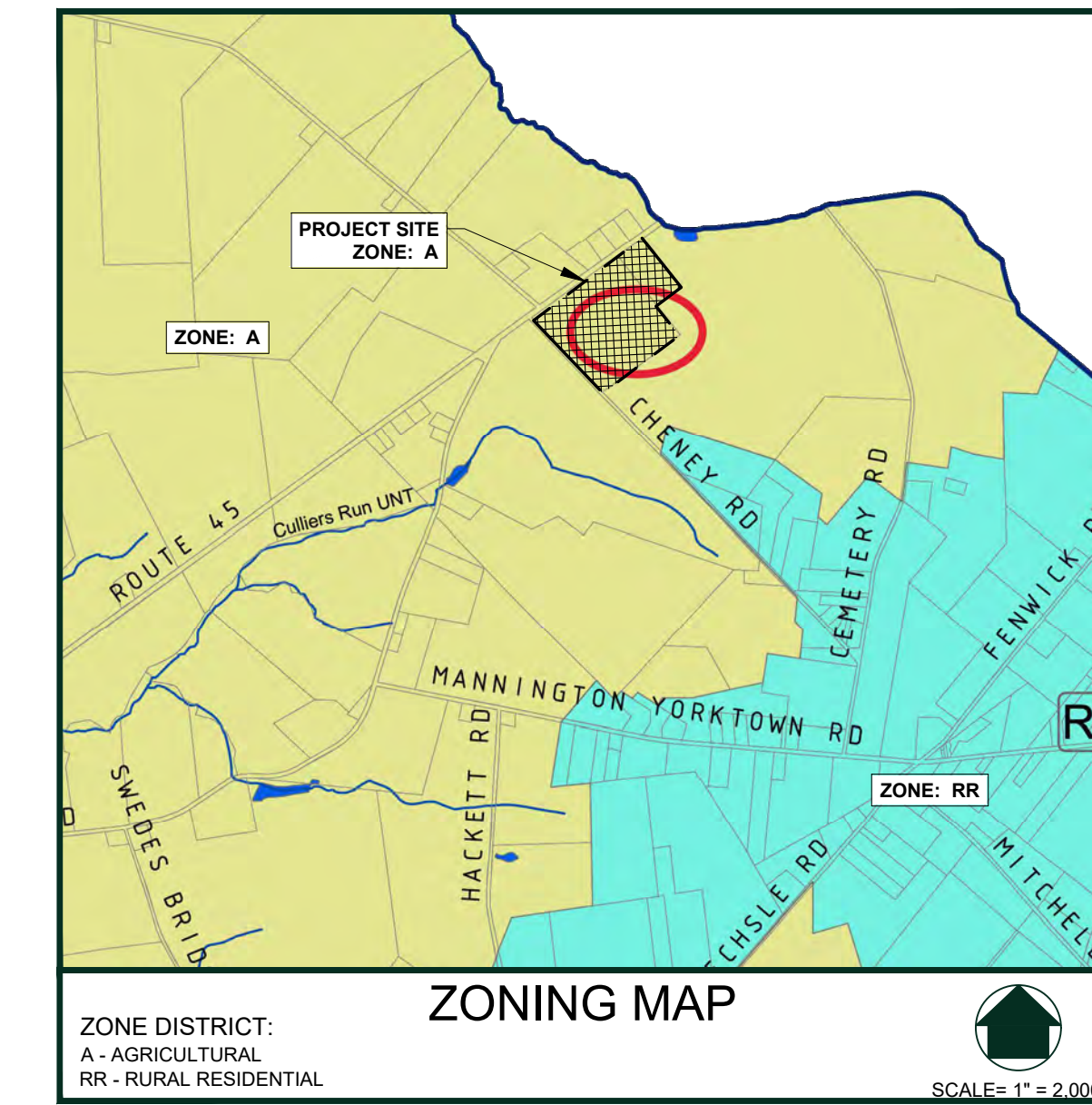
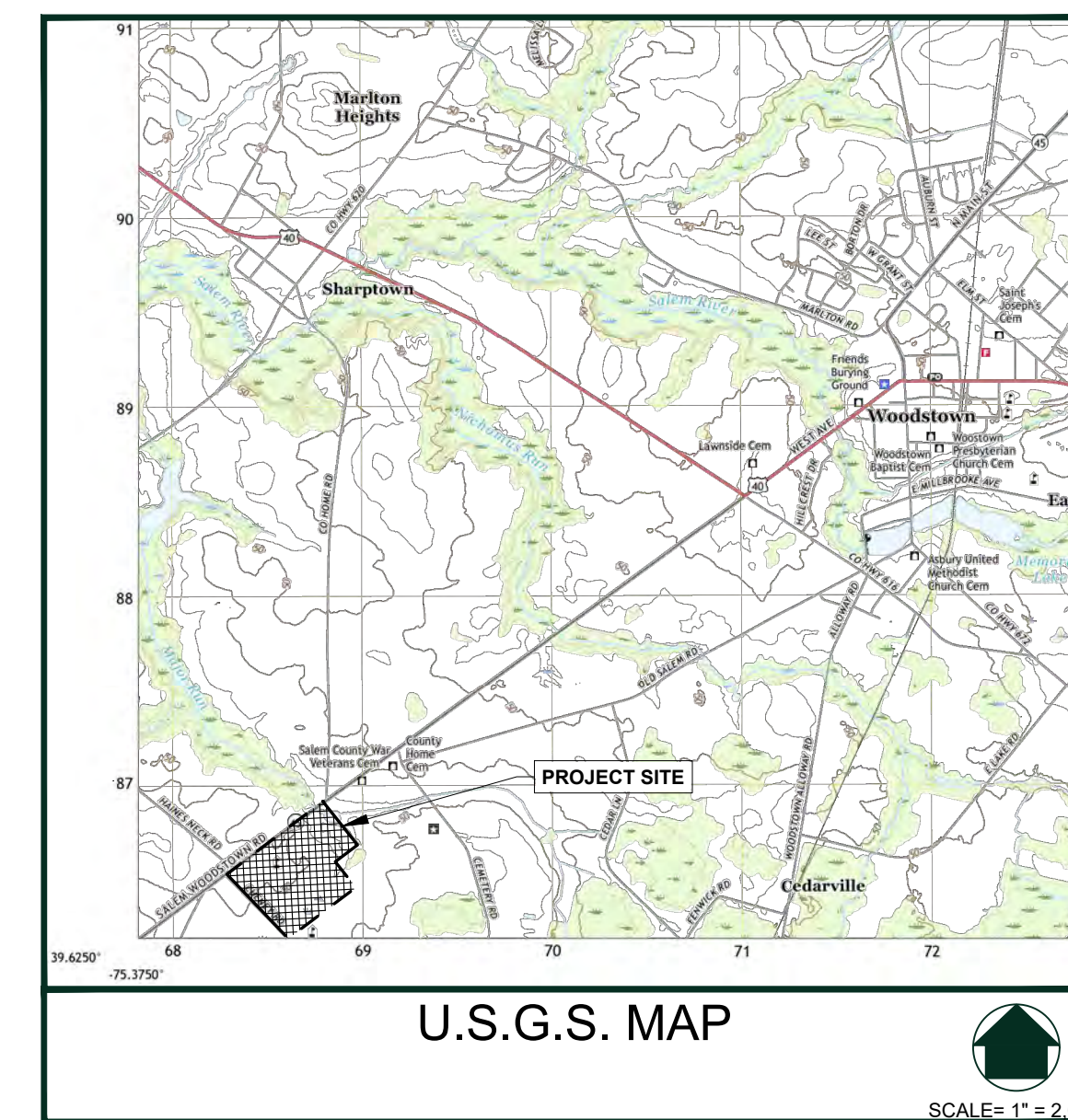
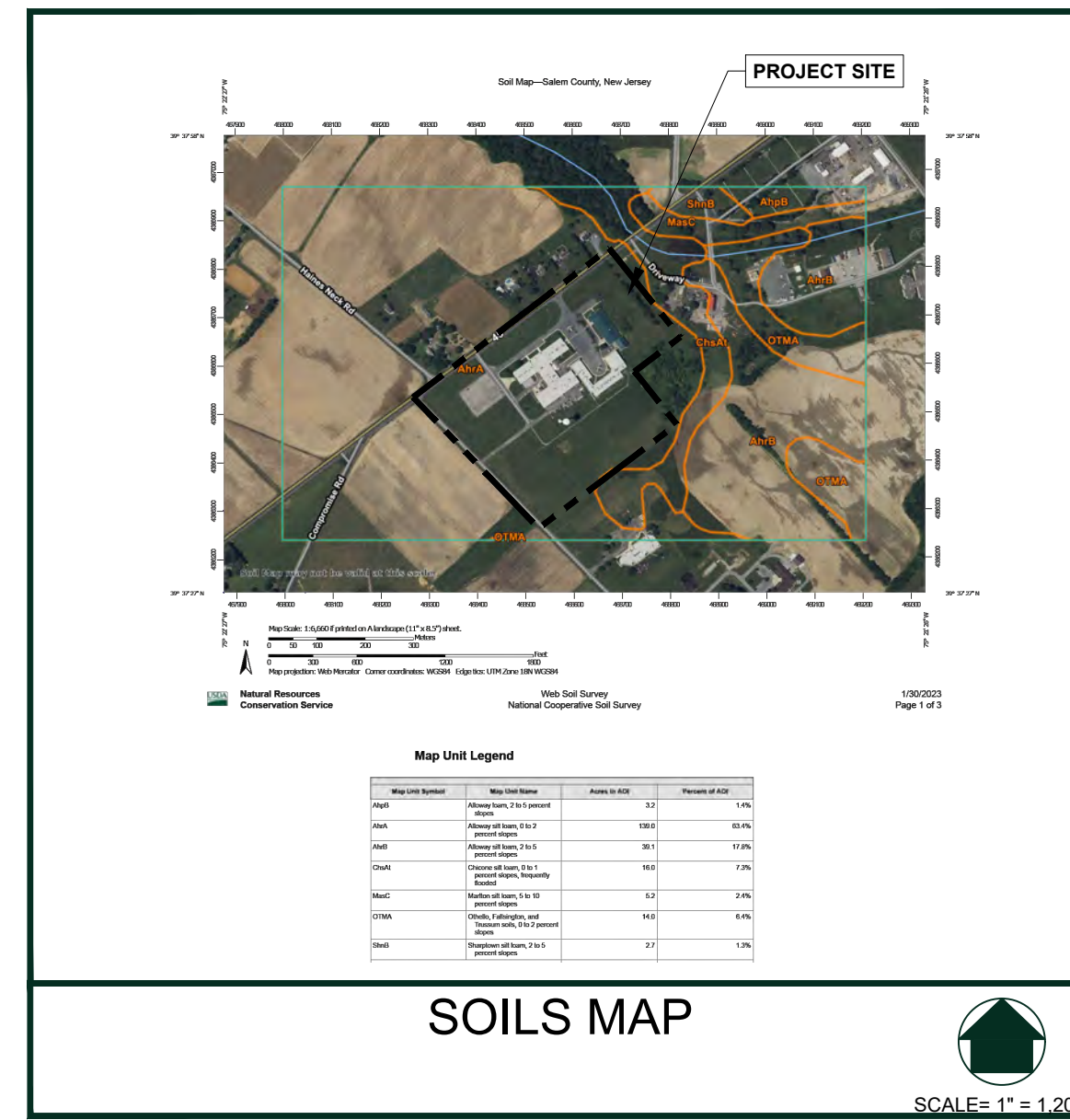
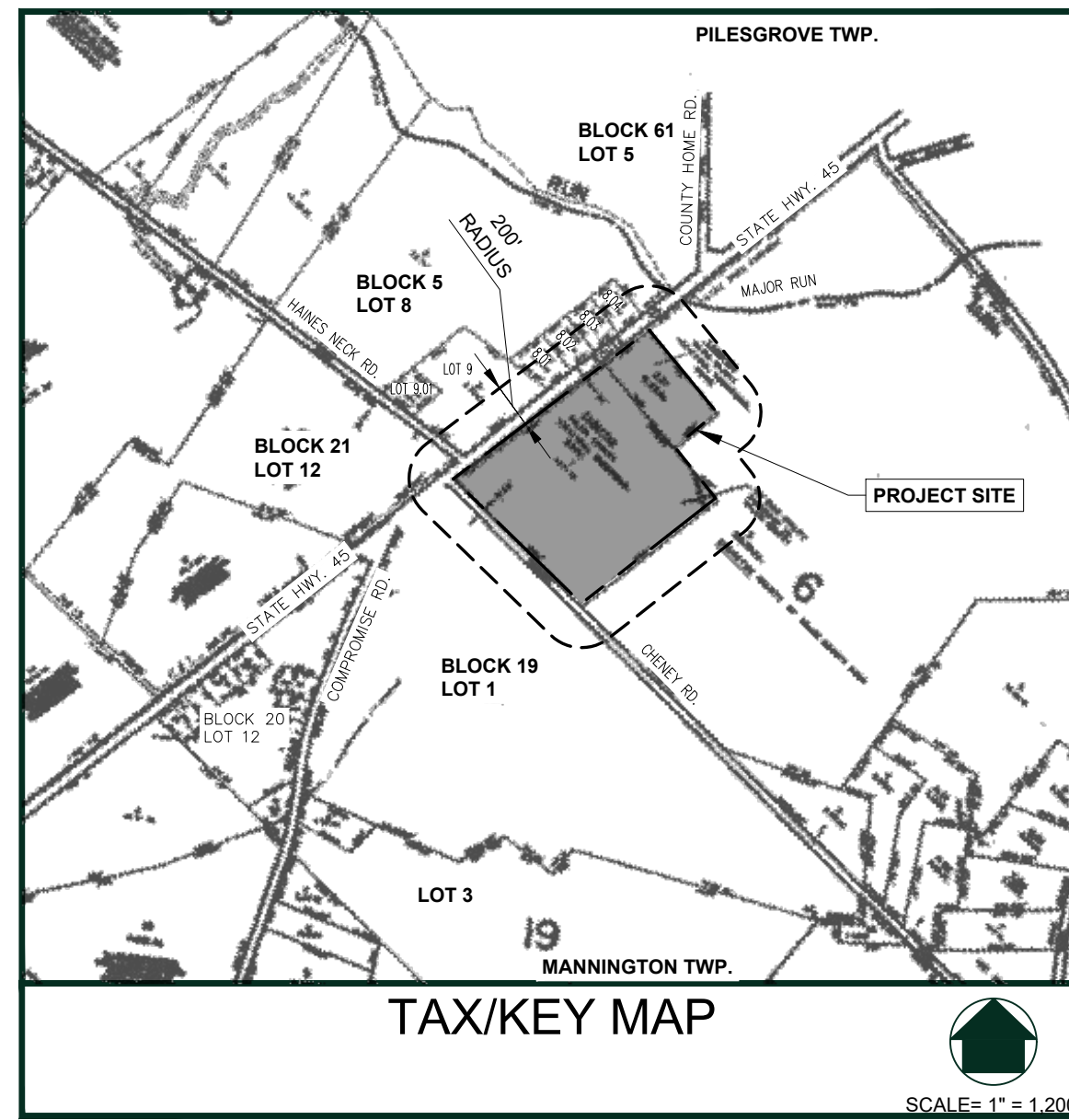


# WELDING ROOM ADDITION AND REPAVING & RESURFACING PLANS SALEM COUNTY CAREER & TECHNICAL HIGH SCHOOL BLOCK 6, LOTS 1 & 2.01

MANNINGTON TOWNSHIP, SALEM COUNTY, NEW JERSEY  
NOVEMBER 03, 2023



**GENERAL NOTES:**

OWNER/APPLICANT: SALEM COUNTY BOARD FOR VOCATIONAL EDUCATION  
880 ROUTE 45  
WOODSTOWN, NJ, 08098  
CONTACT: DR. JENNIFER BATES

- THE SUBJECT PROPERTY IS KNOWN AS BLOCK 6, LOTS 1 & 2.01 IN THE TOWNSHIP OF MANNINGTON, SALEM COUNTY, NEW JERSEY.
- TOPOGRAPHIC INFORMATION SHOWN HEREIN WAS COLLECTED IN FIELD BY ARH ASSOCIATES, IN MARCH 2023, AND SUPPLEMENTAL GIS BOUNDARY INFORMATION WAS TAKEN FROM NJGEOWEB.
- FOR REPAVING AND RESURFACING OF AREAS OUTSIDE THIS SET OF PLANS SCOPE OF WORK REFER TO PLAN SET TITLED "REPAVING AND RESURFACING PLANS, SALEM COUNTY CAREER & TECHNICAL HIGH SCHOOL", PREPARED BY ARH ASSOCIATES, DATED JUNE 28, 2023.
- THE SALEM COUNTY BOARD FOR VOCATIONAL EDUCATION PROPOSES TO CONSTRUCT A +/- 1,508 SF WELDING BUILDING ADDITION AT THE REAR OF THE SCHOOL. ALSO INCLUDED IN THE SCOPE OF WORK: EXPANSION OF AND REPAVING/RESURFACING OF PARKING LOT NEAR THE BUILDING ADDITION, A 7.5 FT X 20 FT REINFORCED CONCRETE APRON AT THE AUTO SHOP OVERHEAD DOORS, CONCRETE APRONS AT THE BUILDING ADDITION DOOR OPENINGS, RESTRIPIING AND RELATED RESTORATION INSIDE THE WELDING AREA COMPOUND FENCED AREA. ALTERNATE BID ITEMS INCLUDE: RESURFACING OF THE SERVICE ROAD FROM THE WELDING COMPOUND PARKING AREA TO CHENEY ROAD, INCLUDING REPLACEMENT OF SPEED HUMPS, INSTALLATION OF SIGNS, AND ALL WORK ASSOCIATED WITH THE SERVICE ROAD RESTORATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY TRAFFIC CONTROL AND SHALL OBTAIN THE APPROVAL OF THE SCHOOL REGARDING CLOSURES AND TRAFFIC PATTERN CHANGES. SAFETY OF THE STUDENTS AND STAFF IS OF THE UTMOST IMPORTANCE, AND ALL AREAS SHALL BE PROPERLY CORDONED OFF FROM ANY PEDESTRIAN OR VEHICLE TRAFFIC THROUGH CONSTRUCTION AREAS.
- IT IS NOT ANTICIPATED THAT THERE WILL BE ANY CONCRETE CURB, CONCRETE SIDEWALK, OR ADA RAMP INSTALLATION OR REPLACEMENT.
- THE LOCATION OF EXISTING UTILITIES SHOWN ON THE CONTRACT DRAWINGS ARE APPROXIMATE BASED UPON VISIBLE FEATURES, DRAWINGS WHICH ARE A MATTER OF PUBLIC RECORD, AND UTILITY COMPANY MARK-UP PLANS. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE NEW JERSEY STATE ONE CALL SYSTEM (811) OR (1-800-272-1000) TO OBTAIN AND VERIFY THE LOCATION OF EXISTING PUBLIC UTILITIES PRIOR TO CONSTRUCTION; SEPARATE PAYMENT SHALL NOT BE MADE FOR ANY TEST PITS OR OTHER SUBSURFACE INVESTIGATIONS REQUIRED TO CONFIRM THE LOCATION, DEPTH OR SIZE OF THE EXISTING UTILITIES OR SERVICE CONNECTIONS.
- ANY EXISTING PROPERTY LINE MARKERS THAT ARE ENCOUNTERED DURING CONSTRUCTION ARE TO BE PRESERVED BY THE CONTRACTOR. ANY PROPERTY MARKERS DISPLACED OR OTHERWISE DISTURBED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE RESET AT THE SOLE EXPENSE OF THE CONTRACTOR. ANY PROPERTY MARKER RESETTING SHALL BE PERFORMED BY A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF NEW JERSEY.
- THE CONTRACTOR IS RESPONSIBLE FOR RESTORING THE SITE TO A CLEAN, SAFE AND PASSABLE CONDITION AT THE END OF EACH WORK DAY. NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE FOR THE SAME. NO MATERIALS OR EQUIPMENT SHALL BE STAGED IN THE WORK ZONE OVERNIGHT UNLESS SPECIFICALLY PERMITTED BY THE OWNER. A STAGING AREA MAY BE PROVIDED AT THE DISCRETION OF THE OWNER, THE LOCATION OF WHICH SHALL BE IDENTIFIED AT THE PRE-CONSTRUCTION CONFERENCE.
- ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY, INCLUDING BUT NOT LIMITED TO, ADHERING TO ALL SOIL EROSION AND SEDIMENT CONTROL NOTES AND DETAILS.
- CONTRACTOR SHALL NOTIFY LOCAL POLICE, RESCUE, SCHOOL TRANSPORT, AND FIRE DEPARTMENTS RELATING TO THE RECONSTRUCTION WORK FOR ALL LOCATIONS. THE CONTRACTOR SHALL ALSO PLACE ALL APPROPRIATE SAFETY AND CONSTRUCTION SIGNS, BARRICADES, ETC. AS REQUIRED TO ALLOW FOR THE SAFE AND ORDERLY DISTRIBUTION OF TRAFFIC.
- CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO UTILITIES AS A RESULT OF CONSTRUCTION ACTIVITIES AT NO ADDITIONAL COST TO THE SCHOOL.
- ANY DAMAGE TO CURBS, SIDEWALKS, GRASS, ETC. MUST BE RETURNED TO "LIKE NEW" CONDITIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAKE OUT.
- CONTRACTOR SHALL NOTIFY ALL UTILITIES FOR LOCATIONS OF ALL UNDERGROUND PIPES, CONDUITS, ETC. PRIOR TO START OF ALL WORK.
- CONTRACTOR SHALL MATCH ALL EXISTING SURFACES FLUSH TO ASSURE A SMOOTH TRANSITION.
- ALL AREAS TO BE PAVED SHALL BE THOROUGHLY ROLLED AND COMPACTED PRIOR TO INSTALLATION OF PAVING.
- SPECIAL ATTENTION SHALL BE GIVEN TO ALL INTERSECTIONS TO ASSURE NO WATER (DRAINAGE) IS TRAPPED AT THE INTERSECTIONS.
- ALL VERTICAL SURFACES ADJACENT TO NEW PAVING (CURBS, GUTTERS, CASTINGS, ETC.) SHALL BE TACK COATED PRIOR TO PAVING.
- THE ENGINEER RESERVES THE RIGHT TO ADJUST FINAL GRADES PRIOR TO START OF PROJECT.
- THE CONTRACTOR MUST ABIDE BY THE REQUIREMENTS SET FORTH IN THE STANDARD STATE CONSTRUCTION SPECIFICATION DATED 2019 AS AMENDED.
- ALL FILL SHALL BE PLACED IN 6" LIFTS AND THOROUGHLY COMPACTED TO THE SATISFACTION OF THE ENGINEER. IF BORROW FILL IS REQUIRED, IT SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS WORK AND THAT OF ALL OTHER CONTRACTORS ON THE PROJECT. ANY COSTS RELATED TO HIS COORDINATION SHALL BE INCLUDED IN THE VARIOUS PAY ITEMS OF THE PROPOSAL.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL CONSTRUCTION PERMITS RELATED OR NECESSARY TO COMPLETE THE WORK FOR THE PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL WORK COMPLIES WITH FEDERAL, STATE AND LOCAL LAWS, ORDINANCES, REGULATIONS, BUILDING CODES, ETC.
- THE CONTRACTOR SHALL RESTORE THE SITE AND ADJACENT AREA AT A MINIMUM TO THEIR PRE-EXISTING CONDITION. ALL PAVED AND CONCRETE AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED. ALL FENCING DISTURBED DURING CONSTRUCTION SHALL BE RESTORED, AND ALL GRASSED AREAS DISTURBED DURING CONSTRUCTION SHALL BE TOPSOILED, SEED, AND FERTILIZED.
- IT IS RECOMMENDED THAT THE PROSPECTIVE BIDDER VISIT THE SITE PRIOR TO BIDDING AND ASCERTAIN FOR THEMSELVES THE EXISTING CONDITIONS TO DETERMINE THE DIFFICULTIES WHICH WILL BE ENCOUNTERED FOR A COMPLETE JOB. ALL COSTS SHALL BE INCLUDED WITHIN THE VARIOUS RELATED BID ITEMS OUTLINED IN THE PROJECT SPECIFICATIONS.
- CONTRACTOR MUST MAINTAIN DRAINAGE FLOW THROUGHOUT CONSTRUCTION.
- CONTRACTOR SHALL CONTACT THE GAS COMPANY TO HAVE THEM RESET GAS VALVES PRIOR TO PAVING.
- SHOULD ANY DISCREPANCIES BE FOUND BETWEEN THE PLANS AND SPECIFICATIONS, SPECIFICATIONS SHALL GOVERN.
- CONCRETE WASHOUT STATION SHALL BE SUPPLIED ON SITE FOR THE DURATION OF TIME THAT CONCRETE WORK IS BEING COMPLETED AND ABLE TO HOLD ALL SOLIDS AND LIQUIDS THAT COME FROM A TYPICAL WASHOUT AFTER A POUR. CONCRETE WASHOUT SHALL NOT BE PERFORMED INTO SOIL, ONTO ASPHALT OR EXISTING CONCRETE OR INTO AN UNAPPROVED CONTAINER SUCH AS A BUCKET OR PLASTIC TRASH BAG.

ZONE: A- AGRICULTURAL MANNINGTON TWP., SALEM COUNTY, NEW JERSEY			
REQUIREMENTS	REQUIRED	EXISTING/PROPOSED *	STATUS
MINIMUM LOT AREA	3 Ac.	8.2 Ac.	NO CHANGE
MINIMUM LOT WIDTH	250 FT.	> 250 FT.	NO CHANGE
MINIMUM LOT DEPTH	350 FT.	> 350 FT.	NO CHANGE
<b>PRINCIPAL STRUCTURE</b>			
MIN. FRONT YARD SETBACK	75 FT.	> 75 FT.	NO CHANGE
MIN. SIDE YARD SETBACK	40 FT.	> 40 FT.	NO CHANGE
MIN. REAR YARD SETBACK	60 FT.	> 60 FT.	NO CHANGE
MAX. BUILDING HEIGHT	35 FT.	< 35 FT.	NO CHANGE
MAX. BUILDING COVERAGE	10%	< 10%	CONFORMS
MAX. IMPERVIOUS COVERAGE	15%	< 15%	CONFORMS

PARKING SCHEDULE			
	REQUIRED	EXISTING	PROPOSED
HIGH SCHOOL			
(10 PER CLASSROOM)		313	315
ADA TOTAL	8	8	NO CHANGE
(301-400 SPACES)			
VAN ACCESSIBLE	2	2	NO CHANGE

Sheet List Table	
Sheet Number	Sheet Title
1	COVER
2	EXISTING CONDITIONS & DEMOLITION PLAN
3	SITE PLAN
4	PAVEMENT REPAIR PLAN
5	GRADING AND DRAINAGE PLAN
6	SOIL EROSION & SEDIMENT CONTROL PLAN
7	SOIL EROSION & SEDIMENT CONTROL NOTES- DETAILS
8	SOIL EROSION & SEDIMENT CONTROL NOTES
9	CONSTRUCTION DETAILS

PREPARED FOR  
**SALEM COUNTY CAREER & TECHNICAL HIGH SCHOOL**  
880 NJ ROUTE 45 (SALEM WOODSTOWN ROAD)  
MANNINGTON TOWNSHIP, NJ 08098

PREPARED BY

**ARH ASSOCIATES**  
certificates of authorization  
NJ no. 24GA2973300, DE no. 2187

**ADAMS, REHMANN & HEGGAN ASSOCIATES, INC.**  
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FAX (609) 567-8909

*Carolyn A. Feigin*  
**CAROLYN A. FEIGIN**  
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NEW JERSEY LICENSE NO. 24G54-47200

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REVISIONS

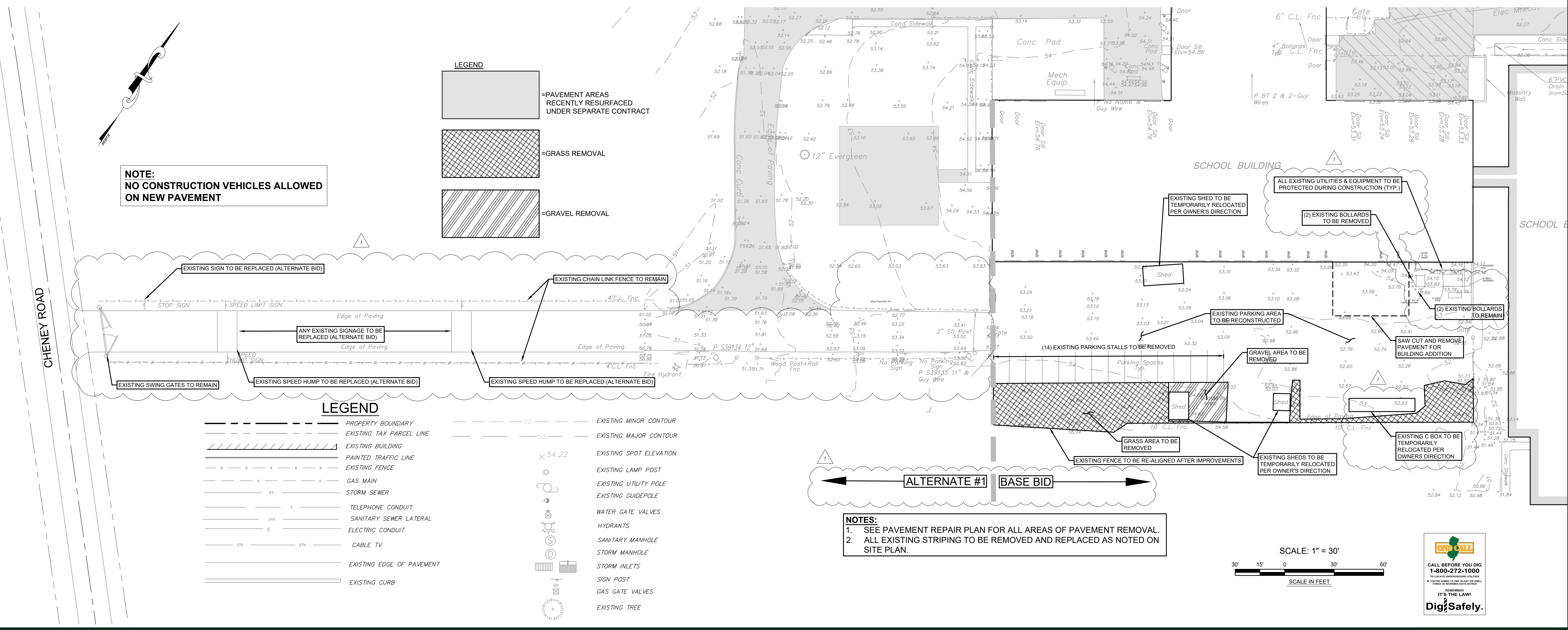
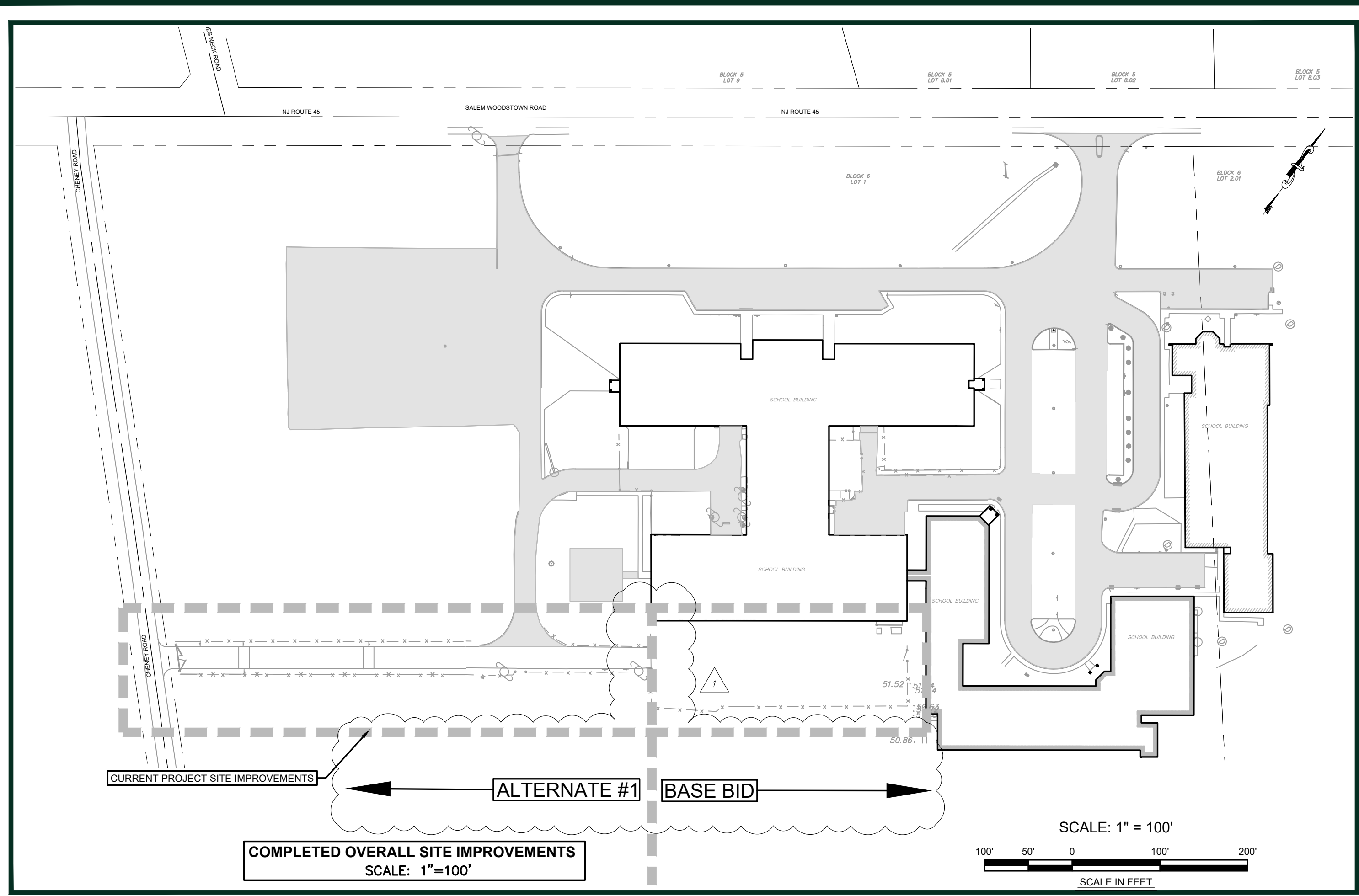
COVER FOR  
**SALEM COUNTY CAREER & TECHNICAL HIGH SCHOOL**  
BLOCK 6, LOTS 1 & 2.01  
WELDING ROOM ADDITION AND REPAVING & RESURFACING PLANS  
MANNINGTON TOWNSHIP, SALEM COUNTY, NEW JERSEY

DATE: NOVEMBER 03, 2023  
SCALE: As Shown  
DRAWN BY: J.M.B.  
CHECKED BY: J.M.B.  
PROJ. NO.: 5051571

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**SALEM COUNTY CAREER & TECHNICAL HIGH SCHOOL**  
 BLOCK 6, LOTS 1 & 2.01  
 WELDING ROOM ADDITION AND REPAVING & RESURFACING PLANS  
 MANNINGTOWN TOWNSHIP, SALEM COUNTY, NEW JERSEY

DATE: NOVEMBER 03, 2023  
 scale: As Shown  
 drawn by: P.T.  
 checked: J.M.B.  
 proj. no.: 5051571

EXISTING CONDITIONS & DEMOLITION PLAN FOR

REVISIONS

NOVEMBER 03, 2023

CALL BEFORE YOU DIG  
 1-800-272-1000  
 IT'S THE LAW!  
 Dig Safely.

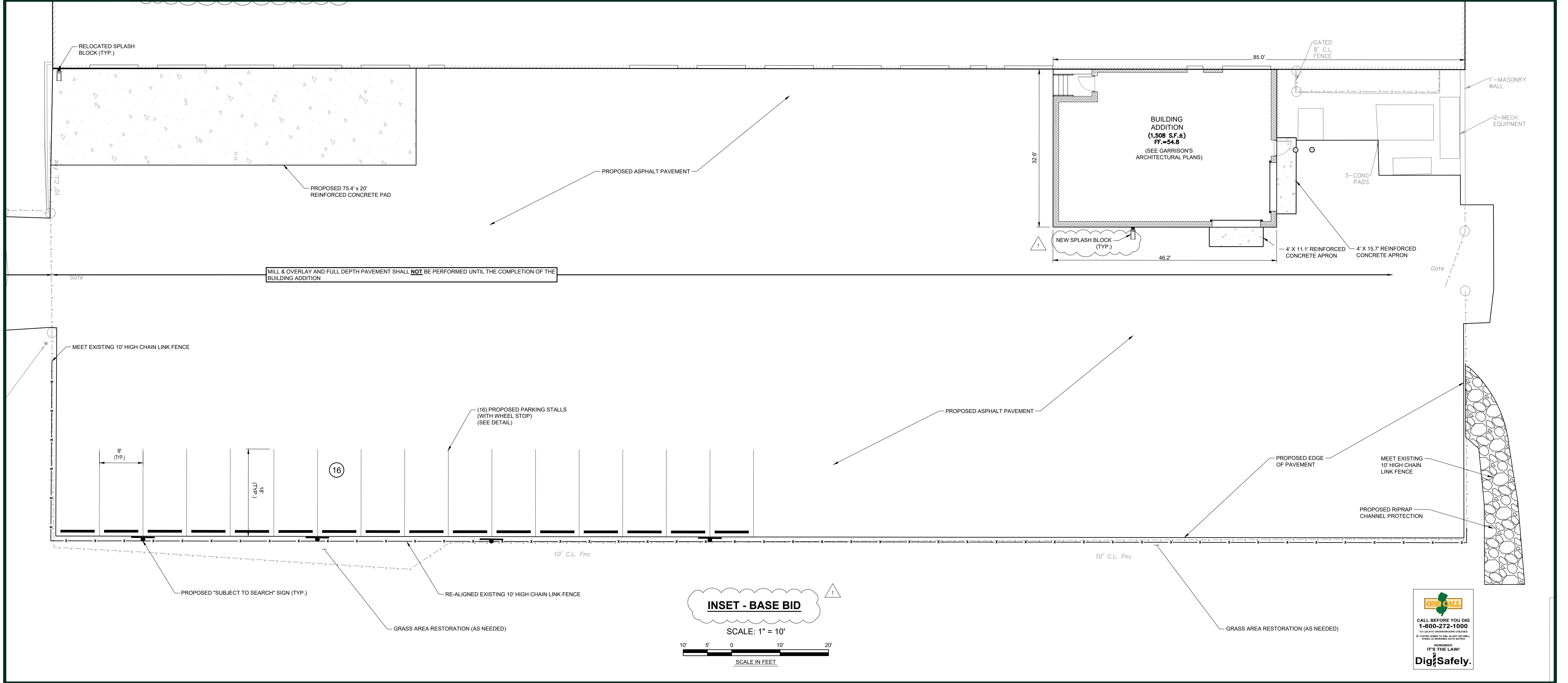
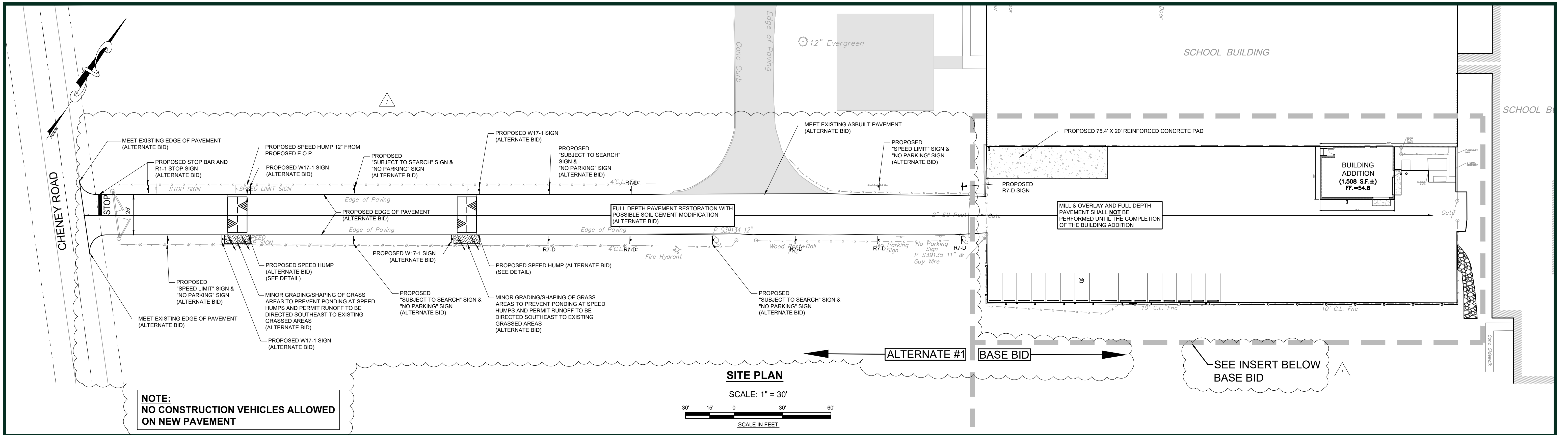
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2023-11-30 ADDENDUM #1  
 REVISIONS

**SITE PLAN FOR SALEM COUNTY CAREER & TECHNICAL HIGH SCHOOL BLOCK 6, LOTS 1 & 2.01 WELDING ROOM ADDITION AND PAVING & RESURFACING PLANS**  
 MANNINGTON TOWNSHIP, SALEM COUNTY, NEW JERSEY

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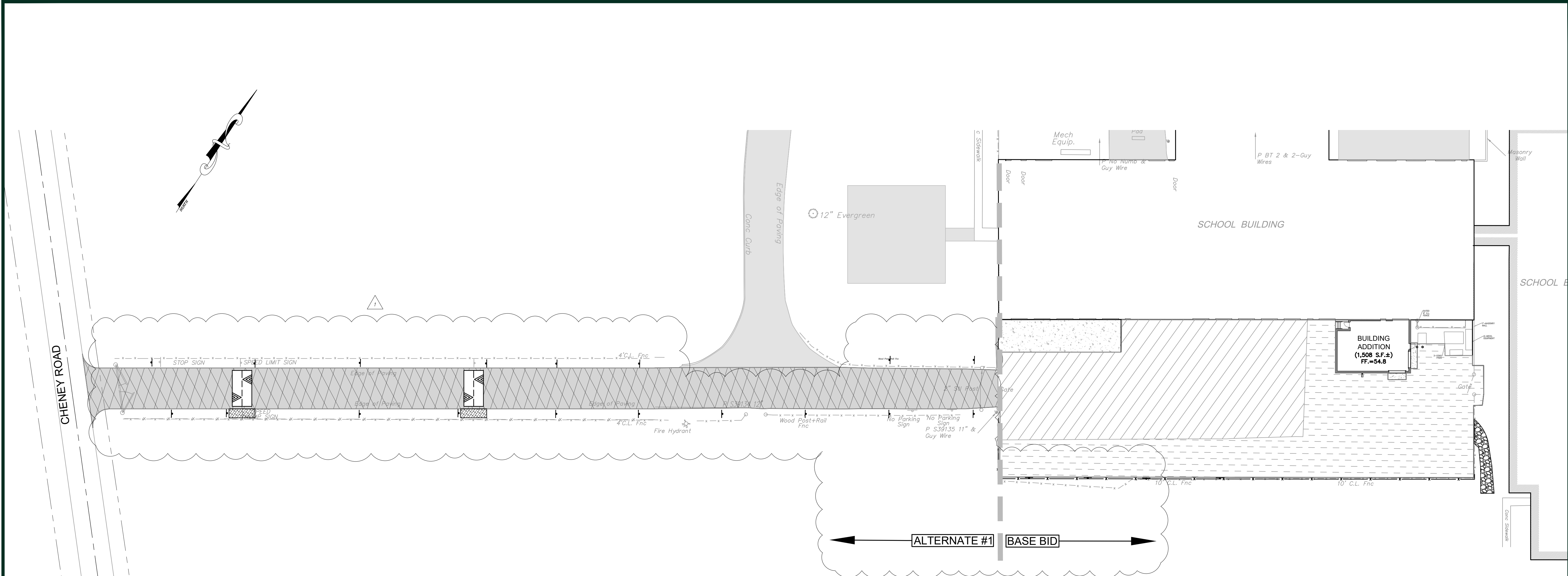
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PAVEMENT REPAIR PLAN  
 FOR  
 SALEM COUNTY CAREER & TECHNICAL HIGH SCHOOL  
 BLOCK 6, LOTS 1 & 2.01  
 WELDING ROOM ADDITION AND PAVING & RESURFACING PLANS  
 MANNINGTON TOWNSHIP, SALEM COUNTY, NEW JERSEY

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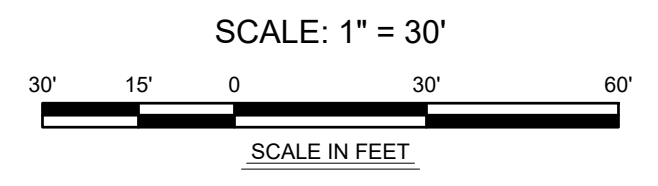
PAVEMENT REPAIR SECTIONS		
COURSE	MATERIAL	STANDARD DUTY THICKNESS (INCHES)
ASPHALT SURFACE	HMA 9.5M64 SURFACE COURSE	2.0
ASPHALT BASE	HMA 19.5M64 BASE COURSE	3.0
GRANULAR	NJDOT DGA BASE COURSE	6.0

**PAVEMENT NOTES:**

- PRIOR TO THE START OF PAVEMENT REPAIR OPERATIONS, THE CONTRACTOR SHALL IDENTIFY THE LOCATIONS OF ALL EXISTING ABOVEGROUND AND UNDERGROUND UTILITIES. ALL UTILITIES ARE TO BE PROTECTED DURING REPAIR OPERATIONS. CONTRACTOR SHALL BURY ANY UTILITIES FOUND WITHIN THE EXISTING OR PROPOSED PAVEMENT BOXES WITH THE ASSISTANCE OF THE RESPECTIVE LICENSED UTILITY PROFESSIONALS.
- TWO (2") OVERLAY AREAS TO BE PITCHED SUCH THAT NO AREAS OF PONDING ARE CREATED. RUNOFF SHALL BE DIRECTED TO FOLLOW EXISTING DRAINAGE PATTERNS. AT SEAMS WITH EXISTING PAVEMENT, GRADES TO MATCH EXISTING. THE EXISTING SURFACE SHALL BE MADE TO BE STRUCTURALLY SOUND, LEVEL, CLEAN AND COATED WITH TACK COAT PRIOR TO THE OVERLAY.
- MILL AND OVERLAY PAVEMENT REPAIR AREAS SHALL BE PROOF ROLLED AFTER MILLING, TO IDENTIFY ANY HEAVING, INDICATING POOR UNDERLYING PAVEMENT. IF HEAVING OCCURS, THE PAVEMENT REPAIR METHOD SHALL BE SWITCHED TO FULL DEPTH PAVEMENT REPAIR IN ACCORDANCE WITH NOTES #4 & 7, AT THE DIRECTION OF THE 3rd PARTY TESTING FIRM (GEOTECHNICAL ENGINEER) AND WITH THE ENGINEER AND OWNER'S APPROVAL. NO MILLINGS SHALL BE REUSED FOR THE OVERLAY. THE OVERLAY SHALL CONSIST OF THE SURFACE PAVEMENT MIX AS SPECIFIED IN THE PAVEMENT REPAIR SECTIONS CHART.
- DURING ANY FULL DEPTH PAVEMENT REPAIR OPERATIONS, THE EXPOSED SUBGRADE SHALL BE COMPACTED, AND PROOF ROLLED TO IDENTIFY SOFT OR LOOSE SOILS. IF LOOSE OR SOFT SOILS ARE ENCOUNTERED, ADDITIONAL COMPACTION OR SOIL CEMENT MODIFICATION MAY BE NECESSARY AS DETERMINED BY THE GEOTECHNICAL ENGINEER. SOIL CEMENT MODIFICATION SHALL BE PERFORMED AT THE DIRECTION OF THE 3rd PARTY TESTING FIRM, AND WITH THE ENGINEER AND OWNER'S APPROVAL. UNDER THE ALTERNATE BID ITEM, FOR ALL NECESSARY AREAS
- GEOGRID SHALL BE USED WHEN THE PROPOSED EXCAVATIONS OF EXISTING SUBGRADE SOILS EXCEED 11 INCHES. GEOGRID SHALL BE PLACED ON SUBGRADE. 6" THICK DGA SHALL BE PLACED ON TOP OF GEOGRID.
- ALL SAWCUT EDGES OF REPAIR AREAS SHOULD BE TREATED WITH A TACK COAT PRIOR TO PLACEMENT OF NEW PAVEMENT.
- REFER TO THE PAVEMENT REPAIR SECTIONS CHART FOR RECOMMENDED STANDARD PAVEMENT THICKNESS. THE RECOMMENDED PAVEMENT THICKNESS MAY POTENTIALLY REQUIRE OVER EXCAVATION OF THE EXISTING SUBGRADE IN ORDER TO MAINTAIN SIMILAR EXISTING SURFACE GRADES. ALL OVER-EXCAVATED MATERIALS SHALL EITHER BE UTILIZED AND SPREAD THROUGHOUT THE SCHOOL PROPERTY OR HAULED AWAY OFF-SITE AND BE TESTED AND DISPOSED OF PER ALL STATE AND LOCAL REGULATIONS. ALTERNATIVELY, SELECT FILL MAY BE NEEDED IN ORDER TO ACHIEVE DESIRED GRADES. ALL FILL TO BE COMPACTED IN 6" LIFTS.
- ALL FINAL PAVEMENT GRADES TO BE PLACED TO MAINTAIN EXISTING SURFACE GRADES, EXCEPT WHERE OTHERWISE NOTED. ALL GRADES MUST MAINTAIN A POSITIVE PITCH, AND NO PONDING, DEPRESSIONS OR LOW SPOTS SHALL BE CREATED.
- SOIL CEMENT MODIFICATION SHALL CONSIST OF A 6% CEMENT ADDITIVE WITHIN THE TOP 12" OF COMPACTED SUBGRADE (BELOW THE PAVEMENT BOX).
- MILLINGS (RAP) MAY BE USED FOR THE SUBBASE; IF SO, THEY SHALL BE BLENDED WITH DGA.

**PAVEMENT LEGEND**

- = FULL DEPTH STANDARD DUTY PAVEMENT REPAIR \* SOIL CEMENT MODIFICATION (ALTERNATE BID) (13,985 S.F.)
- = MILL AND OVERLAY (12,231 S.F.)
- = FULL DEPTH STANDARD DUTY PAVEMENT REPAIR/NEW PAVEMENT AREAS (12,227 S.F.)
- = PAVEMENT AREAS RECENTLY RESURFACED UNDER SEPARATE CONTRACT
- = REINFORCED CONCRETE PAD (1,620 S.F.)



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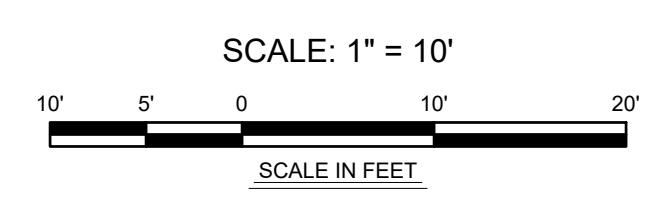
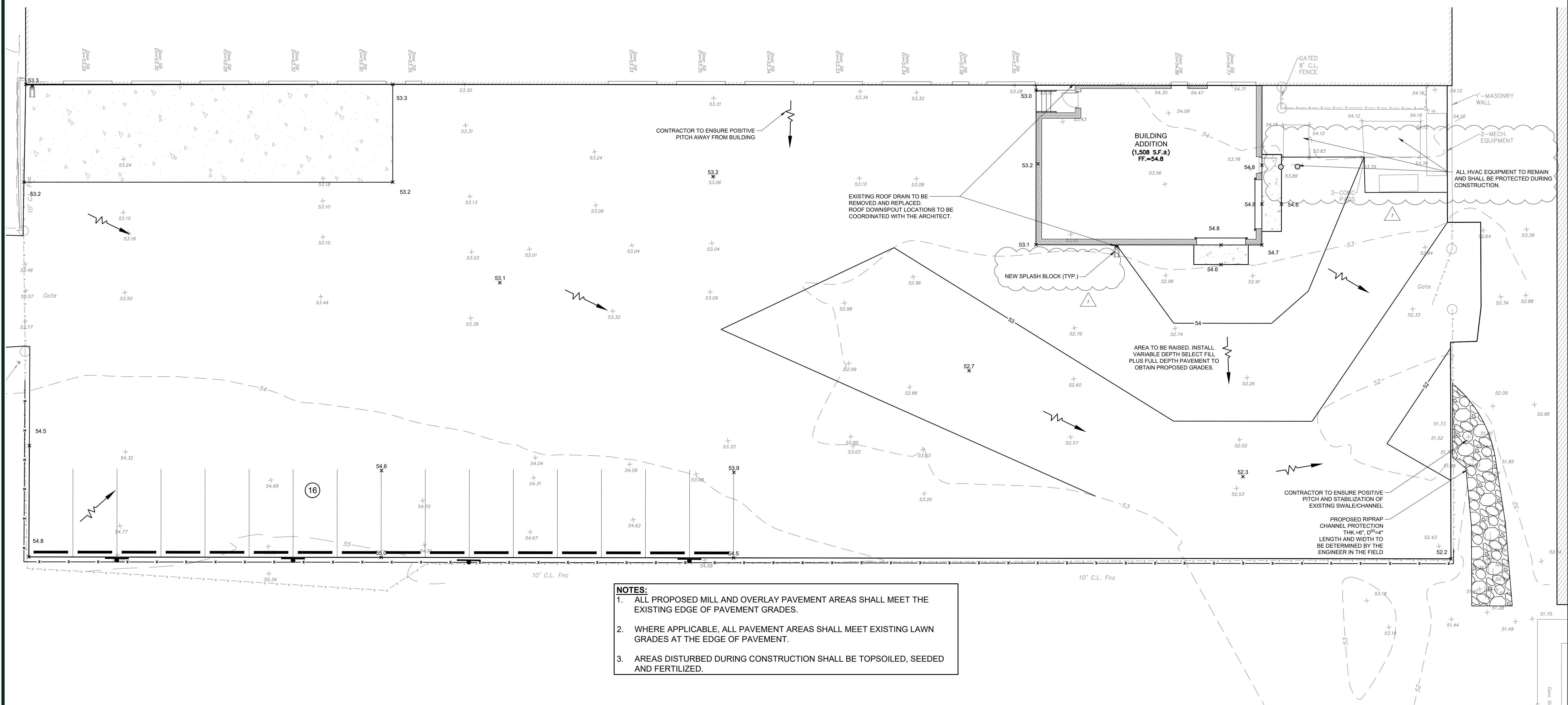
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**NOTE:**  
 NO CONSTRUCTION VEHICLES ALLOWED  
 ON NEW PAVEMENT

**LEGEND**

- |               |                           |     |  |
|---------------|---------------------------|-----|--|
| ---           | PROPERTY BOUNDARY         | ☆   | EXISTING LAMP POST                       |
| ---           | EXISTING TAX PARCEL LINE  | ○   | EXISTING UTILITY POLE                    |
| ▤             | EXISTING BUILDING         | ○   | EXISTING GUIDEPOLE                       |
| -x-x-x-x-x-   | PAINTED TRAFFIC LINE      | ○   | WATER GATE VALVES                        |
| -x-x-x-x-x-   | EXISTING FENCE            | ○   | HYDRANTS                                 |
| -o-o-o-o-o-   | GAS MAIN                  | ○   | SANITARY MANHOLE                         |
| -st-st-st-st- | STORM SEWER               | ○   | STORM MANHOLE                            |
| -t-t-t-t-t-   | TELEPHONE CONDUIT         | ○   | STORM INLETS                             |
| -e-e-e-e-e-   | ELECTRIC CONDUIT          | ○   | SIGN POST                                |
| -ctv-ctv-ctv- | CABLE TV                  | ○   | GAS GATE VALVES                          |
| ---           | EXISTING EDGE OF PAVEMENT | ○   | EXISTING TREE                            |
| ---           | EXISTING CURB             | ■   | RESET GRATE - (SEE<br>INLET REPAIR NOTE) |
| ---           | EXISTING MINOR CONTOUR    | --- | PROPOSED CURB LINE                       |
| ---           | EXISTING MAJOR CONTOUR    | --- | PROPOSED EDGE OF PAVEMENT                |
| 54.22         | EXISTING SPOT ELEVATION   | --- | PROPOSED CONCRETE PAD                    |
| 52            |                           | --- | PROPOSED CONTOUR LINE                    |
| 51.46         |                           | --- | PROPOSED GRADE ELEVATION                 |
| V.I.F.        |                           | --- | DIRECTIONAL FLOW ARROW                   |
|               |                           | --- | VERIFY IN FIELD                          |

- NOTES:**
1. ALL PROPOSED MILL AND OVERLAY PAVEMENT AREAS SHALL MEET THE EXISTING EDGE OF PAVEMENT GRADES.
  2. WHERE APPLICABLE, ALL PAVEMENT AREAS SHALL MEET EXISTING LAWN GRADES AT THE EDGE OF PAVEMENT.
  3. AREAS DISTURBED DURING CONSTRUCTION SHALL BE TOPSOILED, SEEDED AND FERTILIZED.



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**ARH ASSOCIATES**  
 Certificate of Authorization  
 NJ No. 2462979300, DE No. 2187

2023-11-30 ADDENDUM #1  
 REVISIONS

GRADING AND DRAINAGE PLAN  
 FOR  
**SALEM COUNTY CAREER & TECHNICAL HIGH SCHOOL**  
 BLOCK 6, LOTS 1 & 2.01  
 WELDING ROOM ADDITION AND REPAVING & RESURFACING PLANS  
 MANNINGTON TOWNSHIP, SALEM COUNTY, NEW JERSEY

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 checked: J.M.B.  
 proj. no.: 5051571

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KEY MAP  
SCALE: 1"=2,000'

CUMBERLAND-SALEM CONSERVATION DISTRICT  
CERTIFICATION # 24-006  
ISSUED ON 08/09/2023

SEQUENCE OF CONSTRUCTION	
1	INSTALL SILT FENCE, STABILIZED CONSTRUCTION ENTRANCE AND OTHER SESC MEASURES.
2	CONSTRUCTION OF BUILDING ADDITION
3	MILL/OVERLAY OR FULL DEPTH PAVEMENT REPAIR AND INSTALLATION, AS DIRECTED.
4	CONCRETE PAD TO BE CONSTRUCTED
5	FINAL PAVING TO BE COMPLETED.
6	STRIPING AND SIGNAGE.
7	PERMANENT STABILIZATION OF ANY DISTURBED AREAS.
8	REMOVAL OF SILT FENCE, STABILIZED CONSTRUCTION ENTRANCE, ETC.

**LEGEND**

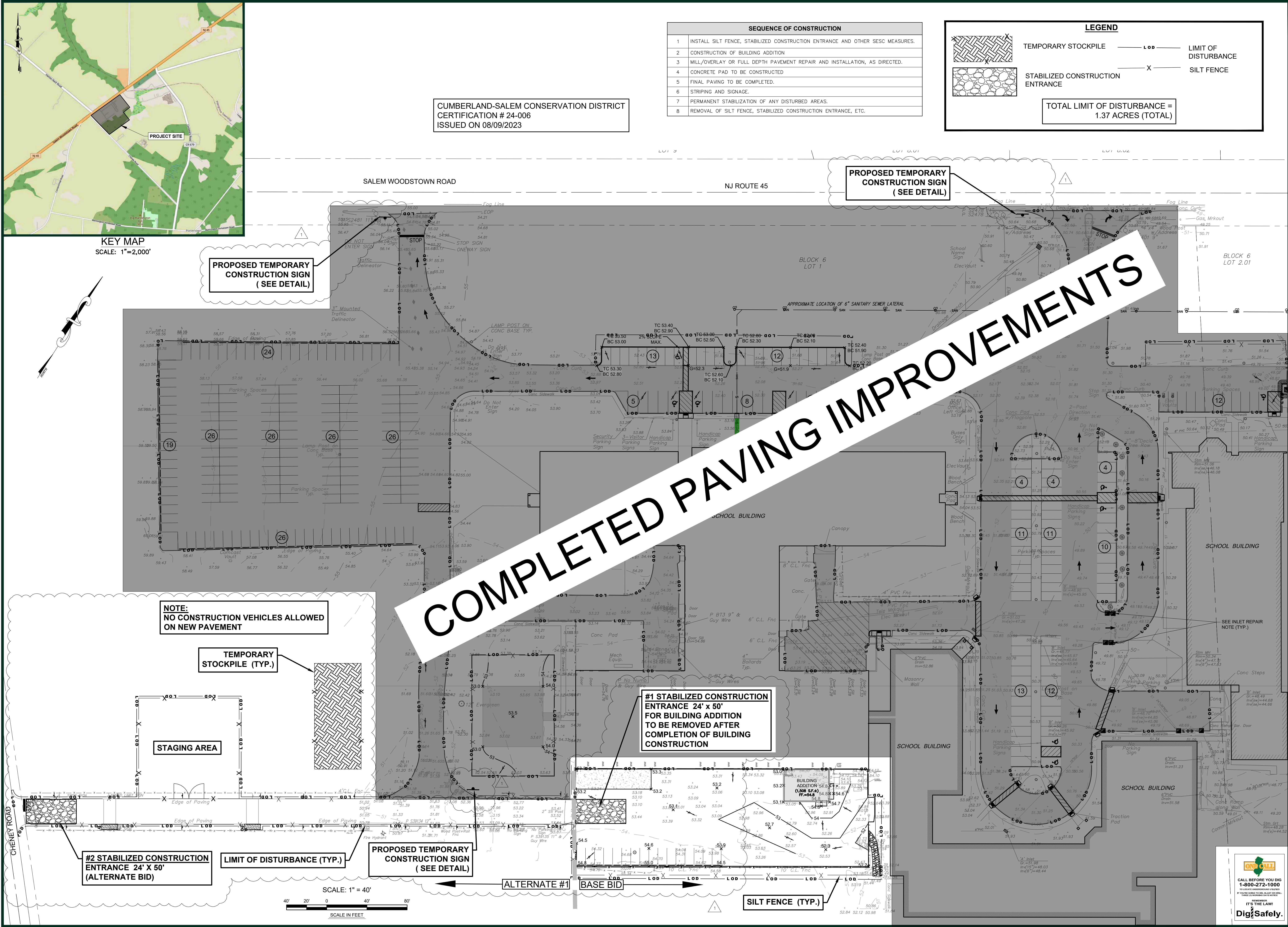
TEMPORARY STOCKPILE

STABILIZED CONSTRUCTION ENTRANCE

LIMIT OF DISTURBANCE

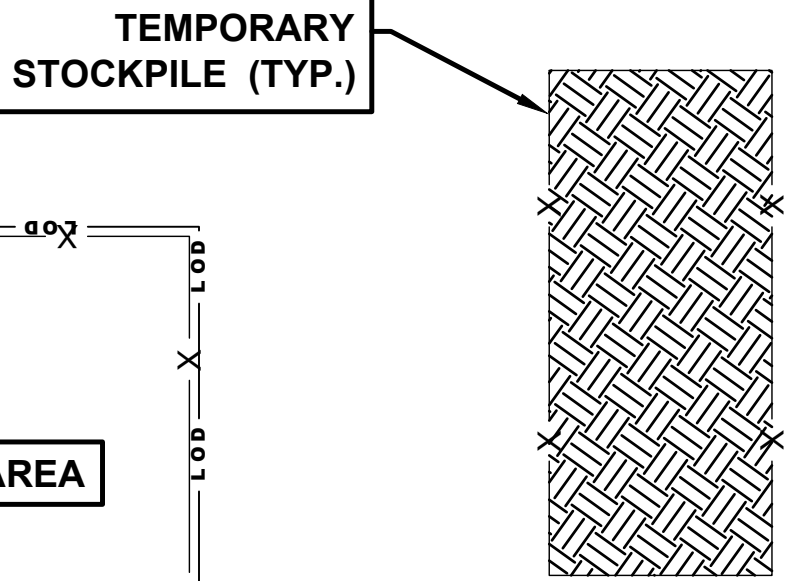
SILT FENCE

TOTAL LIMIT OF DISTURBANCE = 1.37 ACRES (TOTAL)



**COMPLETED PAVING IMPROVEMENTS**

NOTE:  
NO CONSTRUCTION VEHICLES ALLOWED  
ON NEW PAVEMENT



#1 STABILIZED CONSTRUCTION  
ENTRANCE 24' x 50'  
FOR BUILDING ADDITION  
TO BE REMOVED AFTER  
COMPLETION OF BUILDING  
CONSTRUCTION

#2 STABILIZED CONSTRUCTION  
ENTRANCE 24' x 50'  
(ALTERNATE BID)

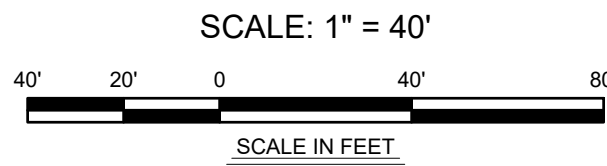
LIMIT OF DISTURBANCE (TYP.)

PROPOSED TEMPORARY  
CONSTRUCTION SIGN  
(SEE DETAIL)

ALTERNATE #1

BASE BID

SILT FENCE (TYP.)



CALL BEFORE YOU DIG  
1-800-272-1000

IT'S THE LAW!  
Dig Safely.

DRAWING LOCATION  
LAST DATE SAVED  
LAST SAVE BY

W:\FILEPROJECTS\5051571\END\DWG\Welding Building  
Plan\5051571-SESC.dwg  
11/09/2023  
jha

*Carolyn A. Feigin*  
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SOIL EROSION & SEDIMENT CONTROL PLAN  
FOR  
SALEM COUNTY CAREER & TECHNICAL HIGH SCHOOL  
BLOCK 6, LOTS 1 & 2.01  
WELDING ROOM ADDITION AND PAVING & RESURFACING PLANS  
MANNINGTON TOWNSHIP, SALEM COUNTY, NEW JERSEY

DATE: NOVEMBER 03, 2023  
SCALE: As Shown  
DRAWN BY: P.T.  
CHECKED: J.M.B.  
PROJ. NO.: 5051571

6 of 9

**CUMBERLAND-SALEM SOIL EROSION AND SEDIMENT CONTROL NOTES:**

- ALL APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN PLACE PRIOR TO ANY GRADING OPERATION AND/OR INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES.
- SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON THE PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.
- ALL APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE LEFT IN PLACE UNTIL CONSTRUCTION IS COMPLETED AND/OR THE AREA IS STABILIZED.
- ANY DISTURBED AREA THAT WILL BE LEFT EXPOSED FOR MORE THAN SIXTY (60) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING AND FERTILIZATION IN ACCORDANCE WITH THE NEW JERSEY STANDARDS AND APPLICATION RATES SHALL BE INCLUDED IN THE NARRATIVE. IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREAS WILL BE MULCHED WITH SALT HAY OR EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE NEW JERSEY STANDARDS (I.E. PEG AND TWINE, MULCH MATTING OR LIQUID MULCH BINDER).
- ALL CRITICAL AREAS SUBJECT TO EROSION WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH AT A RATE OF 2 TONS PER ACRE, ACCORDING TO THE NEW JERSEY STANDARDS IMMEDIATELY FOLLOWING ROUGH GRADING.
- THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
- ALL SOIL EROSION AND SEDIMENTATION STRUCTURES WILL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS AND AFTER EVERY STORM EVENT.
- SOIL STOCKPILES ARE NOT TO BE LOCATED WITHIN FIFTY (50) FEET OF A FLOODPLAIN, SLOPE, ROADWAY OR DRAINAGE FACILITY. THE BASE OF ALL STOCKPILES SHOULD BE PROTECTED BY A HAY BALE BARRIER OR SEDIMENT FENCE. PROPOSED LOCATIONS MUST BE DELINEATED ON THE PLAN.
- A CRUSHED STONE, TIRE CLEANING PAD WILL BE INSTALLED WHEREVER A CONSTRUCTION ENTRANCE EXISTS. THE RIP-RAP PAD MUST BE 100 FEET IN LENGTH AND THE STONE MUST BE 1.5 - 4" IN SIZE, PLACED 12" THICK AND THE FULL WIDTH OF THE ENTRANCE. IT SHOULD BE UNDERLAIN WITH A SUITABLE SYNTHETIC FILTER FABRIC AND MAINTAINED. (THE STRUCTURE MUST BE DELINEATED AND DETAIL INCLUDED ON THE PLANS.)
- IF A STONE CONSTRUCTION ENTRANCE IS TO BE USED AS AN EXIT ON TO A MAJOR HIGHWAY, A THIRTY (30) FOOT PAVED TRANSITION AREA SHALL BE INSTALLED.
- ALL DRIVEWAYS MUST BE STABILIZED WITH 2 1/2" CRUSHED STONE OR SUBBASE PRIOR TO INDIVIDUAL LOT CONSTRUCTION.
- PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
- ALL CATCH BASIN INLETS WILL BE PROTECTED DURING CONSTRUCTION (FILTER DETAILS APPEAR ON PLAN).
- ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED, AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
- ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTRATION DEVICE. THE SEDIMENT FILTER MUST BE CAPABLE OF FILTERING THE SEDIMENT AND BE PLACED SO AS NOT TO CAUSE EROSION OF THE DOWNSTREAM AREA. DETAILS AND MAINTENANCE OF THE DEVICE MUST BE INCLUDED ON THE PLANS. FIELD PLACEMENT AND USE OF THE STRUCTURE MUST BE APPROVED BY THE DISTRICT EROSION CONTROL INSPECTOR PRIOR TO COMMENCEMENT OF DEWATERING ACTIVITIES.
- THE CUMBERLAND/SALEM SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED, IN WRITING, 72 HOURS PRIOR TO ANY LAND DISTURBANCE.
- SOIL HAVING A PH OF 4.0 OR LESS OR CONTAINING IRON SULPHIDE MUST BE COVERED WITH A MINIMUM OF 12 INCHES OF SOIL HAVING A PH OF 5.0 OR MORE BEFORE SEEDBED PREPARATION.
- IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO PROVIDE CONFIRMATION OF LIME, FERTILIZER AND SEED APPLICATION RATES AT THE REQUEST OF THE CUMBERLAND/SALEM SOIL CONSERVATION DISTRICT.
- NJSA 4-24-39, ET SEQ., REQUIRES THAT NO CERTIFICATE OF OCCUPANCY BE ISSUED BEFORE ALL THE PROVISIONS OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES. ALL SITE WORK FOR THE PROJECT MUST BE COMPLETED PRIOR TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE AS A PREREQUISITE TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY.
- NJSA 4-24-39, ET SEQ., REQUIRES THAT UPON PERMANENT SITE STABILIZATION AND COMPLETION OF CONSTRUCTION THE CONTRACTOR SHALL APPLY TO THE SOIL CONSERVATION DISTRICT FOR A FINAL COMPLIANCE INSPECTION TO CHECK THAT ALL THE PROVISIONS OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES.
- OFFSITE SEDIMENT DISTURBANCE MAY REQUIRE ADDITIONAL CONTROL MEASURES TO BE DETERMINED BY THE EROSION CONTROL INSPECTOR.
- A COPY OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN MUST BE MAINTAINED ON THE PROJECT SITE DURING CONSTRUCTION.
- ANY CONVEYANCE OF THIS PROJECT PRIOR TO ITS COMPLETION WILL TRANSFER FULL RESPONSIBILITY FOR COMPLIANCE WITH THE CERTIFIED PLAN TO ALL SUBSEQUENT OWNERS.
- IMMEDIATELY AFTER THE COMPLETION OF STRIPPING AND STOCKPILING OF TOPSOIL, SEED THE STOCKPILE WITH ANNUAL RYE GRASS. STABILIZE TOPSOIL STOCKPILES WITH STRAW MULCH FOR PROTECTION IF THE SEASON DOES NOT PERMIT THE APPLICATION AND ESTABLISHMENT OF TEMPORARY SEEDING.
- ANY CHANGES TO THE SITE PLAN WILL REQUIRE THE SUBMISSION OF A REVISED SOIL EROSION AND SEDIMENT CONTROL PLAN TO THE CUMBERLAND/SALEM SOIL CONSERVATION DISTRICT. THE REVISED PLAN MUST BE IN ACCORDANCE WITH THE CURRENT NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL.
- MAXIMUM SIDE SLOPES OF ALL EXPOSED SURFACES SHALL NOT BE CONSTRUCTED STEEPER THAN 3:1 UNLESS OTHERWISE APPROVED BY THE DISTRICT.
- THE SOIL EROSION INSPECTOR MAY REQUIRE ADDITIONAL SOIL EROSION MEASURES TO BE INSTALLED, AS DIRECTED BY THE DISTRICT INSPECTOR.

**DUST CONTROL METHODS:**

THE FOLLOWING METHODS SHOULD BE CONSIDERED FOR CONTROLLING DUST:

MULCHES - SEE STANDARD OF STABILIZATION WITH MULCHES

VEGETATIVE COVER - SEE TEMPORARY AND PERMANENT VEGETATIVE COVER STANDARDS

SPRAY-ON ADHESIVES - ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS.

DUST CONTROL MATERIAL			
MATERIAL	WATER DILUTION	TYPE OF NOZZLE	APPLY GALLONS/ ACRE
ANIONIC ASPHALT EMULSION	7:1	COARSE SPRAY	1200
LATEX EMULSION	12.5:1	FINE SPRAY	235
RESIN IN WATER	4:1	FINE SPRAY	300
POLYACRYLAMIDE (PAM)-SPRAY ON POLYACRYLAMIDE (PAM)-DRY SPREAD		APPLY ACCORDING TO MANUFACTURER'S INSTRUCTIONS. MAY ALSO BE USED AS AN ADDITIVE TO SEDIMENT BASINS TO FLOCCULATE AND PRECIPITATE SUSPENDED COLLOIDS.	
ACIDULATED SOY BEAN SOAP STICK	NONE	COARSE SPRAY	1200

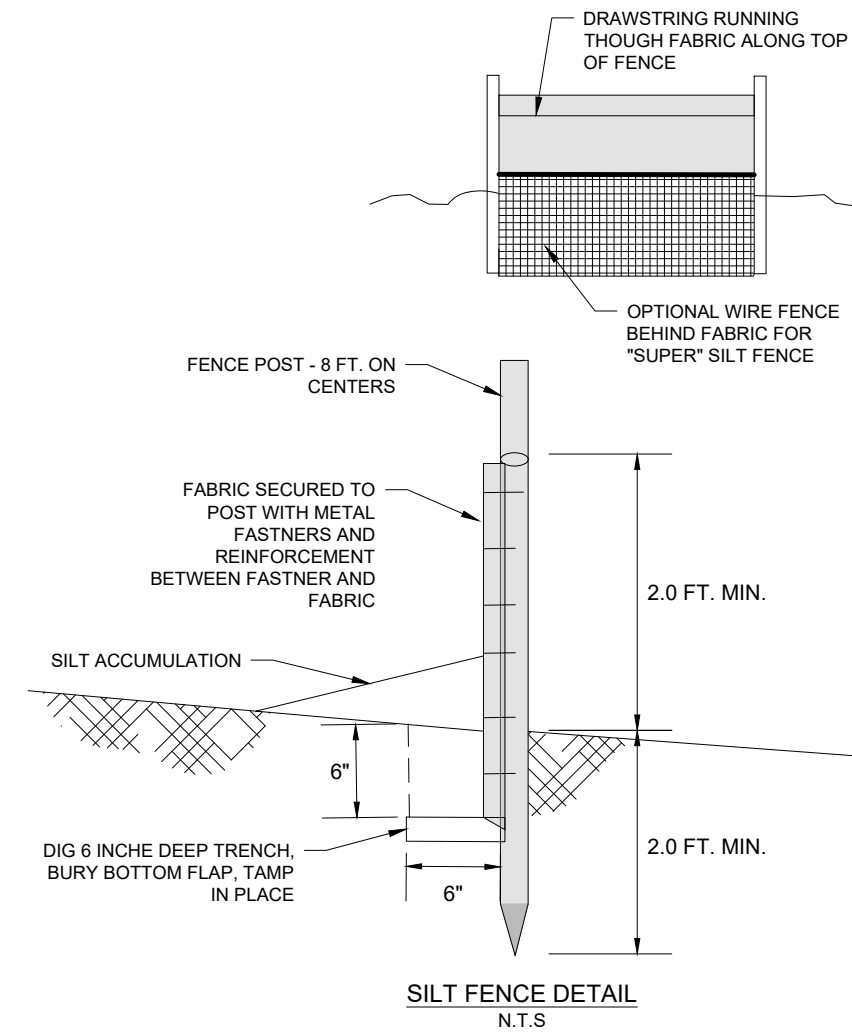
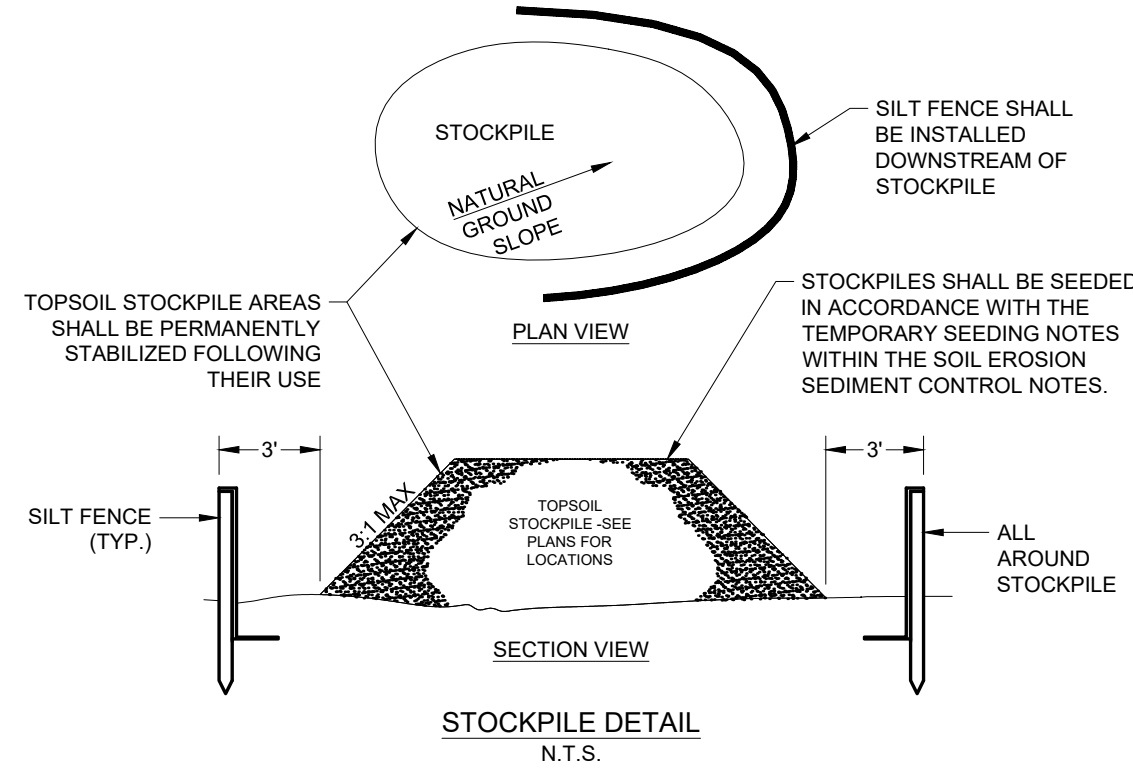
TILLAGE - TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS A TEMPORARY EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART AND SPRING-TOOTHED HARROWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.

SPRINKLING - SITE IS SPRINKLED UNTIL THE SURFACE IS WET.

BARRIERS - SOLID BOARD FENCE, SNOW FENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING.

CALCIUM CHLORIDE - SHALL BE IN THE FORM OF LOOSE, DRY GRANULES OR FLAKES FINE ENOUGH TO FEED THROUGH COMMONLY USED SPREADERS AT A RATE THAT WILL KEEP SURFACE MOIST BUT NOT CAUSE POLLUTION OR PLANT DAMAGE. IF USED ON STEEPER SLOPES, THEN USE OTHER PRACTICES TO PREVENT WASHING INTO STREAMS OR ACCUMULATION AROUND PLANTS.

STONE - COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

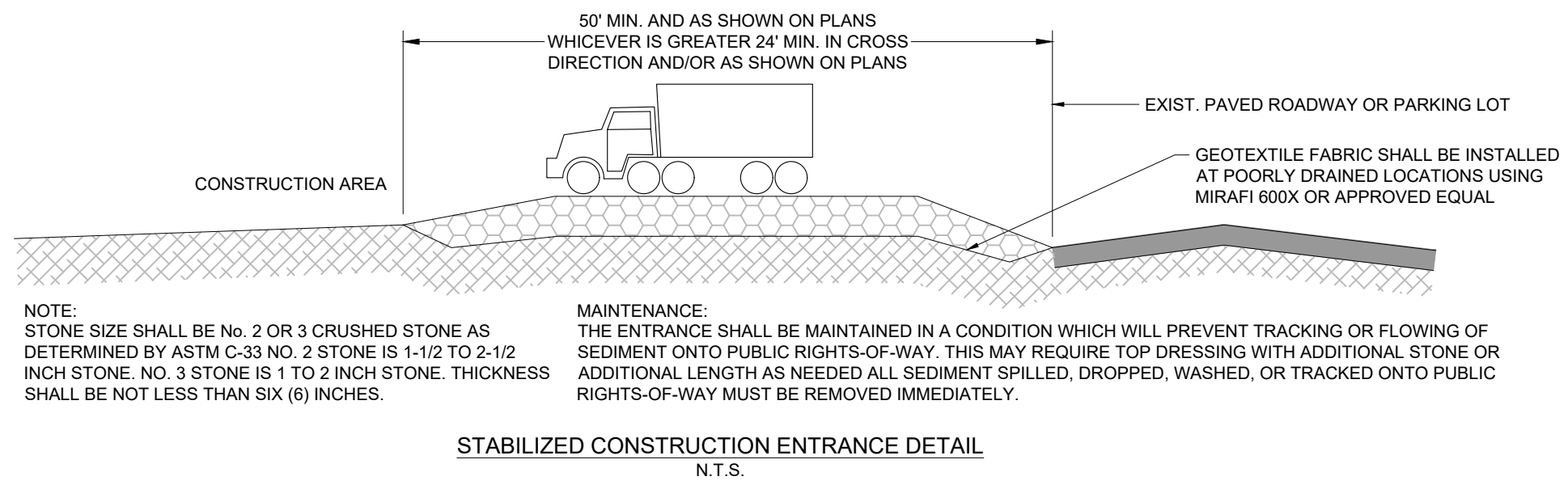


**SILT FENCE REQUIREMENTS NOTES:**

- FENCE POSTS SHALL BE SPACED 8 FEET CENTER-TO-CENTER OR CLOSER. THEY SHALL EXTEND TO AT LEAST 2 FEET INTO THE GROUND AND EXTEND AT LEAST 2 FEET ABOVE GROUND. POSTS SHALL BE CONSTRUCTED OF HARDWOOD WITH A MINIMUM DIAMETER THICKNESS OF 1-1/2 INCHES.
- "SUPER" SILT FENCE- A METAL FENCE WITH 6 INCH OR SMALLER MESH OPENINGS AND AT LEAST 2 FEET HIGH MAY BE UTILIZED. FASTENED TO THE FENCE POSTS, TO PROVIDE REINFORCEMENT AND SUPPORT TO THE GEOTEXTILE FABRIC. POSTS MAY BE SPACED LESS THAN 8 FEET ON CENTER AND MAY BE CONSTRUCTED OF HEAVIER WOOD OR METAL AS NEEDED TO WITHSTAND HEAVIER SEDIMENT LOADING. THIS PRACTICE IS APPROPRIATE WHERE SPACE FOR OTHER PRACTICES IS LIMITED AND HEAVY SEDIMENT LOADING IS EXPECTED. "SUPER" SILT FENCE IS NOT TO BE USED IN PLACE OF PROPERLY DESIGNED DIVERSIONS WHICH MAY BE NEEDED TO CONTROL SURFACE RUNOFF RATES AND VELOCITIES.
- A GEOTEXTILE FABRIC, RECOMMENDED FOR SUCH USE BY MANUFACTURER, SHALL BE BURIED AT LEAST 6 INCHES DEEP IN THE GROUND. THE FABRIC SHALL EXTEND AT LEAST 2 FEET ABOVE THE GROUND. THE FABRIC MUST BE SECURELY FASTENED TO THE POSTS USING A SYSTEM CONSISTING OF METAL FASTENERS (NAILS OR STAPLES) AND A HIGH STRENGTH REINFORCEMENT MATERIAL (NYLON WEBBING, GROMMETS, WASHERS ETC.) PLACED BETWEEN THE FASTENER AND THE GEOTEXTILE FABRIC. THE FASTENING SYSTEM SHALL RESIST TEARING AWAY FROM THE POST. THE FABRIC SHALL INCORPORATE A DRAWSTRING IN THE TOP PORTION OF THE FENCE FOR ADDED STRENGTH.

**SILT FENCE MAINTENANCE NOTES:**

- SEDIMENT SHALL BE REMOVED FROM THE UPSTREAM FACE OF THE BARRIER WHEN IT HAS REACHED A DEPTH OF 1/2 THE BARRIER HEIGHT.
- REPAIR OR REPLACE BARRIER (FABRIC, POSTS, BALES, ETC.) WHEN DAMAGED.
- BARRIERS SHALL BE INSPECTED DAILY FOR SIGNS OF DETERIORATION AND SEDIMENT REMOVAL.



NOTE: STONE SIZE SHALL BE NO. 2 OR 3 CRUSHED STONE AS DETERMINED BY ASTM C-33 NO. 2 STONE IS 1-1/2 TO 2-1/2 INCH STONE. NO. 3 STONE IS 1 TO 2 INCH STONE. THICKNESS SHALL BE NOT LESS THAN SIX (6) INCHES.

MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS NEEDED ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

DRAWING LOCATION	W:\FILEPROJECTS\2023\17\ENGINEERING\Welding Building
LAST DATE SAVED	PlanC-505157-SESC.dwg
LAST SAVE BY	11/09/2023 jha

*Carolyn A. Feigin*  
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 NEW JERSEY LICENSE NO. 2456547200

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**ARH ASSOCIATES**  
 Certificate of Authorization  
 NJ No. 24642797300, DE No. 2187

2023-11-30 ADDENDUM #1  
**REVISIONS**

**SOIL EROSION & SEDIMENT CONTROL NOTES- DETAILS FOR SALEM COUNTY CAREER & TECHNICAL HIGH SCHOOL BLOCK 6, LOTS 1 & 2.01 WELDING ROOM ADDITION AND REPAVING & RESURFACING PLANS MANNINGTON TOWNSHIP, SALEM COUNTY, NEW JERSEY**

DATE: NOVEMBER 03, 2023  
 scale: As Shown  
 drawn by: P.T.  
 checked: J.M.B.  
 proj. no.: 5051571

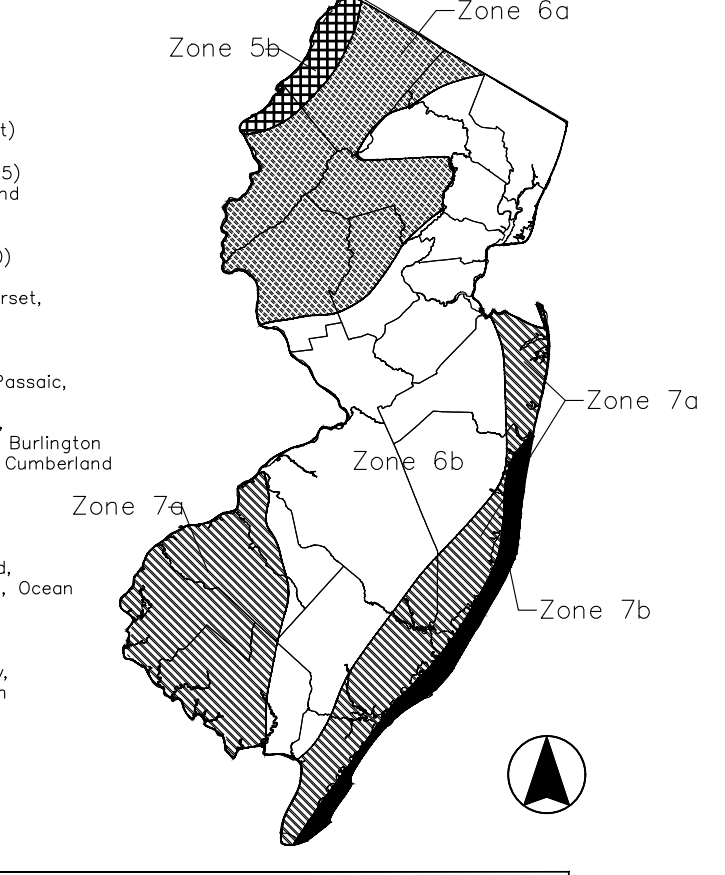
IF THIS PLAN OR DOCUMENT IS USED FOR ANY OTHER PROJECT, THE USER SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

SOIL EROSION VEGETATIVE STANDARD NOTES:

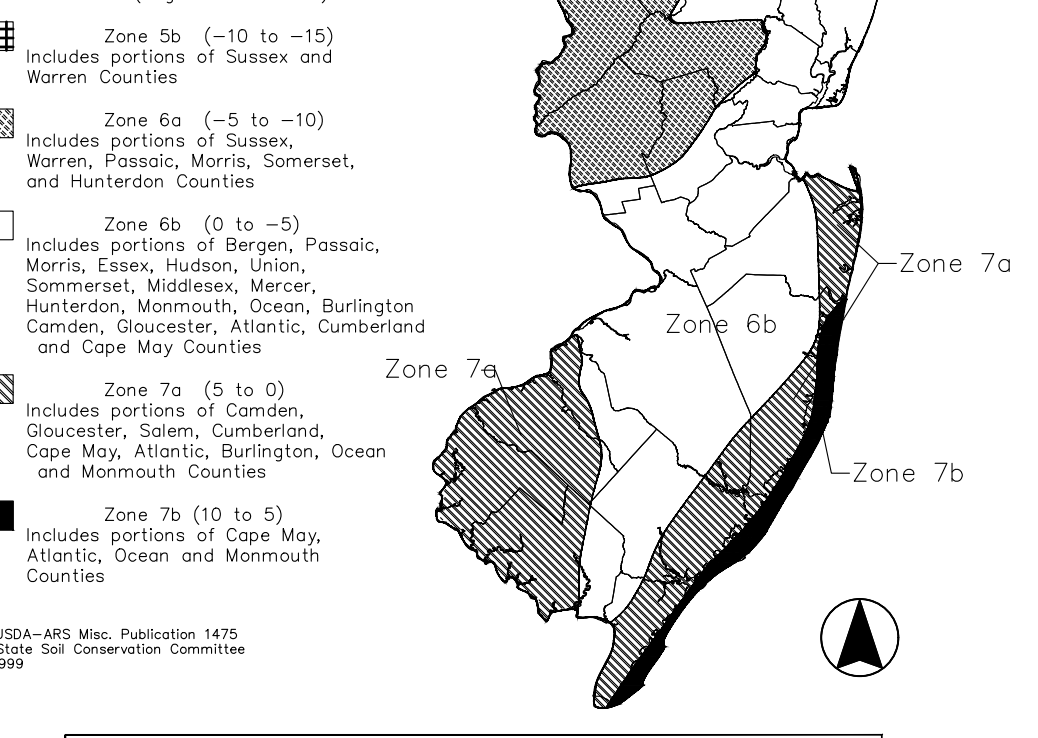
- I. Standard for High Management of Acid-Producing Soils
1. This practice is applicable to any high acid-producing soil materials. Such materials have been found in the Coastal Plain areas of Burlington, Camden, Cumberland, Gloucester, Mercer, Middlesex, Monmouth, Ocean, Salem and Somerset Counties.
2. Early recognition and burial, removal or disposal of high acid-producing soils is essential for limiting the amount of acidic material available to support the proposed site.
3. Methods of disposal of high acid-producing soils include:
a. Landfilling
b. Deep burial
c. Dredging
d. Spreading
e. Composting
f. Other methods
4. Methods and Materials
5. Application
6. Timing
7. Mowing
8. Following burial or removal of high acid-producing soil, topsoiling and seeding of the site (See Temporary Vegetative Cover for Soil Stabilization, Permanent Vegetative Cover and Soil Stabilization, and Topsoiling), monitoring must continue for a minimum of 6 months to ensure there is adequate stabilization.
9. If problems still exist, the affected area must be treated as indicated above to correct the problem.

- b. Wood-fiber or paper-fiber mulch shall be made from wood, plant fibers or paper containing no growth or germination inhibiting materials, used at the rate of 1,500 pounds per acre (or as recommended by the product manufacturer) and may be applied by a hydrosower. Mulch shall not be mixed in the tank with seed. Use is limited to faster slopes and during optimum seeding periods in spring and fall.
c. Pelletized mulch - compressed and extruded paper and/or wood fiber product, which may contain copolymers, tackifiers, fertilizers, and coloring agents. The dry pellets, when applied to a seeded area and watered, form a mulch mat. Pelletized mulch shall be applied according to the manufacturer's recommendations. Mulch may be applied by hand or mechanical spreader at the rate of 60-75 lbs/1,000 square feet and activated with 0.2 to 0.4 inches of water. This material has been found to be beneficial for use on small low or renovation areas, seeded areas where weedseed has much is desired, or on sites where straw mulch and seedler agent is not practical or desirable. Applying the full 0.2 to 0.4 inches of water after spreading pelletized mulch on the seed bed is extremely important for sufficient activation and expansion of the mulch to provide soil coverage.

Figure 4-1 USDA Plant Hardiness Zones Average Annual Minimum Temperature New Jersey



- II. STANDARD FOR DUNE STABILIZATION
1. This practice is applicable along ocean and bay shorelines where blowing sands and storm waves may cause erosion or damage.
2. Methods and Materials
3. Application
4. Timing
5. Mowing
6. Pruning trees and shrubs to remove dead or damaged branches. Remove undesirable or invasive plants to maintain integrity of the landscape and enhance quality of permanent vegetative cover.



- III. STANDARD FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION
1. This practice is applicable along ocean and bay shorelines where blowing sands and storm waves may cause erosion or damage.
2. Methods and Materials
3. Application
4. Timing
5. Mowing
6. Pruning trees and shrubs to remove dead or damaged branches. Remove undesirable or invasive plants to maintain integrity of the landscape and enhance quality of permanent vegetative cover.

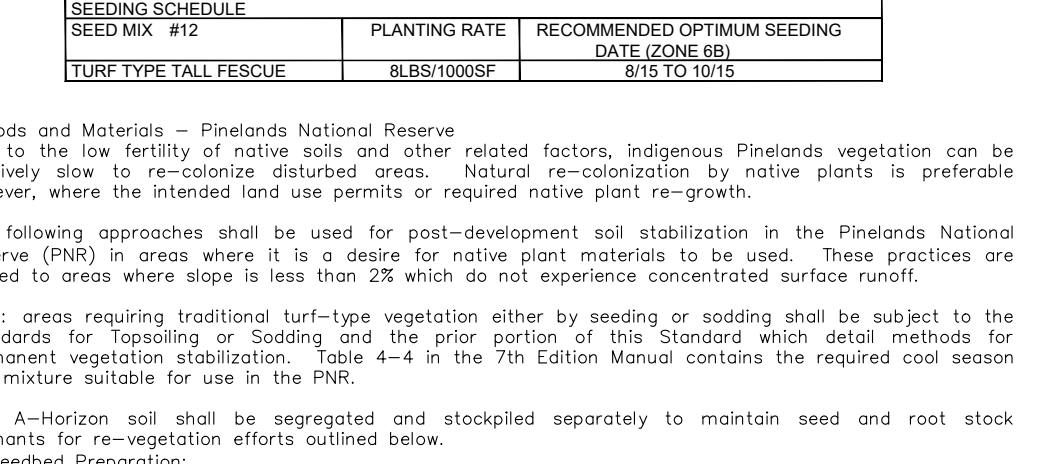


Table with 4 columns: SEEDING SCHEDULE, SEED MIX #12, PLANTING RATE, and RECOMMENDED OPTIMUM SEEDING DATE (BIS TO TOS). Rows include TURF-TYPICAL TURFCURE, TURF-TYPICAL TURFCURE, and TURF-TYPICAL TURFCURE.

Table with 4 columns: SEEDING SCHEDULE, SEED MIX #12, PLANTING RATE, and RECOMMENDED OPTIMUM SEEDING DATE (BIS TO TOS). Rows include TURF-TYPICAL TURFCURE, TURF-TYPICAL TURFCURE, and TURF-TYPICAL TURFCURE.

- A. Methods and Materials: (Areas other than Pinelands National Reserve)
1. Grade as needed and feasible to permit the use of conventional equipment for seeded preparation, seeding, mulch application, and mulch anchoring. All grading shall be done in accordance with Standard for Land Grading (See 7th Edition Manual).
2. Topsoil shall be handled only when it is dry enough to work without damaging the soil structure. A uniform application depth of 5 inches shall be applied.
3. Work time and fertilizer into the topsoil as nearly as practical to a depth of 4 inches with a disc, spring-till harrow, or other suitable equipment.
4. High acid producing soil with a pH of 4.0 or less or containing iron (see Standard for High Acid Producing Soils for specific requirements).
5. Seeding:
a. Select a mixture from Table 4-3 in the 7th Edition Manual or use a mixture recommended by Rutgers Cooperative Extension or Natural Resources Conservation Service which is approved by the Soil Conservation District.
6. Mowing
7. Pruning trees and shrubs to remove dead or damaged branches. Remove undesirable or invasive plants to maintain integrity of the landscape and enhance quality of permanent vegetative cover.

- B. Methods and Materials: (Pinelands National Reserve)
1. Due to the low fertility of native soils and other related factors, indigenous Pinelands vegetation can be re-established and portions of other soil associations can be re-established by native plants is preferable however, where the intended land use permits or required native plant re-growth.
2. The following approaches shall be used for post-disturbance soil stabilization in the Pinelands National Reserve (PNR) in areas where it is a desire for native plant materials to be used.
3. Note: areas requiring traditional turf-type vegetation either by seeding or sodding shall be subject to the Standards for Topsoiling or Sodding and the prior portion of this Standard which detail methods for permanent vegetative stabilization.
4. PNR A-Horizon soil shall be segregated and stockpiled separately to maintain seed and root stock resources for re-vegetation efforts outlined below.
5. Seeding:
a. Uniformly apply ground limestone and fertilizer to topsoil which has been spread and firmed, according to soil test recommendations such as offered by Rutgers Co-operative Extension Soil sample analysis (http://njpest.org/soil/).
6. Mowing
7. Pruning trees and shrubs to remove dead or damaged branches. Remove undesirable or invasive plants to maintain integrity of the landscape and enhance quality of permanent vegetative cover.

- IV. STANDARD FOR PERMANENT VEGETATIVE STABILIZATION WITH MULCH ONLY
1. This practice is applicable to erosion-resistant to erosion, where the season and other conditions may not be suitable for growing an erosion-resistant cover where stabilization is needed for a short period until more soil stabilization can be applied.
2. Methods and Materials
3. Application
4. Timing
5. Mowing
6. Pruning trees and shrubs to remove dead or damaged branches. Remove undesirable or invasive plants to maintain integrity of the landscape and enhance quality of permanent vegetative cover.

- V. STANDARD FOR STABILIZATION WITH MULCH ONLY
1. This practice is applicable to erosion-resistant to erosion, where the season and other conditions may not be suitable for growing an erosion-resistant cover where stabilization is needed for a short period until more soil stabilization can be applied.
2. Methods and Materials
3. Application
4. Timing
5. Mowing
6. Pruning trees and shrubs to remove dead or damaged branches. Remove undesirable or invasive plants to maintain integrity of the landscape and enhance quality of permanent vegetative cover.

- VI. STANDARD FOR PERMANENT STABILIZATION WITH SOO
1. Where Applicable:
a. On exposed soils that have a potential for causing off-site environmental damage where an immediate, permanent vegetative cover is desired.
b. Methods and Materials:
c. Application:
d. Timing:
e. Mowing:
f. Pruning trees and shrubs to remove dead or damaged branches. Remove undesirable or invasive plants to maintain integrity of the landscape and enhance quality of permanent vegetative cover.

- VII. STANDARD FOR PERMANENT STABILIZATION WITH SOO
1. Where Applicable:
a. On exposed soils that have a potential for causing off-site environmental damage where an immediate, permanent vegetative cover is desired.
b. Methods and Materials:
c. Application:
d. Timing:
e. Mowing:
f. Pruning trees and shrubs to remove dead or damaged branches. Remove undesirable or invasive plants to maintain integrity of the landscape and enhance quality of permanent vegetative cover.

- VIII. STANDARD FOR TOPSOILING
1. This practice is applicable to erosion-resistant to erosion, where the season and other conditions may not be suitable for growing an erosion-resistant cover where stabilization is needed for a short period until more soil stabilization can be applied.
2. Methods and Materials
3. Application
4. Timing
5. Mowing
6. Pruning trees and shrubs to remove dead or damaged branches. Remove undesirable or invasive plants to maintain integrity of the landscape and enhance quality of permanent vegetative cover.

- VIII. STANDARD FOR TOPSOILING
1. This practice is applicable to erosion-resistant to erosion, where the season and other conditions may not be suitable for growing an erosion-resistant cover where stabilization is needed for a short period until more soil stabilization can be applied.
2. Methods and Materials
3. Application
4. Timing
5. Mowing
6. Pruning trees and shrubs to remove dead or damaged branches. Remove undesirable or invasive plants to maintain integrity of the landscape and enhance quality of permanent vegetative cover.

- VIII. STANDARD FOR TOPSOILING
1. This practice is applicable to erosion-resistant to erosion, where the season and other conditions may not be suitable for growing an erosion-resistant cover where stabilization is needed for a short period until more soil stabilization can be applied.
2. Methods and Materials
3. Application
4. Timing
5. Mowing
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TABLE E-1 LIMESTONE APPLICATION RATE BY SOIL TEXTURE
Table with 3 columns: SOIL TEXTURE, TONS/ACRE, and LBS/1000 SQ. FT. Rows include LOAMY SAND, LOAM, SANDY LOAM, SANDY CLAY LOAM, CLAY SAND, and CLAY LOAM.

- IX. STANDARD FOR LAND GRADING
1. This practice is applicable to erosion-resistant to erosion, where the season and other conditions may not be suitable for growing an erosion-resistant cover where stabilization is needed for a short period until more soil stabilization can be applied.
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3. Application
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5. Mowing
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- X. STANDARD FOR TREE PROTECTION DURING CONSTRUCTION
1. This practice is applicable to erosion-resistant to erosion, where the season and other conditions may not be suitable for growing an erosion-resistant cover where stabilization is needed for a short period until more soil stabilization can be applied.
2. Methods and Materials
3. Application
4. Timing
5. Mowing
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TEMPORARY VEGETATIVE STABILIZATION GRASSES, SEEDING RATES, DATES & DEPTHS
Table with 5 columns: SEED SELECTIONS, SEEDING RATE (pounds), OPTIMUM SEEDING DATE, and OPTIMUM DEPTH (inches). Rows include 1.Spring Oats, 2.Winter Barley, 3.Annual Ryegrass, 4.Winter Cereal Rye, 5.Pearl Millet, and 6.Mix(Ann or Ryegrass).

- 1. This practice is applicable to erosion-resistant to erosion, where the season and other conditions may not be suitable for growing an erosion-resistant cover where stabilization is needed for a short period until more soil stabilization can be applied.
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Table with 3 columns: SOIL TYPE / TEXTURE, and BULK DENSITY (g/cc). Rows include COARSE, MEDIUM AND FINE SANDS AND LOAMY SANDS, VERY FINE SAND AND LOAMY VERY FINE SAND, SANDY LOAM, LOAM, SANDY CLAY LOAM, CLAY LOAM, SANDY CLAY, SILTY SAND, SILT, SILTY SANDY LOAM, SILTY CLAY LOAM, CLAY, and SILT.

- 1. This practice is applicable to erosion-resistant to erosion, where the season and other conditions may not be suitable for growing an erosion-resistant cover where stabilization is needed for a short period until more soil stabilization can be applied.
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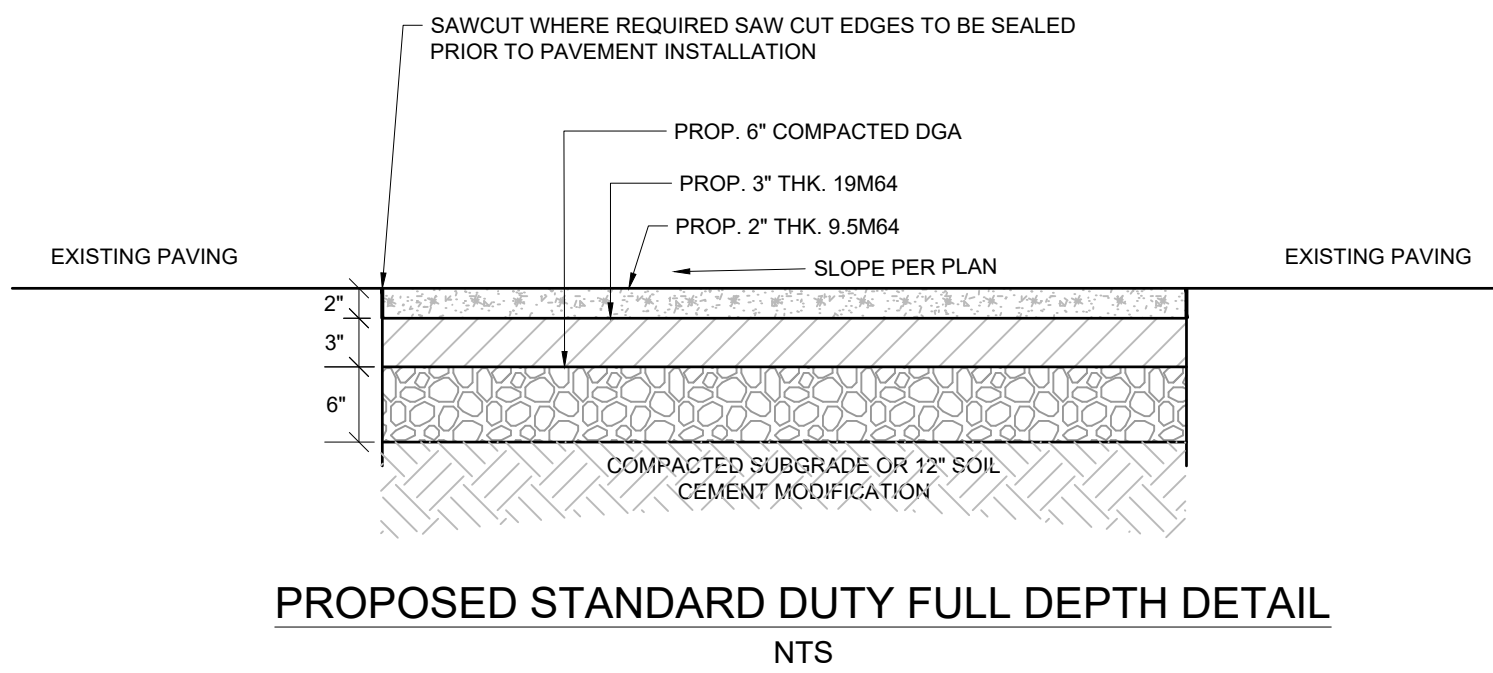
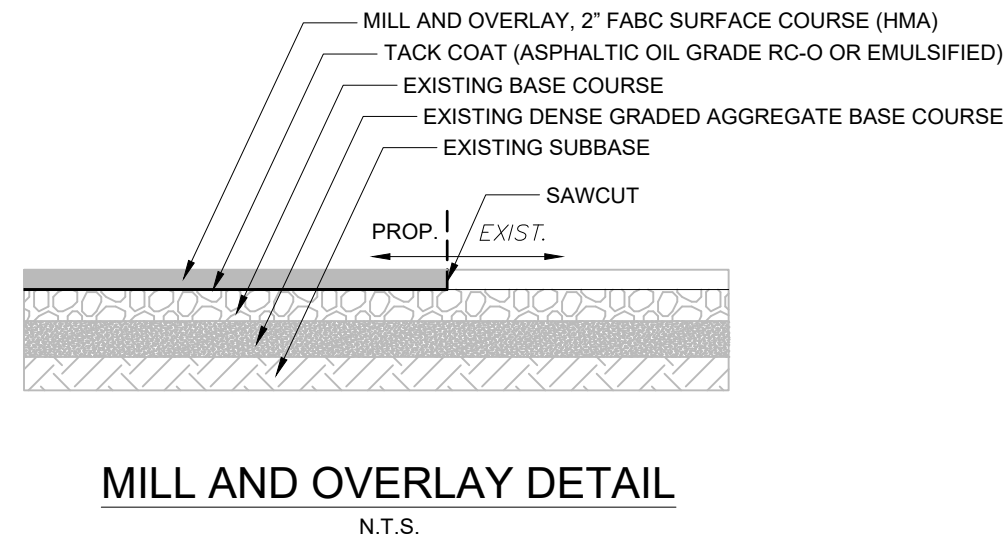
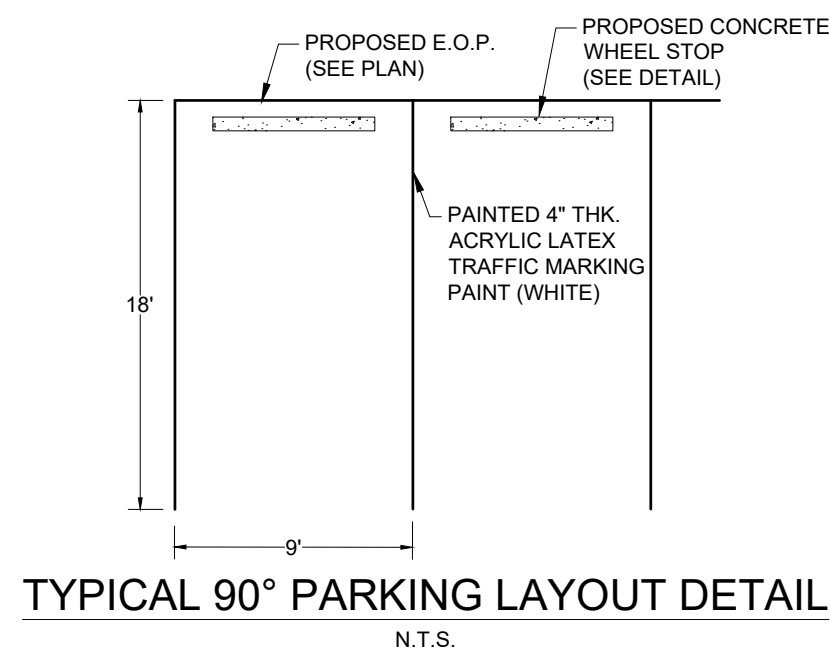
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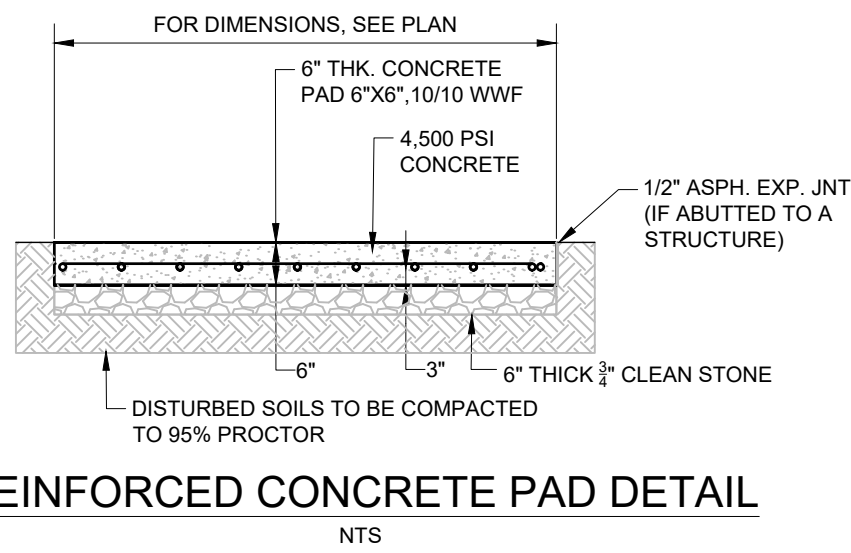
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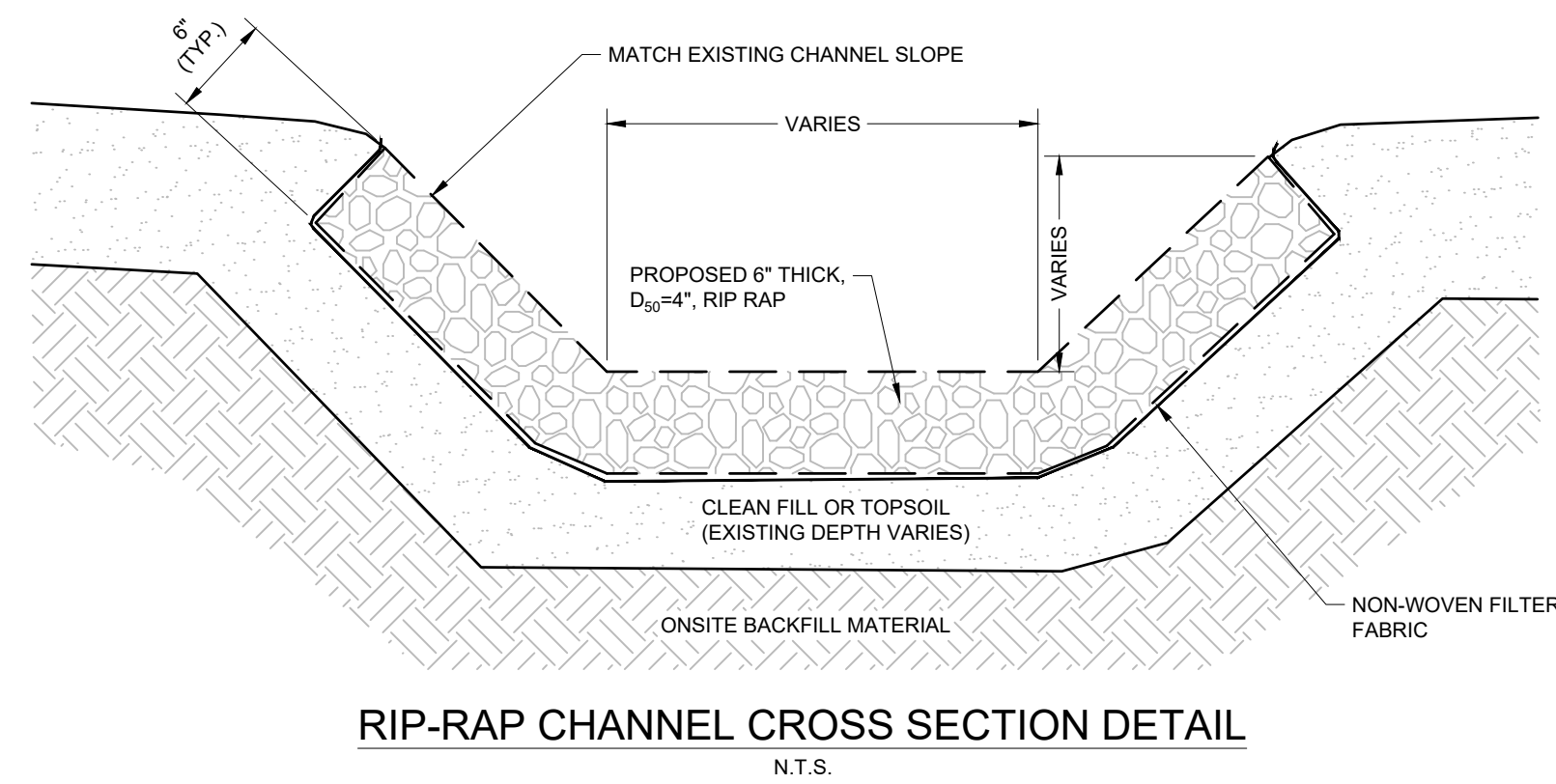


PROPOSED STANDARD DUTY FULL DEPTH DETAIL  
N.T.S.

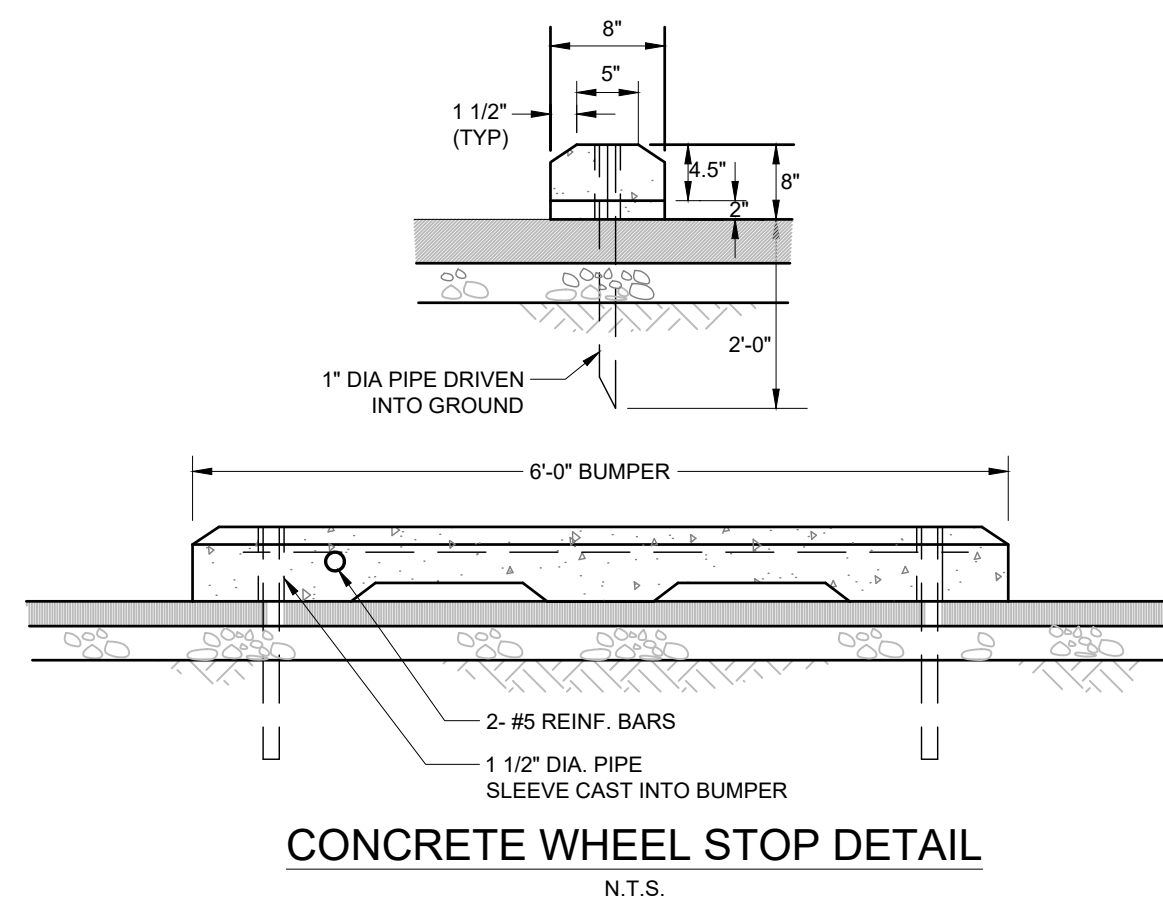
- NOTE:
1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NJDOT STANDARD FOR ROAD AND BRIDGE CONSTRUCTION, 2019 REVISION.
  2. COMPACTED SUBGRADE AND DGA TO BE MINIMUM 95% PROCTOR



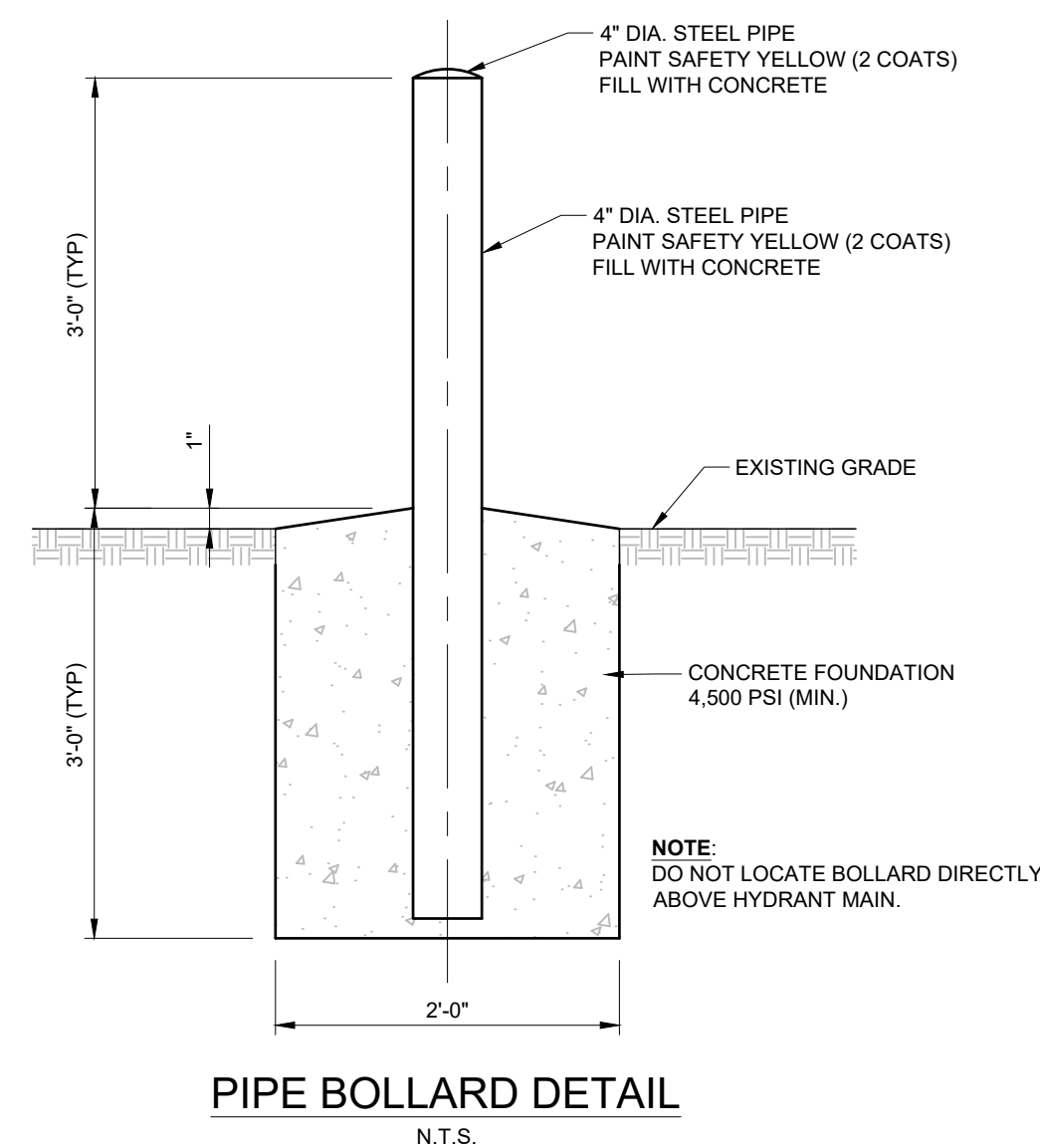
REINFORCED CONCRETE PAD DETAIL  
N.T.S.



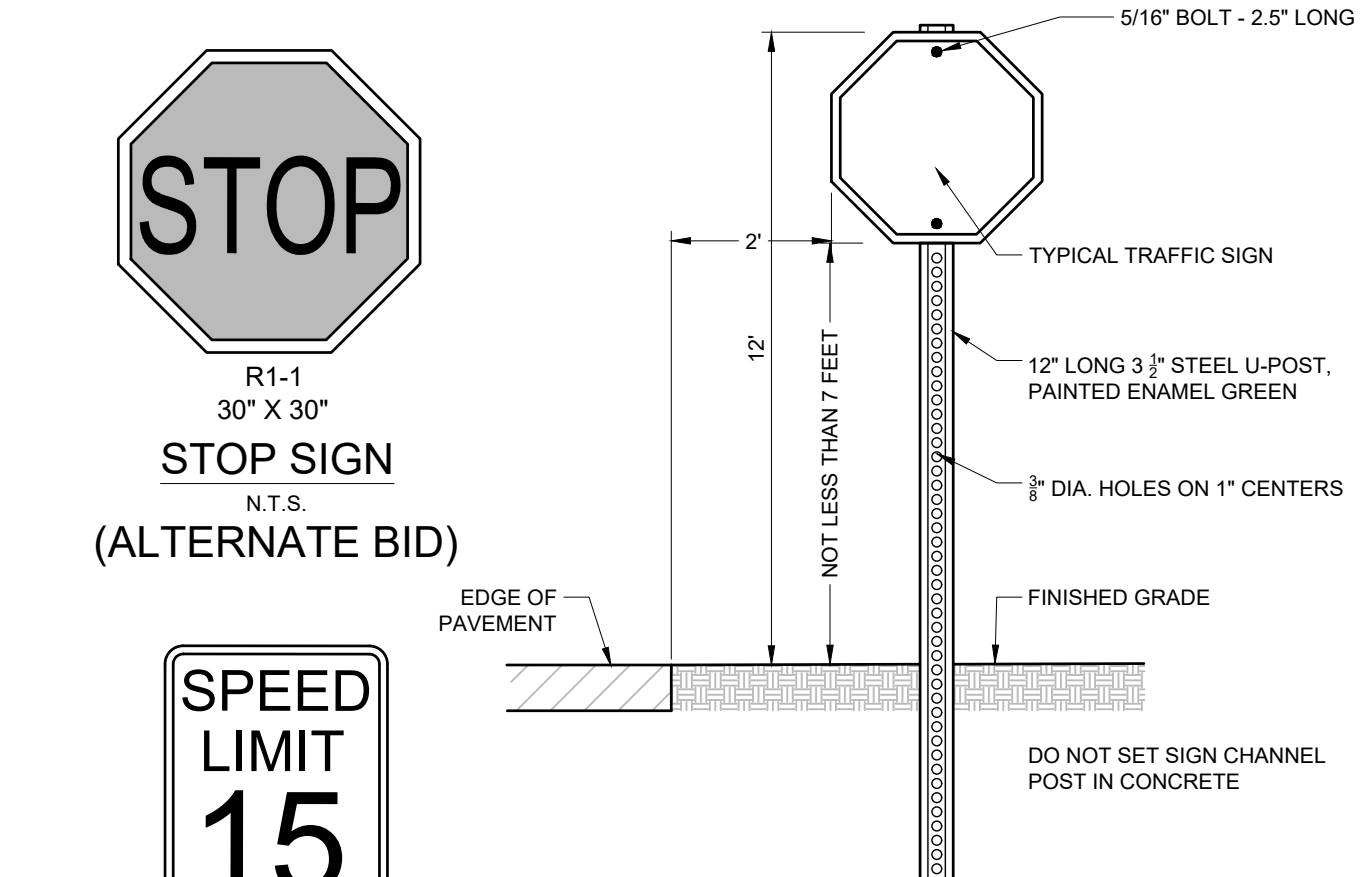
RIP-RAP CHANNEL CROSS SECTION DETAIL  
N.T.S.



CONCRETE WHEEL STOP DETAIL  
N.T.S.



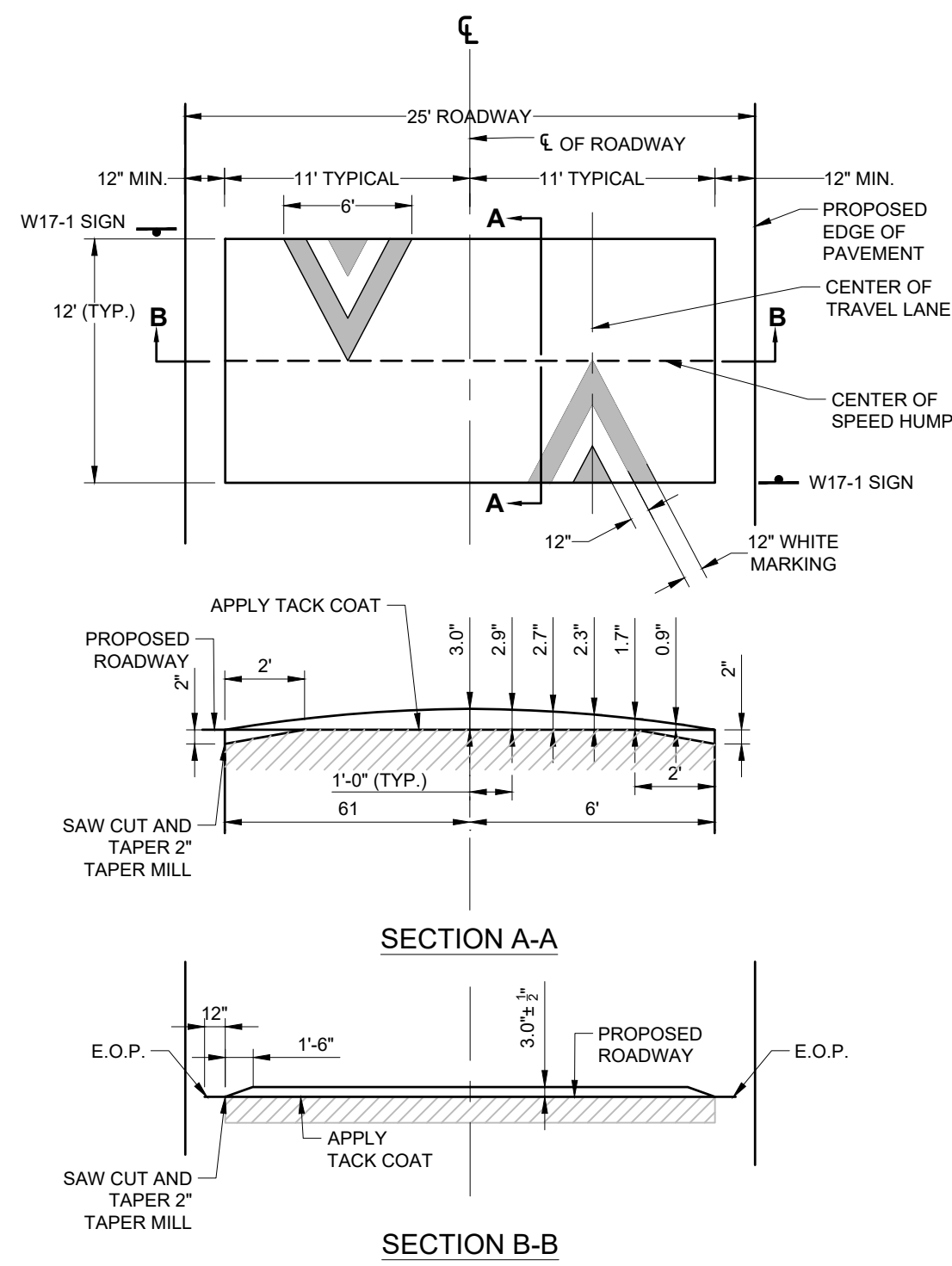
PIPE BOLLARD DETAIL  
N.T.S.



- NOTES:
1. ALL REGULATORY AND WARNINGS SIGNS SHALL BE HIGH INTENSITY REFLECTIVE SHEETING.
  2. ALL OTHER SIGNS SHALL BE ENGINEER GRADE SHEETING.
  3. ALL SIGNS AFFECTING COUNTY ROAD TRAFFIC SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC DEVICES", LATEST EDITION.
  4. SIGN POSTS SHALL BE 30x30.



NO PARKING ANY TIME  
R7-D  
12"x18"  
N.T.S.  
(ALTERNATE BID)



SPEED HUMP DETAIL  
N.T.S.  
(ALTERNATE BID)

ALL VEHICLES  
PARKED OR  
STOPPED ON  
THESE PREMISES  
ARE SUBJECT  
TO SEARCH

12"x18"  
N.T.S.  
SUBJECT TO SEARCH SIGN  
(ALTERNATE BID)

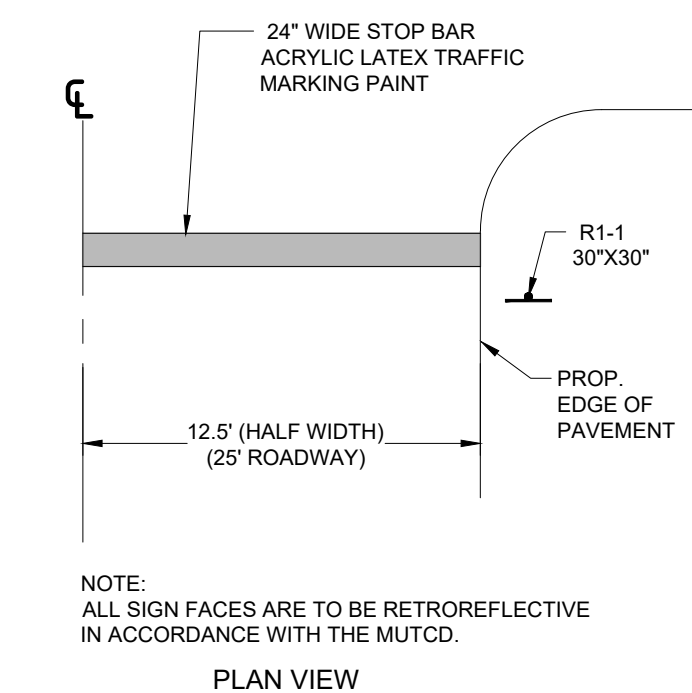


SPEED HUMP  
W17-1  
Speed Hump  
N.T.S.  
SPEED HUMP SIGN  
(ALTERNATE BID)

Sign image from the Manual of Traffic Signs - <http://www.trafficdesign.us/>  
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CONSTRUCTION TRAFFIC SIGN  
N.T.S.



STOP BAR DETAIL  
N.T.S.  
(ALTERNATE BID)

*Carolyn A. Feigin*  
CAROLYN A. FEIGIN  
PROFESSIONAL ENGINEER  
NEW JERSEY LICENSE NO. 24G5M-47200

ADAMS, REHMANN & HEGGAN  
ASSOCIATES, INC.  
215 BELLEVUE AVENUE  
PO BOX 579  
HAMMONTON, NJ 08037-2019  
TEL (609) 541-0482  
FAX (609) 541-8909

ARH ASSOCIATES  
CERTIFICATE OF AUTHORIZATION  
NJ No. 24G42797300, DE No. 2187

CONSTRUCTION DETAILS  
FOR  
SALEM COUNTY CAREER & TECHNICAL HIGH SCHOOL  
BLOCK 6, LOTS 1 & 2.01  
WELDING ROOM ADDITION AND REPAVING & RESURFACING PLANS  
MANNINGTON TOWNSHIP, SALEM COUNTY, NEW JERSEY

DATE: NOVEMBER 03, 2023  
scale: As Shown  
drawn by: P.T.  
checked: J.M.B.  
proj. no.: 5051571

DRAWING LOCATION  
LAST DATE SAVED  
LAST SAVE BY

W:\FILEPROJECTS\5051571\ENGINEERING\Working Building  
Plan\5051571-DETAILED.rvt  
11/02/2023  
jha