

KEY MAP NOT TO SCALE

# NEW ARTIFICIAL TURF FIELD & SPORTS LIGHTING AT RANCOCAS VALLEY REGIONAL HIGH SCHOOL EASTAMPTON SPORTS COMPLEX

1 MILL CREEK ROAD  
TOWNSHIP OF EASTAMPTON  
Block 1300 - Lots 70.01 and 71  
BURLINGTON COUNTY - NEW JERSEY

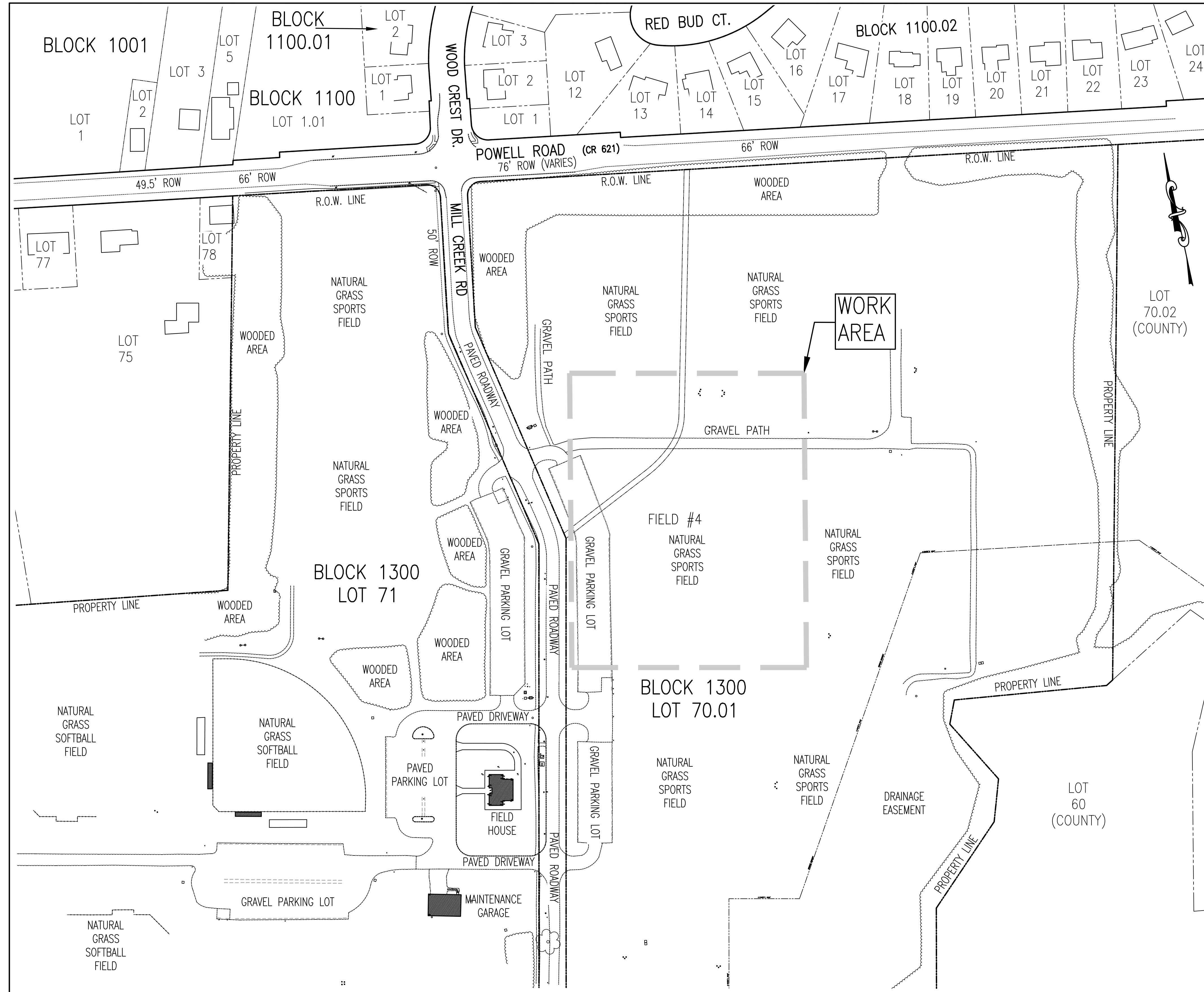
RANCOCAS VALLEY REGIONAL HIGH SCHOOL DISTRICT  
520 JACKSONVILLE ROAD, MOUNT HOLLY, NJ 08060

RANCOCAS VALLEY REGIONAL HIGH SCHOOL DISTRICT  
BOARD OF EDUCATION

- Mr. Charles S. Miller - President
- Ms. Christine Daily - Vice President
- Mr. Everton Burke
- Mr. Ryan Donnelly
- Mr. Eric R. Fueger
- Mr. Allan J. Hollowell
- Mrs. Christina Lestician
- Mr. Nick Peditto
- Mr. Robert L. Sapp
- Superintendent
- Dr. Chris Heilig

Business Administrator/Board Secretary  
Mrs. Lisa Giovannelli

CIVIL ENGINEER  
EDWARDS ENGINEERING GROUP  
69 WEST END AVENUE, SOMERVILLE, NJ 08876  
TEL (908) 231-9595



PROJECT LOCATION MAP

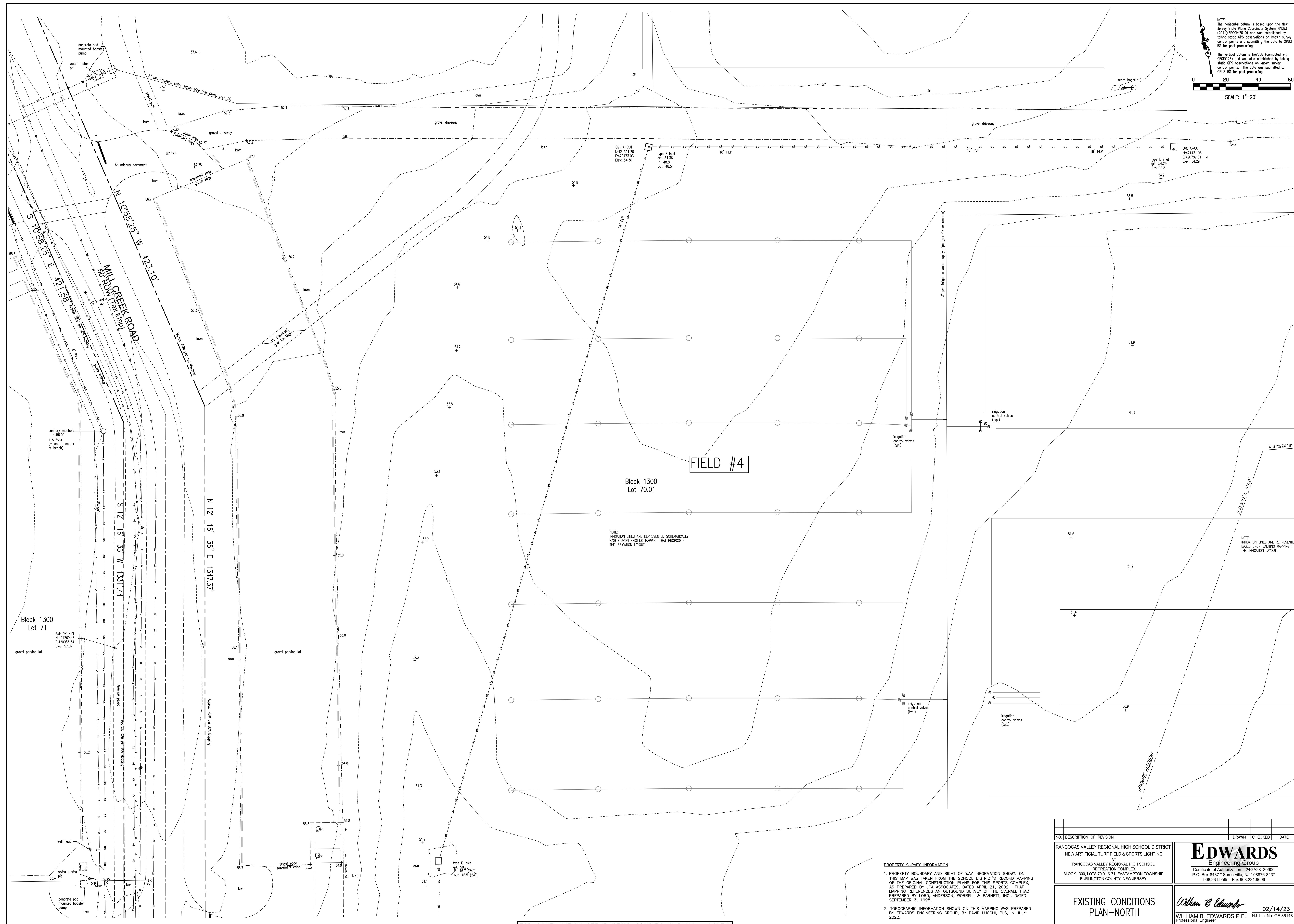
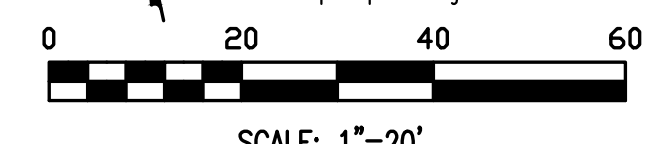
SCALE: 1" = 100'

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C-1.1	EXISTING CONDITIONS PLAN - SOUTH
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C-8.0	CONSTRUCTION DETAILS
C-8.1	CONSTRUCTION DETAILS
C-8.2	CONSTRUCTION DETAILS

PROPERTY SURVEY INFORMATION  
1. PROPERTY BOUNDARY AND RIGHT OF WAY INFORMATION SHOWN ON THIS MAP WAS TAKEN FROM THE SCHOOL DISTRICT'S RECORD MAPPING OF THE ORIGINAL CONSTRUCTION PLANS FOR THIS SPORTS COMPLEX, AS PREPARED BY JCA ASSOCIATES, DATED APRIL 21, 2002. THAT MAPPING REFERENCES AN OUTBOUND SURVEY OF THE OVERALL TRACT PREPARED BY LORD, ANDERSON, WORRELL & BARNETT, INC., DATED SEPTEMBER 3, 1998.  
2. TOPOGRAPHIC INFORMATION SHOWN ON THIS MAPPING WAS PREPARED BY EDWARDS ENGINEERING GROUP, BY DAVID LUCCHI, PLS, IN JULY 2022.

NO.	DESCRIPTION OF REVISION	DRAWN	CHECKED	DATE
<p>RANCOCAS VALLEY REGIONAL HIGH SCHOOL DISTRICT NEW ARTIFICIAL TURF FIELD &amp; SPORTS LIGHTING AT RANCOCAS VALLEY REGIONAL HIGH SCHOOL RECREATION COMPLEX BLOCK 1300, LOTS 70.01 &amp; 71, EASTAMPTON TOWNSHIP BURLINGTON COUNTY, NEW JERSEY</p>				
<p><b>EDWARDS</b> Engineering Group Certificate of Authorization: 24G026130900 P.O. Box 8437 • Somerville, NJ • 08876-8437 908.231.9595 • Fax 908.231.9696</p>				<p>02/14/23 Professional Engineer</p>
<p>COVER SHEET</p>				<p>02/14/23 NJ Lic. No. GE 36148</p>
<p>Date: 02/14/23   Drawn By: DL/SRP   Checked By: WBE   Scale: NOTED   File No.: 1073D   Sheet No.: C-0.0</p>				

NOTE:  
The horizontal datum is based upon the New Jersey State Plane Coordinate System NAD83 (2011) (EPOCH2010) and was established by taking static GPS observations on known survey control points and submitting the data to OPUS RS for post processing.  
The vertical datum is NAVD83 (computed with GEOID09) and was also established by taking static GPS observations on known survey control points. The data was submitted to OPUS RS for post processing.



NOTE: IRRIGATION LINES ARE REPRESENTED SCHEMATICALLY BASED UPON EXISTING MAPPING THAT PROPOSED THE IRRIGATION LAYOUT.

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FOR CONTINUATION SEE EXISTING CONDITIONS PLAN - SOUTH

SEE DRAWING C-1.1 FOR LEGEND & NOTES

NO.	DESCRIPTION OF REVISION	DRAWN	CHECKED	DATE

RANCOCAS VALLEY REGIONAL HIGH SCHOOL DISTRICT  
NEW ARTIFICIAL TURF FIELD & SPORTS LIGHTING  
AT  
RANCOCAS VALLEY REGIONAL HIGH SCHOOL  
RECREATION COMPLEX  
BLOCK 1300, LOTS 70.01 & 71, EASTAMPTON TOWNSHIP  
BURLINGTON COUNTY, NEW JERSEY

**EDWARDS**  
Engineering Group  
Certificate of Authorization: 24AG28130900  
P.O. Box 8437 • Somerville, NJ • 08876-8437  
908.231.9595 • Fax 908.231.9696

**EXISTING CONDITIONS  
PLAN-NORTH**

*William B. Edwards*  
WILLIAM B. EDWARDS P.E.  
Professional Engineer

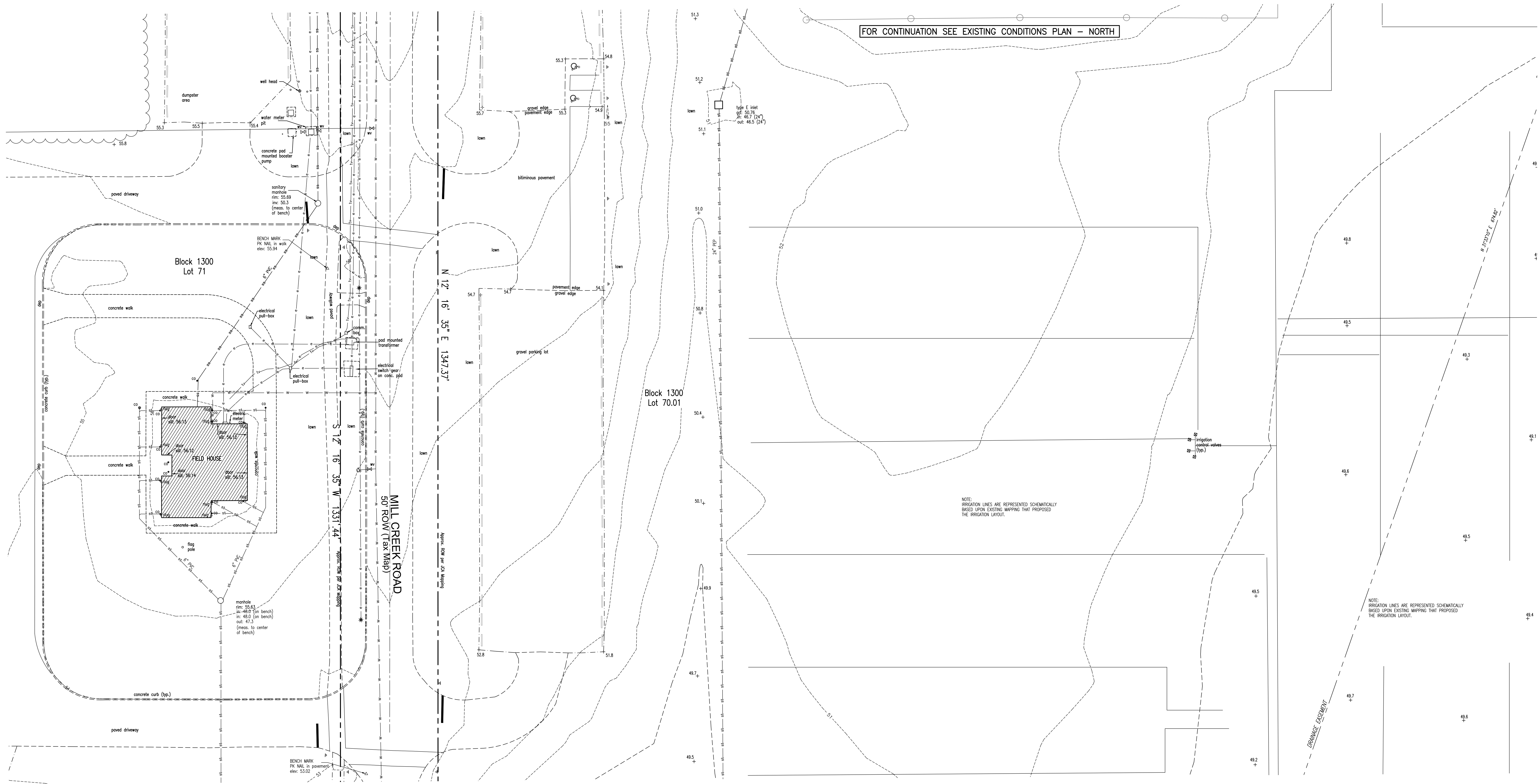
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Block 1300  
Lot 71

Block 1300  
Lot 70.01

FIELD #4



FOR CONTINUATION SEE EXISTING CONDITIONS PLAN - NORTH

NOTE: IRRIGATION LINES ARE REPRESENTED SCHEMATICALLY BASED UPON EXISTING MAPPING THAT PROPOSED THE IRRIGATION LAYOUT.

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EXISTING CONDITIONS PLAN - SOUTH

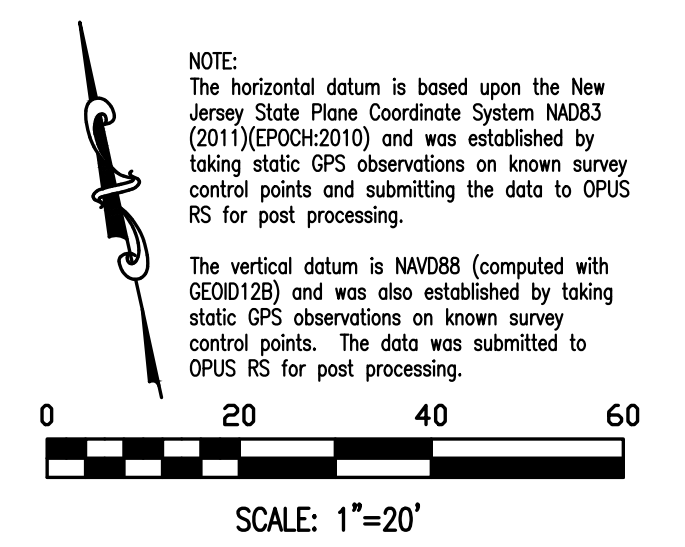
SCALE: 1" = 20'

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
Vertical Text	NOTES AND TEXT	---	PAVEMENT EDGE
○	MANHOLE	---	CURB/DEPRESSED CURB
□	INLET	---	CONCRETE SIDEWALK
SS	SANITARY SEWER	---	FENCE
ST	STORM SEWER	---	CONTOUR LINE
WV	VALVE-TYPE	+	SPOT ELEVATION
FD	FIRE HYDRANT	+	STREET & TRAFFIC SIGNS
W, G, E, T	UNDERGROUND UTILITIES: WATER-GAS-ELEC-TELE	+	SOIL TEST LOCATION
U	UTILITY POLE/W-LIGHT/LIGHT	+	SL LOG, SB, BORING, PERC TEST.
C	CLEANOUT	+	EVERGREEN/DECIDUOUS TREES

ABBREVIATIONS (UPPERCASE OR lowercase TEXT)			
ALT	ALTERNATE BID ITEM	G	NATURAL GAS
APPROX	APPROXIMATE	GRT	GRATE
BF	BARRIER FREE	GV	GAS VALVE
BC	BOTTOM CURB	H/C	HANDICAPPED
BT	BITUMINOUS	HP	HIGH POINT
BW	BOTTOM WALL	HP	FIRE HYDRANT
CATV	CABLE TV	HYD	HYDRANT
CLF	CHAIN LINK FENCE	INV	INVERT
C.O.	CLEAN OUT	IRR	IRRIGATION
CONC	CONCRETE	IRR	IRRIGATION
DC	DEPRESSED CURB	LF	LINEAR FEET
DEMO	DEMOLITION	LP	LOW POINT
DRP	DUCTILE IRON PIPE	MH	MANHOLE
DS	DOWN SPOUT	NH	NOT IN CONTRACT
EX	EXISTING	O/C	OVERHEAD ON CENTER
E	ELECTRIC	PC	POINT OF CURVE
FD	FIRE DEPT. CONN.	PCC	POINT OF COMPOUND CURVE
		PEP	POLYETHYLENE PIPE (HDPE)
		PROP	PROPOSED
		PT	POINT OF TANGENT
		PVC	POLYVINYL CHLORIDE PIPE
		RCP	REINFORCED CONC. PIPE
		RL	ROOF LEADER
		SCD	SOIL CONSERVATION DISTRICT
		ST	STORM
		SAN	SANITARY
		T	TELEPHONE
		TBR	TO BE REMOVED
		TC	TOP CURB
		TRANSF	TRANSFORMER
		TW	TOP WALL
		TYP	TYPICAL
		U/G	UNDERGROUND
		UP	UTILITY POLE
		V.I.F.	VERIFY IN FIELD
		W	WATER
		WV	WATER VALVE

- GENERAL SITE INFORMATION:**
- THE SUBJECT PROPERTY IS OWNED BY THE RANCOCAS VALLEY REGIONAL HIGH SCHOOL DISTRICT, BOARD OF EDUCATION AND IS KNOWN AS LOT 103, IN BLOCK 26001.
  - LANDS ALONG THE SOUTHERN PROPERTY BOUNDARY CONTAIN ENVIRONMENTALLY SENSITIVE AREAS INCLUDING A FLOOD HAZARD AREA, RIPARIAN ZONES, FRESHWATER WETLANDS, AND FRESHWATER WETLAND TRANSITION AREAS. NO WORK SHALL BE PERFORMED WITHIN 150 FEET OF THESE AREAS.
  - THE ENVIRONMENTALLY SENSITIVE AREAS ON THIS SITE ARE CONTAINED WITHIN A DRAINAGE EASEMENTS THAT WAS RECORDED BY DEED, THEREFORE, NO LAND DISTURBANCE MAY OCCUR BEYOND THE DESIGNATED LIMITS OF DISTURBANCE.
  - ALL WORK PROPOSED IN THIS PROJECT IS OUTSIDE OF ANY FLOOD HAZARD AREAS AND RIPARIAN ZONES.
  - ALL WORK IN THIS PROJECT IS BEING PERFORMED WELL INSIDE OF THE PROPERTY BOUNDARY.

- PROPERTY SURVEY INFORMATION**
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  - TOPOGRAPHIC INFORMATION SHOWN ON THIS MAPPING WAS PREPARED BY EDWARDS ENGINEERING GROUP, BY DAVID LUCCHI, PLS, IN JULY 2022.



- UNDERGROUND UTILITIES:**
- ALL UNDERGROUND UTILITIES REPRESENTED ON THIS PLAN ARE SHOWN APPROXIMATELY. IN ALL CASES THE EXACT DEPTH, SIZE AND ALIGNMENT OF UNDERGROUND PIPES, WIRES, AND OTHER FEATURES SHALL BE CONSIDERED UNKNOWN AND MUST BE FIELD VERIFIED AT THE START OF THE PROJECT.
  - ENGAGE THE SERVICES OF A PRIVATE UNDERGROUND UTILITY LOCATING AND MARK OUT SERVICE TO PERFORM A MARK OUT OF THE ENTIRE SITE. REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION ON THE MARK OUT AND REQUIRED TEST PITS.
  - CONDUCT TEST PITS AT ALL LOCATIONS WHERE PROPOSED UNDERGROUND UTILITIES (STORM, SANITARY, ELECTRIC, GAS, DATA) WILL CROSS EXISTING UNDERGROUND UTILITIES AND RECORD THE DEPTH, SIZE, AND ALIGNMENT OF EACH UTILITY AT THE CROSSING. VERIFY CLEARANCES CAN BE ACHIEVED WITHOUT DEVIATING FROM THE DESIGN INTENT. REPORT TO THE OWNER'S REPRESENTATIVE ANY POTENTIAL CONFLICTS VIA THE R.F.I. PROCESS.

- SOIL EROSION & SEDIMENT CONTROL NOTES:**
- SEE DRAWING C-7.0 ET SEQ. FOR SOIL EROSION AND SEDIMENT CONTROL MEASURES TO BE USED THROUGHOUT THE PROJECT.
  - SOIL EROSION & SEDIMENT CONTROL MEASURES SHALL BE INSTALLED BEFORE LAND DISTURBANCE OR ANY DEMOLITION WORK THAT WILL CAUSE EXCAVATION INTO THE SUBGRADE SOILS.

NO.	DESCRIPTION OF REVISION	DRAWN	CHECKED	DATE

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NEW ARTIFICIAL TURF FIELD & SPORTS LIGHTING  
AT  
RANCOCAS VALLEY REGIONAL HIGH SCHOOL  
RECREATION COMPLEX  
BLOCK 1300, LOTS 70.01 & 71, EASTAMPTON TOWNSHIP  
BURLINGTON COUNTY, NEW JERSEY

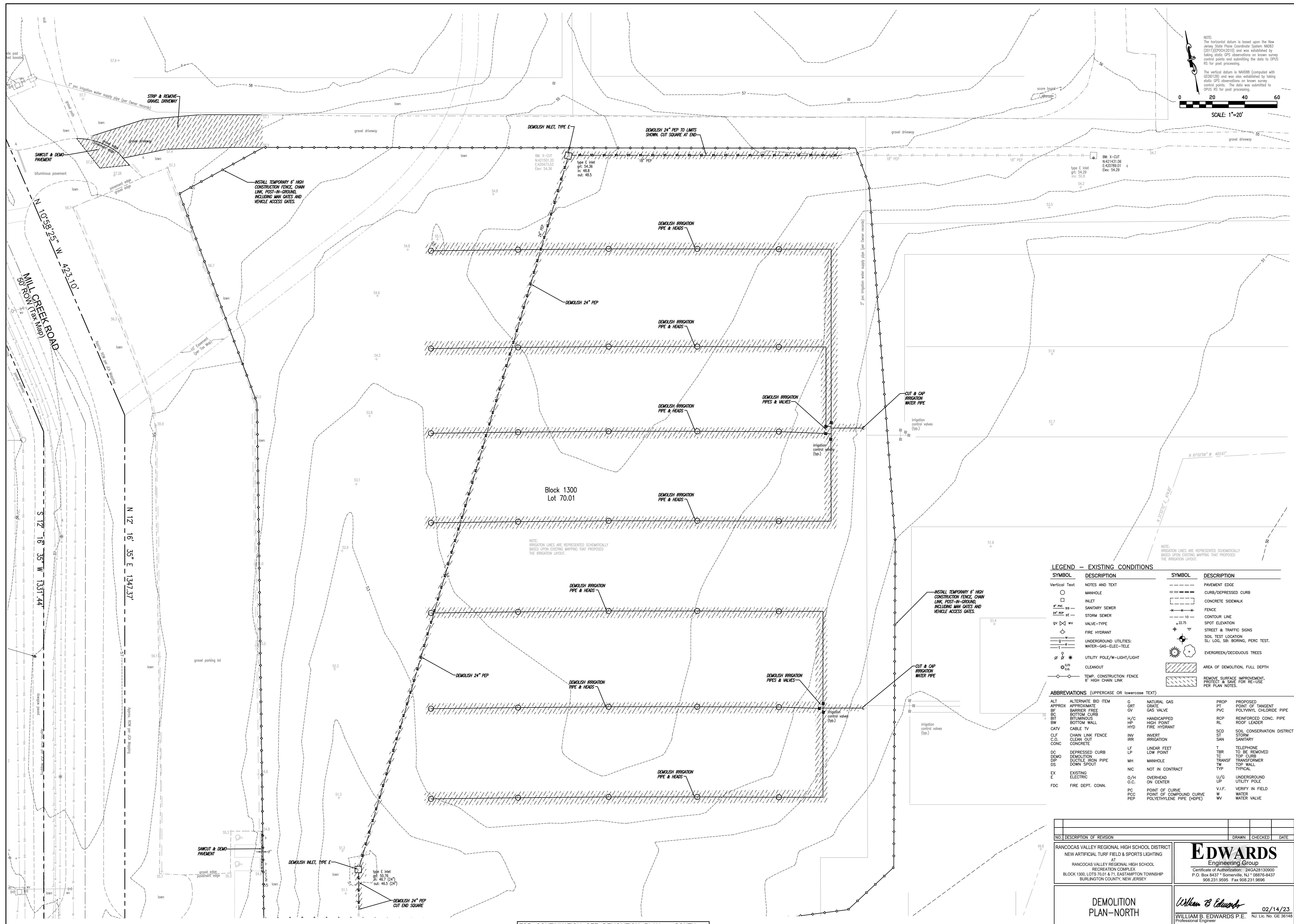
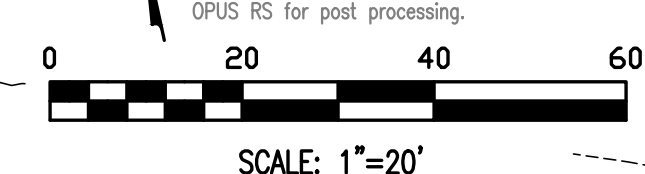
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EXISTING CONDITIONS  
PLAN-SOUTH

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Professional Engineer

Date: 02/14/23 | Drawn By: DL/SBP | Checked By: WBE | Scale: NOTED | File No.: 1073D | Sheet No.: C-1.1

NOTE:  
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The vertical datum is NAVD83 (compared with GEOID12) and was also established by taking static GPS observations on known survey control points. The data was submitted to OPUS RS for post processing.



**LEGEND - EXISTING CONDITIONS**

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
Vertical Text	NOTES AND TEXT	---	PAVEMENT EDGE
○	MANHOLE	---	CURB/DEPRESSED CURB
□	INLET	---	CONCRETE SIDEWALK
8" PVC	SANITARY SEWER	---	FENCE
24" RCP	STORM SEWER	---	CONTOUR LINE
9" x 6" W	VALVE-TYPE	± 22.75	SPOT ELEVATION
○	FIRE HYDRANT	± 22.75	STREET & TRAFFIC SIGNS
---	UNDERGROUND UTILITIES:	○	SOIL TEST LOCATION
---	WATER-GAS-ELEC-TELE	SL- LOG, SB- BORING, PERC TEST	
○	UTILITY POLE/W-LIGHT/LIGHT	○	EVERGREEN/DECIDUOUS TREES
○	CLEANOUT	■	AREA OF DEMOLITION, FULL DEPTH
○	TEMP. CONSTRUCTION FENCE	■	REMOVE SURFACE IMPROVEMENT, PROTECT & SAVE FOR RE-USE PER PLAN NOTES
○	6" HIGH CHAIN LINK		

**ABBREVIATIONS (UPPERCASE OR lowercase TEXT)**

ALT	ALTERNATE BID ITEM	G	NATURAL GAS	PROP	PROPOSED
APPROX	APPROXIMATE	GR	GRATE	PT	POINT OF TANGENT
BF	BARRIER FREE	GV	GAS VALVE	PVC	POLYVINYL CHLORIDE PIPE
BC	BOTTOM CURB	H/C	HANDICAPPED	RCP	REINFORCED CONC. PIPE
BIT	BITUMINOUS	HP	HIGH POINT	RL	ROOF LEADER
BW	BOTTOM WALL	HYD	FIRE HYDRANT	SCD	SOIL CONSERVATION DISTRICT
CATV	CABLE TV	IRR	IRRIGATION	ST	STORM
CLF	CHAIN LINK FENCE	INV	INVERT	SAN	SANITARY
C.O.	CLEAN OUT	LF	LINEAR FEET	T	TELEPHONE
CONC	CONCRETE	LP	LOW POINT	TBR	TO BE REMOVED
DC	DEPRESSED CURB	MH	MANHOLE	TC	TOP CURB
DEMO	DEMOLITION	OS	OVERHEAD	TRANSF	TRANSFORMER
DIP	DUCTILE IRON PIPE	ON	ON CENTER	TW	TOP WALL
DS	DOWN SPOUT	NIC	NOT IN CONTRACT	TYP	TYPICAL
EX	EXISTING	O/H	OVERHEAD	U/G	UNDERGROUND
E	ELECTRIC	O.C.	ON CENTER	UP	UTILITY POLE
FDC	FIRE DEPT. CONN.	PCC	POINT OF CURVE	V.I.F.	VERIFY IN FIELD
		PEP	POLYETHYLENE PIPE (HDPE)	W	WATER
				WV	WATER VALVE

FOR CONTINUATION SEE DEMOLITION PLAN - SOUTH

SEE DRAWING C-2.1 FOR DEMOLITION NOTES

NO.	DESCRIPTION OF REVISION	DRAWN	CHECKED	DATE

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NEW ARTIFICIAL TURF FIELD & SPORTS LIGHTING  
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RANOCAS VALLEY REGIONAL HIGH SCHOOL  
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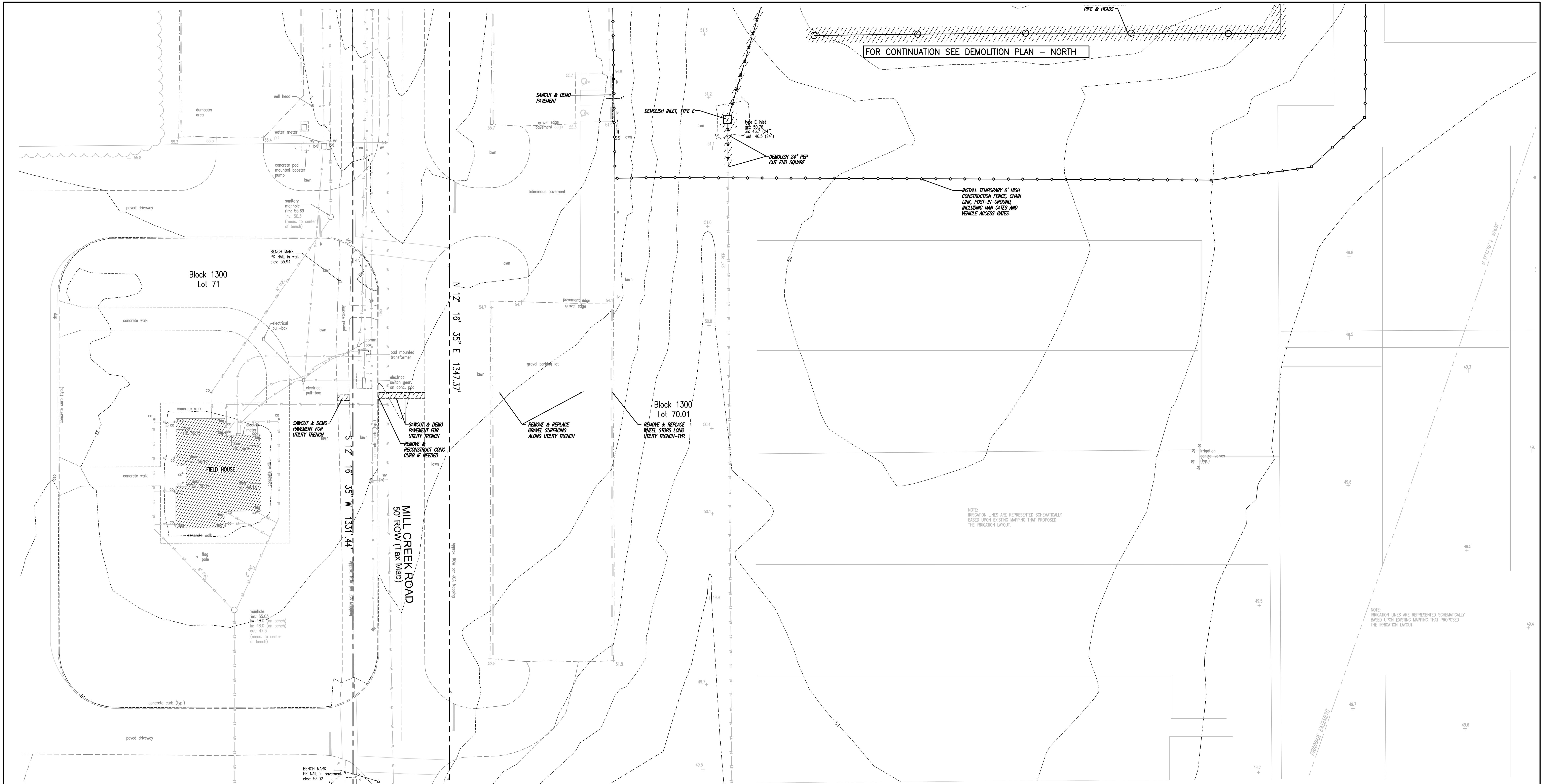
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**DEMOLITION PLAN-NORTH**

*William B. Edwards*  
WILLIAM B. EDWARDS P.E.  
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02/14/23  
NJ Lic. No. GE 36148

Date: 02/14/23 Drawn By: DL/SRP Checked By: WBE Scale: NOTED File No.: 10730 Sheet No.: C-2.0



**LEGEND - EXISTING CONDITIONS**

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
Vertical Text	NOTES AND TEXT	---	PAVEMENT EDGE
□	MANHOLE	---	CURB/DEPRESSED CURB
○	INLET	---	CONCRETE SIDEWALK
SS	SANITARY SEWER	---	FENCE
ST	STORM SEWER	---	CONTOUR LINE
WV	VALVE-TYPE	+	SPOT ELEVATION
FD	FIRE HYDRANT	+	STREET & TRAFFIC SIGNS
U	UNDERGROUND UTILITIES:	+	SOIL TEST LOCATION
W	WATER-GAS-ELEC-TELE	+	SIL. LOG, SB, BORING, PERC TEST.
L	LIGHT	+	EVERGREEN/DECIDUOUS TREES
LP	UTILITY POLE/W-LIGHT/LIGHT	+	AREA OF DEMOLITION, FULL DEPTH
CA	CLEANOUT	+	REMOVE SURFACE IMPROVEMENT, PROTECT & SAVE FOR RE-USE PER PLAN NOTES.
CC	CONC.	+	
CL	TEMP. CONSTRUCTION FENCE 6' HIGH CHAIN LINK	+	

**ABBREVIATIONS (UPPERCASE OR lowercase TEXT)**

ALT	ALTERNATE BID ITEM	G	NATURAL GAS	PROP	PROPOSED
APPRX	APPROXIMATE	GRT	GRATE	PT	POINT OF TANGENT
BF	BARRIER FREE	GV	GAS VALVE	PVC	POLYVINYL CHLORIDE PIPE
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BW	BOTTOM WALL	HYD	FIRE HYDRANT	SCD	SOIL CONSERVATION DISTRICT
CATV	CABLE TV	INV	INVERT	ST	STORM
CLF	CHAIN LINK FENCE	IRR	IRRIGATION	ST	SANITARY
C.O.	CLEAN OUT	LF	LINEAR FEET	TBR	TO BE REMOVED
CONC	CONCRETE	LP	LOW POINT	TC	TOP CURB
DC	DEPRESSED CURB	MF	MANHOLE	TRANS	TRANSFORMER
DEM	DEMOLITION	NI	NOT IN CONTRACT	TYP	TYPICAL
DIP	DOWNSPOUT	NIC	NOT IN CONTRACT	U/H	UNDERGROUND
EX	EXISTING	O/C	OVERHEAD	U/G	UTILITY POLE
E	ELECTRIC	ON	ON CENTER	V.F.	VERIFY IN FIELD
FD	FIRE DEPT. CONN.	PC	POINT OF CURVE	W	WATER
		PCC	POINT OF COMPOUND CURVE	WV	WATER VALVE
		PEP	POLYETHYLENE PIPE (HDPE)		

**DEMOLITION NOTES:**

- INSTALL TEMPORARY 6 FT. HIGH CHAIN LINK CONSTRUCTION FENCE AROUND THE ENTIRE WORK AREA TO PREVENT PUBLIC ACCESS TO ALL WORK AREAS. THE FENCING MAY BE MOVED AROUND THE SITE AS WORK PROGRESSES TO SMALLER AREAS. ALSO SEE SITE MAINTENANCE NOTES.
- THE LOCATION OF ALL UNDERGROUND UTILITIES SHOWN ON THE PLAN IS APPROXIMATE. ENGAGE THE SERVICES OF A PRIVATE UNDERGROUND UTILITY LOCATION AND MARK OUT SERVICE TO MARK THE LOCATION OF ALL UNDERGROUND UTILITIES WITHIN THE SCOPE OF THIS PROJECT. THE NO ONE CALL SERVICE MAY NOT PERFORM A LOCATION WITH THE SCHOOL SITE, THEREFORE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERTAKE THIS WORK, MAINTAIN THE MARK OUT THROUGHOUT THE ENTIRE PROJECT, UNTIL SUCH TIME AS SURFACES ARE INSTALLED AND NO FURTHER SUBSURFACE PENETRATIONS WILL OCCUR.
- DEMOLISH THE EXISTING SCOREBOARD & SUPPORT COLUMNS, DISCONNECT POWER AT PANEL. PROVIDED THE SCOREBOARD FOOTINGS DO NOT INTERFERE WITH FUTURE WORK, THE STEEL COLUMNS MAY BE CUT OFF 12" BELOW GRADE AND ABANDONED IN PLACE. WORK CAREFULLY TO AVOID DISTURBING THE EXISTING ADJACENT WALL AND GEOSD THAT IS INSTALLED BEHIND THE WALL.
- DEMOLISH ALL SITE IMPROVEMENTS NOTED ON THE PLANS, FULL DEPTH, INCLUDING, BUT NOT LIMITED TO: EXCESS SOIL, DEBRIS, FENCE & RAIL, CONCRETE, EQUIPMENT, PAVEMENT, FOLIAGE, ETCETERA. INCLUDE DISPOSAL OF SAME IN A LEGAL MANNER OFF-SITE. RECYCLE MATERIALS WHENEVER POSSIBLE.
- ALL EXCESS SOIL REMOVED FROM EXCAVATION OF THE FIELD IS REMOVED FROM THE PROJECT SITE. NO EXCESS SOIL MAY BE SPREAD OR STOCKPILED ON THE SUBJECT PROPERTY.
- ALL ITEMS ACCIDENTALLY DISTURBED OR DAMAGED BY DEMOLITION, SAW CUTTING, EXCAVATION, ETCETERA, THAT ARE TO REMAIN, SHALL BE REPLACED, RESET, OR RECONSTRUCTED AS REQUIRED TO RESTORE STRUCTURAL INTEGRITY AND SUITABLE (LIKE NEW) APPEARANCE AT NO ADDITIONAL COST.
- ALL MATERIALS AND EQUIPMENT THAT ARE TO BE RE-USED IN NEW CONSTRUCTION (I.E. MEMORIALS, ENGRAVED PAVEMENT BRICKS, ETC.) SHALL BE STORED IN A SAFE LOCATION AT THE PROJECT WORK SITE. ALL MATERIALS THAT ARE NOTED TO BE RE-USED SHALL BE CAREFULLY DISMANTLED TO AVOID DAMAGE. ALL PARTS SHALL BE IDENTIFIED AND SECURELY BAGGED. ANY DAMAGED OR LOST EQUIPMENT, HARDWARE, PARTS, OR MATERIALS THAT ARE TO BE RE-USED SHALL BE REPLACED WITH NEW MATERIAL OF EQUIVALENT SIZE AND COMPOSITION. DISASSEMBLE AND DISMANTLE EQUIPMENT ONLY AS MUCH AS NEEDED TO SAFELY REMOVE AND RELOCATE SAME WITHOUT DAMAGING OR COMPROMISING ITS INTEGRITY.
- A SMOOTH UNIFORM EDGE MUST BE PROVIDED ALONG THE LIMIT OF PAVEMENT REMOVAL. THE CONTRACTOR SHALL SAW-CUT THE PAVEMENT ALONG THE LIMIT OF PAVEMENT DEMOLITION.
- THE Voids CREATED BY THE DEMOLITION AND REMOVAL OF SITE FEATURES AND OTHER STRUCTURES, SHALL BE BACKFILLED WITH IMPORTED DENSE GRADES. THE CONTRACTOR SHALL MAINTAIN THE ON-SITE SUBGRADE SOIL THAT HAS BEEN PREPARED TO CONTROL ITS MOISTURE CONTENT MAY BE USED AS BACKFILL PROVIDED THAT THE CONTRACTOR'S GEOTECHNICAL ENGINEER CERTIFIES ITS SUITABILITY FOR RE-USE AND VERIFIES THAT FULL COMPACTION HAS BEEN ACHIEVED, AS PER THE EARTHWORK SPECIFICATIONS. NO SEPARATE PAYMENT WILL BE MADE FOR THE IMPORTED MATERIAL. ALL BACKFILL SHALL BE PLACED IN 6" LIFTS AND COMPACTED TO SIX MODIFIED PROCTOR DENSITY PER ASTM D-1557.
- PHASE THE DEMOLITION OF HARD SURFACES AND THE STRIPPING OF LAWN AREAS TO MINIMIZE THE EXPOSURE OF SUSCEPTIBLE TO INCLEMENT WEATHER. IT IS RECOMMENDED THAT LAWN AREAS REMAIN INTACT AS LONG AS FEASIBLE TO CONTROL EROSION AND TO AVOID SOIL SATURATION ISSUES. PHASE THE STRIPPING AND CLEARING OF LAWN AREAS IN THE PROJECT.
- STRIP ALL GRASS, ROOT MASS, AND TOP SOIL FROM THE CONSTRUCTION SITE WITHIN THE FOOTPRINT THAT WILL BE OCCUPIED BY THE FIELD AND ADJACENT HARDSCAPE (WALKWAYS, PLAZA, ETC.). KEEP THE ORGANIC MATERIAL SEGREGATED FROM THE REMAINDER OF THE TOPSOIL. DISPOSE OF ALL WASTE ORGANIC MATERIALS OFF SITE IN A LEGAL MANNER.

**DEMOLITION NOTES (continued):**

- PROVIDE DE-WATERING MEASURES AND THE FILTRATION OF PUMPED WATER AS SHOWN ON THE SOIL EROSION & SEDIMENT CONTROL PLAN.
- ALL BACKFILLING AND SOIL COMPACTION SHALL BE OBSERVED AND TESTED BY THE CONTRACTOR'S GEOTECHNICAL ENGINEER.
- INSTALL DE-WATERING MEASURES AREA-BY-AREA, AS EARTHWORK PROGRESSES. SEE SITE MAINTENANCE NOTES AND EARTHWORK SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- REFER TO DRAWING C-5.0 FOR THE LOCATION, ALIGNMENT, AND DEPTH OF NEW STORM SEWER SYSTEM PIPING AND INLETS. ALSO REFER TO DRAWING C-4.2 FOR EARTHWORK INFORMATION.
- DO NOT DEMOLISH ANY PAVEMENT, CURB OR OTHER SURFACES WITHIN THE PUBLIC RIGHT OF WAY WITHOUT HAVING FIRST OBTAINED A ROAD OPENING PERMIT FROM THE TOWN.
- MAINTAIN ALL SITE FENCING AROUND THE STADIUM UNTIL SUCH TIME AS NEW FENCING WILL BE INSTALLED. THE DEMOLITION PLANS DEPICT THE LOCATION OF TEMPORARY CONSTRUCTION FENCE FOR THE BASE BID. ALL CONSTRUCTION AREAS SHALL BE SECURED AT ALL TIMES FROM PUBLIC ACCESS. FURNISH LOCKABLE ACCESS GATES, AND MAN GATES AS NEEDED AND FURNISH THE OWNER DUPLICATE KEYS TO ALL LOCKS. ALSO SEE SITE MAINTENANCE NOTES.
- EXCAVATE TEST PITS AT THE COMMENCEMENT OF THE PROJECT AT ALL LOCATIONS WHERE NEW UNDERGROUND UTILITIES AND SEWERS ARE INDICATED TO CROSS OR CONNECT TO EXISTING UTILITIES. CONFIRM THAT PROPER CLEARANCES EXIST BETWEEN NEW AND EXISTING PIPES/CONDUITS. REPORT TO THE ENGINEER ANY CONFLICTS AS PART OF THE REQUEST FOR INFORMATION (RFI) PROCESS. INCLUDE IN THE BASE BID UP TO 5 ADDITIONAL TEST PITS TO BE USED AT THE DISCRETION OF THE ENGINEER.
- INSTALL SOIL EROSION & SEDIMENT CONTROL MEASURES PRIOR TO ANY LAND DISTURBANCE.
- REFER TO THE TOPSOIL NOTES FOR ADDITIONAL INFORMATION.

**TOPSOIL NOTES:**

- SOILS INVESTIGATIONS REVEALED THAT TOPSOIL THICKNESS RANGES FROM 3" TO 6 INCHES AND AVERAGES 4.9 INCHES ACROSS THE ENTIRE SITE. THE CONTRACTOR SHALL STRIP ALL GRASS, ROOT MASS, AND TOPSOIL FROM ALL AREAS WHERE RE-GRADING AND EARTHWORK WILL OCCUR. DISPOSE OF ORGANIC WASTE IN A LEGAL MANNER OFF SITE. THE STRIPPING SHOULD BE PHASED TO AVOID LEAVING BARE SOIL EXPOSED FOR LONGER THAN NEEDED.
- STORE TOPSOIL IN A TEMPORARY STOCKPILE AS NOTED ON THE SOIL EROSION & SEDIMENT CONTROL PLAN.
- APPLY TEMPORARY SEEDING TO THE STOCKPILE, AS PER THE SOIL EROSION & SEDIMENT CONTROL PLAN.
- ALL COSTS ASSOCIATED WITH THE TASKS NOTED ABOVE SHALL BE INCLUDED IN THE BASE BID.

**SITE MAINTENANCE REQUIREMENTS:**

- INSTALL DE-WATERING MEASURES AT THE COMMENCEMENT OF EARTHWORK OPERATIONS AND MAINTAIN DE-WATERING OF ALL OPEN EXCAVATIONS THROUGHOUT CONSTRUCTION. STORM WATER RUNOFF MUST BE IMMEDIATELY EVACUATED FROM THE PROJECT SITE THROUGH DE-WATERING PRACTICES. WATER MUST NOT BE TRAPPED OR ALLOWED TO POOL IN ANY AREA. DE-WATERING MEASURES SHALL INCLUDE DE-WATERING PUMPS AND A MEANS OF FILTERING SEDIMENT AND SILT FROM THE WATER BEFORE IT IS DISCHARGED INTO DOWNSTREAM DRAINAGE SYSTEMS.
- THE CONTRACTOR MUST COORDINATE WITH ITS GEOTECHNICAL ENGINEER TO OVERSEE ALL EARTHWORK. CONTRACTOR MUST INSURE THAT EXISTING SOILS ARE CONDITIONED TO BE AT OR NEAR OPTIMUM MOISTURE LEVELS FOR COMPACTION. THE CONTRACTOR'S GEOTECHNICAL ENGINEER MUST DOCUMENT SOIL CONDITIONS WHEN FINAL SUBGRADE ELEVATIONS ARE REACHED AND MAKE RECOMMENDATIONS FOR RE-CONDITIONING SAME TO INSURE MAXIMUM COMPACTION.
- ANY SOIL THAT IS SATURATED SHALL BE DRIED BY THE CONTRACTOR TO RESTORE OPTIMUM MOISTURE LEVEL (VERIFIED BY THE CONTRACTOR'S GEOTECHNICAL ENGINEER) SOILS THAT ARE SATURATED AND CANNOT BE RECONDITIONED IN SURFICIENT TIME, WITHOUT AFFECTING THE PROJECT SCHEDULE, SHALL BE REMOVED AND REPLACED WITH SUITABLE COMPACTED SOIL (DENSE GRADED AGGREGATE) AT THE CONTRACTOR'S EXPENSE. SEE NOTE #1 ABOVE.
- PROTECT ADJACENT AREAS TO MAINTAIN THEIR ORIGINAL CONDITION THROUGHOUT CONSTRUCTION. ANY AREAS DAMAGED OR DISTURBED BY THE CONTRACTOR SHALL BE RESTORED TO A "LIKE NEW" CONDITION AT THE CONTRACTOR'S EXPENSE.
- MAINTAIN THE UNDERGROUND UTILITY MARK-OUT THROUGHOUT CONSTRUCTION.
- PRESERVE AND MAINTAIN SURVEY CONTROL POINTS THROUGHOUT CONSTRUCTION.
- SWEEP AND MAINTAIN ALL PAVEMENT AREAS TO A "BROOM CLEAN" CONDITION AROUND ALL WORK AREAS. SOIL AND DEBRIS SHALL NOT BE TRACKED OUTSIDE THE WORK AREA.
- INSTALL TEMPORARY POST-IN-GROUND, 6 FOOT HIGH CONSTRUCTION FENCING AS SHOWN ON THE PLAN AND AS NEEDED TO SECURE THE SITE. INCLUDE VEHICLE GATES AND MAN GATES AS NEEDED. THE OWNER RESERVES THE RIGHT TO REQUIRE THE INSTALLATION OF ADDITIONAL CONSTRUCTION FENCING TO MAINTAIN SITE SAFETY AND SECURITY AT NO ADDITIONAL COST. THE TEMPORARY CONSTRUCTION FENCING SHOWN ON THE PLANS SHALL BE CONSIDERED THE MINIMUM AMOUNT NEEDED. MAINTAIN EXISTING SITE CHAIN LINK FENCING THAT IS 6 FEET OR HIGHER TO SERVE AS CONSTRUCTION FENCE UNTIL SUCH TIME AS IT MUST BE REMOVED IN FAVOR OF NEW CONSTRUCTION. PROVIDE ADDITIONAL TEMPORARY CHAIN LINK FENCE TO SECURE THE SITE FOR ALL TIMES WHEN EXISTING FENCE MUST BE REMOVED.

NO.	DESCRIPTION OF REVISION	DRAWN	CHECKED	DATE
1	RANOCAS VALLEY REGIONAL HIGH SCHOOL DISTRICT NEW ARTIFICIAL TURF FIELD & SPORTS LIGHTING AT RANOCAS VALLEY REGIONAL HIGH SCHOOL RECREATION COMPLEX BLOCK 1300, LOTS 70.01 & 71, EASTAMPTON TOWNSHIP BURLINGTON COUNTY, NEW JERSEY			

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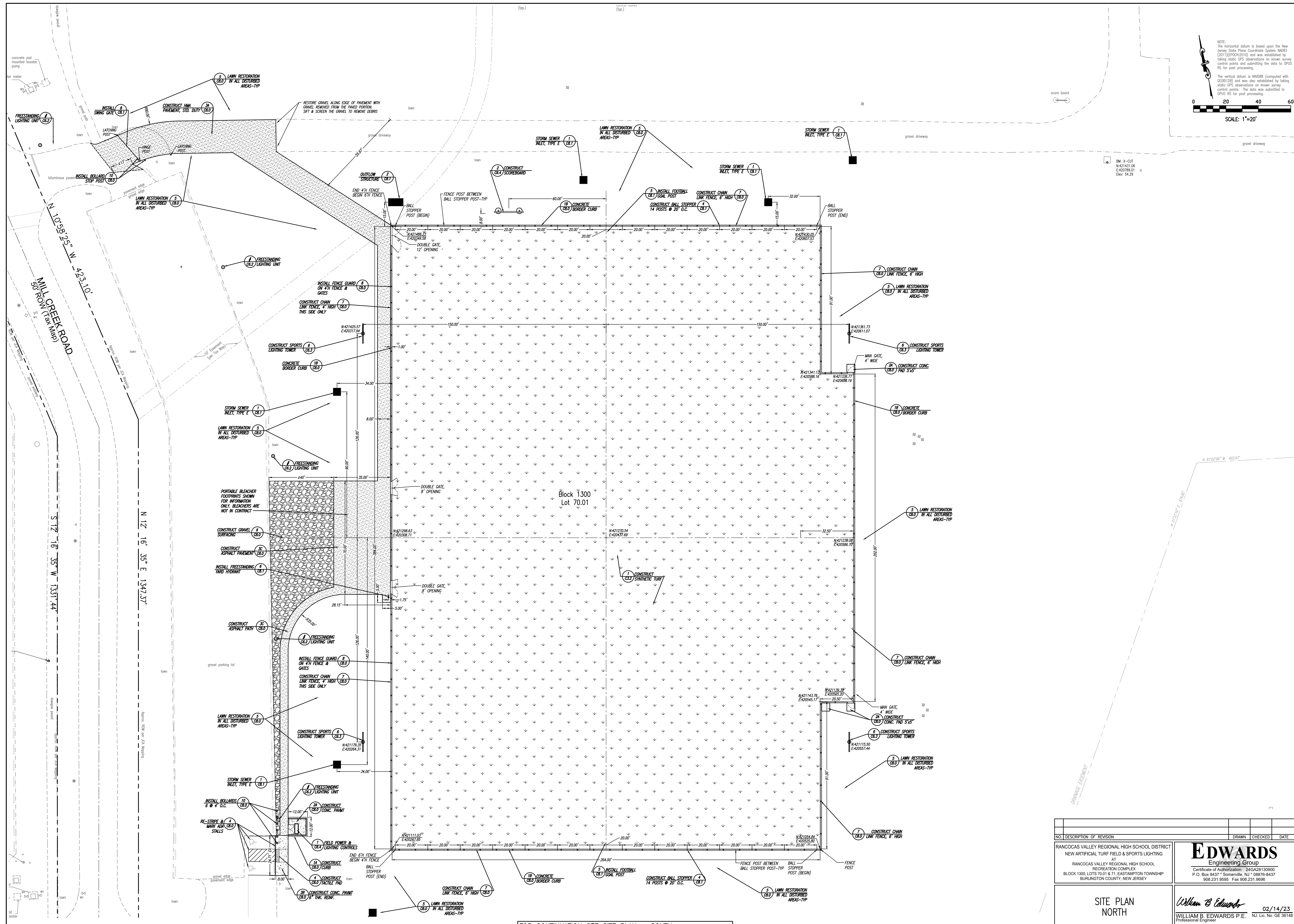
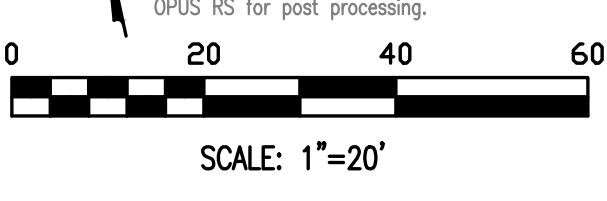
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**DEMOLITION PLAN-SOUTH**

02/14/23

Date: 02/14/23 Drawn By: BL/SRP Checked By: WBE Scale: NOTED File No.: 10730 Sheet No.: C-2.1

NOTE:  
The vertical datum is based upon the New Jersey State Plane Coordinate System NAD83 (2011) (EPOCH2010) and was established by taking static GPS observations on known survey control points and submitting the data to OPUS RS for post processing.  
The vertical datum is NAVD83 (computed with GDA09) and was also established by taking static GPS observations on known survey control points. The data was submitted to OPUS RS for post processing.



FOR CONTINUATION SEE SITE PLAN - SOUTH

SEE DRAWING C-3.1 FOR CONSTRUCTION NOTES

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RANCOCAS VALLEY REGIONAL HIGH SCHOOL DISTRICT  
NEW ARTIFICIAL TURF FIELD & SPORTS LIGHTING  
AT  
RANCOCAS VALLEY REGIONAL HIGH SCHOOL  
RECREATION COMPLEX  
BLOCK 1300, LOTS 70.01 & 71, EASTAMPTON TOWNSHIP  
BURLINGTON COUNTY, NEW JERSEY

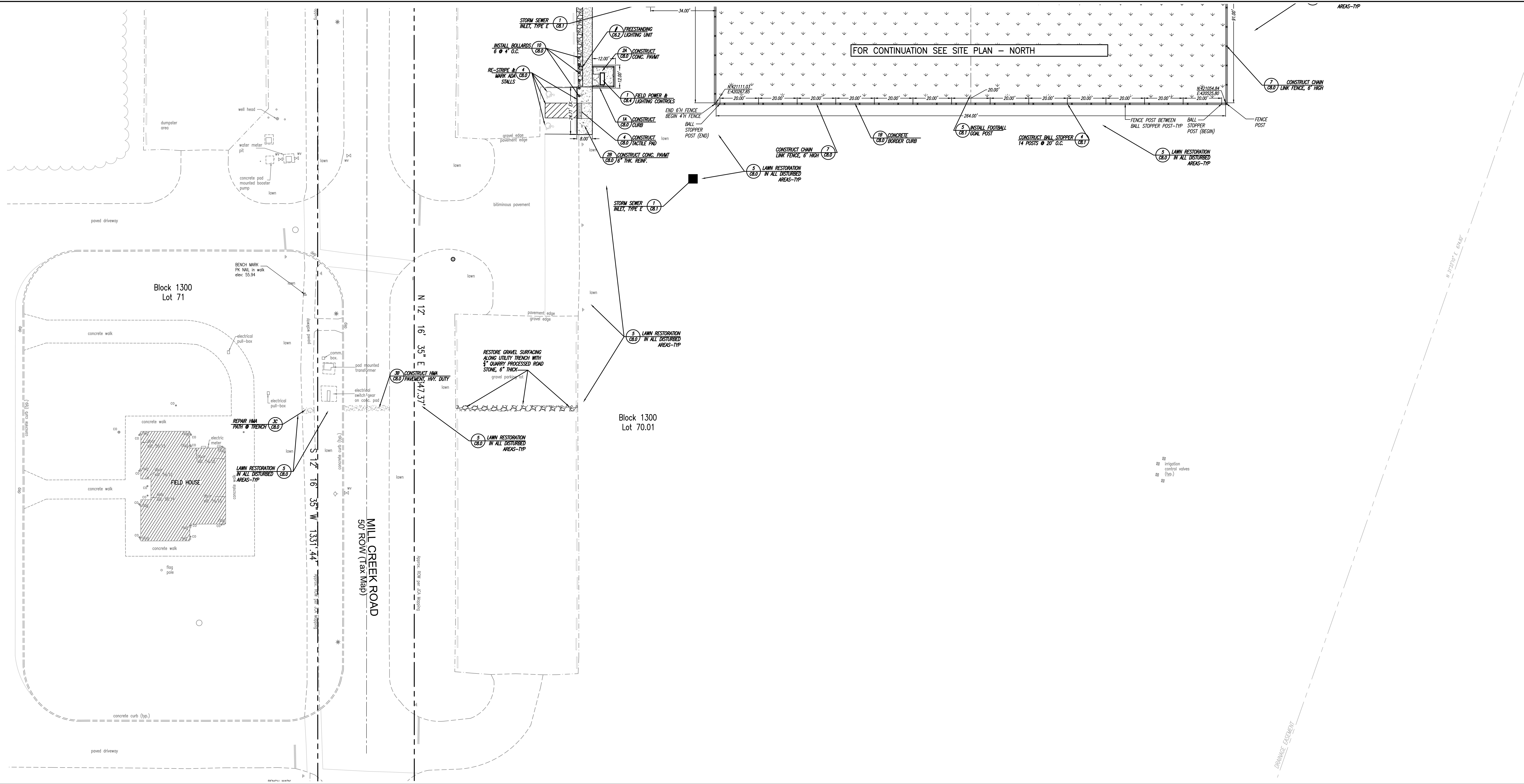
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**SITE PLAN  
NORTH**

Date: 02/14/23 Drawn By: DL/SRP Checked By: WBE Scale: NOTED File No.: 1073D Sheet No.: C-3.0



**FIELD ENGINEERING NOTES:**

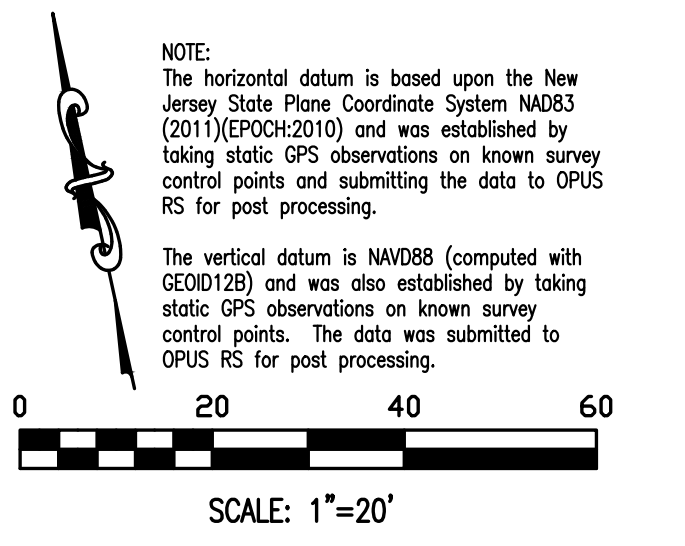
1. ALL AVAILABLE SURVEY CONTROL INFORMATION IS SHOWN ON THE DRAWINGS. ELEVATION BENCHMARKS AND CONTROL LAYOUT COORDINATES HAVE BEEN PROVIDED ON THE PLANS AT KEY LOCATIONS. THE ENGINEER WILL NOT RELEASE THE PLAN SET IN AUTOCAD DRAWING FORMAT. A SEPARATE CAD FILE CONTAINING THE DESIGN INFORMATION SHOWN ON THE PLANS MAY BE PROVIDED TO THE CONTRACTOR UPON THE CONTRACTOR'S COMPLETION OF A "USE & INDEMNIFICATION" AGREEMENT. IT SHOULD BE UNDERSTOOD BY THE CONTRACTOR AND/OR HIS SURVEYOR THAT THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED IN THE ELECTRONIC FORMAT IS NEITHER GUARANTEED NOR IMPLIED.
2. CONSTRUCTION SURVEY STAKE-OUT AND LAYOUT WORK SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR. ALL PROPOSED CONSTRUCTION SHALL HAVE A SURVEY STAKE-OUT.
3. IF THE CONTRACTOR BELIEVES THAT A MAJOR DISCREPANCY EXISTS BETWEEN THE INFORMATION SHOWN ON THESE PLANS AND ACTUAL FIELD CONDITIONS, THEN THE CONTRACTOR'S LICENSED LAND SURVEYOR SHALL PERFORM WORK NECESSARY TO CLEARLY DOCUMENT THE DISCREPANCY IN MAP FORM FOR PRESENTATION TO THE ENGINEER FOR REVIEW AND ACTION.
4. THE CONTRACTOR MUST ENGAGE THE SERVICES OF A LICENSED GEOTECHNICAL (SOILS) ENGINEER TO OVERSEE AND CERTIFY ALL EARTHWORK AND SOIL COMPACTION FOR THE PROJECT. SOIL COMPACTION TEST REPORTS MUST BE SUBMITTED TO THE OWNER (VIA ARCHITECT) FOR REVIEW AND ACCEPTANCE PRIOR TO CONSTRUCTING SURFACE IMPROVEMENTS. THE OWNER WILL NOT ACCEPT ANY WORK THAT IS CONSTRUCTED ATOP SOILS THAT HAVE NOT BEEN TESTED (AND APPROVED) FOR COMPACTION. LEAVE SUFFICIENT TIME IN THE CONSTRUCTION SCHEDULE FOR SOIL COMPACTION, SOIL TESTING, AND THE OWNER'S REVIEW OF THE TEST RESULTS.
5. THE CONTRACTOR MUST ENGAGE A MATERIALS TESTING AND INSPECTION COMPANY TO VERIFY THE COMPOSITION, THICKNESS, SIZE, AND STRENGTH OF ALL MATERIALS USED IN THE PROJECT, IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, RECOGNIZED INDUSTRY STANDARDS, AND AS FURTHER STIPULATED IN THE PROJECT SPECIFICATIONS.
6. THE CONTRACTOR AND HIS LAND SURVEYOR SHALL TAKE MEASUREMENTS AND PERFORM PERIODIC CONTROL SURVEYS AS NEEDED THROUGHOUT THE DURATION OF THE PROJECT TO CONFIRM THAT ALL WORK IS BEING CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. INTERIM TOPOGRAPHIC SURVEYS MUST BE SUBMITTED TO THE ENGINEER AT CRITICAL MILESTONES IN THE PROJECT, INCLUDING:
  - a.) WHEN SUBGRADE ELEVATIONS HAVE BEEN REACHED IN THE NEW TURF FIELD, BEFORE THE CONSTRUCTION OF THE UNDERGROUND STORM WATER MANAGEMENT SYSTEM.
  - b.) WHEN THE TURF FIELD FINISHING STONE HAS BEEN CONSTRUCTED, COMPACTED, AND ROLLED TO ITS FINAL PLANARITY (PRIOR TO TURF INSTALLATION).
  - c.) TO DOCUMENT FOOTING AND FOUNDATION ELEVATIONS AND LOCATIONS.
7. A FINAL, SIGNED AND SEALED, AS-BUILT SURVEY MUST BE SUBMITTED AS EXPLAINED IN THE PROJECT SPECIFICATIONS. THE SURVEY MUST BE SUFFICIENTLY DETAILED SO AS TO CLEARLY DOCUMENT THE LOCATION, ALIGNMENT AND DEPTH OF CONSTRUCTED IMPROVEMENTS AND TO CONFIRM THAT THE SITE GRADING OF ALL IMPROVEMENTS HAS BEEN COMPLETED IN ACCORDANCE WITH THE DESIGN INTENT. THIS IS ESPECIALLY IMPORTANT ALONG WALKWAY PLACES, AND ADA ROUTES WHERE CODE REQUIREMENTS WILL APPLY.
8. SUBMITTALS SHALL BE PROVIDED TO THE ENGINEER AT THE BEGINNING OF THE PROJECT, DURING THE DEMOLITION STAGE OR EARLIER. SUBMITTALS MUST NOT PROPOSE DESIGN CHANGES OR DEVIATIONS FROM THE DESIGN INTENT THAT HAVE NOT BEEN ADDRESSED THROUGH THE REQUEST FOR INFORMATION (RFI) PROCESS. THE RFI PROCESS MUST BE DOCUMENTED IN WRITING FROM THE OWNER'S ENGINEER BEFORE SAID CHANGE MAY BE INCLUDED IN A SUBMITTAL.

**CONSTRUCTION NOTES:**

1. THE OWNER IS PAYING FOR NEW CONSTRUCTION, NOT POORLY CONSTRUCTED SITE IMPROVEMENTS THAT ARE PATCHED AND REPAIRED. ALL CONSTRUCTION SHALL BE FINISHED TO INDUSTRY STANDARDS AND COMPLETED IN A PROFESSIONAL "WORKMANLIKE" MANNER. ALL PERMANENT SURFACES SHALL BE FINISHED UNIFORM AND SURFACES SHALL NOT HAVE ANY NOTICEABLE DEFECTS, VOIDS, CRACKS, STAINS OR UNDULATIONS.
2. THE PLANS SHALL BE ON-SITE DURING ALL TIMES OF CONSTRUCTION.
3. ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED BEFORE ANY LAND DISTURBANCE OCCURS AND SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT.
4. THE LOCATION OF EXISTING UTILITIES ARE SHOWN APPROXIMATELY. THE CONTRACTOR MUST VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES WITHIN THE SCOPE OF CONSTRUCTION BEFORE COMMENCING WITH ANY WORK. EXCAVATE TEST PITS AT ALL LOCATIONS WHERE NEW UNDERGROUND UTILITIES AND SEWERS WILL CROSS EXISTING UTILITIES. REPORT TO THE ENGINEER, THE DEPTH (ELEVATION), SIZE, AND ALIGNMENT OF ALL UNDERGROUND UTILITIES EXPOSED AS PART OF THE TEST PIT OPERATION. THE CONTRACTOR MUST MAKE WHATEVER ADJUSTMENTS NECESSARY TO INSURE THE PROPER CONNECTIONS OF NEW PIPES AND SERVICES. GRAVITY FED UTILITIES TAKE PRECEDENCE OVER PRESSURE FED UTILITIES. WHEN CONFLICTS OCCUR, ADJUST THE DEPTH OF NEW PRESSURE FED UTILITIES TO PASS UNDER GRAVITY FED UTILITIES AS NEEDED. INCREASE THE DEPTH OF NEW PRESSURE FED UTILITIES UP TO 2 FEET DEEPER THAN NOTED ON THE PLANS, AT NO ADDITIONAL COST.
5. AREAS ADJACENT TO CONSTRUCTION MUST BE RESTORED TO ORIGINAL ("LIKE NEW") CONDITION, IF DISTURBED, AT NO ADDITIONAL COST. MINIMUM RESTORATION IN GRADED AREAS SHALL BE 3" OF TOPSOIL, FERTILIZER, AND SEEDING PER SOIL EROSION AND SEDIMENT CONTROL PLAN. IN ADDITION, AREAS ADJACENT TO CONSTRUCTION SHALL BE GRADED TO INSURE THE PROPER CONVEYANCE OF OVERLAND STORM WATER RUNOFF AWAY FROM THE NEW TURF FIELD.
6. WHERE CURB OR SIDEWALK IS BEING REMOVED AND REPLACED TO ACCOMMODATE GRADE CHANGES, OR UNDERGROUND UTILITY WORK, OR OTHER CONSTRUCTION WORK, REMOVE AT NEAREST CONTROL JOINT. IF A CONTROL JOINT IS NOT PRESENT WITHIN 5 FEET OF THE LIMITS SHOWN GRAPHICALLY ON THE PLAN, THE CONTRACTOR SHALL SAW-CUT THE CURB, CONCRETE SIDEWALK, OR CONCRETE SLAB, AT THE LIMIT SHOWN. INSTALL EXPANSION JOINT MATERIAL AT SAW-CUT LINE. ALIGN ALL EDGES TO MEET FLUSH.
7. THE LIMITS OF GRADING, CONSTRUCTION, SAW-CUTTING, PAVEMENT AND SIDEWALK RESTORATION, ARE APPROXIMATE. IF NECESSARY, INCREASE THE DEMOLITION AND RECONSTRUCTION LIMITS BY UP TO 5 FEET IN ANY HORIZONTAL DIRECTION, AND UP TO 2 FEET IN ANY VERTICAL DIRECTION, IN ORDER TO MAINTAIN STRUCTURAL STABILITY OF THE SITE WORK AND TO AVOID CONFLICTS WITH EXISTING SITE FEATURES AND UTILITIES. NO SEPARATE PAYMENT WILL BE MADE FOR INCREASING THE CONSTRUCTION OR DEMOLITION LIMITS AS NOTED HEREIN.

**CONSTRUCTION PROCEDURES:**

1. SUBMITTALS SHALL BE PROVIDED TO THE ENGINEER AT THE BEGINNING OF THE PROJECT, DURING THE DEMOLITION STAGE OR EARLIER.
2. SUBMITTALS AND SHOP DRAWINGS FOR LONG-LEAD TIME ITEMS MUST BE SUBMITTED FIRST. THESE ITEMS TYPICALLY INCLUDE:
  - ARTIFICIAL TURF FIELD MATERIALS
  - SCOREBOARD
  - CHAIN LINK FENCING
  - DRAINAGE PIPE
3. EQUIPMENT, MATERIALS, AND PROCESSES (INCLUDING ALL LABOR) THAT ARE DEFINED IN SUBMITTALS SHALL RESULT IN A ZERO NET CHANGE TO THE CONTRACT AMOUNT (AND THE ALLOWANCE), UNLESS THE SUBMITTAL IS PART OF AN APPROVED CHANGE ORDER REQUEST.
4. IF THE CONTRACTOR OFFERS A TROUBLESHOOTING SOLUTION TO A CONSTRUCTION-RELATED PROBLEM/ISSUE, IT IS UNDERSTOOD THAT SAID SOLUTION WILL RESULT IN NO INCREASED CONSTRUCTION COST. IF THE CONTRACTOR'S RECOMMENDED SOLUTION WILL HAVE A COST IMPACT, THEN THE FULL COST OF SAID AMOUNT SHALL BE SO INDICATED WITH THE RECOMMENDATION, SO THE OWNER, ARCHITECT, AND ENGINEER MAY RENDER AN INFORMED DECISION.
5. THE CONTRACTOR SHALL NOT ASK THE OWNER TO APPROVE A DESIGN CHANGE WITHOUT PRIOR APPROVAL FROM THE ENGINEER OR ARCHITECT. THE OWNER IS NOT A DESIGN PROFESSIONAL, NOR SHALL THE OWNER BE EXPECTED TO POSSESS A WORKING KNOWLEDGE OF ALL CODES AND STANDARDS THAT APPLY TO THE WORK IN THIS CONTRACT.
6. IN THE EVENT THAT AN UNFORESEEN FIELD CONDITION ARISES, THE CONTRACTOR SHALL FOLLOW THE REQUEST FOR INFORMATION (RFI) PROCESS WHEN SEEKING ASSISTANCE FROM THE ENGINEER, ARCHITECT, OR OWNER. ALL RFIS SHALL BE FORWARDED IN WRITING TO THE ARCHITECT, WHO SHALL THEN DISTRIBUTE THE RFI TO THE APPROPRIATE PROFESSIONAL. A WRITTEN RFI RESPONSE WILL BE RETURNED TO THE CONTRACTOR. NO VERBAL INSTRUCTIONS SHALL BE CONSIDERED BINDING. THE CONTRACTOR WILL BE WORKING AT ITS OWN RISK, IF THE CONSTRUCTION WORK DEVIATES FROM THE DESIGN INTENT WITHOUT PRIOR WRITTEN APPROVAL.
7. THE CONTRACTOR SHALL SECURE ALL REQUIRED CONSTRUCTION PERMITS AND SCHEDULE INSPECTIONS AT THE TIMES REQUIRED BY THE LOCAL BUILDING DEPARTMENT.
8. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION WITH APPROPRIATE UTILITY COMPANIES AND THE OWNER.



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NEW ARTIFICIAL TURF FIELD & SPORTS LIGHTING  
AT  
RANCOCAS VALLEY REGIONAL HIGH SCHOOL  
RECREATION COMPLEX  
BLOCK 1300, LOTS 70.01 & 71, EASTAMPTON TOWNSHIP  
BURLINGTON COUNTY, NEW JERSEY

## EDWARDS

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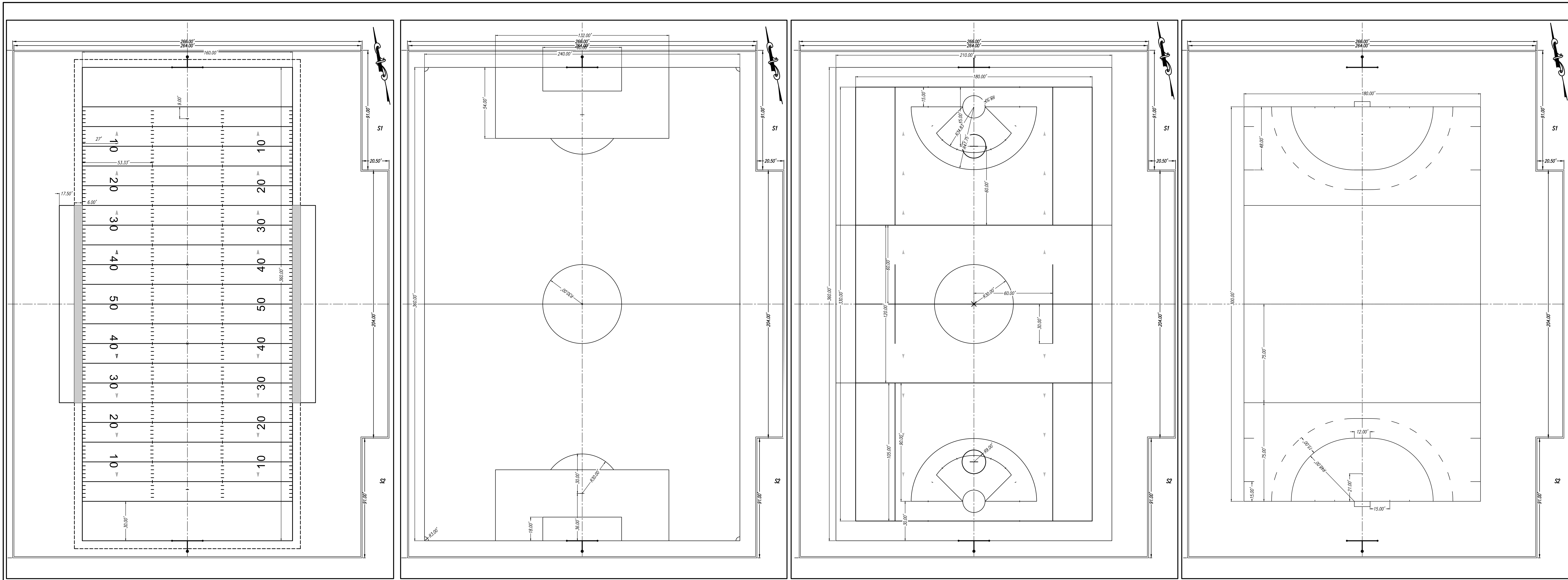
SITE PLAN

SOUTH

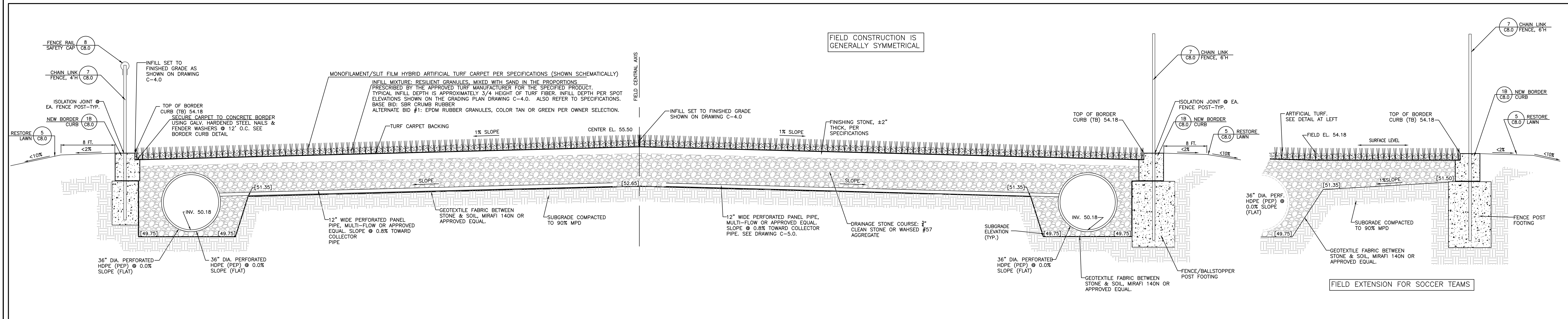
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Professional Engineer

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FOOTBALL SCALE: 1" = 30' SOCCER PITCH SCALE: 1" = 30' BOY'S & GIRL'S LACROSSE SCALE: 1" = 30' FIELD HOCKEY SCALE: 1" = 30'



- ARTIFICIAL TURF NOTES:**
- THIS PROJECT INCLUDES THE CONVERSION OF A NATURAL GRASS FIELD TO SYNTHETIC TURF FIELD.
  - TURF CARPET FIBERS SHALL BE HYBRID (MONOFILAMENT/SPLIT FILM COMBINATION) IN FILL MIX:  
 BASE BID: SBR CRUMB RUBBER & SILICA SAND  
 ALTERNATE BID #1: EPDM RUBBER GRANULES & SILICA SAND
  - REFER TO PROJECT SPECIFICATIONS FOR THE HYBRID (COMBINATION MONOFILAMENT & SPLIT FILM) TURF MATERIAL AND INFILL PROPERTIES THAT ARE REQUIRED IN THIS PROJECT.
  - SUBMITTALS SHALL BE PROVIDED TO THE ENGINEER AT THE BEGINNING OF THE PROJECT, DURING THE DEMOLITION STAGE OR EARLIER.
  - ALL TURF LINE WORK AND SPORTS FIELD MARKINGS SHALL CONFORM WITH THE NATIONAL FEDERATION OF STATE HIGH SCHOOL ASSOCIATIONS (NFHS), COURT AND FIELD DIAGRAM GUIDE, LATEST EDITION, FOR THE SPORTS LISTED IN NOTE #5. ALL LINE WORK & MARKINGS REQUIRED OF EACH SPORT MUST BE PROVIDED.
  - PROVIDE A SUBMITTAL CONTAINING TRUE COLOR SHOP DRAWINGS WITH ALL LOGOS, TURF COLORS AND LINE WORK SHOWN FOR EACH SPORT, FOR THE OWNER'S APPROVAL.  
 NORTH AMERICAN FOOTBALL (WHITE)  
 SOCCER (YELLOW)  
 BOYS LACROSSE (BLUE)  
 GIRLS LACROSSE (RED)  
 FIELD HOCKEY (ORANGE)
  - COLOR SELECTION SHALL BE FROM THE MANUFACTURER'S FULL LINE OF AVAILABLE COLORS (INCLUDED IN CONTRACT PRICE).
  - SEE DRAWING C-1.0 FOR BENCHMARKS AND CONTROL POINTS.
  - MINIMUM REQUIRED PLAYING FIELD DIMENSIONS ARE SHOWN ON THE PLANS ABOVE. COORDINATE ALL FIELD MARKINGS AND FIELD SIZES WITH THE OWNER. THE OWNER RESERVES THE RIGHT TO SELECT ANY SIZE FIELD WITH COMPLETE FIELD LINE WORK AND MARKINGS, AT NO ADDITIONAL COST.

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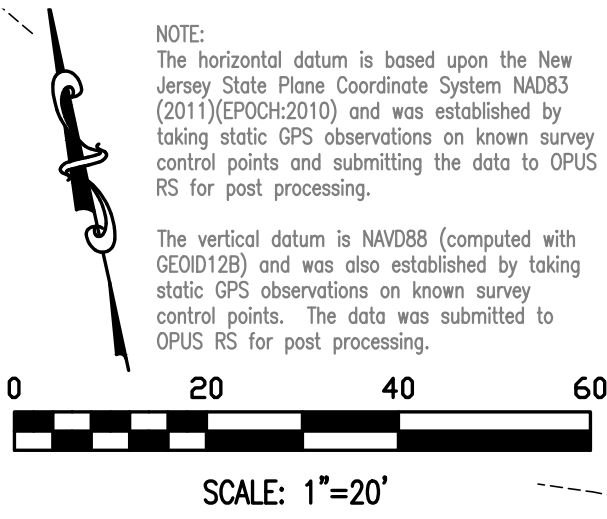
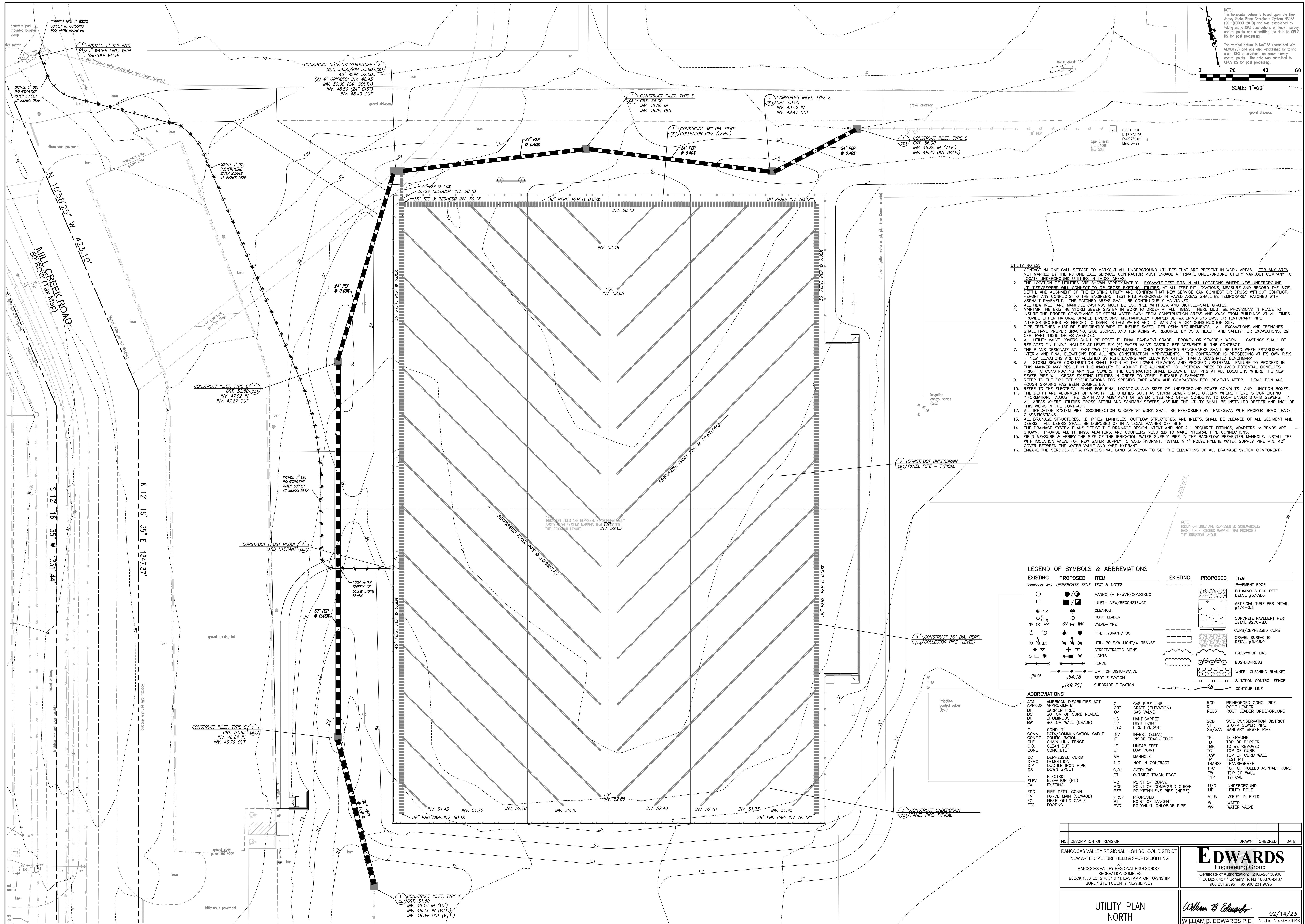
WILLIAM B. EDWARDS  
 Professional Engineer

02/14/23

NJ Lic. No. GE 36148

1 SYNTHETIC TURF FIELD  
 NOT TO SCALE





- UTILITY NOTES:**
- CONTACT NJ ONE CALL SERVICE TO MARKOUT ALL UNDERGROUND UTILITIES THAT ARE PRESENT IN WORK AREAS. FOR ANY AREA NOT MARKED BY THE NJ ONE CALL SERVICE, CONTRACTOR MUST ENGAGE A PRIVATE UNDERGROUND UTILITY MARKOUT COMPANY TO LOCATE UNDERGROUND UTILITIES IN THOSE AREAS.
  - THE LOCATION OF UTILITIES ARE SHOWN APPROXIMATELY. EXCAVATE TEST PITS IN ALL LOCATIONS WHERE NEW UNDERGROUND UTILITIES/SEWERS WILL CONNECT TO OR CROSS EXISTING UTILITIES. AT ALL TEST PIT LOCATIONS, MEASURE AND RECORD THE SIZE, DEPTH, AND ALIGNMENT OF THE EXISTING UTILITY AND CONFIRM THAT NEW SERVICE CAN CONNECT OR CROSS WITHOUT CONFLICT. REPORT ANY CONFLICTS TO THE ENGINEER. TEST PITS PERFORMED IN PAVED AREAS SHALL BE TEMPORARILY PATCHED WITH ASPHALT PAVEMENT. THE PATCHED AREAS SHALL BE CONTINUOUSLY MAINTAINED.
  - ALL NEW INLET AND MANHOLE CASTINGS MUST BE EQUIPPED WITH ADA AND BICYCLE-SAFE GRATES.
  - MAINTAIN THE EXISTING STORM SEWER SYSTEM IN WORKING ORDER AT ALL TIMES. THERE MUST BE PROVISIONS IN PLACE TO INSURE THE PROPER CONVEYANCE OF STORM WATER AWAY FROM CONSTRUCTION AREAS AND AWAY FROM BUILDINGS AT ALL TIMES. PROVIDE EITHER NATURAL GRADED DIVERSIONS, MECHANICALLY PUMPED DE-WATERING SYSTEMS, OR TEMPORARY PIPE INTERCONNECTIONS AS NEEDED TO DIVERT STORM WATER AND TO MAINTAIN A DRY CONSTRUCTION SITE.
  - PIPE TRENCHES MUST BE SUFFICIENTLY WIDE TO INSURE SAFETY PER OSHA REQUIREMENTS. ALL EXCAVATIONS AND TRENCHES SHALL HAVE PROPER BRACING, SHIELDING, AND TERRACING AS REQUIRED BY OSHA HEALTH AND SAFETY FOR EXCAVATIONS, 29 CFR, PART 1926, OR AS AMENDED.
  - ALL UTILITY VALVE COVERS SHALL BE RESET TO FINAL PAVEMENT GRADE. BROKEN OR SEVERELY WORN CASTINGS SHALL BE REPLACED "IN KIND," INCLUDE AT LEAST SIX (6) WATER VALVE CASTING REPLACEMENTS IN THE CONTRACT.
  - THE PLANS DESIGNATE AT LEAST TWO (2) BENCHMARKS. ONLY DESIGNATED BENCHMARKS SHALL BE USED WHEN ESTABLISHING INTERIM AND FINAL ELEVATIONS FOR ALL NEW CONSTRUCTION IMPROVEMENTS. THE CONTRACTOR IS PROCEEDING AT ITS OWN RISK IF NEW ELEVATIONS ARE ESTABLISHED BY REFERENCING ANY ELEVATION OTHER THAN A DESIGNATED BENCHMARK.
  - ALL STORM SEWER CONSTRUCTION SHALL BEGIN AT THE LOWER ELEVATION AND PROCEED UPSTREAM. FAILURE TO PROCEED IN THIS MANNER MAY RESULT IN THE INABILITY TO ADJUST THE ALIGNMENT OR UPSTREAM PIPES TO AVOID POTENTIAL CONFLICTS. PRIOR TO CONSTRUCTING ANY NEW SEWERS, THE CONTRACTOR SHALL EXCAVATE TEST PITS AT ALL LOCATIONS WHERE THE NEW SEWER PIPE WILL CROSS EXISTING UTILITIES IN ORDER TO VERIFY SUITABLE CLEARANCES.
  - REFER TO THE PROJECT SPECIFICATIONS FOR SPECIFIC EARTHWORK AND COMPACTION REQUIREMENTS AFTER DEMOLITION AND ROUGH GRADING HAS BEEN COMPLETED.
  - REFER TO THE ELECTRICAL PLANS FOR FINAL LOCATIONS AND SIZES OF UNDERGROUND POWER CONDUITS AND JUNCTION BOXES. THE DEPTH AND ALIGNMENT OF GRAVITY FED UTILITIES SUCH AS STORM SEWER SHALL GOVERN WHERE THERE IS CONFLICTING INFORMATION. ADJUST THE DEPTH AND ALIGNMENT OF WATER LINES AND OTHER CONDUITS, TO LOOP UNDER STORM SEWERS. IN ALL AREAS WHERE UTILITIES CROSS STORM AND SANITARY SEWERS, ASSUME THE UTILITY SHALL BE INSTALLED DEEPER AND INCLUDE THIS WORK IN THE CONTRACT.
  - ALL IRRIGATION SYSTEM PIPE DISCONNECTION & CAPPING WORK SHALL BE PERFORMED BY TRADESMAN WITH PROPER DPMFC TRADE CLASSIFICATIONS.
  - ALL DRAINAGE STRUCTURES, I.E. PIPES, MANHOLES, OUTFLOW STRUCTURES, AND INLETS, SHALL BE CLEANED OF ALL SEDIMENT AND DEBRIS. ALL DEBRIS SHALL BE DISPOSED OF IN A LEGAL MANNER OFF SITE.
  - THE DRAINAGE SYSTEM PLANS DEPICT THE DRAINAGE DESIGN INTENT AND NOT ALL REQUIRED FITTINGS, ADAPTERS & BENDS ARE SHOWN. PROVIDE ALL FITTINGS, ADAPTERS, AND COUPLERS REQUIRED TO MAKE INTEGRAL PIPE CONNECTIONS.
  - FIELD MEASURE & VERIFY THE SIZE OF THE IRRIGATION WATER SUPPLY PIPE IN THE BACKFLOW PREVENTER MANHOLE. INSTALL TEE WITH ISOLATION VALVE FOR NEW WATER SUPPLY TO YARD HYDRANT. INSTALL A 1" POLYETHYLENE WATER SUPPLY PIPE MIN. 42" COVER BETWEEN THE WATER VAULT AND YARD HYDRANT.
  - ENGAGE THE SERVICES OF A PROFESSIONAL LAND SURVEYOR TO SET THE ELEVATIONS OF ALL DRAINAGE SYSTEM COMPONENTS

**LEGEND OF SYMBOLS & ABBREVIATIONS**

EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM
lowercase text	UPPERCASE TEXT	TEXT & NOTES			PAVEMENT CONCRETE
					ARTIFICIAL TURF PER DETAIL #17C-3.2
					CURB/DEPRESSED CURB
					TREE/WOOD LINE
					WHEEL CLEANING BLANKET
					CONTOUR LINE

**ABBREVIATIONS**

ADA	AMERICAN DISABILITIES ACT	G	GAS PIPE LINE	RCP	REINFORCED CONC. PIPE
APPROX	APPROXIMATE	GRT	GRATE (ELEVATION)	RL	ROOF LEADER
BF	BARRIER	GV	GAS VALVE	RUG	ROOF LEADER UNDERGROUND
BC	BOTTOM OF CURB REVEAL	HC	HANDICAPPED	SCD	SOIL CONSERVATION DISTRICT
BT	BITUMINOUS	HP	HIGH POINT	ST	STORM SEWER PIPE
BW	BOTTOM WALL (GRADE)	HYD	FIRE HYDRANT	SS/SAN	SANITARY SEWER PIPE
C	CONDUIT	INV	INVERT (ELEV.)	TEL	TELEPHONE
COMM	COMMUNICATION CABLE	IT	INSIDE TRACK EDGE	TBR	TO BE REMOVED
CONFIG	CONFIGURATION	LF	LINEAR FEET	TC	TOP OF CURB
CLF	CHAIN LINK FENCE	LP	LOW POINT	TCW	TOP OF CURB WALL
C.O.	CLEAN OUT	MH	MANHOLE	TRF	TEST PIT
CONC	CONCRETE	NI	NOT IN CONTRACT	TRC	TOP OF ROLLED ASPHALT CURB
DC	DEPRESSED CURB	O/H	OVERHEAD	TW	TOP OF WALL
DEMO	DEMOLITION	OT	OUTSIDE TRACK EDGE	TYP	TYPICAL
DIP	DUCTILE IRON PIPE	PC	POINT OF CURVE	U/O	UNDERGROUND
DS	DOWN SPOT	PCC	POINT OF COMPOUND CURVE	UP	UTILITY POLE
E	ELECTRIC	PEP	POLYETHYLENE PIPE (HDPE)	V.I.F.	VERIFY IN FIELD
ELEV	ELEVATION (FT.)	PROP	PROPOSED	W	WATER VALVE
EX	EXISTING	PVC	POLYVINYL CHLORIDE PIPE		
FDC	FIRE DEPT. CONN.				
FM	FORCE MAIN (SEWAGE)				
FO	FIBER OPTIC CABLE				
FTG.	FOOTING				

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RANOCAS VALLEY REGIONAL HIGH SCHOOL DISTRICT  
NEW ARTIFICIAL TURF FIELD & SPORTS LIGHTING  
AT  
RANOCAS VALLEY REGIONAL HIGH SCHOOL  
RECREATION COMPLEX  
BLOCK 1300, LOTS 70.01 & 71, EASTAMPTON TOWNSHIP  
BURLINGTON COUNTY, NEW JERSEY

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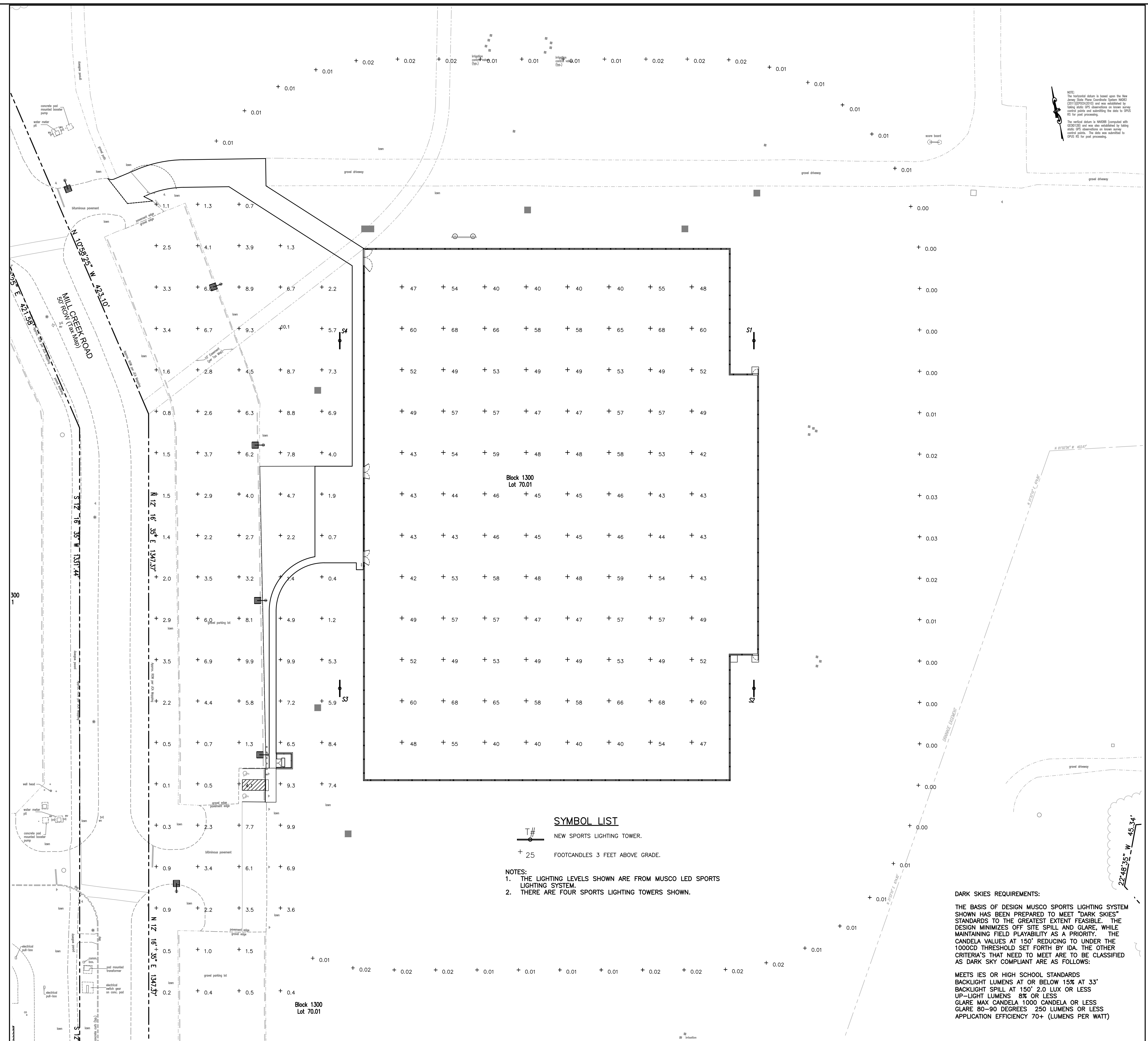
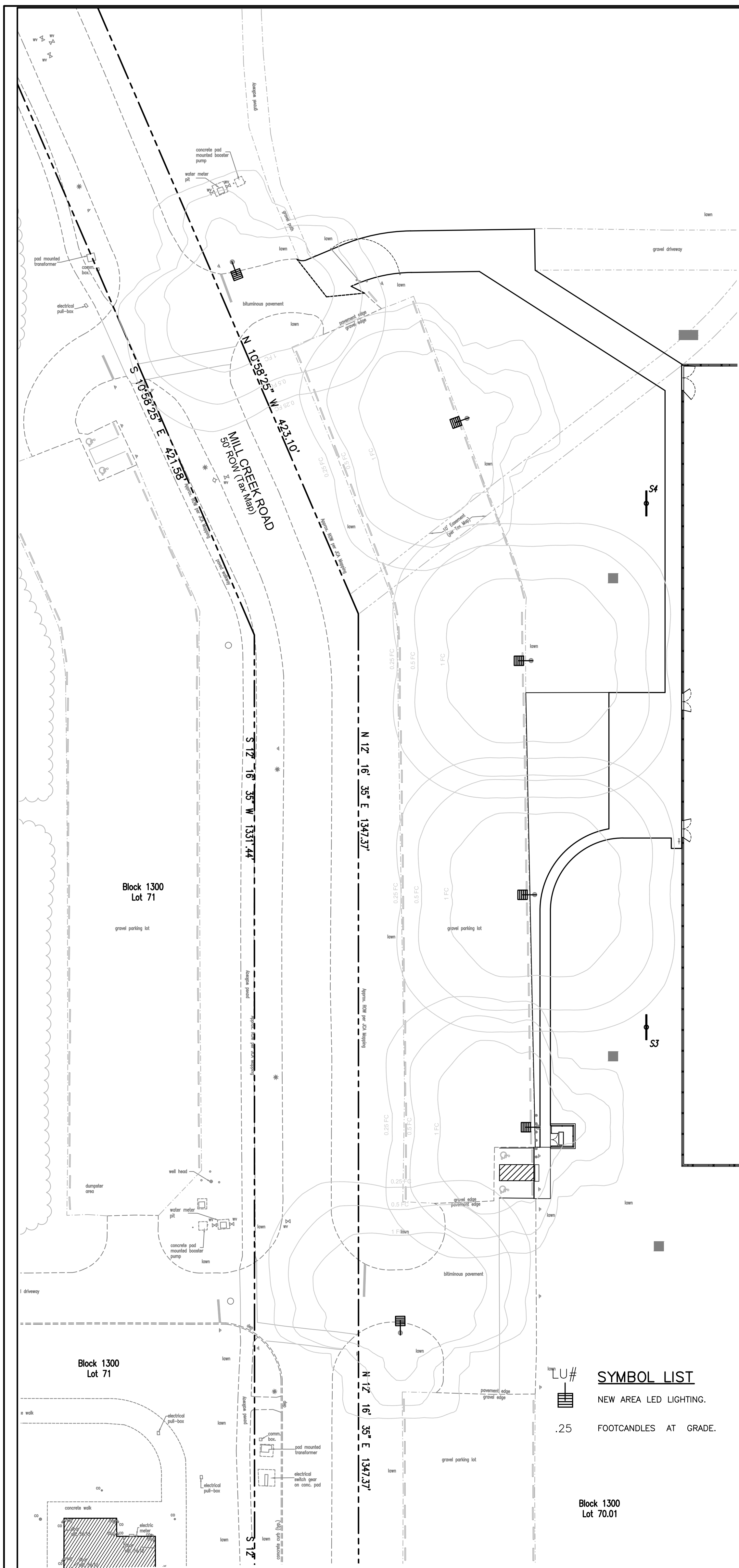
WILLIAM B. EDWARDS P.E.  
Professional Engineer

02/14/23

N.J. Lic. No. GE 36148

FOR CONTINUATION SEE UTILITY PLAN - SOUTH

SEE DRAWING C-5.1 FOR UTILITY NOTES



PARKING LOT LIGHTING LEVELS

SCALE: 1" = 30'

SPORTS FIELD LIGHTING LEVELS

SCALE: 1" = 30'

PARKING LOT LIGHTING:

1. THE LIGHTING SYSTEM WILL BE CONTROLLED BY SPARE CONTACTORS IN THE SPORTS LIGHTING CONTROLLER. THE PARKING LOT LIGHTING CAN BE OPERATED INDEPENDENTLY FROM THE SPORTS LIGHTING.
2. THE POWER SUPPLY FOR THE SPORTS LIGHTING SYSTEM CONTROLLER AND THE NEW LED PARKING LOT LIGHTING WILL BE ON A UPS BACKUP SYSTEM. IN THE EVENT OF A POWER OUTAGE THE SPORTS LIGHTING WILL SHUT DOWN, HOWEVER, THE PARKING LOT LIGHTING WILL REMAIN ON FOR UP TO 30 MINUTES. THIS SHOULD ALLOW FOR A SAFE AND ORDERLY EVACUATION FROM THE SITE.
3. THE LUMINAIRES IN THE PARKING LOT WILL BE EFFICIENT LED UNITS, WITH A COLOR TEMPERATURE OF 3000K FOR SOFTER LIGHTING.

- NOTES:
1. THE LIGHTING LEVELS SHOWN ARE FROM MUSCO LED SPORTS LIGHTING SYSTEM.
  2. THERE ARE FOUR SPORTS LIGHTING TOWERS SHOWN.

**DARK SKIES REQUIREMENTS:**

THE BASIS OF DESIGN MUSCO SPORTS LIGHTING SYSTEM HAS BEEN PREPARED TO MEET "DARK SKIES" STANDARDS TO THE GREATEST EXTENT FEASIBLE. THE DESIGN MINIMIZES OFF SITE SPILL AND GLARE, WHILE MAINTAINING FIELD PLAYABILITY AS A PRIORITY. THE CANDELA VALUES AT 150' REDUCING TO UNDER THE 1000CD THRESHOLD SET FORTH BY IDA. THE OTHER CRITERIA THAT NEED TO MEET ARE TO BE CLASSIFIED AS DARK SKY COMPLIANT ARE AS FOLLOWS:

MEETS IES OR HIGH SCHOOL STANDARDS  
 BACKLIGHT LUMENS AT OR BELOW 15% AT 33'  
 BACKLIGHT SPILL AT 150' 2.0 LUX OR LESS  
 UP-LIGHT LUMENS 8% OR LESS  
 GLARE MAX CANDELA 1000 CANDELA OR LESS  
 GLARE 80-90 DEGREES 250 LUMENS OR LESS  
 APPLICATION EFFICIENCY 70+ (LUMENS PER WATT)

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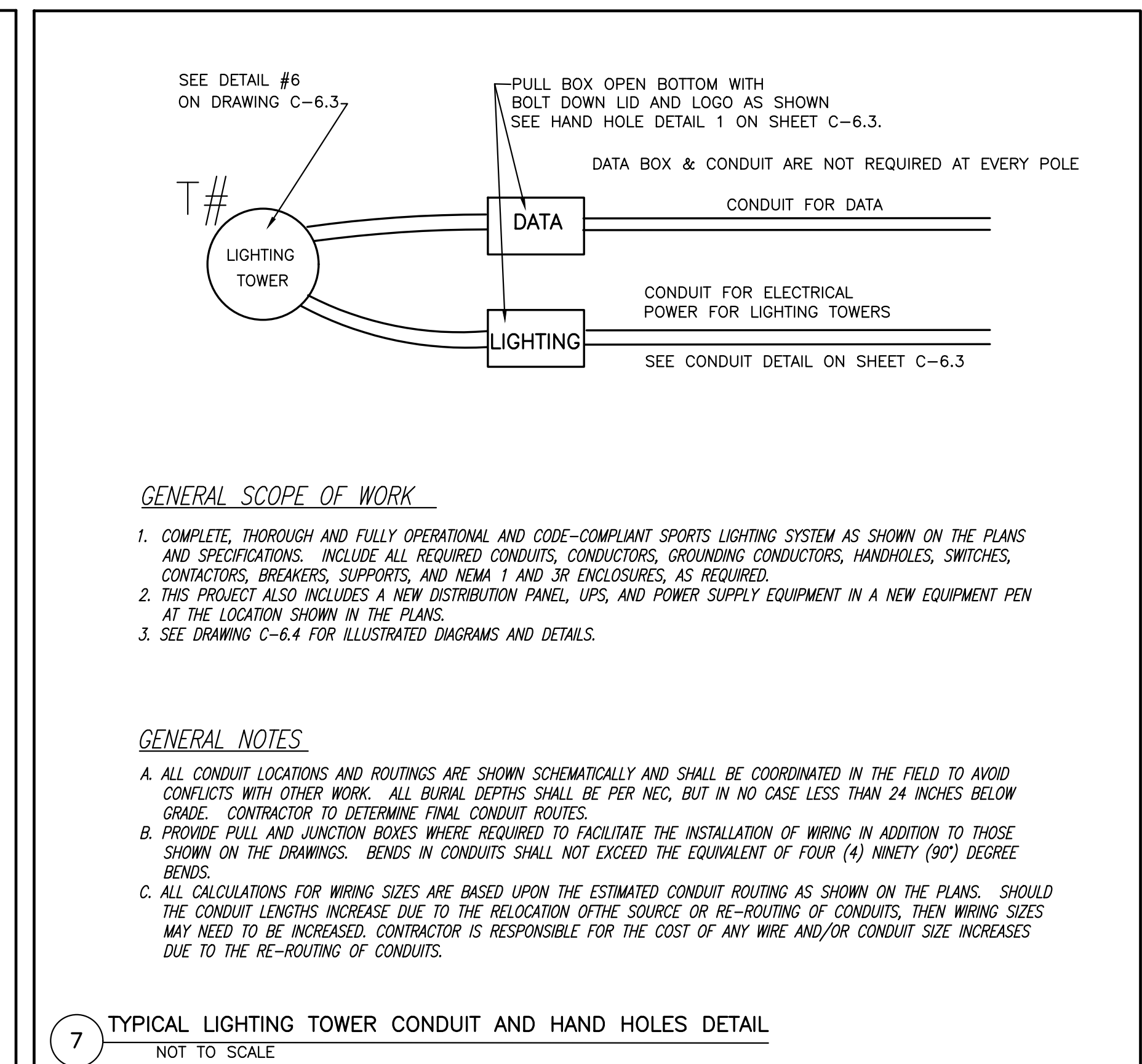
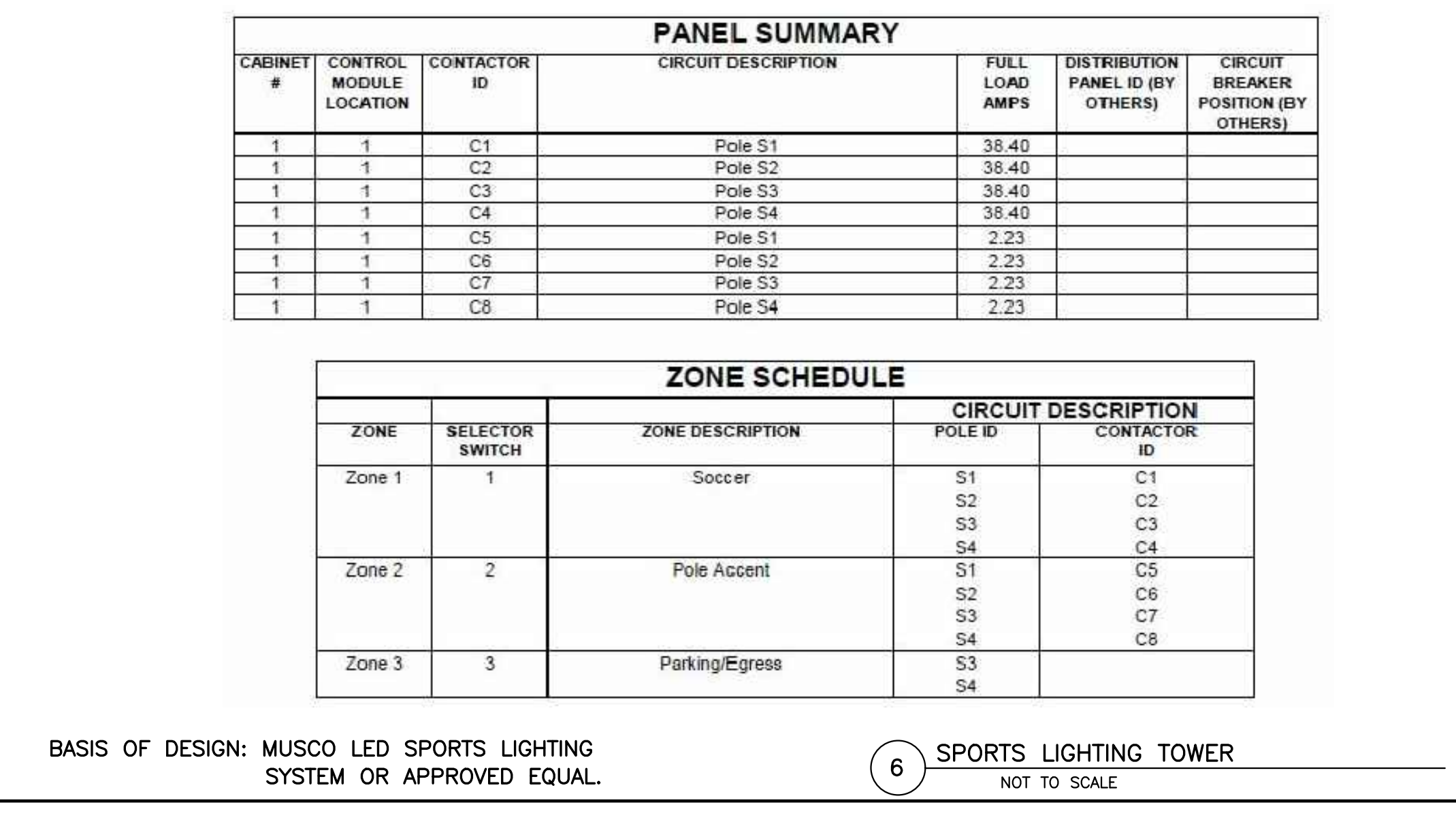
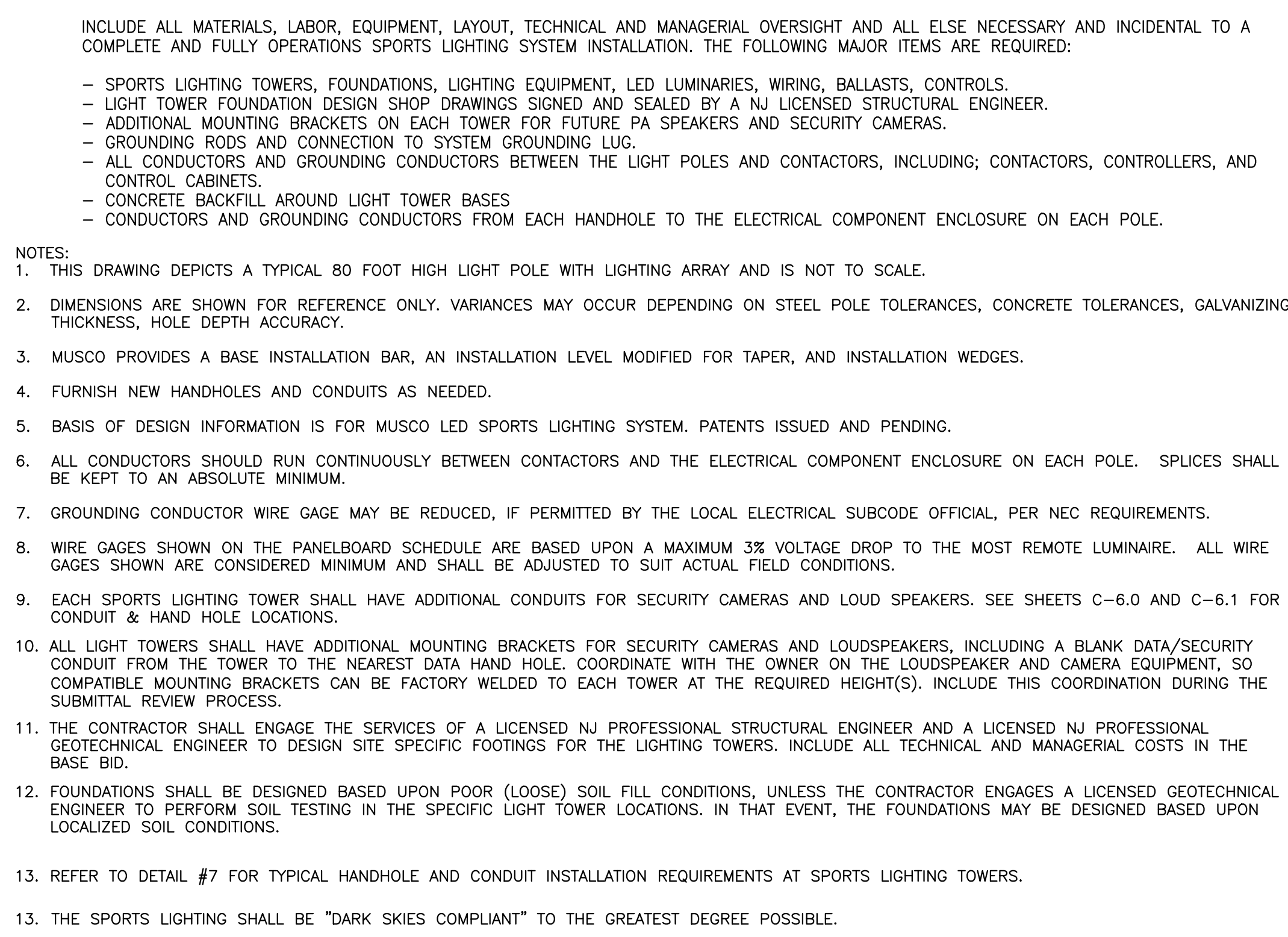
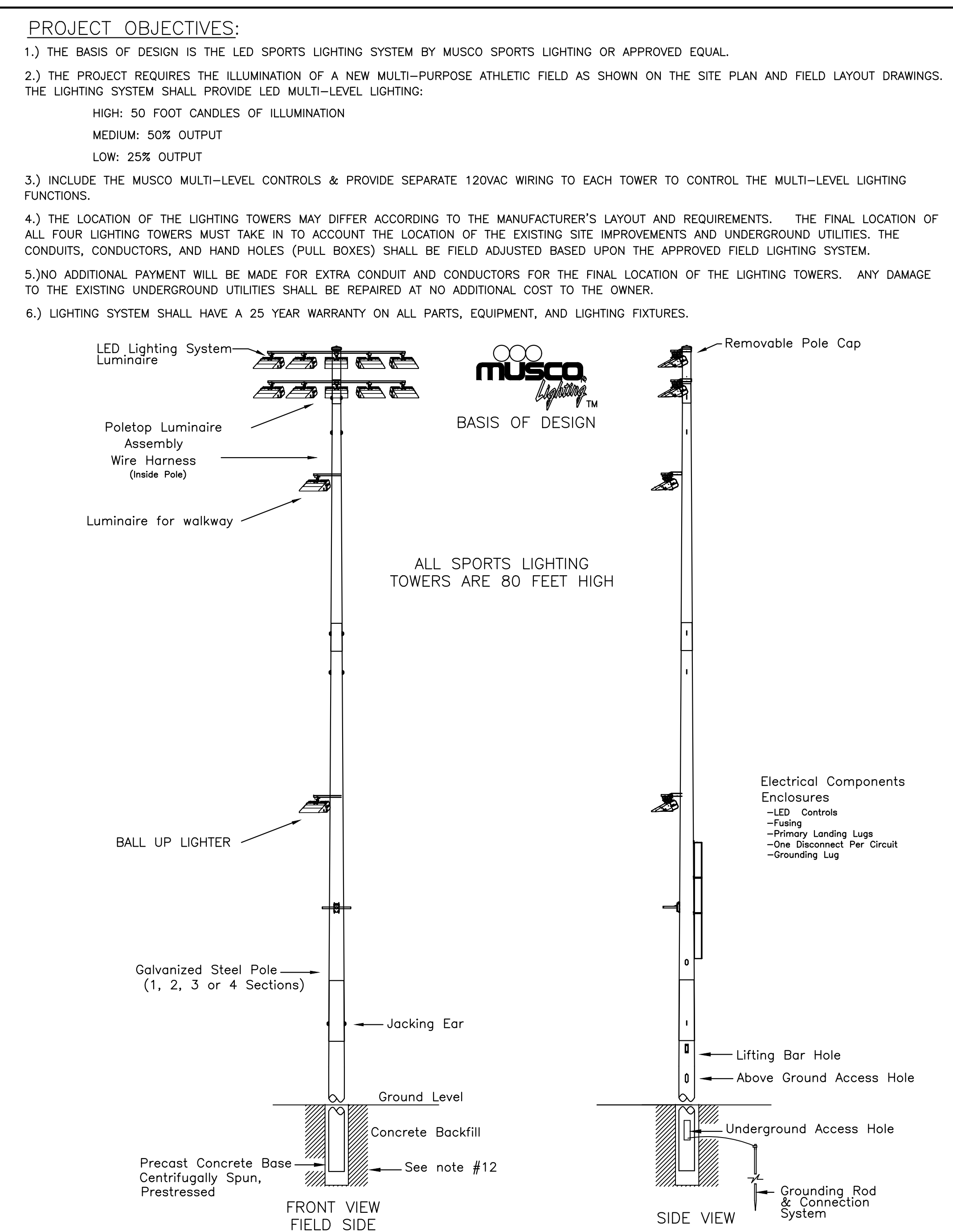
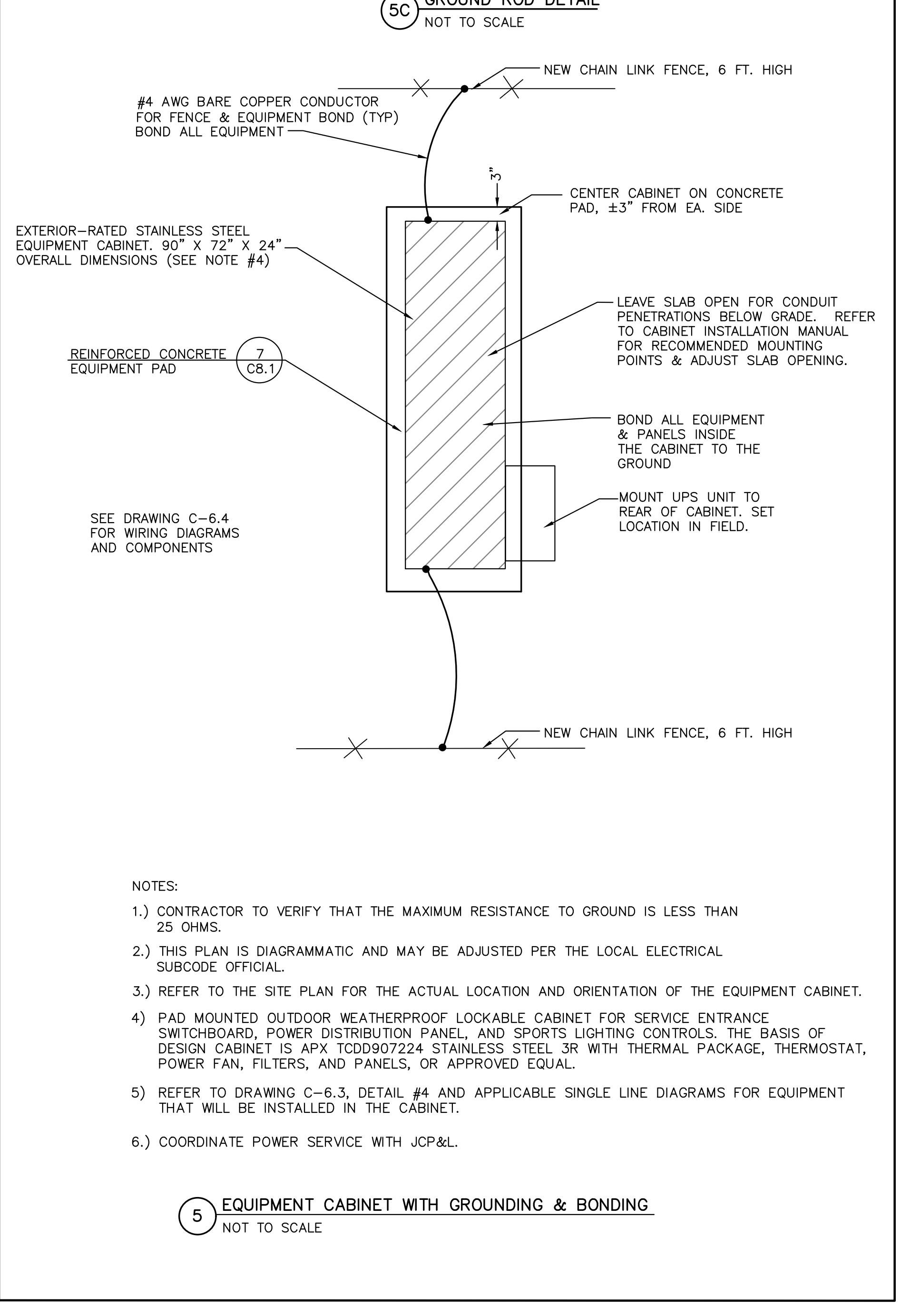
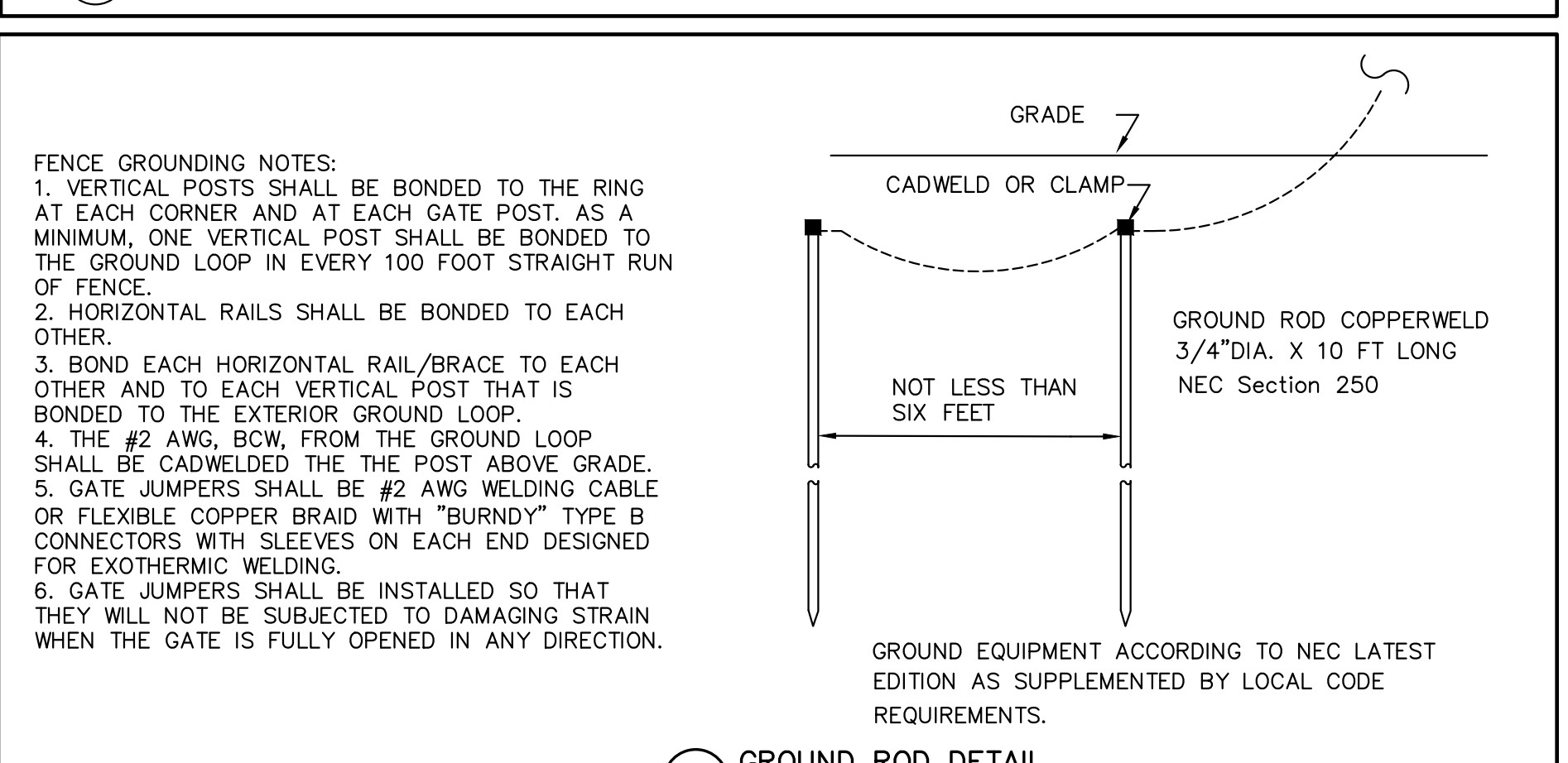
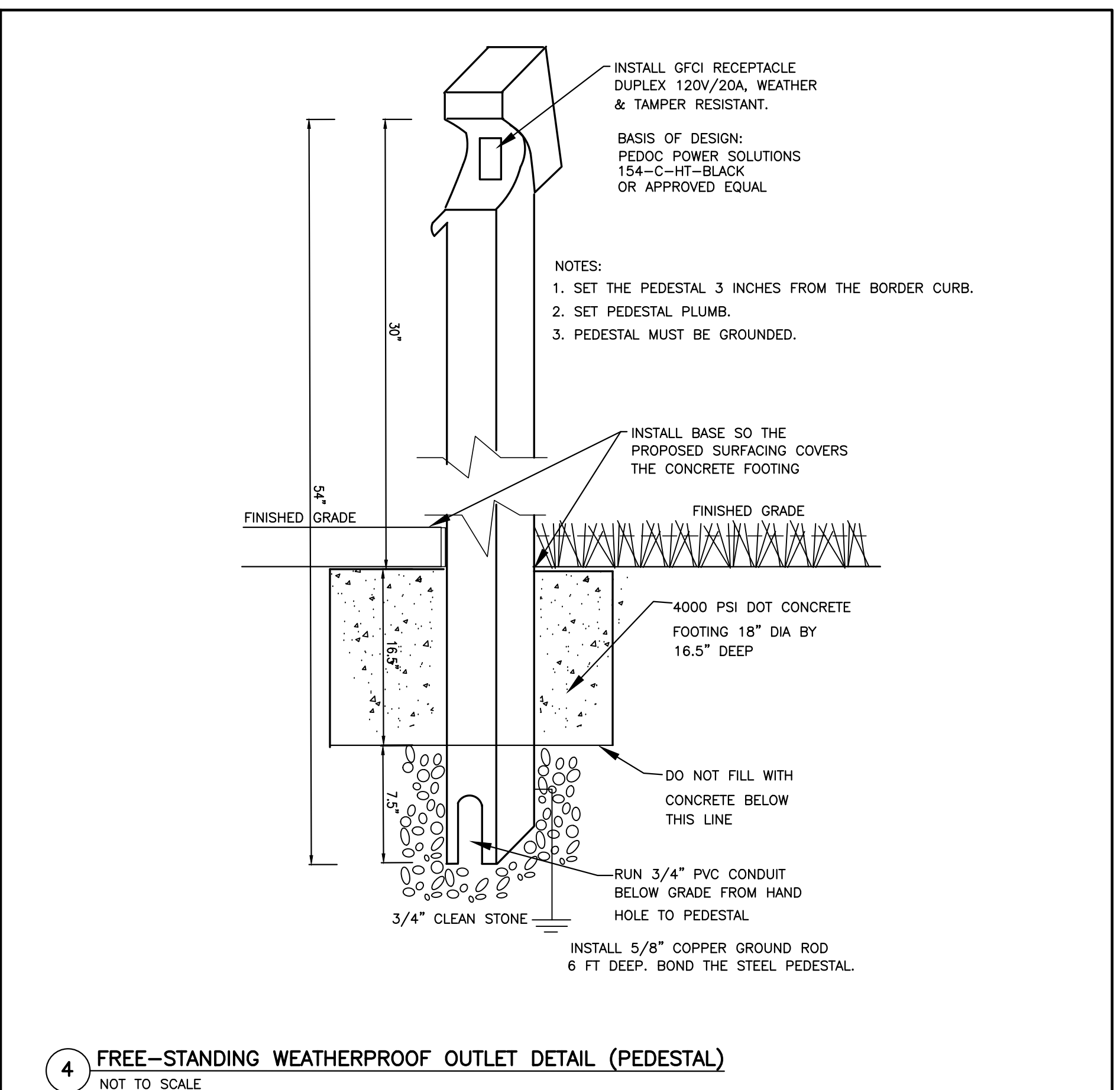
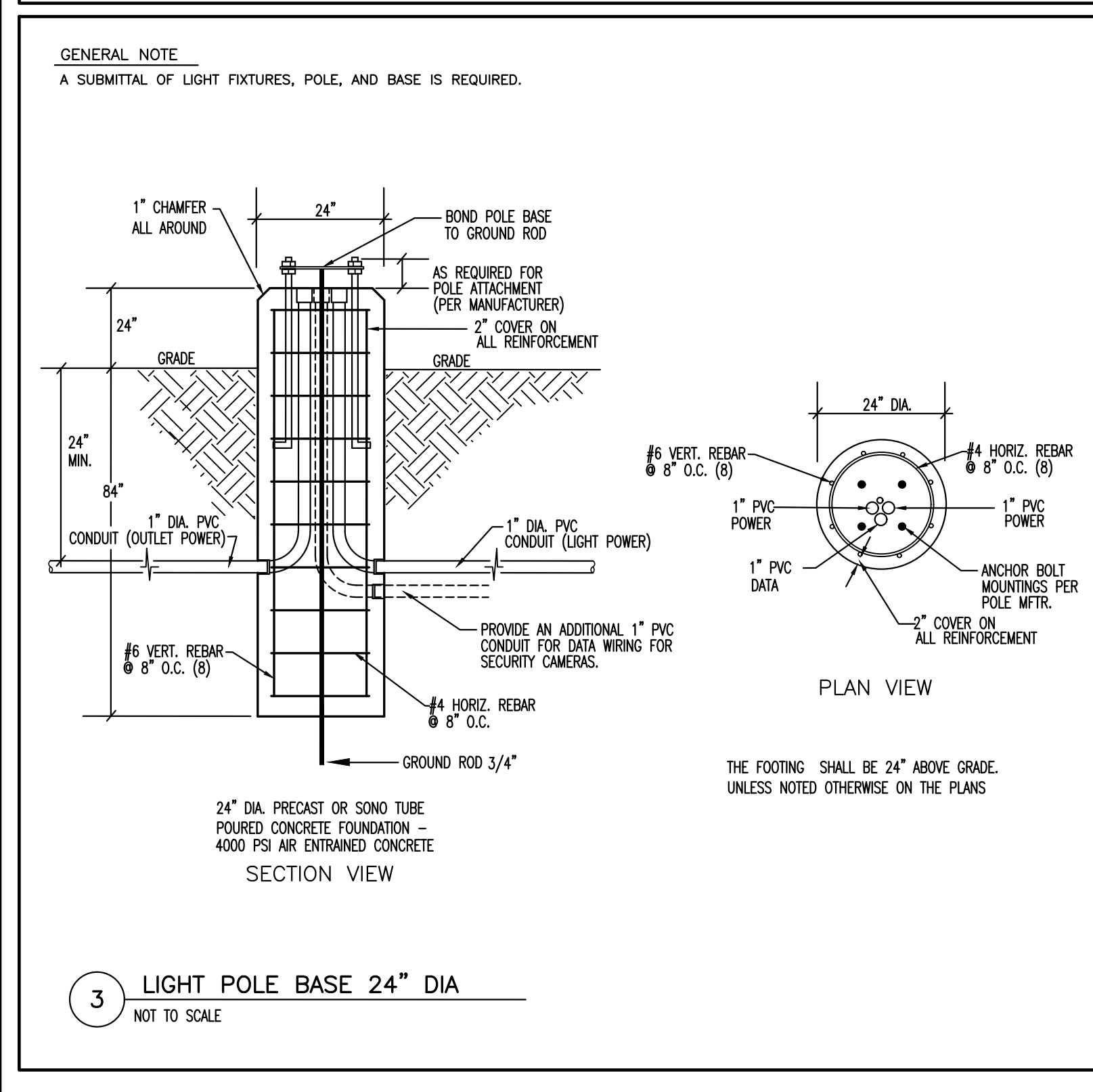
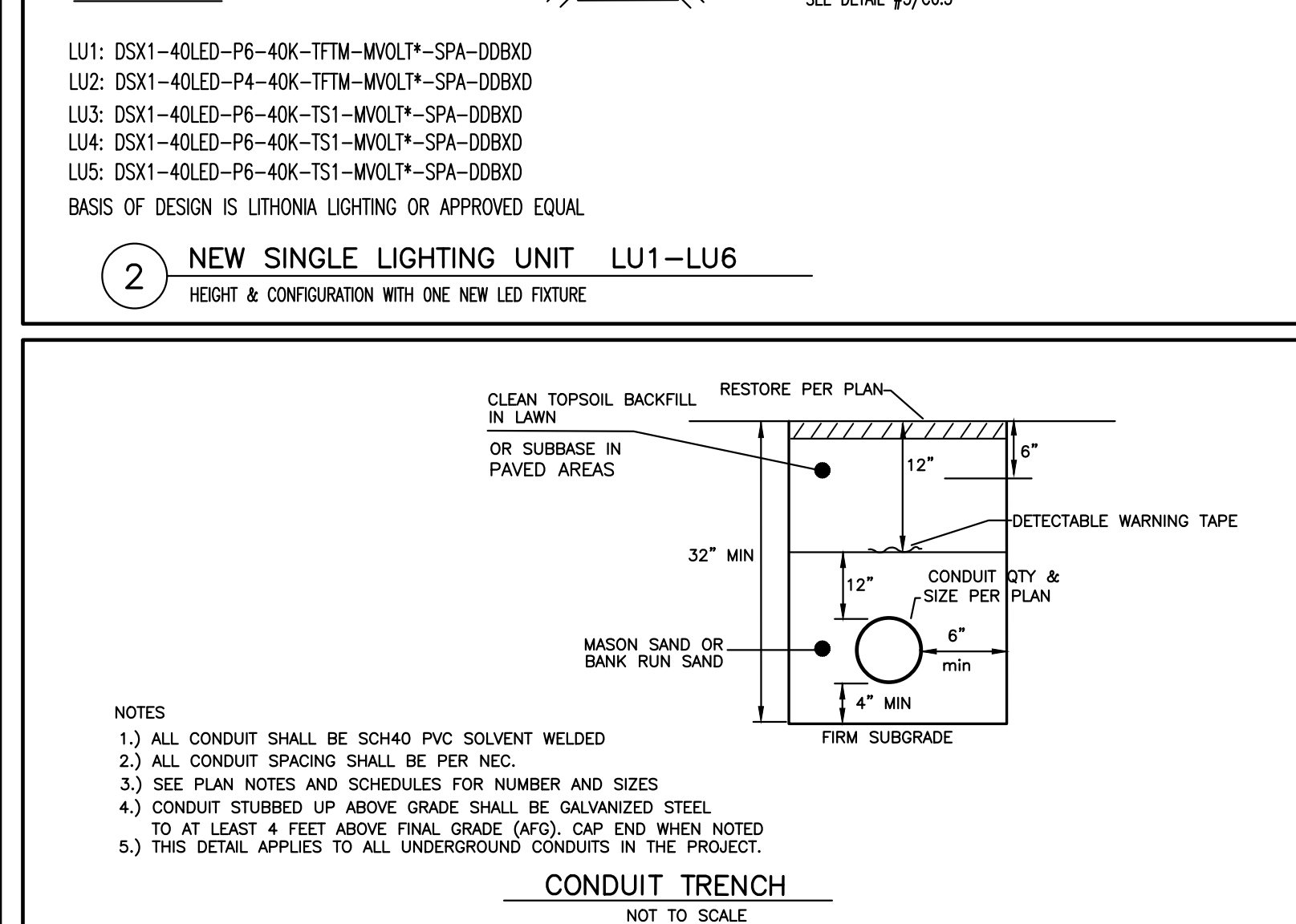
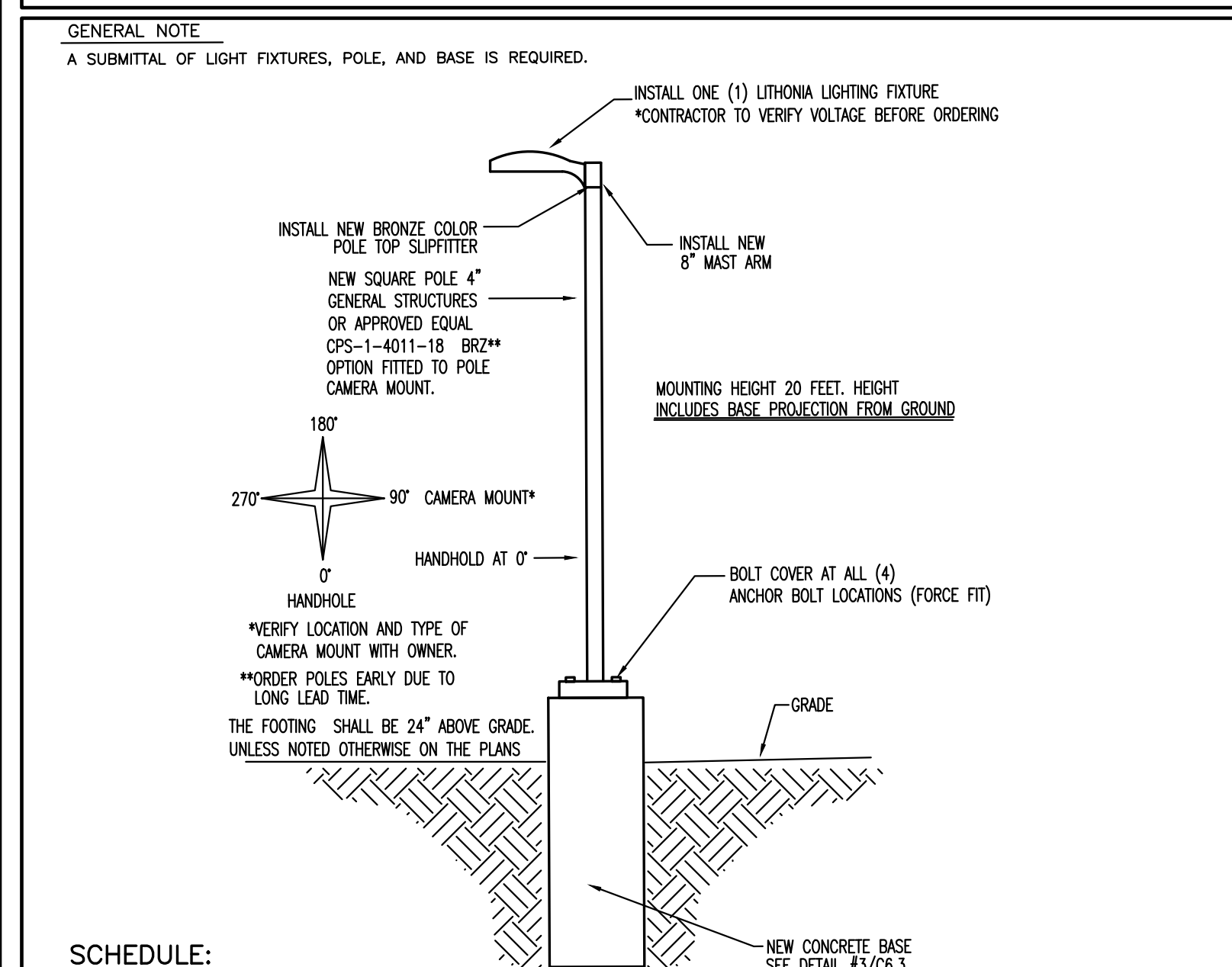
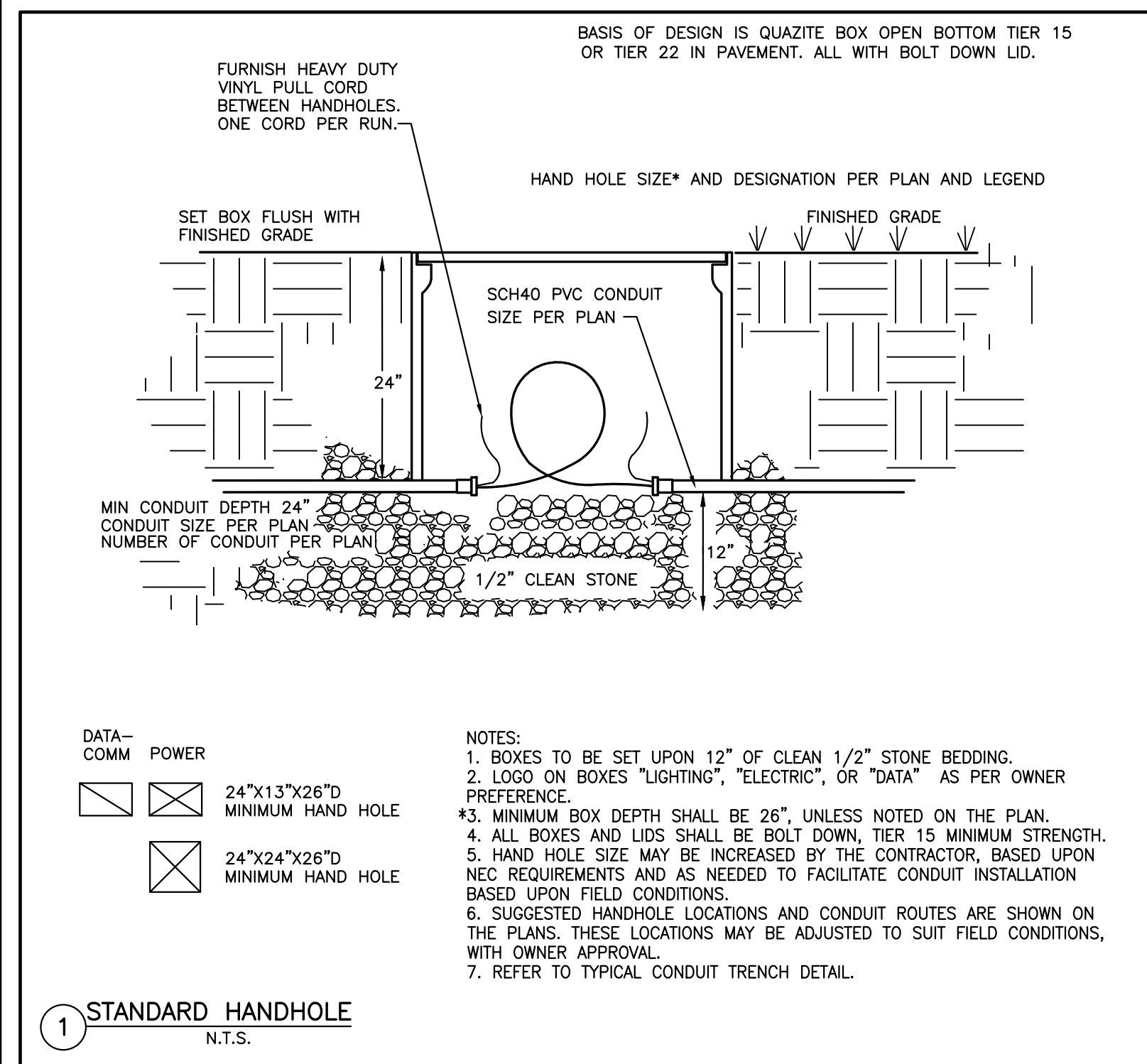
RANCOCAS VALLEY REGIONAL HIGH SCHOOL DISTRICT  
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**LIGHTING LEVEL PLAN**

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 WILLIAM B. EDWARDS P.E. NJ Lic. No. GE 36148  
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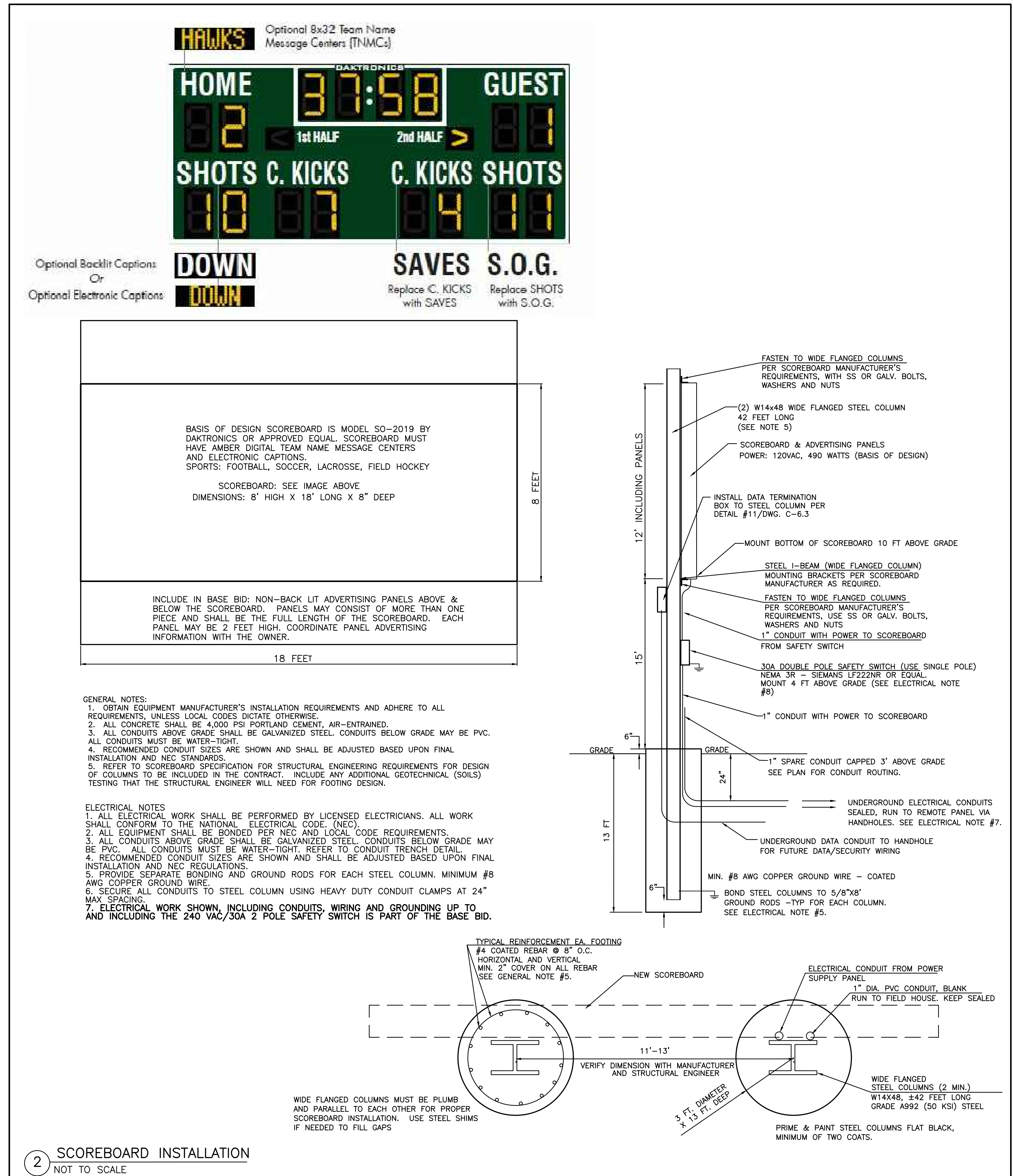
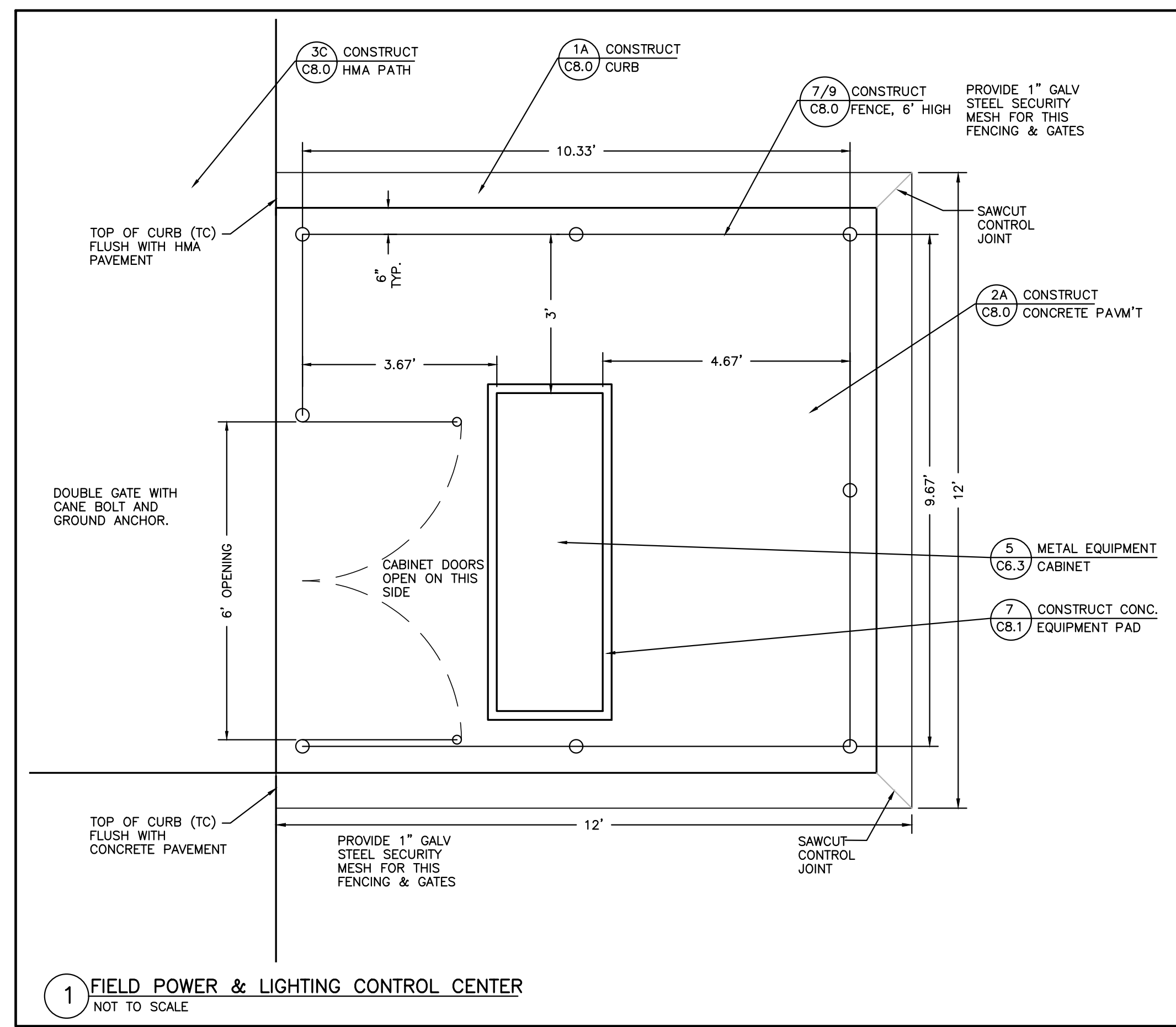
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BLOCK 1300, LOTS 70.01 & 71, EASTAMPTON TOWNSHIP  
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**ELECTRICAL DETAILS**

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**ELECTRICAL DETAILS**

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