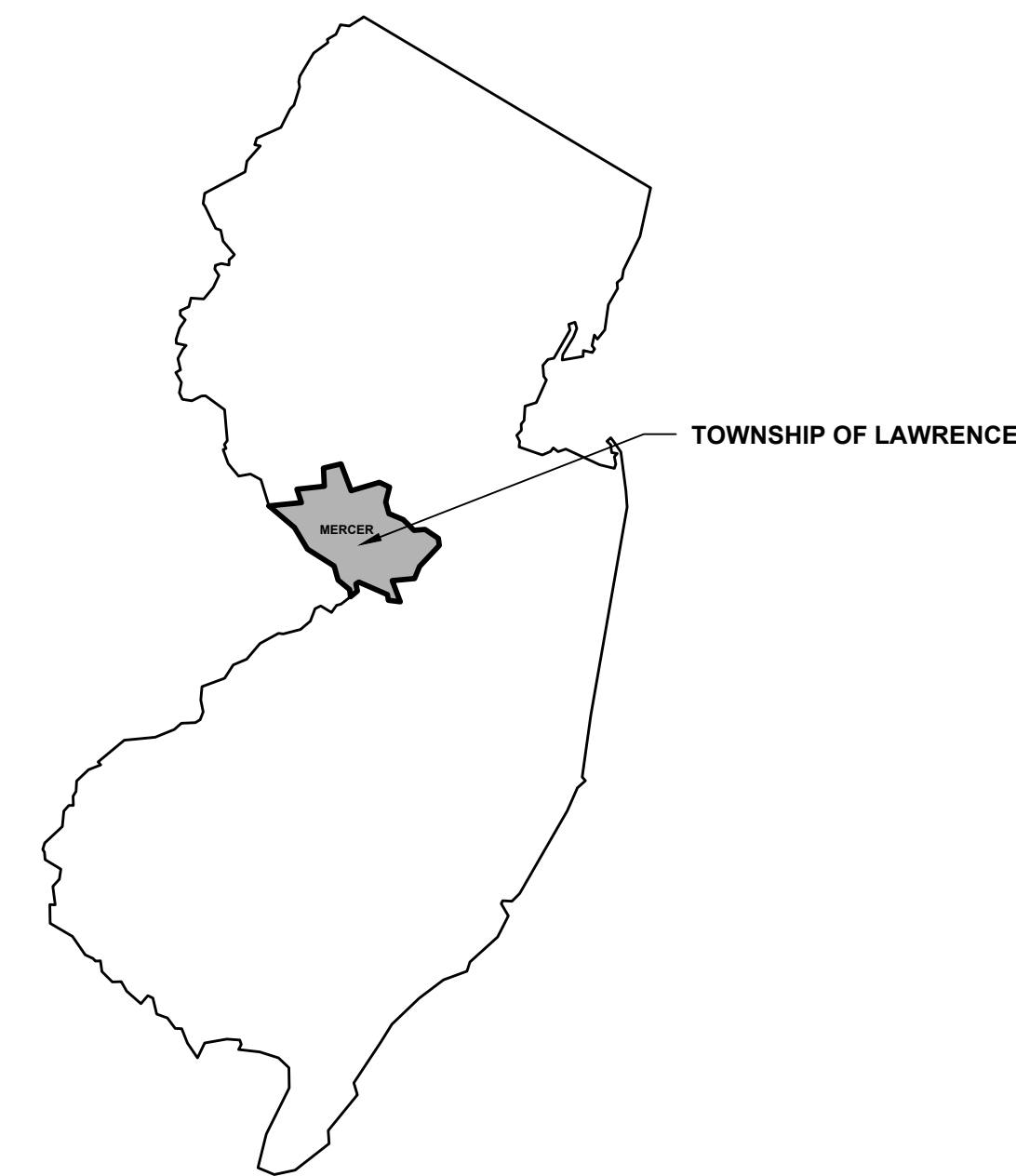




NOTRE DAME HIGH SCHOOL LOGO

**NOTRE DAME HIGH SCHOOL (601 LAWRENCE ROAD)
SYNTHETIC TURF FIELD IMPROVEMENTS
BLOCK 1301, LOT 34.02 (TAX MAP TOWNSHIP OF LAWRENCE SHEET 13)
TOWNSHIP OF LAWRENCE, COUNTY OF MERCER, STATE OF NEW JERSEY**

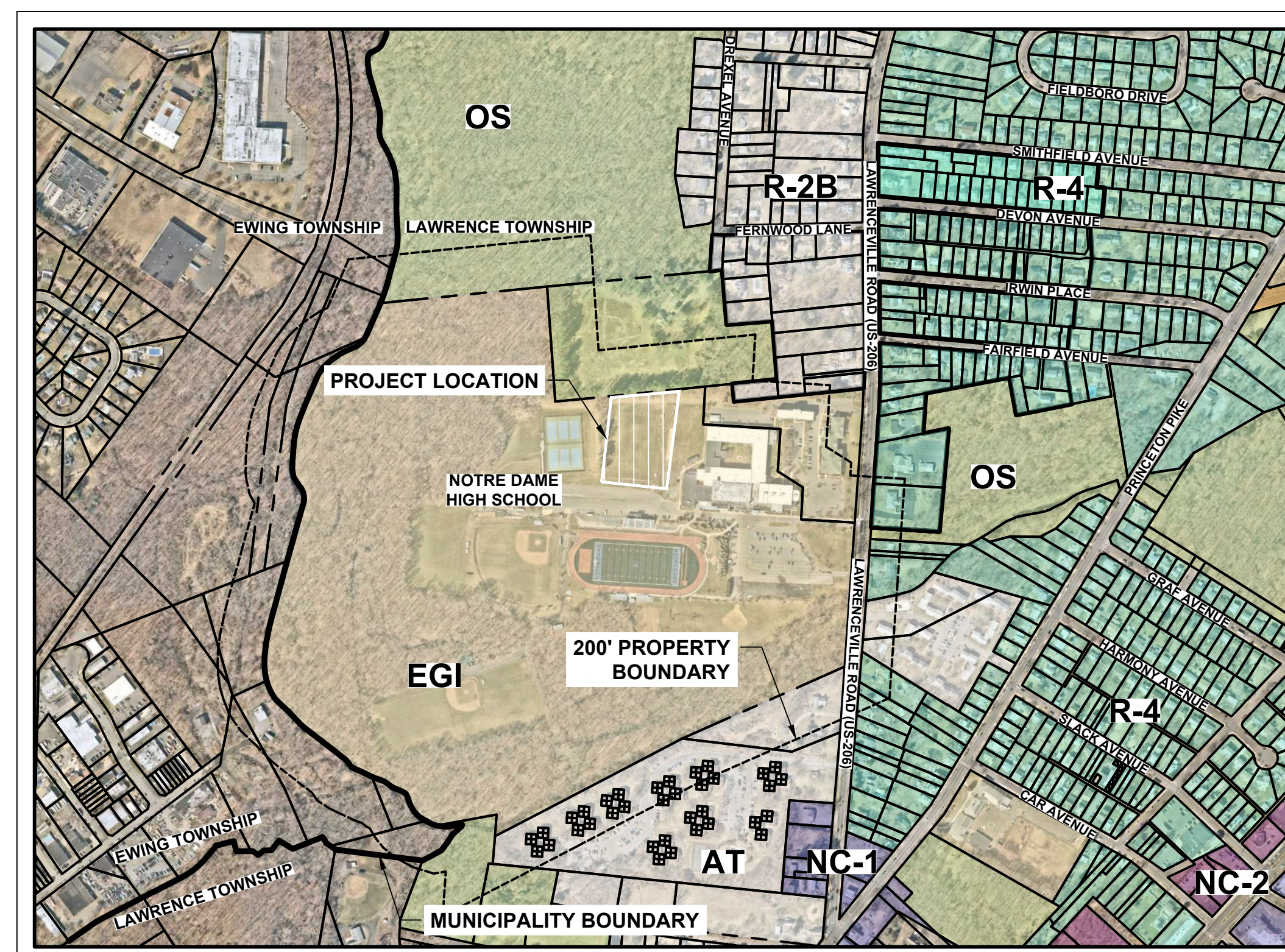


STATE OF NEW JERSEY

PUBLIC UTILITIES LIST	
TELEPHONE	VERIZON
GAS	PSE&G
WATER	TRENTON CITY DEPARTMENT OF WATER
SEWER	EWING LAWRENCE SEWAGE AUTHORITY
ELECTRICITY	PSE&G
CABLE	COMCAST

VARIANCES NEEDED	REQUIREMENT	PROPOSED CHANGES
SECTION 527.C.1	LIGHTING SHALL BE PROVIDED BY FIXTURES WITH A MOUNTING HEIGHT NOT MORE THAN 25 FEET OR THE HEIGHT OF THE BUILDING, WHICHEVER IS LESS, MEASURED FROM THE GROUND LEVEL TO THE CENTERLINE OF THE LIGHT SOURCE.	PROPOSED LIGHTING FIXTURE HAS A NOMINAL MOUNTING HEIGHT OF 50 FEET.

WAVIERS NEEDED
ITEM 51: LANDSCAPE PLAN OVERLAID ON GRADING PLAN, PLANT LIST, PLANTING DETAILS, AND TREE PROTECTION DETAILS.
ITEM 59: ENVIRONMENTAL IMPACT STATEMENT
ITEM 60: COMMUNITY IMPACT STATEMENT
ITEM 61: CIRCULATION IMPACT STUDY



SOURCE: NEARMAP IMAGERY 2021.

KEY MAP



SCALE: 1"=500'

INDEX OF DRAWINGS

SHEET	TITLE	REV.
1	COVER SHEET	-
2	LEGEND, ZONING, AND GENERAL NOTES	-
3	EXISTING CONDITIONS AND DEMOLITION PLAN	-
4	SITE LAYOUT PLAN	-
5	SITE GRADING AND DRAINAGE PLAN	-
6	SITE ELECTRIC PLAN	-
7	CONSTRUCTION DETAILS I	-
8	CONSTRUCTION DETAILS II	-
9	CONSTRUCTION DETAILS III	-
10	SOIL EROSION AND SEDIMENT CONTROL PLAN	-
11	SOIL EROSION NOTES AND DETAILS	-

PROJECT DIRECTORY	
OWNER THE DIOCESE OF TRENTON ADDRESS: 701 LAWRENCEVILLE ROAD TRENTON, NJ 08648 TELEPHONE: 609-406-7400	APPLICANT SIGNATURE _____
APPLICANT NOTRE DAME HIGH SCHOOL, DR. VINCENT DE PAUL SCHMIDT ADDRESS: 601 LAWRENCE ROAD LAWRENCEVILLE, NJ 08648 TELEPHONE: 609-882-7900	
SITE ENGINEERING SUBURBAN CONSULTING ENGINEERS ENGINEER'S ADDRESS: 96 U.S. HIGHWAY 206, SUITE 101 FLANDERS, NJ 07836 TELEPHONE: 973-398-1776	

PLANNING BOARD CHAIRPERSON	DATE
PLANNING BOARD SECRETARY	DATE
PLANNING BOARD ADMINISTRATIVE OFFICER	DATE
PLANNING BOARD MUNICIPAL ENGINEER	DATE

NOTRE DAME HIGH SCHOOL OFFICIALS	
CHAIR DICK SMITH	PRESIDENT KEN JENNINGS
DIRECTOR OF FACILITIES BRIAN MALLOY	SUPERINTENDENT DR. VINCENT DE PAUL SCHMIDT

**NOTRE DAME HIGH SCHOOL (601 LAWRENCE ROAD)
SYNTHETIC TURF FIELD IMPROVEMENTS
BLOCK 1301, LOT 34.02 (TAX MAP TOWNSHIP OF LAWRENCE SHEET 13)
TOWNSHIP OF LAWRENCE, COUNTY OF MERCER, STATE OF NEW JERSEY
COVER SHEET**

NOTE:
PRIOR TO ANY EXCAVATION, CONTRACTOR MUST HAVE ALL UTILITIES MARKED OUT BY THE APPROPRIATE UTILITY COMPANIES -> 1-800-272-1000 OR 811.



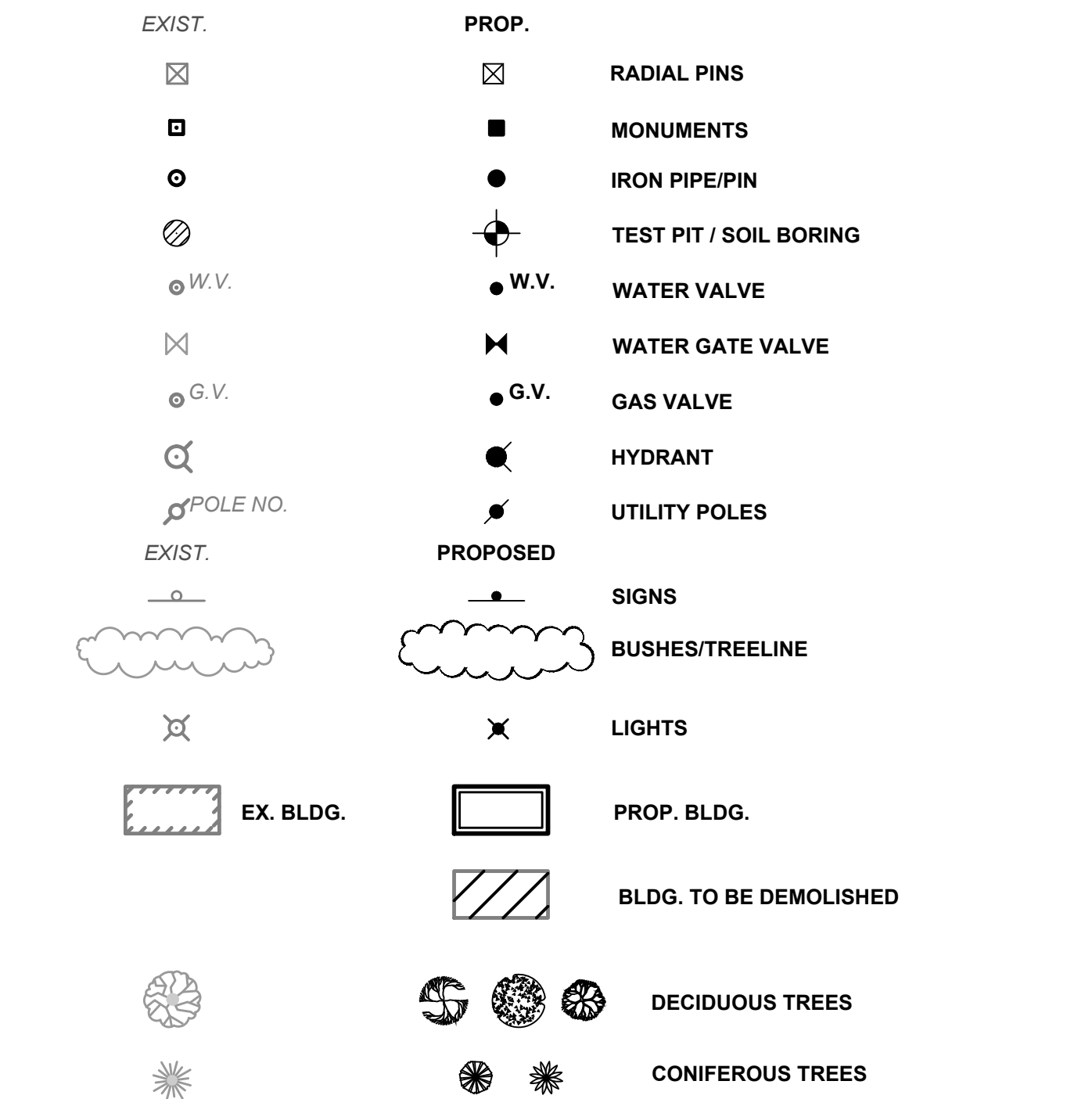
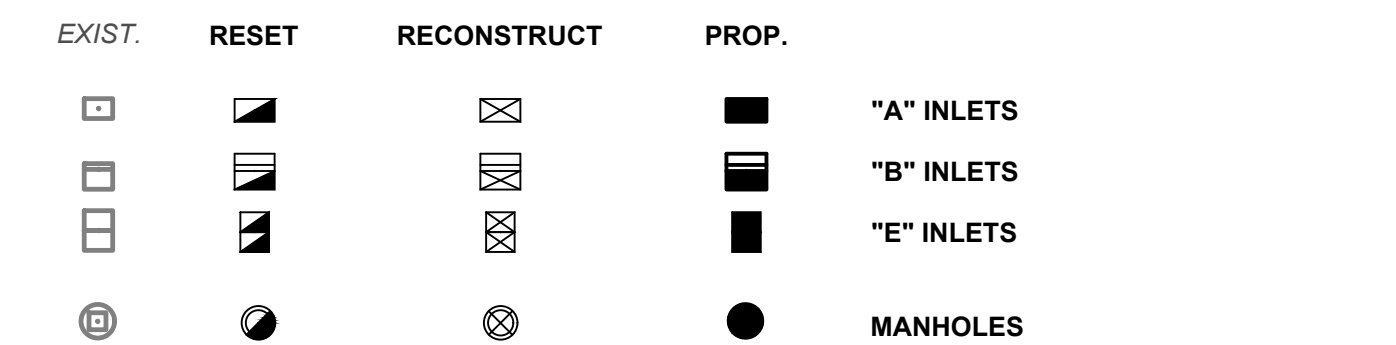
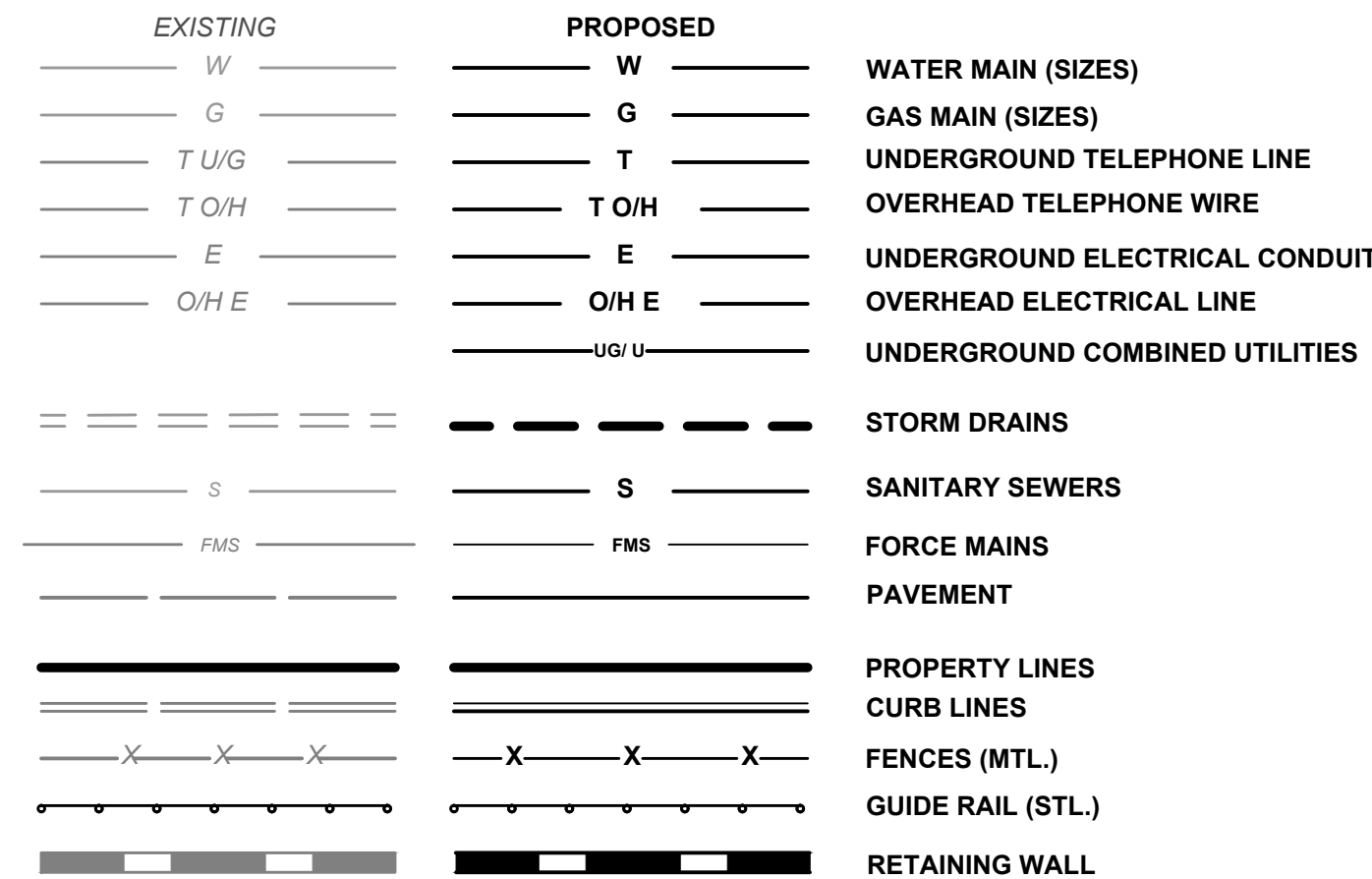
CALL BEFORE YOU DIG - 811

ROBERT GREGORIA, PE
NJ PROFESSIONAL ENGINEER
LICENSE NO. 24GE03365600

DAREN J. PHIL, PE
NJ PROFESSIONAL ENGINEER
LICENSE NO. 24GE03619100



LEGEND



REQUIRED PERMITS: DELAWARE AND RARITAN CANAL COMMISSION SOIL EROSION SEDIMENT CONTROL (MERCER COUNTY) REQUIRED DENSITY OF TREES: REQUIRED DENSITY OF TREES SHALL BE MULTIPLIED BY A FACTOR OF 15 BY THE GROSS TRACT AREA.

EGI District Zoning Table with columns for Zoning Requirement, Existing, Proposed, and Variance. Includes rows for Minimum Lot Size, Minimum Lot Frontage, Minimum Lot Width, etc.

200' PROPERTY OWNERS LIST TOWNSHIP OF LAWRENCE

Table listing property owners in Lawrence Township, including columns for Block, Lot, Owner, Street, Town/State, and Zip.

Table listing property owners in Ewing Township, including columns for Block, Lot, Owner, Street, Town/State, and Zip.

200' PROPERTY OWNERS LIST TOWNSHIP OF EWING

Table listing property owners in Ewing Township, including columns for Block, Lot, Class, Owner, Street, Town/State, and Zip.

GENERAL NOTES

- 1. ALL LOCATIONS AND ELEVATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL INFORMATION AND REPORT ALL DISCREPANCIES PRIOR TO CONSTRUCTION.
2. EXISTING CONDITIONS SHOWN HEREON PER 'PARTIAL TOPOGRAPHIC SURVEY, NOTRE DAME HIGH SCHOOL, 601 LAWRENCE ROAD - BLOCK 1301, LOT 34.02, TOWNSHIP OF LAWRENCE, MERCER COUNTY, NEW JERSEY' PREPARED BY JOSEPH D. PHIL, PLS OF SUBURBAN CONSULTING ENGINEERS, INC., DATED FEBRUARY 25, 2021. VERTICAL DATUM FOR THE PROJECT IS NAVD-88.
...
24. SUBURBAN CONSULTING ENGINEERS, INC. ("SCE") IS NOT RESPONSIBLE FOR THE CONSTRUCTION OF THIS PROJECT. SCE IS ALSO NOT RESPONSIBLE FOR THE ACTS OR OMISSIONS OF ANY OWNER, CONTRACTOR, SUBCONTRACTOR OR MATERIAL SUPPLIER...

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Table with columns: DESCRIPTION, NO., DATE, BY, CHK. Includes a REVISIONS section.

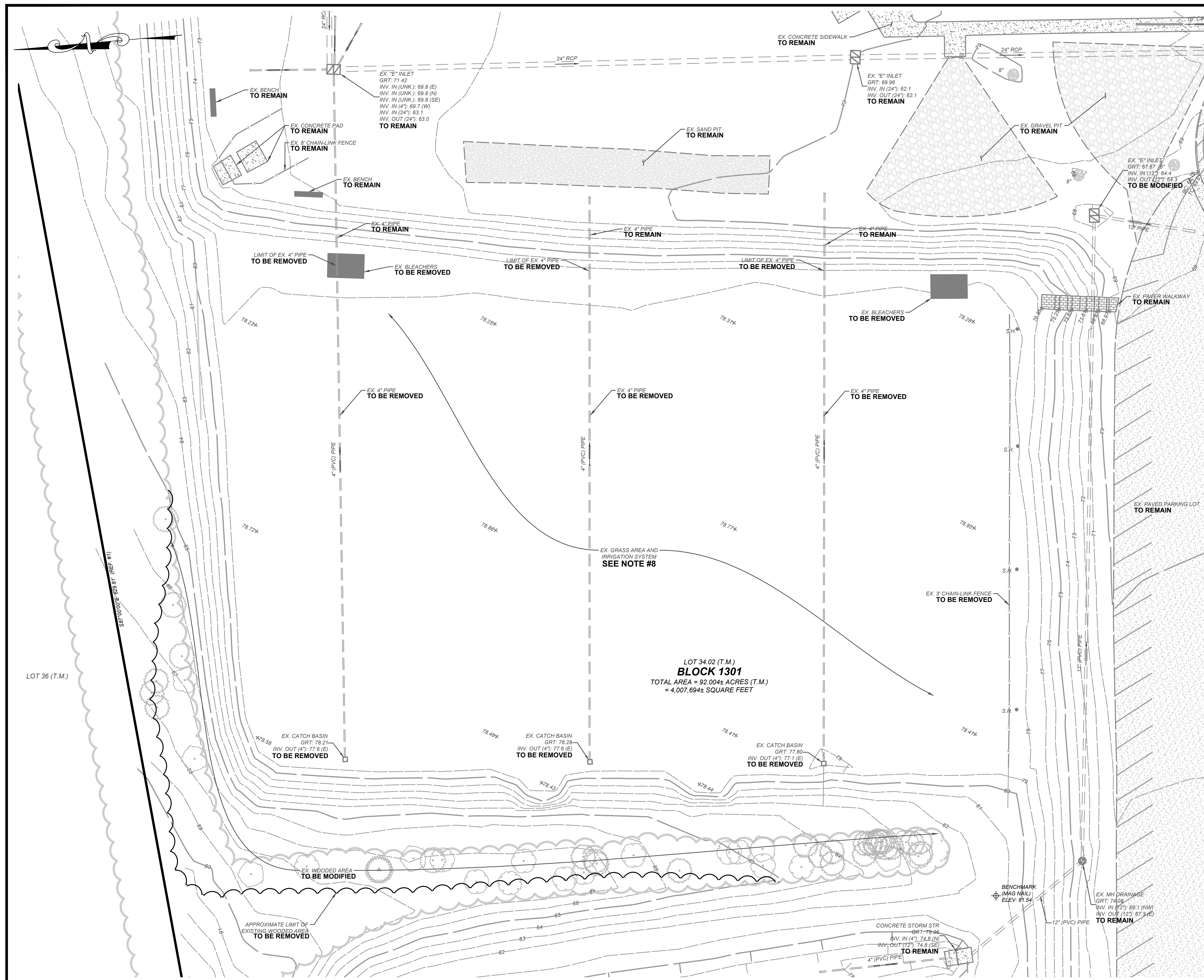
DRAWN BY: AAG 07/26/2021
CHECKED BY: KRJ 07/26/2021
CHECKED BY:
ROBERT GREGORIA, PE
NJ PROFESSIONAL ENGINEER
LICENSE NO. 24GE031365600
DATE: 07/26/2021

DAREN J. PHIL, PE
NJ PROFESSIONAL ENGINEER
LICENSE NO. 24GE03619100
DATE: 07/26/2021

Logo for SUBURBAN CONSULTING ENGINEERS, INC. with contact information: 96 US Highway 206, Suite 101, 2430 Highway 34, Bldg. A Suite 1R, Henders, NJ 07836-9733, 973.398.1776.

NOTRE DAME HIGH SCHOOL (601 LAWRENCE ROAD) SYNTHETIC TURF FIELD IMPROVEMENTS
BLOCK 1301, LOT 34.02 (TAX MAP TOWNSHIP OF LAWRENCE SHEET 13) TOWNSHIP OF LAWRENCE, COUNTY OF MERCER, STATE OF NEW JERSEY
PROJECT NUMBER: SCE-12075.011
SCALE: N.T.S.
SHEET 2 OF 11
REVISION

LEGEND, ZONING, AND GENERAL NOTES



DBH (INCHES)	TREES FOR REMOVAL SPECIES (QUANTITIES)					
	EASTERN WHITE PINE (PINUS STROBUS)	SWEET GUM (LIQUIDAMBAR STYRACIFLUA)	BLACK CHERRY (PRUNUS SEROTINA)	PIN OAK (QUERCUS PALUSTRIS)	BLACK WALNUT (JUGLANS NIGRA)	SASSAFRAS (SASSAFRAS ALBIDUM)
8	3	2	3	-	-	-
9	1	2	-	-	2	-
10	6	2	-	1	1	-
11	5	3	-	-	1	-
12	3	-	1	-	-	1
13	1	-	-	-	-	-
14	-	1	-	-	-	-
15	-	2	-	-	-	-
16	-	-	1	-	1	-
18	1	-	-	-	2	-
19	1	-	-	-	-	-
20	2	-	-	-	-	-
23	1	-	-	-	-	-
24	-	13	5	1	7	1
TOTAL TREES					51	

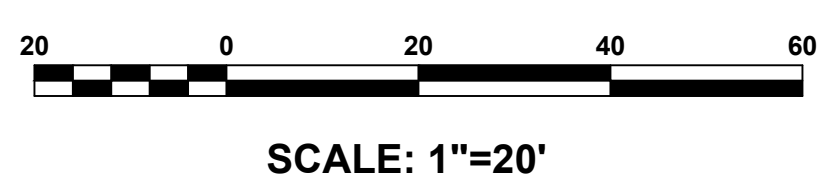
- LEGEND**
- EASTERN WHITE PINE (PINUS STROBUS) TO BE REMOVED
 - SWEET GUM (LIQUIDAMBAR STYRACIFLUA) TO BE REMOVED
 - BLACK CHERRY (PRUNUS SEROTINA) TO BE REMOVED
 - PIN OAK (QUERCUS PALUSTRIS) TO BE REMOVED
 - BLACK WALNUT (JUGLANS NIGRA) TO BE REMOVED
 - SASSAFRAS (SASSAFRAS ALBIDUM) TO BE REMOVED

- REFERENCE:**
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- NOTES:**
- EXISTING CONDITIONS SHOWN HEREON PER "PARTIAL TOPOGRAPHIC SURVEY, NOTRE DAME HIGH SCHOOL, 601 LAWRENCE ROAD - BLOCK 1301, LOT 34.02, TOWNSHIP OF LAWRENCE, MERCER COUNTY, NEW JERSEY" PREPARED BY JOSEPH D. PHIL, PLS OF SUBURBAN CONSULTING ENGINEERS, INC., DATED FEBRUARY 25, 2021. VERTICAL DATUM FOR THE PROJECT IS NAVD-88.
 - ALL EXISTING ITEMS NOT DENOTED "TO REMAIN" OR "TO BE REMOVED" SHALL REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.
 - ALL EXISTING ITEMS TO BE REMOVED AND ITEMS THAT ARE IN CONFLICT WITH THE CONSTRUCTION OF THE NEW IMPROVEMENTS ARE TO BE REMOVED.
 - CONTRACTOR TO PROVIDE TEMPORARY CHAIN-LINK FENCE TO SECURE AND ENCLOSE CONSTRUCTION SITE TO ELIMINATE PUBLIC PEDESTRIAN ACCESS TO CONSTRUCTION AND STAGING AREAS.
 - CONTRACTOR TO VERIFY EXACT LOCATION OF ALL EXISTING UTILITIES AND VERIFY DEPTH. ANY DAMAGE TO EXISTING UTILITIES WILL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.
 - ALL EXISTING STORMWATER UTILITIES (STRUCTURES AND PIPING) THAT ARE NOT DESIGNATED FOR REMOVAL SHALL BE CLEANED AND JETTED AT THE DIRECTION OF THE ENGINEER WITHIN PROJECT LIMITS AND AT CONNECTION POINTS TO STORM SEWER SYSTEM AND TO THE NEXT DOWNSTREAM STRUCTURE. CONTRACTOR TO JET AND CLEAN EXISTING STORMWATER PIPES AT A MINIMUM DISTANCE OF 150' TO THE NEXT DOWNSTREAM STRUCTURE.
 - CONTRACTOR TO BE ADVISED THAT ALL EXISTING TREES, UNLESS DENOTED OTHERWISE, ON-SITE ARE TO REMAIN. ANY NECESSARY REMOVAL OF EXISTING PLANT MATERIAL MUST BE JUSTIFIED AND CONFIRMED WITH THE PROJECT ENGINEER AND LANDSCAPE ARCHITECT PRIOR TO ACTUAL REMOVAL.
 - CONTRACTOR TO NOTE THAT THERE IS AN EXISTING IRRIGATION SYSTEM AT THE PROJECT SITE. HOWEVER, THE LOCATION IS UNKNOWN. CONTRACTOR TO LOCATE IRRIGATION LINE FOR PROPOSED WORK (SEE SITE PLANS).
 - FROM THE ABOVE TABLE, THERE WERE NO SPECIMEN TREES FOUND ON SITE. ALL TREES ARE LESS THAN 30" DBH.

LOT 36 (T.M.)

LOT 34.02 (T.M.)
BLOCK 1301
 TOTAL AREA = 92.004± ACRES (T.M.)
 = 4,007,694± SQUARE FEET



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CHECKED BY:
KRD
07/26/2021
CHECKED BY:

ROBERT GREGORIA, PE
 NJ PROFESSIONAL ENGINEER
 LICENSE NO. 24GE03365600
 DATE: 07/26/2021

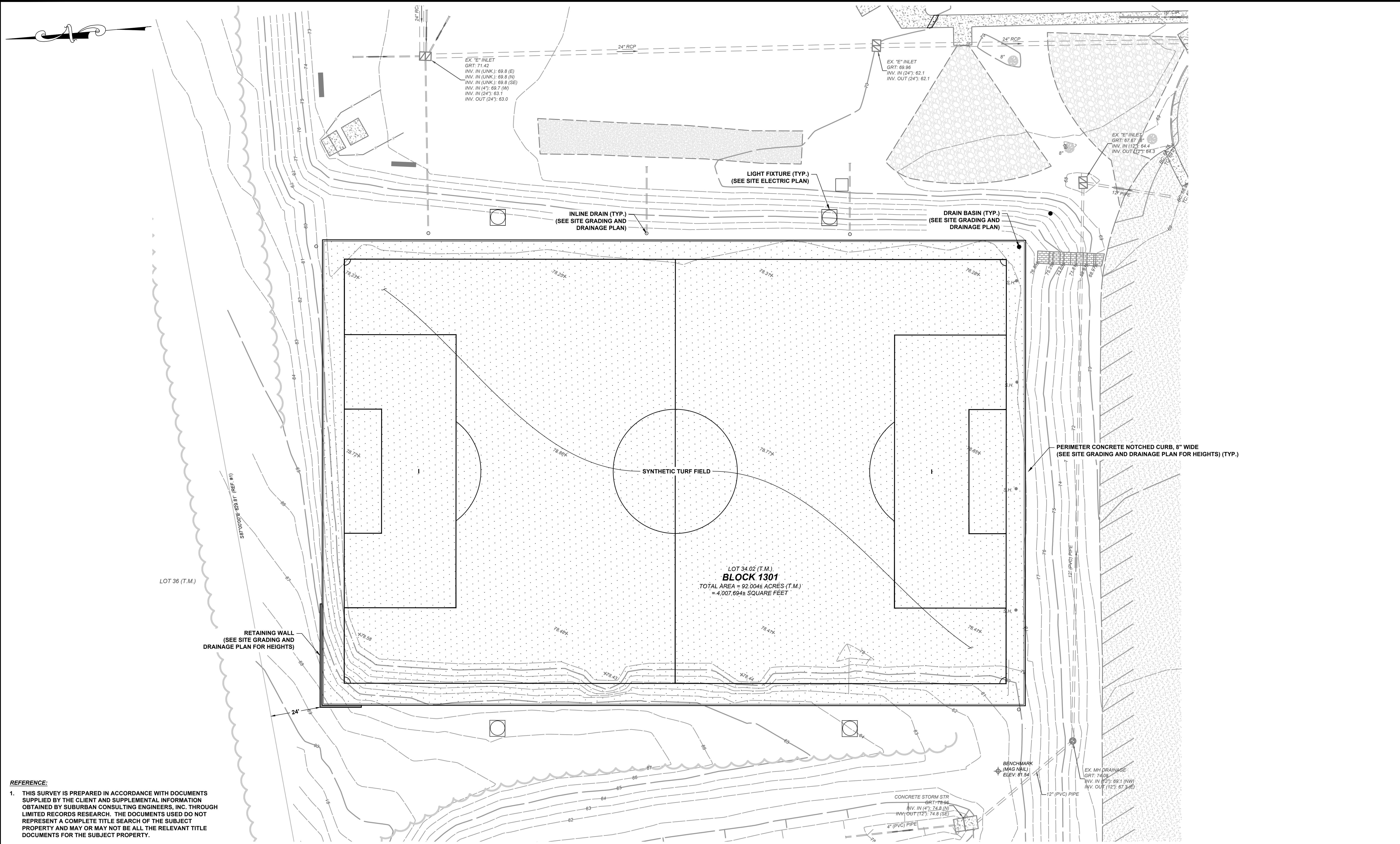
DAREN J. PHIL, PE
 NJ PROFESSIONAL ENGINEER
 LICENSE NO. 24GE03619100
 DATE: 07/26/2021

SE SUBURBAN CONSULTING ENGINEERS, INC.
 COA NO. 24G128037500
 2101100092904
 - Civil Engineers - Municipal Engineers
 - Planners - Environmentalists - Land Surveyors
 - Landscape Architects -
 96 US Highway 206, Suite 101 2430 Highway 34, Bldg. A State 1R
 Hlanders, N.J. 07836 - 973.398.1776 Wall, N.J. 08736 - 732.282.1776
 EXCELLENCE ♦ ECONOMY ♦ ENVIRONMENT

NOTRE DAME HIGH SCHOOL (601 LAWRENCE ROAD)
SYNTHETIC TURF FIELD IMPROVEMENTS
 BLOCK 1301, LOT 34.02 (TAX MAP TOWNSHIP OF LAWRENCE SHEET 13)
 TOWNSHIP OF LAWRENCE, COUNTY OF MERCER, STATE OF NEW JERSEY
EXISTING CONDITIONS AND DEMOLITION PLAN

PROJECT NUMBER:
SCE-12075.011
 SCALE:
1"=20'
 SHEET 3 OF 11
 REVISION

E:\SCE\Lawrence\12075.011 Lawrence\Sheets\12075.011 04 Site Layout Plan.dwg Tue, Jul 27, 2021 10:20am agonzalez SUBURBAN CONSULTING ENGINEERS, INC.



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SCALE: 1"=20'

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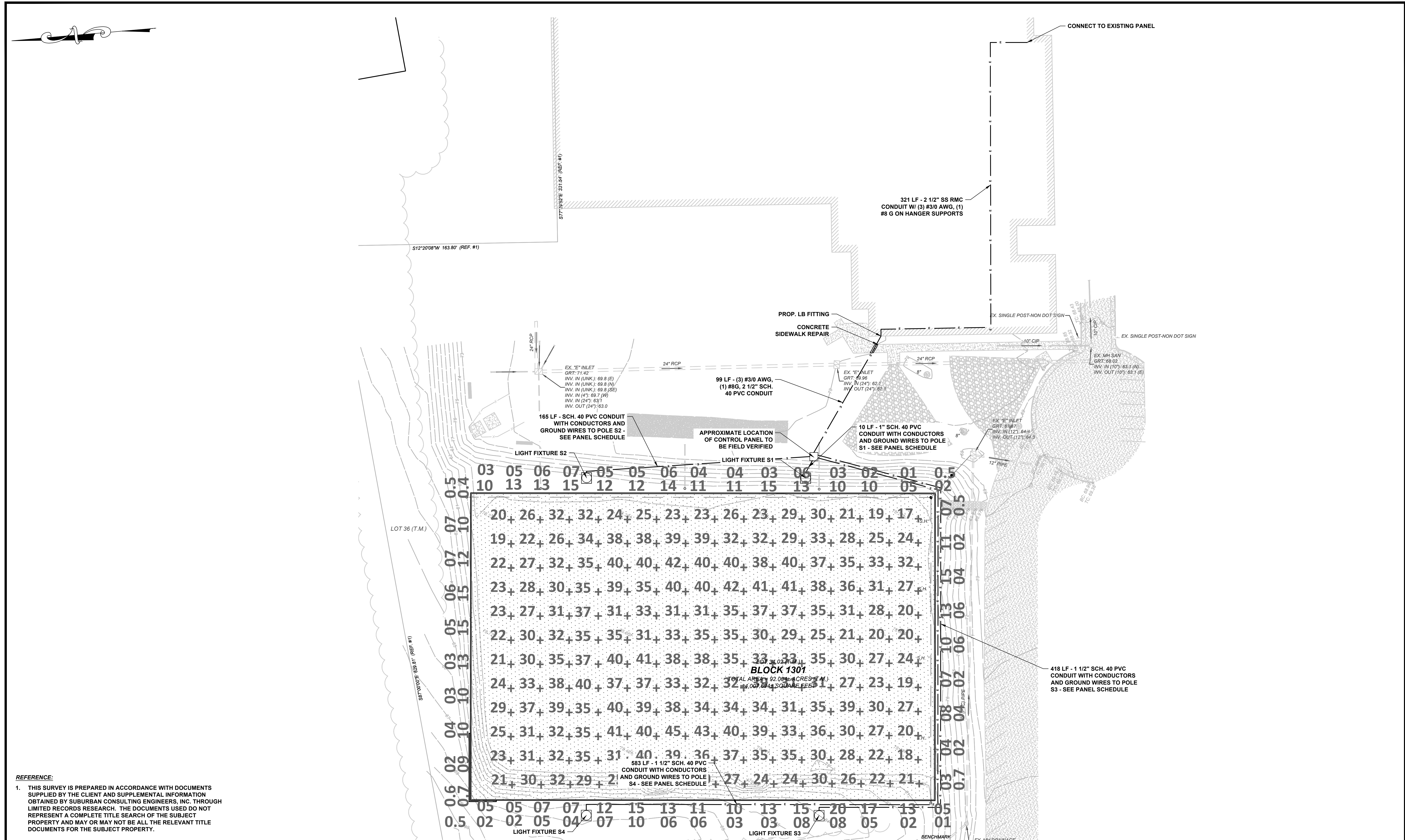
DAREN J. PHIL, PE
 NJ PROFESSIONAL ENGINEER
 LICENSE NO. 24GE03619100
 DATE: 07/26/2021

SC ENGINEERS, INC.
 SUBURBAN CONSULTING ENGINEERS, INC.
 COA NO.: 24G128037500
 211110004294
 - Civil Engineers - Municipal Engineers
 - Landscape Architects -
 - Planners - Environmentalists - Land Surveyors -
 96 US Highway 206, Suite 301 2430 Highway 34, Bldg. A Suite 1R
 Henders, N.J. 07836-9733 308.1776 Wall, N.J. 08736-7322 282.1776
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NOTRE DAME HIGH SCHOOL (601 LAWRENCE ROAD)
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 TOWNSHIP OF LAWRENCE, COUNTY OF MERCER, STATE OF NEW JERSEY
 PROJECT NUMBER: SCE-12075.011
 SCALE: 1"=20'
 SHEET 4 OF 11
 REVISION

PROJECT NUMBER: SCE-12075.011
SCALE: 1"=20'
SHEET 4 OF 11
REVISION

E:\SCE\Lawrence\12075\011 Lawrence\Sheets\12075.011 06 Site Electric Plan.dwg Tue Jul 27, 2021 1:25pm kdama SUBURBAN CONSULTING ENGINEERS, INC.



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SCALE: 1"=30'

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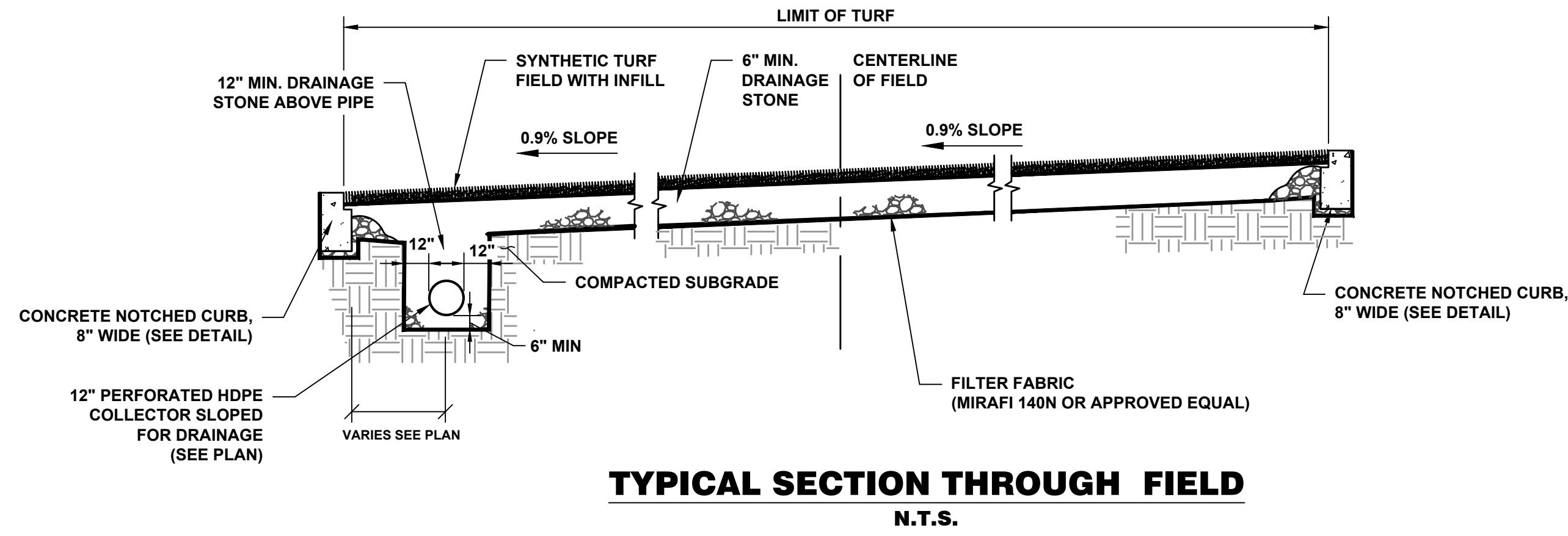
ROBERT GREGORIA, PE
 NJ PROFESSIONAL ENGINEER
 LICENSE NO. 24GE03365600
 DATE: 07/26/2021

DAREN J. PHIL, PE
 NJ PROFESSIONAL ENGINEER
 LICENSE NO. 24GE03619100
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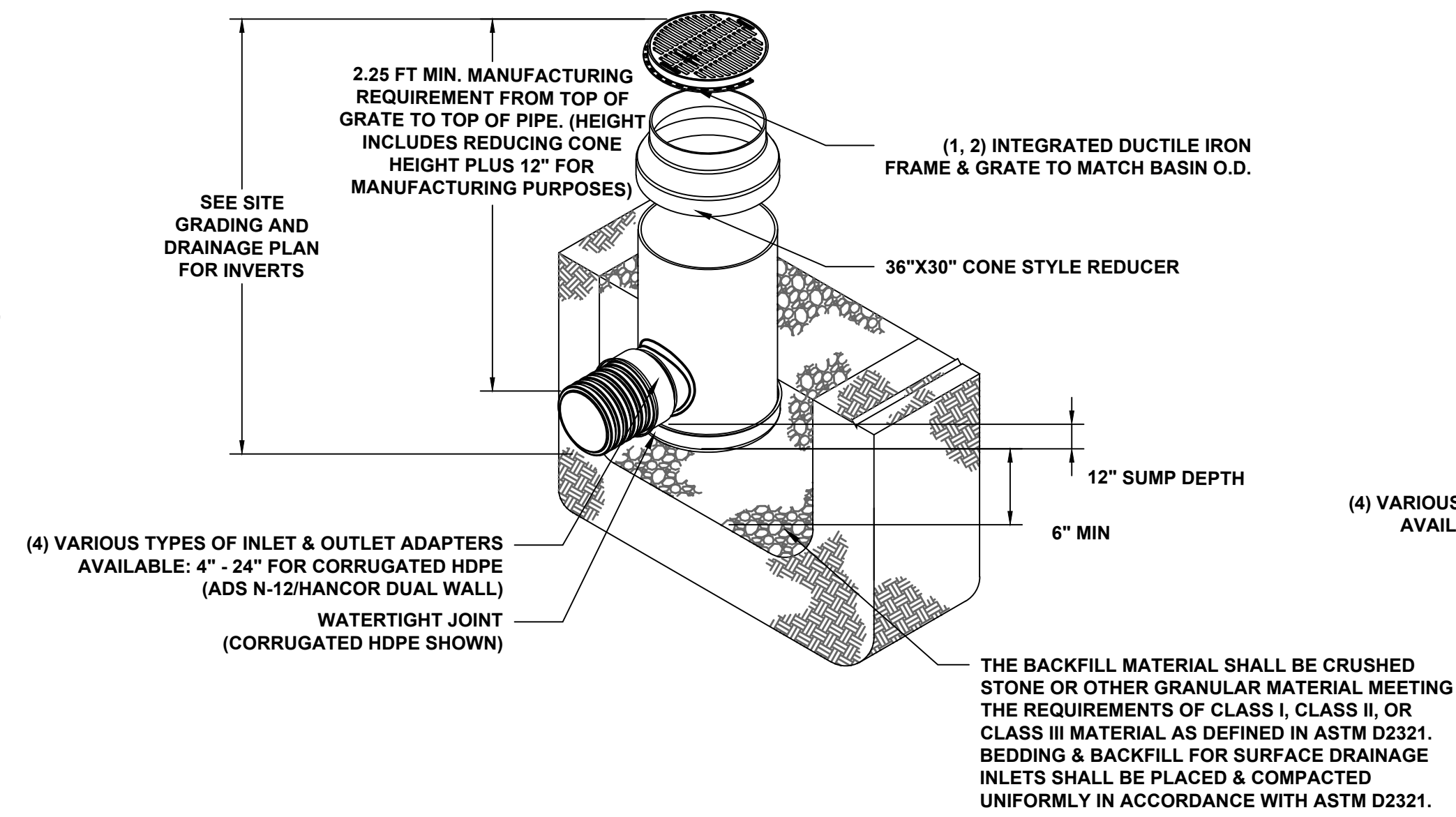
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 COA NO: 24G128037500
 210110004200
 - Civil Engineers - Municipal Engineers
 - Landscape Architects
 - Planners - Environmentalists - Land Surveyors
 96 US Highway 206, Suite 301 2430 Highway 34, Bldg. A Suite 1R
 Hammers, N.J. 07836 - 973.398.1776 Wall, N.J. 08756 - 732.282.1776
 EXCELLENCE ♦ ECONOMY ♦ ENVIRONMENT

NOTRE DAME HIGH SCHOOL (601 LAWRENCE ROAD)
SYNTHETIC TURF FIELD IMPROVEMENTS
 BLOCK 1301, LOT 34.02 (TAX MAP TOWNSHIP OF LAWRENCE SHEET 13)
 TOWNSHIP OF LAWRENCE, COUNTY OF MERCER, STATE OF NEW JERSEY
 PROJECT NUMBER:
SCE-12075.011
 SCALE:
1"=30'
 SHEET 6 OF 11
 REVISION

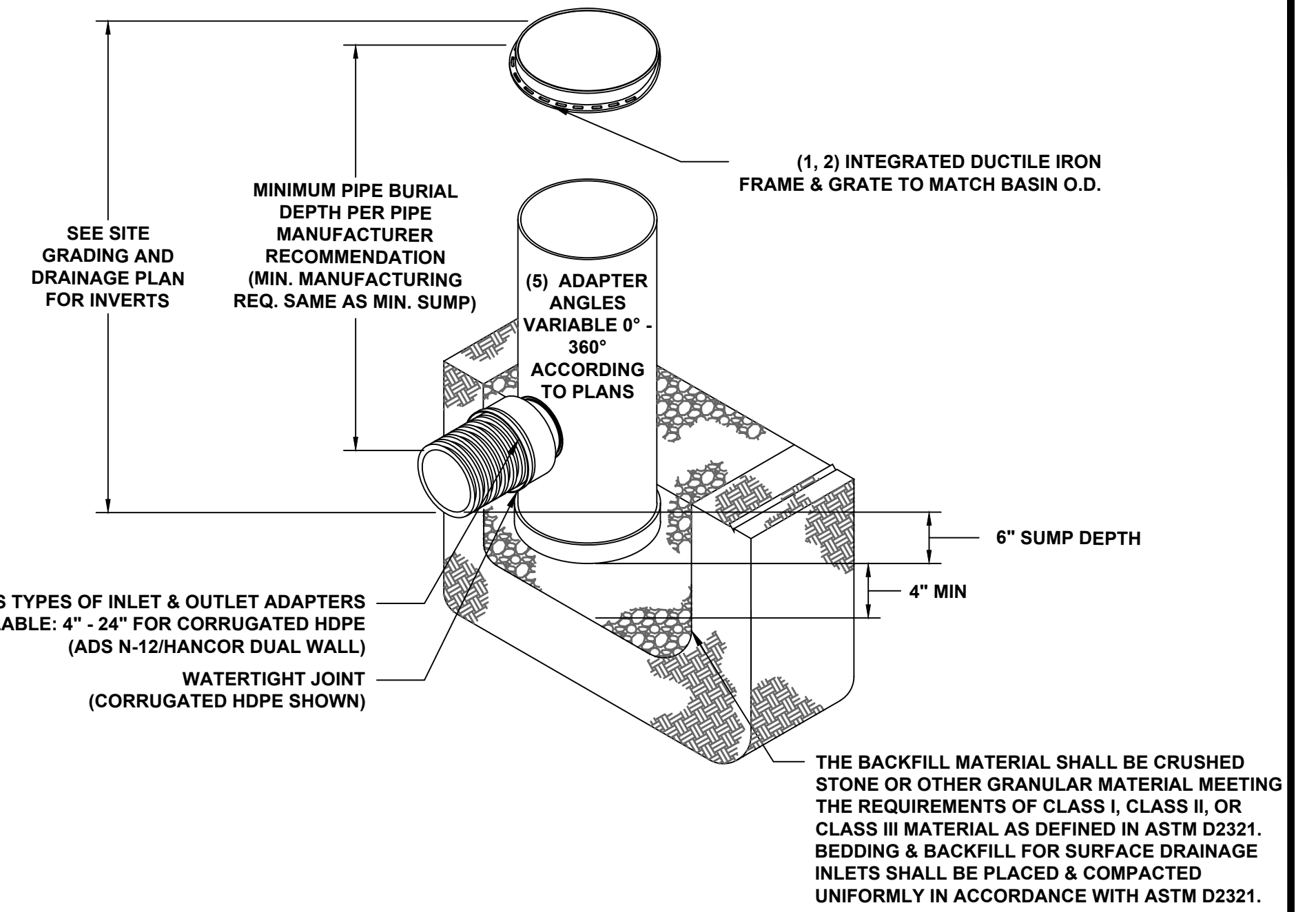
PROJECT NUMBER:
SCE-12075.011
 SCALE:
1"=30'
 SHEET 6 OF 11
 REVISION



TYPICAL SECTION THROUGH FIELD
N.T.S.



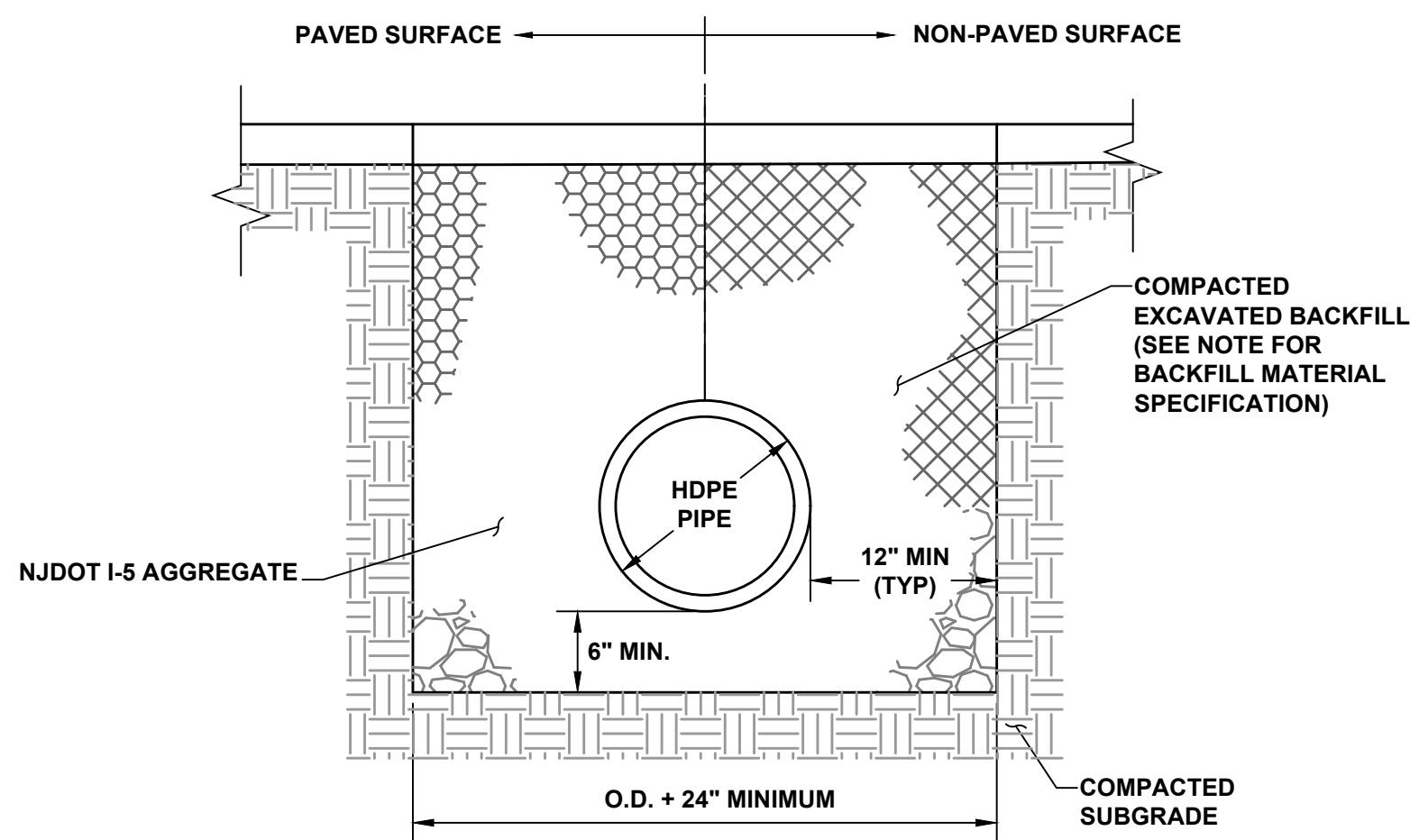
36" DRAIN BASIN
N.T.S.



24" DRAIN BASIN
N.T.S.

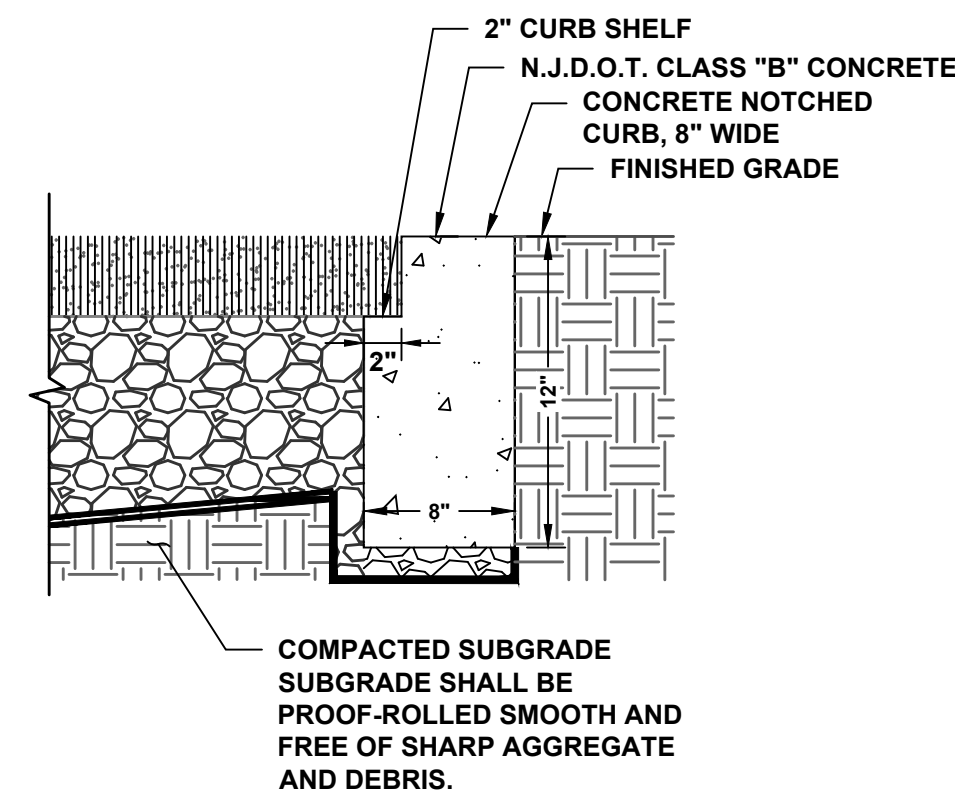
- NOTES:**
- SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05. DRAIN BASIN TO BE BURIED UNDER TURF.
 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS.
 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL).
 - 36" DRAIN BASIN WITH CONE STYLE REDUCER TO BE MANUFACTURED BY NYLOPLAST, OR APPROVED EQUAL.

- NOTES:**
- GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS.
 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL).
 - 24" DRAIN BASIN TO BE MANUFACTURED BY NYLOPLAST, OR APPROVED EQUAL.

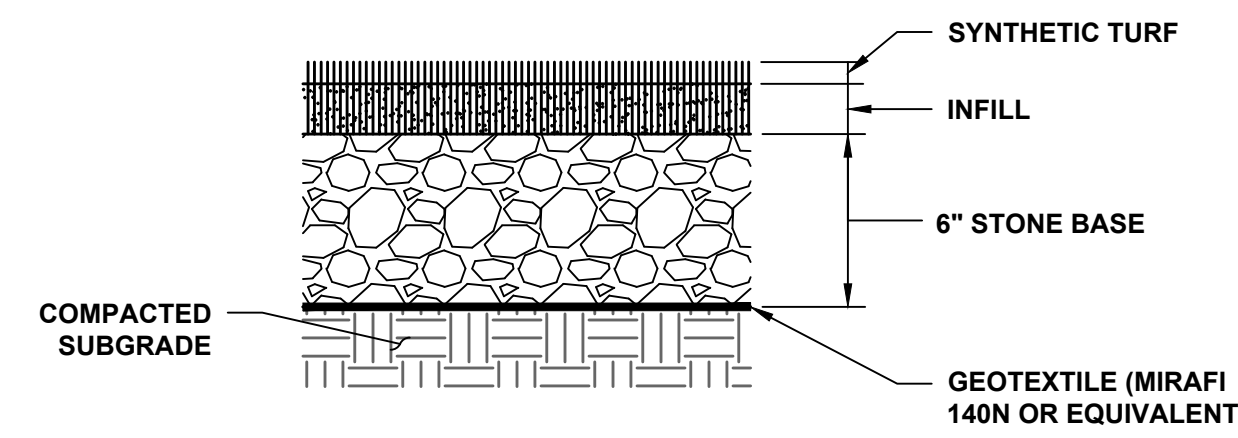


- NOTES:**
BACKFILL SPECIFICATION
- SHALL BE FREE OF DEBRIS AND STONES 2" OR GREATER IN ANY DIMENSION.
 - SHALL BE PLACED IN 12" LIFTS AND COMPACTED TO 95% MAXIMUM DENSITY.

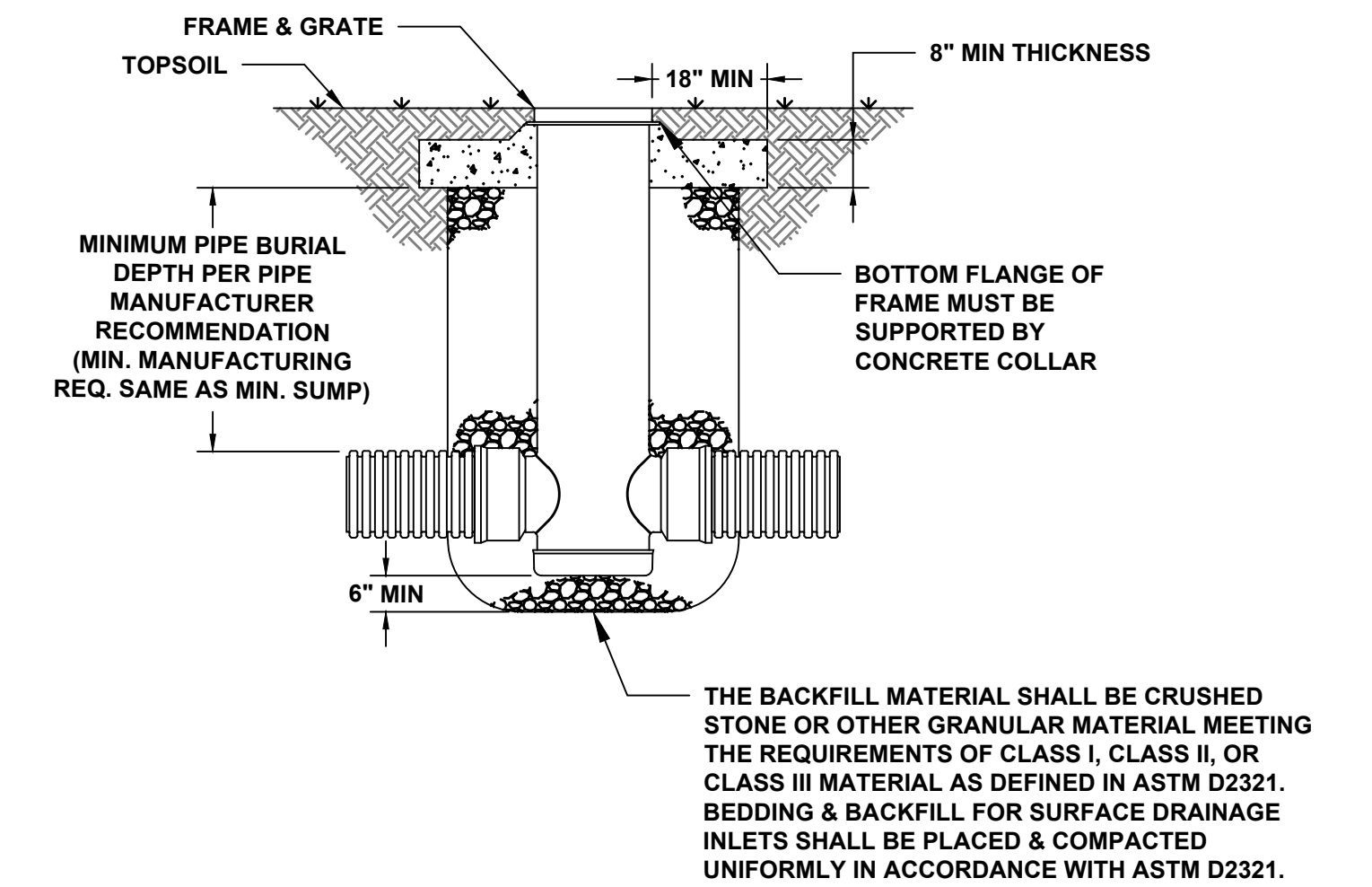
DRAINAGE PIPE TRENCH
N.T.S.



CONCRETE NOTCHED CURB, 8" WIDE
N.T.S.



SYNTHETIC TURF SYSTEM DETAIL
N.T.S.



- NOTES:**
- STANDARD GRATES SHALL MEET H-20 LOAD RATING.
 - DESIGN SHOULD ACCOUNT FOR ROOT DEPTH TO ALLOW TURF TO GROW AND PREVENT EROSION AROUND GRATE SO THAT HAZARDS DO NOT FORM.
 - CONTRACTOR TO INSTALL 12" INLINE DRAIN AND 24" INLINE DRAIN AS INDICATED ON THE SITE GRADING AND DRAINAGE PLAN.
 - 12" INLINE DRAIN AND 24" INLINE DRAIN TO BE MANUFACTURED BY NYLOPLAST OR APPROVED EQUAL.

INLINE DRAIN
N.T.S.

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CHECKED BY: KRD 07/26/2021
CHECKED BY:

ROBERT GREGORIA, PE NJ PROFESSIONAL ENGINEER LICENSE NO. 24GE03365600
DATE: 07/26/2021

DAREN J. PHIL, PE NJ PROFESSIONAL ENGINEER LICENSE NO. 24GE03619100
DATE: 07/26/2021

SCS SUBURBAN CONSULTING ENGINEERS, INC.

COA NO.: 24G128037500
2/10/11/00049204

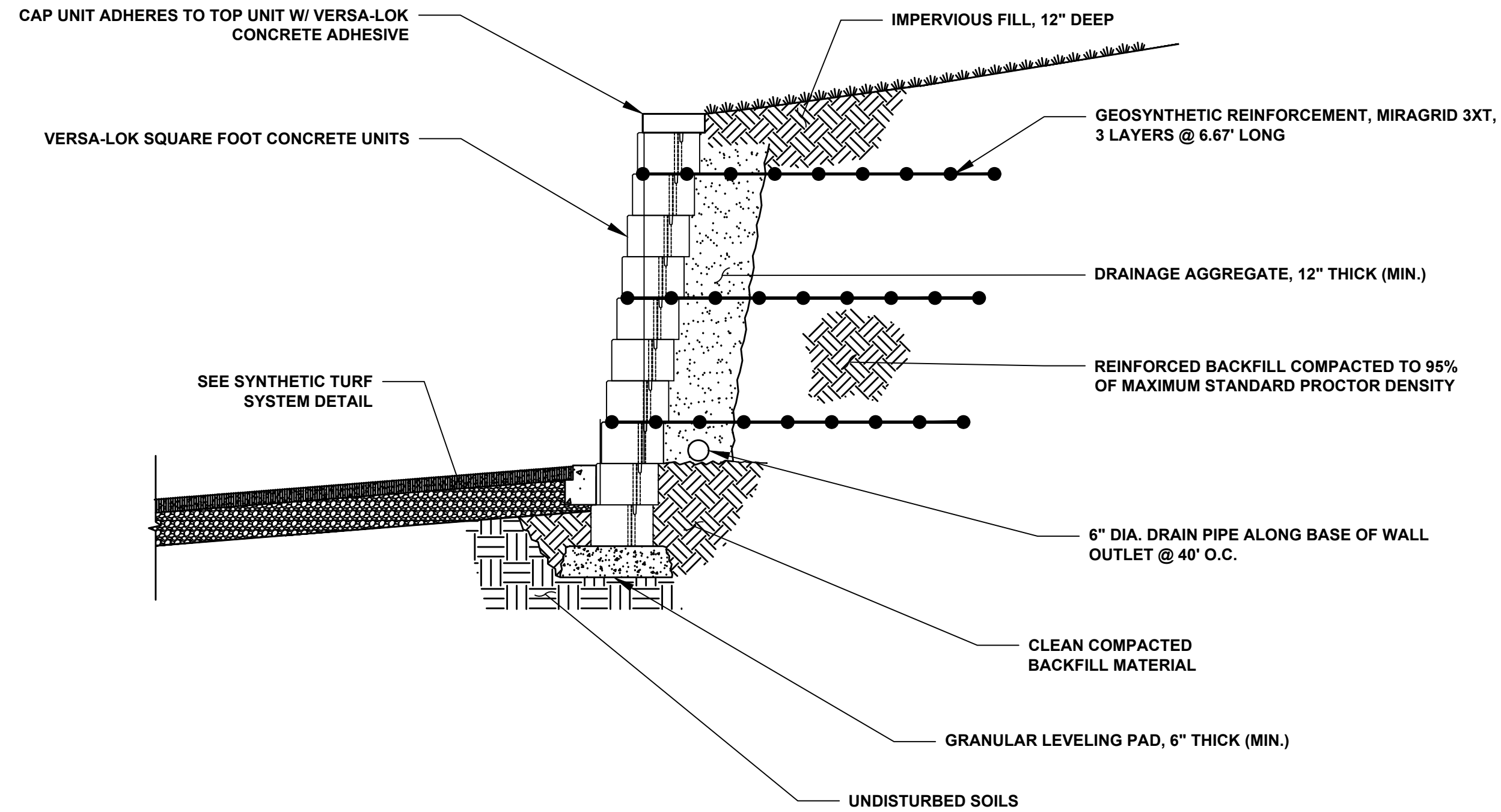
- Civil Engineers - Municipal Engineers
- Planners - Environmentalists - Land Surveyors
- Landscape Architects

96 US Highway 206, Suite 101 2430 Highway 34, Bldg. A Suite 1R
Hinders, N.J. 07836 - 973.398.1776 Wall, N.J. 08736 - 732.282.1776

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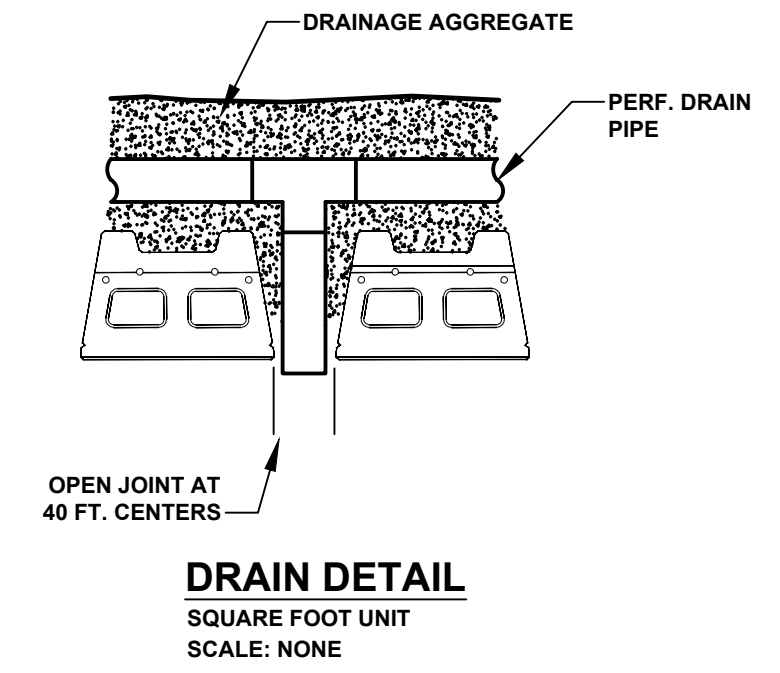
NOTRE DAME HIGH SCHOOL (601 LAWRENCE ROAD) SYNTHETIC TURF FIELD IMPROVEMENTS BLOCK 1301, LOT 34.02 (TAX MAP TOWNSHIP OF LAWRENCE SHEET 13) TOWNSHIP OF LAWRENCE, COUNTY OF MERCER, STATE OF NEW JERSEY
PROJECT NUMBER: SCE-12075.011
SCALE: N.T.S.
SHEET 7 OF 11
REVISION

CONSTRUCTION DETAILS I

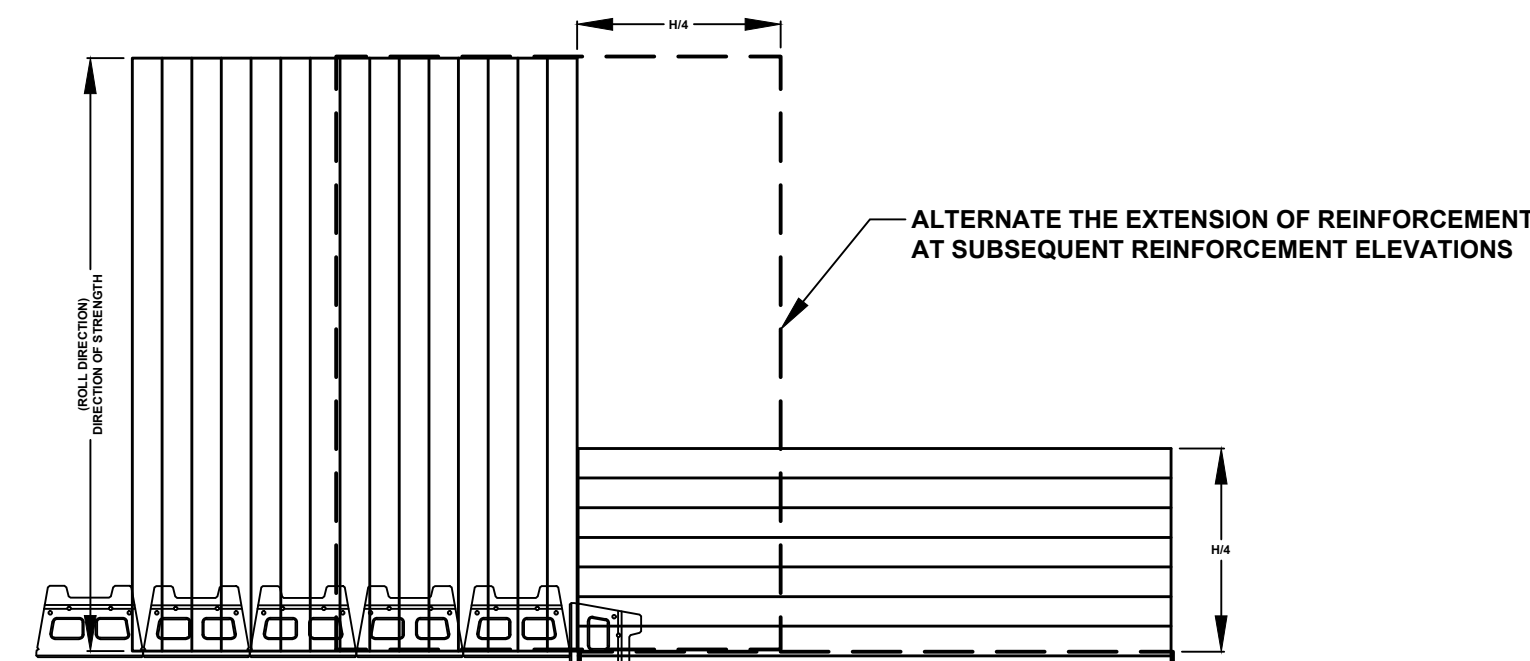


- NOTES:**
1. RETAINING WALL DESIGN BASED ON THE MODULAR BLOCK SYSTEM CHOSEN, SIGN AND SEALED BY A NJ LICENSED PROFESSIONAL ENGINEER SHALL BE PROVIDED BY CONTRACTOR DURING THE SUBMITTAL STAGE OF THE PROJECT.
 2. RETAINING WALL DESIGN SHOWN IS BASED ON "VERSA-LOK" RETAINING WALL AS MANUFACTURED BY VERSA-LOK RETAINING WALL SYSTEMS.

REINFORCED MODULAR RETAINING WALL DETAIL - SECTION
N.T.S.

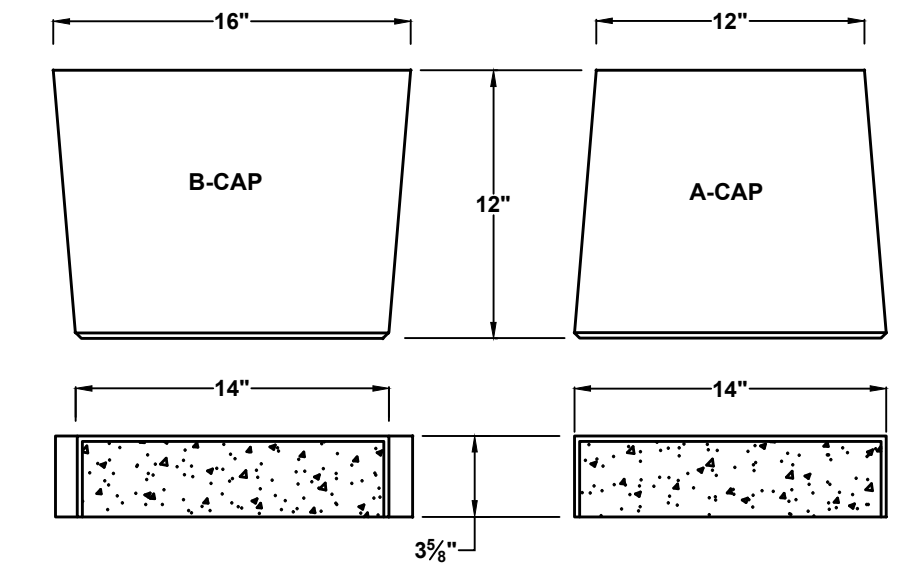


DRAIN DETAIL
SQUARE FOOT UNIT
SCALE: NONE

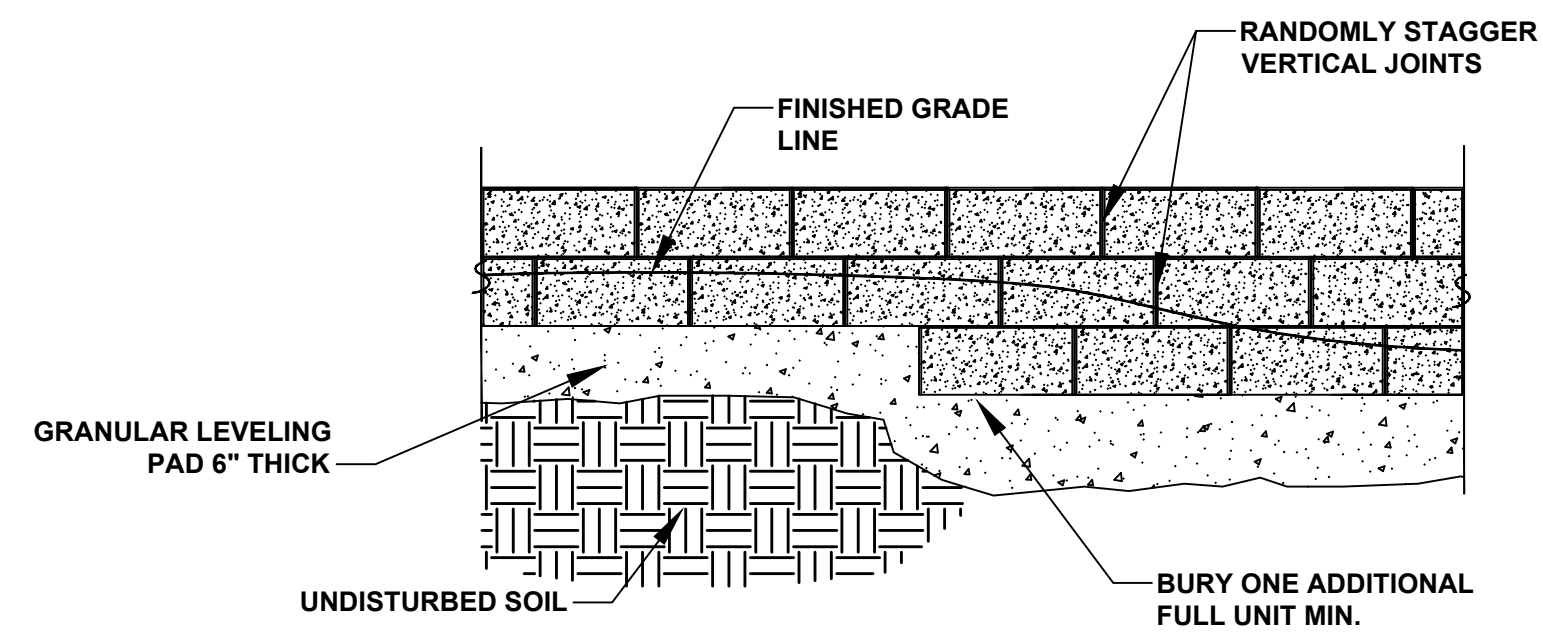


- INSIDE CORNER NOTES:**
1. AT SUBSEQUENT REINFORCEMENT ELEVATIONS EXTEND REINFORCEMENT FROM OPPOSITE WALL FACE.
 2. EXTEND REINFORCEMENT BEYOND WALL FACE A DISTANCE EQUAL TO 1/4 OF THE HEIGHT OF THE WALL (H).

GEOSYNTHETIC PLACEMENT
SQUARE FOOT UNIT-INSIDE CORNER
SCALE: NONE

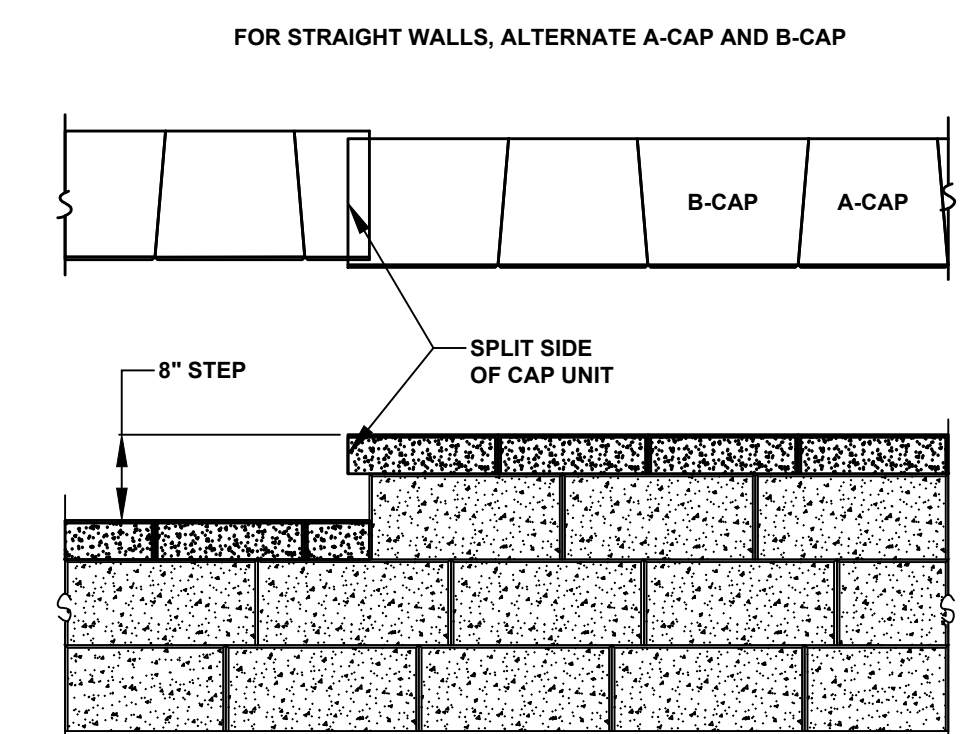


VERSA-LOK CAP UNITS
UNIT DIMENSIONS
SCALE: NONE

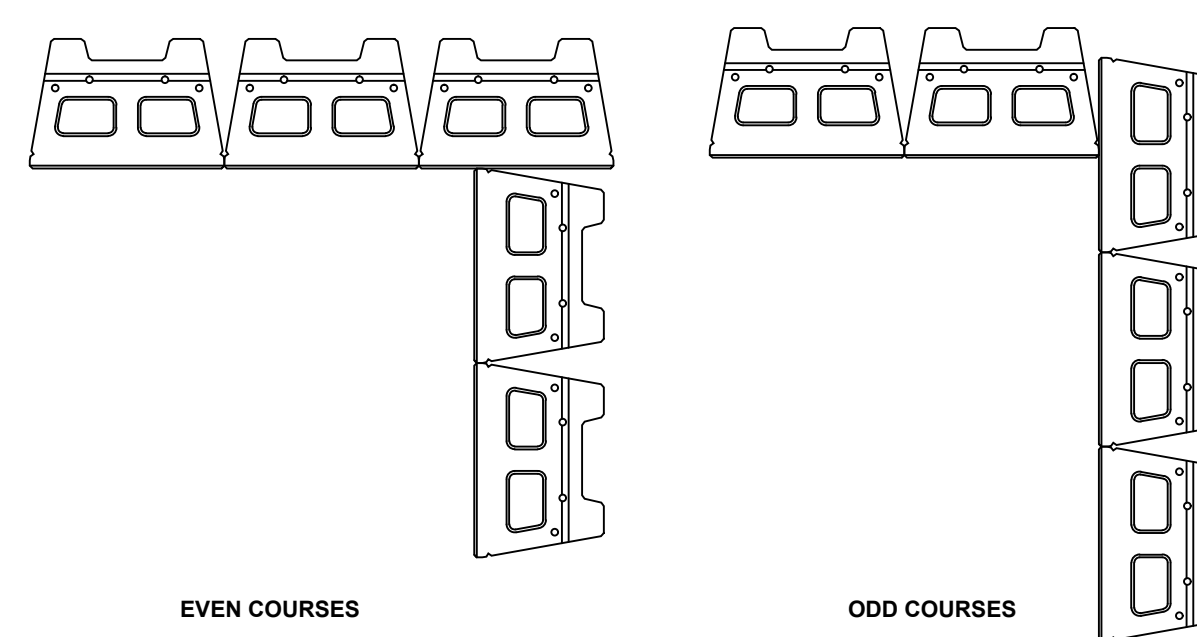


- NOTES:**
1. LIMIT CHANGES IN BASE ELEVATION TO 8" PER STEP TO AVOID DIFFERENTIAL SETTLEMENT.
 2. STEP AS NEEDED TO MINIMIZE BURRIED UNITS AND MAINTAIN MINIMUM REQUIRED EMBEDMENT.

STEPPING BASE DETAIL
SQUARE FOOT UNIT
SCALE: NONE



CAPPING DETAIL-PROFILE
SQUARE FOOT UNIT-STEP AT TOP OF WALL
SCALE: NONE



CORNER DETAIL
SQUARE FOOT UNIT-90° INSIDE
SCALE: NONE

E:\SCE\Lawrence\12075.011 Lawrence\Sheets\12075.011 08 Construction Details II.dwg Tue, Jul 27, 2021 - 10:21am agonzalez SUBURBAN CONSULTING ENGINEERS, INC.

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CHECKED BY:	

ZHAN H. DING, PE
NJ PROFESSIONAL ENGINEER
LICENSE NO. 24GE04736300

DATE: 07/26/2021

DAREN J. PHIL, PE
NJ PROFESSIONAL ENGINEER
LICENSE NO. 24GE03619100

DATE: 07/26/2021

SCE SUBURBAN CONSULTING ENGINEERS, INC.

COA NO.: 24G128037500
2/11/10094294

- Civil Engineers - Municipal Engineers
- Planners - Environmentalists - Land Surveyors
- Landscape Architects

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Hinders, N.J. 07836 - 973.398.1776 Wall, N.J. 08756 - 732.282.1776

EXCELLENCE ♦ ECONOMY ♦ ENVIRONMENT

NOTRE DAME HIGH SCHOOL (601 LAWRENCE ROAD)
SYNTHETIC TURF FIELD IMPROVEMENTS
BLOCK 1301, LOT 34.02 (TAX MAP TOWNSHIP OF LAWRENCE SHEET 13)
TOWNSHIP OF LAWRENCE, COUNTY OF MERCER, STATE OF NEW JERSEY

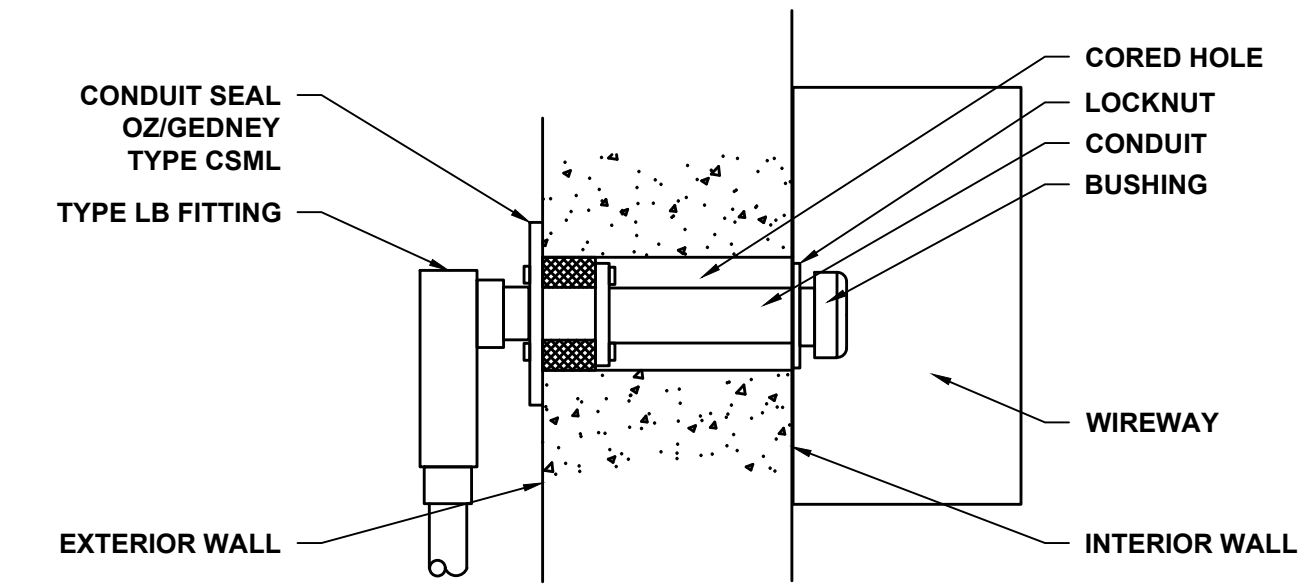
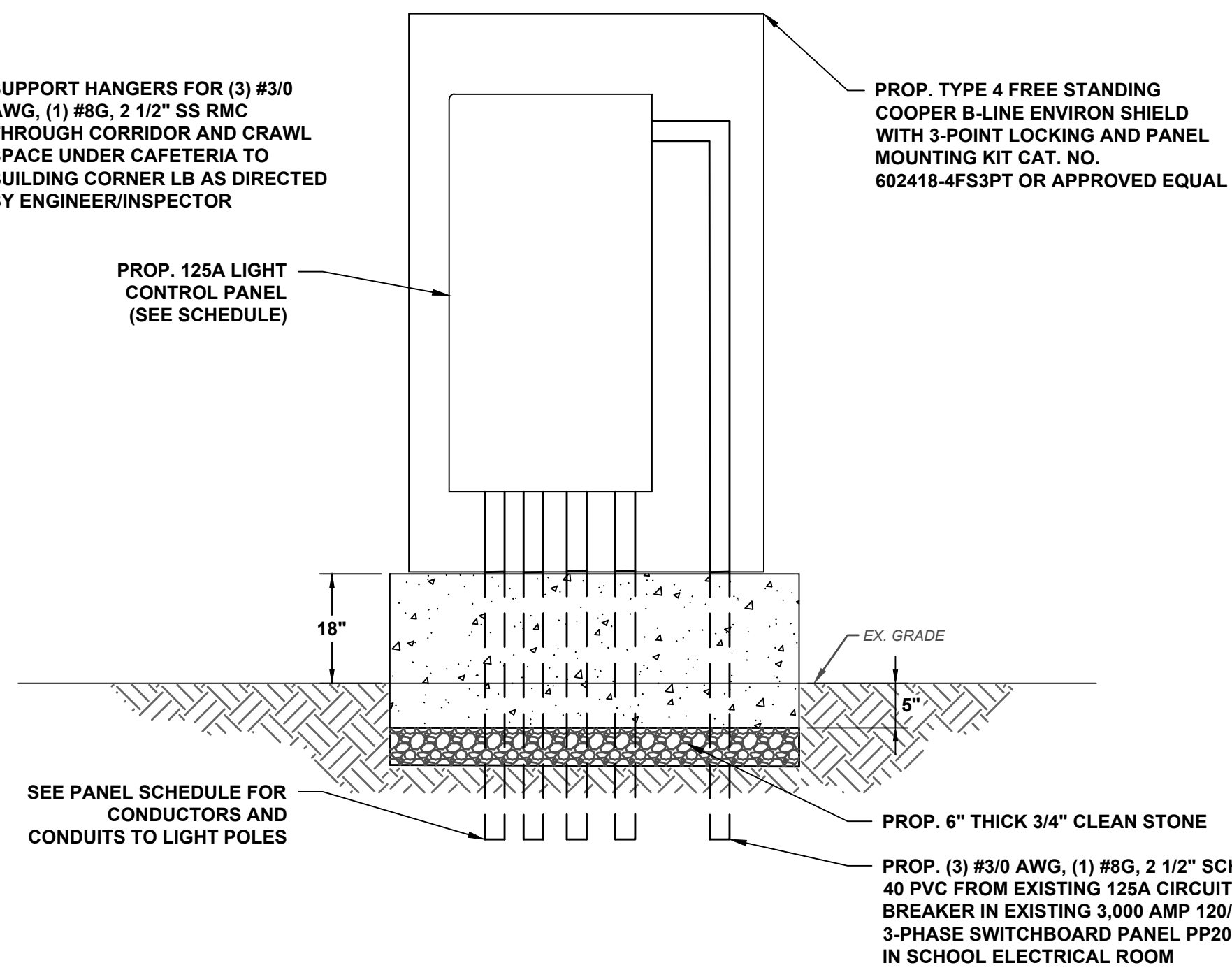
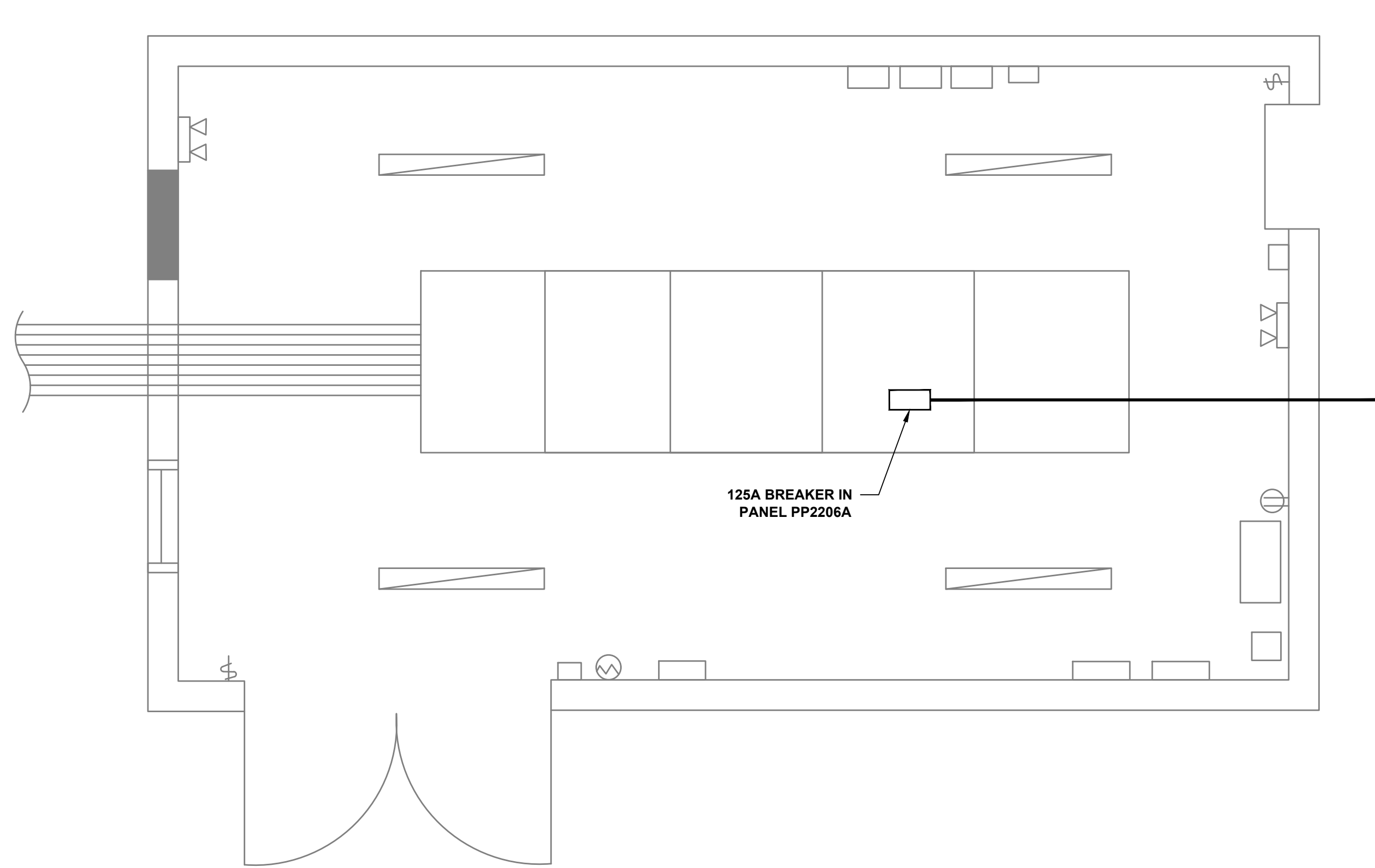
PROJECT NUMBER:
SCE-12075.011

SCALE:
N.T.S.

SHEET **8** OF **11**

REVISION

CONSTRUCTION DETAILS II



BLOCK/CONCRETE WALL CONDUIT PENETRATION

N.T.S.

PROP. 125 AMP FIELD LIGHTING PANEL									
120/208V/3Ø/4W									
SERVES	WIRE/CONDUIT	A	POLE	CKTR	CKTR	POLE	A	WIRE/CONDUIT	SERVES
POLE S1 TOP ROW	(3) #12AWG, (1) #14G, 1" C	25	3	1	2	3	25	(3) #12AWG, (1) #14G, 1" C	POLE S2 TOP ROW
				3	4	4			
				5	6	5			
POLE S1 MID ROW	(3) #12AWG, (1) #14G, 1" C	25	3	7	8	3	25	(3) #12AWG, (1) #14G, 1" C	POLE S2 MID ROW
				9	10	9			
				11	12	11			
POLE S1 LOW ROW	(3) #12AWG, (1) #14G, 1" C	25	3	13	14	3	25	(3) #12AWG, (1) #14G, 1" C	POLE S2 LOW ROW
				15	16	15			
				17	18	17			
POLE S3 TOP ROW	(3) #8AWG, (1) #14G, 1 1/2" C	25	3	19	20	3	25	(3) #8AWG, (1) #12G, 1 1/2" C	POLE S4 TOP ROW
				21	22	21			
				23	24	23			
POLE S3 MID ROW	(3) #12AWG, (1) #14G, 1 1/2" C	25	3	25	26	3	25	(3) #8AWG, (1) #12G, 1 1/2" C	POLE S4 MID ROW
				27	28	27			
				29	30	29			
POLE S3 LOW ROW	(3) #12AWG, (1) #14G, 1 1/2" C	25	3	31	32	3	25	(3) #8AWG, (1) #12G, 1 1/2" C	POLE S4 LOW ROW
				33	34	33			
				35	36	35			
SPARE				37	38				SPARE
				39	40				
				41	42				
SPARE				43	44				SPARE
				45	46				
				47	48				

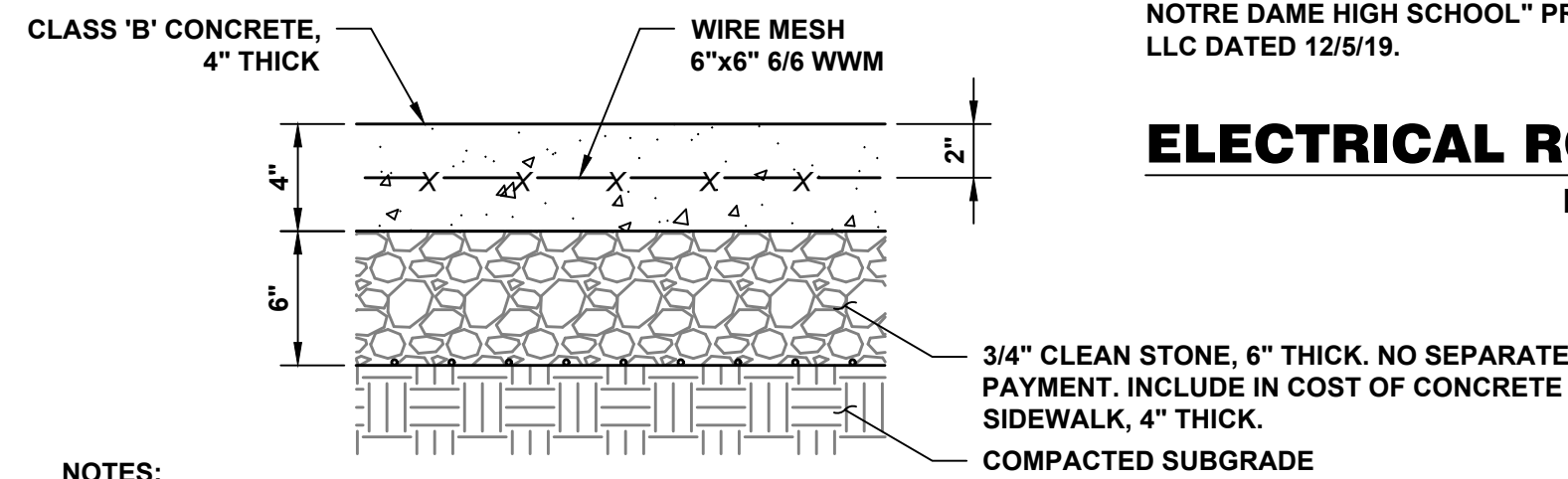
CONTROL PANEL SCHEDULE

N.T.S.

- NOTE:
- ELECTRICAL ROOM FLOOR PLAN PER PLANS ENTITLED "ELECTRICAL FLOOR PLANS, NOTES AND DIAGRAMS FOR PHASE II ELECTRICAL SERVICE UPGRADE NOTRE DAME HIGH SCHOOL" PREPARED BY MPE CONSULTING AND DESIGN LLC DATED 12/5/19.

ELECTRICAL ROOM FLOOR PLAN

N.T.S.



NOTES:

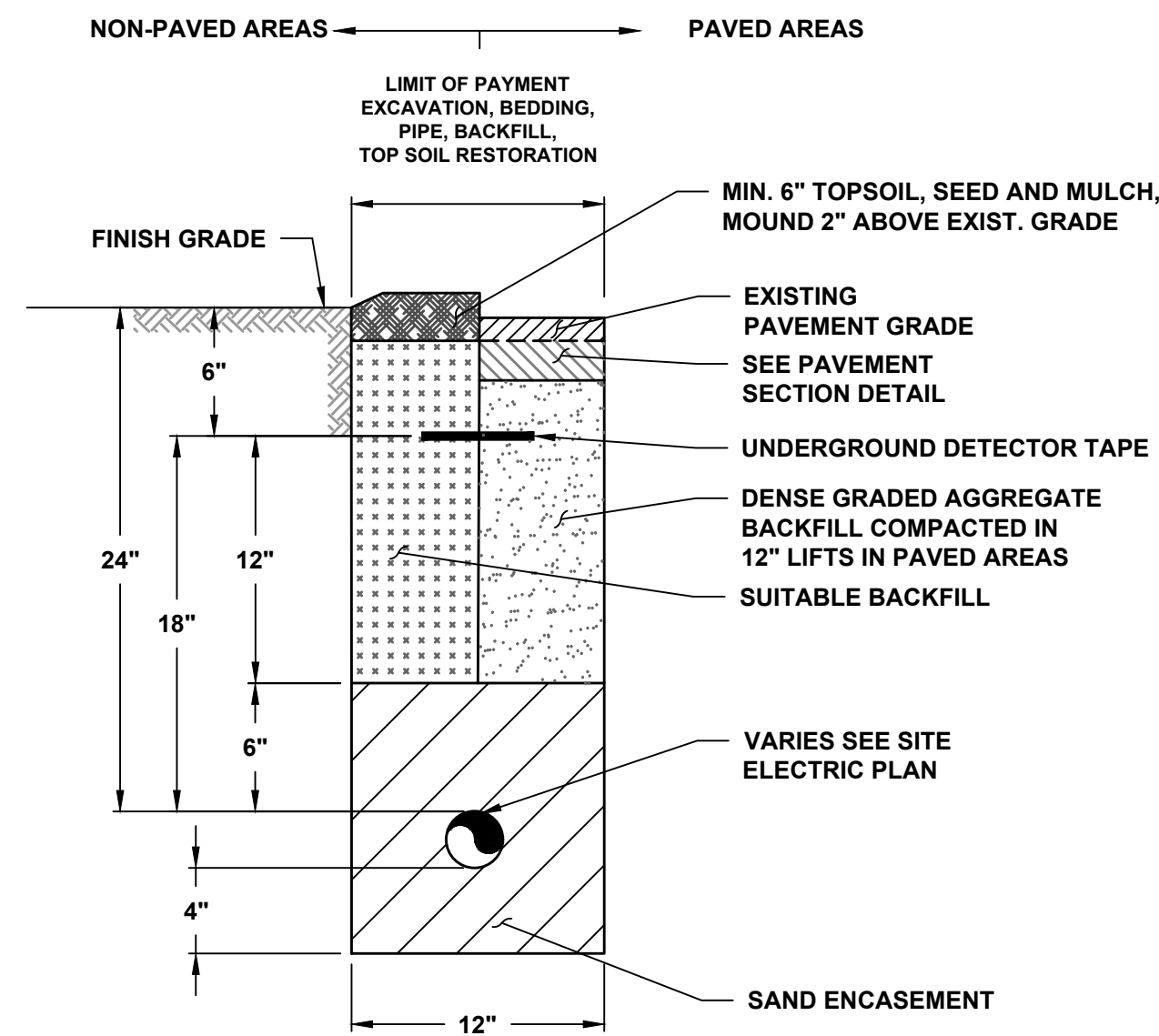
- SUBBASE SHALL BE COMPACTED TO THE SATISFACTION OF THE ENGINEER.
- EXPANSION JOINTS OF 1/2" WIDE BITUMINOUS CELLULAR TYPE JOINT FILLER WILL BE PROVIDED EVERY 12' MAX IN BOTH DIRECTIONS.
- LONGITUDINAL JOINTS, 1/4" WIDE, SHALL BE PROVIDED BETWEEN CURBS AND ABUTTING SIDEWALKS AND SHALL BE FILLED WITH PREMOLDED BITUMINOUS TYPE JOINT FILLER.
- TRANSVERSE SURFACE GROOVES SHALL BE CUT IN SIDEWALKS BETWEEN EXPANSION JOINTS AT INTERVALS EQUAL TO THE SIDEWALK WIDTH.
- ALL CONCRETE SHALL BE CLASS 'B' AIR ENTRAINED.
- ALL JOINTS AND EDGES ARE TO BE TOOLED.
- SURFACE SHALL BE BRUSHED TRANSVERSELY TO A NEAT FINISH.
- LIQUID MEMBRANE FORMING CURING COMPOUND SHALL BE APPLIED IN COMPLIANCE WITH N.J.D.O.T. SPECS.

CONCRETE SIDEWALK REPAIR

N.T.S.

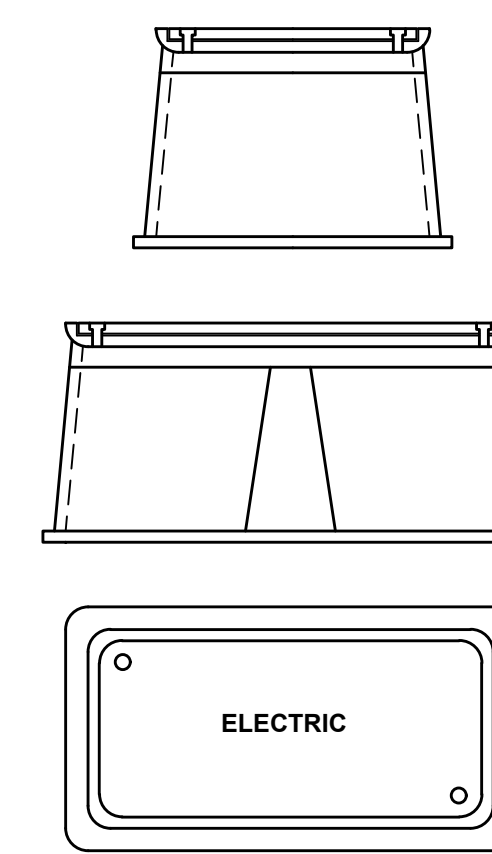
GENERAL ELECTRICAL CONSTRUCTION NOTES

- RISER DIAGRAM ON THIS DRAWING IS FOR DESIGN PURPOSES ONLY. CONTRACTOR SHALL PROVIDE A COMPLETE RISER DIAGRAM WITH ACTUAL FIELD WIRING REQUIRED, BASED ON FIELD CONDITIONS SUBMITTED FOR APPROVAL.
- THE CONTRACTOR IS RESPONSIBLE TO VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING SITE AND FIELD CONDITIONS THAT MAY AFFECT THE WORK.
- THE CONTRACTOR SHALL OBTAIN REQUIRED ELECTRICAL PERMITS AND APPROVALS OF CONSTRUCTION.
- THE CONTRACTOR SHALL COORDINATE THE ELECTRICAL WORK WITH THE LOCAL CODE OFFICIAL AND PSE&G AS MAY BE NECESSARY.
- MINIMUM SIZE OF CONDUITS FOR POWER CIRCUITS SHALL BE 3/4" PVC, UNLESS OTHERWISE SHOWN. ALL CABLES SHALL BE OF TYPE TTHN/THWN AND MINIMUM SIZE FOR POWER CIRCUITS SHALL BE # 14 AWG.
- PULL AND JUNCTION BOXES WHERE INDICATED ON THE DRAWINGS SHALL BE CONSIDERED AT THEIR APPROXIMATE LOCATION. THE CONTRACTOR SHALL LOCATE THEM AS FIELD CONDITIONS DICTATE AND PROVIDE ANY ADDITIONAL BOXES NOT SHOWN AS MAY BE REQUIRED BY CODE OR FIELD CONDITIONS.
- ALL WIRING AND CONDUIT LAYOUT IS SHOWN DIAGRAMMATICALLY. THE LOCATION OF EQUIPMENT AND RUNS MAY VARY DUE TO PHYSICAL CONDITIONS AND SHALL BE INSTALLED ACCORDINGLY AT NO ADDED COST TO THE OWNER.
- PROVIDE A NEW GROUNDING SYSTEM AND PROVIDE ALL WIRING, CONDUIT, ACCESSORIES REQUIRED TO PROVIDE A COMPLETE GROUNDING SYSTEM. NEW GROUNDING ROD TO BE AT LEAST 3/4" DIAMETER AND AT LEAST 8- FEET IN LENGTH. THE ROD SHALL BE IN CONTACT WITH THE SOIL AND INSTALLED IN ACCORDANCE WITH NEC PROVISIONS.
- ALL CONDUCTORS MUST BE FREE OF GROUNDS. CHECK SYSTEM WIRING FOR SHORTS, OPEN, AND GROUND FAULTS AND CORRECT DEFICIENCIES.



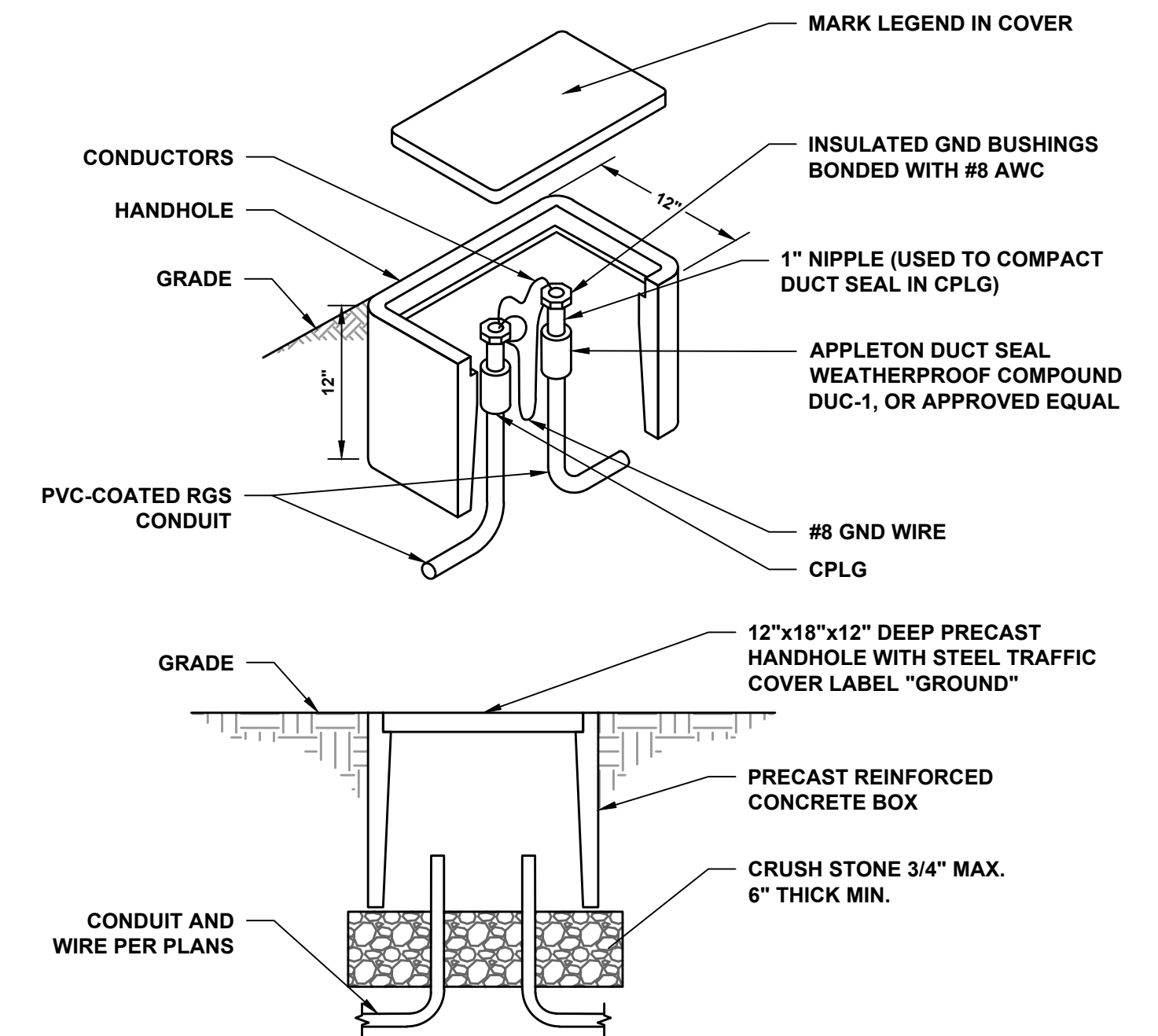
ELECTRICAL WIRING TRENCH DETAIL

N.T.S.



FIBERGLASS JUNCTION BOX

N.T.S.



SMALL ELECTRIC HANDHOLE

N.T.S.

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CHECKED BY: KRD 07/26/2021	
CHECKED BY:	

DRAWN BY: DAREN J. PHIL, PE NJ PROFESSIONAL ENGINEER LICENSE NO. 24GE03619100	DAREN J. PHIL, PE NJ PROFESSIONAL ENGINEER LICENSE NO. 24GE03619100
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SCS SUBURBAN CONSULTING ENGINEERS, INC.

COA NO. 24G128037500
210110004200

- Civil Engineers - Municipal Engineers
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- Planners - Environmentalists - Land Surveyors -

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EXCELLENCE ♦ ECONOMY ♦ ENVIRONMENT

NOTRE DAME HIGH SCHOOL (601 LAWRENCE ROAD)

SYNTHETIC TURF FIELD IMPROVEMENTS

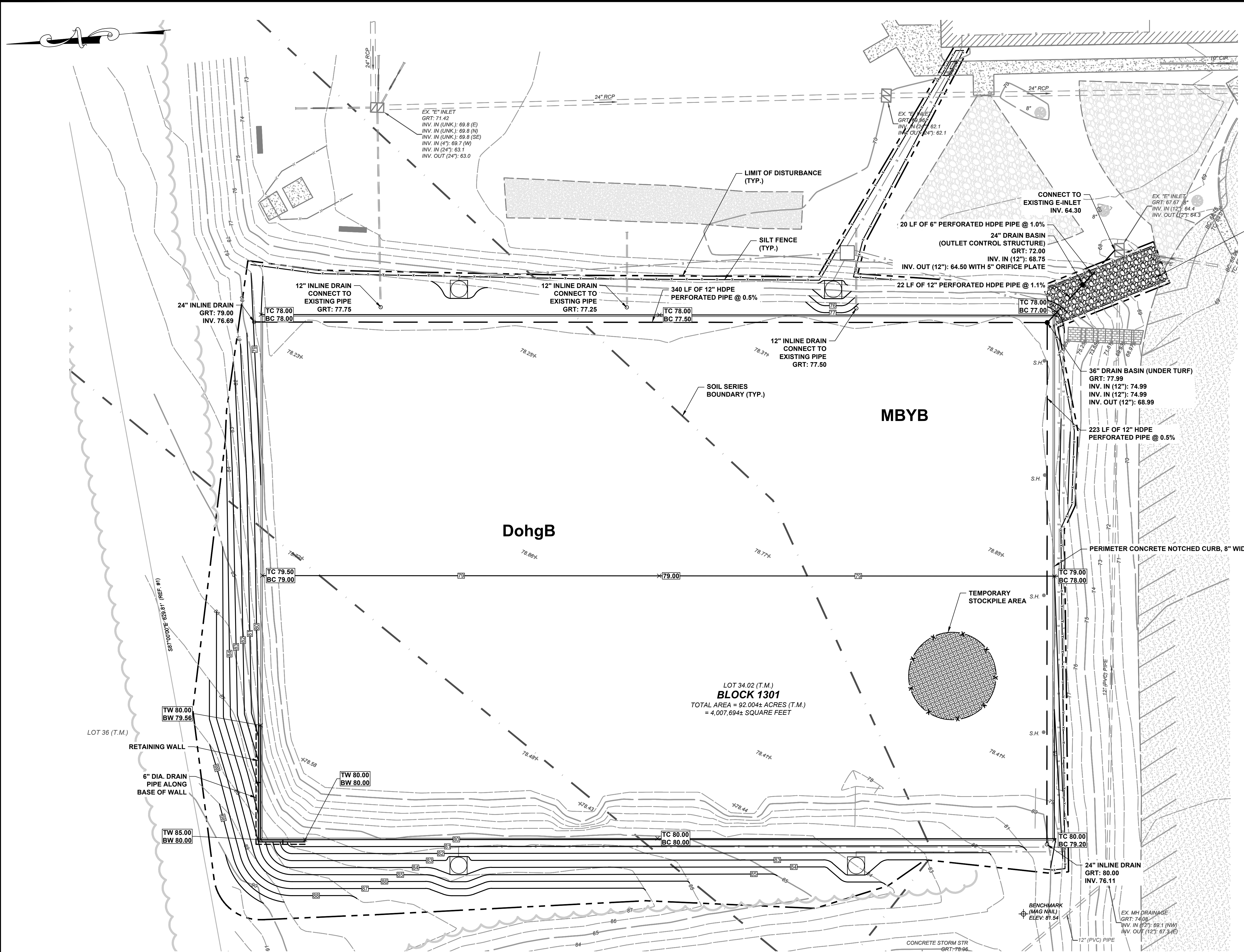
BLOCK 1301, LOT 34.02 (TAX MAP TOWNSHIP OF LAWRENCE SHEET 13)

TOWNSHIP OF LAWRENCE, COUNTY OF MERCER, STATE OF NEW JERSEY

CONSTRUCTION DETAILS III

PROJECT NUMBER: SCE-12075.011
SCALE: N.T.S.
SHEET 9 OF 11
REVISION

E:\SCE\Lawrence\12075.011 Lawrence\Sheets\12075.011 10 Soil Erosion and Sediment Control Plan.dwg, Tue, Jul 27, 2021, 10:21am agonzalez, SUBURBAN CONSULTING ENGINEERS, INC.

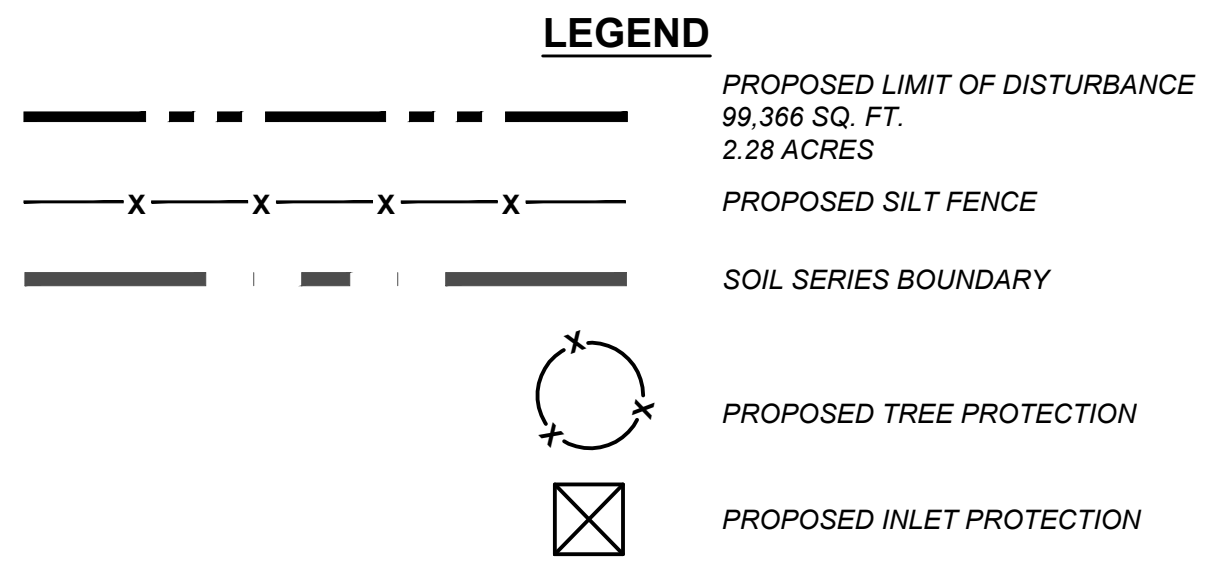


SEQUENCE OF CONSTRUCTION AND DURATION (20 WEEKS)	
1. MOBILIZATION AND INSTALLATION OF SOIL EROSION AND SEDIMENT CONTROL MEASURES. INSTALLATION OF TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES MUST BE INSTALLED AT THE INITIATION OF LAND DISTURBANCE ACTIVITIES. ALL TEMPORARY SOIL EROSION MEASURES MUST BE INCLUDED (SEDIMENT BARRIERS, STABILIZED CONSTRUCTION ACCESS AND INLET PROTECTION).	1 WEEK
2. CLEARING SITE AND DEMOLITION	3 WEEKS
3. EXCAVATION TO PROPOSED SUBGRADE	3 WEEKS
4. INSTALLATION OF SITE DRAINAGE AND SITE LIGHTING	5 WEEKS
5. SYNTHETIC TURF INSTALLATION	4 WEEKS
6. GRADE, TOPSOIL, FERTILIZER, SEED AND MULCH	2 WEEKS
7. DEMOBILIZATION AND REMOVAL OF SOIL EROSION AND SEDIMENT CONTROL MEASURES	2 WEEKS
TOTAL:	20 WEEKS

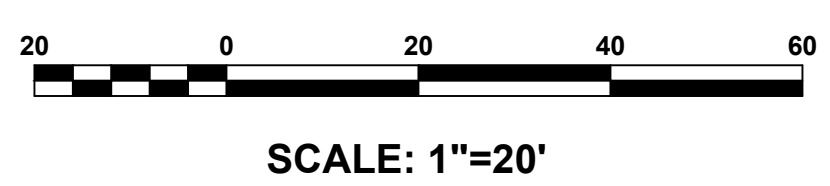
NOTE:
1. THE ABOVE SCHEDULE OF CONSTRUCTION ACTIVITIES ARE ESTIMATES THAT REPRESENT WORKING DAYS AND MAY VARY IN THE SEQUENCE AND DURATION AS CONDITIONS WARRANT. THE CONTRACTOR SHALL SUBMIT A SCHEDULE FOR THE ENGINEER'S APPROVAL AND MAKE PERIODIC ADJUSTMENTS NECESSARY TO MEET THE REQUIRED CONTRACT TIME.

AS PER NEW JERSEY DEPARTMENT OF AGRICULTURE STATE SOIL CONSERVATION COMMITTEE, CHAPTER 251, PL. 1975 AS AMENDED, ENGINEERING POLICIES - TECHNICAL BULLETIN, THIS PROJECT IS CONSIDERED A METROPOLITAN AREA (PA1) AND IS CONSIDERED A "PREVIOUSLY DEVELOPED" SITE. THEREFORE, THIS PROJECT IS EXEMPT FROM SOIL COMPACTION REMEDIATION MEASURES.

- NOTES:
- CONTRACTOR TO PROVIDE AS-BUILT SURVEY OF STONE SUBGRADE AND FINISHED STONE TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION OF SYNTHETIC TURF.
 - CONTRACTOR TO KEEP CONSTRUCTION ENTRANCE AND MACHINERY CLEAN PRIOR TO LEAVING THE PROJECT SITE.
 - CONTRACTOR TO JET CLEAN/VACUUM ALL EXISTING STORM DRAINAGE PIPING TO REMAIN IN VICINITY OF PROJECT SITE TO DOWNSTREAM INLETS AND OUTFLOW PIPING THAT ARE REPRESENTED ON THE DEMOLITION PLAN AS ITEMS TO REMAIN. NO SEPARATE PAYMENT WILL BE MADE.
 - CONTRACTOR TO REMOVE EXCAVATED SOIL OFF-SITE.
 - WEB SOIL SURVEY SOIL TYPES FOR THIS SITE INCLUDE:
DohgB - DOWNER FINE SANDY LOAM, GRAVELLY CLAY LOAM SUBSTRATUM, 0 TO 5 PERCENT SLOPES
MBYB - MATTAPEX AND BERTIE LOAMS, 0 TO 5 PERCENT SLOPES



TOTAL DISTURBANCE (TOTAL) = 99,366 S.F. (2.28 ACRES)



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07/26/2021
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CHECKED BY:

ROBERT GREGORIA, PE
NJ PROFESSIONAL ENGINEER
LICENSE NO. 24GE03365600
DATE: 07/26/2021

DAREN J. PHIL, PE
NJ PROFESSIONAL ENGINEER
LICENSE NO. 24GE03619100
DATE: 07/26/2021

SE SUBURBAN CONSULTING ENGINEERS, INC.
COA NO.: 24G128037500
21011100092824
Civil Engineers - Municipal Engineers
Landscape Architects - Land Surveyors
Planners - Environmentalists - Land Surveyors
96 US Highway 206, Suite 101 2430 Highway 34, Bldg. A Suite 1R
Hlanders, N.J. 07836-9733 981.776 Wall, N.J. 08756-7322 282.1776
EXCELLENCE ♦ ECONOMY ♦ ENVIRONMENT

NOTRE DAME HIGH SCHOOL (601 LAWRENCE ROAD)
SYNTHETIC TURF FIELD IMPROVEMENTS
BLOCK 1301, LOT 34.02 (TAX MAP TOWNSHIP OF LAWRENCE SHEET 13)
TOWNSHIP OF LAWRENCE, COUNTY OF MERCER, STATE OF NEW JERSEY
SOIL EROSION AND SEDIMENT CONTROL PLAN

PROJECT NUMBER:
SCE-12075.011
SCALE:
1"=20'
SHEET 10 OF 11
REVISION

MERCER COUNTY SOIL CONSERVATION DISTRICT SOIL EROSION & SEDIMENT CONTROL NOTES

- THE MERCER COUNTY SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED 48 HOURS PRIOR TO STARTING LAND DISTURBANCE ACTIVITY. NOTICE MAY BE MAILED, FAXED OR EMAILED TO:
MCSGD, 590 HUGHES DRIVE, HAMILTON SQUARE, NJ 08690
PHONE: 609-586-9603 FAX: 609-586-1117 EMAIL: PAULS1MERCER@AOL.COM
- IF APPLICABLE TO THIS PROJECT, THE OWNER SHOULD BE AWARE OF HIS OR HER OBLIGATION TO FILE FOR A NJPDES CONSTRUCTION ACTIVITY STORMWATER 503 PERMIT (NJG088323) VIA THE NJDEP ONLINE PERMITTING SYSTEM (WWW.NJ.GOV/DEP/ONLINE) AND TO MAINTAIN THE ASSOCIATED BEST MANAGEMENT PRACTICES AND STORMWATER POLLUTION PREVENTION PLAN SELF-INSPECTION LOGBOOK ON-SITE AT ALL TIMES. THIS PERMIT MUST BE FILED PRIOR TO THE START OF SOIL DISTURBANCE. THE ONLINE APPLICATION PROCESS WILL REQUIRE ENTRY OF AN SCD CERTIFICATION CODE, WHICH IS PROVIDED BY THE SOIL CONSERVATION DISTRICT UPON CERTIFICATION OF THE SOIL EROSION AND SEDIMENT CONTROL PLAN.
- THE MERCER COUNTY SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED OF ANY CHANGES IN OWNERSHIP.
- ANY CHANGES TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN, INCLUDING AN INCREASE IN THE LIMIT OF DISTURBANCE, WILL REQUIRE THE SUBMISSION OF REVISED SOIL EROSION AND SEDIMENT CONTROL PLANS TO THE DISTRICT FOR RECERTIFICATION. THE REVISED PLANS MUST MEET ALL CURRENT STATE SOIL EROSION & SEDIMENT CONTROL STANDARDS.
- A COPY OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON SITE AT ALL TIMES.
- ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCES, OR IN THEIR PROPER SEQUENCE AS OUTLINED WITHIN THE SEQUENCE OF CONSTRUCTION ON THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NJ. IF LANGUAGE CONTAINED WITHIN ANY OTHER PERMIT FOR THIS PROJECT IS MORE RESTRICTIVE THAN (BUT NOT CONTRADICTORY TO) WHAT IS CONTAINED WITHIN THESE NOTES OR ON THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN, THEN THE MORE RESTRICTIVE PERMIT REQUIREMENTS SHALL BE FOLLOWED.
- THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS REQUIRES THE INSTALLATION OF A 1 1/2" TO 2 1/2" CLEAN STONE TRACKING PAD AT ALL CONSTRUCTION DRIVEWAYS IMMEDIATELY AFTER INITIAL SITE DISTURBANCE, WHETHER IDENTIFIED ON THE CERTIFIED PLAN OR NOT. THE WIDTH SHALL SPAN THE FULL WIDTH OF EGRESS, AND LENGTH SHALL BE 50 FT. OR MORE, DEPENDING ON SITE CONDITIONS AND AS REQUIRED BY THE STANDARD. THIS SHALL INCLUDE INDIVIDUAL LOT ACCESS POINTS WITHIN RESIDENTIAL SUBDIVISIONS. IF THE EGRESS IS TO A COUNTY ROAD, THEN A 20 FT. LONG PAVED TRANSITION SHALL BE PROVIDED BETWEEN THE EDGE OF PAVEMENT AND THE STONE ACCESS PAD.
- A SUB-BASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS IN ORDER TO STABILIZE STREETS, ROADS, DRIVEWAYS AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUB-BASE SHALL BE INSTALLED WITHIN 15 DAYS OF PRELIMINARY GRADING, PROVIDED THAT ALL OTHER REQUIREMENTS RELATED TO DETENTION BASINS, SWALES AND THE SEQUENCE OF CONSTRUCTION HAVE BEEN MET.
- ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 14 DAYS AND NOT SUBJECT TO CONSTRUCTION ACTIVITY WILL IMMEDIATELY RECEIVE TEMPORARY STABILIZATION. IF THE SEASON PREVENTS ESTABLISHMENT OF A TEMPORARY VEGETATIVE COVER, OR IF THE AREA IS NOT TOPSOILED, THEN THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS. SLOPED AREAS IN EXCESS OF 3H:1V SHALL BE PROVIDED WITH EROSION CONTROL BLANKETS. CRITICAL AREAS SUBJECT TO EROSION (I.E. STEEP SLOPES, ROADWAY EMBANKMENTS, ENVIRONMENTALLY SENSITIVE AREAS) WILL RECEIVE TEMPORARY STABILIZATION IMMEDIATELY AFTER INITIAL DISTURBANCE OR ROUGH GRADING.
- ANY STEEP SLOPES (I.E. SLOPES GREATER THAN 3:1) RECEIVING PIPELINE OR UTILITY INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION PROCEEDS.
- PERMANENT VEGETATION SHALL BE SEED OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING AND TOPSOILING. ALL AGRONOMIC REQUIREMENTS CONTAINED WITHIN THE STANDARDS AND ON THE CERTIFIED PLAN SHALL BE EMPLOYED. MULCH WITH BINDER, IN ACCORDANCE WITH THE STANDARDS, SHALL BE USED ON ALL SEEDING AREAS. SAVE ALL TAGS AND/OR BAGS USED FOR SEED, LIME AND FERTILIZER, AND PROVIDE THEM TO THE DISTRICT INSPECTOR TO VERIFY THAT MIXTURES AND RATES MEET THE STANDARDS.
- AT THE TIME WHEN THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT EQUIVALENT VEGETATIVE GROUND COVER, SHALL BE REMOVED IN SUCH A WAY THAT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, THEN NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.
- DURING THE COURSE OF CONSTRUCTION, SOIL COMPACTION MAY OCCUR WITHIN HAUL ROUTES, STAGING AREAS AND OTHER PROJECT AREAS. IN ACCORDANCE WITH THE STANDARD FOR TOPSOILING, COMPACTED SURFACES SHOULD BE SCARIFIED 6" TO 12" IMMEDIATELY PRIOR TO TOPSOIL APPLICATION. THIS WILL HELP ENSURE A GOOD BOND BETWEEN THE TOPSOIL AND SUBSOIL. THIS PRACTICE IS PERMISSIBLE ONLY WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.).
- PRIOR TO SEEDING, TOPSOIL SHALL BE WORKED TO PREPARE A PROPER SEEDBED. THIS SHALL INCLUDE RAKING OF THE TOPSOIL AND REMOVAL OF DEBRIS AND STONES, ALONG WITH OTHER REQUIREMENTS OF THE STANDARD FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION.
- IN ACCORDANCE WITH THE STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS, ANY SOIL HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDES SHALL BE BURIED WITH LIMESTONE IN ACCORDANCE WITH THE STANDARD AND BE COVERED WITH A MINIMUM OF 12" OF SOIL HAVING A PH OF 5 OR MORE PRIOR TO TOPSOIL APPLICATION AND SEEDBED PREPARATION. IF THE AREA IS TO RECEIVE TREE OR SHRUB PLANTINGS, OR IS LOCATED ON A SLOPE, THEN THE AREA SHALL BE COVERED WITH A MINIMUM OF 24" OF SOIL HAVING A PH OF 5 OR MORE.
- MULCHING TO THE STANDARDS IS REQUIRED FOR OBTAINING A CONDITIONAL REPORT OF COMPLIANCE. CONDITIONAL ROC'S ARE ONLY ISSUED WHEN THE SEASON PROHIBITS SEEDING. PERMANENT STABILIZATION MUST THEN BE COMPLETED DURING THE OPTIMUM SEEDING SEASON IMMEDIATELY FOLLOWING THE CONDITIONAL ROC, OR THE COMPLETION OF WORK IN A GIVEN AREA.
- HYDROSEEDING IS A TWO-STEP PROCESS. THE FIRST STEP INCLUDES SEED, FERTILIZER, LIME, ETC., ALONG WITH MINIMAL AMOUNTS OF MULCH TO PROMOTE CONSISTENCY, GOOD SEED-TO-SOIL CONTACT, AND GIVE A VISUAL INDICATION OF COVERAGE. UPON COMPLETION OF THE SEEDING OPERATION, HYDROMULCH SHOULD BE APPLIED AT A MINIMUM RATE OF 1500 LBS. PER ACRE IN SECOND STEP. THE USE OF HYDRO-MULCH, AS OPPOSED TO STRAW, IS LIMITED TO OPTIMUM SEEDING DATES AS LISTED IN THE STANDARDS. THE USE OF HYDROMULCH ON SLOPED AREAS IS DISCOURAGED.
- THE CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL ADJACENT ROADS CLEAN DURING LIFE OF THE CONSTRUCTION PROJECT. ALL SEDIMENT WASHED, DROPPED, TRACKED OR SPILLED ONTO PAVED SURFACES SHALL BE IMMEDIATELY REMOVED.
- THE DEVELOPER SHALL BE RESPONSIBLE FOR REMEDIATING ANY EROSION OR SEDIMENT PROBLEMS THAT ARISE AS A RESULT OF ONGOING CONSTRUCTION, AND FOR EMPLOYING ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AT THE REQUEST OF THE MERCER COUNTY SOIL CONSERVATION DISTRICT.
- CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.
- ALL DETENTION / RETENTION BASINS MUST BE FULLY CONSTRUCTED (INCLUSIVE OF ALL STRUCTURAL COMPONENTS AND LINERS) AND PERMANENTLY STABILIZED PRIOR TO PAVING OR PRIOR TO THE ADDITION OF ANY IMPERVIOUS SURFACES. PERMANENT STABILIZATION INCLUDES, BUT MAY NOT BE LIMITED TO: TOPSOIL, SEED, STRAW MULCH AND BINDERS OR EROSION CONTROL BLANKETS ON ALL SEEDING. ALL AGRONOMIC REQUIREMENTS AS SPECIFIED ON THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN. INSTALLATION OF THE OUTFLOW CONTROL STRUCTURES AND DISCHARGE STORM DRAINAGE PIPING, LOW FLOW CHANNELS, CONDUIT OUTLET PROTECTION, EMERGENCY SPILLWAYS, AND LAP RING PROTECTION.
- THE RIDING SURFACE OF ALL UTILITY TRENCHES WITHIN PAVED AREAS SHALL BE 3/4" CLEAN STONE OR BASE PAVEMENT UNTIL SUCH TIME AS FINAL PAVEMENT HAS BEEN INSTALLED. TEMPORARY SOIL RIDING SURFACES ARE PROHIBITED.
- ALL CONSTRUCTION DEWATERING (TRENCHES, EXCAVATIONS, ETC.) MUST BE DONE THROUGH AN INLET OR OUTLET FILTER IN ACCORDANCE WITH THE STANDARD FOR DEWATERING OR AS DEPICTED ON THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN. DISCHARGE LOCATIONS FOR THE DEWATERING OPERATION MUST CONTAIN PERENNIAL VEGETATION OR SIMILAR STABLE SURFACE.
- ALL SWALES OR CHANNELS THAT WILL RECEIVE RUNOFF FROM PAVED SURFACES MUST BE PERMANENTLY STABILIZED PRIOR TO THE INSTALLATION OF PAVEMENT. IF THE SEASON PROHIBITS THE ESTABLISHMENT OF PERMANENT STABILIZATION, THE SWALES OR CHANNELS MAY BE TEMPORARILY STABILIZED IN ACCORDANCE WITH THE STANDARDS.
- NJSA 4:24-39 ET SEQ. REQUIRES THAT NO CERTIFICATE OF OCCUPANCY OR TEMPORARY CERTIFICATE OF OCCUPANCY BE ISSUED BY THE MUNICIPALITY BEFORE THE PROVISIONS OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN HAVE BEEN SATISFIED. THEREFORE, ALL SITE WORK FOR SITE PLANS AND ALL WORK AROUND INDIVIDUAL LOTS IN SUBDIVISIONS MUST BE COMPLETED BEFORE THE DISTRICT ISSUES A REPORT OF COMPLIANCE OR CONDITIONAL REPORT OF COMPLIANCE, WHICH MUST BE FORWARDED TO THE MUNICIPALITY PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY OR TEMPORARY CERTIFICATE OF OCCUPANCY, RESPECTIVELY.

TABLE 16-1: DUST CONTROL MATERIALS

MATERIAL	WATER DILUTION	TYPE OF NOZZLE	APPLY GALLONS / ACRE
ANIONIC ASPHALT EMULSION	7 : 1	COARSE SPRAY	1,200
LATEX EMULSION	12.5 : 1	FINE SPRAY	235
RESIN IN WATER	4 : 1	FINE SPRAY	300
POLYACRYLAMIDE (PAM) - SPRAY ON POLYACRYLAMIDE (PAM) - DRY SPRAY APPLY ACCORDING TO MANUFACTURER'S INSTRUCTIONS. MAY ALSO BE USED AS AN ADDITIVE TO SEDIMENT BASINS TO FLOCCULATE AND PRECIPITATE SUSPENDED COLLOIDS. SEE SEDIMENT BASIN STANDARD (Pg. 26-1)			
ACIDULATED SOY BEAN STICK	NONE	COARSE SPRAY	1,200

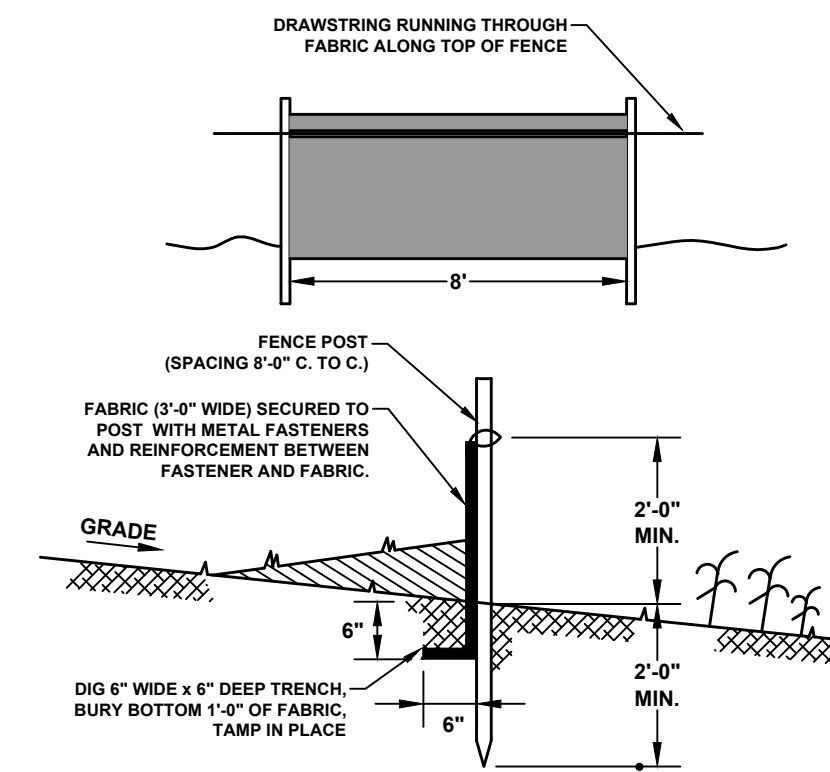
TILLAGE - TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS A TEMPORARY EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART, AND SPRING-TOOTHED HARROWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE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

SPRINKLING - SITE IS SPRINKLED UNTIL THE SURFACE IS WET.

BARRIERS - SOLID BOARD FENCES, 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.

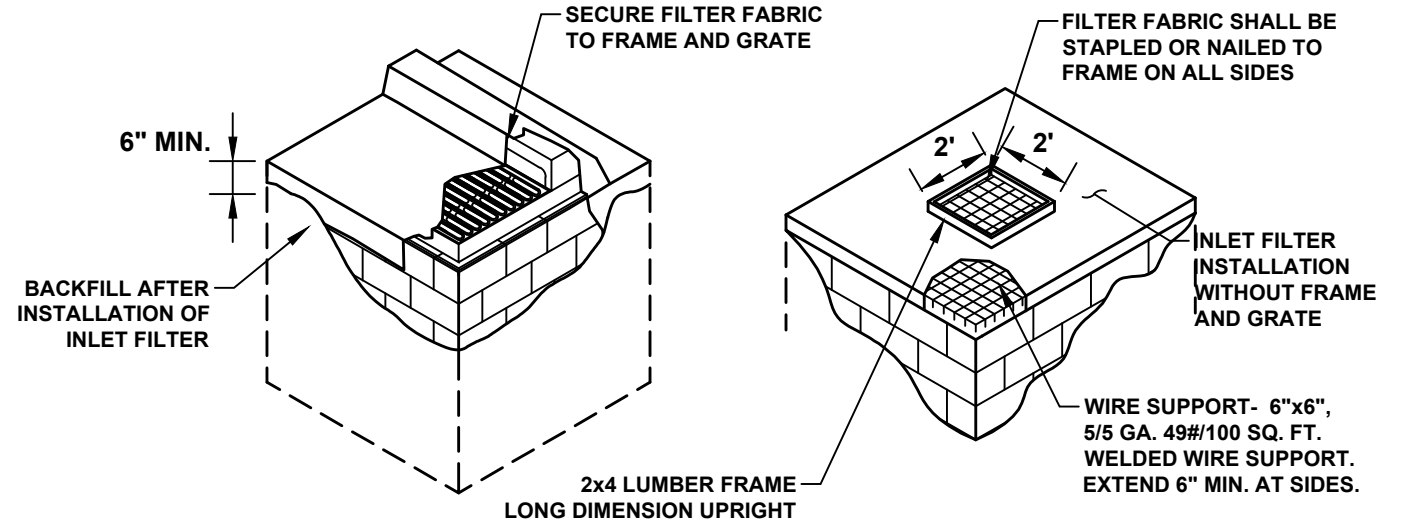
STONE - COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.



REQUIREMENTS FOR SILT FENCE:

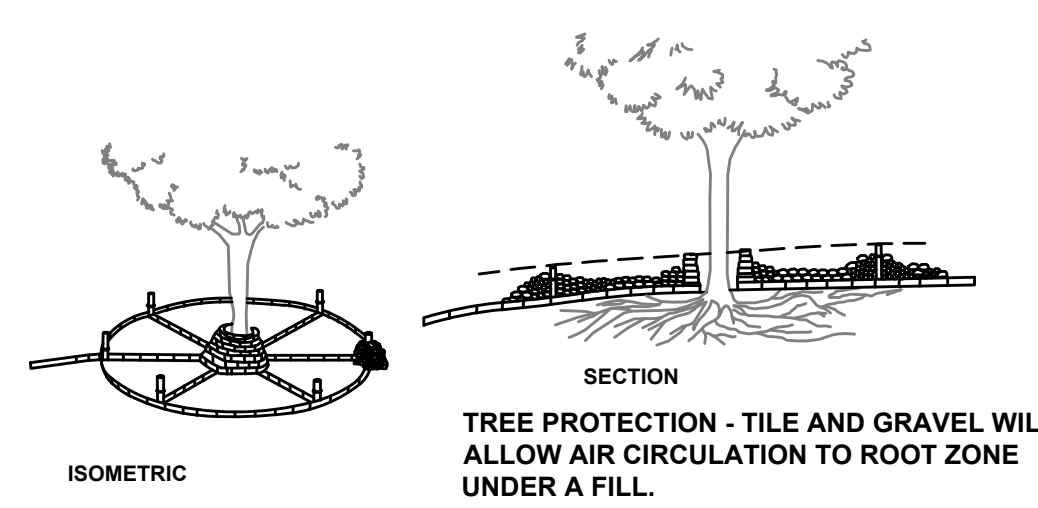
- FENCE POSTS SHALL BE SPACED 9 FEET CENTER TO CENTER OR CLOSER. THEY SHALL EXTEND AT LEAST 2 FEET INTO THE GROUND AND EXTEND AT LEAST 2 FEET ABOVE GROUND. POSTS SHALL BE CONSTRUCTED OF HARDWOOD WITH A MINIMUM DIAMETER THICKNESS OF 1.5 INCHES.
- WHERE INDICATED AS SUPER SILT FENCE A METAL FENCE WITH 6 INCH OR SMALLER OPENINGS AND AT LEAST 2 FEET HIGH MAY BE UTILIZED, FASTENED TO THE FENCE POSTS, TO PROVIDE REINFORCEMENT AND SUPPORT TO THE GEOTEXTILE FABRIC WHERE SPACE FOR OTHER PRACTICES IS LIMITED AND HEAVY SEDIMENT LOADING IS EXPECTED.
- A GEOTEXTILE FABRIC, RECOMMENDED FOR SUCH USE BY THE 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 DETAIL N.T.S.

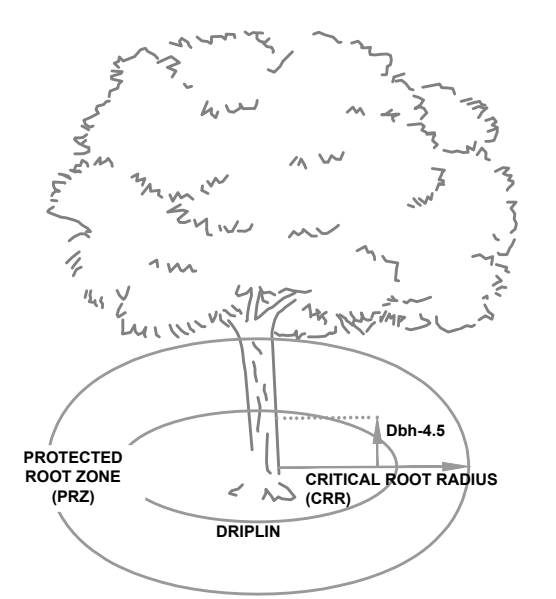


- NOTES:**
- CONTRACTOR IS TO CLEAN INLET FILTER AFTER EVERY STORM.
 - IF BOTTOM OF ROADWAY BOX IS BELOW TOP OF GRATE, CONSTRUCT OPENINGS IN INLET WALL TO ALLOW WATER TO FLOW IN, COVER OPENINGS WITH WELDED WIRE SUPPORT AND FILTER FABRIC.
 - INSPECTION SHALL BE MADE FREQUENT. MAINTENANCE, REPAIR AND REPLACEMENT SHALL BE MADE PROMPTLY, AS NEEDED. THE BARRIER SHALL BE REMOVED WHEN THE AREA DRAINING TOWARDS THE INLET HAS BEEN STABILIZED.

INLET FILTER DETAIL N.T.S.



TREE PROTECTION IN FILL AREAS N.T.S.



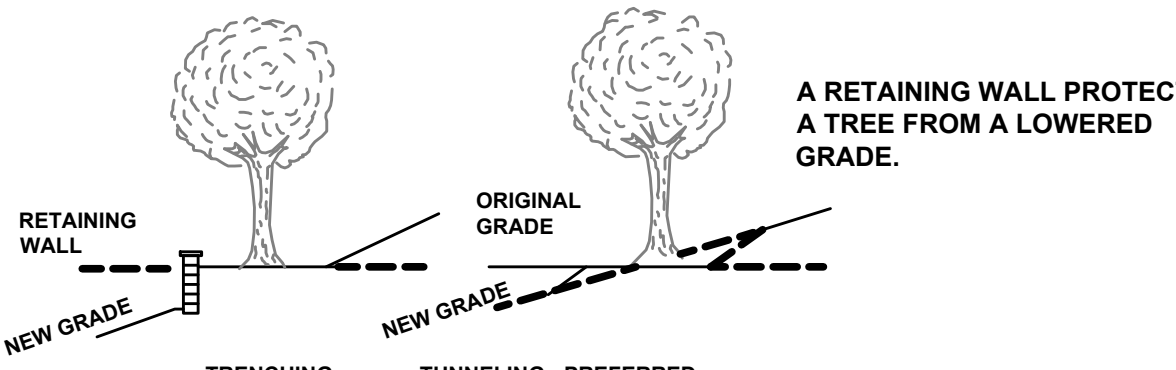
TREE PROTECTION N.T.S.

ESTIMATE A TREE'S PROTECTED ROOT ZONE (PRZ) BY CALCULATING THE CRITICAL ROOT RADIUS (CRR).

- MEASURE THE DBH (DIAMETER OF TREE AT BREAST HEIGHT, 4.5 FEET ABOVE GROUND ON THE UPHILL SIDE OF TREE) IN INCHES.
- MULTIPLY MEASURED DBH BY 1.5 OR 1.0. EXPRESS THE RESULT IN FEET.

DBH X 1.5: CRITICAL ROOT RADIUS FOR OLDER, UNHEALTHY, OR SENSITIVE SPECIES.

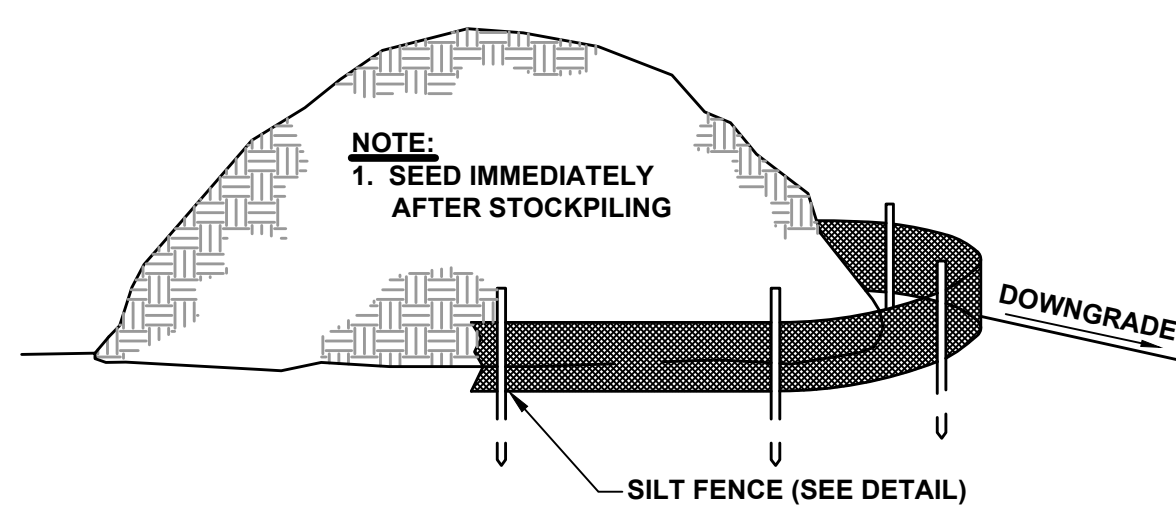
DBH X 1.0: CRITICAL ROOT RADIUS FOR YOUNGER, HEALTHY, OR TOLERANT SPECIES.



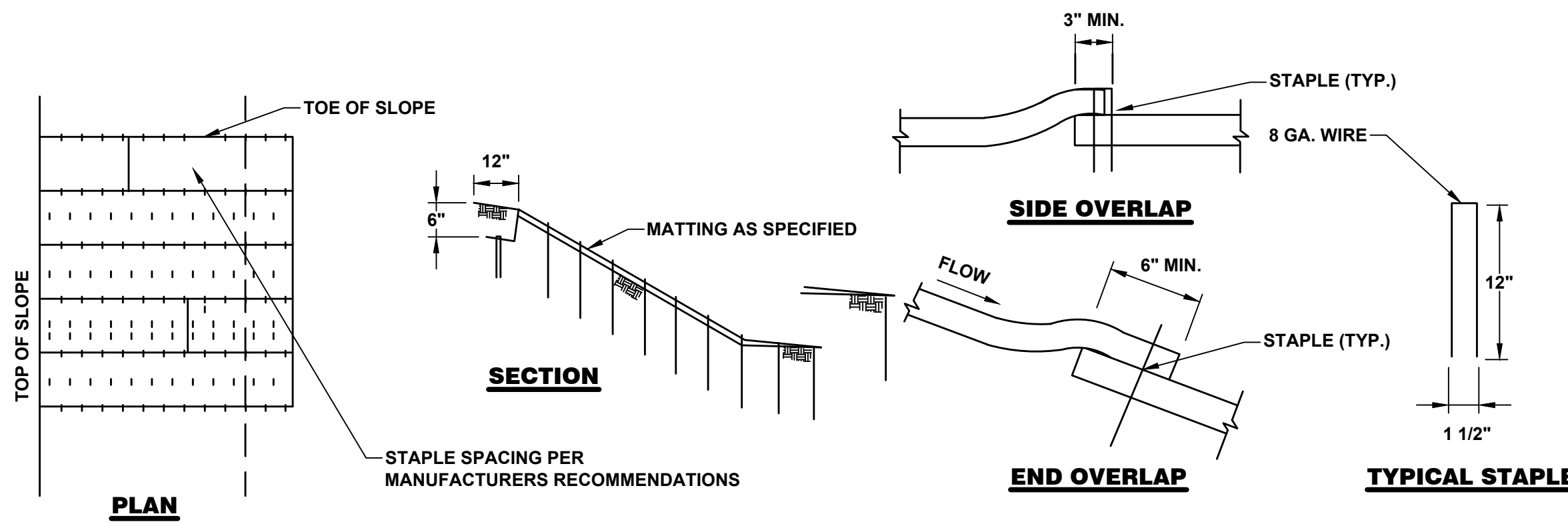
A RETAINING WALL PROTECTS A TREE FROM A LOWERED GRADE.

UTILITIES SHOULD BE TUNNELED BENEATH TREE ROOTS. THE DRAWINGS ON THE LEFT SHOW TRENCHING THAT WOULD PROBABLY KILL THE TREE. THE DRAWINGS ON THE RIGHT SHOW HOW TUNNELING UNDER THE TREE WILL PRESERVE MANY OF THE IMPORTANT FEEDER ROOTS.

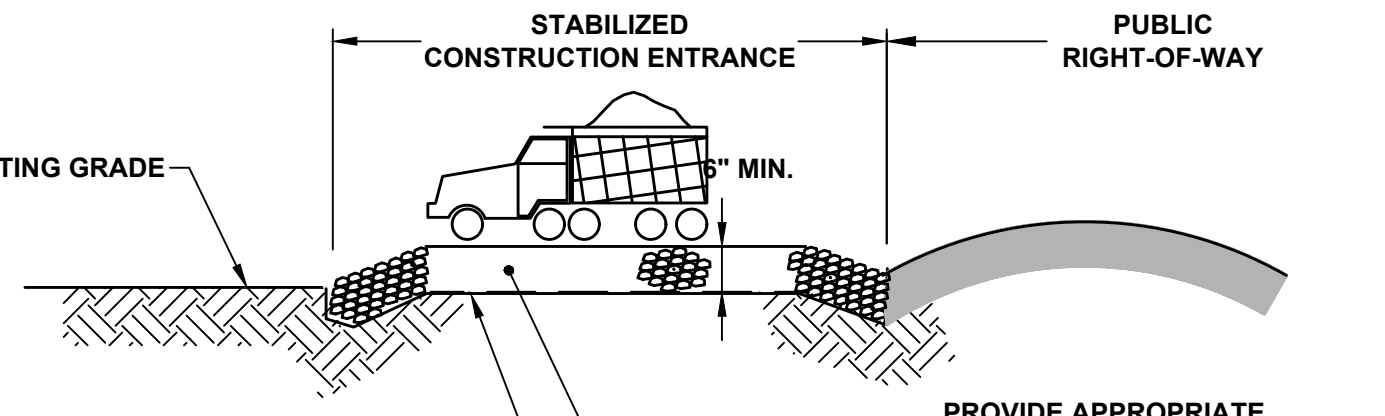
TREE PROTECTION-UNDERGROUND UTILITY INSTALLATION N.T.S.



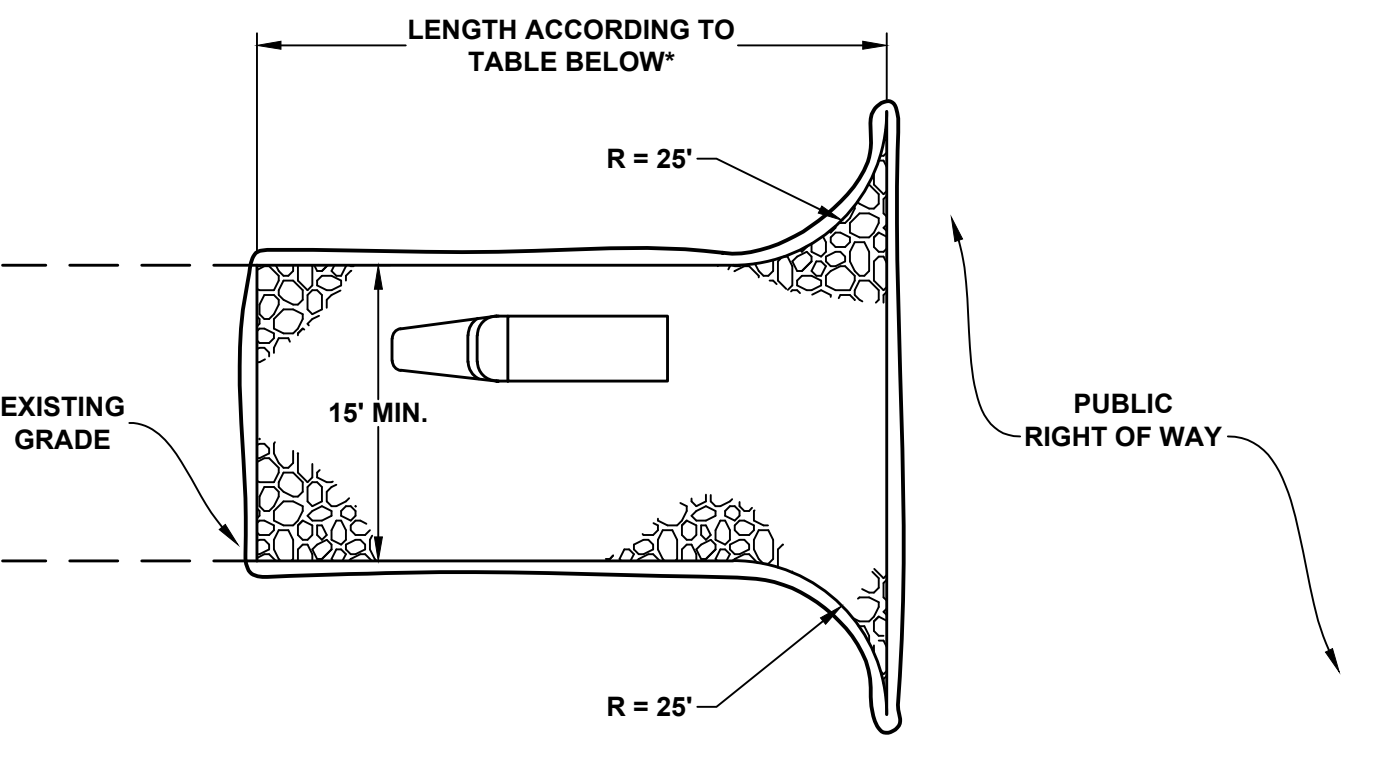
TYPICAL TOPSOIL STOCKPILE N.T.S.



TOPSOIL STOCKPILE STABILIZATION N.T.S.



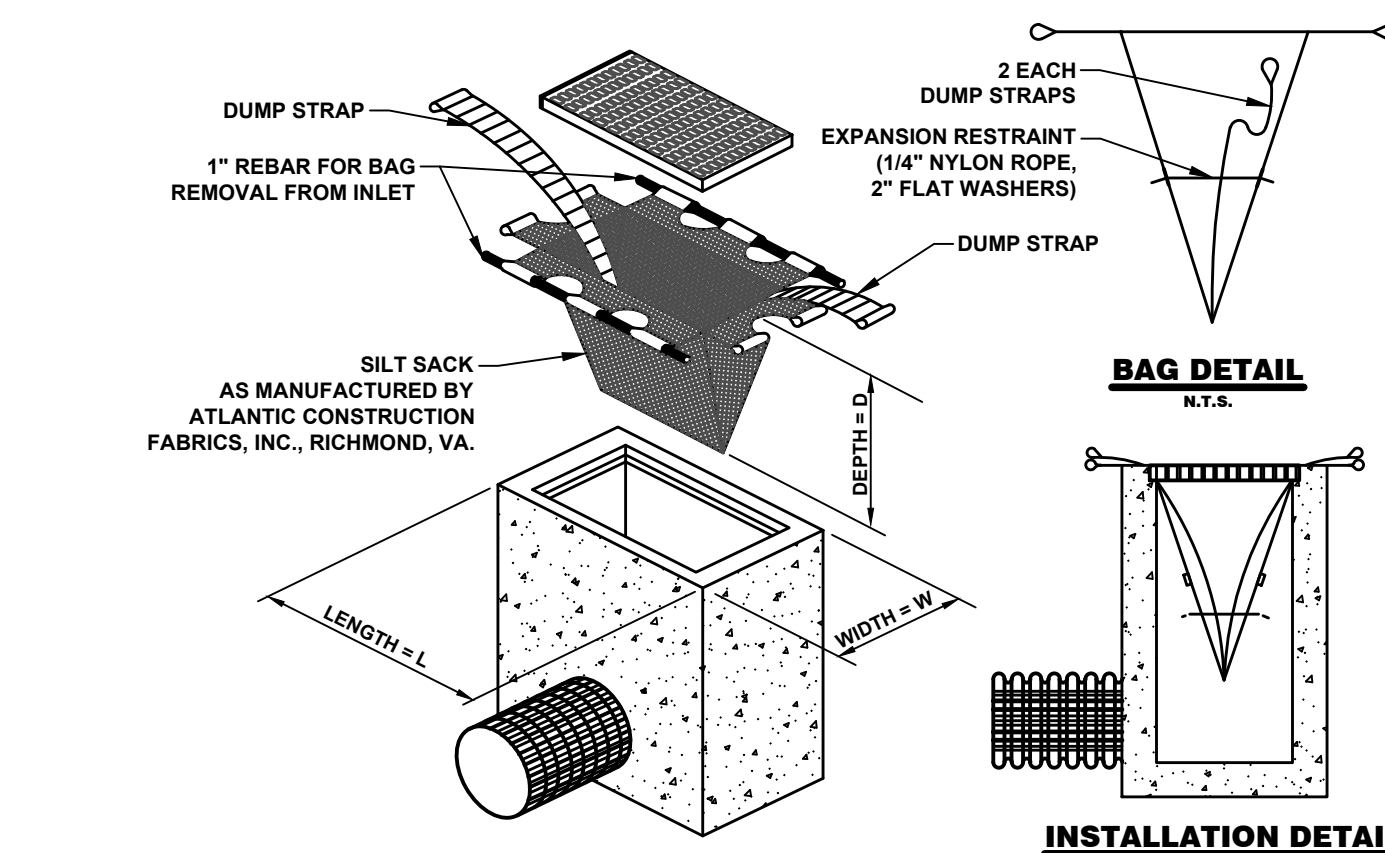
PROVIDE APPROPRIATE TRANSITION BETWEEN STABILIZED CONSTRUCTION ENTRANCE AND ROADWAY



PERCENT SLOPE OF ROADWAY	LENGTH STONE REQUIRED	
	COARSE GRAINED SOILS	FINE GRAINED SOILS
0 TO 2%	50 FT.	100 FT.
2 TO 5%	100 FT.	200 FT.
> 5%	ENTIRE SURFACE STABILIZED WITH FABC BASE COURSE	

*AS PRESCRIBED BY LOCAL ORDINANCE OR OTHER GOVERNING AUTHORITY.

STABILIZED CONSTRUCTION ENTRANCE N.T.S.



INLET PROTECTION DEVICE N.T.S.

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KRD
07/26/2021
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ROBERT GREGORIA, PE
NJ PROFESSIONAL ENGINEER
LICENSE NO. 24GE03365600
DATE: 07/26/2021

DAREN J. PHIL, PE
NJ PROFESSIONAL ENGINEER
LICENSE NO. 24GE03619100
DATE: 07/26/2021

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COA NO.: 24GE03365600 / 24GE03619100
Civil Engineers - Municipal Engineers
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Planners - Environmentalists - Land Surveyors
96 US Highway 206, Suite 301 2430 Highway 34, Bldg. A Suite 1R
Hinders, N.J. 07836 - 973.398.1776 Wall, N.J. 08736 - 732.282.1776
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NOTRE DAME HIGH SCHOOL (601 LAWRENCE ROAD) SYNTHETIC TURF FIELD IMPROVEMENTS
BLOCK 1301, LOT 34.02 (TAX MAP TOWNSHIP OF LAWRENCE SHEET 13)
TOWNSHIP OF LAWRENCE, COUNTY OF MERCER, STATE OF NEW JERSEY
PROJECT NUMBER:
SCS-12075-011
SCALE:
N.T.S.
SHEET 11 OF 11
REVISION