

GENERAL NOTES & SITE DATA:

- TAX MAP 32, GRID 2, PARCEL 276
- DEED REFERENCE: 1810/540
PLAT REFERENCE: 234/65
- BASE MAP INFORMATION, INCLUDING BOUNDARY & TOPOGRAPHY PROVIDED BY DON R. BAUMGARTNER.
- OWNER/DEVELOPER: COUNTY COMMISSIONERS OF WORCESTER COUNTY MARYLAND
1 WEST MARKET STREET, ROOM 1103
SNOW HILL, MD 21863
410-632-1194
- SURVEYOR: DON R. BAUMGARTNER LAND SURVEYOR
31618 SHAVOX ROAD
SALISBURY, MD 21804
PHONE: 443-783-4862
EMAIL: DON270@VERIZON.NET
- ENGINEER: J. STACEY HART & ASSOCIATES, INC.
POST OFFICE BOX 6
SNOW HILL, MARYLAND 21863
CELL: 410-430-4169
- CURRENT ZONING: R-1
FRONT - 25'
REAR - 35'
WIDTH 10' SUM OF WIDTHS 25'
- CHURCHES*, SCHOOLS*, DAY-CARE CENTERS*, PUBLIC UTILITY USES, 3*
(SEE CODE, SEC 108-329)
- SOIL TYPES: OtA - OTHELLO SILT LOAMS, HYDROLOGIC SOIL GROUP "D"
MPa - MATTAPEX SANDY LOAM, HYDROLOGIC SOIL GROUP "C"
- PARCEL SIZE: ±75.7 ACRES
- LIMITS OF DISTURBANCE (LOD) = ±178,570 S.F./4.10 ACRES
- THIS SITE IS NOT LOCATED WITHIN CRITICAL AREAS.
- NON-TIDAL WETLANDS: NO WETLANDS FROM NATIONAL WETLANDS SITE WITHIN THE LIMITS OF SURVEY/DISTURBANCE. HOWEVER, WETLANDS ARE SHOWN WITHIN THE LIMITS OF SURVEY ON PLAT ENTITLED "FOREST CONSERVATION EASEMENT PLAT", DATED 04-13-2009, RECORDING REF. SVH 234/65.
- PARKING SPACES (9x20): 273 SPACES
HANDICAP: 8 SPACES
TOTAL: 281 SPACES
- SUPPLY AND INSTALL NEW PARKING BUMPERS AS REQUIRED FOR PERIMETER SPACES.

LEGEND:

- +26.0 EXISTING SPOT ELEVATION
- 20.0 EXISTING CONTOUR
- EXISTING SIGN (TO BE SAVED & RELOACTED)
- EXISTING PAVEMENT
- SF PROPOSED SILT FENCE
- LOD PROPOSED LIMITS OF DISTURBANCE
- SCS PROPOSED STABILIZED CONSTRUCTION ENTRANCE

SHEET INDEX

- C1 EXISTING CONDITIONS & EROSION CONTROL
- C2 SITE PLAN
- C3 STORMWATER MANAGEMENT PLAN
- C4 GRADING PLAN
- C5 GRADING PLAN
- C6 EROSION & SEDIMENT CONTROL NOTES

OWNERS CERTIFICATION

THE CONTRACTOR AND OWNER SHALL PROVIDE SUPERVISION AND CERTIFICATION OF ALL CONSTRUCTION OF STORMWATER MANAGEMENT PRACTICES THAT PROVIDE INFILTRATION AND FILTERING, BY A PROFESSIONAL ENGINEER DULY LICENSED IN THE STATE OF MARYLAND.

I, THE UNDERSIGNED, CERTIFY THAT ALL LAND CLEARING, GRADING, CONSTRUCTION AND DEVELOPMENT SHALL BE DONE IN ACCORDANCE WITH THE APPROVED PLAN.

AUTHORIZED REPRESENTATIVE (SIGNATURE) _____ DATE _____

PRINTED NAME _____ DATE _____

J. STACEY HART & ASSOCIATES, INC.

POST OFFICE BOX 6
SNOW HILL, MD 21863
PHONE: 410-390-8096
FAX: 877-646-4365
EMAIL: stacey@jstaceyhart.com

JSH
LAND SURVEYING
ENGINEERING

SCALE: 1" = 2000'

REVISIONS	DATE	REVISED FOR:

**PROPOSED PARKING LOT
NORTHERN WORCESTER COUNTY
ATHLETIC COMPLEX
9039 WORCESTER HIGHWAY
TOWN OF BERLIN
WORCESTER COUNTY**

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THIS STATE.

LICENSE NO. MD 22788
EXPIRATION DATE: AUGUST 10, 2022

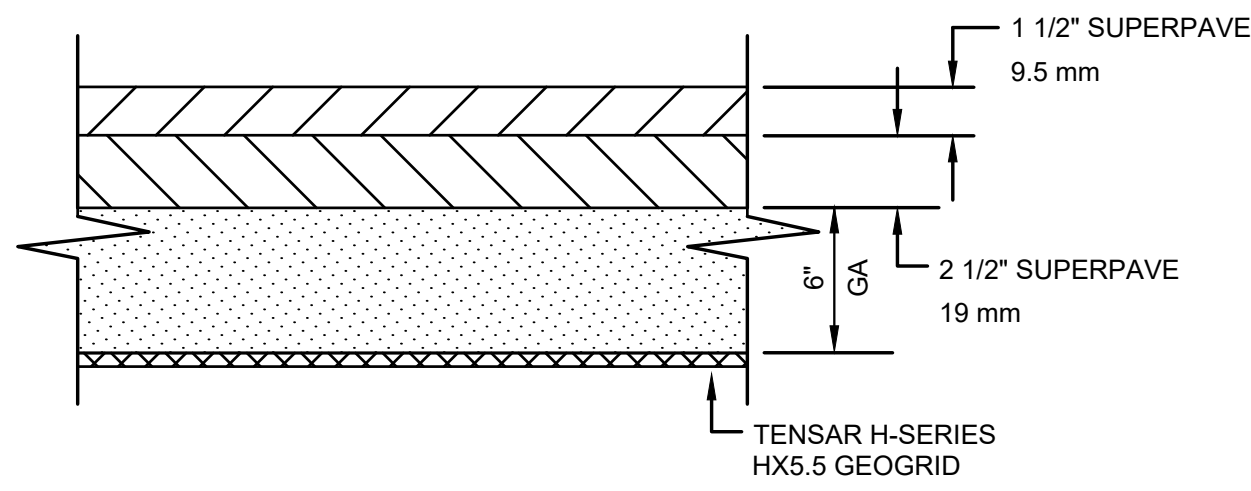
EXISTING CONDITIONS

DRAWN BY: j.s.h.	DATE: 08/04/2023
JOB NUMBER: 2020-110	C1
SCALE: 1"=50'	

EXISTING PARKING LOT - NOTES

REHAB EXISTING LOT:

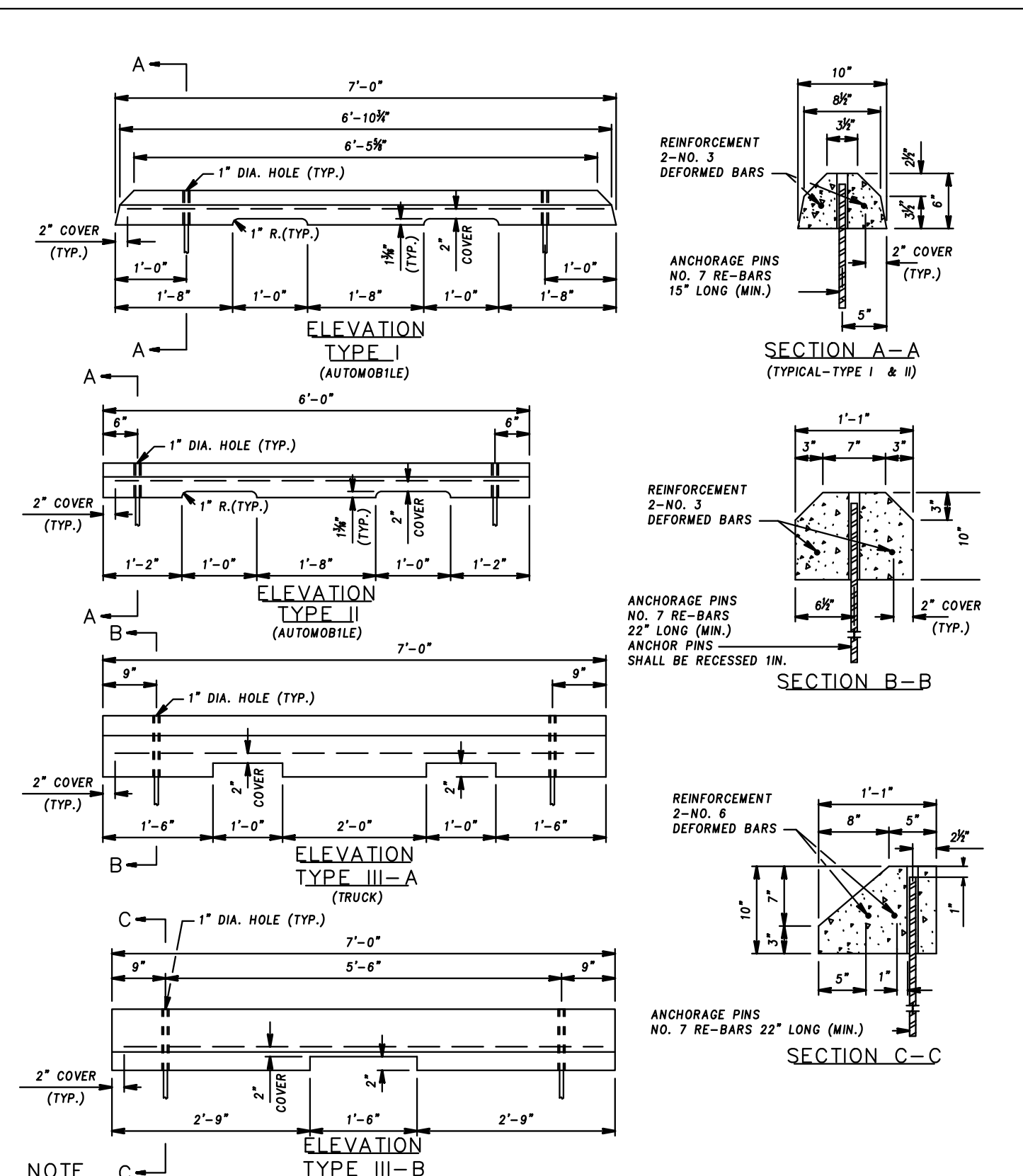
- MILL EXISTING WHITE STRIPING.
- SAWCUT PROPOSED ISLANDS AND CONSTRUCT NEW PCC CURB, TYPE 1, 6" ABOVE EXISTING GRADE.
- BACKFILL AND SEED NEW ISLANDS
- STRIPES NEW LOT/PARKING SPACES.



PAVEMENT CROSS-SECTION
NO SCALE

PROPOSED PAVEMENT CONSTRUCTION

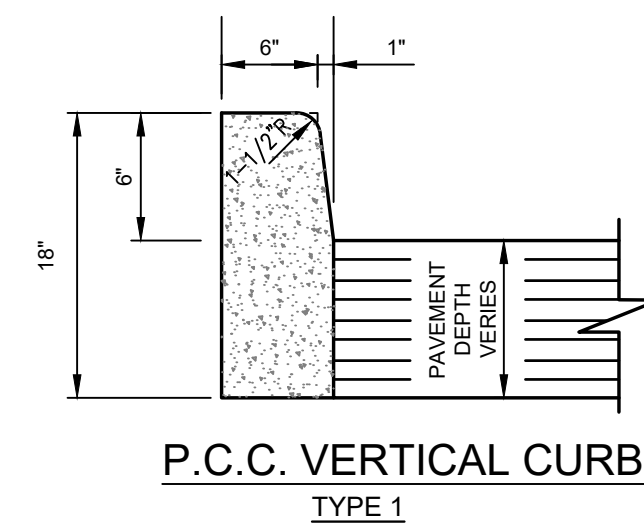
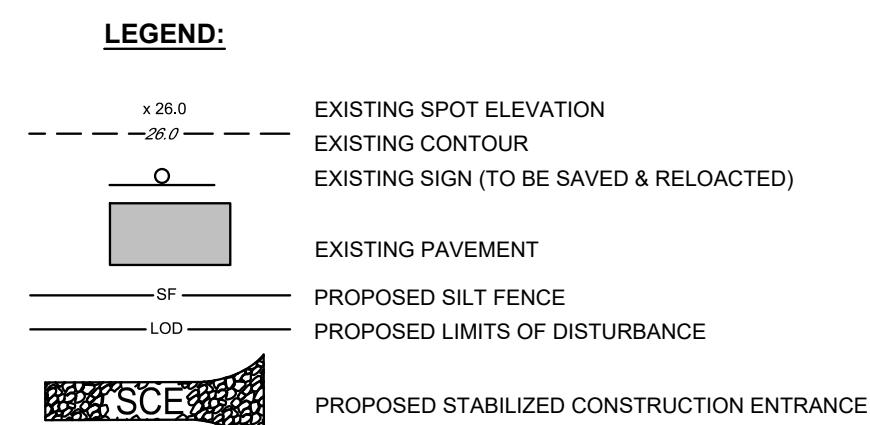
- CONTRACTOR TO REMOVE TOPSOIL AS NEEDED FOR PROPOSED PAVEMENT SECTION.
- UNSATURABLE SOILS SHALL BE REMOVED AND BACKFILLED WITH SUITABLE MATERIAL AND COMPACTED.
- SUBGRADE SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY (MODIFIED PROCTOR) AS APPROVED BY A GEOTECHNICAL ENGINEER.



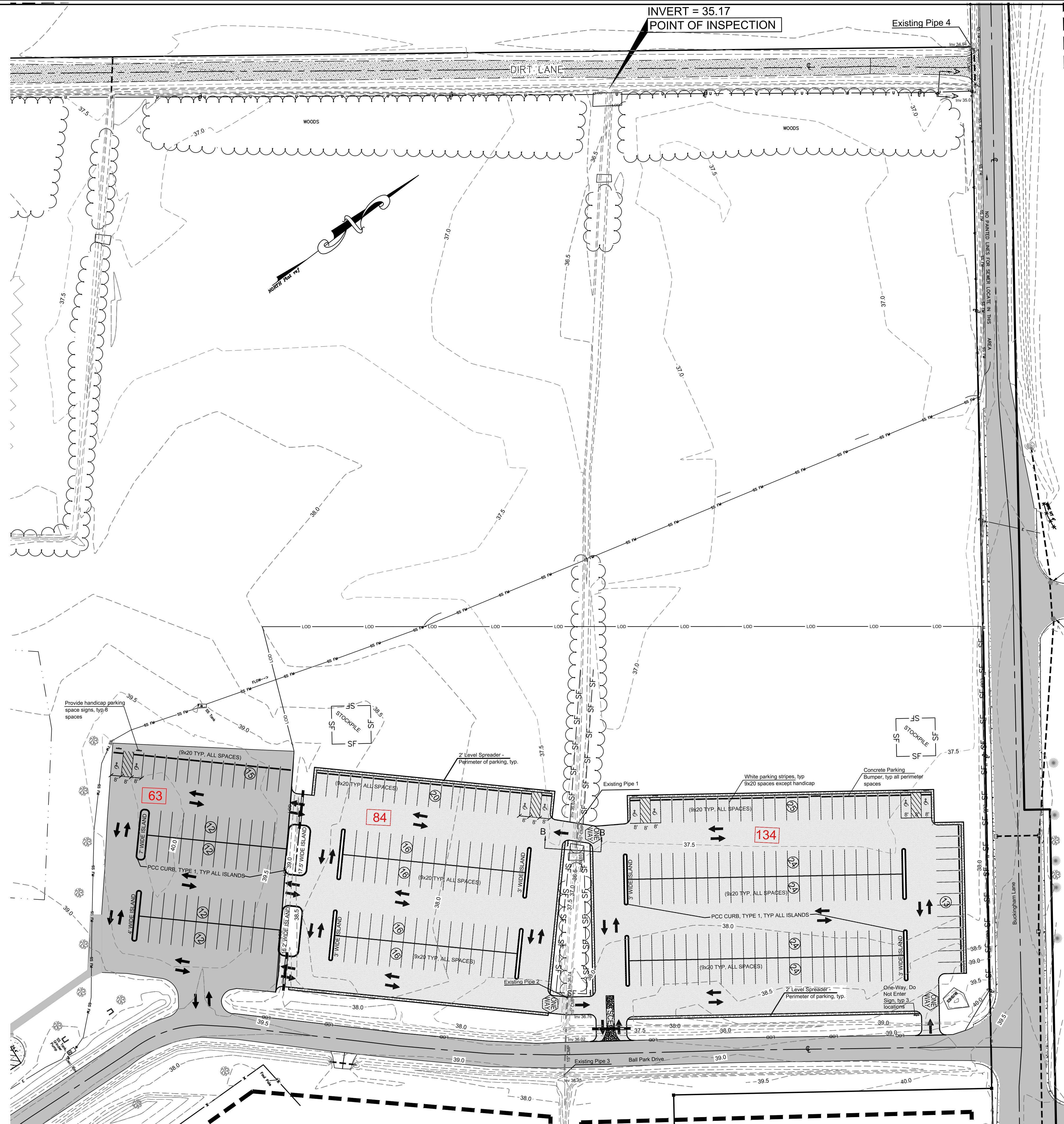
- NOTE**
- PRECAST CONCRETE WHEEL STOPS SHALL BE LOCATED AS SHOWN ON THE PLANS, THEN SECURED IN PLACE WITH TWO (2) NO. 7 REINFORCEMENT BARS PER WHEEL STOP.
 - COST OF THE REINFORCEMENT BARS WILL BE INCIDENTAL TO THE CONTRACT UNIT PRICE BID FOR EACH OF THE WHEEL STOPS.

PRECAST CONCRETE WHEEL STOPS
NO SCALE

MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
STANDARD NO. 634.04



CURB DETAIL, BERLIN STD 10.01
NO SCALE



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JSH

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REVISIONS

DATE	REVISED FOR:

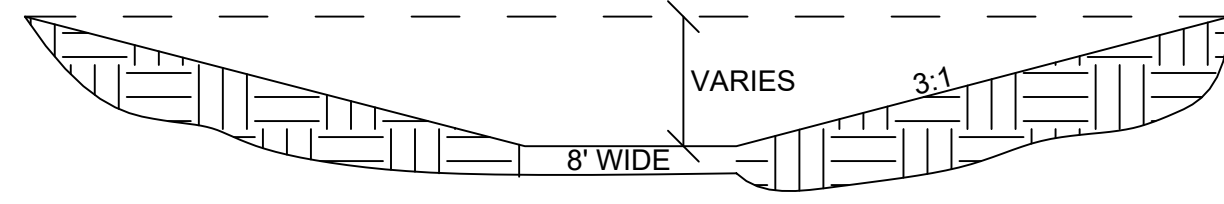
PROPOSED PARKING LOT
NORTHERN WORCESTER COUNTY
ATHLETIC COMPLEX
9039 WORCESTER HIGHWAY
TOWN OF BERLIN
WORCESTER COUNTY

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DAILY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THIS STATE.

LICENSE NO. MD 22788
EXPIRATION DATE: AUGUST 10, 2022

SITE PLAN

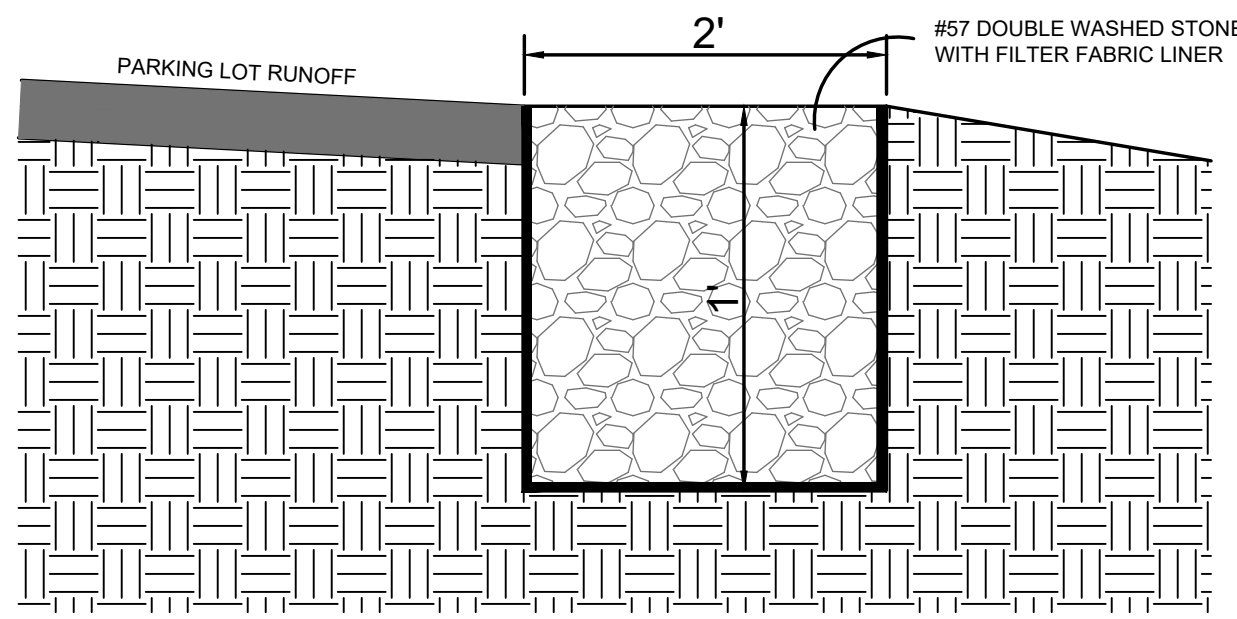
DRAWN BY: j.s.h.	DATE: 08/04/2023
JOB NUMBER: 2020-110	C2
SCALE: 1"=40'	



PROPOSED WET SWALE
NTS

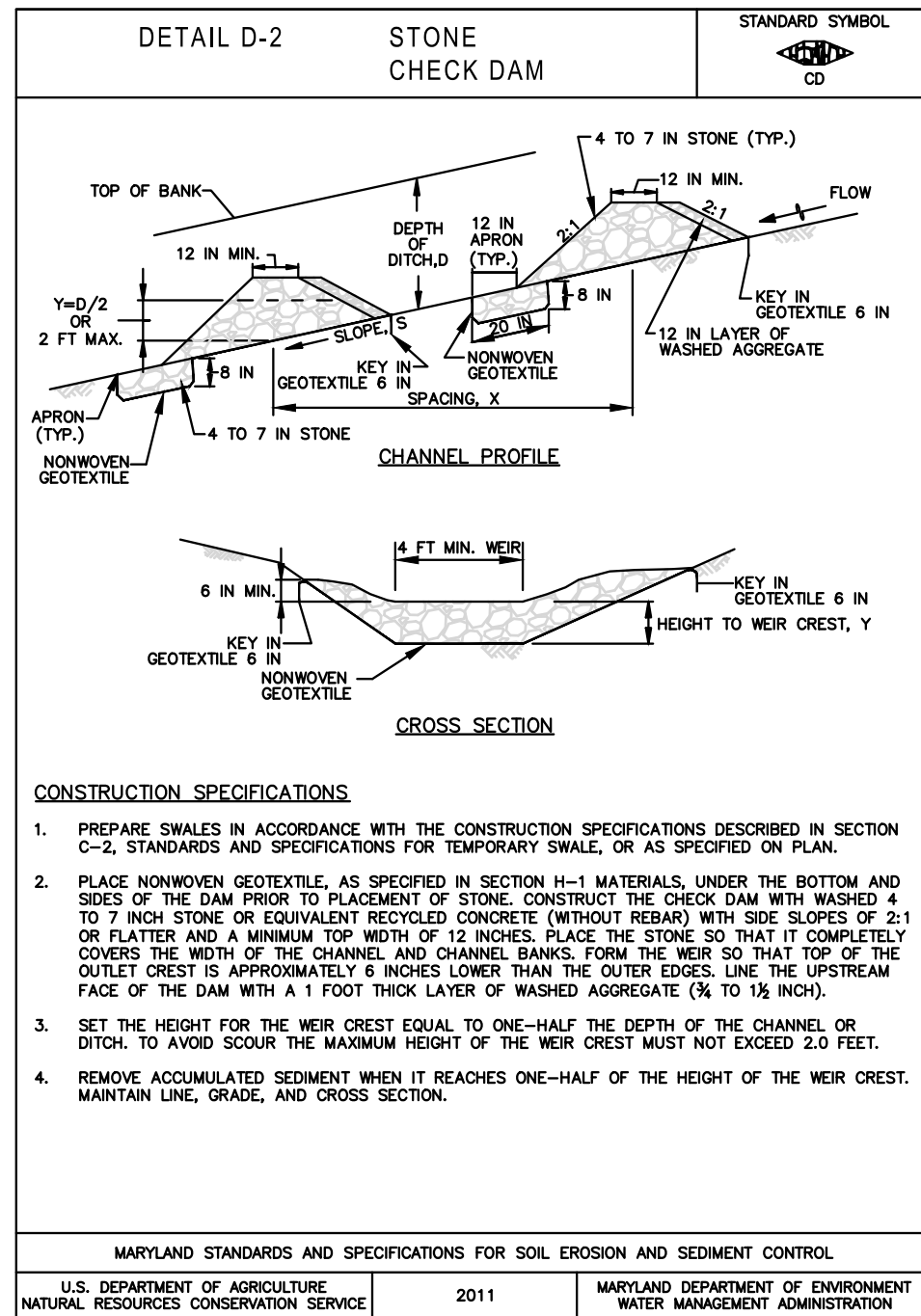
SWALE INSPECTION, OPERATION & MAINTENANCE - EXISTING & PROPOSED

- INSPECTION**
- DURING PLACEMENT AND BACKFILL.
 - UPON COMPLETION OF FINAL GRADING AND ESTABLISHMENT OF PERMANENT STABILIZATION.
- OPERATION & MAINTENANCE**
- DURING THE ESTABLISHMENT PERIOD, INSPECT CHANNEL AFTER EVERY RAINFALL.
 - AFTER GRASS IS ESTABLISHED, CHECK THE CHANNEL AT REGULAR INTERVALS AND AFTER EVERY HEAVY RAINFALL EVENT IMMEDIATELY MAKE REPAIRS. IT IS PARTICULARLY IMPORTANT TO CHECK THE CHANNEL OUTLET FOR BANK STABILITY AND EVIDENCE OF SCOURING.
 - REMOVE ALL SIGNIFICANT SEDIMENT ACCUMULATIONS WITHIN THE BOTTOM OF CHANNEL ONCE IT HAS ACCUMULATED TO 25% OF THE ORIGINAL DESIGN VOLUME IN ORDER TO MAINTAIN THE CARRYING CAPACITY.
 - MOW GRASS TO MAINTAIN A HEIGHT OF THREE TO FOUR INCHES.

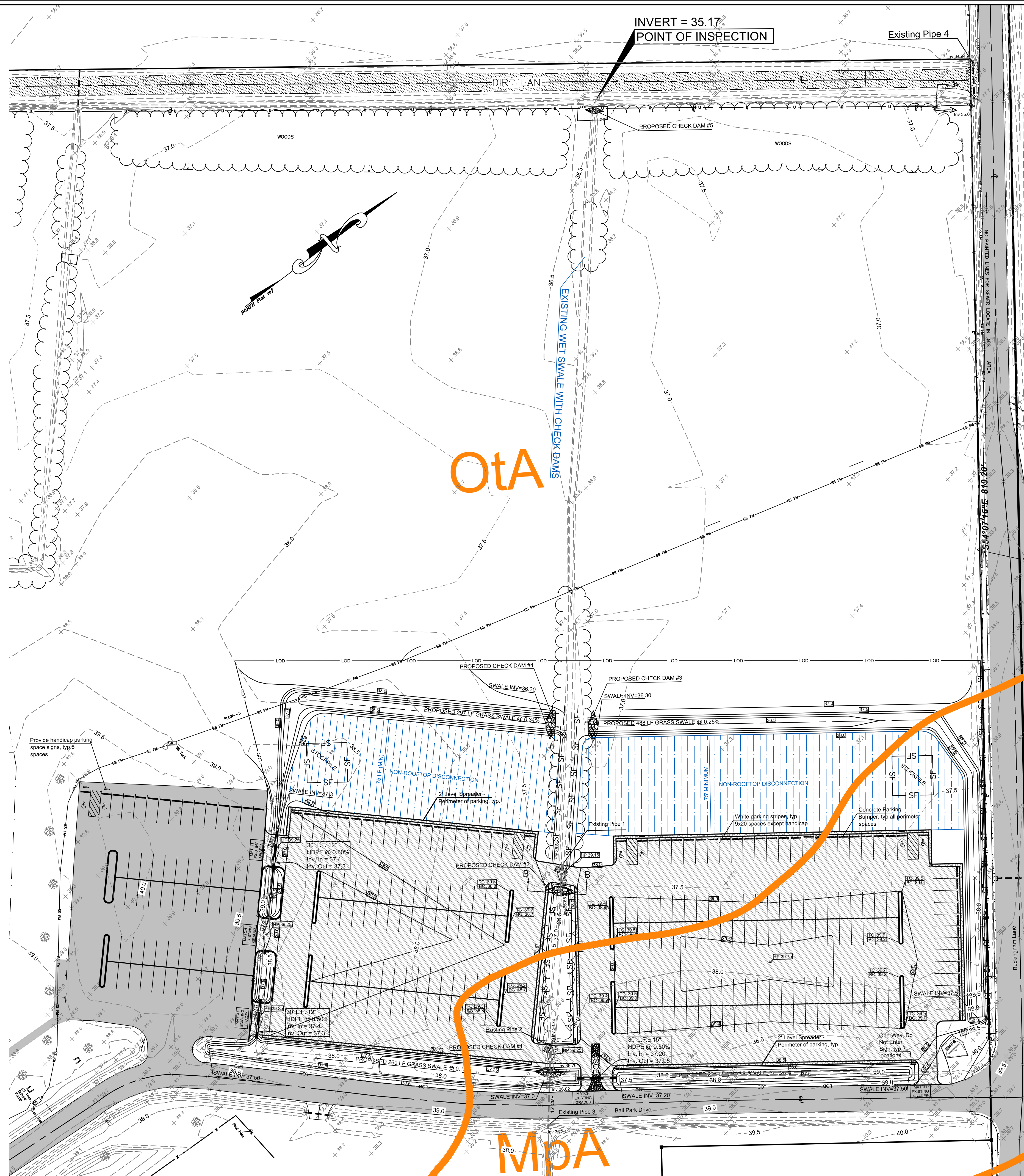


GRAVEL DIAPHRAGM (LEVEL SPREADER) DETAIL
NTS

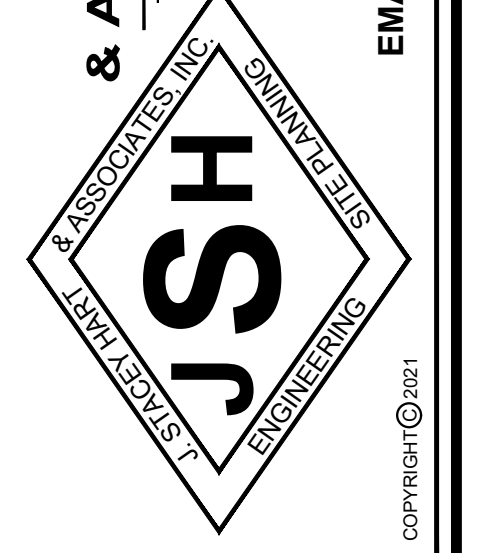
CHECK DAM #	WEIR INVERT
1	37.50
2	37.75
3	37.00
4	37.00
5	36.00



- LEGEND:**
- x 26.0 EXISTING SPOT ELEVATION
 - x 26.0 EXISTING CONTOUR
 - EXISTING SIGN (TO BE SAVED & RELOACTED)
 - EXISTING PAVEMENT
 - PROPOSED SILT FENCE
 - PROPOSED LIMITS OF DISTURBANCE
 - PROPOSED CONTOUR
 - PROPOSED SPOT ELEVATION
 - PROPOSED CHECK DAM
 - PROPOSED STABILIZED CONSTRUCTION ENTRANCE
 - PROPOSED DRAIN PIPE
 - PROPOSED PAVING



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WORCESTER COUNTY

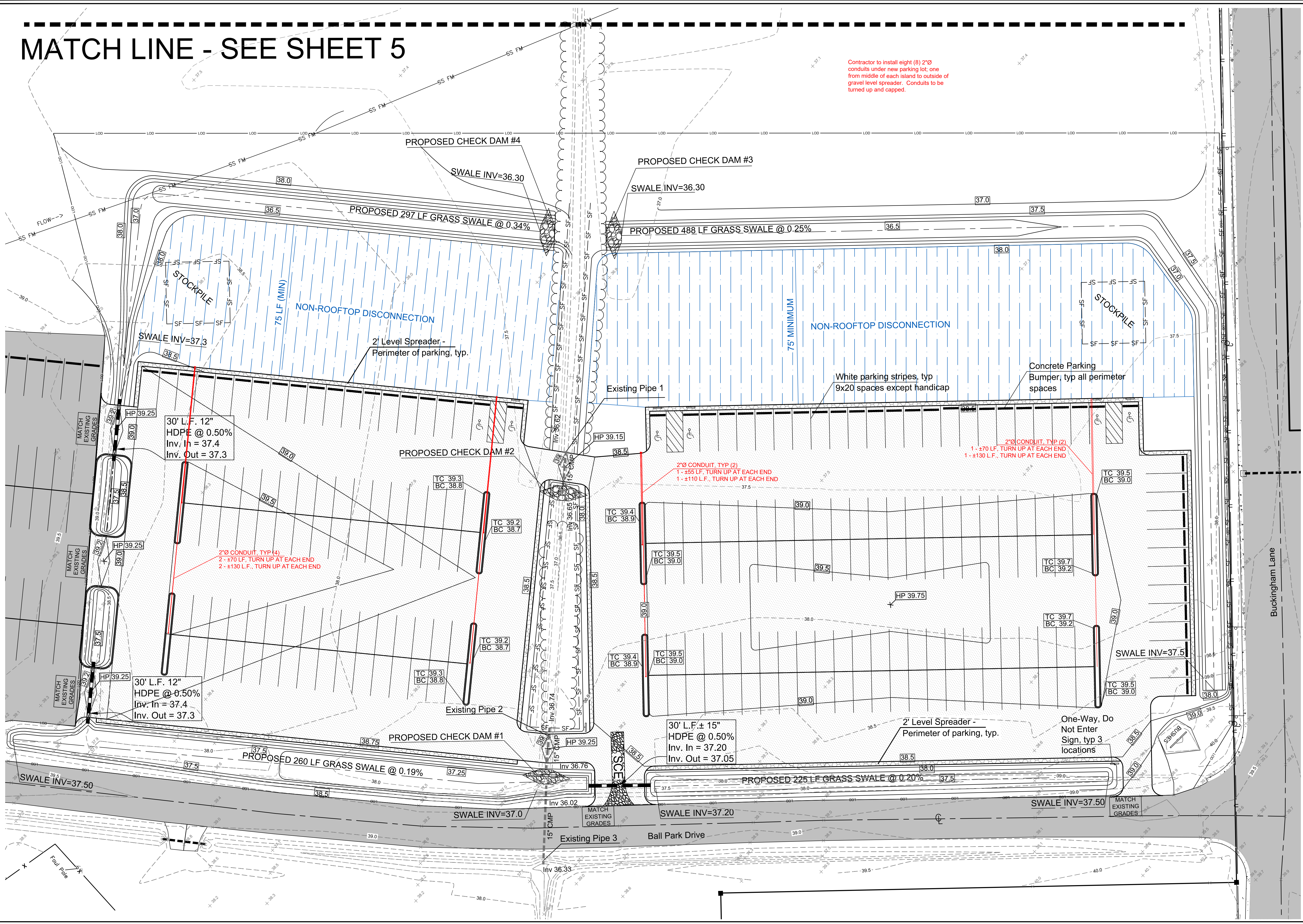
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LICENSE NO.: MD 22788
EXPIRATION DATE: AUGUST 10, 2022

STORMWATER PLAN

DRAWN BY: j.s.h.	DATE: 08/04/2023
JOB NUMBER: 2020-110	C3
SCALE: 1"=40'	

MATCH LINE - SEE SHEET 5



J. STACEY HART & ASSOCIATES, INC.
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 CIVIL/MECHANICAL ENGINEERING

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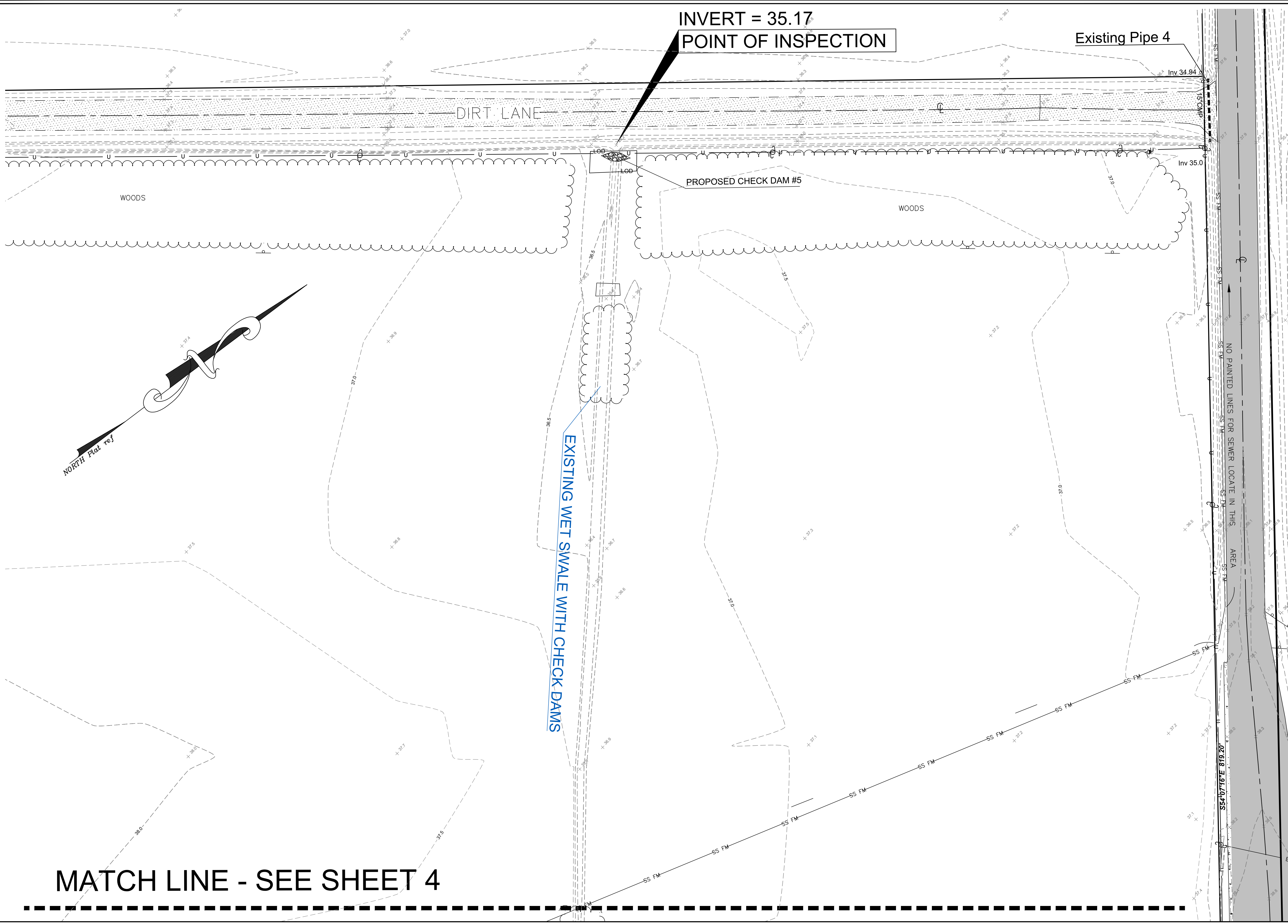
**PROPOSED PARKING LOT
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 ATHLETIC COMPLEX
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 WORCESTER COUNTY**

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LICENSE NO. MD 22788
 EXPIRATION DATE: AUGUST 10, 2022

GRADING PLAN

DRAWN BY: j.s.h.	DATE: 08/04/2023
JOB NUMBER: 2020-110	C4
SCALE: 1"=20'	



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LAND SURVEYING & ENGINEERING

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EMAIL: stacey@jstaceyhart.com

REVISIONS	
DATE	REVISED FOR:

**PROPOSED PARKING LOT
NORTHERN WORCESTER COUNTY
ATHLETIC COMPLEX**
9039 WORCESTER HIGHWAY
TOWN OF BERLIN
WORCESTER COUNTY

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THIS STATE.

LICENSE NO.: MD 22788
EXPIRATION DATE: AUGUST 10, 2022

GRADING PLAN

DRAWN BY: j.s.h.	DATE: 08/04/2023
JOB NUMBER: 2020-110	C5
SCALE: 1"=20'	

SEDIMENT AND EROSION CONTROL NOTES

- Prior to the start of work, the Contractor is to obtain County approval of any proposed plan changes and sequence of construction, specifically relating to installation, inspection, maintenance and removal of erosion and sediment control measures.
- Sediment control measures are not to be removed until the areas served have established vegetative cover, or with the permission of the Worcester or MDE Sediment Control Inspector.
- When pumping sediment laden water, the discharge must be directed to an approved sediment trapping measure prior to release from the site.
- All temporary stockpiles are to be located within areas protected by sediment control measures, and are to be temporally stabilized.
- All sediment control dikes, swales, basins and flow lines to basins will be temporarily secured immediately upon installation to reduce the contribution to sediment loading.
- Disposal of excess earth materials on State or Federal property requires MDE approval, otherwise materials are to be disposed of at a location approved by the local authority.
- Temporary soil erosion control and sediment control measures are to be provided as per the approved plan prior to grading operations. Location adjustments are to be made in the field as necessary. The minimum area practical shall be disturbed for the minimum possible time.
- If grading is completed out of a seeding season, graded areas are to be temporally stabilized by mulch and much anchoring. Mulch material shall be unwashed, unchopped small grain straw spread at the rate of 1 1/2 to 2 tons per acre. Much anchoring to be accomplished by an approved method, use of a mulch anchoring tool is recommended where possible.
- Implementation of the sediment control plan shall be in accordance with "2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control" of the Department.
- The Contractor is responsible for implementation and maintenance of the approved plan, and all other measures necessary to control, filter, or prevent sediment from leaving the site.
- In case where stormwater management structures as a part of site development, removal of sediment control structures may not be accomplished before the contributing drainage area to the stormwater management structure is stabilized. Also, proper dewatering of the sediment from the site.
- On sites where infiltration techniques are utilized for the control of stormwater, extreme care must be taken to prevent all runoff from entering the structure during construction.
- Sediment control for utility construction in areas outside of designed controls:
 - Excavated trench material shall be placed on the high side of the trench.
 - Immediately following pipe installation the trench shall be backfilled, compacted, and stabilized at the end of each working day.
 - Temporary silt fence, silt base dikes, or stone check dams shall be placed immediately downstream of any disturbed area intended to remain disturbed longer than one working day.
- All points of construction ingress and egress shall be protected to prevent tracking of mud onto public ways.
- Following initial soil disturbance or redistribution, permanent or temporary stabilized shall be completed within:
 - Three (3) calendar days as to the surface of all perimeter dikes, swales, ditches, perimeter slopes, and all slopes greater than 3 horizontal to 1 vertical (3:1); and
 - Seven (7) days as to all other disturbed or graded areas on the project site not under active grading. The requirements of Section G-20 (Vegetative Stabilization) do not apply to those areas which are shown on the plan and are currently being used for material storage or for those areas on which actual construction activities are currently being performed or to interior areas of a surface mine site where the stabilization material would contraindicate the reclamation resource. Maintenance shall be performed as necessary to ensure that the stabilized areas continuously meet the appropriate requirements of the "2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control".
- Stabilization of all disturbed areas are to meet the requirements of the "2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control" - Section G-20 Vegetative Stabilization".

TEMPORARY SEEDING SUMMARY

No.	Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depth	SEED MIXTURE (HARDNESS ZONE 7B) From Table B.1		FERTILIZER RATE (10-10-10)	LIME RATE
					N	P ₂ O ₅		
1	Annual Ryegrass	40	2/15 to 4/30 8/15 to 11/01	1/2"	600 lb/ac (15 lb/1000 sf)	2 tons/ac (100 lb/1000 sf)		

PERMANENT SEEDING SUMMARY

No.	Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depth	HARDNESS ZONE (from Figure B.3) 7B SEED MIXTURE (from Table B.3) 7B			FERTILIZER RATE (10-20-20)			LIME RATE
					N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	
1	Tall Fescue	40	3/01 to 5/15 8/15 to 10/15	1/2"	45 lb/ac (1.0 lb/1,000 sf)	90 lb/ac (2.0 lb/1,000 sf)	90 lb/ac (2.0 lb/1,000 sf)	2 tons/ac (90 lb/1,000 sf)	2 tons/ac (90 lb/1,000 sf)	2 tons/ac (90 lb/1,000 sf)	2 tons/ac (90 lb/1,000 sf)
	Perennial Ryegrass	25									
2	Switch Grass	10	3/01 to 5/15 8/15 to 10/15	1/2"	45 lb/ac (1.0 lb/1,000 sf)	90 lb/ac (2.0 lb/1,000 sf)	90 lb/ac (2.0 lb/1,000 sf)	2 tons/ac (90 lb/1,000 sf)	2 tons/ac (90 lb/1,000 sf)	2 tons/ac (90 lb/1,000 sf)	2 tons/ac (90 lb/1,000 sf)
	Creeping Red Fescue	15									
3	Hard Fescue	20	3/01 to 5/15 8/15 to 10/15	1/2"	45 lb/ac (1.0 lb/1,000 sf)	90 lb/ac (2.0 lb/1,000 sf)	90 lb/ac (2.0 lb/1,000 sf)	2 tons/ac (90 lb/1,000 sf)	2 tons/ac (90 lb/1,000 sf)	2 tons/ac (90 lb/1,000 sf)	2 tons/ac (90 lb/1,000 sf)
	Perennial Ryegrass	10									
	Flintpea	15									

* The fertilizer and lime rates listed above are meant for a one time application, at the time of seeding.

- The inspection agency shall be notified upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may be authorized until this initial approval by the inspection agency is made, and approval shall be requested upon final stabilization.
- At a minimum as each lot is developed sediment and erosion control will include but not limited to a construction entrance, silt fence as needed and protection of the nearest storm drain inlet.
- Lots developed by individuals and/or developers other than those certifying this plan will require that the new owner will be responsible for securing appropriate sediment erosion control approval. At a minimum, the new owner/developer will need to include a construction entrance, silt fence as needed and protection of the closest storm drain inlet in an approved sediment erosion control plan.
- Approved plans remain valid for 2 years from the date of approval, with the exception of surface mine and landfill plans which remain valid for 5 years from the date of approval, unless specifically extended or renewed by the approval authority.
- The Maryland Department of Environment Notice of Intent (NOI) General Permit for Construction Activity is required for all construction activity in Maryland with a planned disturbance of 1 acre or more.
- As mandated by the Notice of Intent (NOI) general permit issued by the Maryland Department of the Environment (MDE), an inspection must be performed onsite of all sediment controls on a weekly basis and after every rainfall event. All self-inspections must be maintained along with all applicable governing agency inspection reports in a log book, to be kept onsite at all times.

OWNERS CERTIFICATION

I, THE UNDERSIGNED CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION, OR DEVELOPMENT, OR ALL OF THESE, WILL BE DONE PURSUANT TO THIS PLAN AND THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND FURTHER AUTHORIZE THE RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT OR THEIR AUTHORIZED AGENTS. RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATION AT A DEPARTMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION.

AUTHORIZED REPRESENTATIVE (SIGNATURE) _____ DATE _____

PRINTED NAME _____

PHONE NUMBER _____

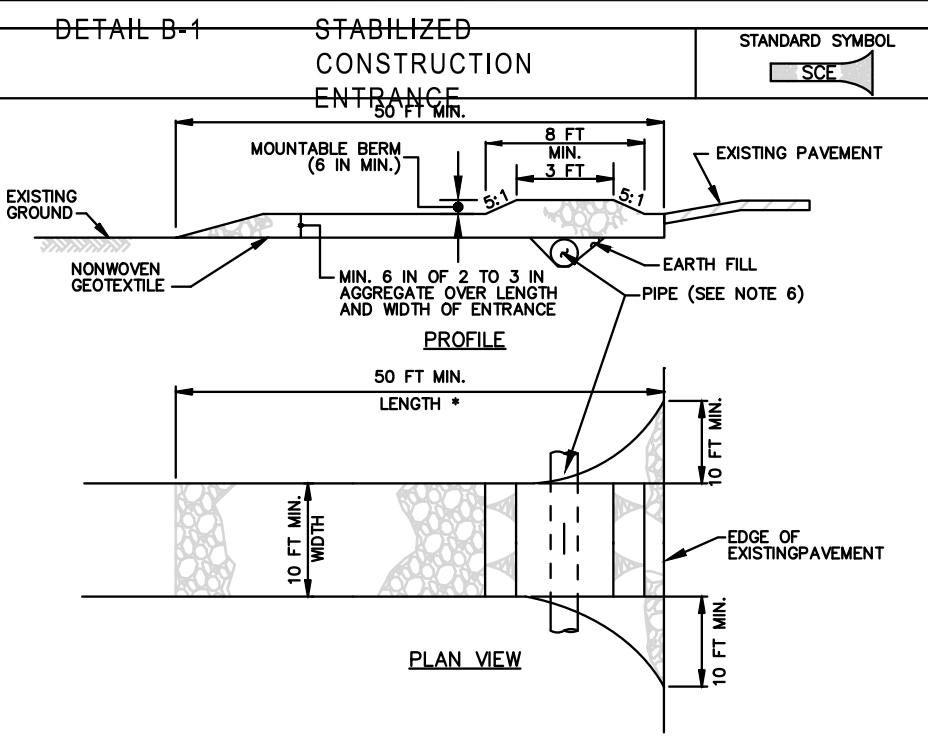
DEVELOPERS CERTIFICATION

- All phases of stormwater management calculations, structure design and construction will adhere to current Maryland standards and specifications for stormwater management and the stormwater management plan for this site.
- All information set forth in this plan accurately conveys this site's conditions to the best of my knowledge.
- All structural devices for stormwater management will be protected by proper soil erosion and sediment control devices until all contributing areas have passed final stabilization inspection.
- UPON COMPLETION OF THE PROJECT, AN AS-CONSTRUCTED SURVEY, NOTICE OF CONSTRUCTION COMPLETION (NOCC), AND LETTER OF CERTIFICATION MUST BE SUBMITTED TO THE DEPARTMENT, EXCEPT INDIVIDUAL SINGLE FAMILY DWELLINGS. ONCE REVIEW IS COMPLETE AND APPROVED, A CERTIFICATE OF OCCUPANCY CAN BE ISSUED.

AUTHORIZED REPRESENTATIVE (SIGNATURE) _____ DATE _____

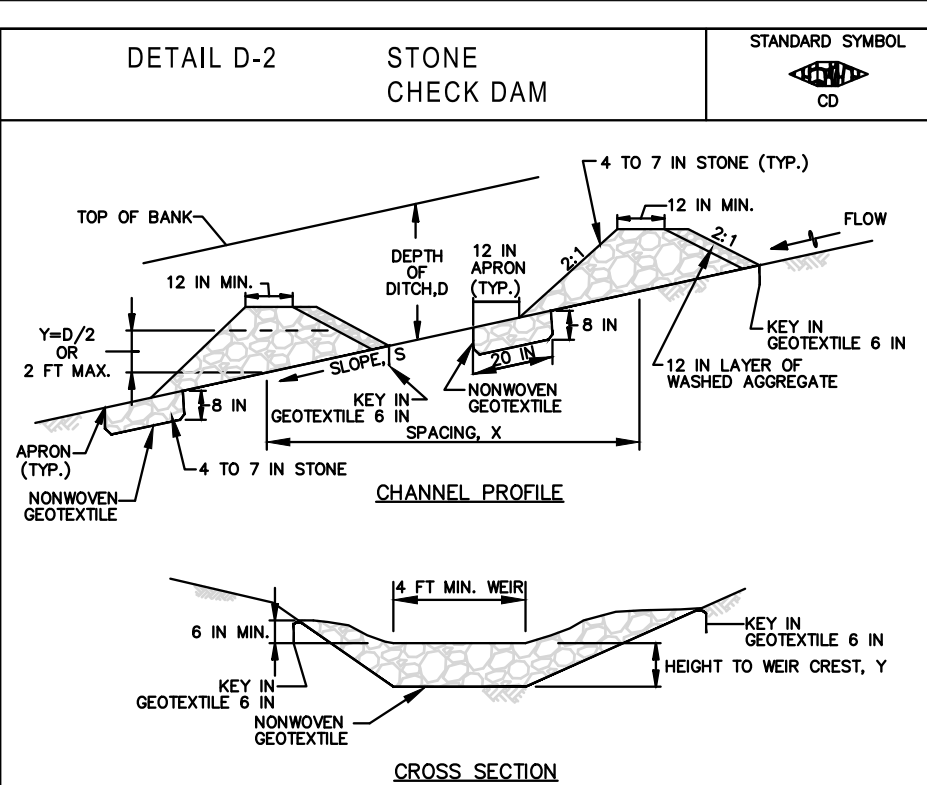
PRINTED NAME _____

PHONE NUMBER _____



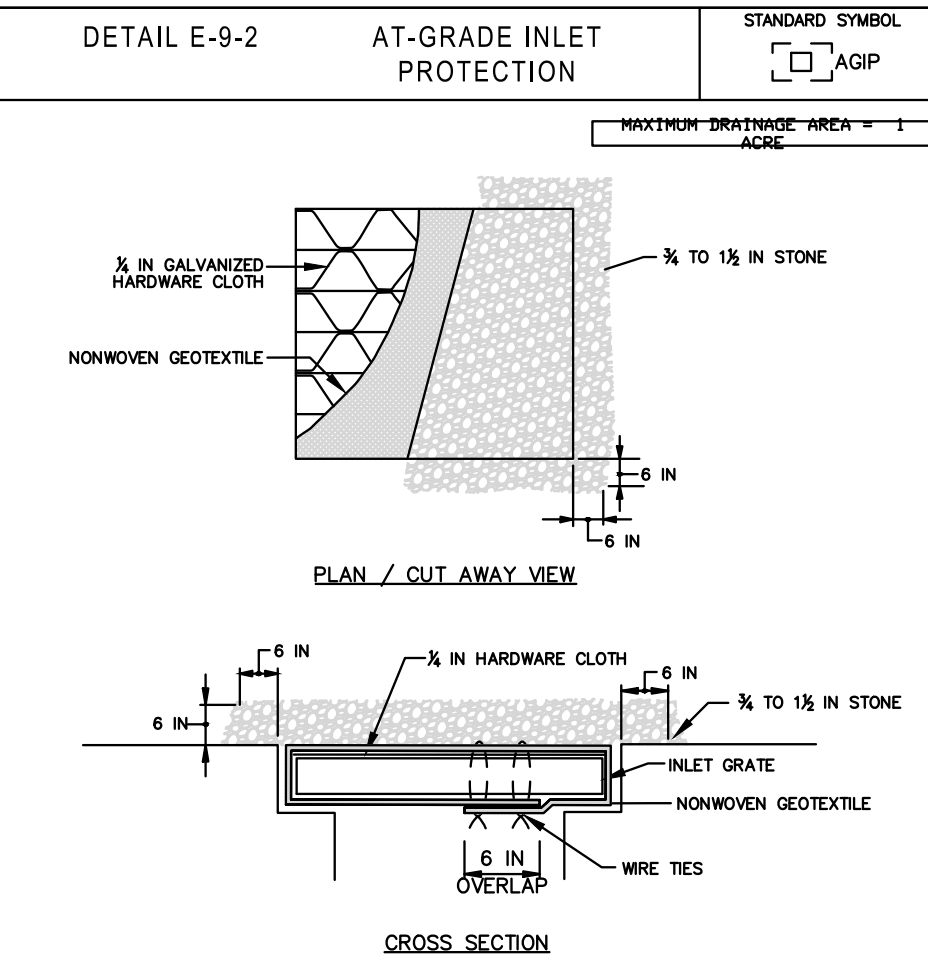
- ### CONSTRUCTION SPECIFICATIONS
- PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SIZE. USE MINIMUM LENGTH OF 50 FEET (40 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SIZE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
 - PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE ENTRANCE UNDER THE ENTRANCE. MAINTAIN POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SIZE WITH A MOUNTABLE BEAM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF COVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN, WHEN THE SIZE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BEAM IS REQUIRED WHEN SIZE IS NOT LOCATED AT A HIGH SPOT.
 - PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
 - PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SIZE.
 - MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT AND STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAR SURFACE, MOUNTABLE BEAM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

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



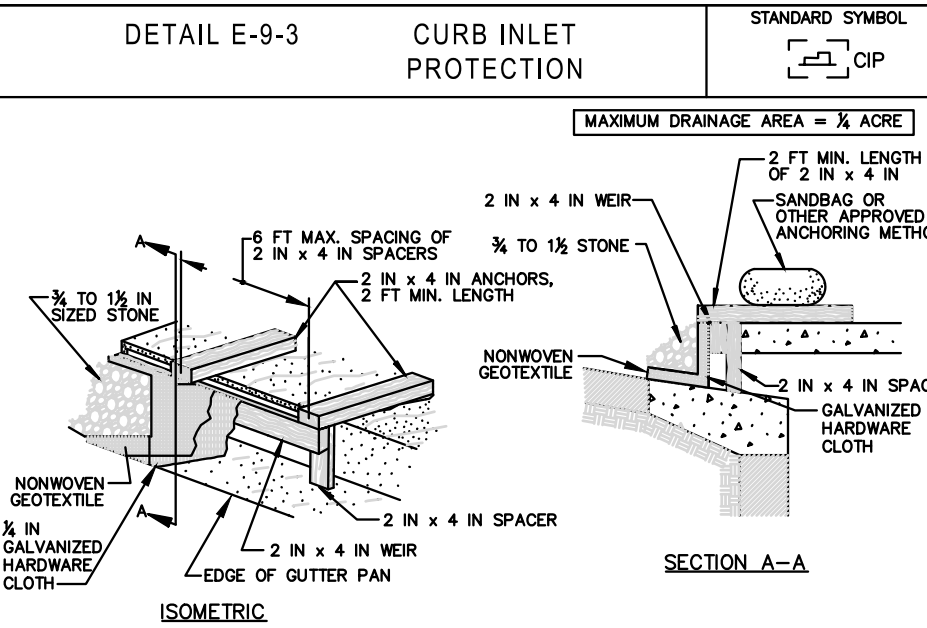
- ### CONSTRUCTION SPECIFICATIONS
- PREPARE SWALES IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS DESCRIBED IN SECTION C-2, STANDARDS AND SPECIFICATIONS FOR TEMPORARY SWALE, OR AS SPECIFIED ON PLAN.
 - PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS, UNDER THE BOTTOM AND SIDES OF THE DAM PRIOR TO PLACEMENT OF STONE. CONSTRUCT THE CHECK DAM WITH WASHED 4 TO 7 INCH STONE OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) WITH SIDE SLOPES OF 2:1 OR FLATTER AND A MINIMUM TOP WIDTH OF 12 INCHES. PLACE THE STONE SO THAT IT COMPLETELY COVERS THE WIDTH OF THE CHANNEL AND CHANNEL BANKS, FROM THE WEIR SO THAT TOP OF THE OUTLET CREST IS APPROXIMATELY 6 INCHES LOWER THAN THE OUTER EDGES. LINE THE UPSTREAM FACE OF THE DAM WITH A 1 FOOT THICK LAYER OF WASHED AGGREGATE (3/4 TO 1 1/2 INCH).
 - SET THE HEIGHT FOR THE WEIR CREST EQUAL TO ONE-HALF THE DEPTH OF THE CHANNEL OR DITCH. TO AVOID SCOUR, THE MAXIMUM HEIGHT OF THE WEIR CREST MUST NOT EXCEED 2.0 FEET.
 - REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES ONE-HALF THE HEIGHT OF THE WEIR CREST. MAINTAIN LINE, GRADE, AND CROSS SECTION.

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



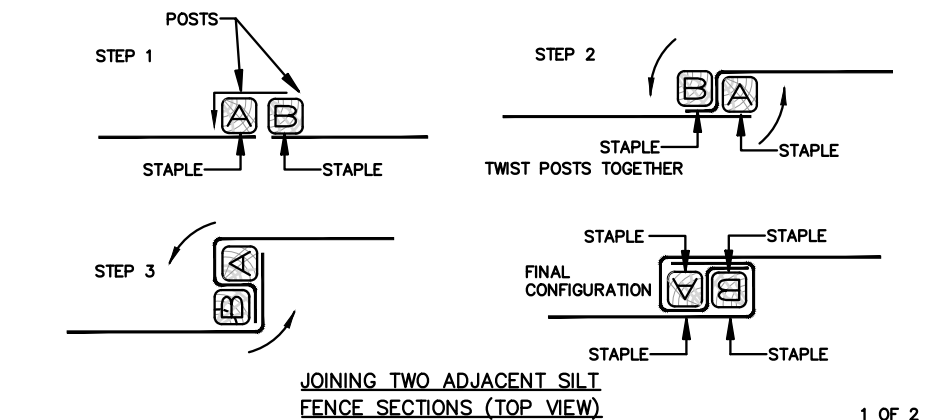
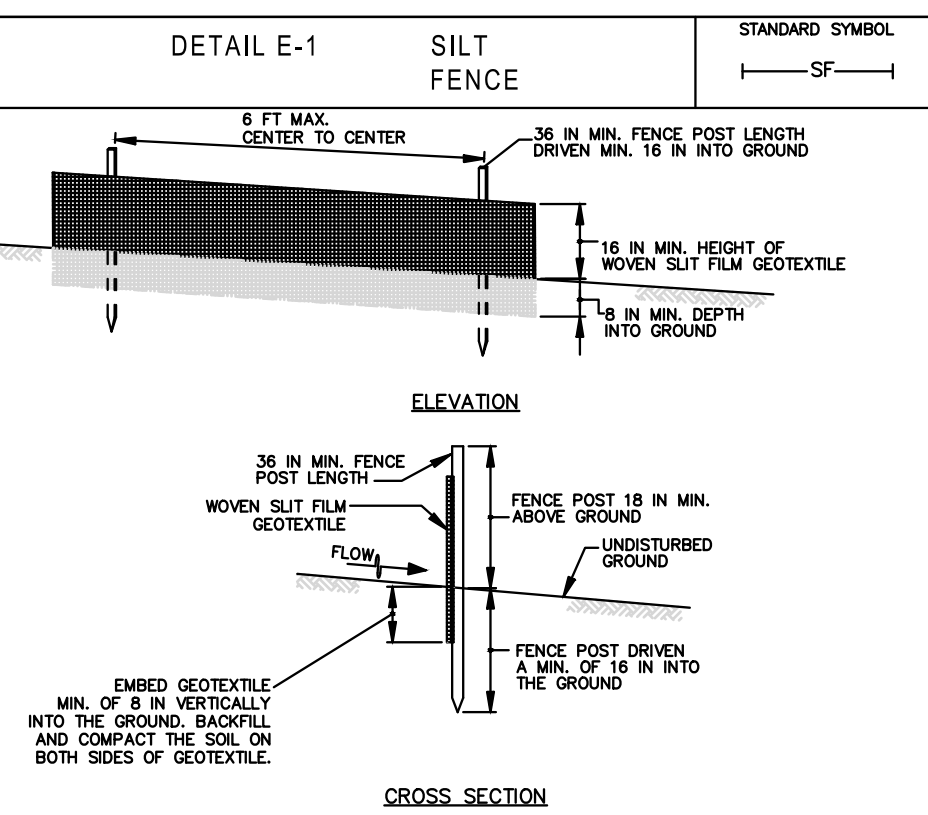
- ### CONSTRUCTION SPECIFICATIONS
- USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS.
 - LET GRATE AND WRAP WITH NONWOVEN GEOTEXTILE TO COMPLETELY COVER ALL OPENINGS. SECURE WITH WIRE TIES AND SET GRATE BACK IN PLACE.
 - PLACE CLEAN 3/4 TO 1 1/2 INCH STONE OR EQUIVALENT RECYCLED CONCRETE 6 INCHES THICK ON THE GRATE.
 - 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		
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- ### CONSTRUCTION SPECIFICATIONS
- USE NOMINAL 2 INCH X 4 INCH LUMBER
 - USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS.
 - NAIL THE 2x4 WEIR TO 9 INCH LONG VERTICAL SPACERS (MAXIMUM 6 FEET APART).
 - ATTACH A CONTINUOUS PIECE OF 3/8 INCH GALVANIZED HARDWARE CLOTH WITH A MINIMUM WIDTH OF 30 INCHES AND A MINIMUM LENGTH OF 4 FEET LONGER THAN THE THROAT OPENING, TO THE 2x4 WEIR, EXTENDING 1/2 FEET BEYOND THROAT ON EACH SIDE.
 - PLACE A CONTINUOUS PIECE OF NONWOVEN GEOTEXTILE OF THE SAME DIMENSIONS AS THE HARDWARE CLOTH OVER THE HARDWARE CLOTH AND SECURELY ATTACH TO THE 2x4 WEIR.
 - PLACE THE ASSEMBLY AGAINST THE INLET THROAT AND NAIL TO 2x4 ANCHORS (MINIMUM 2 FEET LENGTH). EXTEND THE ANCHORS ACROSS THE INLET TOP AND HOLD IN PLACE BY SANDBAGS OR OTHER APPROVED ANCHORING METHOD.
 - INSTALL END SPACERS A MINIMUM OF 1 FOOT BEYOND THE ENDS OF THE THROAT OPENING.
 - FORM THE HARDWARE CLOTH AND THE GEOTEXTILE TO THE CONCRETE GUTTER AND FACE OF CURB TO SPAN THE INLET OPENING. COVER THE HARDWARE CLOTH AND GEOTEXTILE WITH CLEAN 3/4 TO 1 1/2 INCH STONE OR EQUIVALENT RECYCLED CONCRETE.
 - AT NON-SUMP LOCATIONS, INSTALL A TEMPORARY SANDBAG OR ASPHALT BEAM TO PREVENT INLET BYPASS.
 - 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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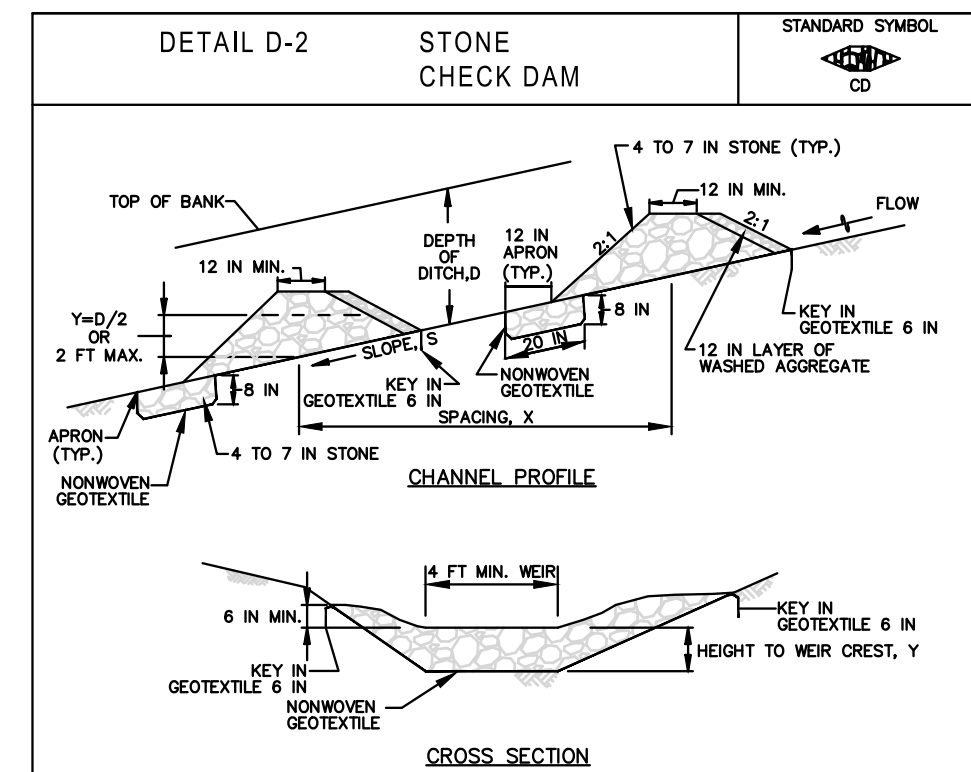


MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL		
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- ### CONSTRUCTION SPECIFICATIONS
- USE WOOD POSTS 1 1/2 X 1 1/2 X 3/8 INCH (MINIMUM) SQUARE CUT OF SOUND QUALITY HARDWOOD, OR AN ALTERNATIVE TO WOODEN POST USE STANDARD "T" OR "V" SECTION STEEL POSTS WEIGHING NOT LESS THAN 1 POUND PER LINEAR FOOT.
 - USE 36 INCH MINIMUM POSTS DRIVEN 18 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART.
 - USE WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS AND FASTEN GEOTEXTILE SECURELY TO UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTION.
 - PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
 - EMBED GEOTEXTILE A MINIMUM OF 8 INCHES VERTICALLY INTO THE GROUND, BACKFILL AND COMPACT THE SOIL ON BOTH SIDES OF FABRIC.
 - WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, TWIST, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL.
 - EXTEND BOTH ENDS OF THE 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 SILT FENCE.
 - REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN IF UNDERMINING OCCURS, RESTAUR FENCE.

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CHECK DAM #	WEIR INVERT
1	37.50
2	37.75
3	37.00
4	37.00
5	36.00



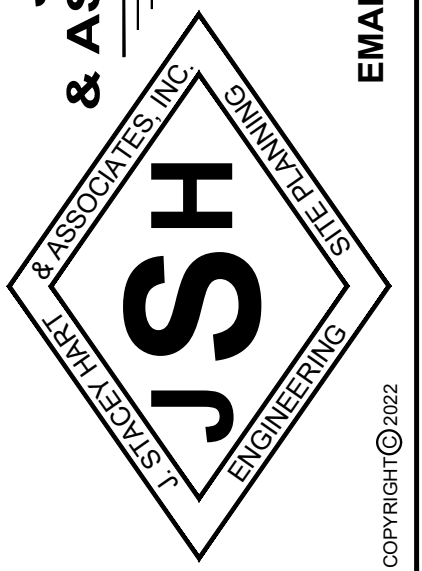
- ### CONSTRUCTION SPECIFICATIONS
- PREPARE SWALES IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS DESCRIBED IN SECTION C-2, STANDARDS AND SPECIFICATIONS FOR TEMPORARY SWALE, OR AS SPECIFIED ON PLAN.
 - PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS, UNDER THE BOTTOM AND SIDES OF THE DAM PRIOR TO PLACEMENT OF STONE. CONSTRUCT THE CHECK DAM WITH WASHED 4 TO 7 INCH STONE OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) WITH SIDE SLOPES OF 2:1 OR FLATTER AND A MINIMUM TOP WIDTH OF 12 INCHES. PLACE THE STONE SO THAT IT COMPLETELY COVERS THE WIDTH OF THE CHANNEL AND CHANNEL BANKS, FROM THE WEIR SO THAT TOP OF THE OUTLET CREST IS APPROXIMATELY 6 INCHES LOWER THAN THE OUTER EDGES. LINE THE UPSTREAM FACE OF THE DAM WITH A 1 FOOT THICK LAYER OF WASHED AGGREGATE (3/4 TO 1 1/2 INCH).
 - SET THE HEIGHT FOR THE WEIR CREST EQUAL TO ONE-HALF THE DEPTH OF THE CHANNEL OR DITCH. TO AVOID SCOUR, THE MAXIMUM HEIGHT OF THE WEIR CREST MUST NOT EXCEED 2.0 FEET.
 - REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES ONE-HALF THE HEIGHT OF THE WEIR CREST. MAINTAIN LINE, GRADE, AND CROSS SECTION.

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SEQUENCE OF CONSTRUCTION:

- CONTACT THE WORCESTER COUNTY DEPARTMENT OF ENVIRONMENTAL PROGRAMS AT 410-632-1220 TO SCHEDULE A PRE-CONSTRUCTION MEETING AT LEAST 48 HOURS PRIOR TO COMMENCING ANY SITE WORK. FAILURE TO DO SO MAY RESULT IN AN IMMEDIATE "STOP WORK ORDER".
- INSTALL STABILIZED CONSTRUCTION.
- PERFORM CLEARING AND GRUBBING TO INSTALL PERIMETER CONTROLS.
- INSTALL PERIMETER CONTROLS (SILT FENCE) AND STONE CHECK DAM #5.
- PERFORM REMAINING CLEARING, GRUBBING AND SITE GRADING OF PARKING LOT INSIDE LIMITS OF DISTURBANCE. CONSTRUCT PROPOSED GRASS SWALES AND CHECK DAMS #1, 2, 3 & 4.
- PERFORM FINAL GRADING AND PAVING OPERATIONS AND STRIPING.
- CLEAN SWALE AND CHECK DAMS OF ANY SEDIMENT AND STABILIZE AND SEED ALL AREAS. CHECK DAMS TO REMAIN AFTER CONSTRUCTION.
- REMOVAL OF CONTROLS AND STABILIZATION OF AREAS DISTURBED BY THEIR REMOVAL.

J. STACEY HART & ASSOCIATES, INC.



POST OFFICE BOX 6
SNOW HILL, MD 21863
PHONE: 410-390-8096
FAX: 877-646-4365
EMAIL: stacey@jstaceyhart.com

REVISIONS

DATE REVISED FOR:

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PROPOSED PARKING LOT
NORTHERN WORCESTER COUNTY
ATHLETIC COMPLEX
9039 WORCESTER HIGHWAY
TOWN OF BERLIN
WORCESTER COUNTY

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THIS STATE.

LICENSE NO. MD 22788

EXPIRATION DATE: AUGUST 10, 2022

EROSION & SEDIMENT CONTROL NOTES

DRAWN BY: j.s.h. DATE: 08/04/2023

JOB NUMBER: 2020-110

SCALE: C6
NONE