

DEPARTMENT OF PUBLIC WORKS NASSAU COUNTY, NEW YORK



PLANS FOR POLARIS BALLFIELDS ALONG POLARIS DRIVE REHABILITATION OF EXISTING FIELDS WITHIN VICINITY OF LEVITTOWN NEW YORK



KEY MAP
SCALE: 1" = 2,000'

50% PROGRESS PRINT

PREPARED BY:

RUSSELL Z. SCOTT P.E., SENIOR PARTNER, NELSON + POPE

APPROVED BY :

KENNETH G. ARNOLD, P.E.
COMMISSIONER OF PUBLIC WORKS

DATE

CONSTRUCTION COMPLETED: _____ DATE

CONSTRUCTION ENGINEER _____

PREPARED BY:
 **NELSON + POPE**
engineers • architects • surveyors
70 Maxess Road, Melville, NY 11747 • 631.427.5665 • nelsonpope.com

GENERAL NOTES

- THESE DRAWINGS ARE BASED ON A SURVEY DATED 8-5-2022, PREPARED BY: TERRY BERGENDORFF COLLINS, 52 STARR RIDGE ROAD, BREWSTER, NEW YORK 10509. HORIZONTAL CONTROLS SHOWN ON THE PLANS ARE IN THE NYS COORDINATE SYSTEM - LONG ISLAND ZONE (nad83). VERTICAL CONTROLS SHOWN ON THE PLANS ARE IN NAVD 88 DATUM.
- ALL LAYOUT AND ESTABLISHMENT OF GRADES SHALL BE DONE BY A NYS LICENSED LAND SURVEYOR. LAYOUT OF ALL WORK SHALL BE ADJUSTED IN THE FIELD AS NECESSARY TO MEET SITE CONDITIONS FOR REVIEW AND ACCEPTANCE BY OWNER/OWNERS REPRESENTATIVE.
- LAYOUT ALL PROPOSED WORK FOR OWNER/OWNERS REPRESENTATIVE REVIEW PRIOR TO THE START OF CONSTRUCTION. ANY INSTALLATION OF WORK PERFORMED PRIOR TO OWNER/OWNERS REPRESENTATIVE REVIEW THAT DOES NOT CONFORM TO THESE CONTRACT DOCUMENTS AS INTERPRETED BY OWNER/OWNERS REPRESENTATIVE SHALL BE REMOVED AND REPLACED AS PER OWNERS/OWNERS REPRESENTATIVE'S INSTRUCTIONS AT NO ADDITIONAL COST TO THE OWNER.
- PRIOR TO SUBMITTING A BID, CONTRACTOR SHALL VISIT THE SITE, CAREFULLY EXAMINE THE EXISTING CONDITIONS AND LIMITATIONS THEREOF, AND CAREFULLY EXAMINE THE CONTRACT DOCUMENTS. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS WHERE PROPOSED WORK, EQUIPMENT AND STRUCTURES ARE TO BE CONSTRUCTED AND COORDINATED WITH EXISTING CONDITIONS TO REMAIN. CONTRACTOR SHALL INCLUDE ALL COSTS WHICH ARE NECESSARY BASED ON LIMITATIONS, PROTECTING AND MAINTAINING EXISTING CONDITIONS AND FINISHED TO REMAIN. LATER CLAIMS FOR ADDITIONAL LABOR, EQUIPMENT, AND MATERIALS REQUIRED DUE TO DIFFICULTIES WHICH COULD HAVE BEEN FORSEEN WILL NOT BE CONSIDERED AS EXTRA WORK.
- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS GOVERNING THE WORK.
- CONTRACTOR IS RESPONSIBLE TO COORDINATE THE ACTIVITIES OF HIS STAFF, ALL SUBCONTRACTORS, CONTRACTED TRADESMAN, SUPPLIERS, UTILITIES, ETC.
- ALL WORK, WHETHER SHOWN OR INFERRED, UNLESS SPECIFICALLY QUESTIONED, SHALL BE CONSIDERED FULLY UNDERSTOOD IN ALL RESPECTS BY THE CONTRACTOR AND HIS SUBCONTRACTORS, AND CONTRACTOR AND ALL SUBCONTRACTORS SHALL THEREBY BE RESPONSIBLE FOR ANY INTERPRETATIONS OR CONSEQUENCES THEREOF FOR ALL WORK ON ALL DRAWINGS.
- ALL WORK SHALL CONFORM TO THE DRAWINGS AND SPECIFICATIONS AND SHALL BE OF NEW AND BEST QUALITY. NO MATERIAL SUBSTITUTIONS SHALL BE PERMITTED EXCEPT BY WRITTEN APPROVAL OF THE OWNER/OWNERS REPRESENTATIVE IN RESPONSE TO CONTRACTOR WRITTEN REQUEST.
- CONTRACTOR SHALL FIRST COORDINATE AND THEN SUBMIT ALL SUBCONTRACTORS SHOP DRAWINGS AND SUBMITTALS TO THE OWNER/OWNERS REPRESENTATIVE FOR REVIEW PRIOR TO ANY WORK OR ASSOCIATED WORK BEING PERFORMED.
- ALL DEBRIS FROM THIS WORK SHALL BE LEGALLY DISPOSED OFF SITE.
- ALL LIMITS OF PAVEMENT REMOVAL SHALL BE SAW CUT.
- EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY GROUND DISTURBANCE AND MAINTAINED FOR THE DURATION OF CONSTRUCTION AND UNTIL SUCH TIME THAT ALL DISTURBED AREAS ARE STABILIZED IN ACCORDANCE WITH NYSDEC STANDARDS.
- THE CONTRACTOR SHALL LIMIT HIS HOURS OF OPERATION WITHIN THE PROJECT AREA TO REGULAR WORKING HOURS BETWEEN 8:00AM AND 4:30PM. UNLESS OTHERWISE APPROVED BY THE COUNTY.
- EQUIPMENT AND MATERIALS LEFT OVER NIGHT SHALL BE SAFEGUARDED & SECURED BEHIND A DESIGNATED CONTROLLED AREA AS APPROVED BY THE ENGINEER.
- ANY EXISTING FACILITIES TO REMAIN THAT ARE DAMAGED BY THE CONTRACTOR AND CONSTRUCTION ACTIVITIES SHALL BE REPLACED TO THE SATISFACTION OF THE ENGINEER AND COUNTY/OWNER AT NO EXPENSE TO THE COUNTY/OWNER.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWING(S). FOR APPROVAL OF ALL FIELD LINES/MARKINGS PRIOR TO ORDERING MATERIAL.

UTILITY NOTES

- THE LOCATION OF ALL EXISTING AND PROPOSED UTILITIES SHOWN ARE APPROXIMATE AND SHALL BE CONFIRMED BY CONTRACTOR WITH LOCAL UTILITY PROVIDERS AND THE COUNTY PRIOR TO THE START OF WORK. SHOULD FIELD CONDITIONS VARY FROM THOSE DEPICTED ON THE PLANS, CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER/OWNERS REPRESENTATIVE.
- CONTRACTOR SHALL LOCATE AND MARKOUT ALL SUBSURFACE UTILITIES IN ACCORDANCE WITH NYS CODE RULE 75.3.
- CONTRACTOR SHALL COMPLY WITH ALL OSHA REGULATIONS.

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FEATURE	SYMBOL	
	EXISTING	PROPOSED
BOUNDARIES		
HIGHWAY BOUNDARY LINE	---	---
VILLAGE, CITY OR TOWN LIMITS	---	---
BUILDING		
BUILDING LINE	[]	[]
ROADWAY AND SIDEWALK		
CURB LINE	---	---
SIDEWALK	SW	---
DRIVEWAY APRON	[]	[]
SIDEWALK RAMP	[]	[]
TRAFFIC FLOW	⇌	⇌
VEGETATION		
TREES, DECIDUOUS	[]	[]
TREES, CONIFEROUS	[]	[]
SHRUBS, BUSHES	[]	[]
TOPSOIL AND SOD	GRASS	[]
TRAFFIC SIGNAL SYSTEMS		
PULLBOX	[]	[]
SPAN WIRE	---	---
TRAFFIC SIGNAL POLE	[]	[]
TRAFFIC SIGNAL POLE WITH CONTROLLER CABINET	[]	[]
CONTROLLER OR DETECTOR CABINET	[]	[]
TRAFFIC SIGNAL FACE	[]	[]
PEDESTRIAN SIGNAL FACE	[]	[]
PEDESTRIAN PUSH BUTTON	[]	[]
ALUMINUM VEHICLE DETECTOR HOUSING	[]	[]
AERIAL TRAFFIC SIGNAL COMMUNICATION CABLE	---	---
UNDERGROUND TRAFFIC SIGNAL CONDUIT	---	---
LOOP DETECTOR	[]	[]
SURVEY DATA		
SPOT ELEVATION	X 34.13	+(4.03)
BASELINE	---	---
HORIZONTAL CONTROL LINE	---	---

FEATURE	SYMBOL	
	EXISTING	PROPOSED
UTILITIES BELOW GROUND		
STORM DRAIN INLET	[]	[]
GAS VALVE	+	+
WATER VALVE	+	+
ELECTRIC LINE	E	E
FIRE COMMUNICATIONS LINE	FD	FD
GAS LINE	8"G	8"G
SANITARY SEWER LINE	S	S
STORM DRAINAGE LINE	D	D (Ø)
TELEPHONE LINE	T	T
WATER LINE	W	W
INFORM LINE	INFORM	INFORM
CABLEVISION LINE	CA	CA
ELECTRIC MANHOLE	⊙	⊙
GAS MANHOLE	⊙	⊙
LIPA MANHOLE	⊙	⊙
SANITARY SEWER MANHOLE	⊙	⊙
STORM DRAINAGE MANHOLE	⊙	⊙
TELEPHONE MANHOLE	⊙	⊙
FIRE HYDRANT	▽	▽
STREET LIGHT	+	+
FIELD INLET	●	●
UTILITIES ABOVE GROUND		
MISCELLANEOUS OVERHEAD WIRES	---	---
GUY WIRE	---	---
UTILITY POLE	[]	[]
UTILITY POLE WITH RISER	[]	[]
MISCELLANEOUS FEATURES		
SIGNS	[]	[]
GUIDE RAIL	---	---
MEDIAN BARRIER	---	---
RETAINING WALL	---	---
FENCE	X X X X	X X X X
NORTH ARROW (TRUE)	NORTH	NORTH
BOLLARDS	●	●
TOPOGRAPHY		
CONTOURS	[]	[]
LIMIT OF RESTORATION, GRADING OR CLEARING AND GRUBBING	---	---

<p>TOPOGRAPHIC ABBREVIATIONS:</p> <p>E ELECTRIC G GAS GP GUY POLE GSB GAS SERVICE BOX (HOUSE CONNECTION) GV GAS VALVE (MAIN LINE) HPC HIGH PRESSURE GAS HYD HYDRANT LP LIGHT POLE LPG LOW PRESSURE GAS SA SANITARY SEWER SD STORM DRAINAGE DEWRE ST TELEPHONE TEL P TELEPHONE POLE CA CABLE TELEVISION W WATER WM WATER METER WSB WATER SERVICE BOX (HOUSE CONNECTION) WV WATER VALVE (MAIN LINE) ABUT ABUTMENT AS ORDERED BY THE ENGINEER ASPH ASPHALT BLDG BUILDING BM BENCHMARK BR BRIDGE CONC CONCRETE CONSTR CONSTRUCTION CR COUNTY ROAD DRIVEWAY DRIVEWAY EP EDGE OF PAVEMENT ES EDGE OF SHOULDER FP FENCE POST FND FOUNDATION FL FENCE LINE GAR GARAGE GR GRAVEL HO HOUSE HWY HIGHWAY MB MAIL BOX MON MONUMENT PAVT PAVEMENT RR RAILROAD ROUTE ROUTE RTE RIGHT OF WAY RW RETAINING WALL ST STREET SW SIDEWALK TRELINE TRELINE BC BOTTOM OF CURB CB CATCH BASIN CMP CORRUGATED METAL PIPE CULV. CULVERT D DROP INLET EL ELEVATION</p>	<p>ALIGNMENT ABBREVIATIONS</p> <p>AH AHEAD AZ AZIMUTH BK BACK B BASELINE CB BEARING CL CENTERLINE CS CURVE TO SPIRAL D DEGREE OF CURVE DIA DIAMETER EQ EQUALITY EXT EXTERNAL HCL HORIZONTAL CONTROL LINE HSD HEADLIGHT SIGHT DISTANCE L LENGTH OF CIRCULAR CURVE LS LENGTH OF SPIRAL LVC LENGTH OF VERTICAL CURVE MC CENTER CORRECTION OF VERTICAL CURVE M MAIN LINE PI POINT OF INTERSECTION POI POINT ON LINE PSD PASSING SIGHT DISTANCE PT POINT OF TANGENT PVC POINT OF VERTICAL CURVE PVI POINT OF VERTICAL INTERSECTION PVT POINT OF VERTICAL TANGENT R RADIUS SC SPIRAL TO CURVE SSD STOPPING SIGHT DISTANCE ST SPIRAL TO TANGENT STA STATION T TANGENT LENGTH TGL THEORETICAL GRADE LINE TSL TANGENT TO SPIRAL VC</p>	<p>DRAINAGE ABBREVIATIONS</p> <p>BB BOTTOM OF BANK (STREAM) BC BOTTOM OF CURB BO BOTTOM OF OPENING CAP CORRUGATED ALUMINUM PIPE CB CATCH BASIN CI CURB INLET CIP CAST IRON PIPE CL CENTERLINE OF STREAM CMP CORRUGATED METAL PIPE CP CONCRETE PIPE CSP CORRUGATED STEEL PIPE CULV CULVERT DI DROP INLET DYKING DITCH CROSSING EHW EXTREME HIGH WATER ELEV OR EL ELEVATION ELW EXTREME LOW WATER ES END SECTION FI FIELD INLET HW HEADWALL INV INVERT LB LEACHING BASIN MH MANHOLE MHW MEAN HIGH WATER OAMP OBLATE CORRUGATED METAL PIPE OHW ORDINARY HIGH WATER OLW ORDINARY LOW WATER RCP REINFORCED CONCRETE PIPE RCP TOP OF BANK TB TOP OF CURB TC TOP OF GRATE TO TOP OF OPENING VCLF VINYL CLAD CHAIN LINK FENCE VCP VITRIFIED GLAY PIPE VTP VITRIFIED TILE PIPE</p>
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NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

GENERAL NOTES, LEGEND, AND ABBREVIATIONS
HICKSVILLE, NEW YORK
TASK ORDER 41-2019, CONTRACT No. H61001-10C6

SCALE: N.T.S. DWG. No. GNLA-1 DATE: AUGUST 2023

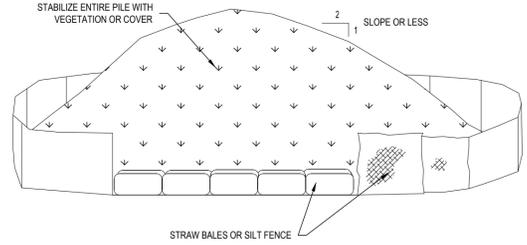
PREPARED BY: RS DRAWN BY: EL

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APPROVED: DATE:

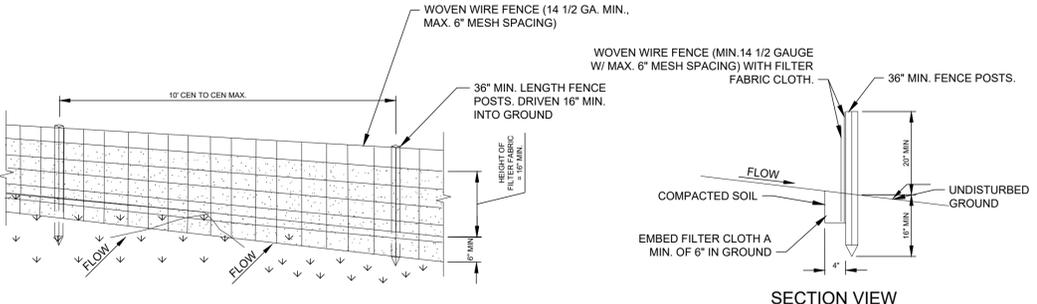
No.	DATE	DESCRIPTION	BY

- NOTES:**
1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE. LOCATE AWAY FROM ALL DRAINAGE SYSTEMS.
 2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2:1.
 3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAW BALES, THEN STABILIZED WITH VEGETATION OR COVERED. PERIMETER PROTECTION SHALL BE A MINIMUM OF 2-FEET FROM THE TOE OF SLOPE.
 4. WHEN SOIL STOCKPILE ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED, THE APPLICATION OF SOIL STABILIZATION MEASURES MUST BE INITIATED BY THE END OF THE NEXT BUSINESS DAY AND COMPLETED WITHIN FOURTEEN (14) DAYS FROM THE DATE THE CURRENT SOIL DISTURBANCE ACTIVITY CEASED.



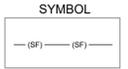
TO BE USED WHERE TEMPORARY SOIL STOCKPILES ARE BUILT AS A RESULT OF LAND DISTURBANCE ACTIVITIES OR WHERE TOPSOIL IS NECESSARY FOR REGRADING AND VEGETATING DISTURBED AREAS. TEMPORARY STOCKPILE STABILIZATION MEASURES INCLUDE VEGETATIVE COVER, MULCH, NONVEGETATIVE COVER, AND PERIPHERAL SEDIMENT TRAPPING BARRIERS. THE STABILIZATION MEASURE(S) SELECTED SHOULD BE APPROPRIATE FOR THE TIME OF YEAR, SITE CONDITIONS, AND REQUIRED PERIOD OF USE.

SOIL STOCKPILE



PERSPECTIVE VIEW

SILT FENCE DETAIL



CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

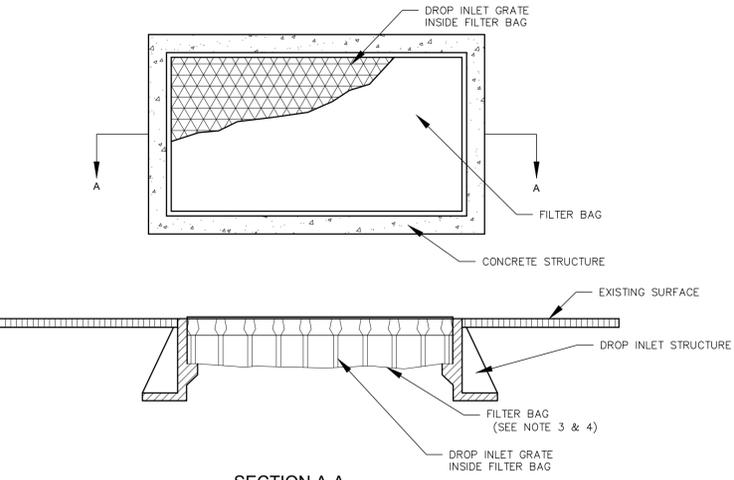
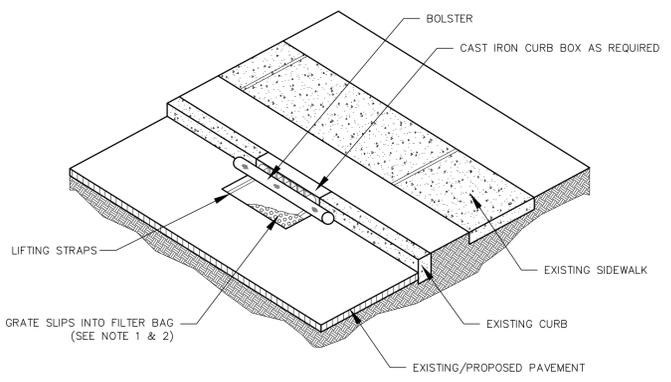
EROSION CONTROL NOTES

1. A - EXISTING VEGETATION TO REMAIN SHALL BE PROTECTED AND REMAIN UNDISTURBED. B - SEDIMENT SHALL BE TRAPPED ON-SITE.
2. SPECIFIC METHODS AND MATERIALS EMPLOYED IN THE INSTALLATION AND MAINTENANCE OF EROSION CONTROL MEASURES SHALL CONFORM TO THE NEW YORK GUIDELINES FOR EROSION AND SEDIMENT CONTROL, LATEST EDITION.
3. SEDIMENT BARRIERS SHALL BE INSTALLED AS REQUIRED ALONG LIMITS OF DISTURBANCE FOR THE DURATION OF THE WORK. NO SEDIMENT FROM THE SITE SHALL BE PERMITTED TO WASH ON TO ADJACENT PROPERTIES, WETLANDS OR ROADS.
4. GRADED AND STRIPPED AREAS AND STOCKPILES SHALL BE KEPT STABILIZED THROUGH THE USE OF TEMPORARY SEEDING AS REQUIRED. SEED MIXTURE SHALL BE IN ACCORDANCE WITH SOIL CONSERVATION SERVICE RECOMMENDATIONS.
5. DRAINAGE INLETS SHALL BE PROTECTED FROM SEDIMENT BUILD-UP THROUGH THE USE OF SEDIMENT BARRIERS, SEDIMENT TRAPS, ETC., AS REQUIRED.
6. INSPECTION AND MAINTENANCE OF EROSION CONTROL MEASURES IS TO BE PERFORMED DAILY BY CONTRACTOR AND AFTER HEAVY OR PROLONGED STORMS. MAINTENANCE MEASURES INCLUDE, BUT NOT LIMITED TO, CLEANING OF SEDIMENT BASINS OR TRAPS, CLEANING OR REPAIR OF SEDIMENT BARRIERS, CLEANING AND REPAIR OF BERMS AND DIVERSIONS, AND CLEANING AND REPAIR OF OF INLET PROTECTION.
7. APPROPRIATE MEANS SHALL BE USED TO CONTROL DUST DURING CONSTRUCTION.
8. SEDIMENT BARRIERS AND OTHER EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL UPLAND DISTURBED AREAS ARE PERMANENTLY STABILIZED. AFTER PERMANENT STABILIZATION, PAVED AREAS SHALL BE CLEANED AND DRAINAGE SYSTEM FLUSHED AS NECESSARY.
9. DURING THE COURSE OF CONSTRUCTION, CERTAIN EROSION AND SEDIMENT CONTROL MEASURES MAY BECOME NECESSARY TO PREVENT THE TRANSPORT OF SEDIMENT TO OFF-SITE AREAS, PONDS, WATER COURSES, DRAINAGE INLETS, RECHARGE BASINS, ETC. ACTUAL EROSION CONTROL MEASURES WILL BE DICTATED BY FIELD CONDITIONS AS CONSTRUCTION PROGRESSES BUT THE GENERAL CONDITIONS IN

DICTATED BY FIELD CONDITIONS AS CONSTRUCTION PROGRESSES BUT THE GENERAL CONDITIONS IN

CONSTRUCTION SPECIFICATIONS

1. MAINTENANCE: WITH A STIFF BRISTLE BROOM, SWEEP SILT AND OTHER DEBRIS OFF SURFACE AFTER EACH EVENT.
 2. INSTALLATION:
 - A. STAND GRATE ON END.
 - B. SLIDE THE SILT BAG ON WITH THE DAM ON TOP OF THE GRATE. PULL ALL EXCESS DOWN.
 - C. LAY THE UNIT ON ITS SIDE AND CAREFULLY TUCK THE FLAP IN.
 - D. PRESS THE VELCRO STRIPS TOGETHER.
 - E. INSTALL THE UNIT MAKING SURE THE FRONT EDGE OF GRATE IS INSERTED IN THE FRAME FIRST THEN LOWER IT BACK IN PLACE.
 - F. PRESS THE VELCRO DOTS THAT ARE LOCATED UNDER THE LIFTING STRAPS TOGETHER, THIS INSURES THAT THE STRAPS REMAIN FLUSH WITH THE GUTTER.
 3. INSTALLATION:
 - A. STAND GRATE ON END.
 - B. PLACE THE SILT BAG OVER GRATE.
 - C. FLIP THE GRATE OVER SO THAT THE OPEN END IS UP.
 - D. PULL UP THE SLACK AND TUCK THE FLAP IN.
 - E. BE SURE THAT THE END OF THE GRATE IS COMPLETELY COVERED BY THE FLAP OR THE DANDY BAY WILL NOT FIT PROPERLY.
 - F. WHILE HOLDING THE HANDLES, CAREFULLY PLACE DANDY BAG WITH THE GRATE INSERTED INTO THE CATCH BASIN FRAME SO THAT THE RED DOT ON THE TOP OF THE DANDY BAG IS VISIBLE.
- MAINTENANCE: AFTER THE SILT HAS DRIED, REMOVE IT FROM THE SURFACE OF THE SILT BAG WITH A BROOM.
4. PRIOR AND/OR DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL COMPLY WITH ALL ADDITIONAL MEASURES DEEMED NECESSARY BY THE ENGINEER AND SHALL BE RESPONSIBLE FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROL DEVICES.
 5. ALL DEBRIS OR EXCESS MATERIALS FROM CONSTRUCTION OF THIS PROJECT SHALL BE IMMEDIATELY AND COMPLETELY REMOVED FROM THE PROJECT AREA.
 6. ALL INLET SEDIMENT CONTROL DEVICES AT EACH LOCATION SHALL BE INSTALLED PRIOR TO COMMENCING ANY PAVEMENT WORK IN THAT LOCATION OR AS OTHERWISE DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL MAINTAIN ALL SEDIMENT CONTROLS AND REMOVE COLLECTED SEDIMENT ON A WEEKLY BASIS OR AS DIRECTED BY THE ENGINEER. COLLECTED MATERIAL SHALL BE DISPOSED OF PROPERLY TO AN OFF-SITE LOCATION AS DIRECTED BY THE ENGINEER.
 7. ALL SEDIMENT CONTROL DEVICES SHALL BE REMOVED FROM THE SITE AFTER CONSTRUCTION IS COMPLETED.



TYPICAL BOLSTER DETAIL

TEMPORARY SEDIMENT FILTER BAGS

STANDARD SYMBOL

DUST CONTROL NOTES

DEFINITION
THE CONTROL OF DUST RESULTING FROM LAND-DISTURBING ACTIVITIES.

PURPOSE
TO PREVENT SURFACE AND AIR MOVEMENT OF DUST FROM DISTURBED SOIL SURFACES THAT MAY CAUSE OFF-SITE DAMAGE, HEALTH HAZARDS AND TRAFFIC SAFETY PROBLEMS.

CONDITIONS WHERE PRACTICE APPLIES
ON CONSTRUCTION ROADS, ACCESS POINTS, AND OTHER DISTURBED AREAS SUBJECT TO SURFACE DUST MOVEMENT AND DUST BLOWING WHERE OFF-SITE DAMAGE MAY OCCUR IF DUST IS NOT CONTROLLED.

DESIGN CRITERIA
CONSTRUCTION OPERATIONS SHOULD BE SCHEDULED TO MINIMIZE THE AMOUNT OF AREA DISTURBED AT ONE TIME. BUFFER AREAS OF VEGETATION SHOULD BE LEFT WHERE PRACTICAL. TEMPORARY OR PERMANENT STABILIZATION MEASURES SHOULD BE INSTALLED. NO SPECIFIC DESIGN CRITERIA ARE GIVEN; SEE CONSTRUCTION SPECIFICATIONS BELOW FOR COMMON METHODS OF DUST CONTROL.

WATER QUALITY MUST BE CONSIDERED WHEN MATERIALS ARE SELECTED FOR DUST CONTROL. WHERE THERE IS POTENTIAL FOR THE MATERIAL TO WASH OFF TO A STREAM OR WATER BODY, INGREDIENT INFORMATION MUST BE PROVIDED TO THE LOCAL PERMITTING AUTHORITY.

CONSTRUCTION SPECIFICATIONS

A. NON-DRIVING AREAS - THESE AREAS USE PRODUCTS AND MATERIALS APPLIED OR PLACED ON SOIL SURFACES TO PREVENT AIRBORNE MIGRATION OF SOIL PARTICLES.

VEGETATIVE COVER - FOR DISTURBED AREAS NOT SUBJECT TO TRAFFIC, VEGETATION PROVIDES THE MOST PRACTICAL METHOD OF DUST CONTROL. TEMPORARY SEEDING SHALL BE AS FOLLOWS:

RYE GRASS (ANNUAL OR PERENNIAL) AT 30 LBS. PER ACRE (0.7 LBS./1,000 S.F.)

CERTIFIED "AROSTOOK" WINTER RYE (CEREAL RYE) AT 100 LBS. PER ACRE (2.5 LBS./S.F.)

USE WINTER RYE IF SEEDING IN OCTOBER / NOVEMBER.

MULCH (INCLUDING GRAVEL MULCH) - MULCH OFFERS A FAST, EFFECTIVE MEANS OF CONTROLLING DUST. THIS CAN ALSO INCLUDE ROLLED EROSION CONTROL BLANKETS.

SPRAY ADHESIVES - THESE ARE PRODUCTS GENERALLY COMPOSED OF POLYMERS IN A LIQUID OR SOLID FORM THAT ARE MIXED WITH WATER TO FORM AN EMULSION THAT IS SPRAYED ON THE SOIL SURFACE WITH TYPICAL HYDROSEEDING EQUIPMENT. THE MIXING RATIOS AND APPLICATION RATES WILL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR THE SPECIFIC SOILS ON THE SITE. IN NO CASE SHOULD THE APPLICATION OF THESE ADHESIVES BE MADE ON WET SOILS OR IF THERE IS A PROBABILITY OF PRECIPITATION WITHIN 48 HOURS OF ITS PROPOSED USE. MATERIAL SAFETY DATA SHEETS WILL BE PROVIDED TO ALL APPLICATORS AND OTHERS WORKING WITH THE MATERIAL.

EXAMPLES OF SPRAY ADHESIVES FOR USE ON MINERAL SOILS ARE SHOWN IN THE FOLLOWING TABLE.

MATERIAL	WATER DILUTION	TYPE OF NOZZLE	APPLY GALLONS ACRE
ACRYLIC POLYMER	9:1	COURSE SPRAY	500
LATEX EMULSION	12.5:1	FINE SPRAY	235
RESIN IN WATER	4:1	FINE SPRAY	300

B. DRIVING AREAS - THESE AREAS UTILIZE WATER, POLYMER EMULSIONS AND BARRIERS TO PREVENT DUST MOVEMENT FROM THE TRAFFIC SURFACE INTO THE AIR.

SPRINKLING - THIS SITE MAY BE SPRAYED UNTIL THE SURFACE IS WET. THIS IS ESPECIALLY EFFECTIVE ON HAUL ROADS AND ACCESS ROUTES.

POLYMER ADDITIVES - THESE POLYMERS ARE MIXED WITH WATER AND APPLIED TO THE DRIVING SURFACE BY A WATER TRUCK WITH A GRAVITY FEED DRIP BAR, SPRAY BAR OR AUTOMATED DISTRIBUTOR TRUCK. THE MIXING RATIOS AND APPLICATION RATES WILL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. INCORPORATION OF THE EMULSION INTO THE SOIL WILL BE DONE TO THE APPROPRIATE DEPTH BASED ON EXPECTED TRAFFIC. COMPACTION AFTER INCORPORATION WILL BE BY VIBRATORY ROLLER TO A MINIMUM OF 95%. THE PREPARED SURFACE SHALL BE MOIST AND NO APPLICATION OF THE POLYMER WILL BE MADE IF THERE IS A PROBABILITY OF PRECIPITATION WITHIN 48 HOURS OF ITS PROPOSED USE. MATERIAL SAFETY DATA SHEETS WILL BE PROVIDED TO ALL APPLICATORS WORKING WITH THE MATERIAL.

BARRIERS - WOVEN GEOTEXTILES CAN BE PLACED ON THE DRIVING SURFACE TO EFFECTIVELY REDUCE DUST THROW AND PARTICLE MIGRATION ON HAUL ROADS. STONE CAN ALSO BE USED FOR CONSTRUCTION ROADS FOR EFFECTIVE DUST CONTROL.

WINDBREAK - A SILT FENCE OR SIMILAR BARRIER CAN CONTROL AIR CURRENTS AT INTERVALS EQUAL TO TEN TIMES THE BARRIER HEIGHT. PRESERVE EXISTING WIND BARRIER VEGETATION AS MUCH AS PRACTICAL.

MAINTENANCE
MAINTAIN DUST CONTROL MEASURES THROUGHOUT WEATHER EVENTS ON THE DISTURBED AREA ARE STABILIZED.

50% PROGRESS PRINT

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NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

MISCELLANEOUS DETAILS - 1
NASSAU COUNTY, NEW YORK
TASK ORDER 41-2019, CONTRACT No. H61001-10C6

SCALE: N.T.S. DWG. No. MD-1 DATE: AUGUST 2023

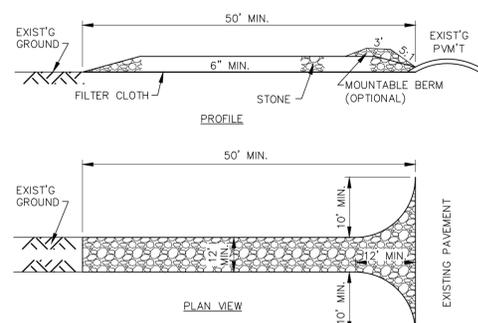
PREPARED BY: RS DRAWN BY:

APPROVED: DATE:

APPROVED: DATE:

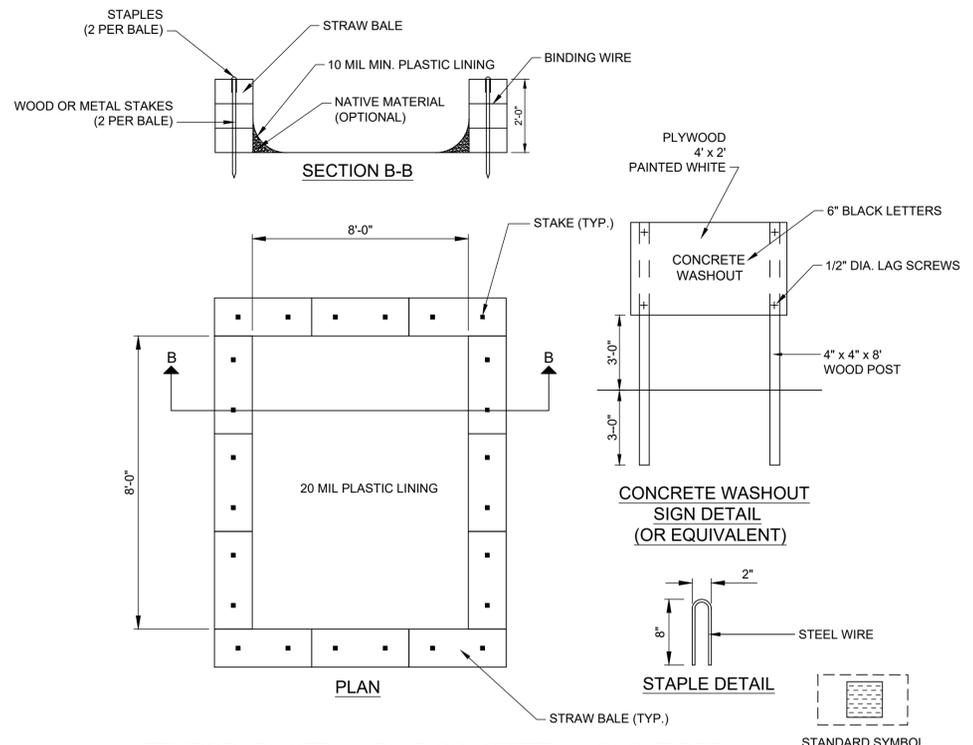
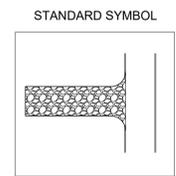
PROJECT PLAN REVISIONS

No.	DATE	DESCRIPTION	BY



STABILIZED CONSTRUCTION ACCESS DRIVEWAY
NOT TO SCALE

- CONSTRUCTION NOTES:**
1. STONE SIZE - USE 1-4" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
 2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY)
 3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
 4. WIDTH TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
 5. GEOTEXTILE - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
 6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ACCESS SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
 7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
 8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
 9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.



TEMPORARY STRAW BALE CONCRETE WASHOUT DETAIL
NOT TO SCALE

- NOTES:**
1. WASHOUT AREA SHALL BE A MINIMUM OF 100' FROM STORM DRAIN INLETS, OPEN DRAINAGE FACILITIES AND WATER COURSES.
 2. PREVENT SURFACE WATER FROM ENTERING THE STRUCTURE. EXCESS RAINWATER ACCUMULATES OVER HARDENED CONCRETE SHALL BE PUMPED TO AN APPROVED STABILIZED AREA.
 3. ONCE CONCRETE WASTES ARE WASHED INTO DESIGNATED AREAS, ALLOWED TO HARDEN, AND FILL 75% OF SURFACE CAPACITY, THE CONCRETE SHOULD BE BROKEN UP, REMOVED AND DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, COUNTY, AND STATE REGULATIONS.
 4. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 20' OF TEMPORARY WASHOUT FACILITY.
 5. WASHOUT FACILITY SHALL BE INSPECTED DAILY.
 6. THE PLASTIC LINER SHALL BE REPLACED WITH EACH CLEANING OF THE WASHOUT FACILITY.



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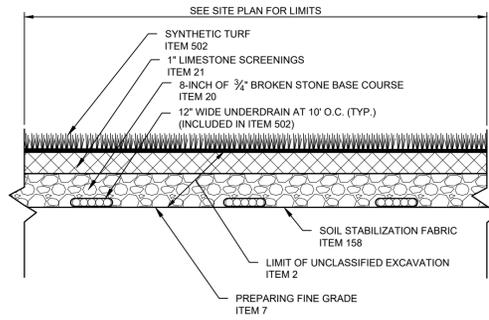
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DIVISION OF ENGINEERING

MISCELLANEOUS DETAILS - 2
NASSAU COUNTY, NEW YORK
TASK ORDER 41-2019, CONTRACT No. H61001-10C6

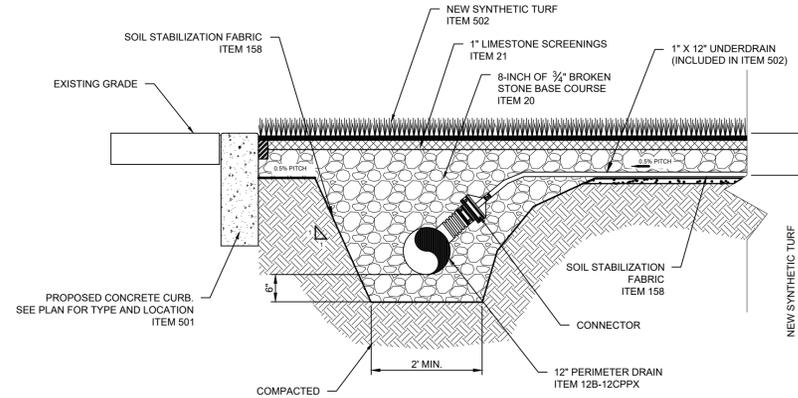
PROJECT PLAN REVISIONS			
No.	DATE	DESCRIPTION	BY

SCALE: N.T.S.	DWG. No. MD-2	DATE: AUGUST 2023
PREPARED BY: RS	DRAWN BY:	
APPROVED:	DATE:	
APPROVED:	DATE:	



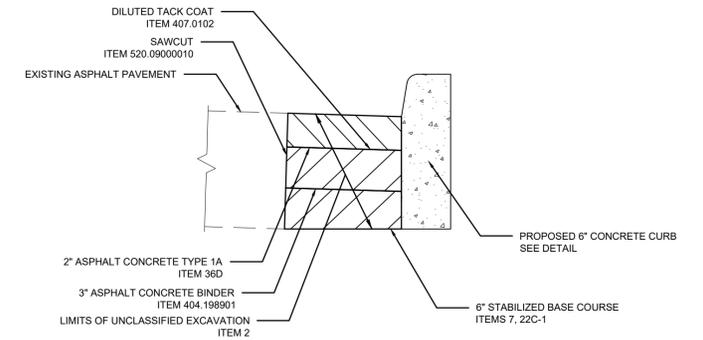
SYNTHETIC TURF FIELD DETAIL

ITEM 502
NOT TO SCALE



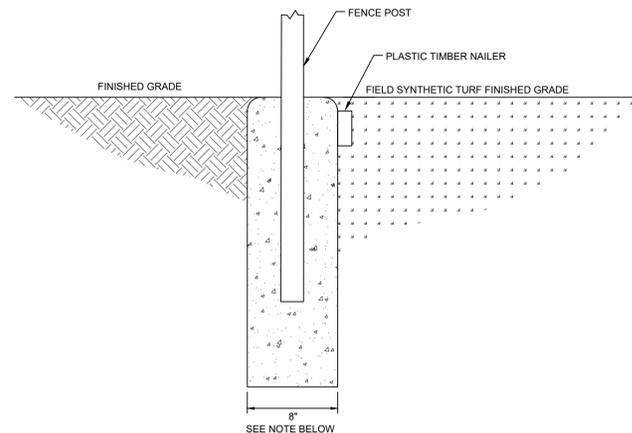
SYNTHETIC TURF DRAIN PIPE CONNECTION DETAIL

ITEM 502
NOT TO SCALE



PAVEMENT RESTORATION DETAIL

ITEM 26
NOT TO SCALE

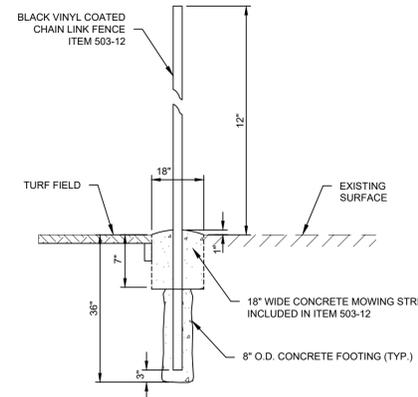


SYNTHETIC TURF TO NATURAL TURF CONCRETE

NOT TO SCALE

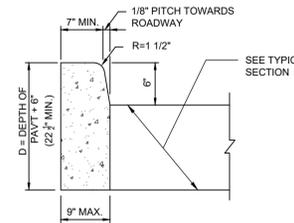
NOTES:

1. CONTRACTOR SHALL PROVIDE CONTROL JOINTS EVERY 20' MIN.
2. BACKSTOP TURF CURB WIDTH SHALL BE 12" IN WIDTH



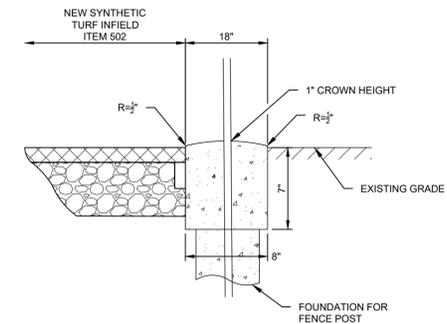
**CONCRETE MOWING STRIP/
FENCE POST FOUNDATIONAL DETAIL**

INCLUDED IN ITEM 503-12
NOT TO SCALE



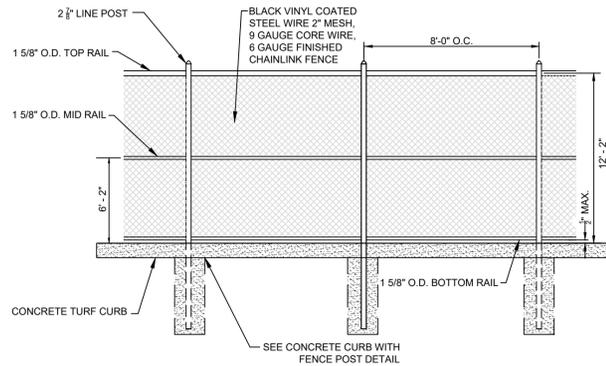
CONCRETE CURB DETAIL

ITEM 26
NOT TO SCALE



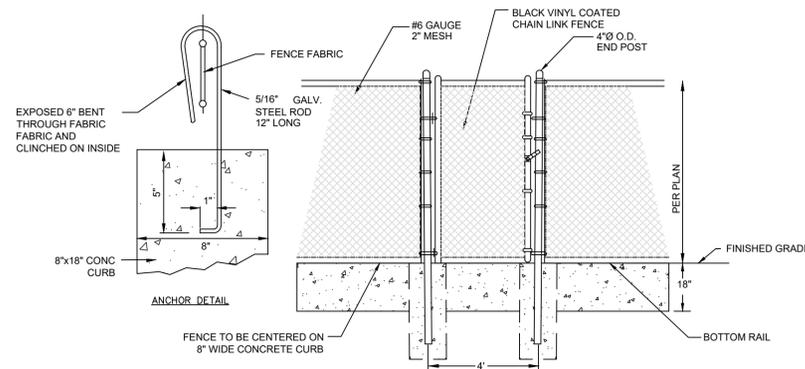
CONCRETE MOWING STRIP

INCLUDED IN ITEM 503-12
NOT TO SCALE



**12-FOOT HIGH BLACK VINYL
CHAIN LINK FENCE DETAIL**

ITEM 503-12
NOT TO SCALE



SINGLE GATE CHAIN LINK FENCE DETAIL

NOT TO SCALE

NOTES:

1. POSTS SHALL BE A MAX. OF 10' O.C.
2. FITTINGS SHALL BE OF GALVANIZED MALLEABLE IRON OR PRESSED STEEL.
3. ALL TIES TO BE OF ALUMINUM No. 9 WIRE.
4. FOR LINE POSTS, INSTALL ONE TIE FOR EVERY FOOT OF FABRIC HEIGHT. FOR RAIL AND BRACES, THE TIES MUST BE APPROXIMATELY 24" APART.
5. ALL CONCRETE TO BE 3,500 PSI @ 28 DAYS.

NOTE:

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PROJECT PLAN REVISIONS

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MISCELLANEOUS DETAILS - 3

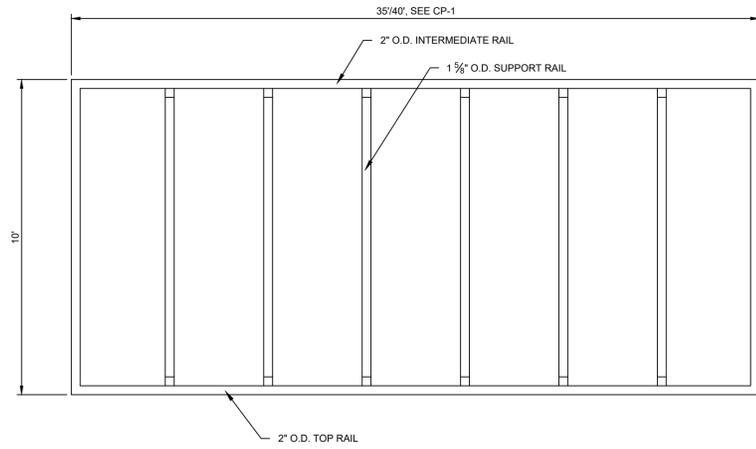
NASSAU COUNTY, NEW YORK
TASK ORDER 41-2019, CONTRACT No. H61001-10C6

SCALE: N.T.S. DWG. No. MD-3 DATE: AUGUST 2023

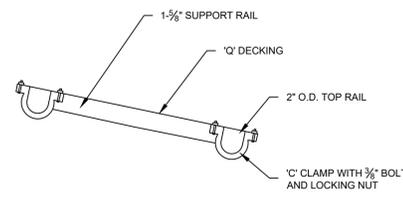
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APPROVED: DATE:

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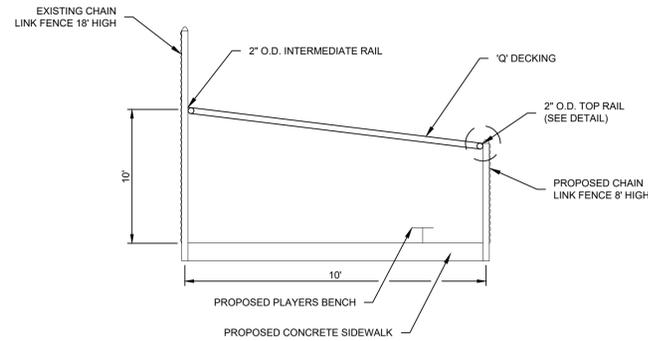


PLAN VIEW: DUGOUT ROOF
NOT TO SCALE

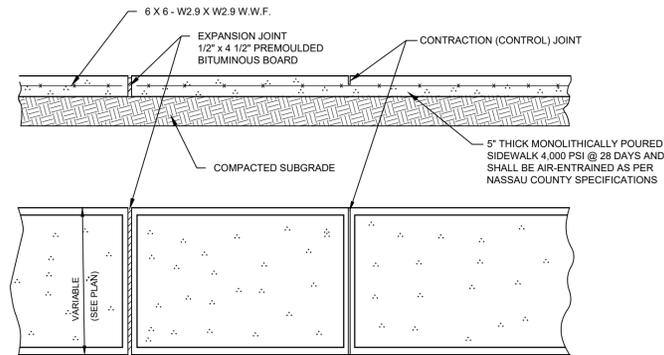


SPECIAL DETAIL: ROOF CONNECTION
NOT TO SCALE

NOTE:
PROVIDE 'C' CLAMP A MID POINT OF CROSS SUPPORT RAIL

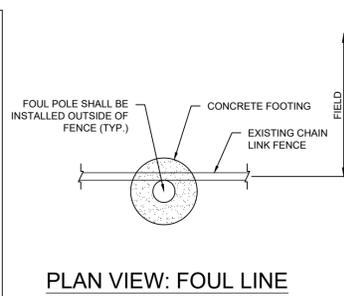


DUGOUT ROOF DETAIL
ITEM 511
NOT TO SCALE

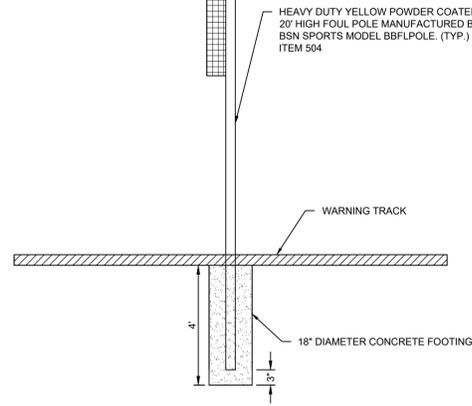


NOTE:
CONTROL JOINTS EVERY 5'-0" (MAX.) AND EXPANSION JOINTS EVERY 20'-0" (MAX.), OR A.O.B.E.

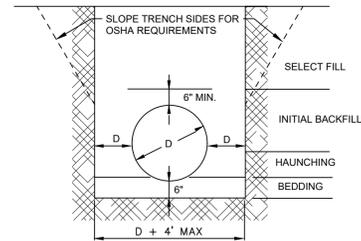
CONCRETE SIDEWALK DETAIL
ITEM 27
NOT TO SCALE



PLAN VIEW: FOUL LINE



FOUL POLE DETAIL
ITEM 504
NOT TO SCALE

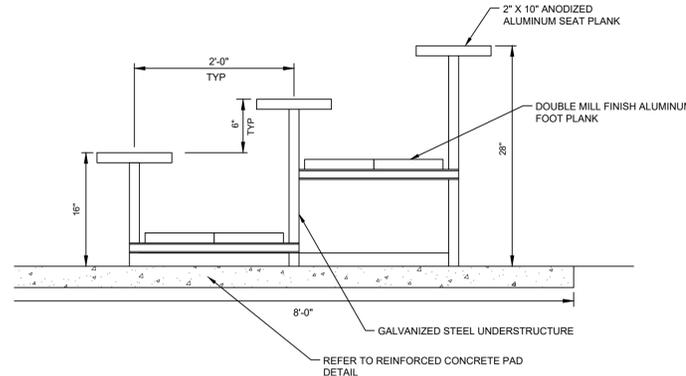


PIPE TRENCH DETAIL
ITEM 12B-12CPP
NOT TO SCALE

INCLUDES CORRUGATED METAL PIPE, CORRUGATED POLYETHYLENE PIPE AND/OR CHLORIDE PIPE.

NOTES:

1. BEDDING SHALL BE COMPACTED SAND & GRAVEL AND SHALL BE SHAPED TO THE BOTTOM OF THE PIPE.
2. HAUNCHING AND INITIAL BACKFILL MATERIAL SHALL BE COCOMPACTED. MATERIAL SHALL BE CLASS I OR II (REFER ASTM D2321) GRANULAR TO 95% STANDARD PROCTOR.
3. SELECT FILL PLACEMENT AND COMPACTION SAME AS FOR RCP.
4. UNSUITABLE MATERIAL SHALL BE REMOVED 2' BELOW INVERT OF PIPE AND BACKFILL WITH SAND AND GRAVEL. OR AS ORDERED BY ENGINEER. (A.O.B.E.)

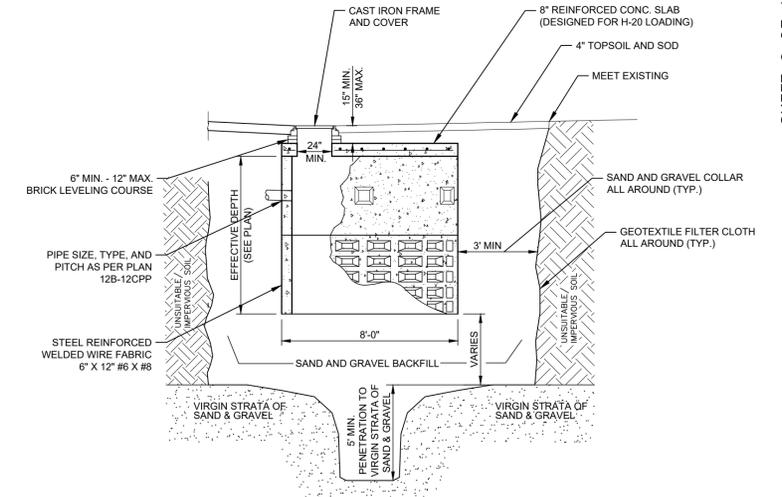


BLEACHER DETAIL
NOT TO SCALE

MANUFACTURER - NATIONAL RECREATION SYSTEMS INC. OR APPROVED EQUAL
MODEL # NB-0315GPRF

NOTE:

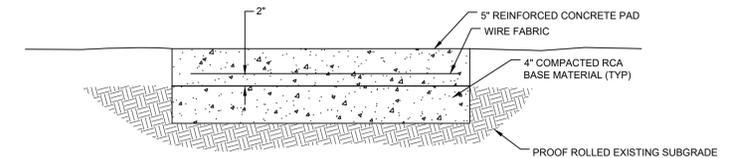
1. BLEACHER UNITS TO BE INSTALLED ON REINFORCED CONCRETE BLEACHER PADS.
2. BLEACHER UNIT TO BE FASTENED TO 5" CONCRETE BLEACHER PAD WITH A MINIMUM OF 8 HOLDDOWN BRACKETS AND GALVANIZED STEEL BOLTS, PER MANUFACTURERS RECOMMENDATIONS.



DIFFUSION WELL DETAIL
ITEM 15DW-8
NOT TO SCALE

NOTES:

1. ALL DRAINAGE PIPES MUST BE PROVIDED WITH A MINIMUM 2'-0" OF COVER.
2. ANY UNSUITABLE MATERIAL UNDER THE LEACHING BASIN SHALL BE EXCAVATED AND REMOVED UNTIL A VIRGIN STRATA OF SAND AND GRAVEL IS ENCOUNTERED. AN ADDITIONAL 5' IS THEN TO BE EXCAVATED INTO THE VIRGIN SAND AND GRAVEL. THE HOLE IS TO BE BACKFILLED WITH CLEAN SAND AND GRAVEL TO THE ELEVATION OF THE PROPOSED BOTTOM OF THE LEACHING BASIN.
3. WHEN GROUND WATER IS WITHIN 8' OF PAVEMENT GRADE, TOP SECTION SHALL BE LEACHING TYPE WITH GEOTEXTILE FILTER CLOTH INSTALLED. AOS 095 SHALL BE 0.52mm OR GREATER IN ACCORDANCE WITH ASTM D4751.
4. ALL UNCLASSIFIED EXCAVATION REQUIRED FOR THE INSTALLATION OF THE DIFFUSION WELL SHALL BE INCLUDED IN ITEM 15DW-8.



REINFORCED CONCRETE PAD FOR BLEACHERS
NOT TO SCALE

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MISCELLANEOUS DETAILS - 4

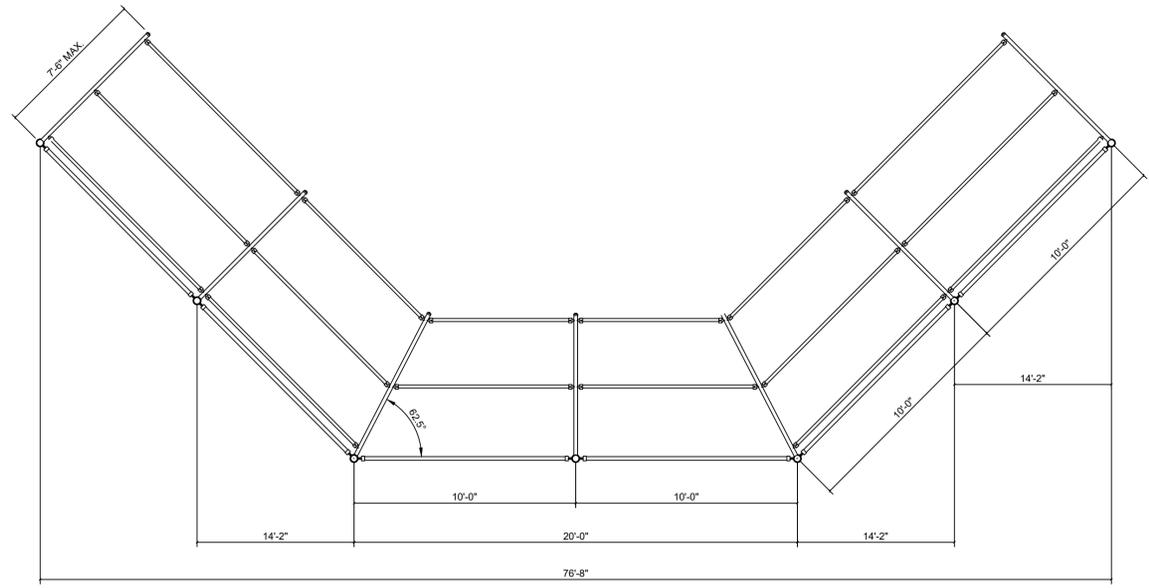
NASSAU COUNTY, NEW YORK
TASK ORDER 41-2019, CONTRACT No. H61001-10C6

SCALE: N.T.S. DWG. No. MD-4 DATE: AUGUST 2023

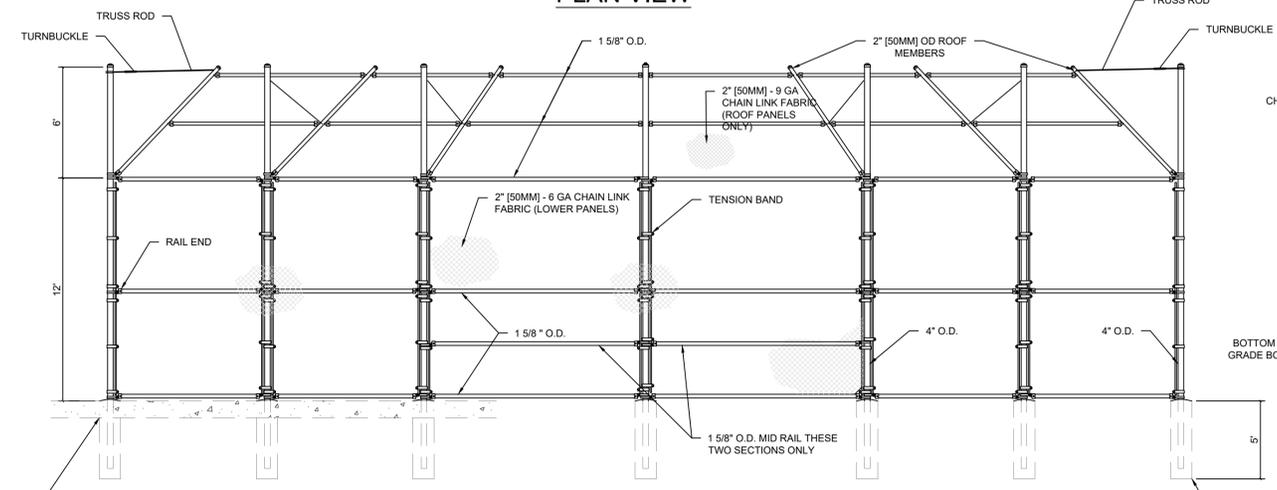
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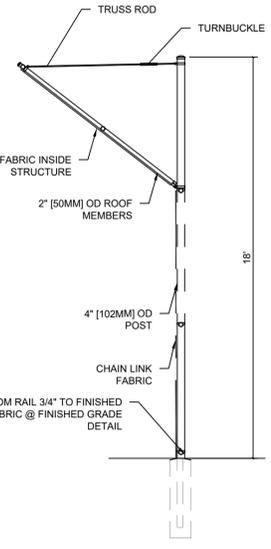
PROJECT PLAN REVISIONS			
No.	DATE	DESCRIPTION	BY



PLAN VIEW



ELEVATION VIEW



SIDE VIEW

FOOTING TO STOP AT BOTTOM OF 12" WIDE CURB WHERE SHOWN ON DRAWING CP-2

- NOTE:**
- FOOTING WIDTH TO BE (4)X POST WIDTH.

1 BASEBALL BACKSTOP DETAIL
ITEM 106P-B
 NOT TO SCALE

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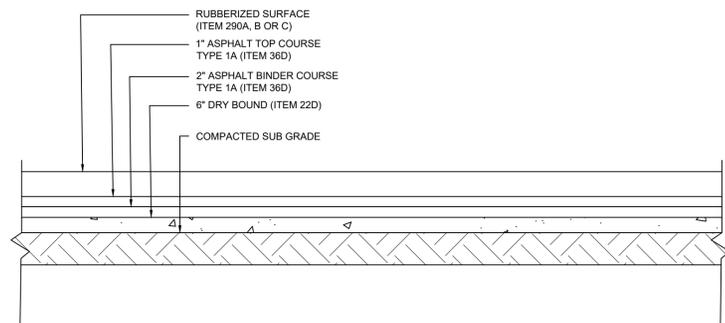
MISCELLANEOUS DETAILS - 5
 NASSAU COUNTY, NEW YORK
 TASK ORDER 41-2019, CONTRACT No. H61001-10C6
 SCALE: N.T.S. DWG. No. MD-5 DATE: AUGUST 2023

PROJECT PLAN REVISIONS

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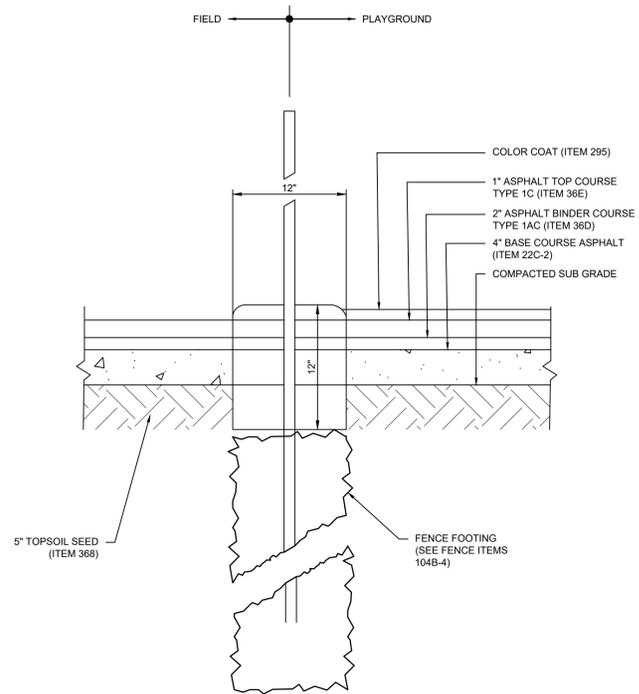
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PDI: 230823-14.08 | DIR: G:\PROJECTS\22229 DWG ROADWAY\22229_COV.DWG_MD-6 | DST: ROADWAY (PDF).PC3 | PST: ROADWAY - STANDARD.CTB | PSL: 1:1 | BY: MB



PLAYGROUND AREA PAVEMENT DETAILS

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PLAYGROUND AREA PAVEMENT DETAILS

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MISCELLANEOUS DETAILS - 6
 NASSAU COUNTY, NEW YORK
 TASK ORDER 41-2019, CONTRACT No. H61001-10C6

SCALE: N.T.S. | DWG. No. MD-6 | DATE: AUGUST 2023

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APPROVED: | DATE:

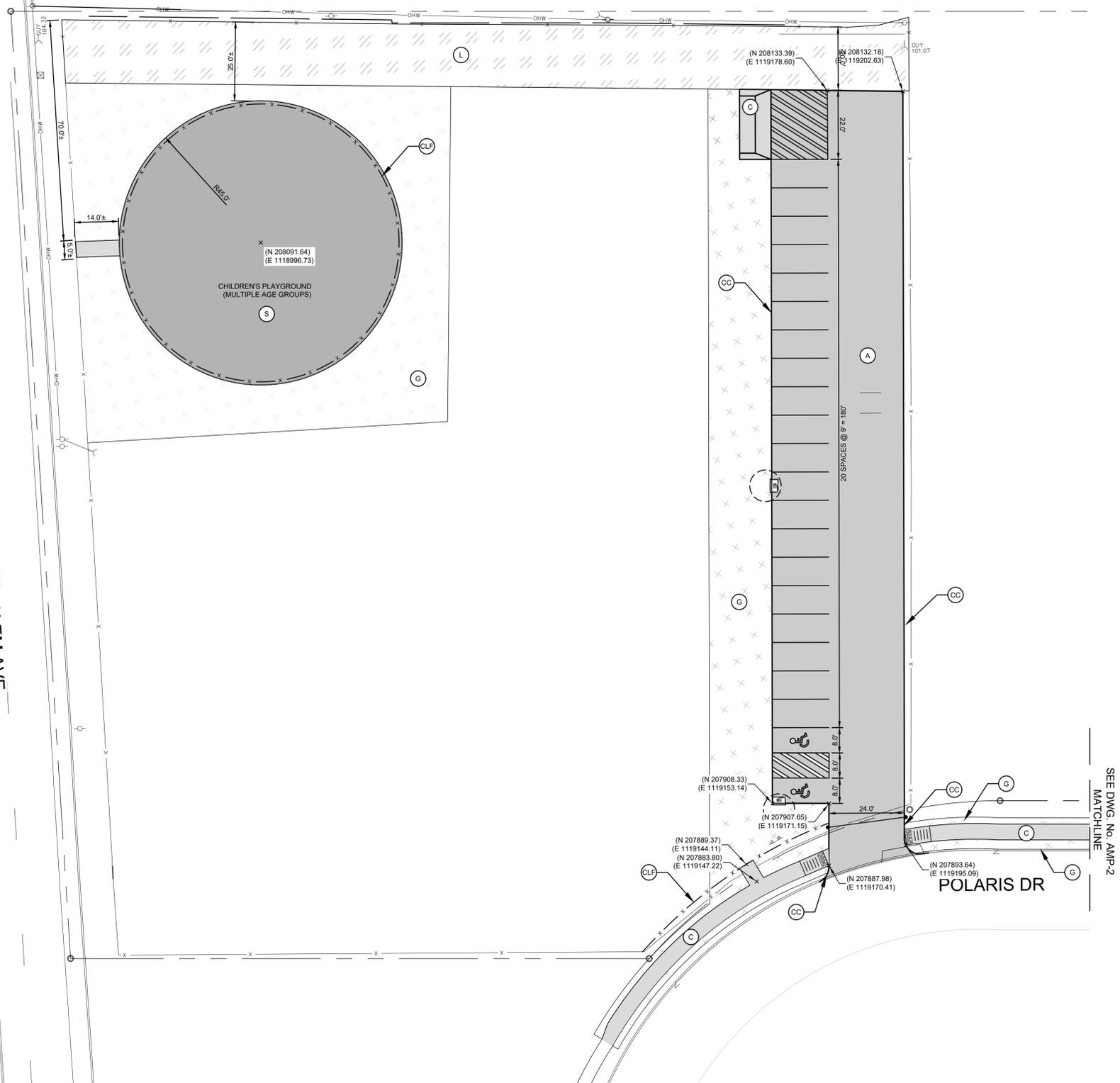
PROJECT PLAN REVISIONS

No.	DATE	DESCRIPTION	BY

LEGEND

- (A) ASPHALT PAVEMENT
- (C) CONCRETE PAVEMENT
- (CC) CONCRETE CURB
- (L) LANDSCAPE AREA
- (T) SYNTHETIC TURF FIELD
- (S) SAFETY SURFACING
- (G) NATURAL GRASS
- (CLF) VINYL COATED CHAIN LINK FENCE

JERUSALEM AVE



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ALIGNMENT AND MATERIALS PLAN - 1
 NASSAU COUNTY, NEW YORK
 TASK ORDER 41-2019, CONTRACT No. H61001-10C6

SCALE: N.T.S. DWG. No. **AMP-1** DATE: **AUGUST 2023**

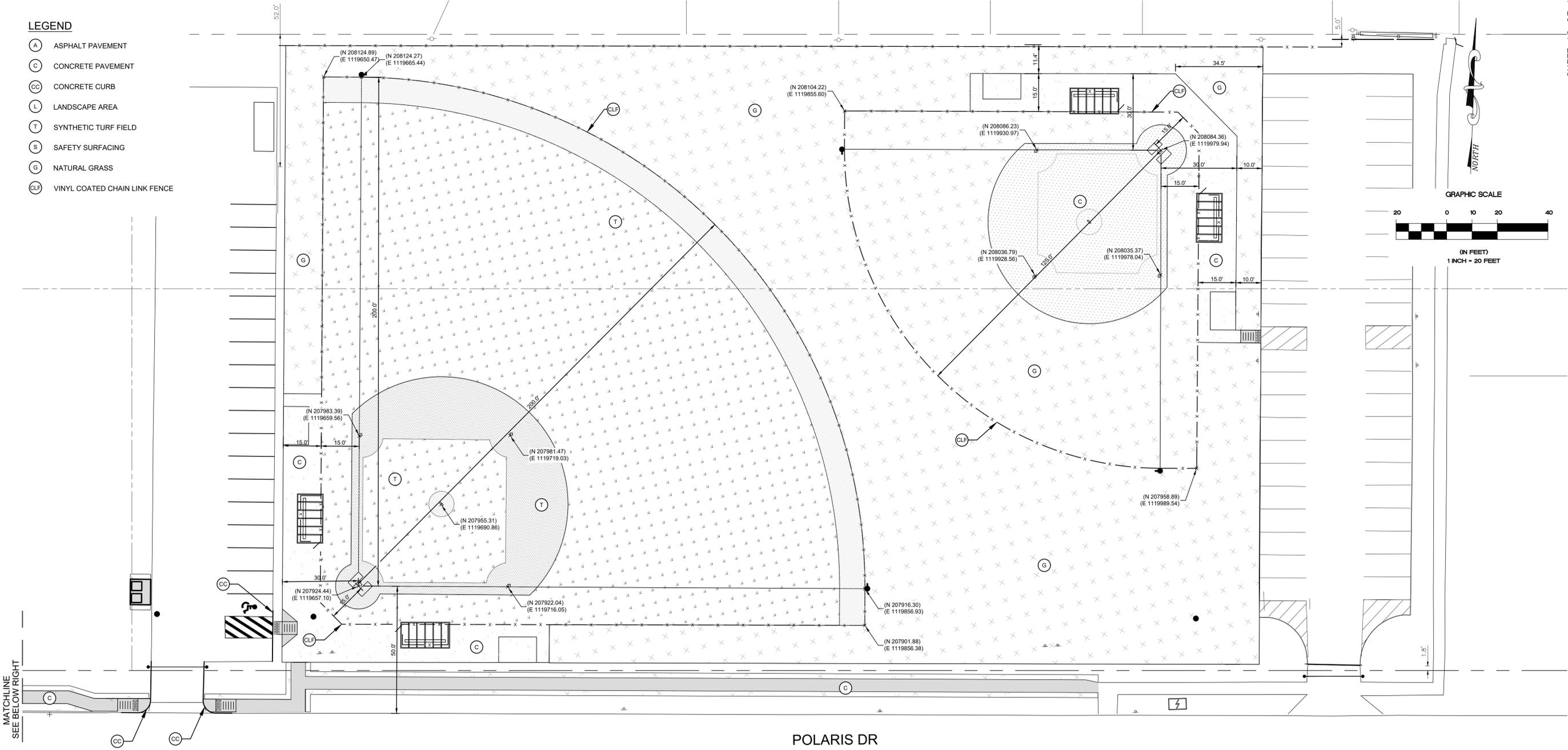
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PROJECT PLAN REVISIONS

No.	DATE	DESCRIPTION	BY

LEGEND

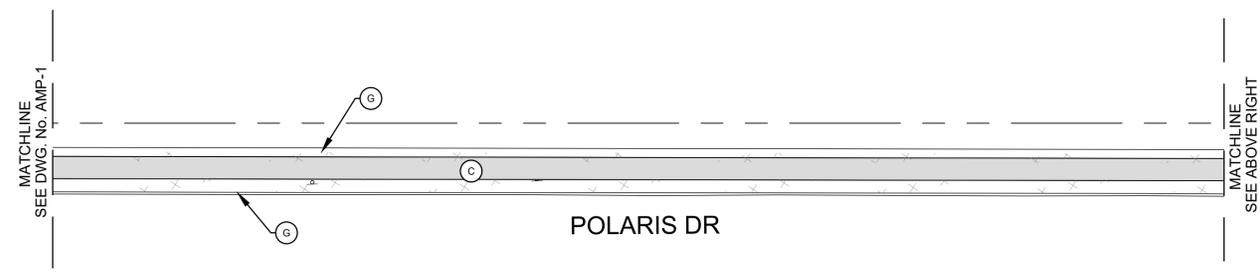
- (A) ASPHALT PAVEMENT
- (C) CONCRETE PAVEMENT
- (CC) CONCRETE CURB
- (L) LANDSCAPE AREA
- (T) SYNTHETIC TURF FIELD
- (S) SAFETY SURFACING
- (G) NATURAL GRASS
- (CLF) VINYL COATED CHAIN LINK FENCE



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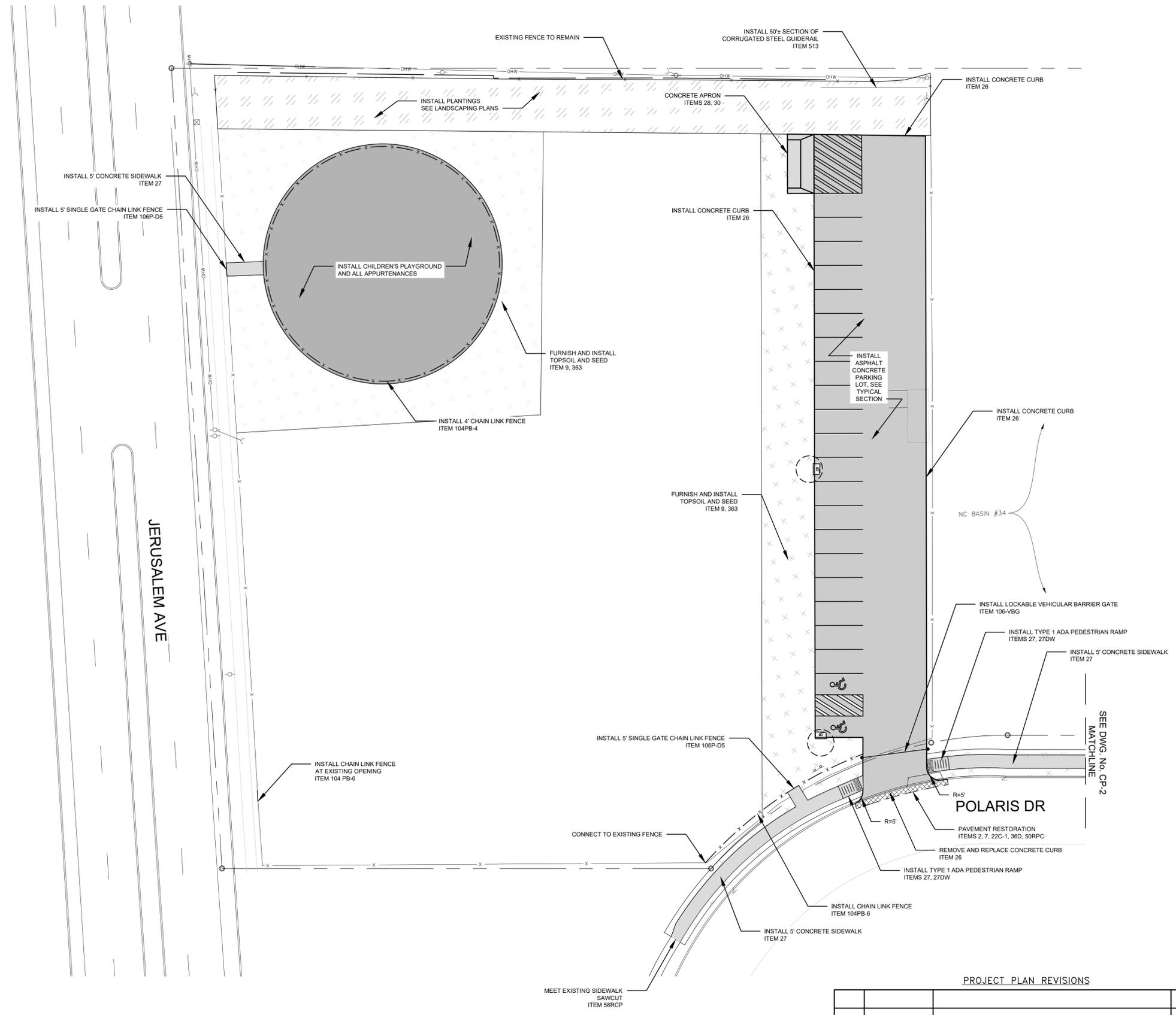
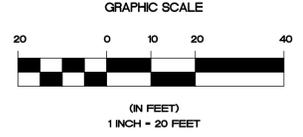
NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

ALIGNMENT AND MATERIALS PLAN - 2
NASSAU COUNTY, NEW YORK
TASK ORDER 41-2019, CONTRACT No. H61001-10C6
SCALE: N.T.S. DWG. No. AMP-2 DATE: AUGUST 2023

PROJECT PLAN REVISIONS

No.	DATE	DESCRIPTION	BY

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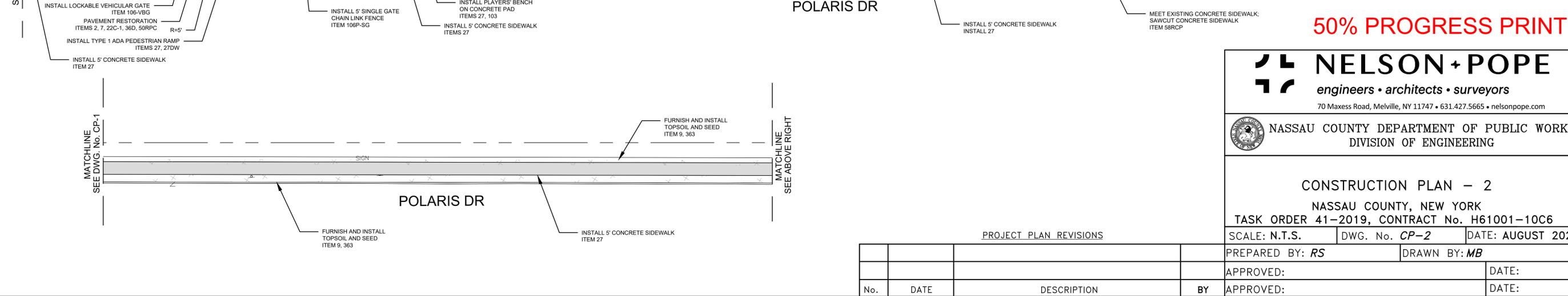
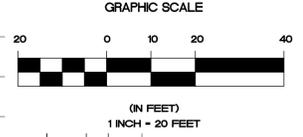
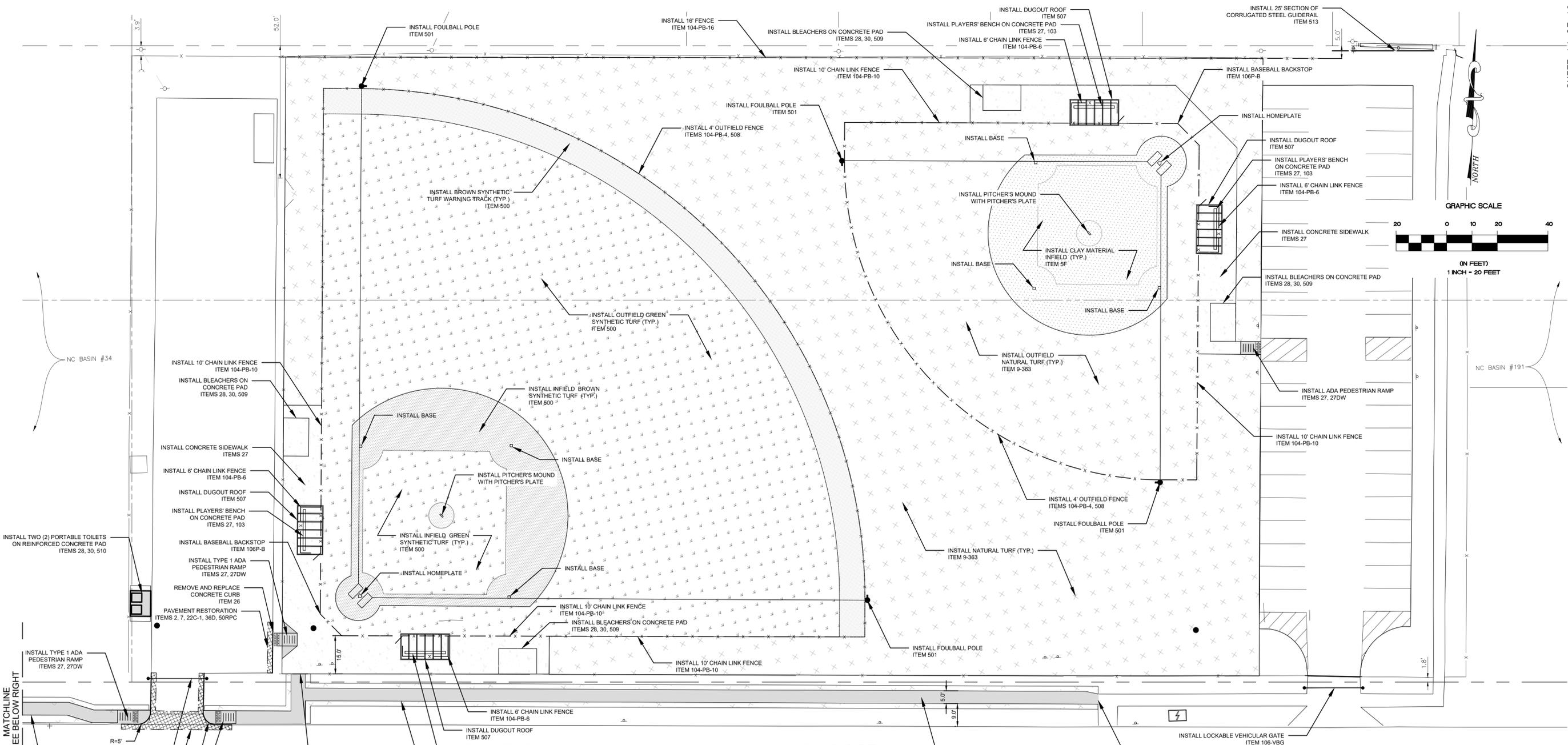
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CONSTRUCTION PLAN - 1
NASSAU COUNTY, NEW YORK
TASK ORDER 41-2019, CONTRACT No. H61001-10C6
SCALE: N.T.S. DWG. No. CP-1 DATE: AUGUST 2023

No.	DATE	DESCRIPTION	BY

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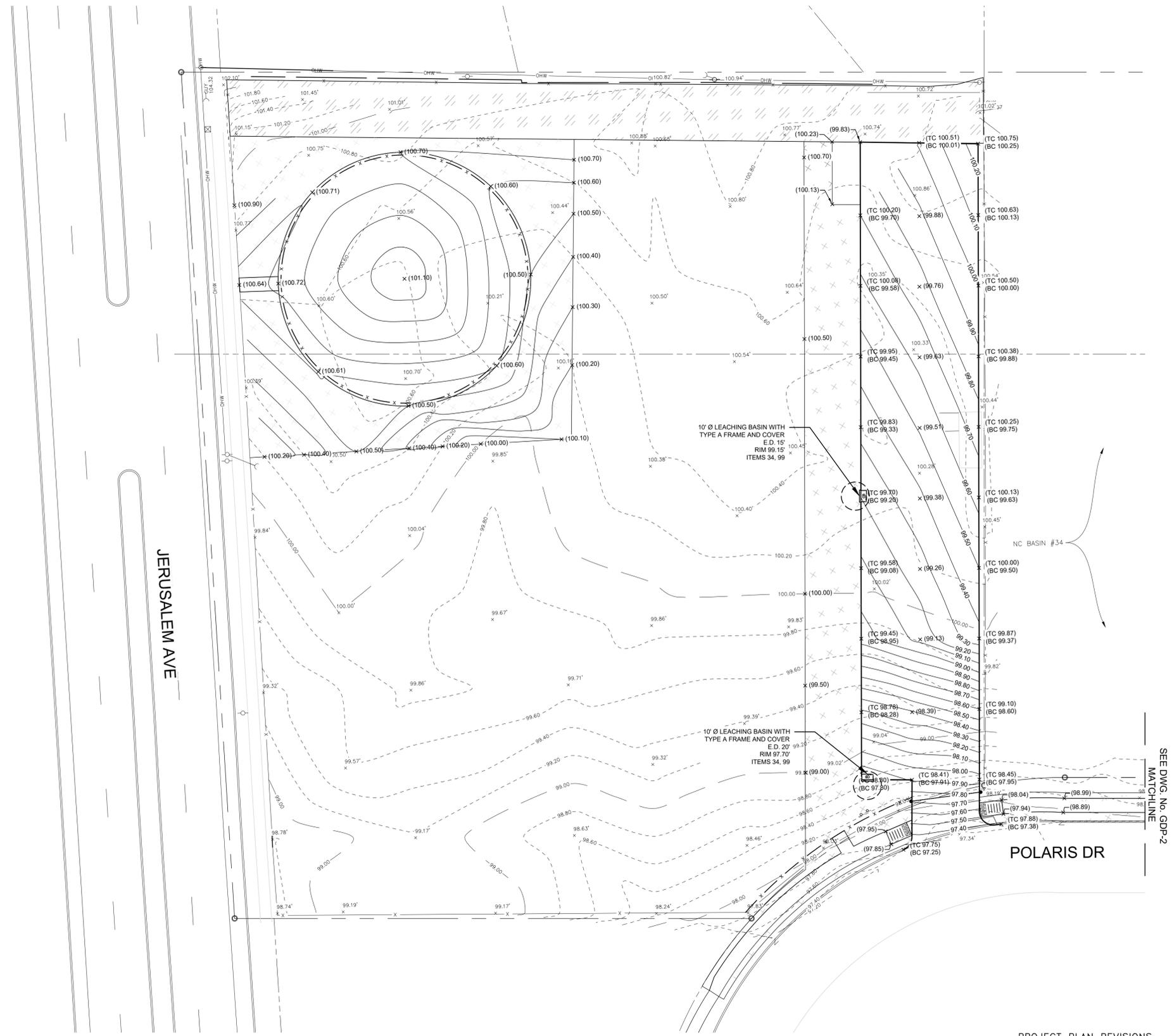
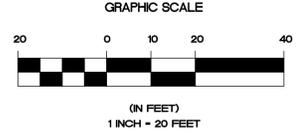
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CONSTRUCTION PLAN - 2
 NASSAU COUNTY, NEW YORK
 TASK ORDER 41-2019, CONTRACT No. H61001-10C6
 SCALE: N.T.S. DWG. No. CP-2 DATE: AUGUST 2023

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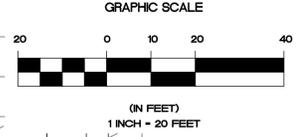
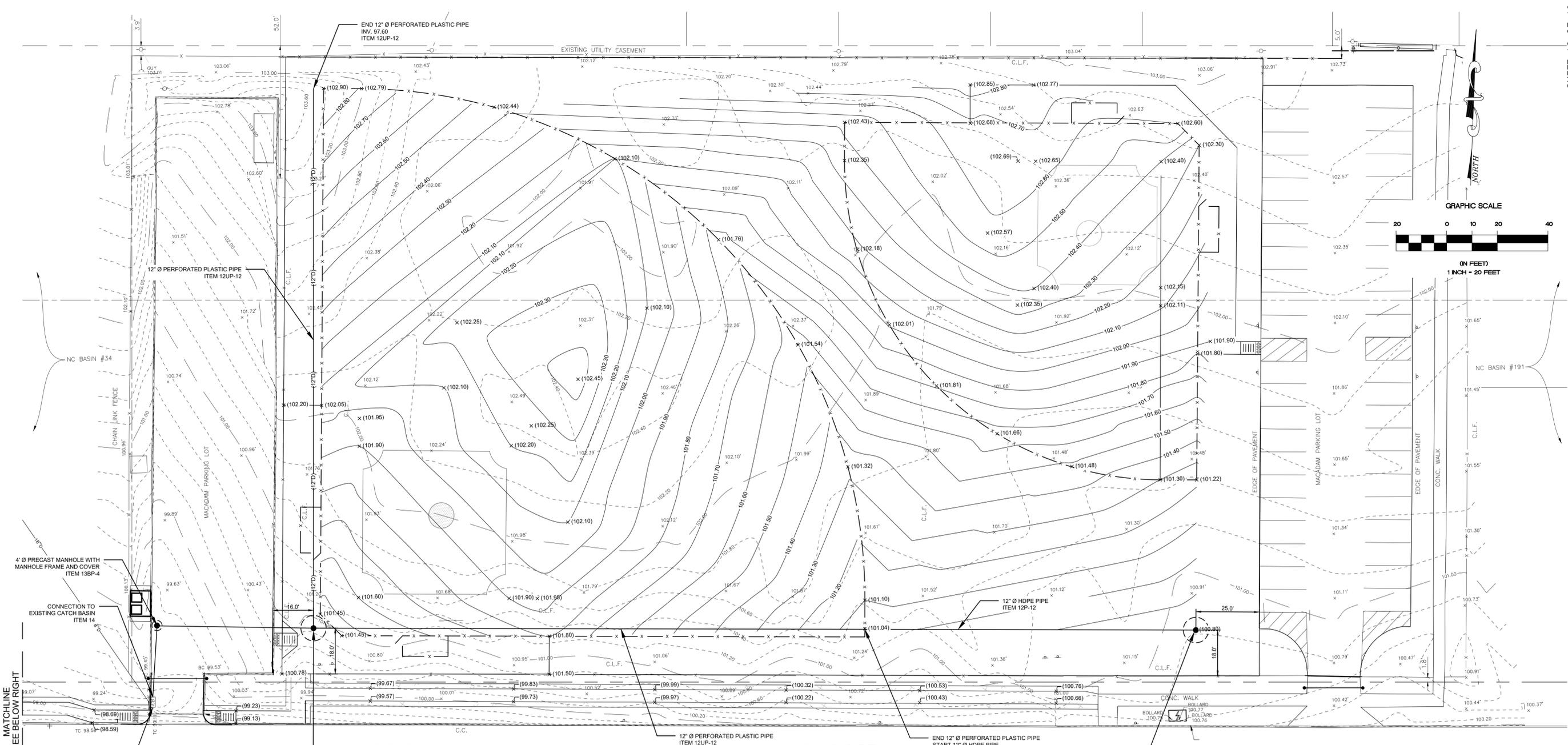
 NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS
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GRADING AND DRAINAGE PLAN - 1
NASSAU COUNTY, NEW YORK
TASK ORDER 41-2019, CONTRACT No. H61001-10C6
SCALE: N.T.S. DWG. No. *GDP-1* DATE: AUGUST 2023

PROJECT PLAN REVISIONS

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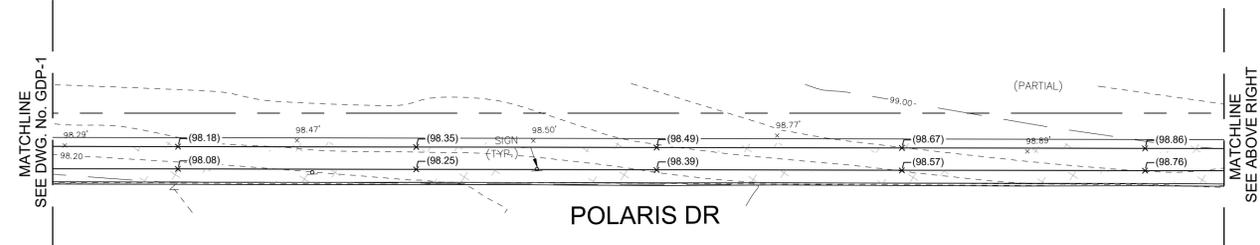
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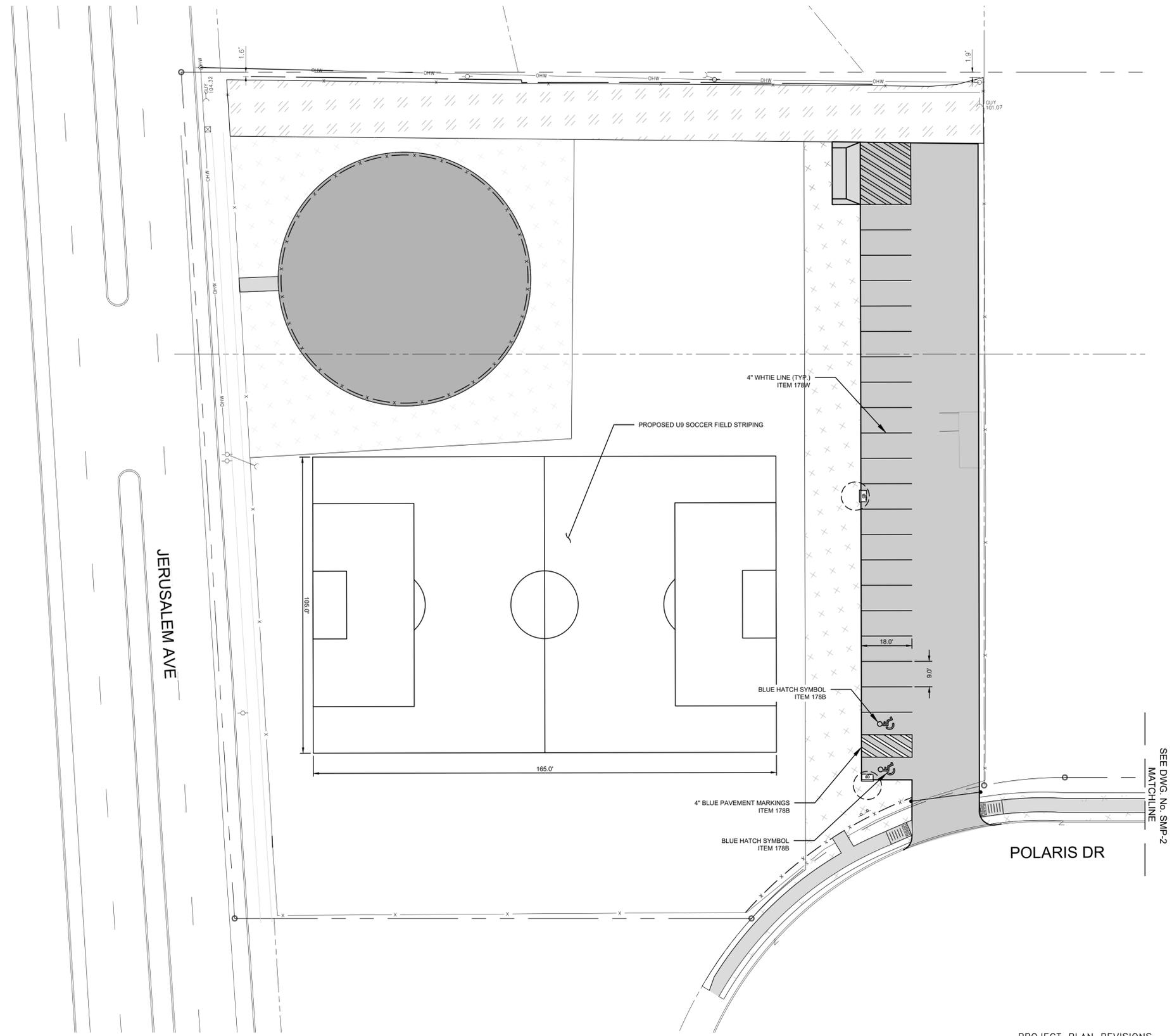
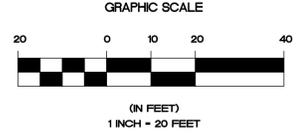
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DIVISION OF ENGINEERING

GRADING AND DRAINAGE PLAN - 2
NASSAU COUNTY, NEW YORK
TASK ORDER 41-2019, CONTRACT No. H61001-10C6
SCALE: N.T.S. DWG. No. GDP-2 DATE: AUGUST 2023

PROJECT PLAN REVISIONS			
No.	DATE	DESCRIPTION	BY

PREPARED BY: RS	DRAWN BY: MB
APPROVED:	DATE:
APPROVED:	DATE:



PLOT: 230823-14.08 | DIR: G:\PROJECTS\22229 DWG ROADWAY\22229_CP_VETERANS.DWG_SMP-1 | DST: ROADWAY (PDF).PC3 | PST: _ROADWAY - STANDARD.CTB | PLOT: 1:1 | BY: MB

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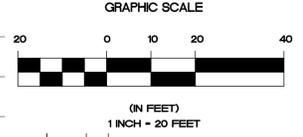
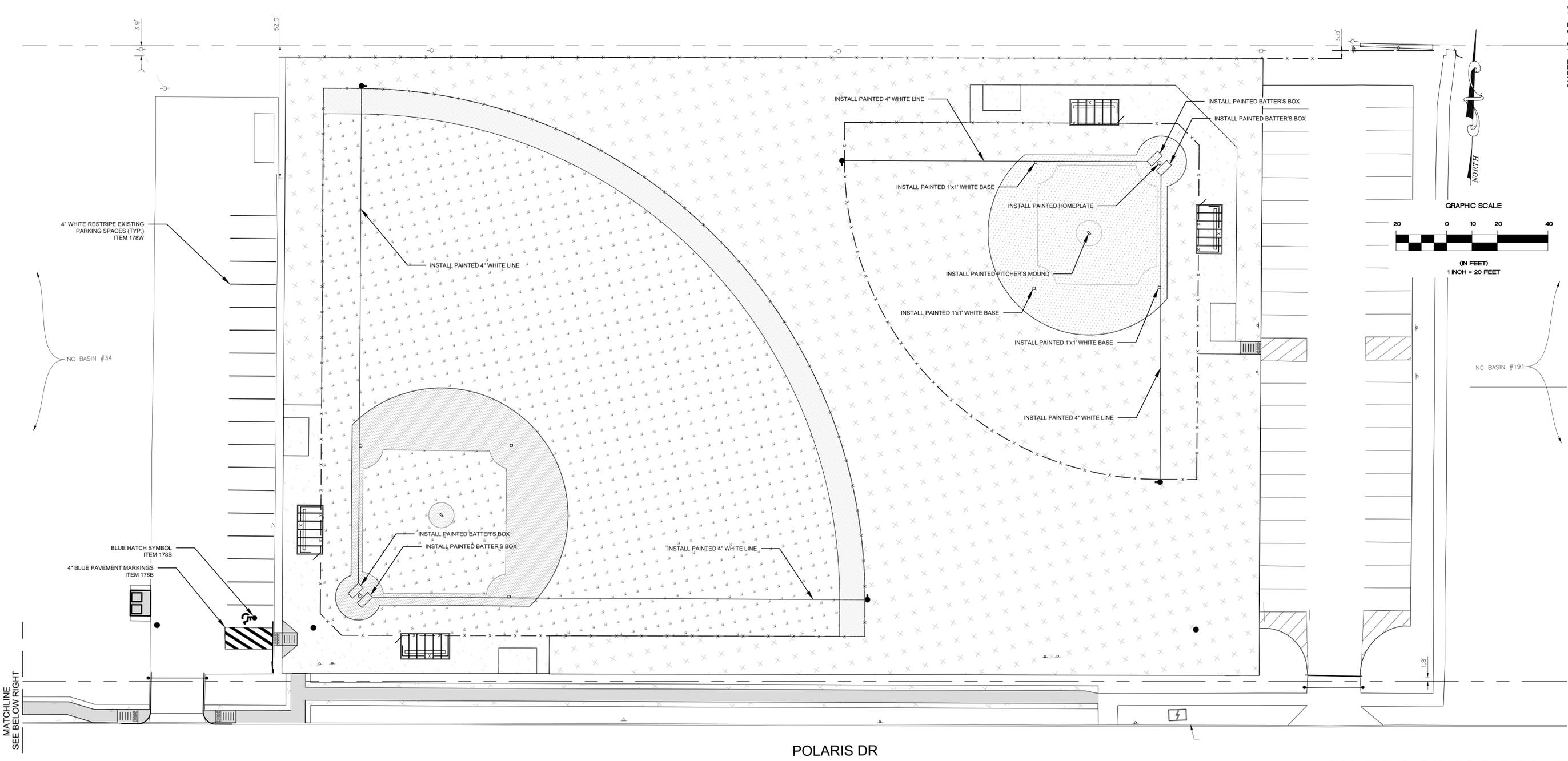
SIGNING AND MARKING PLAN - 1
 NASSAU COUNTY, NEW YORK
 TASK ORDER 41-2019, CONTRACT No. H61001-10C6

SCALE: N.T.S. | DWG. No. **SMP-1** | DATE: AUGUST 2023

PREPARED BY: **RS** | DRAWN BY:

APPROVED: | DATE:

PROJECT PLAN REVISIONS			
No.	DATE	DESCRIPTION	BY



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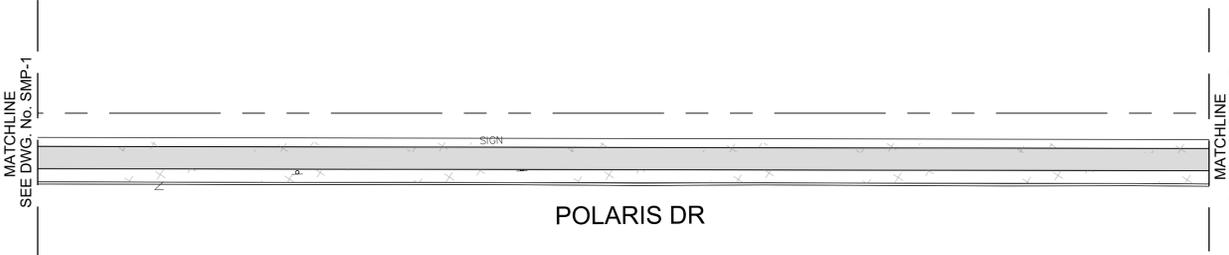

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SIGNING AND MARKING PLAN - 2
 NASSAU COUNTY, NEW YORK
 TASK ORDER 41-2019, CONTRACT No. H61001-10C6
 SCALE: N.T.S. | DWG. No. **SMP-2** | DATE: AUGUST 2023

PREPARED BY: RS	DRAWN BY: MB
APPROVED:	DATE:
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PROJECT PLAN REVISIONS			
No.	DATE	DESCRIPTION	BY

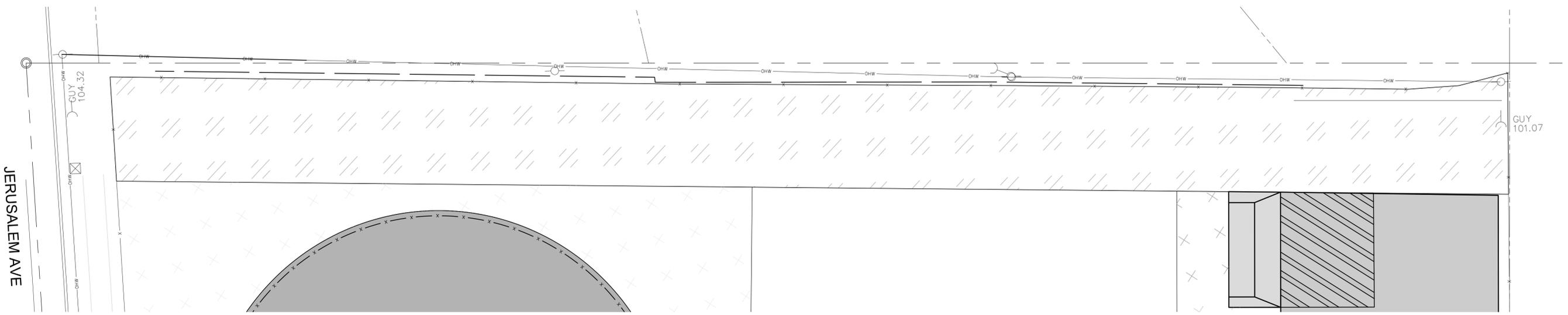
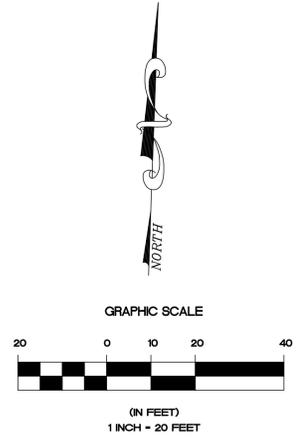


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LANDSCAPING PLAN
 NASSAU COUNTY, NEW YORK
 TASK ORDER 41-2019, CONTRACT No. H61001-10C6
 SCALE: N.T.S. | DWG. No. **SMP-1** | DATE: AUGUST 2023

PROJECT PLAN REVISIONS			
No.	DATE	DESCRIPTION	BY

PREPARED BY: RS	DRAWN BY:
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