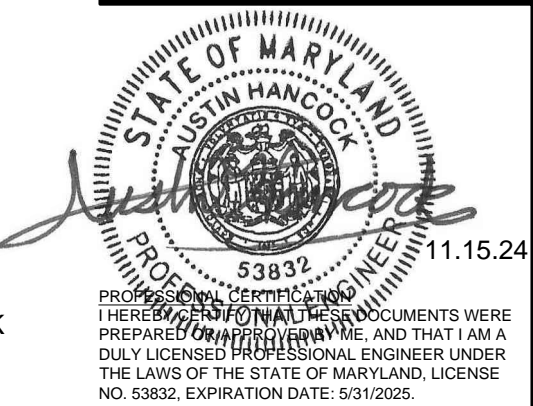
1. UNLESS OTHERWISE NOTED, SPOT ELEVATIONS AT CURBS ARE FOR BOTTOM OF CURB.



COUNTY FILE NUMBER:
S-23-0030

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FRIENDSHIP VALLEY ELEMENTARY SCHOOL PRE-K,
KINDERGARTEN & PRIDE SUITE ADDITIONS

SITERESOURCES
Creating High-Quality Imagery

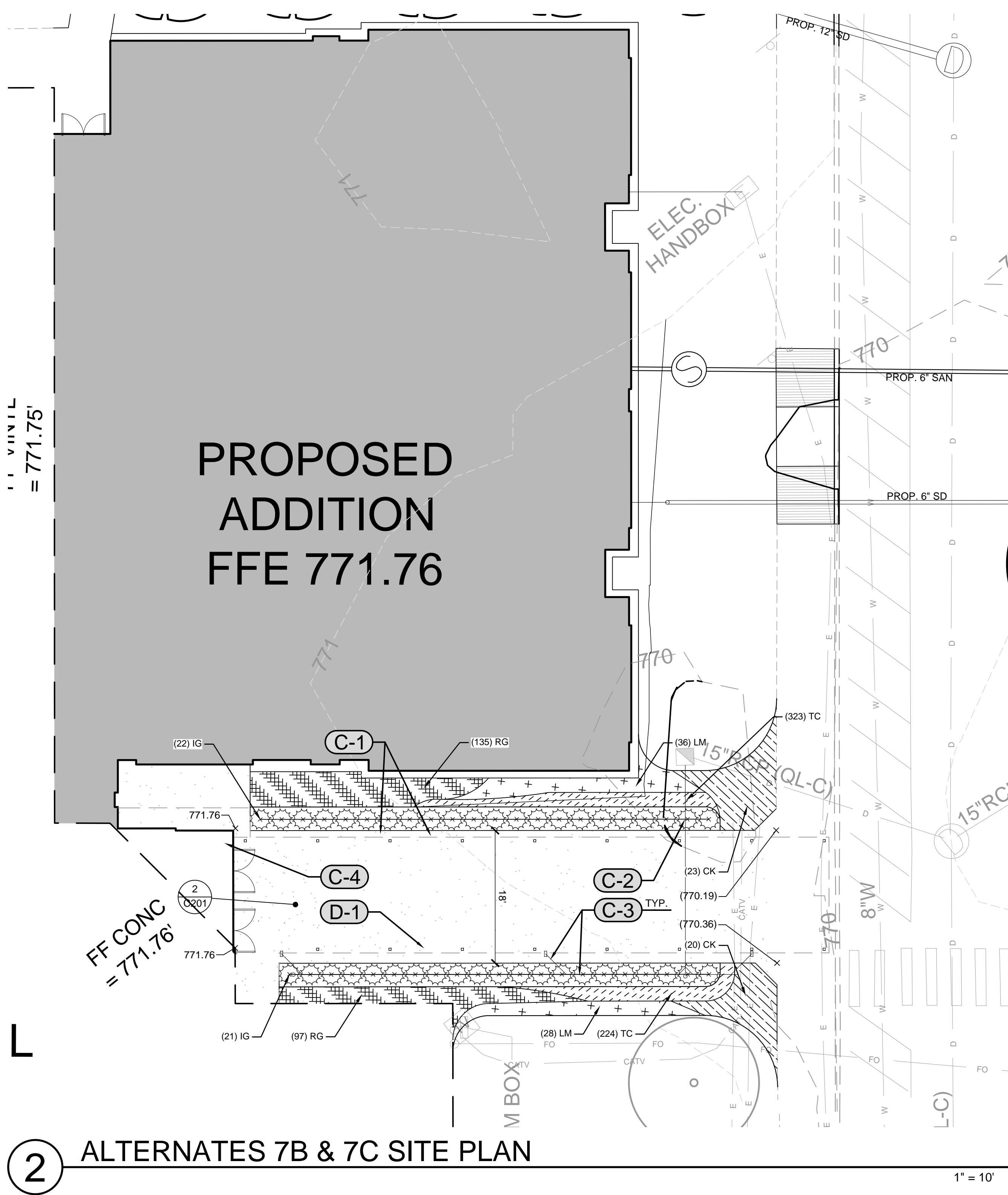
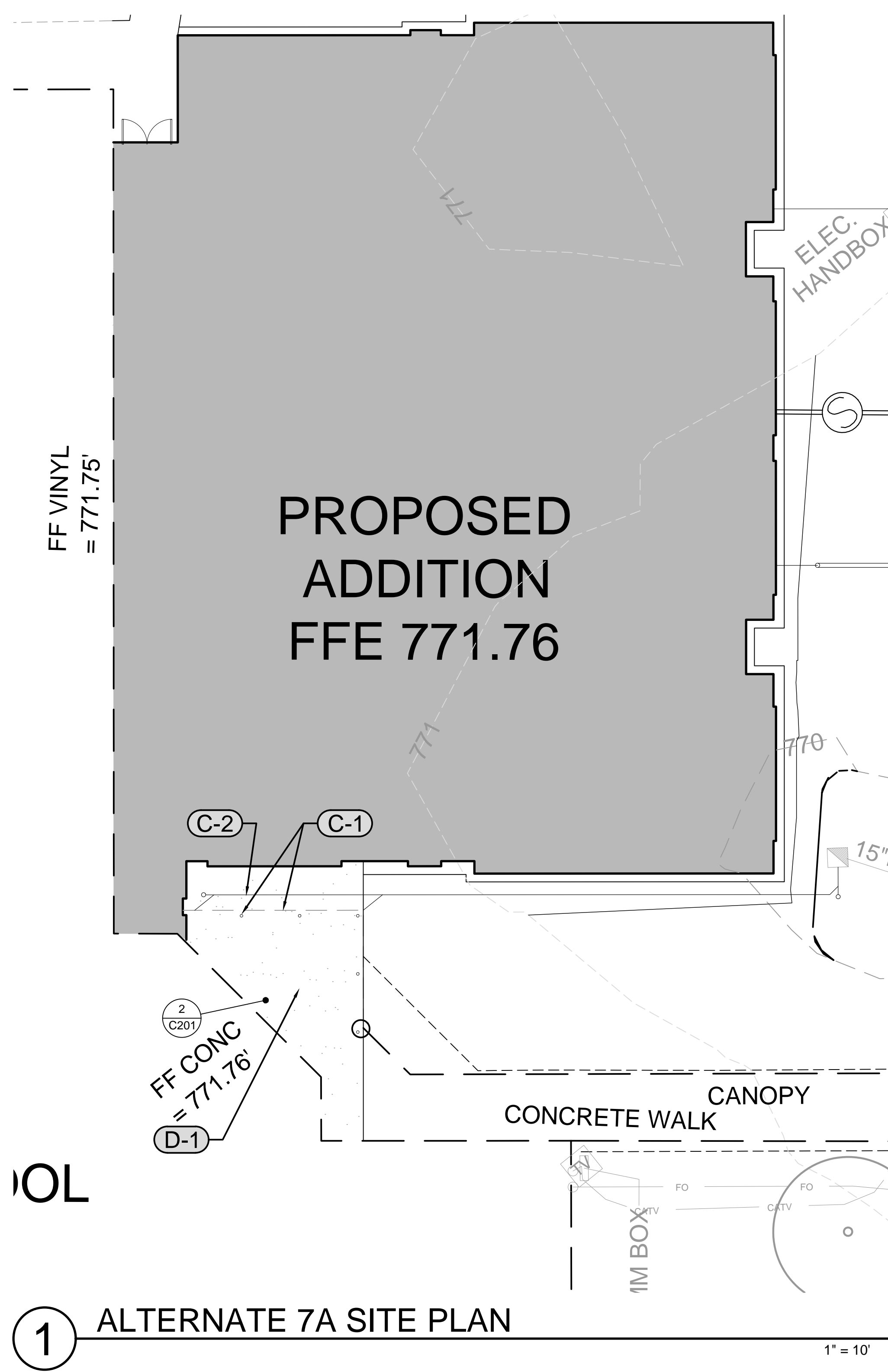
CARROLL COUNTY PUBLIC SCHOOLS
1100 GIST ROAD, WESTMINSTER, MD 21157

PROJECT NO. 631374	DATE:	REVISIONS
DATE	DESCRIPTION	
9/18/24	CD PROGRESS SET	
10/25/24	95% CD SET	

GRADING PLAN

C121

SHEET 7 OF 24



DEMOLITION NOTES

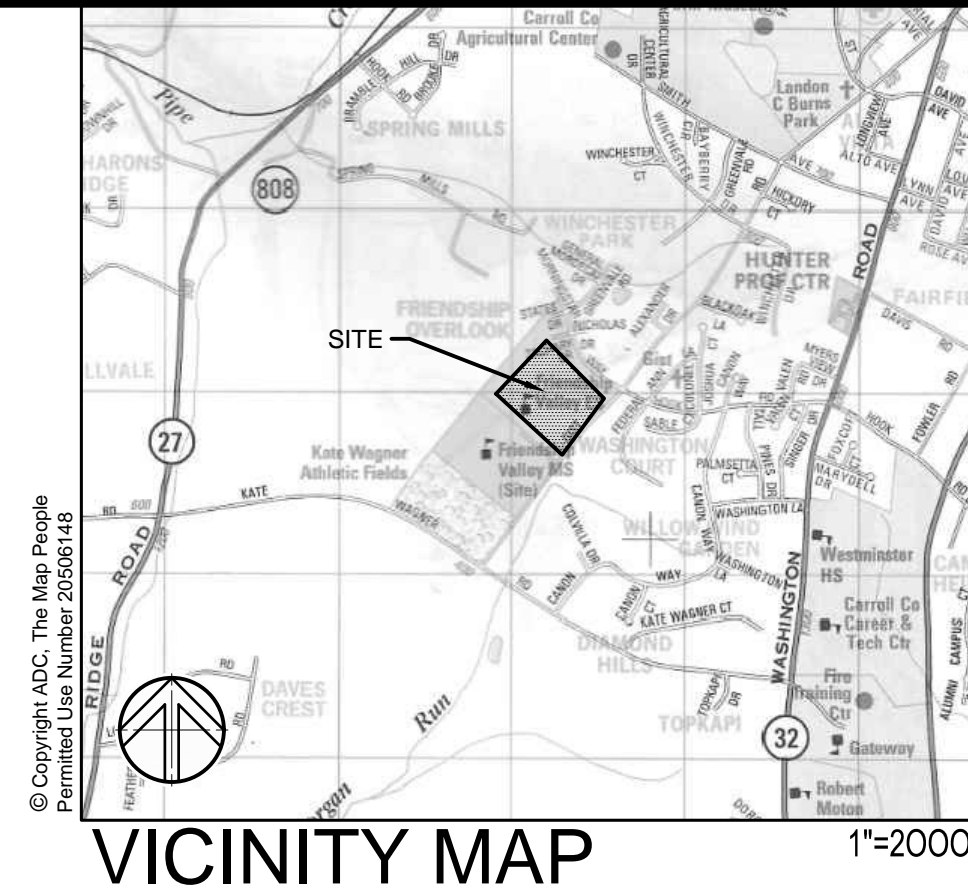
- D-1** REMOVE EXISTING WALK AND CANOPY. REFER TO ARCH PLANS FOR CANOPY REMOVAL.

CONSTRUCTION NOTES

- C-1** PROPOSED CANOPY AND COLUMNS FOR ALTERNATE 7A & 7C. SEE ARCH PLANS AND SPECIFICATIONS FOR DETAILS.
- C-2** PROVIDE PVC PIPING AND FITTINGS TO CONNECT ALTERNATE CANOPY (7A & 7C) DRAINAGE INTO EXISTING INLET. PIPING SHALL HAVE A MINIMUM 1% SLOPE AND 2' COVER.
- C-3** ALTERNATE PLANTINGS WILL ONLY BE INSTALLED IF CANOPY ALTERNATE (7C) IS ACCEPTED.
- C-4** PROPOSED VESTIBULE FOR ALTERNATE 7B. SEE ARCH PLANS AND SPECIFICATIONS FOR DETAILS.

ALTERNATE ADDITIONAL PLANTING

CODE	QTY	BOTANICAL / COMMON NAME	SIZE	SPACING	REMARKS
SHRUBS					
IG	43	ILEX GLABRA 'SMNIGAB17' / GEM BOX® INKBERRY HOLLY	18" HT / CONT.	AS SHOWN	FULLY BRANCHED; FULL / HEAVY; 5 CANE MINIMUM
PERENNIALS, GRASSES, & GROUNDCOVERS					
CK	45	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER' / KARL FOERSTER FEATHER REED GRASS	1 GAL. CONT.	24" O.C.	FULLY ROOTED CONTAINER
LM	64	LIRIOPE MUSCARI 'BIG BLUE' / BIG BLUE LILYTURF	1 GAL. CONT.	18" O.C.	FULLY ROOTED CONTAINER
RG	232	RUDBECKIA FULGIDA SULLIVANTII 'GOLDSTURM' / GOLDSTURM SULLIVANTI BLACK EYED SUSAN	1 GAL. CONT.	12" O.C.	FULLY ROOTED CONTAINER
TC	508	THYMUS PRAECOX 'COCCINEUS' / RED CREEPING THYME	1 GAL. CONT.	6" O.C.	FULLY ROOTED CONTAINER



LEGEND

- PROPERTY LINE
- EXISTING BUILDING
- EXISTING WALK
- EXISTING ROAD
- EXISTING CURB
- EXISTING TREES
- EXISTING SHRUBS
- EXISTING STORM DRAIN
- EXISTING WATER
- EXISTING SANITARY SEWER
- EXISTING TELEPHONE
- EXISTING ELECTRIC
- EXISTING OVERHEAD ELECTRIC
- EXISTING LIGHTING
- EXISTING CONTOURS
- PROPOSED BUILDING
- PROPOSED BUILDING OVERHANG
- PROPOSED SIDEWALK
- PROPOSED BITUMINOUS PAVING
- PROPOSED CURB
- PROPOSED FLAGPOLE
- PROPOSED STORM DRAIN
- PROPOSED WATER
- PROPOSED SANITARY SEWER
- PROPOSED SHRUBS
- PROPOSED PERENNIALS, GROUNDCOVERS & SEEDING



PSC #06.038

FRIENDSHIP VALLEY ELEMENTARY SCHOOL PRE-K, KINDERGARTEN & PRIDE SUITE ADDITIONS

SITERESOURCES

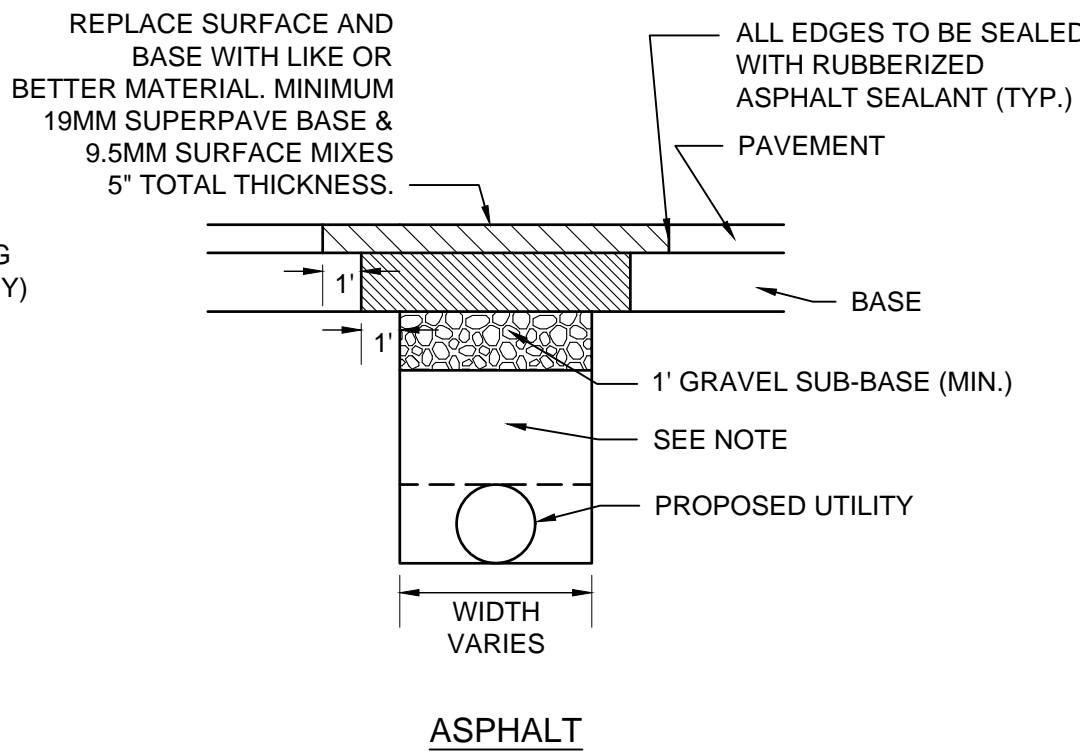
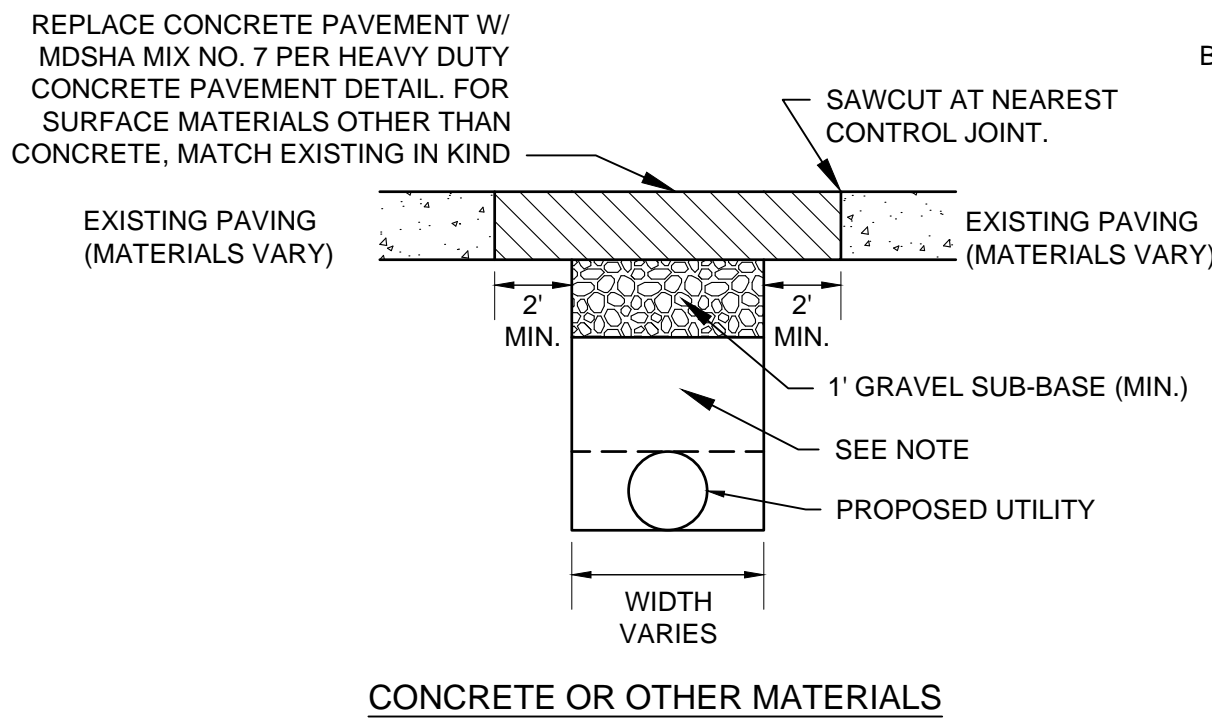
CARROLL COUNTY PUBLIC SCHOOLS
1100 GIST ROAD, WESTMINSTER, MD 21157

PROJECT NO: 631374	
DATE:	
DATE	REVISIONS
9/18/24	CD PROGRESS SET
10/25/24	95% CD SET

ALTERNATE SITE PLAN

C131

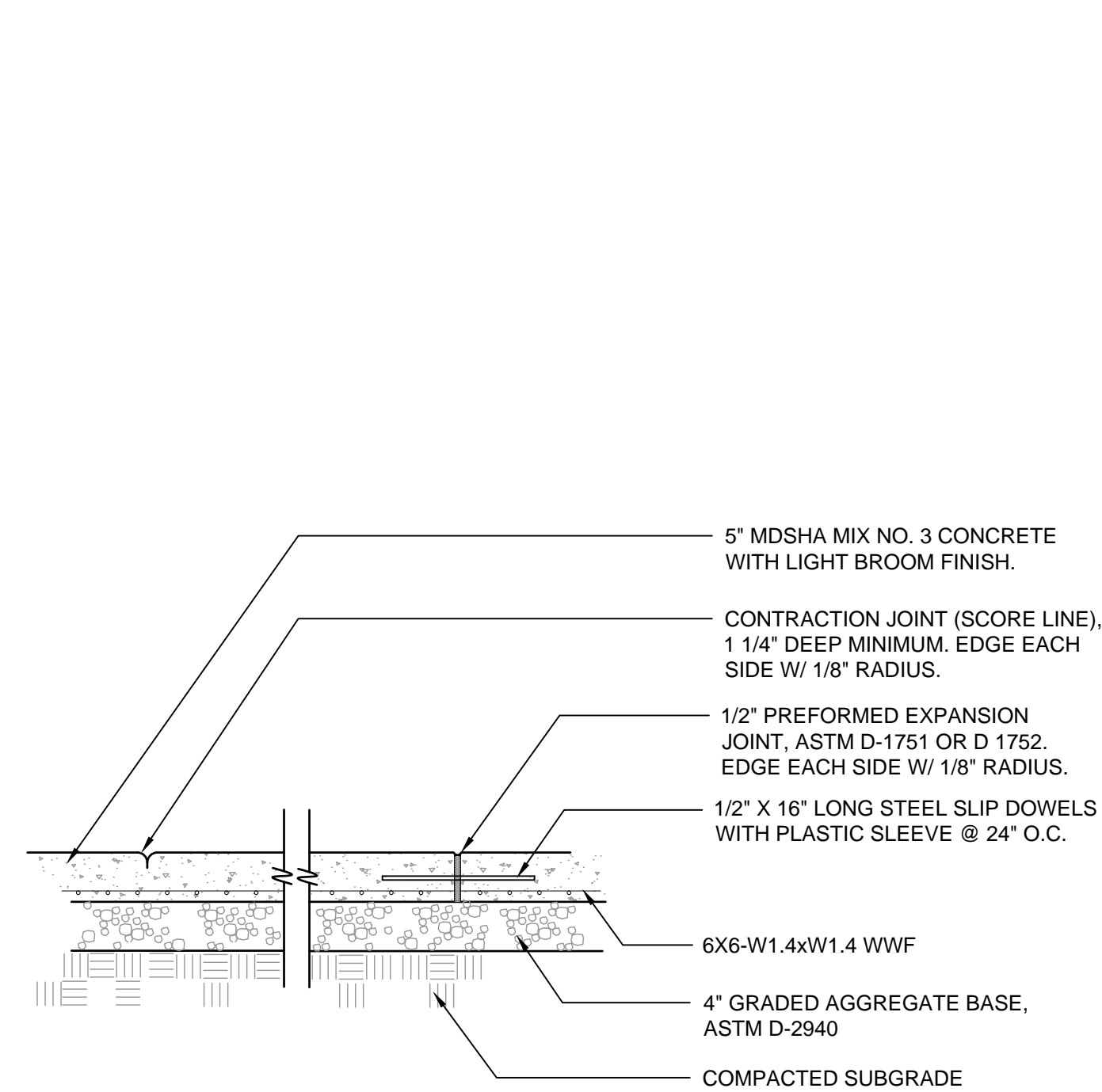
SHEET 8 OF 24



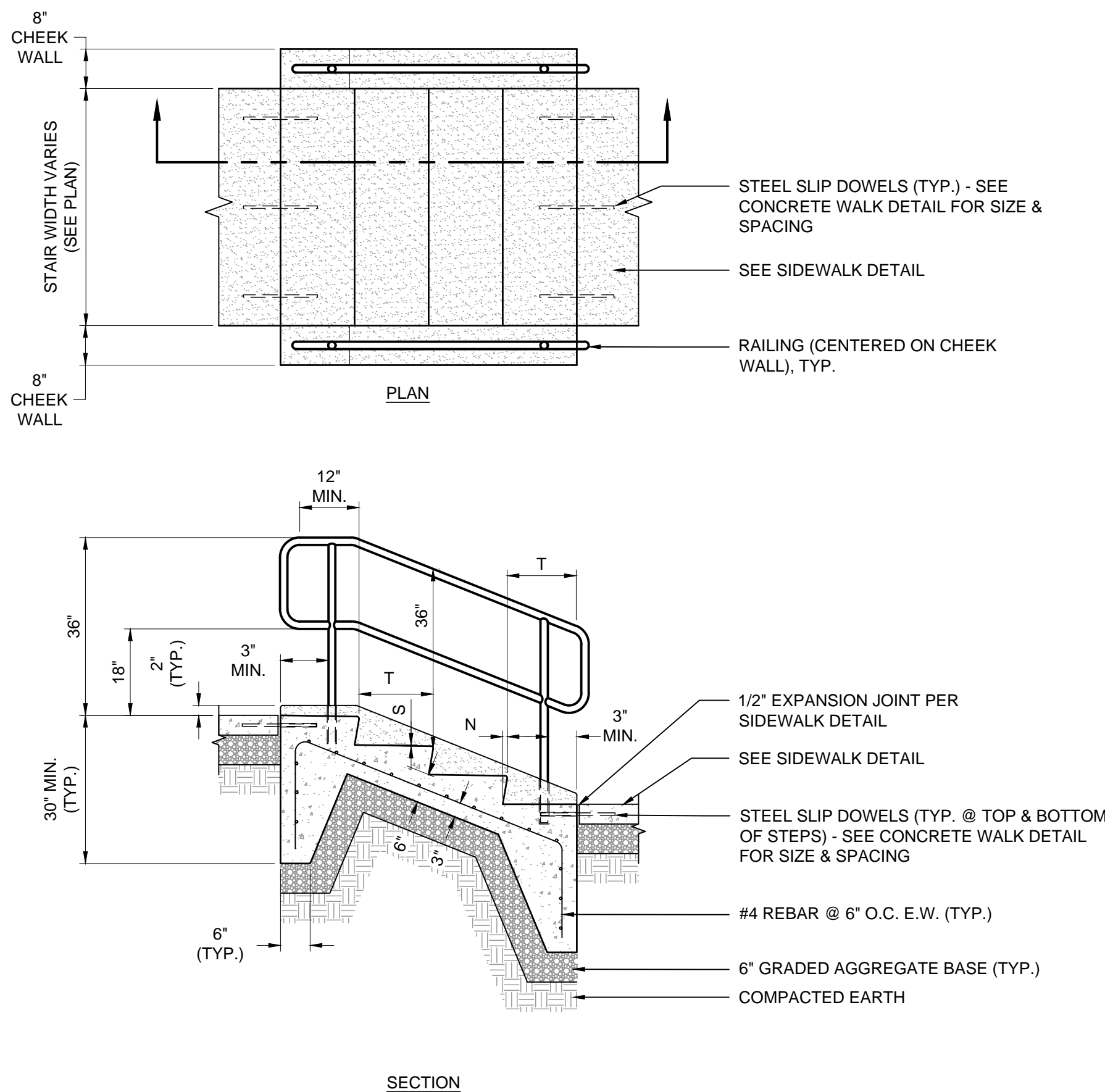
NOTE:
BACKFILL IN TRENCHES SHALL BE IN ACCORDANCE WITH MDSHA SPECIFICATIONS AND SHALL BE THOROUGHLY COMPACTED IN 6" LAYERS FOR THE FULL DEPTH OF THE TRENCHES BY TAMPING OR BY SOME OTHER APPROVED METHOD TO WITHIN 1" OF THE TOP OF SUBGRADE. THE REMAINING DEPTH OF THE TRENCH SHALL BE FILLED WITH THOROUGHLY COMPACTED CRUSHED STONE, SLAG OR GRAVEL. WHENEVER SHEETING OR SHORING IS REQUIRED TO PREVENT CAVE-INS OR BELLING DUE TO THE DEPTH OF THE TRENCH OR TYPE OF MATERIAL ENCOUNTERED, THE SHEETING, WHEREVER FOUND NECESSARY, SHALL REMAIN IN PLACE BUT CUT OFF 1' BELOW THE BOTTOM OF THE REPLACED SURFACING. ALL BACKFILL REPLACED SHALL BE COMPACTED TO AT LEAST 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH MDSHA SPECIFICATIONS AND CERTIFIED BY AN APPROVED GEOTECHNICAL TESTING CONTRACTOR. IN LIEU OF CONTROLLED FILL, FLOWABLE FILL IN ACCORDANCE WITH MDSHA SPECIFICATIONS MAY BE UTILIZED.

1 UTILITY TRENCH PAVING RESTORATION

NOT TO SCALE



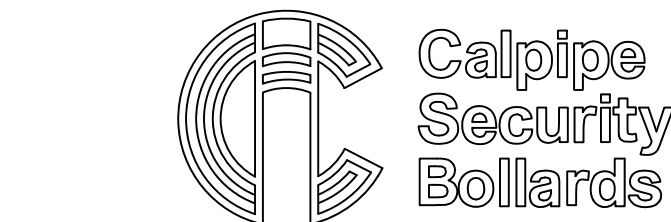
- NOTES**
1. PLACE EXPANSION JOINTS NOT MORE THAN 20'-25' APART AND AT THE END OF EACH CONTIGUOUS POUR.
 2. PLACE CONTRACTION JOINTS AT INTERVAL MATCHING WIDTH OF SIDEWALK BUT NOT MORE THAN 6' APART.
 3. PROVIDE EXPANSION JOINTS WHERE POUR MEETS EXISTING CONCRETE PAVING OR CURB.
 4. EXPANSION JOINTS TO BE RECESSED 1/4" BELOW SURFACE OF SIDEWALK.
 5. WHEN SIDEWALK ABUTS BACK OF STREET CURB, WALK SHALL BE 1/4" ABOVE TOP OF CURB.
 6. WHEN SIDEWALK ABUTS EXISTING CONCRETE WALK, CORE DRILL AND INSTALL DOWELS PER DETAIL.
 7. MATCH SCORE PATTERN OF ADJACENT SIDEWALK WHERE PRACTICAL.
 8. REFER TO MATERIALS PLAN FOR INTENDED SIDEWALK SCORING LAYOUT.



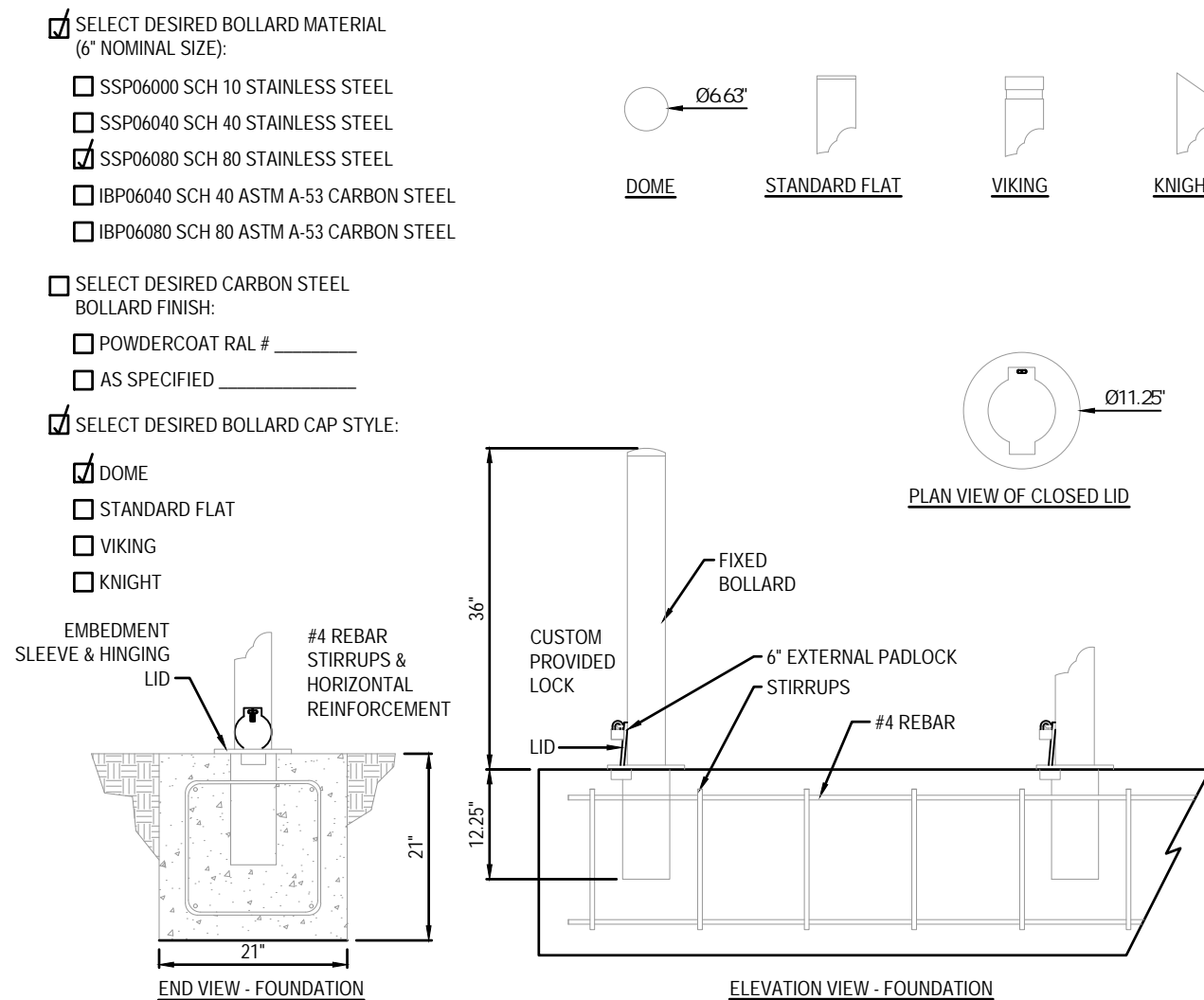
RISER (R)	TREAD (T)	SLOPE (S)	OVERHANG (N)
6	15	1/4	1

ALL DIMENSIONS IN INCHES

- NOTES:**
1. RAILINGS & POST TO BE SHOP FABRICATED OF 1-1/2" O.D. STEEL TUBING WITH ALL JOINTS CONTINUOUSLY WELDED AND GROUND SMOOTH. ASSEMBLY SHALL BE ELECTROCHEMICALLY GALVANIZED AFTER FABRICATION.
 2. TOP OF RAILING TO BE 36" ABOVE WALKING SURFACE AND STAIR NOSE.
 3. STRAIGHT PORTION OF RAILING TO EXTEND A MINIMUM OF 12" HORIZONTALLY BEYOND NOSE OF TOP RISER AND A TREAD WIDTH BEYOND BOTTOM RISER BEFORE TURNING DOWN.
 4. ALL CONCRETE TO BE MDSHA MIX NO. 3.
 5. ALL CHEEK WALL & STAIR NOSE RADII SHALL BE 1/2".
 6. CHEEK WALL SHALL BE 2" ABOVE STAIR NOSE & WALKING SURFACE.
 7. ALL RAILING EXTERIOR RADII SHALL BE 4".
 8. RAILING POSTS SHALL BE INSTALLED AT A DEPTH OF 8" INTO CONCRETE. WHERE INTERMEDIATE POSTS ARE NECESSARY, INSTALL IN CENTER OF STAIR TREAD. CONCRETE SHALL BE CORE DRILLED AND POST SET WITH NON-SHRINK GROUT. GROUT TO BE FLUSH WITH ADJACENT CONCRETE.
 9. STAIR TREADS TO RECEIVE LIGHT BROOM FINISH. (SEE SPECS)
 10. UNLESS OTHERWISE SHOWN ON PLAN, ALL REBAR SHALL HAVE A CLEARANCE OF 3" FROM SURFACE.



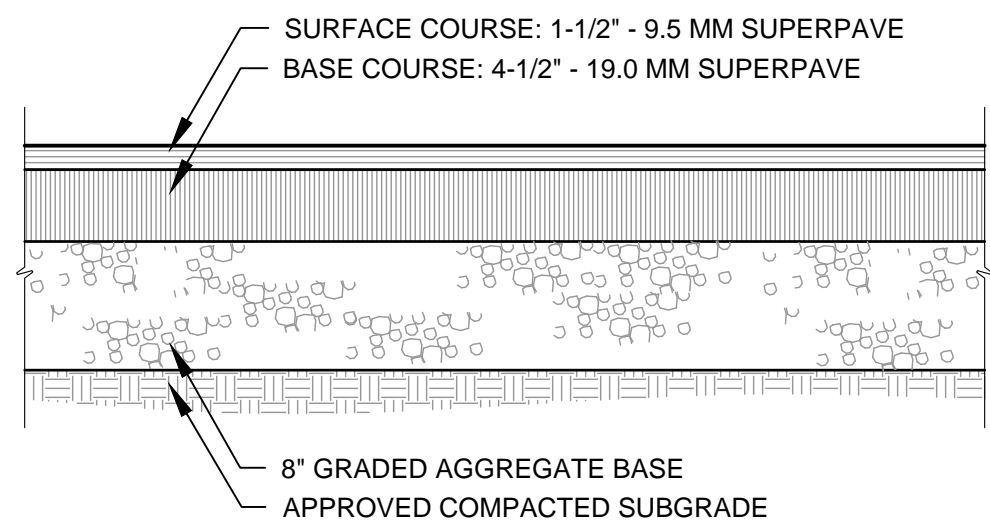
CALPIPE SECURITY BOLLARDS
12160 WOODRUFF AVE.
DOWNEY, CA 90241
TOLL FREE: 1-877-283-8518
PHONE: (562) 803-4388
FAX: (562) 803-9883
www.calpipebollards.com



- NOTES:**
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 2. DO NOT SCALE DRAWING.
 3. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
 4. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 2905-031.

2 CONCRETE SIDEWALK

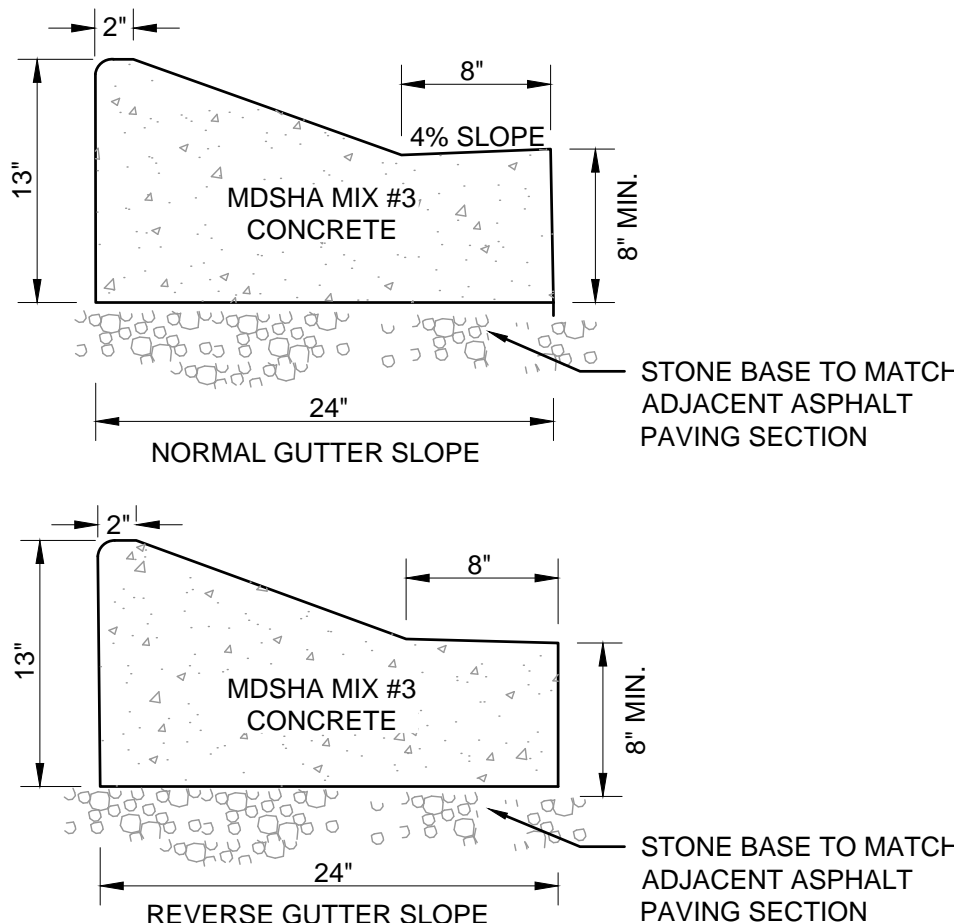
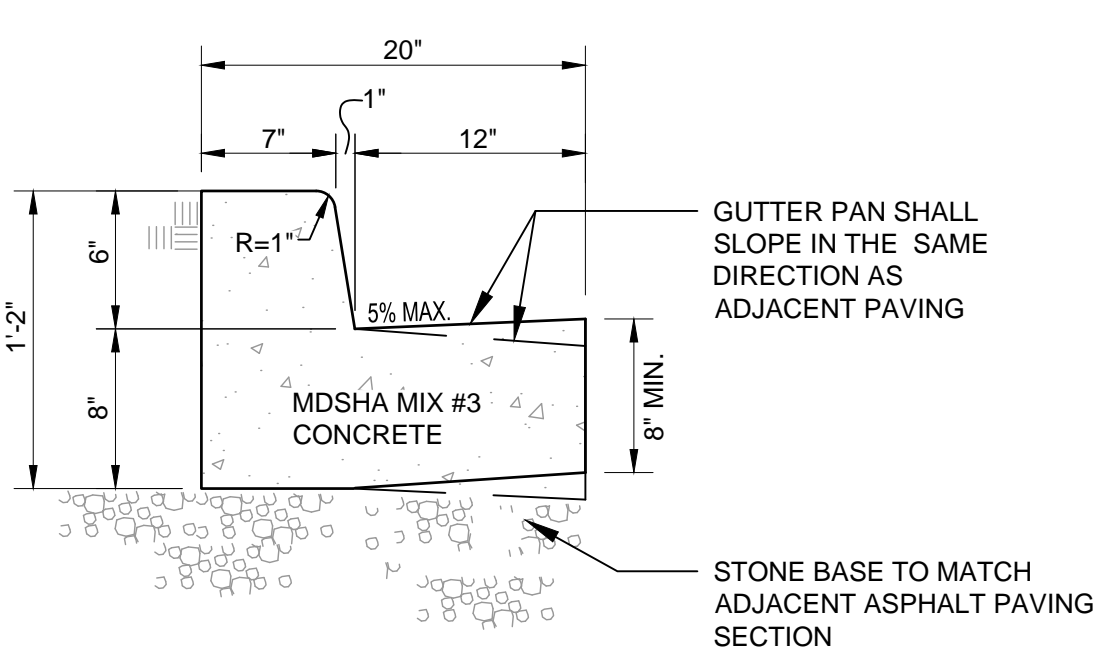
NOT TO SCALE



- NOTES:**
1. A REPRESENTATIVE FROM THE ON-SITE GEO-TECHNICAL ENGINEER SHALL OBSERVE AND TEST ANY COMPACTED FILL TO BE USED FOR PAVEMENT SUPPORT, AND OBSERVE ANY PROOFROLLING OPERATIONS OF PAVEMENT SUBGRADES.

3 CONCRETE STAIRS

NOT TO SCALE



5 HEAVY-DUTY HOT MIX ASPHALT PAVING

NOT TO SCALE

6 CONCRETE CURB

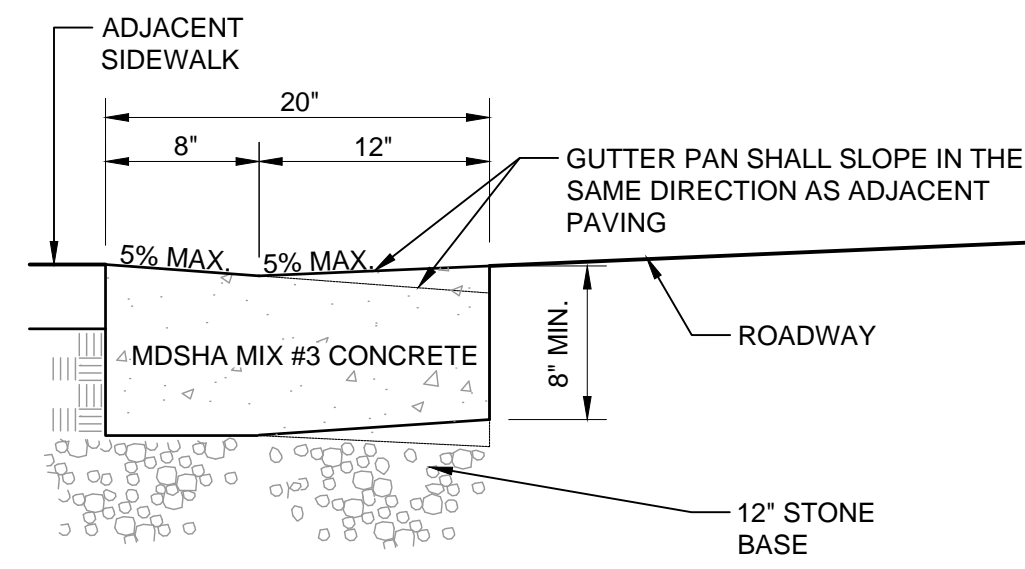
NOT TO SCALE

7 MOUNTABLE CONCRETE CURB DETAIL

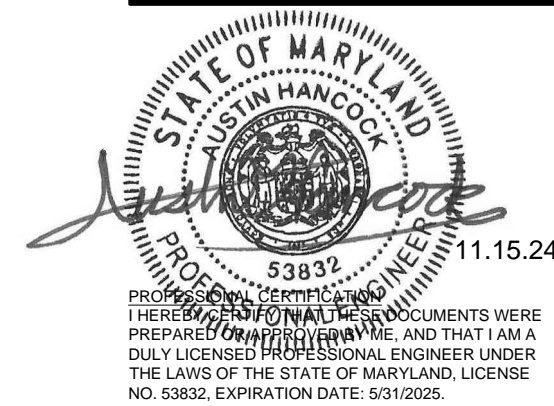
NOT TO SCALE

8 FLUSH CURB & GUTTER

NOT TO SCALE



COUNTY FILE NUMBER:
S-23-0030



PSC #06.038

FRIENDSHIP VALLEY ELEMENTARY SCHOOL PRE-K, KINDERGARTEN & PRIDE SUITE ADDITIONS

SITERESOURCES

CARROLL COUNTY PUBLIC SCHOOLS
1100 GIST ROAD, WESTMINSTER, MD 21157

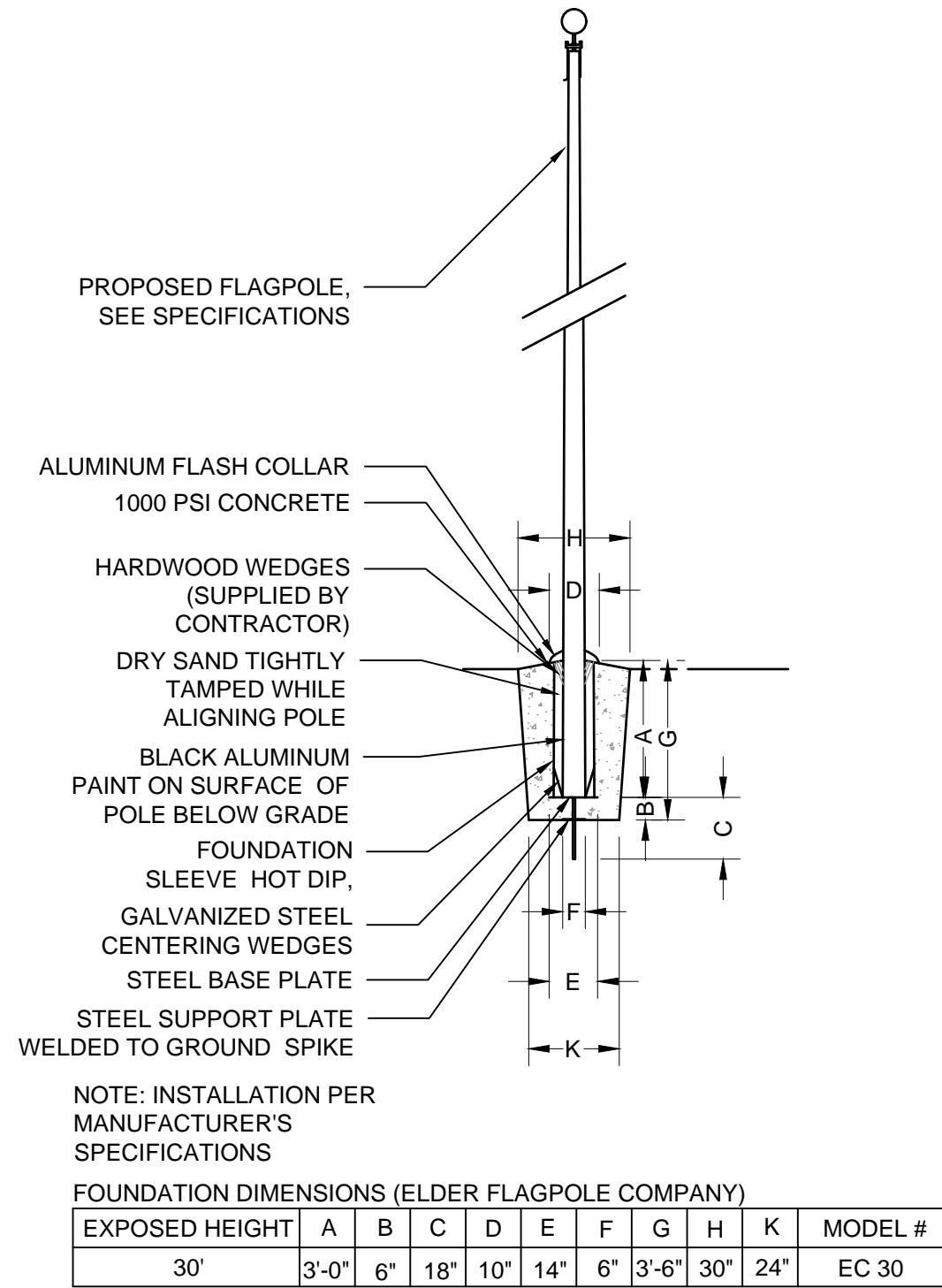
PROJECT NO. 631374	DATE:
REVISIONS	
DATE	DESCRIPTION
9/18/24	CD PROGRESS SET
10/25/24	95% CD SET

SITE DETAILS

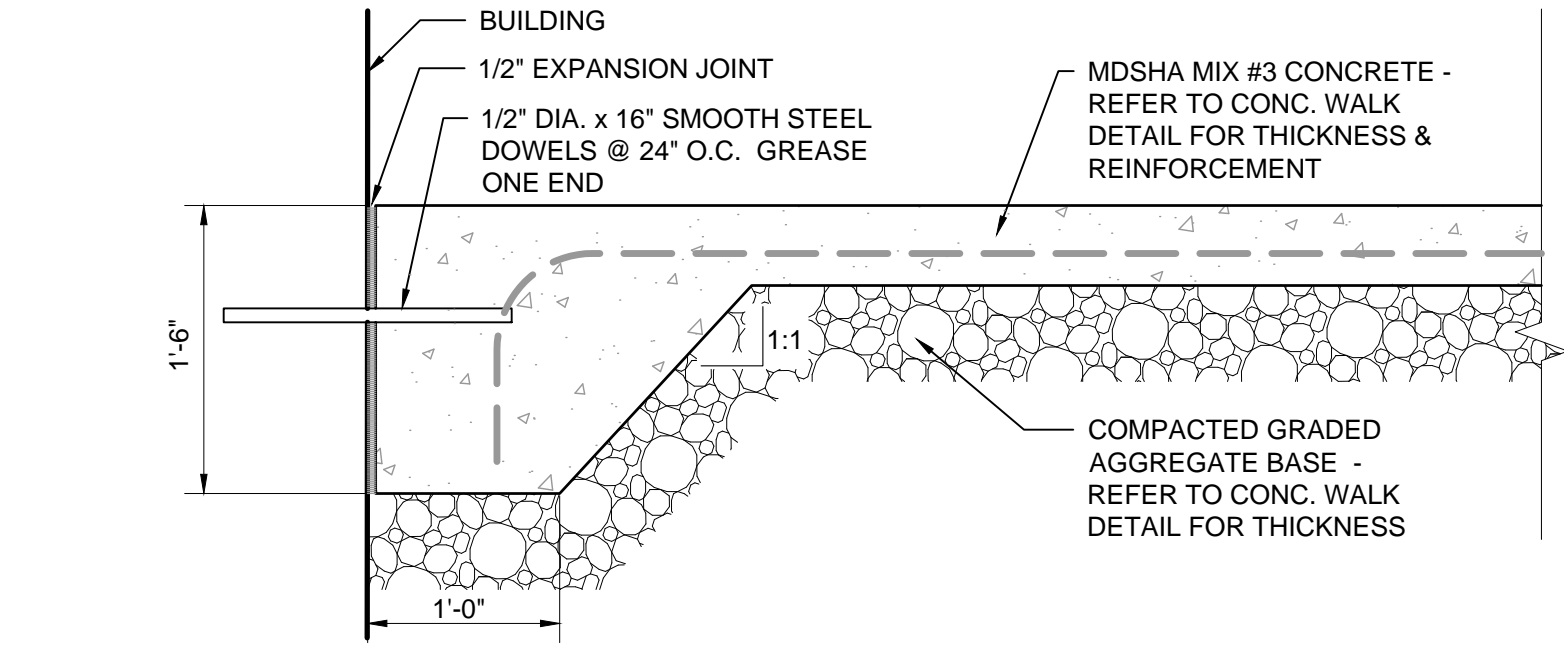
C201

SHEET 9 OF 24

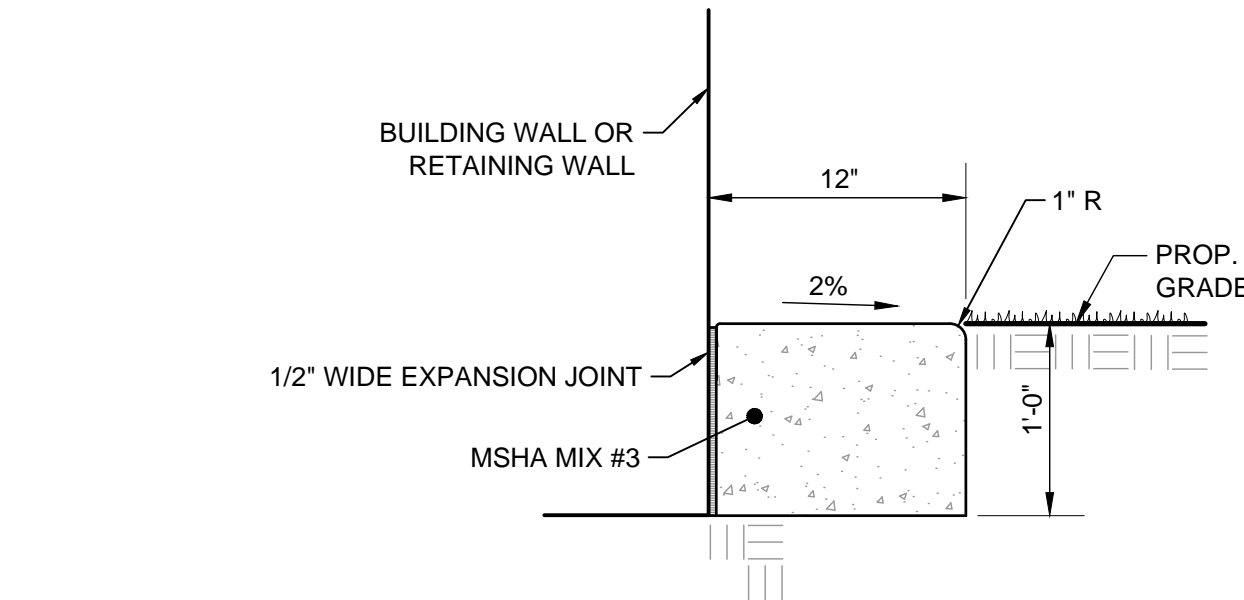
© SITE RESOURCES, INC. Z:\23\23033-CCPS FRIENDSHIP VALLEY ES04+DWG\C201 SITE DETAILS.DWG 11/11/2024 2:43 PM amh



1 FLAG POLE DETAIL
NOT TO SCALE



2 TURN DOWN SLAB AT BUILDING ENTRANCE
NOT TO SCALE

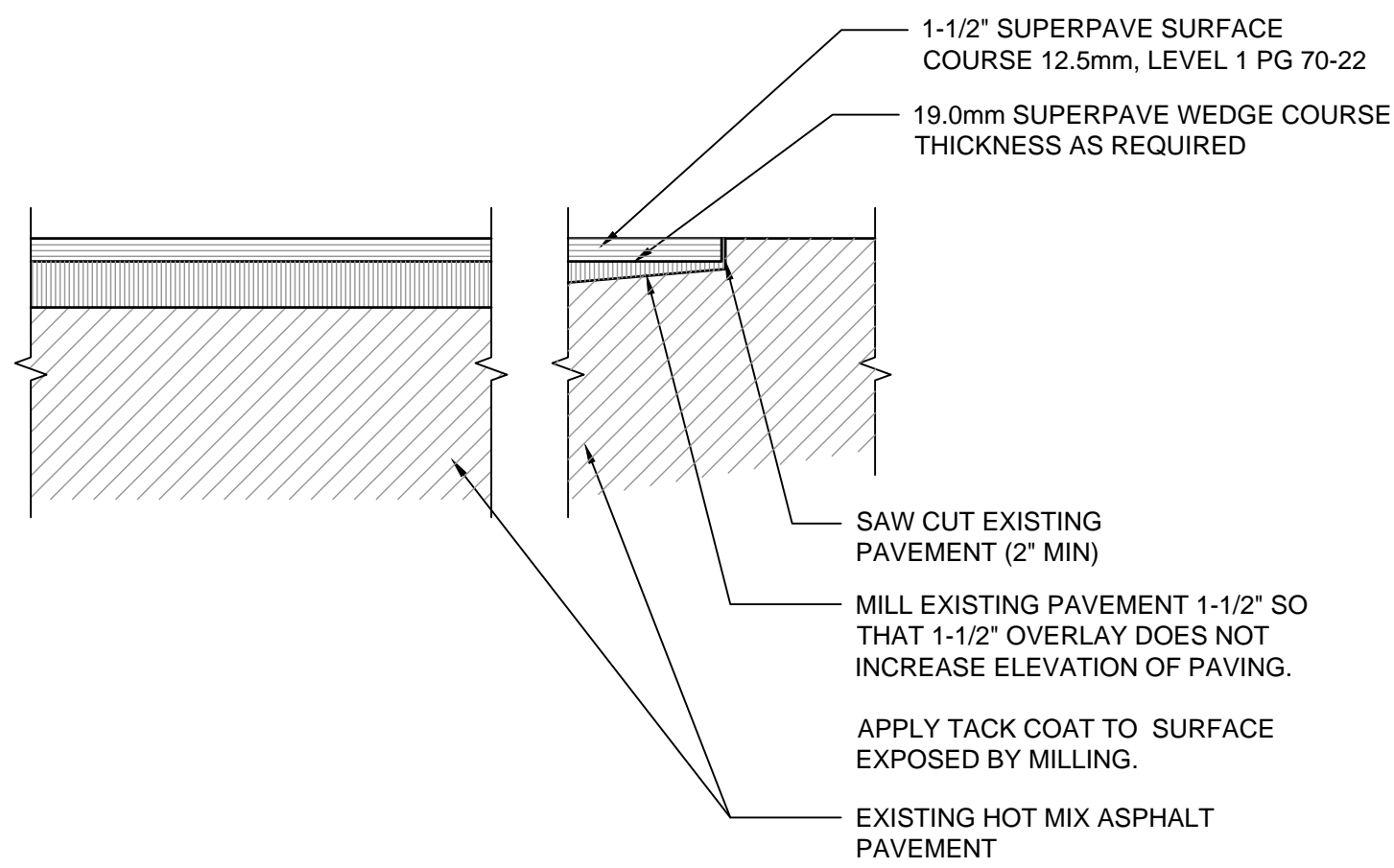


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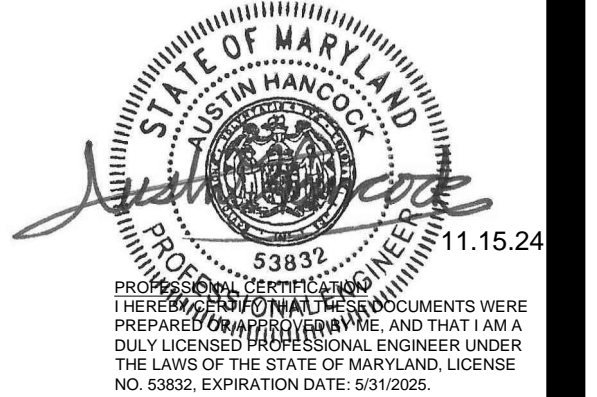
1. EXPANSION JOINTS SHALL BE PLACED A MAX. OF 20' UNLESS OTHERWISE NOTED.

2. CONTROL JOINTS SHALL BE SPACED A MAX. OF 5' UNLESS OTHERWISE NOTED.

3 CONCRETE MOW STRIP AT BLDG WALL
NOT TO SCALE



4 HOT MIX ASPHALT OVERLAY
NOT TO SCALE



PSC #06.038

FRIENDSHIP VALLEY ELEMENTARY SCHOOL PRE-K, KINDERGARTEN & PRIDE SUITE ADDITIONS

SITERESOURCES

CARROLL COUNTY PUBLIC SCHOOLS

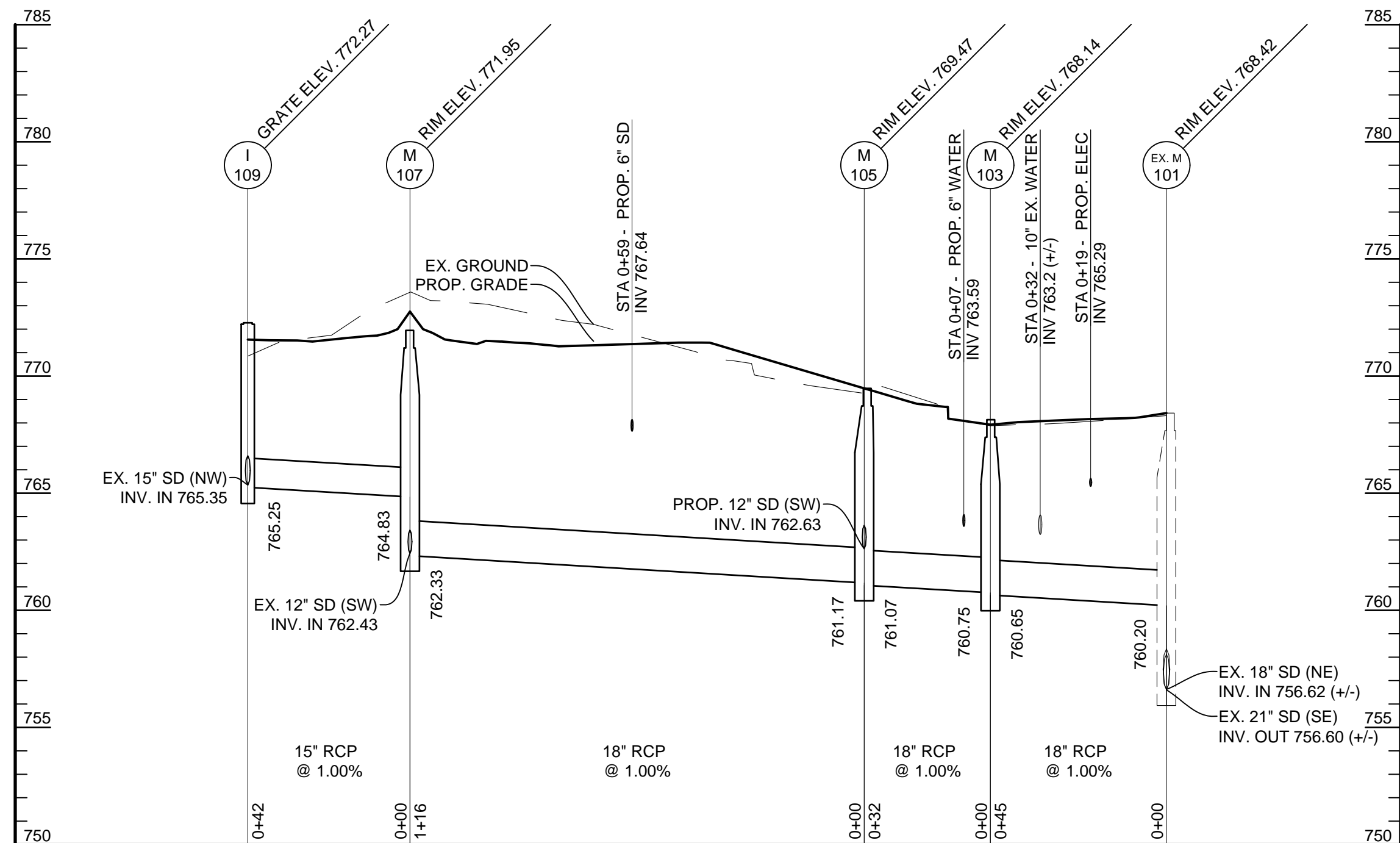
1100 GIST ROAD, WESTMINSTER, MD 21157

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DATE:	
REVISIONS	
DATE	DESCRIPTION
9/18/24	CD PROGRESS SET
10/25/24	95% CD SET

SITE DETAILS

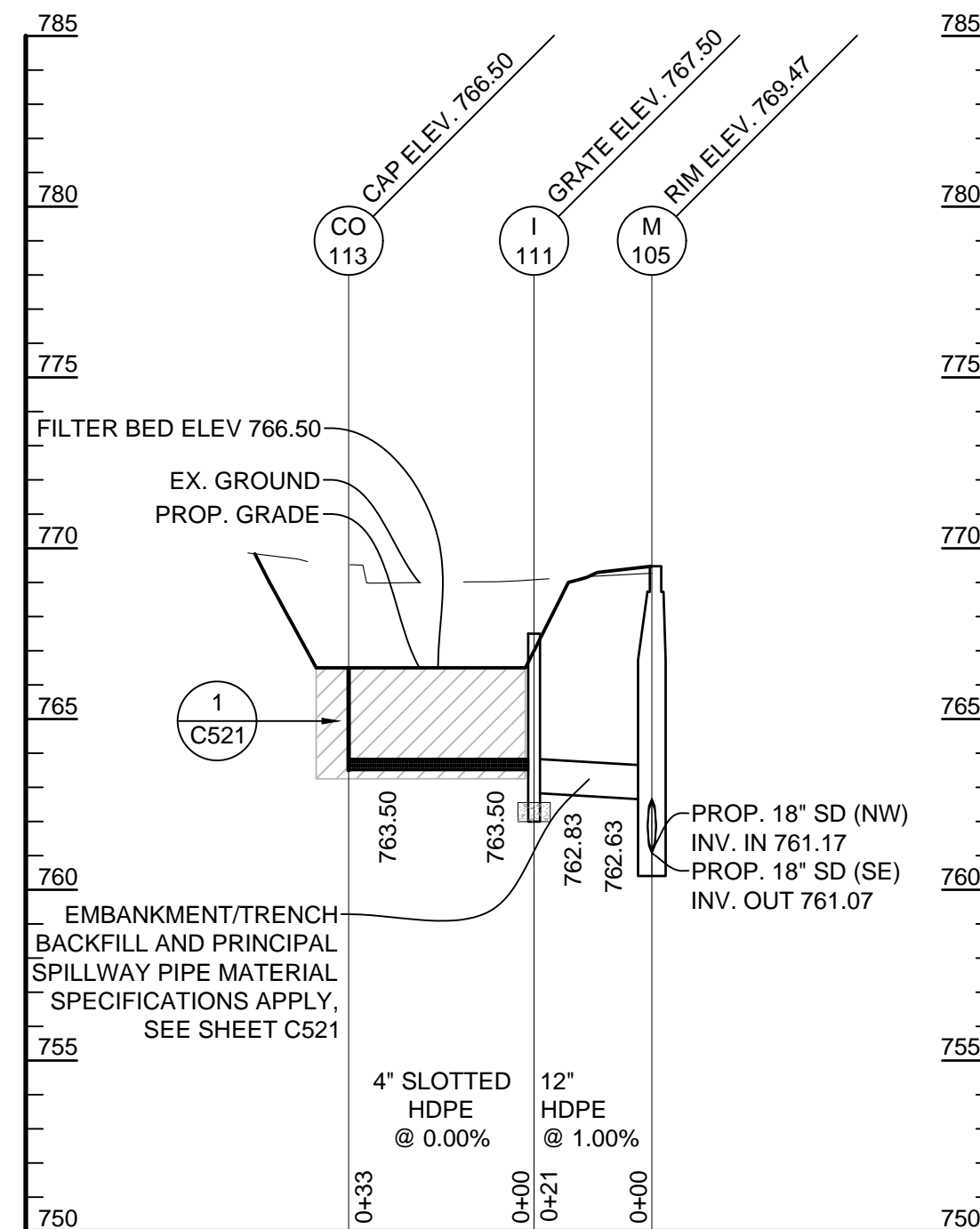
COUNTY FILE NUMBER:
S-23-0030

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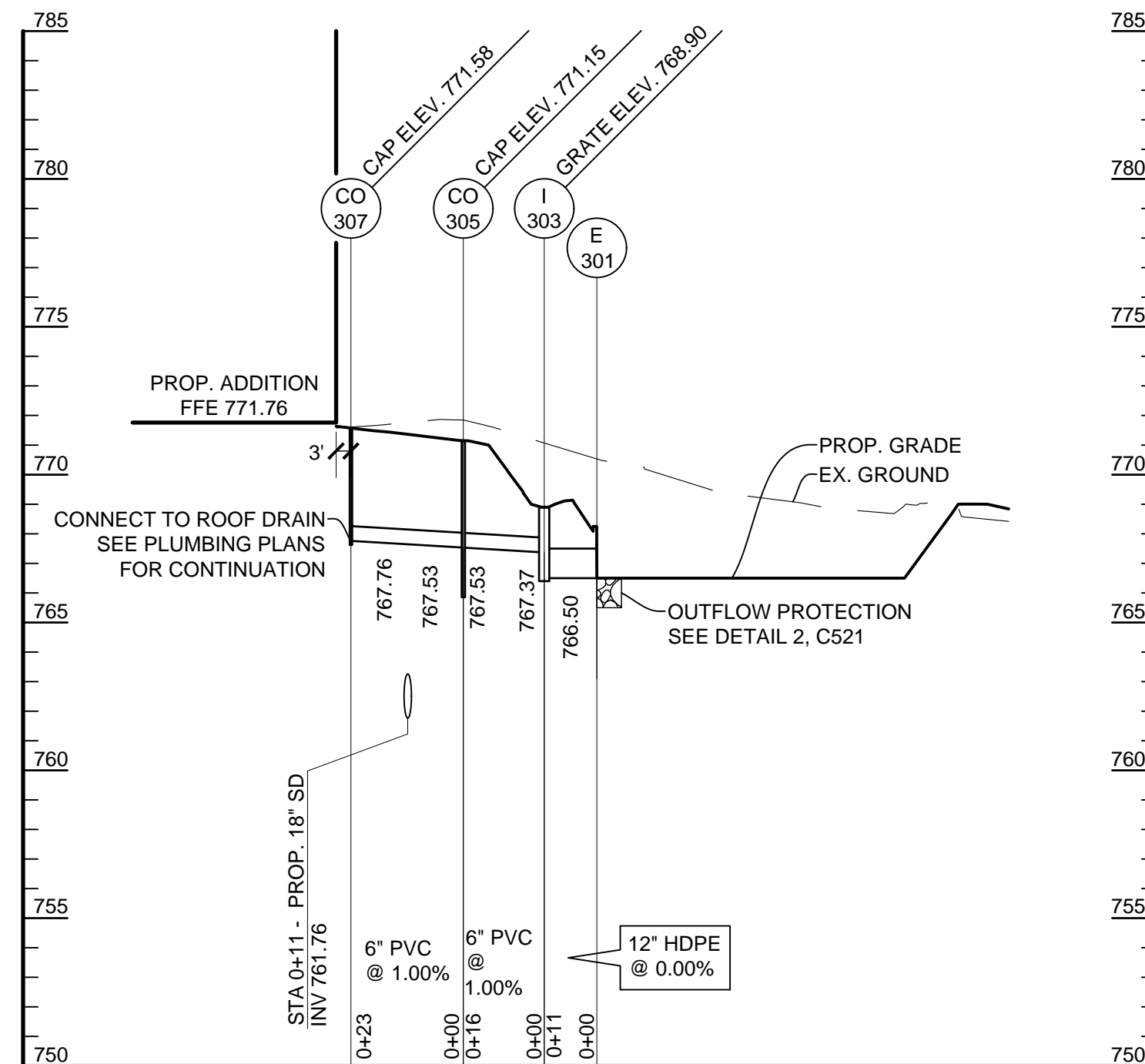
1 SD: I-101 TO EX. M-109

SCALES: HORIZ. 1" = 30'
VERT. 1" = 5'



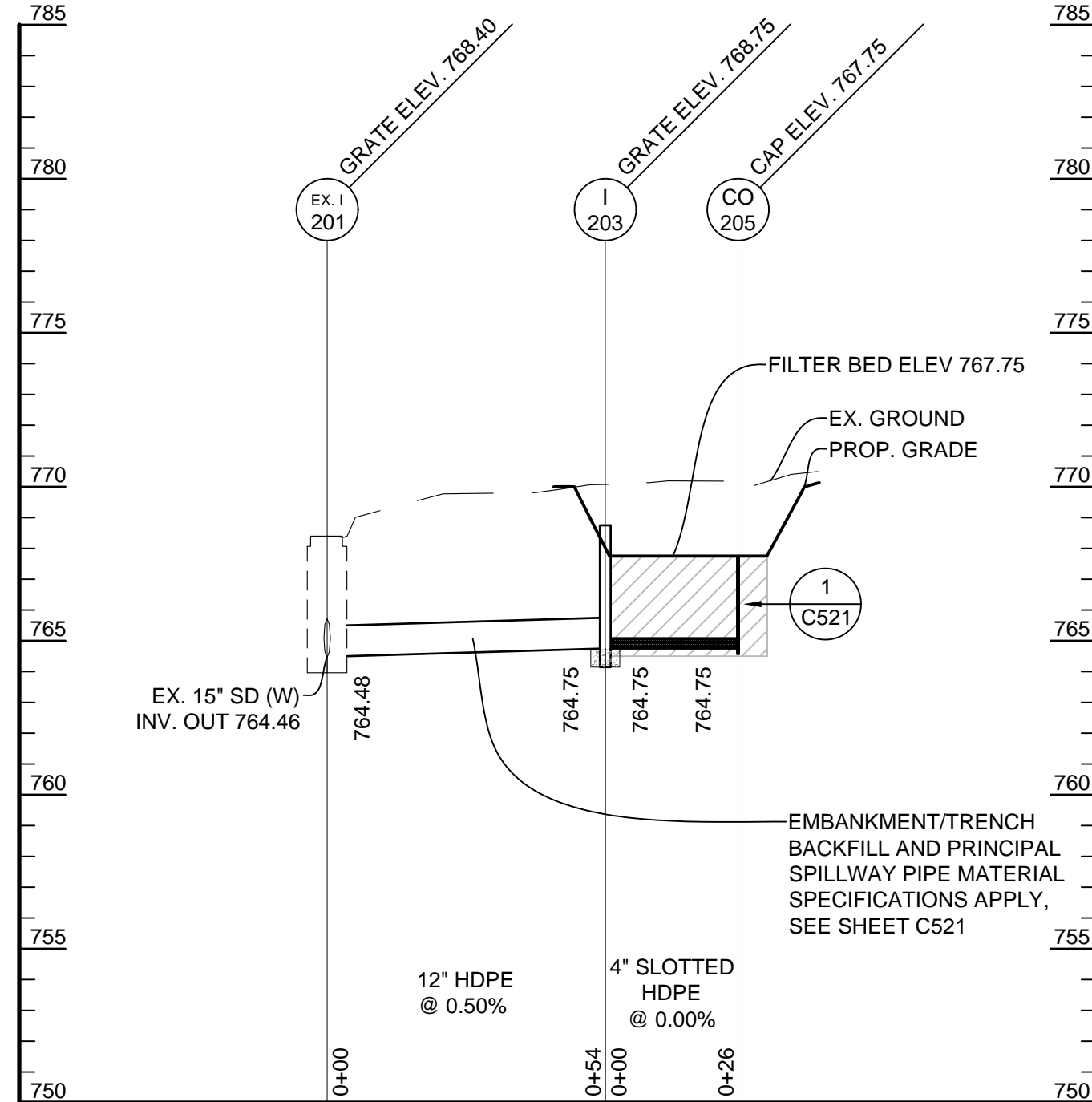
2 SD: CO-113 TO M-105

SCALES: HORIZ. 1" = 30'
VERT. 1" = 5'



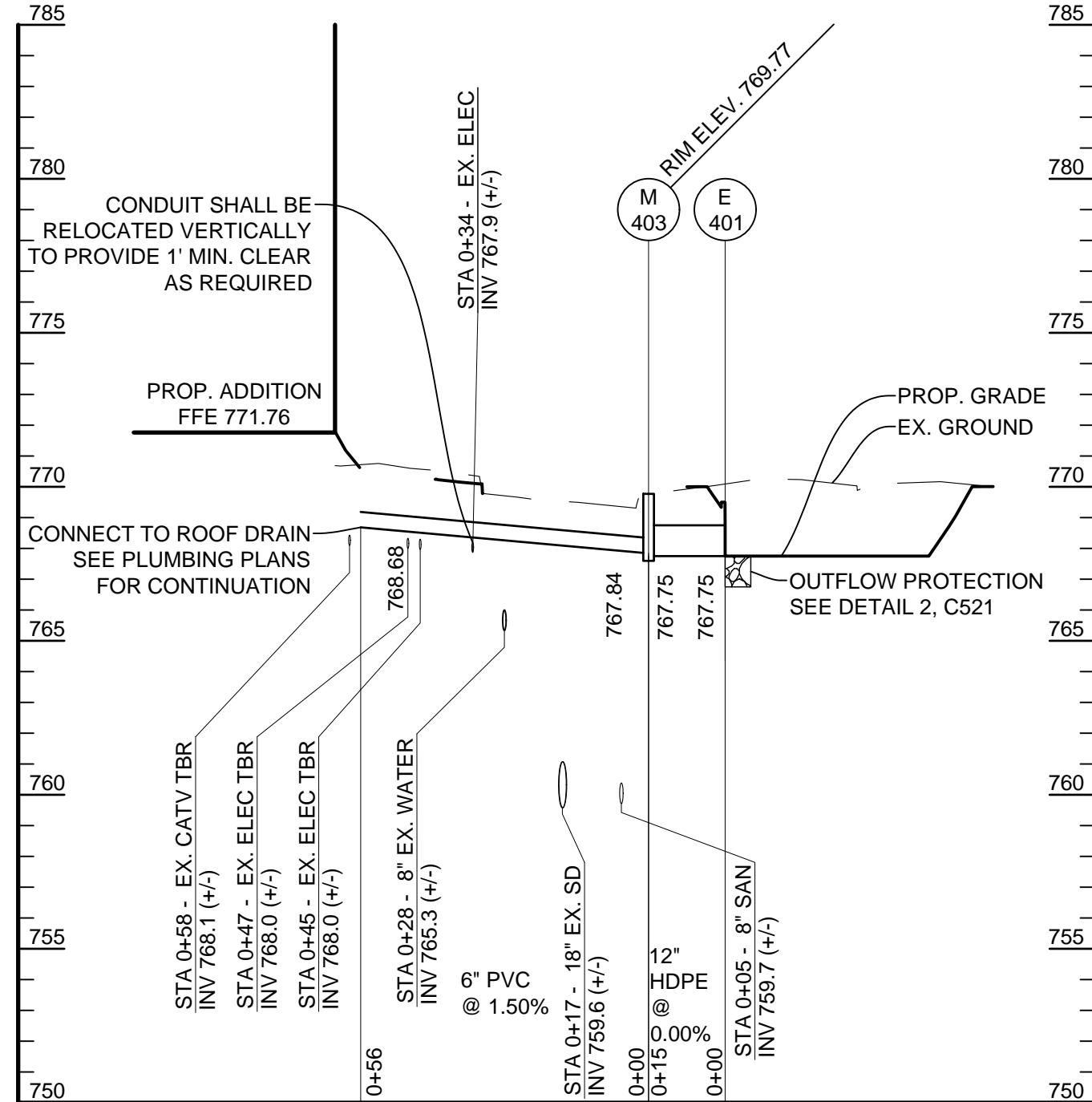
3 SD: BLDG TO E-301

SCALES: HORIZ. 1" = 30'
VERT. 1" = 5'



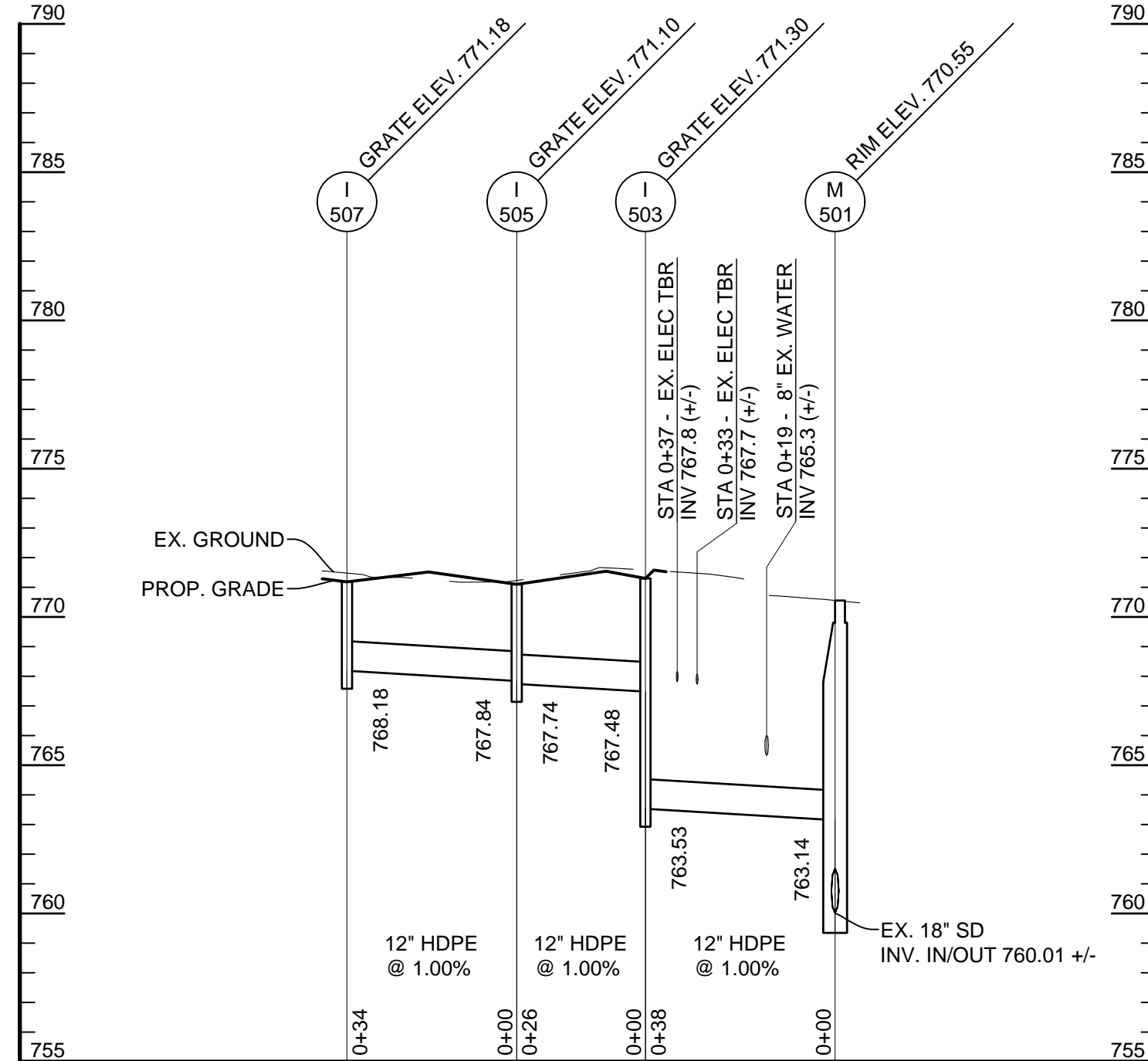
4 SD: CO-205 TO EX. I-201

SCALES: HORIZ. 1" = 30'
VERT. 1" = 5'



5 SD: BLDG TO E-401

SCALES: HORIZ. 1" = 30'
VERT. 1" = 5'



6 SD: I-507 TO M-501

SCALES: HORIZ. 1" = 30'
VERT. 1" = 5'

STRUCTURE TABLE

STRUCTURE #	STRUCTURE TYPE	TOP ELEV.	INV. IN	INV. OUT	COORDINATES	NOTES
M-103	48 IN PRECAST MANHOLE CACO PLATE 94	RIM 768.14	18" RCP (NW) 760.75	18" RCP (NE) 760.65	N: 683,938.55 E: 1,311,084.25	
M-105	48 IN PRECAST MANHOLE CACO PLATE 94	RIM 769.47	18" RCP (NW) 761.17 12" HDPE (SW) 762.63	18" RCP (SE) 761.07	N: 683,959.14 E: 1,311,059.33	
M-107	48 IN PRECAST MANHOLE CACO PLATE 94	RIM 771.95	15" RCP (NE) 764.83 12" RCP (SW) 762.43	18" RCP (SE) 762.33	N: 684,033.29 E: 1,310,969.61	SEE NOTE 1
I-109	PRECAST YARD INLET MDSA 381.02	GRATE 772.27	15" RCP (NW) 765.35	15" RCP (SW) 765.25	N: 684,062.68 E: 1,310,999.00	SEE NOTE 1
I-111	24" NYLOPLAST DRAIN BASIN w/ DOME GRATE	GRATE 767.50	4" HDPE (SW) 763.50	12" HDPE (NE) 762.83	N: 683,943.18 E: 1,311,046.17	SEE NOTE 2
I-203	24" NYLOPLAST DRAIN BASIN w/ DOME GRATE	GRATE 768.75	4" HDPE (NE) 764.75	12" HDPE (SW) 764.75	N: 684,141.61 E: 1,311,296.83	SEE NOTE 2
E-301	TYPE C ENDWALL ROUND PIPE CACO PLATE 79	-	12" HDPE (NW) 766.50		N: 683,962.22 E: 1,311,012.62	

NOTES:

- BASE OF STRUCTURE SHALL BE CAST-IN-PLACE TO ACCEPT EXISTING PIPE ENTERING/EXITING STRUCTURE.
- DRAIN BASIN SHALL HAVE 15" SUMP FILLED TO INVERTS WITH CONCRETE, AND INSTALL 68"x68"x10" CONCRETE BASE PER ADS NYLOPLAST DRAWING NO. 7001-110-142.

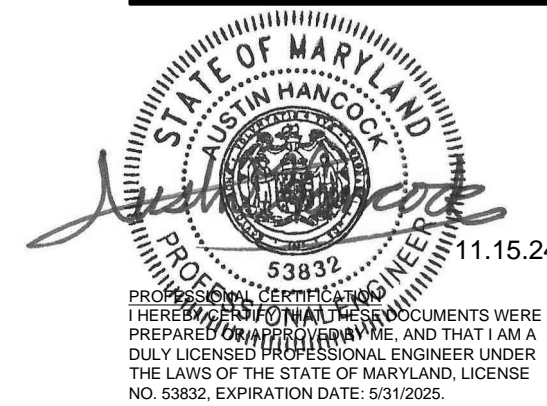
STRUCTURE TABLE

STRUCTURE #	STRUCTURE TYPE	TOP ELEV.	INV. IN	INV. OUT	COORDINATES	NOTES
I-303	24" NYLOPLAST DRAIN BASIN w/ STANDARD GRATE	GRATE 768.90	6" PVC (N) 767.37	12" HDPE (SE) 766.50	N: 683,971.94 E: 1,311,008.19	
E-401	TYPE C ENDWALL ROUND PIPE CACO PLATE 79	-	12" HDPE (W) 767.75		N: 684,146.76 E: 1,311,291.75	
M-403	24" NYLOPLAST DRAIN BASIN w/ SOLID COVER	RIM 769.77	6" PVC (NW) 767.84	12" HDPE (E) 767.75	N: 684,144.40 E: 1,311,277.03	
M-501	48 IN PRECAST MANHOLE CACO PLATE 94	RIM 770.55	12" HDPE (NW) 763.14 18" RCP (NE) 760.01	18" RCP (SW) 760.01	N: 684,202.35 E: 1,311,302.39	SEE NOTE 1
I-503	24" NYLOPLAST DRAIN BASIN w/ STANDARD GRATE	GRATE 771.30	12" HDPE (NW) 767.48	12" HDPE (SE) 763.53	N: 684,233.69 E: 1,311,280.22	
I-505	24" NYLOPLAST DRAIN BASIN w/ STANDARD GRATE	GRATE 771.10	12" HDPE (NW) 767.84	12" HDPE (SE) 767.74	N: 684,251.38 E: 1,311,261.10	
I-507	24" NYLOPLAST DRAIN BASIN w/ STANDARD GRATE	GRATE 771.18		12" HDPE (SE) 768.18	N: 684,272.28 E: 1,311,233.83	

COUNTY FILE NUMBER:
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MOSELEYARCHITECTS

1414 KEY HIGHWAY, SECOND FLOOR, BALTIMORE, MD 21230
PHONE (410) 539-4300 FAX (410) 539-0660
MOSELEYARCHITECTS.COM



PSC #06.038

FRIENDSHIP VALLEY ELEMENTARY SCHOOL PRE-K,
KINDERGARTEN & PRIDE SUITE ADDITIONS

SITERESOURCES
Creating Right - Naturally Integrated

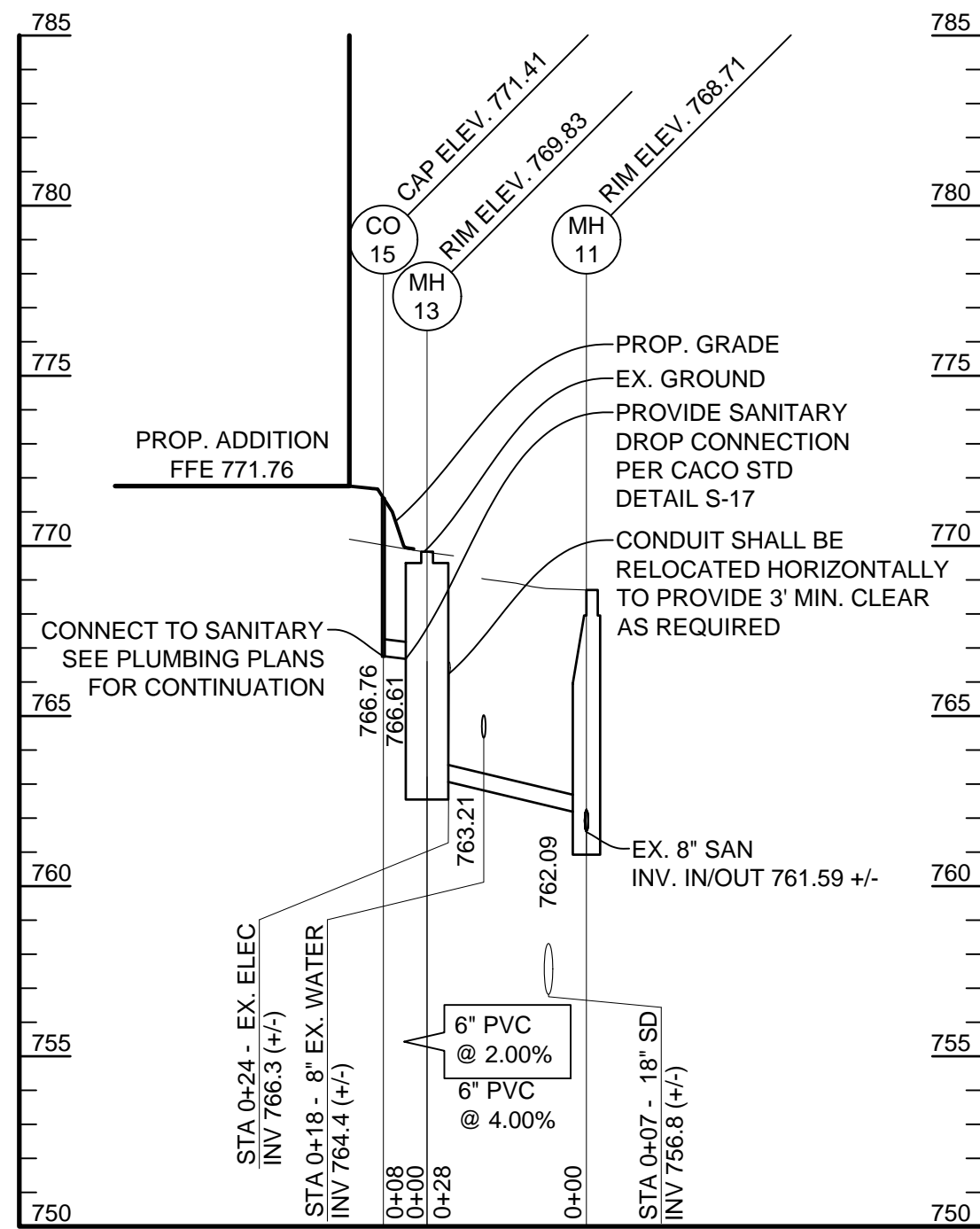
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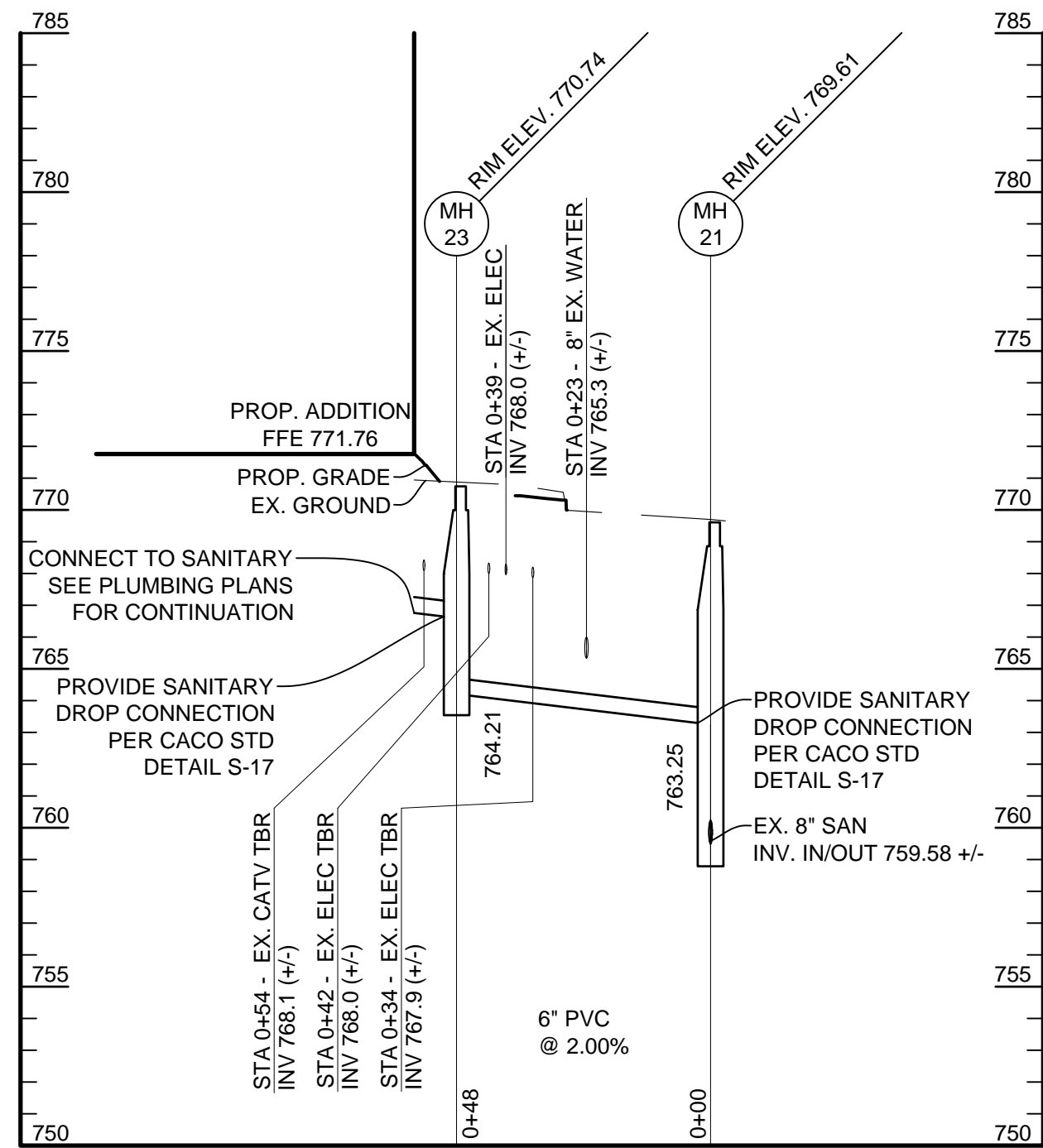
STORM DRAIN
PROFILES

C301

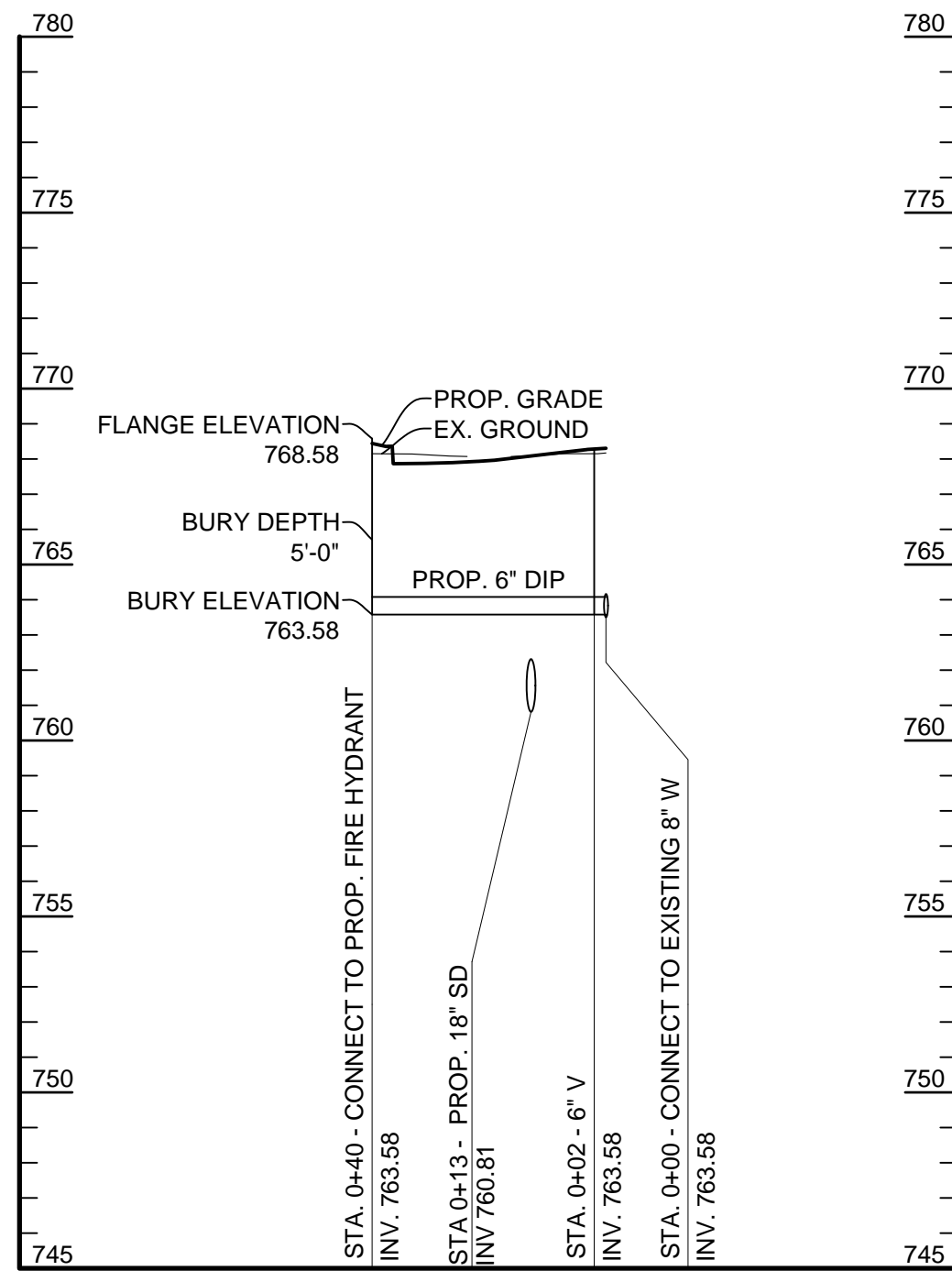
SHEET 11 OF 24



1 SAN: BLDG TO MH-11
SCALES: HORIZ. 1" = 30'
VERT. 1" = 5'



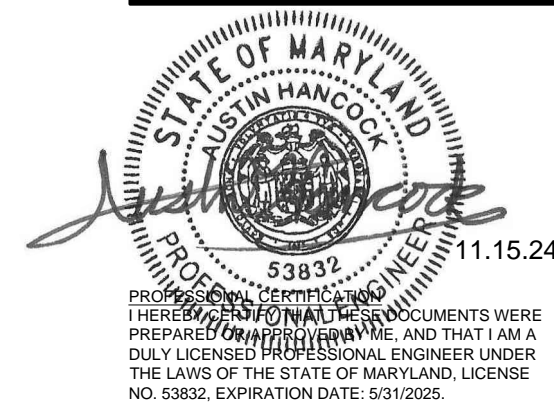
2 SAN: BLDG TO MH-21
SCALES: HORIZ. 1" = 30'
VERT. 1" = 5'



3 WATER: 8" FH LEAD
SCALES: HORIZ. 1" = 30'
VERT. 1" = 5'

STRUCTURE TABLE

STRUCTURE #	STRUCTURE TYPE	TOP ELEV.	INV. IN	INV. OUT	COORDINATES
MH-11	DOGHOUSE MANHOLE CACO S-3	RIM 768.71	6" PVC (NW) 762.09 8" PVC (SW) 761.59	8" PVC (NE) 761.59	N: 683,978.58 E: 1,311,130.75
MH-13	PRECAST SHALLOW MANHOLE CACO S-2	RIM 769.83	6" PVC (NW) 766.61	6" PVC (SE) 763.21	N: 683,996.17 E: 1,311,108.84
MH-21	DOGHOUSE MANHOLE CACO S-3	RIM 769.61	6" PVC (NW) 763.25 8" PVC (SW) 759.58	8" PVC (NE) 759.48	N: 684,161.63 E: 1,311,284.25
MH-23	PRECAST SANITARY MANHOLE CACO S-1	RIM 770.74	6" PVC (NW) 766.60	6" PVC (SE) 764.21	N: 684,191.99 E: 1,311,247.15



PSC #06.038

FRIENDSHIP VALLEY ELEMENTARY SCHOOL PRE-K,
KINDERGARTEN & PRIDE SUITE ADDITIONS



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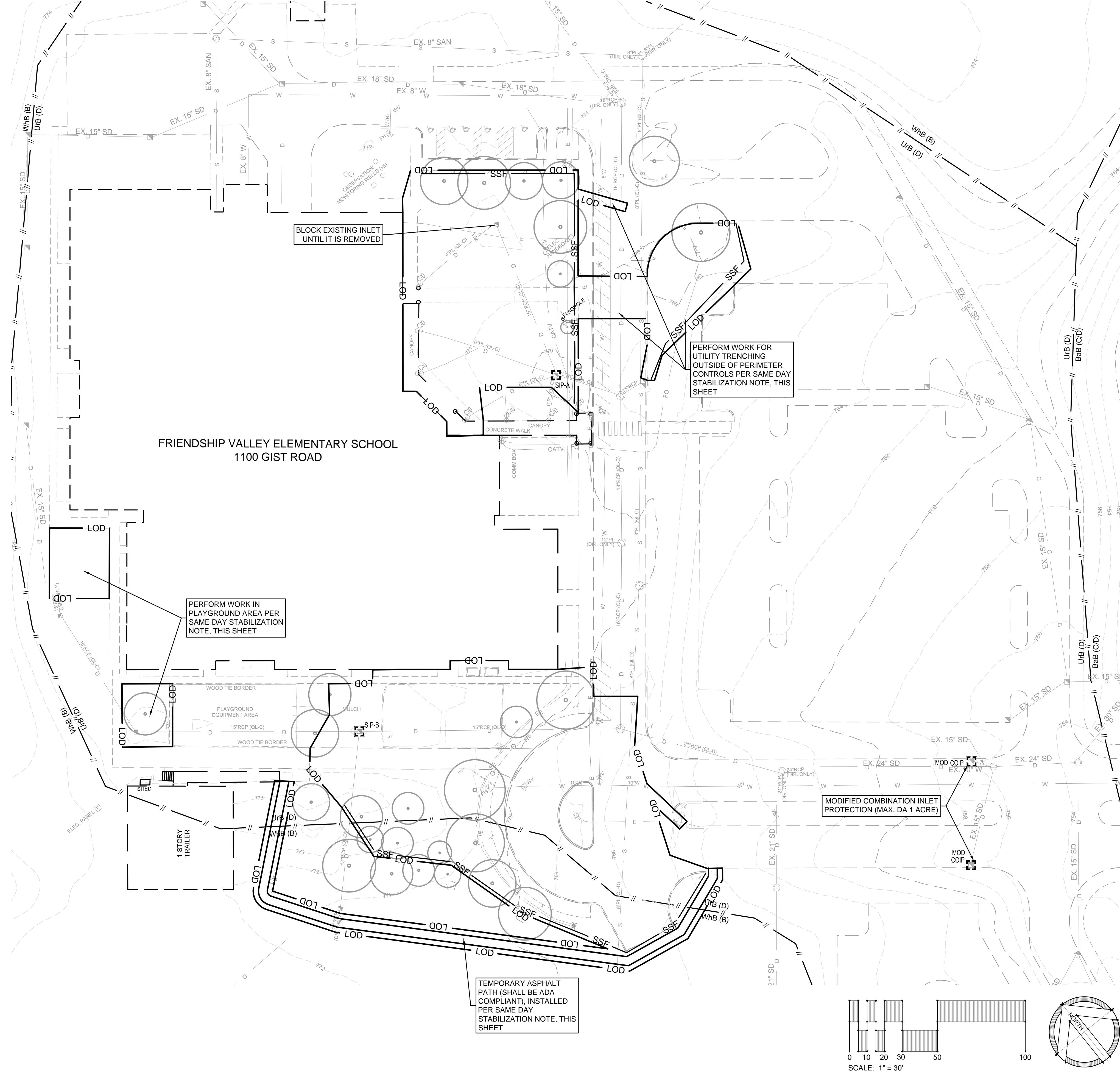
WATER AND SEWER
PROFILES

COUNTY FILE NUMBER:
S-23-0030

C311

SEQUENCE OF OPERATIONS

- CONTACT THE CARROLL COUNTY SEDIMENT CONTROL INSPECTOR (1-410-386-2210) 24 HOURS PRIOR TO DOING ANYTHING ON THE SITE TO SET UP A PRE-CONSTRUCTION MEETING AND TO MAKE SURE ALL LOCAL ORDINANCE ITEMS HAVE BEEN SATISFIED.
- IF APPLICABLE, ORANGE HIGH VISIBILITY FENCE (HVF) SHALL BE MANUALLY INSTALLED ALONG THE LIMIT OF DISTURBANCE (LOD), WHERE THE LOD IS WITHIN 50 FEET OF THE FOREST BUFFER / CONSERVATION EASEMENT. THIS SHALL BE COMPLETED BY AND INSPECTED AT THE PRE-CONSTRUCTION MEETING.
- CONTACT MISS UTILITY AT 1-800-257-7777 AT LEAST THREE DAYS IN ADVANCE OF STARTING WORK SHOWN ON PLANS.
- CLEAR AND GRUB FOR SEDIMENT & EROSION CONTROL MEASURES OR DEVICES ONLY.
- INSTALL EROSION & SEDIMENT CONTROL MEASURES AND DEVICES AS SHOWN ON SHEET C401 INCLUDING ALL INLET PROTECTION DEVICES, AND INSTALL SUPER SILT FENCE (SSF), STOCKPILE AREA AND THE CONTRACTOR'S STAGING AREA MUST BE DESIGNATED AND PROVIDED PRIOR TO COMMENCING WORK. TEMPORARILY STABILIZE ALL STOCK PILES. CONSTRUCTION TRAFFIC SHOULD BE COORDINATED WITH CCPS AND SEDIMENT CONTROL INSPECTOR IN ACCORDANCE WITH STABILIZED CONSTRUCTION ENTRANCE NOTE, THIS SHEET.
- NOTIFY SEDIMENT CONTROL INSPECTOR UPON COMPLETION OF SAID INSTALLATION. CONTACT THE CARROLL COUNTY SEDIMENT CONTROL INSPECTOR PRIOR TO REMOVING ANY SEDIMENT CONTROL MEASURES. APPROVAL FROM THE SEDIMENT CONTROL INSPECTOR IS REQUIRED.
- BEGIN DEMOLITION TO THE EXTENTS OF LOD AS SHOWN ON C401.
- CONTRACTOR SHALL INSPECT AND MAINTAIN ALL EROSION & SEDIMENT CONTROL MEASURES AND DEVICES AFTER EACH STORM EVENT. MAINTENANCE SHALL INCLUDE, BUT NOT LIMITED TO, REMOVAL OF ALL ACCUMULATED SEDIMENT. GEOTEXTILE FABRIC SHALL BE REPLACED AS NEEDED TO ENSURE PROPER FUNCTION.
- FINISH DEMOLITION OF SITE. BEGIN MASS GRADING, BUILDING CONSTRUCTION AND INSTALLATION OF UTILITIES, CURB AND GUTTER AS SHOWN ON C411. PROVIDE INLET PROTECTION WHERE SHOWN PRIOR TO INLETS BECOMING FUNCTIONAL. CONTRACTOR SHALL ROUGH GRADE DEPRESSIONS WHICH ARE TO BECOME STORM WATER MANAGEMENT (SWM) FACILITIES SO THAT THE INITIAL GROUND SURFACE IS LEVEL WITH RIM ELEVATION OF THE OVERFLOW INLET WHICH IS ABOVE THE FILTER BED ELEVATION. GRADING OF THE SWM FACILITIES AND INSTALLATION OF THE PLANTING MEDIA, SAND, UNDERDRAINS AND RECHARGE STONE SHALL BE DONE ONLY WHEN THE ENTIRE CONTRIBUTING AREA IS STABILIZED. BUILDING RENOVATIONS WILL OCCUR THROUGHOUT ALL STEPS OF CONSTRUCTION. FLUSH STORM DRAINS CONTRIBUTING TO DEPRESSIONS, AND CLEAN OUT DEPRESSIONS FOLLOWING EACH STORM EVENT.
- FINE GRADE AND STABILIZE DISTURBED AREAS TO THE EXTENT SHOWN ON C411. STABILIZE WITH SEED & MATTING WHERE SHOWN. ONCE CONTRIBUTING DRAINAGE AREA TO MICRO-BIORETENTIONS #1, #2 ARE STABILIZED WITH ESTABLISHED VEGETATION AND WITH THE APPROVAL FROM THE SEDIMENT CONTROL INSPECTOR, EXCAVATE THE SWM FACILITY TO THE APPROPRIATE DEPTH. INSTALL STONE, UNDERDRAINS, PIPE OUTFALLS, SAND, PLANTING MEDIA, ETC. IN ACCORDANCE WITH THE APPROVED SWM PLANS. CONTRACTOR SHALL EXERCISE EXTRA CARE DURING THIS PROCESS SO AS TO NOT DAMAGE THE PREVIOUSLY INSTALLED STORM DRAIN SYSTEMS. PRIOR TO INSTALLATION OF MULCH LAYER, FLOOD SWM FACILITIES WITH CLEAN WATER TO PONDING ELEVATION AND TIME DRAW-DOWN TO ENSURE DRAW-DOWN TIME IS LESS THAN 48 HOURS AND DRAINAGE WITHIN THE SWM FACILITY IS FUNCTIONING. CONTRACTOR SHALL NOTIFY AS-BUILT ENGINEER AT LEAST TWO WEEKS PRIOR TO CONSTRUCTION OF SWM FACILITIES.
- PROVIDE REMAINING LANDSCAPING INSTALLATION FOR THE SITE.
- UPON COMPLETION AND STABILIZATION OF SITE WITH ESTABLISHED VEGETATION AND WITH PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, REMOVE REMAINING SEDIMENT CONTROL MEASURES AND STABILIZE THOSE AREAS DISTURBED BY THIS PROCESS USING PER DAILY STABILIZATION NOTE ON THIS SHEET.



LEGEND

- PROPERTY LINE
- EXISTING BUILDING
- EXISTING WALK
- EXISTING ROAD
- EXISTING CURB
- EXISTING TREES
- EXISTING SHRUBS
- EXISTING STORM DRAIN
- EXISTING WATER
- EXISTING SANITARY SEWER
- EXISTING TELEPHONE
- EXISTING ELECTRIC
- EXISTING OVERHEAD ELECTRIC
- EXISTING LIGHTING
- EXISTING CONTOURS
- EXISTING SOIL GROUP DELINEATION
- LIMIT OF DISTURBANCE
- SUPER SILT FENCE

COIP COMBINATION

SIP-B STANDARD B INLET PROTECTION

SIP-A STANDARD A

STABILIZED CONSTRUCTION ENTRANCE NOTE:

WHERE A STABILIZED CONSTRUCTION ENTRANCE (SCE) IS NOT PRACTICAL, THE CONTRACTOR SHALL USE SMALL CONSTRUCTION VEHICLES, MAXIMIZE WORK WITHIN THE LIMIT OF DISTURBANCE, AND PRIOR TO DRIVING ON ANY ADJACENT AND PUBLIC ROADS, ALL EQUIPMENT AND VEHICLES MUST BE THOROUGHLY CLEANED OR WASHED TO REMOVE SEDIMENT AND DEBRIS. ALL SEDIMENT SPILLED, DROPPED OR TRACKED ONTO THE ROAD MUST BE REMOVED IMMEDIATELY BY VACUUMING, SCRAPING OR SWEEPING. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE THAT DRAINS TO AN APPROVED SEDIMENT CONTROL DEVICE.

SAME DAY STABILIZATION NOTE

THE WORK IN THIS AREA SHALL BE DONE USING THE METHOD OF "SAME DAY STABILIZATION". NO MORE AREA SHALL BE DISTURBED THAN CAN BE STABILIZED BY THE END OF THE WORKDAY. ALL DISTURBED AREAS THAT DO NOT DRAIN TO A SEDIMENT CONTROL DEVICE SHALL BE STABILIZED AT THE END OF THE WORKDAY. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT UNLESS THE RUNOFF IS DIRECTED TO AN MDE APPROVED SEDIMENT CONTROL DEVICE.

STABILIZATION SHALL BE AS FOLLOWS :
- FOR AREAS TO BE PAVED : APPLICATION OF STONE SUBBASE.
- FOR AREAS TO BE VEGETATIVELY STABILIZED : PERMANENT SEED AND EROSION CONTROL MATTING FOR ALL SWALES/CHANNELS AND PERMANENT SEED AND MULCH FOR ALL OTHER AREAS.

GENERAL SHEET NOTES:

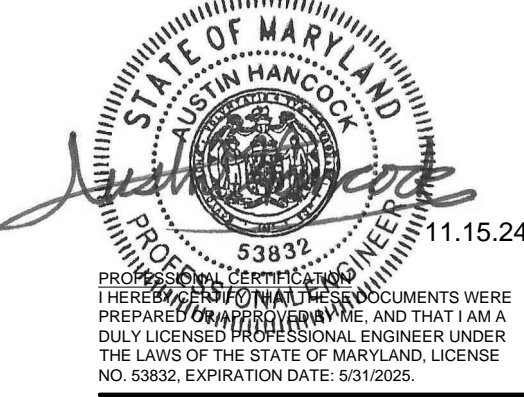
- ALL DISTURBED AREAS SHALL BE RESTORED TO EXISTING CONDITIONS AT THE END OF CONSTRUCTION.
- USE FILTER BAGS AS NECESSARY TO PUMP ANY NUISANCE WATER.
- STABILIZE IMMEDIATELY ANY OFFSITE AREAS DISTURBED BY CONSTRUCTION VEHICLES OR EQUIPMENT.
- USE SAME DAY STABILIZATION METHOD FOR ANY DISTURBANCE.
- DISTURBANCE SHALL BE LIMITED TO THAT WHICH CAN BE STABILIZED AT THE END OF EACH WORK DAY. IN THE EVENT THAT STABILIZATION IS NOT POSSIBLE, SILT FENCE SHOULD BE INSTALLED.
- ALL CONSTRUCTION VEHICLES AND EQUIPMENT SHALL USE RUBBER TIRES. NO TRACKED VEHICLES OR EQUIPMENT ARE PERMITTED ON SITE.
- ANY OFFSITE AREAS DISTURBED BY CONSTRUCTION VEHICLES OR EQUIPMENT SHALL BE STABILIZED IMMEDIATELY.

PHASING NOTE:

ALL WORK AND PHASING SHALL BE COORDINATED WITH CCPS TO ENSURE THAT CONSTRUCTION DOES NOT DISRUPT NORMAL OPERATIONS OF EXISTING ELEMENTARY SCHOOL.

MOSELEYARCHITECTS

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MOSELEYARCHITECTS.COM



PSC #06.038

FRIENDSHIP VALLEY ELEMENTARY SCHOOL PRE-K, KINDERGARTEN & PRIDE SUITE ADDITIONS



CARROLL COUNTY PUBLIC SCHOOLS
1100 GIST ROAD, WESTMINSTER, MD 21157

PROJECT NO: 631374	DATE:	REVISIONS
DATE	DESCRIPTION	
9/18/24	CD PROGRESS SET	
10/25/24	95% CD SET	

FINAL EXISTING
SEDIMENT CONTROL
PLAN

C401

SHEET 13 OF 24

LIMIT OF DISTURBANCE: 45,065 S.F./ 1.03 AC.
MARYLAND COORDINATE SYSTEM (MCS)

COUNTY FILE NUMBER:
S-23-0030

STABILIZED CONSTRUCTION ENTRANCE
NOTE:

WHERE A STABILIZED CONSTRUCTION ENTRANCE (SCE) IS NOT PRACTICAL, THE CONTRACTOR SHALL USE SMALL CONSTRUCTION VEHICLES, MAXIMIZE WORK WITHIN THE LIMIT OF DISTURBANCE, AND PRIOR TO DRIVING ON ANY ADJACENT AND PUBLIC ROADS, ALL EQUIPMENT AND VEHICLES MUST BE THOROUGHLY CLEANED OR WASHED TO REMOVE SEDIMENT AND DEBRIS. ALL SEDIMENT SPILLED, DROPPED OR TRACKED ONTO THE ROAD MUST BE REMOVED IMMEDIATELY BY VACUUMING, SCRAPING OR SWEEPING. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE THAT DRAINS TO AN APPROVED SEDIMENT CONTROL DEVICE.

SAME DAY STABILIZATION NOTE

THE WORK IN THIS AREA SHALL BE DONE USING THE METHOD OF "SAME DAY STABILIZATION". NO MORE AREA SHALL BE DISTURBED THAN CAN BE STABILIZED BY THE END OF THE WORKDAY. ALL DISTURBED AREAS THAT DO NOT DRAIN TO A SEDIMENT CONTROL DEVICE SHALL BE STABILIZED AT THE END OF THE WORKDAY. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT UNLESS THE RUNOFF IS DIRECTED TO AN MDE APPROVED SEDIMENT CONTROL DEVICE.

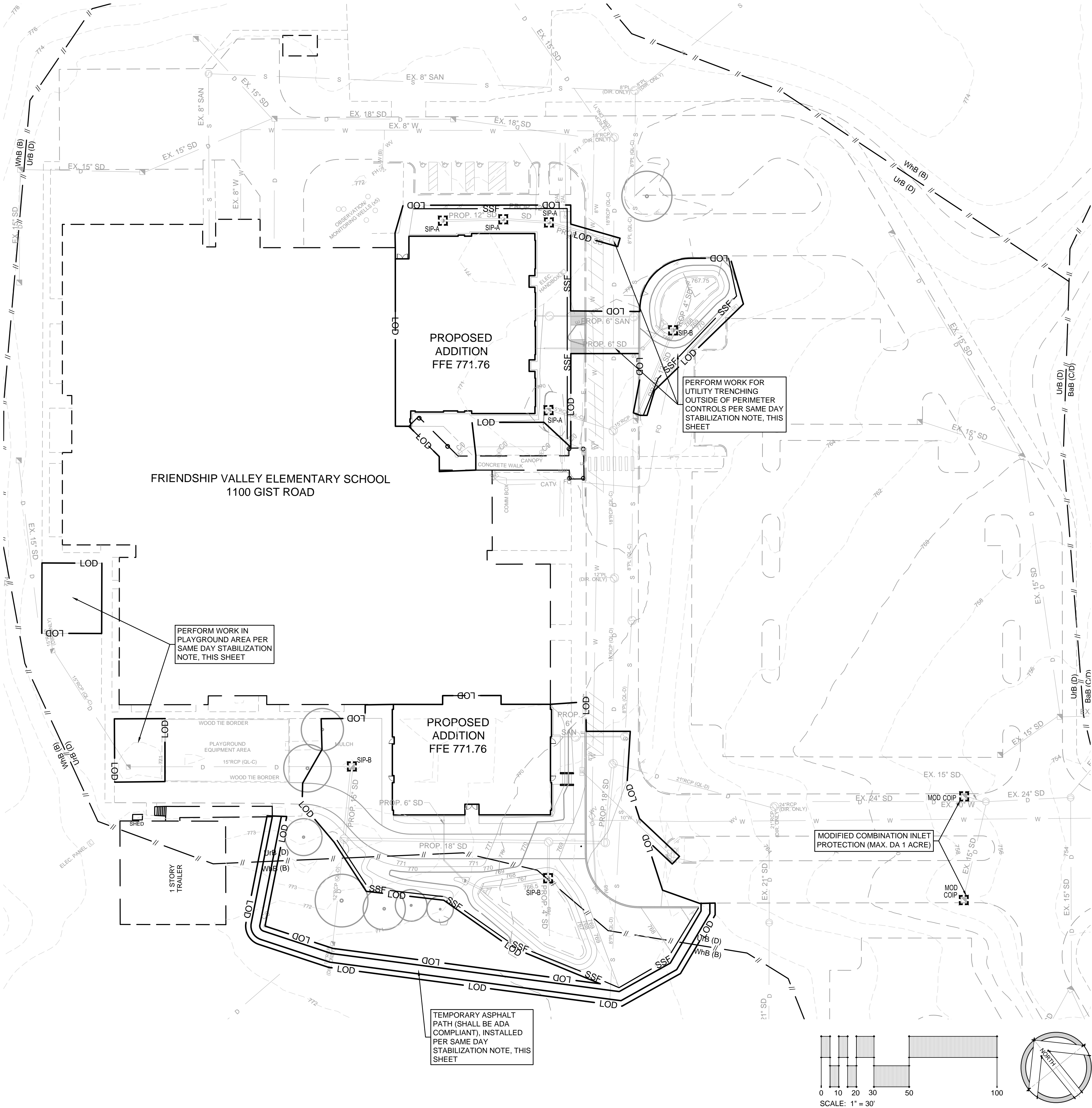
STABILIZATION SHALL BE AS FOLLOWS :
- FOR AREAS TO BE PAVED : APPLICATION OF STONE SUBBASE.
- FOR AREAS TO BE VEGETATIVELY STABILIZED : PERMANENT SEED AND EROSION CONTROL MATTING FOR ALL SWALES/CHANNELS AND PERMANENT SEED AND MULCH FOR ALL OTHER AREAS.

GENERAL SHEET NOTES:

1. ALL DISTURBED AREAS SHALL BE RESTORED TO EXISTING CONDITIONS AT THE END OF CONSTRUCTION.
2. USE FILTER BAGS AS NECESSARY TO PUMP ANY NUISANCE WATER.
3. STABILIZE IMMEDIATELY ANY OFFSITE AREAS DISTURBED BY CONSTRUCTION VEHICLES OR EQUIPMENT.
4. USE SAME DAY STABILIZATION METHOD FOR ANY DISTURBANCE.
5. DISTURBANCE SHALL BE LIMITED TO THAT WHICH CAN BE STABILIZED AT THE END OF EACH WORK DAY. IN THE EVENT THAT STABILIZATION IS NOT POSSIBLE, SILT FENCE SHOULD BE INSTALLED.
6. ALL CONSTRUCTION VEHICLES AND EQUIPMENT SHALL USE RUBBER TIRES. NO TRACKED VEHICLES OR EQUIPMENT ARE PERMITTED ON SITE.
7. ANY OFFSITE AREAS DISTURBED BY CONSTRUCTION VEHICLES OR EQUIPMENT SHALL BE STABILIZED IMMEDIATELY.

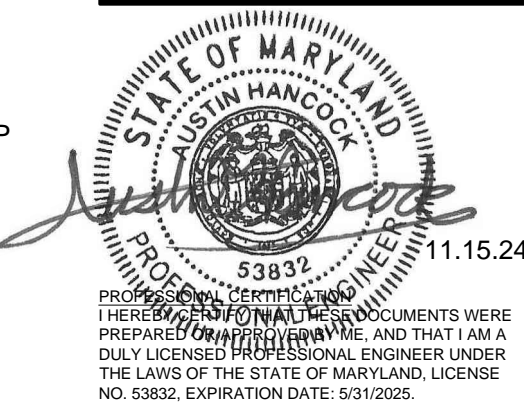
PHASING NOTE:

ALL WORK AND PHASING SHALL BE COORDINATED WITH CCPS TO ENSURE THAT CONSTRUCTION DOES NOT DISRUPT NORMAL OPERATIONS OF EXISTING ELEMENTARY SCHOOL.



LEGEND

- | | |
|--|-----------------------------------|
| | PROPERTY LINE |
| | EXISTING BUILDING |
| | EXISTING WALK |
| | EXISTING ROAD |
| | EXISTING CURB |
| | EXISTING TREES |
| | EXISTING SHRUBS |
| | EXISTING STORM DRAIN |
| | EXISTING WATER |
| | EXISTING SANITARY SEWER |
| | EXISTING TELEPHONE |
| | EXISTING ELECTRIC |
| | EXISTING OVERHEAD ELECTRIC |
| | EXISTING LIGHTING |
| | EXISTING CONTOURS |
| | EXISTING SOIL GROUP DELINEATION |
| | PROPOSED BUILDING |
| | PROPOSED BUILDING OVERHANG |
| | PROPOSED SIDEWALK |
| | PROPOSED BITUMINOUS PAVING |
| | PROPOSED CURB |
| | PROPOSED STORM DRAIN |
| | PROPOSED WATER |
| | PROPOSED CONTOURS |
| | LIMIT OF DISTURBANCE |
| | SUPER SILT FENCE |
| | COIP COMBINATION |
| | SIP-B STANDARD B INLET PROTECTION |
| | SIP-A STANDARD A |



PSC #06.038

FRIENDSHIP VALLEY ELEMENTARY SCHOOL PRE-K,
KINDERGARTEN & PRIDE SUITE ADDITIONS



CARROLL COUNTY PUBLIC SCHOOLS
1100 GIST ROAD, WESTMINSTER, MD 21157

PROJECT NO: 631374	
DATE:	
REVISIONS	
DATE	DESCRIPTION
9/18/24	CD PROGRESS SET
10/25/24	95% CD SET

FINAL PROPOSED
SEDIMENT CONTROL
PLAN

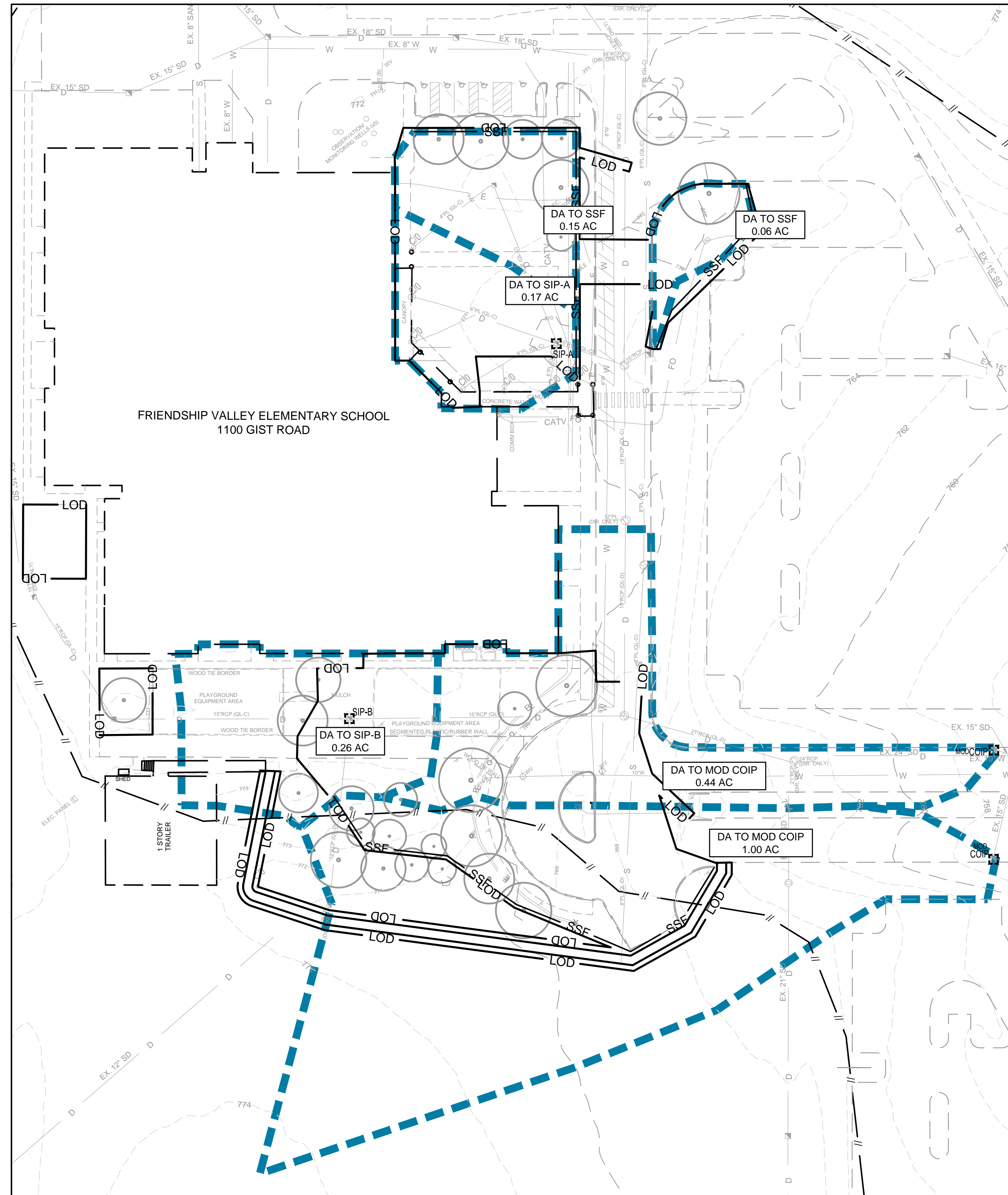
C411

SHEET 14 OF 24

LIMIT OF DISTURBANCE: 47,460 S.F./ 1.09 AC.
MARYLAND COORDINATE SYSTEM (MCS)

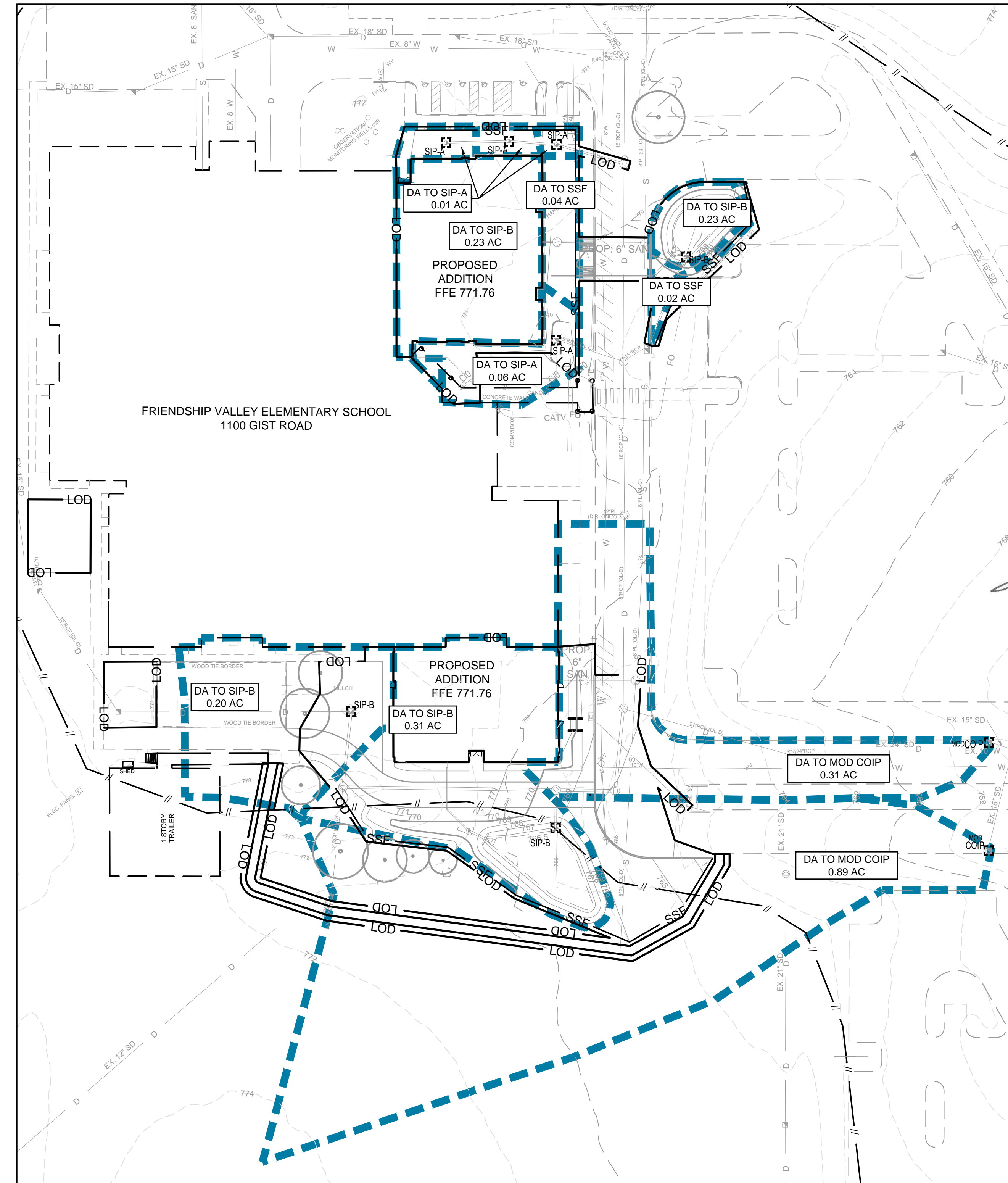
COUNTY FILE NUMBER:
S-23-0030

MOSELEYARCHITECTS
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MOSELEYARCHITECTS.COM



1 EXISTING CONDITIONS ESC DA MAP

1" = 40'

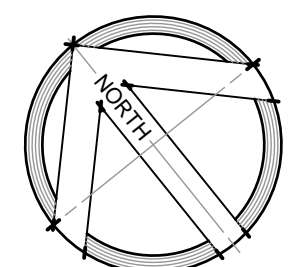
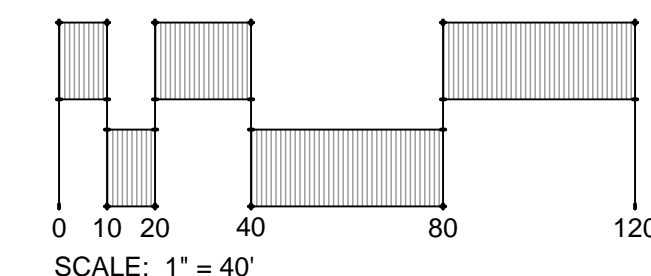


2 PROPOSED CONDITIONS ESC DA MAP

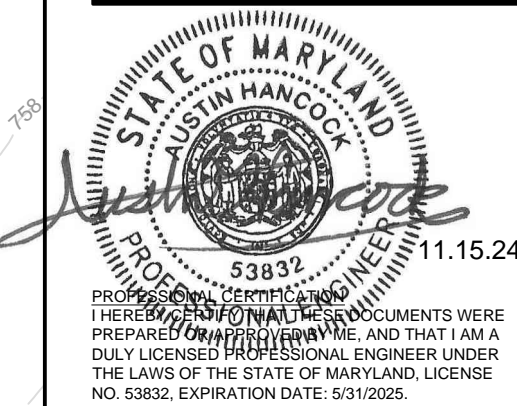
1" = 40'

LEGEND

	PROPERTY LINE		EXISTING STORM DRAIN		PROPOSED BUILDING
	EXISTING BUILDING		EXISTING WATER		PROPOSED BUILDING OVERHANG
	EXISTING WALK		EXISTING SANITARY SEWER		PROPOSED SIDEWALK
	EXISTING ROAD		EXISTING TELEPHONE		PROPOSED BITUMINOUS PAVING
	EXISTING CURB		EXISTING ELECTRIC		PROPOSED CURB
	EXISTING TREES		EXISTING OVERHEAD ELECTRIC		PROPOSED STORM DRAIN
	EXISTING SHRUBS		EXISTING LIGHTING		PROPOSED WATER
			EXISTING CONTOURS		
			EXISTING SOIL GROUP DELINEATION		
					PROPOSED CONTOURS
					LIMIT OF DISTURBANCE
					SUPER SILT FENCE
					COIP COMBINATION
					SIP-B STANDARD B
					SIP-A STANDARD A
					INLET PROTECTION
					DRAINAGE AREA



COUNTY FILE NUMBER:
S-23-0030



PSC #06.038

FRIENDSHIP VALLEY ELEMENTARY SCHOOL PRE-K,
KINDERGARTEN & PRIDE SUITE ADDITIONS

SITERESOURCES
Civil Engineering

CARROLL COUNTY PUBLIC SCHOOLS
1100 GIST ROAD, WESTMINSTER, MD 21157

PROJECT NO. 631374	DATE:
REVISIONS	
DATE	DESCRIPTION
9/18/24	CD PROGRESS SET
10/25/24	95% CD SET

FINAL ESC DA MAPS

C421

SHEET 15 OF 24

© SITE RESOURCES, INC. Z:\23023033-CCPS FRIENDSHIP VALLEY ES04+DWG(C431) ESC DETAILS AND NOTES.DWG 1/11/2024 2:46 PM amh

B-4 STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION

DEFINITION
USING VEGETATION AS COVER TO PROTECT EXPOSED SOIL FROM EROSION.

PURPOSE
TO PROMOTE THE ESTABLISHMENT OF VEGETATION ON EXPOSED SOIL.

CONDITIONS WHERE PRACTICE APPLIES
ON ALL DISTURBED AREAS NOT STABILIZED BY OTHER METHODS. THIS SPECIFICATION IS DIVIDED INTO SECTIONS ON INCREMENTAL STABILIZATION; SOIL PREPARATION, SOIL AMENDMENTS AND TOPSOILING; SEEDING AND MULCHING; TEMPORARY STABILIZATION; AND PERMANENT STABILIZATION.

EFFECTS ON WATER QUALITY AND QUANTITY
STABILIZATION PRACTICES ARE USED TO PROMOTE THE ESTABLISHMENT OF VEGETATION ON EXPOSED SOIL. WHEN SOIL IS STABILIZED WITH VEGETATION, THE SOIL IS LESS LIKELY TO ERODE AND MORE LIKELY TO ALLOW INFILTRATION OF RAINFALL, THEREBY REDUCING SEDIMENT LOADS AND RUNOFF TO DOWNSTREAM AREAS.

PLANTING VEGETATION IN DISTURBED AREAS WILL HAVE AN EFFECT ON THE WATER BUDGET, ESPECIALLY ON VOLUMES AND RATES OF RUNOFF, INFILTRATION, EVAPORATION, TRANSPIRATION, PERCOLATION, AND GROUNDWATER RECHARGE. OVER TIME, VEGETATION WILL INCREASE ORGANIC MATTER CONTENT AND IMPROVE THE WATER HOLDING CAPACITY OF THE SOIL AND SUBSEQUENT PLANT GROWTH.

VEGETATION WILL HELP REDUCE THE MOVEMENT OF SEDIMENT, NUTRIENTS, AND OTHER CHEMICALS CARRIED BY RUNOFF TO RECEIVING WATERS. PLANTS WILL ALSO HELP PROTECT GROUNDWATER SUPPLIES BY ASSIMILATING THOSE SUBSTANCES PRESENT WITHIN THE ROOT ZONE.

SEDIMENT CONTROL PRACTICES MUST REMAIN IN PLACE DURING GRADING, SEEDBED PREPARATION, SEEDING, MULCHING, AND VEGETATIVE ESTABLISHMENT.

ADEQUATE VEGETATIVE ESTABLISHMENT
INSPECT SEEDED AREAS FOR VEGETATIVE ESTABLISHMENT AND MAKE NECESSARY REPAIRS, REPLACEMENTS, AND RESEEDINGS WITHIN THE PLANTING SEASON.

1. ADEQUATE VEGETATIVE STABILIZATION REQUIRES 95 PERCENT GROUNDCOVER.
2. IF AN AREA HAS LESS THAN 40 PERCENT GROUNDCOVER, RESTABILIZE FOLLOWING THE ORIGINAL RECOMMENDATIONS FOR LIME, FERTILIZER, SEEDBED PREPARATION, AND SEEDING.
3. IF AN AREA HAS BETWEEN 40 AND 94 PERCENT GROUNDCOVER, OVER-SEED AND FERTILIZE USING HALF OF THE RATES ORIGINALLY SPECIFIED.
4. MAINTENANCE FERTILIZER RATES FOR PERMANENT SEEDING ARE SHOWN IN TABLE B.6.

B-4-1 STANDARDS AND SPECIFICATIONS FOR INCREMENTAL STABILIZATION

DEFINITION
ESTABLISHMENT OF VEGETATIVE COVER ON CUT AND FILL SLOPES.

PURPOSE
TO PROVIDE TIMELY VEGETATIVE COVER ON CUT AND FILL SLOPES AS WORK PROGRESSES.

CONDITIONS WHERE PRACTICE APPLIES
ANY CUT OR FILL SLOPE GREATER THAN 15 FEET IN HEIGHT. THIS PRACTICE ALSO APPLIES TO STOCKPILES.

- CRITERIA**
- A. INCREMENTAL STABILIZATION - CUT SLOPES**
1. EXCAVATE AND STABILIZE CUT SLOPES IN INCREMENTS NOT TO EXCEED 15 FEET IN HEIGHT. PREPARE SEEDBED AND APPLY SEED AND MULCH ON ALL CUT SLOPES AS THE WORK PROGRESSES.
 2. CONSTRUCTION SEQUENCE EXAMPLE (REFER TO FIGURE B.2):
 - a. CONSTRUCT AND STABILIZE ALL TEMPORARY SWALES OR DIKES THAT WILL BE USED TO CONVEY RUNOFF AROUND THE EXCAVATION.
 - b. PERFORM PHASE 1 EXCAVATION, PREPARE SEEDBED, AND STABILIZE.
 - c. PERFORM PHASE 2 EXCAVATION, PREPARE SEEDBED, AND STABILIZE. OVERSEED PHASE 1 AREAS AS NECESSARY.
 - d. PERFORM FINAL PHASE EXCAVATION, PREPARE SEEDBED, AND STABILIZE. OVERSEED PREVIOUSLY SEEDED AREAS AS NECESSARY.

NOTE: ONCE EXCAVATION HAS BEGUN, THE OPERATION SHOULD BE CONTINUOUS FROM GRUBBING THROUGH THE COMPLETION OF GRADING AND PLACEMENT 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.

- B. INCREMENTAL STABILIZATION - FILL SLOPES**
1. CONSTRUCT AND STABILIZE FILL SLOPES IN INCREMENTS NOT TO EXCEED 15 FEET IN HEIGHT. PREPARE SEEDBED AND APPLY SEED AND MULCH ON ALL SLOPES AS THE WORK PROGRESSES.
 2. STABILIZE SLOPES IMMEDIATELY WHEN THE VERTICAL HEIGHT OF A LIFT REACHES 15 FEET, OR WHEN THE GRADING OPERATION CEASES AS PRESCRIBED ON THE PLANS.
 3. AT THE END OF EACH DAY, INSTALL TEMPORARY WATER CONVEYANCE PRACTICE(S), AS NECESSARY, TO INTERCEPT SURFACE RUNOFF AND CONVEY IT DOWN THE SLOPE IN A NON-EROSIVE MANNER.
 4. CONSTRUCTION SEQUENCE EXAMPLE (REFER TO FIGURE B.2):
 - a. CONSTRUCT AND STABILIZE ALL TEMPORARY SWALES OR DIKES THAT WILL BE USED TO DIVERT RUNOFF AROUND THE FILL.
 - b. AT THE END OF EACH DAY, INSTALL TEMPORARY WATER CONVEYANCE PRACTICE(S), AS NECESSARY, TO INTERCEPT SURFACE RUNOFF AND CONVEY IT DOWN THE SLOPE IN A NON-EROSIVE MANNER.
 - c. PLACE PHASE 1 FILL, PREPARE SEEDBED, AND STABILIZE.
 - d. PLACE PHASE 2 FILL, PREPARE SEEDBED, AND STABILIZE.
 - e. PLACE FINAL PHASE FILL, PREPARE SEEDBED, 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 GRADING AND PLACEMENT 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.

B-4-2 STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING AND SOIL AMENDMENTS

DEFINITION
THE PROCESS OF PREPARING THE SOILS TO SUSTAIN ADEQUATE VEGETATIVE STABILIZATION.

PURPOSE
TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH.

CONDITIONS WHERE PRACTICE APPLIES
WHERE VEGETATIVE STABILIZATION IS TO BE ESTABLISHED.

- CRITERIA**
- A. SOIL PREPARATION**
1. TEMPORARY STABILIZATION
 - a. SEEDBED PREPARATION CONSISTS OF LOOSENING SOIL TO A DEPTH OF 3 TO 5 INCHES 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 LOOSEENED, IT MUST NOT BE ROLLED OR DRAGGED SMOOTH BUT LEFT IN THE ROUGHENED CONDITION. SLOPES 3:1 OR FLATTER ARE TO BE TRACKED 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 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS.
 2. PERMANENT STABILIZATION
 - a. A SOIL TEST IS REQUIRED FOR ANY EARTH DISTURBANCE OF 5 ACRES OR MORE. THE MINIMUM SOIL CONDITIONS REQUIRED FOR PERMANENT VEGETATIVE ESTABLISHMENT ARE:
 - i. SOIL PH BETWEEN 6.0 AND 7.0.
 - ii. SOLUBLE SALTS LESS THAN 500 PARTS PER MILLION (PPM).
 - iii. SOIL CONTAINS LESS THAN 40 PERCENT CLAY BUT ENOUGH FINE GRAINED MATERIAL (GREATER THAN 30 PERCENT SILT PLUS CLAY) TO PROVIDE THE CAPACITY TO HOLD A MODERATE AMOUNT OF MOISTURE, AN EXCEPTION: IF LOVEGRASS WILL BE PLANTED, THEN A SANDY SOIL (LESS THAN 30 PERCENT SILT PLUS CLAY) WOULD BE ACCEPTABLE.
 - iv. SOIL CONTAINS 1.5 PERCENT MINIMUM ORGANIC MATTER BY WEIGHT.
 - v. SOIL CONTAINS SUFFICIENT PORE SPACE TO PERMIT ADEQUATE ROOT PENETRATION.
 - b. APPLICATION OF AMENDMENTS OR TOPSOIL IS REQUIRED IF ON-SITE SOILS DO NOT MEET THE ABOVE CONDITIONS.
 - c. GRADED AREAS MUST BE MAINTAINED IN A TRUE AND EVEN GRADE AS SPECIFIED ON THE APPROVED PLAN, THEN SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF 3 TO 5 INCHES.
 - d. APPLY SOIL AMENDMENTS AS SPECIFIED ON THE APPROVED PLAN OR AS INDICATED BY THE RESULTS OF A SOIL TEST.
 - e. MIX SOIL AMENDMENTS INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS. RAKE LAWN AREAS TO SMOOTH THE SURFACE, REMOVE LARGE OBJECTS LIKE STONES AND BRANCHES, AND READY THE AREA FOR SEED APPLICATION. LOOSEN SURFACE SOIL BY DRAGGING WITH A HEAVY CHAIN OR OTHER EQUIPMENT TO ROUGHEN THE SURFACE WHERE SITE CONDITIONS WILL NOT PERMIT NORMAL SEEDBED PREPARATION. TRACK SLOPES 3:1 OR FLATTER WITH TRACKED EQUIPMENT LEAVING THE SOIL IN AN IRREGULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE. LEAVE THE TOP 1 TO 3 INCHES OF SOIL LOOSE AND FRIABLE. SEEDBED LOOSENING MAY BE UNNECESSARY ON NEWLY DISTURBED AREAS.
- B. TOPSOILING**
1. TOPSOIL IS PLACED OVER PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION. THE PURPOSE IS TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.
 2. TOPSOIL SALVAGED FROM AN EXISTING SITE MAY BE USED PROVIDED IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-NRCS.
 3. TOPSOILING IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:
 - a. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.
 - b. THE SOIL MAKE UNUSUALLY SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.
 - c. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
 - d. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.
 - e. AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN.
 5. TOPSOIL SPECIFICATIONS: SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING CRITERIA:
 - a. TOPSOIL MUST BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, OR LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. TOPSOIL MUST NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND MUST CONTAIN LESS THAN 5 PERCENT BY VOLUME OF CINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1½ INCHES IN DIAMETER.
 - b. TOPSOIL MUST BE FREE OF NOXIOUS PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACK GRASS, JOHNSON GRASS, NUT SEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
 - c. TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL.
 6. TOPSOIL APPLICATION
 - a. EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED WHEN APPLYING TOPSOIL.
 - b. UNIFORMLY DISTRIBUTE TOPSOIL IN A 5 TO 8 INCH LAYER AND LIGHTLY COMPACT TO A MINIMUM THICKNESS OF 4 INCHES. SPREADING IS TO BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS MUST BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.
 - c. TOPSOIL MUST NOT BE PLACED IF THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.
- C. SOIL AMENDMENTS (FERTILIZER AND LIME SPECIFICATIONS)**
1. SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATIOS AND APPLICATION RATES FOR BOTH LIME AND FERTILIZER ON SITES HAVING DISTURBED AREAS OF 5 ACRES OR MORE. SOIL ANALYSIS MAY BE PERFORMED BY A RECOGNIZED PRIVATE OR COMMERCIAL LABORATORY. SOIL SAMPLES TAKEN FOR ENGINEERING PURPOSES MAY ALSO BE USED FOR CHEMICAL ANALYSES.
 2. FERTILIZERS MUST BE UNIFORM IN COMPOSITION, FREE FLOWING AND SUITABLE FOR ACCURATE APPLICATION BY APPROPRIATE EQUIPMENT. MANURE MAY BE SUBSTITUTED FOR FERTILIZER WITH PRIOR APPROVAL FROM THE APPROPRIATE APPROVAL AUTHORITY. FERTILIZERS MUST ALL BE DELIVERED TO THE SITE FULLY LABELED ACCORDING TO THE APPLICABLE LAWS AND MUST BEAR THE NAME, TRADE NAME OR TRADEMARK AND WARRANTY OF THE PRODUCER.
 3. LIME MATERIALS MUST BE GROUND LIMESTONE (HYDRATED OR BURNT LIME MAY BE SUBSTITUTED EXCEPT WHEN HYDROSEEDING) WHICH CONTAINS AT LEAST 50 PERCENT TOTAL OXIDES (CALCIUM OXIDE PLUS MAGNESIUM OXIDE). LIMESTONE MUST BE GROUND TO SUCH FINENESS THAT AT LEAST 50 PERCENT WILL PASS THROUGH A #100 MESH SIEVE AND 98 TO 100 PERCENT WILL PASS THROUGH A #20 MESH SIEVE.
 4. LIME AND FERTILIZER ARE TO BE EVENLY DISTRIBUTED AND INCORPORATED INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS.
 5. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, SPREAD GROUND LIMESTONE AT THE RATE OF 4 TO 8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL.

B-4-3 STANDARDS AND SPECIFICATIONS FOR SEEDING AND MULCHING

DEFINITION
THE APPLICATION OF SEED AND MULCH TO ESTABLISH VEGETATIVE COVER.

PURPOSE
TO PROTECT DISTURBED SOILS FROM EROSION DURING AND AT THE END OF CONSTRUCTION.

CONDITIONS WHERE PRACTICE APPLIES
TO THE SURFACE OF ALL PERIMETER CONTROLS, SLOPES, AND ANY DISTURBED AREA NOT UNDER ACTIVE GRADING.

- CRITERIA**
- A. SEEDING**
1. SPECIFICATIONS
 - a. ALL SEED MUST MEET THE REQUIREMENTS OF THE MARYLAND STATE SEED LAW. ALL SEED MUST BE SUBJECT TO RE-TESTING BY A RECOGNIZED SEED LABORATORY. ALL SEED USED MUST HAVE BEEN TESTED WITHIN THE 6 MONTHS IMMEDIATELY PRECEDING THE DATE OF SOWING SUCH MATERIAL ON ANY PROJECT. REFER TO TABLE B.4 REGARDING THE QUALITY OF SEED. SEED TAGS MUST BE AVAILABLE UPON REQUEST TO THE INSPECTOR TO VERIFY TYPE OF SEED AND SEEDING RATE. MULCH ALONE MAY BE APPLIED BETWEEN THE FALL AND SPRING SEEDING DATES ONLY IF THE GROUND IS FROZEN. THE APPROPRIATE SEEDING MIXTURE MUST BE APPLIED WHEN THE GROUND THAWS.
 - b. INOCULANTS: THE INOCULANT FOR TREATING LEGUME SEED IN THE SEED MIXTURES MUST BE A PURE CULTURE OF NITROGEN FIXING BACTERIA PREPARED SPECIFICALLY FOR THE SPECIES. INOCULANTS MUST NOT BE USED LATER THAN THE DATE INDICATED ON THE CONTAINER. ADD FRESH INOCULANTS AS DIRECTED ON THE PACKAGE. USE FOUR TIMES THE RECOMMENDED RATE WHEN HYDROSEEDING. NOTE: IT IS VERY IMPORTANT TO KEEP INOCULANT AS COOL AS POSSIBLE UNTIL USED. TEMPERATURES ABOVE 75 TO 80 DEGREES FAHRENHEIT CAN WEAKEN BACTERIA AND MAKE THE INOCULANT LESS EFFECTIVE.
 - c. SOD OR SEED MUST NOT BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME HAS ELAPSED (14 DAYS MIN.) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS.
 2. APPLICATION
 - a. DRY SEEDING: THIS INCLUDES USE OF CONVENTIONAL DROP OR BROADCAST SPREADERS.
 - i. INCORPORATE SEED INTO THE SUBSOIL AT THE RATES PRESCRIBED ON TEMPORARY SEEDING TABLE B.1, PERMANENT SEEDING TABLE B.3, OR SITE-SPECIFIC SEEDING SUMMARIES.
 - ii. APPLY SEED IN TWO DIRECTIONS, PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING RATE IN EACH DIRECTION. ROLL THE SEEDED AREA WITH A WEIGHTED ROLLER TO PROVIDE GOOD SEED TO SOIL CONTACT.
 - b. DRILL OR CULTIPACKER SEEDING: MECHANIZED SEEDERS THAT APPLY AND COVER SEED WITH SOIL. CULTIPACKING 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.
 - c. HYDROSEEDING: APPLY SEED UNIFORMLY WITH HYDROSEEDER (SLURRY INCLUDES SEED AND FERTILIZER).
 - i. IF FERTILIZER IS BEING APPLIED AT THE TIME OF SEEDING, THE APPLICATION RATES SHOULD NOT EXCEED THE FOLLOWING: NITROGEN, 100 POUNDS PER ACRE TOTAL OF SOLUBLE NITROGEN; P2O5 (PHOSPHOROUS), 200 POUNDS PER ACRE; K2O (POTASSIUM), 200 POUNDS PER ACRE.
 - ii. 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.
 - iii. MIX SEED AND FERTILIZER ON SITE AND SEED IMMEDIATELY AND WITHOUT INTERRUPTION.
 - iv. WHEN HYDROSEEDING DO NOT INCORPORATE SEED INTO THE SOIL.
- B. MULCHING**
1. MULCH MATERIALS (IN ORDER OF PREFERENCE)
 - a. STRAW CONSISTING OF THOROUGHLY THRESHED WHEAT, RYE, OAT, OR BARLEY AND REASONABLY BRIGHT IN COLOR. STRAW IS TO BE FREE OF NOXIOUS WEED SEEDS AS SPECIFIED IN THE MARYLAND SEED LAW AND NOT MUSTY, MOLDY, CAKED, DECAYED, OR EXCESSIVELY DUSTY. NOTE: USE ONLY STERILE STRAW MULCH IN AREAS WHERE ONE SPECIES OF GRASS IS DESIRED.
 - b. WOOD CELLULOSE FIBER MULCH (WCFM) CONSISTING OF SPECIALLY PREPARED WOOD CELLULOSE PROCESSED INTO A UNIFORM FIBROUS PHYSICAL STATE.
 - i. WCFM IS TO BE DYED GREEN OR CONTAIN A GREEN DYE IN THE PACKAGE THAT WILL PROVIDE AN APPROPRIATE COLOR TO FACILITATE VISUAL INSPECTION OF THE UNIFORMLY SPREAD SLURRY.
 - ii. WCFM, INCLUDING DYE, MUST CONTAIN NO GERMINATION OR GROWTH INHIBITING FACTORS. WCFM MATERIALS ARE TO 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 MUST FORM A BLOTTER-LIKE GROUND COVER, ON APPLICATION, HAVING MOISTURE ABSORPTION AND PERCOLATION PROPERTIES AND MUST COVER AND HOLD GRASS SEED IN CONTACT WITH THE SOIL WITHOUT INHIBITING THE GROWTH OF THE GRASS SEEDLINGS.
 - iv. WCFM MATERIAL MUST NOT CONTAIN ELEMENTS OR COMPOUNDS AT CONCENTRATION LEVELS THAT WILL BE PHYTO-TOXIC.
 - v. WCFM MUST CONFORM TO THE FOLLOWING PHYSICAL REQUIREMENTS: FIBER LENGTH OF APPROXIMATELY 10 MILLIMETERS, DIAMETER APPROXIMATELY 1 MILLIMETER, PH RANGE OF 4.0 TO 8.5, ASH CONTENT OF 1.6 PERCENT MAXIMUM AND WATER HOLDING CAPACITY OF 90 PERCENT MINIMUM.
 2. APPLICATION
 - a. APPLY MULCH TO ALL SEEDED AREAS IMMEDIATELY AFTER SEEDING.
 - b. WHEN STRAW MULCH IS USED, SPREAD IT OVER ALL SEEDED AREAS AT THE RATE OF 2 TONS PER ACRE TO A UNIFORM LOOSE DEPTH OF 1 TO 2 INCHES. APPLY MULCH TO ACHIEVE A UNIFORM DISTRIBUTION AND DEPTH SO THAT THE SOIL SURFACE IS NOT EXPOSED. WHEN USING A MULCH ANCHORING TOOL, INCREASE THE APPLICATION RATE TO 2.5 TONS PER ACRE.
 - c. WOOD CELLULOSE FIBER USED AS MULCH MUST BE APPLIED AT A NET DRY WEIGHT OF 1500 POUNDS PER ACRE. MIX THE WOOD CELLULOSE FIBER WITH WATER TO ATTAIN A MIXTURE WITH A MAXIMUM OF 50 POUNDS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER.
 3. ANCHORING
 - a. PERFORM MULCH ANCHORING IMMEDIATELY FOLLOWING APPLICATION OF MULCH TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS (LISTED BY PREFERENCE), DEPENDING UPON THE SIZE OF THE AREA AND EROSION HAZARD:
 - i. A MULCH ANCHORING TOOL IS A TRACTOR DRAWN IMPLEMENT DESIGNED TO PUNCH AND ANCHOR MULCH INTO THE SOIL SURFACE A MINIMUM OF 2 INCHES. THIS PRACTICE IS MOST EFFECTIVE ON LARGE AREAS, BUT IS LIMITED TO FLATTER SLOPES WHERE EQUIPMENT CAN OPERATE SAFELY. IF USED ON SLOPING LAND, THIS PRACTICE SHOULD FOLLOW THE CONTOUR.
 - ii. WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. APPLY THE FIBER BINDER AT A NET DRY WEIGHT OF 750 POUNDS PER ACRE. MIX THE WOOD CELLULOSE FIBER WITH WATER AT A MAXIMUM OF 50 POUNDS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER.
 - iii. SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRO-TACK), DCA-70, PETROSEAL, TERRA TAX II, TERRA TACK AR OR OTHER APPROVED EQUAL MAY BE USED. FOLLOW APPLICATION RATES AS SPECIFIED BY THE MANUFACTURER. APPLICATION OF LIQUID BINDERS NEEDS TO BE HEAVIER AT THE EDGES WHERE WIND CATCHES MULCH, SUCH AS IN VALLEYS AND ON CRESTS OF BANKS. USE OF ASPHALT BINDERS IS STRICTLY PROHIBITED.
 - iv. LIGHTWEIGHT PLASTIC NETTING MAY BE STAPLED OVER THE MULCH ACCORDING TO MANUFACTURER RECOMMENDATIONS. NETTING IS USUALLY AVAILABLE IN ROLLS 4 TO 15 FEET WIDE AND 300 TO 3,000 FEET LONG.

B-4-5 STANDARDS AND SPECIFICATIONS FOR PERMANENT STABILIZATION

DEFINITION
TO STABILIZE DISTURBED SOILS WITH PERMANENT VEGETATION.

PURPOSE
TO USE LONG-LIVED PERENNIAL GRASSES AND LEGUMES TO ESTABLISH PERMANENT GROUND COVER ON DISTURBED SOILS.

CONDITIONS WHERE PRACTICE APPLIES
EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR 6 MONTHS OR MORE.

- CRITERIA**
- A. SEED MIXTURES**
1. GENERAL USE
 - a. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED IN TABLE B.3 FOR THE APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE B.3) AND BASED ON THE SITE CONDITION OR PURPOSE FOUND ON TABLE B.2. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY. THE SUMMARY IS TO BE PLACED ON THE PLAN.
 - b. ADDITIONAL PLANTING SPECIFICATIONS FOR EXCEPTIONAL SITES SUCH AS SHORELINES, STREAM BANKS, OR DUNES OR FOR SPECIAL PURPOSES SUCH AS WILDLIFE OR AESTHETIC TREATMENT MAY BE FOUND IN USDA-NRCS TECHNICAL FIELD OFFICE GUIDE, SECTION 342 - CRITICAL AREA PLANTING.
 - c. FOR SITES HAVING DISTURBED AREA OVER 5 ACRES, USE AND SHOW THE RATES RECOMMENDED BY THE SOIL TESTING AGENCY.
 - d. FOR AREAS RECEIVING LOW MAINTENANCE, APPLY UREA FORM FERTILIZER (46-0-0) AT 3 ½ POUNDS PER 1000 SQUARE FEET (150 POUNDS PER ACRE) AT THE TIME OF SEEDING IN ADDITION TO THE SOIL AMENDMENTS SHOWN IN THE PERMANENT SEEDING SUMMARY.
 2. TURFGRASS MIXTURES
 - a. AREAS WHERE TURFGRASS MAY BE DESIRED INCLUDE LAWNS, PARKS, PLAYGROUNDS, AND COMMERCIAL SITES WHICH WILL RECEIVE A MEDIUM TO HIGH LEVEL OF MAINTENANCE.
 - b. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED BELOW BASED ON THE SITE CONDITIONS OR PURPOSE. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY. THE SUMMARY IS TO BE PLACED ON THE PLAN.
 - i. KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN AREAS THAT RECEIVE INTENSIVE MANAGEMENT. IRRIGATION REQUIRED IN THE AREAS OF CENTRAL MARYLAND AND EASTERN SHORE. RECOMMENDED CERTIFIED KENTUCKY BLUEGRASS CULTIVARS SEEDING RATE: 1.5 TO 2.0 POUNDS PER 1000 SQUARE FEET. CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT.
 - ii. KENTUCKY BLUEGRASS/PERENNIAL RYE: FULL SUN MIXTURE: FOR USE IN FULL SUN AREAS WHERE RAPID ESTABLISHMENT IS NECESSARY AND WHEN TURF WILL RECEIVE MEDIUM TO INTENSIVE MANAGEMENT. CERTIFIED PERENNIAL RYEGRASS CULTIVARS/CERTIFIED KENTUCKY BLUEGRASS SEEDING RATE: 2 POUNDS MIXTURE PER 1000 SQUARE FEET. CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT.
 - iii. TALL FESCUE/KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN DROUGHT-PRONE AREAS AND/OR FOR AREAS RECEIVING LOW TO MEDIUM MANAGEMENT IN FULL SUN TO MEDIUM SHADE. RECOMMENDED MIXTURE INCLUDES: CERTIFIED TALL FESCUE CULTIVARS 95 TO 100 PERCENT, CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 0 TO 5 PERCENT. SEEDING RATE: 5 TO 8 POUNDS PER 1000 SQUARE FEET. ONE OR MORE CULTIVARS MAY BE BLENDED.
 - iv. KENTUCKY BLUEGRASS/FINE FESCUE: SHADE MIXTURE: FOR USE IN AREAS WITH SHADE IN BLUEGRASS LAWNS. FOR ESTABLISHMENT IN HIGH QUALITY, INTENSIVELY MANAGED TURF AREA, MIXTURE INCLUDES: CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 30 TO 40 PERCENT AND CERTIFIED FINE FESCUE AND 60 TO 70 PERCENT. SEEDING RATE: 1½ TO 3 POUNDS PER 1000 SQUARE FEET.

NOTES:
SELECT TURFGRASS VARIETIES FROM THOSE LISTED IN THE MOST CURRENT UNIVERSITY OF MARYLAND PUBLICATION, AGRONOMY MEMO #77, TURFGRASS CULTIVAR RECOMMENDATIONS FOR MARYLAND."

CHOOSE CERTIFIED MATERIAL. CERTIFIED MATERIAL IS THE BEST GUARANTEE OF CULTIVAR PURITY. THE CERTIFICATION PROGRAM OF THE MARYLAND DEPARTMENT OF AGRICULTURE, TURF AND SEED SECTION, PROVIDES A RELIABLE MEANS OF CONSUMER PROTECTION AND ASSURES A PURE GENETIC LINE.

- c. IDEAL TIMES OF SEEDING FOR TURF GRASS MIXTURES WESTERN MD: MARCH 15 TO JUNE 1, AUGUST 1 TO OCTOBER 1 (HARDINESS ZONES: 5B, 6A) CENTRAL MD: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDINESS ZONE: 6B) SOUTHERN MD, EASTERN SHORE: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDINESS ZONES: 7A, 7B)
- d. TILL AREAS TO RECEIVE SEED BY DISKING OR OTHER APPROVED METHODS TO A DEPTH OF 2 TO 4 INCHES. LEVEL AND RAKE THE AREAS TO PREPARE A PROPER SEEDBED. REMOVE STONES AND DEBRIS OVER 1 1/2 INCHES IN DIAMETER. THE RESULTING SEEDBED MUST BE IN SUCH CONDITION THAT FUTURE MOWING OF GRASSES WILL POSE NO DIFFICULTY.
- e. IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER FOR PLANT GROWTH (1/2 TO 1 INCH EVERY 3 TO 4 DAYS DEPENDING ON SOIL TEXTURE) UNTIL THEY ARE FIRMLY ESTABLISHED. THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE MADE LATE IN THE PLANTING SEASON, IN ABNORMALLY DRY OR HOT SEASONS, OR ON ADVERSE SITES.

PERMANENT SEEDING SUMMARY

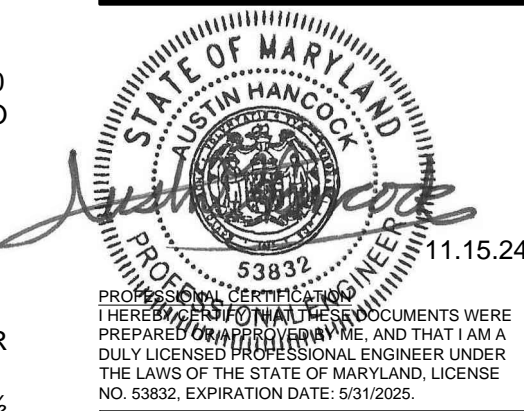
HARDINESS ZONE <u>7A</u>					FERTILIZER RATE (10-20-20)			LIME RATE
NO.	SPECIES	APPLICATION RATE (LB/AC)	SEEDING DATES	SEEDING DEPTHS	N	P ₂ O ₅	K ₂ O	
---	TALL FESCUE*	285 LB/AC**	3/1 - 5/15 8/15 - 10/15	1/4" - 1/2"	45 LB/AC (1.0 LB/ 1000SF)	90 LB/AC (2 LB/ 1000 SF)	90 LB/AC (2 LB/ 1000 SF)	2 TONS/AC (90LB/ 1000 SF)
	KENTUCKY BLUEGRASS*	15 LB/AC	3/1 - 5/15 8/15 - 10/15	1/4" - 1/2"				

* SELECT TURFGRASS VARIETIES FROM THOSE LISTED AS ELIGIBLE "RECOMMENDED VARIETIES" CONTAINED IN THE CURRENT "MARYLAND TURFGRASS VARIETY LIST" PUBLISHED BY THE STATE OF MARYLAND, DEPARTMENT OF AGRICULTURE (MDA), TURF & SEED ADMINISTRATION.

** FOR TALL FESCUE CHOOSE 3 PROVEN CULTIVARS TO BE USED IN EQUAL PROPORTIONS IN THE SEED MIX.

*** SEE 2011 MD STANDARDS & SPECIFICATIONS FOR SOIL EROSION & SEDIMENT CONTROL, SECTION B-4-5, PARAGRAPH 4.2.B.III FOR TURFGRASS MIXTURE AND RATE AND PARAGRAPH 4.2.C FOR TURFGRASS SEEDING DATES.

- B. SOD: TO PROVIDE QUICK COVER ON DISTURBED AREAS (2:1 GRADE OR FLATTER).**
1. GENERAL SPECIFICATIONS
 - a. CLASS OF TURFGRASS SOD MUST BE MARYLAND STATE CERTIFIED. SOD LABELS MUST BE MADE AVAILABLE TO THE JOB FOREMAN AND INSPECTOR.
 - b. SOD MUST BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF ¾ INCH, PLUS OR MINUS ¼ INCH, AT THE TIME OF CUTTING. MEASUREMENT FOR THICKNESS MUST EXCLUDE TOP GROWTH AND THATCH. BROKEN PADS AND TORN OR UNEVEN ENDS WILL NOT BE ACCEPTABLE.
 - c. STANDARD SIZE SECTIONS OF SOD MUST BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP ON THE UPPER 10 PERCENT OF THE SECTION. SOD MUST NOT BE HARVESTED OR TRANSPLANTED WHEN MOISTURE CONTENT (EXCESSIVELY DRY OR WET) MAY ADVERSELY AFFECT ITS SURVIVAL.
 - d. SOD MUST BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD NOT TRANSPLANTED WITHIN THIS PERIOD MUST BE APPROVED BY AN AGRONOMIST OR SOIL SCIENTIST PRIOR TO ITS INSTALLATION.
 2. SOD INSTALLATION
 - a. DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURE OR IN AREAS HAVING DRY SUBSOIL, LIGHTLY IRRIGATE THE SUBSOIL IMMEDIATELY PRIOR TO LAYING THE SOD.
 - b. LAY THE FIRST ROW OF SOD IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO IT AND TIGHTLY WEDGED AGAINST EACH OTHER. STAGGER LATERAL JOINTS TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH. ENSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDING WHICH WOULD CAUSE DRYING OF THE ROOTS.
 - c. WHEREVER POSSIBLE, LAY SOD WITH THE LONG EDGES PARALLEL TO THE CONTOUR AND WITH STAGGERING JOINTS. ROLL AND TAMP. PEG OR OTHERWISE SECURE THE SOD TO PREVENT SLIPPAGE ON SLOPES. ENSURE SOLID CONTACT EXISTS BETWEEN SOD ROOTS AND THE UNDERLYING SOIL SURFACE.
 - d. WATER THE SOD IMMEDIATELY FOLLOWING ROLLING AND TAMPING UNTIL THE UNDERSIDE OF THE NEW SOD PAD AND SOIL SURFACE BELOW THE SOD ARE THOROUGHLY WET. COMPLETE THE OPERATIONS OF LAYING, TAMPING AND IRRIGATING FOR ANY PIECE OF SOD WITHIN EIGHT HOURS.
 3. SOD MAINTENANCE
 - a. IN THE ABSENCE OF ADEQUATE RAINFALL, WATER DAILY DURING THE FIRST WEEK OR AS OFTEN AND SUFFICIENTLY AS NECESSARY TO MAINTAIN MOIST SOIL TO A DEPTH OF 4 INCHES. WATER SOD DURING THE HEAT OF THE DAY TO PREVENT WILTING.
 - b. AFTER THE FIRST WEEK, SOD WATERING IS REQUIRED AS NECESSARY TO MAINTAIN ADEQUATE MOISTURE CONTENT. DO NOT MOW UNTIL THE SOD IS FIRMLY ROOTED. NO MORE THAN 1/3 OF THE GRASS LEAF MUST BE REMOVED BY THE INITIAL CUTTING OR SUBSEQUENT CUTTINGS. MAINTAIN A GRASS HEIGHT OF AT LEAST 3 INCHES UNLESS OTHERWISE SPECIFIED.
 - c.



PSC #06.038

FRIENDSHIP VALLEY ELEMENTARY SCHOOL PRE-K, KINDERGARTEN & PRIDE SUITE ADDITIONS



CARROLL COUNTY PUBLIC SCHOOLS
1100 GIST ROAD, WESTMINSTER, MD 21157

PROJECT NO: 631374	
DATE:	
	REVISIONS
DATE	DESCRIPTION
9/18/24	CD PROGRESS SET
10/25/24	95% CD SET

ESC NOTES

COUNTY FILE NUMBER:
S-23-0030

C431

SHEET 16 OF 24

INLET PROTECTION NOTE

THE CONTRACTOR IS REQUIRED TO INSTALL INLET PROTECTION ON ALL STORM DRAIN INLETS WITH THE EXCEPTION OF THE FOLLOWING:

1. ANY INLET OUTFALLING DIRECTLY INTO A SEDIMENT TRAPPING DEVICE.
2. INLETS ON PRIVATE OR PUBLIC PAVED ROADWAYS OPEN TO THE PUBLIC.

ALL INLET PROTECTION WILL BE INSTALLED AS DIRECTED BY THE INSPECTOR IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, PAGE E.23 (OR AS MAY BE AMENDED). THE REMOVAL OF ANY INLET PROTECTION DEVICES WILL REQUIRE APPROVAL FROM THE INSPECTOR.

*STORM DRAINS TO BE FLUSHED PRIOR TO TRAPPING DEVICE REMOVAL.

TEMPORARY STOCKPILE NOTE

Temporary stockpiles shall be:

1. Located within the limit of disturbance (LOD).
2. Drain to a functioning sediment control device.
3. Positioned to not impede upon, or impair the function of said devices.
4. Positioned to not alter drainage divides.

MAINTENANCE NOTE

Contractor shall inspect and maintain all sediment control measures and devices after every storm event. Maintenance shall include, but not be limited to the removal of all accumulated sediment. Geotextile fabric shall be replaced as needed to ensure proper function.

UTILITY NOTE:

1. Contractor should open only that section of trench that can be backfilled and stabilized each day. If trench must remain open longer than one day, silt fence shall be placed below (downslope) of the trench.
2. Place all excavated material on uphill side of trench.
3. Any sediment controls disturbed by utility construction is to be repaired immediately.

B-4-4 STANDARDS AND SPECIFICATIONS FOR TEMPORARY STABILIZATION

DEFINITION

TO STABILIZE DISTURBED SOILS WITH VEGETATION FOR UP TO 6 MONTHS.

PURPOSE

TO USE FAST GROWING VEGETATION THAT PROVIDES COVER ON DISTURBED SOILS.

CONDITIONS WHERE PRACTICE APPLIES

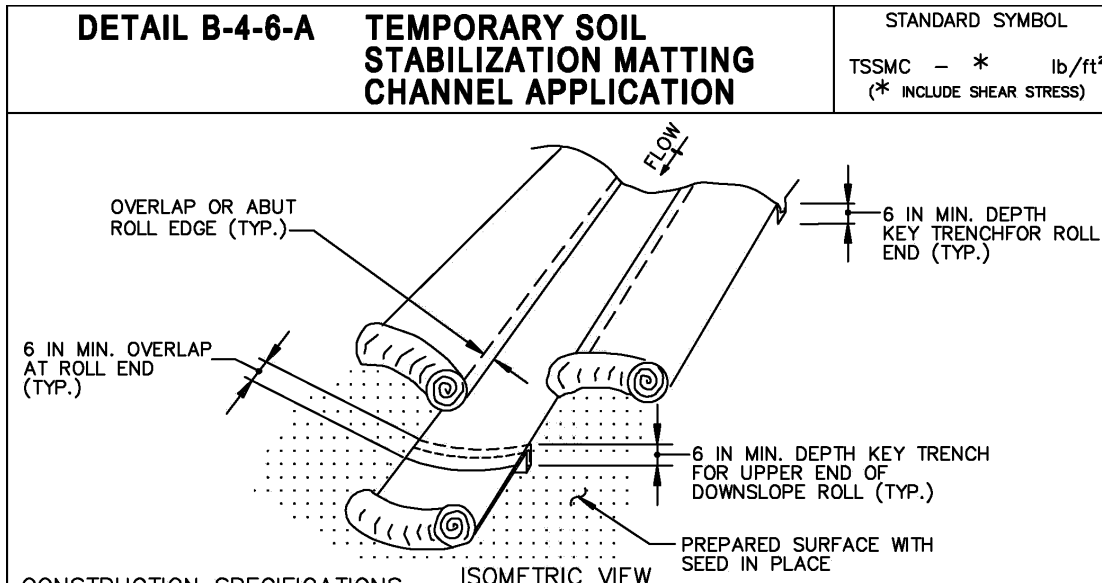
EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR A PERIOD OF 6 MONTHS OR LESS. FOR LONGER DURATION OF TIME, PERMANENT STABILIZATION PRACTICES ARE REQUIRED.

CRITERIA

1. SELECT ONE OR MORE OF THE SPECIES OR SEED MIXTURES LISTED IN TABLE B.1 FOR THE APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE B.3), AND ENTER THEM IN THE TEMPORARY SEEDING SUMMARY BELOW ALONG WITH APPLICATION RATES, SEEDING DATES AND SEEDING DEPTHS. IF THIS SUMMARY IS NOT PUT ON THE PLAN AND COMPLETED, THEN TABLE B.1 PLUS FERTILIZER AND LIME RATES MUST BE PUT ON THE PLAN.
2. FOR SITES HAVING SOIL TESTS PERFORMED, USE AND SHOW THE RECOMMENDED RATES BY THE TESTING AGENCY. SOIL TESTS ARE NOT REQUIRED FOR TEMPORARY SEEDING.
3. WHEN STABILIZATION IS REQUIRED OUTSIDE OF A SEEDING SEASON, APPLY SEED AND MULCH OR STRAW MULCH ALONE AS PRESCRIBED IN SECTION B-4-3.A.1.B AND MAINTAIN UNTIL THE NEXT SEEDING SEASON.

TEMPORARY SEEDING SUMMARY

HARDINESS ZONE 7A					
SPECIES	APPLICATION RATE (LBS./AC.)	SEEDING DATES	SEEDING DEPTH	FERTILIZER RATE (10-20-20)	LIME RATE
ANNUAL RYEGRASS	40 LBS./AC.	2/15 - 4/30 8/15 - 11/30	½"	436 LB./AC. (10 LB./1000 S.F.)	2 TONS/AC. (90 LB./1000 S.F.)
FOXTAIL MILLET	30 LBS./AC.	5/1 - 8/14	½"		



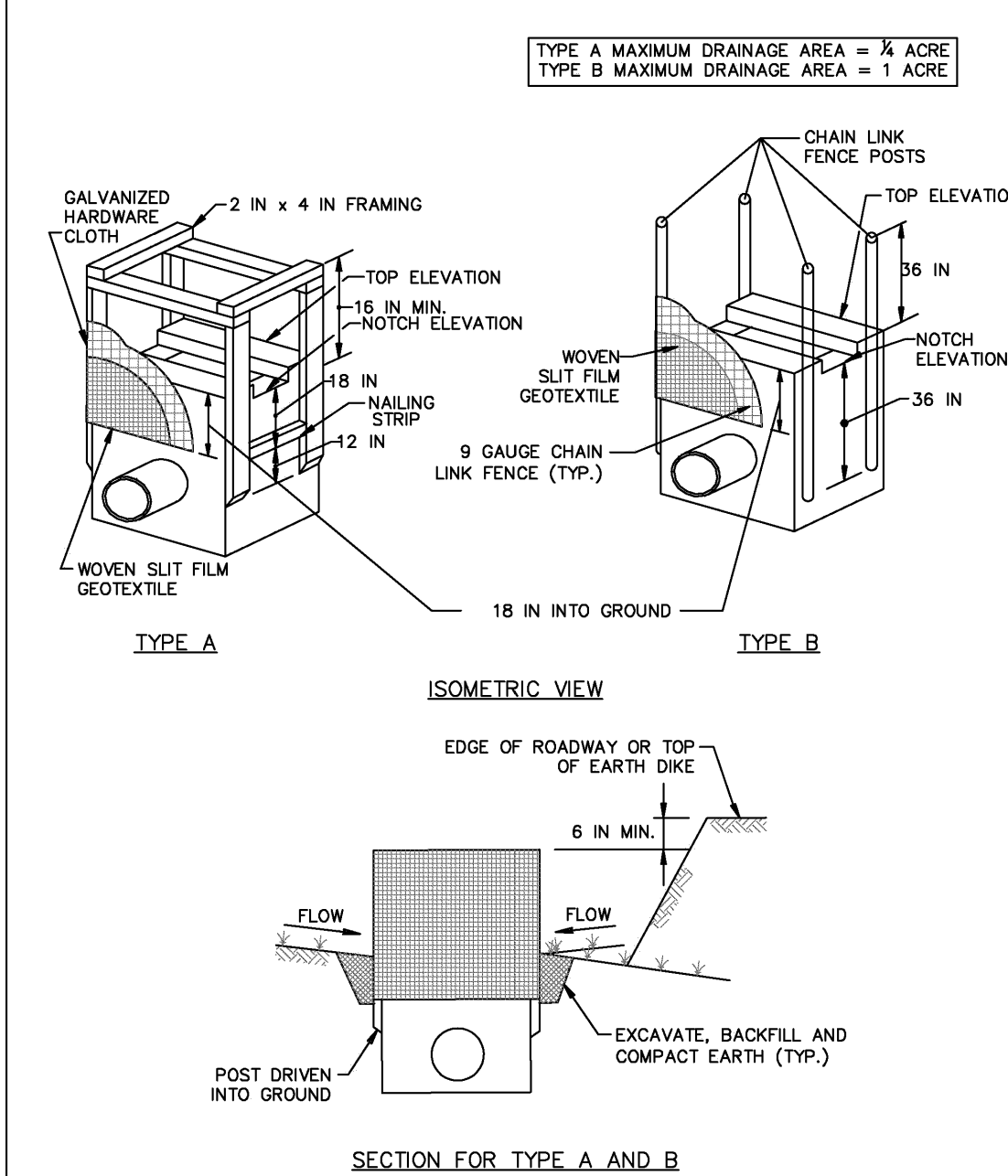
CONSTRUCTION SPECIFICATIONS

1. USE MATTING THAT HAS A DESIGN VALUE FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DESIGNATED ON APPROVED PLANS.
2. USE TEMPORARY SOIL STABILIZATION MATTING MADE OF DEGRADABLE (LASTS 6 MONTHS MINIMUM) NATURAL OR MAN-MADE FIBERS (MOSTLY ORGANIC). MAT MUST HAVE UNIFORM THICKNESS AND DISTRIBUTION OF FIBERS THROUGHOUT AND BE SMOLDER RESISTANT. CHEMICALS USED IN THE MAT MUST BE NON-LEACHING AND NON-TOXIC TO VEGETATION AND SEED GERMINATION AND NON-INJURIOUS TO THE SKIN. IF PRESENT, NETTING MUST BE EXTRUDED PLASTIC WITH A MAXIMUM MESH OPENING OF 2x2 INCHES AND SUFFICIENTLY BONDED OR SEWN ON 2 INCH CENTERS ALONG LONGITUDINAL AXIS OF THE MATERIAL TO PREVENT SEPARATION OF THE NET FROM THE PARENT MATERIAL.
3. SECURE MATTING USING STEEL STAPLES, WOOD STAKES, OR BIODEGRADABLE EQUIVALENT. STAPLES MUST BE "U" OR "T" SHAPED STEEL WIRE HAVING A MINIMUM GAUGE OF NO. 11 AND NO. 8 RESPECTIVELY. "U" SHAPED STAPLES MUST AVERAGE 1 TO 1½ INCHES WIDE AND BE A MINIMUM OF 6 INCHES LONG. "T" SHAPED STAPLES MUST HAVE A MINIMUM 8 INCH MAIN LEG, A MINIMUM 1 INCH SECONDARY LEG, AND A MINIMUM 4 INCH HEAD. WOOD STAKES MUST BE ROUGH-SAWN HARDWOOD, 12 TO 24 INCHES IN LENGTH, 1x3 INCH IN CROSS SECTION, AND WEDGE SHAPED AT THE BOTTOM.
4. PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDED PREPARATION, AND PERMANENT SEEDING IN ACCORDANCE WITH SPECIFICATIONS. PLACE MATTING WITHIN 48 HOURS OF COMPLETING SEEDING OPERATIONS UNLESS END OF WORKDAY STABILIZATION IS SPECIFIED ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
5. UNROLL MATTING IN DIRECTION OF WATER FLOW, CENTERING THE FIRST ROLL ON THE CHANNEL CENTERLINE, WORK FROM CENTER OF CHANNEL OUTWARD WHEN PLACING ROLLS. LAY MAT SMOOTHLY AND FIRMLY ON THE SEEDED SURFACE, AVOID STRETCHING THE MATTING.
6. KEY-IN UPSTREAM END OF EACH MAT ROLL BY DIGGING A 6 INCH (MINIMUM) TRENCH AT THE UPSTREAM END OF THE MATTING, PLACING THE ROLL END IN THE TRENCH, STAPLING THE MAT IN PLACE, REPLACING THE EXCAVATED MATERIAL, AND TAMPING TO SECURE THE MAT END.
7. OVERLAP OR ABUT THE ROLL EDGES PER MANUFACTURER RECOMMENDATIONS. OVERLAP ROLL ENDS BY 6 INCHES (MINIMUM) WITH THE UPSTREAM MAT OVERLAPPING ON TOP OF THE DOWNSLOPE MAT.
8. STAPLE/STAKE MAT IN A STAGGERED PATTERN ON 4 FOOT (MAXIMUM) CENTERS THROUGHOUT AND 2 FOOT (MAXIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL ENDS.
9. ESTABLISH AND MAINTAIN VEGETATION SO THAT REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT ARE CONTINUOUSLY MET IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.

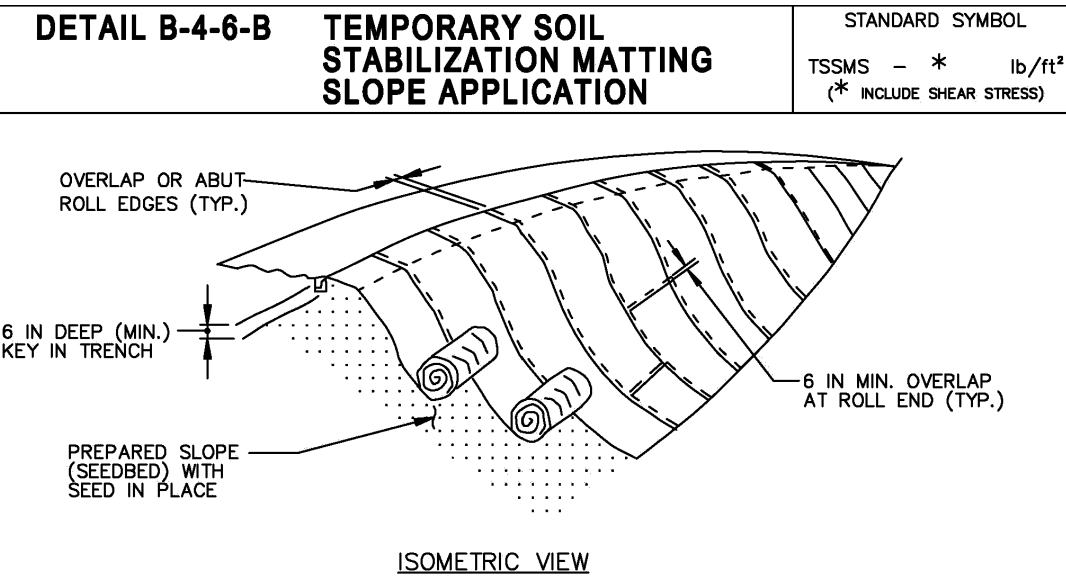
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL		
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL E-9-1 STANDARD INLET PROTECTION

STANDARD SYMBOL: SIP



MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL		
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



CONSTRUCTION SPECIFICATIONS

1. USE MATTING THAT HAS A DESIGN VALUE FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DESIGNATED ON APPROVED PLANS.
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3. SECURE MATTING USING STEEL STAPLES, WOOD STAKES, OR BIODEGRADABLE EQUIVALENT. STAPLES MUST BE "U" OR "T" SHAPED STEEL WIRE HAVING A MINIMUM GAUGE OF NO. 11 AND NO. 8 RESPECTIVELY. "U" SHAPED STAPLES MUST AVERAGE 1 TO 1½ INCHES WIDE AND BE A MINIMUM OF 6 INCHES LONG. "T" SHAPED STAPLES MUST HAVE A MINIMUM 8 INCH MAIN LEG, A MINIMUM 1 INCH SECONDARY LEG, AND A MINIMUM 4 INCH HEAD. WOOD STAKES MUST BE ROUGH-SAWN HARDWOOD, 12 TO 24 INCHES IN LENGTH, 1x3 INCH IN CROSS SECTION, AND WEDGE SHAPED AT THE BOTTOM.
4. PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDED PREPARATION, AND PERMANENT SEEDING IN ACCORDANCE WITH SPECIFICATIONS. PLACE MATTING WITHIN 48 HOURS OF COMPLETING SEEDING OPERATIONS UNLESS END OF WORKDAY STABILIZATION IS SPECIFIED ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
5. UNROLL MATTING DOWNSLOPE. LAY MAT SMOOTHLY AND FIRMLY ON THE SEEDED SURFACE. AVOID STRETCHING THE MATTING.
6. OVERLAP OR ABUT ROLL EDGES PER MANUFACTURER RECOMMENDATIONS. OVERLAP ROLL ENDS BY 6 INCHES (MINIMUM), WITH THE UPSLOPE MAT OVERLAPPING ON TOP OF THE DOWNSLOPE MAT.
7. KEY IN THE UPSLOPE END OF MAT 6 INCHES (MINIMUM) BY DIGGING A TRENCH, PLACING THE MATTING ROLL END IN THE TRENCH, STAPLING THE MAT IN PLACE, REPLACING THE EXCAVATED MATERIAL, AND TAMPING TO SECURE THE MAT END IN THE KEY.
8. STAPLE/STAKE MAT IN A STAGGERED PATTERN ON 4 FOOT (MAXIMUM) CENTERS THROUGHOUT AND 2 FOOT (MAXIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL ENDS.
9. ESTABLISH AND MAINTAIN VEGETATION SO THAT REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT ARE CONTINUOUSLY MET IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL		
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL E-9-1 STANDARD INLET PROTECTION

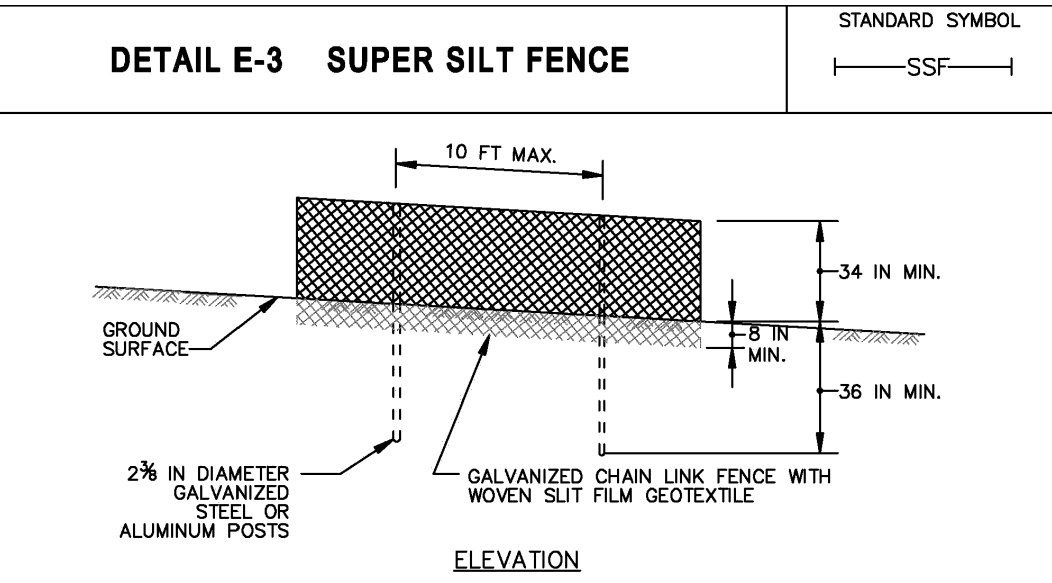
STANDARD SYMBOL: SIP

CONSTRUCTION SPECIFICATIONS

1. USE WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS.
2. EXCAVATE COMPLETELY AROUND THE INLET TO A DEPTH OF 18 INCHES BELOW THE NOTCH ELEVATION.
3. FOR TYPE A, USE NOMINAL 2 INCH X 4 INCH CONSTRUCTION GRADE LUMBER POSTS, DRIVEN 1 FOOT INTO THE GROUND AT EACH CORNER OF THE INLET. PLACE NAIL STRIPS BETWEEN THE POSTS ON THE ENDS OF THE INLET. ASSEMBLE THE TOP PORTION OF THE 2X4 FRAME AS SHOWN. STRETCH ¾ INCH GALVANIZED HARDWARE CLOTH TIGHTLY AROUND THE FRAME AND FASTEN SECURELY. FASTEN GEOTEXTILE SECURELY TO THE HARDWARE CLOTH WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND HARDWARE CLOTH A MINIMUM OF 18 INCHES BELOW THE WEIR CREST. THE ENDS OF THE GEOTEXTILE MUST MEET AT A POST, BE OVERLAPPED AND FOLDED, THEN FASTENED TO THE POST.
4. FOR TYPE B, USE 2½ INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND 6 FOOT LENGTH, DRIVEN A MINIMUM OF 36 INCHES BELOW THE WEIR CREST AT EACH CORNER OF THE STRUCTURE. FASTEN 9 GAUGE OR HEAVIER CHAIN LINK FENCE, 42 INCHES IN HEIGHT, SECURELY TO THE FENCE POSTS WITH WIRE TIES. FASTEN GEOTEXTILE SECURELY TO THE CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 18 INCHES BELOW THE WEIR CREST.
5. BACKFILL AROUND THE INLET IN LOOSE 4 INCH LIFTS AND COMPACT UNTIL SOIL IS LEVEL WITH THE NOTCH ELEVATION ON THE ENDS AND TOP ELEVATION ON THE SIDES.
6. STORM DRAIN INLET PROTECTION REQUIRES FREQUENT MAINTENANCE. REMOVE ACCUMULATED SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOGGING. IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE GEOTEXTILE AND STONE.



MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL		
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



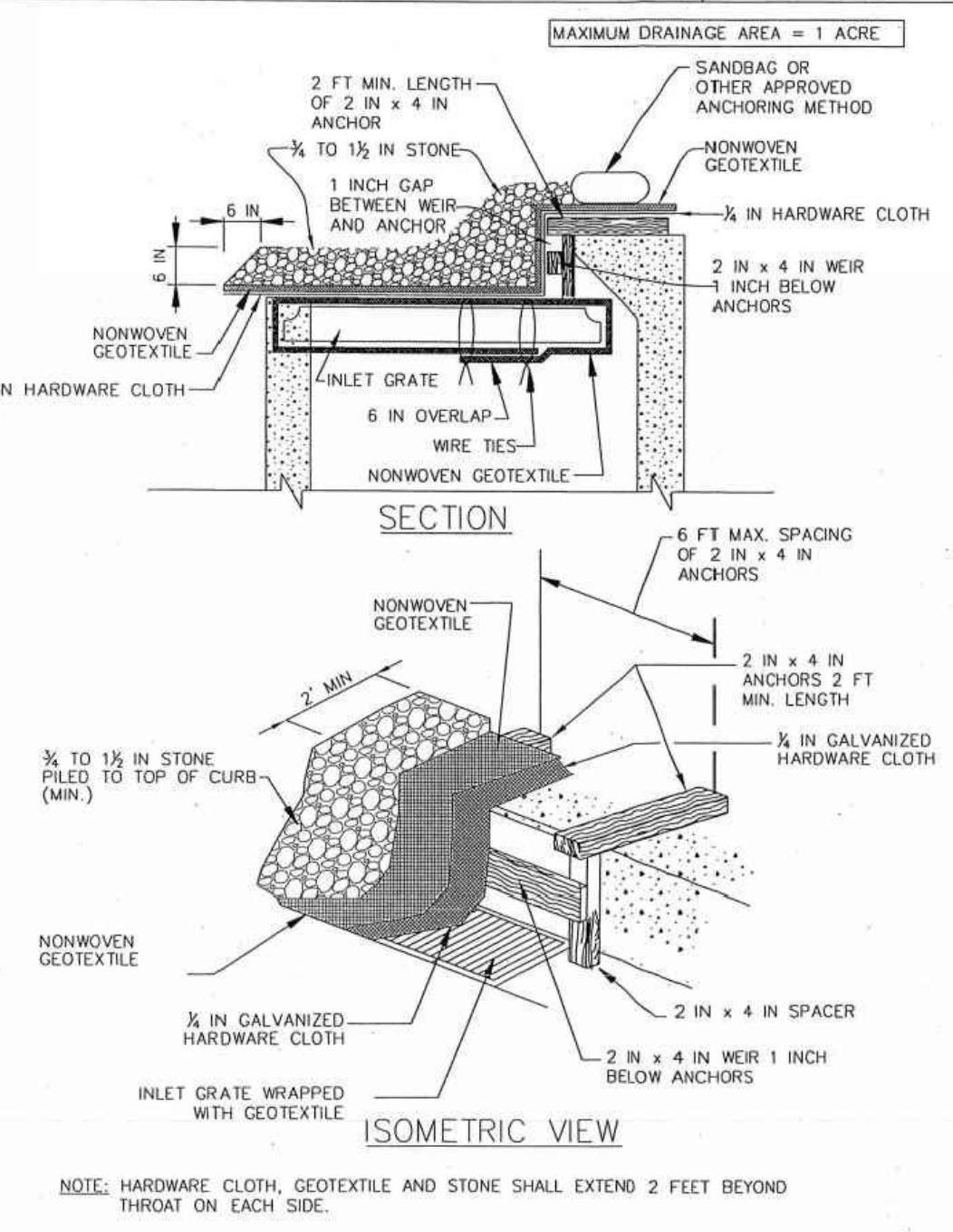
CONSTRUCTION SPECIFICATIONS

1. INSTALL 2½ INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 INCHES INTO THE GROUND.
2. FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2½ INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS.
3. FASTEN WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, SECURELY TO THE UPSLOPE SIDE OF CHAIN LINK FENCE, WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 8 INCHES INTO THE GROUND.
4. WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEDIMENT BY PASS.
5. EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SUPER SILT FENCE.
6. PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
7. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCING AND GEOTEXTILE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL		
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL E-9-6 COMBINATION INLET PROTECTION

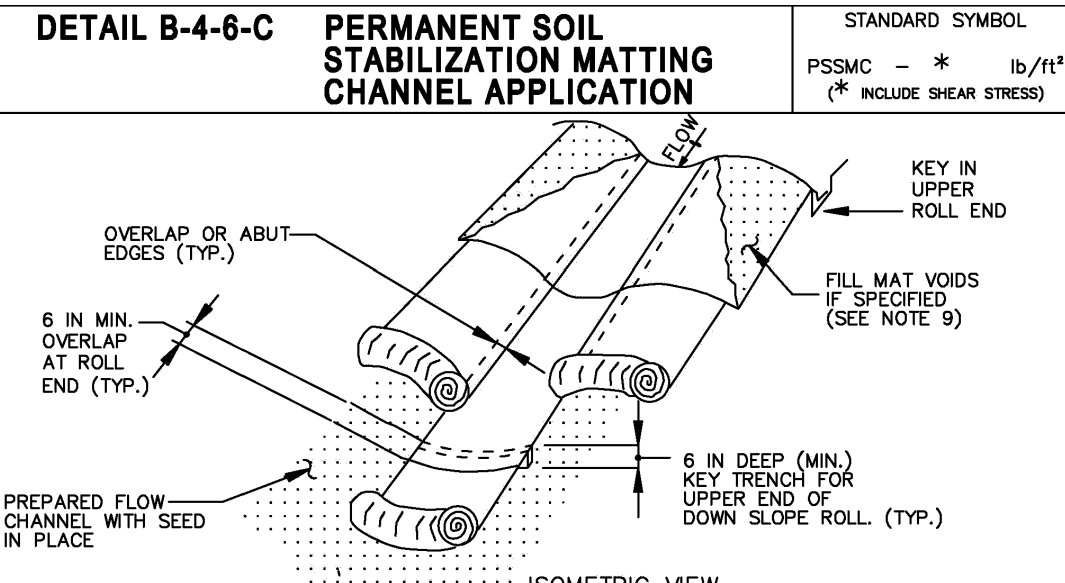
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MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL		
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

1. USE NOMINAL 2 INCH X 4 INCH LUMBER.
2. USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS.
3. LIFT GRATE, AND WRAP WITH NONWOVEN GEOTEXTILE TO COMPLETELY COVER ALL OPENINGS, THEN SET GRATE BACK IN PLACE.
4. NAIL THE 2X4 WEIR (1 INCH BELOW THE ANCHORS) TO THE TOP OF A 9 INCH LONG VERTICAL SPACER, LOCATED BETWEEN THE WEIR AND THE INLET FACE (MAXIMUM 4 FEET APART).
5. PLACE THE ASSEMBLY AGAINST THE INLET THROAT AND NAIL TO 2X4 ANCHORS (MINIMUM 2 FOOT LENGTHS) AT SPACER LOCATIONS. EXTEND 2X4 ANCHORS ACROSS THE INLET TOP AND HOLD IN PLACE BY SANDBAGS OR OTHER APPROVED ANCHORING METHOD.
6. INSTALL END SPACERS A MINIMUM OF 1 FOOT BEYOND THE ENDS OF THE THROAT OPENING.
7. ATTACH A CONTINUOUS PIECE OF ¾ INCH GALVANIZED HARDWARE CLOTH WITH A MINIMUM WIDTH OF 60 INCHES AND A MINIMUM LENGTH OF 4 FEET LONGER THAN THE THROAT OPENING, TO 2 FEET BEYOND THE TOP OF CURB, EXTENDING 2 FEET BEYOND THROAT ON EACH SIDE.
8. PLACE A CONTINUOUS PIECE OF NONWOVEN GEOTEXTILE THE SAME DIMENSIONS AS THE HARDWARE CLOTH OVER THE HARDWARE CLOTH.
9. FORM THE ¾ INCH HARDWARE CLOTH AND THE GEOTEXTILE TO THE CONCRETE GUTTER AND AGAINST THE FACE OF THE CURB ON BOTH SIDES OF THE INLET. PLACE CLEAN ¾ TO 1½ INCH STONE OR EQUIVALENT RECYCLED CONCRETE OVER THE HARDWARE CLOTH AND GEOTEXTILE IN SUCH A MANNER TO PREVENT WATER FROM ENTERING THE INLET UNDER OR AROUND THE GEOTEXTILE.
10. STORM DRAIN INLET PROTECTION REQUIRES FREQUENT MAINTENANCE. REMOVE ACCUMULATED SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOGGING. IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE GEOTEXTILE AND STONE.

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U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	MODIFIED-2013	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



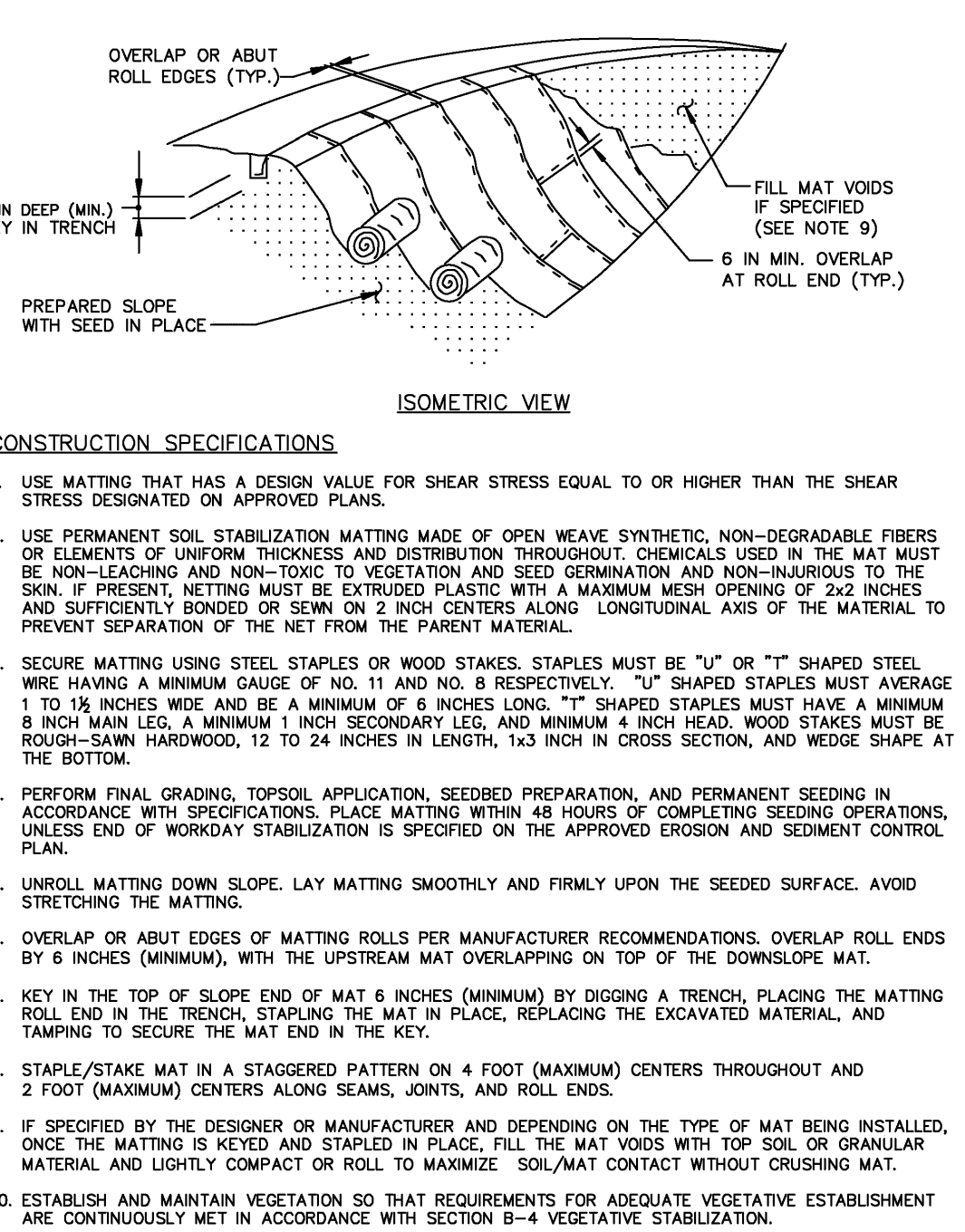
CONSTRUCTION SPECIFICATIONS

1. USE MATTING THAT HAS A DESIGN VALUE FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DESIGNATED ON APPROVED PLANS.
2. USE PERMANENT SOIL STABILIZATION MATTING MADE OF OPEN WEAVE SYNTHETIC, NON-DEGRADABLE FIBERS OR ELEMENTS OF UNIFORM THICKNESS AND DISTRIBUTION THROUGHOUT. CHEMICALS USED IN THE MAT MUST BE NON-LEACHING AND NON-TOXIC TO VEGETATION AND SEED GERMINATION AND NON-INJURIOUS TO THE SKIN. IF PRESENT, NETTING MUST BE EXTRUDED PLASTIC WITH A MAXIMUM MESH OPENING OF 2x2 INCHES AND SUFFICIENTLY BONDED OR SEWN ON 2 INCH CENTERS ALONG LONGITUDINAL AXIS OF THE MATERIAL TO PREVENT SEPARATION OF THE NET FROM THE PARENT MATERIAL.
3. SECURE MATTING USING STEEL STAPLES OR WOOD STAKES. STAPLES MUST BE "U" OR "T" SHAPED STEEL WIRE HAVING A MINIMUM GAUGE OF NO. 11 AND NO. 8 RESPECTIVELY. "U" SHAPED STAPLES MUST AVERAGE 1 TO 1½ INCHES WIDE AND BE A MINIMUM OF 6 INCHES LONG. "T" SHAPED STAPLES MUST HAVE A MINIMUM 8 INCH MAIN LEG, A MINIMUM 1 INCH SECONDARY LEG, AND MINIMUM 4 INCH HEAD. WOOD STAKES MUST BE ROUGH-SAWN HARDWOOD, 12 TO 24 INCHES IN LENGTH, 1x3 INCH IN CROSS SECTION, AND WEDGE SHAPE AT THE BOTTOM.
4. PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDED PREPARATION, AND PERMANENT SEEDING IN ACCORDANCE WITH SPECIFICATIONS. PLACE MATTING WITHIN 48 HOURS OF COMPLETING SEEDING OPERATIONS, UNLESS END OF WORKDAY STABILIZATION IS SPECIFIED ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
5. UNROLL MATTING IN DIRECTION OF WATER FLOW, CENTERING THE FIRST ROLL ON THE CHANNEL CENTER LINE, WORK FROM CENTER OF CHANNEL OUTWARD WHEN PLACING ROLLS. LAY MATTING SMOOTHLY AND FIRMLY UPON THE SEEDED SURFACE, AVOID STRETCHING THE MATTING.
6. OVERLAP OR ABUT EDGES OF MATTING ROLLS PER MANUFACTURER RECOMMENDATIONS. OVERLAP ROLL ENDS BY 6 INCHES (MINIMUM), WITH THE UPSLOPE MAT OVERLAPPING ON TOP OF THE NEXT DOWNSLOPE MAT.
7. KEY IN THE TOP OF SLOPE END OF MAT 6 INCHES (MINIMUM) BY DIGGING A TRENCH, PLACING THE MATTING ROLL END IN THE TRENCH, STAPLING THE MAT IN PLACE, REPLACING THE EXCAVATED MATERIAL, AND TAMPING TO SECURE THE MAT END IN THE KEY.
8. STAPLE/STAKE MAT IN A STAGGERED PATTERN ON 4 FOOT (MAXIMUM) CENTERS THROUGHOUT AND 2 FOOT (MAXIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL ENDS.
9. IF SPECIFIED BY THE DESIGNER OR MANUFACTURER AND DEPENDING ON THE TYPE OF MAT BEING INSTALLED, ONCE THE MATTING IS KEYED AND STAPLED IN PLACE, FILL THE MAT VOIDS WITH TOP SOIL OR GRANULAR MATERIAL AND LIGHTLY COMPACT OR ROLL TO MAXIMIZE SOIL/MAT CONTACT WITHOUT CRUSHING MAT.
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MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL		
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL B-4-6-D PERMANENT SOIL STABILIZATION MATTING SLOPE APPLICATION

STANDARD SYMBOL: PSSMS - * 1b/ft⁴ (* INCLUDE SHEAR STRESS)



MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL		
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

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MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL		
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



THIS IS A TRUE AND CORRECT COPY OF THE ORIGINAL DOCUMENTS WERE PREPARED BY THE ARCHITECT, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 53831, EXPIRATION DATE: 05/1/2025.

PSC #06.038

FRIENDSHIP VALLEY ELEMENTARY SCHOOL PRE-K, KINDERGARTEN & PRIDE SUITE ADDITIONS

SITERESOURCES
Creating Safe, Healthy, Inspiring Environments

CARROLL COUNTY PUBLIC SCHOOLS
1100 GIST ROAD, WESTMINSTER, MD 21157

PROJECT NO: 631374

DATE:

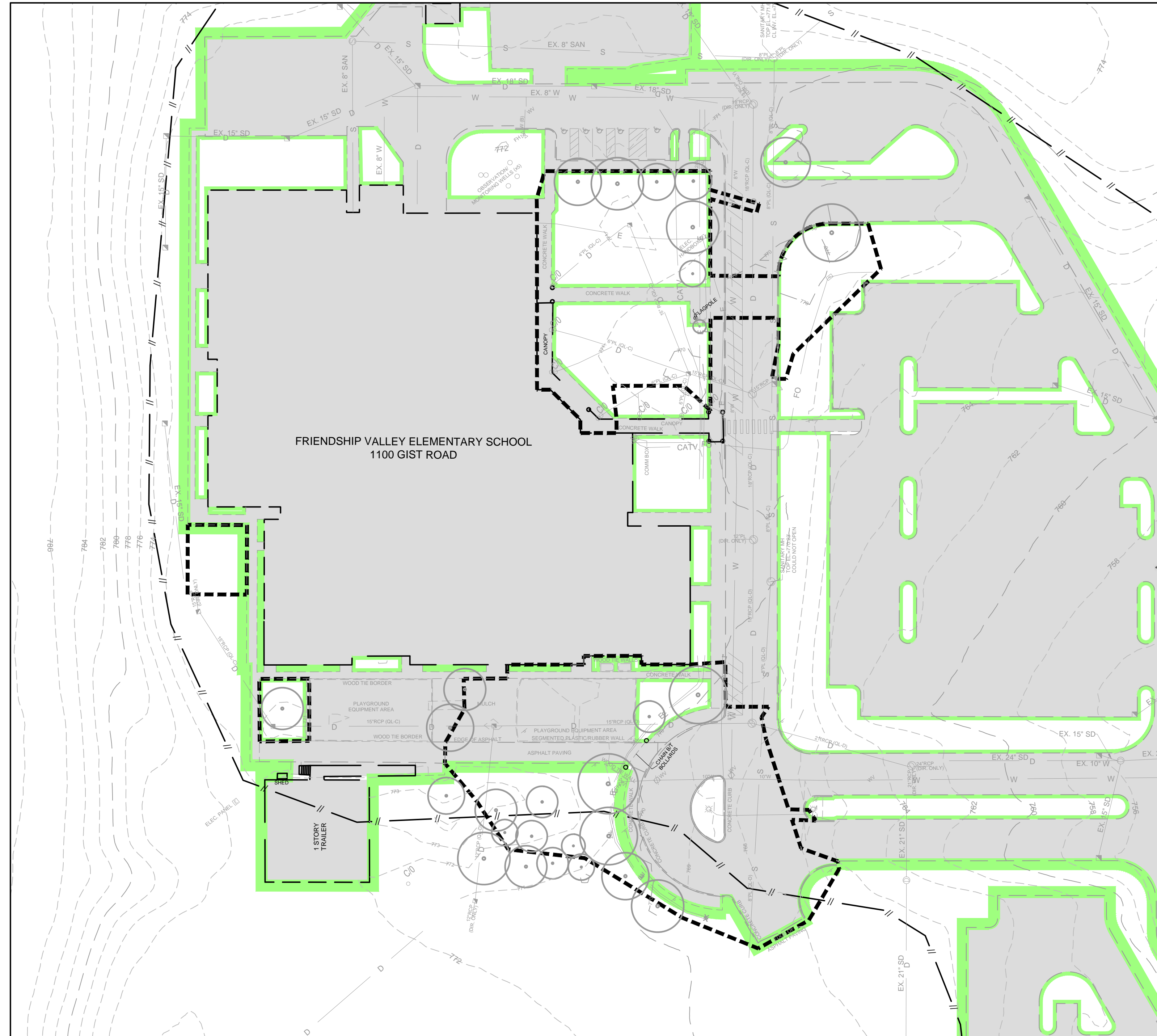
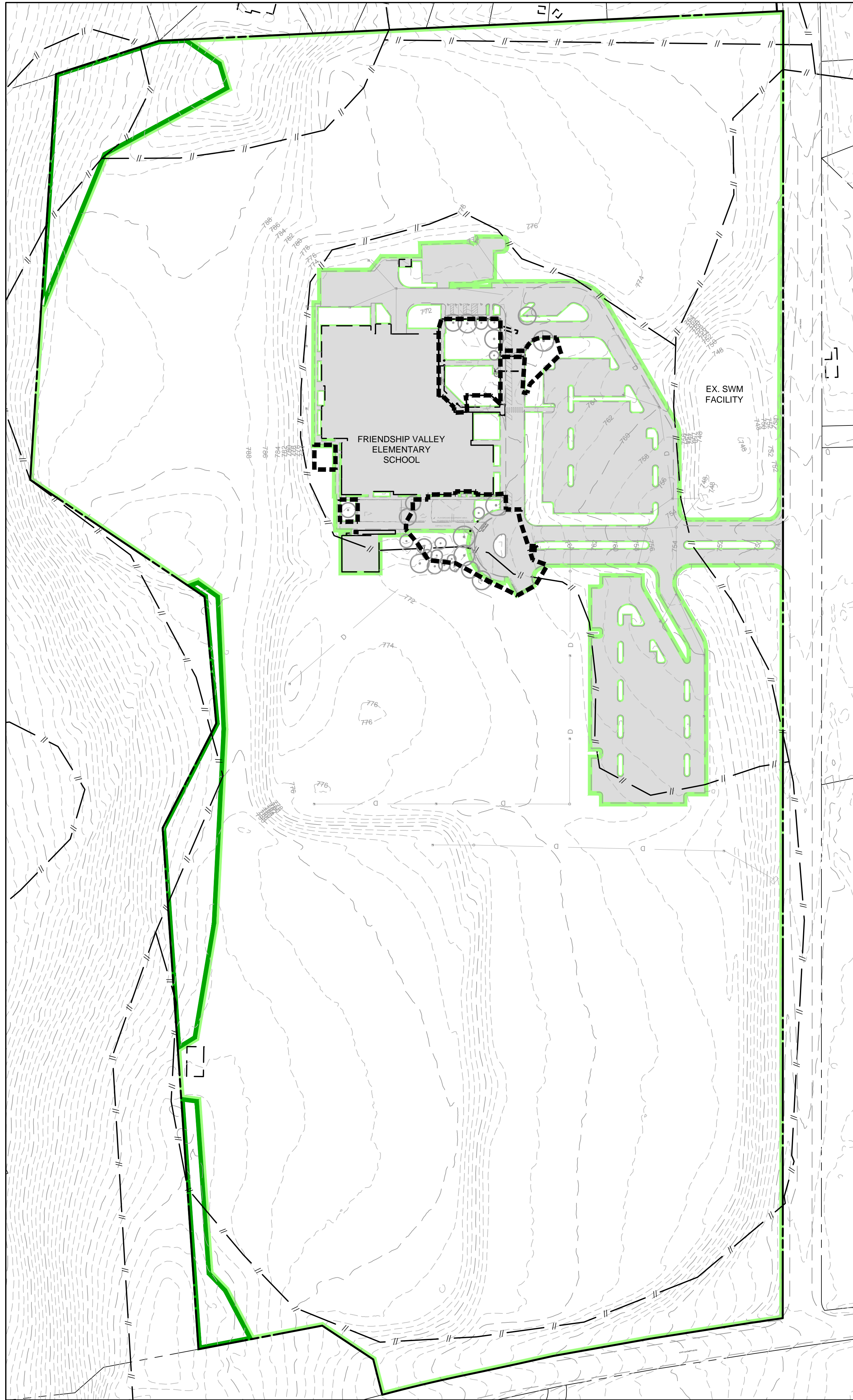
REVISIONS	
DATE	DESCRIPTION
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10/25/24	95% CD SET

ESC DETAILS AND NOTES

C432

SHEET 17 OF 24

COUNTY FILE NUMBER:
S-23-0030

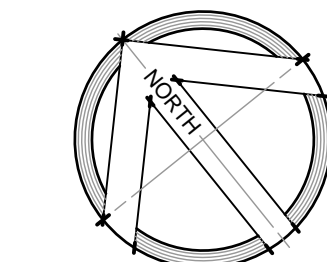
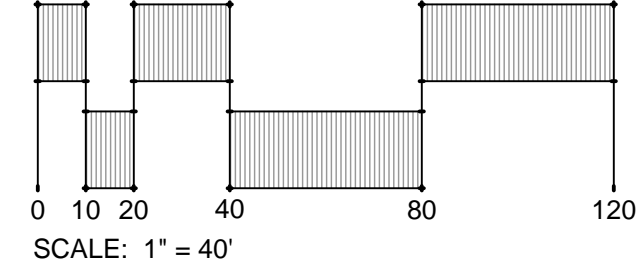
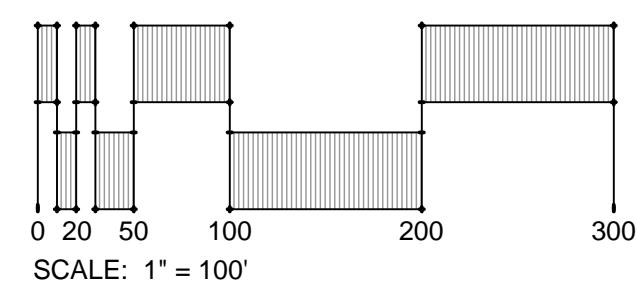


EXISTING CONDITIONS ENLARGEMENT

1" = 40'

LEGEND

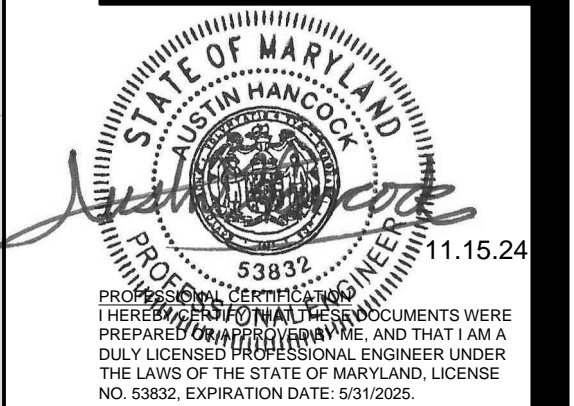
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	EXISTING BUILDING		EX. TELE T		EXISTING TELEPHONE
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	EXISTING ROAD		EX. ELEC OHW		EXISTING OVERHEAD ELECTRIC
	EXISTING CURB				EXISTING LIGHTING
	EXISTING TREES				EXISTING CONTOURS
	EXISTING SHRUBS				EXISTING SOIL GROUP DELINEATION
	EXISTING STORM DRAIN				ESD TRACT AREA
	EXISTING WATER				IMPERVIOUS AREA
					MEADOW
					WOODS



COUNTY FILE NUMBER:
S-23-0030

MOSELEYARCHITECTS

1414 KEY HIGHWAY, SECOND FLOOR, BALTIMORE, MD 21230
PHONE (410) 539-4300 FAX (410) 539-0660
MOSELEYARCHITECTS.COM



PSC #06.038

FRIENDSHIP VALLEY ELEMENTARY SCHOOL PRE-K, KINDERGARTEN & PRIDE SUITE ADDITIONS

SITERESOURCES
Civil Engineering

CARROLL COUNTY PUBLIC SCHOOLS
1100 GIST ROAD, WESTMINSTER, MD 21157

PROJECT NO. 631374	DATE:	REVISIONS
	DATE	DESCRIPTION
	9/18/24	CD PROGRESS SET
	10/25/24	95% CD SET

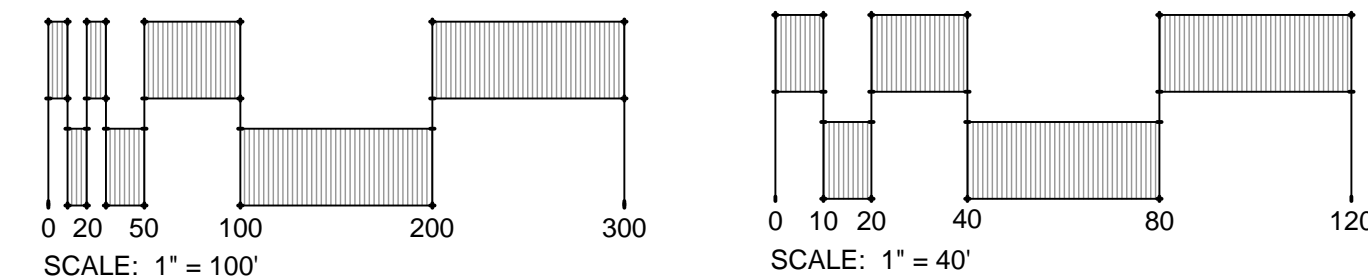
EXISTING
CONDITIONS AND
RESOURCE
MAPPING SWM PLAN



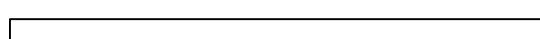



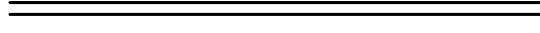
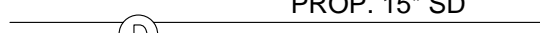
C501

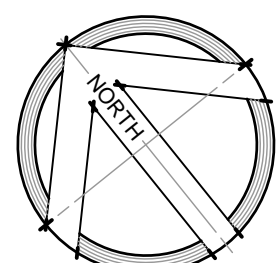
SHEET 18 OF 24


$$1'' = 40'$$

	PROPERTY LINE		W	EXISTING WATER
	EXISTING BUILDING		EX. 8" SAN S	EXISTING SANITARY SEWER
	EXISTING WALK		EX. TELE T	EXISTING TELEPHONE
	EXISTING ROAD		EX. ELEC E	EXISTING ELECTRIC
	EXISTING CURB		EX. ELEC OHW	EXISTING OVERHEAD ELECTRIC
	EXISTING TREES			EXISTING LIGHTING
	EXISTING SHRUBS		350 348	EXISTING CONTOURS
	EXISTING STORM DRAIN		Ud GnG	EXISTING SOIL GROUP DELINEATION
				ESD TRACT AREA IMPERVIOUS AREA
				GRASS

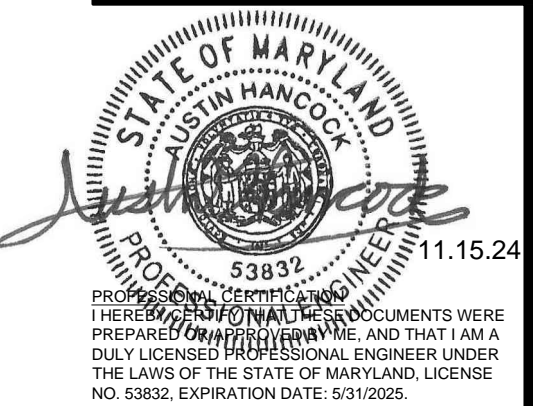


	PROPOSED BUILDING
	PROPOSED BUILDING OVERHANG
	PROPOSED SIDEWALK
	PROPOSED BITUMINOUS PAVING
	PROPOSED CURB
	PROP. 15" SD
	PROP. 6" WATER
	PROP. 6" SAN
	PROPOSED STORM DRAIN
	PROPOSED WATER
	PROPOSED SANITARY SEWER



COUNTY FILE NUMBER:
S-23-0030

1414 KEY HIGHWAY, SECOND FLOOR, BALTIMORE, MD 21230
PHONE (410) 539-4300 FAX (410) 539-0660
MOSELEYARCHITECTS.COM



CARROLL COUNTY PUBLIC SCHOOLS
11100 GIST ROAD, WESTMINSTER, MD 21157

PROJECT NO: 631374	
DATE:	
REVISIONS	
DATE	DESCRIPTION
9/18/24	CD PROGRESS SET
10/25/24	95% CD SET

C511

SWM AS-BUILT NOTES

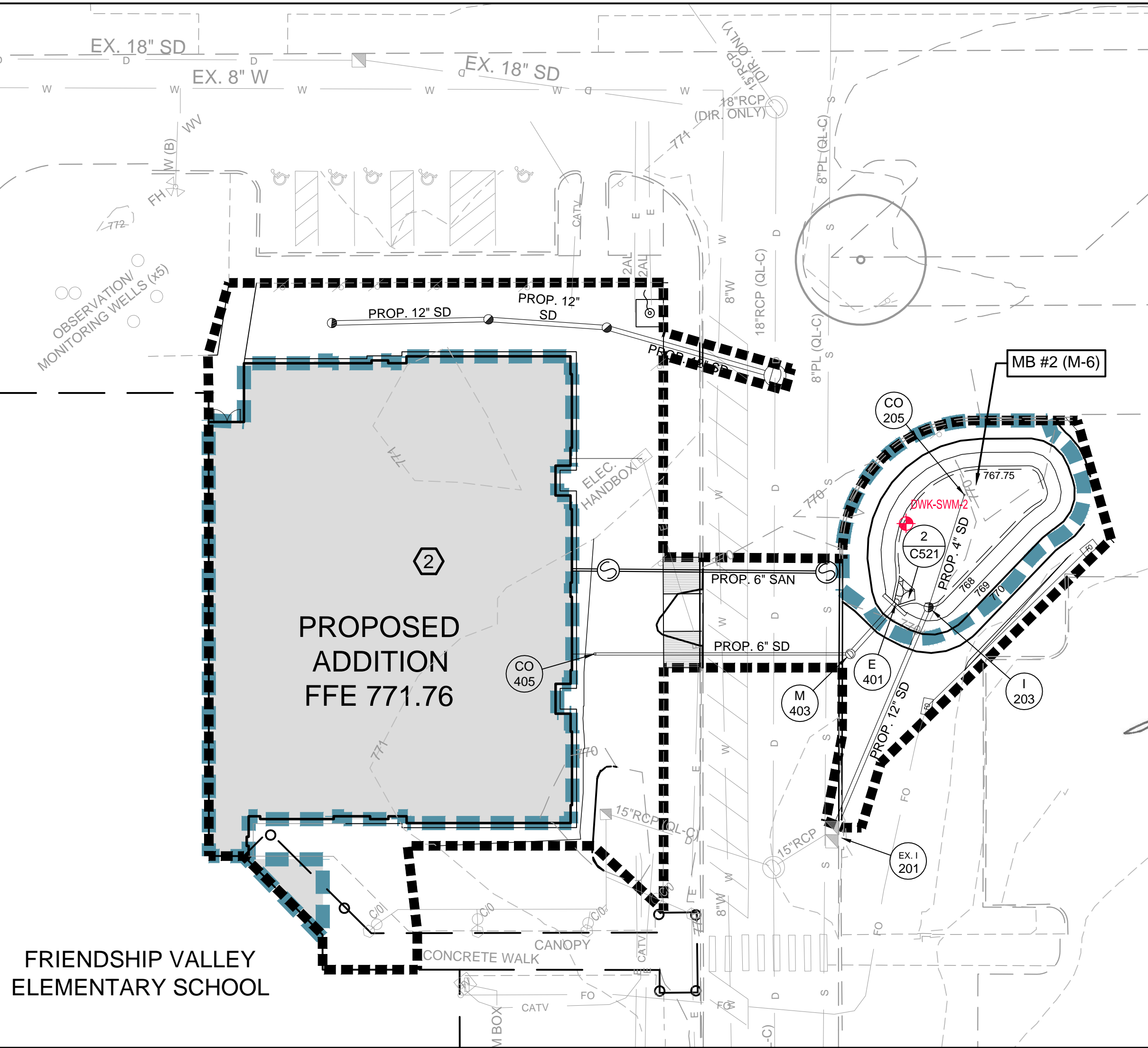
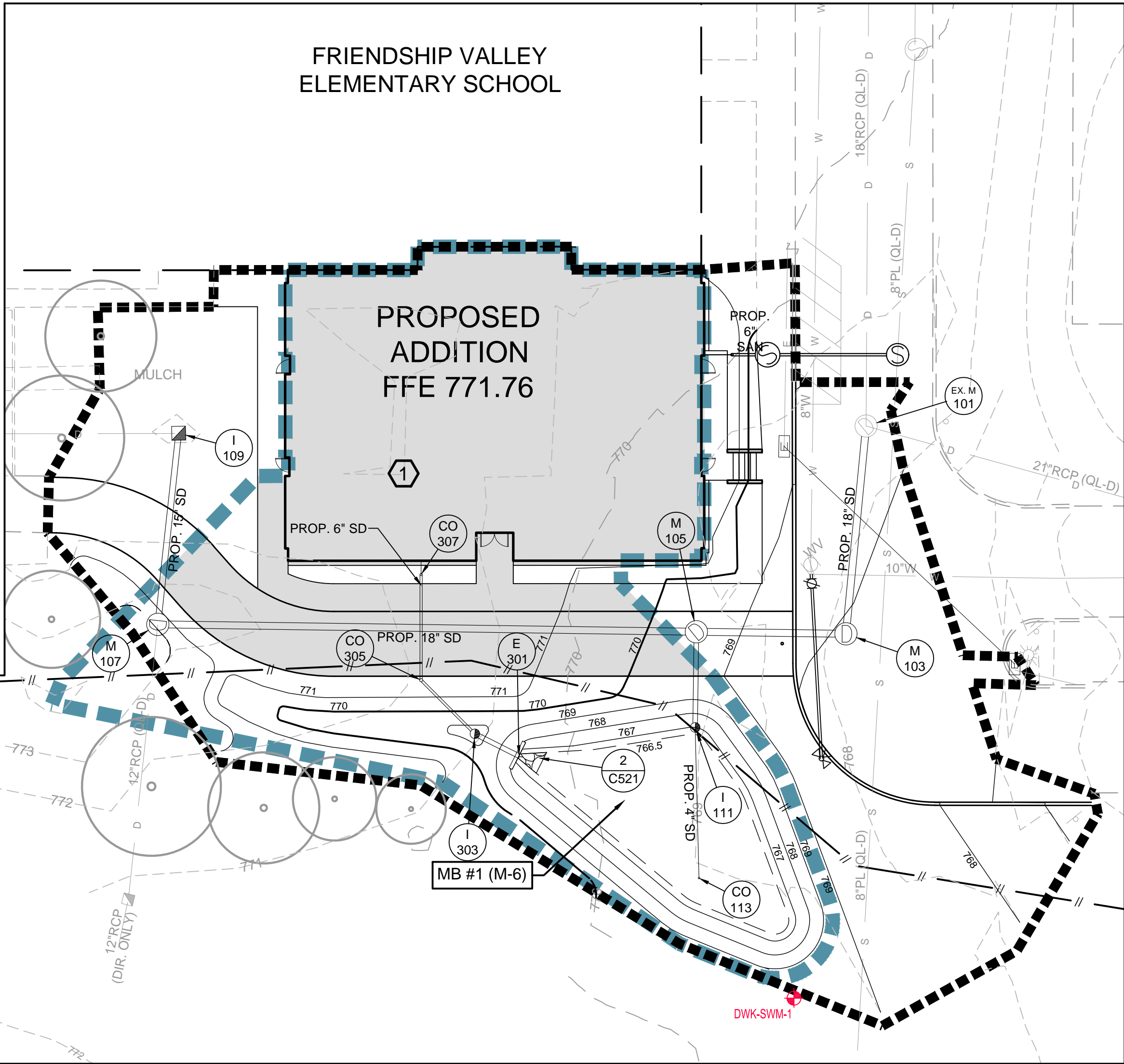
1. IT IS THE CONTRACTOR'S RESPONSIBILITY, ON BEHALF OF THE OWNER, TO ENGAGE A LICENSED LAND SURVEYOR TO PERFORM AN AS-BUILT TOPOGRAPHIC SURVEY OF THE CONSTRUCTED STORMWATER MANAGEMENT FACILITIES. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE PHOTO DOCUMENTATION WITH AT LEAST TEN (10) PHOTOS PER STORMWATER MANAGEMENT FACILITY AT EACH CRUCIAL MILESTONE OF THE STORMWATER MANAGEMENT CONSTRUCTION PROGRESS.
2. CRUCIAL MILESTONES INCLUDE, AT A MINIMUM, REGULAR INSPECTIONS MADE AND DOCUMENTED DURING AND AT COMPLETION OF THE FOLLOWING STAGES OF CONSTRUCTION:
- A) EXCAVATION TO SUBGRADE
 - B) INSTALLATION OF GEOTEXTILE FABRIC
 - C) INSTALLATION OF UNDERDRAIN SYSTEM WITH DRAINAGE STRUCTURE AND OUTFALL PIPE
 - D) INSTALLATION ON WETLAND SOIL, PEA GRAVEL AND GRAVEL MEDIA.
 - E) UPON COMPLETION OF FINAL GRADING, MULCH INSTALLATION, AND ESTABLISHMENT OF PERMANENT STABILIZATION
3. THE FOLLOWING INFORMATION SHALL BE INCLUDED IN THE SWM AS-BUILT DOCUMENTATION BY THE LICENSED LAND SURVEYOR:
- A) COMPLY WITH INSPECTION REQUIREMENTS DURING CONSTRUCTION FOR AS-BUILT CERTIFICATION AS DESCRIBED IN THE MDE STORMWATER MANUAL AND AMENDED TO DATE.
 - B) NOTE CHANGES AND DEVIATIONS FROM THE ORIGINAL APPROVED SWM PLANS BY MARKING IN RED OR GREEN ON TOP OF THE ASSOCIATED APPROVED ITEM.
 - C) NOTE CONSTRUCTED DATA FOR GRADING CONTOURS, SPOT ELEVATIONS, HORIZONTAL AND VERTICAL DIMENSIONS, INVERTS, PLAN VIEWS, CROSS-SECTIONS, AND DETAILS.
 - D) IF CONSTRUCTED VALUES ARE THE SAME AS DESIGN VALUES, PLACE A CHECK MARK NEXT TO THE ASSOCIATED DATA TO INDICATE THE VALUE HAS BEEN VERIFIED.
 - E) COMPLETE AS-BUILT TABLES INCLUDED ON DRAWINGS AND SIGN AND SEAL CERTIFICATIONS.

PROVIDE ADDITIONAL DOCUMENTS SUCH AS PROGRESS AND FINAL PHOTOGRAPHS, INSPECTION REPORTS AND OTHER RELEVANT INFORMATION IN SUPPORT OF THE AS-BUILT DRAWINGS AND DATA TABLES.

1 STORY TRAILER

FRIENDSHIP VALLEY
ELEMENTARY SCHOOL

PROPOSED
ADDITION
FFE 771.76



INSPECTION CHART FOR MICRO-BIORETENTION (MB#1)

STAGE	ENGINEERS APPROVAL	
	INITIALS	DATE
SEDIMENT CONTROL PHASE		
1. INSTALL STABILIZED CONSTRUCTION ENTRANCE AND ALL PERIMETER CONTROLS PER SEDIMENT CONTROL PLANS C401.		
2. ALL ITEMS ON PRECONSTRUCTION SEQUENCE OF CONSTRUCTION AS SHOWN ON DRAWING C401.		
3. CONSTRUCT STORM DRAIN SYSTEM FROM ex. M-101 TO I-109, THEN FROM M-105 TO I-111.		
4. EXCAVATE AND CONSTRUCT RISER (I-111) AND 12" OUTFALL PIPE, AND INSTALL AND INSPECT CONCRETE ANTI-FLOATATION AROUND STRUCTURE AS DIRECTED BY THE GEOTECHNICAL ENGINEER. PROVIDE STANDARD INLET PROTECTION TYPE B ON PROPOSED RISER.		
5. CONSTRUCT EMBANKMENT AS DIRECTED BY GEOTECHNICAL ENGINEER. EXCAVATE BOTTOM OF FACILITY TO EL. 766.5 AND CONSTRUCT 3:1 SLOPES OF PROPOSED FACILITY.		
6. CONSTRUCT REMAINING STORM DRAIN SYSTEM (CO-307 TO E-301) INCLUDING DOWNSPOUT CONNECTION, REROUTING OF EXISTING ROOF DRAINAGE, AND HEADWALL E-301.		
7. ENTIRE CONTRIBUTING DRAINAGE AREA TO THE FACILITY IS PAVED/STABILIZED, BUILDING ADDITION IS CONSTRUCTED, AND MINIMUM 2" STAND OF DENSE GRASS IS ESTABLISHED ON ALL DISTURBED AREAS, INCLUDING FACILITY SLOPES AND TOP.		
STORMWATER MANAGEMENT PHASE		
1. REMOVE ACCUMULATED SEDIMENTS AND STADING WATER FROM THE ENTIRE STORMDRAIN SYSTEM INCLUDING SUMP INLETS AND MANHOLES AND THEN EXCAVATE TO THE BOTTOM OF RECHARGE RESERVOIR EL. 763.25.		
2. INSTALL NO. 8 STONE AND 4" SLOTTED PIPE UNDER SUPERVISION OF GEOTECHNICAL ENGINEER.		
3. ADD ENGINEER APPROVED PLANTING/FILTER MEDIA. PLANT FACILITY BOTTOM WITH FILTER BED MIX (WET MEADOW MIX) AND PLACE SOD ON BANKS PER LANDSCAPE PLAN.		
4. STABILIZE ANY DISTURBED AREAS AND REMOVE PERIMETER SEDIMENT CONTROLS AND ANY REMNANTS OF CONSTRUCTION INCLUDING STAKES.		
5. A MINIMUM OF 2" STAND OF DENSE GRASS IS ESTABLISHED ON BANKS OF FACILITY AND FILTER BED MIX ON THE BOTTOM.		
6. SUBMIT AS-BUILT MYLARS TO CARROLL COUNTY BUREAU OF RESOURCE MANAGEMENT WITHIN 30 DAYS OF COMPLETION.		

* PLEASE NOTIFY CERTIFYING ENGINEER 48 HOURS PRIOR TO COMMENCING CONSTRUCTION *

ENGINEER'S NAME: SITE RESOURCES, INC.
PHONE NUMBER: 410-683-3388

INSPECTION CHART FOR MICRO-BIORETENTION (MB#2)

STAGE	ENGINEERS APPROVAL	
	INITIALS	DATE
SEDIMENT CONTROL PHASE		
1. INSTALL STABILIZED CONSTRUCTION ENTRANCE AND ALL PERIMETER CONTROLS PER SEDIMENT CONTROL PLANS C401.		
2. ALL ITEMS ON PRECONSTRUCTION SEQUENCE OF CONSTRUCTION AS SHOWN ON DRAWING C401.		
3. CONSTRUCT STORM DRAIN SYSTEM FROM I-203 TO ex. I-201.		
4. EXCAVATE AND CONSTRUCT RISER (I-203) AND 12" OUTFALL PIPE, AND INSTALL AND INSPECT CONCRETE ANTI-FLOATATION AROUND STRUCTURE AS DIRECTED BY THE GEOTECHNICAL ENGINEER. PROVIDE STANDARD INLET PROTECTION TYPE B ON PROPOSED RISER.		
5. CONSTRUCT EMBANKMENT AS DIRECTED BY GEOTECHNICAL ENGINEER. EXCAVATE BOTTOM OF FACILITY TO EL. 767.75 AND CONSTRUCT 3:1 SLOPES OF PROPOSED FACILITY.		
6. CONSTRUCT REMAINING STORM DRAIN SYSTEM (CO-405 TO E-401) INCLUDING DOWNSPOUT CONNECTION, REROUTING OF EXISTING ROOF DRAINAGE, AND HEADWALL E-401.		
7. ENTIRE CONTRIBUTING DRAINAGE AREA TO THE FACILITY IS PAVED/STABILIZED, BUILDING ADDITION IS CONSTRUCTED, AND MINIMUM 2" STAND OF DENSE GRASS IS ESTABLISHED ON ALL DISTURBED AREAS, INCLUDING FACILITY SLOPES AND TOP.		
STORMWATER MANAGEMENT PHASE		
1. REMOVE ACCUMULATED SEDIMENTS AND STADING WATER FROM THE ENTIRE STORMDRAIN SYSTEM INCLUDING SUMP INLETS AND MANHOLES AND THEN EXCAVATE TO THE BOTTOM OF RECHARGE RESERVOIR EL. 764.5.		
2. INSTALL NO. 8 STONE AND 4" SLOTTED PIPE UNDER SUPERVISION OF GEOTECHNICAL ENGINEER.		
3. ADD ENGINEER APPROVED PLANTING/FILTER MEDIA. PLANT FACILITY BOTTOM WITH FILTER BED MIX (WET MEADOW MIX) AND PLACE SOD ON BANKS PER LANDSCAPE PLAN.		
4. STABILIZE ANY DISTURBED AREAS AND REMOVE PERIMETER SEDIMENT CONTROLS AND ANY REMNANTS OF CONSTRUCTION INCLUDING STAKES.		
5. A MINIMUM OF 2" STAND OF DENSE GRASS IS ESTABLISHED ON BANKS OF FACILITY AND FILTER BED MIX ON THE BOTTOM.		
6. SUBMIT AS-BUILT MYLARS TO CARROLL COUNTY BUREAU OF RESOURCE MANAGEMENT WITHIN 30 DAYS OF COMPLETION.		

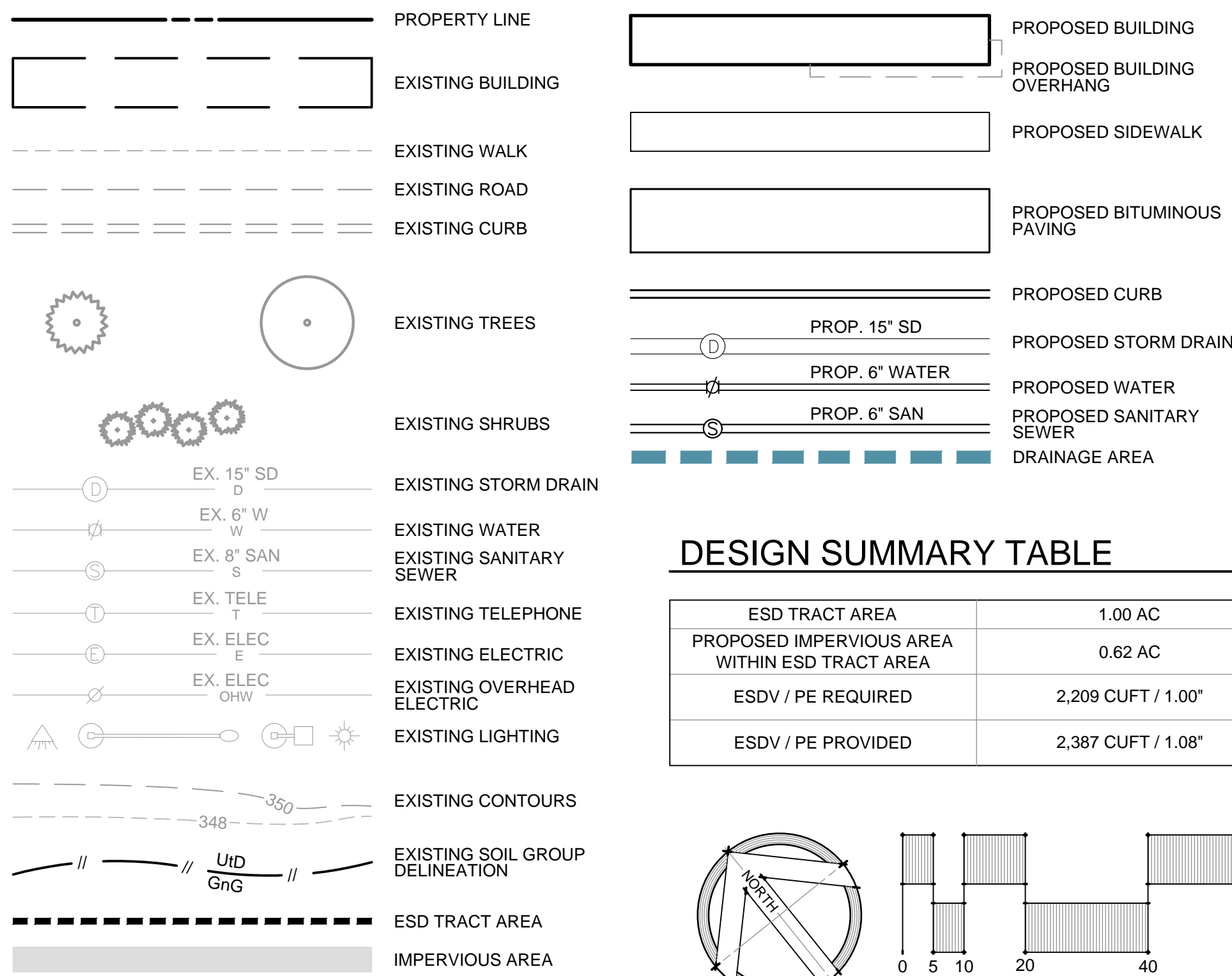
* PLEASE NOTIFY CERTIFYING ENGINEER 48 HOURS PRIOR TO COMMENCING CONSTRUCTION *

ENGINEER'S NAME: SITE RESOURCES, INC.
PHONE NUMBER: 410-683-3388

DRAINAGE AREA DATA

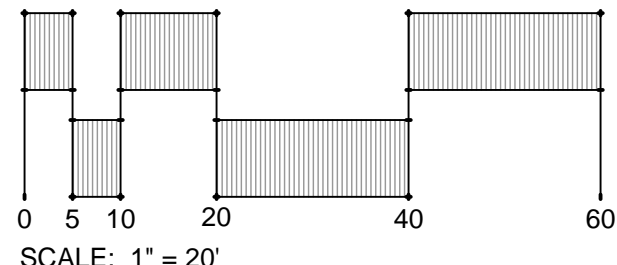
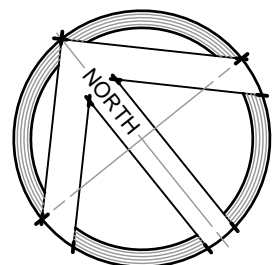
DRAINAGE AREA	TOTAL AREA (AC.)	IMPERVIOUS AREA (AC.)	ESDV PROVIDED (CUFT)	TC (HOURS)
1 (MB #1)	0.31	0.19	1,613	0.1
2 (MB #2)	0.23	0.19	773	0.1

LEGEND



DESIGN SUMMARY TABLE

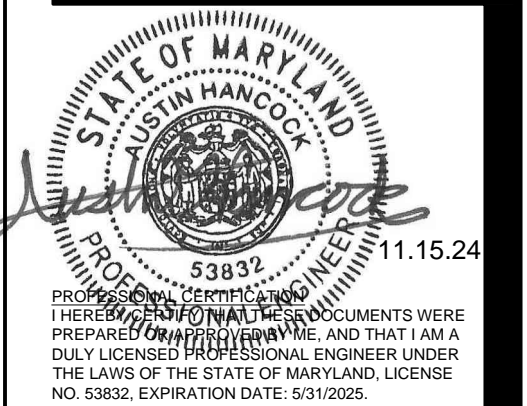
ESD TRACT AREA	1.00 AC
PROPOSED IMPERVIOUS AREA WITHIN ESD TRACT AREA	0.62 AC
ESDV / PE REQUIRED	2,209 CUFT / 1.00"
ESDV / PE PROVIDED	2,387 CUFT / 1.08"



COUNTY FILE NUMBER:
S-23-0030

MOSELEYARCHITECTS

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MOSELEYARCHITECTS.COM



PSC #06.038

FRIENDSHIP VALLEY ELEMENTARY SCHOOL PRE-K,
KINDERGARTEN & PRIDE SUITE ADDITIONS

CARROLL COUNTY PUBLIC SCHOOLS
1100 GIST ROAD, WESTMINSTER, MD 21157

PROJECT NO: 631374	REVISIONS
DATE: 9/18/24	DESCRIPTION: CD PROGRESS SET
10/25/24	95% CD SET

SWM ESD DA MAP

C512

SHEET 20 OF 24

1. The Stormwater Management Facility/Facilities shown on these plans shall be constructed by Carroll County.
2. The County or its heirs or assigns shall be responsible for continuing maintenance of the facility/facilities which shall include such items as moving, cleaning, removing sediment, trees, shrubs, and debris and repairing any structural damage. Requirements and schedules for specific types of facilities and practices as listed on the plans are hereby included.
3. The County or its heirs or assigns shall be responsible for any structural damage or failure which may occur as a result of negligence, accident or misuse. In the event of structural damage, the County or its heirs or assigns is responsible to make repairs as quickly as possible (30 day maximum).
4. After completion of the facility the Carroll County Bureau of Resource Management shall certify that the facility is in proper working condition. "After completion of the facility" is construed to mean that all contributory drainage areas are paved or supporting a 2" stand of dense grass and that all buildings are constructed and that the Carroll County Bureau of Resource Management has inspected construction and a registered professional engineer has certified that the "As-Built" plans meet the plans and specifications for construction.
5. If this facility is ever transferred to private ownership, the County's heirs or assigns are responsible for the agreement. In such a case, if after notice by the County to correct a violation requiring maintenance work, satisfactory corrections are not made by the owner(s) within (30) days the County may perform all necessary work to place the facility in proper working condition. The owners of the facility shall be assessed the cost of the work and any penalties. The monies may be collected by placing a lien on the property, or by including the costs and penalties in the property tax bill and collecting them as ordinary taxes by the County.

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MONTHLY INSPECTION		
Inspection Item	Inspection Requirements	Remedial Action
Debris and Trash	Check for trash and debris in facility including inlets, outlets, conveyance systems, and area around facility.	Remove all trash and debris and dispose in an acceptable manner. Unclog all openings.
Plant Composition and Health	Compare plant composition with approved plans. Check for invasive species or weeds. Check for dead or dying vegetation.	Remove invasive species and weeds. Replace dead plants in accordance with approved landscaping plan OR Reseed and Remulch per Filter Bed Mix.
Vegetative Cover	Check for channelizing, erosion, and bare spots. Check for vegetation blocking inlet and outlet.	Remove or cut back vegetation around inlet and outlet structures. Mow slope sides and embankment when grass exceeds 12 inches in height, but do not mow filter bed (Woody vegetation is prohibited on the embankment). If using Filter Bed Mix, may mow bed twice per year. Remove grass clippings. Re-seed or re-plant in accordance with approved landscaping plans.
Mulch Layer	Check mulch for adequate cover, sediment accumulation, or discoloration.	Replace and remove old mulch and excess sediment. Provide adequate mulch cover according to approved design.

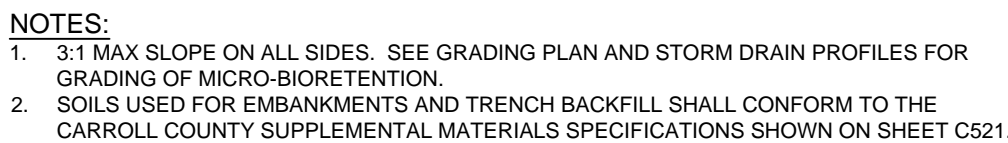
Inspection Item	Inspection Requirements	Remedial Action
Dewatering	Check ponding level. Surface storage must dewater within 48 hours of rainfall. Noticeable odors, stained water on the filter surface or at the outlet, or the presence of algae or aquatic vegetation are indicators of anaerobic conditions and inadequate dewatering of the facility.	Remove and replace top few inches of media. If the facility does not function as intended after the above action, excavate, remove, clean, and replace stone, underdrain, media, and plants in accordance with approved plans.
Erosion	Check inlets, filter bed, outlets, and side slopes for erosion, rills, gullies, and runoff channelization.	Re-grading may be required when concentrated flow causes rills or gullying through the facility. Grade, vegetate, and/or armor to provide stable conveyance in accordance with approved plans.
Sediment Accumulation	Check for accumulated sediment in conveyance systems and on filter bed. Check for clogged openings (blockages).	When sediment accumulates to 1 inch depth, remove sediment. Remove sediment from clogged openings. Dispose of all sediment in an acceptable location

Inspection Item	Inspection Requirements	Remedial Action
Structural Components	Check for evidence of structural deterioration, spalling, or cracking. Inlet and outlet structures as well as riprap outfalls must be in good condition.	Repair to good condition according to specifications on the approved plans.
Overall Function of Facility	Check that practice is functioning as designed.	Repair to good condition according to specifications on the approved plans.

 $\#N/\Lambda$

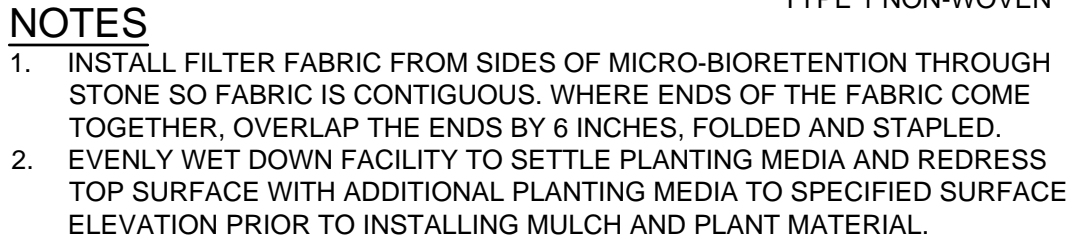
Chad N. Wasleski, PE, CFM
Carroll County Stormwater Management Program Engineer
March 20, 2020; Dec. 20, 2022, Jan. 6, 2023; Revised July 25, 2023; Revised Nov. 20, 2023

Chad N. Wasileski, PE, CFM
Carroll County Stormwater Management Program Engineer
March 20, 2020; Dec. 20, 2022, Jan. 6, 2023; Revised July 25, 2023; Revised Nov. 20, 2023



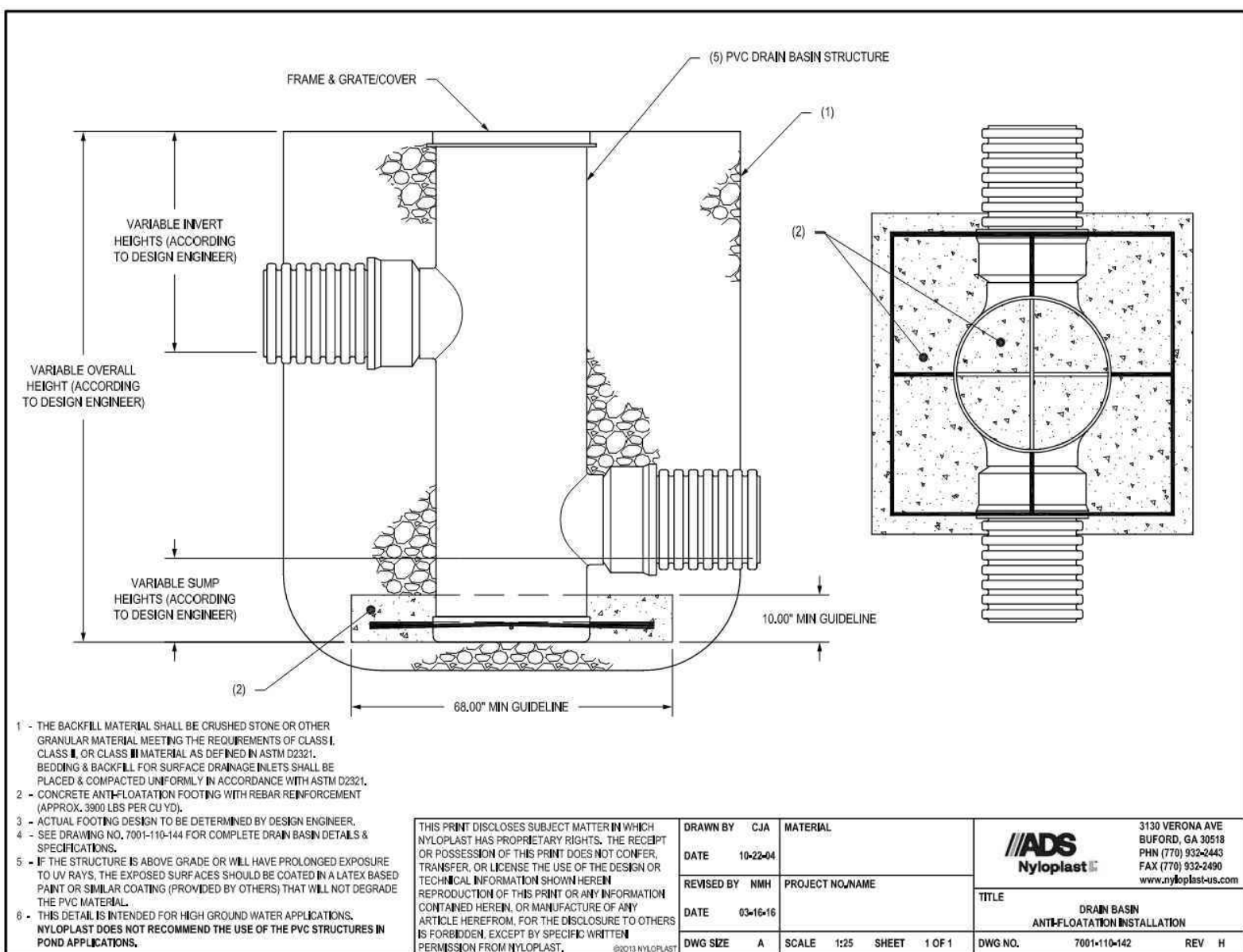
1 TYPICAL SECTION: MICRO-BIORETENTION

NOT TO SCALE



NOT TO SCALE

Martin B. Covington III, PE
SWM Program Engineer
DISTRIBUTED FOR COMMENT
C.C. SURVEYORS MTG. SEPT. 16, 2009
EFFECTIVE DATE: NOVEMBER 18, 2009



WE HEREBY CERTIFY THAT ALL PROPOSED WORK SHOWN ON THESE CONSTRUCTION DRAWING(S) WILL BE CONDUCTED IN STRICT ACCORDANCE WITH THESE PLANS. I ALSO UNDERSTAND THAT IT IS MY RESPONSIBILITY TO HAVE THE CONSTRUCTION SUPERVISED AND CERTIFIED, INCLUDING THE SUBMITTAL OF "AS-BUILT" PLANS CERTIFIED BY A REGISTERED PROFESSIONAL ENGINEER WITHIN THIRTY(30) DAYS OF COMPLETION OF WORK ON THE STORMWATER MANAGEMENT FACILITY. AFTER COMPLETION OF THE STORMWATER MANAGEMENT FACILITY/FACILITIES WILL BE INSPECTED DURING CONSTRUCTION BY A REGISTERED PROFESSIONAL ENGINEER OR PROFESSIONAL LAND SURVEYOR, AS APPROPRIATE, IN ACCORDANCE WITH SECTIONS 151.095 AND 151.096 OF THE CODE OF PUBLIC LOCAL LAWS AND ORDINANCES OF CARROLL COUNTY.

ENGINEER'S "AS-BUILT" CERTIFICATION

I HEREBY CERTIFY THAT THE FACILITY/FACILITIES SHOWN ON THIS/THESE PLAN(S) WAS/WERE CONSTRUCTED AS SHOWN ON THE "AS-BUILT" PLANS AND MEETS THE APPROVED PLANS AND SPECIFICATIONS. I ALSO CERTIFY THAT THIS/THESE FACILITY/FACILITIES WERE INSPECTED IN ACCORDANCE WITH SECTIONS 151.095 AND 151.096 OF THE CODE OF PUBLIC LOCAL LAWS AND ORDINANCES OF CARROLL COUNTY AND I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

I HEREBY CERTIFY THAT THE FACILITY/FACILITIES SHOWN ON THIS/THESE PLAN(S) WAS/WERE CONSTRUCTED AS SHOWN ON THE "AS-BUILT" PLANS AND MEETS THE APPROVED PLANS AND SPECIFICATIONS. I ALSO CERTIFY THAT THIS/THESE FACILITY/FACILITIES WERE INSPECTED IN ACCORDANCE WITH SECTIONS 151.095 AND 151.096 OF THE CODE OF PUBLIC LOCAL LAWS AND ORDINANCES OF CARROLL COUNTY AND I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

COUNTY FILE NUMBER:
S-23-0030

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TOOL PRE-K, TIONS

**FRIENDSHIP VALLEY ELEMENTARY SCHOOL
PRIDE SUITE ADDITIONS**

CARROLL COUNTY PUBLIC SCHOOLS

11100 GIST ROAD, WESTMINSTER, MD 21157

PROJECT NO: 631374	
DATE:	
REVISIONS	
DATE	DESCRIPTION
9/18/24	CD PROGRESS SET
10/25/24	95% CD SET

SWM DETAILS & NOTES

C521

SHEET 21 OF 24



TEST PIT LOG

Contract No.: 23209.2D Date: December 28, 2023
Project: Friendship Valley CCES DWK Representative: E. Kussman
Location: Westminster, Maryland
Test Pit No.: DWK-SWM-1 Groundwater EL: Dry
Surface Elevation: 774.0 Excavation Equipment: Mini Excavator

DEPTH (FT.)	ELEV.	SOIL DESCRIPTION AND OBSERVATIONS	STRATUM	REMARKS		
0	774.0	Topsoil 4"				
0.5	773.5	FILL, sandy silt, sub-angular, blocky, moist, brown	A	FILL		
1	773.0					
1.5	772.5					
2	772.0	SANDY SILT, sub-angular, blocky, moist, orangish brown	B	Residual		
2.5	771.5					
3	771.0					
3.5	770.5					
4	770.0					
4.5	769.5	SANDY LEAN CLAY, angular, blocky, moist, orangish brown				
5	769.0					
5.5	768.5	Infiltration Test Depth				
6	768.0					
6.5	767.5					
7	767.0					
7.5	766.5					

8	766.0			
8.5	765.5			
9	765.0			
9.5	764.5			
10	764.0			
Bottom of Test Pit @ 10.0 feet				

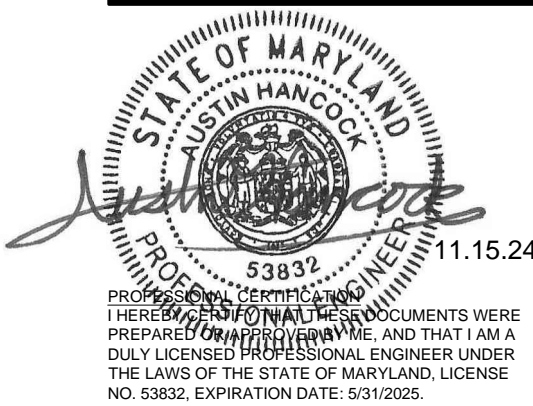


TEST PIT LOG

Contract No.: 23209.2D Date: December 28, 2023
Project: Friendship Valley CCES DWK Representative: E. Kussman
Location: Westminster, Maryland
Test Pit No.: DWK-SWM-2 Groundwater EL: Dry
Surface Elevation: 771.0 Excavation Equipment: Mini Excavator

DEPTH (FT.)	ELEV.	SOIL DESCRIPTION AND OBSERVATIONS	STRATUM	REMARKS	
0	771.0	Topsoil 5"			
0.5	770.5	FILL, sandy lean clay, sub-angular, blocky, moist, brown	A	FILL	
1	770.0				
1.5	769.5	SANDY LEAN CLAY, sub-angular, blocky, moist, orangish brown	B	Residual	
2	769.0				
2.5	768.5				
3	768.0				
3.5	767.5				
4	767.0	SANDY LEAN CLAY, angular, blocky, moist orangish brown			
4.5	766.5				
5	766.0				
5.5	765.5				
6	765.0				Infiltration Test Depth
6.5	764.5				
7	764.0				
7.5	763.5				

8	763.0			
8.5	762.5			
9	762.0			
9.5	761.5			
10	761.0			
Bottom of Test Pit @ 10.0 feet				



PSC #06.038

FRIENDSHIP VALLEY ELEMENTARY SCHOOL PRE-K, KINDERGARTEN & PRIDE SUITE ADDITIONS



CARROLL COUNTY PUBLIC SCHOOLS
1100 GIST ROAD, WESTMINSTER, MD 21157

PROJECT NO: 631374	
DATE:	
REVISIONS	
DATE	DESCRIPTION
9/18/24	CD PROGRESS SET
10/25/24	95% CD SET

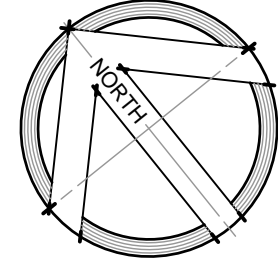
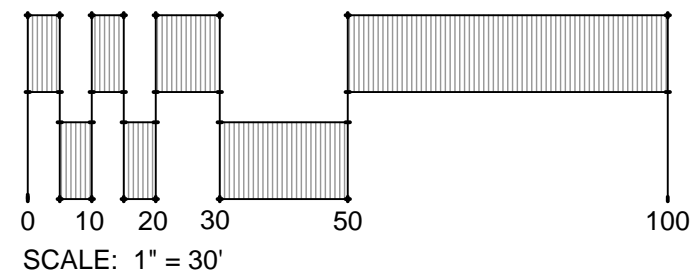
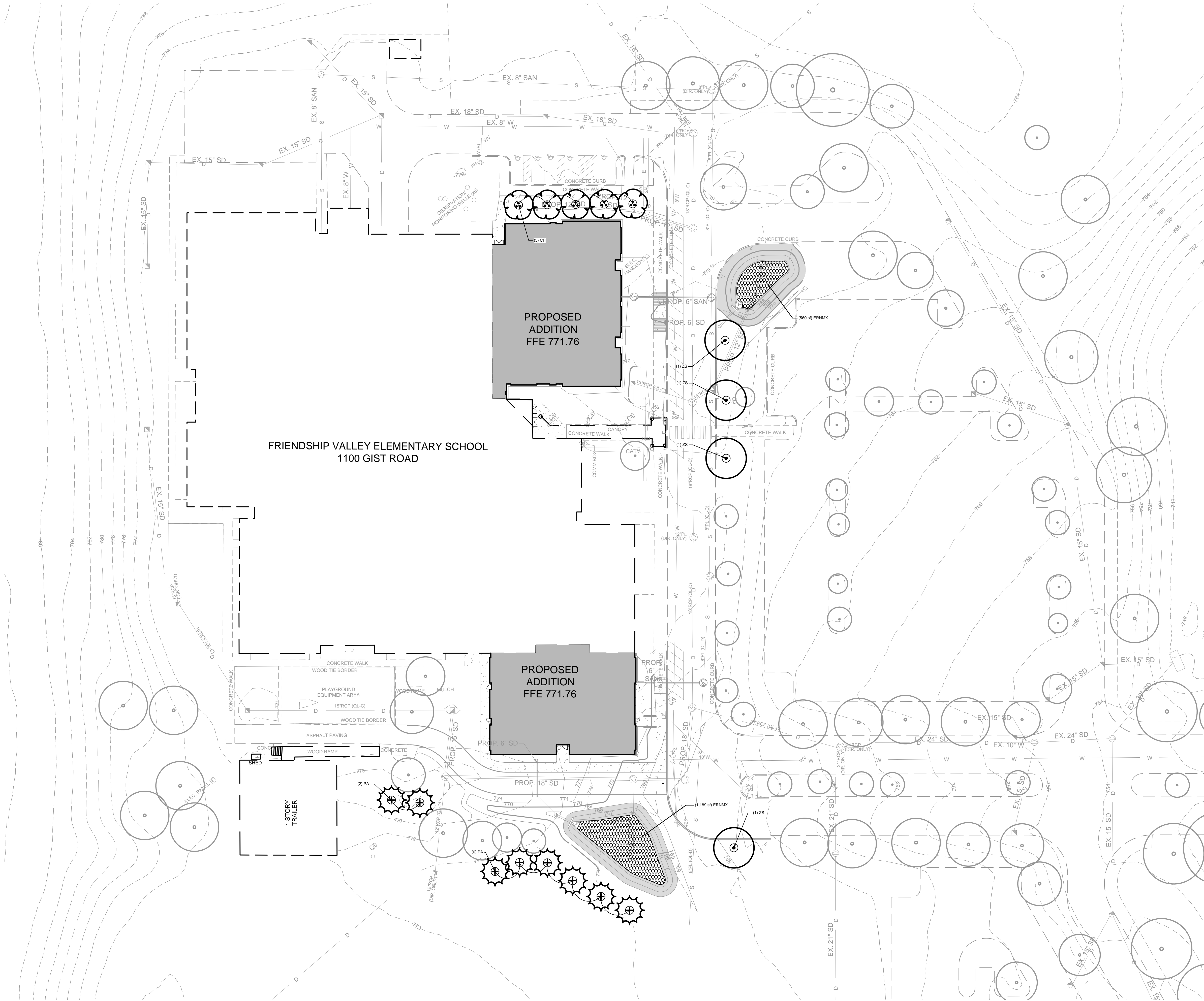
SWM TEST PITS

COUNTY FILE NUMBER:
S-23-0030

C522

MOSELEYARCHITECTS

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MOSELEYARCHITECTS.COM



COUNTY FILE NUMBER:
S-23-0030



LEGEND

- | | |
|--|----------------------------|
| | PROPERTY LINE |
| | EXISTING BUILDING |
| | EXISTING WALK |
| | EXISTING ROAD |
| | EXISTING CURB |
| | EXISTING TREES |
| | EXISTING SHRUBS |
| | EXISTING STORM DRAIN |
| | EXISTING WATER |
| | EXISTING SANITARY SEWER |
| | EXISTING TELEPHONE |
| | EXISTING ELECTRIC |
| | EXISTING OVERHEAD ELECTRIC |
| | EXISTING LIGHTING |
| | EXISTING CONTOURS |
| | PROPOSED BUILDING |
| | PROPOSED BUILDING OVERHANG |
| | PROPOSED SIDEWALK |
| | PROPOSED BITUMINOUS PAVING |
| | PROPOSED CURB |
| | PROPOSED CONTOURS |
| | PROPOSED SHADE TREE |
| | PROPOSED ORNAMENTAL TREE |
| | PROPOSED EVERGREEN TREE |
| | PROPOSED PLANT BED LINE |
| | PROPOSED SOD |
| | PROPOSED SEEDING |

MOSELEYARCHITECTS



PSC #06.038

FRIENDSHIP VALLEY ELEMENTARY SCHOOL PRE-K, KINDERGARTEN & PRIDE SUITE ADDITIONS

PROJECT NO. 631374	DATE:	REVISIONS
DATE	DESCRIPTION	
9/18/24	CD PROGRESS SET	
10/25/24	95% CD SET	

LANDSCAPE PLAN

L101

SHEET 23 OF 24

1414 KEY HIGHWAY, SECOND FLOOR, BALTIMORE, MD 21230
PHONE (410) 539-4300 FAX (410) 539-0660
MOSELEYARCHITECTS.COM

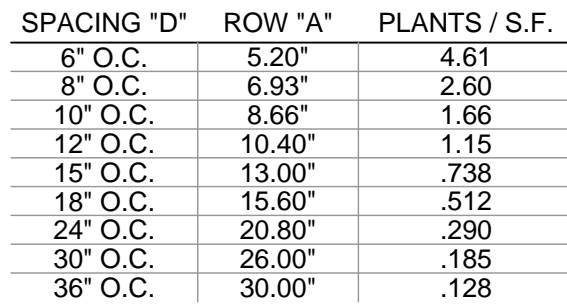
CARROLL COUNTY PUBLIC SCHOOLS
1100 GIST ROAD, WESTMINSTER, MD 21157

CODE	QTY	BOTANICAL / COMMON NAME	SIZE	SPACING	REMARKS
SHADE TREES					
ZS	4	ZELKOVA SERRATA "GREEN VASE" / GREEN VASE JAPANESE ZELKOVA	2.5" CAL. / B&B	AS SHOWN	STRONG SINGLE LEADER, HEAVY
ORNAMENTAL TREES					
CF	5	CORNUS FLORIDA "CHEROKEE BRAVE" / CHEROKEE BRAVE DOGWOOD	12" HT / B&B	AS SHOWN	MULTISTEMMED, 3 STEM MINIMUM
EVERGREEN TREES					
PA	8	PICEA ABIES / NORWAY SPRUCE	8" HT / B&B	AS SHOWN	CONSISTENT FORM; FULL/HEAVY; STRONG SINGLE LEADER
PERENNIALS, GRASSES, & GROUNDCOVERS					
ERNMX	1,749 SF	ERNST RAIN GARDEN MIX 180	SEED		1 LB PER 2178 SQFT



NOTES:

1. THE CENTRAL LEADER SHALL NOT BE CUT.
2. CONTRACTOR SHALL LOOSEN ROOTS OF ALL CONTAINER GROWN MATERIAL TO ENCOURAGE LATERAL GROWTH OF ROOTS.
3. CONTRACTOR SHALL SCARIFY SIDES OF TREE PIT TO ELIMINATE SPADE GLAZING.



PLANT SPACING CHART

NOTE:
FOR USE ONLY WHEN PLANTS
ARE SPACED EQUIDISTANT
FROM EACH OTHER AS SHOWN,
AND SPECIFIED IN THE PLANT
LIST.



NOTES:

1. CONTRACTOR SHALL LOOSEN ROOTS OF ALL CONTAINER GROWN MATERIAL TO ENCOURAGE LATERAL GROWTH OF ROOTS.
2. CONTRACTOR SHALL SCARIFY SIDES OF SHRUB PIT TO ELIMINATE SPADE GLAZING.
3. PERENNIALS SHALL BE PLANTED IN 12" DEPTH

1. THESE NOTES APPLY TO ALL PLANTING IN THIS CONTRACT)
1. QUANTITIES SHOWN ON THE PLANT LIST ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. SYMBOLS ON THE PLAN SHALL TAKE PRECEDENCE. CONTRACTOR SHALL VERIFY ALL PLANT QUANTITIES TO HIS OWN SATISFACTION.
2. PLANT MATERIAL SUBSTITUTIONS ARE SUBJECT TO APPROVAL BY THE PROJECT LANDSCAPE ARCHITECT.
3. PLANT MATERIAL SHALL BE TAGGED AT THE SOURCE BY THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE UNLESS THE REQUIREMENT IS SPECIFICALLY WAIVED.
4. LOCATIONS OF ALL PLANT MATERIAL SHALL BE STAKED FOR APPROVAL BY THE PROJECT LANDSCAPE ARCHITECT.
5. ALL SHRUB AND GROUND COVER AREAS SHALL BE PLANTED IN CONTINUOUS PREPARED BEDS MULCHED WITH COMPOSTED HARDWOOD MULCH AS DETAILED AND SPECIFIED.
6. PLANTING BEDS SHALL HAVE POSITIVE DRAINAGE WITH A MINIMUM 2% SLOPE.
7. CONTRACTOR SHALL VERIFY ACCURACY OF BASE INFORMATION AND EXISTING CONDITIONS AND UTILITIES IN THE FIELD TO HIS OWN SATISFACTION. UTILITIES BID SHALL BE BASED ON ACTUAL SITE CONDITIONS. NO EXTRA PAYMENT SHALL BE MADE FOR WORK ARISING FROM SITE CONDITIONS DIFFERING FROM THOSE INDICATED ON DRAWINGS AND SPECIFICATIONS.
8. THE CONTRACTOR SHALL MAINTAIN AVAILABILITY OF A MINIMUM OF TWO WORKING DAYS PRIOR TO BEGINNING PLANTING AND CONSTRUCTION.
9. DAMAGE TO EXISTING CONDITIONS AND UTILITIES SHALL BE REPAIRED AND RESTORED AT THE EXPENSE OF THE CONTRACTOR.
10. ALL PLANT MATERIAL SHALL BE NURSERY GROWN AND SHALL CONFORM TO AMERICAN NURSERY & LANDSCAPE ASSOCIATION'S AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1.
11. INSTALLATION STANDARDS TO CONFORM TO THE MOST RECENT VERSION OF THE ANSI A300 STANDARDS PART 6 - TRANSPLANTING AND LANDSCAPE SPECIFICATIONS GUIDELINES OF THE LANDSCAPE CONTRACTORS ASSOCIATION, MARYLAND, DISTRICT OF COLUMBIA AND VIRGINIA.
12. PLANTING ON INDIVIDUAL LOTS SHALL BE INSTALLED UPON FINAL GRADING INSPECTION. NO FINAL GRADING APPROVAL SHALL BE GIVEN ON THE BUILDING PERMIT UNTIL LANDSCAPING IS COMPLETE.

1. LAWN AREAS SHALL BE MOWED TO A HEIGHT OF 2 TO 3 INCHES AND NOT ALLOWED TO REACH A HEIGHT OF 4 INCHES BEFORE MOWING.
2. ALL CURBS AND WALKS SHALL BE EDGED AS NEEDED.
3. ALL LAWN AREAS ADJACENT TO BUILDING FACES OR STRUCTURES SHALL BE TRIMMED.
4. A SLOW RELEASE NITROGEN BALANCED FERTILIZER WITH A 2-1-1 RATIO SHALL BE APPLIED AT A RATE OF 2 POUNDS OF NITROGEN PER 1000 SQUARE FEET IN SEPTEMBER, OCTOBER, AND FEBRUARY.
5. LIME SHALL BE APPLIED AT THE RATE DETERMINED BY A SOILS REPORT.
6. IT IS RECOMMENDED THAT LAWN AREAS BE TREATED IN MID-MARCH TO EARLY APRIL WITH PRE-EMERGENT HERBICIDE (BETASAN) OR EQUAL APPLIED AT THE MANUFACTURER'S RECOMMENDED RATE.
7. A POST-EMERGENT HERBICIDE (TRIMEC) OR EQUAL IS RECOMMENDED TO BE SPRAYED ON LAWN AREAS IN THE LATE SPRING OR THE EARLY FALL. FOLLOW MANUFACTURER'S RATES AND RECOMMENDATIONS.
8. INSECTICIDES AND FUNGICIDES ARE RECOMMENDED FOR INSECT AND DISEASE CONTROL.
9. RESEED BARE AREAS OF LAWN AS NECESSARY. YEARLY AERATION IS RECOMMENDED.
10. GRASS, LITTER, AND DEBRIS SHALL BE REMOVED FROM LAWN AREAS, PARKING LOTS, AND SHRUB BEDS AS NEEDED.
11. MULCH ALL SHRUB AND GROUNDCOVER BEDS YEARLY WITH 3 INCHES OF SHREDDED HARDWOOD BARK.
12. PERMIT SHRUBS AND TREES TO GROW AND ENLARGE TO THEIR DESIGN SIZE. CONSULT PROJECT LANDSCAPE ARCHITECT FOR DETAILS.
13. PRUNE TREES IN ACCORDANCE WITH LANDSCAPE CONTRACTORS ASSOCIATION GUIDELINES.
14. THE OWNER OF THE PROJECT, WHICHH LANDSCAPING HAS BEEN INSTALLED PURSUANT TO THIS CHAPTER SHALL MAINTAIN THE LANDSCAPING IN GOOD CONDITION WITH PERPETUITY. A LANDSCAPE MAINTENANCE AGREEMENT SHALL BE REQUIRED. FAILURE TO REPLACE DEAD OR DYING PLANTS OR THE REMOVAL OF ANY INSTALLED PLANT IS A VIOLATION OF THIS CHAPTER.

(THESE NOTES APPLY TO ALL PLANTING IN THIS CONTRACT)

1. ALL PLANTS SHALL BE IDENTIFIED IN ACCORDANCE WITH THE LATEST EDITION OF HORTUS THIRD, BY THE STAFF OF THE HORTICULTURAL SOCIETY OF VIRGINIA.

2. ALL NURSERY STOCK SHALL CONFORM TO AMERICAN ASSOCIATION OF NURSERYMEN, INC., STANDARDS AS DESCRIBED IN AMERICAN STANDARD FOR NURSERY STOCK, CURRENT ANSI Z60.1 SPECIFICATIONS.

3. LANDSCAPE SPECIFICATIONS SHALL CONFORM TO LANDSCAPE GUIDELINES FOR MARYLAND, WASHINGTON D.C., AND VIRGINIA LATEST EDITION. ALL NURSERY STOCK SHALL BE PLANTED IN ACCORDANCE WITH THE PROCEDURE AND OUTLINED THE EDITION OF THE GUIDELINES.

4. THREE INCHES OF TOPSOIL IS REQUIRED ON ALL DISTURBED AREAS TO BE LANDSCAPED, SEEDDED, OR SODDED.

(THESE NOTES APPLY TO ALL PLANTING IN THIS CONTRACT)

A MINIMUM OF 2 INSPECTIONS WILL BE REQUIRED. NO INSPECTIONS SHALL BE FINALIZED FROM NOVEMBER 1ST TO MARCH 1ST. TO BE CONSIDERED ACCEPTABLE, NO MORE THAN 1/3 OF A PLANT MAY BE DEAD.

1. INITIAL INSPECTION: THIS INSPECTION SHALL BE PERFORMED BY THE COUNTY WHEN PLANTING IS COMPLETED TO VERIFY COMPLIANCE WITH THE APPROVED PLANTING PLAN.
2. FINAL INSPECTION: THIS INSPECTION SHALL BE PERFORMED BY THE COUNTY 12 MONTHS AFTER THE INITIAL PLANTING.

COUNTY FILE NUMBER: S-23-0030