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TITLE: **AERIAL MAP**

PROJECT: **B9 SCHOOLHOUSE OWNER LLC  
 PROPOSED WAREHOUSES**  
 BLOCK 514, LOTS 1, 2, 3, & 60  
 96-104 SCHOOLHOUSE ROAD  
 TOWNSHIP OF FRANKLIN, SOMERSET COUNTY, NEW JERSEY

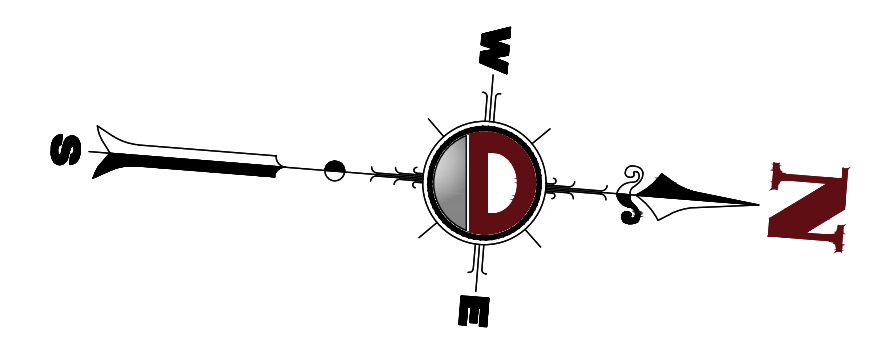
JOB No: 3566-99-005      DATE: 04/01/2022  
 DRAWN BY: KMI      SCALE (H) 1"=100'  
 DESIGNED BY: KCK      (V)  
 CHECKED BY: JMS      SHEET No:  
 BY:      DATE:      COMMENTS:      **2**  
 OF 33

**JOSHUA M. SEWALD**      **KYLE C. KAVINSKI**  
 PROFESSIONAL ENGINEER      PROFESSIONAL ENGINEER  
 NEW JERSEY LICENSE No. 52908      NEW JERSEY LICENSE No. 52985

**PROTECT YOURSELF**  
 ALL STATE ENGINEERS MUST BE LICENSED. CHECK THE QUALITY OF YOUR ENGINEER'S LICENSE. BE AWARE OF ANY CHANGES TO THE LICENSE. BE AWARE OF ANY CHANGES TO THE LICENSE. BE AWARE OF ANY CHANGES TO THE LICENSE.

Project: 04/16/23 - 2:15 PM, By: owner, Product: Ver: 24.06 (US Teas), Plot: C:\Users\owner\AppData\Local\Temp\Project\3566-99-005-005\franklin-schoolhouse\_40\Draw\Site\Plan\A\3566-99-005-005-005.dwg, --> 02\_AERIAL\_MAP





**LIMIT OF DISTURBANCE**

**DEMOLITION NOTES**

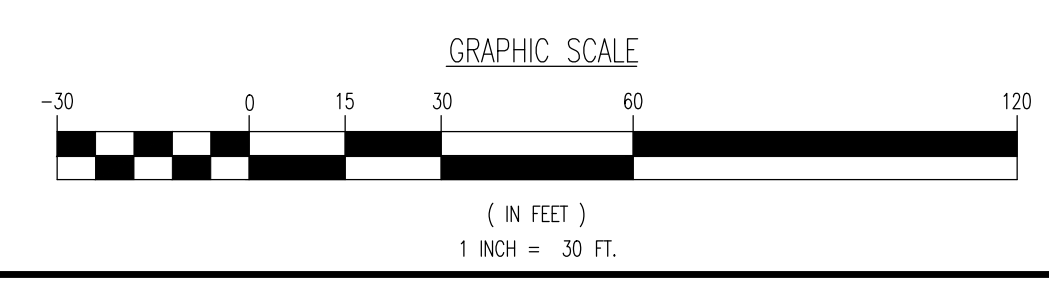
1. ALL DEMOLITION ACTIVITIES ARE TO BE PERFORMED IN STRICT ADHERENCE TO ALL FEDERAL, STATE AND LOCAL REGULATIONS.
2. PROCEED WITH DEMOLITION IN A SYSTEMATIC MANNER, FROM THE TOP OF THE STRUCTURE(S) TO THE GROUND.
3. COMPLETE DEMOLITION WORK ABOVE EACH FLOOR OR TIER BEFORE DISTURBING ANY OF THE SUPPORTING MEMBERS OF THE LOWER LEVELS.
4. DEMOLISH CONCRETE AND MASONRY IN SMALL SECTIONS.
5. REMOVE STRUCTURAL FRAMING MEMBERS AND LOWER THEM TO THE GROUND BY MEANS OF HOISTS, DERRICKS OR OTHER SUITABLE METHODS.
6. BREAK UP CONCRETE SLABS-ON-GRADE, UNLESS OTHERWISE DIRECTED BY OWNER.
7. LOCATE DEMOLITION EQUIPMENT THROUGHOUT THE STRUCTURE AND REMOVE MATERIALS SO AS TO NOT IMPOSE EXCESSIVE LOADS ON SUPPORTING WALLS, FLOORS, OR FRAMING.
8. PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING AND SUPPORTS TO PREVENT MOVEMENT, SETTLEMENT OR COLLAPSE OF STRUCTURES TO BE DEMOLISHED (AND ADJACENT FACILITIES, IF APPLICABLE).
9. DEMOLISH AND REMOVE ALL FOUNDATION WALLS, FOOTINGS AND OTHER MATERIALS WITHIN THE AREA OF THE DESIGNATED FUTURE BUILDING. ALL OTHER FOUNDATION SYSTEMS, INCLUDING BASEMENTS, SHALL BE DEMOLISHED TO A DEPTH OF NOT LESS THAN ONE FOOT BELOW PROPOSED FINISH FLOOR OR BREAK BASEMENT FLOOR SLABS. SEAL ALL OPEN UTILITY LINES WITH CONCRETE. CONTRACTOR TO REPAIR STRUCTURE PRIOR TO DEMOLITION TO DETERMINE IF BASEMENT, CRAWL SPACE OR ANY SUB-STRUCTURE EXIST. ANY SUB-STRUCTURE, INCLUDING BASEMENTS SHALL BE REMOVED IN ITS ENTIRETY OR AS DIRECTED BY OWNER.
10. ERECT AND MAINTAIN COVERED PASSAGEWAYS IN ORDER TO PROVIDE SAFE PASSAGE FOR PERSONS AROUND THE AREA OF DEMOLITION. CONDUCT ALL DEMOLITION OPERATIONS IN A MANNER THAT WILL PREVENT DAMAGE AND PERSONAL INJURY TO STRUCTURES, ADJACENT BUILDINGS AND ALL PERSONS.
11. RETRAIN FROM USING ANY EXPLOSIVES WITHOUT PRIOR WRITTEN CONSENT OF OWNER AND APPLICABLE GOVERNMENTAL AUTHORITIES.
12. CONDUCT DEMOLITION SERVICES IN SUCH A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS AND OTHER ADJACENT FACILITIES. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER OCCUPIED FACILITIES WITHOUT PRIOR WRITTEN PERMISSION OF OWNER AND ANY APPLICABLE GOVERNMENTAL AUTHORITIES. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS, IF REQUIRED BY APPLICABLE GOVERNMENTAL REGULATIONS.
13. USE WATERING, TEMPORARY ENCLOSURES AND OTHER SUITABLE METHODS, AS NECESSARY TO LIMIT THE AMOUNT OF DUST AND DEBRIS BEING AND SCATTERING IN THE AIR. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF ALL DUST AND DEBRIS CAUSED BY THE DEMOLITION OPERATIONS. RETURN ALL ADJACENT AREAS TO THE CONDITIONS EXISTING PRIOR TO THE START OF WORK.
14. ACCOMPLISH AND PERFORM THE DEMOLITION IN SUCH A MANNER AS TO PREVENT THE UNAUTHORIZED ENTRY OF PERSONS AT ANY TIME.
15. COMPLETELY FILL BELOW GRADE AREAS AND VOIDS RESULTING FROM THE DEMOLITION OF STRUCTURES AND FOUNDATIONS WITH SOIL MATERIALS IN ACCORDANCE WITH THE GEOTECHNICAL REPORT CONSISTING OF STONE, GRAVEL AND SMALL TREES FROM DEBRIS, TRASH, FROZEN MATERIALS, ROOTS AND OTHER ORGANIC MATERIALS. STONES USED WILL NOT BE LARGER THAN 6 INCHES IN DIMENSION. MATERIAL FROM DEMOLITION MAY NOT BE USED AS FILL. PROTECT TO PLACEMENT OF FILL MATERIALS. UNDERTAKE ALL NECESSARY ACTION IN ORDER TO ENSURE THAT AREAS TO BE FILLED ARE FREE OF STANDING WATER, FROZEN MATERIAL, TRASH, DEBRIS. PLACE FILL MATERIALS IN HORIZONTAL LAYERS NOT EXCEEDING 6 INCHES IN THICKNESS AND COMPACT EACH LAYER AT PLACEMENT TO SOIL OPTIMUM DENSITY. GRADE THE SURFACE TO MEET ADJACENT CONTOURS AND TO PROVIDE SURFACE DRAINAGE.
16. REMOVE FROM THE DESIGNATED SITE, AT THE EARLIEST POSSIBLE TIME, ALL DEBRIS, RUBBER, SALVAGEABLE ITEMS, HAZARDOUS AND COMBUSTIBLE SERVICES. REMOVED MATERIALS MAY NOT BE STORED, SOLD OR BURNED ON THE SITE. REMOVAL OF HAZARDOUS AND COMBUSTIBLE MATERIALS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE PROCEDURES AS AUTHORIZED BY THE FIRE DEPARTMENT OR OTHER APPROPRIATE REGULATORY AGENCIES AND AUTHORITIES.
17. DISCONNECT, SHUT OFF AND SEAL IN CONCRETE ALL UTILITIES SERVING THE STRUCTURE(S) TO BE DEMOLISHED BEFORE THE COMMENCEMENT OF THE DESIGNATED DEMOLITION WORK FOR POSITIVE ALL UTILITY DRAINAGE AND SANITARY LINES AND PROTECT ALL ACTIVE LINES. CLEARLY IDENTIFY BEFORE THE COMMENCEMENT OF DEMOLITION SERVICES THE REQUIRED INTERRUPTION OF ACTIVE SYSTEMS THAT MAY AFFECT OTHER PARTIES, AND NOTIFY ALL APPLICABLE UTILITY COMPANIES TO ENSURE THE CONTINUATION OF SERVICE.
18. THIS DEMOLITION PLAN IS INTENDED TO IDENTIFY THOSE EXISTING CONDITIONS WHICH ARE TO BE REMOVED. IT IS NOT INTENDED TO PROVIDE DIRECTION OTHER THAN THAT ALL PROCEDURES ARE TO BE IN ACCORDANCE WITH STATE, FEDERAL, LOCAL AND JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS NECESSARY.

**NOTES**

1. IN ACCORDANCE WITH STATE LAW, THE CONTRACTOR SHALL BE RESPONSIBLE TO CALL THE BOARD OF PUBLIC UTILITIES ONE CALL DAMAGE PROTECTION SYSTEM OR UTILITY MARK OUT IN ADVANCE OF ANY EXCAVATION.
2. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING SITE IMPROVEMENTS AND UTILITIES. ALL DISCREPANCIES SHALL BE IDENTIFIED TO THE ENGINEER IN WRITING.
3. ALL EXISTING UTILITIES TO BE ABANDONED SHALL BE DISCONNECTED AND CAPPED AT THE MAIN FOR WATER, AT THE CLEAN-OUT FOR SEWER AND THE SHUT-OFF VALVE OR MAN FOR GAS IN ACCORDANCE WITH MUNICIPAL AND LOCAL UTILITY REQUIREMENTS.
4. ALL EXISTING DEBRIS SHALL BE REMOVED BY CONTRACTOR IN ACCORDANCE WITH MUNICIPAL AND LOCAL UTILITY COMPANY REQUIREMENTS.

**DEMOLITION PLAN LEGEND**

	PROPOSED LIMIT OF DISTURBANCE LINE
	PROPOSED TREE PROTECTION FENCE LINE
	EXISTING IMPROVEMENTS TO BE REMOVED UNLESS OTHERWISE NOTED
	TREES TO REMAIN
	TREES TO BE REMOVED
	TREES TO BE TRANSPLANTED/RELOCATED



**TREE REPLACEMENT REQUIREMENTS (S222-5.1)**

Existing Trees to be Removed (N DBH)	# Existing Trees	Replacement Requirement	# of Replacement Trees (2.5" Caliper Deciduous or 6" Evergreen)
4"-15"	365	0.8	292
Less Than 16"	64	3	192
Less Than 21"	48	4	192
Less Than 24"	14	5	70
Less Than 27"	16	6	96
Less Than 29"	6	7	42
Less Than 31"	4	8	32
Less Than 33"	5	9	45
Less Than 35"	0	10	0
Less Than 37"	5	11	55
Less Than 39"	0	12	0
Less Than 40"	0	13	0
Less Than 41"	0	14	0
41" or Greater	2	15	30
TOTAL	529		1046

**PROP. TREE PROTECTION FENCE**

**MATCHLINE 'B'**

Project: 06/16/23 - 2:15 PM, By: owner, File: \\network\users\jms\Projects\3526\3526.dwg, Title: Demolition Tree Management Plan B, Date: 06/16/23, Rev: 1, Description: REV: SUBMITTAL, User: JMS, Date: 06/16/23, Rev: 1, Description: REV: REV. NADP WELLS PLAN, User: JMS, Date: 06/16/23, Rev: 1, Description: Comments

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**DEMOLITION TREE MANAGEMENT PLAN B**

PROJECT: **B9 SCHOOLHOUSE OWNER LLC**  
**PROPOSED WAREHOUSES**  
BLOCK 514, LOTS 1, 2, 3, & 60  
96-104 SCHOOLHOUSE ROAD  
TOWNSHIP OF FRANKLIN, SOMERSET COUNTY, NEW JERSEY

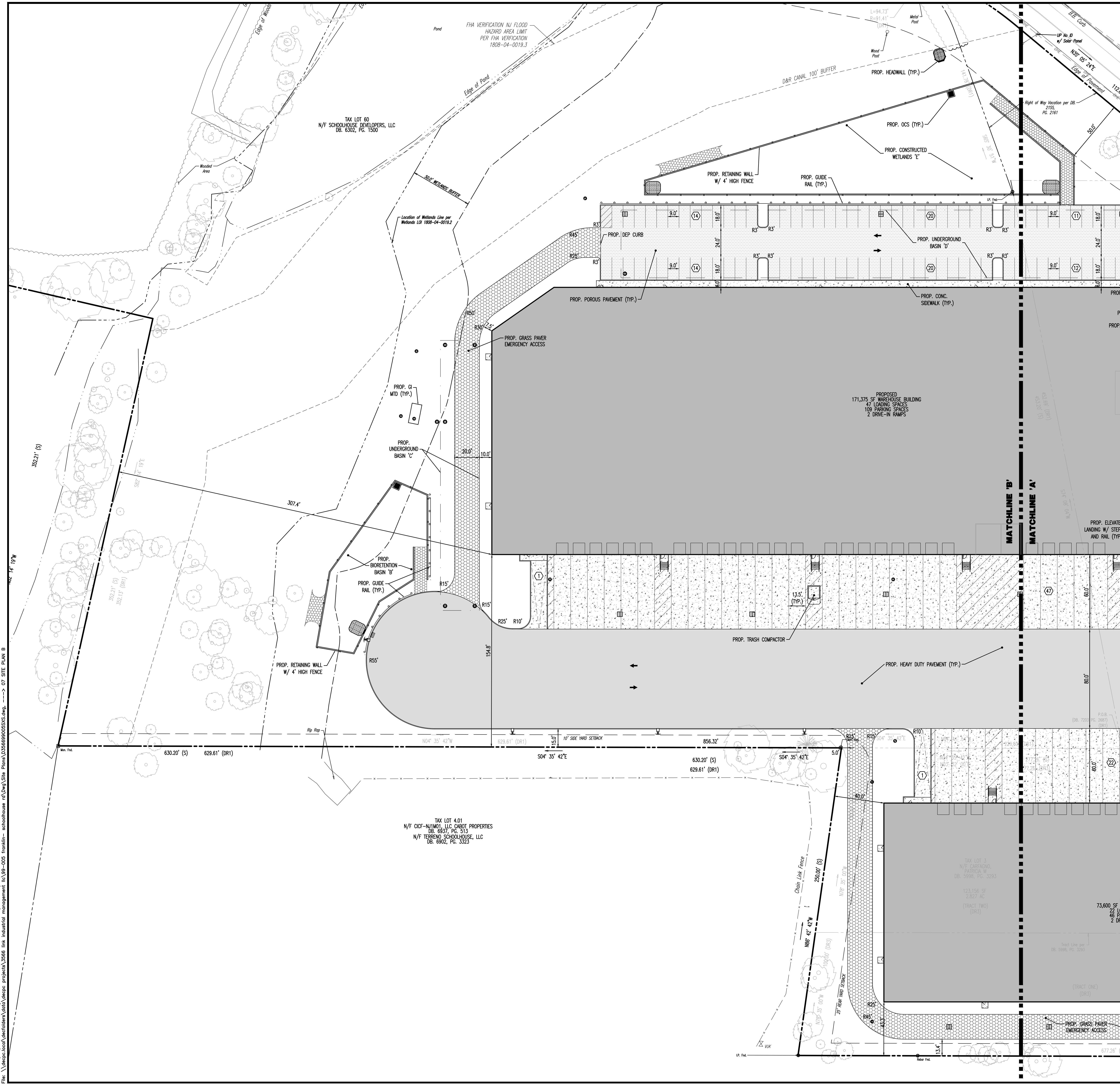
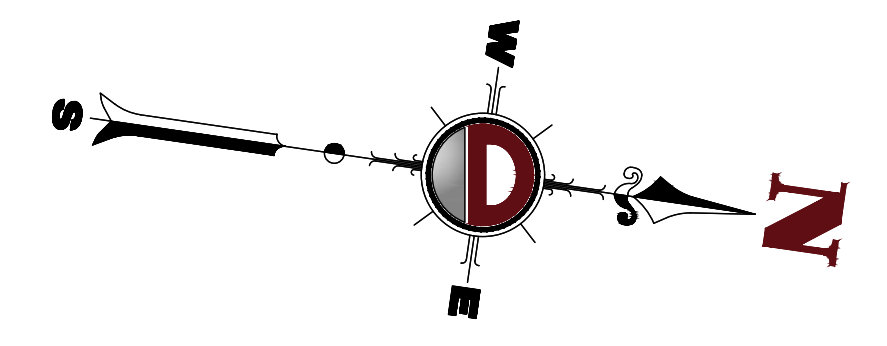
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DESIGNED BY: KCK | (V)  
CHECKED BY: JMS | SHEET No: **4**  
OF 33

**JOSHUA M. SEWALD** | **KYLE C. KAVINSKI**  
PROFESSIONAL ENGINEER | PROFESSIONAL ENGINEER  
NEW JERSEY LICENSE No. 52908 | NEW JERSEY LICENSE No. 52985

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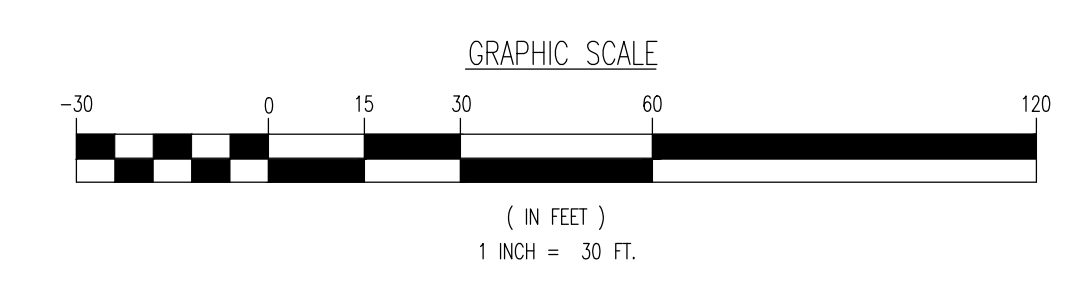




**PAVEMENT LEGEND**

	PROPOSED STANDARD DUTY ASPHALT PAVEMENT
	PROPOSED POROUS PAVEMENT
	PROPOSED HEAVY DUTY ASPHALT PAVEMENT
	PROPOSED HEAVY DUTY CONCRETE PAVEMENT
	PROPOSED STANDARD DUTY CONCRETE PAVEMENT
	PROPOSED GRASS PAVERS

SEE SHEET 05 OF 33 FOR GENERAL NOTES



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**SITE PLAN B**  
 PROPOSED WAREHOUSES

PROJECT: B9 SCHOOLHOUSE OWNER LLC  
 BLOCK 514, LOTS 1, 2, 3, & 60  
 96-104 SCHOOLHOUSE ROAD  
 TOWNSHIP OF FRANKLIN, SOMERSET COUNTY, NEW JERSEY

JOB No: 3566-99-005 DATE: 04/01/2022  
 DRAWN BY: CAM SCALE (H) 1"=30'  
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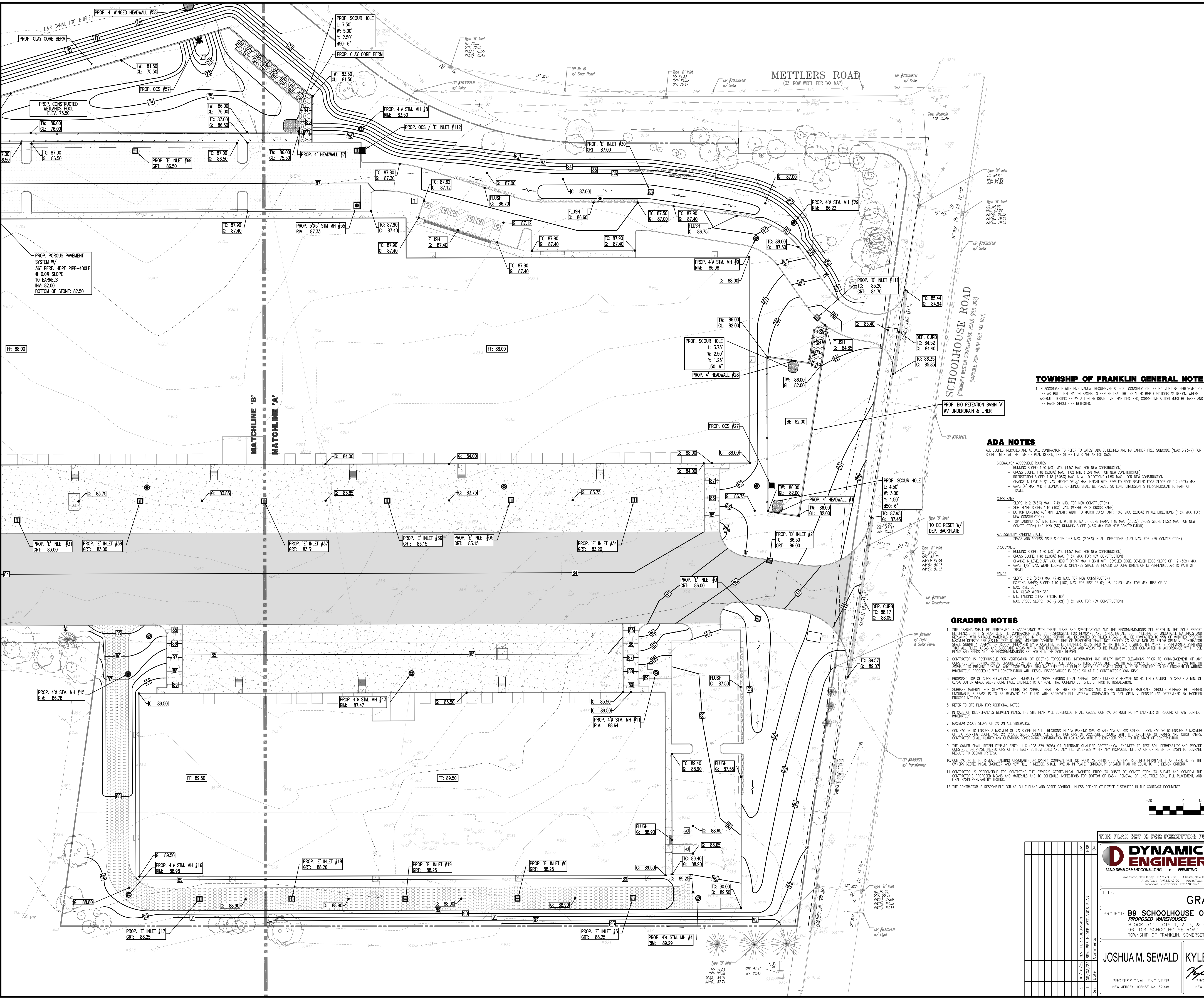
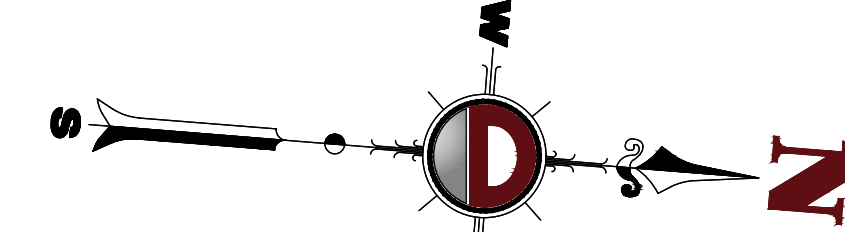
**JOSHUA M. SEWALD** PROFESSIONAL ENGINEER  
 NEW JERSEY LICENSE No. 52908

**KYLE C. KAVINSKI** PROFESSIONAL ENGINEER  
 NEW JERSEY LICENSE No. 52985

**PROTECT YOURSELF**  
 ALL STATE ENGINE REGULATIONS  
 APPLICABLE TO THIS PLAN SET  
 PLEASE DO NOT SIGN OR SEAL  
 ANY OTHER SHEETS IN THIS SET  
 FOR STATE REQUIREMENTS VISIT  
 WWW.CALEBT.COM

7 OF 33  
 Rev. # 2

Project: 06/16/23 - 2:16 PM, By: owner, Product: Var: 24.00 (LMS Tech)  
 File: \\server\Users\owner\3050\3050.mxd, Industrial Management, 10-99-005, Franklin - schoolhouse, 40 (Dwg) Site, Plans\356699005\356699005.dwg, 07 SITE PLAN B



**GRADING/UTILITY GRAPHIC LEGEND**

---	PROPERTY LINE (PARCEL IN QUESTION)
---	OFF-SITE PROPERTY LINE
- - -	EXIST. CABLE LINE
- - -	PROP. CABLE LINE
- - -	EXIST. ELECTRIC LINE
- - -	PROP. ELECTRIC LINE
- - -	EXIST. FIBER OPTIC LINE
- - -	PROP. FIBER OPTIC LINE
- - -	EXIST. GAS LINE
- - -	PROP. GAS LINE
- - -	EXIST. OVERHEAD WIRES
- - -	PROP. OVERHEAD WIRES
- - -	EXIST. TELEPHONE LINE
- - -	PROP. TELEPHONE LINE
- - -	EXIST. WATER LINE
- - -	PROP. WATER LINE
- - -	EXIST. UNDERGROUND ELEC./TELE. SERVICE (NO. & SIZE OF CONDUITS NOT DEFINED)
- - -	PROP. UNDERGROUND ELEC./TELE. SERVICE (NO. & SIZE OF CONDUITS NOT DEFINED)
- - -	EXIST. SANITARY SEWER LINE
- - -	PROP. SANITARY SEWER LINE
- - -	EXIST. STORM DRAIN LINE
- - -	PROP. STORM DRAIN LINE
- - -	EXIST. MAJOR CONTOUR & ELEVATION
- - -	PROP. MAJOR CONTOUR & ELEVATION
- - -	EXIST. FINISH GRADE CONTOUR & ELEVATION
- - -	PROP. FINISH GRADE CONTOUR & ELEVATION
- - -	EXIST. SPOT ELEVATIONS
- - -	PROP. SPOT ELEVATIONS
- - -	EXIST. TOP OF CURB ELEV.
- - -	PROP. TOP OF CURB ELEV.
- - -	EXIST. FINISH FLOOR ELEV.
- - -	PROP. FINISH FLOOR ELEV.
- - -	EXIST. GARAGE FLOOR ELEV.
- - -	PROP. GARAGE FLOOR ELEV.
- - -	EXIST. GRADE SPOT ELEV.
- - -	PROP. GRADE SPOT ELEV.
- - -	EXIST. TOP OF CURB & FINISHED GRADE ELEV.
- - -	PROP. TOP OF CURB & FINISHED GRADE ELEV.
- - -	EXIST. FINISHED FLOOR ELEV.
- - -	PROP. FINISHED FLOOR ELEV.
- - -	EXIST. TOP OF WALL & FINISHED GRADE @ LOW SIDE OF RETAINING WALL (TO BE ESTABLISHED BY WALL DESIGNER)
- - -	PROP. TOP OF WALL & FINISHED GRADE @ LOW SIDE OF RETAINING WALL (TO BE ESTABLISHED BY WALL DESIGNER)
- - -	EXIST. TOP OF EXTENDED CURB, (OH) FINISHED FLOOR @ HIGH SIDE OF EXTENDED CURB @ (H) FINISHED GRADE @ LOW SIDE OF EXTENDED CURB
- - -	PROP. TOP OF EXTENDED CURB, (OH) FINISHED FLOOR @ HIGH SIDE OF EXTENDED CURB @ (H) FINISHED GRADE @ LOW SIDE OF EXTENDED CURB
- - -	EXIST. GUY WIRE
- - -	PROP. GUY WIRE
- - -	EXIST. LIGHT POLE
- - -	PROP. LIGHT POLE
- - -	EXIST. BUILDING LIGHT
- - -	PROP. BUILDING LIGHT
- - -	EXIST. SHED BOX LIGHT
- - -	PROP. SHED BOX LIGHT
- - -	EXIST. COBRA LIGHT POLE
- - -	PROP. COBRA LIGHT POLE
- - -	EXIST. TRAFFIC SIGNAL POLE
- - -	PROP. TRAFFIC SIGNAL POLE
- - -	EXIST. MANHOLE
- - -	PROP. MANHOLE
- - -	EXIST. "X" INLET
- - -	PROP. "X" INLET
- - -	EXIST. "E" INLET
- - -	PROP. "E" INLET
- - -	EXIST. YARD INLET
- - -	PROP. YARD INLET
- - -	EXIST. FLARED END SECTION
- - -	PROP. FLARED END SECTION
- - -	EXIST. HEADWALL
- - -	PROP. HEADWALL
- - -	EXIST. MONITORING TEST PIT LOCATION
- - -	PROP. MONITORING TEST PIT LOCATION
- - -	EXIST. FIRE HYDRANT
- - -	PROP. FIRE HYDRANT
- - -	EXIST. WATER VALVE
- - -	PROP. WATER VALVE
- - -	EXIST. GAS VALVE
- - -	PROP. GAS VALVE
- - -	EXIST. GAS METER
- - -	PROP. GAS METER
- - -	EXIST. ELECTRIC METER
- - -	PROP. ELECTRIC METER
- - -	EXIST. ELECTRIC BOX
- - -	PROP. ELECTRIC BOX
- - -	EXIST. CLEAN OUT
- - -	PROP. CLEAN OUT
- - -	EXIST. WELL
- - -	PROP. WELL
- - -	EXIST. WATER SHAFT OFF VALVE
- - -	PROP. WATER SHAFT OFF VALVE
- - -	EXIST. TELEPHONE BOX
- - -	PROP. TELEPHONE BOX
- - -	EXIST. CABLE TV BOX
- - -	PROP. CABLE TV BOX
- - -	EXIST. UTILITY POLE
- - -	PROP. UTILITY POLE
- - -	EXIST. WATER VALVE
- - -	PROP. WATER VALVE
- - -	EXIST. STORM CLEANOUT
- - -	PROP. STORM CLEANOUT
- - -	EXIST. SANITARY CLEANOUT
- - -	PROP. SANITARY CLEANOUT
- - -	EXIST. AREA LIGHT
- - -	PROP. AREA LIGHT
- - -	EXIST. OUTLET CONTROL STRUCTURE
- - -	PROP. OUTLET CONTROL STRUCTURE
- - -	EXIST. DRAINAGE MANHOLE
- - -	PROP. DRAINAGE MANHOLE
- - -	EXIST. SANITARY SEWER MANHOLE
- - -	PROP. SANITARY SEWER MANHOLE
- - -	EXIST. "X" INLET
- - -	PROP. "X" INLET
- - -	EXIST. "E" INLET
- - -	PROP. "E" INLET
- - -	EXIST. "Y" INLET
- - -	PROP. "Y" INLET
- - -	EXIST. YARD INLET
- - -	PROP. YARD INLET
- - -	EXIST. FLARED END SECTION
- - -	PROP. FLARED END SECTION
- - -	EXIST. HEADWALL
- - -	PROP. HEADWALL

**TOWNSHIP OF FRANKLIN GENERAL NOTE**

1. IN ACCORDANCE WITH BMP MANUAL REQUIREMENTS, POST-CONSTRUCTION TESTING MUST BE PERFORMED ON THE AS-BUILT INFILTRATION BASINS TO ENSURE THAT THE INSTALLED BMP FUNCTIONS AS DESIGN. WHERE AS-BUILT TESTING SHOWS A LONGER DRAIN TIME THAN DESIGNED, CORRECTIVE ACTION MUST BE TAKEN AND THE BASIN SHOULD BE RETESTED.

**ADA NOTES**

ALL SLOPES INDICATED ARE ACTUAL. CONTRACTOR TO REFER TO LATEST ADA GUIDELINES AND NJ BARRIER FREE SUBCODE (NJAC 5:23-7) FOR SLOPE LIMITS. AT THE TIME OF PLAN DESIGN, THE SLOPE LIMITS ARE AS FOLLOWS:

**SIDEWALKS/ACCESSIBLE SOILS**

- RUNNING SLOPE: 1:20 (5%) MAX. (4.5% MAX. FOR NEW CONSTRUCTION)
- CROSS SLOPE: 1:48 (2.08%) MAX. (1.5% MAX. FOR NEW CONSTRUCTION)
- INTERSECTION SLOPE: 1:48 (2.08%) MAX. IN ALL DIRECTIONS (1.5% MAX. FOR NEW CONSTRUCTION)
- CHANGE IN LEVELS: 1/2" MAX. HEIGHT OR 1/2" MAX. HEIGHT WITH BEVELED EDGE BEVELED EDGE SLOPE OF 1:2 (50%) MAX.
- GAPS: 3/4" MAX. WIDTH ELONGATED OPENINGS SHALL BE PLACED SO LONG DIMENSION IS PERPENDICULAR TO PATH OF TRAVEL.

**CURB RAMP**

- SLOPE: 1:12 (8.33%) MAX. (7.4% MAX. FOR NEW CONSTRUCTION)
- SIDE FLARE SLOPE: 1:10 (10%) MAX. (WHERE FEEDS CROSS RAMP)
- BOTTOM LANDING: 48" MIN. LENGTH; WIDTH TO MATCH CURB RAMP; 1:48 MAX. (2.08%) IN ALL DIRECTIONS (1.5% MAX. FOR NEW CONSTRUCTION)
- TOP LANDING: 36" MIN. LENGTH; WIDTH TO MATCH CURB RAMP; 1:48 MAX. (2.08%) CROSS SLOPE (1.5% MAX. FOR NEW CONSTRUCTION) AND 1:20 (5%) RUNNING SLOPE (4.5% MAX. FOR NEW CONSTRUCTION)

**ACCESSIBILITY PARKING SPACES**

- SPACE AND ACCESSIBLE SLOPE: 1:48 MAX. (2.08%) IN ALL DIRECTIONS (1.5% MAX. FOR NEW CONSTRUCTION)

**DRISWALKS**

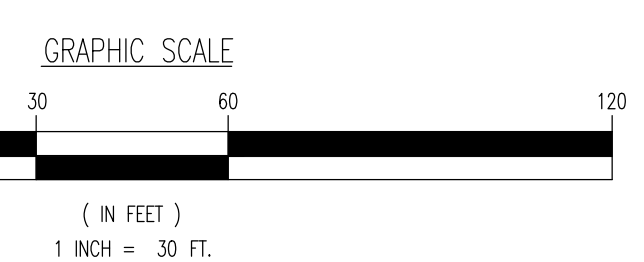
- RUNNING SLOPE: 1:20 (5%) MAX. (4.5% MAX. FOR NEW CONSTRUCTION)
- CROSS SLOPE: 1:48 (2.08%) MAX. (1.5% MAX. FOR NEW CONSTRUCTION)
- CHANGE IN LEVELS: 1/2" MAX. HEIGHT OR 1/2" MAX. HEIGHT WITH BEVELED EDGE BEVELED EDGE SLOPE OF 1:2 (50%) MAX.
- GAPS: 1/2" MAX. WIDTH ELONGATED OPENINGS SHALL BE PLACED SO LONG DIMENSION IS PERPENDICULAR TO PATH OF TRAVEL.

**RAMPS**

- SLOPE: 1:12 (8.33%) MAX. (7.4% MAX. FOR NEW CONSTRUCTION)
- EXISTING RAMPS: SLOPE: 1:10 (10%) MAX. FOR RISE OF 6"; 1:8 (12.5%) MAX. FOR MAX. RISE OF 3"
- MAX. RISE: 30"
- MIN. CLEAR WIDTH: 36"
- MIN. LANDING CLEAR LENGTH: 60"
- MAX. CROSS SLOPE: 1:48 (2.08%) (1.5% MAX. FOR NEW CONSTRUCTION)

**GRADING NOTES**

1. SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT REFERENCED IN THIS PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES AND RELIING WITH SHARABLE MATERIALS AS SPECIFIED IN THE SOILS REPORT. ALL EXISTING UTILITIES SHALL BE LOCATED AND DEPTH OF UTILITIES SHALL BE DETERMINED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A COMPACTOR REPORT PREPARED BY A QUALIFIED SOILS ENGINEER, REGISTERED WITH THE STATE WHERE THE WORK IS PERFORMED, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE BOUNDARY AREAS TO BE FILLED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT.
2. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF EXISTING TOPOGRAPHIC INFORMATION AND UTILITY INVERT ELEVATIONS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR TO INSURE 1/2" MAX. SLIP AGAINST ALL SLOPE. ALL CONCRETE SURFACES AND 1-1/2" MIN. ON ASPHALT TO PREVENT PONDING. ANY DISCREPANCIES THAT MAY AFFECT THE PUBLIC SAFETY OR PROJECT COST MUST BE IDENTIFIED TO THE ENGINEER IN WRITING IMMEDIATELY. PROCEEDING WITH CONSTRUCTION WITH DESIGN DISCREPANCIES IS DONE SO AT THE CONTRACTOR'S OWN RISK.
3. PROPOSED TOP OF CURB ELEVATIONS ARE GENERALLY 4" ABOVE EXISTING LOCAL ASPHALT GRADE UNLESS OTHERWISE NOTED. FIELD ADJUST TO CREATE A MIN. OF 0.75% GUTTER GRADE ALONG CURB FACE. ENGINEER TO APPROVE FINAL CURBING CUT SHEETS PRIOR TO INSTALLATION.
4. SUBGRADE MATERIAL FOR SIDEWALKS, CURB, OR ASPHALT SHALL BE FREE OF ORGANICS AND OTHER UNSUITABLE MATERIALS. SHOULD SUBGRADE BE DENIED UNDERLIE, SURFACE IS TO BE REMOVED AND FILLED WITH APPROVED FILL MATERIAL, COMPACTED TO 95% OF OPTIMUM DENSITY (AS DETERMINED BY MOISTURE PROCTOR METHOD).
5. REFER TO SITE PLAN FOR ADDITIONAL NOTES.
6. IN CASE OF DISCREPANCIES BETWEEN PLANS, THE SITE PLAN WILL SUPERCEDE IN ALL CASES. CONTRACTOR MUST NOTIFY ENGINEER OF RECORD OF ANY CONFLICT IMMEDIATELY.
7. MAXIMUM CROSS SLOPE OF 2% ON ALL SIDEWALKS.
8. CONTRACTOR TO ENSURE A MINIMUM OF 2% SLOPE IN ALL DIRECTIONS IN ADA PARKING SPACES AND ADA ACCESSIBLE AREAS. CONTRACTOR TO ENSURE A MAXIMUM OF 0.5% RUNNING SLOPE AND 2% CROSS SLOPE. ALL OTHER PARKING SPACES ACCESSIBLE AREAS SHALL BE DESIGNED TO BE GREATER THAN OR EQUAL TO THE DESIGN CRITERIA. CONTRACTOR SHALL CLARIFY ANY QUESTIONS CONCERNING CONSTRUCTION IN ADA AREAS WITH THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.
9. THE OWNER SHALL RETAIN DYNAMIC EARTH (800-879-7090) OR ALTERNATE QUALIFIED GEOTECHNICAL ENGINEER TO TEST SOIL PERMEABILITY AND PROVIDE CONSTRUCTION PHASE INSTRUCTIONS OF THE BASIN BOTTOM SOILS AND ANY FILL MATERIALS WITHIN ANY PROPOSED INFILTRATION OR RETENTION BASIN TO COMPARE RESULTS TO DESIGN CRITERIA.
10. CONTRACTOR IS TO REMOVE EXISTING UNSUITABLE OR OVERLY COMPACT SOIL OR ROCK AS NEEDED TO ACHIEVE REQUIRED PERMEABILITY AS DIRECTED BY THE CONTRACTOR'S GEOTECHNICAL ENGINEER AND ANY FILL MATERIALS SHALL BE PLACED IN PLACE IMMEDIATELY. PERMEABILITY SHALL BE TESTED AND REPORTED TO THE CONTRACTOR'S GEOTECHNICAL ENGINEER.
11. CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE OWNER'S GEOTECHNICAL ENGINEER PRIOR TO ONSET OF CONSTRUCTION TO SLURRY AND CONFIRM THE CONTRACTOR'S PROPOSED MEANS AND MATERIALS AND TO SCHEDULE INSPECTIONS FOR BOTTOM OF BASIN, REMOVAL OF UNSUITABLE SOIL, FILL PLACEMENT, AND FINAL BASIN PERMEABILITY TESTING.
12. THE CONTRACTOR IS RESPONSIBLE FOR AS-BUILT PLANS AND GRADE CONTROL UNLESS DEFINED OTHERWISE ELSEWHERE IN THE CONTRACT DOCUMENTS.



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**GRADING PLAN A**

**PROJECT: B9 SCHOOLHOUSE OWNER LLC**  
PROPOSED WAREHOUSES  
BLOCK 514, LOTS 1, 2, 3, & 60  
96-104 SCHOOLHOUSE ROAD  
TOWNSHIP OF FRANKLIN, SOMERSET COUNTY, NEW JERSEY

**JOSHUA M. SEWALD** PROFESSIONAL ENGINEER  
NEW JERSEY LICENSE NO. 52908

**KYLE C. KAVINSKI** PROFESSIONAL ENGINEER  
NEW JERSEY LICENSE NO. 52985

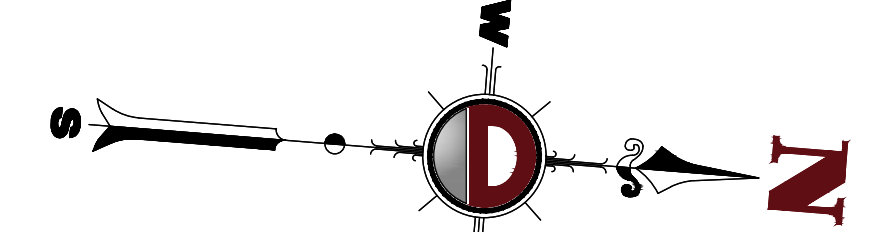
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FOR THE PUBLIC'S PROTECTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES AND RELIING WITH SHARABLE MATERIALS AS SPECIFIED IN THE SOILS REPORT. ALL EXISTING UTILITIES SHALL BE LOCATED AND DEPTH OF UTILITIES SHALL BE DETERMINED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A COMPACTOR REPORT PREPARED BY A QUALIFIED SOILS ENGINEER, REGISTERED WITH THE STATE WHERE THE WORK IS PERFORMED, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE BOUNDARY AREAS TO BE FILLED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT.

Rev.	Date	Description
1	08/16/23	REV. PER SUBMISSION
2	08/16/23	REV. PER OWNER'S COMMENTS

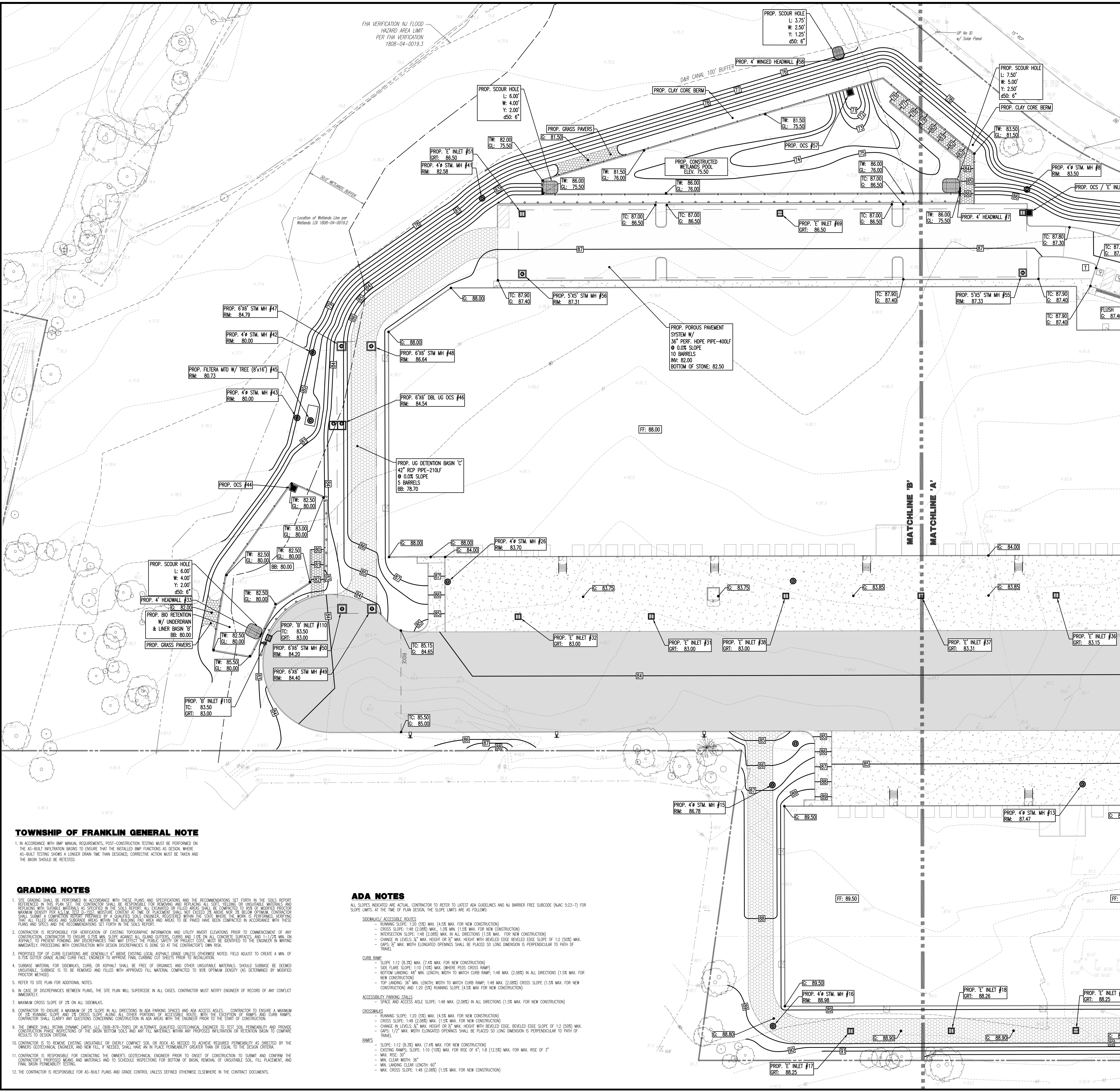
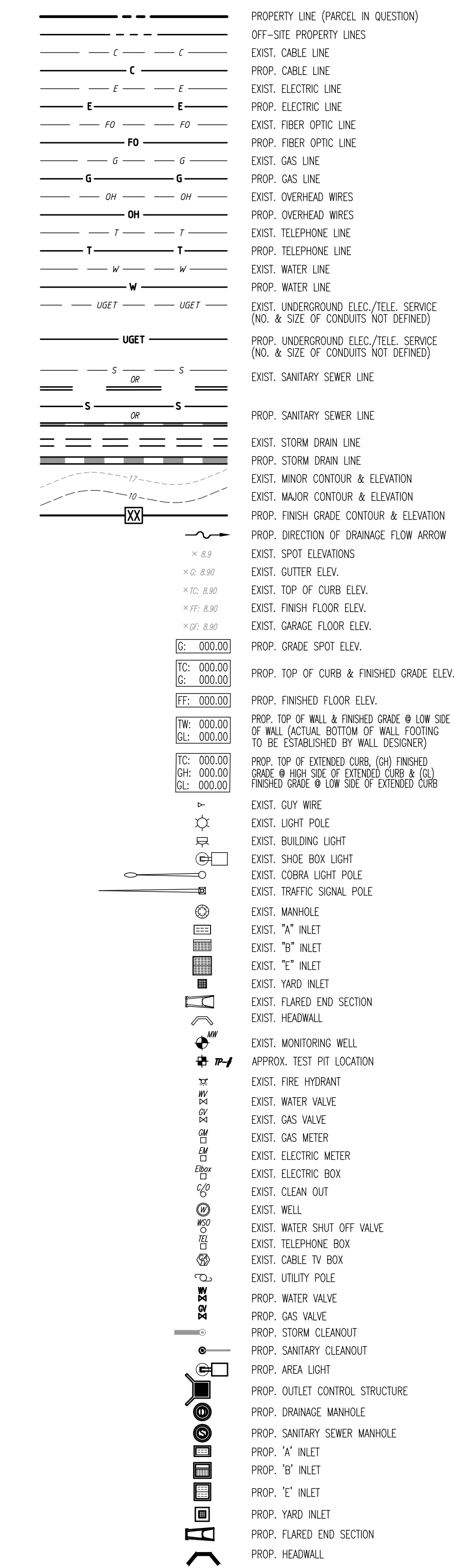
DATE: 04/01/2022  
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SHEET NO: 8  
OF 33

Printed: 06/16/23 - 2:18 PM. By: owner. Product Ver: 24.09 (LMS Tech)  
File: \Users\jms\Documents\Projects\B9 Schoolhouse - schoolhouse.dwg, 08 GRADING PLAN A





### GRADING/UTILITY GRAPHIC LEGEND



### TOWNSHIP OF FRANKLIN GENERAL NOTE

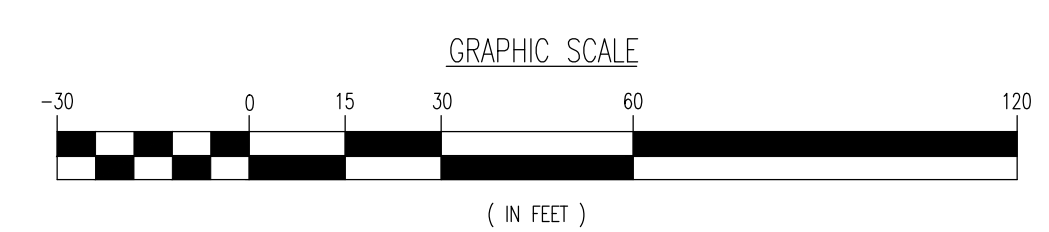
1. IN ACCORDANCE WITH BMP MANUAL REQUIREMENTS, POST-CONSTRUCTION TESTING MUST BE PERFORMED ON THE AS-BUILT INFILTRATION BASINS TO ENSURE THAT THE INSTALLED BMP FUNCTIONS AS DESIGN. WHERE AS-BUILT TESTING SHOWS A LONGER DRAIN TIME THAN DESIGNED, CORRECTIVE ACTION MUST BE TAKEN AND THE BASIN SHOULD BE RETESTED.

### GRADING NOTES

- SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT REFERENCED BY THIS PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMEDIATING AND STABILIZING ALL EXISTING OR UNDESIRABLE MATERIALS AND REPLACING WITH SUITABLE MATERIALS AS SPECIFIED IN THE SOILS REPORT. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DENSITY FOR 6" LAYERS. TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. THE CONTRACTOR SHALL NOT EXCEED THE DESIGN OPERATIONAL CAPACITY. THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION REPORT PREPARED BY A QUALIFIED SOILS ENGINEER, REGISTERED WITH THE STATE WHERE THE WORK IS PERFORMED, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE ARE WITHIN THE BUILDING FOOT AND HEADS TO BE FINISH GRAD. THIS REPORT SHALL BE SUBMITTED TO THE ENGINEER WITH THESE PLANS AND SPECIFICATIONS SET FORTH IN THE SOILS REPORT.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING TOPOGRAPHIC INFORMATION AND UTILITY INVERT ELEVATIONS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR TO ENSURE ALL CURBS, CUTTERS, CURBS AND 1/2" ON ALL CONCRETE SURFACES, AND 1/4" ON ASPHALT, TO PREVENT FLOODING. ANY DISCREPANCIES THAT MAY AFFECT THE PUBLIC SAFETY OR PROJECT COST, MUST BE IDENTIFIED TO THE ENGINEER IN WRITING IMMEDIATELY. PROCEEDING WITH CONSTRUCTION WITH DESIGN DISCREPANCIES IS DONE SO AT THE CONTRACTOR'S OWN RISK.
- PROPOSED TOP OF CURB ELEVATIONS ARE GENERALLY 4" ABOVE EXISTING LOCAL ASPHALT GRADE UNLESS OTHERWISE NOTED. FIELD ADJUST TO CREATE A MIN. OF 0.25% COUNTER GRADE ALONG CURB FACE. ENGINEER TO APPROVE FINAL CURBING CUT SHEETS PRIOR TO INSTALLATION.
- SUBGRADE MATERIAL FOR SIDEWALKS, CURBS OR ASPHALT SHALL BE FREE OF ORGANICS AND OTHER UNSUITABLE MATERIALS. SHOULD SUBGRADE BE DETERMINED UNSUITABLE, SUBGRADE IS TO BE REMOVED AND FILLED WITH APPROVED FILL MATERIAL COMPACTED TO 95% OPERATIONAL DENSITY (AS DETERMINED BY MODIFIED PROCTOR METHOD).
- REFER TO SITE PLAN FOR ADDITIONAL NOTES.
- IN CASE OF DISCREPANCIES BETWEEN PLANS, THE SITE PLAN WILL SUPERCEDE IN ALL CASES. CONTRACTOR MUST NOTIFY ENGINEER OF RECORD OF ANY CONFLICT IMMEDIATELY.
- MAXIMUM CROSS SLOPE OF 2% ON ALL SIDEWALKS.
- CONTRACTOR TO DISBURSE A MAXIMUM OF 2% SLOPE IN ALL DIRECTIONS IN ADA PARKING SPACES AND ADA ACCESS AREAS. CONTRACTOR TO ENSURE A MAXIMUM OF 2% RUNNING SLOPE AND 1% CROSS SLOPE ALONG ALL OTHER PORTIONS OF ACCESSIBLE ROUTE. WITH THE EXCEPTION OF CURBS AND CURB RAMPS, CONTRACTOR SHALL CLARIFY ANY QUESTIONS CONCERNING CONSTRUCTION IN ADA AREAS WITH THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.
- THE OWNER SHALL RETAIN DYNAMIC PARTNERS, LLC (908-879-7095) OR AN ALTERNATE QUALIFIED GEOTECHNICAL ENGINEER TO TEST SOIL PENETRABILITY AND PROVIDE CONSTRUCTION PHASE REPORTS OF THE BASIN BOTTOM SOILS AND ANY FILL MATERIALS WITHIN ANY PROPOSED INFILTRATION OR RETENTION BASIN TO CORRELATE RESULTS TO DESIGN CRITERIA.
- CONTRACTOR IS TO REMOVE EXISTING UNSUITABLE OR OVERLY COMPACT SOIL OR ROCK AS NECESSARY TO ACHIEVE REQUIRED PENETRABILITY AS DETERMINED BY THE OWNER'S GEOTECHNICAL ENGINEER AND NEW FILL, IF NEEDED, SHALL HAVE AN IN PLACE PERMEABILITY GREATER THAN OR EQUAL TO THE DESIGN CRITERIA.
- CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE OWNER'S GEOTECHNICAL ENGINEER PRIOR TO ONSITE OF CONSTRUCTION TO SUBMIT AND CONFIRM THE CONTRACTOR'S PROPOSED MEANS AND MATERIALS AND TO SCHEDULE INSPECTIONS FOR BOTTOM OF BASIN, REMOVAL OF UNSUITABLE SOIL, FILL PLACEMENT, AND FINAL BASIN PERMEABILITY TESTING.
- CONTRACTOR IS RESPONSIBLE FOR AS-BUILT PLANS AND GRADE CONTROL UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.

### ADA NOTES

- ALL SLOPES INDICATED ARE MINIMUM. CONTRACTOR TO REFER TO LATEST ADA GUIDELINES AND NJ BARRIER FREE SUBCODE (NAC 523-7) FOR SLOPE LIMITS. AT THE TIME OF PLAN DESIGN, THE SLOPE LIMITS ARE AS FOLLOWS:
- SIDEWALKS/ACCESSIBLE ROUTES**
    - RAMPING SLOPE: 1:20 (5%) MAX. (4.5% MAX. FOR NEW CONSTRUCTION)
    - CROSS SLOPE: 1:48 (2.08%) MAX. (1.0% MAX. FOR NEW CONSTRUCTION)
    - INTERSECTION SLOPE: 1:48 (2.08%) MAX. IN ALL DIRECTIONS (1.5% MAX. FOR NEW CONSTRUCTION)
    - CHANGE IN LEVELS: 1/4" MAX. HEIGHT OR 1/2" MAX. HEIGHT WITH BEVELLED EDGE. BEVELLED EDGE SLOPE OF 1:2 (50%) MAX.
    - CURBS: 1/2" MAX. WIDTH ELONGATED OPENINGS SHALL BE PLACED SO LONG DIMENSION IS PERPENDICULAR TO PATH OF TRAVEL
  - CURB RAMP**
    - SLOPE: 1:12 (8.33%) MAX. (7.4% MAX. FOR NEW CONSTRUCTION)
    - SIDE FLARE SLOPE: 1:10 (10%) MAX. (WHERE PRESS CROSS RAMP)
    - BOTTOM LANDING: 48" MIN. LENGTH, WIDTH TO MATCH CURB RAMP; 1:48 MAX. (2.08%) IN ALL DIRECTIONS (1.5% MAX. FOR NEW CONSTRUCTION)
    - TOP LANDING: 36" MIN. LENGTH, WIDTH TO MATCH CURB RAMP; 1:48 MAX. (2.08%) CROSS SLOPE (1.5% MAX. FOR NEW CONSTRUCTION) AND 1:20 (5%) RAMPING SLOPE (4.5% MAX. FOR NEW CONSTRUCTION)
  - ACCESSIBILITY PARKING SPACES**
    - SPACE AND ACCESSIBLE SLOPE: 1:48 MAX. (2.08%) IN ALL DIRECTIONS (1.5% MAX. FOR NEW CONSTRUCTION)
  - CROSSINGS**
    - RAMPING SLOPE: 1:20 (5%) MAX. (4.5% MAX. FOR NEW CONSTRUCTION)
    - CROSS SLOPE: 1:48 (2.08%) MAX. (1.5% MAX. FOR NEW CONSTRUCTION)
    - CHANGE IN LEVELS: 1/4" MAX. HEIGHT OR 1/2" MAX. HEIGHT WITH BEVELLED EDGE. BEVELLED EDGE SLOPE OF 1:2 (50%) MAX.
    - GAPS: 1/2" MAX. WIDTH ELONGATED OPENINGS SHALL BE PLACED SO LONG DIMENSION IS PERPENDICULAR TO PATH OF TRAVEL
  - RAMP**
    - SLOPE: 1:12 (8.33%) MAX. (7.4% MAX. FOR NEW CONSTRUCTION)
    - EXISTING RAMP: SLOPE: 1:10 (10%) MAX. FOR RISE OF 6" (15.24%) MAX. FOR MAX. RISE OF 3"
    - MAX. RISE: 30"
    - MIN. CLEAR WIDTH: 36"
    - MIN. LANDING CLEAR LENGTH: 60"
    - MAX. CROSS SLOPE: 1:48 (2.08%) (1.5% MAX. FOR NEW CONSTRUCTION)



NO.	DATE	BY	DESCRIPTION
1	10/23/22	JMS	REV. PER. N.J. REG. WETLANDS PLAN
2	08/16/23	JMS	REV. PER. SUBMISSION
3	08/16/23	JMS	REV. PER. N.J. REG. WETLANDS PLAN
4	08/16/23	JMS	REV. PER. COMMENTS

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**GRADING PLAN B**

PROJECT: **B9 SCHOOLHOUSE OWNER LLC**  
PROPOSED WAREHOUSES  
BLOCK 514, LOTS 1, 2, 3, & 60  
96-104 SCHOOLHOUSE ROAD  
TOWNSHIP OF FRANKLIN, SOMERSET COUNTY, NEW JERSEY

JOB No: 3566-99-005  
DATE: 04/01/2022  
SCALE: (H) 1"=30'  
(V) 1"=10'

DESIGNED BY: CAM  
CHECKED BY: KCK  
DATE: 04/01/2022

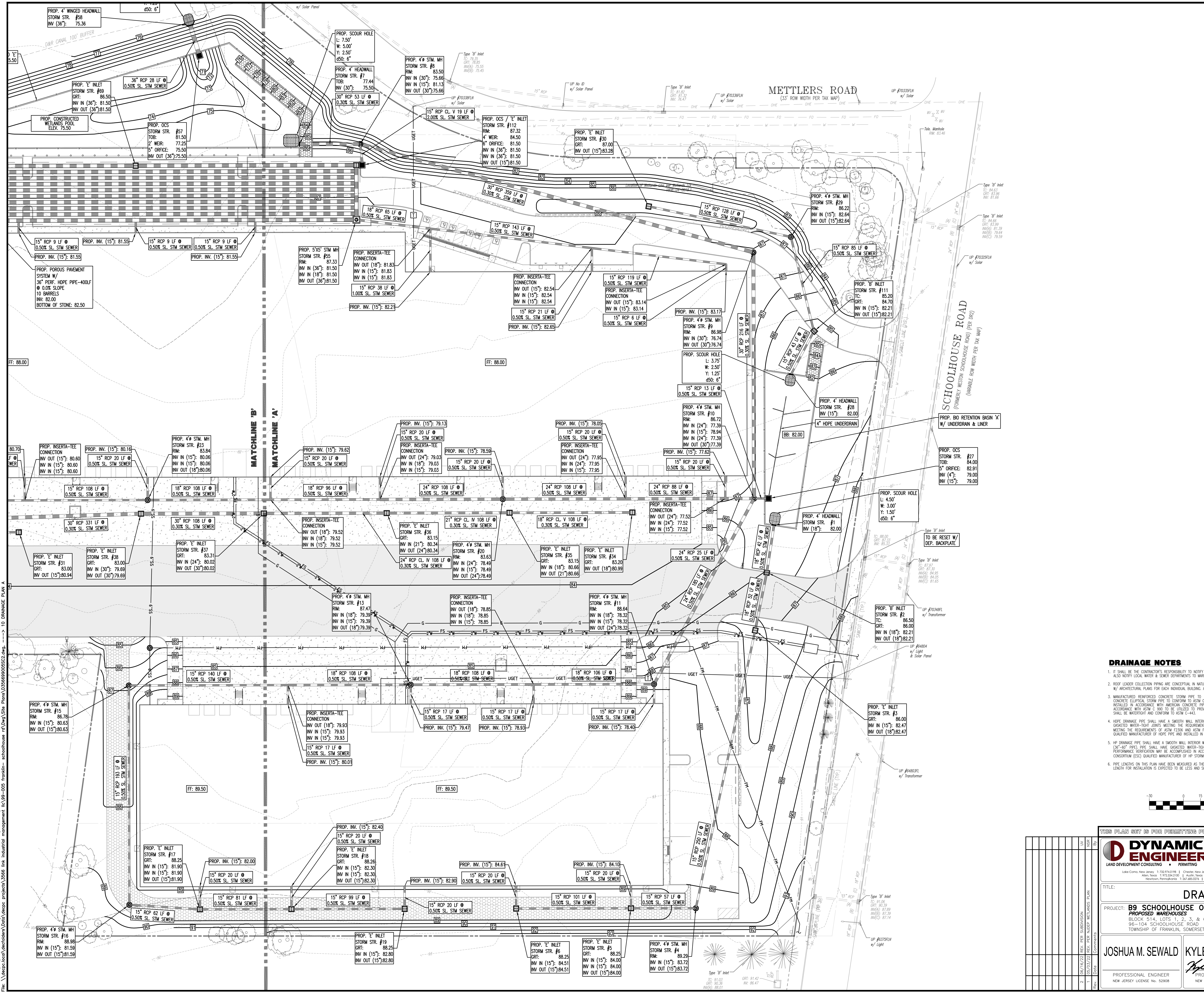
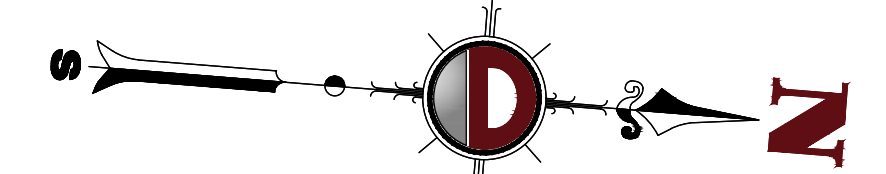
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DATE: 04/01/2022

**JOSHUA M. SEWALD** PROFESSIONAL ENGINEER  
NEW JERSEY LICENSE NO. 52908

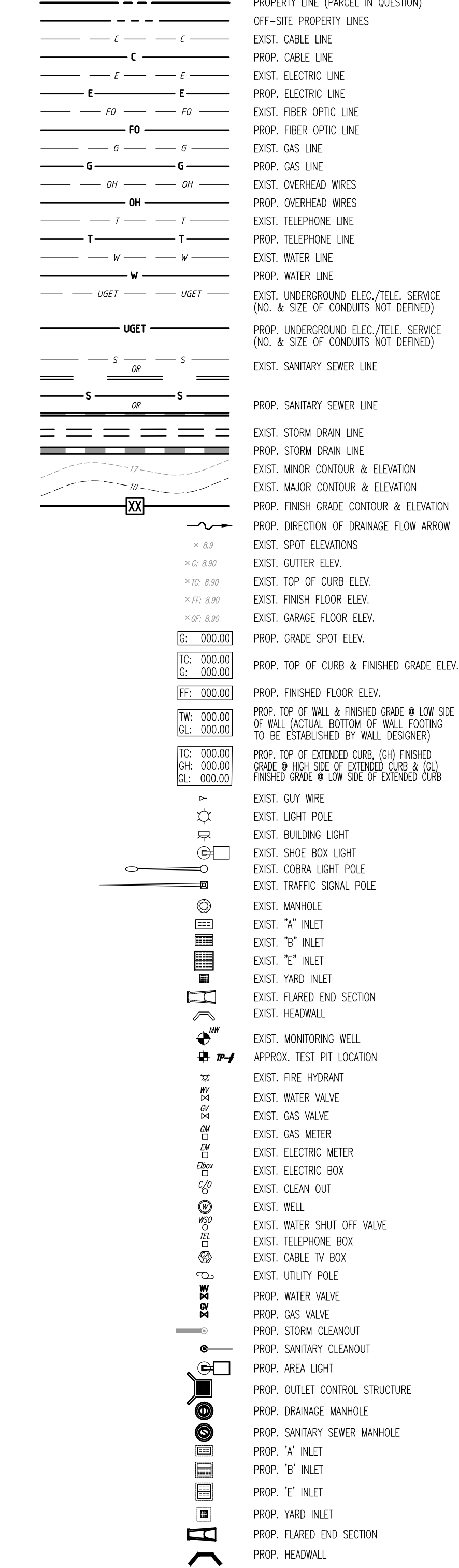
**KYLE C. KAVINSKI** PROFESSIONAL ENGINEER  
NEW JERSEY LICENSE NO. 52985

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SHEET No: **9**  
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Rev: 2

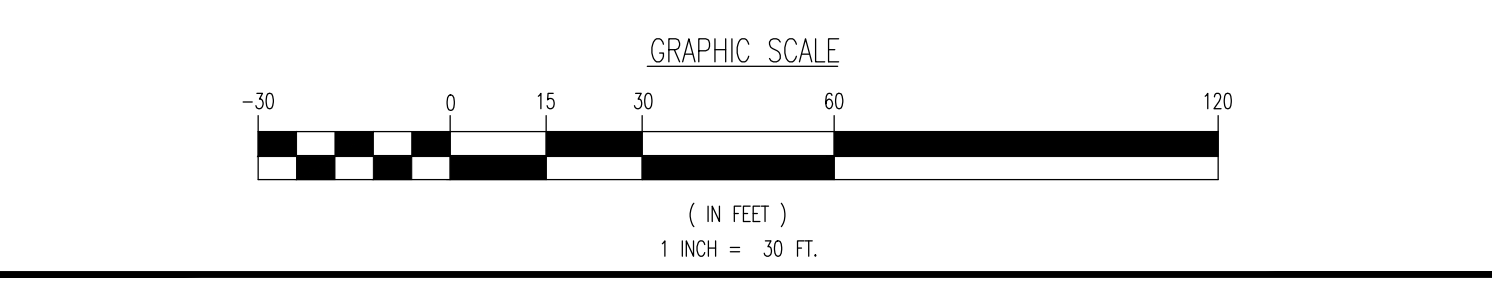


### GRADING/UTILITY GRAPHIC LEGEND



### DRAINAGE NOTES

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY UTILITY "ONE-CALL" NUMBER 72 HOURS PRIOR TO ANY EXCAVATION ON THIS SITE. CONTRACTOR SHALL ALSO NOTIFY LOCAL WATER & SEWER DEPARTMENTS TO MARK-OUT THEIR UTILITIES.
- ROOF LEADER COLLECTION PIPING ARE CONCEPTUAL IN NATURE AND ARE NOT FOR CONSTRUCTION. ACTUAL ROOF LEADER COLLECTION PIPING IS TO BE COORDINATED BY ARCHITECTURAL PLANS FOR EACH INDIVIDUAL BUILDING. ALL ROOF LEADER COLLECTION PIPING SHALL BE SCHEDULE 40 PIPE UNLESS OTHERWISE DESIGNATED.
- MANUFACTURED REINFORCED CONCRETE STORM PIPE TO CONFORM TO ASTM C-76, CLASS II, UNLESS OTHERWISE DESIGNATED. MANUFACTURED REINFORCED CONCRETE ELLIPTICAL STORM PIPE TO CONFORM TO ASTM C-507, CLASS II, UNLESS OTHERWISE DESIGNATED. REINFORCED CONCRETE STORMPIPE PIPE TO BE INSTALLED IN ACCORDANCE WITH AMERICAN CONCRETE PIPE ASSOCIATION INSTALLATION GUIDELINES AND METHOD OF PREFORMED FIBERED JOINT SEALANTS IN ACCORDANCE WITH ASTM C-900 TO BE UTILIZED TO PROVIDE A SEAL-TIGHT JOINT. WHERE SPECIFICALLY INDICATED, REINFORCED CONCRETE STORM PIPE JOINTS SHALL BE INTERESTED AND CONFORM TO ASTM C-445.
- HOPE DRAINAGE PIPE SHALL HAVE A SMOOTH WALL INTERIOR WITH ANNUAL EXTERIOR CORRUGATIONS AND CONFORM TO ASTM F2306. SOLID PIPE SHALL HAVE GASKETED WATER-TIGHT JOINTS MEETING THE REQUIREMENTS OF ASTM F2306 AND ASTM D3212. PERFORATED PIPE SHALL HAVE GASKETED SLIT-TIGHT JOINTS MEETING THE REQUIREMENTS OF ASTM F2306 AND ASTM F427. HOPE PIPE SHALL BE FROM A MANUFACTURER WHO IS AN EASTERN STATES CONSORTIUM (ESC) QUALIFIED MANUFACTURER OF HOPE PIPE AND INSTALLED IN ACCORDANCE WITH PIPE MANUFACTURER RECOMMENDATIONS.
- HOPE DRAINAGE PIPE SHALL HAVE A SMOOTH WALL INTERIOR WITH ANNUAL EXTERIOR CORRUGATIONS AND CONFORM TO ASTM F2306 (12"-30" PIPE) AND ASTM F2881 (36"-60" PIPE). PIPE SHALL HAVE GASKETED WATER-TIGHT JOINTS MEETING THE REQUIREMENTS OF ASTM D3212 AND ASTM F427. FIELD WATER/TIGHTNESS PERFORMANCE VERIFICATION MAY BE ACCOMPLISHED IN ACCORDANCE WITH ASTM F427. HOPE PIPE SHALL BE FROM A MANUFACTURER WHO IS AN EASTERN STATES CONSORTIUM (ESC) QUALIFIED MANUFACTURER OF HOPE PIPE AND INSTALLED IN ACCORDANCE WITH PIPE MANUFACTURER RECOMMENDATIONS.
- PIPE LENGTHS ON THIS PLAN HAVE BEEN MEASURED AS THE DISTANCE BETWEEN THE CENTER POINT OF THE 2 CONNECTED STRUCTURES. ACTUAL PHYSICAL PIPE LENGTH FOR INSTALLATION IS EXPECTED TO BE LESS AND SHOULD BE ACCOUNTED FOR BY THE CONTRACTOR ACCORDINGLY.



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**TITLE: DRAINAGE PLAN A**

PROJECT: **B9 SCHOOLHOUSE OWNER LLC**  
PROPOSED WAREHOUSES  
BLOCK 514, LOTS 1, 2, 3, & 60  
96-104 SCHOOLHOUSE ROAD  
TOWNSHIP OF FRANKLIN, SOMERSET COUNTY, NEW JERSEY

JOB NO: 3566-99-005  
DATE: 04/01/2022  
DRAWN BY: CAM  
SCALE: 1" = 30'  
DESIGNED BY: KCK  
CHECKED BY: JMS  
SHEET NO: 10 OF 33

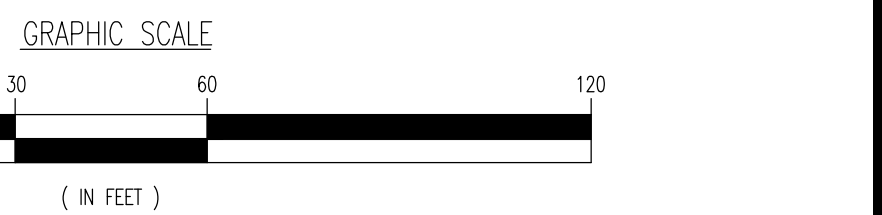
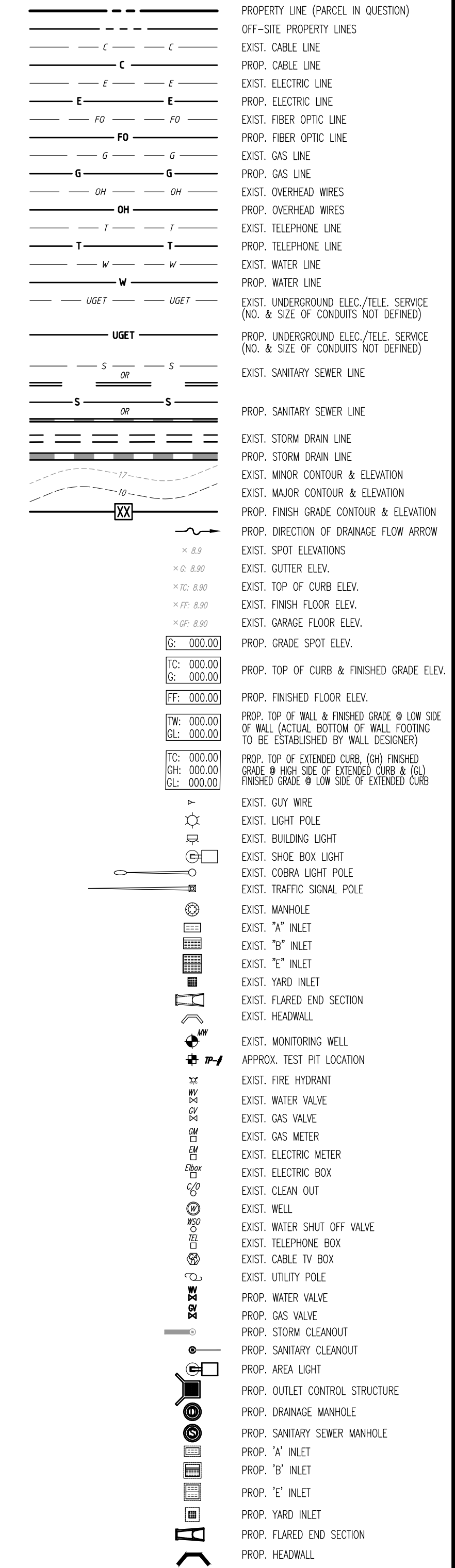
**JOSHUA M. SEWALD** PROFESSIONAL ENGINEER  
NEW JERSEY LICENSE NO. 52908

**KYLE C. KAVINSKI** PROFESSIONAL ENGINEER  
NEW JERSEY LICENSE NO. 52985

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 Plot Title Block: DYNAMIC ENGINEERING

**GRADING/UTILITY GRAPHIC LEGEND**



**DRAINAGE NOTES**

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY UTILITY "ONE-CALL" NUMBER 72 HOURS PRIOR TO ANY EXCAVATION ON THIS SITE. CONTRACTOR SHALL ALSO NOTIFY LOCAL WATER & SEWER DEPARTMENTS TO MARK-OUT THEIR UTILITIES.
- ROOF LEADER COLLECTION PIPES ARE CONCEPTUAL IN NATURE AND ARE NOT FOR CONSTRUCTION. ACTUAL ROOF LEADER COLLECTION PIPING IS TO BE COORDINATED BY ARCHITECTURAL PLANS FOR EACH INDIVIDUAL BUILDING. ALL ROOF LEADER COLLECTION PIPING SHALL BE SCHEDULE 40 PIPE UNLESS OTHERWISE DESIGNATED.
- MANUFACTURED REINFORCED CONCRETE STORM PIPE TO CONFORM TO ASTM C-76, CLASS III, UNLESS OTHERWISE DESIGNATED. MANUFACTURED REINFORCED CONCRETE ELLIPTICAL STORM PIPE TO CONFORM TO ASTM C-557, CLASS HE-II, UNLESS OTHERWISE DESIGNATED. REINFORCED CONCRETE STORM/RAIN PIPE TO BE INSTALLED IN ACCORDANCE WITH AMERICAN CONCRETE PIPE ASSOCIATION INSTALLATION GUIDELINES AND HORIZONTAL PREPARED FLEXIBLE JOINT ISSUANCE IN ACCORDANCE WITH ASTM C-990 TO BE UTILIZED TO PROVIDE A SELF-TIGHT JOINT, WHERE SPECIFICALLY INDICATED, REINFORCED CONCRETE STORM PIPE JOINTS SHALL BE WATERSTOP AND CONFORM TO ASTM C-443.
- DEEP DRAINAGE PIPE SHALL HAVE A SMOOTH WALL INTERIOR WITH ANNULAR EXTERIOR CORRUGATIONS AND CONFORM TO ASTM F2306. SOLID PIPE SHALL HAVE GASKETED INTER-TIGHT JOINTS MEETING THE REQUIREMENTS OF ASTM F2306 AND ASTM D3212. PERFORATED PIPE SHALL HAVE GASKETED TIGHT-TIGHT JOINTS MEETING THE REQUIREMENTS OF ASTM F2306 AND ASTM F437. HRP PIPE SHALL BE FROM A MANUFACTURER WHO IS AN EASTERN STATES CONSORTIUM (ESC) QUALIFIED MANUFACTURER OF HRP PIPE AND INSTALLED IN ACCORDANCE WITH PIPE MANUFACTURER RECOMMENDATIONS.
- HP DRAINAGE PIPE SHALL HAVE A SMOOTH WALL INTERIOR WITH ANNULAR EXTERIOR CORRUGATIONS AND CONFORM TO ASTM F2336 (12"-30" PIPE) AND ASTM F2881 (36"-60" PIPE). PIPE SHALL HAVE GASKETED WATER-TIGHT JOINTS MEETING THE REQUIREMENTS OF ASTM D3212 AND ASTM F437. FIELD WATER-TIGHTNESS PERFORMANCE VERIFICATION MAY BE ACCOMPLISHED IN ACCORDANCE WITH ASTM F2881. HP PIPE SHALL BE FROM A MANUFACTURER WHO IS AN EASTERN STATES CONSORTIUM (ESC) QUALIFIED MANUFACTURER OF HP STORM PIPE AND INSTALLED IN ACCORDANCE WITH PIPE MANUFACTURER RECOMMENDATIONS.
- PIPE LENGTHS ON THIS PLAN HAVE BEEN MEASURED AS THE DISTANCE BETWEEN THE CENTER POINT OF THE 2 CONNECTED STRUCTURES. ACTUAL PHYSICAL PIPE LENGTH FOR INSTALLATION IS EXPECTED TO BE LESS AND SHOULD BE ACCOUNTED FOR BY THE CONTRACTOR ACCORDANTLY.

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**DRAINAGE PLAN B**

PROJECT: **B9 SCHOOLHOUSE OWNER LLC**  
 PROPOSED WAREHOUSES  
 BLOCK 514, LOTS 1, 2, 3, & 60  
 96-104 SCHOOLHOUSE ROAD  
 TOWNSHIP OF FRANKLIN, SOMERSET COUNTY, NEW JERSEY

JOSHUA M. SEWALD  
 PROFESSIONAL ENGINEER  
 NEW JERSEY LICENSE NO. 52908

KYLE C. KAVINSKI  
 PROFESSIONAL ENGINEER  
 NEW JERSEY LICENSE NO. 52985

DATE: 04/01/2022  
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 SHEET NO: 11 OF 33

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