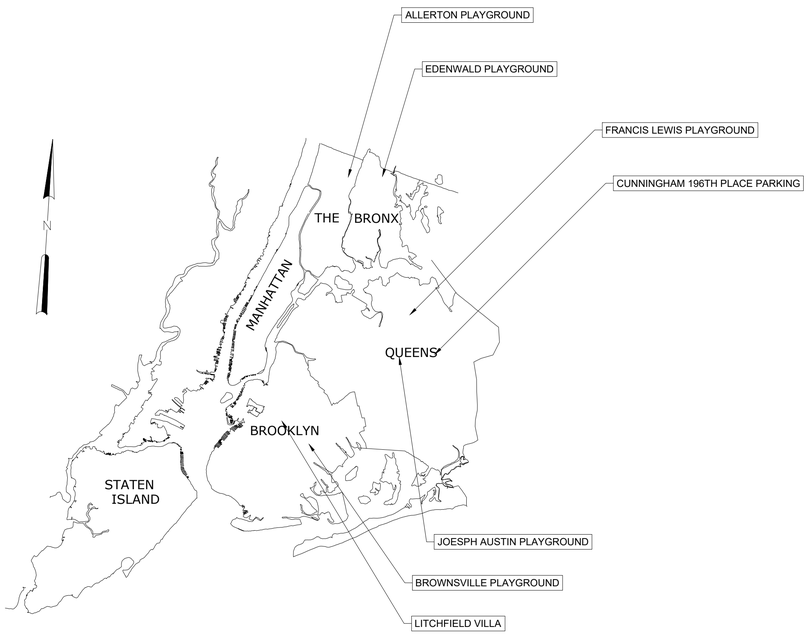
Environmental Protection

NEW YORK CITY ENVIRONMENTAL PROTECTION
BUREAU OF ENVIRONMENTAL PLANNING & ANALYSIS

NYC Parks

ON-SITE GREEN INFRASTRUCTURE
DEP CAPITAL CONTRACT NO. GI-CONS-6
VOLUME 1 - BID SETS
NOVEMBER 2026



PARK NAME	PARK ID	RESPONSIBLE DESIGN FIRM	ADDRESS
ALLERTON PLAYGROUND	X172	ARCADIS	STEDMAN PL & BOUCK AV, BRONX, NY 10469
BROWNSVILLE PLAYGROUND	B270	ARCADIS	BETWEEN MOTHER GASTON BLVD, HEGEMAN AVE AND LINDEN BLVD, BROOKLYN, NY, 11212
FRANCIS LEWIS PLAYGROUND	Q381	ARCADIS	BETWEEN FRANCIS LEWIS AVE, 39TH AVE, AND 42ND AVE, QUEENS, NY, 11361
EDENWALD PLAYGROUND	X165	ARCADIS	SCHIEFFELIN AVENUE BETWEEN 226TH DRIVE S. AND E. 229TH STREET, BRONX, NY, 10466
CUNNINGHAM 196TH PLACE PARKING	Q021	HAZEN	196-00 Union TPKE, FRESH MEADOWS, NY 11366
JOESPH AUSTIN PLAYGROUND	Q391	HAZEN	164-46 84TH AVE, JAMAICA, NY, 11432
LITCHFIELD VILLA	B073	HAZEN	95 PROSPECT PARK W, BROOKLYN, NY, 11215

John McLaughlin
Digitally signed by John McLaughlin
Date: 2026.11.03 09:22:16 -05'00'

JOHN MCLAUGHLIN
MANAGING DIRECTOR
OFFICE OF ECOSYSTEM SERVICES, GREEN INFRASTRUCTURE AND RESEARCH
BUREAU OF ENVIRONMENTAL PLANNING & ANALYSIS, NYCDEP

Lisa F. Garcia
Digitally signed by Lisa F. Garcia
Date: 2026.11.02 15:27:30 -05'00'

LISA F. GARCIA
COMMISSIONER
NYCDEP

SHEET LIST		
SHEET NUMBER (PDF)	**DRAWING NO.**	**SHEET TITLE**
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2	O - 2	TABLE OF CONTENTS
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25	G001	COVER -BROWNSVILLE PLAYGROUND
54	G001	COVER - EDENWALD PLAYGROUND
75	G001	COVER -FRANCIS LEWIS PLAYGROUND
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NYC Parks

CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

SEAL

BLOCK

LOT

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE

DRAWING TITLE
TABLE OF CONTENTS

DESIGNED BY	DRAWN BY	CHECKED BY
J. BRENNAN	D. THOMAS	A. EASON

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	N/A	O-2	GI-CONS-6
	DATE NOV 2026		SHEET No. 2 OF 144 SHEETS

PARK NAME	CONSULTANT	NYC PARKS SITE (7 AM - 5 PM)	JOINTLY OPERATED PLAYGROUND (9AM - 6PM)	RESTRICTED MONTHS FOR CONSTRUCTION WITHIN JOINTLY OPERATED PLAYGROUNDS	
				APRIL-JUNE (PUBLIC ELEMENTARY SCHOOLS)	JANUARY, MARCH - JUNE, AUGUST (PUBLIC HIGH SCHOOL)
ALLERTON PLAYGROUND	ARCADIS		X	X	
BROWNSVILLE PLAYGROUND	ARCADIS	X			
FRANCIS LEWIS PLAYGROUND	ARCADIS		X	X	
EDENWALD PLAYGROUND	ARCADIS		X	X	
CUNNINGHAM 196TH PLACE PARKING	HAZEN	X			
JOESPH AUSTIN PLAYGROUNDS	HAZEN		X		X
LITCHFIELD VILLA	HAZEN	X			

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LOT

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE

DRAWING TITLE
WORK RESTRICTIONS TABLE

DESIGNED BY	DRAWN BY	CHECKED BY
AK	AK	WS/AK

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	N/A		GI-CONS-6
	DATE NOV 2026		SHEET No. 3 OF 144 SHEETS

THE FOLLOWING SHEET SET WAS DEVELOPED BY ARCADIS.
ANY DETAILS WITHIN THIS SHEET SET ARE ONLY APPLICABLE TO THE SITE DESIGNED BY ARCADIS, AS LISTED BELOW.
THE GENERAL NOTES, LEGEND AND ABBREVIATIONS ON THE FOLLOWING SHEETS ARE APPLICABLE ONLY TO THE ALLERTON, AND EDENWALD, SITES AND DO NOT APPLY TO THE BROWNSVILLE SITE, OR FRANCIS LEWIS.

- ALLERTON PLAYGROUND
- BROWNSVILLE PLAYGROUND
- EDENWALD PLAYGROUND
- FRANCIS LEWIS PLAYGROUND

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BLOCK

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PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE

DRAWING TITLE
DIVIDER SHEET - ARCADIS

DESIGNED BY	DRAWN BY	CHECKED BY
AK	AK	WS/AK

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	N/A		**GI-CONS-6**
	DATE NOV2026		SHEET No. 4 OF 144 SHEETS

GENERAL NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK AND VERIFY ALL SITE CONDITIONS, BOTH ABOVE AND BELOW THE SURFACE, PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN INFORMATION SHOWN ON THE DRAWINGS AND ACTUAL FIELD CONDITIONS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING, PRIOR TO THE COMMENCEMENT OF WORK.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS.
3. WORK PERFORMED UNDER THIS CONTRACT SHALL COMPLY WITH APPLICABLE FEDERAL, STATE, AND LOCAL SAFETY AND OCCUPATIONAL HEALTH LAWS AND REGULATIONS. WHERE THE REQUIREMENTS OF THE SPECIFICATIONS, APPLICABLE LAWS, CRITERIA, ORDINANCES, REGULATIONS, AND REFERENCED DOCUMENTS VARY, THE OWNER SHALL BE CONTACTED AND WILL PROVIDE AN INTERPRETATION FOR THE CONTRACTOR.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THEIR WORK AND NEWLY INSTALLED WORK, AND PROVIDE APPROPRIATE BARRIERS AND SAFETY GUARD RAILS, AS REQUIRED.
5. ALL STREETS, ROADWAYS, AND ACCESS AREAS SHALL REMAIN UNOBSTRUCTED DURING CONSTRUCTION. THE NEED TO TEMPORARILY BLOCK OR CLOSE OFF THESE AREAS SHALL BE COORDINATED WITH THE ENGINEER AND NYC DEP. ADDITIONAL COORDINATION AND PERMITTING WITH NYC DOT AND/OR NYPD MAY BE REQUIRED AND IS THE RESPONSIBILITY OF THE CONTRACTOR, PER GENERAL NOTE 9.
6. ALL AREAS OF THE SITE IMPACTED BY TEMPORARY FACILITIES SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER, BY THE CONTRACTOR, AS DETERMINED BY THE ENGINEER.
7. THE CONTRACTOR SHALL MAINTAIN, AT THE JOB SITE, ONE SET OF FULL-SIZE CONTRACT DRAWINGS MARKED TO SHOW ANY DEVIATIONS THAT HAVE BEEN MADE FROM THE CONTRACT DRAWINGS, INCLUDING BURIED OR CONCEALED CONSTRUCTION AND UTILITY FEATURES REVEALED DURING THE COURSE OF CONSTRUCTION. THESE DRAWINGS SHALL BE AVAILABLE FOR REVIEW BY THE ENGINEER AT ALL TIMES. UPON COMPLETION OF THE INSTALLATION OF NEW WORK THE CONTRACTOR SHALL TURN OVER TO OWNER AND ENGINEER ONE (1) SET OF REPRODUCIBLE AS-BUILT DRAWINGS AND ONE (1) SET OF PRINTS OF AS-BUILT DRAWINGS INCLUDING ALL APPROVED FIELD CHANGES AND DESIGN DEVIATIONS PRIOR TO REQUEST FOR FINAL PAYMENT.
8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE NYC DPR DETAILS BEING USED FOR CONSTRUCTION ARE IN THE MOST RECENT VERSION ISSUED.
9. THE CONTRACTOR SHALL FILE PLANS WITH GOVERNING LOCAL AND STATE AUTHORITIES HAVING JURISDICTION AND SHALL SECURE ALL PERMITS AND PAY ALL FEES REQUIRED FOR INSTALLATION OF THEIR WORK, UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR ANY SPECIAL INSPECTIONS REQUIRED, INCLUDING ANY ASSOCIATED COSTS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE APPROPRIATE AGENCIES PRIOR TO COMMENCING WORK.
10. THE CONTRACTOR SHALL INDEMNIFY NYC DEP, THEIR REPRESENTATIVES, AND THE ENGINEER FROM ANY CLAIMS OR SUITS RESULTING FROM NEGLIGENCE ON THE PART OF THE CONTRACTOR FOR FAILING TO EXECUTE THEIR WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
11. WORK SHALL BE PERFORMED BY LICENSED CONTRACTORS AND WORKERS EXPERIENCED IN THE TRADE HAVING JURISDICTION. WORK SHALL BE SUPERVISED AT ALL TIMES.
12. ANY DEVIATION OR CHANGE IN DESIGN SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER. WORK INSTALLED WITHOUT PRIOR APPROVAL OF THE ENGINEER OR NYC DEP OR FOUND TO BE DEFECTIVE OR OF POOR QUALITY SHALL BE REPLACED BY THE CONTRACTOR AT THEIR OWN EXPENSE.
13. ALL CONSTRUCTION WORK SHALL BE CONFINED TO THE CONTRACT LIMIT LINE INDICATED ON THE DRAWINGS.
14. **OPTION 1 (FOR JOP SITES):** ALL WORK SHALL BE PERFORMED DURING NORMAL WORKING HOURS: 9:00 A.M. TO 6:00 P.M. MONDAY THROUGH FRIDAY EXCEPT LEGAL HOLIDAYS OR FOR EMERGENCY REPAIRS, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
   OPTION 2 (FOR REGULAR PARK SITES): ALL WORK SHALL BE PERFORMED DURING NORMAL WORKING HOURS: 7:00 A.M. TO 3:00 P.M. MONDAY THROUGH FRIDAY EXCEPT LEGAL HOLIDAYS OR FOR EMERGENCY REPAIRS, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
   IF OPTION 1 IS CHOSEN, ADD THE FOLLOWING AS NOTE 15 AND RENUMBER THE SUBSEQUENT NOTES:
   15. STATE TESTING OCCURS AT <NAME OF SCHOOL> DURING <DURATION OF TESTING>. NO WORK SHALL OCCUR DURING STATE
15. TESTING UNLESS AUTHORIZED IN BY A SCHOOL REPRESENTATIVE A MINIMUM OF TWO WEEKS IN ADVANCE.WORK AREA SHALL BE LEFT BROOM CLEAN AT THE END OF EACH DAY. DISCARDED AND DEMOLISHED MATERIAL AND RUBBISH SHALL BE REMOVED FROM PREMISES DAILY AND DISPOSED IN A LEGAL AND APPROVED MANNER.
16. ALL WORK SHOWN ON ALL DRAWINGS IS NEW UNLESS OTHERWISE NOTED.
17. THE CONTRACTOR SHALL COORDINATE WITH NYC DEP THE SUPPLY OF TEMPORARY POWER, POTABLE WATER, AND LIGHTING, AS REQUIRED TO PERFORM THE WORK. OBTAINING AND PAYING FOR SUCH TEMPORARY UTILITIES ARE THE CONTRACTOR'S RESPONSIBILITY.
18. STAGING AREA TO BE DESIGNATED PRIOR TO MOBILIZATION AND TO BE APPROVED BY THE ENGINEER AND NYC DEP.
19. CONTRACTOR SHALL COORDINATE AND SCHEDULE CONSTRUCTION ACTIVITIES WITH SITE ACTIVITIES, AS TO NOT INTERFERE WITH NORMAL SITE OPERATION, AND AS REQUIRED TO NOT IMPEDE THE PROGRESS OF RELATED PROJECT WORK.
20. COORDINATION OF ALL WORK UNDER THIS CONTRACT SHALL BE MAINTAINED TO ENSURE THE QUALITY AND TIMELY COMPLETION OF THE WORK.
21. THE CONTRACTOR SHALL PROVIDE TEMPORARY SHEETING AND BRACING IN ALL TRENCHES OR EXCAVATIONS FOR STRUCTURES, WHERE NECESSARY FOR THE PROPER PROTECTION OF PERSONS OR PROPERTY. WHERE THE DEPTH OF EXCAVATION EXCEEDS FIVE (5) FEET, SHEETING AND NECESSARY BRACING MUST BE INSTALLED FOR THE DEPTH EXCEEDING FIVE (5) FEET AND WILL BE PAID FOR UNDER TEMPORARY SHEETING. BENCHED EXCAVATION MAY BE USED TO REDUCE THE AMOUNT OF SHEETING REQUIRED. ALL SHORING WORK SHALL MEET OR EXCEED THE REQUIREMENTS OF THE NEW YORK STATE DEPARTMENT OF LABOR, INDUSTRIAL CODE RULE 23 AND TITLE 29 CODE OF FEDERAL REGULATIONS PART 1926, SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION (OSHA). THE TYPE OF SHEETING AND BRACING SHALL BE SATISFACTORY TO THE ENGINEER AND SUBJECT TO THEIR APPROVAL, BUT THE APPROVAL OF THE ENGINEER OF A METHOD TO BE USED DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY FOR PROTECTION AND SAFETY. WHEN SHEETING IS USED IN TRENCHES OR EXCAVATIONS FOR STRUCTURES OF LESS THAN FIVE (5) FEET IN DEPTH, THE COST OF SUCH SHEETING AND BRACING, UNLESS ORDERED LEFT IN PLACE, SHALL BE INCLUDED IN THE PRICE BID FOR UNCLASSIFIED EXCAVATION, AND PAYMENT WILL BE MADE FOR SUCH EXCAVATION AS SHOWN ON THE DRAWINGS.
22. THE CONTRACTOR SHALL PERFORM ALL CUTTING AND PATCHING REQUIRED TO COMPLETE THE WORK OR TO MAKE ITS PARTS FIT TOGETHER PROPERLY WITHOUT COMPROMISING THE QUALITY OF THE WORK.
23. ADDITIONAL NOTES THAT ARE APPLICABLE TO THIS PROJECT MAY BE FOUND THROUGHOUT THE CONTRACT DRAWINGS.

REMOVAL NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK AND VERIFY ALL SITE CONDITIONS, BOTH ABOVE AND BELOW THE SURFACE, PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN INFORMATION SHOWN ON THE DRAWINGS AND ACTUAL FIELD CONDITIONS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING, PRIOR TO THE COMMENCEMENT OF WORK.
2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS GOVERNING THIS WORK. THE CONTRACTOR SHALL COORDINATE DEMOLITION WITH APPLICABLE AGENCIES, UTILITY COMPANIES, AND/OR SUB-CONTRACTORS.
3. IT IS MANDATORY, AS PER NYS INDUSTRIAL CODE RULE 53, FOR THE CONTRACTOR TO NOTIFY NEW YORK 811, 60 KNICKERBOCKER AVENUE, BOHEMIA NY 11716, TEL. 800.272.4480 PRIOR TO THE START OF WORK. THE ONE-CALL CENTER IS ALWAYS OPEN. THE ONE-CALL CENTER WILL THEN NOTIFY MEMBER FIRMS WITH OPERATIONS IN THE SITE AREA OF THE CONTRACTOR'S PENDING EXCAVATION OPERATIONS. THE CONTRACTOR WILL RECEIVE A NOTIFICATION TICKET FROM THE ONE-CALL CENTER WHICH SHOULD BE PRESENTED TO THE ENGINEER AS PROOF OF THE CALL. THERE IS NO CHARGE FOR THIS SERVICE. THIS PROCESS ENSURES THAT UTILITY SERVICE LINES ARE PROPERLY MARKED PRIOR TO EXCAVATION TO MINIMIZE FACILITY DAMAGE, ON THE JOB INJURIES, AND CONTRACTOR'S LIABILITY. IN ADDITION, ALL UNDERGROUND FACILITY OPERATORS IN THE AREA WHO ARE NOT ONE-CALL MEMBERS SHALL BE NOTIFIED NOT LESS THAN TWO (2) FULL BUSINESS DAYS AND NOT MORE THAN TEN (10) FULL BUSINESS DAYS BEFORE COMMENCING EXCAVATION.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY DAMAGE AND/OR RESTORE ANY INTERRUPTION TO ANY UTILITY SERVICE THAT MAY BE CAUSED BY THE CONTRACTOR'S CONSTRUCTION OR EQUIPMENT, AT THE CONTRACTOR'S EXPENSE, WITH NO ADDITIONAL EXPENSE TO THE CITY OF NEW YORK OR UTILITY COMPANY.
5. THE CONTRACTOR IS TO USE CARE DURING CONSTRUCTION TO AVOID DISTURBING OR DAMAGING ADJACENT ABOVE-GRADE OR SUBGRADE STRUCTURES, FACILITIES, CURBS, PAVEMENTS, AND PERIMETER FENCING. ANY DAMAGE RESULTING FROM THIS WORK WILL BE RESTORED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
6. WHERE NEW CONSTRUCTION ABUTS EXISTING PAVEMENTS, CURBS, OR WALLS, THE EXISTING MATERIALS SHALL BE CLEANLY SAWCUT TO PROVIDE A CLEAN, NEAT MATCH AND A SMOOTH, FLUSH TRANSITION, AS DIRECTED BY THE ENGINEER. ALL SAWCUTTING SHALL BE DONE TO NEAT, STRAIGHT, AND ACCURATE LINES. CONTRACTOR SHALL PROVIDE EXPANSION JOINTS (TIE ROD AND/OR SLIP JOINT) WHERE OLD AND NEW CURBS MEET.
7. THE CONTRACTOR SHALL DISPOSE OF ALL ITEMS AND MATERIALS REMOVED AND NOT SALVAGED, INCLUDING ALL EXCAVATED MATERIAL, OFF-SITE AND IN A LEGAL MANNER. THE CONTRACTOR SHALL REMOVE, EXCAVATE, AND DISPOSE OF ALL MATERIALS ACCORDING TO CONTRACT SPECIFICATIONS.
8. ALL EXISTING PIPING TO BE MAINTAINED EXCEPT FOR WITHIN 3 FEET OF PROPOSED DRAINAGE STRUCTURES AND AS SHOWN. IF EXISTING PIPING BEYOND 3 FEET FROM THE PROPOSED STRUCTURES IS OBSERVED TO BE DAMAGED AT NO FAULT OF THE CONTRACTOR, THE ENGINEER SHALL PROVIDE DIRECTION AS TO EXTENTS OF REPLACEMENT.
9. THE CONTRACTOR SHALL TAKE EXTREME CARE TO PROTECT THE ROOT SYSTEMS OF EXISTING TREES. BULK MATERIAL, EQUIPMENT, OR VEHICLES SHALL NOT BE STOCKPILED OR PARKED WITHIN THE TREE PROTECTION ZONE.

LAYOUT & MATERIAL NOTES

1. NO CHANGES SHALL BE MADE TO THE DESIGN OR LAYOUT WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER. LAYOUT THE WORK AS DIMENSIONED ON THE PLANS. WRITTEN DIMENSIONS SHALL GOVERN. DO NOT SCALE DISTANCES.
2. CONTRACTOR SHALL STAKE LOCATION OF ALL GREEN INFRASTRUCTURE PRACTICES FOR APPROVAL BY THE ENGINEER PRIOR TO EXCAVATION WORK.
3. CONTRACTOR SHALL LAYOUT IN THE FIELD THE ALIGNMENT AT ALL PATHS, PAVEMENTS, CURBLINES FOR REVIEW BY THE ENGINEER PRIOR TO THE START OF WORK. ADJUSTMENTS MAY BE MADE ONLY AS DIRECTED BY THE ENGINEER. CONTRACTOR MAY NOT PROCEED WITH CONSTRUCTION OF IMPROVEMENTS UNTIL THEY HAVE RECEIVED THE FINAL APPROVAL OF THE LAYOUT FROM THE ENGINEER.
4. ALL NEW PAVEMENTS AND CURBS AND EXISTING PAVEMENTS AND CURBS TO REMAIN SHALL MEET IN SMOOTH FLUSH CONDITION UNLESS NOTED OTHERWISE.
5. NEW CURBS, WALLS, AND PAVEMENTS SHALL BE BUILT TO A SMOOTH EVEN FINISH WITH A CONSISTENT TOP AND PROFILE WITHOUT WAVES OR IRREGULARITIES. ANY WORK NOT MEETING THIS QUALITY STANDARD SHALL BE RECONSTRUCTED AT THE CONTRACTOR'S EXPENSE.
6. THE CONTRACTOR SHALL EXERCISE CARE DURING EXCAVATION OPERATIONS TO AVOID DISTURBING ADJACENT FACILITIES, SUB GRADE STRUCTURES AND TREES. ALL DAMAGE RESULTING FROM THE CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE REPAIRED AT NO EXPENSE TO THE CITY AND THE AGENCY. ALL REPAIR WORK SHALL BE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
7. IN AREAS WHERE NEW PAVEMENTS FALL WITHIN THE TREE PROTECTION ZONE OF EXISTING TREES, THE CONTRACTOR SHALL MINIMIZE EXCAVATIONS AT TREE ROOTS BY REDUCING THE AMOUNT OF FOUNDATION MATERIAL AS DIRECTED BY THE ENGINEER.
8. CONTRACTOR SHALL REFER TO NYC DEP'S NYC GREEN INFRASTRUCTURE ON-SITE DESIGN MANUAL (MAY 2019) FOR THE CONSTRUCTION OF ALL GREEN INFRASTRUCTURE PRACTICES.

TREE PROTECTION NOTES

1. NO LAND DISTURBANCE, DEMOLITION, OR CONSTRUCTION ACTIVITIES SHALL BEGIN UNTIL ALL TREE PROTECTION MEASURES HAVE BEEN INSTALLED AS SHOWN ON THE CONTRACT DRAWINGS.
2. CONSTRUCTION ACCESS ROUTE IS DIAGRAMMATIC. FINAL ROUTE SHALL BE ESTABLISHED ON SITE AND APPROVED BY THE RESIDENT ENGINEER, IN CONSULTATION WITH THE BOROUGH FORESTER OR THEIR REPRESENTATIVE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND PRESERVATION OF ALL EXISTING TREES NOT LISTED FOR REMOVAL THAT ARE LOCATED COMPLETELY OR PARTIALLY WITHIN THE CONTRACT LIMIT LINE.
4. THE CONTRACTOR SHALL NOTIFY THE BOROUGH FORESTER A MINIMUM OF 48 HOURS IN ADVANCE OF ANY WORK ON OR IMPACTING EXISTING TREES, INCLUDING BUT NOT LIMITED TO TREE PROTECTION, PRUNING, TREE REMOVAL, EXCAVATION WITHIN TREE PROTECTION ZONES, DECOMPACTION, TOPSOIL, AND PLANTING WORK.
5. THE TREE PROTECTION ZONE (TPZ) SHALL CONSIST OF THE CRITICAL ROOT ZONE AND/OR THE CANOPY DRIPLINE; WHICHEVER EXTENT IS GREATER.
6. THE CONTRACTOR SHALL TAKE EXTREME CARE TO PROTECT THE ROOT SYSTEMS OF EXISTING TREES. MATERIAL, EQUIPMENT, OR VEHICLES SHALL NOT BE STOCKPILED OR PARKED WITHIN THE TPZ OF ANY TREE COMPLETELY OR PARTIALLY WITHIN THE CONTRACT LIMIT LINE TO MINIMIZE SURFACE AND SUBSURFACE ROOT AND SOIL COMPACTION. IF STOCKPILING OCCURS WITHIN THE TPZ, A STOP WORK ORDER SHALL BE ISSUED IMMEDIATELY, AND WORK SHALL NOT RE-COMMENCE UNTIL ALL STOCKPILED MATERIAL IS REMOVED FROM THE TPZ AND MITIGATION MEASURES ARE PERFORMED TO THE SATISFACTION OF THE RESIDENT ENGINEER IN CONSULTATION WITH THE BOROUGH FORESTER OR THEIR REPRESENTATIVE.
7. IF DIRECTED, THE TPZ SHALL BE COVERED WITH WOOD CHIPS TO A DEPTH OF AT LEAST SIX (6) INCHES, WITH PLYWOOD OR GROUND PROTECTION MATS, OR A COMBINATION THEREOF. SUCH COVERING SHALL BE MAINTAINED FOR THE DURATION OF THE CONTRACT AND IS NOT TO BE REMOVED UNTIL DIRECTED BY THE BOROUGH FORESTER OR THEIR REPRESENTATIVE. REMOVAL SHALL BE BY HAND OR AS SPECIFIED BY THE BOROUGH FORESTER OR THEIR REPRESENTATIVE (ITEM "PROTECT EXIST. TREE ROOTS W/ WOOD CHIPS 6" DEPTH" AND "PROTECT EXIST. TREE ROOTS W/ PLYWOOD").
8. TEMPORARY WOODEN TREE GUARDS WITH WRAP FOR INDIVIDUAL TREES, TEMPORARY WOODEN TREE GUARD FOR GROVES, AND TEMPORARY SNOW FENCE BOUNDARY SHALL BE MAINTAINED FOR THE DURATION OF THE CONTRACT AND ARE NOT TO BE REMOVED UNTIL DIRECTED BY THE BOROUGH FORESTER OR THEIR REPRESENTATIVE.
9. ALL TREES COMPLETELY OR PARTIALLY WITHIN THE CONTRACT LIMIT LINE ARE TO RECEIVE AT LEAST ONE (1) INCH (THE EQUIVALENT OF 750 GALLONS OF WATER PER 1,000 SQUARE FEET OF TREE PROTECTION ZONE) OF WATER PER WEEK BETWEEN THE MONTHS OF MARCH AND OCTOBER. IF RAINWATER IN ANY GIVEN WEEK IS BELOW THIS QUANTITY, THE CONTRACTOR MUST SUPPLEMENT THE AMOUNT RECEIVED BY A METHOD APPROVED BY THE BOROUGH FORESTER OR THEIR REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
10. ALL TREE PRUNING AND TREE REMOVAL IS TO BE PERFORMED IN ACCORDANCE WITH ANSI A300 STANDARDS BY AN ARBORIST HOLDING CERTIFICATION FROM THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) OR EQUIVALENT EDUCATION AND EXPERIENCE. ANSI PRUNING TYPES SPECIFIED ON TREE PROTECTION SCHEDULE AND TREE DIAMETERS AT BREAST HEIGHT ARE TO BE CONFIRMED BY THE BOROUGH FORESTER OR THEIR REPRESENTATIVE BEFORE PRUNING WORK IS PERFORMED.
11. THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN REMOVING CONCRETE OR ASPHALT WITHIN THE DRIPLINE OF EXISTING TREES - LIFTING RATHER THAN DRAGGING PIECES OF PAVING. TOOLS FOR THIS ACTIVITY SHALL BE APPROVED BY THE BOROUGH FORESTER OR THEIR REPRESENTATIVE PRIOR TO THE START OF EXCAVATION.
12. ALL EXCAVATION AND PLANT INSTALLATION WITHIN THE TPZ SHALL BE PERFORMED BY HAND OR PNEUMATICALLY, WITH MINIMAL SOIL DISTURBANCE, AND UNDER THE SUPERVISION OF THE BOROUGH FORESTER OR THEIR REPRESENTATIVE. PLANTS SHALL NOT BE PLACED WITHIN THREE (3) FEET OF THE TREE TRUNK UNLESS APPROVED.
13. NO ROOTS SHALL BE CUT WITHOUT THE WRITTEN AUTHORIZATION OF THE BOROUGH FORESTER OR THEIR REPRESENTATIVE.
14. EXCAVATED AREAS WITHIN THE TPZ SHALL BE BACKFILLED IMMEDIATELY OR ROOTS SHALL BE KEPT CONSTANTLY MOIST WITH BURLAP COVERED WITH WHITE PLASTIC AND CHECKED A MINIMUM OF TWO (2) TIMES A DAY, ONCE IN THE MORNING AND ONCE IN THE AFTERNOON, FOR A MAXIMUM OF FORTY-EIGHT (48) HOURS, UNTIL BACKFILL IS COMPLETE. IF DIRECTED, SOAKER HOSES SHALL BE INSTALLED TO FACILITATE PROPERLY MOIST CONDITIONS. NO POOLING OF OR CONTINUOUS RUNNING WATER SHALL OCCUR WITHIN THE TPZ OTHER THAN THAT DURING THE IRRIGATION PROCESS. IF ROOTS ARE TO BE EXPOSED FOR A PERIOD GREATER THAN 48-HOURS, THE EXPOSED AREA SHALL BE COVERED WITH AT LEAST 6-INCHES OF MULCH AND MAINTAINED DURING THE COURSE OF CONSTRUCTION UNTIL THE AREA CAN BE PROPERLY BACKFILLED.
15. WHEN A TREE PROTECTION DEFICIENCY, AS DETERMINED BY THE BOROUGH FORESTER OR THEIR REPRESENTATIVE, IS IDENTIFIED, IT MUST BE REMEDIED WITHIN 24-HOURS OF NOTIFICATION BY THE AGENCY. FAILURE TO CORRECT THE DEFICIENCY WITHIN THIS TIMEFRAME WILL RESULT IN A STOP WORK ORDER, LIQUIDATED DAMAGES, OR BOTH.
16. ANY DAMAGE TO EXISTING TREES DURING CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL MITIGATE SUCH DAMAGE AS DIRECTED BY THE BOROUGH FORESTER OR THEIR REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
17. THE CONTRACTOR SHALL BE ASSESSED RESTITUTION, AS SOLELY DETERMINED BY THE DEPARTMENT OF PARKS AND RECREATION (NYCDPR), FOR TREES THAT ARE INJURED, IRREPARABLY DAMAGED, DESTROYED, OR REMOVED WITHOUT AUTHORIZATION.

DRAINAGE NOTES

1. ALL PROPOSED DRAINAGE WORK SHALL BE DONE IN CONFORMANCE WITH THE LATEST STANDARDS OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION (NYCDEP) AND THE LATEST STANDARDS OF THE DEPARTMENT OF PARKS AND RECREATION (NYCDPR). DISCREPANCIES BETWEEN THE STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
2. ALL EXISTING SEWER MANHOLES TO BE RETAINED WITHIN THE CONTRACT LIMIT LINE SHALL BE ADJUSTED AS NECESSARY, SO THAT THEY WILL BE FLUSH WITH THE FINISHED GRADES AFTER COMPLETION OF THE WORK. ANY OF THESE MANHOLES WHICH HAVE DAMAGED, WORN OR NON-STANDARD FRAMES AND COVERS SHALL BE PROVIDED WITH NEW 27" DIA. CASTINGS IN ACCORDANCE WITH THE LATEST STANDARDS OF NYC PARKS INCLUDING ANY NECESSARY MODIFICATIONS OF THE MANHOLE MASONRY. ANY DAMAGE TO THE MANHOLES CAUSED BY THIS WORK SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR, AS DIRECTED BY THE ENGINEER, AND AT NO COST TO THE CITY.
3. CARE SHALL BE TAKEN NOT TO DAMAGE EXISTING SEWERS DURING CONSTRUCTION. ANY DAMAGE CAUSED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER, AT NO EXTRA COST TO THE CITY.
4. WHERE THE HEIGHT OF AN EXISTING MANHOLE PERMITS MORE THAN ONE BASIN CONNECTION TO BE MADE ON THE SAME WALL, SPECIAL PRECAUTION SHALL BE TAKEN TO PROTECT THE STRUCTURAL INTEGRITY OF THE MANHOLE. THE MINIMUM CLEARANCE BETWEEN THE OUTSIDE WALLS OF ANY TWO BASIN CONNECTIONS OR BETWEEN A BASIN CONNECTION AND A SEWER, VERTICALLY OR HORIZONTALLY, SHALL BE 12 INCHES.
5. THE COST OF RAISING OR LOWERING CITY-OWNED MANHOLES, BASINS AND INLET HEADS TO PROPOSED GRADES WILL BE DEEMED INCLUDED IN THE PRICES BID FOR ALL THE SCHEDULED ITEMS WHEN THE VERTICAL UPWARD MOVEMENT OF ALL HEADS IS TWENTY-FOUR (24) INCHES OR LESS, WHEN THE VERTICAL DOWNWARD MOVEMENT OF MANHOLE HEADS IS SIX (6) INCHES OR LESS AND WHEN THE VERTICAL DOWNWARD MOVEMENT OF BASIN OR INLET HEADS IS THREE (3) INCHES OR LESS, UNLESS OTHERWISE PROVIDED OR DIRECTED, AND WHERE THE ADJUSTMENT IS WITHIN THE BRICK WORK LIMIT. WHEN THE EXISTING STRUCTURE CONSISTS OF A BRICK CHIMNEY OR A CONCRETE ROOF SLAB OR BRICK ON CONCRETE WALLS, THE MAXIMUM ALLOWABLE HEIGHT OF BRICK AFTER ADJUSTMENT SHALL BE TWENTY-FOUR (24) INCHES. ALL OTHER ADJUSTMENTS WILL BE PAID FOR UNDER THE APPROPRIATE MANHOLE, BASIN OR INLET MODIFICATION ITEMS.
6. ALL ABANDONED BASINS, INLETS AND DRAINAGE STRUCTURES AS SHOWN ON THE CONTRACT PLANS ARE TO BE BULK-HEADED AND CUT DOWN TO TWO (2) FEET BELOW THE SUBGRADE AND FILLED WITH COMPACTED CLEAN SAND. BASIN CONNECTIONS NOT REQUIRED SHALL BE PLUGGED AT BOTH ENDS. COST FOR THIS WORK SHALL BE DEEMED INCLUDED IN PRICES BID FOR ALL SCHEDULED ITEMS.
7. CATCH BASINS SHALL NOT, UNDER ANY CIRCUMSTANCES, BE CONNECTED TO SANITARY SEWERS.
8. ALL NEW CATCH BASIN CONNECTIONS SHALL BE CONNECTED TO EXISTING SEWERS AT MANHOLES, WITH DUCTILE IRON PIPE, CLASS 56, WITH INTERNALLY LOCKED "PUSH-ON" JOINTS LAID ON 6" OF BROKEN STONE FOR THE ENTIRE WIDTH OF THE TRENCH AND FOR ONE-HALF THE PIPE DIAMETER. THE BROKEN STONE SHALL BE HARD UNWEATHERED STONE UNIFORMLY GRADED FROM 1/4" TO 3/4"IN DIAMETER. IT SHALL CONFORM TO COMMERCIAL 1/4" TO 3/4" STONE. ALL NEW CATCH BASINS SHALL HAVE A HOOD ON THE OUTLET PIPE.
9. SLOPE ON ALL NEW CATCH BASIN CONNECTIONS SHALL BE A MINIMUM OF 1/2% AND A MAXIMUM OF 4% PROVIDED THE TOTAL DROP BETWEEN THE BASIN AND THE BASIN/MANHOLE IS AT LEAST 6 INCHES.
10. CATCH BASINS IN THE PROJECT AREA SHALL BE MAINTAINED OPERABLE AT ALL TIMES. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO AVOID FILLING THE CATCH BASINS WITH DEBRIS WITHIN THE CONTRACT LIMIT LINE DURING THE CONTRACT OPERATIONS. IF, AS A RESULT OF CONSTRUCTION, A FLOODING CONDITION OCCURS, OR IN THE EVENT THE CONTRACTOR'S OPERATIONS DAMAGE OR BLOCK THE DRAINAGE SYSTEM, THE CONTRACTOR SHALL AT THEIR OWN EXPENSE IMMEDIATELY REPAIR OR RESTORE THE DRAINAGE SYSTEM AS DIRECTED BY THE ENGINEER AT NO EXTRA COST TO THE CITY.
11. CONTRACTOR SHALL PROVIDE TEMPORARY MEANS (PIPES, PUMPS, ETC.) TO DRAIN ANY STORMWATER WHICH MAY DEVELOP WITHIN THE CONTRACT LIMIT LINE FOR THE DURATION OF CONSTRUCTION. CONTRACTOR SHALL SUBMIT A DRAINAGE SCHEME WHICH MUST BE APPROVED BY THE ENGINEER PRIOR TO THE START OF EACH CONSTRUCTION STAGE. COST OF THIS WORK WILL BE DEEMED TO HAVE BEEN INCLUDED IN THE PRICE BID FOR ALL SCHEDULED ITEMS.
12. ALL EXISTING SEWERS AND SEWER HOUSE CONNECTIONS SHALL BE CONTINUOUSLY MAINTAINED DURING CONSTRUCTION BY THE CONTRACTOR. IF ANY SEWER OR SEWER HOUSE CONNECTION IS TO BE DISCONNECTED FOR CONSTRUCTION PURPOSES, FLOW SHALL BE MAINTAINED BY FLUMING OR OTHER SUITABLE MEANS AS DIRECTED BY THE ENGINEER AND IN SUCH A MANNER THAT NO BACK-UPS OCCUR. EXISTING SEWERS, HOUSE CONNECTIONS OR OTHER SEWER APPURTENANCES WHICH ARE TO REMAIN, AND WHICH MIGHT BE DISTURBED FOR CONSTRUCTION PURPOSES, SHALL BE RESTORED TO THEIR PRESENT CONDITION AFTER COMPLETION OF THE WORK, AND ANY DAMAGE DONE AS A RESULT OF THE WORK SHALL BE REPAIRED AT NO EXTRA COST TO THE CITY.

EROSION AND SEDIMENT CONTROL NOTES

1. NO LAND DISTURBANCE, DEMOLITION OR CONSTRUCTION ACTIVITIES SHALL BEGIN UNTIL ALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES, INCLUDING, BUT NOT LIMITED TO, SILT FENCING, INLET PROTECTION, AND TREE PROTECTION HAVE BEEN INSTALLED AS SHOWN ON THE CONTRACT DRAWINGS. IF CLEARING IS REQUIRED FOR INSTALLATION OF A PARTICULAR MEASURE, ALL MEASURES NOT REQUIRING CLEARING SHALL BE INSTALLED FIRST. CLEARING OF THE NECESSARY LAND FOR INSTALLATION OF THE PARTICULAR MEASURE MAY THEN PROCEED.
2. DUE TO THE NATURE OF THE WORK REQUIRED BY THIS CONTRACT, IT IS ANTICIPATED THE LOCATION AND NATURE OF EROSION AND SEDIMENT CONTROL MEASURES WILL BE ADJUSTED AS CONSTRUCTION PROGRESSES TO REFLECT THE CURRENT PHASE OF WORK. THE CONSTRUCTION SCHEDULE ADOPTED BY THE CONTRACTOR WILL IMPACT THE PLACEMENT AND NEED FOR SPECIFIC DEVICES REQUIRED FOR THE CONTROL OF EROSION. THE LOCATION AND EXTENT OF EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REVISED AT EACH PHASE OF CONSTRUCTION RESULTING IN A CHANGE OF EITHER THE QUANTITY OR DIRECTION OF SURFACE RUNOFF FROM THE CONSTRUCTION AREAS.
3. INLET PROTECTION IS REQUIRED FOR ALL CATCH BASINS AND MANHOLES WITH OPEN GRATES WITHIN THE CONTRACT LIMIT LINE.
4. CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FROM THE ENGINEER AND REGULATORY AGENCIES FOR DEVIATIONS FROM THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
5. CLEARING SHALL BE LIMITED AS MUCH AS POSSIBLE TO AREAS REQUIRED FOR CURRENT CONSTRUCTION ACTIVITIES. MASS CLEARING AND GRADING SHALL BE AVOIDED.
6. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED BY THE ENGINEER WITHIN 24 HOURS FOLLOWING EVERY RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY SEVEN CALENDAR DAYS.
7. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REPAIRED OR REPLACED IMMEDIATELY AS REQUIRED TO MAINTAIN PERFORMANCE OF MEASURE. MEASURES SHALL BE CLEANED WHEN SEDIMENT VOLUME REACHES ½ OF TOTAL VOLUME OF MEASURE. REMOVED SEDIMENT SHALL BE DISPOSED OF IN SUCH A MANNER AND LOCATION AS TO INSURE FURTHER SEDIMENT TRANSPORT DOES NOT OCCUR.
8. CONTRACTOR SHALL INITIATE STABILIZATION MEASURES AS SOON AS PRACTICABLE ON STOCKPILES AND IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. THIS REQUIREMENT DOES NOT APPLY IN THE FOLLOWING INSTANCES:
   a. WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 7TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASED IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE;
   b. WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN FOURTEEN (14) DAYS, TEMPORARY STABILIZATION MEASURES NEED NOT BE INITIATED ON THAT PORTION OF THE SITE.
9. ALL DISTURBED AREAS SHALL DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBANCE ACTIVITIES AND UNTIL FINAL STABILIZATION IS ACHIEVED. SEDIMENT-LADEN GROUNDWATER ENCOUNTERED DURING TRENCHING, BORING, OR OTHER ACTIVITIES SHALL BE PUMPED INTO A SEDIMENT TRAPPING DEVICE PRIOR TO BEING DISCHARGED INTO A STREAM, POND, SWALE, OR CATCH BASIN.
10. SOIL STOCKPILE AND LAYDOWN AREAS SHALL HAVE PERIMETER SEDIMENT CONTROL MEASURES AND TEMPORARY OR PERMANENT STABILIZATION MEASURES INSTALLED AS SOON AS POSSIBLE AND AT COMPLETION OF STOCKPILING AND LAYDOWN ACTIVITIES. STOCKPILE SIDE SLOPES SHALL NOT EXCEED 3H ; 1V UNLESS APPROVED BY ENGINEER. TOP OF STOCKPILE SHALL BE GRADED WITH A MINIMUM 5% SLOPE TO INSURE PROPER DRAINAGE.
11. ALL DISTURBED AREAS, EXCEPT FOR CONCRETE AND PAVED AREAS, SHALL BE FERTILIZED, SEEDED AND MULCHED IN ACCORDANCE WITH THE SPECIFICATIONS AND THE SEEDING SCHEDULE, AND RE-SEEDED AS NECESSARY, TO ESTABLISH AND MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER.
12. ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS SHALL BE PROTECTED TO PREVENT THE DEPOSITION OF MATERIALS ONTO TRAVERSED OFFSITE ROADWAYS. IF MATERIAL IS TRACKED ONTO OFFSITE ROADWAYS, IT SHALL BE REMOVED IMMEDIATELY. DO NOT UTILIZE A WATER HOSE TO CLEAN ROADS UNLESS THE RUNOFF IS DIRECTED TO A PROPERLY DESIGNED AND FUNCTIONING SEDIMENT CONTROL DEVICE. PROPER PRECAUTIONS SHALL BE TAKEN TO ENSURE THAT MATERIALS DEPOSITED ONTO OFFSITE ROADWAYS ARE REMOVED SO THAT THEY DO NOT ENTER YARD INLETS, CATCH BASINS, SEWERS, WETLANDS, SURFACE WATER BODIES, OR ROADSIDE SWALES.
13. WHERE CONCRETE EQUIPMENT WASHING IS REQUIRED, THIS MUST BE DONE IN AN APPROVED “CONCRETE CONTAINMENT AREA”. CONTRACTOR SHALL NOT DISCHARGE ANY CONCRETE WASHOUT WATER INTO SEWERS, SURFACE WATER BODIES OR ONTO THE GROUND. ALL WASHOUT WATER MUST BE REMOVED FROM THE SITE(S) DAILY.
14. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST NEW YORK STATE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL.
15. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE, PERMANENT VEGETATION IS ESTABLISHED ON ALL DISTURBED AREAS, AND THE ENGINEER HAS GIVEN PERMISSION FOR REMOVAL.

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Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

SEAL	PROJECT TITLE ON-SITE GREEN INFRASTRUCTURE		
	DRAWING TITLE GENERAL NOTES		
	DESIGNED BY AK	DRAWN BY AK	CHECKED BY WS/AK
BLOCK 4905	B-SCAN	SCALE ---- DATE NOV 2026	DRAWING NO. G002	CONTRACT NO. GI-CONS-6
LOT 500			SHEET No.5 OF 144 SHEETS

ABBREVIATIONS

AS PER RECORD	(A)
ASPHALT	ASPH.
BOTTOM OF CURB	B.C.
BOTTOM OF WALL	B.W.
CAST IRON	C.I.
CATCH BASIN	C.B.
CHAIN LINK FENCE	C.L.F
COMBINED	COMB.
CONCRETE	CONC.
CONCRETE CURB	C.C.
CONCRETE SIDEWALK	C.S.W.
CONSTRUCTION LIMIT LINE	C.L.L.
COPPER TUBING	C.T.
CRITICAL ROOT ZONE	C.R.Z.
DROP CURB	D.C.
DIAMETER	DIA.
DUCTILE IRON PIPE	D.I.P.
ELEVATION	ELEV.
EXISTING	EXIST.
EXTRA STRENGTH STEEL PIPE	E.S.S.P.
EXTRA STRENGTH VITRIFIED PIPE	E.S.V.P.
FROM RECORD PLAN	F.R.P.
GRANITE CURB	GRAN C.
HIGH DENSITY POLYETHYLENE	H.D.P.E.
INNER DIAMETER	I.D.
INVERT	INV.
LINED CAST IRON PIPE	L.C.P.
METAL FENCE	M.F.
OUTER DIAMETER	O.D.
ON CENTER	O.C.
MANHOLE	M.H.
NOT TO SCALE	N.T.S.
PAVERS	PAV.
PERFORATED POLYETHYLENE CORRUGATED PIPE	P.P.C.P.
PIPE RAIL FENCE	P.R.F
POLYETHYLENE CORRUGATED PIPE	P.C.P.
POLYVINYL CHLORIDE PIPE	P.V.C.
REINFORCED CONCRETE PIPE	R.C.P.
SANITARY	SAN.
SEWER	SWR.
STEEL FACED CURB	S.F.C.
STEEL WICKET FENCE	S.W.F.
STORM	STM.
TOP OF CURB	T.C.
TOP OF HOOD	T.O.H.
TOP OF WALL	T.W.
TREE PROTECTION ZONE	T.P.Z.
UNKNOWN	UNK.
VITRIFIED TILE PIPE	V.T.P.
WROUGHT IRON FENCE	W.I.F.

	EXISTING	PROPOSED
ELECTRIC MANHOLE	E E	E E
TELEPHONE MANHOLE	T	T
GAS MANHOLE	G	G
WATER MANHOLE	W	W
FIRE DEPT. MANHOLE	F	F
STORM SEWER MANHOLE	S STM	S STM
COMBINED SEWER MANHOLE	S COMB	S COMB
SANITARY SEWER MANHOLE	S SAN	S SAN
UNIDENTIFIED MANHOLE (NO RECORD AVAILABLE)	MH	MH
RECORD MANHOLE	S	S
HARDWARE RIM EL. & INV. EL. (SEWER, ETC.)	S 61.23 INV.47.89	S 61.23 INV.47.89
CATCH BASIN		
INLET		
YARD DRAIN		
LOW PRESSURE HYDRANT		
HIGH PRESSURE HYDRANT		
WOOD UTILITY POLE		
WOOD UTILITY POLE WITH STREET LIGHT		
STREET LIGHT (METAL POLE)		
GAS VALVE	G	G
WATER VALVE	W	W
TREE (SIZE AS LABELED)	12"	7"
SHRUB		
SIGN (GROUND MOUNTED)		
DRINKING FOUNTAIN		
FLAGPOLE		
MAPPED PROPERTY LINE	PL	
WATER SERVICE (WITH SIZE - LESS THAN 5")	1" WATER	1" WATER
8" WATER MAIN	8" WATER	8" WATER
12" WATER MAIN	12" WATER	12" WATER
48" WATER MAIN	48" WATER	48" WATER
72" WATER MAIN	72" WATER	72" WATER
STORM SEWER (WITH SIZE - LESS THAN 24")	15" STM. SEWER	15" STM. SEWER
STORM SEWER (WITH SIZE - 24" OR GREATER)	24" STM. SEWER	24" STM. SEWER
SANITARY SEWER (WITH SIZE - LESS THAN 24")	15" SAN. SEWER	15" SAN. SEWER
SANITARY SEWER (WITH SIZE - 24" OR GREATER)	24" SAN. SEWER	24" SAN. SEWER
COMBINED SEWER (WITH SIZE - LESS THAN 24")	15" COMB. SEWER	15" COMB. SEWER
COMBINED SEWER (WITH SIZE - 24" OR GREATER)	24" COMB. SEWER	24" COMB. SEWER
GAS LINE (WITH SIZE)	4" GAS	4" GAS
ELECTRIC	ELECTRIC	ELECTRIC
TELEPHONE	TELEPHONE	TELEPHONE
CABLE	CABLE	CABLE
FIRE ALARM	FIRE ALARM	FIRE ALARM
OVERHEAD (AERIAL) UTILITY LINE	A/E,T,F	A/E,T,F
CHAIN LINK FENCE (W/ HEIGHT)	6'	6'
IRON PICKET FENCE (W/ HEIGHT)	5'	5'
WIRE FENCE (W/ HEIGHT)	5'	
IRON ON CONCRETE COPING		
WOOD PICKET FENCE (W/ HEIGHT)	4'	4'
GUARD POST	GP	GP
BEAM TYPE MALL BARRIER		
PORTABLE PRECAST CONCRETE BARRIER		
CAST IN PLACE CONCRETE BARRIER		
RETAINING WALL (W/TYPE)	RW (STN.)	RW (STN.)
RAILROAD/TROLLEY TRACK		

LOT & BLOCK NUMBER — 39 BLOCK 2109

ANGLE — 0.00

LEGEND

	EXISTING	PROPOSED
TREE DRIPLINE		
TREE CRITICAL ROOT ZONE		
TREE PROTECTION ZONE		
MAJOR CONTOUR LINE	35	36
MINOR CONTOUR LINE	35	36
CONSTRUCTION ACCESS/ENTRANCE		
STAGING AREA		
STABILIZED CONSTRUCTION ENTRANCE		
TEMPORARY ASPHALT ENTRANCE		
FULL DEPTH PAVEMENT REMOVAL		
MILLING AND PAVING		
FULL EXCAVATION LIMIT		
SAWCUT LIMIT		
PIPE REMOVAL		
POINT OF BEGINNING		
CONSTRUCTION LIMIT LINE		CLL
SILT FENCE		SF SF
TEMPORARY CONSTRUCTION FENCE		CF
STRAW BALE DIKE		
TREE TO BE PROTECTED		7"
TREE TO BE TRANSPLANTED		
TREE TO BE REMOVED		7"
BORING LOCATION		B
PERMEABILITY TEST LOCATION		PT
GREEN INFRASTRUCTURE PRACTICE		
CLEANOUT/INSPECTION PORT		
ON-SITE GREEN INFRASTRUCTURE MANHOLE		
OUTLET CONTROL STRUCTURE		
DUAL CATCH BASIN		
MODIFIED CURB INLET		
PROPOSED STORM DRAIN (W/ FLOW DIRECTION)		
DRAINAGE AREA		
FLOW DIRECTION		FLOW
GREEN INFRASTRUCTURE CHARACTERISTICS		GI PRACTICE ID: TRIBUTARY AREA / VOLUME OF X.XX" STORM / CAPACITY MANAGED

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PARKS & RECREATION
Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

SEAL

BLOCK 4905

LOT 500

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE

DRAWING TITLE
LEGEND AND ABBREVIATIONS

DESIGNED BY	DRAWN BY	CHECKED BY
AK	AK	WS/AK

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	----	G003	GI-CONS-6
	DATE: NOV 2026		SHEET No. 6 OF 144 SHEETS

NEW YORK CITY ENVIRONMENTAL PROTECTION
BUREAU OF ENVIRONMENTAL PLANNING & ANALYSIS

NYC Parks

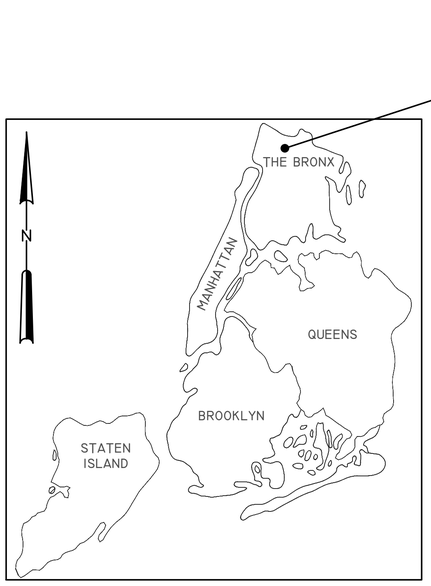
ON-SITE GREEN INFRASTRUCTURE
HUNTS POINT CSO TRIBUTARY AREA
OUTFALL HP-014

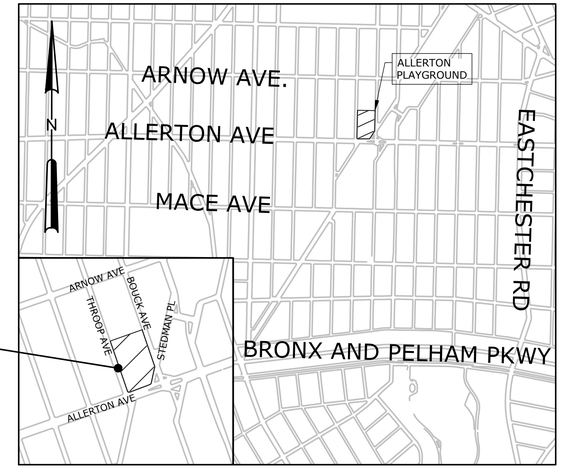
DEP CAPITAL CONTRACT NO. GI-CONS-6

X172 ALLERTON PLAYGROUND
BBL #2045260001
BID SET

BRONX, NY

NOV 2026





LOCATION PLAN

SHEET LIST	
Sheet Number	Sheet Title
G001	COVER SHEET
G002	GENERAL NOTES
G003	LEGEND AND ABBREVIATIONS
S001	TOPOGRAPHIC SURVEY - 1
S002	TOPOGRAPHIC SURVEY - 2
S003	TOPOGRAPHIC SURVEY - 3
B100	BORING PLAN
B101	BORING LOGS
C100	TREE PROTECTION, STAGING, AND ACCESS PLAN
C101	REMOVAL AND DEMOLITION PLAN
C200	PROPOSED GREEN INFRASTRUCTURE LAYOUT PLAN - 1
C201	PROPOSED GREEN INFRASTRUCTURE LAYOUT PLAN - 2
C202	MATERIALS PLAN
C300	SECTIONS & PROFILES - 1
C301	SECTIONS & PROFILES - 2
C302	SECTIONS & PROFILES - 3
C303	SECTIONS & PROFILES - 4
C500	DETAILS - 1
C501	DETAILS - 2

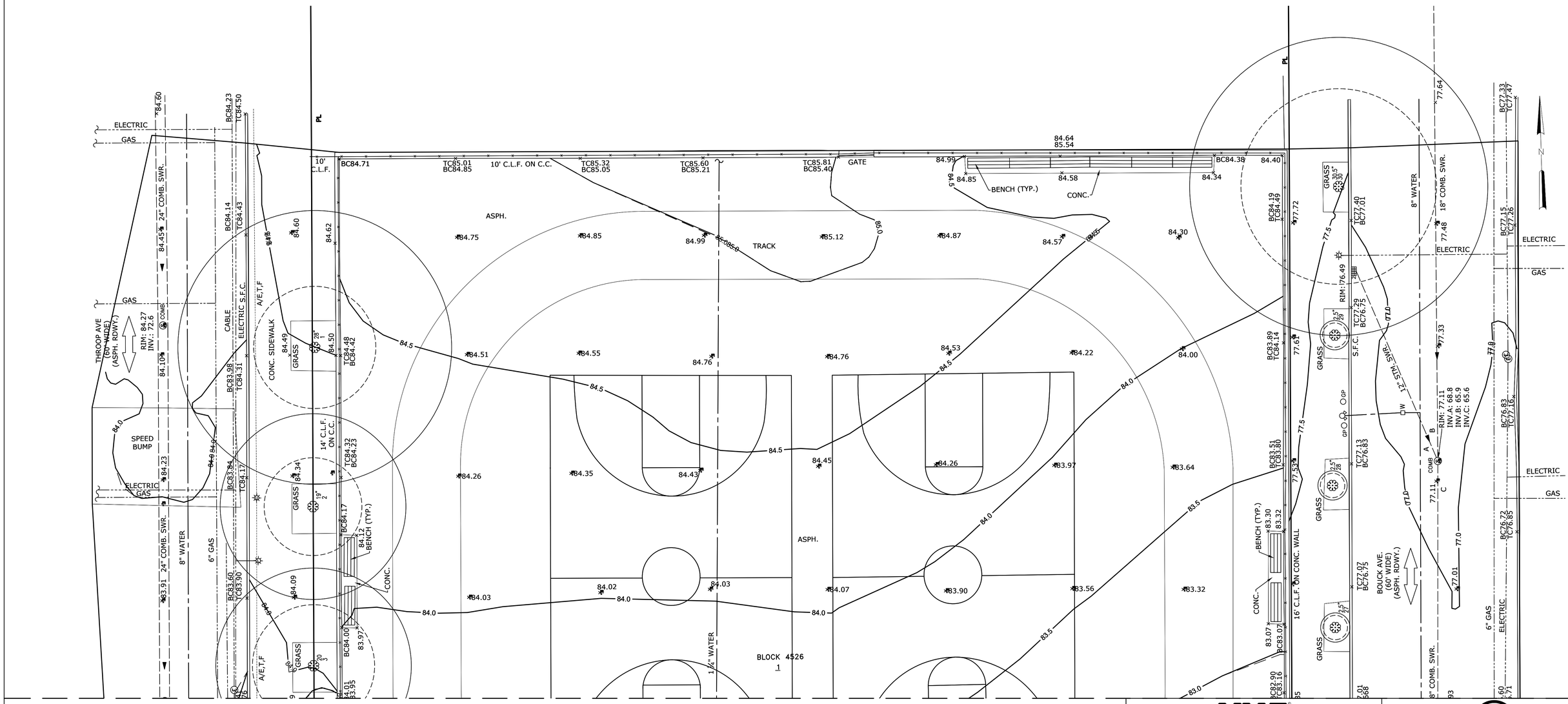
John McLaughlin
Digitally signed by John McLaughlin
Date: 2026.11.03 09:24:56 -05'00'

JOHN MCLAUGHLIN
MANAGING DIRECTOR
OFFICE OF ECOSYSTEM SERVICES, GREEN INFRASTRUCTURE AND RESEARCH
BUREAU OF ENVIRONMENTAL PLANNING & ANALYSIS, NYCDEP

Lisa F. Garcia
Digitally signed by Lisa F. Garcia
Date: 2026.11.02 15:30:31 -05'00'

LISA F. GARCIA
COMMISSIONER
NYCDEP

File = G:\Projects\20260003.1000 - GI-P4-2 Design\CAD\Final Bid Documents (Revised)\SHEET\ALLERTON PLAYGROUND\Sheets\ 0 - T-1 Saved Date = 10/15/2025 10:09 AM
PLOT DATE: 10/27/2025 11:54 PM BY: AMORTA



MATCHLINE - SEE DRAWING NO. S002

5 0 5 10
SCALE: 1" = 10'

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NO.	DATE	ISSUED FOR	BY

SEAL

BLOCK 4526

LOT 1

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
ALLERTON PLAYGROUND
LOCATED ON STEDMAN PL & BOUCK AV, BRONX, NY 10469

DRAWING TITLE
TOPOGRAPHIC SURVEY - 1

DESIGNED BY	DRAWN BY	CHECKED BY
B. THAYER ASSOCIATES	B. THAYER ASSOCIATES	B. THAYER ASSOCIATES

B-SCAN

SCALE: 1" = 10'

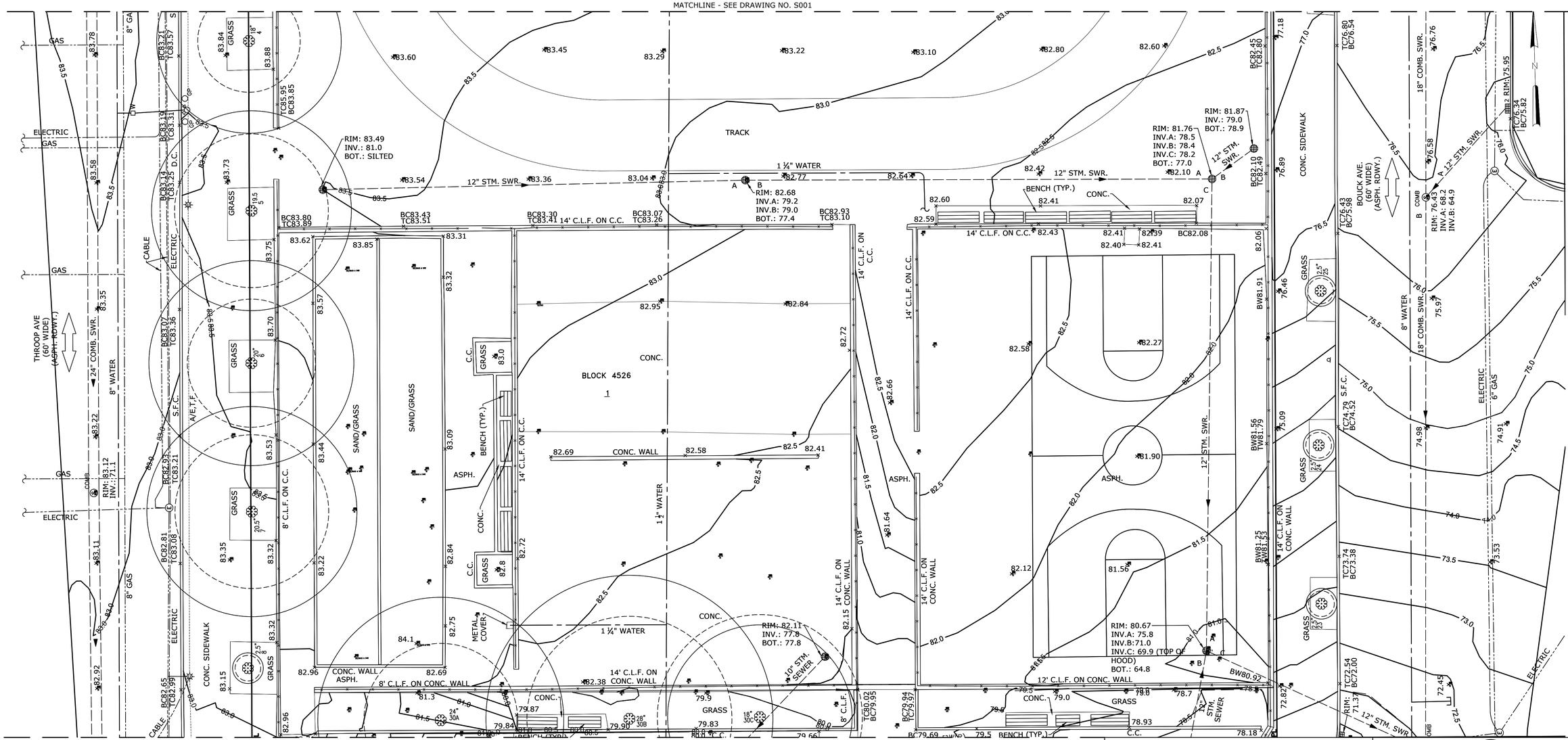
DRAWING NO.: S001

DATE: NOV 2026

CONTRACT NO.: GI-CONS-6

SHEET No. 4 OF 20 SHEETS

MATCHLINE - SEE DRAWING NO. S001



5 0 5 10

SCALE: 1" = 10'

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BLOCK 4526

LOT 1

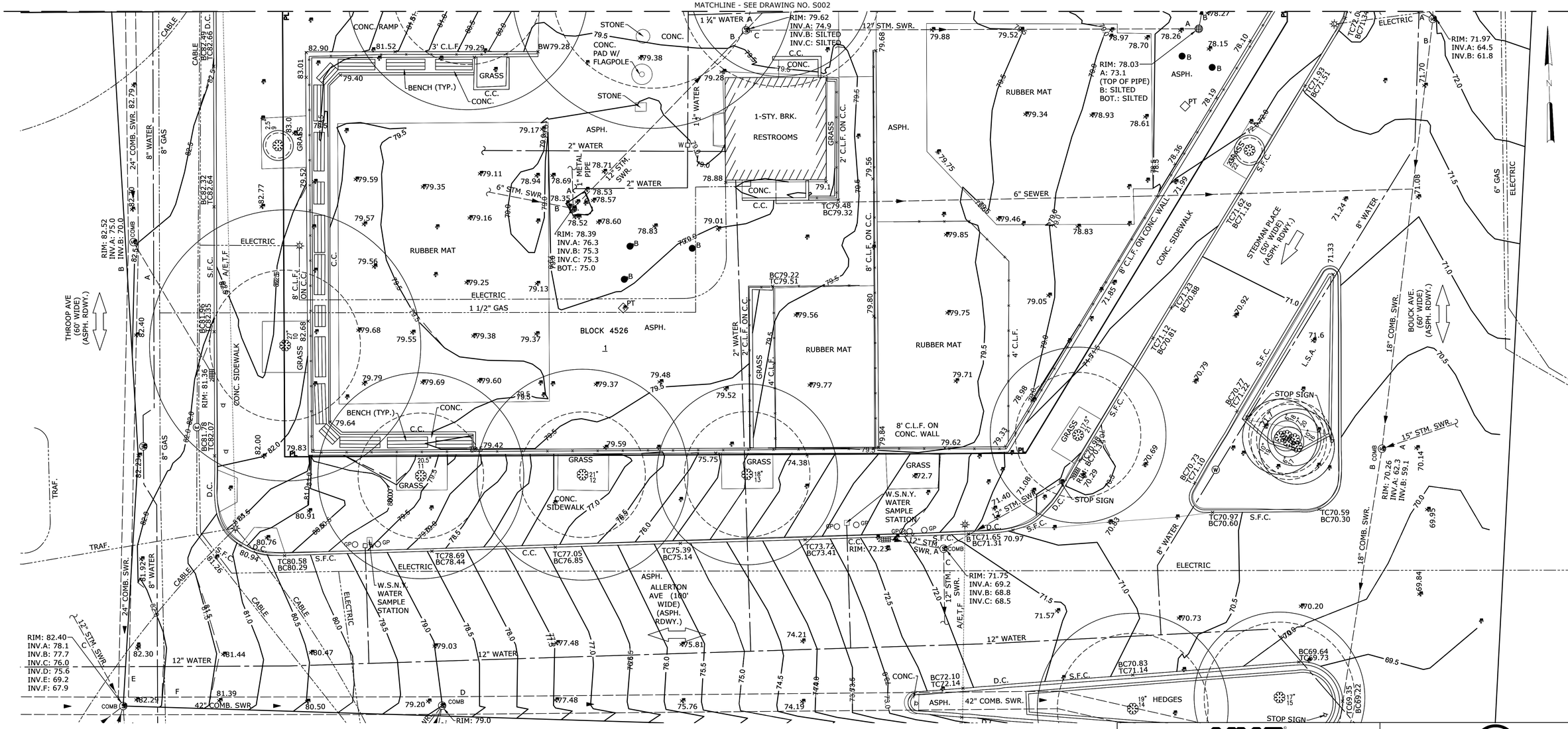
PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
ALLERTON PLAYGROUND
LOCATED ON STEDMAN PL & BOUCK AV, BRONX, NY 10469

DRAWING TITLE
TOPOGRAPHIC SURVEY - 2

DESIGNED BY	DRAWN BY	CHECKED BY
B. THAYER ASSOCIATES	B. THAYER ASSOCIATES	B. THAYER ASSOCIATES

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 10'	S002	GI-CONS-6
	DATE: NOV 2026		SHEET No. 5 OF 20 SHEETS

MATCHLINE - SEE DRAWING NO. S002



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NO.	DATE	ISSUED FOR	BY

SEAL

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
ALLERTON PLAYGROUND
LOCATED ON STEDMAN PL & BOUCK AV, BRONX, NY 10469

DRAWING TITLE
TOPOGRAPHIC SURVEY - 3

DESIGNED BY	DRAWN BY	CHECKED BY
B. THAYER ASSOCIATES	B. THAYER ASSOCIATES	B. THAYER ASSOCIATES

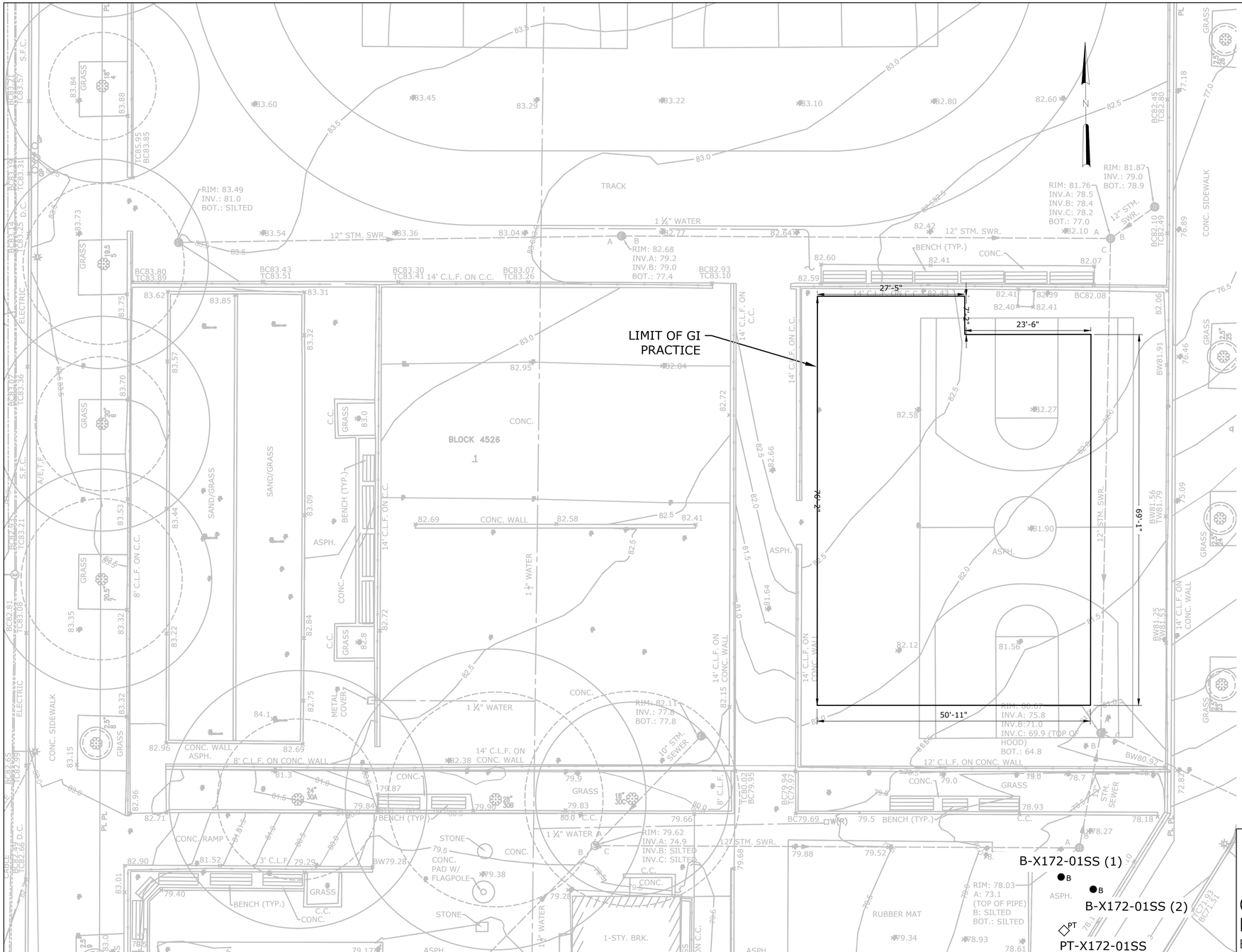
B-SCAN

SCALE	DRAWING NO.	CONTRACT NO.
1" = 10'	S003	GI-CONS-6

DATE: NOV 2026

BLOCK 4526
LOT 1

SHEET No. 6 OF 20 SHEETS



LEGEND

BORING LOCATION

PERMEABILITY TEST LOCATION

GREEN INFRASTRUCTURE PRACTICE

5 0 5 10

SCALE: 1" = 10'

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PARKS & RECREATION
Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

SEAL

STATE OF NEW YORK · SAMUEL D. FOX · 096594 · LICENSED PROFESSIONAL ENGINEER

BLOCK 4526

LOT 1

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
ALLERTON PLAYGROUND
LOCATED ON STEDMAN PL & BOUCK AV, BRONX, NY 10469

DRAWING TITLE
BORING PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
SF/SC	SF/SC	WS

B-SCAN

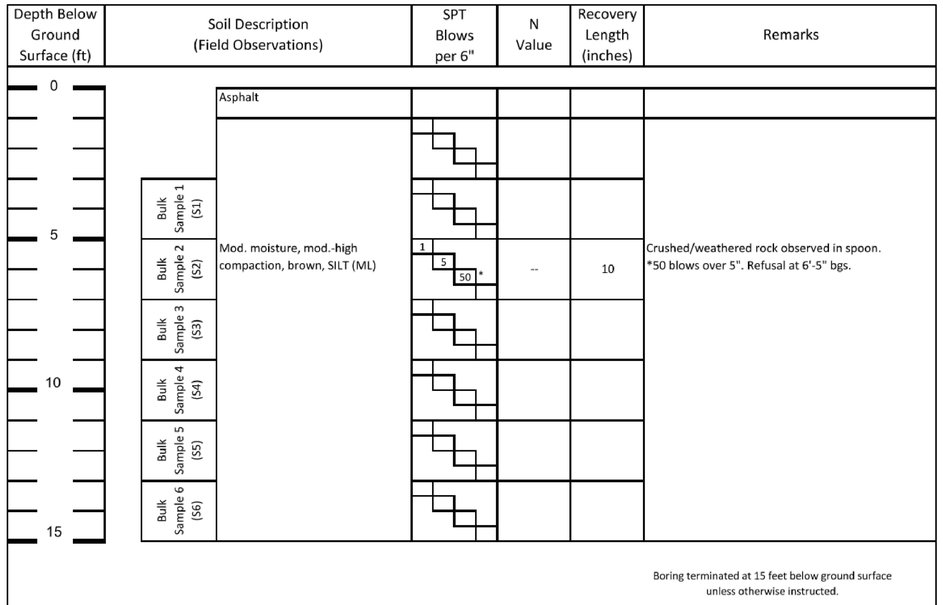
SCALE: 1" = 10'

DRAWING NO.: B100

DATE: NOV 2026

CONTRACT NO.: GI-CONS-6

SHEET No. 7 OF 20 SHEETS



Inspector's Remarks:
Refusal al 6'-5" bgs. Drilled straight down to 5' bgs; no samples collected between 3'-0" and 5'-0" bgs, as this sample was collected in B-X172-01RG(1). Refusal depth encountered in B-X172-01RG(2) was within one foot of refusal depth encountered in B-X172-01RG(1); this, in combination with weathered rock observed in both boreholes, indicates that bedrock was encountered. Abandoned location and soil boring terminated.

B-X172-01SS

Boring ID	LABORATORY SAMPLE RESULTS		
	Depth (ft)	USCS Symbol	% Passing No 200 Sieve
B-X172-01SS	3'-5'	SM	13.10%
	5'-7'	SM	24.20%
	7'-9'	GM	22.60%

B-X172-01SS, LAB SAMPLE RESULTS

Location	PERMEABILITY TEST SUMMARY	
	Test Depth (ft)	Average Permeability for In-Situ Testing 1 (inches/hour)
PT-X172-01SS	3'	0.26
PT-X172-02RG*	3'	0.96
* Rain garden practice was not viable due to shallow depth of bedrock.		

PT-X172-01SS, PERMEABILITY TEST

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NO.	DATE	ISSUED FOR	BY

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STATE OF NEW YORK
SAMUEL FIELD
096594
LICENSED PROFESSIONAL ENGINEER

BLOCK 4526
LOT 1

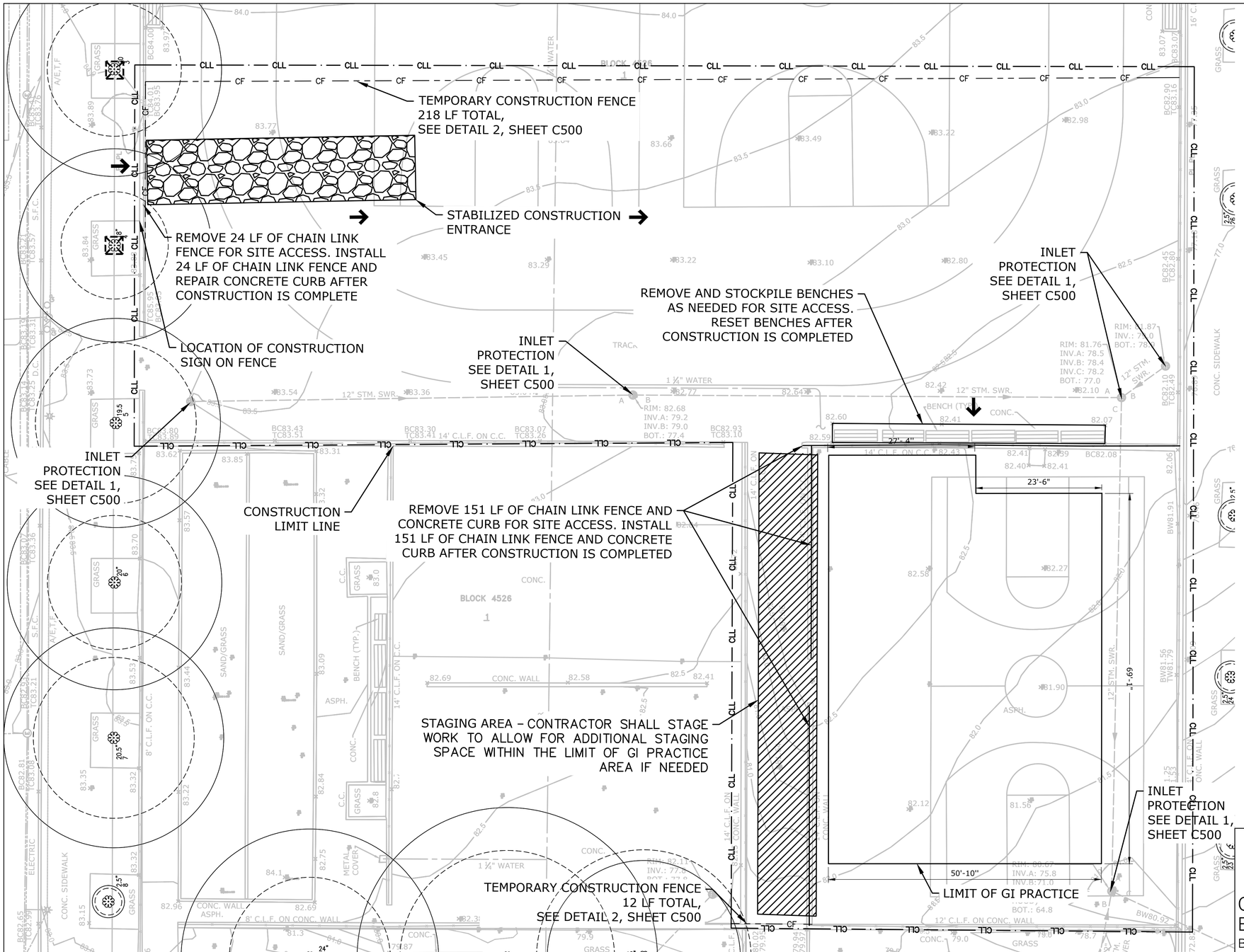
PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
ALLERTON PLAYGROUND
LOCATED ON STEDMAN PL & BOUCK AV, BRONX, NY 10469

DRAWING TITLE
BORING LOGS

DESIGNED BY	DRAWN BY	CHECKED BY
SF/SC	SF/SC	WS

B-SCAN

SCALE ----
DRAWING NO. B101
CONTRACT NO. GI-CONS-6
DATE NOV 2026
SHEET No. 8 OF 20 SHEETS



LEGEND

- TREE DRIPLINE
- TREE CRITICAL ROOT ZONE
- STAGING AREA
- CONSTRUCTION ACCESS/ENTRANCE
- CONSTRUCTION LIMIT LINE (CLL)
- TEMPORARY CONSTRUCTION FENCE (CF)
- TREE TO BE PROTECTED (e.g. 3 – 7")
- GREEN INFRASTRUCTURE PRACTICE

SCALE: 1" = 10'

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Bureau of Environmental Planning and Analysis

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Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

SEAL: STATE OF NEW YORK – SHANNON FLYNN – 096594 – LICENSED PROFESSIONAL ENGINEER

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
ALLERTON PLAYGROUND
LOCATED ON STEDMAN PL & BOUCK AV, BRONX, NY 10469

DRAWING TITLE
TREE PROTECTION, STAGING, AND ACCESS PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
SF/SC/SM	SF/SC	WS

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 10'	C100	GI-CONS-6

BLOCK 4526
LOT 1

DATE: NOV 2026

SHEET No. 9 OF 20 SHEETS

TREE #	SPECIES (common name)	DBH (inches)	CTLA CONDITION RATING	ISA CRITICAL ROOTZONE (CRZ) RADIUS (ft.)	TREE REMOVAL	STUMP REMOVAL	TRANSPLANT TREE	PREPARATORY PRUNING						TREE PROTECTION						DECOMPACT				PREPARATORY FERTILIZE	TREE GROWTH REGULATOR	COMMENTS
								ANSI A-300																		
								Cleaning	Raising	Reducing	Restoring	Structural	Thinning	Limb Tying	Temporary Wooden Tree Guard	Temporary Wooden Tree Guard For Groves	Temporary Fence Boundary	Protect Existing Tree Roots w/ Woodchips	Protect Ex. Tree Roots w/ Plywood or Mats	Air-Tilling 3 Ft Radius	Air-Tilling 5 Ft Radius	Radial Trench	Vertical Mulch			
1	OAK, PIN	28	66%	28.0				X																		Major trunk canker, major dead branches
2	OAK, PIN	19	53%	19.0																						Broken leader, extreme hollow trunk, poor canopy
3	OAK, PIN	20	72%	20.0				X							X											Major dead scaffold branches, major dieback, fair canopy
4	OAK, PIN	18	66%	18.0				X				X			X											Major dead branches, major dieback, broken codominant leader
5	OAK, PIN	20	78%	19.5				X																		Major water sprouts, minor leaf scorch
6	OAK, PIN	20	78%	20.0				X																		Major water sprouts, minor dead branches
7	OAK, PIN	21	78%	20.5				X																		Major water sprouts, minor dead branches
8	ELM, AMERICAN	3	100%	3.0																						No comment
9	ELM, AMERICAN	3	100%	3.0																						No comment
10	OAK, PIN	27	75%	27.0				X																		Major dead scaffold branches, major dieback
11	OAK, PIN	21	72%	20.5				X																		Major water sprouts, major dead scaffold branches
12	OAK, PIN	21	78%	21.0				X																		Major dead branches, minor water sprouts
13	OAK, PIN	18	88%	18.0				X																		Minor dead branches, minor leaf spot
14	LONDON PLANETREE	19	78%	19.0				X																		Minor water sprouts, major dead branches
15	LONDON PLANETREE	17	75%	17.0				X																		Minor water sprouts, major dead branches, minor trunk cavity
16	TREE OF HEAVEN	10	69%	7.5				X																		Major trunk cavity, major dead branches
17	UNKNOWN DEAD TREES	6	0%	3.0	X																					Dead tree
18	TREE OF HEAVEN	6	63%	3.0				X																		Major trunk lean, extreme trunk cavity, major dead branches
19	TREE OF HEAVEN	10	69%	7.5				X																		Major trunk lean, major dead branches
20	MAPLE, NORWAY	7	25%	5.3																						Extreme decline
21	OAK, PIN	18	66%	17.5				X																		Major water sprouts, minor dead branches, fair branching
22	ELM, AMERICAN	3	100%	3.0																						No comment
23	ELM, AMERICAN	3	100%	3.0																						No comment
24	ELM, AMERICAN	3	100%	3.0																						No comment
25	ELM, AMERICAN	3	100%	3.0																						No comment
26	ELM, AMERICAN	3	88%	3.0																						Minor basal damage
27	ELM, AMERICAN	3	100%	3.0																						No comment
28	ELM, AMERICAN	3	88%	3.0																						Major leaf scorch
29	ELM, AMERICAN	3	100%	3.0																						No comment
30	OAK, PIN	31	91%	30.5				X																		Minor dead branches
30A	OAK, PIN	24	91%	24.0				X																		Minor dead branches
30B	OAK, PIN	28	91%	28.0				X																		Minor dead branches
30C	OAK, PIN	18	91%	18.0				X																		Minor dead branches

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Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

SEAL

STATE OF NEW YORK — MASSIMO D'ANNA — 096594 — LICENSED PROFESSIONAL ENGINEER

BLOCK 4526

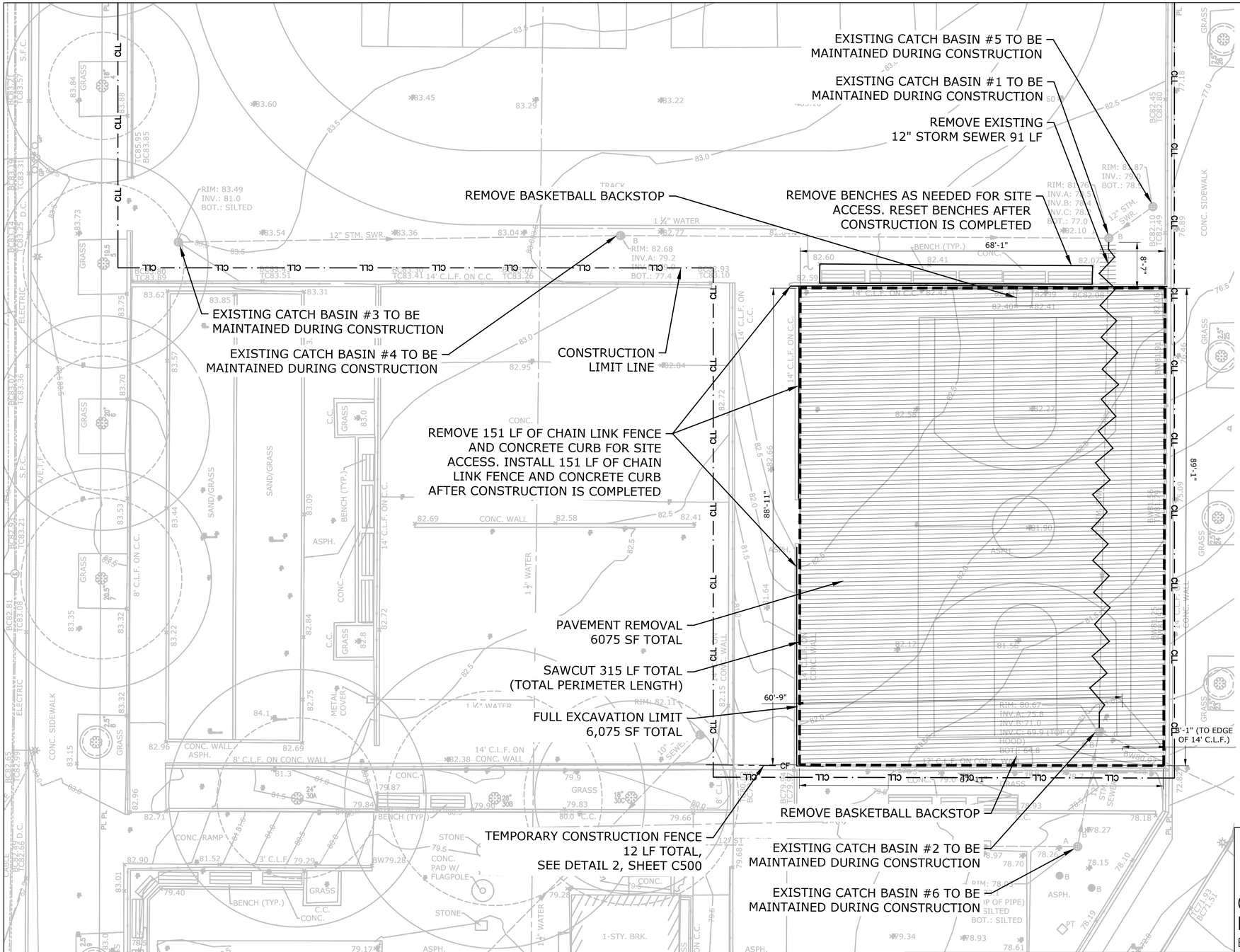
LOT 1

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
ALLERTON PLAYGROUND
LOCATED ON STEDMAN PL & BOUCK AV, BRONX, NY 10469

DRAWING TITLE
TREE PROTECTION SCHEDULE

DESIGNED BY	DRAWN BY	CHECKED BY
----	----	----

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	----	C101	GI-CONS-6
	DATE: NOV 2026		SHEET No. 10 OF 20 SHEETS



LEGEND

- SAWCUT LIMIT
- TEMPORARY CONSTRUCTION FENCE — CF —
- PIPE REMOVAL
- CONSTRUCTION LIMIT LINE — CLL —
- FULL DEPTH PAVEMENT REMOVAL
- FULL EXCAVATION LIMIT

CONSTRUCTION SEQUENCING:

1. INSTALL TEMPORARY CONSTRUCTION FENCE (SEE DETAIL 2, SHEET C500)
2. INLET DRAIN PROTECTION (SEE DETAIL 1, SHEET C500) SHALL BE USED ON ALL INLET DRAINS ADJACENT TO AND DOWNSTREAM OF CONSTRUCTION AREA.
3. SHEETING AND BRACING SHALL BE INSTALLED FOR ALL EXCAVATIONS DEEPER THAN 5 FEET.
4. CONSTRUCTION FENCE SHOWN IS APPROXIMATE OUTER LIMITS. FENCED AREA SHALL BE REDUCED IF AN AREA IS COMPLETED TO ALLOW PEDESTRIAN ACCESS.
5. EXCAVATION AND INSTALLATION OF GREEN INFRASTRUCTURE PRACTICES SHALL BE PERFORMED, ALONG WITH ALL ASSOCIATED APPURTENANCES. HAND/PNUEMATIC EXCAVATION SHALL BE PERFORMED IN AREAS WHERE PAVEMENT NEEDS TO BE REMOVED WITHIN THE CRITICAL ROOT ZONES OF TREES.
6. CONSTRUCTION SHALL BE COMPLETED IN PHASES DUE TO LIMITED STAGING AREA, CONTRACTOR TO COORDINATE SEQUENCING ACCORDINGLY.
7. PAVING IN THE WORK AREA SHALL BE RESTORED. PAINT MARKINGS IN WORK AREAS SHALL BE REPLACED IN KIND.
8. EROSION AND CONTROL MEASURES AND CONSTRUCTION FENCE SHALL BE REMOVED.
9. EXISTING UNDERGROUND SITE DRAINAGE AND SEWER PIPES SHALL BE CLEANED OUT UPON COMPLETION OF THE CONTRACT WORK.

5 0 5 10
SCALE: 1" = 10'

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NO.	DATE	ISSUED FOR	BY

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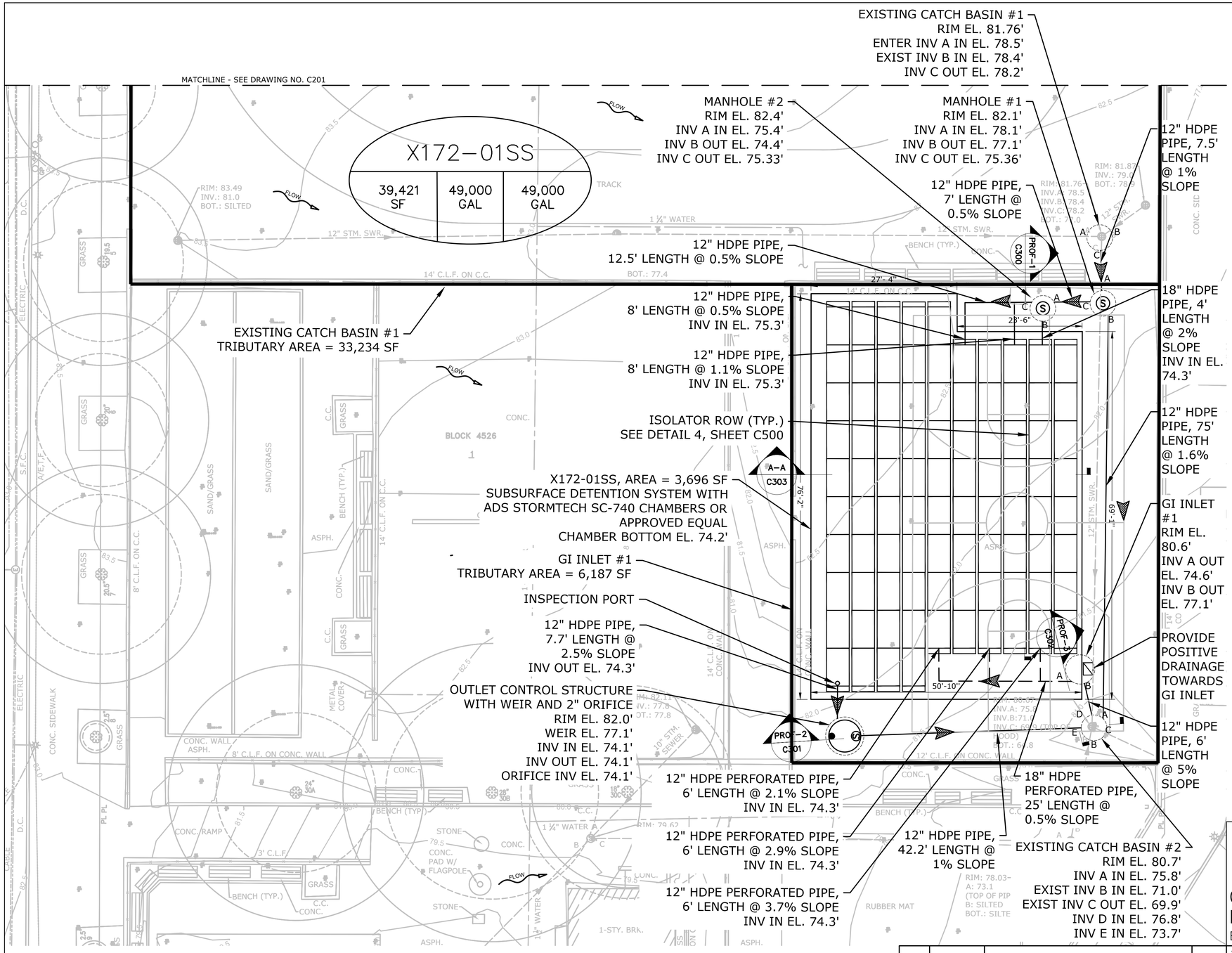
BLOCK 4526
LOT 1

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
ALLERTON PLAYGROUND
LOCATED ON STEDMAN PL & BOUCK AV, BRONX, NY 10469

DRAWING TITLE
REMOVAL AND DEMOLITION PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
SF/SC	SF/SC	WS

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 10'	C102	GI-CONS-6
	DATE: NOV 2026		SHEET No. 11 OF 20 SHEETS



LEGEND

- GREEN INFRASTRUCTURE PRACTICE
- PROPOSED STORM DRAIN
- DRAINAGE AREA
- PROPOSED PERFORATED STORM DRAIN
- CLEANOUT
- FLOW DIRECTION
- SOLID CATCH BASIN COVER
- OUTLET CONTROL STRUCTURE
- GI INLET
- MANHOLE
- GREEN INFRASTRUCTURE CHARACTERISTICS

GI NAME

TRIBUTARY AREA	VOLUME OF 2" STORM	CAPACITY MANAGED

SCALE: 1" = 10'

GI ID	GI Asset Data					Stormwater Storage Calculations				Total Stormwater Managed (Infiltration + Storage)					As Built Stormwater Managed (Infiltration + Storage)		
	Managed Impervious Tributary Area	Volume 1.25" Rainfall on Impervious Area	GI Footprint Surface Area	GI Perimeter	Permeability Coefficient	Stormwater chambers, pipes, tanks, etc. volume	Stone Subbase			Estimated Total Infiltration Volume	Estimated Total Storage Volume	% Impervious Surface Managed	Calculated Volume of Rainfall Captured	Calculated Volume of Rainfall Captured	Double Ring Infiltrometer Permeability Coefficient	Calculated Volume of Rainfall Captured	Calculated Volume of Rainfall Captured
							Stone Depth	Stone Voids	Stormwater Captured by Stone Layer								
	sf	cf	sf	ft	in/hr	cf	ft	%	cf	cf	cf	%	cf	gal	in/hr	cf	gal
01SS	39,421	6,570.2	3,696	220	0.00	4085.10	2.80	40	2,460.0	0.0	6,545.1	100%	6,545.1	48,957.5	0.00	0.0	0.0

NO.	DATE	ISSUED FOR	BY

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Bureau of Environmental Planning and Analysis

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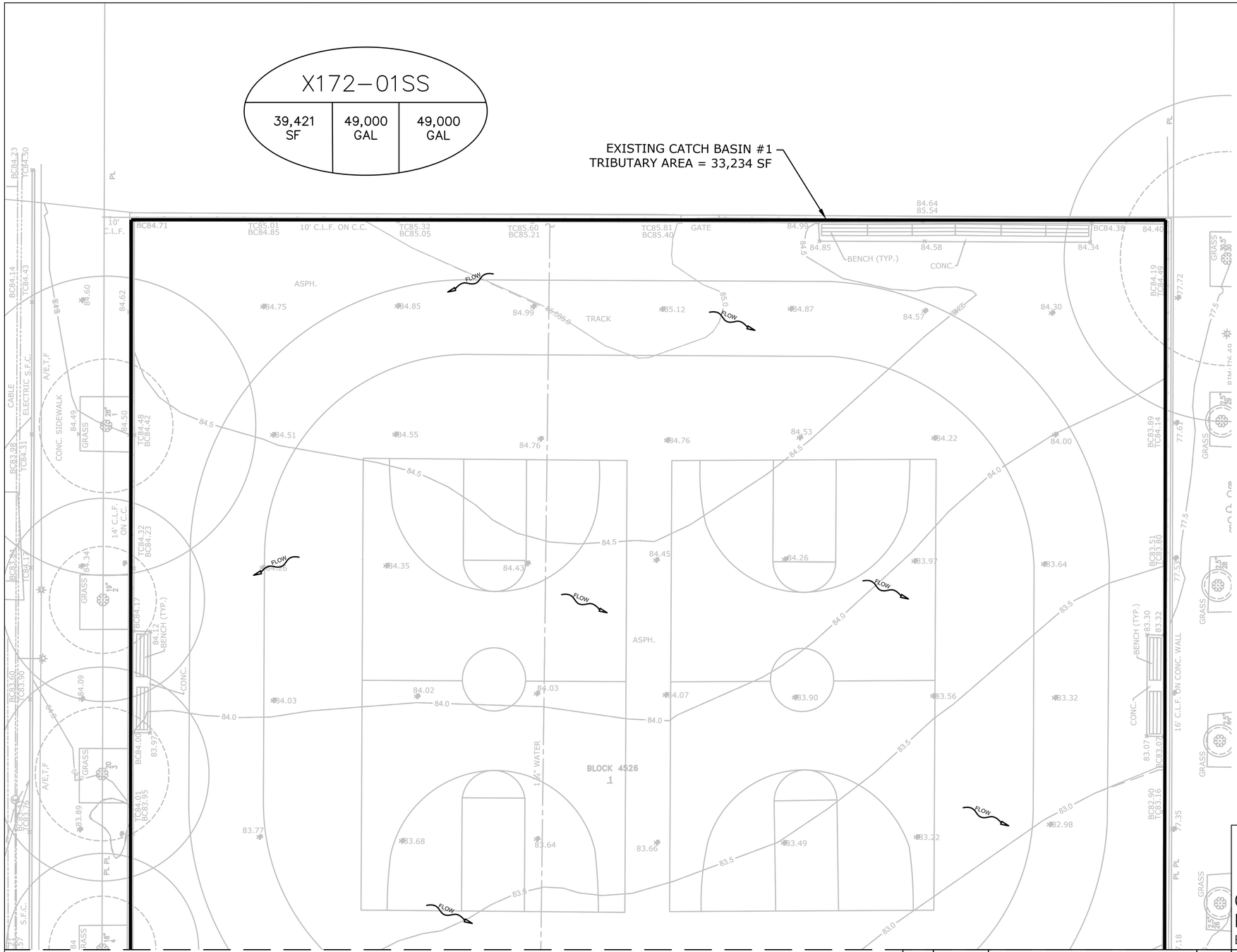
PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
ALLERTON PLAYGROUND
LOCATED ON STEDMAN PL & BOUCK AV, BRONX, NY 10469

DRAWING TITLE
PROPOSED GREEN INFRASTRUCTURE PLAN - 1

DESIGNED BY	DRAWN BY	CHECKED BY
SF/SC	SF/SC	WS

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 10'	C200	GI-CONS-6
	DATE: NOV 2026		SHEET No. 12 OF 20 SHEETS

BLOCK 4526
LOT 1



LEGEND

- GREEN INFRASTRUCTURE PRACTICE
- PROPOSED STORM DRAIN
- DRAINAGE AREA
- PROPOSED PERFORATED STORM DRAIN
- CLEANOUT
- FLOW DIRECTION
- SOLID CATCH BASIN COVER
- OUTLET CONTROL STRUCTURE
- GI INLET
- MANHOLE
- GREEN INFRASTRUCTURE CHARACTERISTICS

GI NAME		
TRIBUTARY AREA	VOLUME OF 2" STORM	CAPACITY MANAGED

MATCHLINE - SEE DRAWING NO. C200

5 0 5 10
SCALE: 1" = 10'

NO.	DATE	ISSUED FOR	BY

SEAL

STATE OF NEW YORK — LICENSED PROFESSIONAL ENGINEER — 096594

BLOCK 4526
LOT 1

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Bureau of Environmental Planning and Analysis

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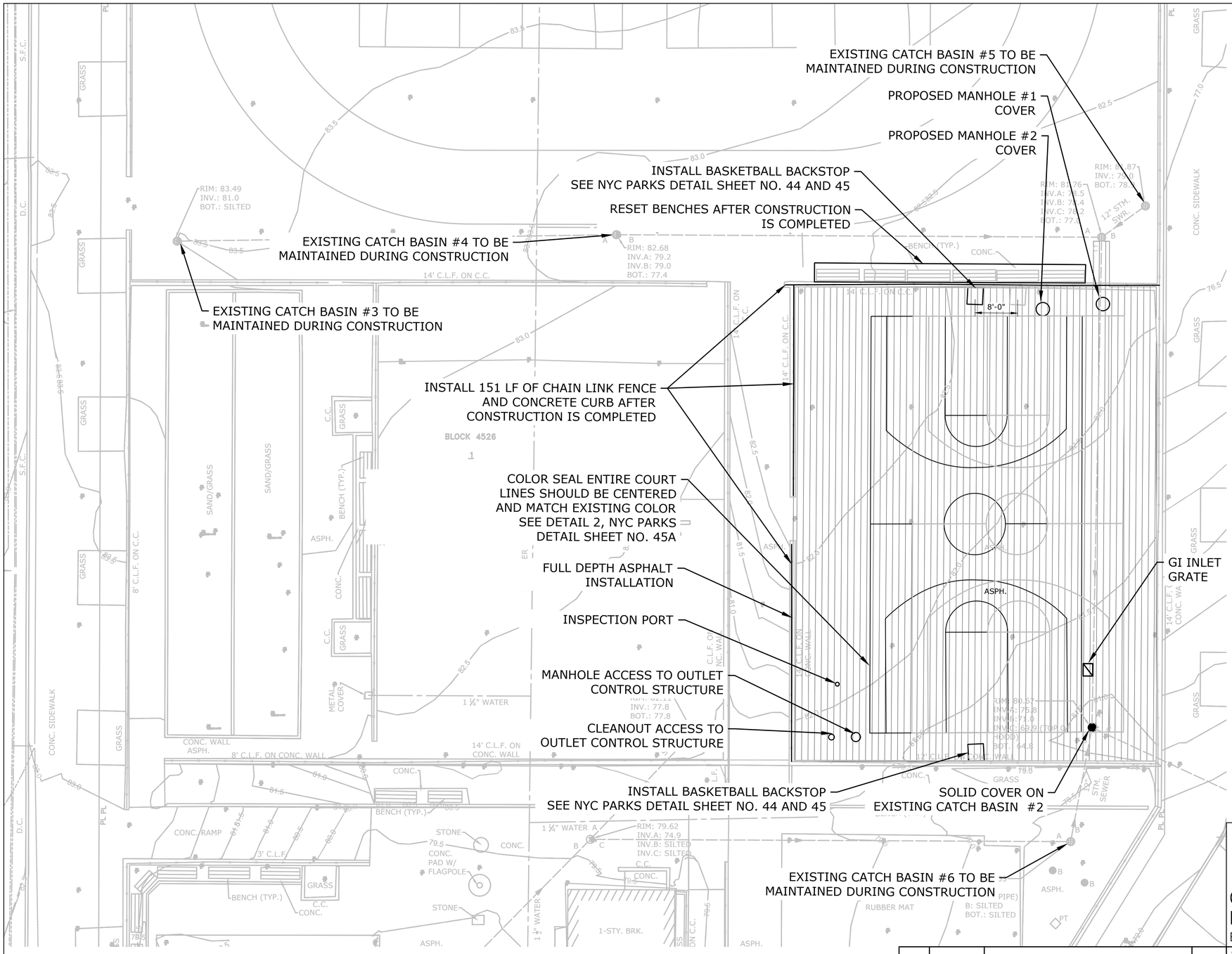
CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
ALLERTON PLAYGROUND
LOCATED ON STEDMAN PL & BOUCK AV, BRONX, NY 10469

DRAWING TITLE
PROPOSED GREEN INFRASTRUCTURE LAYOUT PLAN - 2

DESIGNED BY	DRAWN BY	CHECKED BY
SF/SC	SF/SC	WS

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 10'	C201	GI-CONS-6
	DATE: NOV 2026		SHEET No. 13 OF 20 SHEETS



LEGEND

- CLEANOUT
- SOLID CATCH BASIN COVER
- GI INLET GRATE
- MANHOLE COVER
- FULL DEPTH ASPHALT INSTALLATION

SCALE: 1" = 10'

NO.	DATE	ISSUED FOR	BY

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Bureau of Environmental Planning and Analysis

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Forestry, Horticulture and Natural Resources

SEAL: STATE OF NEW YORK · LICENSED PROFESSIONAL ENGINEER · 096594

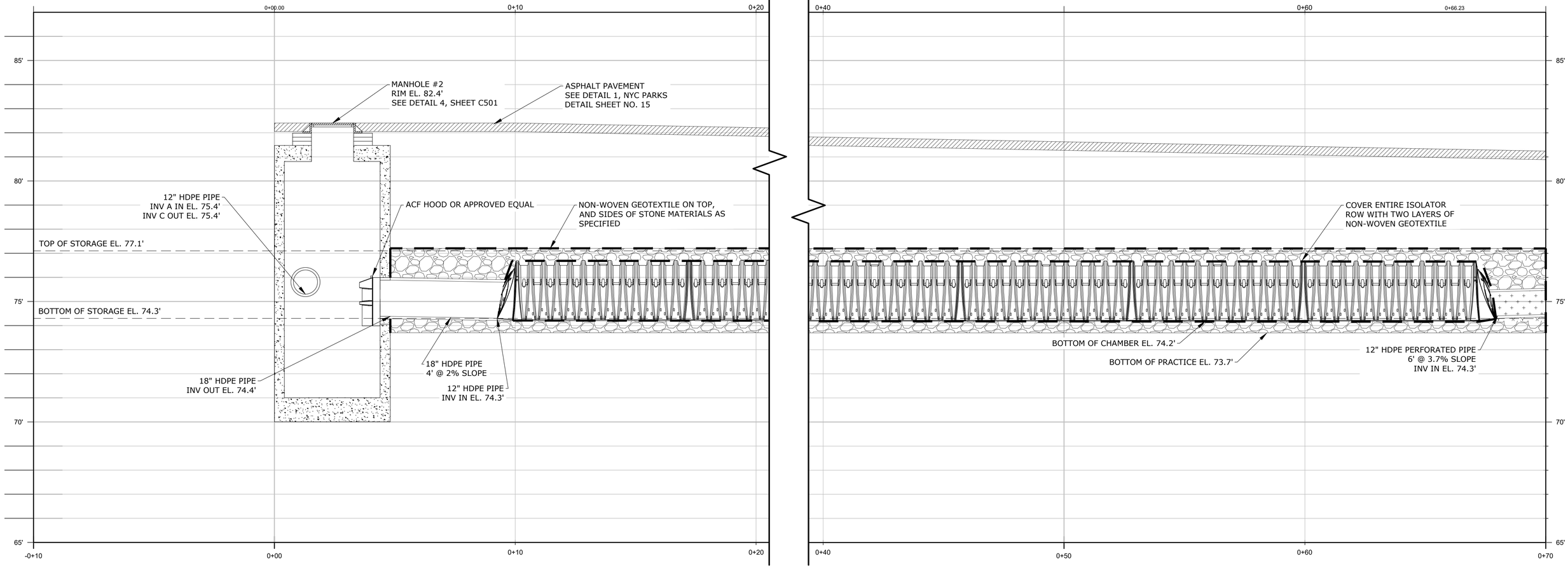
PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
ALLERTON PLAYGROUND
LOCATED ON STEDMAN PL & BOUCK AV, BRONX, NY 10469

DRAWING TITLE
MATERIALS PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
SF/SC	SF/SC	WS

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 10'	C202	GI-CONS-6
	DATE: NOV 2026		SHEET No. 14 OF 20 SHEETS

BLOCK 4526
LOT 1



PROFILE 1: MANHOLE #2 CONNECTION TO ISOLATOR ROW
Scale: 1" = 2'

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Bureau of Environmental Planning and Analysis

NYC Parks

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Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

SEAL

STATE OF NEW YORK — NASSAU — 096594 — LICENSED PROFESSIONAL ENGINEER

BLOCK 4526

LOT 1

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
ALLERTON PLAYGROUND
LOCATED ON STEDMAN PL & BOUCK AV, BRONX, NY 10469

DRAWING TITLE
SECTIONS & PROFILES - 1

DESIGNED BY	DRAWN BY	CHECKED BY
SF/SC	SF/SC	WS

B-SCAN

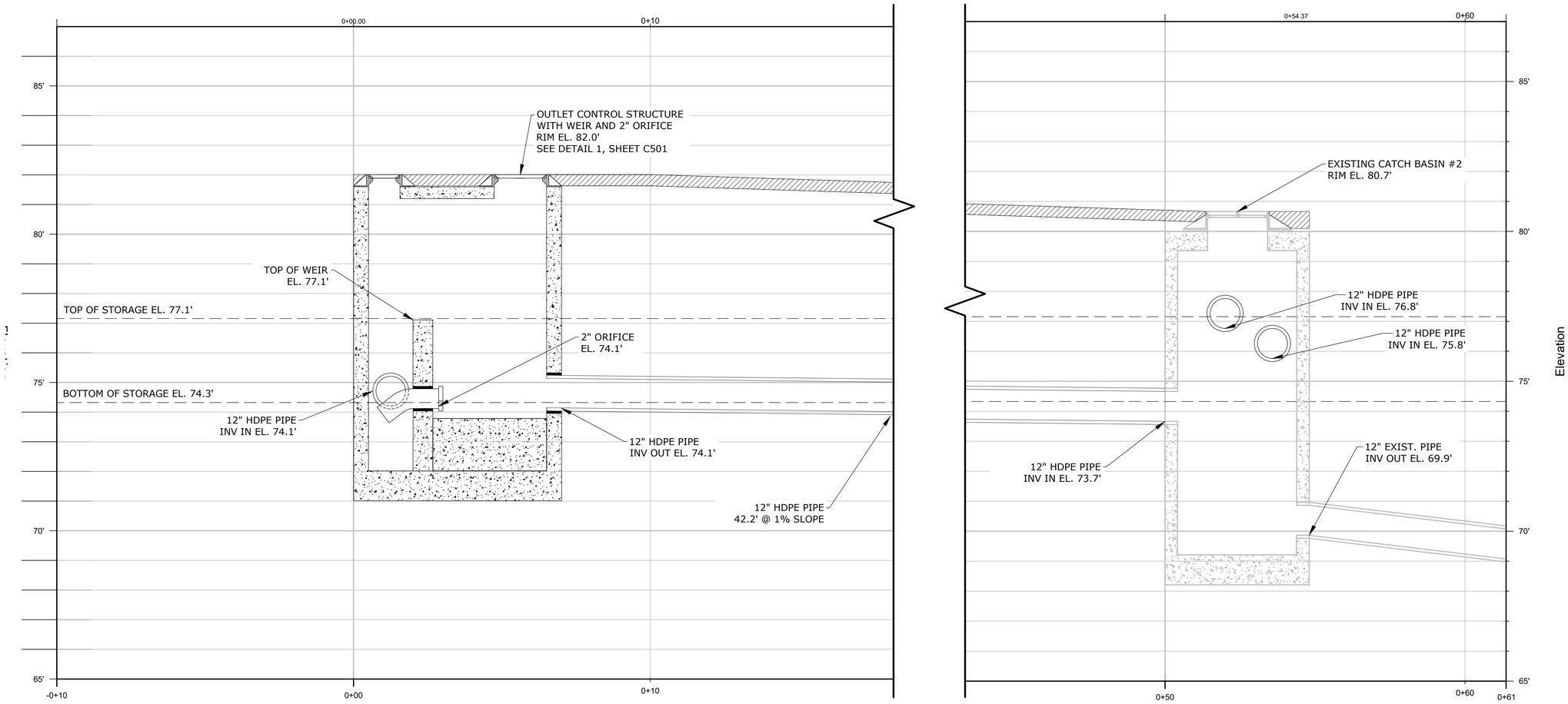
SCALE: 1" = 2'

DRAWING NO.: C300

DATE: NOV 2026

CONTRACT NO.: GI-CONS-6

SHEET No. 15 OF 20 SHEETS



PROFILE 2: OCS CONNECTION TO EXISTING CATCH BASIN #2
Scale: 1" = 2'

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Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

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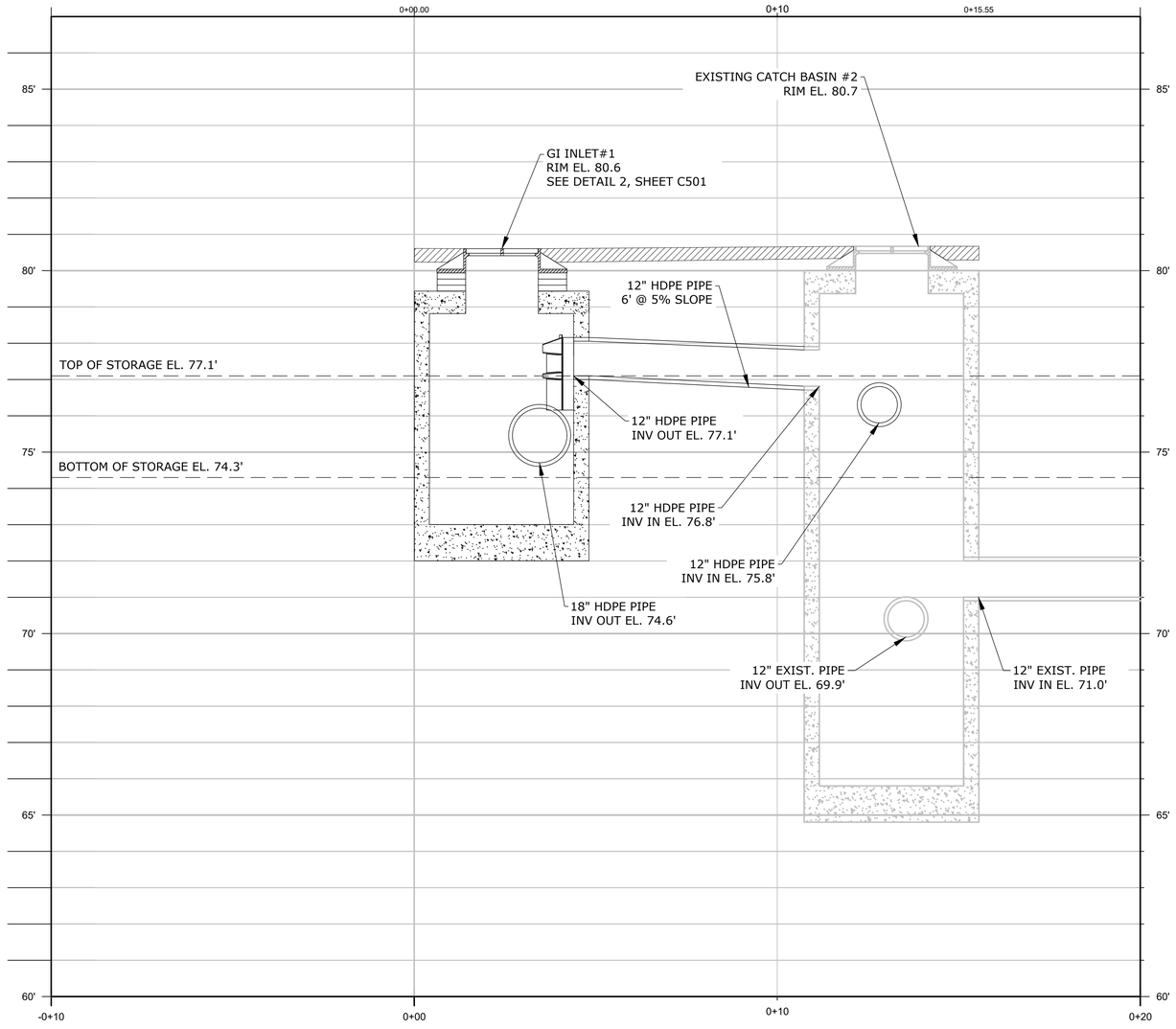
BLOCK 4526

LOT 1

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
ALLERTON PLAYGROUND
LOCATED ON STEDMAN PL & BOUCK AV, BRONX, NY 10469

DRAWING TITLE
SECTIONS & PROFILES - 2

DESIGNED BY	DRAWN BY		CHECKED BY
SF/SC	SF/SC		WS
B-SCAN	SCALE 1" = 2'	DRAWING NO. C301	CONTRACT NO. GI-CONS-6
	DATE NOV 2026		SHEET No. 16 OF 20 SHEETS



PROFILE 3: GI INLET #1 CONNECTION TO EXISTING CATCH BASIN #2

Scale: 1" = 2'

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Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

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STATE OF NEW YORK
ASHLEY SCHMIDT
096594
LICENSED PROFESSIONAL ENGINEER

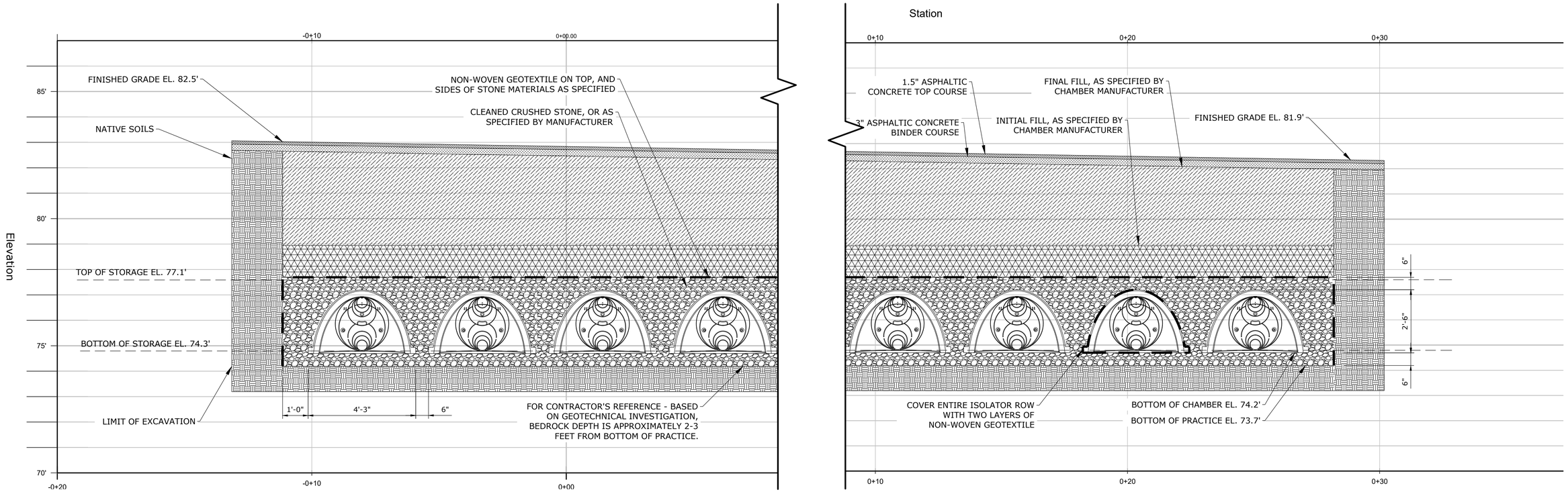
PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
ALLERTON PLAYGROUND
LOCATED ON STEDMAN PL & BOUCK AV, BRONX, NY 10469

DRAWING TITLE
SECTIONS & PROFILES - 3

DESIGNED BY	DRAWN BY		CHECKED BY
SF/SC	SF/SC		WS
B-SCAN	SCALE 1" = 2'	DRAWING NO. C302	CONTRACT NO. GI-CONS-6
	DATE NOV 2026		SHEET No. 17 OF 20 SHEETS

BLOCK 4526

LOT 1



CROSS SECTION A-A
Scale: 1" = 2'

NYC Environmental Protection

CITY OF NEW YORK
ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis

NYC Parks

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PARKS & RECREATION
Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

SEAL

STATE OF NEW YORK — ASSOCIATE — 096594 — LICENSED PROFESSIONAL ENGINEER

BLOCK 4526

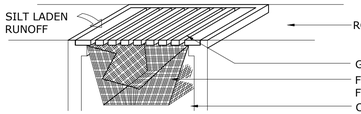
LOT 1

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
ALLERTON PLAYGROUND
LOCATED ON STEDMAN PL & BOUCK AV, BRONX, NY 10469

DRAWING TITLE
SECTIONS & PROFILES - 4

DESIGNED BY	DRAWN BY	CHECKED BY
SF/SC	SF/SC	WS

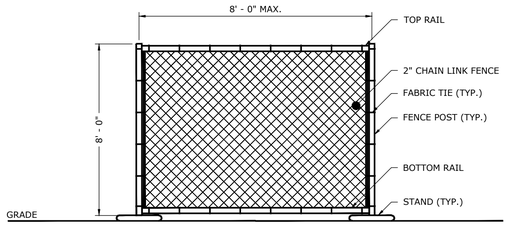
B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 2'	C303	GI-CONS-6
	DATE NOV 2026		SHEET No. 18 OF 20 SHEETS



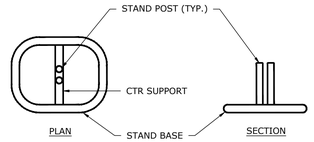
NOTE:
1. IN PAVED AREAS, USE FILTER BAG FOR INLET PROTECTION (NO MESH, BOX STONE REQUIRED).
2. FILTER BAG SHALL BE MANUFACTURED FROM A WOVEN POLYPROPYLENE GEOTEXTILE AND SEWN BY A DOUBLE NEEDLE MACHINE USING A HIGH STRENGTH NYLON THREAD.
3. BAG SHALL BE SILTSACK® BY ACF ENVIRONMENTAL, OR EQUAL, AS APPROVED BY THE ENGINEER.

MAINTENANCE REQUIREMENTS:
1. INSPECT GRATE AND BAG ON A WEEKLY BASIS AND AFTER EACH RAINFALL EVENT PRODUCING ½ INCH OR MORE OR RAIN. ANY DEBRIS OR SEDIMENT VISIBLE SHALL BE REMOVED IMMEDIATELY.
2. DAMAGE TO THE BAG SHALL BE REPAIRED IMMEDIATELY.
3. WHEN THE RESTRAINT CORD IS NO LONGER VISIBLE, THE BAG IS FULL AND SHOULD BE EMPTIED.
4. USE 1" DIAMETER REBAR TO SLIDE THROUGH THE LIFTING LOOPS/POCKETS ON EACH SIDE OF THE BAG TO FACILITATE LIFTING.
5. REMOVE SEDIMENT FROM BAG AND DISPOSE OF OFF-SITE IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS.

1 INLET PROTECTION
SCALE:NTS



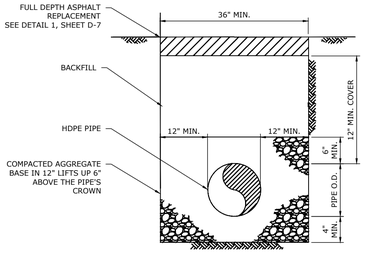
SECTION



STAND DETAIL

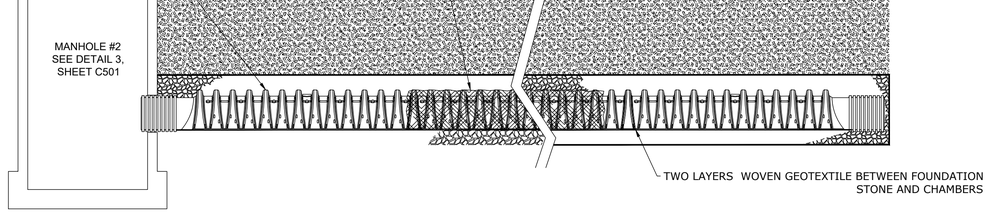
NOTES:
1. CONTRACTOR SHALL PROVIDE, AT A MINIMUM, TEMPORARY FENCE WITH DIMENSIONS AND APPURTENANCES AS SHOWN.
2. ALL OTHER DIMENSIONS, MATERIAL SIZES, MATERIAL TYPES, ACCESSORIES, ETC PER MANUFACTURER.
3. TEMPORARY FENCE SHALL REMAIN IN PLACE UNTIL CONCLUSION OF CONSTRUCTION.
4. SAND BAGS SHALL BE USED FOR POST SUPPORT IN ACCORDANCE WITH SPECIFICATIONS.

2 TEMPORARY CONSTRUCTION FENCE
SCALE:NTS

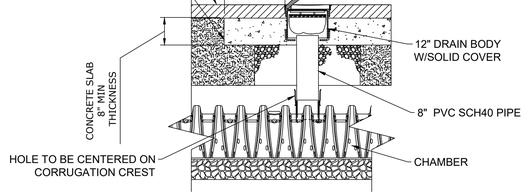


NOTE:
1. TRENCHING WITHIN EXISTING ASPHALT PAVEMENT REQUIRES FULL DEPTH ASPHALT PAVEMENT REPLACEMENT AND RESTORATION

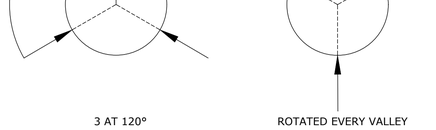
3 TRENCH RESTORATION
SCALE:NTS



4 ISOLATOR ROW
SCALE:NTS



5 INSPECTION PORT
SCALE:NTS



NOTE:
1. CLASS II PERFORATIONS SHALL BE LOCATED IN THE OUTSIDE VALLEYS OF CORRUGATED HDPE PIPE. PERFORATION PATTERN SHOWN FOR HDPE PIPE UP TO 10 INCHES IN DIAMETER.

6 AASHTO CLASS II PERFORATION PIPE
SCALE:NTS

NYC Environmental Protection

CITY OF NEW YORK
ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis

NYC Parks

CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

SEAL

STATE OF NEW YORK — SAMUEL FEIN — 096594 — LICENSED PROFESSIONAL ENGINEER

BLOCK 4526

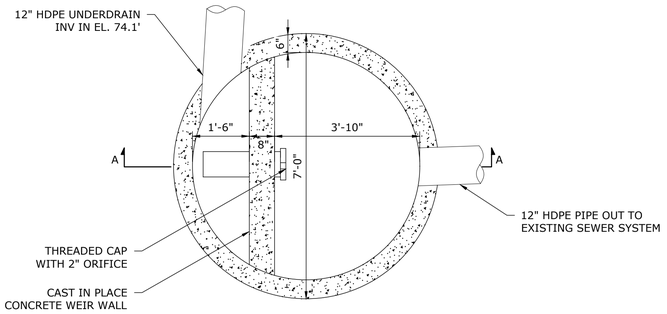
LOT 1

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
ALLERTON PLAYGROUND
LOCATED ON STEDMAN PL & BOUCK AV, BRONX, NY 10469

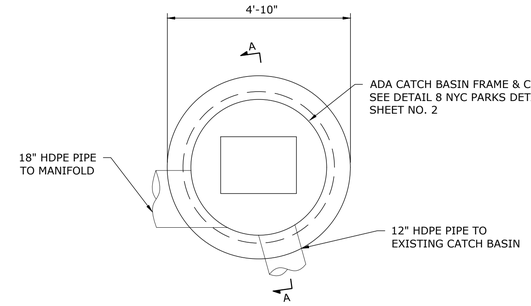
DRAWING TITLE
DETAILS - 1

DESIGNED BY	DRAWN BY	CHECKED BY
SF/SC	SF/SC	WS

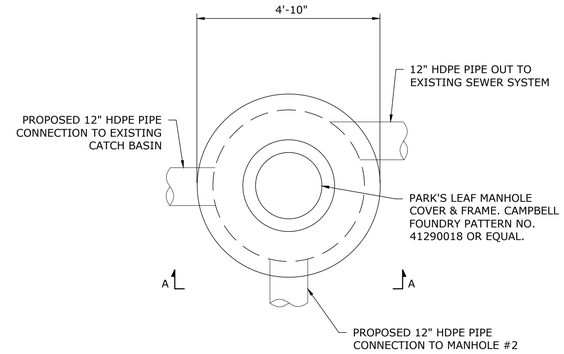
B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	NTS	C500	GI-CONS-6
	DATE: NOV 2026		SHEET No. 19 OF 20 SHEETS



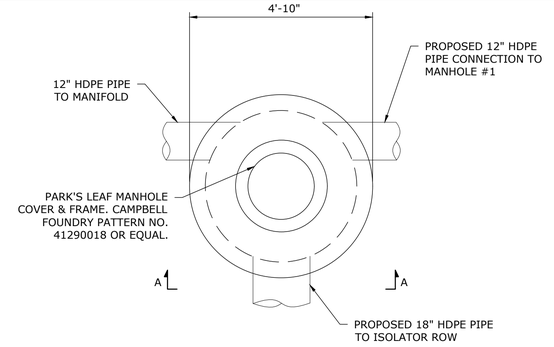
PLAN



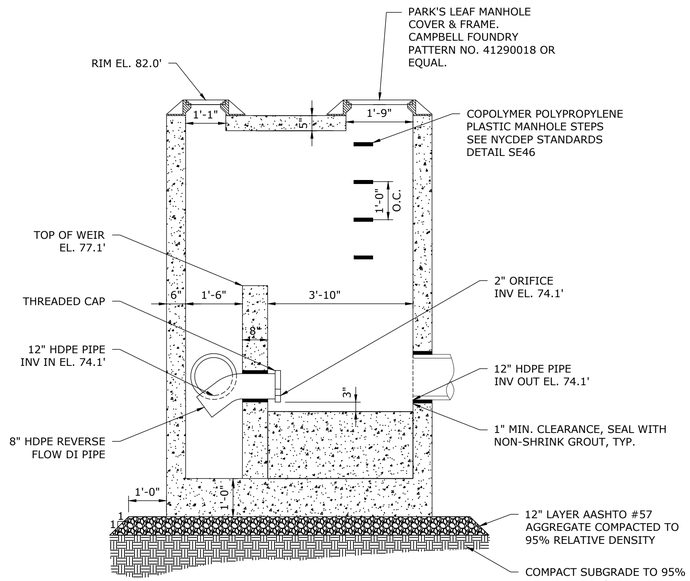
PLAN



PLAN

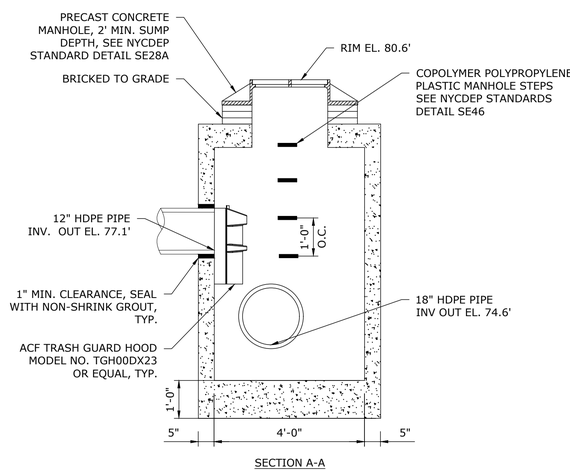


PLAN



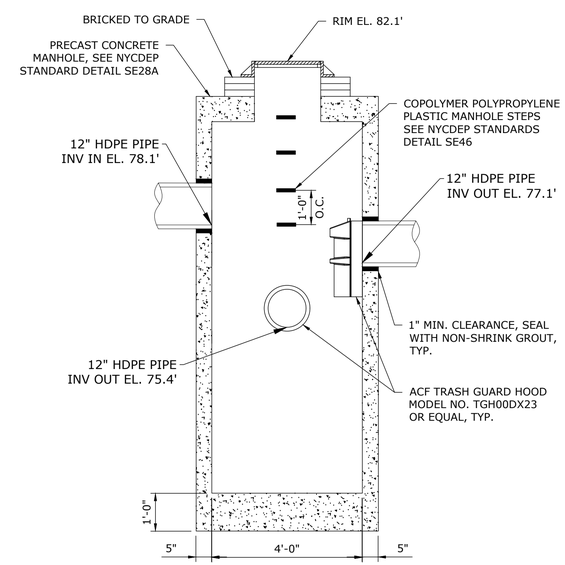
SECTION A-A

1 OUTLET CONTROL STRUCTURE
SCALE: 1" = 2'



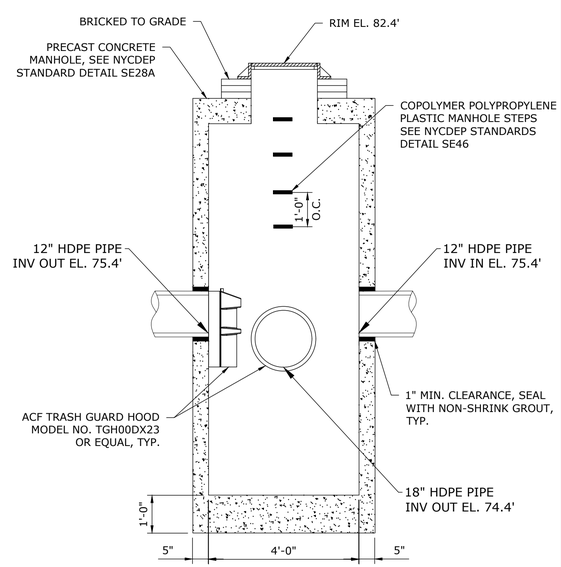
SECTION A-A

2 GI INLET #1
SCALE: 1" = 2'



SECTION A-A

3 MANHOLE #1
SCALE: 1" = 2'



SECTION A-A

4 MANHOLE #2
SCALE: 1" = 2'

Environmental Protection

CITY OF NEW YORK
ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis

NYC Parks

CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

SEAL

STATE OF NEW YORK
WILLIAM A. SCHMIDT
096594
LICENSED PROFESSIONAL ENGINEER

BLOCK
4526

LOT
1

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
ALLERTON PLAYGROUND
LOCATED ON STEDMAN PL & BOUCK AV, BRONX, NY 10469

DRAWING TITLE
DETAILS - 2

DESIGNED BY	DRAWN BY		CHECKED BY
SF/SC	SF/SC		WS
B-SCAN	SCALE: 1" = 2'	DRAWING NO.: C501	CONTRACT NO.: GI-CONS-6
	DATE: NOV 2026		SHEET No. 20 OF 20 SHEETS

NEW YORK CITY ENVIRONMENTAL PROTECTION
BUREAU OF ENVIRONMENTAL PLANNING & ANALYSIS

NYC Parks

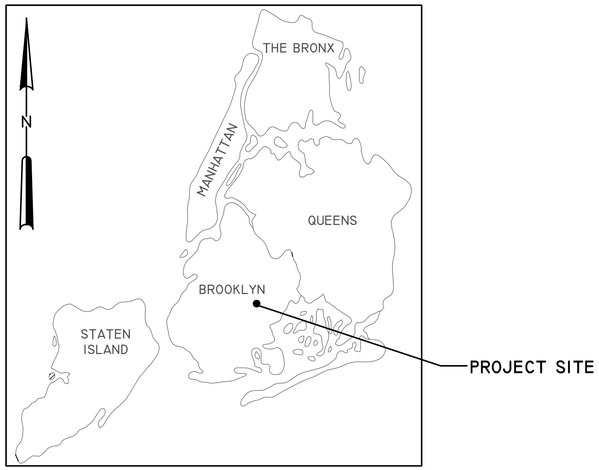
ON-SITE GREEN INFRASTRUCTURE
JAMAICA BAY CSO TRIBUTARY AREA - OUTFALL 26W-003

DEP CAPITAL CONTRACT NO. GI-CONS-6

B270 BROWNSVILLE PLAYGROUND
(BBL 3038680002)
BID SET

BROOKLYN, NY

NOV 2026





LOCATION PLAN

John McLaughlin
Digitally signed by John McLaughlin
Date: 2026.11.03 09:26:30 -05'00'

JOHN MCLAUGHLIN
MANAGING DIRECTOR
OFFICE OF ECOSYSTEM SERVICES, GREEN INFRASTRUCTURE AND RESEARCH
BUREAU OF ENVIRONMENTAL PLANNING & ANALYSIS, NYCDEP

Lisa F. Garcia
Digitally signed by Lisa F. Garcia
Date: 2026.11.02 16:10:42 -05'00'

LISA F. GARCIA
COMMISSIONER
NYCDEP

File = Z:\PROJECTS-SSO\DEP Rack-Gi_2017-0058_GI\7-SERVICE ORDER 1\06_Drawings and Maps\CAD\Brownsville\BID SET\1-1 TITLE PAGE_2020 1006 - Standard.T - 1 TITLE PAGE_2020 1006 Saved Date = 4/14/2025 4:05 PM
PLOT DATE: 4/14/2025 4:49 PM BY: VANUH

GENERAL NOTES

THE FOLLOWING NOTES SHALL APPLY THROUGHOUT. EXCEPTIONS ARE SPECIFICALLY NOTED ON EACH DRAWING.

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING SITE CONDITIONS, BOTH ABOVE AND BELOW THE SURFACE, PRIOR TO COMMENCING WORK. ANY DISCREPANCIES WITH THE INFORMATION SHOWN ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE RESIDENT ENGINEER AND NYCDEP IN WRITING PRIOR TO COMMENCING WORK.
2. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS OF THE SITE.
3. THE CONTRACTOR SHALL, UNLESS OTHERWISE PROVIDED IN THE CONTRACT DOCUMENTS, SECURE AND PAY FOR THE REQUIRED CONSTRUCTION PERMIT(S), FEES, LICENSES AND INSPECTIONS NECESSARY FOR THE PROPER EXECUTION OF THE WORK.
4. COORDINATION OF ALL WORK UNDER THIS CONTRACT SHALL BE MAINTAINED TO ENSURE THE QUALITY AND TIMELY COMPLETION OF THE WORK/PROJECT.
5. THE CONTRACTOR SHALL PERFORM ALL CUTTING AND PATCHING REQUIRED TO COMPLETE THE WORK OR TO MAKE ITS PARTS FIT TOGETHER PROPERLY WITHOUT COMPROMISING THE QUALITY OF THE WORK.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY BRACING AND PROTECTING ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, BREAKAGE, COLLAPSE, DISTORTIONS, AND OFF ALIGNMENTS ACCORDING TO CODES AND STANDARDS OF GOOD PRACTICE.
7. ADDITIONAL NOTES THAT ARE APPLICABLE TO THIS PROJECT MAY BE FOUND THROUGHOUT THE CONTRACT DRAWINGS.

REMOVAL NOTES

1. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS GOVERNING THIS WORK. THE CONTRACTOR SHALL COORDINATE DEMOLITION WITH APPLICABLE AGENCIES, UTILITY COMPANIES, AND/OR SUB-CONTRACTORS.
2. IT IS MANDATORY, AS PER NYS INDUSTRIAL CODE RULE 53, FOR THE CONTRACTOR TO NOTIFY NEW YORK CITY/LONG ISLAND ONE-CALL CENTER, 60 KNICKERBOCKER AVENUE, BOHEMIA NY 11716, TEL 1.800.272.4480. IN ADDITION, ALL UNDERGROUND FACILITY OPERATORS IN THE AREA WHO ARE NOT ONE-CALL MEMBERS, SHALL BE NOTIFIED NOT LESS THAN TWO (2) FULL BUSINESS DAYS AND NOT MORE THAN TEN (10) FULL BUSINESS DAYS BEFORE COMMENCING EXCAVATION. THE ONE-CALL CENTER IS ALWAYS OPEN. THE ONE-CALL CENTER WILL THEN NOTIFY MEMBER FIRMS WITH OPERATIONS IN THE SITE AREA OF THE CONTRACTOR'S PROPOSED EXCAVATION OPERATIONS. THE CONTRACTOR WILL RECEIVE A NOTIFICATION TICKET FROM THE ONE-CALL CENTER WHICH SHOULD BE PRESENTED TO THE RESIDENT ENGINEER AS PROOF OF THE CALL. THERE IS NO CHARGE FOR THIS SERVICE. THIS PROCESS ENSURES THAT UTILITY SERVICE LINES ARE PROPERLY MARKED PRIOR TO EXCAVATION TO MINIMIZE FACILITY DAMAGE, ON THE JOB INJURIES, AND CONTRACTOR'S LIABILITY.
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY DAMAGE AND/OR RESTORE ANY INTERRUPTION TO ANY UTILITY SERVICE THAT MAY BE CAUSED BY THE CONTRACTOR'S CONSTRUCTION OR EQUIPMENT, AT THE CONTRACTOR'S EXPENSE, WITH NO ADDITIONAL EXPENSE TO THE CITY OF NEW YORK.
4. THE CONTRACTOR IS TO USE CARE DURING CONSTRUCTION TO AVOID DISTURBING OR DAMAGING ADJACENT ABOVE-GRADE OR SUBGRADE STRUCTURES, FACILITIES, CURBS, PAVEMENTS, AND PERIMETER FENCING. ANY DAMAGE RESULTING FROM THIS WORK WILL BE RESTORED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
5. WHERE NEW CONSTRUCTION ABUTS EXISTING PAVEMENTS, CURBS, OR WALLS, THE EXISTING MATERIALS SHALL BE CLEANLY SAWCUT TO PROVIDE A CLEAN, NEAT MATCH AND A SMOOTH, FLUSH TRANSITION, AS DIRECTED BY THE RESIDENT ENGINEER. ALL SAWCUTTING SHALL BE DONE TO NEAT, STRAIGHT, AND ACCURATE LINES. CONTRACTOR SHALL PROVIDE EXPANSION JOINTS (TIE ROD AND/OR SLIP JOINT) WHERE OLD AND NEW CURBS MEET.
6. THE CONTRACTOR SHALL TAKE EXTREME CARE TO PROTECT THE ROOT SYSTEMS OF EXISTING TREES. BULK MATERIAL, EQUIPMENT, OR VEHICLES SHALL NOT BE STOCKPILED OR PARKED WITHIN THE DRIPLINE OF ANY TREE.
7. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE APPROPRIATE AGENCIES PRIOR TO COMMENCING WORK.
8. THE CONTRACTOR SHALL REMOVE, EXCAVATE, AND DISPOSE OF ALL MATERIALS ACCORDING TO CONTRACT SPECIFICATIONS.

LAYOUT & MATERIAL NOTES

1. NO CHANGES SHALL BE MADE TO THE DESIGN OR LAYOUT WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER. LAYOUT THE WORK AS DIMENSIONED ON THE PLANS. WRITTEN DIMENSIONS SHALL GOVERN. DO NOT SCALE DISTANCES.
2. CONTRACTOR SHALL LAYOUT IN THE FIELD THE ALIGNMENT AT ALL PATHS, PAVEMENTS AND CURBLINES FOR REVIEW BY THE ENGINEER. ADJUSTMENTS MAY BE MADE ONLY AS DIRECTED BY THE ENGINEER. CONTRACTOR MAY NOT PROCEED WITH CONSTRUCTION OF IMPROVEMENTS UNTIL HE HAS RECEIVED THE FINAL APPROVAL OF THE LAYOUT FROM THE ENGINEER.
3. ALL NEW PAVEMENTS AND CURBS AND EXISTING PAVEMENTS AND CURBS TO REMAIN SHALL MEET IN SMOOTH FLUSH CONDITION UNLESS NOTED OTHERWISE.
4. NEW CURBS, WALLS, AND PAVEMENTS SHALL BE BUILT TO A SMOOTH EVEN FINISH WITH A CONSISTENT TOP AND PROFILE WITHOUT WAVES OR IRREGULARITIES. ANY WORK NOT MEETING THIS QUALITY STANDARD SHALL BE RECONSTRUCTED AT THE CONTRACTOR'S EXPENSE.
5. THE CONTRACTOR SHALL EXERCISE CARE DURING EXCAVATION OPERATIONS TO AVOID DISTURBING ADJACENT FACILITIES, SUB GRADE STRUCTURES AND TREES. ALL DAMAGE RESULTING FROM THE CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE REPAIRED AT NO EXPENSE TO THE CITY AND THE AGENCY. ALL REPAIR WORK SHALL BE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
6. THE CONTRACTOR SHALL TAKE SPECIAL CARE TO PROTECT ALL EXISTING TREES AND THEIR ROOT SYSTEM. EXCAVATIONS WITHIN THE DRIP LINES OF TREES SHALL BE KEPT TO A MINIMUM AND SHALL BE COMPLETED BY HAND ONLY AND SHALL BE PERFORMED IN THE PRESENCE OF THE RESIDENT ENGINEER, AT NO ADDITIONAL EXPENSE TO THE CITY. ROOTS OVER 2" DIAMETER SHALL NOT BE DISTURBED AND BRIDGE CURBS SHALL BE CONSTRUCTED WHERE NECESSARY.
7. IN AREAS WHERE NEW PAVEMENTS FALL WITHIN THE DRIP LINE OF EXISTING TREES, THE CONTRACTOR SHALL MINIMIZE EXCAVATIONS AT TREE ROOTS BY REDUCING THE AMOUNT OF FOUNDATION MATERIAL AS DIRECTED BY ENGINEER.
8. CONTRACTOR SHALL STAKE LOCATION OF THE PRACTICE FOR APPROVAL BY RESIDENT ENGINEER PRIOR TO EXCAVATION WORK.

TREE PROTECTION NOTES

1. CONSTRUCTION ACCESS ROUTE IS DIAGRAMMATIC. FINAL ROUTE SHALL BE ESTABLISHED ON SITE AND APPROVED BY THE RESIDENT ENGINEER, IN CONSULTATION WITH THE BOROUGH FORESTER OR THEIR REPRESENTATIVE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND PRESERVATION OF ALL EXISTING TREES NOT LISTED FOR REMOVAL THAT ARE LOCATED COMPLETELY OR PARTIALLY WITHIN THE CONTRACT LIMIT LINE.
3. THE CONTRACTOR SHALL NOTIFY THE BOROUGH FORESTER A MINIMUM OF 48 HOURS IN ADVANCE OF ANY WORK ON OR IMPACTING EXISTING TREES, INCLUDING BUT NOT LIMITED TO TREE PROTECTION, PRUNING, TREE REMOVAL, EXCAVATION WITHIN TREE PROTECTION ZONES, DECOMPACTION, TOPSOIL, AND PLANTING WORK.
4. THE TREE PROTECTION ZONE (TPZ) ALSO CALLED THE CRITICAL ROOT ZONE (CRZ) SHALL BE DEFINED AS THE AREA WITHIN THE DRIP LINE OF EXISTING TREES, UNLESS OTHERWISE SHOWN ON THE TREE PROTECTION PLAN.
5. THE CONTRACTOR SHALL TAKE EXTREME CARE TO PROTECT THE ROOT SYSTEMS OF EXISTING TREES. MATERIAL, EQUIPMENT, OR VEHICLES SHALL NOT BE STOCKPILED OR PARKED WITHIN THE TPZ OF ANY TREE COMPLETELY OR PARTIALLY WITHIN THE CONTRACT LIMIT LINE TO MINIMIZE SURFACE AND SUBSURFACE ROOT AND SOIL COMPACTION. IF STOCKPILING OCCURS WITHIN THE TPZ, A STOP WORK ORDER SHALL BE ISSUED IMMEDIATELY, AND WORK SHALL NOT RE-COMMENCE UNTIL ALL STOCKPILED MATERIAL IS REMOVED FROM THE TPZ AND MITIGATION MEASURES ARE PERFORMED TO THE SATISFACTION OF THE RESIDENT ENGINEER, IN CONSULTATION WITH THE BOROUGH FORESTER OR THEIR REPRESENTATIVE.
6. IF DIRECTED, THE TREE PROTECTION ZONE SHALL BE COVERED WITH WOOD CHIPS TO A DEPTH OF AT LEAST SIX (6) INCHES, WITH PLYWOOD OR GROUND PROTECTION MATS, OR A COMBINATION THEREOF. SUCH COVERING SHALL BE MAINTAINED FOR THE DURATION OF THE CONTRACT AND IS NOT TO BE REMOVED UNTIL DIRECTED BY THE BOROUGH FORESTER OR THEIR REPRESENTATIVE. REMOVAL SHALL BE BY HAND OR AS SPECIFIED BY THE BOROUGH FORESTER OR THEIR REPRESENTATIVE (ITEM "PROTECT EXIST. TREE ROOTS W/WOODCHIPS 6"DEPTH" AND "PROTECT EXIST. TREE ROOTS W/PLYWOOD").
7. TEMPORARY WOODEN TREE GUARDS WITH WRAP FOR INDIVIDUAL TREES, TEMPORARY WOODEN TREE GUARD FOR GROVES, AND TEMPORARY SNOW FENCE BOUNDARY SHALL BE MAINTAINED FOR THE DURATION OF THE CONTRACT AND ARE NOT TO BE REMOVED UNTIL DIRECTED BY THE BOROUGH FORESTER OR THEIR REPRESENTATIVE.
8. ALL TREES WITHIN THE CONTRACT LIMIT LINE ARE TO RECEIVE AT LEAST ONE (1) INCH (THE EQUIVALENT OF 750 GALLONS OF WATER PER 1,000 SQUARE FEET OF TREE PROTECTION ZONE) OF WATER PER WEEK BETWEEN THE MONTHS OF MARCH AND OCTOBER. IF RAINWATER IN ANY GIVEN WEEK IS BELOW THIS QUANTITY, THE CONTRACTOR MUST SUPPLEMENT THE AMOUNT RECEIVED BY A METHOD APPROVED BY THE BOROUGH FORESTER OR THEIR REPRESENTATIVE.
9. ALL TREE PRUNING AND TREE REMOVAL IS TO BE PERFORMED IN ACCORDANCE WITH ANSI A300 STANDARDS BY AN ARBORIST HOLDING CERTIFICATION FROM THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) OR EQUIVALENT EDUCATION AND EXPERIENCE. ANSI PRUNING TYPES SPECIFIED ON TREE PROTECTION SCHEDULE AND TREE DIAMETERS AT BREAST HEIGHT ARE TO BE CONFIRMED BY THE BOROUGH FORESTER OR THEIR REPRESENTATIVE BEFORE PRUNING WORK IS PERFORMED.
10. THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN REMOVING CONCRETE OR ASPHALT WITHIN THE DRIPLINE OF EXISTING TREES - LIFTING RATHER THAN DRAGGING PIECES OF PAVING. TOOLS FOR THIS ACTIVITY SHALL BE APPROVED BY THE BOROUGH FORESTER OR THEIR REPRESENTATIVE AND THE RESIDENT ENGINEER PRIOR TO THE START OF EXCAVATION.
11. ALL EXCAVATION AND PLANT INSTALLATION WITHIN THE TPZ SHALL BE PERFORMED BY HAND OR PNEUMATICALLY, WITH MINIMAL SOIL DISTURBANCE, AND UNDER THE SUPERVISION OF THE BOROUGH FORESTER OR THEIR REPRESENTATIVE. PLANTS SHALL NOT BE PLACED WITHIN THREE (3) FEET OF THE TREE TRUNK UNLESS APPROVED.
12. NO ROOTS SHALL BE CUT WITHOUT THE WRITTEN AUTHORIZATION OF THE BOROUGH FORESTER OR THEIR REPRESENTATIVE.
13. EXCAVATED AREAS WITHIN THE TPZ SHALL BE BACKFILLED IMMEDIATELY OR ROOTS SHALL BE KEPT CONSTANTLY MOIST WITH BURLAP COVERED WITH WHITE PLASTIC AND CHECKED A MINIMUM OF TWO (2) TIMES A DAY, ONCE IN THE MORNING AND ONCE IN THE AFTERNOON, FOR A MAXIMUM OF FORTY-EIGHT (48) HOURS, UNTIL BACKFILL IS COMPLETE. IF DIRECTED, SOAKER HOSES SHALL BE INSTALLED TO FACILITATE PROPERLY MOIST CONDITIONS. NO POOLING OF OR CONTINUOUS RUNNING WATER SHALL OCCUR WITHIN THE TPZ OTHER THAN THAT DURING THE IRRIGATION PROCESS. IF ROOTS ARE TO BE EXPOSED FOR A PERIOD GREATER THAN 48-HOURS, THE EXPOSED AREA SHALL BE COVERED WITH AT LEAST 6-INCHES MULCH AND MAINTAINED DURING THE COURSE OF CONSTRUCTION UNTIL THE AREA CAN BE PROPERLY BACKFILLED.
14. WHEN A TREE PROTECTION DEFICIENCY, AS DETERMINED BY THE BOROUGH FORESTER OR THEIR REPRESENTATIVE, IS IDENTIFIED, IT MUST BE REMEDIED WITHIN 24-HOURS OF NOTIFICATION BY THE AGENCY. FAILURE TO CORRECT THE DEFICIENCY WITHIN THIS TIMEFRAME WILL RESULT IN A STOP WORK ORDER, LIQUIDATED DAMAGES, OR BOTH.
15. ANY DAMAGE TO EXISTING TREES DURING CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL MITIGATE SUCH DAMAGE AS DIRECTED BY THE BOROUGH FORESTER OR THEIR REPRESENTATIVE, AT THE CONTRACTOR'S EXPENSE.
16. THE CONTRACTOR SHALL BE ASSESSED RESTITUTION FOR TREES THAT ARE INJURED, IRREPARABLY DAMAGED, DESTROYED, OR REMOVED WITHOUT AUTHORIZATION.

DRAINAGE WORK NOTES

1. ALL PROPOSED DRAINAGE WORK SHALL BE DONE IN CONFORMANCE WITH THE LATEST STANDARDS OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION (NYCDEP) AND THE LATEST STANDARDS OF THE DEPARTMENT OF PARKS AND RECREATION (NYCDPR).
2. ALL EXISTING SEWER MANHOLES TO BE RETAINED WITHIN THE CONTRACT LIMITS SHOULD BE ADJUSTED AS NECESSARY, SO THAT THEY WILL BE FLUSH WITH THE FINISHED GRADES AFTER COMPLETION OF THE WORK. ANY OF THESE MANHOLES WHICH HAVE DAMAGED, WORN OR NON-STANDARD FRAMES AND COVERS SHOULD BE PROVIDED WITH NEW CASTINGS IN ACCORDANCE WITH THE LATEST STANDARDS OF NYCDEP AND NYCDPR INCLUDING ANY NECESSARY MODIFICATIONS OF THE MANHOLE MASONRY. ANY DAMAGE TO THE MANHOLES CAUSED BY THIS WORK SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR, AS DIRECTED BY THE ENGINEER, AND AT NO COST TO THE CITY.
3. CARE SHALL BE TAKEN NOT TO DAMAGE EXISTING SEWERS DURING CONSTRUCTION. ANY DAMAGE CAUSED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER, AT NO EXTRA COST TO THE CITY.
4. WHERE THE HEIGHT OF AN EXISTING MANHOLE PERMITS MORE THAN ONE BASIN CONNECTION TO BE MADE ON THE SAME WALL, SPECIAL PRECAUTION SHALL BE TAKEN TO PROTECT THE STRUCTURAL INTEGRITY OF THE MANHOLE. THE MINIMUM CLEARANCE BETWEEN THE OUTSIDE WALLS OF ANY TWO BASIN CONNECTIONS OR BETWEEN A BASIN CONNECTION AND A SEWER, VERTICALLY OR HORIZONTALLY, SHALL BE 12 INCHES.
5. THE COST OF RAISING OR LOWERING CITY-OWNED MANHOLES, BASINS AND INLET HEADS TO PROPOSED GRADES WILL BE DEEMED INCLUDED IN THE PRICES BID FOR ALL THE SCHEDULED ITEMS WHEN THE VERTICAL UPWARD MOVEMENT OF ALL HEADS IS TWENTY-FOUR (24) INCHES OR LESS, WHEN THE VERTICAL DOWNWARD MOVEMENT OF MANHOLE HEADS IS SIX (6) INCHES OR LESS AND WHEN THE VERTICAL DOWNWARD MOVEMENT OF BASIN OR INLET HEADS IS THREE (3) INCHES OR LESS, UNLESS OTHERWISE PROVIDED OR DIRECTED, AND WHERE THE ADJUSTMENT IS WITHIN THE BRICK WORK LIMIT. WHEN THE EXISTING STRUCTURE CONSISTS OF A BRICK CHIMNEY OR A CONCRETE ROOF SLAB OR BRICK ON CONCRETE WALLS, THE MAXIMUM ALLOWABLE HEIGHT OF BRICK AFTER ADJUSTMENT SHALL BE TWENTY-FOUR (24) INCHES. ALL OTHER ADJUSTMENTS WILL BE PAID FOR UNDER THE APPROPRIATE MANHOLE, BASIN OR INLET MODIFICATION ITEMS.
6. ALL ABANDONED BASINS, INLETS AND DRAINAGE STRUCTURES AS SHOWN ON THE CONTRACT PLANS ARE TO BE BULK-HEADED AND CUT DOWN TO TWO (2) FEET BELOW THE SUBGRADE AND FILLED WITH COMPACTED CLEAN SAND. BASIN CONNECTIONS NOT REQUIRED SHALL BE PLUGGED AT BOTH ENDS. COST FOR THIS WORK SHALL BE DEEMED INCLUDED IN PRICES BID FOR ALL SCHEDULED ITEMS.
7. CATCH BASINS SHALL NOT, UNDER ANY CIRCUMSTANCES, BE CONNECTED TO SANITARY SEWERS.
8. ALL NEW CATCH BASIN CONNECTIONS SHALL BE CONNECTED TO EXISTING SEWERS AT MANHOLES, WITH DUCTILE IRON PIPE, CLASS 56, WITH INTERNALLY LOCKED "PUSH-ON" JOINTS LAID ON 6" OF BROKEN STONE FOR THE ENTIRE WIDTH OF THE TRENCH AND FOR ONE-HALF THE PIPE DIAMETER. THE BROKEN STONE SHALL BE HARD UNWEATHERED STONE UNIFORMLY GRADED FROM 1/4" TO 3/4"IN DIAMETER. IT SHALL CONFORM TO COMMERCIAL 1/4" TO 3/4" STONE. ALL NEW CATCH BASINS SHALL HAVE A HOOD ON THE OUTLET PIPE.
9. SLOPE ON ALL NEW CATCH BASIN CONNECTIONS SHALL BE A MINIMUM OF 1/2% AND A MAXIMUM OF 4% PROVIDED THE TOTAL DROP BETWEEN THE BASIN AND THE BASIN/MANHOLE IS AT LEAST 6 INCHES.
10. CATCH BASINS IN THE PROJECT AREA SHALL BE MAINTAINED OPERABLE AT ALL TIMES. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO AVOID FILLING THE CATCH BASINS WITH DEBRIS WITHIN THE CONTRACT LIMITS DURING THE CONTRACT OPERATIONS. IF, AS A RESULT OF CONSTRUCTION, A FLOODING CONDITION OCCURS OR IN THE EVENT THE CONTRACTOR'S OPERATIONS DAMAGE OR BLOCK THE DRAINAGE SYSTEM, THE CONTRACTOR SHALL AT HIS/HER OWN EXPENSE IMMEDIATELY REPAIR OR RESTORE THE DRAINAGE SYSTEM AS DIRECTED BY THE ENGINEER AT NO EXTRA COST TO THE CITY.
11. CONTRACTOR SHALL PROVIDE TEMPORARY MEANS (PIPES, PUMPS, ETC.) TO DRAIN ANY STORM WATER WHICH MAY DEVELOP WITHIN THE PROJECT LIMITS FOR THE DURATION OF CONSTRUCTION. CONTRACTOR SHALL SUBMIT A DRAINAGE SCHEME WHICH MUST BE APPROVED BY THE ENGINEER, PRIOR TO THE START OF EACH CONSTRUCTION STAGE. COST OF THIS WORK WILL BE DEEMED TO HAVE BEEN INCLUDED IN THE PRICE BID FOR ALL SCHEDULED ITEMS.
12. ALL EXISTING SEWERS AND SEWER HOUSE CONNECTIONS SHOULD BE CONTINUOUSLY MAINTAINED DURING CONSTRUCTION. IF ANY SEWER OR SEWER HOUSE CONNECTION IS TO BE DISCONNECTED FOR CONSTRUCTION PURPOSES, FLOW SHALL BE MAINTAINED BY FLUMING OF OTHER SUITABLE MEANS AS DIRECTED BY THE ENGINEER AND IN SUCH A MANNER THAT NO BACK-UPS OCCUR. EXISTING SEWERS, HOUSE CONNECTIONS OR OTHER SEWER APPURTENANCES WHICH ARE TO REMAIN, AND WHICH MIGHT BE DISTURBED FOR CONSTRUCTION PURPOSES SHALL BE RESTORED TO THEIR PRESENT CONDITION AFTER COMPLETION OF THE WORK, AND DAMAGE DONE AS A RESULT OF THE WORK SHALL BE REPAIRED AT NO EXTRA COST TO THE CITY.

EROSION AND SEDIMENT CONTROL NOTES

1. ALL SEDIMENT CONTROL ELEMENTS SHALL BE INSTALLED PRIOR TO ANY MAJOR SURFACE DISTURBANCE, IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL SITE PAVEMENT IS COMPLETED.
2. ALL EROSION CONTROL PRACTICES SHALL BE CHECKED AFTER EACH RAIN EVENT TO ENSURE THEY ARE IN GOOD REPAIR AND IN WORKING CONDITION. DAMAGE TO ANY PRACTICE SHALL BE REPAIRED IMMEDIATELY.
3. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST STATE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW YORK.
4. ALL APPLICABLE SEDIMENT CONTROL PRACTICES SHALL BE LEFT IN PLACE UNTIL CONSTRUCTION IS COMPLETED AND/OR THE AREA OS STABILIZED.
5. SOIL STOCKPILES ARE NOT TO BE LOCATED WITHIN FIFTY FEET OF DRAINAGE INLETS, ROADWAYS, OR DRAINAGE STRUCTURES. THE BASE OF ALL STOCKPILES SHOULD BE PROTECTED BY A HAY BALE BARRIER.
6. ALL CATCH BASIN INLETS SHALL BE PROTECTED DURING CONSTRUCTION.

SURVEY NOTES

1. VERTICAL DATUM - NAVD 1988 AND HORIZONTAL DATUM - NY LONG ISLAND STATE PLANE COORDINATE SYSTEM; BASED ON GPS OBSERVATIONS BY MATRIX NEW WORLD ON MARCH 21, 2019 AND REFERRING TO LEICA SMARTNET CONTINUOUSLY OPERATING REFERENCE STATION (CORS) NETWORK, NATIONAL GEODETIC SURVEY MONUMENT: CORS STATION "NYCI, NYBP, SHK6".
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3. NO VERIZON OR FIBER OPTIC COMMUNICATIONS UTILITIES ARE KNOWN TO OCCUR ON THIS SITE.

SHEET LIST TABLE

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B-1	BORING PLAN
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PARKS & RECREATION
Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

SEAL

STATE OF NEW YORK · FRANCO ANDRE MONTALTO · 090284 · LICENSED PROFESSIONAL ENGINEER

BLOCK 3868
LOT 2

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
BROWNSVILLE PLAYGROUND
BETWEEN MOTHER GASTON BLVD, HEGEMAN AVE AND LINDEN BLVD, BROOKLYN, NY

DRAWING TITLE
GENERAL NOTES

DESIGNED BY	DRAWN BY	CHECKED BY
-----	-----	KT

B-SCAN

SCALE: NO SCALE
DATE: NOV 2026
DRAWING NO.: T-2
CONTRACT NO.: ----
SHEET No. 2 OF 29 SHEETS

ABBREVIATIONS

ABANDONED	ABDN.
APARTMENT	APT.
ASPHALT	ASPH.
BASEMENT	BSMT.
BITUMINOUS	BIT.
BLOCK	BLK.
BLUESTONE	B.S.
BLUESTONE CURB	B.S.C.
BLUESTONE WALK	B.S.W.
BOTTOM OF CURB	B.C.
BRICK	BRK.
BRICK CURB	BRK.C.
BUILDING	BLDG.
BUILT	BLT.
CALIPER	CAL.
CAST IRON	C.I.
CENTER LINE	C.L.
CHAIN LINK FENCE	C.L.F.
CHAMBER	CH.
CLASS NUMBER	CL. #
COMBINED	COMB.
COMMERCIAL	COMM.
CONCRETE	CONC.
CONCRETE CURB	C.C.
CONCRETE WALK	C.W.
DIAMETER	DIA.
DOUBLE BARREL	D.B.
DOWN	DN.
DRAWING	DWG.
DUCTILE IRON PIPE	D.I.P.
EXISTING	EXIST.
EXTRA STRENGTH VITRIFIED PIPE	E.S.V.P.
FIRE ALARM	F.A.
FIRE DEPARTMENT	F.D.
FLAT TOP REINFORCED CONCRETE	F.T.R.C.
FRAME	FR.
GRANITE	GRAN.
GRANITE CURB	GRAN. C.
INTERCEPTOR	INT.
INVERT ELEVATION	INV.
IRREGULAR	IRR.
JUNCTION	JUNC.
LANDSCAPED AREA	L.S.A
MANHOLE	MH
NOT IN CONTRACT	N.I.C.
NOT TO SCALE	N.T.S.
PAVEMENT	PVMT.
POINT OF CURVATURE	P.C.
POINT OF INTERSECTION	P.I.
POINT OF TANGENCY	P.T.
PRECAST REINFORCED CONCRETE	P.R.C.
RADIUS	R
REINFORCED CONCRETE PIPE	R.C.P.
ROADWAY	RDWY.
SANITARY	SAN.
SEWER	SWR.
SIDEWALK	SW.
STANDARD	STD.
STEAM	ST.
STEEL	STL.
STEEL FACED CURB	SFC
STEEL NOSED CURB	S.N.C.
STONE	STN.
STORM	STM.
STORY	STY.
TOP OF CURB	T.C.
TRAFFIC SIGN	T.S.
VACANT	VAC.
WORKING POINT	W.P.

LEGEND

	EXISTING	PROPOSED
MANHOLES		
ELECTRIC	(E) [E]	
CABLE TV	[C]	
TELEPHONE	(T)	
TRAFFIC	[T]	
NYC MH	□NYC	
GAS	(G)	
WATER	(W)	
WATER METER	[W]	
FIRE DEPT.	(F)	
SUBWAY	(SU)	
COAL CHUTE	○CC	
STORM SEWER	(S)STM	●STM
COMBINED SEWER	(S)COMB	●COMB
SANITARY SEWER	(S)SAN	●SAN
INTERCEPTOR SEWER	(S)INT	●INT
UNIDENTIFIED MANHOLE (NO RECORD AVAILABLE)	(MH)	
BUILT MANHOLE REPLACED BY NEW MANHOLE		◉
RECORD MANHOLE	(S)	
HARDWARE RIM EL. & INV. EL. (SEWER, ETC.)	(S) 61.23 INV.47.89	
INLETS/OUTLETS		
STORMWATER INLET		INLET
ROWB, ROWG, ROWSGS INLET		
ROWB, ROWG, ROWSGS OUTLET		OUTLET
CATCH BASINS		
CATCH BASIN WITH CURB PIECE - TYPE 1	1	□
CATCH BASIN WITHOUT CURB PIECE - TYPE 2	2	□
CATCH BASIN WITHOUT CURB PIECE - TYPE 3	3	□
EXISTING CATCH BASIN TO BE REMOVED		
TO BE ABANDONED		A
TO BE MODIFIED		M
TO BE ADJUSTED		A
CATCH BASIN - NON-STANDARD		N
NEW CATCH BASIN TO BE CONSTRUCTED IN SAME LOCATION AS OLD BASIN		
INLET	◪	
SEEPAGE BASIN	○SB	●SB
HYDRANTS		
LOW PRESSURE HYDRANT		
HIGH PRESSURE HYDRANT		
LOW PRESSURE HYDRANT TO BE RELOCATED		R
HIGH PRESSURE HYDRANT TO BE RELOCATED		R
LOW PRESSURE HYDRANT TO BE ADJUSTED (VERTICALLY)		A
HIGH PRESSURE HYDRANT TO BE ADJUSTED (VERTICALLY)		A
SIAMESE CONNECTION		
STREET LIGHTING AND TRAFFIC SIGNALS		
WOOD UTILITY POLE		
WOOD UTILITY POLE WITH STREET LIGHT		
WOOD UTILITY POLE WITH TRAFFIC SIGNAL		T
WOOD UTILITY POLE WITH STREET LIGHT AND FIRE ALARM BOX		F
WOOD UTILITY POLE WITH FIRE ALARM BOX		F
WOOD UTILITY POLE WITH PEDESTRIAN SIGNAL		PS
WOOD UTILITY POLE WITH TRAFFIC AND PEDESTRIAN SIGNAL		TPS
WOOD UTILITY POLE WITH STREET LIGHT AND TRAFFIC AND PEDESTRIAN SIGNAL		TPS
WOOD UTILITY POLE WITH STREET LIGHT AND PEDESTRIAN SIGNAL		PS
STREET LIGHT (METAL POLE)		
STREET LIGHT AND TRAFFIC SIGNAL		T
STREET LIGHT AND TRAFFIC SIGNAL WITH PEDESTRIAN SIGNAL		TPS
STREET LIGHT WITH PEDESTRIAN SIGNAL		PS
STREET LIGHT WITH FIRE ALARM BRACKET		F
TRAFFIC SIGNAL POST		T
TRAFFIC SIGNAL CONTROL BOX		
STANCHION WITH TRAFFIC SIGNAL		T
STANCHION W/PEDESTRIAN SIGNAL		TPS
TRAFFIC SIGNAL POST W/PEDESTRIAN SIGNAL		TPS
VALVE BOXES		
GAS	□G	
WATER	□W	
STEAM	□St	
UNKNOWN	□ ?	
GEOTECHNICAL		
BORING LOCATION	●B	
PERMEABILITY TEST LOCATION	◇PT	
SURVEY CONTROLS		
CONTROL SURVEY TRAVERSE		
CENTER LINE BASE LINE	10+00 10+50	

LEGEND

	EXISTING	PROPOSED
TREES		
EXISTING TREE		
DRIPLINE		
CRITICAL ROOT ZONE (CRZ)		
EXISTING TREE TO BE REMOVED		
NEW TREE TO BE PLANTED		
SHRUB		
HEDGE (HEIGHT AS LABELED)		
MISCELLANEOUS		
VAULT (SIDEWALK)	V	
CELLAR WINDOW GRATING		
CELLAR DOOR	CD	
SUBWAY GRATING		
STORMWATER RUNOFF		
TRAFFIC DIRECTION		
PARKING METER		
OIL FILL CAP OR OIL VENT	◎ OR ○FILL	
FIRE ALARM BOX	□F	
POLICE CALL BOX	□P	
MAIL BOX, PUBLIC PHONE	□MB □TEL.	
COLUMN - FOUNDATION (OF ELEVATED STRUCTURES)	⊠ OR ▣	
HEADER		
AREA OF ADJUSTMENT		
LIMIT OF NEW PAVEMENT		
BUS PAD		
SIGN (GROUND MOUNTED)		
SIGN (OVERHEAD)		
TRAIN STATION ENTRANCE	DOWN	
SHAFT TO BUILDING BASEMENT	SH	
PEDESTRIAN RAMP		
CURB (CONCRETE UNLESS OTHERWISE INDICATED)		
CURB WITH DROP CURB (DRIVEWAY)	DC	DC
EDGE OF PAVEMENT WITHOUT CURB		
PROPOSED CONSTRUCTION (TOP OF CURB) ELEVATION AND STATION		T.C. 13.8 STA. 26+33
ROCK OUTCROP		
NORTH ARROW		
SURVEY MARKER		
BARRIERS		
BEAM TYPE MALL BARRIER		
PORTABLE PRECAST CONCRETE BARRIER		
CAST IN PLACE CONCRETE BARRIER		
RETAINING WALL (W/TYPE)		RW (STN.)
RAILROAD/TROLLEY TRACK		
FENCE (WITH HEIGHT AND TYPE)		
CHAIN LINK FENCE	6' C.L.F.	
IRON PICKET FENCE	5' I.F.	
WIRE FENCE	5' WIRE F.	
IRON ON CONCRETE COPING		
WOOD PICKET FENCE AND VINYL FENCE	4' W.F. / 4' V.F.	
GUARD POST	GP	
BUILDINGS		
HOUSE INFORMATION (HOUSE NUMBER, BLDG TYPE, FIRST FLOOR ELEV., (CE) CELLAR ENTR., (GE) GARAGE ENTR.)		95-02 2-STY.FR. ▼ FF 25.3 G.E.17.5
STAIRS OR STOOPS		
CANOPY		CANOPY
ENTRANCE**		

LEGEND

	EXISTING	PROPOSED
LEGAL DATA		
LOT & BLOCK NUMBER	39 BLOCK 2109	
ESTABLISHED/LEGAL GRADE	0.00	
ANGLE	86°30'48"	
BLOCK LENGTH	167.01' (65.75 m)	
INTERPOLATED/CALCULATED ANGLE OR LENGTH	[86°30'48"] [167.01'(65.75 m)]	
MAPPED PROPERTY LINE (RIGHT-OF-WAY LINE)	PL	
LOT LINE		
SURVEY MONUMENT (CITY) - IDENTIFY BY TOPO NUMBER	⊞M#	
BENCH MARK (LABEL)	⊼BM#	
CONDUITS		
6" WATER MAIN	6" WATER	
8" WATER MAIN	8" WATER	
12" WATER MAIN	12" WATER	
16" WATER MAIN*	16" WATER	
20" WATER MAIN*	20" WATER	
24" WATER MAIN*	24" WATER	
30" WATER MAIN*	30" WATER	
36" WATER MAIN*	36" WATER	
42" WATER MAIN*	42" WATER	
48" WATER MAIN*	48" WATER	
STORM SEWER (WITH SIZE - LESS THAN 24")	15" STM. SEWER	15" STM. SEWER
STORM SEWER (WITH SIZE - 24" AND GREATER)*	24" STM. SEWER	24" STM. SEWER
SANITARY SEWER (WITH SIZE - LESS THAN 24")	15" SAN. SEWER	15" SAN. SEWER
SANITARY SEWER (WITH SIZE - 24" AND GREATER)*	24" SAN. SEWER	24" SAN. SEWER
COMBINED SEWER (WITH SIZE - LESS THAN 24")	15" COMB. SEWER	15" COMB. SEWER
COMBINED (WITH SIZE - 24" AND GREATER)*	24" COMB. SEWER	24" COMB. SEWER
INTERCEPTOR SEWER (WITH SIZE - LESS THAN 24")	15" INTERCEPTOR SEWER	15" INTERCEPTOR SEWER
INTERCEPTOR SEWER (WITH SIZE - 24" AND GREATER)*	24" INTERCEPTOR SEWER	24" INTERCEPTOR SEWER
CATCH BASIN CONNECTION		
GAS LINE (WITH SIZE)	4" GAS	
STEAM (WITH SIZE)	16" STEAM	
ELECTRIC	ELECTRIC	
TELEPHONE	TELEPHONE	
CABLE	CABLE	
FIRE ALARM	FIRE ALARM	
OVERHEAD (AERIAL) UTILITY LINE	A/E,T,F	
TA SUBWAY CONDUIT		

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BLOCK 3868

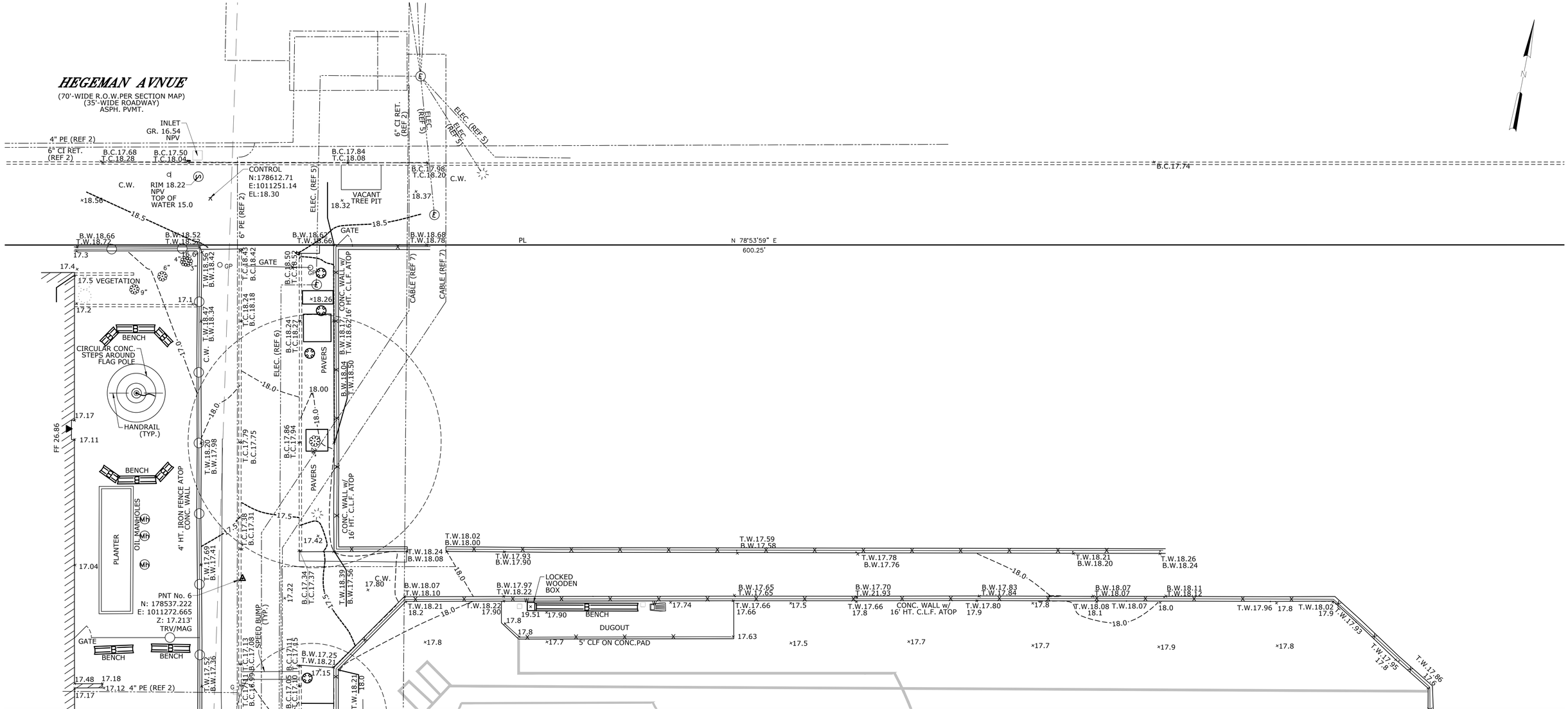
LOT 2

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
BROWNSVILLE PLAYGROUND
BETWEEN MOTHER GASTON BLVD, HEGEMAN AVE AND LINDEN BLVD, BROOKLYN, NY

DRAWING TITLE
EXISTING LEGEND

DESIGNED BY	DRAWN BY	CHECKED BY
----	AR	KT

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	NO SCALE	T-3	----
	DATE NOV 2026		SHEET No. 3 OF 29 SHEETS



MATCHLINE - SEE SHEET S-2

NOTES

1. VERTICAL DATUM - NAVD 1988 AND HORIZONTAL DATUM - NY LONG ISLAND STATE PLANE COORDINATE SYSTEM NAD83; BASED ON GPS OBSERVATIONS BY MATRIX NEW WORLD ON MAY 10, 2019 AND REFERRING TO LEICA SMARTNET CONTINUOUSLY OPERATING REFERENCE STATION (CORS) NETWORK, NATIONAL GEODETIC SURVEY MONUMENT: CORS STATION "ZNY1, NYBP, SHK5".
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REFERENCES

1. BOUNDARY INFORMATION SHOWN HEREON PER THE FOLLOWING:
   - A. A MAP ENTITLED "SECTION 12 OF THE KINGS COUNTY LAND MAP, ADOPTED BY THE BOARD OF ESTIMATE ON 13th MAY, 1954", MAP SHOWING A CHANGE IN THE STREET SYSTEM BY ELIMINATING THE LINES OF CHRISTOPHER AVENUE.
   - B. A MAP ENTITLED "SECTION MAP 047, COPYRIGHT 2016 - OFFICE OF THE BROOKLYN BOROUGH PRESIDENT, CITY OF NEW YORK", LAST UPDATED ON 06/09/2016. (NOTE: LEGAL GRADE INFORMATION ALSO TAKEN FROM THIS MAP.)
   - C. TAX LOT INFORMATION PER NEW YORK CITY DEPARTMENT OF FINANCE DIGITAL TAX MAP WEBSITE.
2. GAS: NATIONAL GRID GAS UTILITY PLATE No. 52A-83 & 52A-84.
3. WATER: NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION WATER MAPPING.
4. SEWER: NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION SEWER MAPPING.
5. ELECTRIC: CONSOLIDATED EDISON COMPANY OF NEW YORK INC. - BROOKLYN-QUEENS CONDUIT AND DUCT OCCUPANCY; LOW TENSION MAINS AND SERVICE PLATE No. 29-AD.
6. ELECTRIC: A MAP ENTITLED "ELECTRICAL SITE PLAN, AS-BUILT DRAWING CONSTRUCTED BY ERIC VITALE INTERPHASE ELECTRIC CORP., DATED 12-9-2016"
7. CABLE: A MAP ENTITLED "CABLEVISION SYSTEMS CORP, OPTIMUM TV, AS-BUILT, BROOKLYN, NY, NODE: 2L01-34B001", DATED 01/30/2013.

5 0 5 10
SCALE: 1" = 10'

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BLOCK 3868
LOT 2

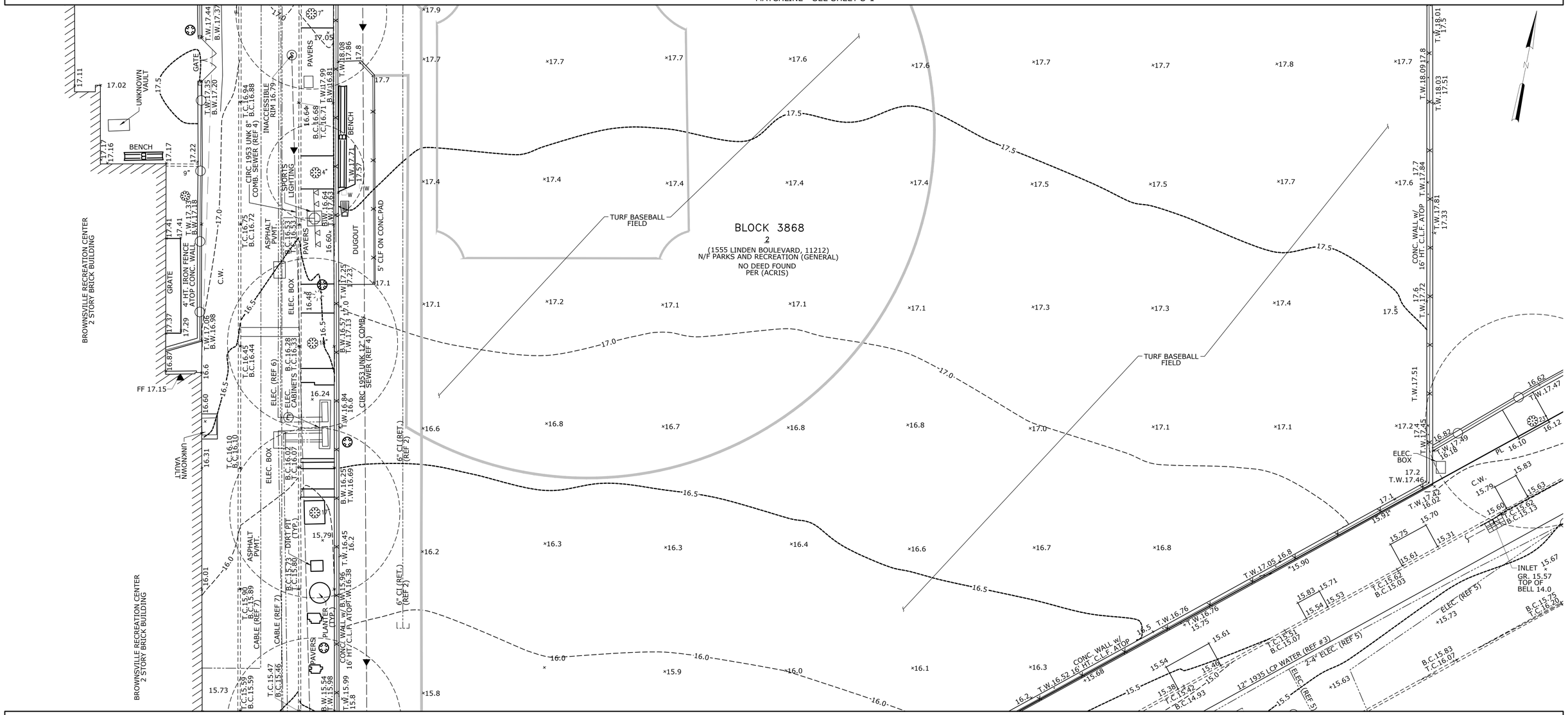
PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
BROWNSVILLE PLAYGROUND
BETWEEN MOTHER GASTON BLVD, HEGEMAN AVE AND LINDEN BLVD, BROOKLYN, NY

DRAWING TITLE
TOPOGRAPHIC SURVEY

DESIGNED BY	DRAWN BY	CHECKED BY
----	MATRIX NEW WORLD	MATRIX NEW WORLD

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 10'	S-1	----
	DATE: NOV 2026		SHEET No. 4 OF 29 SHEETS

MATCHLINE - SEE SHEET S-1



MATCHLINE - SEE SHEET S-3

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LOT 2

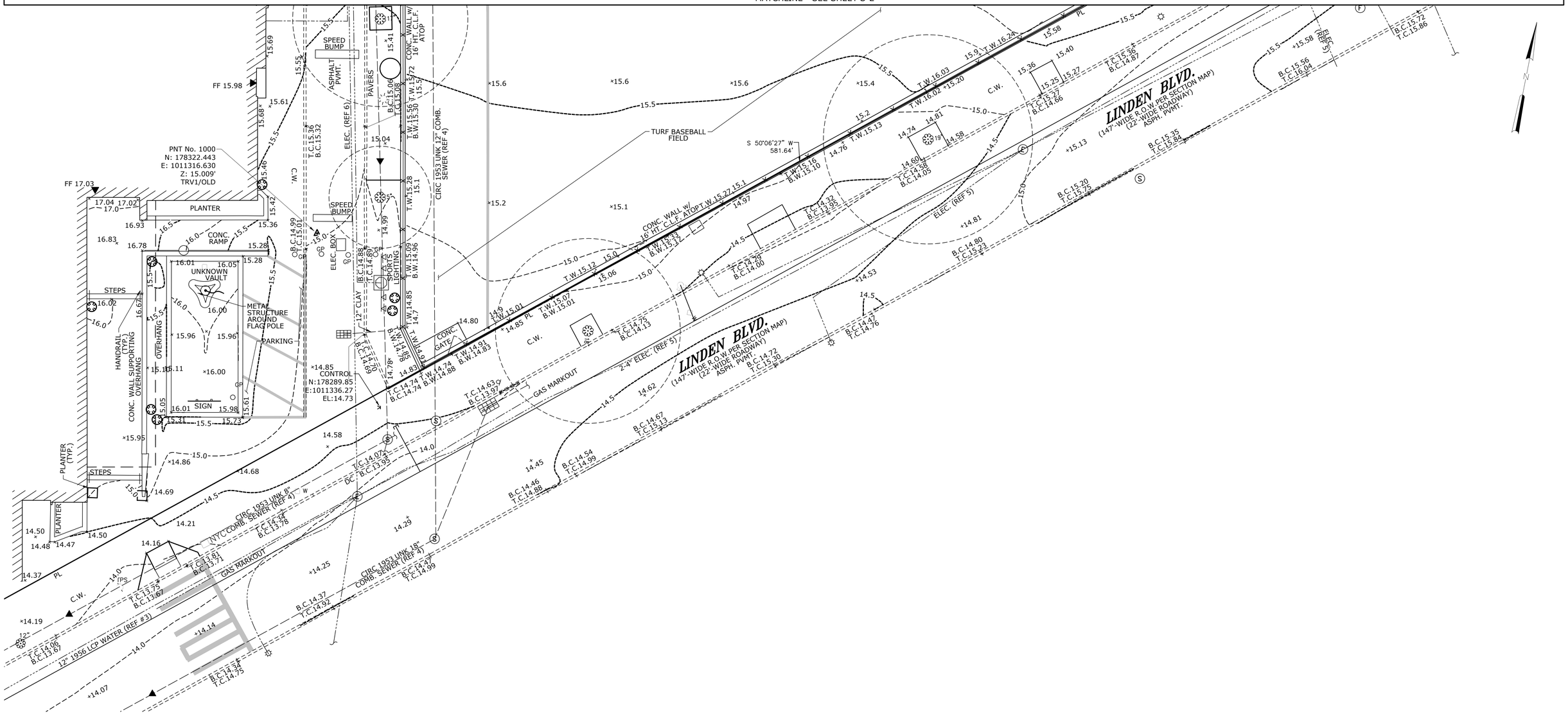
PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
BROWNSVILLE PLAYGROUND
BETWEEN MOTHER GASTON BLVD, HEGEMAN AVE AND LINDEN BLVD, BROOKLYN, NY

DRAWING TITLE
TOPOGRAPHIC SURVEY

DESIGNED BY	DRAWN BY	CHECKED BY
----	MATRIX NEW WORLD	MATRIX NEW WORLD

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 10'	S-2	----
	DATE NOV 2026		SHEET No. 5 OF 29 SHEETS

MATCHLINE - SEE SHEET S-2



NOTES

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1. BOUNDARY INFORMATION SHOWN HEREON PER THE FOLLOWING:
   A. A MAP ENTITLED "SECTION 12 OF THE KINGS COUNTY LAND MAP, ADOPTED BY THE BOARD OF ESTIMATE ON 13th MAY, 1954", MAP SHOWING A CHANGE IN THE STREET SYSTEM BY ELIMINATING THE LINES OF CHRISTOPHER AVENUE.
   B. A MAP ENTITLED "SECTION MAP 047, COPYRIGHT 2016 - OFFICE OF THE BROOKLYN BOROUGH PRESIDENT, CITY OF NEW YORK", LAST UPDATED ON 06/09/2016. (NOTE: LEGAL GRADE INFORMATION ALSO TAKEN FROM THIS MAP.)
   C. TAX LOT INFORMATION PER NEW YORK CITY DEPARTMENT OF FINANCE DIGITAL TAX MAP WEBSITE.
2. GAS: NATIONAL GRID GAS UTILITY PLATE No. 52A-83 & 52A-84.
3. WATER: NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION WATER MAPPING.
4. SEWER: NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION SEWER MAPPING.
5. ELECTRIC: CONSOLIDATED EDISON COMPANY OF NEW YORK INC. - BROOKLYN-QUEENS CONDUIT AND DUCT OCCUPANCY; LOW TENSION MAINS AND SERVICE PLATE No. 29-AD.
6. ELECTRIC: A MAP ENTITLED "ELECTRICAL SITE PLAN, AS-BUILT DRAWING CONSTRUCTED BY ERIC VITALE INTERPHASE ELECTRIC CORP., DATED 12-9-2016"
7. CABLE: A MAP ENTITLED "CABLEVISION SYSTEMS CORP, OPTIMUM TV, AS-BUILT, BROOKLYN, NY, NODE: 2L01-34B001", DATED 01/30/2013.

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BLOCK 3868

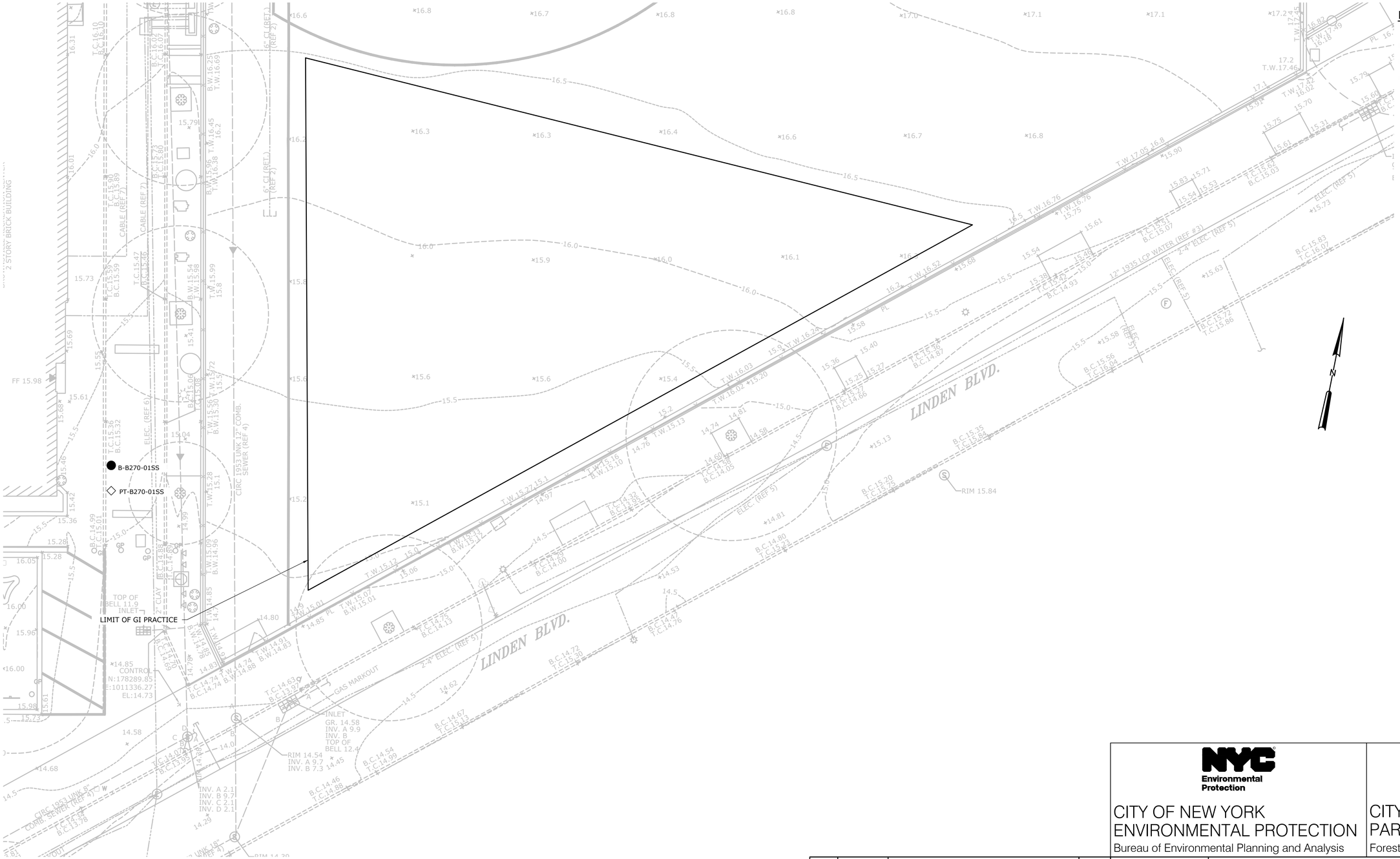
LOT 2

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
BROWNSVILLE PLAYGROUND
BETWEEN MOTHER GASTON BLVD, HEGEMAN AVE AND LINDEN BLVD, BROOKLYN, NY

DRAWING TITLE
TOPOGRAPHIC SURVEY

DESIGNED BY	DRAWN BY	CHECKED BY
----	MATRIX NEW WORLD	MATRIX NEW WORLD

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 10'	S-3	----
	DATE: NOV 2026		SHEET No. 6 OF 29 SHEETS



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BLOCK 3868
LOT 2

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
BROWNSVILLE PLAYGROUND
BETWEEN MOTHER GASTON BLVD, HEGEMAN AVE AND LINDEN BLVD, BROOKLYN, NY

DRAWING TITLE
BORING PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
----	AR	KT

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 10'	B-1	GI-CONS-6
	DATE: NOV 2026		SHEET No. 7 OF 29 SHEETS

B-B270-01SS BORING LOG

Depth Below Ground Surface (ft)	Soil Description (Field Observations)	SPT Blows per 6"	N Value	Recovery Length (inches)	Remarks
0	Asphalt - 2"				
	Light brown (silty-clay [bottom 1ft])/dark brown (medium-fine sand [top 1 ft]); moderate moisture; moderate compaction, SW-ML (Bulk Sample 1 (S1))	1, 1, 1, 3	2	18	Sample contains sinter.
5	Light brown; silty-clay; slight moisture; moderate-high compaction; ML-CL (Bulk Sample 2 (S2))	1, 1, 2, 1	3	21	Sample contains glass fragments and sinter.
	Medium brown; silty-clay, moderate moisture; high compaction; ML-CL (Bulk Sample 3 (S3))	1, 2, 2, 3	4	17	Sample contains rock fragments and sinter.
10	Medium brown; medium-fine sand with silt; moderate moisture; moderate compaction; SW-SM (Bulk Sample 4 (S4))	1, 1, 1, 3	2	22	Sample contains traces of sinter and brick.
	Light brown; course-fine sand with traces of silt; moderate moisture; moderate compaction; SW (Bulk Sample 5 (S5))	3, 4, 6, 5	10	17	
	Light brown with orange tint; course-fine sand with traces of silt; high moisture; moderate compaction; SW (Bulk Sample 6 (S6))	4, 4, 3, 6	7	16	
15					
	B-B270-01SS				Boring terminated at 15 feet below ground surface unless otherwise instructed.

PERMEABILITY TEST SUMMARY				
Location	Test Depth	Average Permeability for In-Situ Testing 1 (Inches/hour)	Average Permeability for In-Situ Testing 2 (Inches/hour)	Average Permeability for In-Situ Testing (Inches/hour)
PT-B270-01SS	3	3.5595	2.8149	3.1872
	5	0.0097	0.0049	0.0073

PT-B270-01SS, PERMEABILITY TEST

NOTE: DUE TO A NEW YORK CITY DEPARTMENT OF PARKS AND RECREATION EVENT A 10 FOOT BGS PERMEABILITY TEST WAS UNABLE TO BE PERFORMED.

Boring ID	LABORATORY SAMPLE RESULTS		
	Depth (ft)	USCS Symbol	% Passing No. 200 Sieve
B-B270-1SS	3'-5'	CL-ML	52.80%
	5'-7'	CL-ML	66.20%
	7'-9'	SC-SM	39.80%
	9'-11'	SP-SM	7.30%
	11'-13'	SM	28.80%
	13'-15'	SP-SM	9.70%

B-B270-01SS, LAB SAMPLE RESULTS

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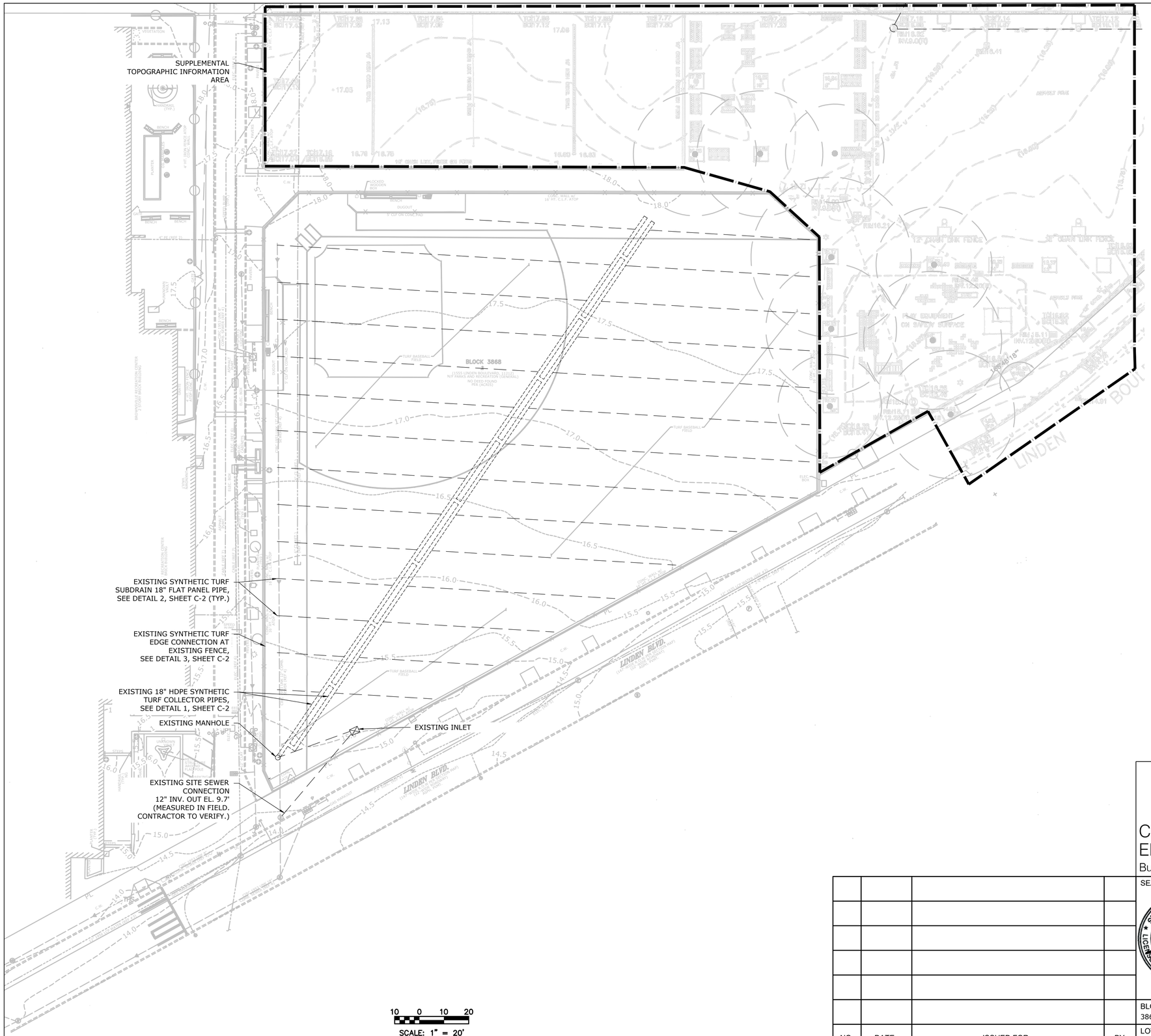
BLOCK 3868
LOT 2

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
BROWNSVILLE PLAYGROUND
BETWEEN MOTHER GASTON BLVD, HEGEMAN AVE AND LINDEN BLVD, BROOKLYN, NY

DRAWING TITLE
BORING LOGS AND PERMEABILITY TESTS

DESIGNED BY	DRAWN BY	CHECKED BY
----	AR	KT

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	NO SCALE	B-2	GI-CONS-6
	DATE NOV 2026		SHEET No. 8 OF 29 SHEETS



LEGEND

- EXISTING TURF FIELD UNDERDRAIN PIPE
- EXISTING 18" COLLECTOR PIPES
- SUPPLEMENTAL TOPOGRAPHIC INFORMATION BOUNDARY

EXISTING CONDITION NOTES

1. EXISTING CONDITION INFORMATION IS FOR REFERENCE ONLY. THE ENGINEER OFFERS NO GUARANTEE TO THE ACCURACY OF THIS INFORMATION TO THE FIELD CONDITIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL FIELD CONDITIONS PRIOR TO COMMENCING WORK.
2. SUPPLEMENTAL TOPOGRAPHIC INFORMATION FOR TRIBUTARY DRAINAGE AREA DELINEATION ONLY.
3. EXISTING DRAINAGE LAYOUT INFORMATION TAKEN FROM CONSTRUCTION AS-BUILT DRAWINGS OBTAINED FROM THE CITY OF NEW YORK PARKS & RECREATION FOR THE SITE TITLED "RECONSTRUCTION OF THE ASPHALT BALLFIELD AT THE BROWNSVILLE RECREATION CENTER PLAYGROUND", CONTRACT NO. B270-107M, DRAWN BY ATLAS ROLL-OFF CORP., DATED JUNE 19, 2008.
4. SUPPLEMENTAL TOPOGRAPHIC INFORMATION TAKEN FROM CONSTRUCTION DRAWINGS OBTAINED FROM THE CITY OF NEW YORK PARKS & RECREATION FOR THE SITE TITLED "CONTRACT DRAWINGS FOR THE RECONSTRUCTION OF THE ASPHALT BALLFIELD AT THE BROWNSVILLE RECREATION CENTER PLAYGROUND BOUNDED BY LINDEN BOULEVARD, HEGEMAN AND CHRISTOPHER AVENUES, BOROUGH OF BROOKLYN", CONTRACT NO. B270-107M DATED DECEMBER 21, 2006.

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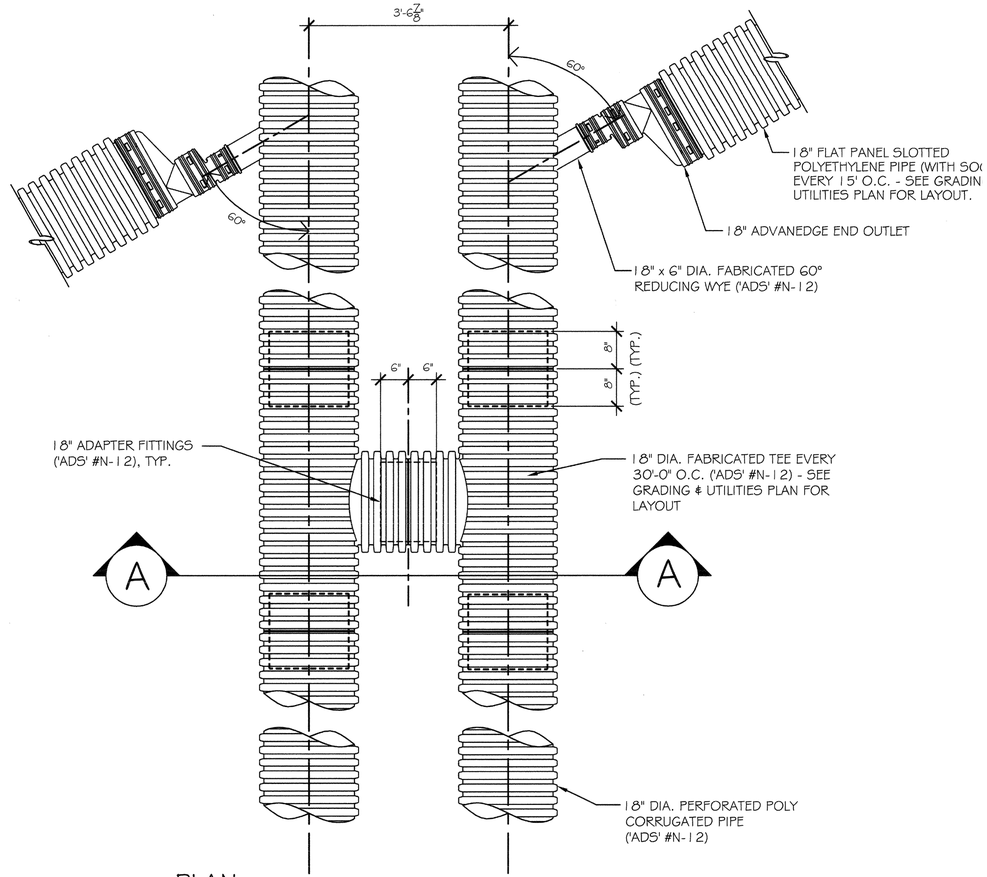
BLOCK 3868
LOT 2

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
BROWNSVILLE PLAYGROUND
BETWEEN MOTHER GASTSON BLVD, HEGEMAN AVE AND LINDEN BLVD, BROOKLYN, NY

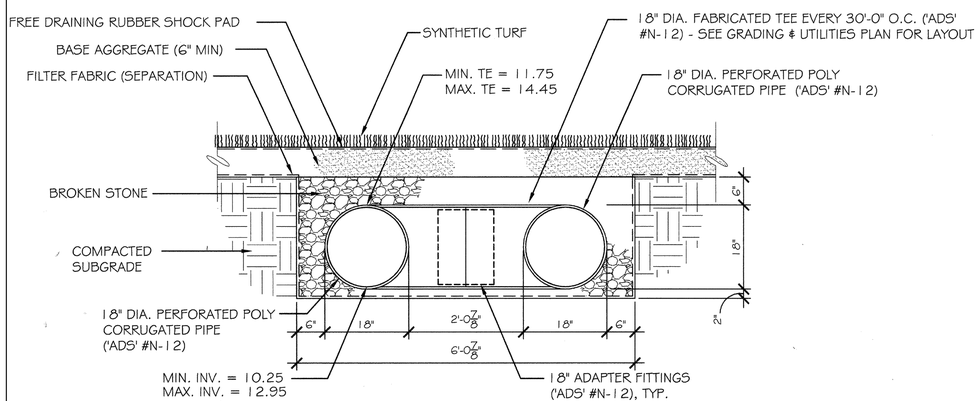
DRAWING TITLE
EXISTING CONDITION PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
----	AR	KT

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 20'	C-1	GI-CONS-6
	DATE: NOV 2026		SHEET No. 9 OF 29 SHEETS



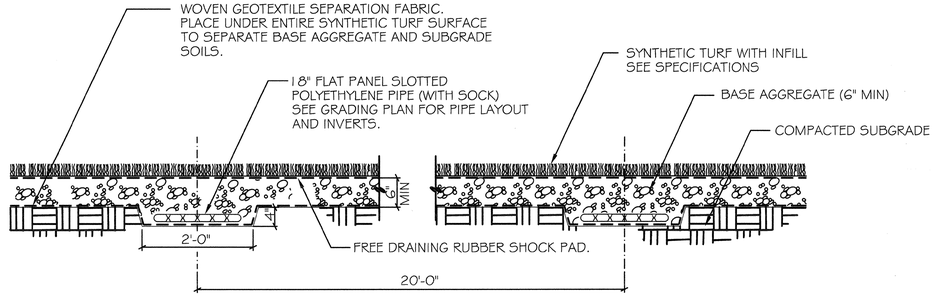
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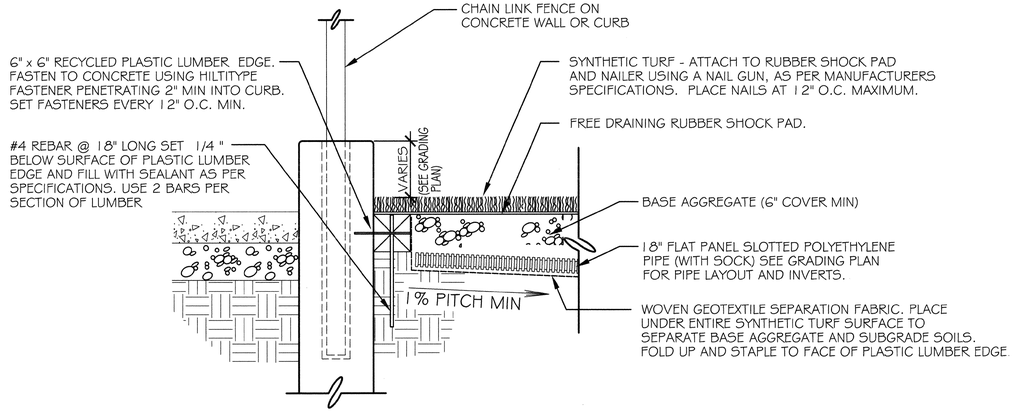
SECTION A-A

18" DOUBLE COLLECTOR PIPE

1 EXISTING SYNTHETIC TURF COLLECTOR PIPE
SCALE:NTS



2 EXISTING SYNTHETIC TURF SUBDRAIN
SCALE:NTS



3 EXISTING SYNTHETIC TURF EDGE CONNECTION
SCALE:NTS

EXISTING DETAILS NOTES

1. EXISTING DETAILS ARE FOR REFERENCE ONLY. THE ENGINEER OFFERS NO GUARANTEE TO THE ACCURACY OF THESE DETAILS TO THE FIELD CONDITIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL FIELD CONDITIONS PRIOR TO COMMENCING WORK.
2. EXISTING DETAILS TAKEN FROM CONSTRUCTION DRAWINGS OBTAINED FROM THE CITY OF NEW YORK PARKS & RECREATION FOR THE SITE TITLED "CONTRACT DRAWINGS FOR THE RECONSTRUCTION OF THE ASPHALT BALLFIELD AT THE BROWNSVILLE RECREATION CENTER PLAYGROUND BOUNDED BY LINDEN BOULEVARD, HEGEMAN AND CHRISTOPHER AVENUES, BOROUGH OF BROOKLYN", CONTRACTOR NO. B270-107M DATED DECEMBER 21, 2006.

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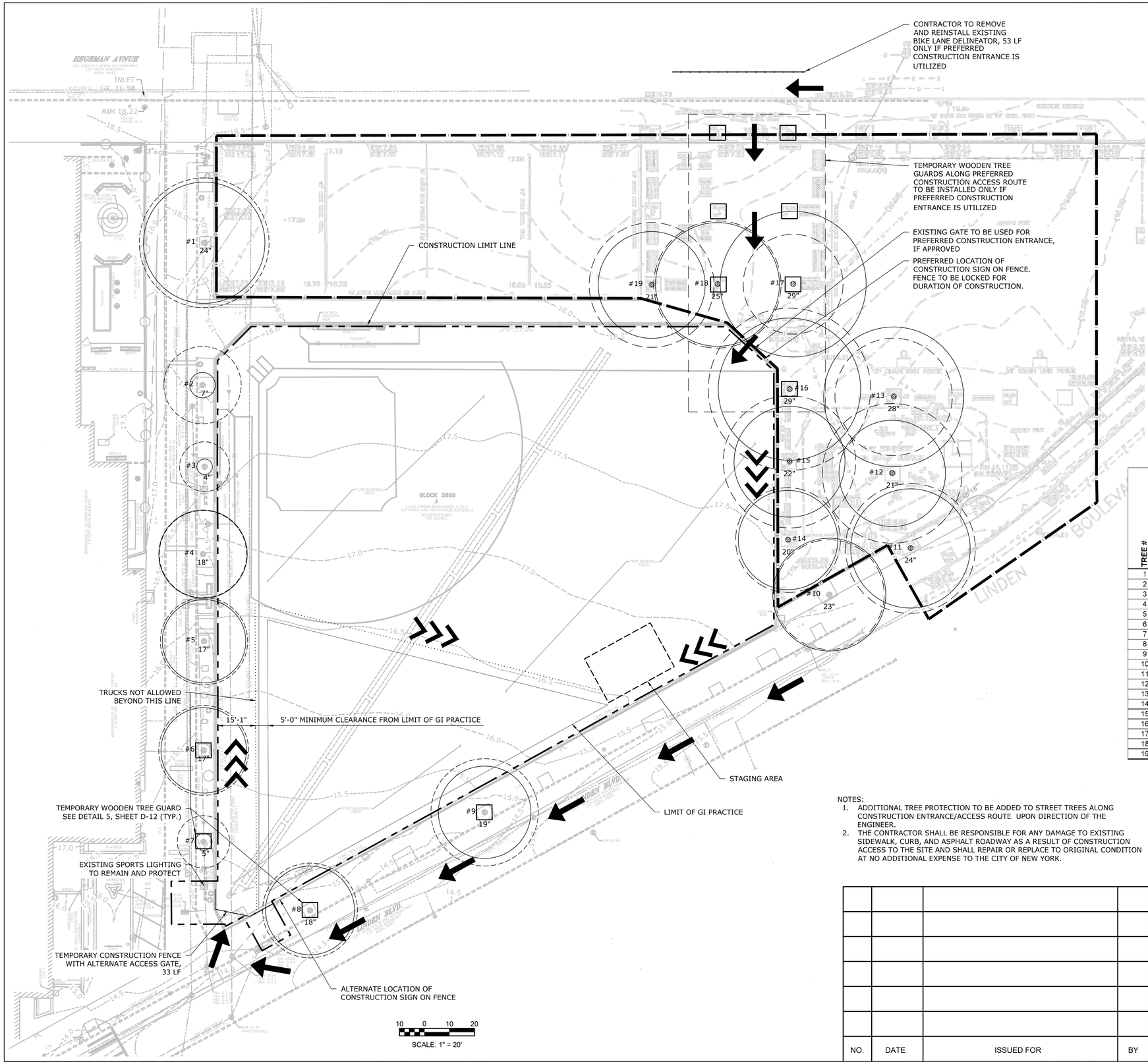
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2

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
BROWNSVILLE PLAYGROUND
BETWEEN MOTHER GASTSON BLVD, HEGEMAN AVE AND LINDEN BLVD, BROOKLYN, NY

DRAWING TITLE
EXISTING SYNTHETIC TURF DETAILS

DESIGNED BY	DRAWN BY	CHECKED BY
----	AR	KT

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	NO SCALE	C-2	GI-CONS-6
	DATE NOV 2026		SHEET No. 10 OF 29 SHEETS



LEGEND

- CONSTRUCTION LIMIT LINE
- SITE ACCESS
- STAGING AREA
- TEMPORARY WOODEN TREE GUARD
- SITE ACCESS ROUTE
- EXISTING TREE (TREE#, DBH)
- DRIPLINE
- CRITICAL ROOT ZONE
- SUPPLEMENTAL TOPOGRAPHIC INFORMATION BOUNDARY
- SITE ACCESS LIMIT
- TEMPORARY CONSTRUCTION FENCE

TREE #	SPECIES	DBH (in.)	CTLA CONDITION RATING	PREPARATORY PRUNING ANSI A-300						TREE PROTECTION					DECOMPACT				PREPARATORY FERTILIZE	TREE GROWTH REGULATOR
				Cleaning	Raising	Reducing	Restoring	Structural	Thinning	Limb Tying	Temporary Wooden Tree Guard	Temporary Wooden Tree Guard for Groves	Temporary Fence Boundary	Protect Existing Tree Roots With Wood Chips	Protect Ex. Tree Roots w/ Plywood Mats	Air-Tilling 3 Ft Radius	Air-Tilling 5 Ft Radius	Radial Trench	Vertical Mulch		
1	LONDON PLANETREE	24	81%																	
2	LONDON PLANETREE	7	88%																	
3	LONDON PLANETREE	4	94%																	
4	LONDON PLANETREE	18	81%																	
5	LONDON PLANETREE	17	72%																	
6	LONDON PLANETREE	17	88%								X									
7	LONDON PLANETREE	5	84%								X									
8	LONDON PLANETREE	18	66%								X									
9	LONDON PLANETREE	19	63%								X									
10	LONDON PLANETREE	23	66%																	
11	LONDON PLANETREE	24	72%																	
12	LONDON PLANETREE	21	84%																	
13	LONDON PLANETREE	28	84%																	
14	LONDON PLANETREE	20	84%																	
15	LONDON PLANETREE	22	88%																	
16	LONDON PLANETREE	29	88%								X									
17	LONDON PLANETREE	29	84%								X									
18	LONDON PLANETREE	25	84%								X									
19	LONDON PLANETREE	21	88%																	

NOTES:
1. ADDITIONAL TREE PROTECTION TO BE ADDED TO STREET TREES ALONG CONSTRUCTION ENTRANCE/ACCESS ROUTE UPON DIRECTION OF THE ENGINEER.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING SIDEWALK, CURB, AND ASPHALT ROADWAY AS A RESULT OF CONSTRUCTION ACCESS TO THE SITE AND SHALL REPAIR OR REPLACE TO ORIGINAL CONDITION AT NO ADDITIONAL EXPENSE TO THE CITY OF NEW YORK.

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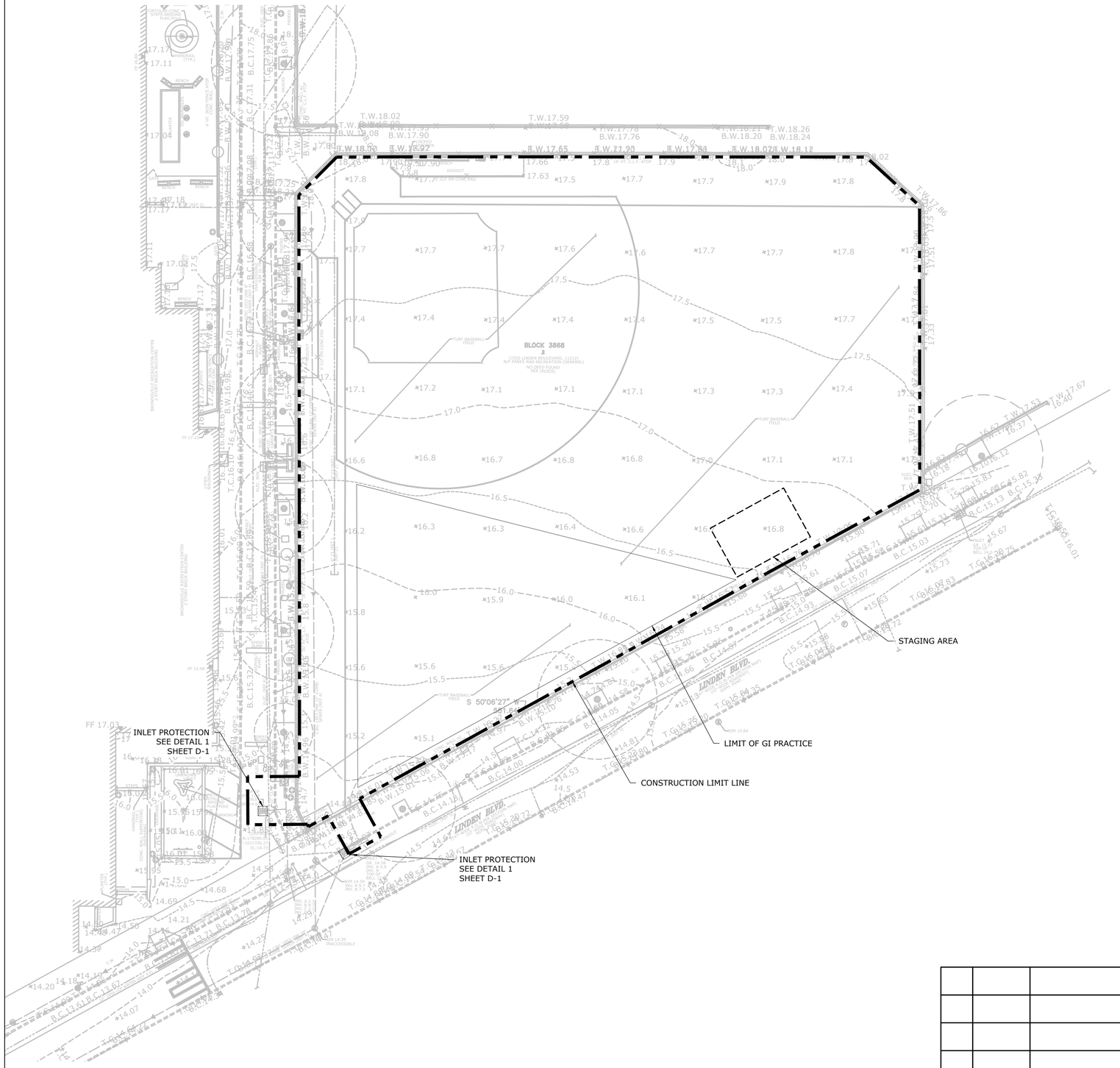
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PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
BROWNSVILLE PLAYGROUND
BETWEEN MOTHER GASTON BLVD, HEGEMAN AVE AND LINDEN BLVD, BROOKLYN, NY

DRAWING TITLE
TREE PROTECTION AND STAGING PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
AR	AR	KT

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 20'	C-3	GI-CONS-6
	DATE NOV 2026		SHEET No. 11 OF 29 SHEETS



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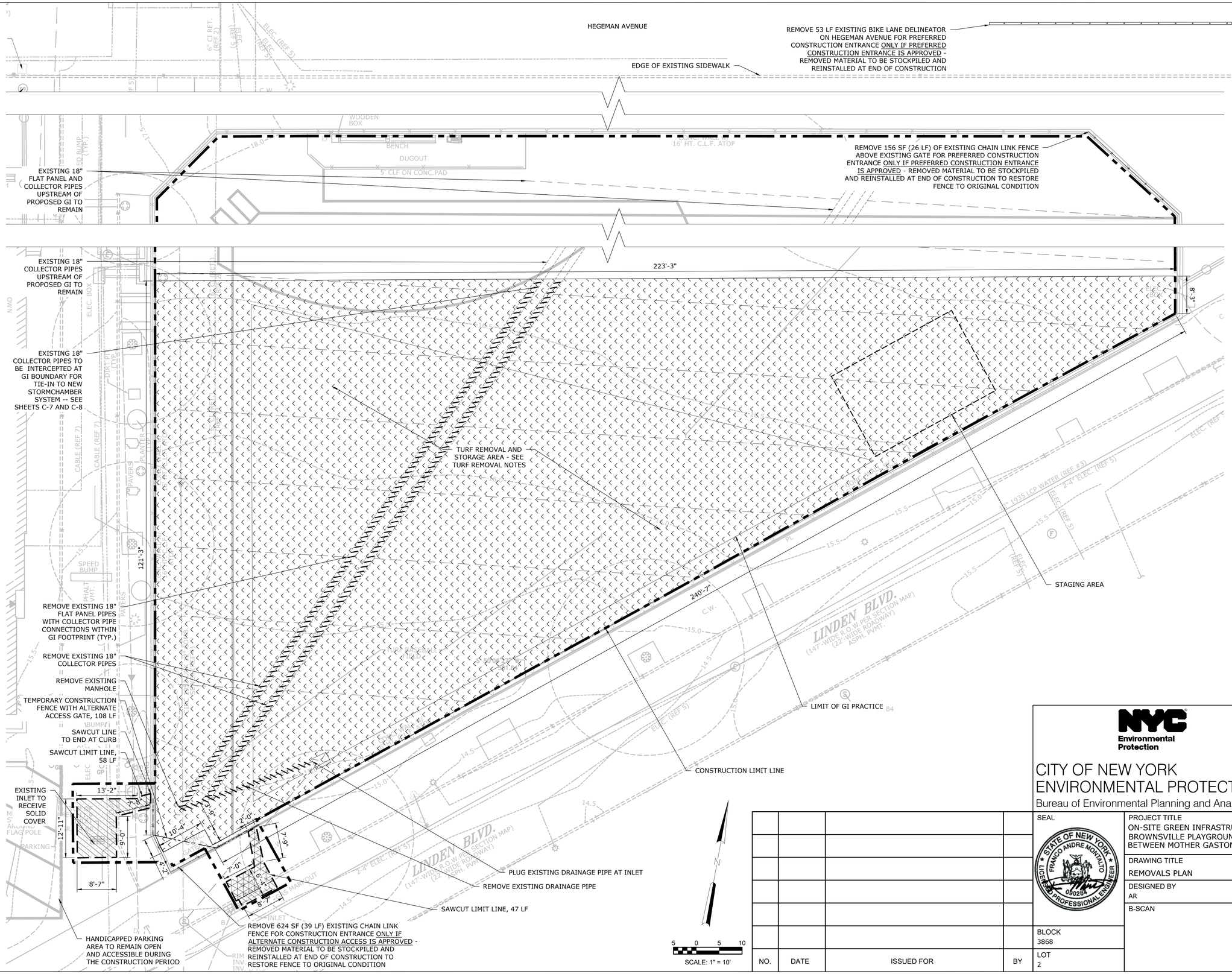
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LOT 2

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
BROWNSVILLE PLAYGROUND
BETWEEN MOTHER GASTON BLVD, HEGEMAN AVE AND LINDEN BLVD, BROOKLYN, NY

DRAWING TITLE
EROSION AND SEDIMENT CONTROL PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
AR	AR	AR

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 20'	C-4	GI-CONS-6
	DATE NOV 2026		SHEET No. 12 OF 29 SHEETS



LEGEND

- CONSTRUCTION LIMIT LINE
- PAVEMENT SAWCUT LINE
- STAGING AREA
- TURF REMOVAL FOR STORAGE
- FULL DEPTH ASPHALT REMOVAL
- ROW SIDEWALK AND CURB REMOVAL
- EXISTING 18" FLAT PANEL PIPE
- EXISTING 18" COLLECTOR PIPES
- GI FOOTPRINT
- PIPE REMOVAL
- EXISTING CHAIN LINK FENCE REMOVAL
- TEMPORARY CONSTRUCTION FENCE

TURF REMOVAL NOTES:

1. SYNTHETIC TURF SHALL BE REMOVED FROM THE AREAS DELINEATED ON THIS SHEET AND STOCKPILED FOR RE-INSTALLATION AT THE CONCLUSION OF CONSTRUCTION.
2. SYNTHETIC TURF PANELS TO BE CUT ALONG EXISTING SEAMS. NO ADDITIONAL CUTTING OF SYNTHETIC TURF PANELS SHALL BE PERMITTED WITHOUT PRIOR WRITTEN APPROVAL FROM THE PROJECT ENGINEER.
3. CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY SYNTHETIC TURF PANELS DAMAGED DURING THE REMOVAL, STOCKPILING, AND REINSTALLATION PROCESSES.
4. SEE SHEET C-2 FOR EXISTING DETAILS PERTAINING TO THE SYNTHETIC TURF SYSTEM. DETAILS ARE FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL FIELD CONDITIONS.
5. EXISTING OPEN-GRADED STONE SHALL BE REMOVED, STORED, AND REUSED TO THE GREATEST EXTENT POSSIBLE.

CONSTRUCTION SEQUENCING NOTES:

1. INSTALL TEMPORARY CONSTRUCTION FENCE (SEE DETAIL 2, SHEET D-1).
2. INSTALL TEMPORARY BARRIERS AND REQUIRED TRAFFIC CONTROL PRIOR TO START OF ANY ROW WORK.
3. INLET DRAIN PROTECTION (SEE DETAIL 1, SHEET D-1) SHALL BE USED ON ALL INLET DRAINS ADJACENT TO AND DOWNSTREAM OF CONSTRUCTION AREA.
4. TREE PROTECTION TO BE INSTALLED WHERE INDICATED ON THE TREE PROTECTION AND STAGING PLAN, SHEET C-3.
5. CUT, ROLL, AND STOCKPILE SYNTHETIC TURF FOR RE-INSTALLATION AT END OF CONSTRUCTION SEQUENCE.
6. SHEETING AND BRACING SHALL BE INSTALLED FOR ALL EXCAVATIONS DEEPER THAN 5 FEET.
7. EXISTING BROKEN STONE SHALL BE STOCKPILED ON-SITE FOR REUSE TO THE GREATEST EXTENT POSSIBLE.
8. EXCAVATION AND INSTALLATION OF GREEN INFRASTRUCTURE PRACTICES SHALL BE PERFORMED, ALONG WITH ALL ASSOCIATED APPURTENANCES.
9. PAVING IN THE WORK AREA SHALL BE RESTORED. PAINT MARKINGS IN WORK AREAS SHALL BE REPLACED IN KIND.
10. RE-INSTALL SYNTHETIC TURF ALONG WITH ALL ASSOCIATED APPURTENANCES.
11. EROSION AND CONTROL MEASURES AND CONSTRUCTION FENCE SHALL BE REMOVED.
12. EXISTING UNDERGROUND SITE DRAINAGE AND SEWER PIPES SHALL BE CLEANED OUT UPON COMPLETION OF THE CONTRACT WORK.

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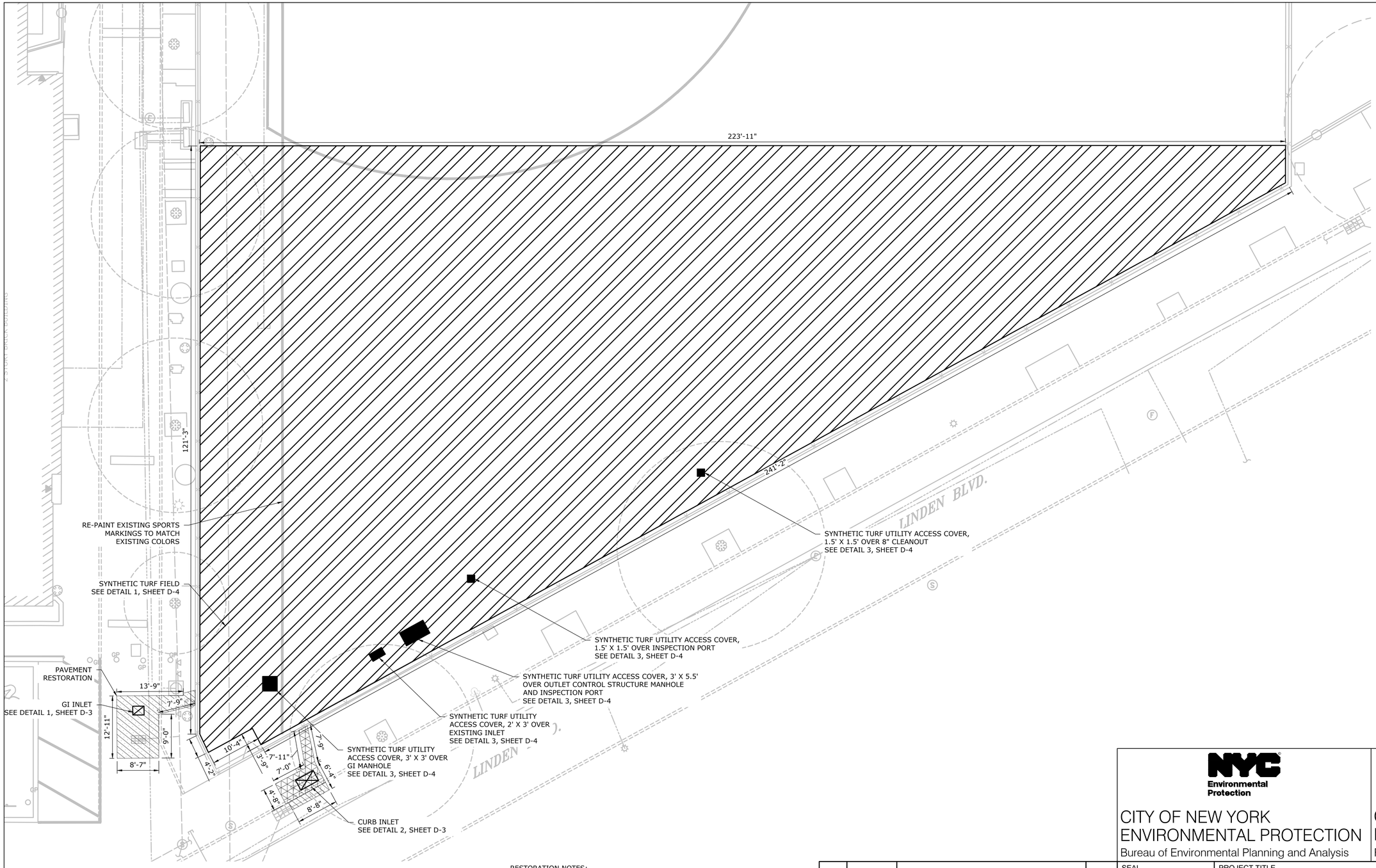
BLOCK 3868
LOT 2

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
BROWNSVILLE PLAYGROUND
BETWEEN MOTHER GASTON BLVD, HEGEMAN AVE AND LINDEN BLVD, BROOKLYN, NY

DRAWING TITLE
REMOVALS PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
AR	AR	KT

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 10'	C-5	GI-CONS-6
	DATE NOV 2026		SHEET No. 13 OF 29 SHEETS



RESTORATION NOTES:

1. ALL SYNTHETIC TURF UTILITY ACCESS COVERS SHALL BE MARKED ON THE TURF WITH A WHITE 'X', 2'x2' WITH 4" STRIPING. THE MARKING MATERIAL SHALL COMPLY WITH NYC DPR SPECIFICATIONS FOR SPORTS STRIPING ON SYNTHETIC TURF FIELDS.
2. CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY SYNTHETIC TURF PANELS DAMAGED DURING THE REMOVAL, STOCKPILING, AND REINSTALLATION PROCESSES.
3. SEE SHEET C-2 FOR EXISTING DETAILS PERTAINING TO THE SYNTHETIC TURF SYSTEM. DETAILS ARE FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL FIELD CONDITIONS.

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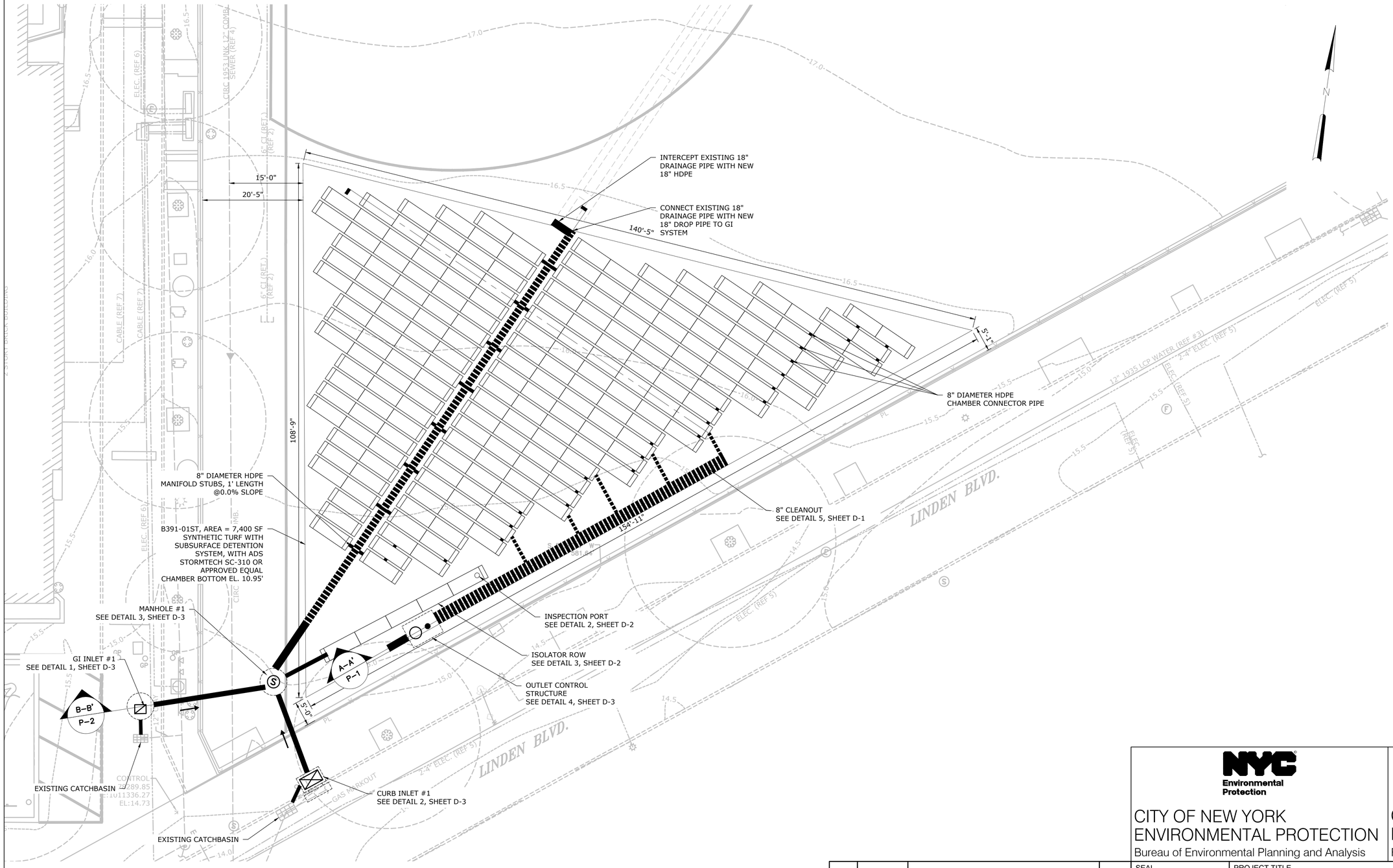
PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
BROWNSVILLE PLAYGROUND
BETWEEN MOTHER GASTON BLVD, HEGEMAN AVE AND LINDEN BLVD, BROOKLYN, NY

DRAWING TITLE
MATERIALS PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
AR	AR	KT

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 10'	C-6	GI-CONS-6
	DATE: NOV 2026		SHEET No. 14 OF 29 SHEETS

BLOCK 3868
LOT 2



LEGEND

- GI INLET
- ROW GI INLET
- GI MANHOLE
- OUTLET CONTROL STRUCTURE
- STORMCHAMBER WITH END CAP
- INSPECTION PORT
- SOLID HDPE PIPE
- PERFORATED HDPE PIPE
- LIMIT OF GI PRACTICE
- EXISTING TURF FIELD UNDERDRAIN

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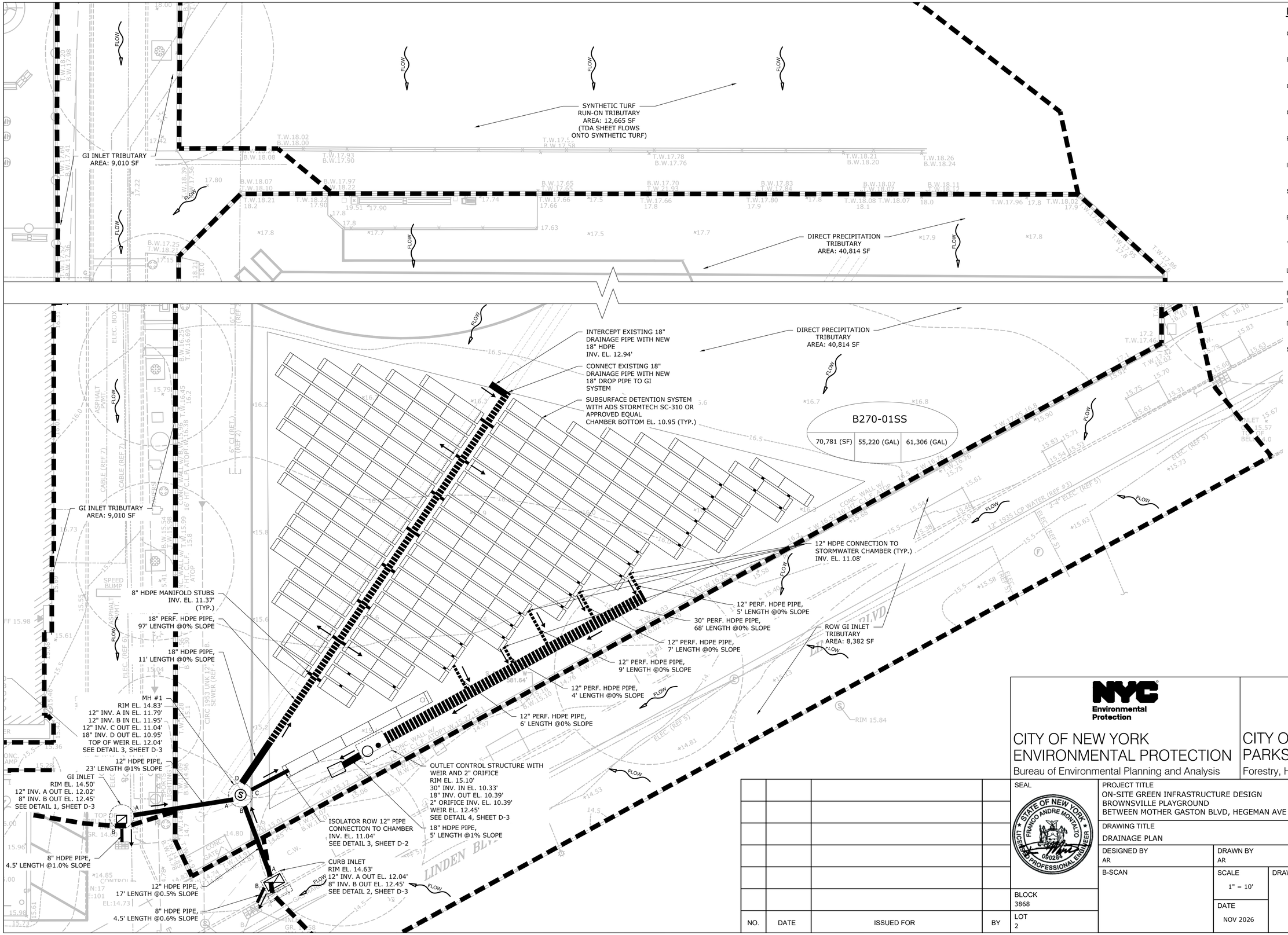
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LOT 2

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
BROWNSVILLE PLAYGROUND
BETWEEN MOTHER GASTON BLVD, HEGEMAN AVE AND LINDEN BLVD, BROOKLYN, NY

DRAWING TITLE
PROPOSED LAYOUT PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
AR	AR	KT

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 10'	C-7	GI-CONS-6
	DATE NOV 2026		SHEET No. 15 OF 29 SHEETS



LEGEND

- GI INLET
- ROW GI INLET
- GI MANHOLE
- OUTLET CONTROL STRUCTURE
- FLOW DIRECTION
- INSPECTION PORT
- SOLID HDPE PIPE
- PERFORATED HDPE PIPE
- TRIBUTARY DRAINAGE AREA
- LIMIT OF GI PRACTICE
- EXISTING TURF FIELD UNDERDRAIN
- DIRECTION OF PIPE FLOW
- STORMWATER CHAMBER

GI PRACTICE ID

TRIBUTARY AREA	CAPACITY OF 1.25" CAPTURE	CAPACITY MANAGED

N

5 0 5 10

SCALE: 1" = 10'

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ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis

NYC Parks

CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

SEAL
STATE OF NEW YORK
FRANCO ANDRE MONTALTO
090284
LICENSED PROFESSIONAL ENGINEER

BLOCK
3868

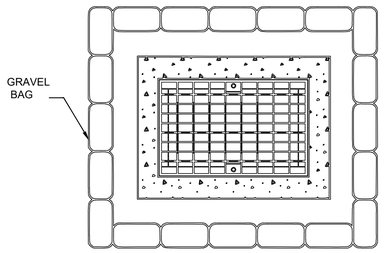
LOT
2

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
BROWNSVILLE PLAYGROUND
BETWEEN MOTHER GASTON BLVD, HEGEMAN AVE AND LINDEN BLVD, BROOKLYN, NY

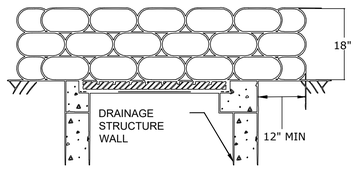
DRAWING TITLE
DRAINAGE PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
AR	AR	KT

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 10'	C-8	GI-CONS-6
	DATE NOV 2026		SHEET No. 16 OF 29 SHEETS



PLAN

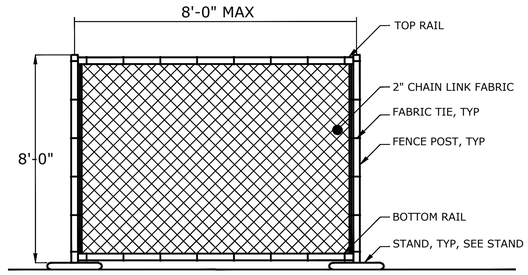


CROSS SECTION

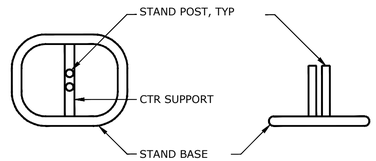
APPLICATION NOTES:

A. THE PRIMARY PURPOSE OF DRAINAGE STRUCTURE INLET PROTECTION IS TO PREVENT SEDIMENT FROM ENTERING A DRAINAGE SYSTEM BY TRAPPING WATER, THEREBY ALLOWING SEDIMENT TO FALL OUT OF SUSPENSION.
B. GRAVEL BAGS ARE FILLED WITH CLEAN STONE, RATHER THAN SAND, TO PREVENT SEDIMENT FROM ENTERING A DRAINAGE SYSTEM IF BAGS ARE DAMAGED DURING USE.
C. THE TOP OF THE INLET PROTECTION SHALL BE SET TO ALLOW OVERFLOW INTO THE INLET AND NOT BYPASS TO UNPROTECTED RESOURCES

1 TEMPORARY INLET PROTECTION
SCALE:NTS



ELEVATION



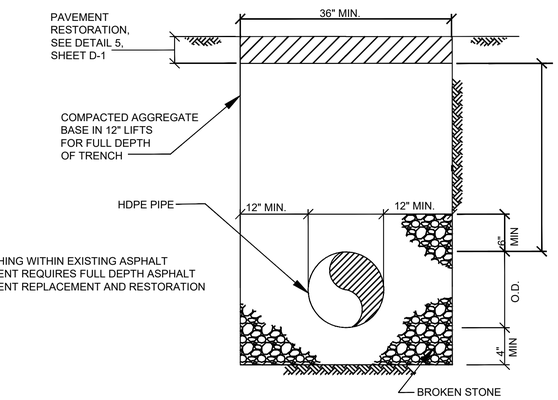
PLAN

SIDE ELEVATION

STAND DETAIL

NOTES:
1. CONTRACTOR SHALL PROVIDE, AT A MINIMUM, TEMPORARY FENCE WITH DIMENSIONS AND APPURTENANCES AS SHOWN.
2. ALL OTHER DIMENSIONS, MATERIAL SIZES, MATERIAL TYPES, ACCESSORIES, ETC PER MANUFACTURER.
3. TEMPORARY FENCE SHALL REMAIN IN PLACE UNTIL CONCLUSION OF CONSTRUCTION.
4. SAND BAGS SHALL BE USED FOR POST SUPPORT IN ACCORDANCE WITH THE SPECIFICATIONS.

2 TEMPORARY CONSTRUCTION FENCE
SCALE:NTS



NOTE:
1. TRENCHING WITHIN EXISTING ASPHALT PAVEMENT REQUIRES FULL DEPTH ASPHALT PAVEMENT REPLACEMENT AND RESTORATION

3 TRENCH RESTORATION
SCALE:NTS

3 AT 120°

ROTATED EVERY VALLEY

NOTE:
1. CLASS II PERFORATIONS SHALL BE LOCATED IN THE OUTSIDE VALLEYS OF CORRUGATED HDPE PIPE. PERFORATION PATTERN SHOWN FOR HDPE PIPE UP TO 10 INCHES IN DIAMETER.

4 AASHTO CLASS II PERFORATION PIPE
SCALE:NTS

NOTES
1. INSERTA-TEE TO BE INSTALLED ACCORDING TO MANUFACTURER'S SPEFICATIONS.

5 8" CLEANOUT
SCALE:1" = 1'-0"

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NO.	DATE	ISSUED FOR	BY

SEAL
STATE OF NEW YORK ★ FRANCO ANDRE MONTALTO ★ 090284 ★ LICENSED PROFESSIONAL ENGINEER

BLOCK
3868

LOT
2

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
BROWNSVILLE PLAYGROUND
BETWEEN MOTHER GASTON BLVD, HEGEMAN AVE AND LINDED BLVD, BROOKLYN, NY

DRAWING TITLE
SITE CIVIL DETAILS

DESIGNED BY	DRAWN BY	CHECKED BY
AR	AR	KT

B-SCAN

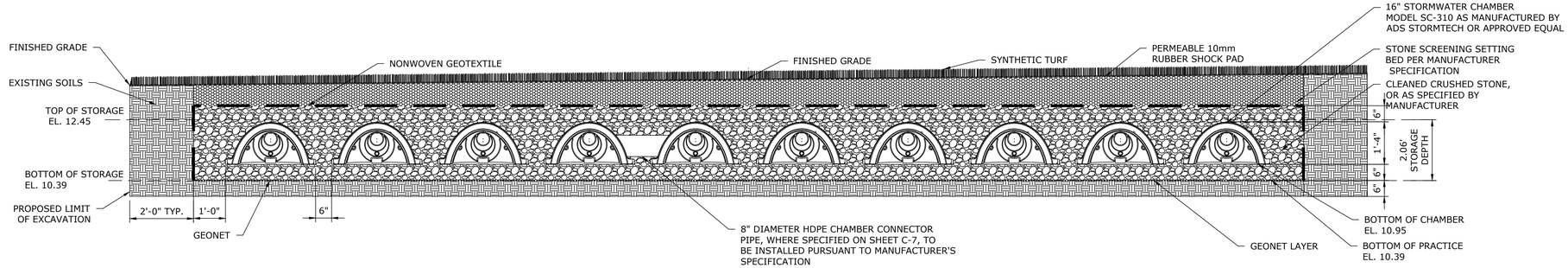
SCALE: AS SHOWN

DRAWING NO.: D-1

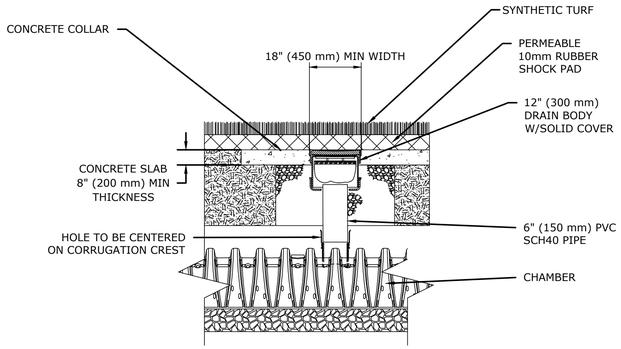
DATE: NOV 2026

CONTRACT NO.: GI-CONS-6

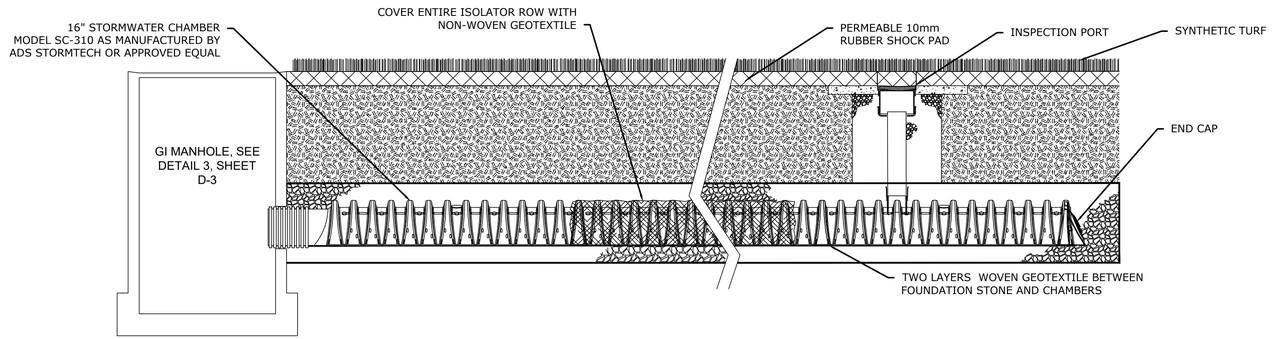
SHEET No. 19 OF 29 SHEETS



1 16" STORMWATER CHAMBERS (TYP.)
SCALE:NTS



2 INSPECTION PORT
SCALE:NTS



3 ISOLATOR ROW
SCALE:NTS

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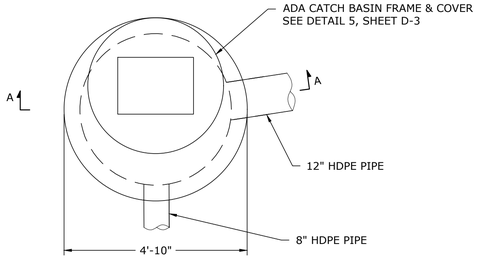
LOT
2

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
BROWNSVILLE PLAYGROUND
BETWEEN MOTHER GASTON BLVD, HEGEMAN AVE AND LINDEN BLVD, BROOKLYN, NY

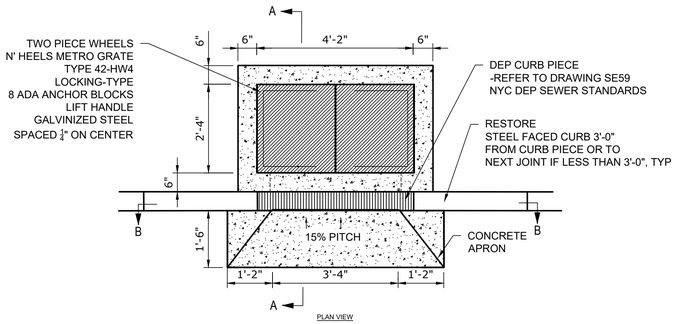
DRAWING TITLE
STORMWATER CHAMBER DETAILS

DESIGNED BY	DRAWN BY	CHECKED BY
AR	AR	KT

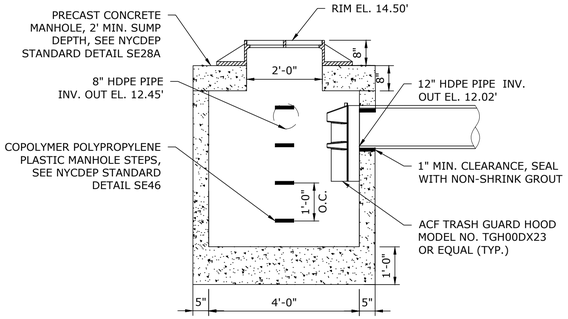
B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	NO SCALE	D-2	GI-CONS-6
	DATE NOV 2026		SHEET No. 20 OF 29 SHEETS



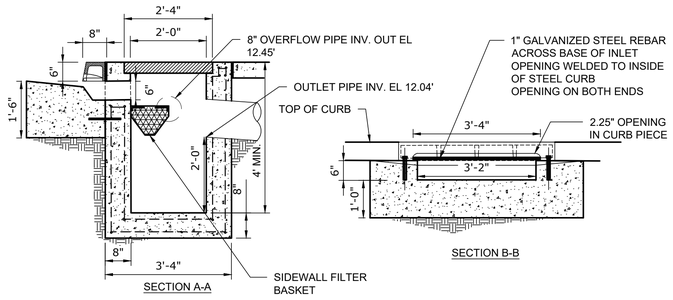
PLAN



PLAN VIEW



SECTION A-A

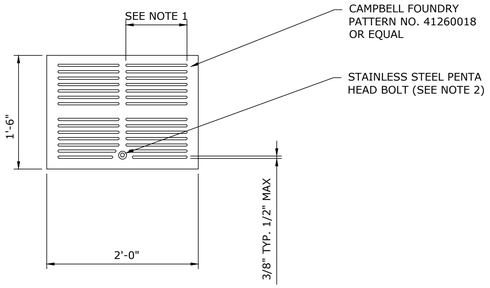


SECTION A-A

SECTION B-B

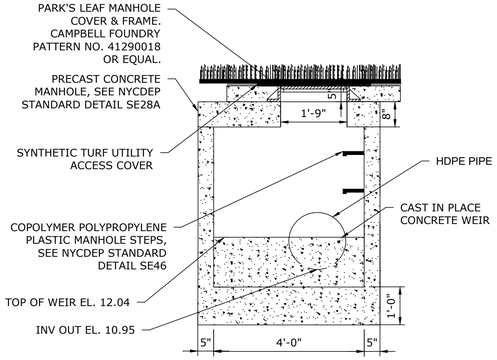
1 GI INLET
SCALE:NTS

2 CURB INLET TYPE A
SCALE:1" = 1'-0"

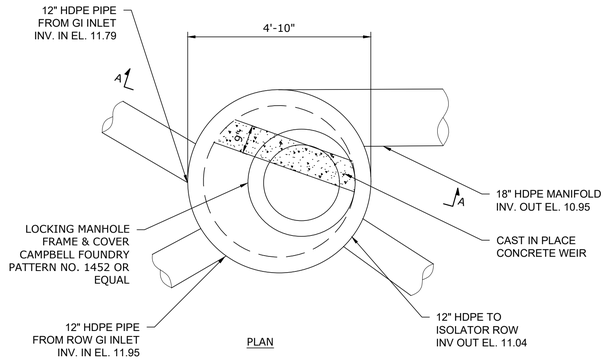


NOTES:
1. ELONGATED OPENINGS SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL
2. PENTA-HEAD STAINLESS STEEL BOLT 1/2" DIA., ONE (1) PER COVER, AS SUPPLIED BY CAMPBELL FOUNDRY CO. OR APPROVED EQUAL. TYPICAL PLASTIC END CAPS ARE TO BE SUPPLIED WITH HARDWARE AND INSTALLED ON PENTA-HEAD BOLTS.

5 ADA CATCH BASIN COVER
SCALE:1" = 1'-0"

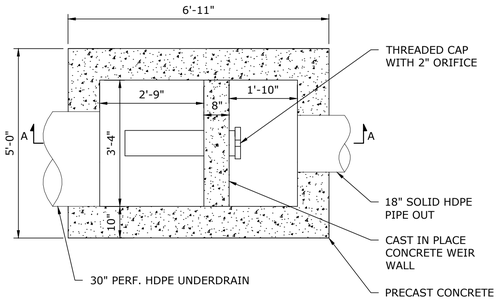


SECTION A-A

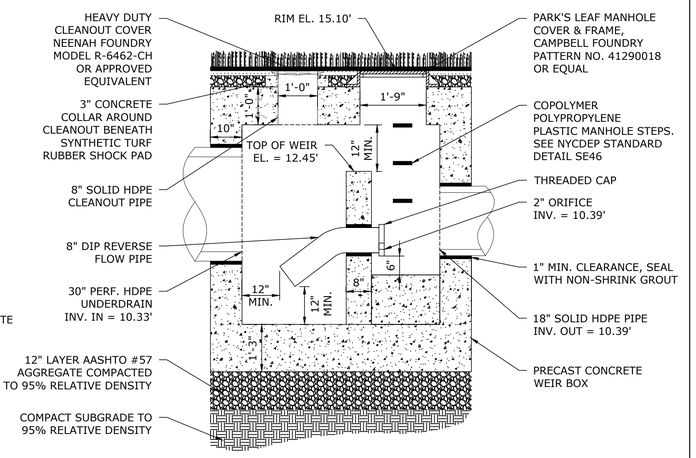


PLAN

3 MANHOLE
SCALE:1" = 2'



PLAN



SECTION A-A

4 OUTLET CONTROL STRUCTURE
SCALE:1" = 2'

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BLOCK
3868

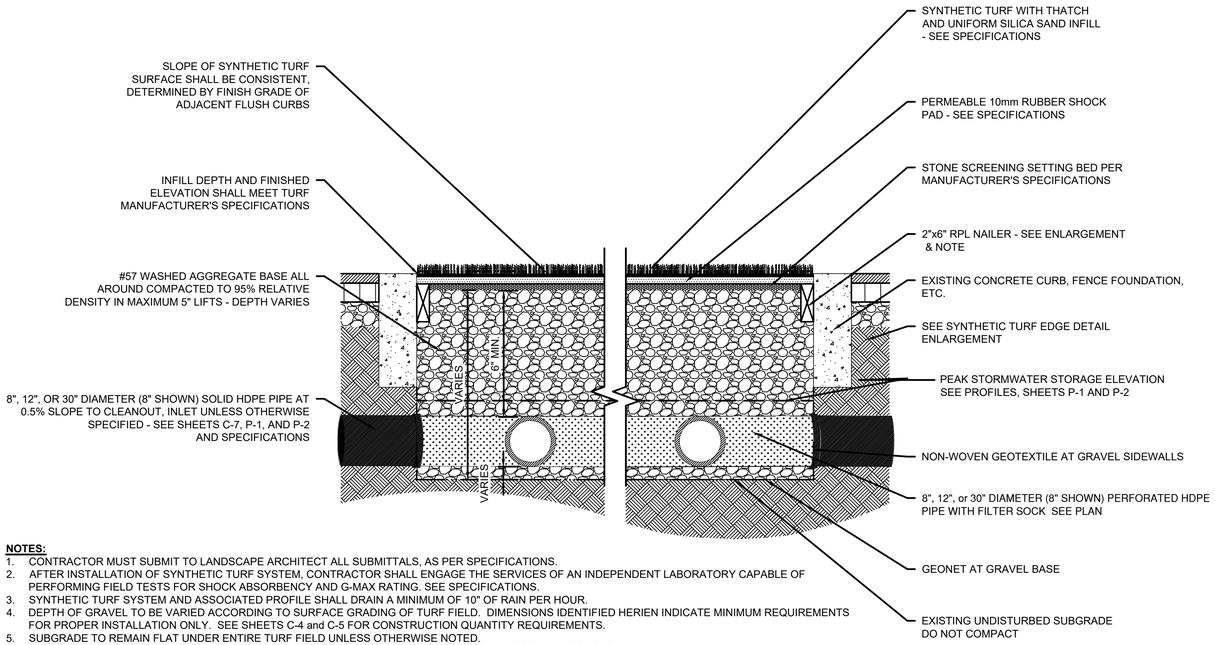
LOT
2

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
BROWNSVILLE PLAYGROUND
BETWEEN MOTHER GASTON BLVD, HEGEMAN AVE AND LINDEN BLVD, BROOKLYN, NY

DRAWING TITLE
STRUCTURE DETAILS

DESIGNED BY	DRAWN BY	CHECKED BY
AR	AR	KT

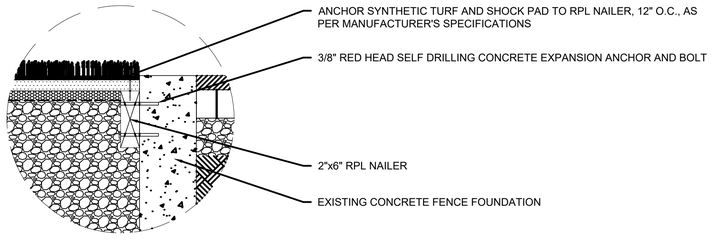
B-SCAN	SCALE	DRAWING NO.	CONTRACT
	AS SHOWN	D-3	NO. GI-CONS-6
	DATE NOV 2026		SHEET No. 21 OF 29 SHEETS



NOTES:

1. CONTRACTOR MUST SUBMIT TO LANDSCAPE ARCHITECT ALL SUBMITTALS, AS PER SPECIFICATIONS.
2. AFTER INSTALLATION OF SYNTHETIC TURF SYSTEM, CONTRACTOR SHALL ENGAGE THE SERVICES OF AN INDEPENDENT LABORATORY CAPABLE OF PERFORMING FIELD TESTS FOR SHOCK ABSORBENCY AND G-MAX RATING. SEE SPECIFICATIONS.
3. SYNTHETIC TURF SYSTEM AND ASSOCIATED PROFILE SHALL DRAIN A MINIMUM OF 10" OF RAIN PER HOUR.
4. DEPTH OF GRAVEL TO BE VARIED ACCORDING TO SURFACE GRADING OF TURF FIELD. DIMENSIONS IDENTIFIED HERIEN INDICATE MINIMUM REQUIREMENTS FOR PROPER INSTALLATION ONLY. SEE SHEETS C-4 and C-5 FOR CONSTRUCTION QUANTITY REQUIREMENTS.
5. SUBGRADE TO REMAIN FLAT UNDER ENTIRE TURF FIELD UNLESS OTHERWISE NOTED.
6. GRAVEL BELOW THE PEAK STORAGE ELEVATION IS THE VOLUME AVAILABLE FOR STORMWATER MANAGEMENT.

1 SYNTHETIC TURF SYSTEM
SCALE:1" = 1'-0"

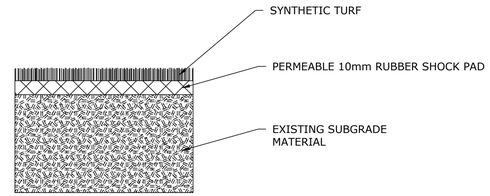


ENLARGEMENT

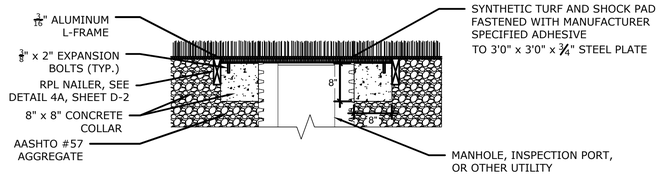
2"x6" RPL NAILER NOTE:

1. ⅜" RED HEAD SELF DRILLING CONCRETE EXPANSION ANCHOR AND BOLT, 4" LONG; EVERY 2'-0" O.C.
2. ALTERNATING 1-½" FROM TOP AND 1-½" FROM BOTTOM OF NAILER STARTING 1'-0" FROM EDGE OF
3. LUMBER FOR RADII, (2) 1"x6" RPL BOARDS CAN BE USED TOGETHER TO EQUAL A 2"x6" NAILER.

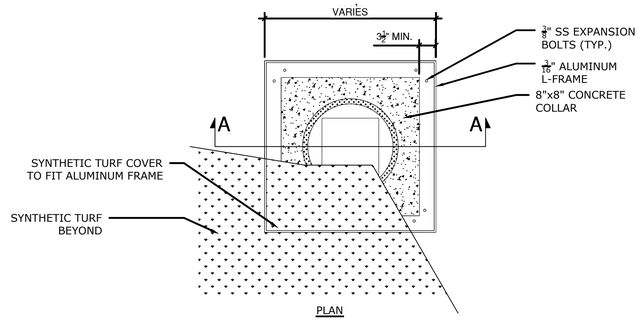
1A SYNTHETIC TURF DETAIL
SCALE:1-1/2" = 1' -0"



2 SYNTHETIC TURF RESTORATION
SCALE:NTS



SECTION A-A



PLAN

3 SYNTHETIC TURF UTILITY ACCESS COVER
SCALE:NTS

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NO.	DATE	ISSUED FOR	BY

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BLOCK 3868
LOT 2

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
BROWNSVILLE PLAYGROUND
BETWEEN MOTHER GASTON BLVD, HEGEMAN AVE AND LINDEN BLVD, BROOKLYN, NY

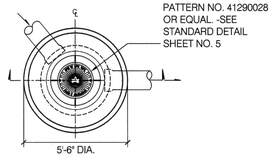
DRAWING TITLE
SYNTHETIC TURF DETAILS

DESIGNED BY	DRAWN BY	CHECKED BY
AR	AR	KT

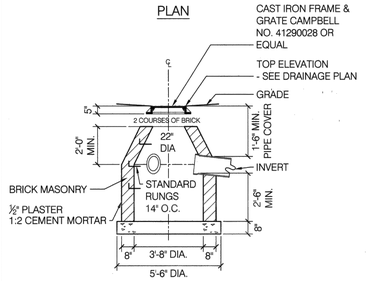
B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	AS SHOWN	D-4	GI-CONS-6
	DATE NOV 2026		SHEET No. 22 OF 29 SHEETS

1 CATCH BASIN C-1

SCALE ½"= 1'-0"



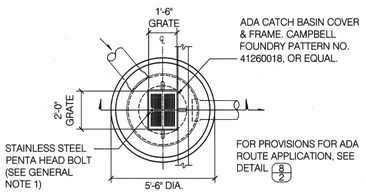
PLAN



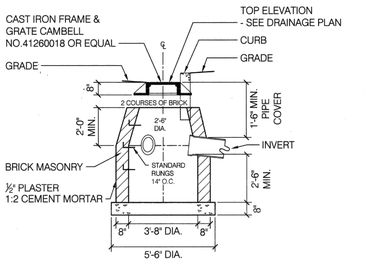
SECTION

2 CATCH BASIN C-2

SCALE ½"= 1'-0"



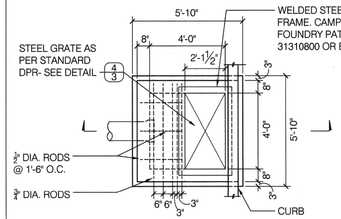
PLAN



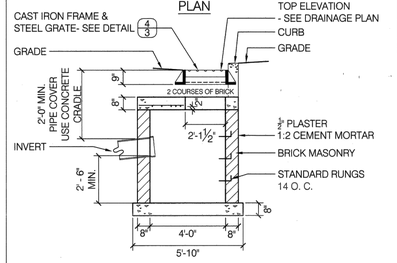
SECTION

3 CATCH BASIN C-3

SCALE ½"= 1'-0"



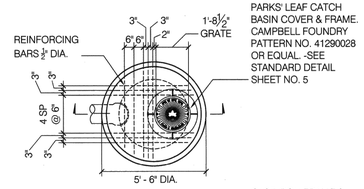
PLAN



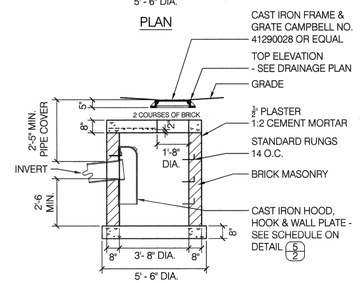
SECTION

4 CATCH BASIN C-5

SCALE ½"= 1'-0"



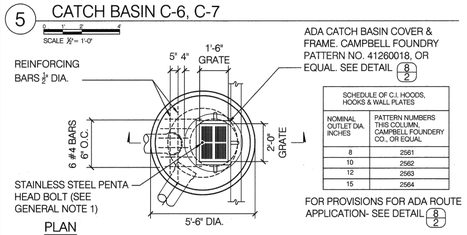
PLAN



SECTION

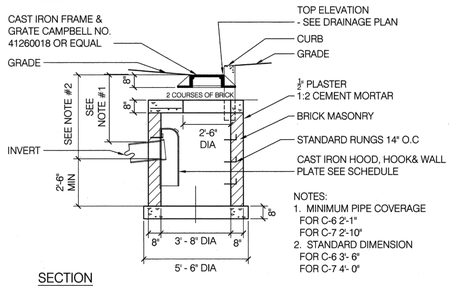
5 CATCH BASIN C-6, C-7

SCALE ½"= 1'-0"



SCHEDULE OF C.I. HOODS, HOOKS & WALL PLATES	
NOMINAL OUTLET DIA. INCHES	PATTERN NUMBERS THIS COLUMN, CAMPBELL FOUNDERY CO., OR EQUAL
8	2561
10	2562
12	2563
15	2564

PLAN

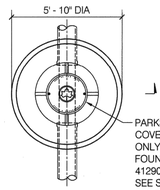


NOTES:
1. MINIMUM PIPE COVERAGE
   FOR C-6 2'-1"
   FOR C-7 2'-10"
2. STANDARD DIMENSION
   FOR C-6 3'- 6"
   FOR C-7 4'- 0"

SECTION

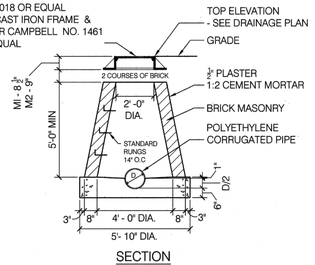
6 MANHOLE M-1, M-2

SCALE ½"= 1'-0"



PLAN

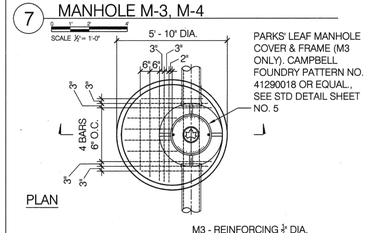
M1 - CAST IRON FRAME & COVER CAMPBELL NO. 41290018 OR EQUAL
M2 - CAST IRON FRAME & COVER CAMPBELL NO. 1461 OR EQUAL



SECTION

7 MANHOLE M-3, M-4

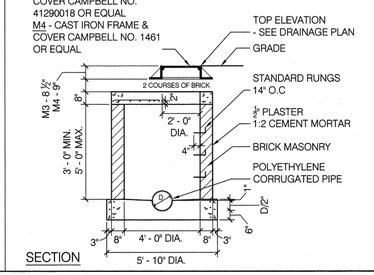
SCALE ½"= 1'-0"



PLAN

M3 - REINFORCING ¾" DIA.
M4 - REINFORCING BARS ¾" DIA.

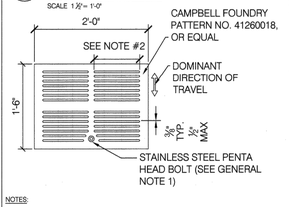
M3 - CAST IRON FRAME & COVER CAMPBELL NO. 41290018 OR EQUAL
M4 - CAST IRON FRAME & COVER CAMPBELL NO. 1461 OR EQUAL



SECTION

8 ADA CATCH BASIN COVER

SCALE 1 ½"= 1'-0"



NOTES:

A. ELONGATED OPENINGS SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL.

B. CAMPBELL FOUNDRY PATTERN 41260018 ADA COVER, OR APPROVED EQUAL FOR CATCHBASINS C-2, C-6, C-7, AND DROP INLET D-2 (SHEET 3)

GENERAL NOTES:

1. PENTA-HEAD STAINLESS STEEL BOLT, ½" DIA., ONE (1) PER COVER, AS SUPPLIED BY CAMPBELL FOUNDRY CO, 800 BERGEN ST, HARRISON, NJ 07029, (973) 483-5460, OR APPROVED EQUAL. TYPICAL PLASTIC END CAPS ARE TO BE SUPPLIED WITH HARDWARE AND INSTALLED ON PENTA-HEAD BOLTS.

CITY OF NEW YORK
PARKS & RECREATION
OLMSTED CENTER
FLUSHING MEADOWS CORONA PARK
FLUSHING, NEW YORK 11368

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DRAWING TITLE
DRAINAGE DETAILS - NO. 1

DRAWN BY STAFF	CHECKED BY R. WEI, PE
APPROVED BY	STANDARD DWG. DETAIL TYLA / 146-R9
APPROVED BY DIRECTOR CELIA M. PETERSEN, RLA	SHEET NO. 2
DATE 05-07-2018	SCALE AS SHOWN

NO.	DATE	ISSUED FOR	BY

SEAL

STATE OF NEW YORK · FRANCO ANDRE MONACO · 050284 · LICENSED PROFESSIONAL ENGINEER

BLOCK 3868

LOT 2

NYC Environmental Protection

CITY OF NEW YORK
ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis

NYC Parks

CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
BROWNSVILLE PLAYGROUND
BETWEEN MOTHER GASTON BLVD, HEGEMAN AVE AND LINDEN BLVD, BROOKLYN, NY

DRAWING TITLE
NYC PARKS DETAILS

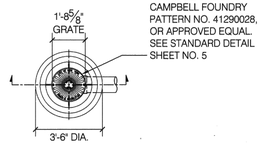
DESIGNED BY	DRAWN BY	CHECKED BY
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B-SCAN

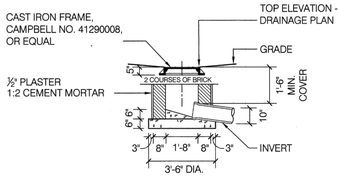
SCALE	DRAWING NO.	CONTRACT NO.
NO SCALE	D-5	GI-CONS-6
DATE NOV 2026		SHEET No. 23 OF 29 SHEETS

1 DROP INLET D-1

SCALE ½"= 1'-0"



PLAN



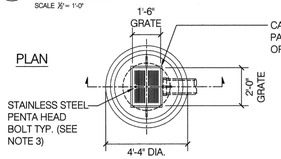
SECTION

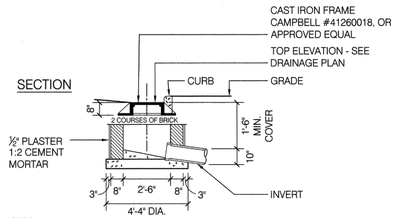
NOTE:

FOR DROP INLETS D1, 10" PIPE PERMITTED ON RUNS OF 30 FEET OR LESS, OTHERWISE USE 12" DIAMETER PIPE AS THE MINIMUM SIZE.

2 DROP INLET D-2

SCALE ½"= 1'-0"



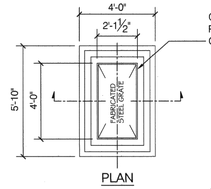


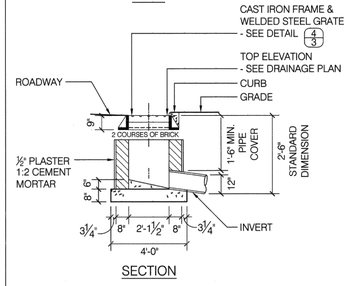
NOTES:

1. FOR DROP INLETS D2, 10" PIPE PERMITTED ON RUNS OF 30 FEET OR LESS, OTHERWISE USE 12" DIAMETER PIPE AS THE MINIMUM SIZE.
2. SEE SHEET 2, DETAIL 8 "ADA CATCH BASIN COVER" FOR PROVISIONS FOR ADA ROUTE APPLICATION.
3. PENTA-HEAD STAINLESS STEEL BOLT, ½" DIA., ONE (1) PER COVER, AS SUPPLIED BY CAMPBELL FOUNDRY CO. 800 BERGEN ST, HARRISON, NJ 07029, (973) 483-5480, OR APPROVED EQUAL. TYPICAL PLASTIC END CAPS ARE TO BE SUPPLIED WITH HARDWARE AND INSTALLED ON PENTA-HEAD BOLTS.

3 DROP INLET HIGHWAY DRAIN D-3

SCALE ½"= 1'-0"

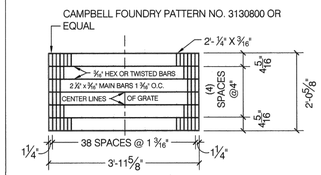




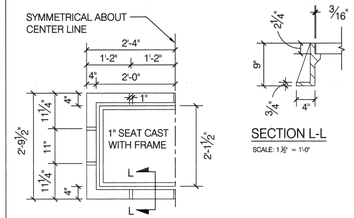
SECTION

4 CAST IRON FRAME AND WELDED STEEL GRATE

SCALE 1"= 1'-0"



DETAIL OF WELDED STEEL GRATE



HALF PLAN OF CAST IRON FRAME FOR WELDED STEEL GRATE

SECTION L-L

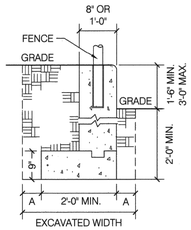
SCALE: 1½" = 1'-0"

5 MAXIMUM PAYMENT LINES FOR EXCAVATION

SCALE 1"= 1'-0"

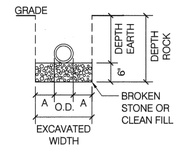
NOTES:

1. DIMENSION "A" SHALL APPLY TO THE FOLLOWING STRUCTURES:
   - DRAINAGE STRUCTURES AND VALVE BOXES (ALL SIDES)
   - BUILDING FOUNDATION (EXTERIOR SIDE ONLY)
   - TYPE 8 CURB OR GREATER - SEE SHEET 17 FOR CURB DETAIL (BOTH SIDES)
2. ALL OTHER EXCAVATION PAYMENT LINE TO NEAT LINES.
3. DEPTH TO BE MEASURED FROM EITHER EXISTING GRADE OR FINISHED SUBGRADE, WHICHEVER IS LOWER.



TYPE 8 CURB

ITEM	DIMENSION "A" DEPTH	
	UNDER 2'-6"	2'-6" OR OVER**
UNCLASSIFIED EXCAVATION OR ROCK EXCAVATION	6"	12"

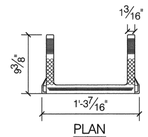


PIPES* (ONLY APPLIES TO ONE PIPE PER TRENCH)

* EXCEPT DUCTILE IRON PIPE, SEE DETAIL 8/3

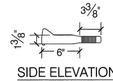
6 STANDARD RUNGS FOR MANHOLES & CATCH BASINS

SCALE 1½"= 1'-0"



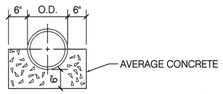
PLASTIC COVERED STEEL STEP, CAMPBELL FOUNDRY PATTERN NO. 2593-2254, OR APPROVED EQUAL.





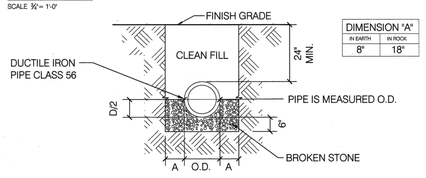
7 CONCRETE CRADLE

SCALE 1"= 1'-0"



8 BEDDING FOR DUCTILE IRON PIPE

SCALE 3/4"= 1'-0"



DIMENSION "A"	
IN EARTH	IN ROCK
8"	18"

DRAINAGE, EXISTING UTILITIES & WATER SUPPLY NOTES

1. LOCATIONS OF ALL UTILITIES SHOWN ARE APPROXIMATE. WHERE SEWER OR WATER LINES CROSS EXISTING UTILITIES, THE CONTRACTOR SHALL MAKE PRELIMINARY INVESTIGATIONS INCLUDING ALL NECESSARY EXCAVATION TO DETERMINE IF WORK CAN BE DONE AS DIRECTED BY THE ENGINEER.
2. ALL EXISTING UTILITY LINES MAY NOT BE SHOWN ON THE DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ANY UTILITY LINES HE MAY ENCOUNTER AND PROTECT ALL LINES.
3. MINIMUM COVER FOR PIPE TO BE 1'-6" COMPUTED FROM FINISHED GRADE, EXCEPT WHERE OTHERWISE NOTED ON PLAN.
4. MAXIMUM COVER TO BE DETERMINED BY DRAINAGE PITCH REQUIREMENTS AND THE LOCATION OF DRAINS.
5. ALL WATER PIPE TO BE PITCHED 1/2 PERCENT MINIMUM, AS INDICATED BY ARROWS, WITHOUT POCKETS,TO DRY WELLS.
6. EXACT LOCATIONS OF DRY WELLS TO BE AS DETERMINED BY THE ENGINEER.
7. PROVIDE PIPE SUPPORTS UNDER WATER AND DRAIN PIPES IN UNSETTLED FILL AS DIRECTED BY THE ENGINEER.
8. WHEN LAYING PIPE, WHEREVER POSSIBLE, AVOID ALL TREES, BENCHES AND FOOTINGS. WHERE NECESSARY, PROVIDE PIPE SLEEVES THOUGH WALLS, TREE PITS AND/OR FOOTINGS.
9. ALL CONNECTIONS TO CITY WATER MAINS ARE TO BE MADE IN ACCORDANCE WITH PERMITS ISSUED BY THE DIVISION OF PERMITTING AND CONNECTION, BUREAU OF WATER AND SEWER OPERATION.
10. THE LOCATION OF DRAINAGE BASINS TO BE AT THE LOW POINT OF THEIR RESPECTIVE AREAS AS DETERMINED IN THE FIELD. LOCATIONS ON PLAN ARE DIAGRAMATIC AND SHALL NOT BE SCALED.
11. FOR DRAINAGE AND WATER SUPPLY SEE GRADING AND UTILITY PLAN.
12. ALL CONCRETE SHOWN TO BE "AVERAGE" (3,200 psi) CONCRETE.

NYC Parks

CITY OF NEW YORK
PARKS & RECREATION
OLMSTED CENTER
FLUSHING MEADOWS CORONA PARK
FLUSHING, NEW YORK 11368

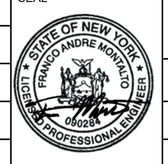
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DRAWING TITLE
DRAINAGE DETAILS - NO. 2

DRAWN BY: STAFF	CHECKED BY: R. WEI, PE
APPROVED BY:	STANDARD D.P.R. DETAIL: TYLA / 140-RD
APPROVED BY DIRECTOR: CELIA M. PETERSEN, RLA	SHEET NO.: 5
DATE: 05-07-2018	SCALE: AS SHOWN

NO.	DATE	ISSUED FOR	BY

SEAL



BLOCK 3868

LOT 2

Environmental Protection

CITY OF NEW YORK
ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis

NYC Parks

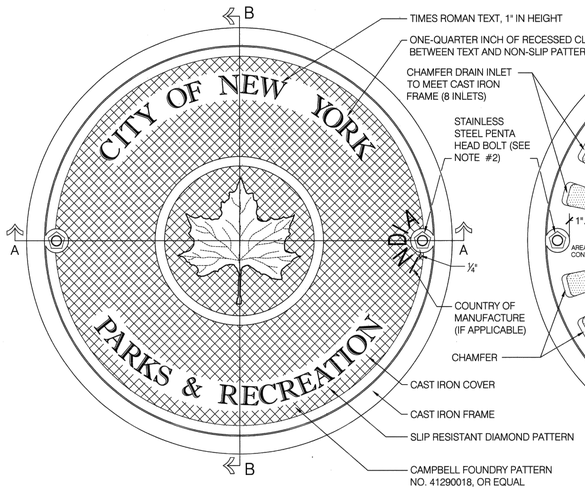
CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

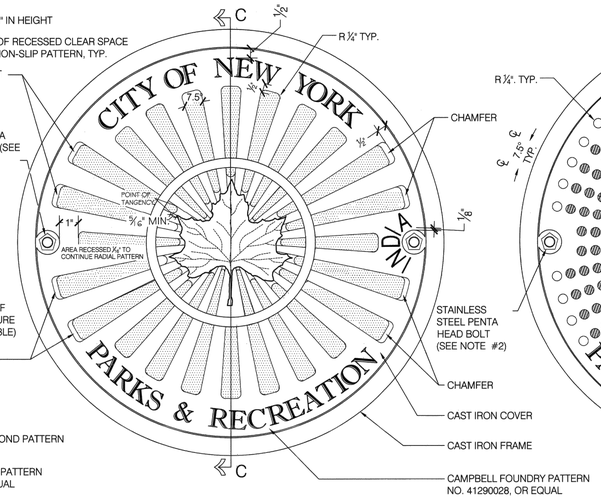
PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
BROWNSVILLE PLAYGROUND
BETWEEN MOTHER GASTON BLVD, HEGEMAN AVE AND LINDEN BLVD, BROOKLYN, NY

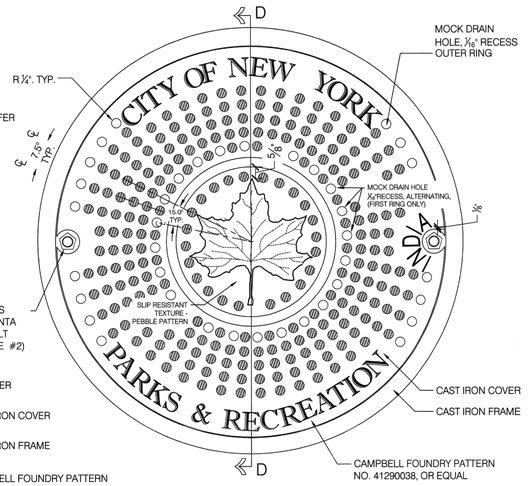
DRAWING TITLE
NYC PARKS DETAILS

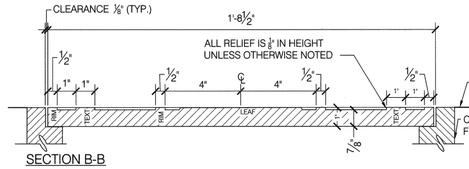
DESIGNED BY	DRAWN BY	CHECKED BY
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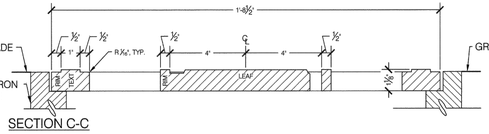
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	DATE: NOV 2026		SHEET No. 24 OF 29 SHEETS

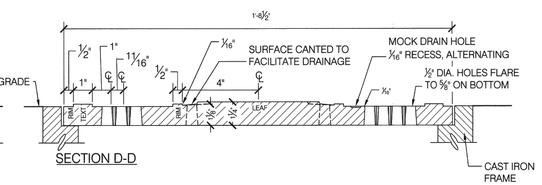








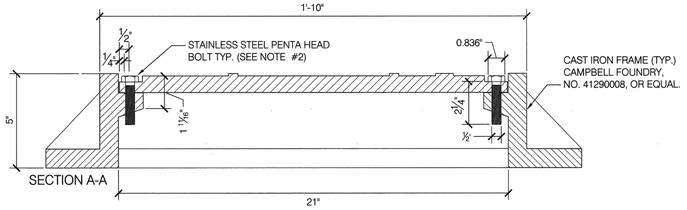














NOTES:

1. ALL COVERS SHALL PASS REQUIREMENTS FOR H-20 HIGHWAY LOADING, AS PER AASHTO.
2. PENTA-HEAD STAINLESS STEEL BOLT, ½" DIA. X 2- ¼" LENGTH, TWO (2) PER COVER, AS SUPPLIED BY CAMPBELL FOUNDRY CO, 800 BERGEN ST, HARRISON, NJ 07029, (973) 483-5480, OR APPROVED EQUAL. TYPICAL PLASTIC END CAPS ARE TO BE SUPPLIED WITH HARDWARE AND INSTALLED ON PENTA-HEAD BOLTS.
3. SEE STANDARD DETAIL SHEETS "WATER SUPPLY DETAILS" AND "DRAINAGE DETAILS" FOR INSTALLATION DETAILS.

NYC Parks

CITY OF NEW YORK
PARKS & RECREATION
OLMSTED CENTER
FLUSHING MEADOWS CORONA PARK
FLUSHING, NEW YORK 11368

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DRAWING TITLE
PARKS LEAF MANHOLE AND CATCH BASIN COVERS

	DRAWN BY: S. DAVENPORT	CHECKED BY: R. WEI, PE
	APPROVED BY:	STANDARD D.P.R. DETAIL: TYLA / 146-R9
	APPROVED BY DIRECTOR: CELIA M. PETERSEN, RLA	SHEET NO.: 5
	DATE: 05-07-2018	SCALE: AS SHOWN

NO.	DATE	ISSUED FOR	BY

SEAL



BLOCK 3868

LOT 2

Environmental Protection

CITY OF NEW YORK
ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis

NYC Parks

CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
BROWNSVILLE PLAYGROUND
BETWEEN MOTHER GASTON BLVD, HEGEMAN AVE AND LINDEN BLVD, BROOKLYN, NY

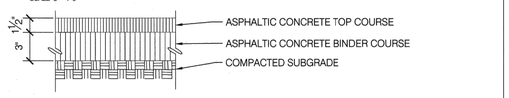
DRAWING TITLE
NYC PARKS DETAILS

DESIGNED BY	DRAWN BY	CHECKED BY
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	DATE: NOV 2026		SHEET No. 25 OF 29 SHEETS

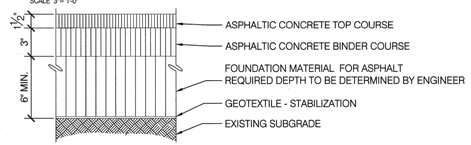
1 FULL DEPTH ASPHALT PAVEMENT

SCALE 3" = 1'-0"



2 ASPHALT PAVEMENT ON POOR SUBGRADE

SCALE 3" = 1'-0"



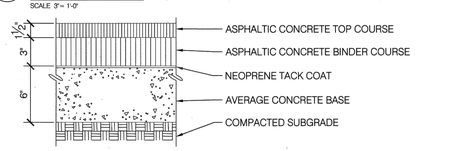
3 ASPHALT PAVEMENT FOR PARKING LOTS AND MINOR PAVED ROADS

SCALE 3" = 1'-0"



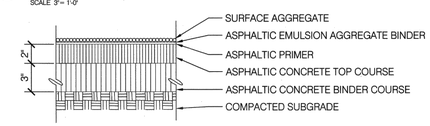
4 ASPHALT PAVEMENT FOR PARK ROADS AND PATHS

SCALE 3" = 1'-0"



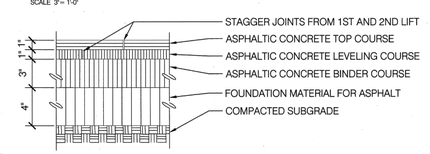
5 EXPOSED AGGREGATE ON FULL DEPTH ASPHALT PAVEMENT

SCALE 3" = 1'-0"



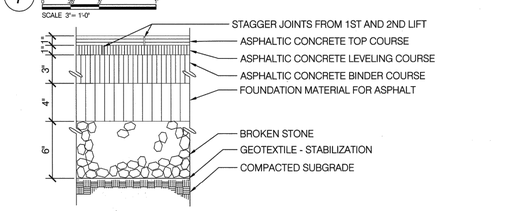
6 ASPHALT PAVEMENT FOR TENNIS COURTS & RUNNING TRACKS

SCALE 3" = 1'-0"



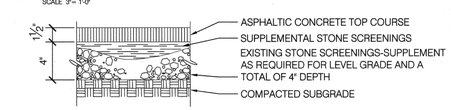
7 ASPHALT FOR TENNIS COURTS ON POOR SUBGRADE

SCALE 3" = 1'-0"



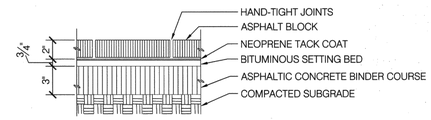
8 ASPHALT TOP COURSE ON EX. STONE SCREENINGS

SCALE 3" = 1'-0"



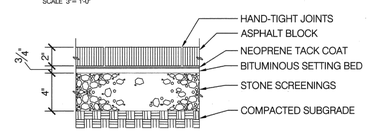
9 ASPHALT BLOCK ON ASPHALT CONCRETE BASE

SCALE 3" = 1'-0"



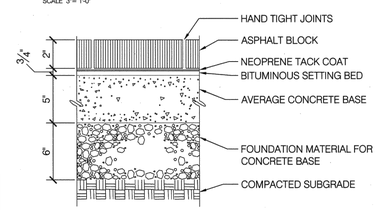
10 ASPHALT BLOCK ON STONE SCREENINGS

SCALE 3" = 1'-0"



11 ASPHALT BLOCK ON CONCRETE BASE

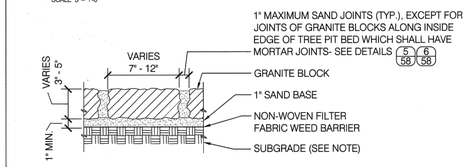
SCALE 3" = 1'-0"



NOTE: 3" THICK ASPHALT BLOCK REQUIRED FOR ROADS.

12 GRANITE BLOCK ON SAND FOR TREE PITS

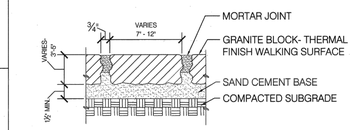
SCALE 3" = 1'-0"



NOTES:
1. FOR TREE PITS SEE STD. DETAIL SHEET "PLANTING DETAILS".
2. AROUND NEW TREES SUBGRADE TO BE COMPACTED.
3. AROUND EXISTING TREES; MIN. EXCAVATION. MIN. COMPACTION.
4. SEE SECTION C, ARTICLE 14.

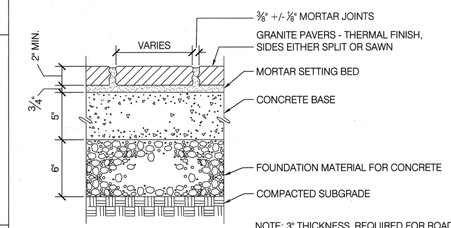
13 GRANITE BLOCK PAVEMENT ON SAND- ACCESSIBLE

SCALE 3" = 1'-0"



14 GRANITE PAVERS ON CONCRETE

SCALE 3" = 1'-0"



NOTE: 3" THICKNESS REQUIRED FOR ROADS.

CITY OF NEW YORK
PARKS & RECREATION
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FLUSHING MEADOWS CORONA PARK
FLUSHING, NEW YORK 11368

NYC Parks

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DRAWING TITLE
PAVEMENT DETAILS - NO.1

DRAWN BY: STAFF	CHECKED BY: R. WEI, PE
APPROVED BY:	STANDARD D.P.R. DETAIL: TYLA / 146-R9
APPROVED BY DIRECTOR: CELIA M. PETERSEN, RLA	SHEET NO.: 16
DATE: 05-07-2018	SCALE: AS SHOWN

NYC Environmental Protection

CITY OF NEW YORK
ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis

NYC Parks

CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

SEAL
STATE OF NEW YORK · FRANCO ANDRE MONTALTO · 050284 · LICENSED PROFESSIONAL ENGINEER

BLOCK 3868
LOT 2

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
BROWNSVILLE PLAYGROUND
BETWEEN MOTHER GASTON BLVD, HEGEMAN AVE AND LINDEN BLVD, BROOKLYN, NY

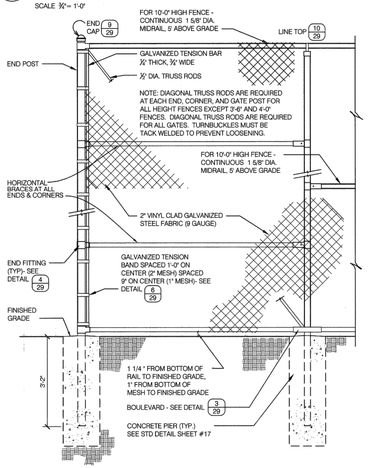
DRAWING TITLE
NYC PARKS DETAILS

DESIGNED BY	DRAWN BY	CHECKED BY
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B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	NO SCALE	D-8	GI-CONS-6
	DATE: NOV 2026		SHEET No. 26 OF 29 SHEETS

1 10'-0" HIGH CHAIN LINK FENCE *

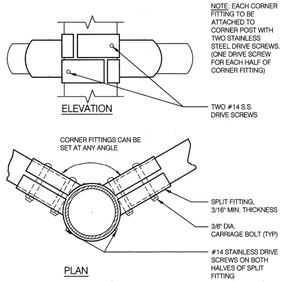
SCALE 3/4"= 1'-0"



* FOR OTHER HEIGHT FENCES, SEE SCHEDULE BELOW

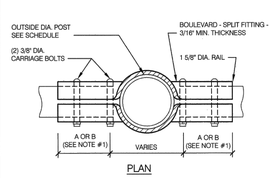
2 CORNER FITTING

SCALE 6"= 1'-0"



3 BOULEVARD

SCALE 6"= 1'-0"

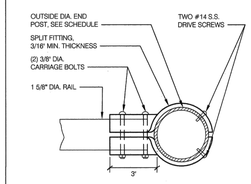


NOTES:
1. A= 1 3/4" FOR 1 7/8" - 41/2" O.D. POST
   B= 1 5/8" FOR 1 7/8" O.D. OR SMALLER POST
2. ALL CORNERS TO BE ROUNDED

EXCEPTION:
FOR POSTS LESS THAN 2 3/8" O.D. (SEE SCHEDULE OF SIZES OF MEMEBERS), ONLY ONE (1) CHARRIAGE BOLT IS REQUIRED FOR EACH SIDE OF BOULEVARD.

4 END FITTING

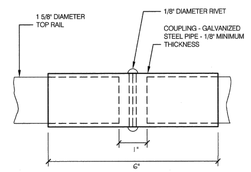
SCALE 6"= 1'-0"



NOTE: MINIMUM WIDTH OF END FITTING TO BE 2 1/4"

5 TOP RAIL COUPLING

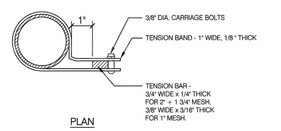
SCALE 9"= 1'-0"



NOTE: FURNISH ONE COUPLING FOR EACH LENGTH OF PIPE IN TOP RAIL - FULL LENGTH OF PIPE EQUALS 21'-0"

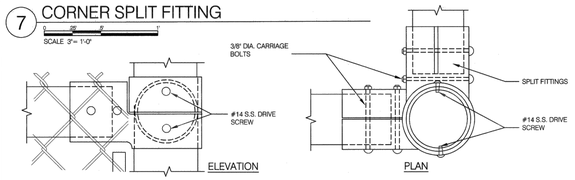
6 TENSION MEMBERS

SCALE 6"= 1'-0"



7 CORNER SPLIT FITTING

SCALE 3"= 1'-0"



BOLT AND FABRIC NOTES

PEEN END OF ALL BOLTS.

BOLTS WHICH ARE INSTALLED 6' OR LESS ABOVE GRADE SHALL NOT PROTRUDE MORE THAN1/4" BEYOND THE NUT AFTER TIGHTENING. ALL ROUGH EDGES SHALL BE FILED SMOOTH TO THE SATISFACTION OF THE ENGINEER.

ON FENCES OVER 12 FEET HIGH WHERE THE TWO WIDTHS OF FABRIC ARE REQUIRED, THE BOTTOM PIECE SHALL BE KNUCKLED TOP AND BOTTOM AND THE TOP PIECE KNUCKLED AT BOTTOM AND BARBED AT TOP.

THE TWO PIECES SHALL BE SPLICED IN SUCH A WAY AS TO GIVE A FINISHED NEAT APPEARANCE.

FABRIC TO BE KNUCKLED AT TOP AND BOTTOM RAILS ON FENCES UP TO AND INCLUDING 6'-0" HIGH AND BARBED AT TOP RAIL ON FENCES OVER 6'-0" HIGH.

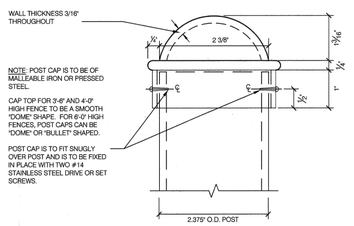
WIRE FABRIC NOTES

THE MESH SHALL BE PLACED ON THE OUTSIDE OF THE POSTS OF ALL EXTERIOR CHAINLINK FENCES INCLUDING HOODED BACKSTOPS AND HANDBALL COURT FENCES WHERE THESE ARE AN INTEGRAL PART OF THE EXTERIOR FENCE.

WHERE HOODED BACKSTOPS AND HANDBALL COURT FENCES ARE IN INTERIOR AREAS, THE MESH SHALL BE PLACED ON THE INSIDE OF THE POSTS.

8 SMALL POST CAP

SCALE 1'-0"= 1'-0"



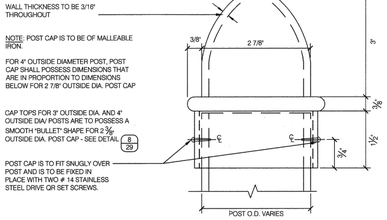
NOTE: POST CAP IS TO BE OF MALLEABLE IRON OR PRESSED STEEL.

CAP TOP FOR 3'-6" AND 4'-0" HIGH FENCE TO BE A SMOOTH "DOME" SHAPE. FOR 6'-0" HIGH FENCES, POST CAPS CAN BE "DOME" OR "BULLET" SHAPED.

POST CAP IS TO FIT SNUGLY OVER POST AND IS TO BE FIXED IN PLACE WITH TWO # 14 STAINLESS STEEL DRIVE OR SET SCREWS.

9 END, CORNER, & GATE POST CAP

SCALE 1'-0"= 1'-0"



NOTE: POST CAP IS TO BE OF MALLEABLE IRON.

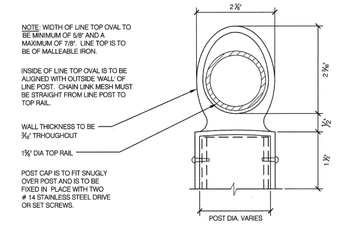
FOR 4" OUTSIDE DIAMETER POST, POST CAP SHALL POSSESS DIMENSIONS THAT ARE IN PROPORTION TO DIMENSIONS BELOW FOR 2 7/8" OUTSIDE DIA. POST CAP

CAP TOPS FOR 3" OUTSIDE DIA. AND 4" OUTSIDE DIA/ POSTS ARE TO POSSESS A SMOOTH "BULLET" SHAPE FOR 2 3/8" OUTSIDE DIA. POST CAP - SEE DETAIL 8/29

POST CAP IS TO FIT SNUGLY OVER POST AND IS TO BE FIXED IN PLACE WITH TWO # 14 STAINLESS STEEL DRIVE OR SET SCREWS.

10 POST LINE TOP

SCALE 1'-0"= 1'-0"



NOTE: WIDTH OF LINE TOP OVAL TO BE MINIMUM OF 5/8" AND A MAXIMUM OF 7/8". LINE TOP IS TO BE OF MALLEABLE IRON.

INSIDE OF LINE TOP OVAL IS TO BE ALIGNED WITH OUTSIDE WALL OF LINE POST. CHAIN LINK MESH MUST BE STRAIGHT FROM LINE POST TO TOP RAIL.

WALL THICKNESS TO BE 3/16" THROUGHOUT

1 5/8" DIA TOP RAIL

POST CAP IS TO FIT SNUGLY OVER POST AND IS TO BE FIXED IN PLACE WITH TWO # 14 STAINLESS STEEL DRIVE OR SET SCREWS.

SCHEDULE OF SIZES OF MEMBERS*

HEIGHT OF FENCE	DIAMETER OF LINE POSTS*	POST SPACING MAX.	CORNER & END POST	TOP RAIL	MID RAILS	BOTTOM RAIL	DEPTH OF POST INTO CURB AND FTG AT: LINE POST	DEPTH OF POST INTO CURB AND FTG AT: END/CORNER/ GATE POST	HORIZONTAL BRACES AT CORNER & END POST	DIAGONAL BRACES
3'-6" & 4'-0"	1 7/8"	6'-0"	2 3/8"	1 5/8"	0	1 5/8"	1'-0"	1'-6"	0	0
6'-0"	1 7/8"	6'-0"	2 3/8"	1 5/8"	0	1 5/8"	1'-8"	2'-0"	0	1/2" DIA.
8'-0"	2 3/8"	8'-0"	2 7/8"	1 5/8"	0	1 5/8"	1'-8"	2'-0"	1 AT 1 5/8"	1/2" DIA.
10'-0"	2 7/8"	10'-0"	4"	1 5/8"	(1)-1 5/8"	1 5/8"	3'-2"	3'-2"	2 AT 1 5/8"	1/2" DIA.
12'-0"	2 7/8"	10'-0"	4"	1 5/8"	(1)-1 5/8"	1 5/8"	3'-2"	4'-2"	2 AT 1 5/8"	1/2" DIA.
14'-0"	3 1/2"	10'-0"	4"	1 5/8"	(2)-1 5/8"	1 5/8"	3'-2"	4'-2"	2 AT 1 5/8"	1/2" DIA.
16'-0"	3 1/2"	10'-0"	4"	1 5/8"	(2)-1 5/8"	1 5/8"	3'-2"	4'-2"	2 AT 1 5/8"	1/2" DIA.
18'-0"	3 1/2"	10'-0"	4"	1 5/8"	(2)-1 5/8"	1 5/8"	3'-2"	4'-2"	2 AT 1 5/8"	1/2" DIA.
20'-0"	4 1/2"	10'-0"	4 1/2"	1 5/8"	(3)-1 5/8"	1 5/8"	4'-2"	4'-6"	3 AT 1 5/8"	1/2" DIA.

*ALL PIPE DIAMETERS ARE TRADE SIZE DIAMETERS AS SPECIFIED IN ASTM F1043, TABLE 1. SEE 'PIPE THICKNESS CHARTS' FOR ACTUAL O.D. AND THICKNESS OF PIPE.

FABRIC WIDTHS

HEIGHT OF FENCE	WIDTH OF BOTTOM FABRIC	WIDTH OF TOP FABRIC
3'-6" - 4'-0"	3'-6" - 4'-0"	0
6'-0"	6'-0"	0
8'-0"	8'-0"	0
10'-0"	10'-0"	0
12'-0"	8'-0"	4'-0"
14'-0"	10'-0"	4'-0"
16'-0"	10'-0"	6'-0"
18'-0"	10'-0"	8'-0"
20'-0"	10'-0"	10'-0"

PIPE THICKNESS CHARTS

SS-40

TRADE SIZE DIAMETER	ACTUAL O.D. SIZE	ACTUAL I.D. SIZE	PIPE WALL THICKNESS	WEIGHT (LBS/FOOT)
1 5/8"	1.660	1.438	0.111	1.84
1 7/8"	1.900	1.660	0.120	2.28
2 3/8"	2.375	2.115	0.130	3.12
2 7/8"	2.875	2.555	0.160	4.64
3 1/2"	3.500	3.180	0.160	5.71
4"	4.000	3.680	0.160	6.56

SCHEDULE 40

TRADE SIZE DIAMETER	ACTUAL O.D. SIZE	ACTUAL I.D. SIZE	PIPE WALL THICKNESS	WEIGHT (LBS/FOOT)
1 5/8"	1.660	1.380	0.140	2.27
1 7/8"	1.900	1.610	0.145	2.72
2 3/8"	2.375	2.067	0.154	3.65
2 7/8"	2.875	2.469	0.203	5.79
3 1/2"	3.500	3.068	0.216	7.58
4"	4.000	3.548	0.226	9.11

POST & RAIL NOTES

FENCE POSTS AND RAILS SHALL BE EITHER TYPE I OR TYPE II:

TYPE I - ROUND MEMBERS SHALL BE HOT DIPPED GALVANIZED CONFORMING TO ASTM F1083 STANDARD WEIGHT SCHEDULE 40.

TYPE II - ROUND MEMBERS SHALL BE MANUFACTURED FROM STEEL CONFORMING TO ASTM A1011/A1011M COLD ROLLED WELDED AND HAVE TENSILE STRENGTH OF 50,000 PSI AND GIVEN CORROSION PROTECTION PER ASTM F1043 TYPE B FOR EXTERNAL COATING AND TYPE D FOR INTERNAL COATING, SUCH AS SS-40.

PROVIDE ADDITIONAL RAIL IN LOWER THIRD OF FENCE AT BASKETBALL BACKSTOPS, AT EACH END OF BASKETBALL COURTS AND ALL AROUND HANDBALL COURTS.

SEE STANDARD DETAIL SHEETS #44, #45 AND #48.

NYC Parks

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DRAWING TITLE
CHAIN LINK FENCE - DETAILS

DRAWN BY: M. MERIC	CHECKED BY: R. WEI, PE
APPROVED BY	STANDARD D.P.R. DETAIL: TLYA / 146-R9
APPROVED BY DIRECTOR: CELIA M. PETERSEN, RLA	SHEET NO.: 29
DATE: 05-07-2018	SCALE: AS SHOWN

NYC Environmental Protection

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NO.	DATE	ISSUED FOR	BY

SEAL: STATE OF NEW YORK · FRANCO ANDRE MONTALTO · 090284 · LICENSED PROFESSIONAL ENGINEER

BLOCK 3868
LOT 2

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
BROWNSVILLE PLAYGROUND
BETWEEN MOTHER GASTON BLVD, HEGEMAN AVE AND LINDEN BLVD, BROOKLYN, NY

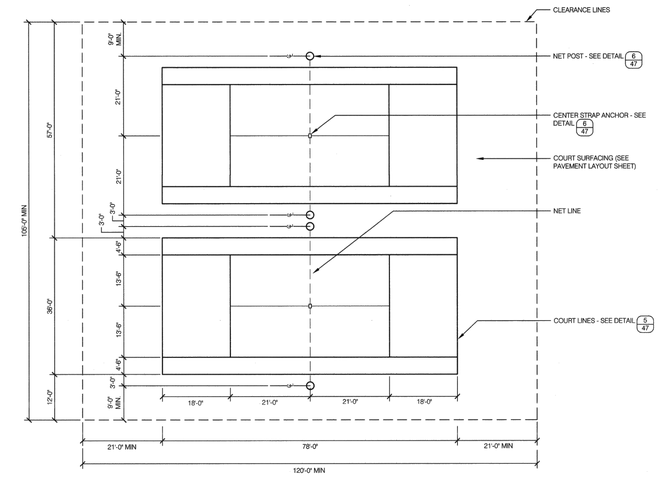
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B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	NO SCALE	D-9	GI-CONS-6
	DATE: NOV 2026		SHEET No. 27 OF 29 SHEETS

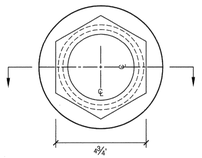
1 PLAN - BATTERY OF TENNIS COURTS

SCALE 1"= 10'-0"

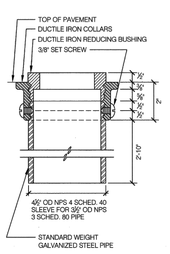


2 REDUCING BUSHING

SCALE 6"= 1'-0"



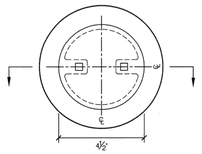
PLAN



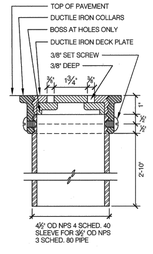
SECTION

3 DECK PLATE

SCALE 6"= 1'-0"



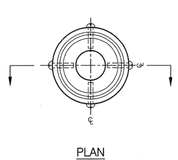
PLAN



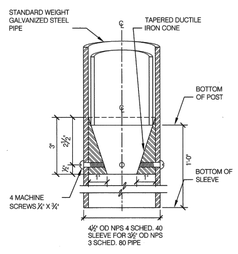
SECTION

4 TAPERED RING SLEEVE AND FITTING FOR POST

SCALE 6"= 1'-0"



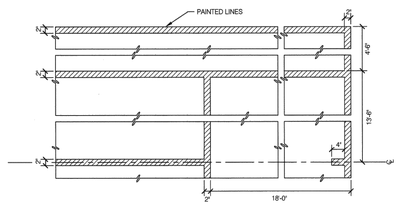
PLAN



SECTION

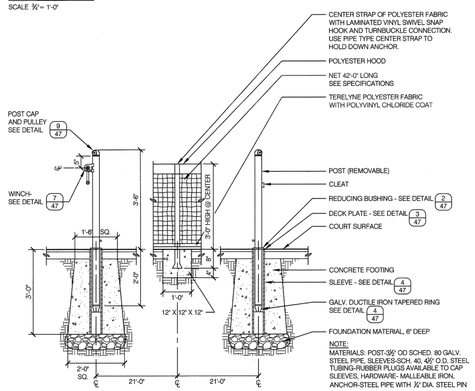
5 DIMENSIONING OF COURT LINES

SCALE 1"= 10'-0"



6 TENNIS NET POST AND CENTER STRAP ANCHOR-FRONT ELEVATION

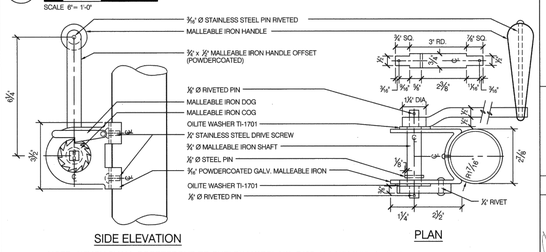
SCALE ½"= 1'-0"



NOTE:
MATERIALS: POST-3½" OD SCHED. 80 GALV. STEEL PIPE, SLEEVES-SCH. 40, 4½" O.D. STEEL TUBING-RUBBER PLUGS AVAILABLE TO CAP SLEEVES, HARDWARE- MALLEABLE IRON, ANCHOR-STEEL PIPE WITH ½" DIA. STEEL PIN

7 DETAIL OF WINCH

SCALE 6"= 1'-0"



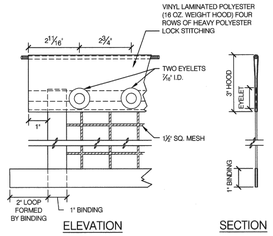
SIDE ELEVATION

PLAN

NOTE: WINCH SHALL CORRESPOND TO SHELBY MODEL NO. 5403, OR APPROVED EQUAL

8 DETAIL OF HOOD AND NET

SCALE 6"= 1'-0"

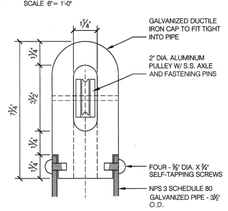


ELEVATION

SECTION

9 POST CAP AND PULLEY

SCALE 6"= 1'-0"



SIDE ELEVATION

NOTE: HEIGHT OF POST SHALL BE MEASURED FROM FINISHED GRADE TO TOP OF PULLEY

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DRAWING TITLE
TENNIS COURT LAYOUT AND DETAILS

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APPROVED BY:	STANDARD D.P.R. DETAIL: TYLA / 146-R9
APPROVED BY DIRECTOR: CELIA M. PETERSEN, RLA	SHEET NO.: 21
DATE: 05-07-2018	SCALE: AS SHOWN

NYC Environmental Protection

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Bureau of Environmental Planning and Analysis

NYC Parks

CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

SEAL

FRANCO ANDRE MONTALTO 060284 LICENSED PROFESSIONAL ENGINEER STATE OF NEW YORK

BLOCK 3868
LOT 2

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
BROWNSVILLE PLAYGROUND
BETWEEN MOTHER GASTON BLVD, HEGEMAN AVE AND LINDEN BLVD, BROOKLYN, NY

DRAWING TITLE
NYC PARKS DETAILS

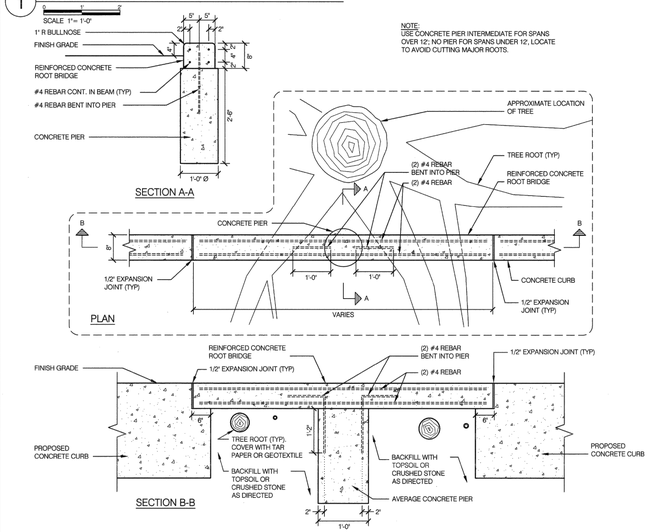
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B-SCAN

SCALE	DRAWING NO.	CONTRACT NO.
NO SCALE	D-10	GI-CONS-6
DATE: NOV 2026		SHEET No. 28 OF 29 SHEETS

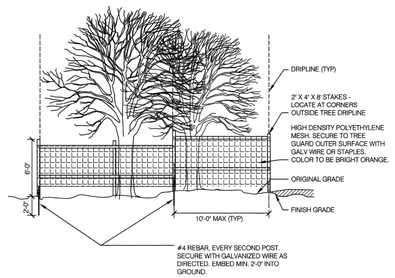
1 TREE ROOT BRIDGE

SCALE: 1"= 1'-0"



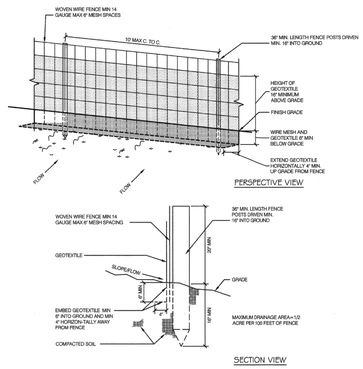
2 TREE GUARD FOR GROVES

SCALE: 1/2"= 1'-0"



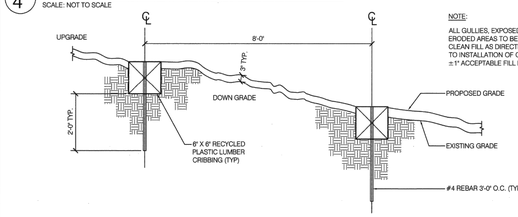
3 SILT FENCE DETAILS

SCALE: NOT TO SCALE



4 TYPICAL CRIBBING

SCALE: NOT TO SCALE

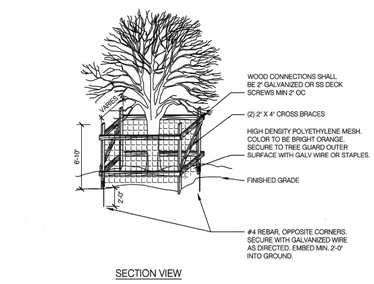


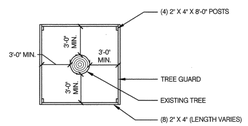
NOTE:

ALL GULLIES, EXPOSED ROOTS, AND SEVERELY ERODED AREAS TO BE FILLED WITH TOPSOIL OR CLEAN FILL AS DIRECTED BY THE ENGINEER PRIOR TO INSTALLATION OF CRIBBING. APPROXIMATELY 4" (±1" ACCEPTABLE FILL FOR PLANTING AREAS).

5 TREE GUARD

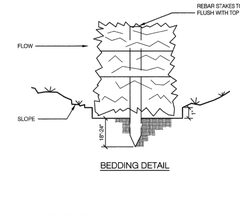
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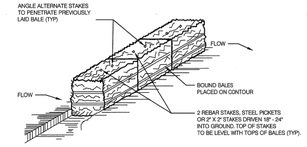




6 STRAW BALE DIKE DETAILS

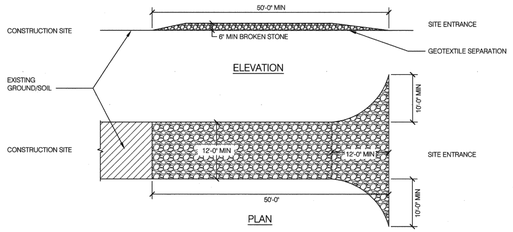
SCALE: NOT TO SCALE





7 STABILIZED CONSTRUCTION ENTRANCE

SCALE: NOT TO SCALE



CITY OF NEW YORK
PARKS & RECREATION
OLMSTED CENTER
FLUSHING MEADOWS CORONA PARK
FLUSHING, NEW YORK 11368

NYC Parks

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DRAWING TITLE
TREE PROTECTION AND SEDIMENT CONTROL

DRAWN BY	CHECKED BY
M. MERIC	R. WEI, PE/ S. WHITESELL
APPROVED BY	STANDARD D.P.R. DETAIL
	TYLA / 145-R9
APPROVED BY DIRECTOR	SHEET NO.
CELIA M. PETERSEN, FLA	29
DATE	SCALE
05-07-2018	AS SHOWN

NO.	DATE	ISSUED FOR	BY

SEAL

STATE OF NEW YORK · FRANCO ANDRE MONTALTO · 050284 · LICENSED PROFESSIONAL ENGINEER

BLOCK
3868

LOT
2

Environmental Protection

CITY OF NEW YORK
ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis

NYC Parks

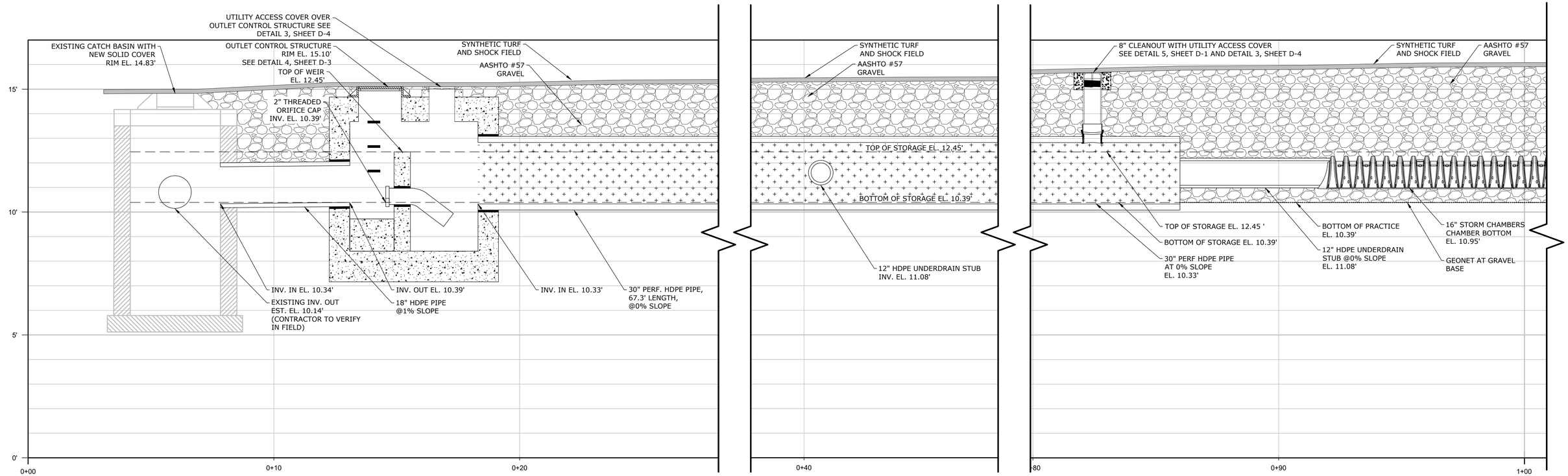
CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
BROWNSVILLE PLAYGROUND
BETWEEN MOTHER GASTON BLVD, HEGEMAN AVE AND LINDEN BLVD, BROOKLYN, NY

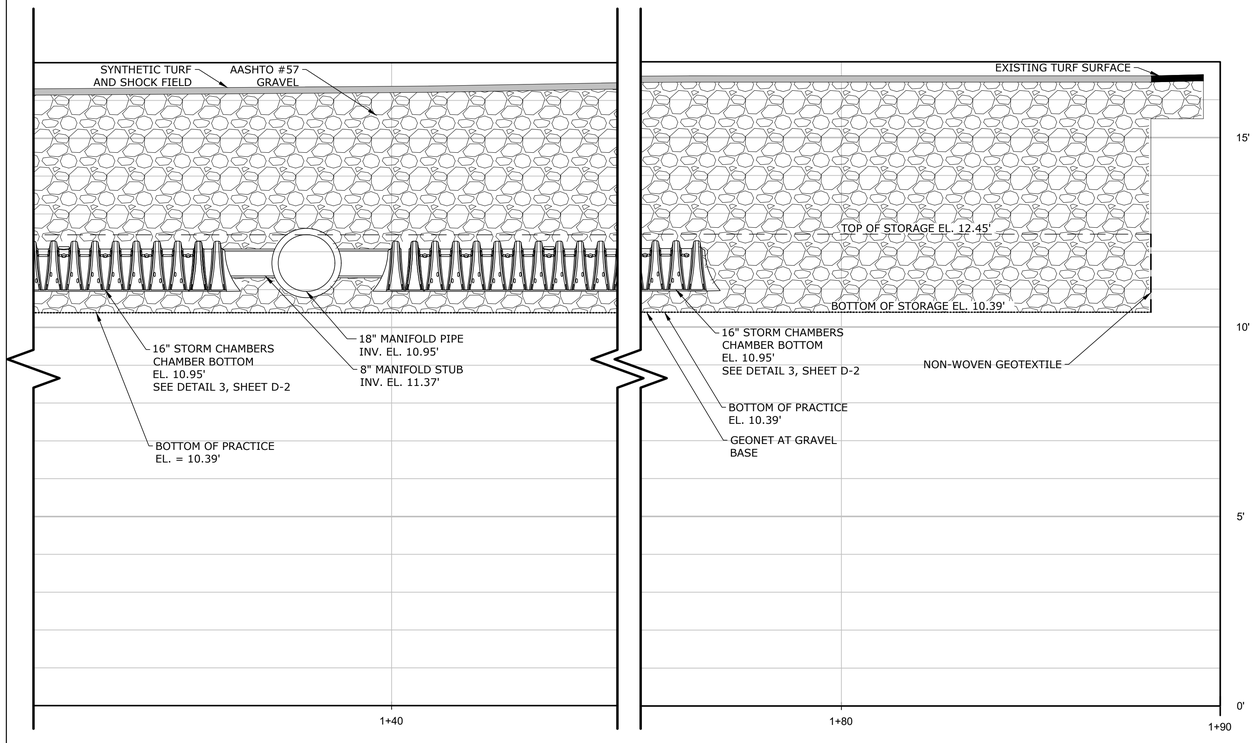
DRAWING TITLE
NYC PARKS DETAILS

DESIGNED BY	DRAWN BY	CHECKED BY
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B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	NO SCALE	D-11	GI-CONS-6
	DATE NOV 2026		SHEET No. 29 OF 29 SHEETS



PROFILE A-A'
Scale: 1" = 2'



PROFILE A-A' (CONT.)
Scale: 1" = 2'

Environmental Protection

CITY OF NEW YORK
ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis

NYC Parks

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PARKS & RECREATION
Forestry, Horticulture and Natural Resources

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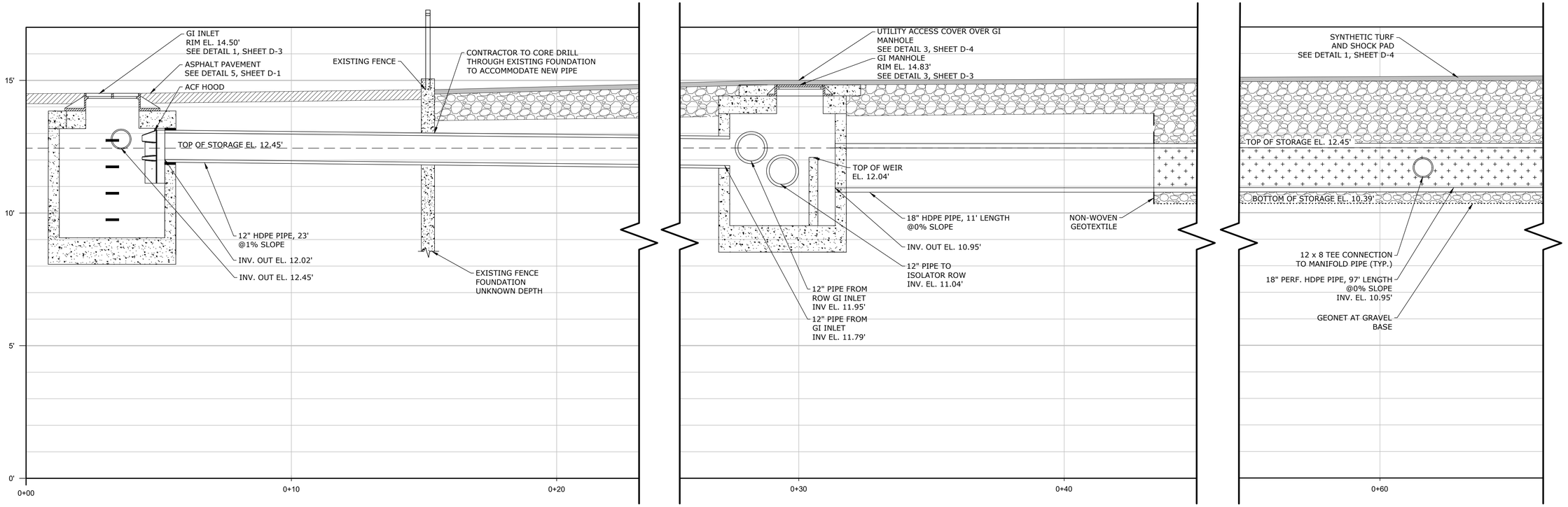
BLOCK
3868

LOT
2

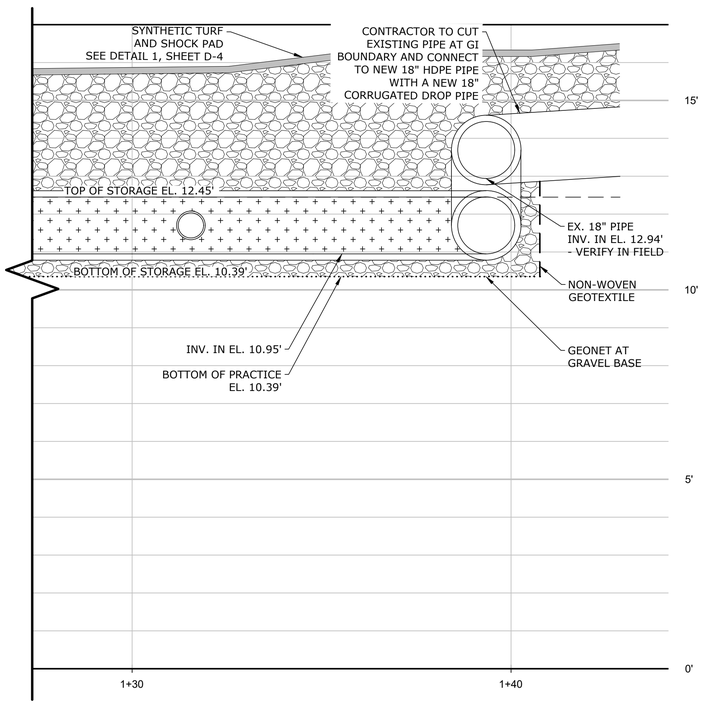
PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
BROWNSVILLE PLAYGROUND
BETWEEN MOTHER GASTON BLVD, HEGEMAN AVE AND LINDEN BLVD, BROOKLYN, NY

DRAWING TITLE
PROFILES

DESIGNED BY	DRAWN BY		CHECKED BY
AR	AR		KT
B-SCAN	SCALE: 1" = 2'	DRAWING NO.: P-1	CONTRACT NO.: GI-CONS-6
	DATE: NOV 2026		SHEET No. 17 OF 29 SHEETS



PROFILE B-B'
Scale: 1" = 2'



PROFILE B-B' (CONT.)
Scale: 1" = 2'

Environmental Protection

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Bureau of Environmental Planning and Analysis

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STATE OF NEW YORK
FRANCO ANDRE MONTALTO
LICENSED PROFESSIONAL ENGINEER
090284

BLOCK
3868

LOT
2

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
BROWNSVILLE PLAYGROUND
BETWEEN MOTHER GASTON BLVD, HEGEMAN AVE AND LINDEN BLVD, BROOKLYN, NY

DRAWING TITLE
PROFILES

DESIGNED BY	DRAWN BY	CHECKED BY
AR	AR	KT

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 2'	P-2	GI-CONS-6
	DATE NOV 2026		SHEET No. 18 OF 29 SHEETS

NEW YORK CITY ENVIRONMENTAL PROTECTION
BUREAU OF ENVIRONMENTAL PLANNING & ANALYSIS

NYC Parks

ON-SITE GREEN INFRASTRUCTURE
HUNTS POINT CSO TRIBUTARY AREA- OUTFALL HP-024

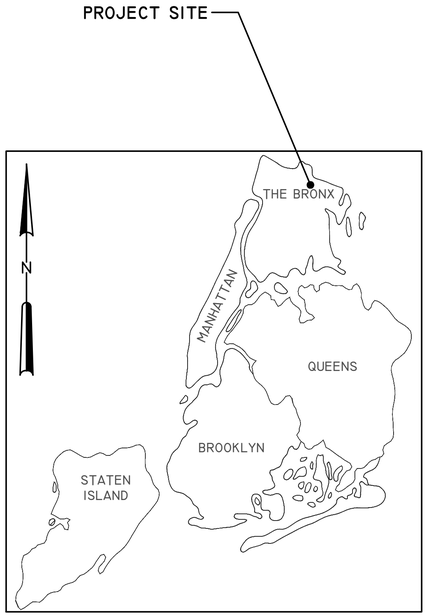
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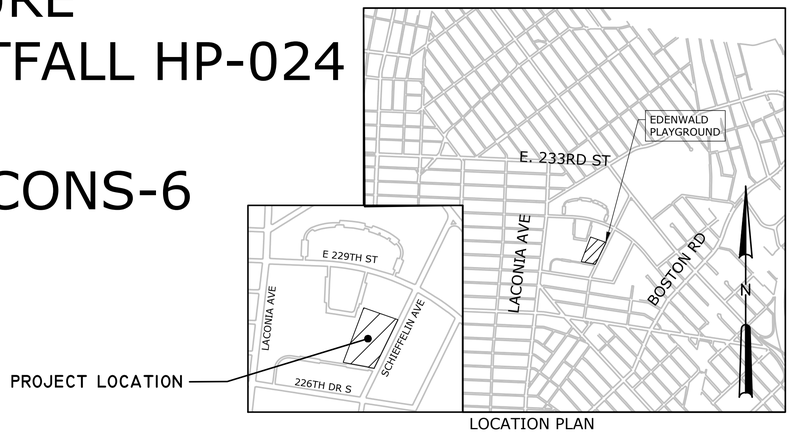
X165 EDENWALD PLAYGROUND

BBL# 2049050500

BRONX, NY

BID SET - NOV 2026





LOCATION PLAN

SHEET LIST	
Sheet Number	Sheet Title
G001	COVER SHEET
G002	GENERAL NOTES
G003	LEGEND AND ABBREVIATIONS
S001	TOPOGRAPHIC SURVEY - 1
S002	TOPOGRAPHIC SURVEY - 2
S003	TOPOGRAPHIC SURVEY - 3
S004	TOPOGRAPHIC SURVEY - 4
S005	TOPOGRAPHIC SURVEY - 5
S006	TOPOGRAPHIC SURVEY - 6
S007	TOPOGRAPHIC SURVEY - 7
S008	TOPOGRAPHIC SURVEY - 8
B100	BORING PLAN
B101	BORING LOGS
C100	TREE PROTECTION, STAGING, AND ACCESS PLAN
C101	TREE PROTECTION SCEHDULE
C102	REMOVAL AND DEMOLITION PLAN
C200	PROPOSED GREEN INFRASTRUCTURE LAYOUT PLAN
C201	MATERIALS PLAN
C300	SECTION AND PROFILES - 1
C301	SECTION AND PROFILES - 2
C302	SECTION AND PROFILES - 3
C500	DETAILS - 1
C501	DETAILS - 2

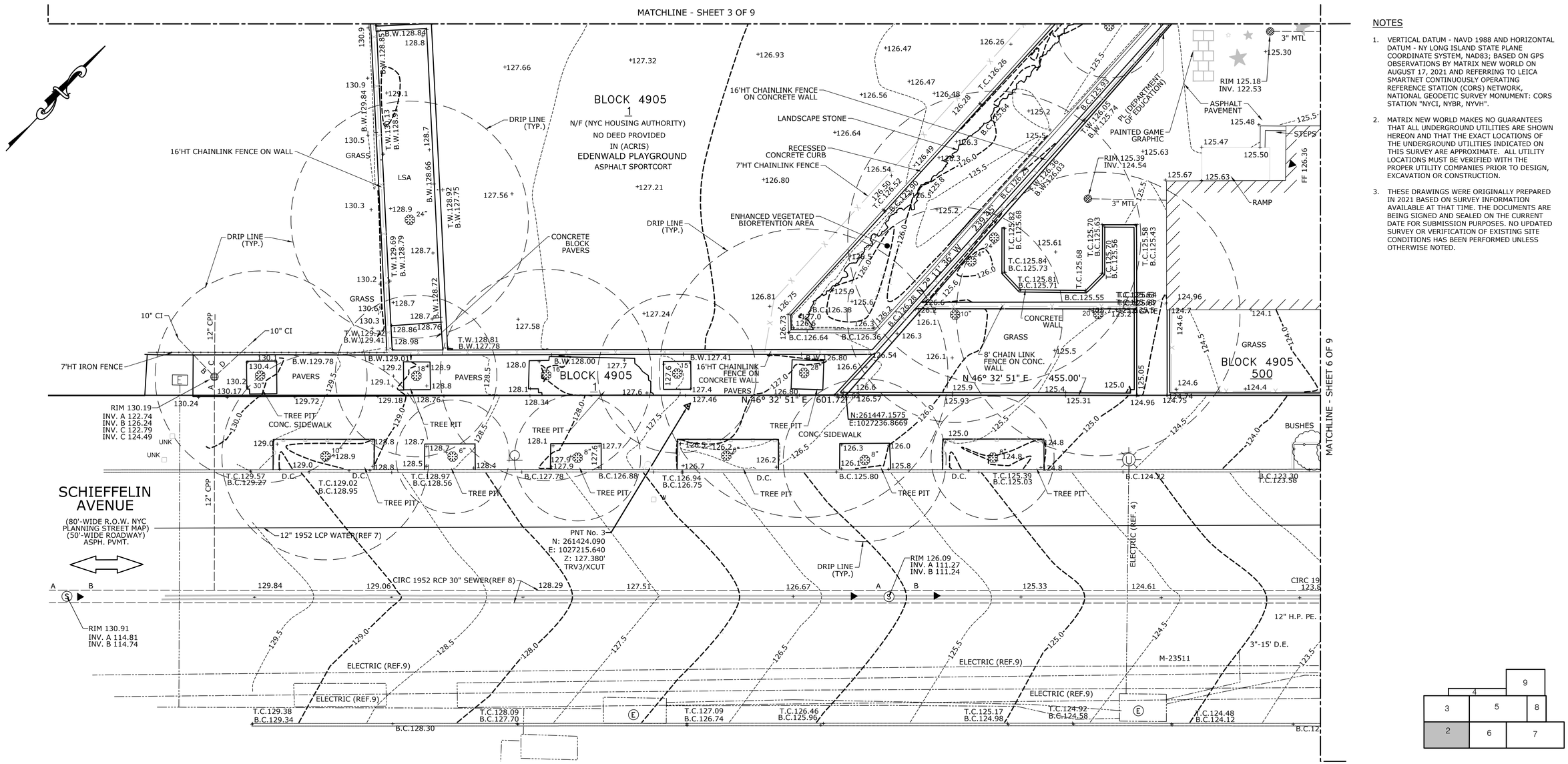
John McLaughlin
Digitally signed by John McLaughlin
Date: 2026.11.03 09:28:01 -05'00'

JOHN MCLAUGHLIN
MANAGING DIRECTOR
OFFICE OF ECOSYSTEM SERVICES, GREEN INFRASTRUCTURE AND RESEARCH
BUREAU OF ENVIRONMENTAL PLANNING & ANALYSIS, NYCDEP

Lisa F. Garcia
Digitally signed by Lisa F. Garcia
Date: 2026.11.02 15:33:34 -05'00'

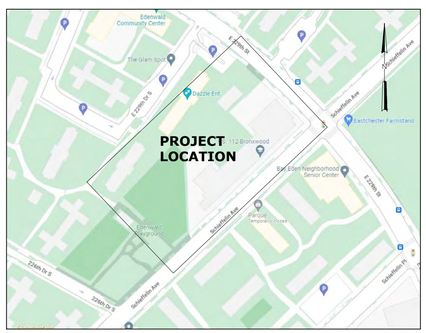
LISA F. GARCIA
COMMISSIONER
NYCDEP

File = \\Onadrs-a.corn\Rfiles\dark.cung\Man\City\NYProjects\0500003.0000 - GI-P4.0 Design\CAD\Final Bid Documents (Renewal)\SHEETS\EDENWALD\Sheets\1 - G001 COVER SHEET_V1 Saved Date = 10/21/2025 11:58 PM
PLOT DATE: 10/22/2025 11:18 PM BY: AKOPEVA



NOTES

1. VERTICAL DATUM - NAVD 1988 AND HORIZONTAL DATUM - NY LONG ISLAND STATE PLANE COORDINATE SYSTEM, NAD83; BASED ON GPS OBSERVATIONS BY MATRIX NEW WORLD ON AUGUST 17, 2021 AND REFERRING TO LEICA SMARTNET CONTINUOUSLY OPERATING REFERENCE STATION (CORS) NETWORK, NATIONAL GEODETIC SURVEY MONUMENT: CORS STATION "NYCI, NYBR, NYVH".
2. MATRIX NEW WORLD MAKES NO GUARANTEES THAT ALL UNDERGROUND UTILITIES ARE SHOWN HEREON AND THAT THE EXACT LOCATIONS OF THE UNDERGROUND UTILITIES INDICATED ON THIS SURVEY ARE APPROXIMATE. ALL UTILITY LOCATIONS MUST BE VERIFIED WITH THE PROPER UTILITY COMPANIES PRIOR TO DESIGN, EXCAVATION OR CONSTRUCTION.
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GOOGLE MAP *NOT TO SCALE*

REFERENCES

1. LOT 500 BLOCK 4905 - NO VESTING DEED PROVIDED.
2. BOUNDARY SURVEY IS PREPARED WITHOUT A TITLE REPORT. BOUNDARY LINE SHOWN ARE BASED ON CITY RECORD MAP PER NOTES 3, 4 AND 5.
3. FINAL SECTION MAP NO. 34, OFFICE OF THE PRESIDENT OF THE BOROUGH OF BRONX TOPOGRAPHICAL BUREAU MAP OF THE BOROUGH OF BRONX CITY OF NEW YORK AMENDED AND CORRECTED TO MARCH 11, 1929 UPDATED DATE 9-04, 1992.
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5. DIGITAL NYC TAX MAP EFFECTIVE DATE: 12-04-2019 END DATE: CURRENT.
6. GAS: NATIONAL GRID GAS UTILITY PLATE No. 37-W.
7. WATER: NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION WATER MAPPING.
8. SEWER: NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION SEWER MAPPING.
9. ELECTRIC: CONSOLIDATED EDISON COMPANY OF NEW YORK INC. - BROOKLYN-QUEENS CONDUIT AND DUCT OCCUPANCY; LOW TENSION MAINS AND SERVICE PLATE No. x36w & x37w.
10. CABLE: BRONX OPTIMUM MAP NO. 1025-260B.

10 5 0 10 20 30
GRAPHIC SCALE
1 inch=10 feet

NYC Environmental Protection

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ENVIRONMENTAL PROTECTION
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Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

SEAL

STATE OF NEW YORK
RONALD STEPHEN WORDEN
049819
LICENSED LAND SURVEYOR

BLOCK

LOT

PROJECT TITLE EDENWALD PLAYGROUND

DRAWING TITLE TOPOGRAPHIC & BOUNDARY SURVEY

DESIGNED BY	DRAWN BY	CHECKED BY
NA	C.LANE	B.WYNESS

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1"=10'		
	DATE 6-15-2026		Sheet 2 of 9



NOTES

1. VERTICAL DATUM - NAVD 1988 AND HORIZONTAL DATUM - NY LONG ISLAND STATE PLANE COORDINATE SYSTEM, NAD83; BASED ON GPS OBSERVATIONS BY MATRIX NEW WORLD ON AUGUST 17, 2021 AND REFERRING TO LEICA SMARTNET CONTINUOUSLY OPERATING REFERENCE STATION (CORS) NETWORK, NATIONAL GEODETIC SURVEY MONUMENT: CORS STATION "NYCI, NYBR, NYVH".

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MATCHLINE - SHEET 4 OF 9

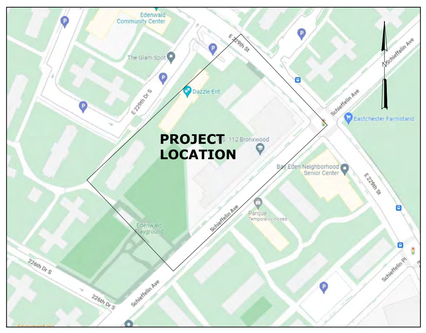
MATCHLINE - SHEET 5 OF 9

MATCHLINE - SHEET 2 OF 9

BLOCK 4905
1
N/F (NYC HOUSING AUTHORITY)
NO DEED PROVIDED
IN (ACRIS)
EDENWALD PLAYGROUND
ASPHALT SPORTCORT

PNT No. 2
N: 261658.590
E: 1027149.280
Z: 126.060'
TRV2/GPS XCUT

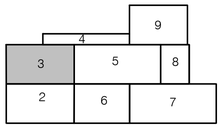
16'HT CHAINLINK FENCE ON CONCRETE WALL
6'HT CHAINLINK FENCE
DRIP LINE (TYP.)
ASPHALT PAVEMENT
PAINTED GAME GRAPHIC
OVERHEAD BATTING CAGE
CONCRETE WALL
4'HT CHAINLINK FENCE ON RAMP
16'HT CHAINLINK FENCE ON WALL
GATE
INLET
GR. 125.34
INV. 121.69
LANDSCAPE STONE
RECESSED CONCRETE CURB
7'HT CHAINLINK FENCE
ENHANCED VEGETATED BIORETENTION AREA
UNK



GOOGLE MAP *NOT TO SCALE*

REFERENCES

1. LOT 500 BLOCK 4905 - NO VESTING DEED PROVIDED.
2. BOUNDARY SURVEY IS PREPARED WITHOUT A TITLE REPORT. BOUNDARY LINE SHOWN ARE BASED ON CITY RECORD MAP PER NOTES 3, 4 AND 5.
3. FINAL SECTION MAP NO. 34, OFFICE OF THE PRESIDENT OF THE BOROUGH OF BRONX TOPOGRAPHICAL BUREAU MAP OF THE BOROUGH OF BRONX CITY OF NEW YORK AMENDED AND CORRECTED TO MARCH 11, 1929 UPDATED DATE 9-04, 1992.
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9. ELECTRIC: CONSOLIDATED EDISON COMPANY OF NEW YORK INC. - BROOKLYN-QUEENS CONDUIT AND DUCT OCCUPANCY; LOW TENSION MAINS AND SERVICE PLATE No. x36w & x37w.
10. CABLE: BRONX OPTIMUM MAP NO. 1025-260B.



10 5 0 10 20 30
GRAPHIC SCALE
1 inch=10 feet

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Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

SEAL
STATE OF NEW YORK
DAVID STEPHEN WINGATE
049810
LICENSED LAND SURVEYOR

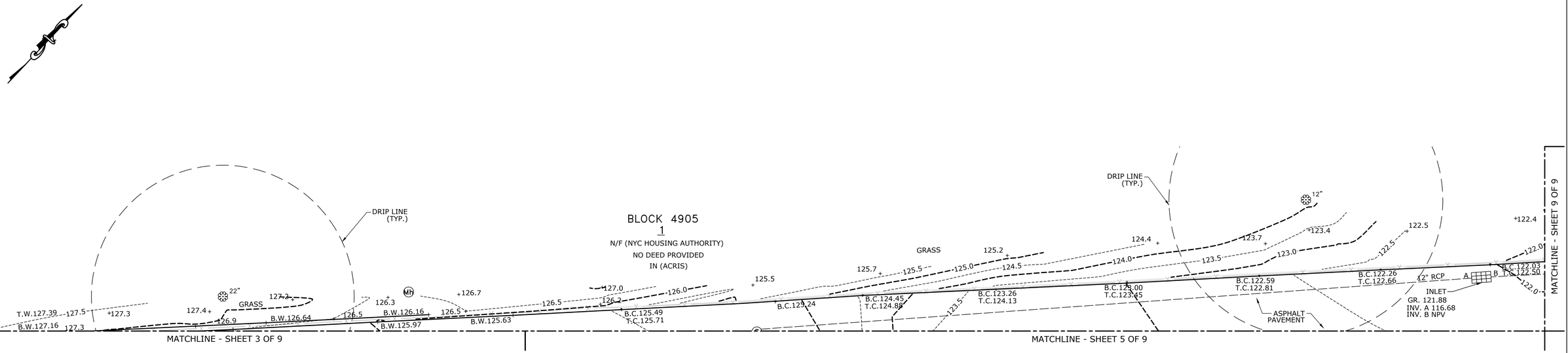
BLOCK
LOT

PROJECT TITLE EDENWALD PLAYGROUND

DRAWING TITLE TOPOGRAPHIC & BOUNDARY SURVEY

DESIGNED BY	DRAWN BY	CHECKED BY
NA	C.LANE	B.WYNESS

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1"=10'		
	DATE 6-15-2026		Sheet 3 of 9

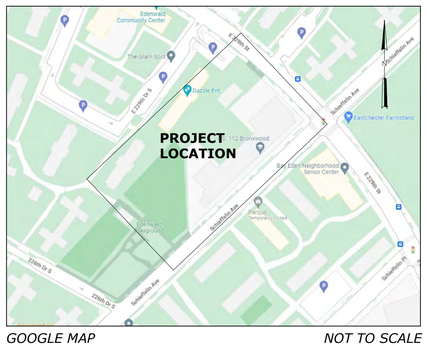


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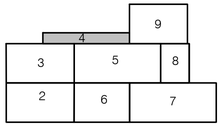
REFERENCES

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GOOGLE MAP *NOT TO SCALE*

GRAPHIC SCALE
10 5 0 10 20 30
1 inch=10 feet



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NYC Parks

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Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

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STATE OF NEW YORK
DAVID STEPHEN WORKMAN
049510
LICENSED LAND SURVEYOR

BLOCK


LOT

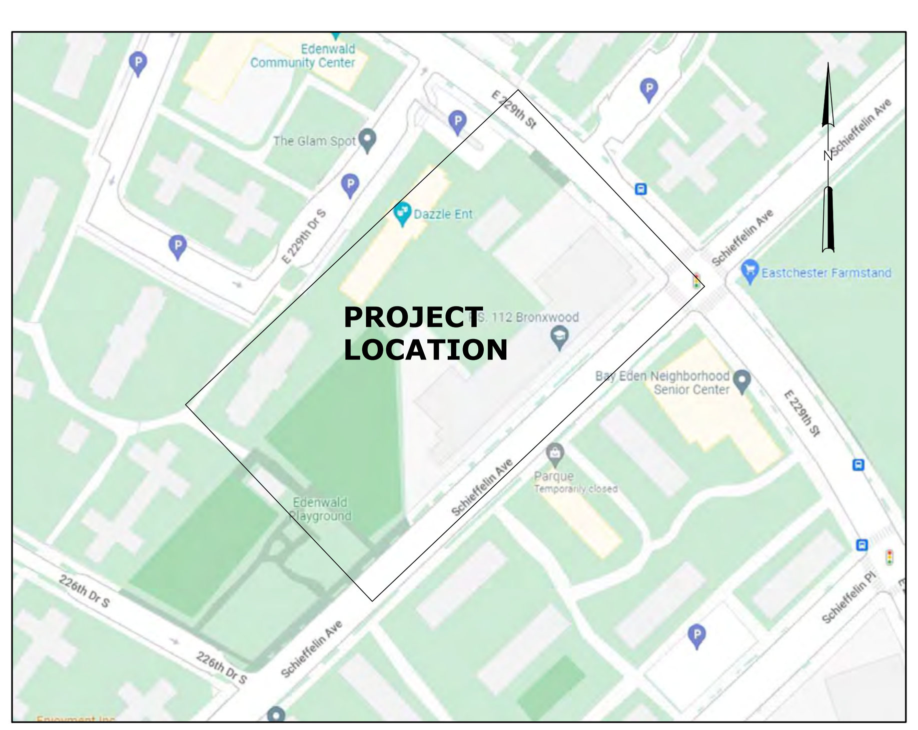
PROJECT TITLE EDENWALD PLAYGROUND

DRAWING TITLE TOPOGRAPHIC & BOUNDARY SURVEY

DESIGNED BY	DRAWN BY	CHECKED BY
NA	C.LANE	B.WYNESS

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1"=10'		
	DATE 6-15-2026		Sheet 4 of 9





GOOGLE MAP *NOT TO SCALE*

NOTES

1. VERTICAL DATUM - NAVD 1988 AND HORIZONTAL DATUM - NY LONG ISLAND STATE PLANE COORDINATE SYSTEM, NAD83; BASED ON GPS OBSERVATIONS BY MATRIX NEW WORLD ON AUGUST 17, 2021 AND REFERRING TO LEICA SMARTNET CONTINUOUSLY OPERATING REFERENCE STATION (CORS) NETWORK, NATIONAL GEODETIC SURVEY MONUMENT: CORS STATION "NYCI, NYBR, NYVH".
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REFERENCES

1. LOT 500 BLOCK 4905 - NO VESTING DEED PROVIDED.
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3. FINAL SECTION MAP NO. 34, OFFICE OF THE PRESIDENT OF THE BOROUGH OF BRONX TOPOGRAPHICAL BUREAU MAP OF THE BOROUGH OF BRONX CITY OF NEW YORK AMENDED AND CORRECTED TO MARCH 11, 1929 UPDATED DATE 9-04, 1992.
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8. SEWER: NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION SEWER MAPPING.
9. ELECTRIC: CONSOLIDATED EDISON COMPANY OF NEW YORK INC. - BROOKLYN-QUEENS CONDUIT AND DUCT OCCUPANCY; LOW TENSION MAINS AND SERVICE PLATE No. x36w & x37w.
10. CABLE: BRONX OPTIMUM MAP NO. 1025-260B.

GRAPHIC SCALE
1 inch=10 feet
(10 5 0 10 20 30)

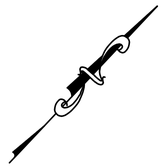
NO.	DATE	ISSUED FOR	BY

NYC Environmental Protection
CITY OF NEW YORK
ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis

NYC Parks
CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

SEAL: STATE OF NEW YORK — RONALD STEPHEN MONCRIEF, JR. — LICENSED LAND SURVEYOR — 049819

PROJECT TITLE: EDENWALD PLAYGROUND
DRAWING TITLE: TOPOGRAPHIC & BOUNDARY SURVEY
DESIGNED BY: NA
DRAWN BY: C.LANE
CHECKED BY: B.WYNESS
B-SCAN
SCALE: 1"=10'
DRAWING NO.
CONTRACT NO.
DATE: 6-15-2026
BLOCK
LOT
Sheet 5 of 9



MATCHLINE - SHEET 5 OF 9

MATCHLINE - SHEET 2 OF 9

MATCHLINE - SHEET 7 OF 9

BLOCK 4905
500
N/F (DEPARTMENT OF EDUCATION)
NO DEED PROVIDED
IN (ACRIS)
RECORD MAP SECTION 34 PROVIDED
IN (ACRIS)
BRONX ELEMENTARY SCHOOL #112
4 STORY BRICK BUILDING
1925 SCHIEFFELIN AVENUE

SCHIEFFELIN AVENUE
(80'-WIDE R.O.W. NYC PLANNING STREET MAP)
(50'-WIDE ROADWAY)
ASPH. PVMT.

PNT No. 4
N: 261590.410
E: 1027398.900
Z: 119.970'
TRV4

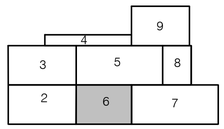
N 46° 32' 51" E 455.00'

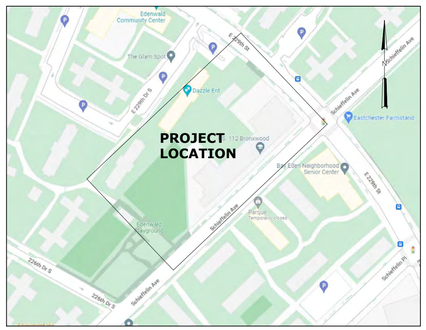
3" MTL
STEPS
FF 126.44
125.50
125.55
125.36
125.38
125.42

FF 121.90
CANOPY
CONC. STEP
4' IRON FENCE ON CONC. WALL
ENCLOSED STRUCTURE
CONCRETE
GRASS
PL
RIM 119.28
METAL DOOR
VENT
INLET
GR. 115.80
INACCESSIBLE
BASEMENT AREA
T.W.120.20
B.W.116.10
B.W.116.11
B.W.119.40
T.W.120.20

PL (DEPARTMENT OF EDUCATION)
CONC. SIDEWALK
DRIP LINE (TYP.)
BUSHES
TREE PIT
CONCRETE WALK
INLET
GR. 120.41
INV. 117.41
B.C.122.00
T.C.122.32
B.C.121.12
T.C.121.46
B.C.120.81
T.C.121.37
B.C.120.23
T.C.120.67
B.C.119.62
T.C.120.03
B.C.118.86
T.C.119.24
B.C.118.11
T.C.118.46
B.C.117.26
T.C.117.56
SFC
GAS(REF.6)
CABLE (REF. 10)

FLOW
12" STM. SEWER (REF. 8)
RIM 121.49
INV. A 116.48
INV. B 107.89
INV. C 116.64
INV. D 107.84
CIRC 1952 RCP 30" SEWER(REF 8)
12" 1952 LCP WATER(REF. 7)
62 RCP 30" SEWER(REF 8)
2018 48"C GAS(REF. 6)
2-4" D.P., 173' ELEC. (REF. 9)
6" PE.2013 4'C GAS (REF. 6)
8" PE.2011 GAS (REF. 6)
8" PE.2013
T.C.123.14
B.C.122.73
T.C.121.93
B.C.121.57
T.C.120.97
B.C.120.57
3"-52'
INLET
GR. 120.63
8" C.I. SLV. 1952 GAS(REF. 6)
2'W
POSS STUB GAS(REF. 6)
87986
24333
24334
2-4" D.P.,140'ELEC.(REF. 9)
ELECTRIC (REF. 9)
ELECTRIC (REF. 9)
4"-55
4"-62
B
C
D
A





GOOGLE MAP NOT TO SCALE

10 5 0 10 20 30
GRAPHIC SCALE
1 inch=10 feet

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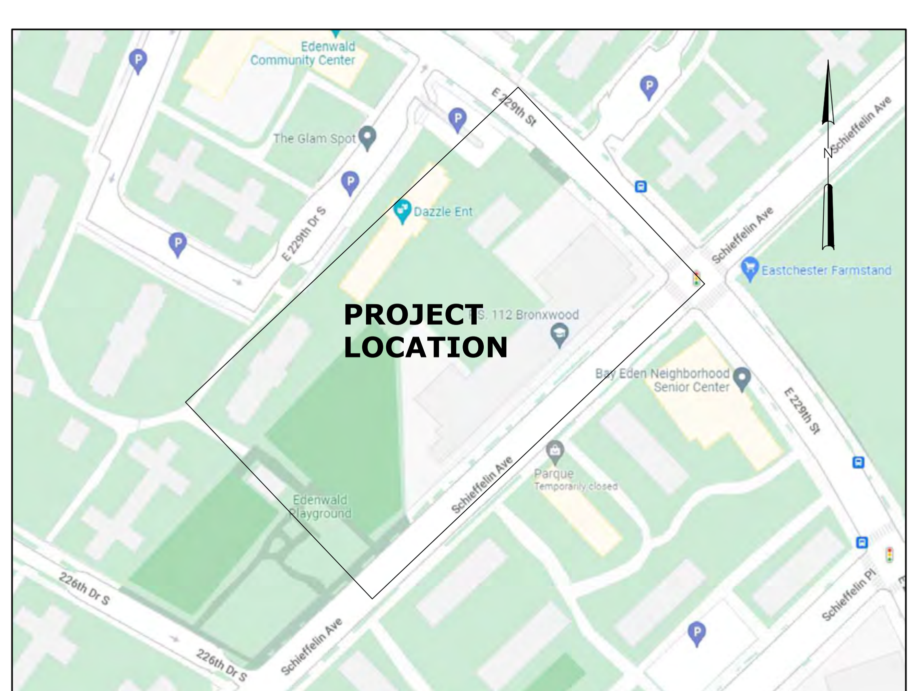
NYC Environmental Protection
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Bureau of Environmental Planning and Analysis

NYC Parks
CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

SEAL: STATE OF NEW YORK · DAVID STEPHEN WYGNESKI · 049813 · LICENSED LAND SURVEYOR

PROJECT TITLE EDENWALD PLAYGROUND
DRAWING TITLE TOPOGRAPHIC & BOUNDARY SURVEY
DESIGNED BY NA | DRAWN BY C.LANE | CHECKED BY B.WYNESS
B-SCAN | SCALE 1"=10' | DRAWING NO. | CONTRACT NO.
BLOCK | DATE 6-15-2026
LOT
Sheet 6 of 9





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SEAL

STATE OF NEW YORK · DONALD STEPHEN MONCRIEF, JR. · 049819 · LICENSED LAND SURVEYOR

BLOCK

LOT

PROJECT TITLE EDENWALD PLAYGROUND

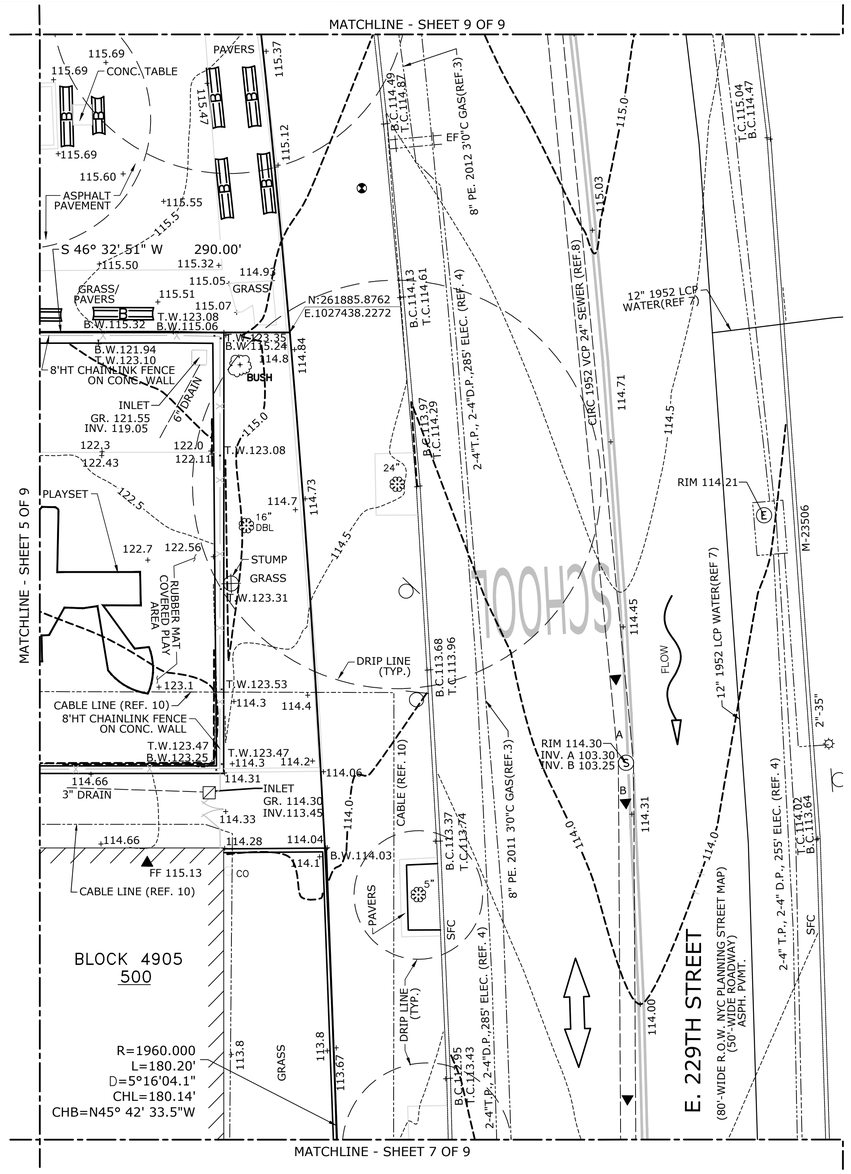
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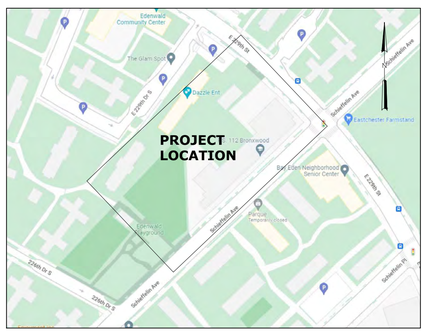
DATE 6-15-2026

Sheet 7 of 9



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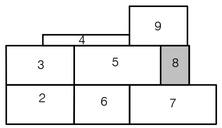
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Bureau of Environmental Planning and Analysis

NYC Parks

CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

SEAL: STATE OF NEW YORK · DAVID STEPHEN WYNESS · 049518 · LICENSED LAND SURVEYOR

PROJECT TITLE: EDENWALD PLAYGROUND

DRAWING TITLE: TOPOGRAPHIC & BOUNDARY SURVEY

DESIGNED BY	DRAWN BY	CHECKED BY
NA	C.LANE	B.WYNESS

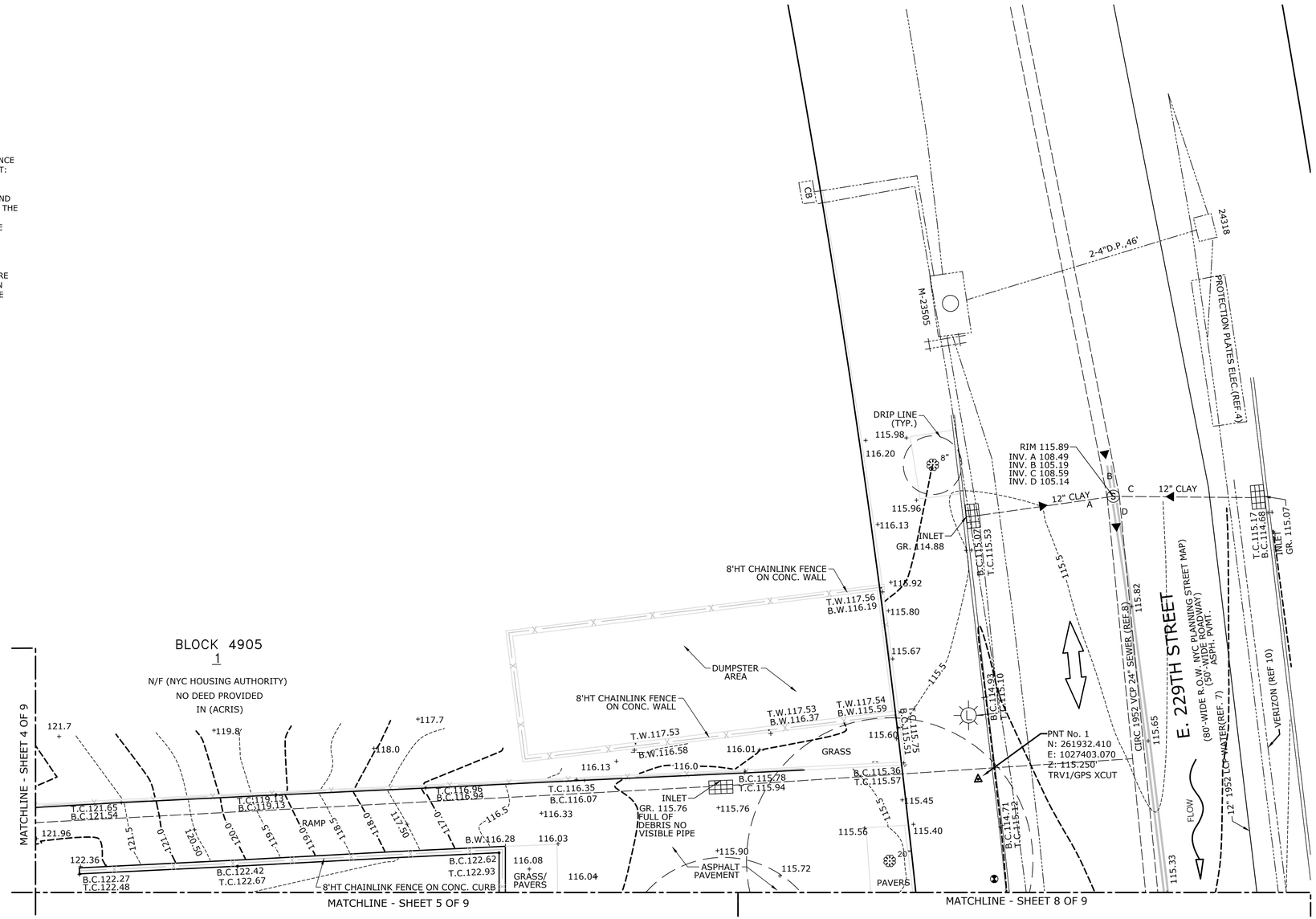
B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1"=10'		
BLOCK	DATE 6-15-2026		
LOT			Sheet 8 of 9

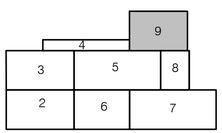
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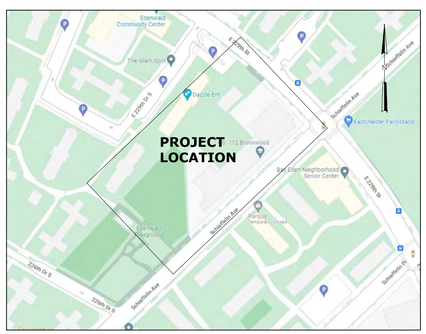
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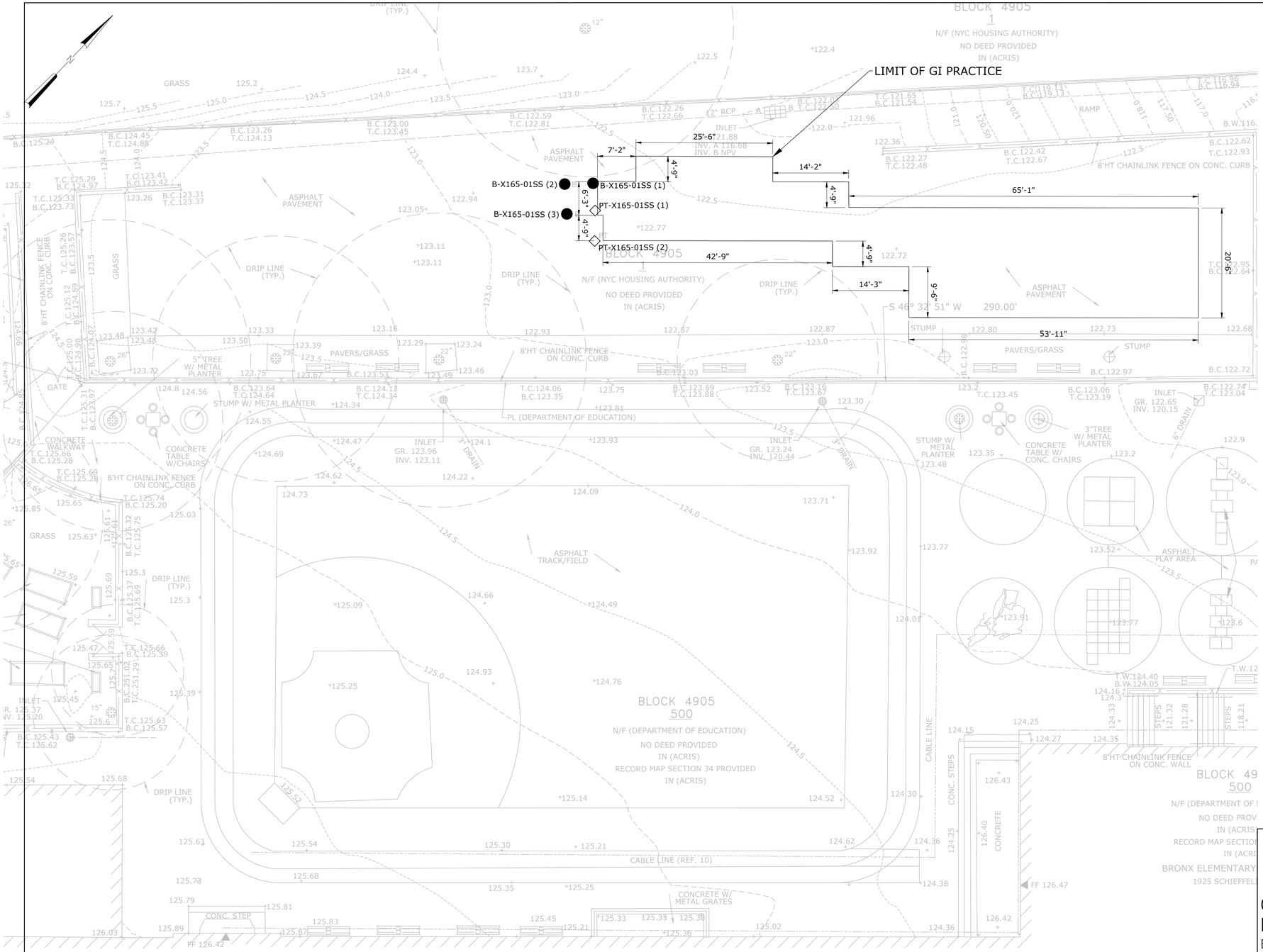
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NA	C.LANE	B.WYNESS

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1"=10'		
	DATE 6-15-2026		Sheet 9 of 9

BLOCK

LOT



LEGEND

BORING LOCATION

PERMEABILITY TEST LOCATION

LIMIT OF GI PRACTICE

B

PT

5 0 5 10

SCALE: 1" = 10'

NO.	DATE	ISSUED FOR	BY

Environmental Protection

CITY OF NEW YORK
ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis

NYC Parks

CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

SEAL

STATE OF NEW YORK · MARK D. STOLD · 096594 · LICENSED PROFESSIONAL ENGINEER

BLOCK 4905

LOT 500

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
EDENWALD PLAYGROUND
SCHIEFFELIN AVENUE BETWEEN 226TH DRIVE S. AND E. 229TH STREET

DRAWING TITLE
BORING PLAN

DESIGNED BY	DRAWN BY		CHECKED BY
CD/SF	CD/SF		WS
B-SCAN	SCALE 1" = 10'	DRAWING NO. B100	CONTRACT NO. GI-CONS-6
	DATE NOV 2026		SHEET No. 12 OF 23 SHEETS

B-X165-01RG(1) BORING LOG

Depth Below Ground Surface (ft)	Soil Description (Field Observations)	SPT Blows per 6"	N Value	Recovery Length (inches)	Remarks
0	Asphalt				
	Bulk Sample 1 (S1): Top 7" of sample: dry, low compaction, brown/grey, sandy SILT (ML); Bottom 17" of sample: low moisture, mod. compaction, brown, fine SAND with traces of silt (SP-SM)	20, 17, 17, 19	34	24	
5	Bulk Sample 2 (S2): Bottom 5" of sample: low moisture, low-mod. compaction, brown, m-f SAND (SW); Top 7" of sample: low moisture, mod.-high compaction, brown, silty SAND (SM)	13, 14, 8, 8	22	12	Sample contains crushed rock
	Bulk Sample 3 (S3): Between 8'-5" and 8'-9" bgs: wet, low-mod. compaction, brown, well-graded SAND with silt (SW-SM); Remaining 11"*: high compaction, brown, SILT with fine sand (ML)	9, 8, 9, 6	17	15	Groundwater table encountered at 8'-4" bgs. *Wet below water table, mod. moisture above water table.
10	Bulk Sample 4 (S4): High moisture, high compaction, grey/brown, sandy SILT (ML)	8, 8, 10, 11	18	11.5	Sample contains traces of mica and few pebbles/gravel
	Bulk Sample 5 (S5): No recovery	50 **	--	--	**50 blows over 1". Refusal at 11'-1" bgs. Water dripped/poured out of spoon.
	Bulk Sample 6 (S6)				
15					

Boring terminated at 15 feet below ground surface unless otherwise instructed.

Inspector's Remarks:
Refusal at 11'-1" bgs. Abandoned location and reattempted in B-X165-01RG(2), per the geotech protocol.

B-X16501-01SS(01)

B-X165-01RG(2) BORING LOG

Depth Below Ground Surface (ft)	Soil Description (Field Observations)	SPT Blows per 6"	N Value	Recovery Length (inches)	Remarks
0	Asphalt				
	Bulk Sample 1 (S1)				
5	Bulk Sample 2 (S2)				
	Bulk Sample 3 (S3)				
	Bulk Sample 4 (S4)				
10	Bulk Sample 5 (S5): No recovery	50 *	--	--	*50 blows over 2". Refusal at 11'-2" bgs.
	Bulk Sample 6 (S6)				
15					

Boring terminated at 15 feet below ground surface unless otherwise instructed.

Inspector's Remarks:
Refusal at 11'-2" bgs. Drilled straight down to 11' bgs; no samples collected between 3'-0" and 11'-0" bgs, as these samples were collected in B-X165-01RG(1). Abandoned location and reattempted in B-X165-01RG(3), per the geotech protocol. Depth to groundwater measured in borehole after refusal encountered, between 0.5-1 hour after drilling commenced.

B-X16501-01SS(02)

B-X165-01RG(3) BORING LOG

Depth Below Ground Surface (ft)	Soil Description (Field Observations)	SPT Blows per 6"	N Value	Recovery Length (inches)	Remarks
0	Asph				
	Bulk Sample 1 (S1)				
5	Bulk Sample 2 (S2)				
	Bulk Sample 3 (S3)				
	Bulk Sample 4 (S4)				
10	Bulk Sample 5 (S5)				Refusal at 10'-6" bgs
	Bulk Sample 6 (S6)				
15					

Boring terminated at 15 feet below ground surface unless otherwise instructed.

Inspector's Remarks:
Refusal at 10'-6" bgs. Attempted to drill straight down to 11' bgs; no samples collected between 3'-0" and 10'-6" bgs, as these samples were collected in B-X165-01RG(1). Abandoned location and soil boring terminated. Depth to groundwater measured in borehole after refusal encountered, approximately 0.5 hours after drilling commenced.

B-X16501-01SS(03)

Location	PERMEABILITY TEST SUMMARY			
	Test Depth (ft)	Average Permeability for In-Situ Testing 1 (inches/hour)	Average Permeability for In-Situ Testing 2 (inches/hour)	Average of Tests 1&2 (inches/hour)
PT-X165-01RG(1)	6'	0.0836	0.1475	0.1156
PT-X165-01RG(2)	3'	0.0054	0.0054	0.0054

PT-X165B01-01SS, PERMEABILITY TEST

Boring ID	LABORATORY SAMPLE RESULTS		
	Depth (ft)	USCS Symbol	% Passing No 200 Sieve
B-X165-01RG(1)	3'-5'	SM	46.2
	5'-7'	SC-SM	36.9
	7'-9'	SC-SM	32.6
	9'-11'	SC-SM	40.1

B-X16501-01SS, LAB SAMPLE RESULTS

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CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

SEAL: STATE OF NEW YORK · ASHLEY D. SMITH · 096594 · LICENSED PROFESSIONAL ENGINEER

BLOCK 4905
LOT 500

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
EDENWALD PLAYGROUND
SCHIEFFELIN AVENUE BETWEEN 226TH DRIVE S. AND E. 229TH STREET

DRAWING TITLE
BORING LOGS

DESIGNED BY	DRAWN BY	CHECKED BY
CD/SF	CD/SF	WS

B-SCAN

SCALE: ----
DATE: NOV 2026
DRAWING NO.: B101
CONTRACT NO.: GI-CONS-6
SHEET No. 13 OF 23 SHEETS

CONTRACTOR SHALL TAKE CARE WHEN ACCESSING SITE. IF CONSTRUCTION VEHICLES/EQUIPMENT DAMAGE AREA, THEN CONTRACTOR SHALL REPAIR AREA AT THE CONTRACTOR'S EXPENSE

CONTRACTOR TO KEEP GATE CLOSED DURING CONSTRUCTION

STAGING AREA

INLET PROTECTION
SEE DETAIL 1, SHEET C500

TEMPORARY CONSTRUCTION FENCE, 11 LF TOTAL

LIMIT OF GI PRACTICE

REMOVE 16 LF OF CURB AS NEEDED FOR SITE ACCESS. INSTALLATION OF 16 LF OF CURB AFTER CONSTRUCTION IS COMPLETED

CONTRACTOR SHALL TAKE CARE WHEN ACCESSING SITE. IF CONSTRUCTION VEHICLES/EQUIPMENT DAMAGE AREA, THEN CONTRACTOR SHALL REPAIR AREA AT THE CONTRACTOR'S EXPENSE

TEMPORARY CONSTRUCTION FENCE, 16 LF TOTAL

STABILIZED CONSTRUCTION ENTRANCE

REMOVE 256 SF OF CHAIN LINK FENCE AS NEEDED FOR SITE ACCESS. INSTALLATION OF 256 SF OF CHAIN LINK FENCE AFTER CONSTRUCTION IS COMPLETED

CONTRACTOR SHALL TAKE CARE TO NOT DAMAGE TREES/TREE PITS WHEN ACCESSING SITE

CONTRACTOR TO REMOVE SIGN FOR SITE ACCESS AND RESET DURING CONSTRUCTION

LEGEND

- TREE DRIPLINE
- TREE CRITICAL ROOT ZONE
- STAGING AREA
- CONSTRUCTION ACCESS/ENTRANCE
- CONSTRUCTION LIMIT LINE — CLL
- TEMPORARY CONSTRUCTION FENCE — CF
- TREE TO BE PROTECTED — ③ 7"
- GREEN INFRASTRUCTURE PRACTICE
- CURB AND FENCE REMOVAL

10 0 10 20
SCALE: 1" = 20'

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STATE OF NEW YORK — LICENSED PROFESSIONAL ENGINEER — 096594

BLOCK 4905
LOT 500

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
EDENWALD PLAYGROUND
SCHIEFFELIN AVENUE BETWEEN 226TH DRIVE S. AND E. 229TH STREET

DRAWING TITLE
TREE PROTECTION, STAGING, AND ACCESS PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
CD/SF/SM	CD/SF	WS

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 20'	C100	GI-CONS-6
	DATE: NOV 2026		SHEET No. 14 OF 23 SHEETS

Tree Protection Schedule (TPS)

TREE #	SPECIES (common name)	DBH (inches)	CTLA CONDITION RATING	ISA CRITICAL ROOTZONE (CRZ) RADIUS (ft.)	TREE REMOVAL	STUMP REMOVAL	TRANSPLANT TREE	PREPARATORY PRUNING ANSI A-300							TREE PROTECTION								DECOMPACT				PREPARATORY FERTILIZE	TREE GROWTH REGULATOR	COMMENTS
								Cleaning	Raising	Reducing	Restoring	Structural	Thinning	Limb Tying	Temporary Wooden Tree Guard	Temporary Wooden Tree Guard For Groves	Temporary Fence Boundary	Protect Existing Tree Roots w/ Woodchips	Protect Ex. Tree Roots w/ Plywood or Mats	Air-Tilling 3 Ft Radius	Air-Tilling 5 Ft Radius	Radial Trench	Vertical Mulch					
101	OAK, SAWTOOTH	6	100%	6.0																									No comment
102	LONDON PLANETREE	6	78%	4.5																									Major water sprouts, minor trunk lean
103	OAK, PIN	17	91%	16.5																									Minor dead branches
104	OAK, PIN	12	91%	11.5																									Minor dead branches
105	UNKNOWN STUMP	30	0%	3.0																									Stump
106	OAK, PIN	22	78%	22.0											X														Minor dead branches, major cankers
107	OAK, PIN	22	31%	21.5				X			X				X														Extreme basal disease, poor crown, major dead branches
108	OAK, PIN	21	72%	21.0				X							X														Major dead branches, major trunk disease
109	OAK, PIN	26	91%	26.0											X														Minor dead branches
110	JAPANESE TREE LILAC	5	72%	5.6																									Extreme trunk cavity
111	TREE OF HEAVEN	25	100%	18.4																									Major included bark
112	TREE OF HEAVEN	15	100%	10.9																									Major included bark, minor water sprouts
113	ARBORVITAE, AMERICAN	3	100%	3.0																									No comment
114	TREE OF HEAVEN	14	63%	10.5																									Extreme basal decay, major trunk damage
115	TREE OF HEAVEN	15	75%	11.3																									Major basal decay
116	TREE OF HEAVEN	13	94%	9.4																									Minor trunk lean
117	ELM, AMERICAN	9	100%	6.8																									Minor water sprouts
118	ELM, AMERICAN	7	100%	5.3																									No comment
119	OAK, PIN	21	100%	20.5																									No comment
120	OAK, PIN	20	100%	20.0																									No comment
121	MAGNOLIA, OTHER	7	100%	6.5																									No comment
122	ELM, OTHER	7	97%	5.3																									Buried root flare, minor wounds, leaf spot
123	OAK, PIN	20	100%	20.0																									No comment
124	ELM, OTHER	9	97%	6.4																									Buried root flare, minor wounds, leaf spot
125	ELM, OTHER	8	97%	5.6																									Buried root flare, minor wounds, leaf spot
126	ELM, OTHER	10	97%	7.5																									Buried root flare, minor wounds, leaf spot
127	ELM, OTHER	9	97%	6.4																									Buried root flare, minor wounds, leaf spot
128	ELM, OTHER	11	97%	7.9																									Buried root flare, minor wounds, leaf spot
129	OAK, PIN	4	100%	3.0																									No comment
130	ELM, OTHER	11	84%	7.9																									Buried root flare, minor wounds, leaf spot
131	HONEYLOCUST	8	100%	5.6																									No comment
132	HAWTHORN, OTHER	11	91%	7.9																									
133	LONDON PLANETREE	6	100%	4.5																									
134	LONDON PLANETREE	6	100%	4.5																									
135	LONDON PLANETREE	5	81%	3.4																									
136	OAK, PIN	23	100%	23.0																									
137	TREE OF HEAVEN	19	84%	14.3																									

Tree Protection Schedule (TPS)

TREE #	SPECIES (common name)	DBH (inches)	CTLA CONDITION RATING	ISA CRITICAL ROOTZONE (CRZ) RADIUS (ft.)	TREE REMOVAL	STUMP REMOVAL	TRANSPLANT TREE	PREPARATORY PRUNING ANSI A-300							TREE PROTECTION								DECOMPACT				PREPARATORY FERTILIZE	TREE GROWTH REGULATOR	COMMENTS
								Cleaning	Raising	Reducing	Restoring	Structural	Thinning	Limb Tying	Temporary Wooden Tree Guard	Temporary Wooden Tree Guard For Groves	Temporary Fence Boundary	Protect Existing Tree Roots w/ Woodchips	Protect Ex. Tree Roots w/ Plywood or Mats	Air-Tilling 3 Ft Radius	Air-Tilling 5 Ft Radius	Radial Trench	Vertical Mulch					
138	HICKORY, OTHER	4	88%	4.4																									
139	SHRUB	4	84%	5.0																									
140	JAPANESE TREE LILAC	3	75%	3.0																									
141	ELM, AMERICAN	7	94%	5.3																									
142	UNKNOWN	12	0%	3.0																									
143	UNKNOWN	22	0%	3.0																									
144	UNKNOWN	28	0%	3.0																									
145	UNKNOWN	24	0%	3.0																									
146	UNKNOWN	30	0%	3.0																									
147	UNKNOWN	10	0%	3.0																									
148	UNKNOWN	18	0%	3.0											X														
149	UNKNOWN	6	0%	3.0											X														
150	UNKNOWN	16	0%	3.0											X														
151	UNKNOWN	8	0%	3.0											X														
152	UNKNOWN	15	0%	3.0											X														
153	UNKNOWN	6	0%	3.0											X														Minor Trunk damage, minor dead branches
154	UNKNOWN	28	0%	3.0											X														
155	UNKNOWN	8	0%	3.0																									
156	UNKNOWN	8	0%	3.0																									
157	UNKNOWN	10	0%	3.0																									
158	UNKNOWN	24	0%	3.0																									
159	UNKNOWN	24	0%	3.0																									
160	UNKNOWN	20	0%	3.0																									
161	UNKNOWN	8	0%	3.0																									
162	UNKNOWN	8	0%	3.0																									

NOTE:FOR TREES 142 AND BEYOND, ARBORIST DID NOT PROVIDE TREE SPECIES, CRZ, SRZ, AND OTHER INFORMATION. SINCE THESE TREES ARE NOT NEAR THE GI PRACTICE AREA, THIS INFORMATION IS NOT NEEDED.

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Bureau of Environmental Planning and Analysis

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Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

SEAL

STATE OF NEW YORK — ASHLEY D. — 096594 — LICENSED PROFESSIONAL ENGINEER

BLOCK 4905

LOT 500

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
EDENWALD PLAYGROUND
SCHIEFFELIN AVENUE BETWEEN 226TH DRIVE S. AND E. 229TH STREET

DRAWING TITLE
TREE PROTECTION SCEHDULE

DESIGNED BY	DRAWN BY	CHECKED BY
CD/SF	CD/SF	WS

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	----	C101	GI-CONS-6

DATE
NOV 2026

SHEET No. 15 OF 23 SHEETS

PAVEMENT REMOVAL
SAWCUT 506 LF
8,170 SF TOTAL

FULL EXCAVATION LIMIT
2,298 SF TOTAL

INLET PROTECTION
SEE DETAIL 1,
SHEET C500

TEMPORARY CONSTRUCTION
FENCE, 11 LF TOTAL

REMOVE 16 LF OF CURB AS NEEDED FOR SITE ACCESS. INSTALLATION OF 16 LF OF CURB AFTER CONSTRUCTION IS COMPLETED

TEMPORARY CONSTRUCTION FENCE, 16 LF TOTAL

REMOVE 256 SF OF CHAIN LINK FENCE AS NEEDED FOR SITE ACCESS. INSTALLATION OF 256 SF OF CHAIN LINK FENCE AFTER CONSTRUCTION IS COMPLETED

LEGEND

- SAWCUT LIMIT
- TEMPORARY CONSTRUCTION FENCE — CF —
- PIPE REMOVAL
- CONSTRUCTION LIMIT LINE — CLL —
- FULL DEPTH PAVEMENT REMOVAL
- FULL EXCAVATION LIMIT
- CURB AND FENCE REMOVAL

CONSTRUCTION SEQUENCING:

1. INSTALL TEMPORARY CONSTRUCTION FENCE (SEE DETAIL 2, SHEET C500)
2. INLET DRAIN PROTECTION (SEE DETAIL 1, SHEET C500) SHALL BE USED ON ALL INLET DRAINS ADJACENT TO AND DOWNSTREAM OF CONSTRUCTION AREA.
3. SHEETING AND BRACING SHALL BE INSTALLED FOR ALL EXCAVATIONS DEEPER THAN 5 FEET.
4. CONSTRUCTION FENCE SHOWN IS APPROXIMATE OUTER LIMITS. FENCED AREA SHALL BE REDUCED IF AN AREA IS COMPLETED TO ALLOW PEDESTRIAN ACCESS.
5. EXCAVATION AND INSTALLATION OF GREEN INFRASTRUCTURE PRACTICES SHALL BE PERFORMED, ALONG WITH ALL ASSOCIATED APPURTENANCES. HAND/PNEUMATIC EXCAVATION SHALL BE PERFORMED IN AREAS WHERE PAVEMENT NEEDS TO BE REMOVED WITHIN THE CRITICAL ROOT ZONES OF TREES.
6. PAVING IN THE WORK AREA SHALL BE RESTORED. PAINT MARKINGS IN WORK AREAS SHALL BE REPLACED IN KIND.
7. EROSION AND CONTROL MEASURES AND CONSTRUCTION FENCE SHALL BE REMOVED.
8. EXISTING UNDERGROUND SITE DRAINAGE AND SEWER PIPES SHALL BE CLEANED OUT UPON COMPLETION OF THE CONTRACT WORK.

10 0 10 20
SCALE: 1" = 20'

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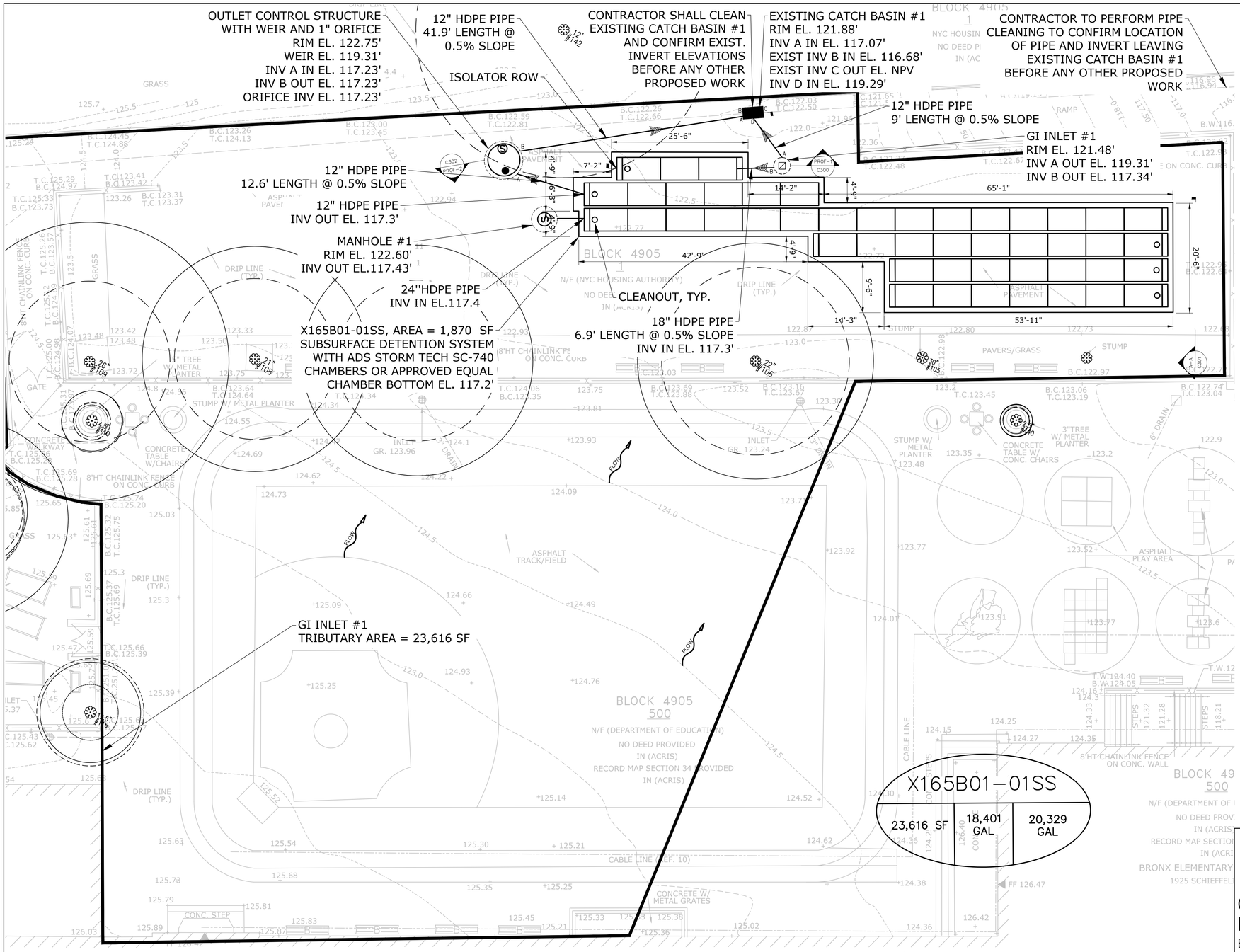
STATE OF NEW YORK · LICENSED PROFESSIONAL ENGINEER · 096594

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
EDENWALD PLAYGROUND
SCHIEFFELIN AVENUE BETWEEN 226TH DRIVE S. AND E. 229TH STREET

DRAWING TITLE
REMOVAL AND DEMOLITION PLAN

DESIGNED BY	DRAWN BY		CHECKED BY
CD/SF	CD/SF		WS
B-SCAN	SCALE 1" = 20'	DRAWING NO. C102	CONTRACT NO. GI-CONS-6
	DATE NOV 2026		SHEET No. 16 OF 23 SHEETS

BLOCK 4905
LOT 500



LEGEND

- GREEN INFRASTRUCTURE PRACTICE
- PROPOSED STORM DRAIN
- DRAINAGE AREA
- CLEANOUT
- FLOW DIRECTION
- SOLID CATCH BASIN COVER
- OUTLET CONTROL STRUCTURE
- GI INLET
- MANHOLE
- GREEN INFRASTRUCTURE CHARACTERISTICS

GI NAME

TRIBUTARY AREA	VOLUME OF 1.25" STORM	CAPACITY MANAGED

NOTES:
1- CONTRACTOR SHALL CLEAN EXISTING CATCH BASIN #1 AND CONFIRM EXIST. INVERT ELEVATIONS BEFORE ANY OTHER PROPOSED WORK

2- CONTRACTOR TO PERFORM PIPE CLEANING TO CONFIRM LOCATION OF PIPE AND INVERT LEAVING EXISTING CATCH BASIN #1

5 0 5 10
SCALE: 1" = 10'

GI ID	GI Asset Data					Stormwater Storage Calculations				Total Stormwater Managed (Infiltration + Storage)				
							Stone Subbase							
	Managed Impervious Tributary Area	Volume 1.25" Rainfall on Impervious Area	GI Footprint Surface Area	GI Perimeter	Permeability Coefficient	Stormwater chambers, pipes, tanks, etc. volume	Stone Depth	Stone Voids	Stormwater Captured by Stone Layer	Estimated Total Infiltration Volume	Estimated Total Storage Volume	% Impervious Surface Managed	Calculated Volume of Rainfall Captured	Calculated Volume of Rainfall Captured
	sf	cf	sf	ft	in/hr	cf	ft	%	cf	cf	cf	%	cf	gal
X165-01SS	23,616	2,460.0	1,870	178	0.12	2023.82	2.01	40	694.0	0.0	2,717.8	110%	2,717.8	20,328.9

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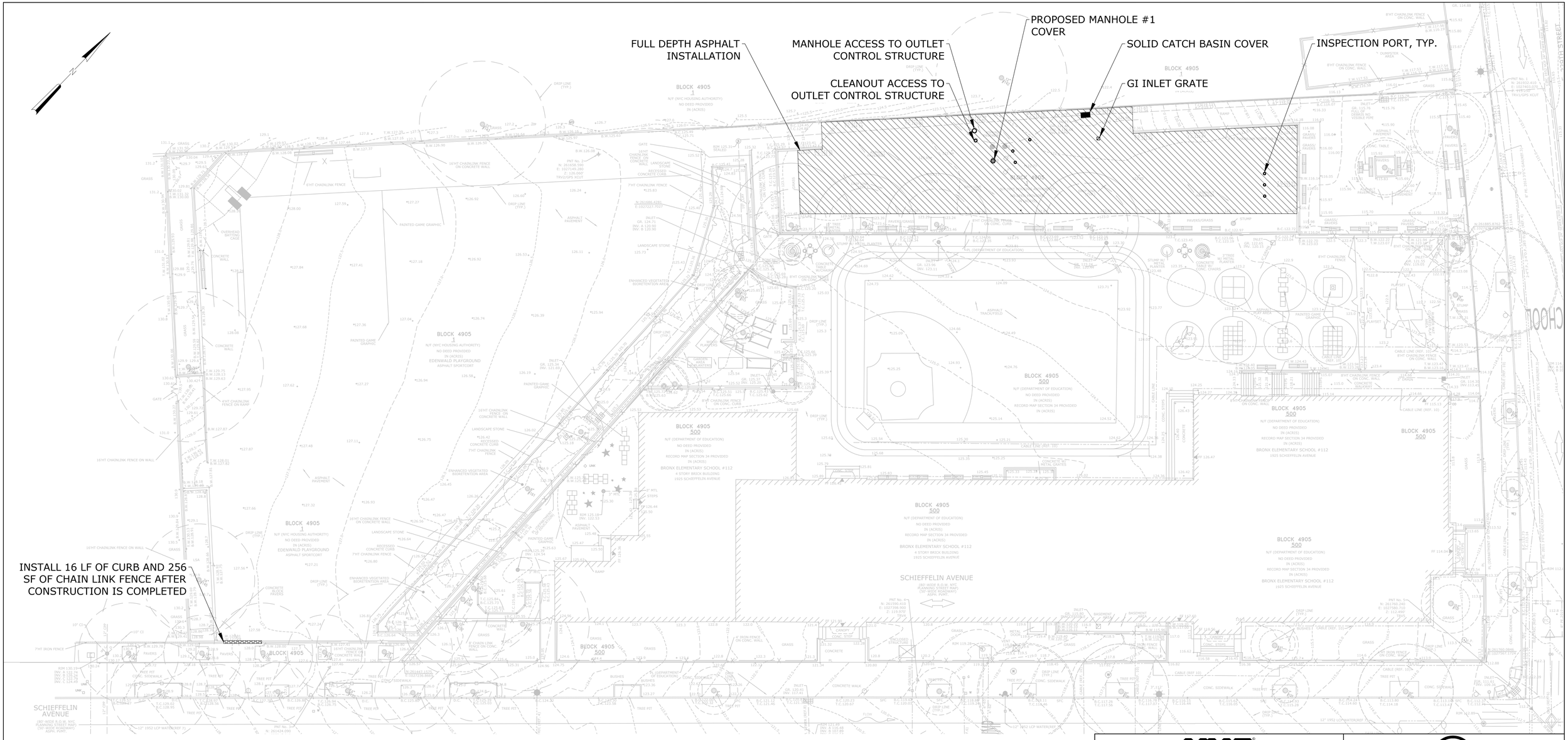
STATE OF NEW YORK
ANDREW J. ASHTON
096594
LICENSED PROFESSIONAL ENGINEER

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
EDENWALD PLAYGROUND
SCHIEFFELIN AVENUE BETWEEN 226TH DRIVE S. AND E. 229TH STREET

DRAWING TITLE
PROPOSED GREEN INFRASTRUCTURE LAYOUT PLAN

DESIGNED BY	DRAWN BY		CHECKED BY
CD/SF	CD/SF		WS
B-SCAN	SCALE: 1" = 10'	DRAWING NO.: C200	CONTRACT NO.: GI-CONS-6
	DATE: NOV 2026		SHEET No. 17 OF 23 SHEETS

BLOCK 4905
LOT 500



LEGEND

- CLEANOUT
- SOLID CATCH BASIN COVER
- GI INLET GRATE
- FULL DEPTH ASPHALT INSTALLATION
- CURB AND FENCE INSTALLATION

10 0 10 20
SCALE: 1" = 20'

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BLOCK 4905
LOT 500

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
EDENWALD PLAYGROUND
SCHIEFFELIN AVENUE BETWEEN 226TH DRIVE S. AND E. 229TH STREET

DRAWING TITLE
MATERIALS PLAN

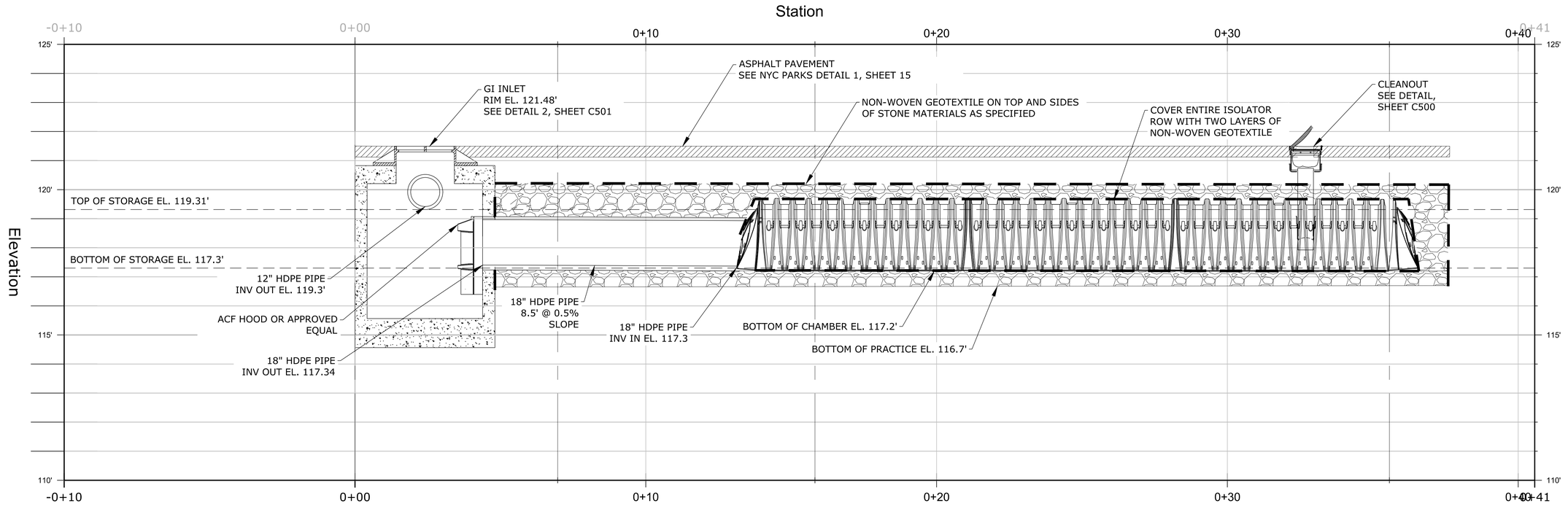
DESIGNED BY	DRAWN BY	CHECKED BY
CD/SF	CD/SF	WS

B-SCAN

SCALE	DRAWING NO.	CONTRACT NO.
1" = 20'	C201	GI-CONS-6

DATE
NOV 2026

SHEET No. 18 OF 23 SHEETS



PROFILE 1: GI INLET CONNECTION TO ISOLATOR ROW
Scale: 1" = 2'

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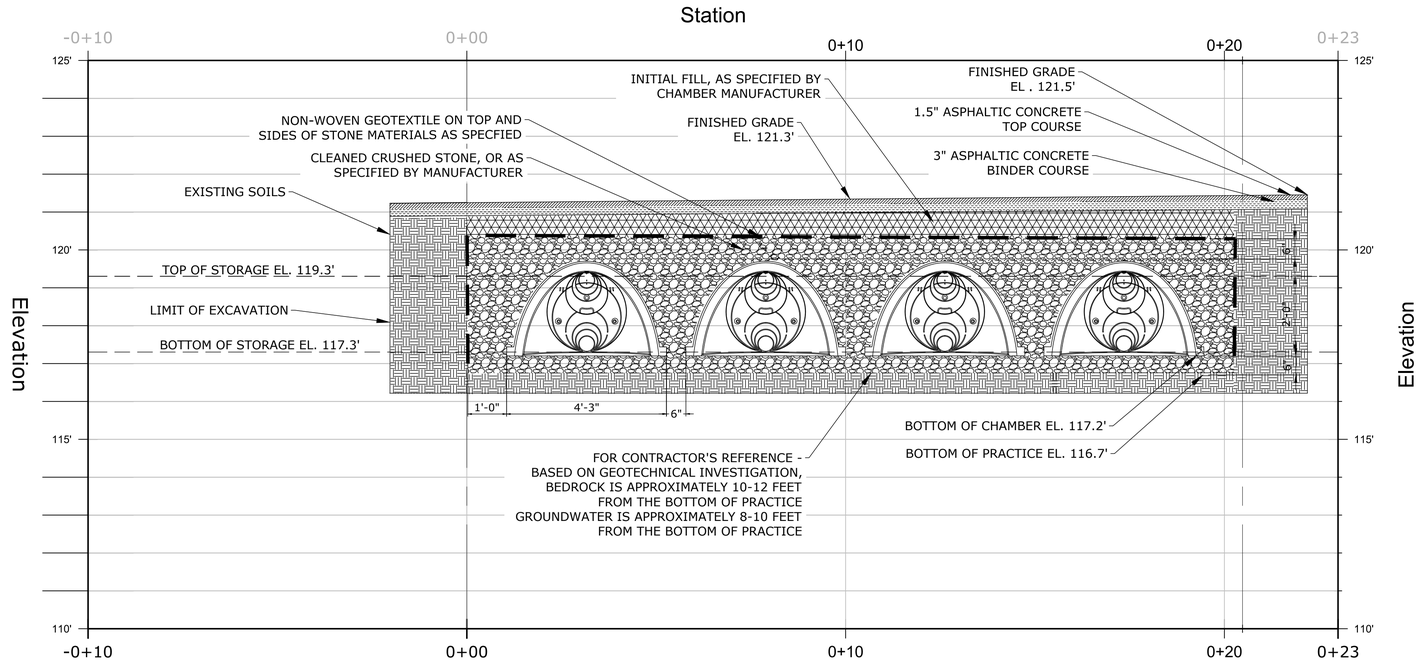
SEAL: STATE OF NEW YORK — LICENSED PROFESSIONAL ENGINEER — 096594

BLOCK 4905
LOT 500

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
EDENWALD PLAYGROUND
ON SCHIEFFELIN AVENUE BETWEEN 226TH DR. S AND E. 229TH ST.

DRAWING TITLE
SECTIONS AND PROFILES - 1

DESIGNED BY	DRAWN BY		CHECKED BY
CD/SF	CD/SF		WS
B-SCAN	SCALE: 1" = 2'	DRAWING NO.: C300	CONTRACT NO.: GI-CONS-6
	DATE: NOV 2026		SHEET No. 21 OF 25 SHEETS



CROSS SECTION A-A
Scale: 1" = 2'

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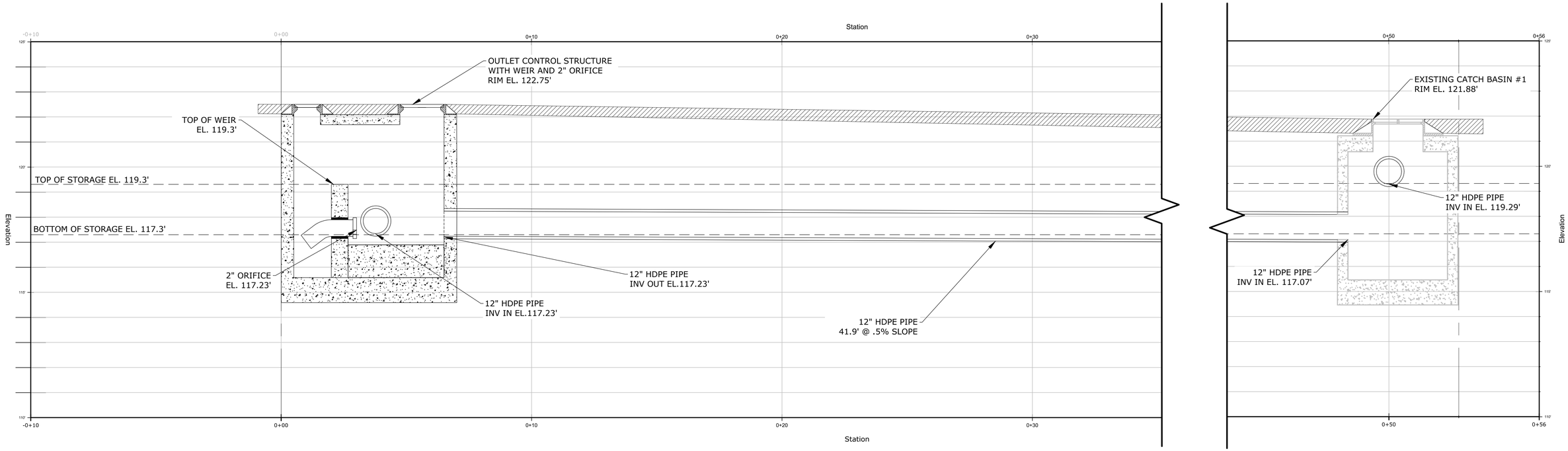
BLOCK 4905
LOT 500

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
####################
ON SCHIEFFELIN AVENUE BETWEEN 226TH DR. S AND E. 229TH ST.

DRAWING TITLE
SECTIONS AND PROFILES - 2

DESIGNED BY	DRAWN BY	CHECKED BY
##/SF	##/SF	##

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 2'	301	GI-CONS-6
	DATE NOV 2026		SHEET No. 22 OF 25 SHEETS



PROFILE 2: OUTLET CONTROL STRUCTURE TO EXISTING CATCH BASIN
SCALE: 1" = 2'

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PARKS & RECREATION
Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

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STATE OF NEW YORK
JASON DUNN
096594
LICENSED PROFESSIONAL ENGINEER

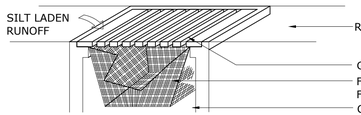
BLOCK
4905

LOT
500

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
EDENWALD PLAYGROUND
ON SCHIEFFELIN AVENUE BETWEEN 226TH DR. S AND E. 229TH ST.

DRAWING TITLE
SECTIONS AND PROFILES - 3

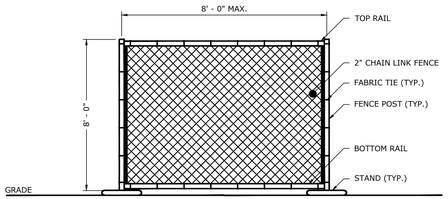
DESIGNED BY	DRAWN BY		CHECKED BY
CD/SF	CD/SF		WS
B-SCAN	SCALE: 1" = 2'	DRAWING NO. C302	CONTRACT NO. GI-CONS-6
	DATE: NOV 2026		SHEET No. 23 OF 25 SHEETS



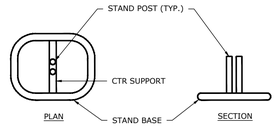
NOTE:
1. IN PAVED AREAS, USE FILTER BAG FOR INLET PROTECTION (NO MESH, BOX STONE REQUIRED).
2. FILTER BAG SHALL BE MANUFACTURED FROM A WOVEN POLYPROPYLENE GEOTEXTILE AND SEWN BY A DOUBLE NEEDLE MACHINE USING A HIGH STRENGTH NYLON THREAD.
3. BAG SHALL BE SILTSACK® BY ACF ENVIRONMENTAL, OR EQUAL, AS APPROVED BY THE ENGINEER.

MAINTENANCE REQUIREMENTS:
1. INSPECT GRATE AND BAG ON A WEEKLY BASIS AND AFTER EACH RAINFALL EVENT PRODUCING $\frac{1}{2}$ INCH OR MORE OR RAIN. ANY DEBRIS OR SEDIMENT VISIBLE SHALL BE REMOVED IMMEDIATELY.
2. DAMAGE TO THE BAG SHALL BE REPAIRED IMMEDIATELY.
3. WHEN THE RESTRAINT CORD IS NO LONGER VISIBLE, THE BAG IS FULL AND SHOULD BE EMPTIED.
4. USE 1" DIAMETER REBAR TO SLIDE THROUGH THE LIFTING LOOPS/POCKETS ON EACH SIDE OF THE BAG TO FACILITATE LIFTING.
5. REMOVE SEDIMENT FROM BAG AND DISPOSE OF OFF-SITE IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS.

1 INLET PROTECTION
SCALE:NTS



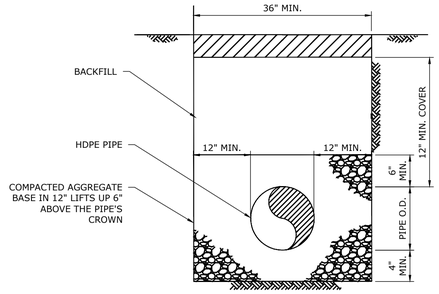
SECTION



STAND DETAIL

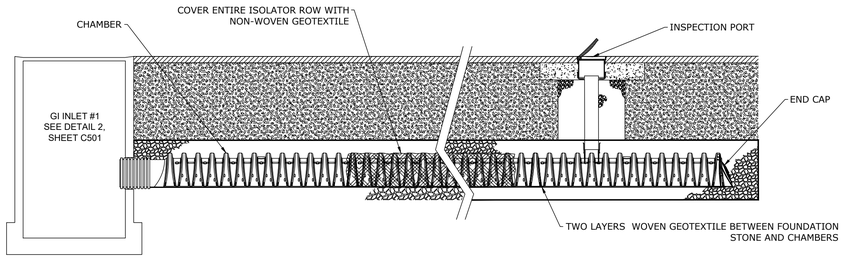
NOTES:
1. CONTRACTOR SHALL PROVIDE, AT A MINIMUM, TEMPORARY FENCE WITH DIMENSIONS AND APPURTENANCES AS SHOWN.
2. ALL OTHER DIMENSIONS, MATERIAL SIZES, MATERIAL TYPES, ACCESSORIES, ETC PER MANUFACTURER.
3. TEMPORARY FENCE SHALL REMAIN IN PLACE UNTIL CONCLUSION OF CONSTRUCTION.
4. SAND BAGS SHALL BE USED FOR POST SUPPORT IN ACCORDANCE WITH SPECIFICATIONS.

2 TEMPORARY CONSTRUCTION FENCE
SCALE:NTS

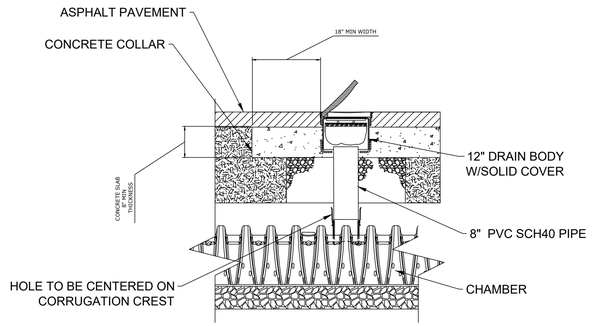


NOTE:
1. TRENCHING WITHIN EXISTING ASPHALT PAVEMENT REQUIRES FULL DEPTH ASPHALT PAVEMENT REPLACEMENT AND RESTORATION

3 TRENCH RESTORATION
SCALE:NTS



4 ISOLATOR ROW
SCALE:NTS



5 INSPECTION PORT
SCALE:NTS

Environmental Protection
CITY OF NEW YORK
ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis

NYC Parks
CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

SEAL
STATE OF NEW YORK — DANIEL SCHWARZ — 096594 — LICENSED PROFESSIONAL ENGINEER

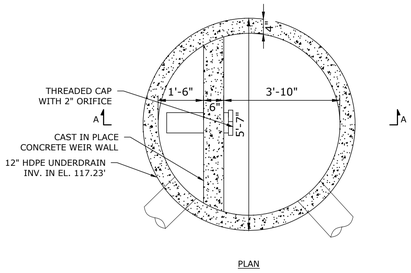
BLOCK 4905
LOT 500

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
EDENWALD PLAYGROUND
ON SCHIEFFELIN AVENUE BETWEEN 226TH DR. S AND E. 229TH ST.

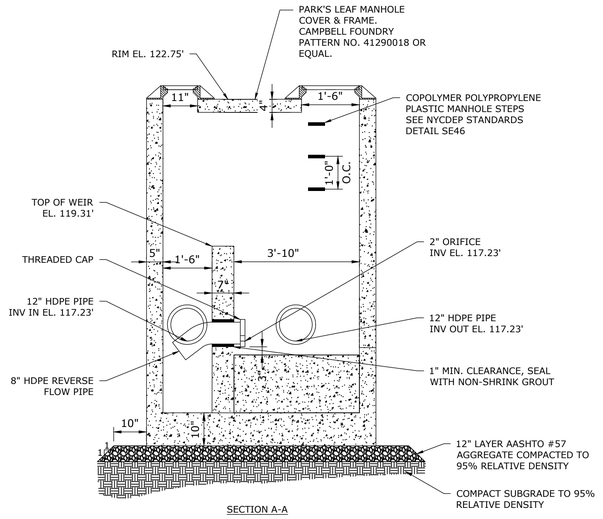
DRAWING TITLE
DETAILS - 1

DESIGNED BY	DRAWN BY	CHECKED BY
CD/SF	CD/SF	WS

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	----	C500	GI-CONS-6
	DATE: NOV 2026		SHEET No. 24 OF 25 SHEETS

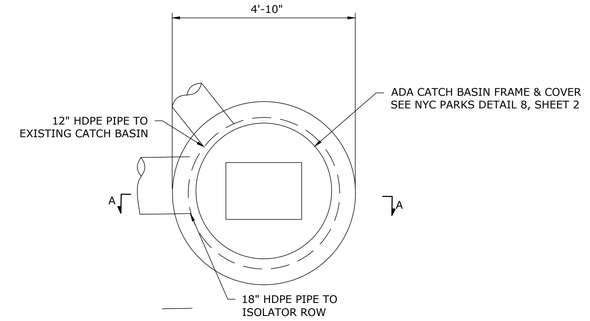


PLAN

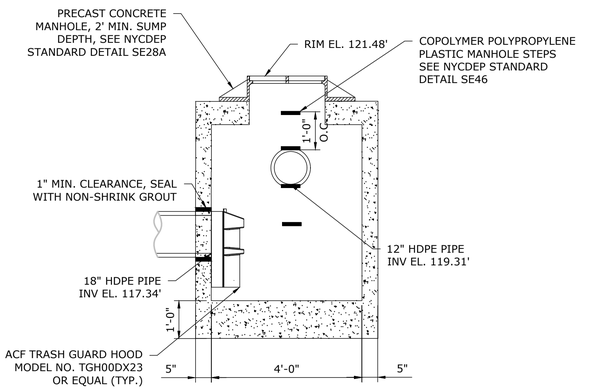


SECTION A-A

1 OUTLET CONTROL STRUCTURE
SCALE: 1" = 2'



PLAN



SECTION A-A

2 GI INLET
SCALE: 1" = 2'

NYC Environmental Protection

CITY OF NEW YORK
ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis

NYC Parks

CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

SEAL

STATE OF NEW YORK
SUSAN SCHELD
096594
LICENSED PROFESSIONAL ENGINEER

BLOCK
4905

LOT
500

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
EDENWALD PLAYGROUND
ON SCHIEFFELIN AVENUE BETWEEN 226TH DR. S AND E. 229TH ST.

DRAWING TITLE
DETAILS - 2

DESIGNED BY	DRAWN BY		CHECKED BY
CD/SF	CD/SF		WS
B-SCAN	SCALE: 1" = 2'	DRAWING NO.: C501	CONTRACT NO.: GI-CONS-6
	DATE: NOV 2026		SHEET No. 25 OF 25 SHEETS

NEW YORK CITY ENVIRONMENTAL PROTECTION
BUREAU OF ENVIRONMENTAL PLANNING & ANALYSIS

NYC Environmental Protection

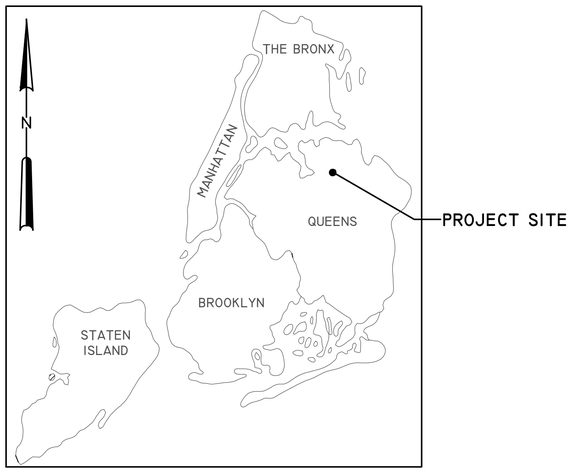
NYC Parks

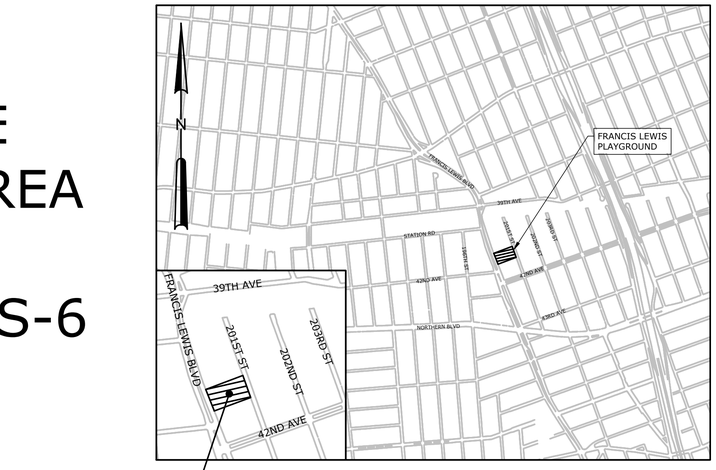
ON-SITE GREEN INFRASTRUCTURE
FLUSHING CREEK CSO TRIBUTARY AREA
OUTFALL TI-010
DEP CAPITAL CONTRACT NO. GI-CONS-6

Q381 FRANCIS LEWIS PLAYGROUND
BBL# 4062030001

QUEENS, NY

BID SET
NOV 2026





LOCATION PLAN

SHEET LIST	
Sheet Number	Sheet Title
G001	COVER SHEET
G002	GENERAL NOTES
G003	LEGEND AND ABBREVIATIONS
S001	TOPOGRAPHIC SURVEY
S002	TOPOGRAPHIC SURVEY
S003	TOPOGRAPHIC SURVEY
S004	TOPOGRAPHIC SURVEY
S005	TOPOGRAPHIC SURVEY
S006	TOPOGRAPHIC SURVEY
B100	BORING PLAN
B101	BORING LOG
C101	TREE PROTECTION, STAGING AND ACCESS PLAN
C102	TREE PROTECTION SCHEDULE
C103	REMOVALS AND DEMOLITION PLAN
C200	PROPOSED GREEN INFRASTRUCTURE LAYOUT PLAN
C201	MATERIALS PLAN
C202	GRADING PLAN
C300	SECTIONS AND PROFILES - 1
C301	SECTIONS AND PROFILES - 2
C500	SITE CIVIL AND STORMCHAMBER DETAILS
C501	SITE CIVIL AND STORMCHAMBER DETAILS

John McLaughlin
Digitally signed by John McLaughlin
Date: 2026.11.03 09:29:35 -05'00'

JOHN MCLAUGHLIN
MANAGING DIRECTOR
OFFICE OF ECOSYSTEM SERVICES, GREEN INFRASTRUCTURE AND RESEARCH
BUREAU OF ENVIRONMENTAL PLANNING & ANALYSIS, NYCDEP

Lisa F. Garcia
Digitally signed by Lisa F. Garcia
Date: 2026.11.02 15:37:41 -05'00'

LISA F. GARCIA
COMMISSIONER
NYCDEP

GENERAL NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK AND VERIFY ALL SITE CONDITIONS, BOTH ABOVE AND BELOW THE SURFACE, PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN INFORMATION SHOWN ON THE DRAWINGS AND ACTUAL FIELD CONDITIONS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING, PRIOR TO THE COMMENCEMENT OF WORK.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS.
3. WORK PERFORMED UNDER THIS CONTRACT SHALL COMPLY WITH APPLICABLE FEDERAL, STATE, AND LOCAL SAFETY AND OCCUPATIONAL HEALTH LAWS AND REGULATIONS. WHERE THE REQUIREMENTS OF THE SPECIFICATIONS, APPLICABLE LAWS, CRITERIA, ORDINANCES, REGULATIONS, AND REFERENCED DOCUMENTS VARY, THE OWNER SHALL BE CONTACTED AND WILL PROVIDE AN INTERPRETATION FOR THE CONTRACTOR.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THEIR WORK AND NEWLY INSTALLED WORK, AND PROVIDE APPROPRIATE BARRIERS AND SAFETY GUARD RAILS, AS REQUIRED.
5. ALL STREETS, ROADWAYS, AND ACCESS AREAS SHALL REMAIN UNOBSTRUCTED DURING CONSTRUCTION. THE NEED TO TEMPORARILY BLOCK OR CLOSE OFF THESE AREAS SHALL BE COORDINATED WITH THE ENGINEER AND NYC DEP. ADDITIONAL COORDINATION AND PERMITTING WITH NYC DOT AND/OR NYPD MAY BE REQUIRED AND IS THE RESPONSIBILITY OF THE CONTRACTOR, PER GENERAL NOTE 9.
6. ALL AREAS OF THE SITE IMPACTED BY TEMPORARY FACILITIES SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER, BY THE CONTRACTOR, AS DETERMINED BY THE ENGINEER.
7. THE CONTRACTOR SHALL MAINTAIN, AT THE JOB SITE, ONE SET OF FULL-SIZE CONTRACT DRAWINGS MARKED TO SHOW ANY DEVIATIONS THAT HAVE BEEN MADE FROM THE CONTRACT DRAWINGS, INCLUDING BURIED OR CONCEALED CONSTRUCTION AND UTILITY FEATURES REVEALED DURING THE COURSE OF CONSTRUCTION. THESE DRAWINGS SHALL BE AVAILABLE FOR REVIEW BY THE ENGINEER AT ALL TIMES. UPON COMPLETION OF THE INSTALLATION OF NEW WORK THE CONTRACTOR SHALL TURN OVER TO OWNER AND ENGINEER ONE (1) SET OF REPRODUCIBLE AS-BUILT DRAWINGS AND ONE (1) SET OF PRINTS OF AS-BUILT DRAWINGS INCLUDING ALL APPROVED FIELD CHANGES AND DESIGN DEVIATIONS PRIOR TO REQUEST FOR FINAL PAYMENT.
8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE NYC DPR DETAILS BEING USED FOR CONSTRUCTION ARE IN THE MOST RECENT VERSION ISSUED.
9. THE CONTRACTOR SHALL FILE PLANS WITH GOVERNING LOCAL AND STATE AUTHORITIES HAVING JURISDICTION AND SHALL SECURE ALL PERMITS AND PAY ALL FEES REQUIRED FOR INSTALLATION OF THEIR WORK, UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR ANY SPECIAL INSPECTIONS REQUIRED, INCLUDING ANY ASSOCIATED COSTS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE APPROPRIATE AGENCIES PRIOR TO COMMENCING WORK.
10. THE CONTRACTOR SHALL INDEMNIFY NYC DEP, THEIR REPRESENTATIVES, AND THE ENGINEER FROM ANY CLAIMS OR SUITS RESULTING FROM NEGLIGENCE ON THE PART OF THE CONTRACTOR FOR FAILING TO EXECUTE THEIR WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
11. WORK SHALL BE PERFORMED BY LICENSED CONTRACTORS AND WORKERS EXPERIENCED IN THE TRADE HAVING JURISDICTION. WORK SHALL BE SUPERVISED AT ALL TIMES.
12. ANY DEVIATION OR CHANGE IN DESIGN SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER. WORK INSTALLED WITHOUT PRIOR APPROVAL OF THE ENGINEER OR NYC DEP OR FOUND TO BE DEFECTIVE OR OF POOR QUALITY SHALL BE REPLACED BY THE CONTRACTOR AT THEIR OWN EXPENSE.
13. ALL CONSTRUCTION WORK SHALL BE CONFINED TO THE CONTRACT LIMIT LINE INDICATED ON THE DRAWINGS.
14. **OPTION 1 (FOR JOP SITES):** ALL WORK SHALL BE PERFORMED DURING NORMAL WORKING HOURS: 9:00 A.M. TO 6:00 P.M. MONDAY THROUGH FRIDAY EXCEPT LEGAL HOLIDAYS OR FOR EMERGENCY REPAIRS, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
OPTION 2 (FOR REGULAR PARK SITES): ALL WORK SHALL BE PERFORMED DURING NORMAL WORKING HOURS: 7:00 A.M. TO 3:00 P.M. MONDAY THROUGH FRIDAY EXCEPT LEGAL HOLIDAYS OR FOR EMERGENCY REPAIRS, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
IF OPTION 1 IS CHOSEN, ADD THE FOLLOWING AS NOTE 15 AND RENUMBER THE SUBSEQUENT NOTES:
15. STATE TESTING OCCURS AT <NAME OF SCHOOL> DURING <DURATION OF TESTING>. NO WORK SHALL OCCUR DURING STATE TESTING UNLESS AUTHORIZED IN BY A SCHOOL REPRESENTATIVE A MINIMUM OF TWO WEEKS IN ADVANCE.WORK AREA SHALL BE LEFT BROOM CLEAN AT THE END OF EACH DAY. DISCARDED AND DEMOLISHED MATERIAL AND RUBBISH SHALL BE REMOVED FROM PREMISES DAILY AND DISPOSED IN A LEGAL AND APPROVED MANNER.
16. ALL WORK SHOWN ON ALL DRAWINGS IS NEW UNLESS OTHERWISE NOTED.
17. THE CONTRACTOR SHALL COORDINATE WITH NYC DEP THE SUPPLY OF TEMPORARY POWER, POTABLE WATER, AND LIGHTING, AS REQUIRED TO PERFORM THE WORK. OBTAINING AND PAYING FOR SUCH TEMPORARY UTILITIES ARE THE CONTRACTOR'S RESPONSIBILITY.
18. STAGING AREA TO BE DESIGNATED PRIOR TO MOBILIZATION AND TO BE APPROVED BY THE ENGINEER AND NYC DEP.
19. CONTRACTOR SHALL COORDINATE AND SCHEDULE CONSTRUCTION ACTIVITIES WITH SITE ACTIVITIES, AS TO NOT INTERFERE WITH NORMAL SITE OPERATION, AND AS REQUIRED TO NOT IMPEDE THE PROGRESS OF RELATED PROJECT WORK.
20. COORDINATION OF ALL WORK UNDER THIS CONTRACT SHALL BE MAINTAINED TO ENSURE THE QUALITY AND TIMELY COMPLETION OF THE WORK.
21. THE CONTRACTOR SHALL PROVIDE TEMPORARY SHEETING AND BRACING IN ALL TRENCHES OR EXCAVATIONS FOR STRUCTURES, WHERE NECESSARY FOR THE PROPER PROTECTION OF PERSONS OR PROPERTY. WHERE THE DEPTH OF EXCAVATION EXCEEDS FIVE (5) FEET, SHEETING AND NECESSARY BRACING MUST BE INSTALLED FOR THE DEPTH EXCEEDING FIVE (5) FEET AND WILL BE PAID FOR UNDER TEMPORARY SHEETING. BENCHED EXCAVATION MAY BE USED TO REDUCE THE AMOUNT OF SHEETING REQUIRED. ALL SHORING WORK SHALL MEET OR EXCEED THE REQUIREMENTS OF THE NEW YORK STATE DEPARTMENT OF LABOR, INDUSTRIAL CODE RULE 23 AND TITLE 29 CODE OF FEDERAL REGULATIONS PART 1926, SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION (OSHA). THE TYPE OF SHEETING AND BRACING SHALL BE SATISFACTORY TO THE ENGINEER AND SUBJECT TO THEIR APPROVAL, BUT THE APPROVAL OF THE ENGINEER OF A METHOD TO BE USED DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY FOR PROTECTION AND SAFETY. WHEN SHEETING IS USED IN TRENCHES OR EXCAVATIONS FOR STRUCTURES OF LESS THAN FIVE (5) FEET IN DEPTH, THE COST OF SUCH SHEETING AND BRACING, UNLESS ORDERED LEFT IN PLACE, SHALL BE INCLUDED IN THE PRICE BID FOR UNCLASSIFIED EXCAVATION, AND PAYMENT WILL BE MADE FOR SUCH EXCAVATION AS SHOWN ON THE DRAWINGS.
22. THE CONTRACTOR SHALL PERFORM ALL CUTTING AND PATCHING REQUIRED TO COMPLETE THE WORK OR TO MAKE ITS PARTS FIT TOGETHER PROPERLY WITHOUT COMPROMISING THE QUALITY OF THE WORK.
23. ADDITIONAL NOTES THAT ARE APPLICABLE TO THIS PROJECT MAY BE FOUND THROUGHOUT THE CONTRACT DRAWINGS.

REMOVAL NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK AND VERIFY ALL SITE CONDITIONS, BOTH ABOVE AND BELOW THE SURFACE, PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN INFORMATION SHOWN ON THE DRAWINGS AND ACTUAL FIELD CONDITIONS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING, PRIOR TO THE COMMENCEMENT OF WORK.
2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS GOVERNING THIS WORK. THE CONTRACTOR SHALL COORDINATE DEMOLITION WITH APPLICABLE AGENCIES, UTILITY COMPANIES, AND/OR SUB-CONTRACTORS.
3. IT IS MANDATORY, AS PER NYS INDUSTRIAL CODE RULE 53, FOR THE CONTRACTOR TO NOTIFY NEW YORK 811, 60 KNICKERBOCKER AVENUE, BOHEMIA NY 11716, TEL. 800.272.4480 PRIOR TO THE START OF WORK. THE ONE-CALL CENTER IS ALWAYS OPEN. THE ONE-CALL CENTER WILL THEN NOTIFY MEMBER FIRMS WITH OPERATIONS IN THE SITE AREA OF THE CONTRACTOR'S PENDING EXCAVATION OPERATIONS. THE CONTRACTOR WILL RECEIVE A NOTIFICATION TICKET FROM THE ONE-CALL CENTER WHICH SHOULD BE PRESENTED TO THE ENGINEER AS PROOF OF THE CALL. THERE IS NO CHARGE FOR THIS SERVICE. THIS PROCESS ENSURES THAT UTILITY SERVICE LINES ARE PROPERLY MARKED PRIOR TO EXCAVATION TO MINIMIZE FACILITY DAMAGE, ON THE JOB INJURIES, AND CONTRACTOR'S LIABILITY. IN ADDITION, ALL UNDERGROUND FACILITY OPERATORS IN THE AREA WHO ARE NOT ONE-CALL MEMBERS SHALL BE NOTIFIED NOT LESS THAN TWO (2) FULL BUSINESS DAYS AND NOT MORE THAN TEN (10) FULL BUSINESS DAYS BEFORE COMMENCING EXCAVATION.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY DAMAGE AND/OR RESTORE ANY INTERRUPTION TO ANY UTILITY SERVICE THAT MAY BE CAUSED BY THE CONTRACTOR'S CONSTRUCTION OR EQUIPMENT, AT THE CONTRACTOR'S EXPENSE, WITH NO ADDITIONAL EXPENSE TO THE CITY OF NEW YORK OR UTILITY COMPANY.
5. THE CONTRACTOR IS TO USE CARE DURING CONSTRUCTION TO AVOID DISTURBING OR DAMAGING ADJACENT ABOVE-GRADE OR SUBGRADE STRUCTURES, FACILITIES, CURBS, PAVEMENTS, AND PERIMETER FENCING. ANY DAMAGE RESULTING FROM THIS WORK WILL BE RESTORED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
6. WHERE NEW CONSTRUCTION ABUTS EXISTING PAVEMENTS, CURBS, OR WALLS, THE EXISTING MATERIALS SHALL BE CLEANLY SAWCUT TO PROVIDE A CLEAN, NEAT MATCH AND A SMOOTH, FLUSH TRANSITION, AS DIRECTED BY THE ENGINEER. ALL SAWCUTTING SHALL BE DONE TO NEAT, STRAIGHT, AND ACCURATE LINES. CONTRACTOR SHALL PROVIDE EXPANSION JOINTS (TIE ROD AND/OR SLIP JOINT) WHERE OLD AND NEW CURBS MEET.
7. THE CONTRACTOR SHALL DISPOSE OF ALL ITEMS AND MATERIALS REMOVED AND NOT SALVAGED, INCLUDING ALL EXCAVATED MATERIAL, OFF-SITE AND IN A LEGAL MANNER. THE CONTRACTOR SHALL REMOVE, EXCAVATE, AND DISPOSE OF ALL MATERIALS ACCORDING TO CONTRACT SPECIFICATIONS.
8. ALL EXISTING PIPING TO BE MAINTAINED EXCEPT FOR WITHIN 3 FEET OF PROPOSED DRAINAGE STRUCTURES AND AS SHOWN. IF EXISTING PIPING BEYOND 3 FEET FROM THE PROPOSED STRUCTURES IS OBSERVED TO BE DAMAGED AT NO FAULT OF THE CONTRACTOR, THE ENGINEER SHALL PROVIDE DIRECTION AS TO EXTENTS OF REPLACEMENT.
9. THE CONTRACTOR SHALL TAKE EXTREME CARE TO PROTECT THE ROOT SYSTEMS OF EXISTING TREES. BULK MATERIAL, EQUIPMENT, OR VEHICLES SHALL NOT BE STOCKPILED OR PARKED WITHIN THE TREE PROTECTION ZONE.

LAYOUT & MATERIAL NOTES

1. NO CHANGES SHALL BE MADE TO THE DESIGN OR LAYOUT WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER. LAYOUT THE WORK AS DIMENSIONED ON THE PLANS. WRITTEN DIMENSIONS SHALL GOVERN. DO NOT SCALE DISTANCES.
2. CONTRACTOR SHALL STAKE LOCATION OF ALL GREEN INFRASTRUCTURE PRACTICES FOR APPROVAL BY THE ENGINEER PRIOR TO EXCAVATION WORK.
3. CONTRACTOR SHALL LAYOUT IN THE FIELD THE ALIGNMENT AT ALL PATHS, PAVEMENTS, CURBLINES FOR REVIEW BY THE ENGINEER PRIOR TO THE START OF WORK. ADJUSTMENTS MAY BE MADE ONLY AS DIRECTED BY THE ENGINEER. CONTRACTOR MAY NOT PROCEED WITH CONSTRUCTION OF IMPROVEMENTS UNTIL THEY HAVE RECEIVED THE FINAL APPROVAL OF THE LAYOUT FROM THE ENGINEER.
4. ALL NEW PAVEMENTS AND CURBS AND EXISTING PAVEMENTS AND CURBS TO REMAIN SHALL MEET IN SMOOTH FLUSH CONDITION UNLESS NOTED OTHERWISE.
5. NEW CURBS, WALLS, AND PAVEMENTS SHALL BE BUILT TO A SMOOTH EVEN FINISH WITH A CONSISTENT TOP AND PROFILE WITHOUT WAVES OR IRREGULARITIES. ANY WORK NOT MEETING THIS QUALITY STANDARD SHALL BE RECONSTRUCTED AT THE CONTRACTOR'S EXPENSE.
6. THE CONTRACTOR SHALL EXERCISE CARE DURING EXCAVATION OPERATIONS TO AVOID DISTURBING ADJACENT FACILITIES, SUB GRADE STRUCTURES AND TREES. ALL DAMAGE RESULTING FROM THE CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE REPAIRED AT NO EXPENSE TO THE CITY AND THE AGENCY. ALL REPAIR WORK SHALL BE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
7. IN AREAS WHERE NEW PAVEMENTS FALL WITHIN THE TREE PROTECTION ZONE OF EXISTING TREES, THE CONTRACTOR SHALL MINIMIZE EXCAVATIONS AT TREE ROOTS BY REDUCING THE AMOUNT OF FOUNDATION MATERIAL AS DIRECTED BY THE ENGINEER.
8. CONTRACTOR SHALL REFER TO NYC DEP'S NYC GREEN INFRASTRUCTURE ON-SITE DESIGN MANUAL (MAY 2019) FOR THE CONSTRUCTION OF ALL GREEN INFRASTRUCTURE PRACTICES.

TREE PROTECTION NOTES

1. NO LAND DISTURBANCE, DEMOLITION, OR CONSTRUCTION ACTIVITIES SHALL BEGIN UNTIL ALL TREE PROTECTION MEASURES HAVE BEEN INSTALLED AS SHOWN ON THE CONTRACT DRAWINGS.
2. CONSTRUCTION ACCESS ROUTE IS DIAGRAMMATIC. FINAL ROUTE SHALL BE ESTABLISHED ON SITE AND APPROVED BY THE RESIDENT ENGINEER, IN CONSULTATION WITH THE BOROUGH FORESTER OR THEIR REPRESENTATIVE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND PRESERVATION OF ALL EXISTING TREES NOT LISTED FOR REMOVAL THAT ARE LOCATED COMPLETELY OR PARTIALLY WITHIN THE CONTRACT LIMIT LINE.
4. THE CONTRACTOR SHALL NOTIFY THE BOROUGH FORESTER A MINIMUM OF 48 HOURS IN ADVANCE OF ANY WORK ON OR IMPACTING EXISTING TREES, INCLUDING BUT NOT LIMITED TO TREE PROTECTION, PRUNING, TREE REMOVAL, EXCAVATION WITHIN TREE PROTECTION ZONES, DECOMPACTION, TOPSOIL, AND PLANTING WORK.
5. THE TREE PROTECTION ZONE (TPZ) SHALL CONSIST OF THE CRITICAL ROOT ZONE AND/OR THE CANOPY DRIPLINE; WHICHEVER EXTENT IS GREATER.
6. THE CONTRACTOR SHALL TAKE EXTREME CARE TO PROTECT THE ROOT SYSTEMS OF EXISTING TREES. MATERIAL, EQUIPMENT, OR VEHICLES SHALL NOT BE STOCKPILED OR PARKED WITHIN THE TPZ OF ANY TREE COMPLETELY OR PARTIALLY WITHIN THE CONTRACT LIMIT LINE TO MINIMIZE SURFACE AND SUBSURFACE ROOT AND SOIL COMPACTION. IF STOCKPILING OCCURS WITHIN THE TPZ, A STOP WORK ORDER SHALL BE ISSUED IMMEDIATELY, AND WORK SHALL NOT RE-COMMENCE UNTIL ALL STOCKPILED MATERIAL IS REMOVED FROM THE TPZ AND MITIGATION MEASURES ARE PERFORMED TO THE SATISFACTION OF THE RESIDENT ENGINEER IN CONSULTATION WITH THE BOROUGH FORESTER OR THEIR REPRESENTATIVE.
7. IF DIRECTED, THE TPZ SHALL BE COVERED WITH WOOD CHIPS TO A DEPTH OF AT LEAST SIX (6) INCHES, WITH PLYWOOD OR GROUND PROTECTION MATS, OR A COMBINATION THEREOF. SUCH COVERING SHALL BE MAINTAINED FOR THE DURATION OF THE CONTRACT AND IS NOT TO BE REMOVED UNTIL DIRECTED BY THE BOROUGH FORESTER OR THEIR REPRESENTATIVE. REMOVAL SHALL BE BY HAND OR AS SPECIFIED BY THE BOROUGH FORESTER OR THEIR REPRESENTATIVE (ITEM "PROTECT EXIST. TREE ROOTS W/ WOOD CHIPS 6" DEPTH" AND "PROTECT EXIST. TREE ROOTS W/ PLYWOOD").
8. TEMPORARY WOODEN TREE GUARDS WITH WRAP FOR INDIVIDUAL TREES, TEMPORARY WOODEN TREE GUARD FOR GROVES, AND TEMPORARY SNOW FENCE BOUNDARY SHALL BE MAINTAINED FOR THE DURATION OF THE CONTRACT AND ARE NOT TO BE REMOVED UNTIL DIRECTED BY THE BOROUGH FORESTER OR THEIR REPRESENTATIVE.
9. ALL TREES COMPLETELY OR PARTIALLY WITHIN THE CONTRACT LIMIT LINE ARE TO RECEIVE AT LEAST ONE (1) INCH (THE EQUIVALENT OF 750 GALLONS OF WATER PER 1,000 SQUARE FEET OF TREE PROTECTION ZONE) OF WATER PER WEEK BETWEEN THE MONTHS OF MARCH AND OCTOBER. IF RAINWATER IN ANY GIVEN WEEK IS BELOW THIS QUANTITY, THE CONTRACTOR MUST SUPPLEMENT THE AMOUNT RECEIVED BY A METHOD APPROVED BY THE BOROUGH FORESTER OR THEIR REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
10. ALL TREE PRUNING AND TREE REMOVAL IS TO BE PERFORMED IN ACCORDANCE WITH ANSI A300 STANDARDS BY AN ARBORIST HOLDING CERTIFICATION FROM THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) OR EQUIVALENT EDUCATION AND EXPERIENCE. ANSI PRUNING TYPES SPECIFIED ON TREE PROTECTION SCHEDULE AND TREE DIAMETERS AT BREAST HEIGHT ARE TO BE CONFIRMED BY THE BOROUGH FORESTER OR THEIR REPRESENTATIVE BEFORE PRUNING WORK IS PERFORMED.
11. THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN REMOVING CONCRETE OR ASPHALT WITHIN THE DRIPLINE OF EXISTING TREES - LIFTING RATHER THAN DRAGGING PIECES OF PAVING. TOOLS FOR THIS ACTIVITY SHALL BE APPROVED BY THE BOROUGH FORESTER OR THEIR REPRESENTATIVE PRIOR TO THE START OF EXCAVATION.
12. ALL EXCAVATION AND PLANT INSTALLATION WITHIN THE TPZ SHALL BE PERFORMED BY HAND OR PNEUMATICALLY, WITH MINIMAL SOIL DISTURBANCE, AND UNDER THE SUPERVISION OF THE BOROUGH FORESTER OR THEIR REPRESENTATIVE. PLANTS SHALL NOT BE PLACED WITHIN THREE (3) FEET OF THE TREE TRUNK UNLESS APPROVED.
13. NO ROOTS SHALL BE CUT WITHOUT THE WRITTEN AUTHORIZATION OF THE BOROUGH FORESTER OR THEIR REPRESENTATIVE.
14. EXCAVATED AREAS WITHIN THE TPZ SHALL BE BACKFILLED IMMEDIATELY OR ROOTS SHALL BE KEPT CONSTANTLY MOIST WITH BURLAP COVERED WITH WHITE PLASTIC AND CHECKED A MINIMUM OF TWO (2) TIMES A DAY, ONCE IN THE MORNING AND ONCE IN THE AFTERNOON, FOR A MAXIMUM OF FORTY-EIGHT (48) HOURS, UNTIL BACKFILL IS COMPLETE. IF DIRECTED, SOAKER HOSES SHALL BE INSTALLED TO FACILITATE PROPERLY MOIST CONDITIONS. NO POOLING OF OR CONTINUOUS RUNNING WATER SHALL OCCUR WITHIN THE TPZ OTHER THAN THAT DURING THE IRRIGATION PROCESS. IF ROOTS ARE TO BE EXPOSED FOR A PERIOD GREATER THAN 48-HOURS, THE EXPOSED AREA SHALL BE COVERED WITH AT LEAST 6-INCHES OF MULCH AND MAINTAINED DURING THE COURSE OF CONSTRUCTION UNTIL THE AREA CAN BE PROPERLY BACKFILLED.
15. WHEN A TREE PROTECTION DEFICIENCY, AS DETERMINED BY THE BOROUGH FORESTER OR THEIR REPRESENTATIVE, IS IDENTIFIED, IT MUST BE REMEDIED WITHIN 24-HOURS OF NOTIFICATION BY THE AGENCY. FAILURE TO CORRECT THE DEFICIENCY WITHIN THIS TIMEFRAME WILL RESULT IN A STOP WORK ORDER, LIQUIDATED DAMAGES, OR BOTH.
16. ANY DAMAGE TO EXISTING TREES DURING CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL MITIGATE SUCH DAMAGE AS DIRECTED BY THE BOROUGH FORESTER OR THEIR REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
17. THE CONTRACTOR SHALL BE ASSESSED RESTITUTION, AS SOLELY DETERMINED BY THE DEPARTMENT OF PARKS AND RECREATION (NYCDPR), FOR TREES THAT ARE INJURED, IRREPARABLY DAMAGED, DESTROYED, OR REMOVED WITHOUT AUTHORIZATION.

DRAINAGE NOTES

1. ALL PROPOSED DRAINAGE WORK SHALL BE DONE IN CONFORMANCE WITH THE LATEST STANDARDS OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION (NYCDEP) AND THE LATEST STANDARDS OF THE DEPARTMENT OF PARKS AND RECREATION (NYCDPR). DISCREPANCIES BETWEEN THE STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
2. ALL EXISTING SEWER MANHOLES TO BE RETAINED WITHIN THE CONTRACT LIMIT LINE SHALL BE ADJUSTED AS NECESSARY, SO THAT THEY WILL BE FLUSH WITH THE FINISHED GRADES AFTER COMPLETION OF THE WORK. ANY OF THESE MANHOLES WHICH HAVE DAMAGED, WORN OR NON-STANDARD FRAMES AND COVERS SHALL BE PROVIDED WITH NEW 27" DIA. CASTINGS IN ACCORDANCE WITH THE LATEST STANDARDS OF NYC PARKS INCLUDING ANY NECESSARY MODIFICATIONS OF THE MANHOLE MASONRY. ANY DAMAGE TO THE MANHOLES CAUSED BY THIS WORK SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR, AS DIRECTED BY THE ENGINEER, AND AT NO COST TO THE CITY.
3. CARE SHALL BE TAKEN NOT TO DAMAGE EXISTING SEWERS DURING CONSTRUCTION. ANY DAMAGE CAUSED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER, AT NO EXTRA COST TO THE CITY.
4. WHERE THE HEIGHT OF AN EXISTING MANHOLE PERMITS MORE THAN ONE BASIN CONNECTION TO BE MADE ON THE SAME WALL, SPECIAL PRECAUTION SHALL BE TAKEN TO PROTECT THE STRUCTURAL INTEGRITY OF THE MANHOLE. THE MINIMUM CLEARANCE BETWEEN THE OUTSIDE WALLS OF ANY TWO BASIN CONNECTIONS OR BETWEEN A BASIN CONNECTION AND A SEWER, VERTICALLY OR HORIZONTALLY, SHALL BE 12 INCHES.
5. THE COST OF RAISING OR LOWERING CITY-OWNED MANHOLES, BASINS AND INLET HEADS TO PROPOSED GRADES WILL BE DEEMED INCLUDED IN THE PRICES BID FOR ALL THE SCHEDULED ITEMS WHEN THE VERTICAL UPWARD MOVEMENT OF ALL HEADS IS TWENTY-FOUR (24) INCHES OR LESS, WHEN THE VERTICAL DOWNWARD MOVEMENT OF MANHOLE HEADS IS SIX (6) INCHES OR LESS AND WHEN THE VERTICAL DOWNWARD MOVEMENT OF BASIN OR INLET HEADS IS THREE (3) INCHES OR LESS, UNLESS OTHERWISE PROVIDED OR DIRECTED, AND WHERE THE ADJUSTMENT IS WITHIN THE BRICK WORK LIMIT. WHEN THE EXISTING STRUCTURE CONSISTS OF A BRICK CHIMNEY OR A CONCRETE ROOF SLAB OR BRICK ON CONCRETE WALLS, THE MAXIMUM ALLOWABLE HEIGHT OF BRICK AFTER ADJUSTMENT SHALL BE TWENTY-FOUR (24) INCHES. ALL OTHER ADJUSTMENTS WILL BE PAID FOR UNDER THE APPROPRIATE MANHOLE, BASIN OR INLET MODIFICATION ITEMS.
6. ALL ABANDONED BASINS, INLETS AND DRAINAGE STRUCTURES AS SHOWN ON THE CONTRACT PLANS ARE TO BE BULK-HEADED AND CUT DOWN TO TWO (2) FEET BELOW THE SUBGRADE AND FILLED WITH COMPACTED CLEAN SAND. BASIN CONNECTIONS NOT REQUIRED SHALL BE PLUGGED AT BOTH ENDS. COST FOR THIS WORK SHALL BE DEEMED INCLUDED IN PRICES BID FOR ALL SCHEDULED ITEMS.
7. CATCH BASINS SHALL NOT, UNDER ANY CIRCUMSTANCES, BE CONNECTED TO SANITARY SEWERS.
8. ALL NEW CATCH BASIN CONNECTIONS SHALL BE CONNECTED TO EXISTING SEWERS AT MANHOLES, WITH DUCTILE IRON PIPE, CLASS 56, WITH INTERNALLY LOCKED "PUSH-ON" JOINTS LAID ON 6" OF BROKEN STONE FOR THE ENTIRE WIDTH OF THE TRENCH AND FOR ONE-HALF THE PIPE DIAMETER. THE BROKEN STONE SHALL BE HARD UNWEATHERED STONE UNIFORMLY GRADED FROM 1/4" TO 3/4"IN DIAMETER. IT SHALL CONFORM TO COMMERCIAL 1/4" TO 3/4" STONE. ALL NEW CATCH BASINS SHALL HAVE A HOOD ON THE OUTLET PIPE.
9. SLOPE ON ALL NEW CATCH BASIN CONNECTIONS SHALL BE A MINIMUM OF 1/2% AND A MAXIMUM OF 4% PROVIDED THE TOTAL DROP BETWEEN THE BASIN AND THE BASIN/MANHOLE IS AT LEAST 6 INCHES.
10. CATCH BASINS IN THE PROJECT AREA SHALL BE MAINTAINED OPERABLE AT ALL TIMES. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO AVOID FILLING THE CATCH BASINS WITH DEBRIS WITHIN THE CONTRACT LIMIT LINE DURING THE CONTRACT OPERATIONS. IF, AS A RESULT OF CONSTRUCTION, A FLOODING CONDITION OCCURS, OR IN THE EVENT THE CONTRACTOR'S OPERATIONS DAMAGE OR BLOCK THE DRAINAGE SYSTEM, THE CONTRACTOR SHALL AT THEIR OWN EXPENSE IMMEDIATELY REPAIR OR RESTORE THE DRAINAGE SYSTEM AS DIRECTED BY THE ENGINEER AT NO EXTRA COST TO THE CITY.
11. CONTRACTOR SHALL PROVIDE TEMPORARY MEANS (PIPES, PUMPS, ETC.) TO DRAIN ANY STORMWATER WHICH MAY DEVELOP WITHIN THE CONTRACT LIMIT LINE FOR THE DURATION OF CONSTRUCTION. CONTRACTOR SHALL SUBMIT A DRAINAGE SCHEME WHICH MUST BE APPROVED BY THE ENGINEER PRIOR TO THE START OF EACH CONSTRUCTION STAGE. COST OF THIS WORK WILL BE DEEMED TO HAVE BEEN INCLUDED IN THE PRICE BID FOR ALL SCHEDULED ITEMS.
12. ALL EXISTING SEWERS AND SEWER HOUSE CONNECTIONS SHALL BE CONTINUOUSLY MAINTAINED DURING CONSTRUCTION BY THE CONTRACTOR. IF ANY SEWER OR SEWER HOUSE CONNECTION IS TO BE DISCONNECTED FOR CONSTRUCTION PURPOSES, FLOW SHALL BE MAINTAINED BY FLUMING OR OTHER SUITABLE MEANS AS DIRECTED BY THE ENGINEER AND IN SUCH A MANNER THAT NO BACK-UPS OCCUR. EXISTING SEWERS, HOUSE CONNECTIONS OR OTHER SEWER APPURTENANCES WHICH ARE TO REMAIN, AND WHICH MIGHT BE DISTURBED FOR CONSTRUCTION PURPOSES, SHALL BE RESTORED TO THEIR PRESENT CONDITION AFTER COMPLETION OF THE WORK, AND ANY DAMAGE DONE AS A RESULT OF THE WORK SHALL BE REPAIRED AT NO EXTRA COST TO THE CITY.

EROSION AND SEDIMENT CONTROL NOTES

1. NO LAND DISTURBANCE, DEMOLITION OR CONSTRUCTION ACTIVITIES SHALL BEGIN UNTIL ALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES, INCLUDING, BUT NOT LIMITED TO, SILT FENCING, INLET PROTECTION, AND TREE PROTECTION HAVE BEEN INSTALLED AS SHOWN ON THE CONTRACT DRAWINGS. IF CLEARING IS REQUIRED FOR INSTALLATION OF A PARTICULAR MEASURE, ALL MEASURES NOT REQUIRING CLEARING SHALL BE INSTALLED FIRST. CLEARING OF THE NECESSARY LAND FOR INSTALLATION OF THE PARTICULAR MEASURE MAY THEN PROCEED.
2. DUE TO THE NATURE OF THE WORK REQUIRED BY THIS CONTRACT, IT IS ANTICIPATED THE LOCATION AND NATURE OF EROSION AND SEDIMENT CONTROL MEASURES WILL BE ADJUSTED AS CONSTRUCTION PROGRESSES TO REFLECT THE CURRENT PHASE OF WORK. THE CONSTRUCTION SCHEDULE ADOPTED BY THE CONTRACTOR WILL IMPACT THE PLACEMENT AND NEED FOR SPECIFIC DEVICES REQUIRED FOR THE CONTROL OF EROSION. THE LOCATION AND EXTENT OF EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REVISED AT EACH PHASE OF CONSTRUCTION RESULTING IN A CHANGE OF EITHER THE QUANTITY OR DIRECTION OF SURFACE RUNOFF FROM THE CONSTRUCTION AREAS.
3. INLET PROTECTION IS REQUIRED FOR ALL CATCH BASINS AND MANHOLES WITH OPEN GRATES WITHIN THE CONTRACT LIMIT LINE.
4. CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FROM THE ENGINEER AND REGULATORY AGENCIES FOR DEVIATIONS FROM THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
5. CLEARING SHALL BE LIMITED AS MUCH AS POSSIBLE TO AREAS REQUIRED FOR CURRENT CONSTRUCTION ACTIVITIES. MASS CLEARING AND GRADING SHALL BE AVOIDED.
6. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED BY THE ENGINEER WITHIN 24 HOURS FOLLOWING EVERY RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY SEVEN CALENDAR DAYS.
7. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REPAIRED OR REPLACED IMMEDIATELY AS REQUIRED TO MAINTAIN PERFORMANCE OF MEASURE. MEASURES SHALL BE CLEANED WHEN SEDIMENT VOLUME REACHES ½ OF TOTAL VOLUME OF MEASURE. REMOVED SEDIMENT SHALL BE DISPOSED OF IN SUCH A MANNER AND LOCATION AS TO INSURE FURTHER SEDIMENT TRANSPORT DOES NOT OCCUR.
8. CONTRACTOR SHALL INITIATE STABILIZATION MEASURES AS SOON AS PRACTICABLE ON STOCKPILES AND IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. THIS REQUIREMENT DOES NOT APPLY IN THE FOLLOWING INSTANCES:
   a. WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 7TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASED IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE;
   b. WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN FOURTEEN (14) DAYS, TEMPORARY STABILIZATION MEASURES NEED NOT BE INITIATED ON THAT PORTION OF THE SITE.
9. ALL DISTURBED AREAS SHALL DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBANCE ACTIVITIES AND UNTIL FINAL STABILIZATION IS ACHIEVED. SEDIMENT-LADEN GROUNDWATER ENCOUNTERED DURING TRENCHING, BORING, OR OTHER ACTIVITIES SHALL BE PUMPED INTO A SEDIMENT TRAPPING DEVICE PRIOR TO BEING DISCHARGED INTO A STREAM, POND, SWALE, OR CATCH BASIN.
10. SOIL STOCKPILE AND LAYDOWN AREAS SHALL HAVE PERIMETER SEDIMENT CONTROL MEASURES AND TEMPORARY OR PERMANENT STABILIZATION MEASURES INSTALLED AS SOON AS POSSIBLE AND AT COMPLETION OF STOCKPILING AND LAYDOWN ACTIVITIES. STOCKPILE SIDE SLOPES SHALL NOT EXCEED 3H ; 1V UNLESS APPROVED BY ENGINEER. TOP OF STOCKPILE SHALL BE GRADED WITH A MINIMUM 5% SLOPE TO INSURE PROPER DRAINAGE.
11. ALL DISTURBED AREAS, EXCEPT FOR CONCRETE AND PAVED AREAS, SHALL BE FERTILIZED, SEEDED AND MULCHED IN ACCORDANCE WITH THE SPECIFICATIONS AND THE SEEDING SCHEDULE, AND RE-SEEDED AS NECESSARY, TO ESTABLISH AND MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER.
12. ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS SHALL BE PROTECTED TO PREVENT THE DEPOSITION OF MATERIALS ONTO TRAVERSED OFFSITE ROADWAYS. IF MATERIAL IS TRACKED ONTO OFFSITE ROADWAYS, IT SHALL BE REMOVED IMMEDIATELY. DO NOT UTILIZE A WATER HOSE TO CLEAN ROADS UNLESS THE RUNOFF IS DIRECTED TO A PROPERLY DESIGNED AND FUNCTIONING SEDIMENT CONTROL DEVICE. PROPER PRECAUTIONS SHALL BE TAKEN TO ENSURE THAT MATERIALS DEPOSITED ONTO OFFSITE ROADWAYS ARE REMOVED SO THAT THEY DO NOT ENTER YARD INLETS, CATCH BASINS, SEWERS, WETLANDS, SURFACE WATER BODIES, OR ROADSIDE SWALES.
13. WHERE CONCRETE EQUIPMENT WASHING IS REQUIRED, THIS MUST BE DONE IN AN APPROVED “CONCRETE CONTAINMENT AREA”. CONTRACTOR SHALL NOT DISCHARGE ANY CONCRETE WASHOUT WATER INTO SEWERS, SURFACE WATER BODIES OR ONTO THE GROUND. ALL WASHOUT WATER MUST BE REMOVED FROM THE SITE(S) DAILY.
14. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST NEW YORK STATE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL.
15. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE, PERMANENT VEGETATION IS ESTABLISHED ON ALL DISTURBED AREAS, AND THE ENGINEER HAS GIVEN PERMISSION FOR REMOVAL.

Environmental Protection
CITY OF NEW YORK
ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis

NYC Parks
CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

SEAL

BLOCK 6203

LOT 1

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
FRANCIS LEWIS PLAYGROUND
LOCATED BETWEEN FRANCIS LEWIS AVE, 39TH AVE, AND 42ND AVE, QUEENS, NY

DRAWING TITLE
GENERAL NOTES

DESIGNED BY	DRAWN BY		CHECKED BY
---	---		KT
B-SCAN	SCALE: NO SCALE	DRAWING NO.: G002	CONTRACT NO.
	DATE: APRIL 2023		SHEET No. 02 OF 21 SHEETS

LEGEND

ABBREVIATIONS

AS PER RECORD	(A)
ASPHALT	ASPH.
BOTTOM OF CURB	B.C.
BOTTOM OF WALL	B.W.
CAST IRON	C.I.
CATCH BASIN	C.B.
CHAIN LINK FENCE	C.L.F
COMBINED	COMB.
CONCRETE	CONC.
CONCRETE CURB	C.C.
CONCRETE SIDEWALK	C.S.W.
CONSTRUCTION LIMIT LINE	C.L.L.
COPPER TUBING	C.T.
CRITICAL ROOT ZONE	C.R.Z.
DROP CURB	D.C.
DIAMETER	DIA.
DUCTILE IRON PIPE	D.I.P.
ELEVATION	ELEV.
EXISTING	EXIST.
EXTRA STRENGTH STEEL PIPE	E.S.S.P.
EXTRA STRENGTH VITRIFIED PIPE	E.S.V.P.
FROM RECORD PLAN	F.R.P.
GRANITE CURB	GRAN C.
HIGH DENSITY POLYETHYLENE	H.D.P.E.
INNER DIAMETER	I.D.
INVERT	INV.
LINED CAST IRON PIPE	L.C.P.
METAL FENCE	M.F.
OUTER DIAMETER	O.D.
ON CENTER	O.C.
MANHOLE	M.H.
NOT TO SCALE	N.T.S.
PAVERS	PAV.
PERFORATED POLYETHYLENE CORRUGATED PIPE	P.P.C.P.
PIPE RAIL FENCE	P.R.F
POLYETHYLENE CORRUGATED PIPE	P.C.P.
POLYVINYL CHLORIDE PIPE	P.V.C.
REINFORCED CONCRETE PIPE	R.C.P.
SANITARY	SAN.
SEWER	SWR.
STEEL FACED CURB	S.F.C.
STEEL WICKET FENCE	S.W.F.
STORM	STM.
TOP OF CURB	T.C.
TOP OF HOOD	T.O.H.
TOP OF WALL	T.W.
TREE PROTECTION ZONE	T.P.Z.
UNKNOWN	UNK.
VITRIFIED TILE PIPE	V.T.P.
WROUGHT IRON FENCE	W.I.F.

	EXISTING	PROPOSED
ELECTRIC MANHOLE	E	E
TELEPHONE MANHOLE	T	T
GAS MANHOLE	G	G
WATER MANHOLE	W	W
FIRE DEPT. MANHOLE	F	F
STORM SEWER MANHOLE	STM	STM
COMBINED SEWER MANHOLE	COMB	COMB
SANITARY SEWER MANHOLE	SAN	SAN
UNIDENTIFIED MANHOLE (NO RECORD AVAILABLE)	MH	MH
RECORD MANHOLE	S	S
HARDWARE RIM EL. & INV. EL. (SEWER, ETC.)	61.23 INV.47.89	61.23 INV.47.89
CATCH BASIN		
INLET		
YARD DRAIN		
LOW PRESSURE HYDRANT		
HIGH PRESSURE HYDRANT		
WOOD UTILITY POLE		
WOOD UTILITY POLE WITH STREET LIGHT		
STREET LIGHT (METAL POLE)		
GAS VALVE	G	G
WATER VALVE	W	W
TREE (SIZE AS LABELED)	12"	7"
SHRUB		
SIGN (GROUND MOUNTED)		
DRINKING FOUNTAIN		
FLAGPOLE		
MAPPED PROPERTY LINE	PL	
WATER SERVICE (WITH SIZE - LESS THAN 5")	1" WATER	1" WATER
8" WATER MAIN	8" WATER	8" WATER
12" WATER MAIN	12" WATER	12" WATER
48" WATER MAIN	48" WATER	48" WATER
72" WATER MAIN	72" WATER	72" WATER
STORM SEWER (WITH SIZE - LESS THAN 24")	15" STM. SEWER	15" STM. SEWER
STORM SEWER (WITH SIZE - 24" OR GREATER)	24" STM. SEWER	24" STM. SEWER
SANITARY SEWER (WITH SIZE - LESS THAN 24")	15" SAN. SEWER	15" SAN. SEWER
SANITARY SEWER (WITH SIZE - 24" OR GREATER)	24" SAN. SEWER	24" SAN. SEWER
COMBINED SEWER (WITH SIZE - LESS THAN 24")	15" COMB. SEWER	15" COMB. SEWER
COMBINED SEWER (WITH SIZE - 24" OR GREATER)	24" COMB. SEWER	24" COMB. SEWER
GAS LINE (WITH SIZE)	4" GAS	4" GAS
ELECTRIC	ELECTRIC	ELECTRIC
TELEPHONE	TELEPHONE	TELEPHONE
CABLE	CABLE	CABLE
FIRE ALARM	FIRE ALARM	FIRE ALARM
OVERHEAD (AERIAL) UTILITY LINE	A/E,T,F	A/E,T,F
CHAIN LINK FENCE (W/ HEIGHT)	6'	6'
IRON PICKET FENCE (W/ HEIGHT)	5'	5'
WIRE FENCE (W/ HEIGHT)	5'	
IRON ON CONCRETE COPING		
WOOD PICKET FENCE (W/ HEIGHT)	4'	4'
GUARD POST	GP	GP
BEAM TYPE MALL BARRIER		
PORTABLE PRECAST CONCRETE BARRIER		
CAST IN PLACE CONCRETE BARRIER		
RETAINING WALL (W/TYPE)	RW (STN.)	RW (STN.)
RAILROAD/TROLLEY TRACK		
TREE DRIPLINE		
TREE CRITICAL ROOT ZONE		
TREE PROTECTION ZONE		
MAJOR CONTOUR LINE	35	36
MINOR CONTOUR LINE	35	36

CONSTRUCTION ACCESS/ENTRANCE	
STAGING AREA	
STABILIZED CONSTRUCTION ENTRANCE	
TEMPORARY ASPHALT ENTRANCE	
FULL DEPTH PAVEMENT REMOVAL	
MILLING AND PAVING	
FULL EXCAVATION LIMIT	
SAWCUT LIMIT	
PIPE REMOVAL	
POINT OF BEGINNING	
CONSTRUCTION LIMIT LINE	CLL
SILT FENCE	SF SF
TEMPORARY CONSTRUCTION FENCE	CF
STRAW BALE DIKE	
TREE TO BE PROTECTED	## 7"
TREE TO BE TRANSPLANTED	## 7"
TREE TO BE REMOVED	## 7"
BORING LOCATION	B
PERMEABILITY TEST LOCATION	PT
GREEN INFRASTRUCTURE PRACTICE	
CLEANOUT/INSPECTION PORT	
ON-SITE GREEN INFRASTRUCTURE MANHOLE	
OUTLET CONTROL STRUCTURE	
DUAL CATCH BASIN	
MODIFIED CURB INLET	
PROPOSED STORM DRAIN (W/ FLOW DIRECTION)	
DRAINAGE AREA	
FLOW DIRECTION	FLOW
GREEN INFRASTRUCTURE CHARACTERISTICS	GI PRACTICE ID: TRIBUTARY AREA / VOLUME OF X.XX" STORM / CAPACITY MANAGED

NYC Environmental Protection

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ENVIRONMENTAL PROTECTION
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NYC Parks

CITY OF NEW YORK
PARKS & RECREATION
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SEAL

BLOCK 6203

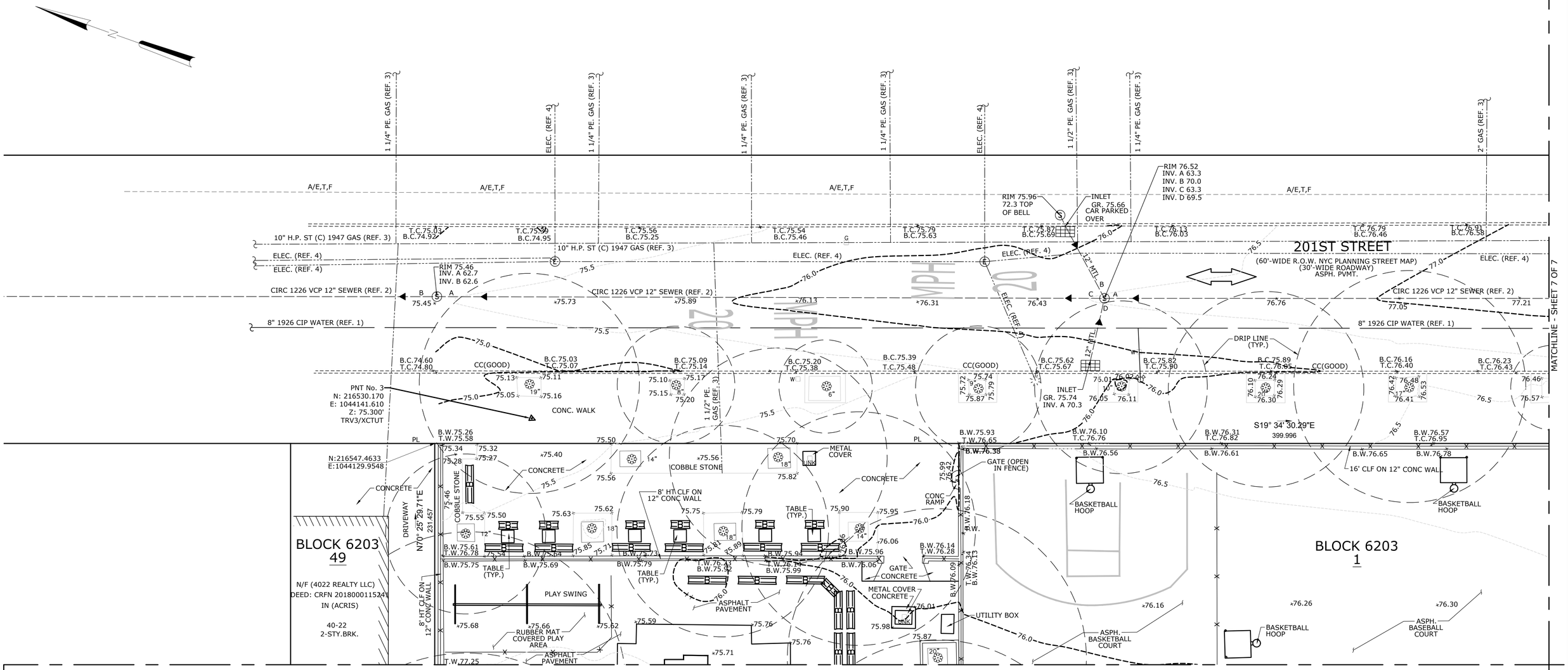
LOT 1

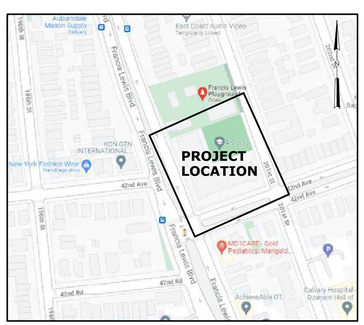
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ON-SITE GREEN INFRASTRUCTURE DESIGN
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DRAWING TITLE
LEGEND AND ABBREVIATIONS

DESIGNED BY	DRAWN BY	CHECKED BY
----	JH	KT

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	NO SCALE	G003	
	DATE APRIL 2023		SHEET No. 03 OF 21 SHEETS





GOOGLE MAP *NOT TO SCALE*

NOTES

1. VERTICAL DATUM - NAVD 1988 AND HORIZONTAL DATUM - NY LONG ISLAND STATE PLANE COORDINATE SYSTEM NAD83 (2011); BASED ON GPS OBSERVATIONS BY MATRIX NEW WORLD ON AUGUST 11, 2021 AND REFERRING TO LEICA SMARTNET CONTINUOUSLY OPERATING REFERENCE STATION (CORS) NETWORK, NATIONAL GEODETIC SURVEY MONUMENT: CORS STATION "NYCI, NYBR, NYVH & RVDI".
2. MATRIX NEW WORLD MAKES NO GUARANTEES THAT ALL UNDERGROUND UTILITIES ARE SHOWN HEREON AND THAT THE EXACT LOCATIONS OF THE UNDERGROUND UTILITIES INDICATED ON THIS SURVEY ARE APPROXIMATE. ALL UTILITY LOCATIONS MUST BE VERIFIED WITH THE PROPER UTILITY COMPANIES PRIOR TO DESIGN, EXCAVATION OR CONSTRUCTION.
3. THESE DRAWINGS WERE ORIGINALLY PREPARED IN 2021 BASED ON SURVEY INFORMATION AVAILABLE AT THAT TIME. THE DOCUMENTS ARE BEING SIGNED AND SEALED ON THE CURRENT DATE FOR SUBMISSION PURPOSES. NO UPDATED SURVEY OR VERIFICATION OF EXISTING SITE CONDITIONS HAS BEEN PERFORMED UNLESS OTHERWISE NOTED.

BOUNDARY REFERENCES

MAP REFERENCE:

1. LOT 1 BLOCK 6203 - NO VESTING DEED PROVIDED.
2. BOUNDARY SURVEY IS PREPARED WITHOUT A TITLE REPORT. BOUNDARY LINE SHOWN ARE BASED ON CITY RECORD MAP PER NOTES 3 AND 4
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10 5 0 10 20 30
GRAPHIC SCALE
1 inch=10 feet

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SEAL
STATE OF NEW YORK
RONALD STEPHEN WINGER
LICENSED LAND SURVEYOR
049091

BLOCK
LOT

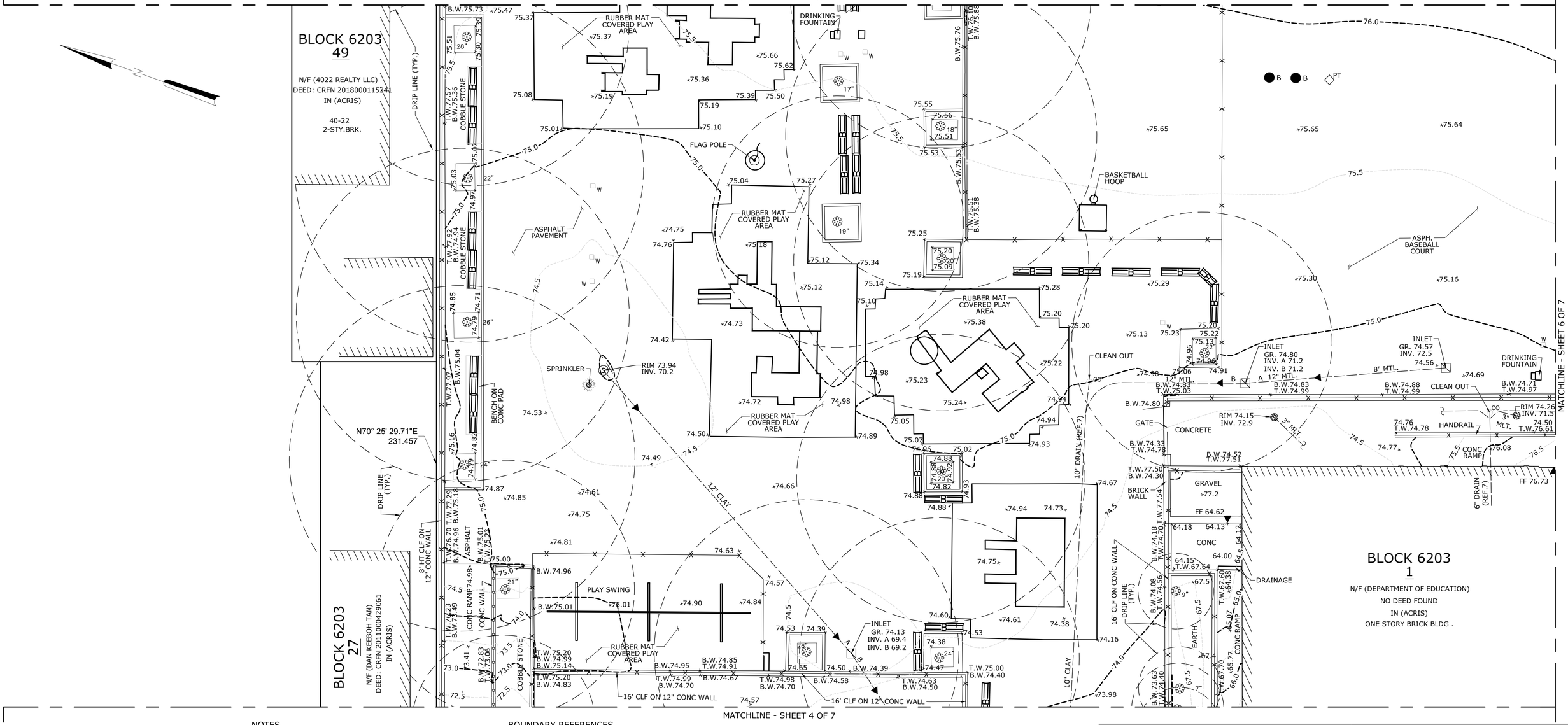
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DRAWING TITLE TOPOGRAPHIC & BOUNDARY SURVEY OF FRANCIS LEWIS PLAYGROUND

DESIGNED BY	DRAWN BY	CHECKED BY
NA	H.ZAHIRI	B.WYNESS

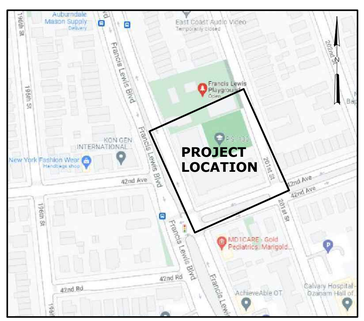
B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1"=10'		
	DATE 6-15-2026		Sheet 2 of 7

MATCHLINE - SHEET 2 OF 7



MATCHLINE - SHEET 6 OF 7

MATCHLINE - SHEET 4 OF 7



GOOGLE MAP *NOT TO SCALE*

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DAVID STEPHEN WINKLER
050510
LICENSED LAND SURVEYOR

BLOCK

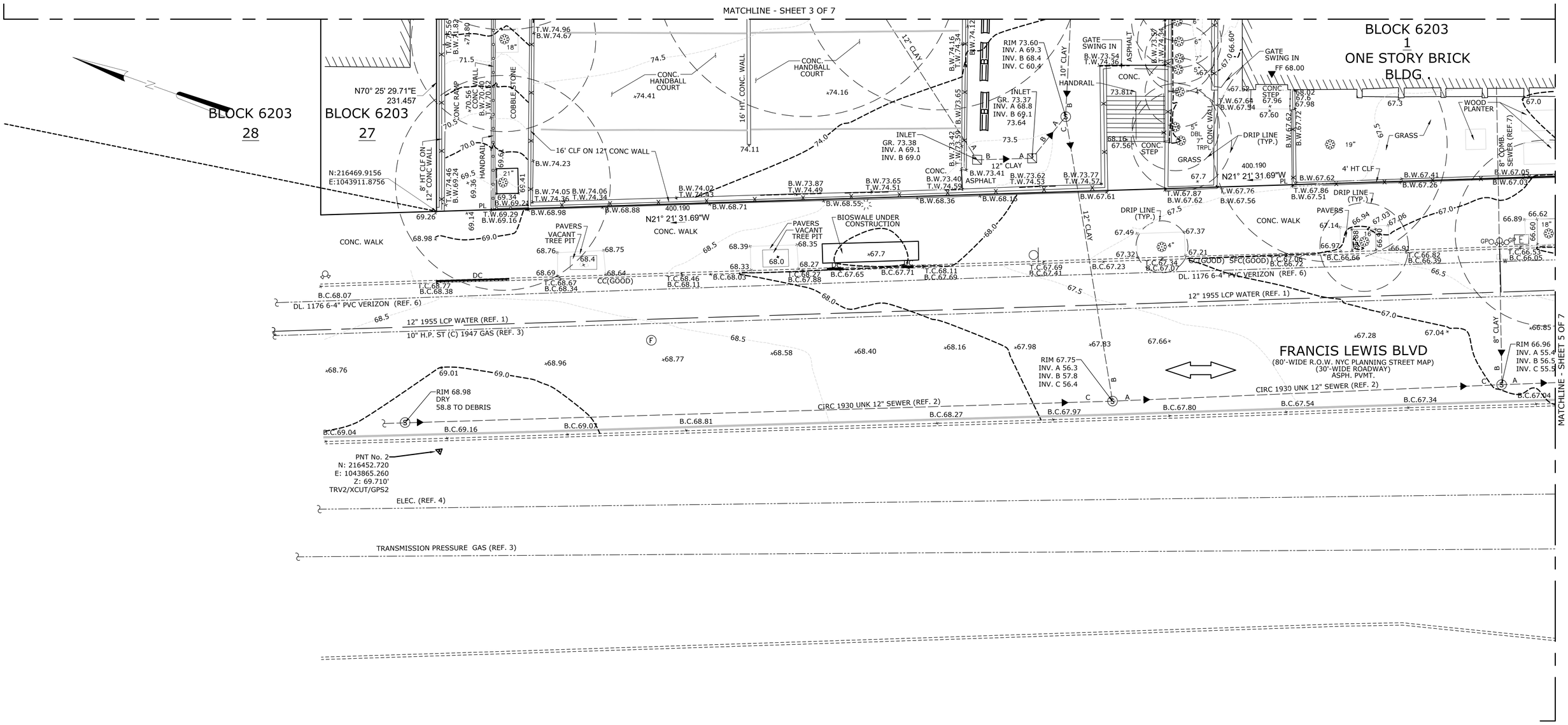
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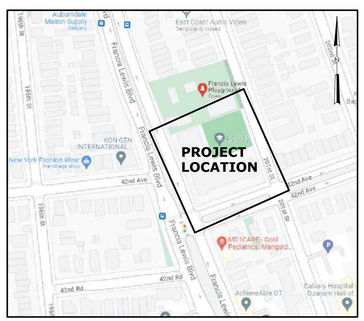
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DESIGNED BY	DRAWN BY	CHECKED BY
NA	H.ZAHIRI	B.WYNESS

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1"=10'		
	DATE 6-15-2026		Sheet 3 of 7





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SEAL

STATE OF NEW YORK
DONALD STEPHEN BONCKER
LICENSED LAND SURVEYOR
049515

BLOCK

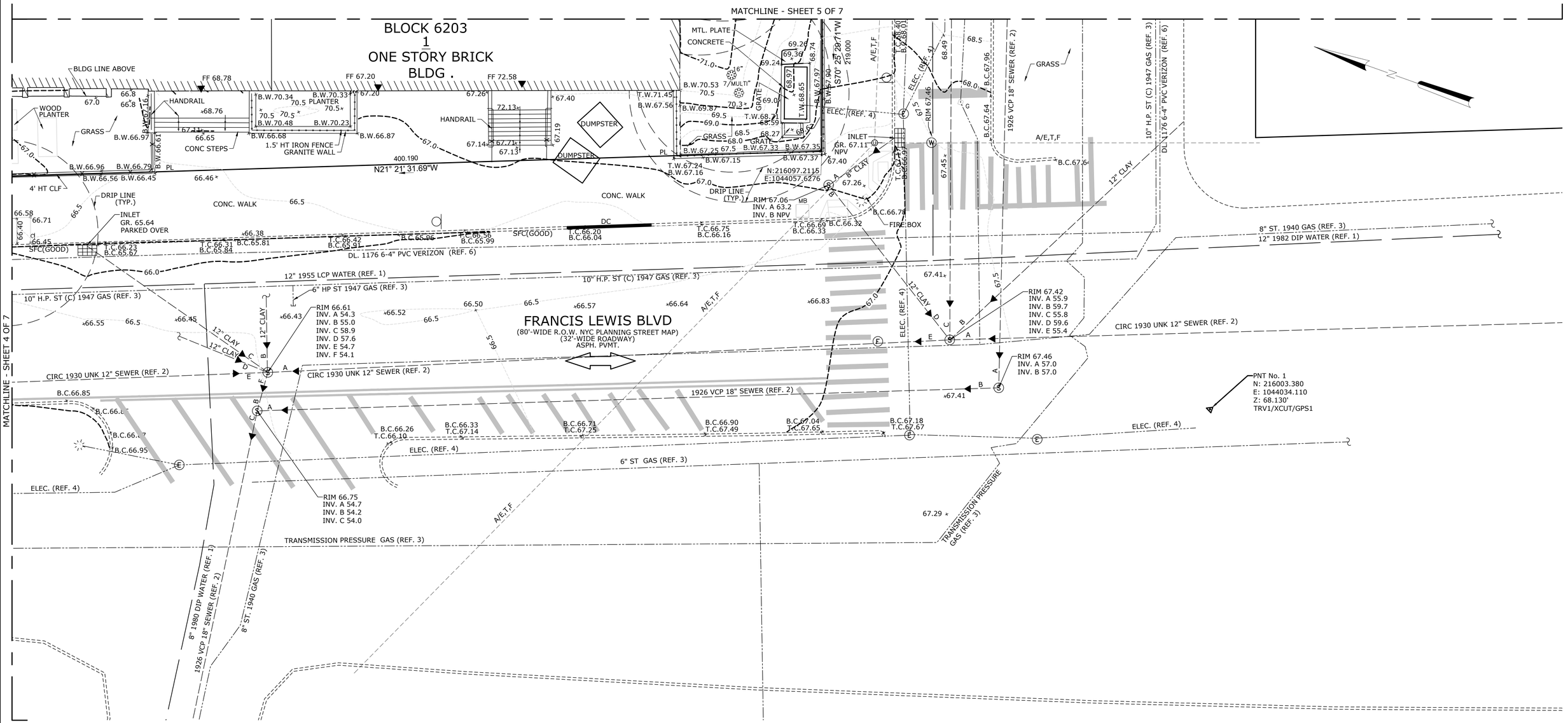
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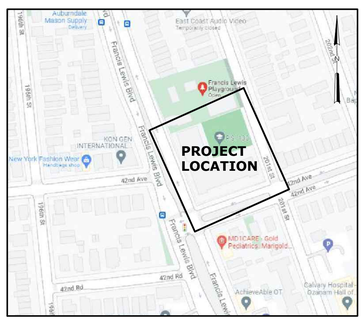
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LICENSED LAND SURVEYOR

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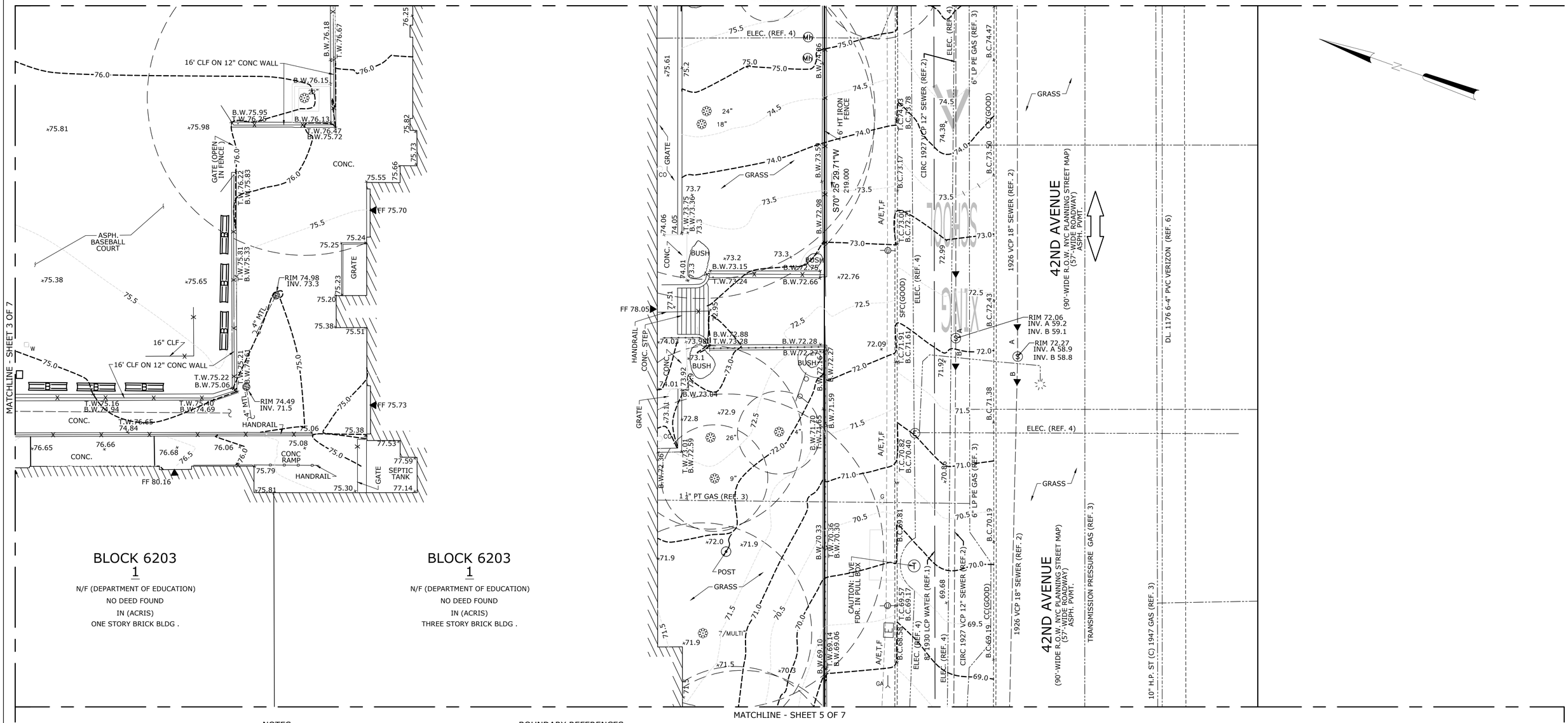
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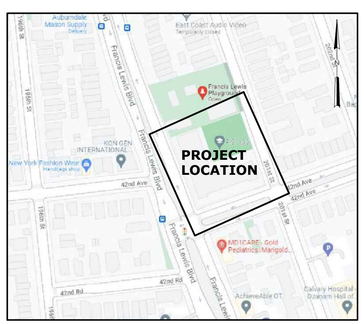
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MATCHLINE - SHEET 7 OF 7



MATCHLINE - SHEET 5 OF 7



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STATE OF NEW YORK · DAVID STEPHEN WORDSELL · 049814 · LICENSED LAND SURVEYOR

BLOCK

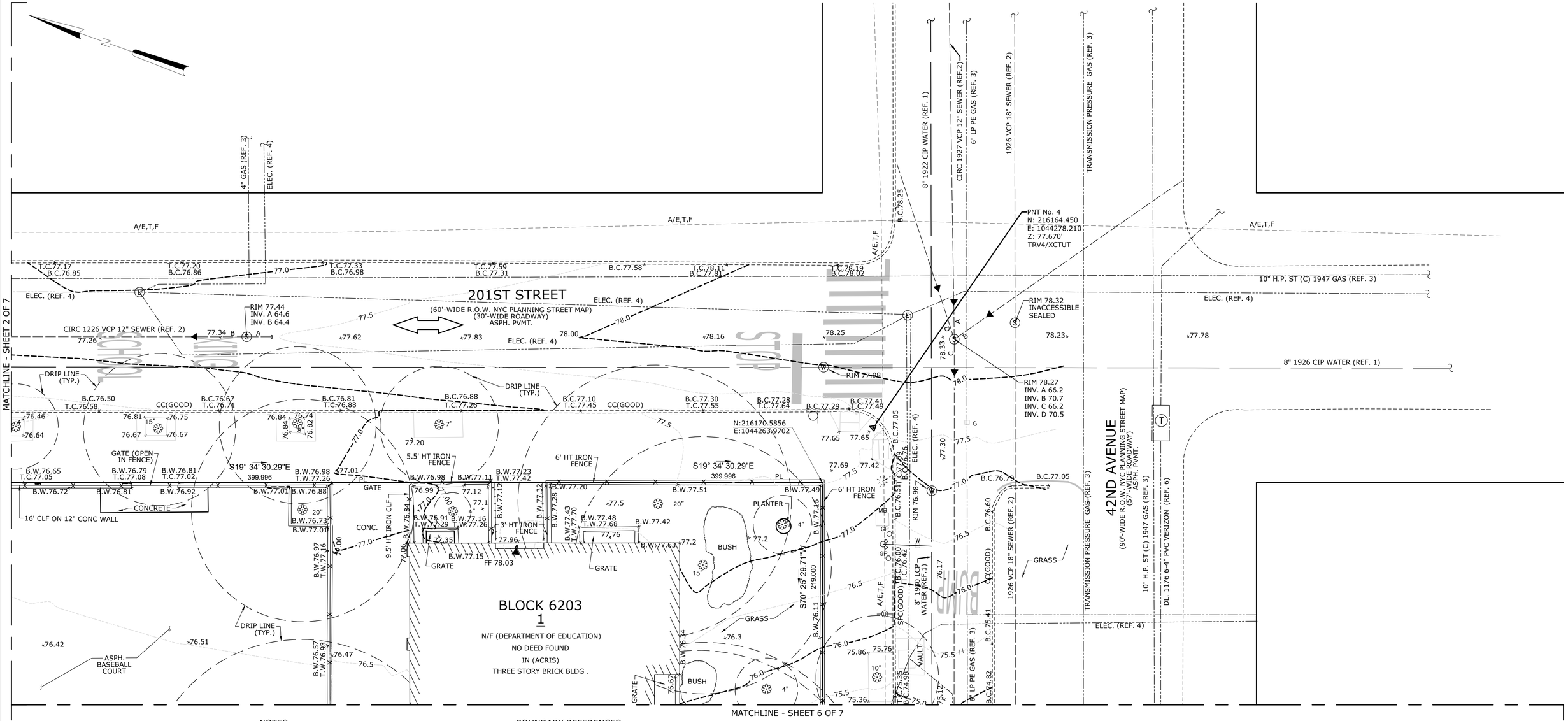
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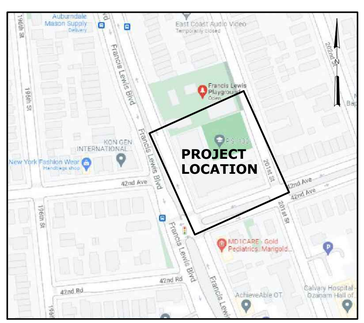
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049814
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DESIGNED BY NA | DRAWN BY H.ZAHIRI | CHECKED BY B.WYNESS

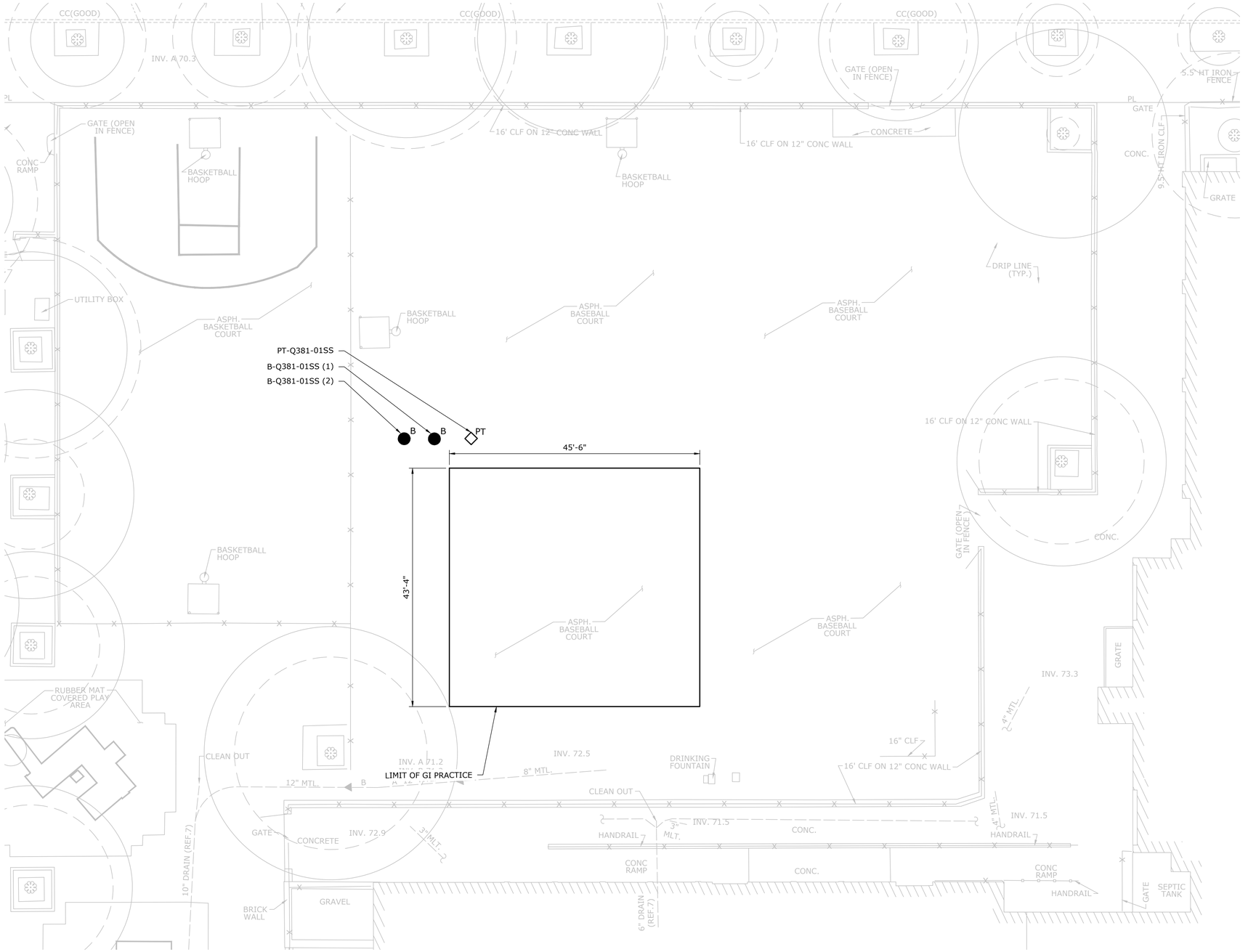
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DATE 6-15-2026

BLOCK

LOT

Sheet 7 of 7



LEGEND

BORING LOCATION — B

PERMEABILITY TEST LOCATION — PT

GREEN INFRASTRUCTURE PRACTICE

5 0 5 10

SCALE: 1" = 10'

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NO.	DATE	ISSUED FOR	BY

SEAL

BLOCK 6203

LOT 1

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
FRANCIS LEWIS PLAYGROUND
LOCATED BETWEEN FRANCIS LEWIS AVE, 39TH AVE, AND 42ND AVE, QUEENS, NY

DRAWING TITLE
BORING PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
---	JM	KT

B-SCAN

SCALE: 1" = 10'

DATE: NOV 2026

DRAWING NO.: B100

CONTRACT NO.: GI-CONS-6

SHEET No. 10 OF 21 SHEETS

B- Q381-01SS(1) BORING LOG

Depth Below Ground Surface (ft)	Soil Description (Field Observations)	SPT Blows per 6"	N Value	Recovery Length (inches)	Remarks
0	Asphalt				
	Dry, mod. compaction, brown, m-f SAND with trace silt and gravel (SP-SM)	16, 16, 14, 15	30	22	Fill
5	Dry, mod. compaction, brown, m-f SAND with trace silt and gravel (SP-SM)	19, 17, 17, 19	34	21	Fill. Sample contains slightly more gravel than 3-5' sample.
	Dry, mod. compaction, brown, c-f SAND with little gravel and traces of silt (SW)	15, 29, 25, 20	54	7	Fill. Rock stuck in bottom of spoon.
10	Low moisture, dense, brown, m-f SAND with little gravel and little silt (SW-SM)	17, 13, 50, *	63	24	*50 blows over 5". Refusal at 10'-5" bgs.
15					Boring terminated at 15 feet below ground surface unless otherwise instructed.

Bulk Sample 1 (S1); Bulk Sample 2 (S2); Bulk Sample 3 (S3); Bulk Sample 4 (S4); Bulk Sample 5 (S5); Bulk Sample 6 (S6)

Inspector's Remarks:
Refusal at 10'-5" bgs. Abandoned location and reattempted in B-Q381-01SS(2), per the geotech protocol.

B-Q381-01SS (1)

B-Q381-01SS(2) BORING LOG

Depth Below Ground Surface (ft)	Soil Description (Field Observations)	SPT Blows per 6"	N Value	Recovery Length (inches)	Remarks
0	Asphalt				
5					
10	Dry, mod. compaction, brown, m-f SAND with trace silt and trace gravel (SW-SM)	14, 9, 11, 13	20	21	Fill
	Dry, mod. compaction, brown, m-f SAND with trace silt and some gravel (SW-SM)	19, 17, 16, 14	33	15	Fill
15	Moist, mod. compaction, brown, c-f SAND with some gravel and trace silt (SW-SM)	11, 9, 10, 11	19	16	Fill
					Boring terminated at 15 feet bgs

Bulk Sample 1 (S1); Bulk Sample 2 (S2); Bulk Sample 3 (S3); Bulk Sample 4 (S4); Bulk Sample 5 (S5); Bulk Sample 6 (S6)

Inspector's Remarks:
Drilled straight down to 9' bgs; no samples collected between 3'-0" and 9'-0" bgs, as these sample were collected in B-Q381-01SS(1).

B-Q381-01SS (2)

PERMEABILITY TEST SUMMARY				
Location	Test Depth (ft)	Average Permeability for In-Situ Testing 1 (Inches/hour)	Average Permeability for In-Situ Testing 2 (Inches/hour)	Average of Test 1&2 (Inches/hour)
PT-Q381-01SS	5'	0.3130	0.2886	0.3008
	10'	0.1190	0.0978	0.1048

B-Q381-01SS, PERMEABILITY TEST

Boring ID	LABORATORY SAMPLE RESULTS		
	Depth (ft)	USCS Symbol	% Passing No 200 Sieve
B-Q381-01SS	3-5 (1)	SM	20.9
	5-7 (1)	SM	20.4
	7-9 (1)	SM	21.0
	9-11 (1)	SM	22.0
	9-11 (2)	SM	17.8
	11-13 (2)	SM	13.6
	13-15 (2)	SM	20.2

B-Q381-01SS (1) and B-Q381-01SS (2), LAB SAMPLE RESULTS

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Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

SEAL

BLOCK 6203

LOT 1

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
FRANCIS LEWIS PLAYGROUND
LOCATED BETWEEN FRANCIS LEWIS AVE, 39TH AVE, AND 42ND AVE, QUEENS, NY

DRAWING TITLE
BORING LOG

DESIGNED BY	DRAWN BY	CHECKED BY
---	JM	KT

B-SCAN

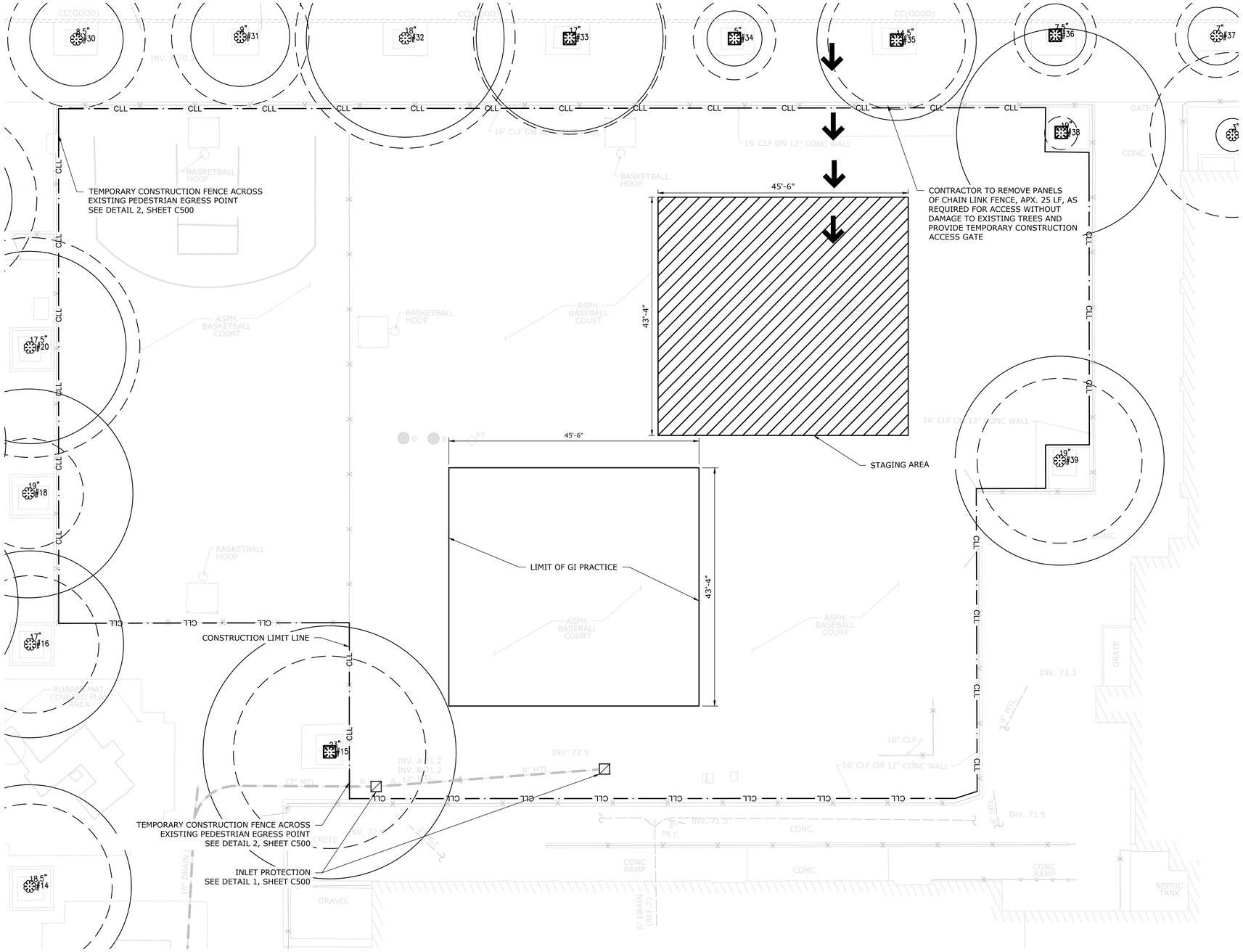
SCALE: NO SCALE

DRAWING NO.: B101

DATE: NOV 2026

CONTRACT NO.: GI-CONS-6

SHEET No. 11 OF 21 SHEETS



LEGEND

- TREE DRIPLINE
- TREE CRITICAL ROOT ZONE
- STAGING AREA
- CONSTRUCTION ACCESS/ENTRANCE
- CONSTRUCTION LIMIT LINE — CLL
- TEMPORARY CONSTRUCTION FENCE — CF
- TREE TO BE PROTECTED — 3 #12"
- GREEN INFRASTRUCTURE PRACTICE

5 0 5 10
SCALE: 1" = 10'

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NO.	DATE	ISSUED FOR	BY

SEAL

BLOCK 6203

LOT 1

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
FRANCIS LEWIS PLAYGROUND
LOCATED BETWEEN FRANCIS LEWIS AVE, 39TH AVE, AND 42ND AVE, QUEENS, NY

DRAWING TITLE
TREE PROTECTION AND STAGING PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
JM	JM	KT

B-SCAN

SCALE: 1" = 10'

DRAWING NO.: C100

DATE: NOV 2026

CONTRACT NO.: GI-CONS-6

SHEET No. 12 OF 21 SHEETS

TREE #	SPECIES (common name)	DBH (inches)	CTLA CONDITION RATING	ISA CRITICAL ROOTZONE (CRZ) RADIUS (ft.)	TREE REMOVAL	STUMP REMOVAL	TRANSPLANT TREE	PREPARATORY PRUNING ANSI A-300							TREE PROTECTION							DECOMPACT				PREPARATORY FERTILIZE	TREE GROWTH REGULATOR
								Cleaning	Raising	Reducing	Restoring	Structural	Thinning	Limb Tying	Temporary Wooden Tree Guard	Temporary Wooden Tree Guard For Groves	Temporary Fence Boundary	Protect Existing Tree Roots w/ Woodchips	Protect Ex. Tree Roots w/ Plywood or Mats	Air-Tilling 3 Ft Radius	Air-Tilling 5 Ft Radius	Radial Trench	Vertical Mulch		
1	JAPANESE PAGODA TREE	8	100%	10.0			X			X																	
2	JAPANESE PAGODA TREE	6	53%	5.5																							
3	JAPANESE PAGODA TREE	6	63%	6.0			X			X																	
4	JAPANESE PAGODA TREE	6	53%	6.0																							
5	LONDON PLANETREE	19	78%	19.0																							
6	LONDON PLANETREE	18	78%	17.5																							
7	LONDON PLANETREE	21	81%	21.0																							
8	LONDON PLANETREE	23	78%	23.0																							
9	LONDON PLANETREE	23	88%	23.0																							
10	LONDON PLANETREE	21	84%	21.0																							
11	LONDON PLANETREE	25	88%	25.0																							
12	LONDON PLANETREE	24	88%	24.0																							
13	LONDON PLANETREE	23	88%	23.0																							
14	LONDON PLANETREE	19	88%	18.5																							
15	LONDON PLANETREE	23	88%	23.0			X								X												
16	LONDON PLANETREE	17	81%	17.0																							
17	LONDON PLANETREE	20	100%	19.5																							
18	LONDON PLANETREE	19	100%	19.0																							
19	LONDON PLANETREE	17	100%	17.0																							
20	LONDON PLANETREE	18	72%	17.5																							
21	LONDON PLANETREE	13	81%	13.0																							
22	LONDON PLANETREE	19	84%	18.5																							
23	LONDON PLANETREE	19	84%	18.5																							
24	MAPLE, RED	10	100%	9.5																							
25	LONDON PLANETREE	19	88%	18.5																							
26	LONDON PLANETREE	14	88%	14.0																							
27	LONDON PLANETREE	6	75%	4.5																							
28	LONDON PLANETREE	17	88%	16.5																							
29	LONDON PLANETREE	5	81%	3.8																							
30	LONDON PLANETREE	9	88%	8.5																							
31	LONDON PLANETREE	9	88%	9.0																							
32	LONDON PLANETREE	18	88%	18.0																							
33	LONDON PLANETREE	17	88%	17.0											X												
34	LONDON PLANETREE	5	88%	5.0											X												
35	LONDON PLANETREE	15	72%	14.5											X												
36	LONDON PLANETREE	8	81%	5.6											X												
37	LONDON PLANETREE	7	88%	5.3																							
38	SPRUCE, NORWAY	19	100%	19.0											X												
39	LONDON PLANETREE	19	88%	19.0																							
40	LONDON PLANETREE	3	78%	3.0																							
41	OAK, PIN	20	84%	19.5																							
42	MAPLE, NORWAY	16	81%	15.5																							
43	DOGWOOD, FLOWERING	3	91%	3.0																							
44	OAK, NORTHERN RED	4	91%	3.0																							
45	OAK, PIN	24	75%	23.5																							
46	OAK, PIN	19	75%	19.0																							
47	OAK, PIN	24	100%	23.5																							
48	DOGWOOD, FLOWERING	5	84%	3.8																							
49	MAPLE, JAPANESE	7	100%	7.0																							
50	MAPLE, NORWAY	17	100%	17.0																							
51	MAPLE, NORWAY	16	100%	16.0																							
52	MAPLE, NORWAY	11	100%	11.0																							
53	LONDON PLANETREE	7	97%	5.3																							
54	LONDON PLANETREE	9	97%	8.5							X																
55	ZELKOVA, JAPANESE	13	97%	16.3							X																
56	ZELKOVA, JAPANESE	14	94%	17.5																							
57	LONDON PLANETREE	19	100%	19.0																							
58	LONDON PLANETREE	15	78%	15.0																							
59	CHERRY, OTHER	3	78%	3.0							X																
60	CHERRY, OTHER	3	100%	3.0			X																				
61	HONEYLOCUST	22	97%	16.1																							
62	YEW	10	100%	12.5																							
63	YEW	7	100%	7.0																							
64	YEW	4	100%	4.0																							
65	YEW	5	100%	5.0																							
66	YEW	8	100%	10.0																							
67	YEW	5	100%	4.5																							
68	YEW	3	100%	3.0																							
69	YEW	6	100%	6.0																							
70	YEW	6	100%	6.0																							
71	YEW	2	100%	3.0																							
72	YEW	2	100%	3.0																							
73	YEW	9	100%	10.6																							

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NO.	DATE	ISSUED FOR	BY

SEAL

BLOCK 6203

LOT 1

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
FRANCIS LEWIS PLAYGROUND
LOCATED BETWEEN FRANCIS LEWIS AVE, 39TH AVE, AND 42ND AVE, QUEENS, NY

DRAWING TITLE
TREE PROTECTION SCHEDULE

DESIGNED BY	DRAWN BY	CHECKED BY
---	---	KT

B-SCAN

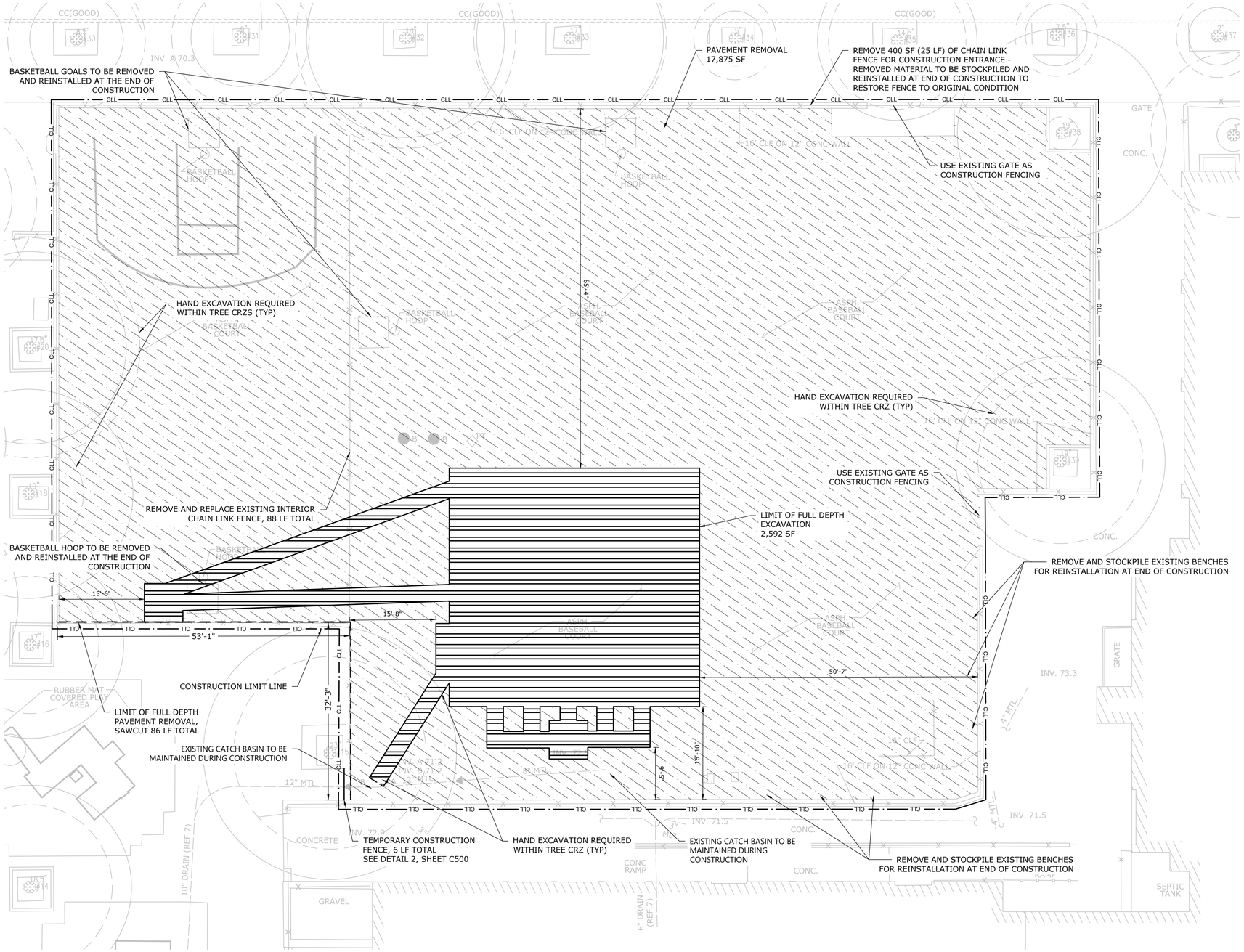
SCALE: NO SCALE

DRAWING NO.: C101

DATE: NOV 2026

CONTRACT NO.: GI-CONS-6

SHEET No. 13 OF 21 SHEETS



LEGEND

- GREEN INFRASTRUCTURE PRACTICE
- CONSTRUCTION LIMIT LINE — CLL — CLL
- SAWCUT LINE
- TEMPORARY CONSTRUCTION FENCE — CF
- FULL DEPTH PAVEMENT REMOVAL
- FULL DEPTH EXCAVATION

CONSTRUCTION SEQUENCING:

1. INSTALL TEMPORARY CONSTRUCTION FENCE (SEE DETAIL 2 SHEET C500).
   1.1. CONSTRUCTION FENCE SHOWN IS APPROXIMATE OUTER LIMITS. FENCED AREA SHALL BE REDUCED IF AN AREA IS COMPLETED TO ALLOW PEDESTRIAN ACCESS.
2. INLET DRAIN PROTECTION (SEE DETAIL 1, SHEET C500) SHALL BE USED ON ALL INLET DRAINS ADJACENT TO AND DOWNSTREAM OF CONSTRUCTION AREA.
3. EXISTING BENCHES SHALL BE REMOVED AND STORED FOR REINSTALLATION.
4. EXCAVATION AND INSTALLATION OF GREEN INFRASTRUCTURE PRACTICES SHALL BE PERFORMED, ALONG WITH ALL ASSOCIATED APPURTENANCES.
   4.1. SHEETING AND BRACING SHALL BE INSTALLED FOR ALL EXCAVATIONS DEEPER THAN 5 FEET.
   4.2. HAND AND/OR PNEUMATIC EXCAVATION IS REQUIRED WITHIN ALL TREE CRITICAL ROOT ZONES (CRZs)
5. PAVING IN THE WORK AREA SHALL BE RESTORED. PAINT MARKINGS IN WORK AREAS SHALL BE REPLACED IN KIND. BENCHES SHALL BE REPLACED.
6. EROSION AND CONTROL MEASURES AND CONSTRUCTION FENCE SHALL BE REMOVED.
7. EXISTING UNDERGROUND SITE DRAINAGE AND SEWER PIPES SHALL BE CLEANED OUT UPON COMPLETION OF THE CONTRACT WORK.

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BLOCK 6203

LOT 1

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
FRANCIS LEWIS PLAYGROUND
LOCATED BETWEEN FRANCIS LEWIS AVE, 39TH AVE, AND 42ND AVE, QUEENS, NY

DRAWING TITLE
REMOVALS AND DEMOLITION PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
JM	JM	KT

B-SCAN

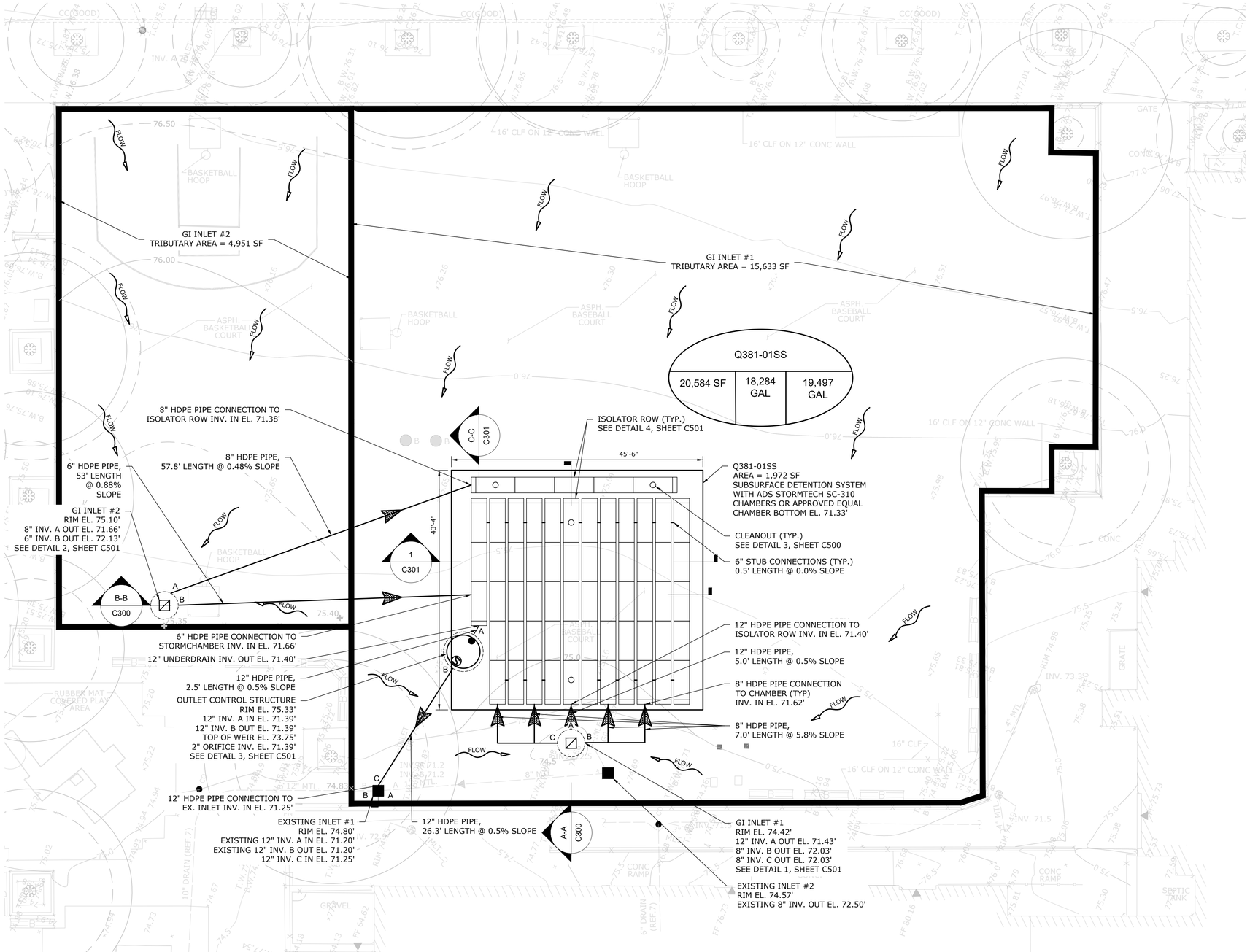
SCALE 1" = 10'

DRAWING NO. C102

DATE NOV 2026

CONTRACT NO. GI-CONS-6

SHEET No. 14 OF 21 SHEETS



LEGEND

- GREEN INFRASTRUCTURE PRACTICE
- DRAINAGE AREA
- PROPOSED STORM DRAIN
- INSPECTION PORT/CLEANOUT
- FLOW DIRECTION
- OUTLET CONTROL STRUCTURE
- GI INLET
- SOLID COVER
- GREEN INFRASTRUCTURE CHARACTERISTICS

GI PRACTICE ID		
TRIBUTARY AREA	VOLUME OF 1.5" STORM	CAPACITY MANAGED

5 0 5 10
SCALE: 1" = 10'

GI ID	GI Asset Data					Stormwater Storage Calculations										Total Stormwater Managed (Infiltration + Storage)				
							Surface Storage			Engineered Soil			Stone Subbase							
	Managed Impervious Tributary Area	Volume 1.5" Rainfall on Impervious Area	GI Footprint Surface Area	GI Perimeter	Permeability Coefficient	Stormwater chambers, pipes, tanks, etc. volume	Surface Storage Area	Surface Storage Depth	Surface Storage Volume	Soil Depth	Soil Voids	Stormwater Captured by Soil	Stone Depth	Stone Voids	Stormwater Captured by Stone Layer	Estimated Total Infiltration Volume	Estimated Total Storage Volume	% Impervious Surface Managed	Calculated Volume of Rainfall Captured	Calculated Volume of Rainfall Captured
	sf	cf	sf	ft	in/hr	cf	sf	in	cf	ft	%	cf	ft	%	cf	cf	cf	%	cf	gal
Q381-01SS	20,584	2,444.4	1,972	178	0.30	926.10	0.0	0	0.0	0.00	25	0.0	2.35	40	1,483.2	197.2	2,409.3	107%	2,606.5	19,496.9

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SEAL

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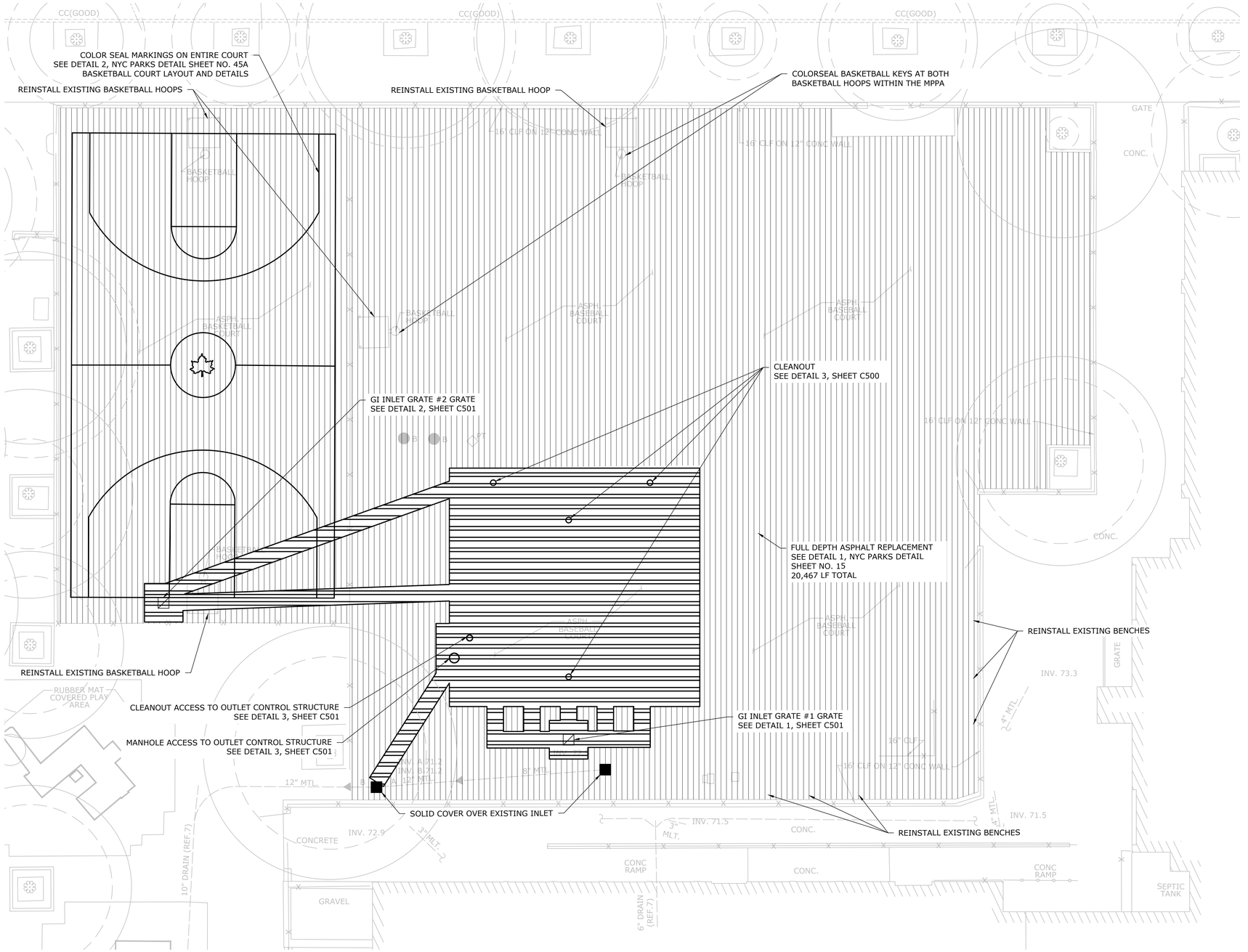
LOT 1

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
FRANCIS LEWIS PLAYGROUND
LOCATED BETWEEN FRANCIS LEWIS AVE, 39TH AVE, AND 42ND AVE, QUEENS, NY

DRAWING TITLE
PROPOSED GREEN INFRASTRUCTURE LAYOUT PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
JM	JM	KT

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 10'	C200	GI-CONS-6
	DATE NOV 2026		SHEET No. 15 OF 21 SHEETS



LEGEND

- SOLID COVER
- GI INLET
- CLEANOUT
- MANHOLE COVER
- FULL DEPTH ASPHALT INSTALLATION
- FULL DEPTH EXCAVATION

5 0 5 10
SCALE: 1" = 10'

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NO.	DATE	ISSUED FOR	BY

SEAL

BLOCK 6203

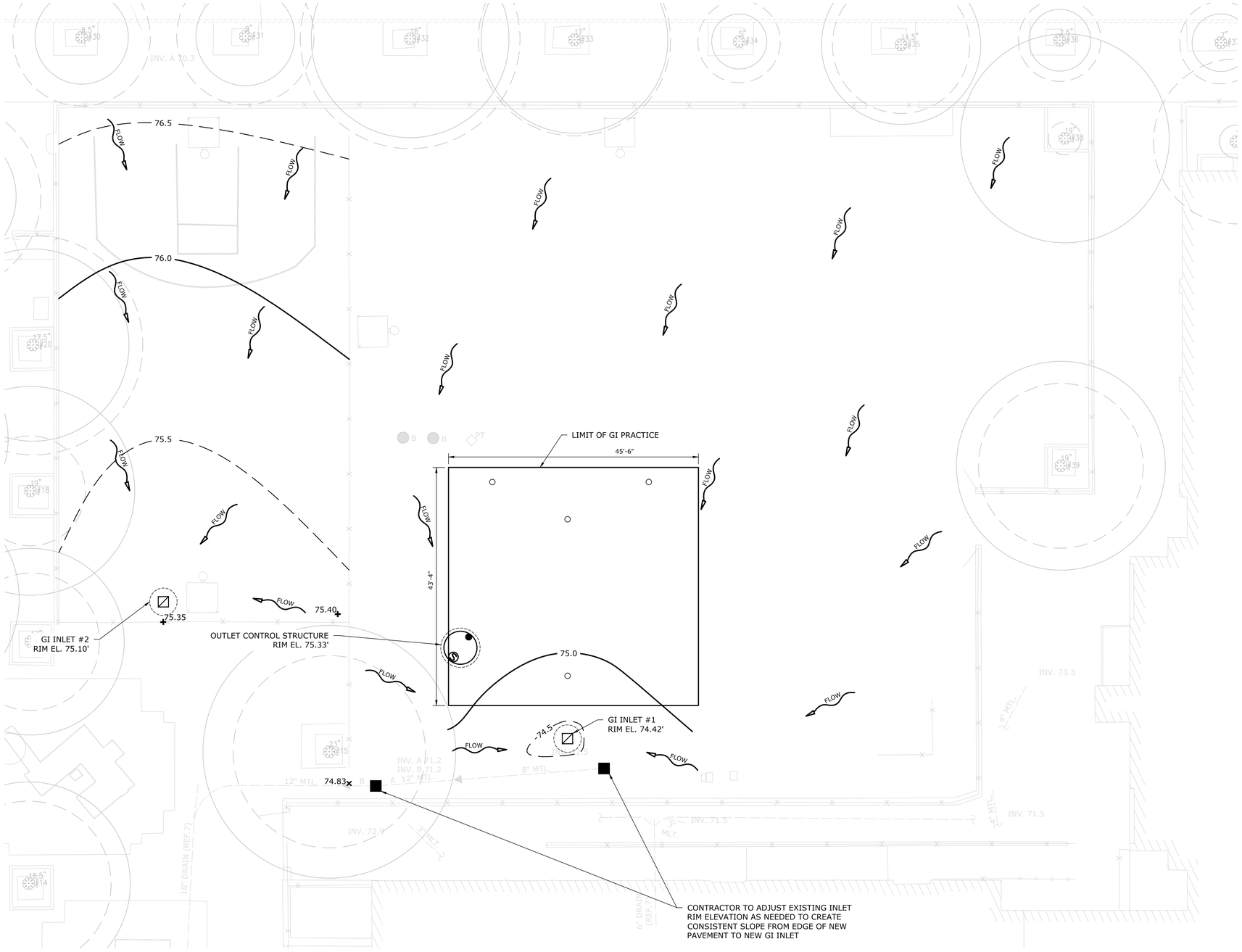
LOT 1

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
FRANCIS LEWIS PLAYGROUND
LOCATED BETWEEN FRANCIS LEWIS AVE, 39TH AVE, AND 42ND AVE, QUEENS, NY

DRAWING TITLE
MATERIALS PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
JM	JM	KT

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 10'	C201	GI-CONS-6
	DATE NOV 2026		SHEET No. 16 OF 21 SHEETS



LEGEND

GREEN INFRASTRUCTURE PRACTICE	
EX. MAJOR CONTOUR	76.0
EX. MINOR CONTOUR	76.0
EX. SPOT ELEVATION	×76.00
PROP. MAJOR CONTOUR	76.00
PROP. MINOR CONTOUR	76.0
PROP. SPOT ELEVATION	76.00
FLOW DIRECTION	FLOW
OUTLET CONTROL STRUCTURE	
GI INLET	
SOLID COVER	

5 0 5 10

SCALE: 1" = 10'

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NO.	DATE	ISSUED FOR	BY

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BLOCK 6203

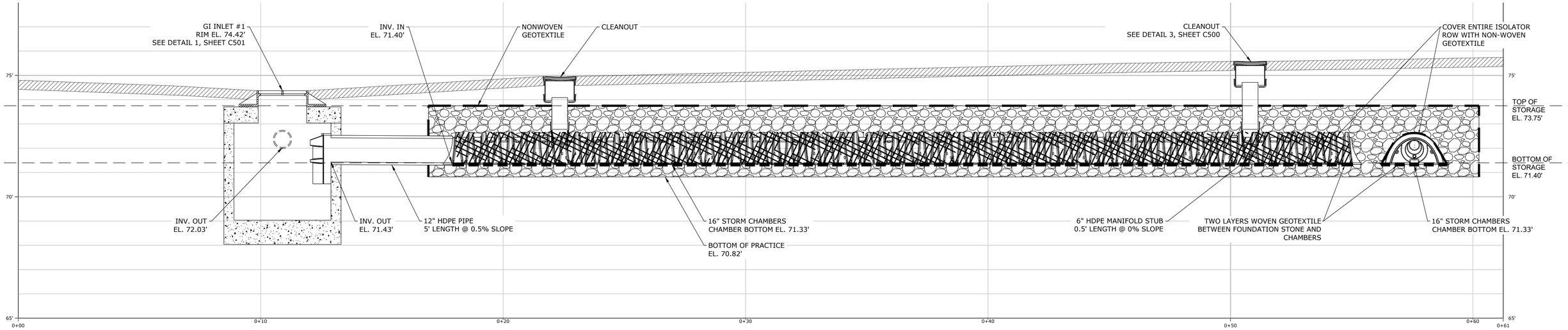
LOT 1

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
FRANCIS LEWIS PLAYGROUND
LOCATED BETWEEN FRANCIS LEWIS AVE, 39TH AVE, AND 42ND AVE, QUEENS, NY

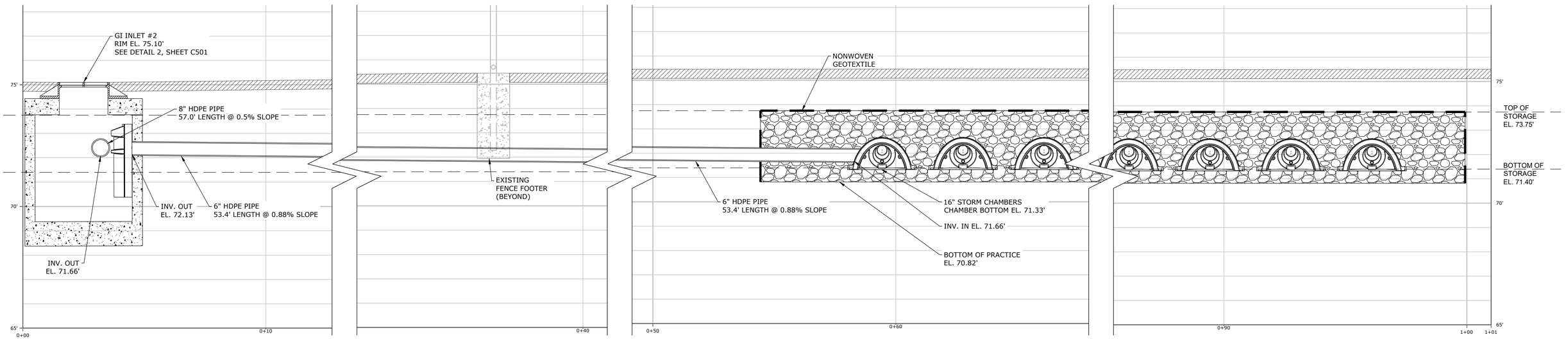
DRAWING TITLE
GRADING PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
JM	JM	AR

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 10'	C202	GI-CONS-6
	DATE NOV 2026		SHEET No. 17 OF 21 SHEETS



PROFILE A-A: GI INLET #1 CONNECTION TO CHAMBERS
SCALE: 1" = 2'



PROFILE B-B: GI INLET #2 CONNECTION TO CHAMBERS
SCALE: 1" = 2'

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BLOCK
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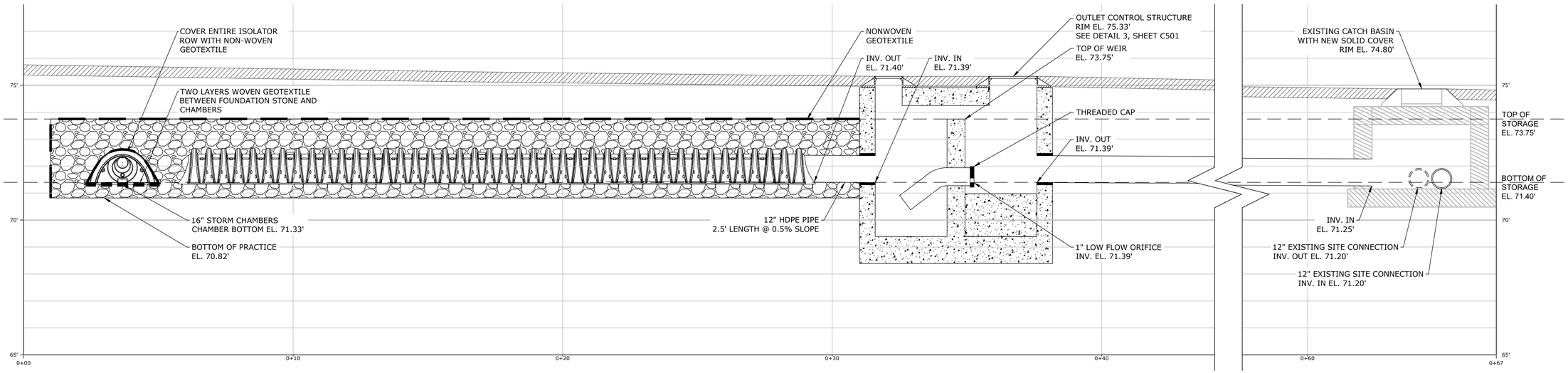
LOT
1

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
FRANCIS LEWIS PLAYGROUND
LOCATED BETWEEN FRANCIS LEWIS AVE, 39TH AVE, AND 42ND AVE, QUEENS, NY

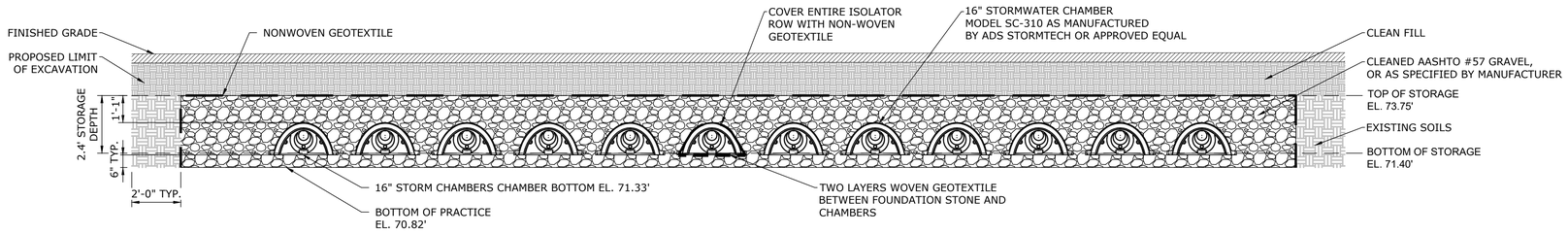
DRAWING TITLE
SECTIONS AND PROFILES - 1

DESIGNED BY	DRAWN BY	CHECKED BY
JM	JM	KT

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 2'	C300	GI-CONS-6
	DATE NOV 2026		SHEET No. 18 OF 21 SHEETS



PROFILE C-C: GI INLET #2 CHAMBER CONNECTION TO OUTLET CONTROL STRUCTURE TO EXISTING CATCH BASIN
SCALE: 1" = 2'



CROSS SECTION 1
SCALE: 1" = 3'

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NO.	DATE	ISSUED FOR	BY

SEAL

BLOCK 6203

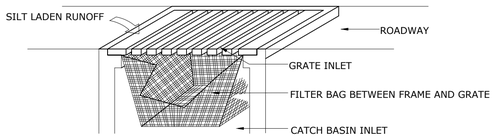
LOT 1

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
FRANCIS LEWIS PLAYGROUND
LOCATED BETWEEN FRANCIS LEWIS AVE, 39TH AVE, AND 42ND AVE, QUEENS, NY

DRAWING TITLE
SECTIONS AND PROFILES - 2

DESIGNED BY	DRAWN BY	CHECKED BY
JM	JM	KT

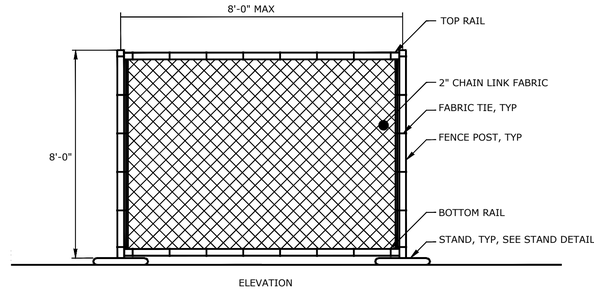
B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 2'	C301	GI-CONS-6
	DATE NOV 2026		SHEET No. 19 OF 21 SHEETS



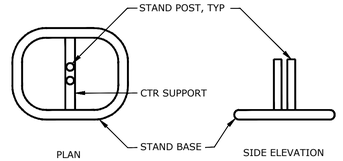
NOTE:
1. IN PAVED AREAS, USE FILTER BAG FOR INLET PROTECTION (NO MESH, BOX STONE REQUIRED).
2. FILTER BAG SHALL BE MANUFACTURED FROM A WOVEN POLYPROPYLENE GEOTEXTILE AND SEWN BY A DOUBLE NEEDLE MACHINE USING A HIGH STRENGTH NYLON THREAD.
3. BAG SHALL BE SILTSACK® BY ACF ENVIRONMENTAL, OR EQUAL, AS APPROVED BY THE ENGINEER.

MAINTENANCE REQUIREMENTS:
1. INSPECT GRATE AND BAG ON A WEEKLY BASIS AND AFTER EACH RAINFALL EVENT PRODUCING $\frac{1}{2}$ INCH OR MORE OR RAIN. ANY DEBRIS OR SEDIMENT VISIBLE SHALL BE REMOVED IMMEDIATELY.
2. DAMAGE TO THE BAG SHALL BE REPAIRED IMMEDIATELY.
3. WHEN THE RESTRAINT CORD IS NO LONGER VISIBLE, THE BAG IS FULL AND SHOULD BE EMPTIED.
4. USE 1" DIAMETER REBAR TO SLIDE THROUGH THE LIFTING LOOPS/POCKETS ON EACH SIDE OF THE BAG TO FACILITATE LIFTING.
5. REMOVE SEDIMENT FROM BAG AND DISPOSE OF OFF-SITE IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS.

1 TEMPORARY INLET PROTECTION
SCALE:NTS



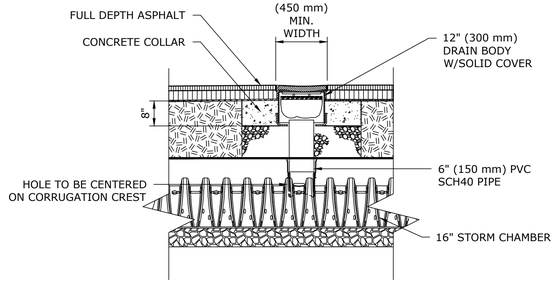
ELEVATION



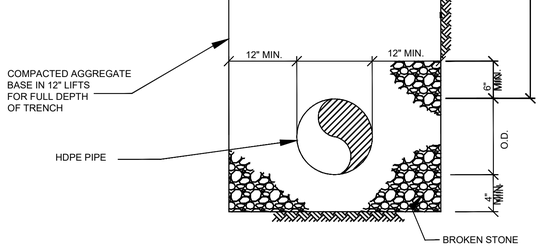
STAND DETAIL

NOTES:
1. CONTRACTOR SHALL PROVIDE, AT A MINIMUM, TEMPORARY FENCE WITH DIMENSIONS AND APPURTENANCES AS SHOWN.
2. ALL OTHER DIMENSIONS, MATERIAL SIZES, MATERIAL TYPES, ACCESSORIES, ETC PER MANUFACTURER.
3. TEMPORARY FENCE SHALL REMAIN IN PLACE UNTIL CONCLUSION OF CONSTRUCTION
4. SAND BAGS SHALL BE USED FOR POST SUPPORT IN ACCORDANCE WITH THE SPECIFICATIONS.

2 TEMPORARY CONSTRUCTION FENCE
SCALE:NTS



3 CLEANOUT
SCALE:1" = 2'



NOTE:
1. TRENCHING WITHIN EXISTING ASPHALT PAVEMENT REQUIRES FULL DEPTH ASPHALT PAVEMENT REPLACEMENT AND RESTORATION

4 TRENCH RESTORATION
SCALE:NTS

Environmental Protection
CITY OF NEW YORK
ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis

NYC Parks
CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

SEAL

BLOCK 6203

LOT 1

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
FRANCIS LEWIS PLAYGROUND
LOCATED BETWEEN FRANCIS LEWIS AVE, 39TH AVE, AND 42ND AVE, QUEENS, NY

DRAWING TITLE
SITE CIVIL AND STORMCHAMBER DETAILS

DESIGNED BY	DRAWN BY	CHECKED BY
JM	JM	KT

B-SCAN

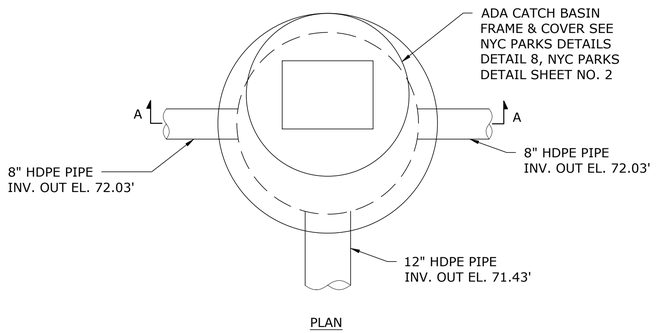
SCALE: AS SHOWN

DRAWING NO.: C500

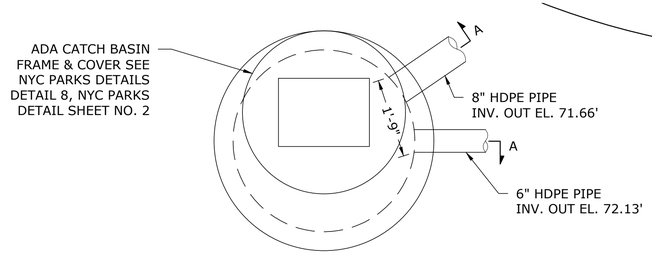
DATE: NOV 2026

CONTRACT NO.: GI-CONS-6

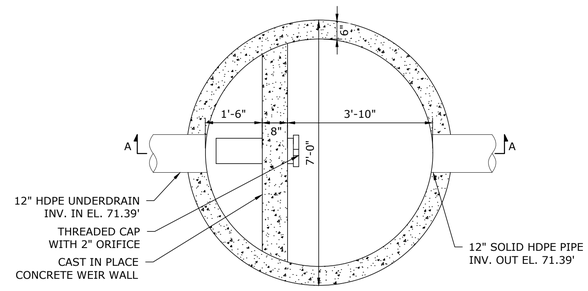
SHEET No. 20 OF 21 SHEETS



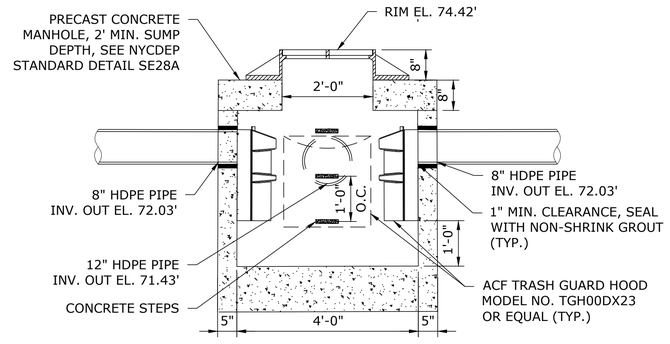
PLAN



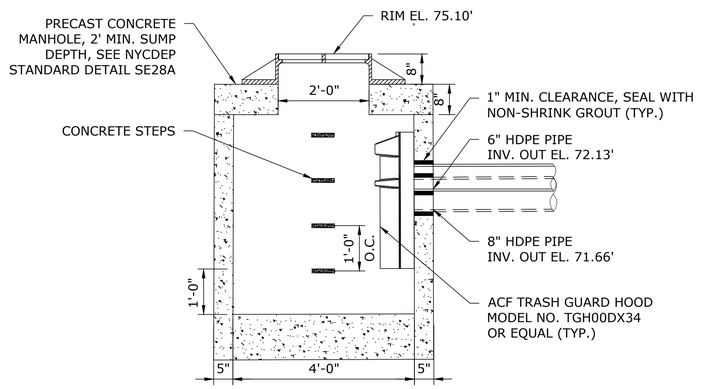
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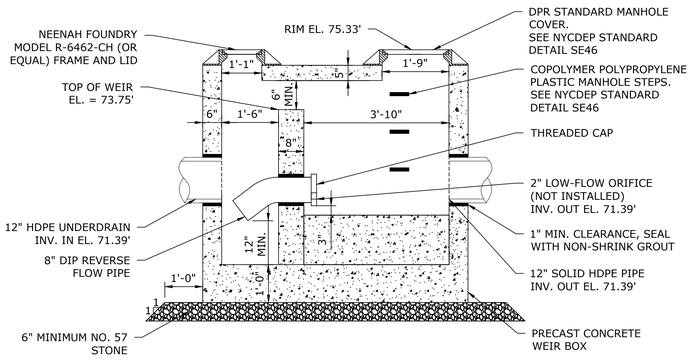
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SECTION A-A



SECTION A-A

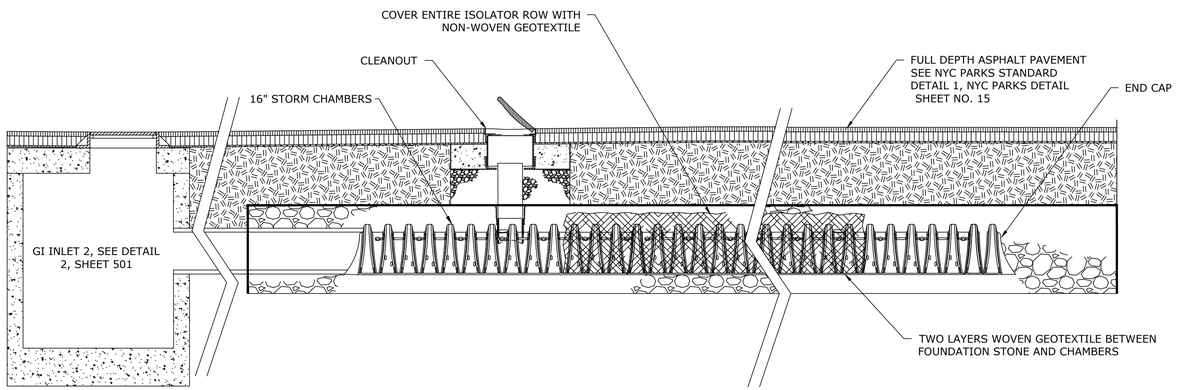


SECTION A-A

1 GI INLET #1
SCALE :1" = 2'

2 GI INLET #2
SCALE :1" = 2'

3 OUTLET CONTROL STRUCTURE
SCALE: 1" = 2'



4 ISOLATOR ROW
SCALE:1" = 2'

NYC Environmental Protection

CITY OF NEW YORK
ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis

NYC Parks

CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

SEAL

BLOCK
6203

LOT
1

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE DESIGN
FRANCIS LEWIS PLAYGROUND
LOCATED BETWEEN FRANCIS LEWIS AVE, 39TH AVE, AND 42ND AVE, QUEENS, NY

DRAWING TITLE
SITE CIVIL AND STORMCHAMBER DETAILS

DESIGNED BY	DRAWN BY	CHECKED BY
JM	JM	KT

B-SCAN

SCALE: AS SHOWN

DRAWING NO.: C501

DATE: NOV 2026

CONTRACT NO.: GI-CONS-6

SHEET No. 21 OF 21 SHEETS

Hazen

THE FOLLOWING SHEET SETS WERE DEVELOPED BY HAZEN.
ANY DETAILS WITHIN THIS SHEET SET ARE ONLY APPLICABLE TO THE SITES DESIGNED BY HAZEN, AS LISTED BELOW:

- CUNNINGHAM 196TH PLACE PARKING
- JOSEPH AUSTIN PLAYGROUND
- LITCHFIELD VILLA

NYC Environmental Protection
CITY OF NEW YORK
ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis

NYC Parks
CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

SEAL
STATE OF NEW YORK · DEEPU P. MATHOTHU · 075926 · LICENSED PROFESSIONAL ENGINEER
Hazen

BLOCK

LOT

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE

DRAWING TITLE
DIVIDER SHEET - HAZEN

DESIGNED BY	DRAWN BY	CHECKED BY
J. BRENNAN	D. THOMAS	A. EASON

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	N/A	O-4	GI-CONS-6
	DATE NOV 2026		SHEET No. 96 OF 144 SHEETS

GENERAL NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK AND VERIFY ALL SITE CONDITIONS, BOTH ABOVE AND BELOW THE SURFACE, PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN INFORMATION SHOWN ON THE DRAWINGS AND ACTUAL FIELD CONDITIONS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING, PRIOR TO THE COMMENCEMENT OF WORK.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS.
3. WORK PERFORMED UNDER THIS CONTRACT SHALL COMPLY WITH APPLICABLE FEDERAL, STATE, AND LOCAL SAFETY AND OCCUPATIONAL HEALTH LAWS AND REGULATIONS. WHERE THE REQUIREMENTS OF THE SPECIFICATIONS, APPLICABLE LAWS, CRITERIA, ORDINANCES, REGULATIONS, AND REFERENCED DOCUMENTS VARY, THE OWNER SHALL BE CONTACTED AND WILL PROVIDE AN INTERPRETATION FOR THE CONTRACTOR.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THEIR WORK AND NEWLY INSTALLED WORK, AND PROVIDE APPROPRIATE BARRIERS AND SAFETY GUARD RAILS, AS REQUIRED.
5. ALL STREETS, ROADWAYS, AND ACCESS AREAS SHALL REMAIN UNOBSTRUCTED DURING CONSTRUCTION. THE NEED TO TEMPORARILY BLOCK OR CLOSE OFF THESE AREAS SHALL BE COORDINATED WITH THE ENGINEER AND THE DEPARTMENT OF ENVIRONMENTAL PROTECTION (NYCDEP). ADDITIONAL COORDINATION AND PERMITTING WITH NYC DOT AND/OR NYPD MAY BE REQUIRED AND IS THE RESPONSIBILITY OF THE CONTRACTOR, PER GENERAL NOTE 9.
6. ALL AREAS OF THE SITE IMPACTED BY TEMPORARY FACILITIES SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER, BY THE CONTRACTOR, AS DETERMINED BY THE ENGINEER.
7. THE CONTRACTOR SHALL MAINTAIN, AT THE JOB SITE, ONE SET OF FULL-SIZE CONTRACT DRAWINGS MARKED TO SHOW ANY DEVIATIONS THAT HAVE BEEN MADE FROM THE CONTRACT DRAWINGS, INCLUDING BURIED OR CONCEALED CONSTRUCTION AND UTILITY FEATURES REVEALED DURING THE COURSE OF CONSTRUCTION. THESE DRAWINGS SHALL BE AVAILABLE FOR REVIEW BY THE ENGINEER AT ALL TIMES. UPON COMPLETION OF THE INSTALLATION OF NEW WORK THE CONTRACTOR SHALL TURN OVER TO OWNER AND ENGINEER ONE (1) SET OF REPRODUCIBLE AS-BUILT DRAWINGS AND ONE (1) SET OF PRINTS OF AS-BUILT DRAWINGS INCLUDING ALL APPROVED FIELD CHANGES AND DESIGN DEVIATIONS PRIOR TO REQUEST FOR FINAL PAYMENT.
8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE DEPARTMENT OF PARKS AND RECREATION (NYCDPR) DETAILS BEING USED FOR CONSTRUCTION ARE IN THE MOST RECENT VERSION ISSUED.
9. THE CONTRACTOR SHALL FILE PLANS WITH GOVERNING LOCAL AND STATE AUTHORITIES HAVING JURISDICTION AND SHALL SECURE ALL PERMITS AND PAY ALL FEES REQUIRED FOR INSTALLATION OF THEIR WORK, UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR ANY SPECIAL INSPECTIONS REQUIRED, INCLUDING ANY ASSOCIATED COSTS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE APPROPRIATE AGENCIES PRIOR TO COMMENCING WORK.
10. THE CONTRACTOR SHALL INDEMNIFY NYCDEP, THEIR REPRESENTATIVES, AND THE ENGINEER FROM ANY CLAIMS OR SUITS RESULTING FROM NEGLIGENCE ON THE PART OF THE CONTRACTOR FOR FAILING TO EXECUTE THEIR WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
11. WORK SHALL BE PERFORMED BY LICENSED CONTRACTORS AND WORKERS EXPERIENCED IN THE TRADE HAVING JURISDICTION. WORK SHALL BE SUPERVISED AT ALL TIMES.
12. ANY DEVIATION OR CHANGE IN DESIGN SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER. WORK INSTALLED WITHOUT PRIOR APPROVAL OF THE ENGINEER OR NYCDEP OR FOUND TO BE DEFECTIVE OR OF POOR QUALITY SHALL BE REPLACED BY THE CONTRACTOR AT THEIR OWN EXPENSE.
13. ALL CONSTRUCTION WORK SHALL BE CONFINED TO THE CONTRACT LIMIT LINE INDICATED ON THE DRAWINGS.
14. ALL WORK SHALL BE PERFORMED DURING NORMAL WORKING HOURS: 9:00 A.M. TO 6:00 P.M. MONDAY THROUGH FRIDAY EXCEPT LEGAL HOLIDAYS OR FOR EMERGENCY REPAIRS, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
15. NO WORK SHALL OCCUR DURING STATE TESTING UNLESS AUTHORIZED IN BY A SCHOOL REPRESENTATIVE A MINIMUM OF TWO WEEKS IN ADVANCE.
16. WORK AREA SHALL BE LEFT BROOM CLEAN AT THE END OF EACH DAY. DISCARDED AND DEMOLISHED MATERIAL AND RUBBISH SHALL BE REMOVED FROM PREMISES DAILY AND DISPOSED IN A LEGAL AND APPROVED MANNER.
17. ALL WORK SHOWN ON ALL DRAWINGS IS NEW UNLESS OTHERWISE NOTED.
18. THE CONTRACTOR SHALL COORDINATE WITH NYCDEP THE SUPPLY OF TEMPORARY POWER, POTABLE WATER, AND LIGHTING, AS REQUIRED TO PERFORM THE WORK. OBTAINING AND PAYING FOR SUCH TEMPORARY UTILITIES ARE THE CONTRACTOR'S RESPONSIBILITY.
19. STAGING AREA TO BE DESIGNATED PRIOR TO MOBILIZATION AND TO BE APPROVED BY THE ENGINEER AND NYCDEP.
20. CONTRACTOR SHALL COORDINATE AND SCHEDULE CONSTRUCTION ACTIVITIES WITH SITE ACTIVITIES, AS TO NOT INTERFERE WITH NORMAL SITE OPERATION, AND AS REQUIRED TO NOT IMPEDE THE PROGRESS OF RELATED PROJECT WORK.
21. COORDINATION OF ALL WORK UNDER THIS CONTRACT SHALL BE MAINTAINED TO ENSURE THE QUALITY AND TIMELY COMPLETION OF THE WORK.
22. THE CONTRACTOR SHALL PROVIDE TEMPORARY SHEETING AND BRACING IN ALL TRENCHES OR EXCAVATIONS FOR STRUCTURES, WHERE NECESSARY FOR THE PROPER PROTECTION OF PERSONS OR PROPERTY. WHERE THE DEPTH OF EXCAVATION EXCEEDS FIVE (5) FEET, SHEETING AND NECESSARY BRACING MUST BE INSTALLED FOR THE DEPTH EXCEEDING FIVE (5) FEET AND WILL BE PAID FOR UNDER TEMPORARY SHEETING. BENCHED EXCAVATION MAY BE USED TO REDUCE THE AMOUNT OF SHEETING REQUIRED. ALL SHORING WORK SHALL MEET OR EXCEED THE REQUIREMENTS OF THE NEW YORK STATE DEPARTMENT OF LABOR, INDUSTRIAL CODE RULE 23 AND TITLE 29 CODE OF FEDERAL REGULATIONS PART 1926, SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION (OSHA). THE TYPE OF SHEETING AND BRACING SHALL BE SATISFACTORY TO THE ENGINEER AND SUBJECT TO THEIR APPROVAL, BUT THE APPROVAL OF THE ENGINEER OF A METHOD TO BE USED DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY FOR PROTECTION AND SAFETY. WHEN SHEETING IS USED IN TRENCHES OR EXCAVATIONS FOR STRUCTURES OF LESS THAN FIVE (5) FEET IN DEPTH, THE COST OF SUCH SHEETING AND BRACING, UNLESS ORDERED LEFT IN PLACE, SHALL BE INCLUDED IN THE PRICE BID FOR UNCLASSIFIED EXCAVATION, AND PAYMENT WILL BE MADE FOR SUCH EXCAVATION AS SHOWN ON THE DRAWINGS.
23. THE CONTRACTOR SHALL PERFORM ALL CUTTING AND PATCHING REQUIRED TO COMPLETE THE WORK OR TO MAKE ITS PARTS FIT TOGETHER PROPERLY WITHOUT COMPROMISING THE QUALITY OF THE WORK.
24. ADDITIONAL NOTES THAT ARE APPLICABLE TO THIS PROJECT MAY BE FOUND THROUGHOUT THE CONTRACT DRAWINGS.
25. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EXISTING STORMWATER FLOW THROUGH THE SYSTEM THROUGHOUT DURATION OF THE WORK. THE CONTRACTOR SHALL NOT DIRECT FLOW DIRECTLY TO THE GREEN INFRASTRUCTURE PRACTICE PRIOR TO COMPLETION OF THE WORK.

REMOVAL NOTES

1. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS GOVERNING THIS WORK. THE CONTRACTOR SHALL COORDINATE DEMOLITION WITH APPLICABLE AGENCIES, UTILITY COMPANIES, AND/OR SUB-CONTRACTORS.
2. IT IS MANDATORY, AS PER NYS INDUSTRIAL CODE RULE 53, FOR THE CONTRACTOR TO NOTIFY NEW YORK 811, 60 KNICKERBOCKER AVENUE, BOHEMIA NY 11716, TEL. 800.272.4480 PRIOR TO THE START OF EXCAVATION. THE ONE-CALL CENTER IS ALWAYS OPEN. THE ONE-CALL CENTER WILL THEN NOTIFY MEMBER FIRMS WITH OPERATIONS IN THE SITE AREA OF THE CONTRACTOR'S PENDING EXCAVATION OPERATIONS. THE CONTRACTOR WILL RECEIVE A NOTIFICATION TICKET FROM THE ONE-CALL CENTER WHICH SHOULD BE PRESENTED TO THE ENGINEER AS PROOF OF THE CALL. THERE IS NO CHARGE FOR THIS SERVICE. THIS PROCESS ENSURES THAT UTILITY SERVICE LINES ARE PROPERLY MARKED PRIOR TO EXCAVATION TO MINIMIZE FACILITY DAMAGE, ON THE JOB INJURIES, AND CONTRACTOR'S LIABILITY. IN ADDITION, ALL UNDERGROUND FACILITY OPERATORS IN THE AREA WHO ARE NOT ONE-CALL MEMBERS SHALL BE NOTIFIED NOT LESS THAN TWO (2) FULL BUSINESS DAYS AND NOT MORE THAN TEN (10) FULL BUSINESS DAYS BEFORE COMMENCING EXCAVATION.
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY DAMAGE AND/OR RESTORE ANY INTERRUPTION TO ANY UTILITY SERVICE THAT MAY BE CAUSED BY THE CONTRACTOR'S CONSTRUCTION OR EQUIPMENT, AT THE CONTRACTOR'S EXPENSE, WITH NO ADDITIONAL EXPENSE TO THE CITY OF NEW YORK OR UTILITY COMPANY.
4. THE CONTRACTOR IS TO USE CARE DURING CONSTRUCTION TO AVOID DISTURBING OR DAMAGING ADJACENT ABOVE-GRADE OR SUBGRADE STRUCTURES, FACILITIES, CURBS, PAVEMENTS, AND PERIMETER FENCING. ANY DAMAGE RESULTING FROM THIS WORK WILL BE RESTORED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
5. WHERE NEW CONSTRUCTION ABUTS EXISTING PAVEMENTS, CURBS, OR WALLS, THE EXISTING MATERIALS SHALL BE CLEANLY SAWCUT TO PROVIDE A CLEAN, NEAT MATCH AND A SMOOTH, FLUSH TRANSITION, AS DIRECTED BY THE ENGINEER. ALL SAWCUTTING SHALL BE DONE TO NEAT, STRAIGHT, AND ACCURATE LINES. CONTRACTOR SHALL PROVIDE EXPANSION JOINTS (TIE ROD AND/OR SLIP JOINT) WHERE OLD AND NEW CURBS MEET.
6. THE CONTRACTOR SHALL DISPOSE OF ALL ITEMS AND MATERIALS REMOVED AND NOT SALVAGED, INCLUDING ALL EXCAVATED MATERIAL, OFF-SITE AND IN A LEGAL MANNER. THE CONTRACTOR SHALL REMOVE, EXCAVATE, AND DISPOSE OF ALL MATERIALS ACCORDING TO CONTRACT SPECIFICATIONS.
7. ALL EXISTING PIPING TO BE MAINTAINED EXCEPT FOR WITHIN 3 FEET OF PROPOSED DRAINAGE STRUCTURES AND AS SHOWN. IF EXISTING PIPING BEYOND 3 FEET FROM THE PROPOSED STRUCTURES IS OBSERVED TO BE DAMAGED AT NO FAULT OF THE CONTRACTOR, THE ENGINEER SHALL PROVIDE DIRECTION AS TO EXTENTS OF REPLACEMENT.
8. THE CONTRACTOR SHALL TAKE EXTREME CARE TO PROTECT THE ROOT SYSTEMS OF EXISTING TREES. BULK MATERIAL, EQUIPMENT, OR VEHICLES SHALL NOT BE STOCKPILED OR PARKED WITHIN THE TREE PROTECTION ZONE.

LAYOUT & MATERIAL NOTES

1. NO CHANGES SHALL BE MADE TO THE DESIGN OR LAYOUT WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER. LAYOUT THE WORK AS DIMENSIONED ON THE PLANS. WRITTEN DIMENSIONS SHALL GOVERN. DO NOT SCALE DISTANCES.
2. CONTRACTOR SHALL STAKE LOCATION OF ALL GREEN INFRASTRUCTURE PRACTICES FOR APPROVAL BY THE ENGINEER PRIOR TO EXCAVATION WORK.
3. CONTRACTOR SHALL LAYOUT IN THE FIELD THE ALIGNMENT AT ALL PATHS, PAVEMENTS, CURBLINES FOR REVIEW BY THE ENGINEER PRIOR TO THE START OF WORK. ADJUSTMENTS MAY BE MADE ONLY AS DIRECTED BY THE ENGINEER. CONTRACTOR MAY NOT PROCEED WITH CONSTRUCTION OF IMPROVEMENTS UNTIL THEY HAVE RECEIVED THE FINAL APPROVAL OF THE LAYOUT FROM THE ENGINEER.
4. ALL NEW PAVEMENTS AND CURBS AND EXISTING PAVEMENTS AND CURBS TO REMAIN SHALL MEET IN SMOOTH FLUSH CONDITION UNLESS NOTED OTHERWISE.
5. NEW CURBS, WALLS, AND PAVEMENTS SHALL BE BUILT TO A SMOOTH EVEN FINISH WITH A CONSISTENT TOP AND PROFILE WITHOUT WAVES OR IRREGULARITIES. ANY WORK NOT MEETING THIS QUALITY STANDARD SHALL BE RECONSTRUCTED AT THE CONTRACTOR'S EXPENSE.
6. THE CONTRACTOR SHALL EXERCISE CARE DURING EXCAVATION OPERATIONS TO AVOID DISTURBING ADJACENT FACILITIES, SUB GRADE STRUCTURES AND TREES. ALL DAMAGE RESULTING FROM THE CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE REPAIRED AT NO EXPENSE TO THE CITY AND THE AGENCY. ALL REPAIR WORK SHALL BE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
7. IN AREAS WHERE NEW PAVEMENTS FALL WITHIN THE TREE PROTECTION ZONE OF EXISTING TREES, THE CONTRACTOR SHALL MINIMIZE EXCAVATIONS AT TREE ROOTS BY REDUCING THE AMOUNT OF FOUNDATION MATERIAL AS DIRECTED BY THE ENGINEER.
8. CONTRACTOR SHALL REFER TO NYCDEP'S NYC GREEN INFRASTRUCTURE ON-SITE DESIGN MANUAL (MAY 2019) FOR THE CONSTRUCTION OF ALL GREEN INFRASTRUCTURE PRACTICES.

TREE PROTECTION NOTES

1. NO LAND DISTURBANCE, DEMOLITION, OR CONSTRUCTION ACTIVITIES SHALL BEGIN UNTIL ALL TREE PROTECTION MEASURES HAVE BEEN INSTALLED AS SHOWN ON THE CONTRACT DRAWINGS.
2. CONSTRUCTION ACCESS ROUTE IS DIAGRAMMATIC. FINAL ROUTE SHALL BE ESTABLISHED ON SITE AND APPROVED BY THE RESIDENT ENGINEER, IN CONSULTATION WITH THE BOROUGH FORESTER OR THEIR REPRESENTATIVE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND PRESERVATION OF ALL EXISTING TREES NOT LISTED FOR REMOVAL THAT ARE LOCATED COMPLETELY OR PARTIALLY WITHIN THE CONTRACT LIMIT LINE.
4. THE CONTRACTOR SHALL NOTIFY THE BOROUGH FORESTER A MINIMUM OF 48 HOURS IN ADVANCE OF ANY WORK ON OR IMPACTING EXISTING TREES, INCLUDING BUT NOT LIMITED TO TREE PROTECTION, PRUNING, TREE REMOVAL, EXCAVATION WITHIN TREE PROTECTION ZONES, DECOMPACTION, TOPSOIL, AND PLANTING WORK.
5. THE TREE PROTECTION ZONE (TPZ) SHALL CONSIST OF THE CRITICAL ROOT ZONE AND/OR THE CANOPY DRIPLINE; WHICHEVER EXTENT IS GREATER.
6. THE CONTRACTOR SHALL TAKE EXTREME CARE TO PROTECT THE ROOT SYSTEMS OF EXISTING TREES. MATERIAL, EQUIPMENT, OR VEHICLES SHALL NOT BE STOCKPILED OR PARKED WITHIN THE TPZ OF ANY TREE COMPLETELY OR PARTIALLY WITHIN THE CONTRACT LIMIT LINE TO MINIMIZE SURFACE AND SUBSURFACE ROOT AND SOIL COMPACTION. IF STOCKPILING OCCURS WITHIN THE TPZ, A STOP WORK ORDER SHALL BE ISSUED IMMEDIATELY, AND WORK SHALL NOT RE-COMMENCE UNTIL ALL STOCKPILED MATERIAL IS REMOVED FROM THE TPZ AND MITIGATION MEASURES ARE PERFORMED TO THE SATISFACTION OF THE RESIDENT ENGINEER IN CONSULTATION WITH THE BOROUGH FORESTER OR THEIR REPRESENTATIVE.
7. IF DIRECTED, THE TPZ SHALL BE COVERED WITH WOOD CHIPS TO A DEPTH OF AT LEAST SIX (6) INCHES, WITH PLYWOOD OR GROUND PROTECTION MATS, OR A COMBINATION THEREOF. SUCH COVERING SHALL BE MAINTAINED FOR THE DURATION OF THE CONTRACT AND IS NOT TO BE REMOVED UNTIL DIRECTED BY THE BOROUGH FORESTER OR THEIR REPRESENTATIVE. REMOVAL SHALL BE BY HAND OR AS SPECIFIED BY THE BOROUGH FORESTER OR THEIR REPRESENTATIVE (ITEM "PROTECT EXIST. TREE ROOTS W/ WOOD CHIPS 6" DEPTH" AND "PROTECT EXIST. TREE ROOTS W/ PLYWOOD").
8. TEMPORARY WOODEN TREE GUARDS WITH WRAP FOR INDIVIDUAL TREES, TEMPORARY WOODEN TREE GUARD FOR GROVES, AND TEMPORARY SNOW FENCE BOUNDARY SHALL BE MAINTAINED FOR THE DURATION OF THE CONTRACT AND ARE NOT TO BE REMOVED UNTIL DIRECTED BY THE BOROUGH FORESTER OR THEIR REPRESENTATIVE.
9. ALL TREES COMPLETELY OR PARTIALLY WITHIN THE CONTRACT LIMIT LINE ARE TO RECEIVE AT LEAST ONE (1) INCH (THE EQUIVALENT OF 750 GALLONS OF WATER PER 1,000 SQUARE FEET OF TREE PROTECTION ZONE) OF WATER PER WEEK BETWEEN THE MONTHS OF MARCH AND OCTOBER. IF RAINWATER IN ANY GIVEN WEEK IS BELOW THIS QUANTITY, THE CONTRACTOR MUST SUPPLEMENT THE AMOUNT RECEIVED BY A METHOD APPROVED BY THE BOROUGH FORESTER OR THEIR REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
10. ALL TREE PRUNING AND TREE REMOVAL IS TO BE PERFORMED IN ACCORDANCE WITH ANSI A300 STANDARDS BY AN ARBORIST HOLDING CERTIFICATION FROM THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) OR EQUIVALENT EDUCATION AND EXPERIENCE. ANSI PRUNING TYPES SPECIFIED ON TREE PROTECTION SCHEDULE AND TREE DIAMETERS AT BREAST HEIGHT ARE TO BE CONFIRMED BY THE BOROUGH FORESTER OR THEIR REPRESENTATIVE BEFORE PRUNING WORK IS PERFORMED.
11. THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN REMOVING CONCRETE OR ASPHALT WITHIN THE DRIPLINE OF EXISTING TREES - LIFTING RATHER THAN DRAGGING PIECES OF PAVING. TOOLS FOR THIS ACTIVITY SHALL BE APPROVED BY THE BOROUGH FORESTER OR THEIR REPRESENTATIVE PRIOR TO THE START OF EXCAVATION.
12. ALL EXCAVATION AND PLANT INSTALLATION WITHIN THE TPZ SHALL BE PERFORMED BY HAND OR PNEUMATICALLY, WITH MINIMAL SOIL DISTURBANCE, AND UNDER THE SUPERVISION OF THE BOROUGH FORESTER OR THEIR REPRESENTATIVE. PLANTS SHALL NOT BE PLACED WITHIN THREE (3) FEET OF THE TREE TRUNK UNLESS APPROVED.
13. NO ROOTS SHALL BE CUT WITHOUT THE WRITTEN AUTHORIZATION OF THE BOROUGH FORESTER OR THEIR REPRESENTATIVE.
14. EXCAVATED AREAS WITHIN THE TPZ SHALL BE BACKFILLED IMMEDIATELY OR ROOTS SHALL BE KEPT CONSTANTLY MOIST WITH BURLAP COVERED WITH WHITE PLASTIC AND CHECKED A MINIMUM OF TWO (2) TIMES A DAY, ONCE IN THE MORNING AND ONCE IN THE AFTERNOON, FOR A MAXIMUM OF FORTY-EIGHT (48) HOURS, UNTIL BACKFILL IS COMPLETE. IF DIRECTED, SOAKER HOSES SHALL BE INSTALLED TO FACILITATE PROPERLY MOIST CONDITIONS. NO POOLING OF OR CONTINUOUS RUNNING WATER SHALL OCCUR WITHIN THE TPZ OTHER THAN THAT DURING THE IRRIGATION PROCESS. IF ROOTS ARE TO BE EXPOSED FOR A PERIOD GREATER THAN 48-HOURS, THE EXPOSED AREA SHALL BE COVERED WITH AT LEAST 6-INCHES OF MULCH AND MAINTAINED DURING THE COURSE OF CONSTRUCTION UNTIL THE AREA CAN BE PROPERLY BACKFILLED.
15. WHEN A TREE PROTECTION DEFICIENCY, AS DETERMINED BY THE BOROUGH FORESTER OR THEIR REPRESENTATIVE, IS IDENTIFIED, IT MUST BE REMEDIED WITHIN 24-HOURS OF NOTIFICATION BY THE AGENCY. FAILURE TO CORRECT THE DEFICIENCY WITHIN THIS TIMEFRAME WILL RESULT IN A STOP WORK ORDER, LIQUIDATED DAMAGES, OR BOTH.
16. ANY DAMAGE TO EXISTING TREES DURING CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL MITIGATE SUCH DAMAGE AS DIRECTED BY THE BOROUGH FORESTER OR THEIR REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
17. THE CONTRACTOR SHALL BE ASSESSED RESTITUTION, AS SOLELY DETERMINED BY THE DEPARTMENT OF PARKS AND RECREATION (NYCDPR), FOR TREES THAT ARE INJURED, IRREPARABLY DAMAGED, DESTROYED, OR REMOVED WITHOUT AUTHORIZATION.

DRAINAGE NOTES

1. ALL PROPOSED DRAINAGE WORK SHALL BE DONE IN CONFORMANCE WITH THE LATEST STANDARDS OF THE NYCDEP AND THE LATEST STANDARDS OF THE NYCDPR. DISCREPANCIES BETWEEN THE STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
2. ALL EXISTING SEWER MANHOLES TO BE RETAINED WITHIN THE CONTRACT LIMIT LINE SHALL BE ADJUSTED AS NECESSARY, SO THAT THEY WILL BE FLUSH WITH THE FINISHED GRADES AFTER COMPLETION OF THE WORK. ANY OF THESE MANHOLES WHICH HAVE DAMAGED, WORN OR NON-STANDARD FRAMES AND COVERS SHALL BE PROVIDED WITH NEW 27" DIA. CASTINGS IN ACCORDANCE WITH THE LATEST STANDARDS OF NYC PARKS INCLUDING ANY NECESSARY MODIFICATIONS OF THE MANHOLE MASONRY. ANY DAMAGE TO THE MANHOLES CAUSED BY THIS WORK SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR, AS DIRECTED BY THE ENGINEER, AND AT NO COST TO THE CITY.
3. CARE SHALL BE TAKEN NOT TO DAMAGE EXISTING SEWERS DURING CONSTRUCTION. ANY DAMAGE CAUSED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER, AT NO EXTRA COST TO THE CITY.
4. WHERE THE HEIGHT OF AN EXISTING MANHOLE PERMITS MORE THAN ONE BASIN CONNECTION TO BE MADE ON THE SAME WALL, SPECIAL PRECAUTION SHALL BE TAKEN TO PROTECT THE STRUCTURAL INTEGRITY OF THE MANHOLE. THE MINIMUM CLEARANCE BETWEEN THE OUTSIDE WALLS OF ANY TWO BASIN CONNECTIONS OR BETWEEN A BASIN CONNECTION AND A SEWER, VERTICALLY OR HORIZONTALLY, SHALL BE 12 INCHES.
5. THE COST OF RAISING OR LOWERING CITY-OWNED MANHOLES, BASINS AND INLET HEADS TO PROPOSED GRADES WILL BE DEEMED INCLUDED IN THE PRICES BID FOR ALL THE SCHEDULED ITEMS WHEN THE VERTICAL UPWARD MOVEMENT OF ALL HEADS IS TWENTY-FOUR (24) INCHES OR LESS, WHEN THE VERTICAL DOWNWARD MOVEMENT OF MANHOLE HEADS IS SIX (6) INCHES OR LESS AND WHEN THE VERTICAL DOWNWARD MOVEMENT OF BASIN OR INLET HEADS IS THREE (3) INCHES OR LESS, UNLESS OTHERWISE PROVIDED OR DIRECTED, AND WHERE THE ADJUSTMENT IS WITHIN THE BRICK WORK LIMIT. WHEN THE EXISTING STRUCTURE CONSISTS OF A BRICK CHIMNEY OR A CONCRETE ROOF SLAB OR BRICK ON CONCRETE WALLS, THE MAXIMUM ALLOWABLE HEIGHT OF BRICK AFTER ADJUSTMENT SHALL BE TWENTY-FOUR (24) INCHES. ALL OTHER ADJUSTMENTS WILL BE PAID FOR UNDER THE APPROPRIATE MANHOLE, BASIN OR INLET MODIFICATION ITEMS.
6. ALL ABANDONED BASINS, INLETS AND DRAINAGE STRUCTURES AS SHOWN ON THE CONTRACT PLANS ARE TO BE BULK-HEADED AND CUT DOWN TO TWO (2) FEET BELOW THE SUBGRADE AND FILLED WITH COMPACTED CLEAN SAND. BASIN CONNECTIONS NOT REQUIRED SHALL BE PLUGGED AT BOTH ENDS. COST FOR THIS WORK SHALL BE DEEMED INCLUDED IN PRICES BID FOR ALL SCHEDULED ITEMS.
7. CATCH BASINS SHALL NOT, UNDER ANY CIRCUMSTANCES, BE CONNECTED TO SANITARY SEWERS.
8. ALL NEW CATCH BASIN CONNECTIONS SHALL BE CONNECTED TO EXISTING SEWERS AT MANHOLES, WITH DUCTILE IRON PIPE, CLASS 56, WITH INTERNALLY LOCKED "PUSH-ON" JOINTS LAID ON 6" OF BROKEN STONE FOR THE ENTIRE WIDTH OF THE TRENCH AND FOR ONE-HALF THE PIPE DIAMETER. THE BROKEN STONE SHALL BE HARD UNWEATHERED STONE UNIFORMLY GRADED FROM 1/4" TO 3/4"IN DIAMETER. IT SHALL CONFORM TO COMMERCIAL 1/4" TO 3/4" STONE. ALL NEW CATCH BASINS SHALL HAVE A HOOD ON THE OUTLET PIPE.
9. SLOPE ON ALL NEW CATCH BASIN CONNECTIONS SHALL BE A MINIMUM OF 1/2%.
10. CATCH BASINS IN THE PROJECT AREA SHALL BE MAINTAINED OPERABLE AT ALL TIMES. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO AVOID FILLING THE CATCH BASINS WITH DEBRIS WITHIN THE CONTRACT LIMIT LINE DURING THE CONTRACT OPERATIONS. IF, AS A RESULT OF CONSTRUCTION, A FLOODING CONDITION OCCURS, OR IN THE EVENT THE CONTRACTOR'S OPERATIONS DAMAGE OR BLOCK THE DRAINAGE SYSTEM, THE CONTRACTOR SHALL AT THEIR OWN EXPENSE IMMEDIATELY REPAIR OR RESTORE THE DRAINAGE SYSTEM AS DIRECTED BY THE ENGINEER AT NO EXTRA COST TO THE CITY.
11. CONTRACTOR SHALL PROVIDE TEMPORARY MEANS (PIPES, PUMPS, ETC.) TO DRAIN ANY STORMWATER WHICH MAY DEVELOP WITHIN THE CONTRACT LIMIT LINE FOR THE DURATION OF CONSTRUCTION. CONTRACTOR SHALL SUBMIT A DRAINAGE SCHEME WHICH MUST BE APPROVED BY THE ENGINEER PRIOR TO THE START OF EACH CONSTRUCTION STAGE. COST OF THIS WORK WILL BE DEEMED TO HAVE BEEN INCLUDED IN THE PRICE BID FOR ALL SCHEDULED ITEMS.
12. ALL EXISTING SEWERS AND SEWER HOUSE CONNECTIONS SHALL BE CONTINUOUSLY MAINTAINED DURING CONSTRUCTION BY THE CONTRACTOR. IF ANY SEWER OR SEWER HOUSE CONNECTION IS TO BE DISCONNECTED FOR CONSTRUCTION PURPOSES, FLOW SHALL BE MAINTAINED BY FLUMING OR OTHER SUITABLE MEANS AS DIRECTED BY THE ENGINEER AND IN SUCH A MANNER THAT NO BACK-UPS OCCUR. EXISTING SEWERS, HOUSE CONNECTIONS OR OTHER SEWER APPURTENANCES WHICH ARE TO REMAIN, AND WHICH MIGHT BE DISTURBED FOR CONSTRUCTION PURPOSES, SHALL BE RESTORED TO THEIR PRESENT CONDITION AFTER COMPLETION OF THE WORK, AND ANY DAMAGE DONE AS A RESULT OF THE WORK SHALL BE REPAIRED AT NO EXTRA COST TO THE CITY.

EROSION AND SEDIMENT CONTROL NOTES

1. NO LAND DISTURBANCE, DEMOLITION OR CONSTRUCTION ACTIVITIES SHALL BEGIN UNTIL ALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES, INCLUDING, BUT NOT LIMITED TO, SILT FENCING, INLET PROTECTION, AND TREE PROTECTION HAVE BEEN INSTALLED AS SHOWN ON THE CONTRACT DRAWINGS. IF CLEARING IS REQUIRED FOR INSTALLATION OF A PARTICULAR MEASURE, ALL MEASURES NOT REQUIRING CLEARING SHALL BE INSTALLED FIRST. CLEARING OF THE NECESSARY LAND FOR INSTALLATION OF THE PARTICULAR MEASURE MAY THEN PROCEED.
2. DUE TO THE NATURE OF THE WORK REQUIRED BY THIS CONTRACT, IT IS ANTICIPATED THE LOCATION AND NATURE OF EROSION AND SEDIMENT CONTROL MEASURES WILL BE ADJUSTED AS CONSTRUCTION PROGRESSES TO REFLECT THE CURRENT PHASE OF WORK. THE CONSTRUCTION SCHEDULE ADOPTED BY THE CONTRACTOR WILL IMPACT THE PLACEMENT AND NEED FOR SPECIFIC DEVICES REQUIRED FOR THE CONTROL OF EROSION. THE LOCATION AND EXTENT OF EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REVISED AT EACH PHASE OF CONSTRUCTION RESULTING IN A CHANGE OF EITHER THE QUANTITY OR DIRECTION OF SURFACE RUNOFF FROM THE CONSTRUCTION AREAS.
3. INLET PROTECTION IS REQUIRED FOR ALL CATCH BASINS AND MANHOLES WITH OPEN GRATES WITHIN THE CONTRACT LIMIT LINE.
4. CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FROM THE ENGINEER AND REGULATORY AGENCIES FOR DEVIATIONS FROM THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
5. CLEARING SHALL BE LIMITED AS MUCH AS POSSIBLE TO AREAS REQUIRED FOR CURRENT CONSTRUCTION ACTIVITIES. MASS CLEARING AND GRADING SHALL BE AVOIDED.
6. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED BY THE ENGINEER WITHIN 24 HOURS FOLLOWING EVERY RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY SEVEN CALENDAR DAYS.
7. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REPAIRED OR REPLACED IMMEDIATELY AS REQUIRED TO MAINTAIN PERFORMANCE OF MEASURE. MEASURES SHALL BE CLEANED WHEN SEDIMENT VOLUME REACHES ½ OF TOTAL VOLUME OF MEASURE. REMOVED SEDIMENT SHALL BE DISPOSED OF IN SUCH A MANNER AND LOCATION AS TO INSURE FURTHER SEDIMENT TRANSPORT DOES NOT OCCUR.
8. CONTRACTOR SHALL INITIATE STABILIZATION MEASURES AS SOON AS PRACTICABLE ON STOCKPILES AND IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. THIS REQUIREMENT DOES NOT APPLY IN THE FOLLOWING INSTANCES:
   a. WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 7TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASED IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE;
   b. WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN FOURTEEN (14) DAYS, TEMPORARY STABILIZATION MEASURES NEED NOT BE INITIATED ON THAT PORTION OF THE SITE.
9. ALL DISTURBED AREAS SHALL DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBANCE ACTIVITIES AND UNTIL FINAL STABILIZATION IS ACHIEVED. SEDIMENT-LADEN GROUNDWATER ENCOUNTERED DURING TRENCHING, BORING, OR OTHER ACTIVITIES SHALL BE PUMPED INTO A SEDIMENT TRAPPING DEVICE PRIOR TO BEING DISCHARGED INTO A STREAM, POND, SWALE, OR CATCH BASIN.
10. SOIL STOCKPILE AND LAYDOWN AREAS SHALL HAVE PERIMETER SEDIMENT CONTROL MEASURES AND TEMPORARY OR PERMANENT STABILIZATION MEASURES INSTALLED AS SOON AS POSSIBLE AND AT COMPLETION OF STOCKPILING AND LAYDOWN ACTIVITIES. STOCKPILE SIDE SLOPES SHALL NOT EXCEED 3H ; 1V UNLESS APPROVED BY ENGINEER. TOP OF STOCKPILE SHALL BE GRADED WITH A MINIMUM 5% SLOPE TO INSURE PROPER DRAINAGE.
11. ALL DISTURBED AREAS, EXCEPT FOR CONCRETE AND PAVED AREAS, SHALL BE FERTILIZED, SEEDED AND MULCHED IN ACCORDANCE WITH THE SPECIFICATIONS AND THE SEEDING SCHEDULE, AND RE-SEEDED AS NECESSARY, TO ESTABLISH AND MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER.
12. ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS SHALL BE PROTECTED TO PREVENT THE DEPOSITION OF MATERIALS ONTO TRAVERSED OFFSITE ROADWAYS. IF MATERIAL IS TRACKED ONTO OFFSITE ROADWAYS, IT SHALL BE REMOVED IMMEDIATELY. DO NOT UTILIZE A WATER HOSE TO CLEAN ROADS UNLESS THE RUNOFF IS DIRECTED TO A PROPERLY DESIGNED AND FUNCTIONING SEDIMENT CONTROL DEVICE. PROPER PRECAUTIONS SHALL BE TAKEN TO ENSURE THAT MATERIALS DEPOSITED ONTO OFFSITE ROADWAYS ARE REMOVED SO THAT THEY DO NOT ENTER YARD INLETS, CATCH BASINS, SEWERS, WETLANDS, SURFACE WATER BODIES, OR ROADSIDE SWALES.
13. WHERE CONCRETE EQUIPMENT WASHING IS REQUIRED, THIS MUST BE DONE IN AN APPROVED “CONCRETE CONTAINMENT AREA”. CONTRACTOR SHALL NOT DISCHARGE ANY CONCRETE WASHOUT WATER INTO SEWERS, SURFACE WATER BODIES OR ONTO THE GROUND. ALL WASHOUT WATER MUST BE REMOVED FROM THE SITE(S) DAILY.
14. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST NEW YORK STATE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL.
15. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE, PERMANENT VEGETATION IS ESTABLISHED ON ALL DISTURBED AREAS, AND THE ENGINEER HAS GIVEN PERMISSION FOR REMOVAL.

NO.	DATE	ISSUED FOR	BY

Environmental Protection
CITY OF NEW YORK
ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis

NYC Parks
CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

SEAL
STATE OF NEW YORK
SANDEEP MEHROTRA
073828-1
LICENSED PROFESSIONAL ENGINEER

Hazen

BLOCK

LOT

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE

DRAWING TITLE
GENERAL NOTES

DESIGNED BY	DRAWN BY		CHECKED BY
J. BRENNAN	D. THOMAS		A. EASON
B-SCAN	SCALE: N/A	DRAWING NO.	CONTRACT NO.: GI-CONS-6
	DATE: NOV 2026	O-3	SHEET No. 3 OF 4 SHEETS

ABBREVIATIONS

AS PER RECORD	(A)
ASPHALT	ASPH.
BOTTOM OF CURB	B.C.
BOTTOM OF WALL	B.W.
CAST IRON	C.I.
CATCH BASIN	C.B.
CHAIN LINK FENCE	C.L.F
COMBINED	COMB.
CONCRETE	CONC.
CONCRETE CURB	C.C.
CONCRETE SIDEWALK	C.S.W.
CONSTRUCTION LIMIT LINE	C.L.L.
COPPER TUBING	C.T.
CRITICAL ROOT ZONE	C.R.Z.
DROP CURB	D.C.
DEPARTMENT OF ENVIRONMENTAL PROTECTION	DEP
DEPARTMENT OF PARKS AND RECREATION	DPR
DIAMETER	DIA.
DUCTILE IRON PIPE	D.I.P.
ELEVATION	ELEV.
EXISTING	EXIST.
EXTRA STRENGTH STEEL PIPE	E.S.S.P.
EXTRA STRENGTH VITRIFIED PIPE	E.S.V.P.
FROM RECORD PLAN	F.R.P.
GRANITE CURB	GRAN C.
HIGH DENSITY POLYETHYLENE	H.D.P.E.
INNER DIAMETER	I.D.
INVERT	INV.
LINED CAST IRON PIPE	L.C.P.
METAL FENCE	M.F.
OUTER DIAMETER	O.D.
ON CENTER	O.C.
MANHOLE	M.H.
NOT TO SCALE	N.T.S.
PAVERS	PAV.
PERFORATED POLYETHYLENE CORRUGATED PIPE	P.P.C.P.
PIPE RAIL FENCE	P.R.F
POLYETHYLENE CORRUGATED PIPE	P.C.P.
POLYVINYL CHLORIDE PIPE	P.V.C.
REINFORCED CONCRETE PIPE	R.C.P.
SANITARY	SAN.
SEWER	SWR.
STEEL FACED CURB	S.F.C.
STEEL WICKET FENCE	S.W.F.
STORM	STM.
TOP OF CURB	T.C.
TOP OF HOOD	T.O.H.
TOP OF WALL	T.W.
TREE PROTECTION ZONE	T.P.Z.
UNKNOWN	UNK.
VITRIFIED TILE PIPE	V.T.P.
WROUGHT IRON FENCE	W.I.F.

	EXISTING	PROPOSED
ELECTRIC MANHOLE	E	E
TELEPHONE MANHOLE	T	T
GAS MANHOLE	G	G
WATER MANHOLE	W	W
FIRE DEPT. MANHOLE	F	F
STORM SEWER MANHOLE	S STM	S STM
COMBINED SEWER MANHOLE	S COMB	S COMB
SANITARY SEWER MANHOLE	S SAN	S SAN
UNIDENTIFIED MANHOLE (NO RECORD AVAILABLE)	MH	MH
RECORD MANHOLE	S	S
HARDWARE RIM EL. & INV. EL. (SEWER, ETC.)	S 61.23 INV.47.89	S 61.23 INV.47.89
CATCH BASIN		
INLET		
YARD DRAIN		
LOW PRESSURE HYDRANT		
HIGH PRESSURE HYDRANT		
WOOD UTILITY POLE		
WOOD UTILITY POLE WITH STREET LIGHT		
STREET LIGHT (METAL POLE)		
GAS VALVE	G	G
WATER VALVE	W	W
TREE (SIZE AS LABELED)	12"	7"
SHRUB		
SIGN (GROUND MOUNTED)		
DRINKING FOUNTAIN		
FLAGPOLE		
MAPPED PROPERTY LINE	PL	
WATER SERVICE (WITH SIZE - LESS THAN 5")	1" WATER	1" WATER
8" WATER MAIN	8" WATER	8" WATER
12" WATER MAIN	12" WATER	12" WATER
48" WATER MAIN	48" WATER	48" WATER
72" WATER MAIN	72" WATER	72" WATER
STORM SEWER (WITH SIZE - LESS THAN 24")	15" STM. SEWER	15" STM. SEWER
STORM SEWER (WITH SIZE - 24" OR GREATER)	24" STM. SEWER	24" STM. SEWER
SANITARY SEWER (WITH SIZE - LESS THAN 24")	15" SAN. SEWER	15" SAN. SEWER
SANITARY SEWER (WITH SIZE - 24" OR GREATER)	24" SAN. SEWER	24" SAN. SEWER
COMBINED SEWER (WITH SIZE - LESS THAN 24")	15" COMB. SEWER	15" COMB. SEWER
COMBINED SEWER (WITH SIZE - 24" OR GREATER)	24" COMB. SEWER	24" COMB. SEWER
GAS LINE (WITH SIZE)	4" GAS	4" GAS
ELECTRIC	ELECTRIC	ELECTRIC
TELEPHONE	TELEPHONE	TELEPHONE
CABLE	CABLE	CABLE
FIRE ALARM	FIRE ALARM	FIRE ALARM
OVERHEAD (AERIAL) UTILITY LINE	A/E,T,F	A/E,T,F
CURB (CONCRETE UNLESS OTHERWISE INDICATED)		
CHAIN LINK FENCE (W/ HEIGHT)	6'	6'
IRON PICKET FENCE (W/ HEIGHT)	5'	5'
WIRE FENCE (W/ HEIGHT)	5'	
IRON ON CONCRETE COPING		
WOOD PICKET FENCE (W/ HEIGHT)	4'	4'
GUARD POST	GP	GP
BEAM TYPE MALL BARRIER		
PORTABLE PRECAST CONCRETE BARRIER		
CAST IN PLACE CONCRETE BARRIER		
RETAINING WALL (W/TYPE)	RW (STN.)	RW (STN.)
RAILROAD/TROLLEY TRACK		
LOT & BLOCK NUMBER	39 BLOCK 2109	
ANGLE	0.00	

LEGEND

	EXISTING	PROPOSED
TREE DRIPLINE		
TREE CRITICAL ROOT ZONE		
TREE PROTECTION ZONE		
MAJOR CONTOUR LINE	35	36
MINOR CONTOUR LINE	35	36
CONSTRUCTION ACCESS/ENTRANCE		
STAGING AREA		
STABILIZED CONSTRUCTION ENTRANCE		
TEMPORARY ASPHALT ENTRANCE		
FULL DEPTH PAVEMENT REMOVAL AND REPLACEMENT		
MILLING AND PAVING		
FULL EXCAVATION LIMIT		
SAWCUT LIMIT		
PIPE REMOVAL		
POINT OF BEGINNING		
CONTRACT LIMIT LINE		CLL
SILT FENCE		SF SF
TEMPORARY CONSTRUCTION FENCE		CF
STRAW BALE DIKE		
TREE TO BE PROTECTED		#"
TREE TO BE TRANSPLANTED		#"
TREE TO BE REMOVED		#"
BORING LOCATION		B
PERMEABILITY TEST LOCATION		PT
GREEN INFRASTRUCTURE PRACTICE		
ISOLATOR ROW WITH WOVEN GEOTEXTILE		
COLOR SEAL COAT		
CLEANOUT/INSPECTION PORT		
ON-SITE GREEN INFRASTRUCTURE MANHOLE		
OUTLET CONTROL STRUCTURE		
DUAL CATCH BASIN		
MODIFIED CURB INLET		
PROPOSED STORM DRAIN (W/ FLOW DIRECTION)		
DRAINAGE AREA		
FLOW DIRECTION		FLOW

GREEN INFRASTRUCTURE CHARACTERISTICS

GI PRACTICE ID

TRIBUTARY AREA	VOLUME OF X.XX" STORM	CAPACITY MANAGED

NYC Environmental Protection

CITY OF NEW YORK
ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis

NYC Parks

CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

SEAL

STATE OF NEW YORK · SANDEEP MEHROTRA · LICENSED PROFESSIONAL ENGINEER

Hazen

BLOCK

LOT

PROJECT TITLE
ON-SITE GREEN INFRASTRUCTURE

DRAWING TITLE
LEGEND AND ABBREVIATIONS

DESIGNED BY	DRAWN BY	CHECKED BY
J. BRENNAN	D. THOMAS	A. EASON

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	N/A	O-4	GI-CONS-6
	DATE NOV 2026		SHEET No. 4 OF 4 SHEETS

NEW YORK CITY ENVIRONMENTAL PROTECTION
BUREAU OF ENVIRONMENTAL PLANNING & ANALYSIS

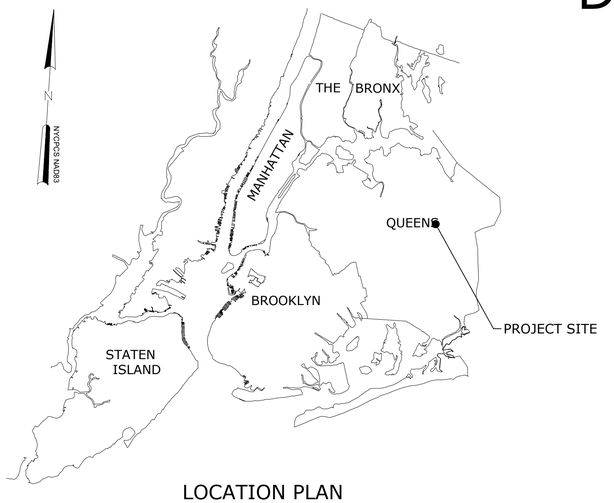
NYC Parks

ON-SITE GREEN INFRASTRUCTURE
TALLMAN ISLAND CSO TRIBUTARY AREA
OUTFALL TI-010
DEP CAPITAL CONTRACT NO. GI-CONS-6

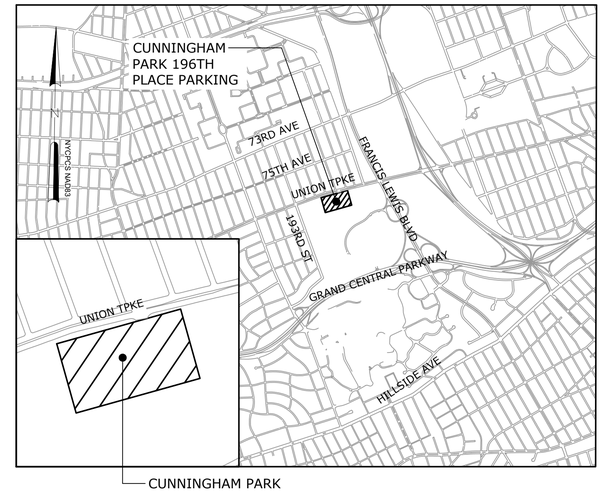
Q021 CUNNINGHAM 196TH PLACE PARKING
BBL 4072900001

QUEENS, NY

BID SET
NOVEMEBER 2026



LOCATION PLAN



IMPORTANT WORK RESTRICTION NOTE:
DUE TO SEASONAL RESTRICTIONS, THE CONTRACTOR IS ADVISED THAT NO WORK SHALL BE PERFORMED BETWEEN MAY 1ST AND OCTOBER 31ST.

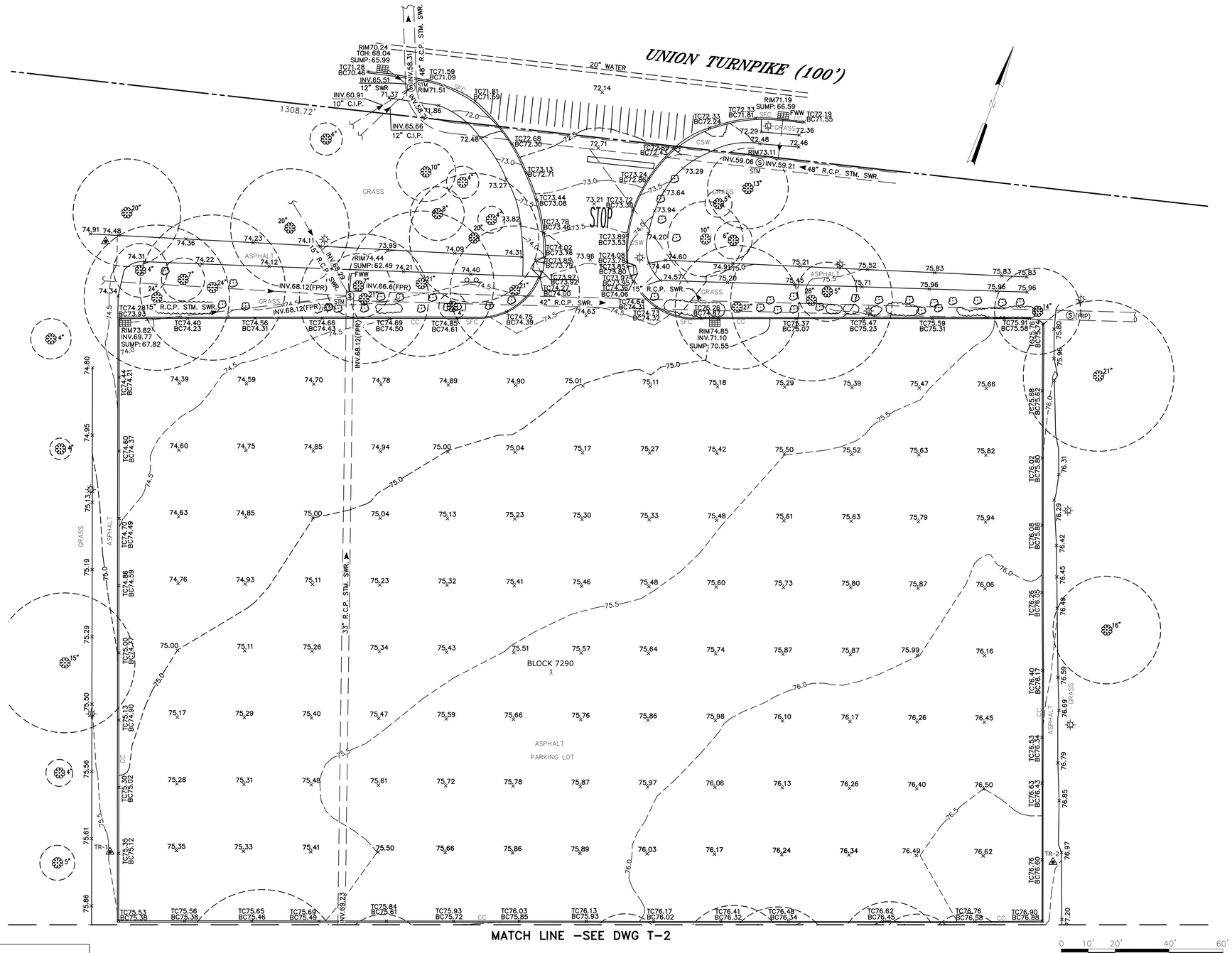
SHEET LIST TABLE	
Sheet Number	Sheet Title
G001	COVER
T-1	TOPOGRAPHIC & UTILITY SURVEY PLAN - 1
T-2	TOPOGRAPHIC & UTILITY SURVEY PLAN - 2
C000	EXISTING CONTRIBUTING DRAINAGE AREA PLAN
C100	TREE PROTECTION, CONSTRUCTION SEQUENCING, AND ESC PLAN - 1
C101	TREE PROTECTION, CONSTRUCTION SEQUENCING, AND ESC PLAN - 2
C102	REMOVAL AND DEMOLITION PLAN - 1
C103	REMOVAL AND DEMOLITION PLAN - 2
C200	PROPOSED GREEN INFRASTRUCTURE LAYOUT PLAN - 1
C201	PROPOSED GREEN INFRASTRUCTURE LAYOUT PLAN - 2
C202	PROPOSED TRIBUTARY DRAINAGE AREA PLAN
C203	PROPOSED MATERIALS, AND FINAL STABILIZATION PLAN - 1
C204	PROPOSED MATERIALS, AND FINAL STABILIZATION PLAN - 2
C205	PAINTING PLAN
C300	SECTIONS AND PROFILES - 1
C301	SECTIONS AND PROFILES - 2
C302	SECTIONS AND PROFILES - 3
C303	SECTIONS AND PROFILES - 4
C304	SECTIONS AND PROFILES - 5
C500	DETAILS - 1
C501	DETAILS - 2
C502	DETAILS - 3
C503	DETAILS - 4

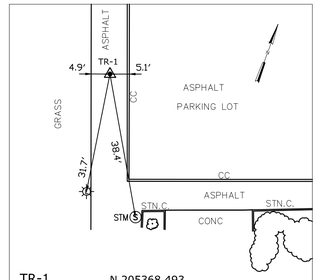
John McLaughlin — Digitally signed by John McLaughlin, Date: 2026.11.03 09:31:14 -05'00'

JOHN MCLAUGHLIN
MANAGING DIRECTOR
OFFICE OF ECOSYSTEM SERVICES, GREEN INFRASTRUCTURE AND RESEARCH
BUREAU OF ENVIRONMENTAL PLANNING & ANALYSIS, NYCDEP

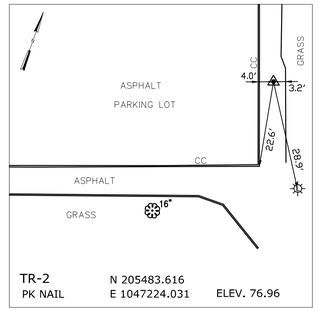
Lisa F. Garcia — Digitally signed by Lisa F. Garcia, Date: 2026.11.02 15:40:14 -05'00'

LISA F. GARCIA
COMMISSIONER
NYCDEP

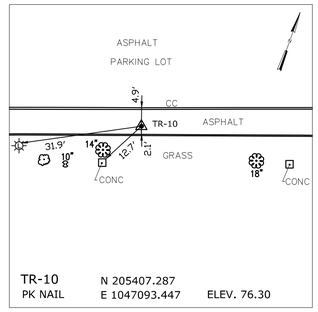




TR-1 N 205368.493
PK NAIL E 1046891.144, ELEV. 75.55



TR-2 N 205483.616
PK NAIL E 1047224.031 ELEV. 76.96



TR-10 N 205407.287
PK NAIL E 1047093.447 ELEV. 76.30

TIES
N.T.S.

STATE OF NEW YORK
ANGELO JOHN FIORDALIS
049468
LICENSED LAND SURVEYOR

NOTES:

1. ALL ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
2. LOCATIONS, EXTENT AND SIZES OF UNDERGROUND UTILITIES AND SUBSTRUCTURES HAVE BEEN DETERMINED FROM RECORD INFORMATION, SUPPLEMENTED BY DATA OBTAINED IN THE FIELD. ACCURACY OF THIS UTILITY DATA IS NOT GUARANTEED, NOR IS THERE ANY GUARANTEE THAT ALL EXISTING UTILITIES AND SUBSTRUCTURES, WHETHER FUNCTIONAL OR ABANDONED, ARE SHOWN ON THIS MAP.
3. THIS MAP WAS PREPARED FROM DATA COLLECTED BY AN ACTUAL FIELD SURVEY CONDUCTED DURING JULY 2022.

SURVEY PROVIDED BY
MUNOZ ENGINEERING & LAND SURVEYING, D.P.C.
MAY / 2022
NAD83 NY LONG ISLAND STATE PLANE
NAVD88 IS 1.625 FEET ABOVE QUEENS HIGHWAY DATUM

NO.	DATE	ISSUED FOR	BY

DESIGNED N/A
DRAWN K.O.
CHECKED J.J.
PROJ.ENGR. N/A

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.

MUÑOZ ENGINEERING P.C.
505 EIGHTH AVENUE
NEW YORK, N.Y. 10018
TEL. (212) 967-6588

APPROVED FOR THE CITY OF NEW YORK
P.E.
PROJECT MANAGER

NYC Environmental Protection

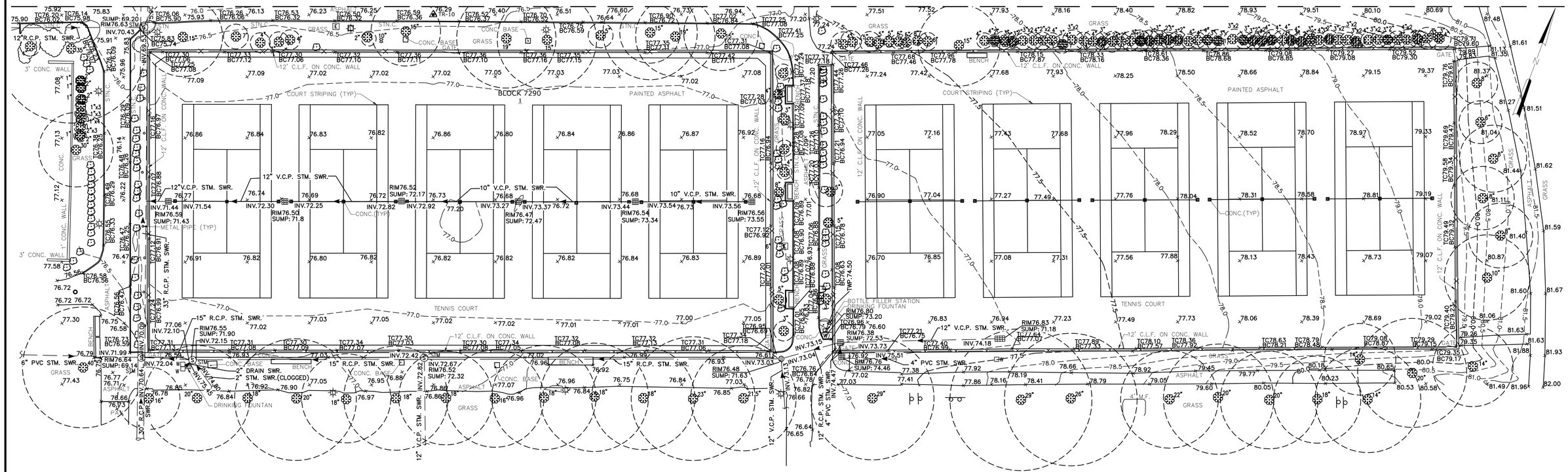
CITY OF NEW YORK
ENVIRONMENTAL PROTECTION
OFFICE OF GREEN INFRASTRUCTURE
NYCDEP CAPITAL PROJECT WP-169

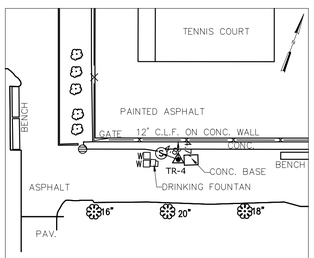
GI-P-DESIGN-3
GREEN INFRASTRUCTURE PRACTICES AT NYC-DPR SITES
CUNNINGHAM PARK / 196th PLACE PARKING
TOPOGRAPHIC & UTILITY SURVEY PLAN

DATE JUN 2022
PAGE 2 OF 3
SHEET NUMBER T-1

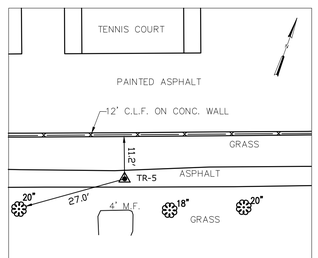
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MATCH LINE –SEE DWG T-1

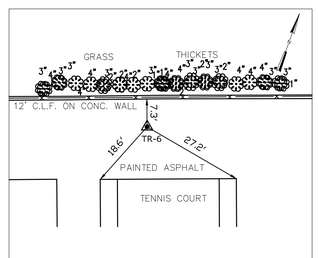




TR-4 PK NAIL N:205244.01 E:1047055.67 ELEV. 76.79



TR-5 PK NAIL N:205367.79 E:1047411.88 ELEV. 79.07



TR-6 PK NAIL N:205483.68 E:1047365.48 ELEV. 78.32

TIES

N.T.S.

NOTES:

1. ALL ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
2. LOCATIONS, EXTENT AND SIZES OF UNDERGROUND UTILITIES AND SUBSTRUCTURES HAVE BEEN DETERMINED FROM RECORD INFORMATION, SUPPLEMENTED BY DATA OBTAINED IN THE FIELD. ACCURACY OF THIS UTILITY DATA IS NOT GUARANTEED, NOR IS THERE ANY GUARANTEE THAT ALL EXISTING UTILITIES AND SUBSTRUCTURES, WHETHER FUNCTIONAL OR ABANDONED, ARE SHOWN ON THIS MAP.
3. THIS MAP WAS PREPARED FROM DATA COLLECTED BY AN ACTUAL FIELD SURVEY CONDUCTED DURING JULY 2022.

0 10' 20' 40' 60'
1" = 20'

STATE OF NEW YORK ANGELO JOHN FIORITO 049468 LICENSED LAND SURVEYOR

SURVEY PROVIDED BY
MUNOZ ENGINEERING & LAND SURVEYING, D.P.C.
MAY / 2022
NAD83 NY LONG ISLAND STATE PLANE
NAVD88 IS 1.625 FEET ABOVE QUEENS HIGHWAY DATUM

NO.	DATE	ISSUED FOR	BY

DESIGNED N/A
DRAWN K.O.
CHECKED J.J.
PROJ.ENGR. N/A

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.

MUÑOZ ENGINEERING P.C.
505 EIGHTH AVENUE
NEW YORK, N.Y. 10018
TEL. (212) 967–6588

APPROVED FOR THE CITY OF NEW YORK
P.E.
PROJECT MANAGER

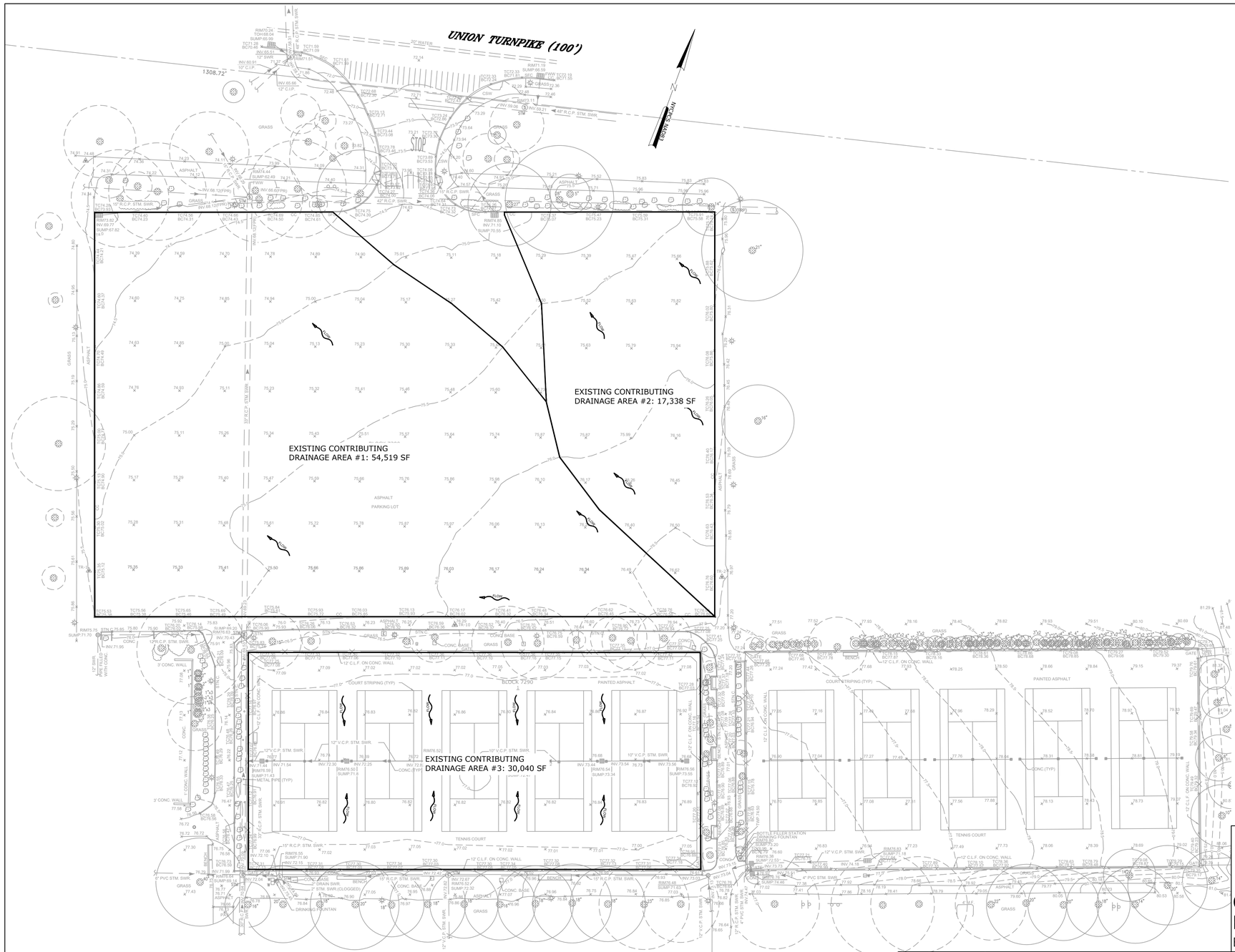
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CITY OF NEW YORK
ENVIRONMENTAL PROTECTION
OFFICE OF GREEN INFRASTRUCTURE
NYCDEP CAPITAL PROJECT WP-169

GI-P-DESIGN-3
GREEN INFRASTRUCTURE PRACTICES AT NYC-DPR SITES
CUNNINGHAM PARK / 196th PLACE PARKING
TOPOGRAPHIC & UTILITY SURVEY PLAN

DATE JUN 2022
PAGE 3 OF 3
SHEET NUMBER T-2

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PLOT DATE: 9/24/2020 12:28 PM BY: JJAROSILLO



PLAN

SCALE: 1" = 30'

LEGEND

FLOW - FLOW DIRECTION

- DRAINAGE AREA

SCALE: 1" = 30'

30 15 0 30

NOTES:

1. DRAWINGS ARE ROTATED 340 DEGREES FROM TRUE NORTH.

NO.	DATE	ISSUED FOR	BY

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PARKS & RECREATION
Forestry, Horticulture and Natural Resources

SEAL

STATE OF NEW YORK — DEEP MEHROTRA — 087626 — LICENSED PROFESSIONAL ENGINEER

Hazen

BLOCK 7290

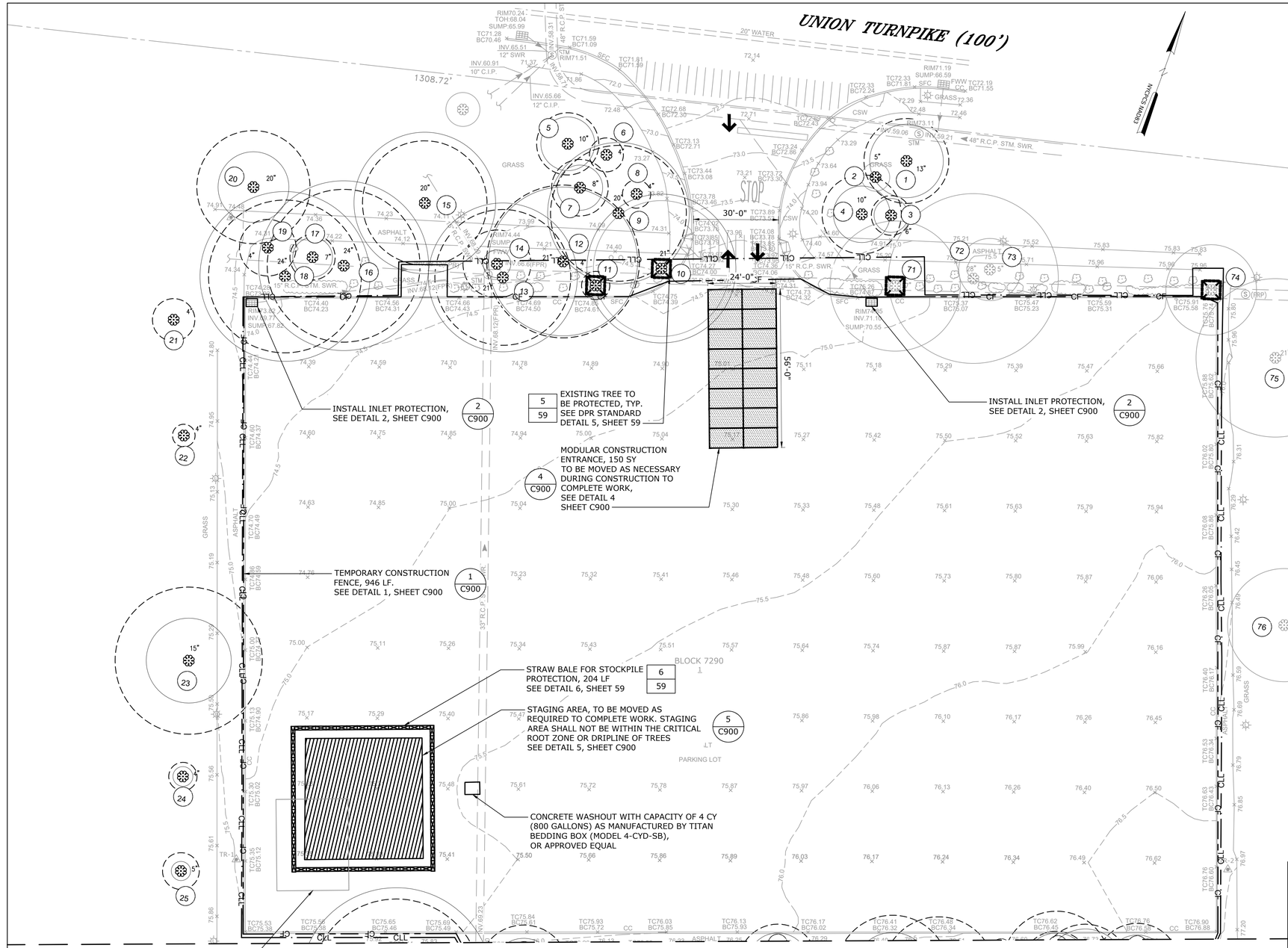
LOT 1

PROJECT TITLE
CUNNINGHAM PARK 196TH
PLACE PARKING ON-SITE
GREEN INFRASTRUCTURE

DRAWING TITLE
EXISTING CONTRIBUTING DRAINAGE AREA PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
J. BRENNAN	D. THOMAS	A. EASON

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 30'	C000	GI-CONS-6
	DATE NOV 2026		SHEET No. 4 OF 23 SHEETS



PLAN
SCALE: 1" = 20'

TREE #	SPECIES (common name)	DBH (inches)	CTLA CONDITION RATING	ISA CRITICAL ROOTZONE (CRZ) RADIUS (FEET)	TREE REMOVAL	STUMP REMOVAL	TRANSPLANT TREE	PREPARATORY PRUNING ANSI A-300					TREE PROTECTION							DECOMPACT					PREPARATORY FERTILIZE	TREE GROWTH REGULATOR	COMMENTS
								Cleaning	Raising	Reducing	Reshaping	Structural	Thinning	Lasa Tying	Temporary Wooden Tree Guard	Wooden Tree Guard For Gloves	Chain Link Fence	Boundary	Protect Existing Tree	Protect Ex. Tree Roots	Air-Tiling 3 Ft Radius	Air-Tiling 5 Ft Radius	Radial Trench	Vertical Mulch			
1	TAMARACK	13	97%	13																							Sapsucker holes indicates insects under bark
2	UNKNOWN	5	81%	3.0																							Chaemacyparis
3	TAMARACK	6	100%	6.0																							
4	PEAR, CALLERY	10	75%	10																							
5	TAMARACK	10	100%	9.5																							
6	UNKNOWN	4	94%	3.0																							Chaemacyparis, some yellowing of leaves
7	TAMARACK	8	100%	8.0																							
8	ARBORVITAE, AMERICAN	4	100%	5.0																							
9	SWEETGUM	20	75%	25			X																				Root girdling; some dieback
10	SWEETGUM	21	75%	26			X							X													Some dieback
11	ARBORVITAE, AMERICAN	4	100%	5.0										X													Multistem (MS)
12	SWEETGUM	21	94%	26																							
13	SWEETGUM	21	91%	26																							Suckering on trunk
14	ELM, OTHER	7	91%	4.9																							
15	SWEETGUM	20	100%	25																							Some suckering at base
16	SWEETGUM	24	94%	30																							
17	DOGWOOD, FLOWERING	7	25%	7.0																							Tree is mostly dead; full interior rot of trunk; very few leaves.
18	SWEETGUM	24	100%	30																							
19	ELM, OTHER	4	81%	3.0																							Growing in another shrub, unlikely planted
20	SWEETGUM	20	94%	25																							Some girdeling roots
21	REDBUD, EASTERN	4	81%	4.0																							Suckering at basel medical damage at base
22	UNKNOWN	4	100%	3.0																							Jumper
23	LONDON PLANETREE	15	94%	15																							Some browning of leaves.
24	SWEETGUM	4	94%	3.5																							Mechanical damage on trunk
25	OAK, NORTHERN RED	5	100%	3.4																							
71	UNKNOWN LIVE TREES	-	0%	-										X													-
72	UNKNOWN LIVE TREES	-	0%	-																							-
73	UNKNOWN LIVE TREES	-	0%	-																							-
74	UNKNOWN LIVE TREES	-	0%	-										X													-
75	UNKNOWN LIVE TREES	-	0%	-																							-
76	UNKNOWN LIVE TREES	-	0%	-																							-

TABLE 4.6(a) – CONSTRUCTION SEQUENCING

PHASE # 1

STAGE # 1: Tree Protection, Construction Sequencing, and ESC

CONSTRUCTION ACTIVITY (in sequential order)	PRACTICE(S) INSTALLED PRIOR TO ACTIVITY[1]	PRACTICE(S) INSTALLED DURING ACTIVTY	PRACTICE(S) INSTALLED WITHIN ONE BUSINESS DAY OF COMPLETING ACTIVITY[1]
Protect existing vegetation		Tree Guards	
Install perimeter erosion control measures and fencing		Silt Fence Inlet Protection Construction Entrance	
Establish Staging Area		Site Pollution Prevention Stockpile Protection	

LEGEND

- TREE TO BE PROTECTED
- TREE DRIPLINE
- TREE CRITICAL ROOT ZONE
- CONSTRUCTION ACCESS/ENTRANCE
- PROPOSED STAGING AREA
- CONTRACT LIMIT LINE
- CONSTRUCTION FENCE

SCALE: 1" = 20'

NOTES:

1. DRAWINGS ARE ROTATED 340 DEGREES FROM TRUE NORTH.
2. TREE PROTECTION NOTES CAN BE FOUND ON THE SHEET G002 - GENERAL NOTES.
3. PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL COORDINATE WITH NYC PARKS REPRESENTATIVE FOR THE REMOVAL OF THE SOLAR CHARGING STATIONS.

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Bureau of Environmental Planning and Analysis

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CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

SEAL
STATE OF NEW YORK — DEEP MEHROTRA — 073826 — LICENSED PROFESSIONAL ENGINEER

Hazen

BLOCK 7290
LOT 1

PROJECT TITLE
CUNNINGHAM PARK 196TH
PLACE PARKING ON-SITE
GREEN INFRASTRUCTURE

DRAWING TITLE
TREE PROTECTION, CONSTRUCTION SEQUENCING, AND ESC PLAN - 1

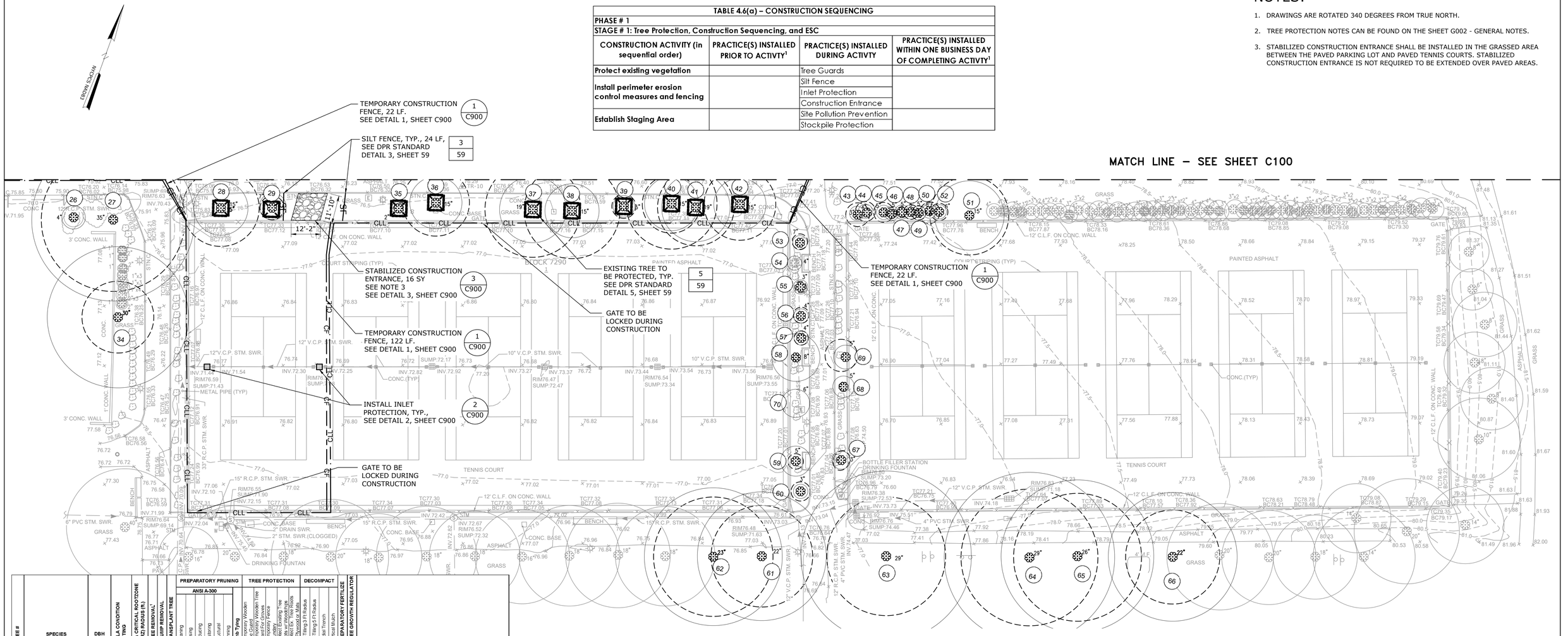
DESIGNED BY	DRAWN BY	CHECKED BY
J. BRENNAN	D. THOMAS	A. EASON

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 20'	C100	GI-CONS-6
	DATE NOV 2026		SHEET No. 5 OF 23 SHEETS

TABLE 4.6(a) – CONSTRUCTION SEQUENCING			
PHASE # 1			
STAGE # 1: Tree Protection, Construction Sequencing, and ESC			
CONSTRUCTION ACTIVITY (in sequential order)	**PRACTICE(S) INSTALLED PRIOR TO ACTIVITY[1]**	**PRACTICE(S) INSTALLED DURING ACTIVITY**	**PRACTICE(S) INSTALLED WITHIN ONE BUSINESS DAY OF COMPLETING ACTIVITY[1]**
Protect existing vegetation		Tree Guards	
Install perimeter erosion control measures and fencing		Silt Fence	
		Inlet Protection	
		Construction Entrance	
Establish Staging Area		Site Pollution Prevention	
		Stockpile Protection	

NOTES:

1. DRAWINGS ARE ROTATED 340 DEGREES FROM TRUE NORTH.
2. TREE PROTECTION NOTES CAN BE FOUND ON THE SHEET G002 - GENERAL NOTES.
3. STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSTALLED IN THE GRASSED AREA BETWEEN THE PAVED PARKING LOT AND PAVED TENNIS COURTS. STABILIZED CONSTRUCTION ENTRANCE IS NOT REQUIRED TO BE EXTENDED OVER PAVED AREAS.



PLAN

SCALE: 1" = 20'

SCALE: 1" = 20'

TREE #	SPECIES (common name)	DBH (inches)	CTLA CONDITION RATING	ISA CRITICAL ROOTZONE (CRZ) RADIUS (ft.)	TREE REMOVAL[2]	STUMP REMOVAL	TRANSPLANT TREE	PREPARATORY PRUNING ANSI A-300: Cleaning	Raising	Reducing	Restoring	Structural	Thinning	TREE PROTECTION: Lone Tyning	Temporary Wooden Tree Guard	Temporary Wooden Tree Guard For Gloves	Temporary Fence	Protect Existing Tree Roots w/ Woodchips	Protect Existing Tree Roots w/ Plywood or Mats	DECOMPACT: Air-Tiling 3 Ft Radius	Air-Tiling 5 Ft Radius	Radial Trench	Vertical Mulch	PREPARATORY FERTILIZE	TREE GROWTH REGULATOR	COMMENTS
26	CRANBERRY, AMERICAN	4	63%	4.9								X														Suckering indicating trunk decay, only counted trunks, not suckers.
27	OAK, PIN	35	78%	35				X		X																Cavities. Overloaded horizontal scaffold branch. Dieback throughout.
28	PINE, AUSTRIAN	15	59%	11				X						X												Leader removed. Borer holes. Oozing wounds. Significant dieback.
29	PINE, EASTERN WHITE	7	97%	8.1										X												Small trunk cracks.
34	OAK, PIN	30	84%	29.5				X																		Dead scaffolding branches. Minor dieback in small branches
35	UNKNOWN	2	100%	3.0										X												Blue atlas cedar
36	PINE, AUSTRIAN	15	91%	10.9										X												Borer holes. Oozing sap.
37	PINE, AUSTRIAN	19	81%	13.9				X						X												Borer holes. Oozing sap. Minor dieback
38	PINE, AUSTRIAN	15	75%	11.3				X						X												Borer holes. Oozing sap. Thin crown.
39	PINE, EASTERN WHITE	5	100%	4.5										X												Good tree.
40	PINE, AUSTRIAN	15	50%	11.3				X				X		X												Major deback. Dead scaffold branches.
41	PINE, AUSTRIAN	19	72%	14.3				X				X		X												Low branching. Borer holes. Scaffold branch embedded in the fence. Thin foliage and inner crown.
42	PINE, AUSTRIAN	15	63%	10.9				X				X		X												Major deback. Dead scaffold branches. Borers
43	ARBORVITAE, ORIENTAL	3	28%	3.0																						Heavy vines engulfing tree.
44	ARBORVITAE, ORIENTAL	4	31%	3.6																						Heavy vines engulfing tree.
45	ARBORVITAE, ORIENTAL	5	94%	4.5																						Virginia creeper vines
46	ARBORVITAE, ORIENTAL	5	94%	6.3																						Low branching. Virginia creeper vines.
47	ARBORVITAE, ORIENTAL	5	91%	4.5																						Dead trunk
48	ARBORVITAE, ORIENTAL	5	94%	6.3																						Tight trunk angle. Virginia creeper.
49	ARBORVITAE, ORIENTAL	5	88%	6.3																						Crossing Trunks. Virginia creepr.
50	ARBORVITAE, ORIENTAL	8	97%	9.4																						Low branching
51	MULBERRY, WHITE	15	72%	14.5																						Girdling roots. Bleeding wound. Major dieback. Leaf spots
52	ARBORVITAE, ORIENTAL	6	97%	7.5																						Low branching. Virginia creeper
53	YEW	7	94%	8.8																						Heavy trunk lean. Small trunk wound.
54	CHERRY, OTHER	4	97%	3.0																						Crossing root.
55	CHERRY, OTHER	3	97%	3.0																						Crossing root.
56	CHERRY, OTHER	4	84%	3.0																						Crossing root. Dead scaffold branch. Epicormic sprouts.
57	CHERRY, OTHER	4	97%	3.0																						Crossing root. Dead scaffold branch. Epicormic sprouts. Minor cloritis
58	YEW	8	97%	10.0																						Low branching. Codominant trunks
59	YEW	5	94%	6.3																						Codominant trunks.
60	CHERRY, OTHER	3	94%	3.0																						Large scaffold branch.
61	SWEETGUM	22	88%	26.9																						Girdling roots. Root fungus. Mechanical damage to roots.
62	SWEETGUM	23	84%	28.8																						Girdling roots with mechanical damage. Dead scaffold branch
63	SWEETGUM	29	91%	35.6																						Girdled roots
64	SWEETGUM	29	94%	35.6																						Minor dieback. Girdling root.
65	SWEETGUM	26	91%	31.9																						Root collar wounds. Minor dieback
66	SWEETGUM	22	84%	26.9																						Large wound at base of trunk. Dead scaffold branch.
67	YEW	3	56%	3.8																						Vines killing tree. Multiple codominant stems
68	DOGWOOD, FLOWERING	5	91%	4.5																						Leaf scorch
69	ASH, WHITE	5	97%	5.0																						Large low scaffold branch. Competition with taxus. Close to fence.
70	DOGWOOD, FLOWERING	6	81%	5.9																						Large MS shrub. 30:1 to 2 inch stems. Utility box and lightpole adjacent.

LEGEND

- TREE TO BE PROTECTED
- TREE DRIPLINE
- TREE CRITICAL ROOT ZONE
- CONSTRUCTION ACCESS/ENTRANCE
- CLL – CONTRACT LIMIT LINE
- CF – CONSTRUCTION FENCE
- SF – SILT FENCE

NO.	DATE	ISSUED FOR	BY

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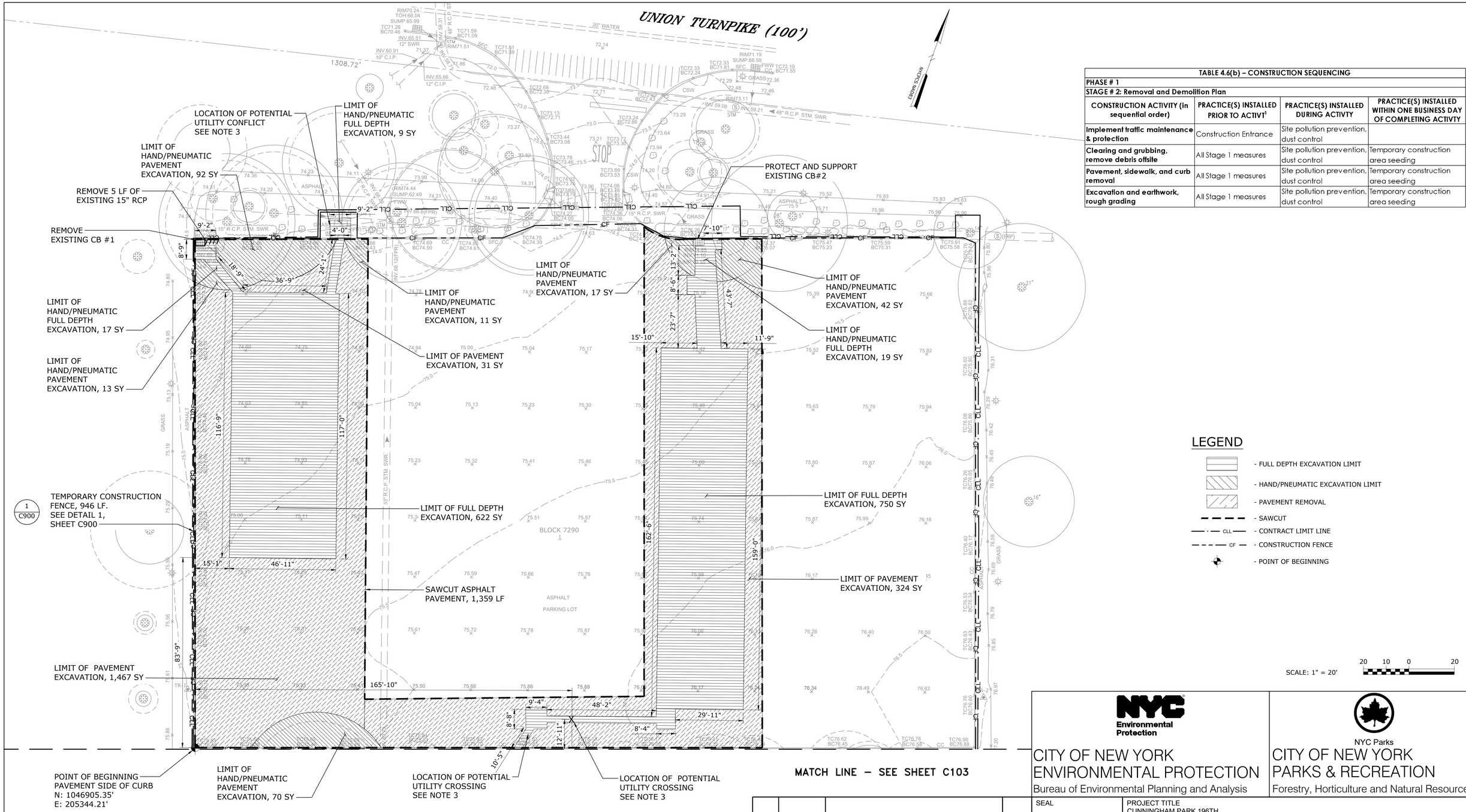
BLOCK 7290
LOT 1

PROJECT TITLE
CUNNINGHAM PARK 196TH
PLACE PARKING ON-SITE
GREEN INFRASTRUCTURE

DRAWING TITLE
TREE PROTECTION, CONSTRUCTION SEQUENCING, AND ESC PLAN - 2

DESIGNED BY	DRAWN BY	CHECKED BY
J. BRENNAN	D. THOMAS	A. EASON

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 20'	C101	GI-CONS-6
	DATE NOV 2026		SHEET No. 6 OF 23 SHEETS



PLAN

SCALE: 1" = 20'

TABLE 4.6(b) – CONSTRUCTION SEQUENCING			
PHASE # 1			
STAGE # 2: Removal and Demolition Plan			
CONSTRUCTION ACTIVITY (in sequential order)	**PRACTICE(S) INSTALLED PRIOR TO ACTIVT[1]**	**PRACTICE(S) INSTALLED DURING ACTIVTY**	**PRACTICE(S) INSTALLED WITHIN ONE BUSINESS DAY OF COMPLETING ACTIVTY**
Implement traffic maintenance & protection	Construction Entrance	Site pollution prevention, dust control	
Clearing and grubbing, remove debris offsite	All Stage 1 measures	Site pollution prevention, dust control	Temporary construction area seeding
Pavement, sidewalk, and curb removal	All Stage 1 measures	Site pollution prevention, dust control	Temporary construction area seeding
Excavation and earthwork, rough grading	All Stage 1 measures	Site pollution prevention, dust control	Temporary construction area seeding

LEGEND

- FULL DEPTH EXCAVATION LIMIT
- HAND/PNEUMATIC EXCAVATION LIMIT
- PAVEMENT REMOVAL
- SAWCUT
- CLL – CONTRACT LIMIT LINE
- CF – CONSTRUCTION FENCE
- POINT OF BEGINNING

SCALE: 1" = 20'

20 10 0 20

NOTES:

1. DRAWINGS ARE ROTATED 340 DEGREES FROM TRUE NORTH.
2. REMOVAL NOTES CAN BE FOUND ON THE SHEET G002 - GENERAL NOTES.
3. THE LOCATIONS OF SUBSURFACE ELECTRICAL SUPPLY LINES ARE UNKNOWN. THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF UNKNOWN UTILITY CROSSING PRIOR TO SITE EXCAVATION.

NO.	DATE	ISSUED FOR	BY

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ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis

NYC Parks

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PARKS & RECREATION
Forestry, Horticulture and Natural Resources

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STATE OF NEW YORK – DEEP MEHROTRA – 087826 – LICENSED PROFESSIONAL ENGINEER

Hazen

BLOCK 7290

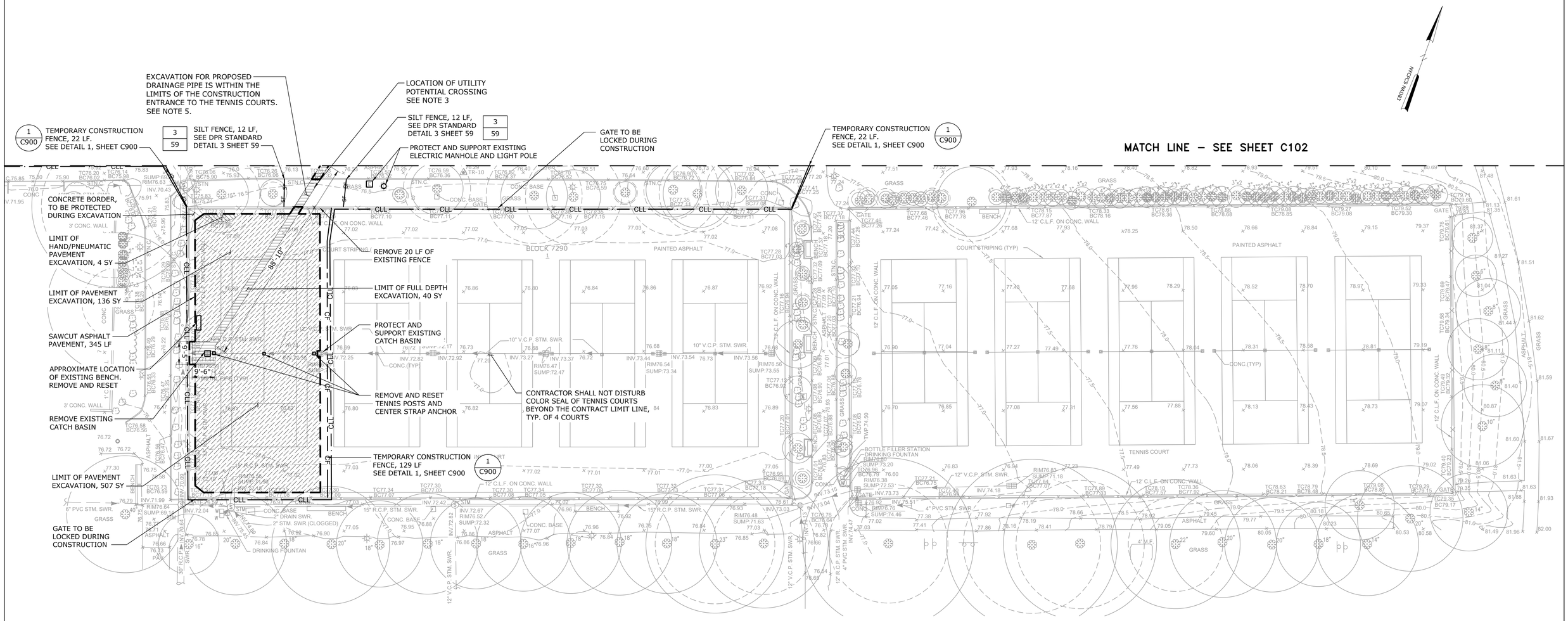
LOT 1

PROJECT TITLE
CUNNINGHAM PARK 196TH
PLACE PARKING ON-SITE
GREEN INFRASTRUCTURE

DRAWING TITLE
REMOVAL AND DEMOLITION PLAN - 1

DESIGNED BY	DRAWN BY	CHECKED BY
J. BRENNAN	D. THOMAS	A. EASON

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 20'	C102	GI-CONS-6
	DATE NOV 2026		SHEET No. 7 OF 23 SHEETS



SCALE: 1" = 20'

20 10 0 20

PLAN

SCALE: 1" = 20'

NOTES:

1. DRAWINGS ARE ROTATED 340 DEGREES FROM TRUE NORTH.
2. REMOVAL NOTES CAN BE FOUND ON THE SHEET G002 - GENERAL NOTES.
3. THE LOCATIONS OF SUBSURFACE ELECTRICAL SUPPLY LINES ARE UNKNOWN. THE CONTRACTOR SHALL FIELD VERIFY LOCATION OF UNKNOWN UTILITY CROSSING PRIOR TO SITE EXCAVATION.
4. CONTRACTOR SHALL NOT DISTURB COLOR SEAL OF TENNIS COURTS BEYOND THE CONTRACT LIMIT LINE.
5. THE CONTRACTOR SHALL COORDINATE AND PHASE INSTALLATION OF THE PROPOSED DRAINAGE PIPE LOCATED WITHIN THE LIMITS OF THE CONSTRUCTION ENTRANCE FOOTPRINT TO MAINTAIN UNINTERRUPTED SITE ACCESS AND EROSION/SEDIMENT CONTROL; PROVIDE A TEMPORARY ACCESS PLAN AS NEEDED AND RESTORE THE CONSTRUCTION ENTRANCE IMMEDIATELY FOLLOWING DRAINAGE PIPE INSTALLATION.

TABLE 4.6(b) – CONSTRUCTION SEQUENCING

PHASE # 1

STAGE # 2: Removal and Demolition Plan

CONSTRUCTION ACTIVITY (in sequential order)	PRACTICE(S) INSTALLED PRIOR TO ACTIVT[1]	PRACTICE(S) INSTALLED DURING ACTIVTY	PRACTICE(S) INSTALLED WITHIN ONE BUSINESS DAY OF COMPLETING ACTIVTY
Implement traffic maintenance & protection	Construction Entrance	Site pollution prevention, dust control	
Clearing and grubbing, remove debris offsite	All Stage 1 measures	Site pollution prevention, dust control	Temporary construction area seeding
Pavement, sidewalk, and curb removal	All Stage 1 measures	Site pollution prevention, dust control	Temporary construction area seeding
Excavation and earthwork, rough grading	All Stage 1 measures	Site pollution prevention, dust control	Temporary construction area seeding

LEGEND

- FULL DEPTH EXCAVATION LIMIT
- HAND/PNEUMATIC EXCAVATION LIMIT
- FULL DEPTH PAVEMENT REMOVAL
- SAWCUT
- CLL — CONTRACT LIMIT LINE
- CF — CONSTRUCTION FENCE
- X — FENCE TO BE REMOVED
- SF — SILT FENCE

NO.	DATE	ISSUED FOR	BY

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Bureau of Environmental Planning and Analysis

NYC Parks

CITY OF NEW YORK
PARKS & RECREATION
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SEAL

Hazen

BLOCK 7290

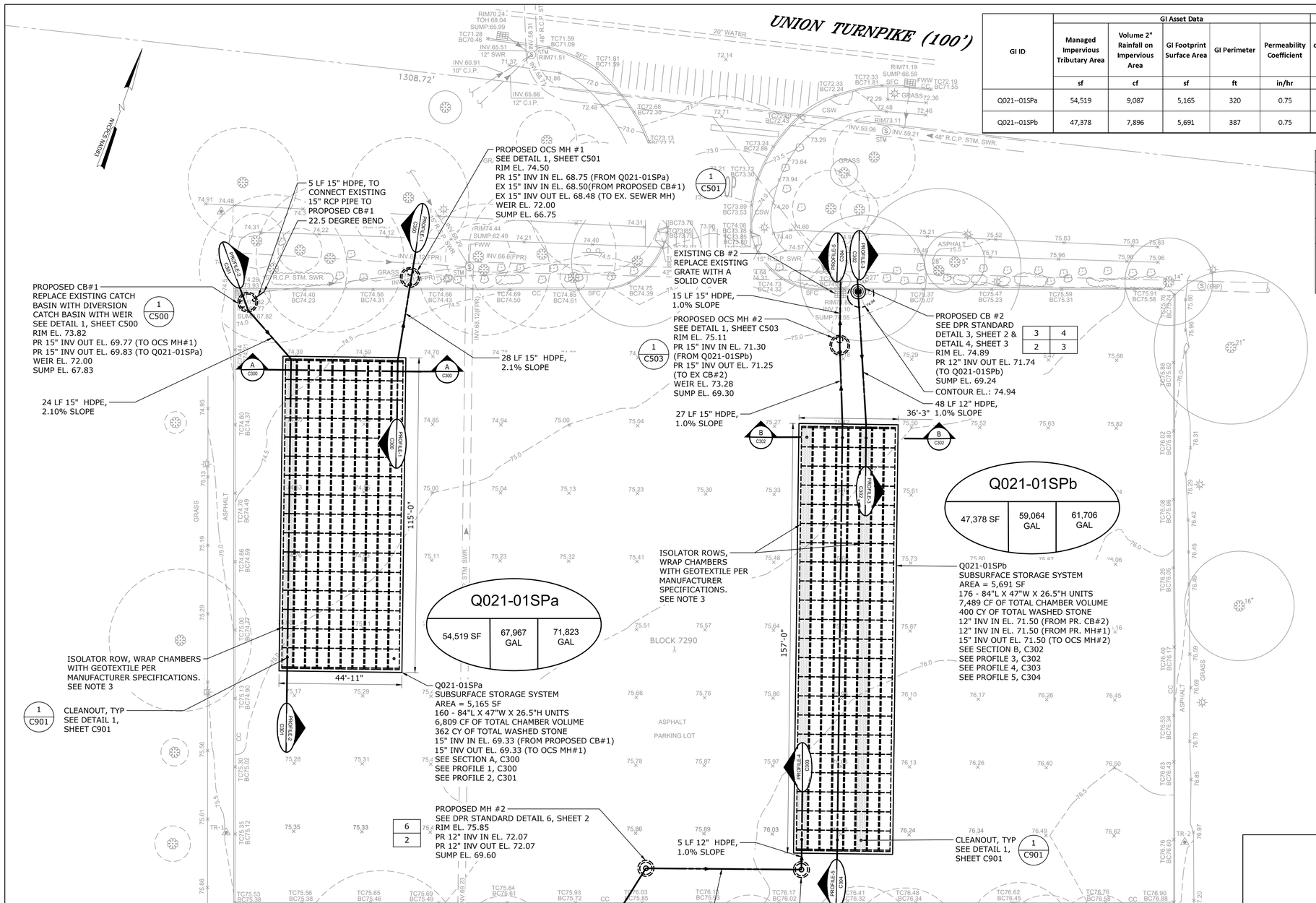
LOT 1

PROJECT TITLE
CUNNINGHAM PARK 196TH
PLACE PARKING ON-SITE
GREEN INFRASTRUCTURE

DRAWING TITLE
REMOVAL AND DEMOLITION PLAN - 2

DESIGNED BY	DRAWN BY	CHECKED BY
J. BRENNAN	D. THOMAS	A. EASON

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 20'	C103	GI-CONS-6
	DATE NOV 2026		SHEET No. 8 OF 23 SHEETS



GI ID	GI Asset Data					Stormwater Storage Calculations				Total Stormwater Managed (Infiltration + Storage)			
	Managed Impervious Tributary Area	Volume 2" Rainfall on Impervious Area	GI Footprint Surface Area	GI Perimeter	Permeability Coefficient	Stormwater chambers, pipes, tanks, etc. volume	Stone Subbase			Estimated Total Storage Volume	% Impervious Surface Managed	Calculated Volume of Rainfall Captured	Calculated Volume of Rainfall Captured
							Stone Depth	Stone Voids	Stormwater Captured by Stone Layer				
	sf	cf	sf	ft	in/hr	cf	ft	%	cf	cf	%	cf	gal
Q021--01SPa	54,519	9,087	5,165	320	0.75	6,809	2.67	40%	2,793	9,602	106%	9,602	71,823
Q021--01SPb	47,378	7,896	5,691	387	0.75	6,996	1.78	40%	1,254	8,250	104%	8,250	61,706

TABLE 4.6(c) – CONSTRUCTION SEQUENCING

PHASE #1

STAGE # 3: Install Site, Grading and Proposed Drainage Elements

CONSTRUCTION ACTIVITY (in sequential order)	PRACTICE(S) INSTALLED PRIOR TO ACTIVITY[1]	PRACTICE(S) INSTALLED DURING ACTIVITY	PRACTICE(S) INSTALLED WITHIN ONE BUSINESS DAY OF COMPLETING ACTIVITY[1]
Install subsurface chambers and backfill	All Stage 1 measures	Site pollution prevention, dust control	Temporary construction area seeding, mulching
Install drainage pipes and backfill	All Stage 1 measures	Site pollution prevention, dust control	Temporary construction area seeding, mulching, and/or permanent construction area seeding

GI NAME

TRIBUTARY AREA | VOLUME OF 2.0" STORM | CAPACITY MANAGED

- GREEN INFRASTRUCTURE CHARACTERISTICS

LEGEND

- PROPOSED MANHOLE
- PROPOSED YARD DRAIN
- PROPOSED OVERLFOW CONTROL STRUCTURE MANHOLE
- PROPOSED GREEN INFRASTRUCTURE PRACTICE
- PROPOSED STORM PIPE
- PROPOSED CLEANOUT
- ISOLATOR ROW

NOTES:

1. DRAWINGS ARE ROTATED 340 DEGREES FROM TRUE NORTH.
2. LAYOUT NOTES CAN BE FOUND ON THE SHEET G002 - GENERAL NOTES.
3. CHAMBER TO CHAMBER CONNECTION FOR ISOLATOR ROWS SHALL BE LOCATED AT DOWNSTREAM END ONLY.

PLAN

SCALE: 1" = 20'

SCALE: 1" = 20'

20 10 0 20

NO.	DATE	ISSUED FOR	BY

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Forestry, Horticulture and Natural Resources

SEAL

STATE OF NEW YORK — DEEP MEHROTRA — 075676 — LICENSED PROFESSIONAL ENGINEER

Hazen

BLOCK 7290

LOT 1

PROJECT TITLE
CUNNINGHAM PARK 196TH
PLACE PARKING ON-SITE
GREEN INFRASTRUCTURE

DRAWING TITLE
PROPOSED GREEN INFRASTRUCTURE LAYOUT PLAN - 1

DESIGNED BY	DRAWN BY	CHECKED BY
J. BRENNAN	D. THOMAS	A. EASON

B-SCAN

SCALE: 1" = 20'

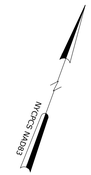
DRAWING NO.: C200

DATE: NOV 2026

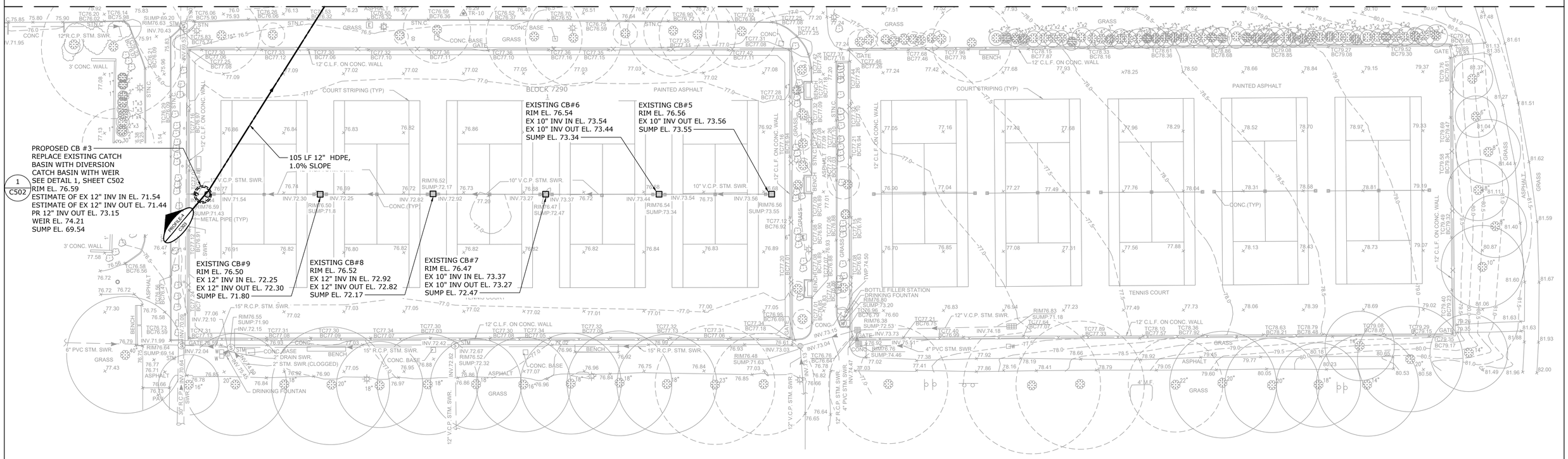
CONTRACT NO.: GI-CONS-6

SHEET No. 9 OF 23 SHEETS

TABLE 4.6(c) – CONSTRUCTION SEQUENCING			
PHASE #1			
STAGE # 3: Install Site, Grading and Proposed Drainage Elements			
CONSTRUCTION ACTIVITY (in sequential order)	**PRACTICE(S) INSTALLED PRIOR TO ACTIVTY[1]**	**PRACTICE(S) INSTALLED DURING ACTIVTY**	**PRACTICE(S) INSTALLED WITHIN ONE BUSINESS DAY OF COMPLETING ACTIVTY[1]**
Install subsurface chambers and backfill	All Stage 1 measures	Site pollution prevention, dust control	Temporary construction area seeding, mulching
Install drainage pipes and backfill	All Stage 1 measures	Site pollution prevention, dust control	Temporary construction area seeding, mulching, and/or permanent construction area seeding



MATCH LINE – SEE SHEET C200



PLAN
SCALE: 1" = 20'

SCALE: 1" = 20'

LEGEND

- PROPOSED MANHOLE
- PROPOSED STORM DRAIN
- PROPOSED OVERLFOW CONTROL STRUCTURE CATCH BASIN

NOTES:

1. DRAWINGS ARE ROTATED 46 DEGREES FROM TRUE NORTH.
2. LAYOUT NOTES CAN BE FOUND ON THE SHEET G002 - GENERAL NOTES.

NO.	DATE	ISSUED FOR	BY

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DEEP MEHROTRA — 027826 — LICENSED PROFESSIONAL ENGINEER — STATE OF NEW YORK

Hazen

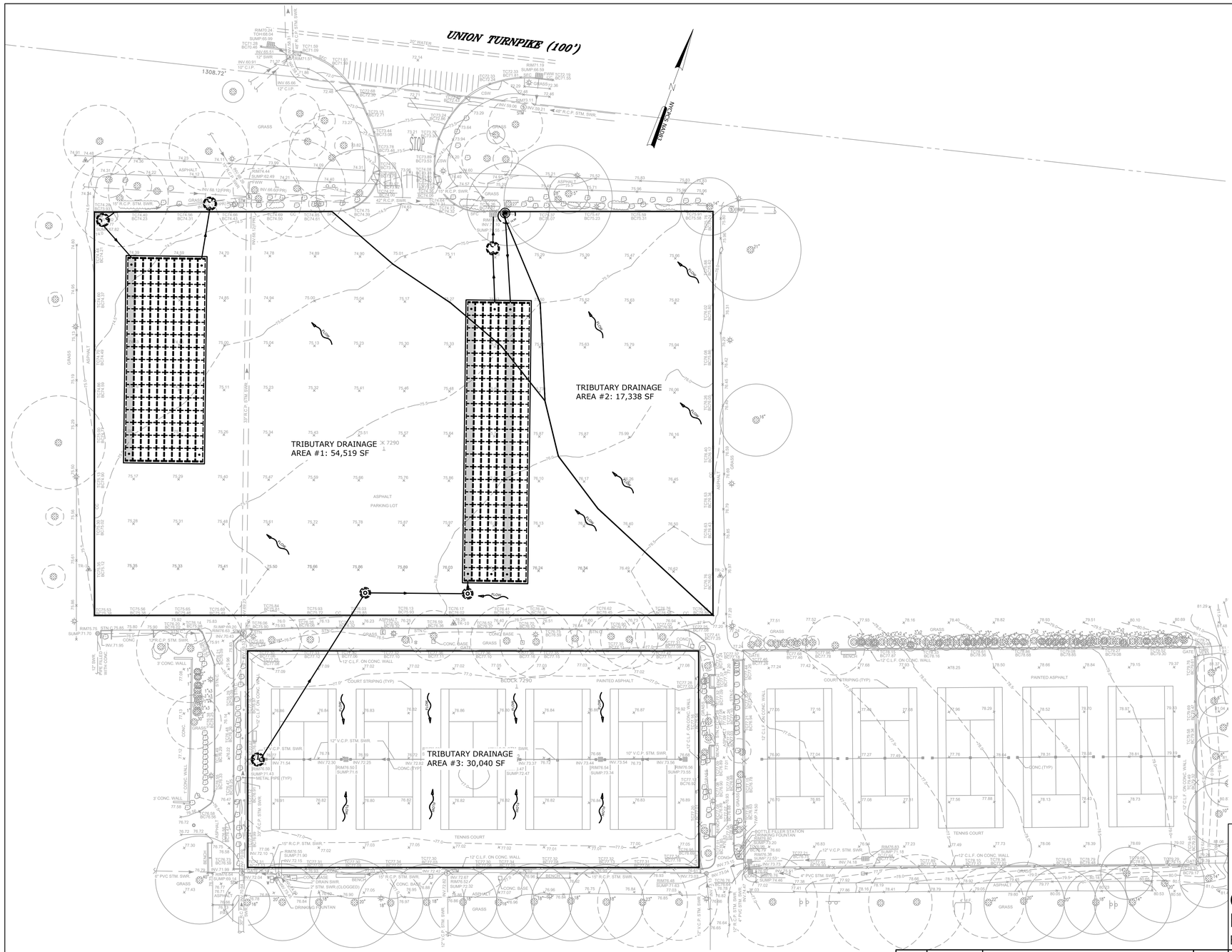
BLOCK 7290
LOT 1

PROJECT TITLE
CUNNINGHAM PARK 196TH
PLACE PARKING ON-SITE
GREEN INFRASTRUCTURE

DRAWING TITLE
PROPOSED GREEN INFRASTRUCTURE LAYOUT PLAN - 2

DESIGNED BY	DRAWN BY	CHECKED BY
J. BRENNAN	D. THOMAS	A. EASON

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 20'	C201	GI-CONS-6
	DATE NOV 2026		SHEET No. 10 OF 23 SHEETS



PLAN

SCALE: 1" = 30'

LEGEND

- GREEN INFRASTRUCTURE PRACTICE
- FLOW DIRECTION
- PROPOSED STORM DRAIN
- DRAINAGE AREA
- PROPOSED MANHOLE
- PROPOSED YARD DRAIN
- PROPOSED OVERLFOW CONTROL STRUCTURE MANHOLE
- ISOLATOR ROW

SCALE: 1" = 30'

30 15 0 30

NOTES:

1. DRAWINGS ARE ROTATED 340 DEGREES FROM TRUE NORTH.

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SEAL

STATE OF NEW YORK — DEEPAK MEHROTRA — 087676 — LICENSED PROFESSIONAL ENGINEER

Hazen

BLOCK 7290

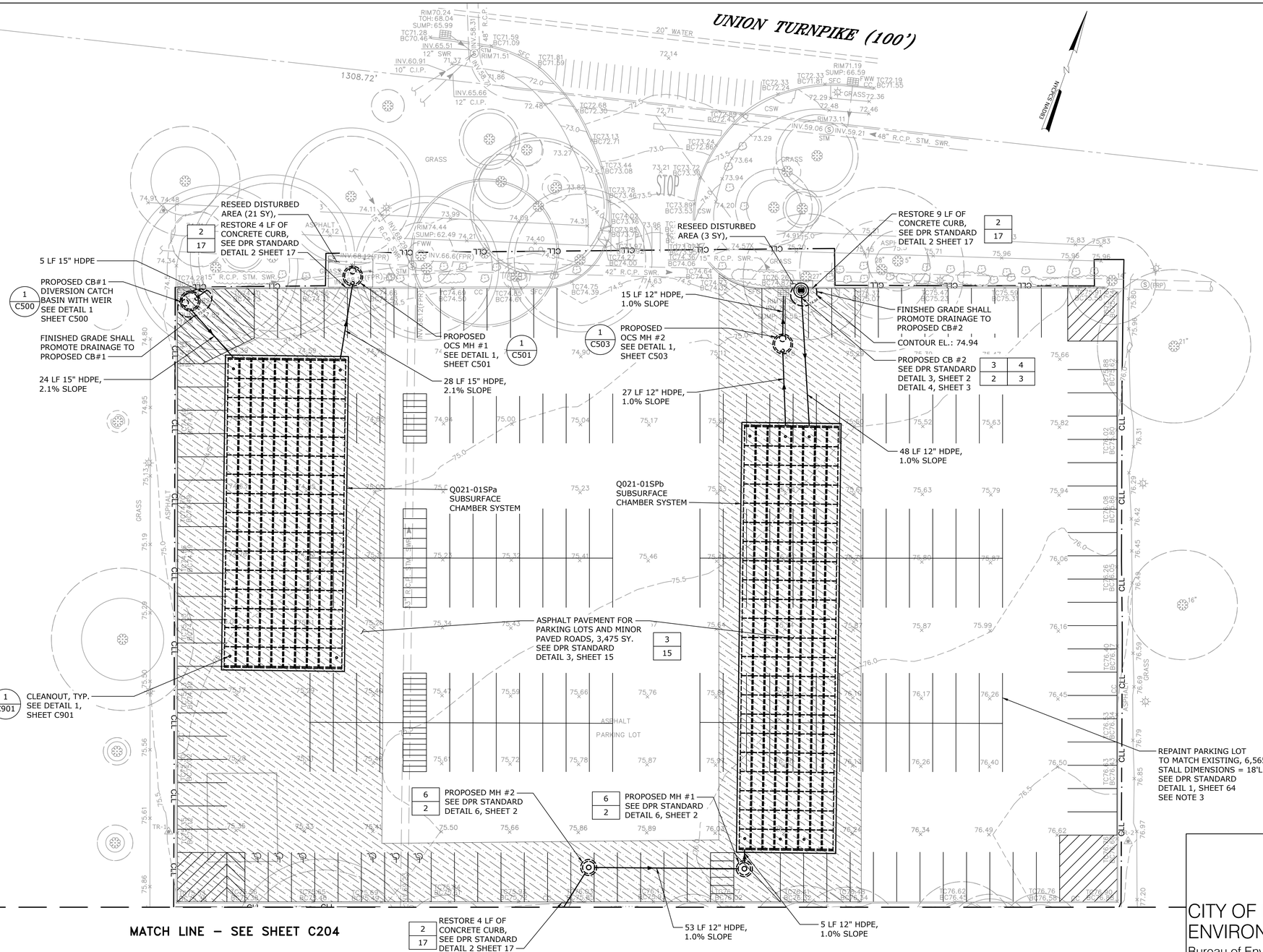
LOT 1

PROJECT TITLE
CUNNINGHAM PARK 196TH
PLACE PARKING ON-SITE
GREEN INFRASTRUCTURE

DRAWING TITLE
PROPOSED TRIBUTARY DRAINAGE AREA PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
J. BRENNAN	D. THOMAS	A. EASON

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 30'	C202	GI-CONS-6
	DATE NOV 2026		SHEET No. 11 OF 23 SHEETS



PLAN
SCALE: 1" = 20'

TABLE 4.6(d) – CONSTRUCTION SEQUENCING			
PHASE #1			
STAGE # 4: Proposed Cover, Materials, and Final Stabilization			
CONSTRUCTION ACTIVITY (in sequential order)	**PRACTICE(S) INSTALLED PRIOR TO ACTIVTY[1]**	**PRACTICE(S) INSTALLED DURING ACTIVTY**	**PRACTICE(S) INSTALLED WITHIN ONE BUSINESS DAY OF COMPLETING ACTIVTY[1]**
Final site plantings	All Stage 1 and 2 measures	Permanent construction area seeding, mulching, topsoil	
Restore pavement, curbs, and sidewalks	All Stage 1 and 2 measures Concrete washout	Site pollution prevention	
Repainting of tennis court color seat coat and restriping of parking lot		Site pollution prevention	
Remove temporary erosion control measures and clean any sedimentation in the pavement, structures, and drainage pipes within the parking lot and tennis court		Site pollution prevention	

LEGEND

- FULL DEPTH PAVEMENT RESTORATION
- RESTORATION SEED MIX
- PROPOSED GREEN INFRASTRUCTURE PRACTICE
- PROPOSED CLEANOUT
- PROPOSED STORM DRAIN
- PROPOSED MANHOLE
- PROPOSED CATCH BASIN
- PROPOSED OUTLET CONTROL STRUCTURE

FOR SWPPP PERMITTING PURPOSES FULL DEPTH ASPHALT RESTORATION SHALL BE CONSIDERED AN IMPERVIOUS SURFACE. RESTORATION SEED MIX AREAS SHALL BE CONSIDERED PERVIOUS. NO CHANGE IN IMPERVIOUS AND PERVIOUS COVER IS PROPOSED AS PART OF THIS PROJECT.

SCALE: 1" = 20'

NOTES:

1. LAYOUT AND MATERIAL NOTES CAN BE FOUND ON THE SHEET G002 - GENERAL NOTES.
2. DRAWINGS ARE ROTATED 340 DEGREES FROM TRUE NORTH.
3. THE PARKING LOT IS TO BE REPAINTED TO MATCH THE EXISTING STRIPING LAYOUT, INCLUDING ALL ADA PARKING SPACES AND NO PARKING ZONES. LINES SHOWN ON DRAWINGS ARE APPROXIMATED AND THE CONTRACTOR IS REQUIRED TO SUBMIT A PAINTING PLAN OF THE ENTIRE PARKING LOT TO NYC PARKS FOR APPROVAL PRIOR TO BEGINNING WORK.

NO.	DATE	ISSUED FOR	BY

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Forestry, Horticulture and Natural Resources

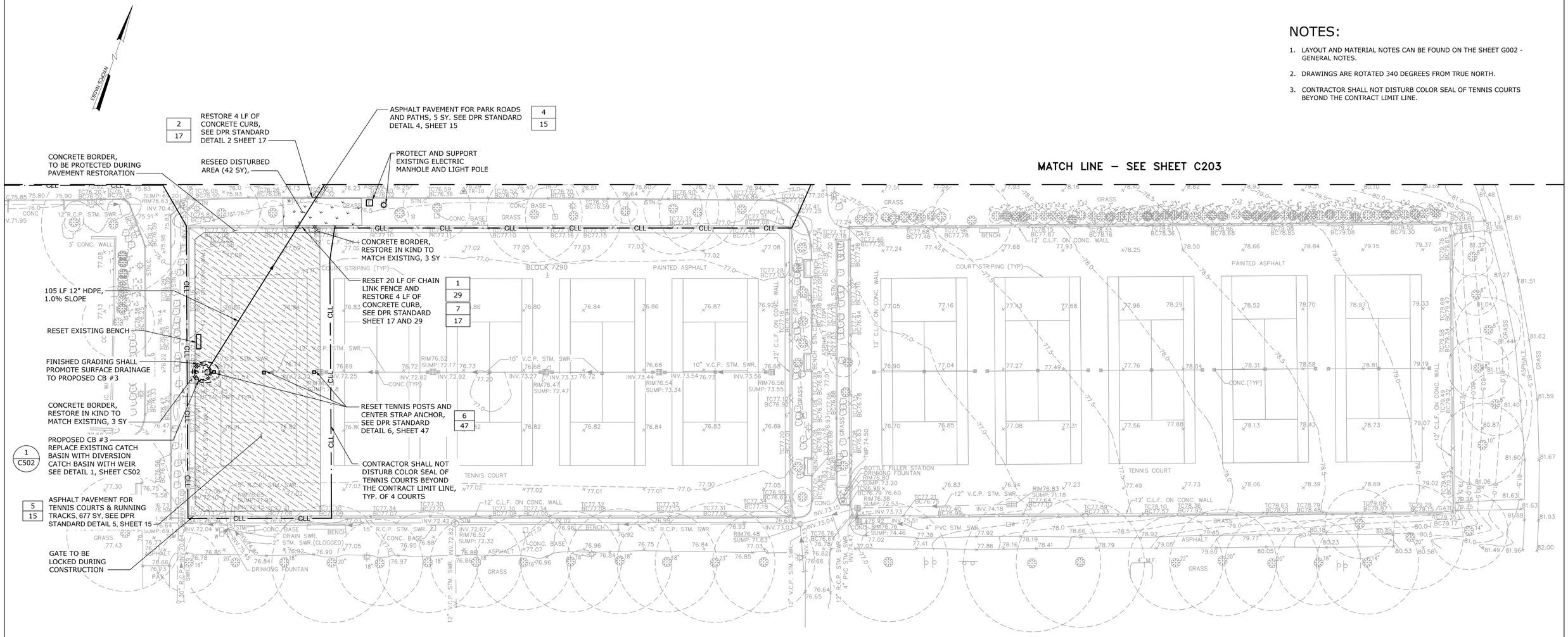
SEAL
STATE OF NEW YORK · SANDEEP MEHROTRA · 073626 · LICENSED PROFESSIONAL ENGINEER
Hazen
BLOCK 7290
LOT 1

PROJECT TITLE
CUNNINGHAM PARK 196TH
PLACE PARKING ON-SITE
GREEN INFRASTRUCTURE

DRAWING TITLE
PROPOSED MATERIALS, AND FINAL STABILIZATION PLAN - 1

DESIGNED BY	DRAWN BY	CHECKED BY
J. BRENNAN	D. THOMAS	A. EASON

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 20'	C203	GI-CONS-6
	DATE NOV 2026		SHEET No. 12 OF 23 SHEETS



NOTES:

1. LAYOUT AND MATERIAL NOTES CAN BE FOUND ON THE SHEET G002 - GENERAL NOTES.
2. DRAWINGS ARE ROTATED 340 DEGREES FROM TRUE NORTH.
3. CONTRACTOR SHALL NOT DISTURB COLOR SEAL OF TENNIS COURTS BEYOND THE CONTRACT LIMIT LINE.

PLAN

SCALE: 1" = 20'

SCALE: 1" = 20'

TABLE 4.6(d) – CONSTRUCTION SEQUENCING			
PHASE #1			
STAGE # 4: Proposed Cover, Materials, and Final Stabilization			
CONSTRUCTION ACTIVITY (in sequential order)	**PRACTICE(S) INSTALLED PRIOR TO ACTIVTY[1]**	**PRACTICE(S) INSTALLED DURING ACTIVTY**	**PRACTICE(S) INSTALLED WITHIN ONE BUSINESS DAY OF COMPLETING ACTIVTY[1]**
Final site plantings	All Stage 1 and 2 measures	Permanent construction area seeding, mulching, topsoil	
Restore pavement, curbs, and sidewalks	All Stage 1 and 2 measures Concrete washout	Site pollution prevention	
Repainting of tennis court color seat coat and restriping of parking lot		Site pollution prevention	
Remove temporary erosion control measures and clean any sedimentation in the pavement, structures, and drainage pipes within the parking lot and tennis court		Site pollution prevention	

LEGEND

- CONCRETE RESTORATION
- FULL DEPTH PAVEMENT RESTORATION
- PROPOSED STORM DRAIN
- RESTORATION SEED MIX
- FENCE TO BE RESTORED
- PROPOSED MANHOLE
- PROPOSED OVERLFOW CONTROL STRUCTURE CATCH BASIN

FOR SWPPP PERMITTING PURPOSES FULL DEPTH ASPHALT RESTORATION SHALL BE CONSIDERED AN IMPERVIOUS SURFACE. RESTORATION SEED MIX AREAS SHALL BE CONSIDERED PERVIOUS. NO CHANGE IN IMPERVIOUS AND PERVIOUS COVER IS PROPOSED AS PART OF THIS PROJECT.

NO.	DATE	ISSUED FOR	BY

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Hazen

BLOCK 7290

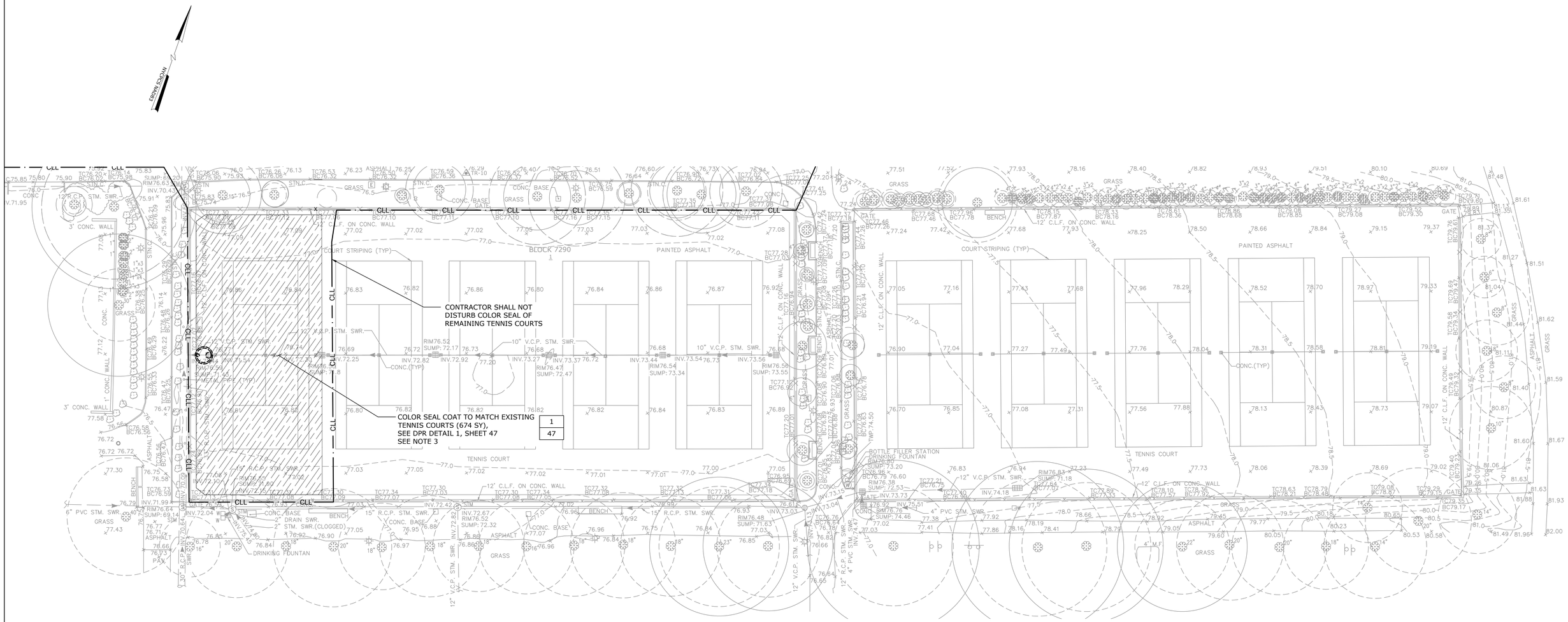
LOT 1

PROJECT TITLE
CUNNINGHAM PARK 196TH
PLACE PARKING ON-SITE
GREEN INFRASTRUCTURE

DRAWING TITLE
PROPOSED MATERIALS, AND FINAL STABILIZATION PLAN - 2

DESIGNED BY	DRAWN BY	CHECKED BY
J. BRENNAN	D. THOMAS	A. EASON

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 20'	C204	GI-CONS-6
	DATE NOV 2026		SHEET No. 13 OF 23 SHEETS



PLAN
SCALE: 1" = 20'

SCALE: 1" = 20'

NOTES:

1. LAYOUT AND MATERIAL NOTES CAN BE FOUND ON THE SHEET G002 - GENERAL NOTES.
2. DRAWINGS ARE ROTATED 340 DEGREES FROM TRUE NORTH.
3. COLOR SEAL RESTORATION SHALL ONLY BE APPLIED IN A MANNER THAT AVOIDS DISTURBANCE TO THE COLOR SEAL OF THE REMAINING TENNIS COURTS. COLOR SEAL COURT SHOULD MATCH EXISTING CONDITIONS. ANY IMPACT TO THE REMAINING TENNIS COURTS SHALL BE CORRECTED, TO THE SATISFACTION OF THE OWNER, AT THE CONTRACTOR'S EXPENSE.

LEGEND

- PROPOSED COLOR SEAL COAT

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NO.	DATE	ISSUED FOR	BY

SEAL
DEEP P. MERROTRA
STATE OF NEW YORK
083826
LICENSED PROFESSIONAL ENGINEER
Hazen

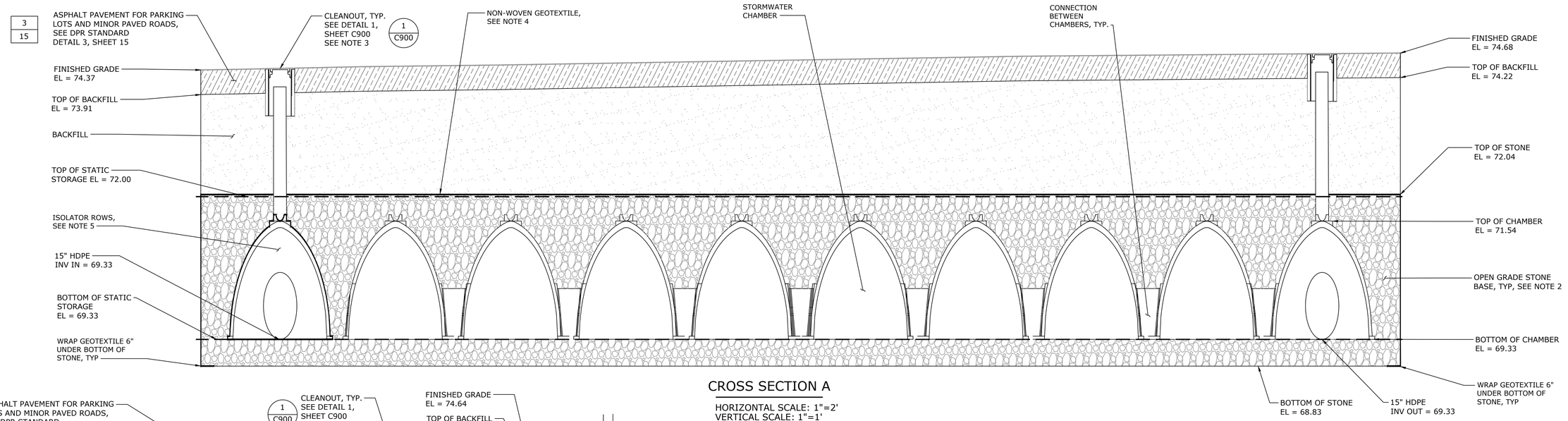
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LOT 1

PROJECT TITLE
CUNNINGHAM PARK 196TH
PLACE PARKING ON-SITE
GREEN INFRASTRUCTURE

DRAWING TITLE
PAINTING PLAN

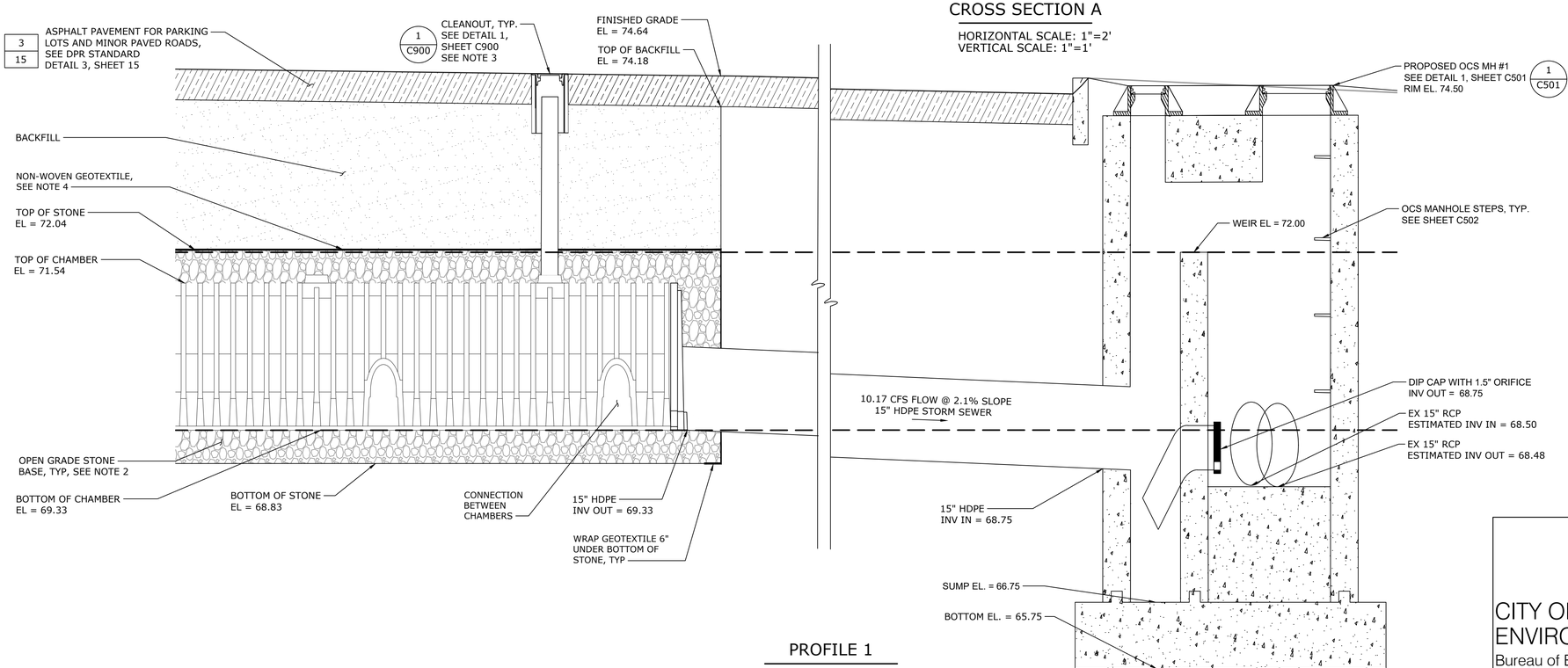
DESIGNED BY	DRAWN BY	CHECKED BY
J. BRENNAN	D. THOMAS	A. EASON

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 20'	C205	GI-CONS-6
	DATE NOV 2026		SHEET No. 14 OF 23 SHEETS



CROSS SECTION A

HORIZONTAL SCALE: 1"=2'
VERTICAL SCALE: 1"=1'



PROFILE 1

HORIZONTAL SCALE: 1"=2'
VERTICAL SCALE: 1"=1'

HORIZONTAL SCALE 0 2' 4' 1"=2'

VERTICAL SCALE 0 1' 2' 1"=1'

NOTES:

1. THE WORK SHOWN HERE IN ITS ENTIRETY IS TO PROVIDE STATIC STORAGE OF 9,602 CF AND IS CALCULATED BETWEEN EL. 72.00 AND EL. 69.33.
2. OPEN GRADED STONE BASE SHALL BE A CLEAN WASHED COURSE AGGREGATE WITH A 40% VOID CONTENT.
3. INSTALL CLEANOUTS FLUSH TO PAVEMENT.
4. INSTALL NON WOVEN GEOTEXTILE ON THE TOP, SIDES, AND FOLD 6" UNDER BOTTOM OF OPEN GRADED STONE.
5. WRAP ISOLATOR ROW OF CHAMBER SYSTEM IN GEOTEXTILE PER MANUFACTURER'S SPECIFICATIONS

NO.	DATE	ISSUED FOR	BY

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Forestry, Horticulture and Natural Resources

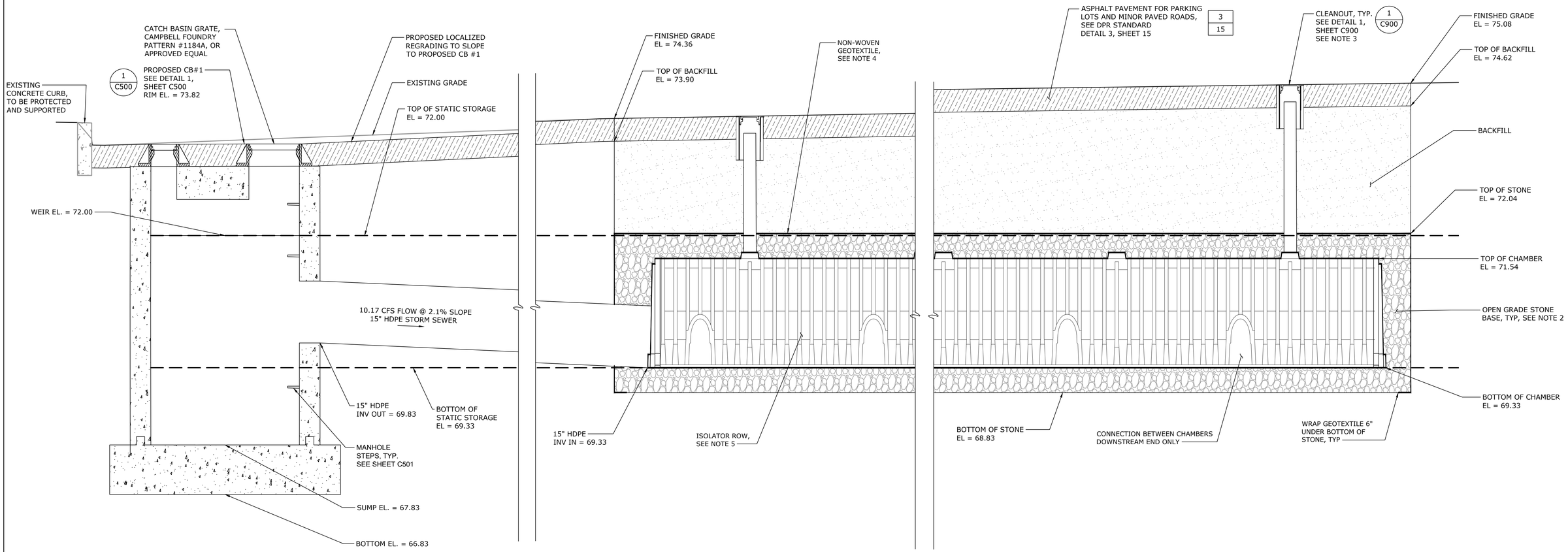
SEAL
STATE OF NEW YORK · DEEP MEHROTRA · 087826 · LICENSED PROFESSIONAL ENGINEER
Hazen
BLOCK 7290
LOT 1

PROJECT TITLE
CUNNINGHAM PARK 196TH
PLACE PARKING ON-SITE
GREEN INFRASTRUCTURE

DRAWING TITLE
SECTIONS AND PROFILES - 1

DESIGNED BY	DRAWN BY	CHECKED BY
J. BRENNAN	D.THOMAS	A. EASON

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	AS SHOWN	C300	GI-CONS-6
	DATE NOV 2026		SHEET No. 15 OF 23 SHEETS



PROFILE 2

HORIZONTAL SCALE: 1"=2'
VERTICAL SCALE: 1"=1'

HORIZONTAL SCALE 0 2' 4' 1"=2'

VERTICAL SCALE 0 1' 2' 1"=1'

NOTES:

1. THE WORK SHOWN HERE IN ITS ENTIRETY IS TO PROVIDE STATIC STORAGE OF 9,602 CF AND IS CALCULATED BETWEEN EL. 72.00 AND EL. 69.33.
2. OPEN GRADED STONE BASE SHALL BE A CLEAN WASHED COURSE AGGREGATE WITH A 40% VOID CONTENT.
3. INSTALL CLEANOUTS FLUSH TO PAVEMENT.
4. INSTALL NON WOVEN GEOTEXTILE ON THE TOP, SIDES, AND FOLD 6" UNDER BOTTOM OF OPEN GRADED STONE.
5. WRAP ISOLATOR ROW OF CHAMBER SYSTEM IN GEOTEXTILE PER MANUFACTURER'S SPECIFICATIONS

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NO.	DATE	ISSUED FOR	BY

SEAL

Hazen

BLOCK 7290

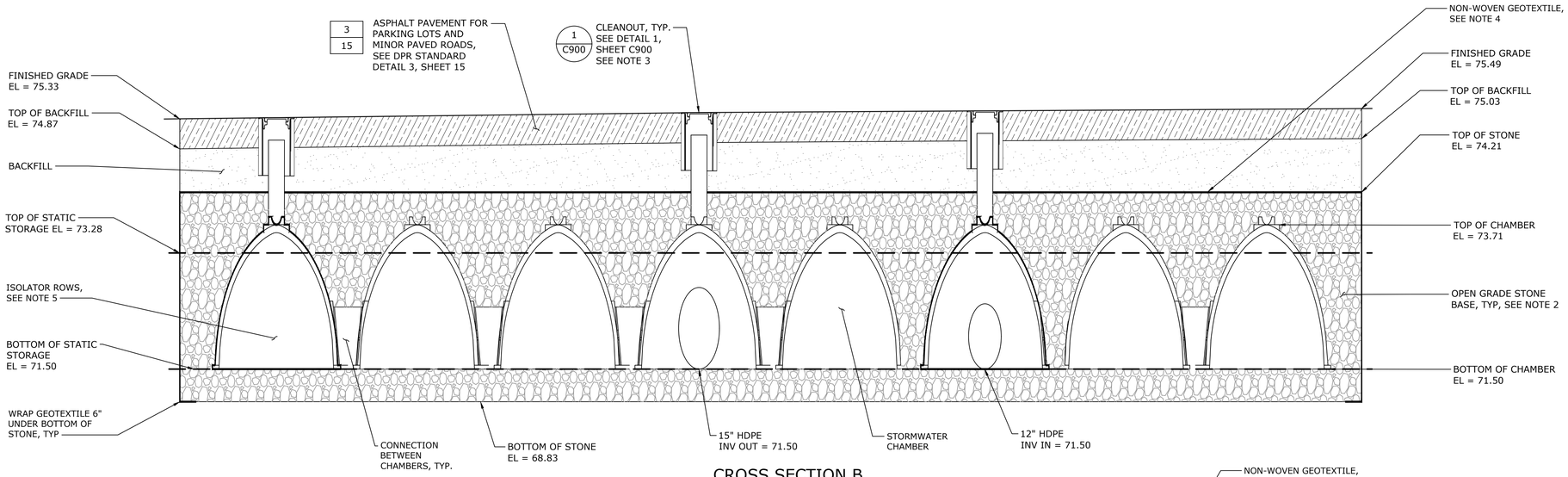
LOT 1

PROJECT TITLE
CUNNINGHAM PARK 196TH PLACE PARKING ON-SITE GREEN INFRASTRUCTURE

DRAWING TITLE
SECTIONS AND PROFILES - 2

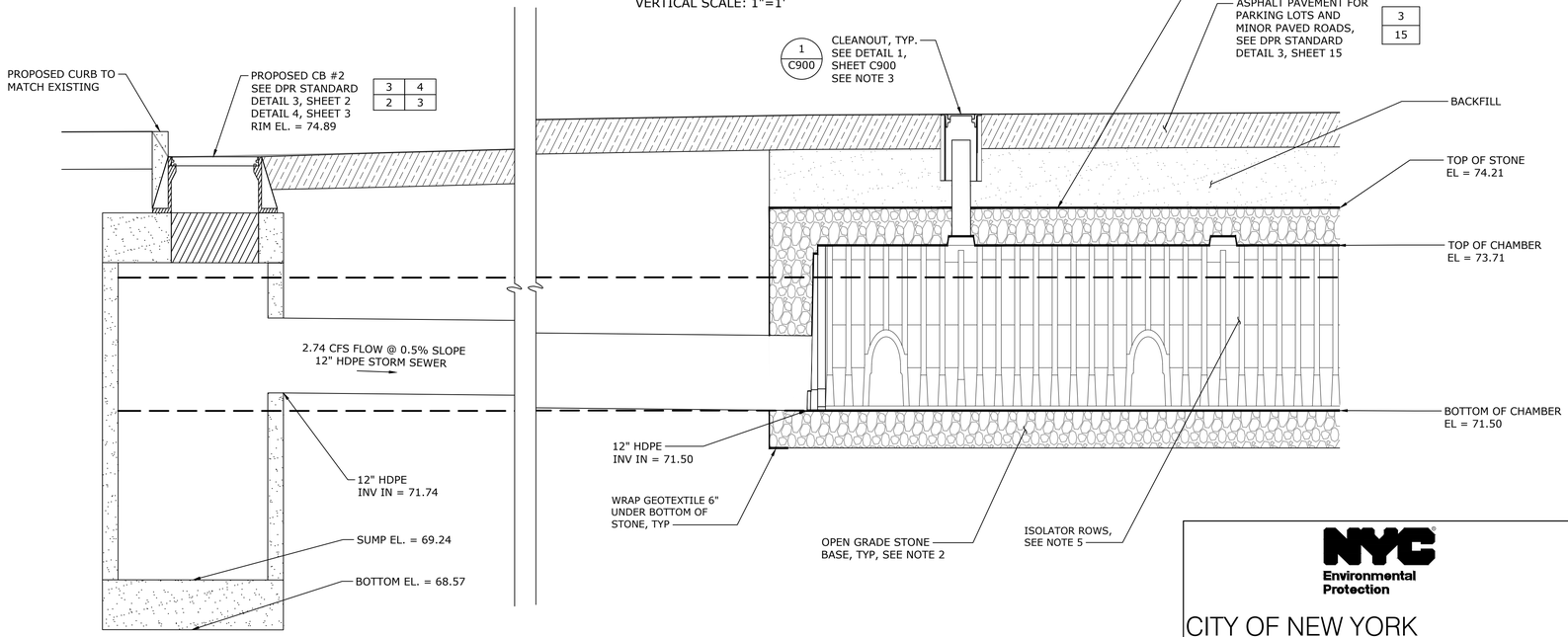
DESIGNED BY	DRAWN BY	CHECKED BY
J. BRENNAN	D.THOMAS	A. EASON

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	AS SHOWN	C301	GI-CONS-6
	DATE NOV 2026		SHEET No. 16 OF 23 SHEETS



CROSS SECTION B

HORIZONTAL SCALE: 1"=2'
VERTICAL SCALE: 1"=1'



PROFILE 3

HORIZONTAL SCALE: 1"=2'
VERTICAL SCALE: 1"=1'

HORIZONTAL SCALE

0 2' 4'
1"=2'

VERTICAL SCALE

0 1' 2'
1"=1'

NOTES:

1. THE WORK SHOWN HERE IN ITS ENTIRETY IS TO PROVIDE STATIC STORAGE OF 8,250 CF AND IS CALCULATED BETWEEN EL. 71.50 AND EL. 73.28.
2. OPEN GRADED STONE BASE SHALL BE A CLEAN WASHED COURSE AGGREGATE WITH A 40% VOID CONTENT.
3. INSTALL CLEANOUTS FLUSH TO PAVEMENT.
4. INSTALL NON WOVEN GEOTEXTILE ON THE TOP, SIDES, AND FOLD 6" UNDER BOTTOM OF OPEN GRADED STONE.
5. WRAP ISOLATOR ROW OF CHAMBER SYSTEM IN GEOTEXTILE PER MANUFACTURER'S SPECIFICATIONS

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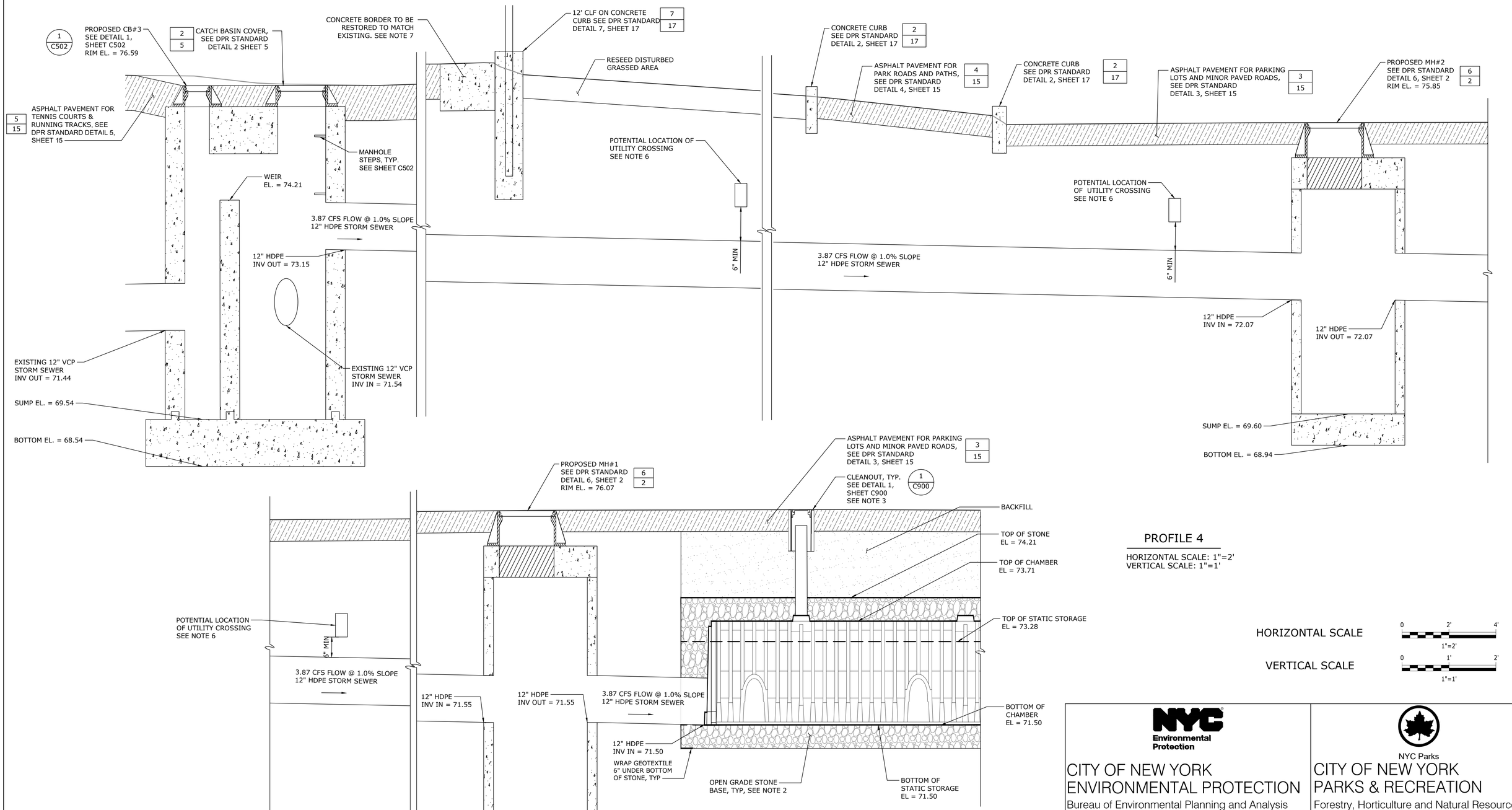
BLOCK 7290
LOT 1

PROJECT TITLE
CUNNINGHAM PARK 196TH
PLACE PARKING ON-SITE
GREEN INFRASTRUCTURE

DRAWING TITLE
SECTIONS AND PROFILES - 3

DESIGNED BY	DRAWN BY	CHECKED BY
J. BRENNAN	D. THOMAS	A. EASON

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	AS SHOWN	C302	GI-CONS-6
	DATE NOV 2026		SHEET No. 17 OF 23 SHEETS



PROFILE 4

HORIZONTAL SCALE: 1"=2'
VERTICAL SCALE: 1"=1'

HORIZONTAL SCALE 0 2' 4' 1"=2'

VERTICAL SCALE 0 1' 2' 1"=1'

NOTES:

1. THE WORK SHOWN HERE IN ITS ENTIRETY IS TO PROVIDE STATIC STORAGE OF 8,250 CF AND IS CALCULATED BETWEEN EL. 71.50 AND EL. 73.28.
2. OPEN GRADED STONE BASE SHALL BE A CLEAN WASHED COURSE AGGREGATE WITH A 40% VOID CONTENT.
3. INSTALL CLEANOUTS FLUSH TO PAVEMENT.
4. INSTALL NON WOVEN GEOTEXTILE ON THE TOP, SIDES, AND FOLD 6" UNDER BOTTOM OF OPEN GRADED STONE.
5. WRAP ISOLATOR ROW OF CHAMBER SYSTEM IN GEOTEXTILE PER MANUFACTURER'S SPECIFICATIONS
6. CONTRACTOR SHALL FIELD VERIFY LOCATION OF UNKNOWN UTILITY CROSSING PRIOR TO SITE EXCAVATION.

NO.	DATE	ISSUED FOR	BY

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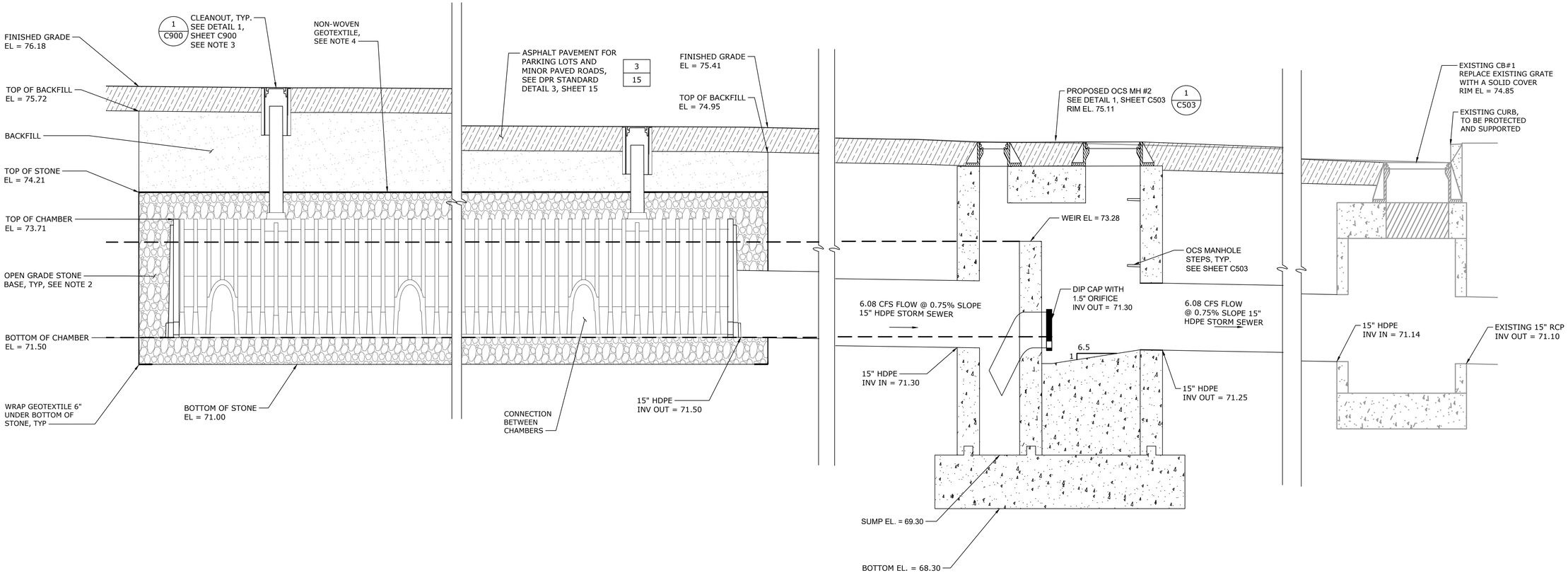
BLOCK 7290
LOT 1

PROJECT TITLE
CUNNINGHAM PARK 196TH
PLACE PARKING ON-SITE
GREEN INFRASTRUCTURE

DRAWING TITLE
SECTIONS AND PROFILES - 4

DESIGNED BY	DRAWN BY	CHECKED BY
J. BRENNAN	D. THOMAS	A. EASON

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	AS SHOWN	C303	GI-CONS-6
	DATE NOV 2026		SHEET No. 18 OF 23 SHEETS



PROFILE 5

HORIZONTAL SCALE: 1"=2'
VERTICAL SCALE: 1"=1'

NOTES:

1. THE WORK SHOWN HERE IN ITS ENTIRETY IS TO PROVIDE STATIC STORAGE OF 8,250 CF AND IS CALCULATED BETWEEN EL. 71.50 AND EL. 73.28.
2. OPEN GRADED STONE BASE SHALL BE A CLEAN WASHED COURSE AGGREGATE WITH A 40% VOID CONTENT.
3. INSTALL CLEANOUTS FLUSH TO PAVEMENT.
4. INSTALL NON WOVEN GEOTEXTILE ON THE TOP, SIDES, AND FOLD 6" UNDER BOTTOM OF OPEN GRADED STONE.

HORIZONTAL SCALE
0 2' 4'
1"=2'

VERTICAL SCALE
0 1' 2'
1"=1'

NO.	DATE	ISSUED FOR	BY

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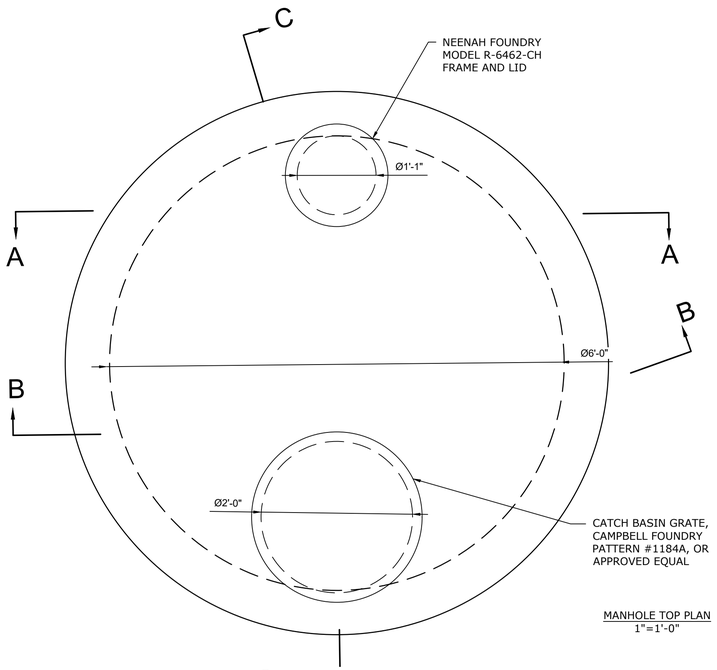
BLOCK 7290
LOT 1

PROJECT TITLE
CUNNINGHAM PARK 196TH
PLACE PARKING ON-SITE
GREEN INFRASTRUCTURE

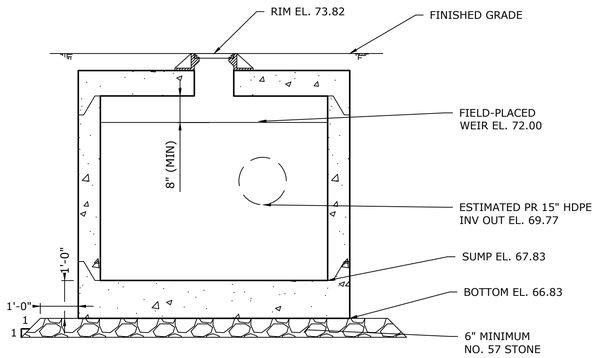
DRAWING TITLE
SECTIONS AND PROFILES - 5

DESIGNED BY	DRAWN BY	CHECKED BY
J. BRENNAN	D. THOMAS	A. EASON

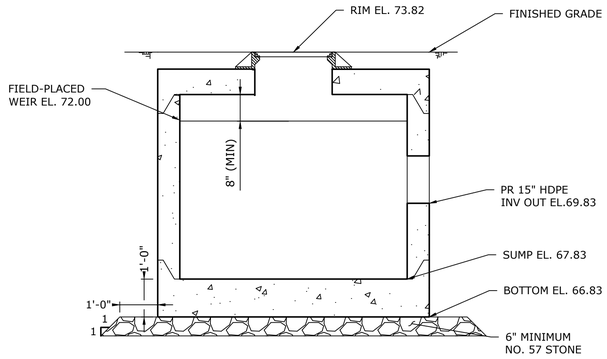
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	AS SHOWN	C304	GI-CONS-6
	DATE NOV 2026		SHEET No. 19 OF 23 SHEETS



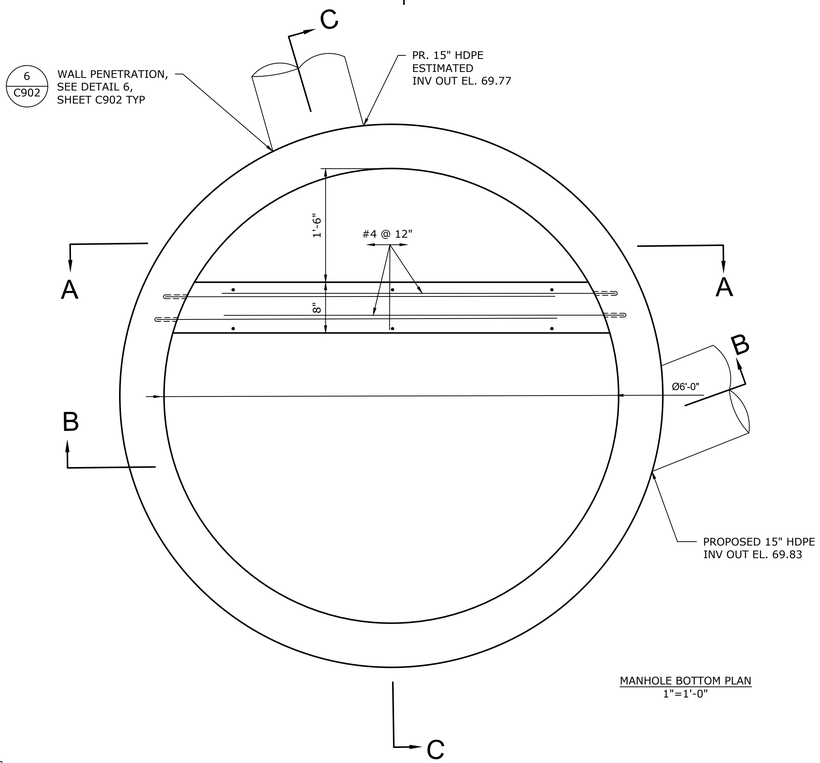
MANHOLE TOP PLAN
1"=1'-0"



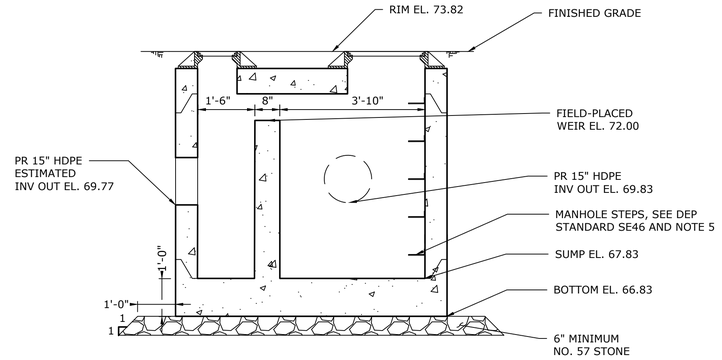
SECTION A-A
1"=2'-0"



SECTION B-B
1"=2'-0"



MANHOLE BOTTOM PLAN
1"=1'-0"



SECTION C-C
1"=2'-0"

NOTES:

1. CONTRACTOR TO VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
2. REFER TO DETAILS 1-6 ON SHEET C902.
3. SEE GENERAL STRUCTURAL NOTES AND CONCRETE NOTES ON SHEET C902.
4. THIS STRUCTURE FUNCTIONS AS AN INFLOW DIVERSION STRCUTURE, AND SHALL BE PAID AS AN OVERFLOW CONTROL STRUCTURE.
5. RUNGS SHOULD BE LOCATED 3" OFFSET FROM THE TOP SLAB OF THE MANHOLE, AND REPEAT EVERY 12".

1 / C500 CB #1 - DIVERSION CB WITH WEIR
AS SHOWN

NO.	DATE	ISSUED FOR	BY

NYC Environmental Protection

CITY OF NEW YORK
ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis

NYC Parks

CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

SEAL
STATE OF NEW YORK
DEEPAK MEHROTRA
LICENSED PROFESSIONAL ENGINEER
Hazen
BLOCK 7290
LOT 1

PROJECT TITLE
CUNNINGHAM PARK 196TH
PLACE PARKING ON-SITE
GREEN INFRASTRUCTURE

DRAWING TITLE
DETAILS - 1

DESIGNED BY	DRAWN BY	CHECKED BY
J. BRENNAN	D. THOMAS	A. EASON

B-SCAN

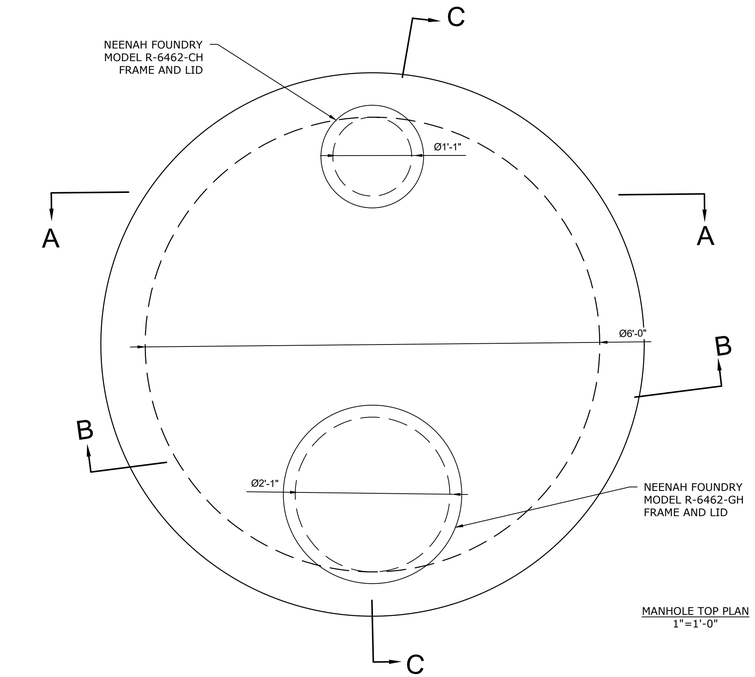
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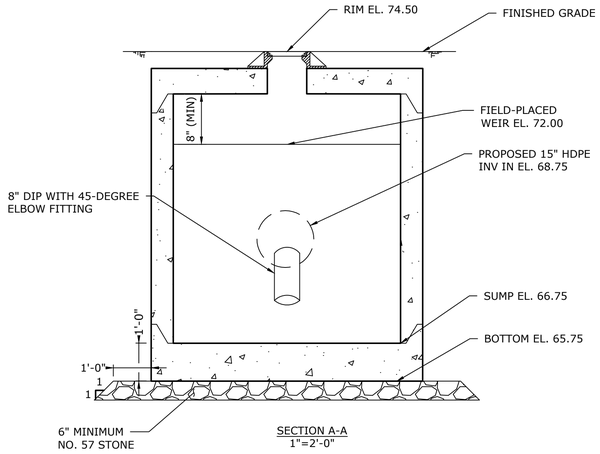
DATE NOV 2026

CONTRACT NO. GI-CONS-6

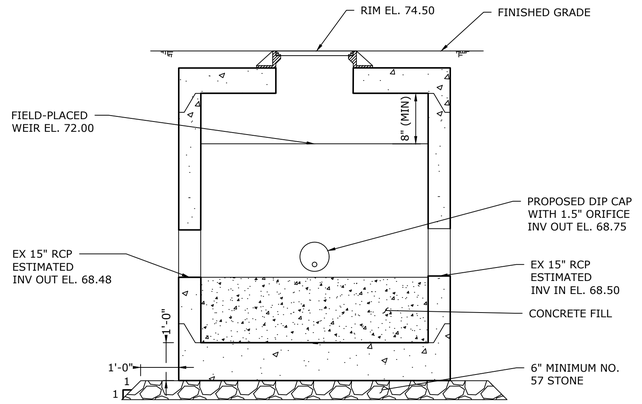
SHEET No. 20 OF 23 SHEETS



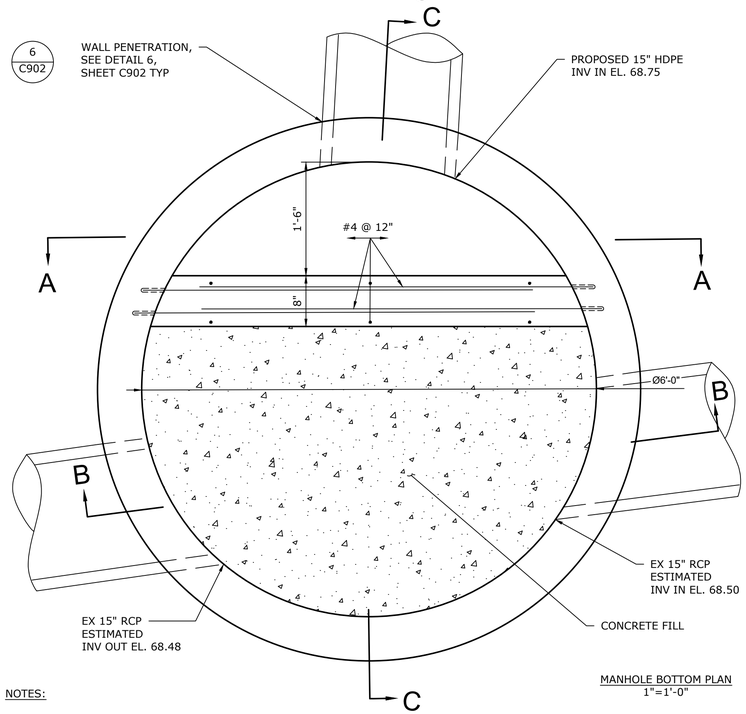
MANHOLE TOP PLAN
1"=1'-0"



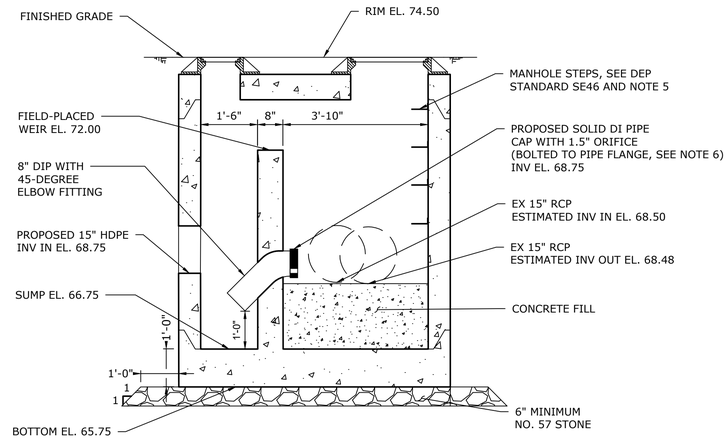
SECTION A-A
1"=2'-0"



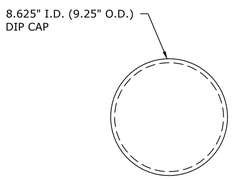
SECTION B-B
1"=2'-0"



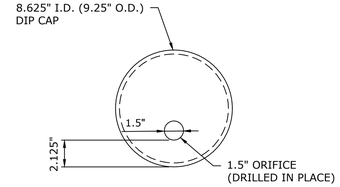
MANHOLE BOTTOM PLAN
1"=1'-0"



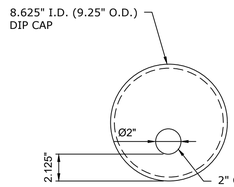
SECTION C-C
1"=2'-0"



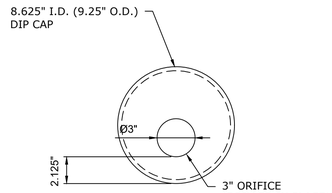
ORIFICE CAP
1"=0'-6"
FURNISH AND DELIVER 2 - SOLID ORIFICE CAPS
INSTALL 1 SOLID ORIFICE CAP



ORIFICE CAP
1"=0'-6"
DRILL 1 - 1.5" ORIFICE



ORIFICE CAP
1"=0'-6"
PLACEMENT OF 1 - 2" ORIFICE CAP IF NEEDED



ORIFICE CAP
1"=0'-6"
PLACEMENT OF 1 - 3" ORIFICE CAP IF NEEDED

NOTES:

1. CONTRACTOR SHALL SUPPLY TWO (2) SOLID, BOLT-ON CAPS FOR THE PROJECT. ONE (1) SOLID CAP SHALL BE INSTALLED IN THE FIELD. FOLLOWING INSTALLATION, THE 1.5" ORIFICE SHALL BE DRILLED AT THE ORIENTATION AND LOCATION ON THE CAP SPECIFIED IN THE DETAILS ON THIS SHEET. THE REMAINING SOLID CAP SHALL BE TURNED OVER TO NYCDEP FOR FUTURE USE.
2. CONTRACTOR TO VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
3. REFER TO DETAILS 1-6 ON SHEET C902.
4. SEE GENERAL STRUCTURAL NOTES AND CONCRETE NOTES ON SHEET C902.
5. RUNGS SHOULD BE LOCATED 3" OFFSET FROM THE TOP SLAB OF THE MANHOLE, AND REPEAT EVERY 12".
6. BOLTS SHALL BE INSTALLED SO THAT THE BOLT HEAD IS ON THE WEIR WALL SIDE

1
C501

OCS MH #1 - MANHOLE WITH WEIR AND ORIFICE CAP DETAILS

AS SHOWN

NO.	DATE	ISSUED FOR	BY

NYC Environmental Protection

CITY OF NEW YORK
ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis

NYC Parks

CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

SEAL

STATE OF NEW YORK — DANDEEP MEHROTRA — 075878 — LICENSED PROFESSIONAL ENGINEER

Hazen

BLOCK 7290

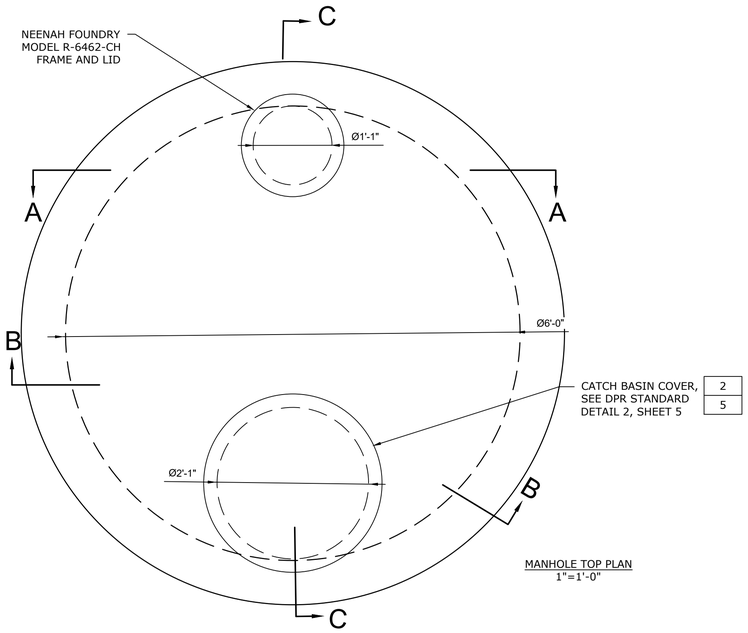
LOT 1

PROJECT TITLE
CUNNINGHAM PARK 196TH
PLACE PARKING ON-SITE
GREEN INFRASTRUCTURE

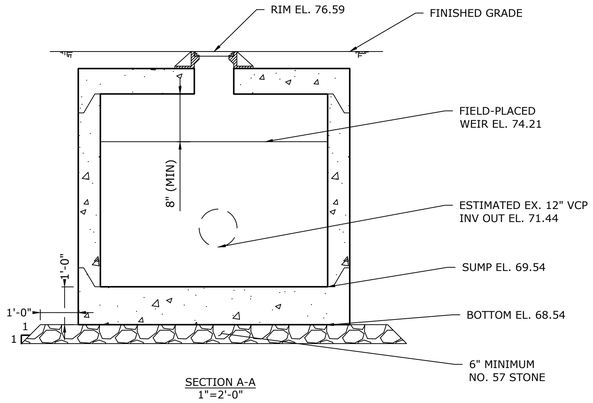
DRAWING TITLE
DETAILS - 2

DESIGNED BY	DRAWN BY	CHECKED BY
J. BRENNAN	D. THOMAS	A. EASON

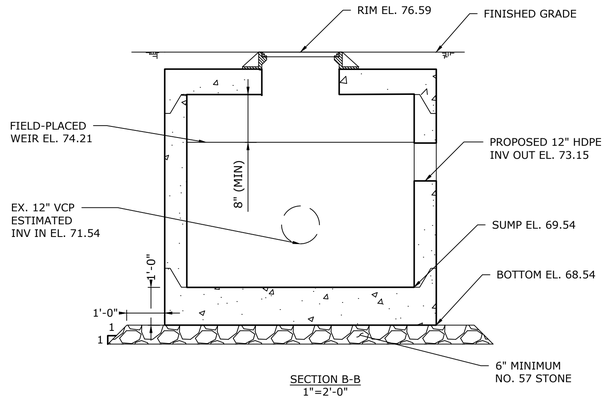
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	N/A	C501	GI-CONS-6
	DATE NOV 2026		SHEET No. 21 OF 23 SHEETS



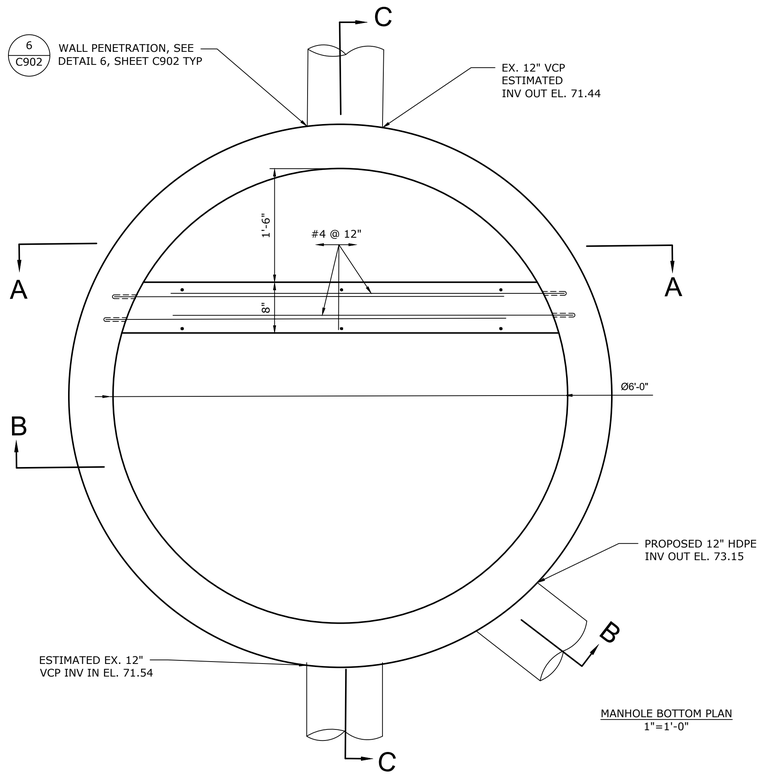
MANHOLE TOP PLAN
1"=1'-0"



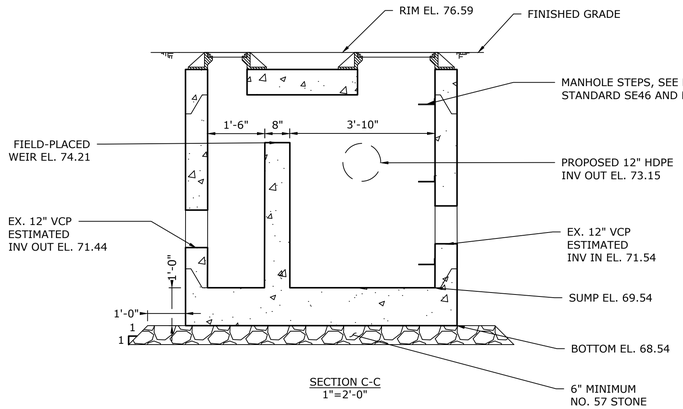
SECTION A-A
1"=2'-0"



SECTION B-B
1"=2'-0"



MANHOLE BOTTOM PLAN
1"=1'-0"



SECTION C-C
1"=2'-0"

1 / C502 CB #3 - DIVERSION CB WITH WEIR
AS SHOWN

NOTES:

1. CONTRACTOR TO VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
2. REFER TO DETAILS 1-6 ON SHEET C902.
3. SEE GENERAL STRUCTURAL NOTES AND CONCRETE NOTES ON SHEET C902.
4. THIS STRUCTURE FUNCTIONS AS AN DIVERSION STRUCTURE, AND SHALL BE PAID AS AN OVERFLOW CONTROL STRUCTURE.
5. RUNGS SHOULD BE LOCATED 3" OFFSET FROM THE TOP SLAB OF THE MANHOLE, AND REPEAT EVERY 12".

NO.	DATE	ISSUED FOR	BY

NYC Environmental Protection

CITY OF NEW YORK
ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis

NYC Parks

CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

SEAL

STATE OF NEW YORK · DEEP MEHROTRA · 091676 · LICENSED PROFESSIONAL ENGINEER

Hazen

BLOCK 7290
LOT 1

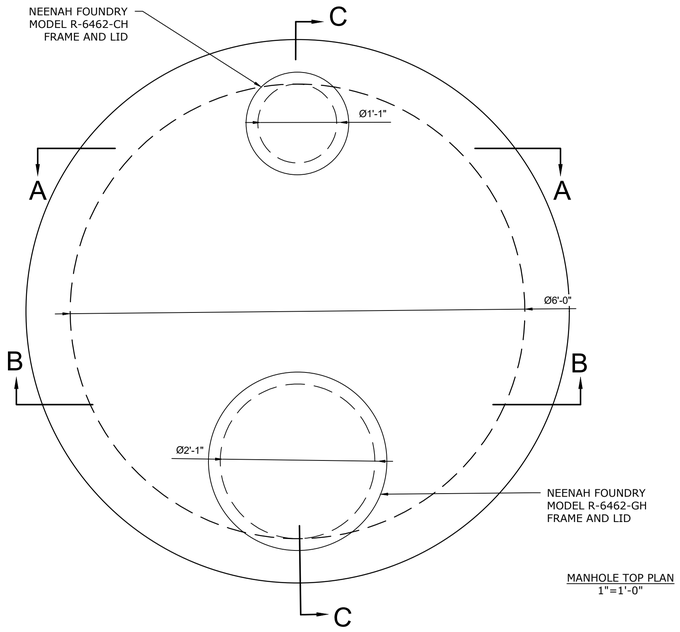
PROJECT TITLE
CUNNINGHAM PARK 196TH
PLACE PARKING ON-SITE
GREEN INFRASTRUCTURE

DRAWING TITLE
DETAILS - 3

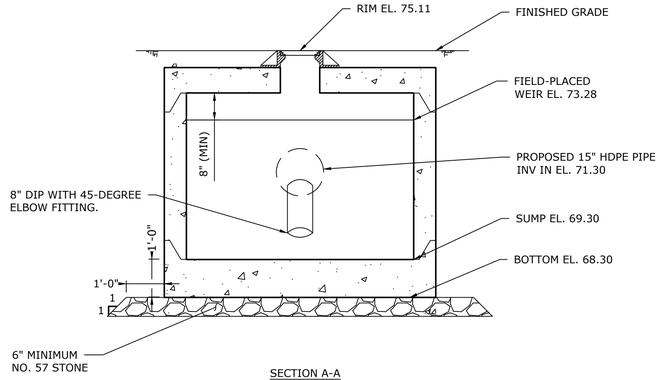
DESIGNED BY	DRAWN BY	CHECKED BY
J. BRENNAN	D. THOMAS	A. EASON

B-SCAN

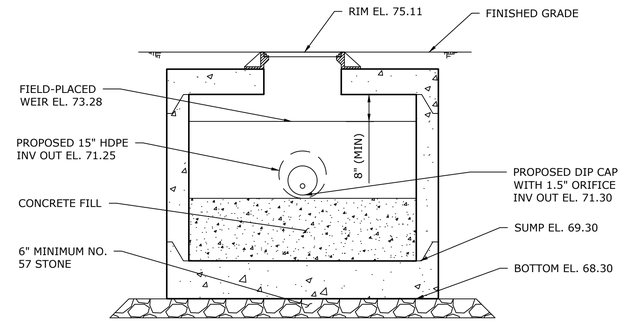
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DRAWING NO. C502
DATE NOV 2026
CONTRACT NO. GI-CONS-6
SHEET No. 22 OF 23 SHEETS



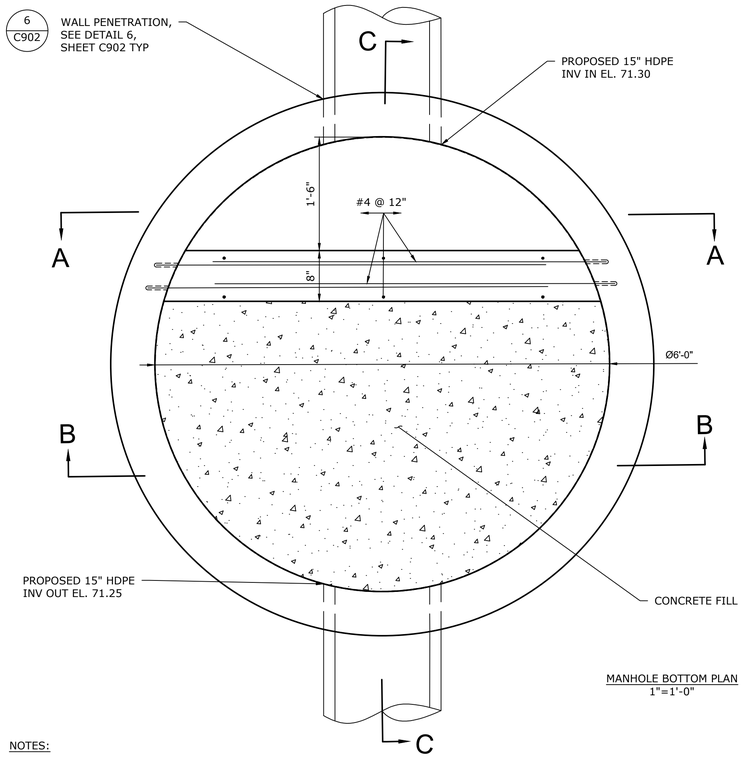
MANHOLE TOP PLAN
1"=1'-0"



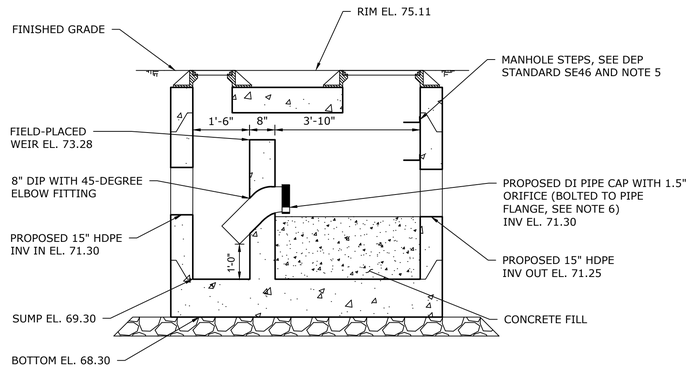
SECTION A-A
1"=2'-0"



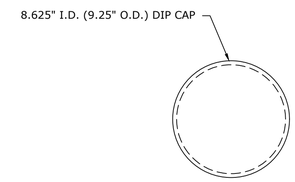
SECTION B-B
1"=2'-0"



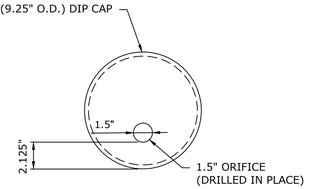
MANHOLE BOTTOM PLAN
1"=1'-0"



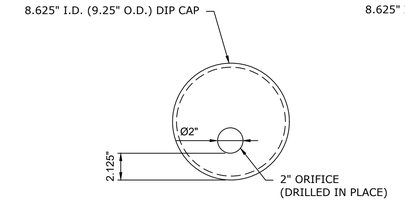
SECTION C-C
1"=2'-0"



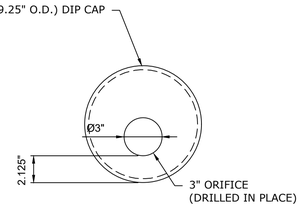
ORIFICE CAP
1"=0'-6"
FURNISH AND DELIVER 2 - SOLID ORIFICE CAPS
INSTALL 1 SOLID ORIFICE CAP



ORIFICE CAP
1"=0'-6"
DRILL 1 - 1.5" ORIFICE



ORIFICE CAP
1"=0'-6"
PLACEMENT OF 1 - 2" ORIFICE CAP IF NEEDED



ORIFICE CAP
1"=0'-6"
PLACEMENT OF 1 - 3" ORIFICE CAP IF NEEDED

NOTES:

1. CONTRACTOR SHALL SUPPLY TWO (2) SOLID, BOLT-ON CAPS FOR THE PROJECT. ONE (1) SOLID CAP SHALL BE INSTALLED IN THE FIELD. FOLLOWING INSTALLATION, THE 1.5" ORIFICE SHALL BE DRILLED AT THE ORIENTATION AND LOCATION ON THE CAP SPECIFIED IN THE DETAILS ON THIS SHEET. THE REMAINING SOLID CAP SHALL BE TURNED OVER TO NYCDEP FOR FUTURE USE.
2. CONTRACTOR TO VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
3. REFER TO DETAILS 1-6 ON SHEET C902.
4. SEE GENERAL STRUCTURAL NOTES AND CONCRETE NOTES ON SHEET C902.
5. RUNGS SHOULD BE LOCATED 3" OFFSET FROM THE TOP SLAB OF THE MANHOLE, AND REPEAT EVERY 12".
6. BOLTS SHALL BE INSTALLED SO THAT THE BOLT IS ON THE WEIR WALL SIDE.

1 / C503 OCS MH #2 - MANHOLE WITH WEIR AND ORIFICE CAP DETAILS
AS SHOWN

NO.	DATE	ISSUED FOR	BY

NYC Environmental Protection

CITY OF NEW YORK
ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis

NYC Parks

CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

SEAL
STATE OF NEW YORK — ANDEEP MEHROTRA — 075878 — LICENSED PROFESSIONAL ENGINEER

Hazen

BLOCK 7290
LOT 1

PROJECT TITLE
CUNNINGHAM PARK 196TH
PLACE PARKING ON-SITE
GREEN INFRASTRUCTURE

DRAWING TITLE
DETAILS - 4

DESIGNED BY	DRAWN BY	CHECKED BY
J. BRENNAN	D. THOMAS	A. EASON

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	N/A	C503	GI-CONS-6
	DATE NOV 2026		SHEET No. 23 OF 23 SHEETS

NEW YORK CITY ENVIRONMENTAL PROTECTION
BUREAU OF ENVIRONMENTAL PLANNING & ANALYSIS

NYC Environmental Protection

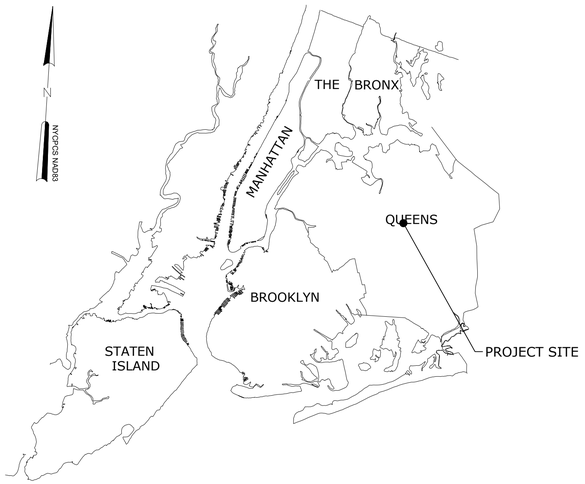
NYC Parks

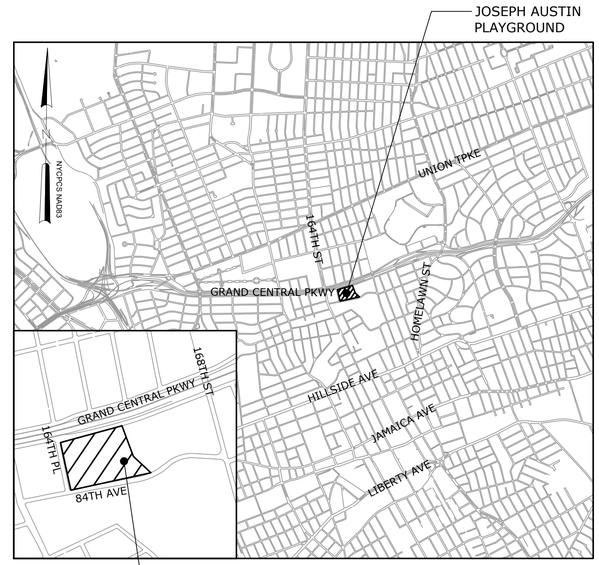
ON-SITE GREEN INFRASTRUCTURE
TALLMAN ISLAND CSO TRIBUTARY AREA
OUTFALL TI-010
DEP CAPITAL CONTRACT NO. GI-CONS-6

Q391 JOSEPH AUSTIN PLAYGROUND
BBL 4098670002

QUEENS, NY

BID SET
NOVEMBER 2026





LOCATION PLAN

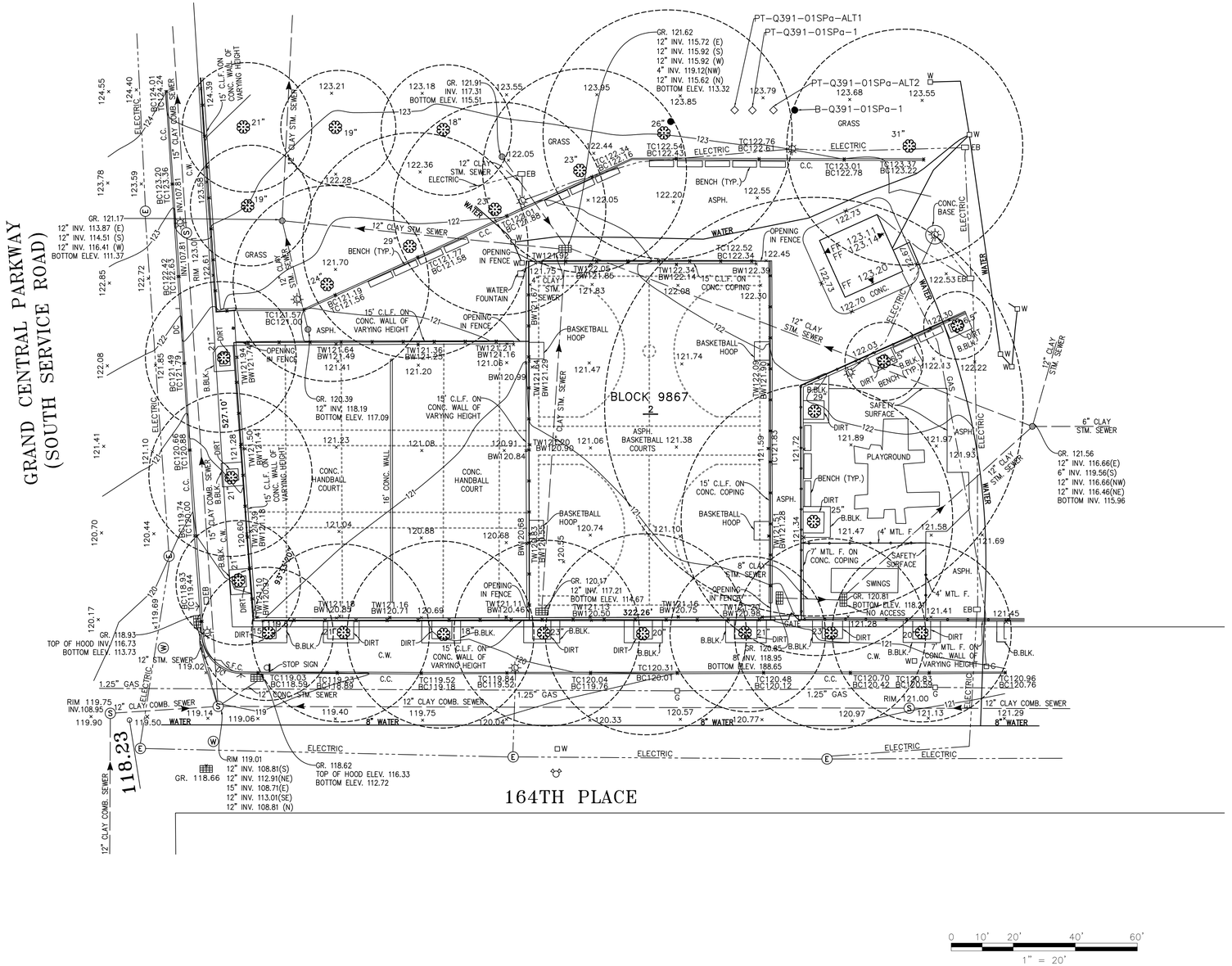
SHEET LIST TABLE	
DRAWING NUMBER	SHEET TITLE
G001	COVER
T-1	TOPOGRAPHIC & UTILITY SURVEY PLAN
C100	TREE PROTECTION PLAN, STAGING AND ACCESS
C101	REMOVAL AND DEMOLITION PLAN
C200	PROPOSED GREEN INFRASTRUCTURE LAYOUT PLAN
C202	MATERIALS PLAN
C300	SECTIONS AND PROFILES - 1
C301	SECTIONS AND PROFILES - 2
C500	DETAILS - 1
C501	DETAILS - 2

John McLaughlin — Digitally signed by John McLaughlin Date: 2026.11.03 09:32:52 -05'00'

JOHN MCLAUGHLIN
MANAGING DIRECTOR
OFFICE OF ECOSYSTEM SERVICES, GREEN INFRASTRUCTURE AND RESEARCH
BUREAU OF ENVIRONMENTAL PLANNING & ANALYSIS, NYCDEP

Lisa F. Garcia — Digitally signed by Lisa F. Garcia Date: 2026.11.02 15:42:48 -05'00'

LISA F. GARCIA
COMMISSIONER
NYCDEP



Notes:

1. The existing conditions shown on this plan are based upon an actual on-the-ground instrument survey completed by GdB Geospatial LS, PC in July of 2021.

2. The locations of existing underground utilities shown on this plan are based on field observations and information of record. They are not warranted to be exactly located nor is it warranted that all underground utilities or other structures are shown on this plan.

3. Horizontal datum is North American Datum 1983 (2011) Epoch 2010.00 (New York State Plane Coordinate System, Long Island Zone). All linear measurements are in U.S. Survey Feet.

4. Vertical datum is North American Vertical Datum 1988. To convert this Datum to Queens Highway Datum, subtract 1.625 feet from each elevation.

Utility Notes:

1. Existing subsurface utility features have been depicted in accordance with CI/ASCE 38-02, "American Society of Civil Engineers, Standard Guideline for The Collection and Depiction of Existing Subsurface Utility Data". This standard has established four distinct quality levels of utility mapping (Quality Level B was used for this survey).
   - Quality Level D - information derived from existing records or oral recollections.
   - Quality Level C - information obtained by surveying and plotting visible above-ground utility features and by using professional judgement in correlating this information to Quality Level D information.
   - ***Quality Level B*** - information obtained through the application of appropriate surface geophysical methods to determine the existence and approximate horizontal position of subsurface utilities. This information is surveyed to applicable tolerances defined by the project and reduced onto plan documents. Professional judgment is used in correlating this information to Quality Level C and D information.
   - Quality Level A - horizontal and vertical location of utilities obtained by the actual exposure (or verification of previously exposed and surveyed utilities) and subsequent measurement of subsurface utilities, usually at a specific point. Professional judgement is used in correlating this information to Quality Level B, C and D information.
2. The surveyor makes no guarantee or warranty that the underground utilities depicted comprise all such utilities in the area, either in service or abandoned. The surveyor further does not guarantee or warrant that the underground utilities depicted are in the exact location indicated. Utilities are depicted in accordance with the standard of care, from information available.
3. The contractor shall utilize "Call Before You Dig", "One Call", or local equivalent prior to excavation, for the purpose of verifying the subsurface utility in the area. In the areas where the "Call Before You Dig", "One Call", or local equivalent does not respond, the contractor shall verify the locations of the existing utilities, in accordance with the owner's contract and all applicable laws and regulations, including OSHA.
4. Individual components of utilities and related structures may exist above or below grade on or near the structures and may not be depicted. These may include but are not limited to ground wires, structural support, and cathodic protection. The contractor shall 1) Contact the owner of the utility prior to excavation for instruction regarding hazards associated with, and specific precautions to be utilized when working at or near, such facilities and 2) Exercise the appropriate standard of care required in accordance with all applicable laws and regulations, including OSHA, when excavating in the vicinity of a utility and/or its related structures.

STATE OF NEW YORK · MICHAEL M. LEWIS · 050842 · LICENSED LAND SURVEYOR

MICHAEL M. LEWIS, L.S. DATE
N.Y.S. L.S. No. 050842
Michael.Lewis@SAM.BIZ

Unauthorized alteration or addition to this survey is a violation of section 7209 of the New York State Education Law. Copies of this survey map not bearing the land surveyor's inked seal or embossed seal shall not be considered valid true copies. Certifications indicated herein shall run only to the person for whom the survey map is prepared, and on his behalf to the title company, governmental agency and lending institution. Certifications are not transferable to additional institutions or subsequent owners.

NO.	DATE	ISSUED FOR	BY

DESIGNED _____
DRAWN _____
CHECKED _____
PROJ.ENGR. _____

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.

GdB Geospatial

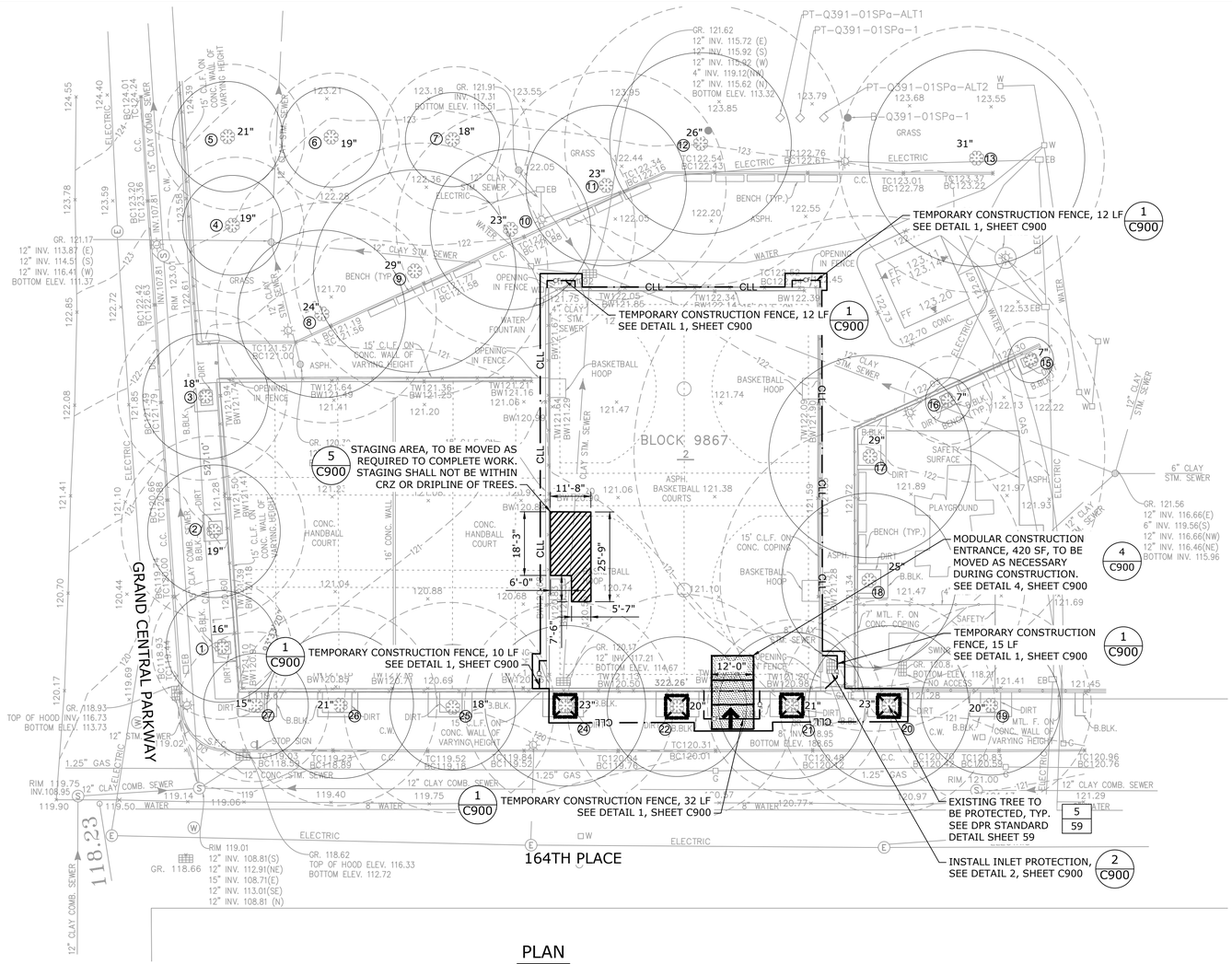
APPROVED FOR THE CITY OF NEW YORK
_____ P.E.
PROJECT MANAGER

NYC Environmental Protection

CITY OF NEW YORK
ENVIRONMENTAL PROTECTION
OFFICE OF GREEN INFRASTRUCTURE
NYCDEP CAPITAL PROJECT WP-169

GI-P-DESIGN-3
GREEN INFRASTRUCTURE PRACTICES AT NYC-DPR SITES
JOSEPH AUSTIN PLAYGROUND
TOPOGRAPHIC & UTILITY SURVEY PLAN

DATE	FEBRUARY 2022
PAGE	2 OF 2
SHEET NUMBER	T-1



PLAN

SCALE: 1" = 20'

NOTES:

1. TREE PROTECTION NOTES CAN BE FOUND ON SHEET O-3 - GENERAL NOTES.
2. DRAWINGS ARE ROTATED 78.68 DEGREES FROM TRUE NORTH.
3. ANY EXISTING ASPHALT PAVEMENT OR CURB ON OR ADJACENT TO THE SITE THAT HAS BEEN DAMAGED AS A RESULT OF CONSTRUCTION WORK SHALL BE REPAIRED, TO THE SATISFACTION OF THE ENGINEER, AT NO ADDITIONAL COST TO THE OWNER.

TREE #	SPECIES (common name)	DBH (inches)	CTLA CONDITION RATING	ISA CRITICAL ROOTZONE (CRZ) RADIUS (ft.)	TREE REMOVAL	STUMP REMOVAL	TRANSPLANT TREE	PREPARATORY PRUNING ANSI A-300						TREE PROTECTION							DECOMPACT			PREPARATORY FERTILIZE	TREE GROWTH REGULATOR	COMMENTS
								Cleaning	Raising	Reducing	Restoring	Structural	Thinning	Limb Tying	Temporary Wooden Tree Guard	Temporary Wooden Tree Guard for Cranes	Temporary Fence Boundary	Protect Existing Tree Roots w/ Woodchips	Protect Ex. Tree Roots w/ Plywood or Mats	Air-Tilling 3 Ft Radius	Air-Tilling 5 Ft Radius	Radial Trench	Vertical Mulch			
1	LONDON PLANETREE	16	91%	16.0																						
2	LONDON PLANETREE	19	91%	19.0																						
3	LONDON PLANETREE	18	75%	18.0																						Large fissure in trunk with sap sucker holes, insects indicative of borers, suggest removal of crossing branches
4	HONEYLOCUST	19	91%	14.3																						Burl around base
5	HONEYLOCUST	21	94%	15.8																						
6	HONEYLOCUST	19	100%	14.3																						
7	HONEYLOCUST	18	97%	13.5																						Mechanical damage to large structural roots
8	LONDON PLANETREE	24	100%	24.0																						Wouldn't require limbing up
9	LONDON PLANETREE	29	100%	29.0																						Wouldn't require limbing up
10	LONDON PLANETREE	23	100%	23.0																						Wouldn't require limbing up
11	LONDON PLANETREE	23	94%	23.0																						Wouldn't require limbing up
12	LONDON PLANETREE	26	100%	26.0																						Wouldn't require limbing up, hole in side with frass filling, appears structurally sound
13	LONDON PLANETREE	31	100%	31.0																						
15	CHERRY, KWANZAN	7	94%	8.1																						Cut girdling root flare, buried root flare
16	CHERRY, KWANZAN	7	91%	8.1																						Buried root flare
17	LONDON PLANETREE	29	88%	29.0																						Oozing canker in trunk
18	LONDON PLANETREE	25	97%	25.0																						
19	LONDON PLANETREE	20	81%	20.0																						
20	LONDON PLANETREE	23	94%	23.0											X											
21	LONDON PLANETREE	21	94%	21.0											X											Wouldn't require limbing up
22	LONDON PLANETREE	20	94%	20.0											X											Wouldn't require limbing up
24	LONDON PLANETREE	23	94%	23.0											X											
25	LONDON PLANETREE	18	100%	18.0																						
26	LONDON PLANETREE	21	94%	21.0																						
27	LONDON PLANETREE	15	75%	15.0																						

LEGEND

- TREE TO BE PROTECTED
- TREE DRIPLINE
- TREE CRITICAL ROOT ZONE
- CONSTRUCTION ACCESS/ENTRANCE
- STAGING AREA
- CLL - CONTRACT LIMIT LINE
- CF - CONSTRUCTION FENCE
- MODULAR CONSTRUCTION ENTRANCE

SCALE: 1" = 20'

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NO.	DATE	ISSUED FOR	BY

SEAL

STATE OF NEW YORK — SANDEEP MEHROTRA — 075828 — LICENSED PROFESSIONAL ENGINEER

Hazen

BLOCK 9867

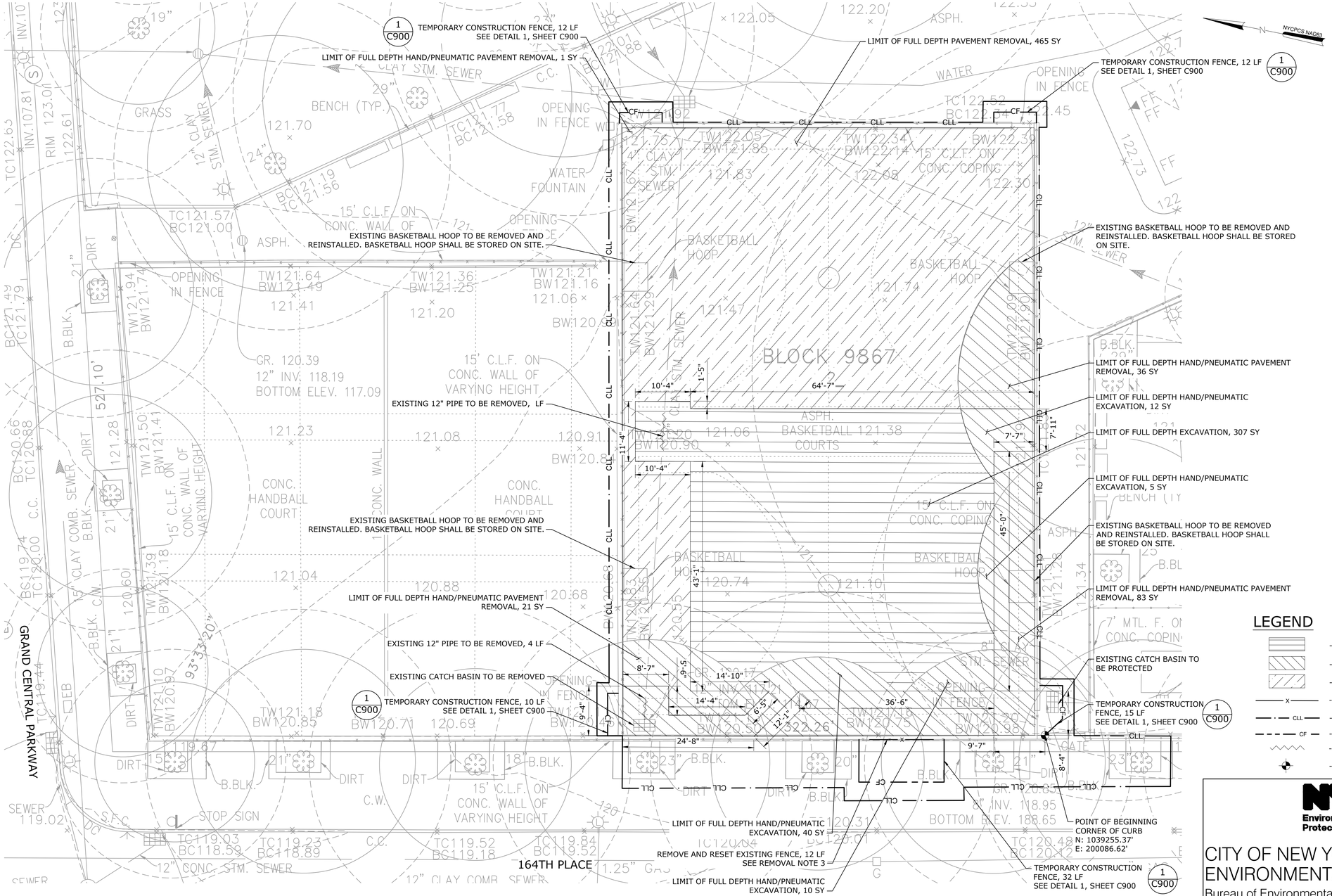
LOT 2

PROJECT TITLE
JOSEPH AUSTIN PLAYGROUND ON-SITE
GREEN INFRASTRUCTURE

DRAWING TITLE
TREE PROTECTION PLAN, STAGING AND ACCESS

DESIGNED BY	DRAWN BY	CHECKED BY
J. BRENNAN	T. AUTH	A. EASON

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 20'	C100	GI-CONS-6
	DATE NOV 2026		SHEET No. 3 OF 10 SHEETS



PLAN
SCALE: 1" = 10'

NOTES:

1. REMOVAL NOTES CAN BE FOUND ON SHEET O-3 - GENERAL NOTES.
2. DRAWINGS ARE ROTATED 78.68 DEGREES FROM TRUE NORTH.
3. ANY EXISTING ASPHALT PAVEMENT OR CURB ON OR ADJACENT TO THE SITE THAT HAS BEEN DAMAGED AS A RESULT OF CONSTRUCTION WORK SHALL BE REPAIRED, TO THE SATISFACTION OF THE ENGINEER, AT NO ADDITIONAL COST TO THE OWNER.

SUGGESTED SEQUENCE OF CONSTRUCTION:

ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE CONTRACT DRAWINGS AND UPON APPROVAL OF THE ENGINEER. ALL WORK SHALL BE DONE IN A MANNER TO MINIMIZE DISTURBANCE TO THE ADJACENT BASKETBALL COURT AND EXISTING VEGETATION. STAKE OUT AND RECEIVE APPROVAL FROM THE ENGINEER FOR THE LIMITS OF WORK BEFORE BEGINNING ANY CLEARING.

1. INLET PROTECTION SHOULD BE USED ON ALL DRAINAGE INLETS ADJACENT TO AND DOWNSTREAM OF CONSTRUCTION AREA.
2. INSTALL PERIMETER EROSION CONTROL MEASURES INCLUDING CONSTRUCTION LIMIT FENCING, AROUND THE WORK AREA. INSTALL ALL TREE PROTECTION.
3. PERFORM PAVEMENT AND DEBRIS REMOVAL.
4. EXCAVATION AND INSTALLATION OF GREEN INFRASTRUCTURE PRACTICES SHALL BE PERFORMED, ALONG WITH ALL ASSOCIATED APPURTENANCES.
5. BACKFILL THE PROJECT SITE WITH STONE, AS PER CONTRACT SPECIFICATIONS, TO THE FINAL ELEVATIONS SHOWN ON THE CONTRACT DRAWINGS.
6. RESURFACE PAVED PLAY AREA AS PER THE CONTRACT DRAWINGS.
7. ONCE ALL AREAS HAVE BEEN STABILIZED, REMOVE TEMPORARY PERIMETER EROSION AND SEDIMENT CONTROL MEASURES.

LEGEND

- FULL DEPTH EXCAVATION LIMIT
- HAND/PNEUMATIC EXCAVATION LIMIT
- FULL DEPTH PAVEMENT REMOVAL
- FENCE TO BE REMOVED
- CONTRACT LIMIT LINE
- CONSTRUCTION FENCE
- PIPE REMOVAL
- POINT OF BEGINNING

SCALE: 1" = 10'

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Forestry, Horticulture and Natural Resources

SEAL

Hazen

PROJECT TITLE
JOSEPH AUSTIN PLAYGROUND ON-SITE
GREEN INFRASTRUCTURE

DRAWING TITLE
REMOVAL AND DEMOLITION PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
J. BRENNAN	T. AUTH	A. EASON

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 10'	C101	GI-CONS-6
	DATE NOV 2026		SHEET No. 4 OF 10 SHEETS

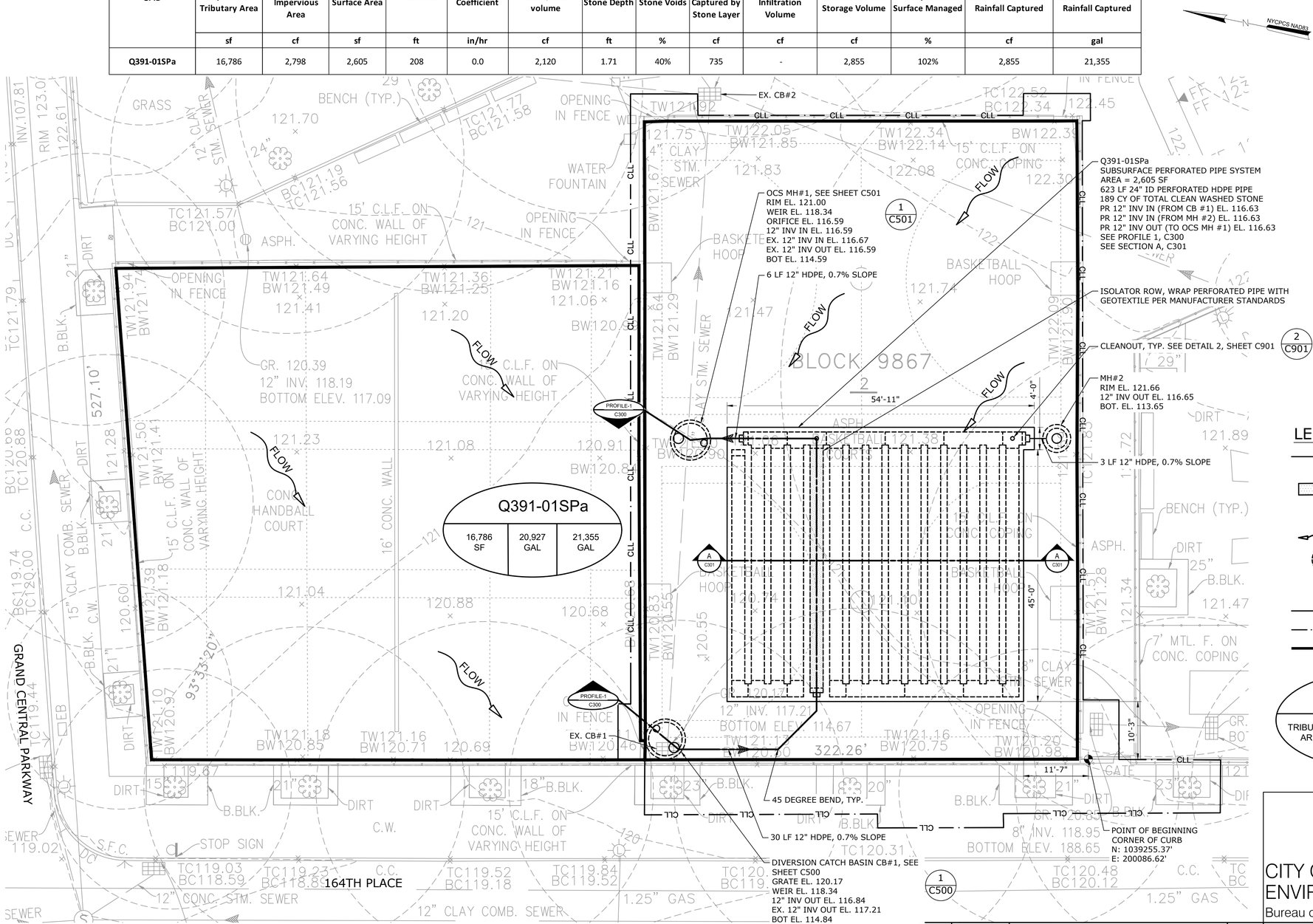
BLOCK 9867
LOT 2

GI ID	GI Asset Data					Stormwater Storage Calculations				Total Stormwater Managed (Infiltration + Storage)				
							Stone Subbase							
	Managed Impervious Tributary Area	Volume 2.00" Rainfall on Impervious Area	GI Footprint Surface Area	GI Perimeter	Permeability Coefficient	Perforated Pipes, tanks, etc. volume	Stone Depth	Stone Voids	Stormwater Captured by Stone Layer	Estimated Total Infiltration Volume	Estimated Total Storage Volume	% Impervious Surface Managed	Calculated Volume of Rainfall Captured	Calculated Volume of Rainfall Captured
	sf	cf	sf	ft	in/hr	cf	ft	%	cf	cf	cf	%	cf	gal
Q391-01SPa	16,786	2,798	2,605	208	0.0	2,120	1.71	40%	735	-	2,855	102%	2,855	21,355

NOTES:

1. DRAINAGE NOTES CAN BE FOUND ON SHEET O-3 - GENERAL NOTES.
2. DRAWINGS ARE ROTATED 78.68 DEGREES FROM TRUE NORTH.

SUGGESTED FITTINGS FOR PROPOSED LAYOUT		
FITTINGS	**QUANTITY**	**UNITS**
24" I.D. PERFORATED HDPE PIPE	623	LF
24" X 12" I.D. DUAL WALL FABRICATED REDUCING TEE	3	EA
24" I.D. DUAL WALL FABRICATED 90° BEND	4	EA
24" I.D. DUAL WALL DOUBLE MANIFOLD - PLAIN END	4	EA
24" I.D. DUAL WALL TRIPLE MANIFOLD - PLAIN END	5	EA
24" I.D. DUAL WALL SINGLE MANIFOLD - PLAIN END	1	EA
24" I.D. END CAP	1	EA
8" I.D. RISER FOR DUAL WALL MANIFOLDS (FOR CLEANOUTS)	2	EA



PLAN

SCALE: 1" = 10'

LEGEND

- PROPOSED GREEN INFRASTRUCTURE PRACTICE
- ISOLATOR ROW WITH GEOTEXTILE
- PROPOSED CLEANOUT
- FLOW DIRECTION
- PROPOSED OUTLET CONTROL STRUCTURE/DIVERSION CATCH BASIN (WITH SUBSURFACE LIMITS SHOWN)
- PROPOSED MANHOLE (WITH SUBSURFACE LIMITS)
- PROPOSED STORM DRAIN
- CONTRACT LIMIT LINE
- PROPOSED DRAINAGE AREA

GI NAME

TRIBUTARY AREA	VOLUME OF 2.0" STORM	CAPACITY MANAGED

GREEN INFRASTRUCTURE CHARACTERISTICS

SCALE: 1" = 10'

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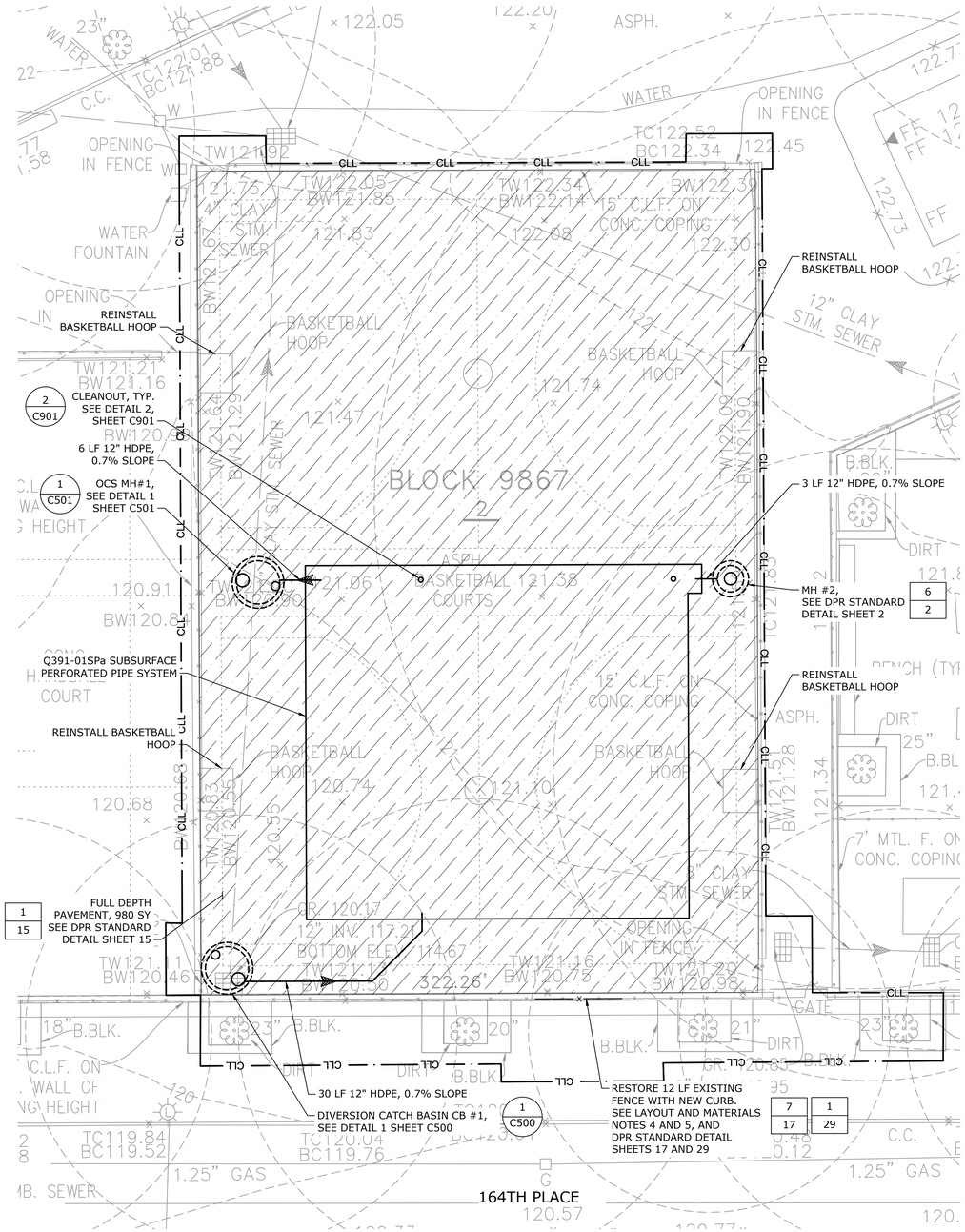
PROJECT TITLE
JOSEPH AUSTIN PLAYGROUND ON-SITE GREEN INFRASTRUCTURE

DRAWING TITLE
PROPOSED GREEN INFRASTRUCTURE LAYOUT PLAN

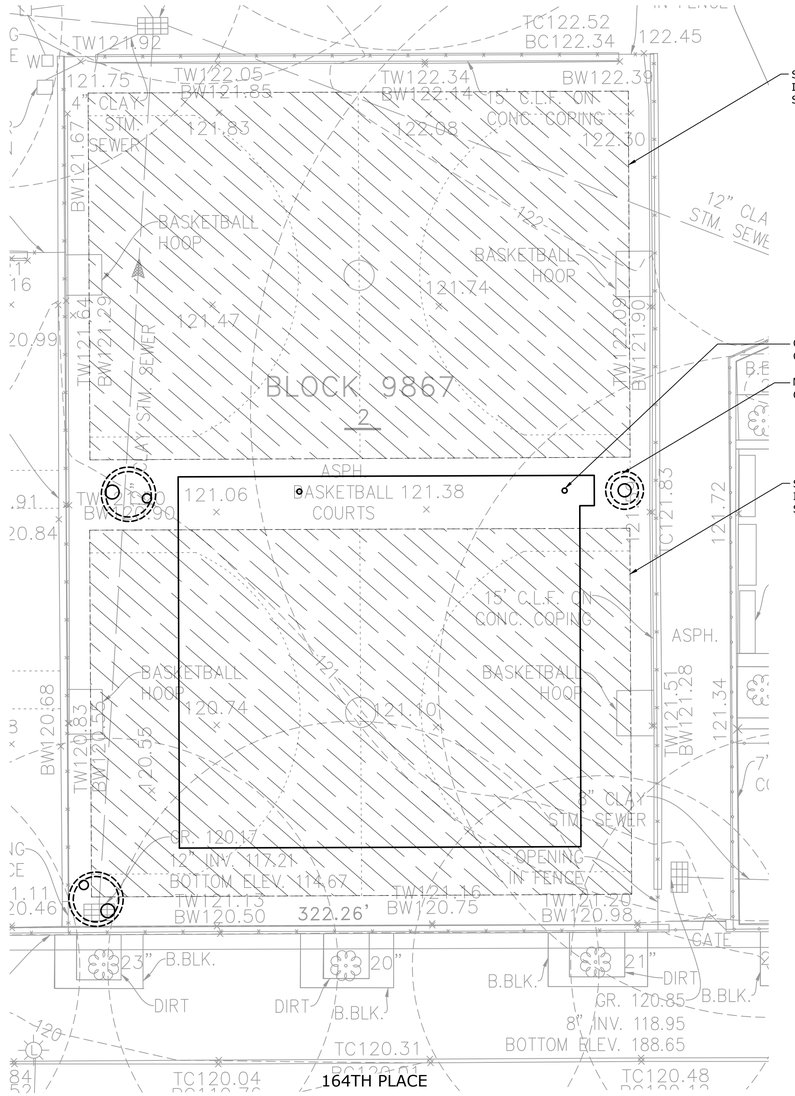
DESIGNED BY	DRAWN BY	CHECKED BY
J. BRENNAN	T. AUTH	A. EASON

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 10'	C200	GI-CONS-6
	DATE NOV 2026		SHEET No. 5 OF 10 SHEETS

BLOCK 9867
LOT 2



PLAN
SCALE: 1" = 10'



PAINTING PLAN
SCALE: 1" = 10'

NOTES:

1. LAYOUT AND MATERIALS NOTES CAN BE FOUND ON SHEET O-3 - GENERAL NOTES.
2. DRAWINGS ARE ROTATED 78.68 DEGREES FROM TRUE NORTH.

LEGEND

- PROPOSED GREEN INFRASTRUCTURE PRACTICE
- PROPOSED CLEANOUT
- PROPOSED FULL DEPTH PAVEMENT
- PROPOSED SEAL COAT
- FENCE TO BE RESTORED
- CONTRACT LIMIT LINE

SCALE: 1" = 10'

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BLOCK 9867
LOT 2

PROJECT TITLE
JOSEPH AUSTIN PLAYGROUND ON-SITE
GREEN INFRASTRUCTURE

DRAWING TITLE
MATERIALS PLAN

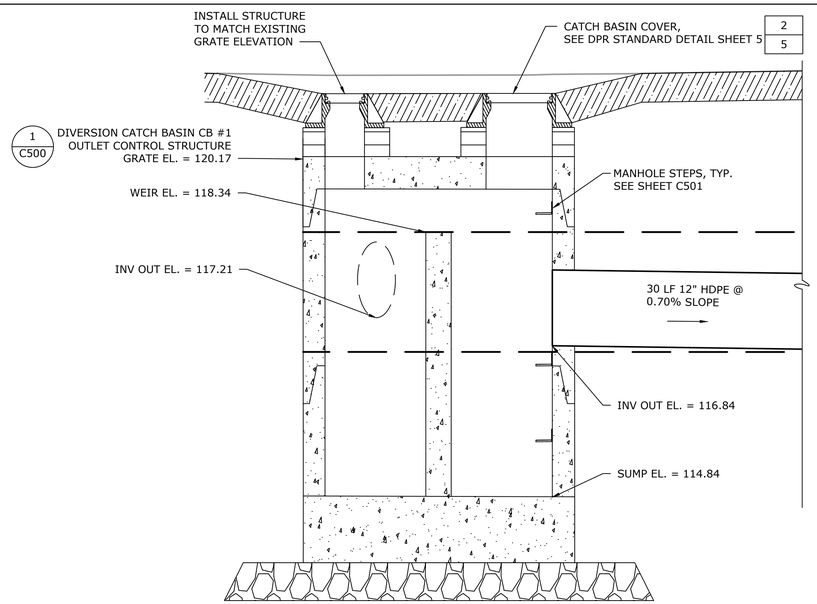
DESIGNED BY	DRAWN BY	CHECKED BY
J. BRENNAN	T. AUTH	A. EASON

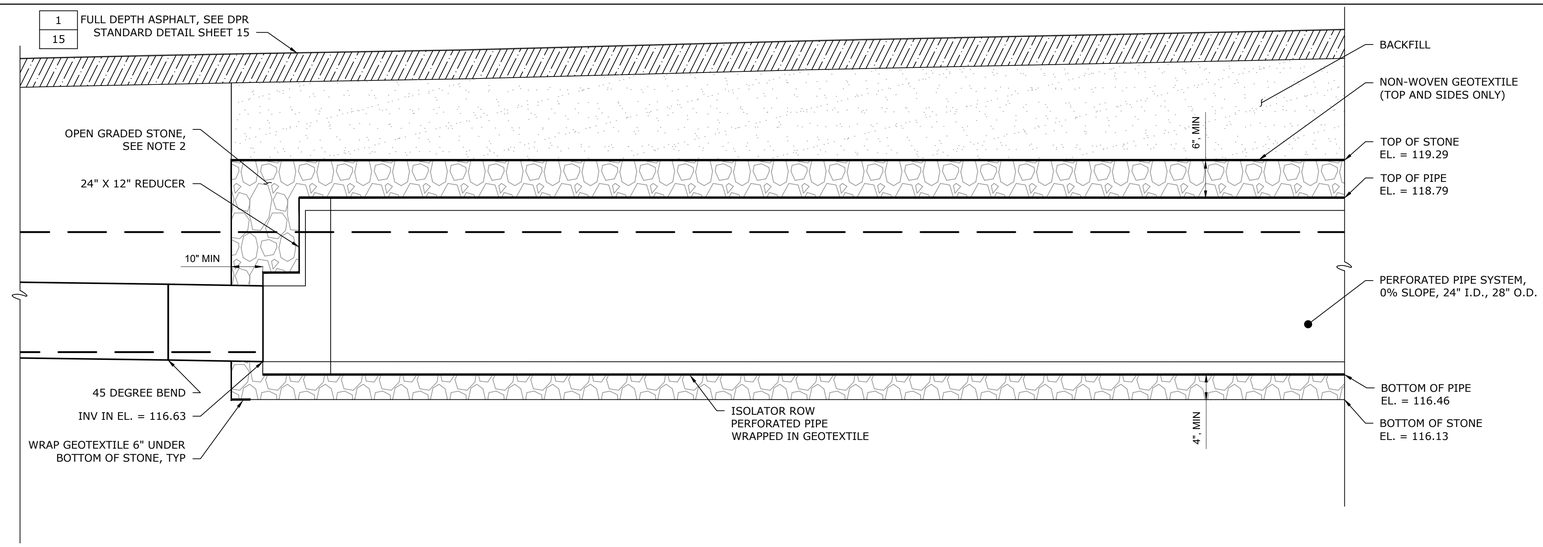
B-SCAN

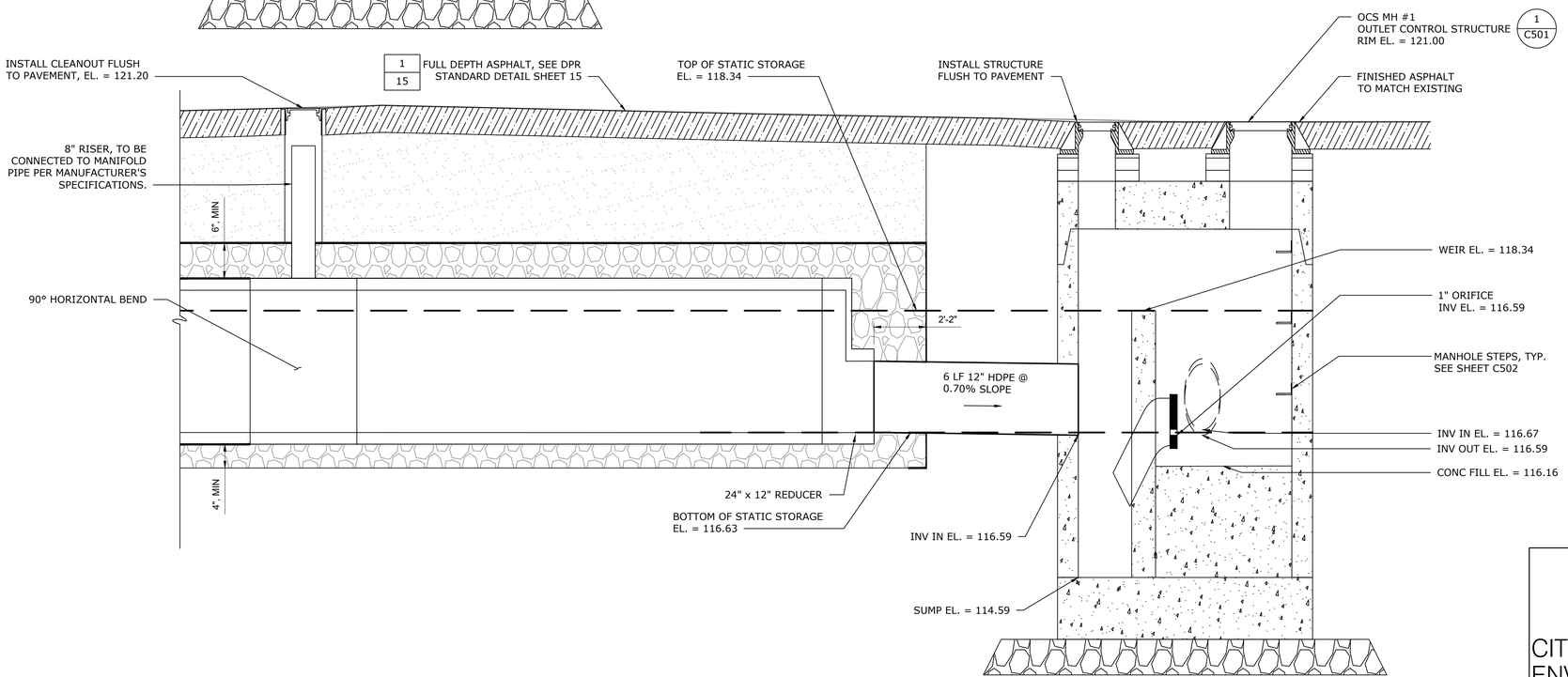
SCALE: 1" = 10'
DRAWING NO.: C202
DATE: NOV 2026

CONTRACT NO.: GI-CONS-6

SHEET No. 6 OF 10 SHEETS







HORIZONTAL SCALE 0 2' 4' 1"=2'

VERTICAL SCALE 0 1' 2' 1"=1'

PROFILE 1

HORIZONTAL SCALE: 1" = 2'
VERTICAL SCALE: 1"= 1'

NOTES:

1. THE WORK SHOWN HERE IN ITS ENTIRETY IS TO PROVIDE A STATIC STORAGE OF 2,855 CF AND IS CALCULATED BETWEEN EL. 118.34 AND EL 116.63.
2. OPEN GRADED STONE BASE SHALL BE A CLEAN WASHED COARSE AGGREGATE WITH A 40% VOID CONTENT.

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STATE OF NEW YORK — DEEPAK MEHROTRA — 079874 — LICENSED PROFESSIONAL ENGINEER

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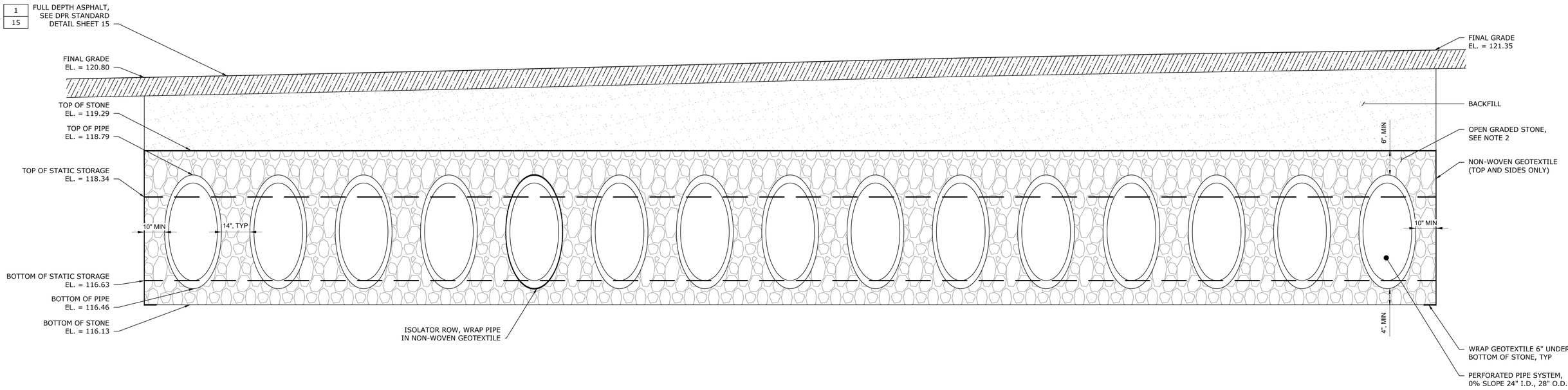
LOT 2

PROJECT TITLE
JOSEPH AUSTIN PLAYGROUND ON-SITE
GREEN INFRASTRUCTURE

DRAWING TITLE
SECTIONS AND PROFILES - 1

DESIGNED BY	DRAWN BY	CHECKED BY
J. BRENNAN	T. AUTH	A. EASON

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	AS SHOWN	C300	GI-CONS-6
	DATE NOV 2026		SHEET No. 7 OF 10 SHEETS



CROSS SECTION A

HORIZONTAL SCALE: 1" = 2'
VERTICAL SCALE: 1"= 1'

HORIZONTAL SCALE 0 2' 4' 1"=2'

VERTICAL SCALE 0 1' 2' 1"=1'

NOTES:

1. THE WORK SHOWN HERE IN ITS ENTIRETY IS TO PROVIDE A STATIC STORAGE OF 2,855 CF AND IS CALCULATED BETWEEN EL. 118.34 AND EL 116.63.
2. OPEN GRADED STONE BASE SHALL BE A CLEAN WASHED COARSE AGGREGATE WITH A 40% VOID CONTENT.

NO.	DATE	ISSUED FOR	BY

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STATE OF NEW YORK — ANDREW MENDOLA — LICENSED PROFESSIONAL ENGINEER — 087826

Hazen

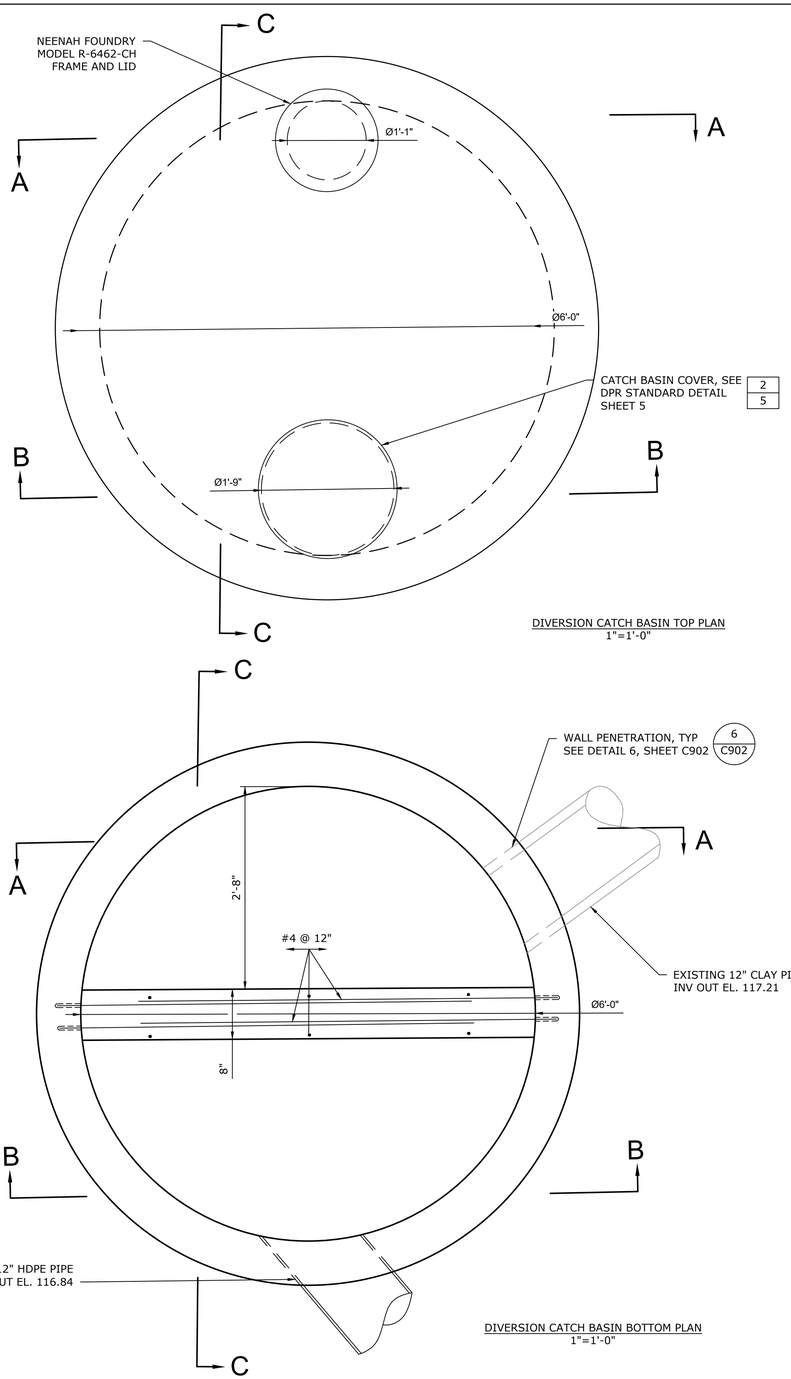
BLOCK 9867
LOT 2

PROJECT TITLE
JOSEPH AUSTIN PLAYGROUND ON-SITE GREEN INFRASTRUCTURE

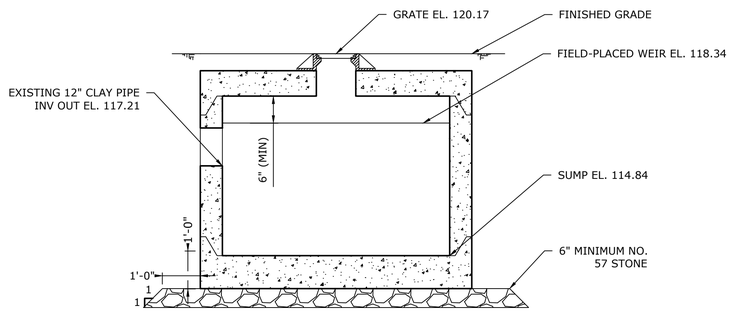
DRAWING TITLE
SECTIONS AND PROFILES - 2

DESIGNED BY	DRAWN BY	CHECKED BY
J. BRENNAN	T. AUTH	A. EASON

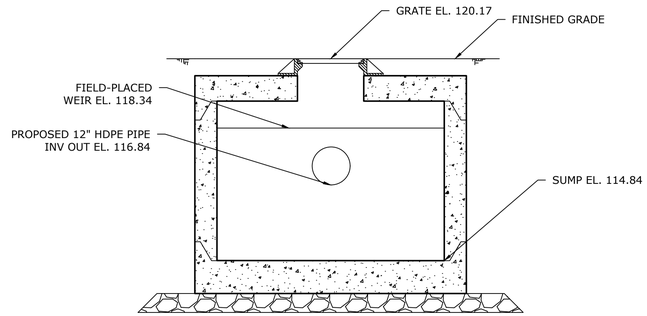
B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	AS SHOWN	C301	GI-CONS-6
	DATE NOV 2026		SHEET No. 8 OF 10 SHEETS



DIVERSION CATCH BASIN TOP PLAN
1"=1'-0"

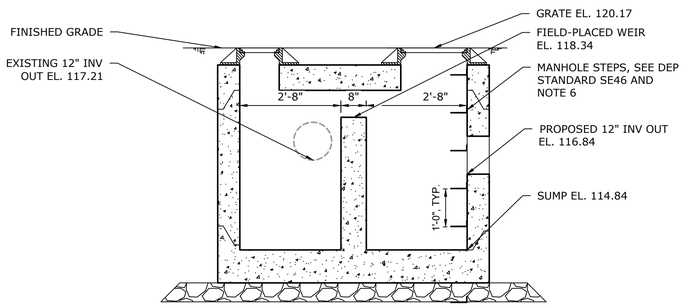


SECTION A-A
1"=2'-0"



SECTION B-B
1"=2'-0"

DIVERSION CATCH BASIN BOTTOM PLAN
1"=1'-0"



SECTION C-C
1"=2'-0"

NOTES:

1. THIS STRUCTURE FUNCTIONS AS AN INFLOW DIVERSION STRUCTURE, AND SHALL BE PAID AS AN OVERFLOW CONTROL STRUCTURE WITH DUCTILE IRON PIPE AND CAP.
2. CONTRACTOR TO VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
3. REFER TO DETAILS 1-6 ON SHEET C902.
4. SEE GENERAL STRUCTURAL NOTES AND CONCRETE NOTES ON SHEET C902.
5. RUNGS SHOULD BE LOCATED 3" OFFSET FROM THE TOP SLAB OF THE MANHOLE, AND REPEAT EVERY 12".

1/C500 CB #1 - DIVERSION CATCH BASIN WITH WEIR DETAILS
AS SHOWN

NO.	DATE	ISSUED FOR	BY

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STATE OF NEW YORK
DUDLEY P. MELROSE
087828
LICENSED PROFESSIONAL ENGINEER

Hazen

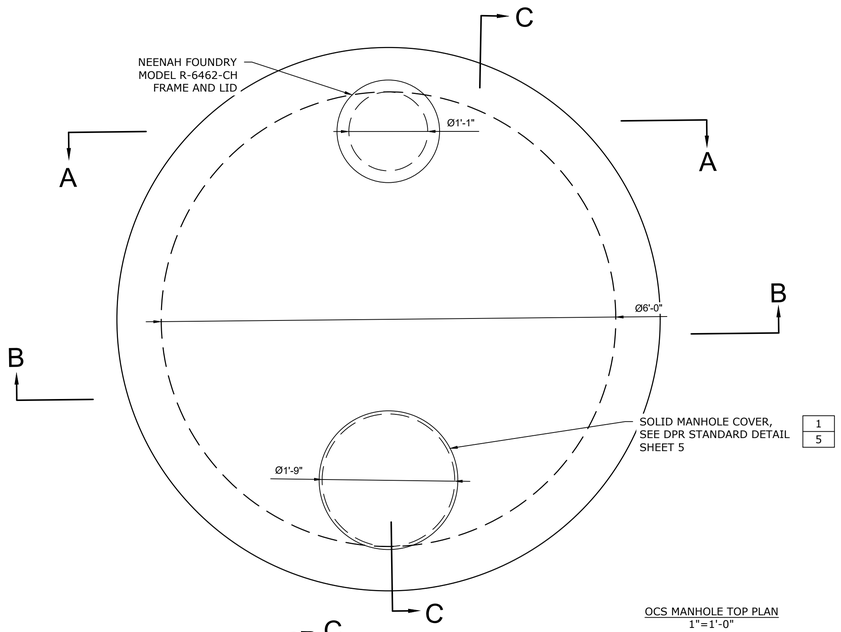
BLOCK 9867
LOT 2

PROJECT TITLE
JOSEPH AUSTIN PLAYGROUND ON-SITE
GREEN INFRASTRUCTURE

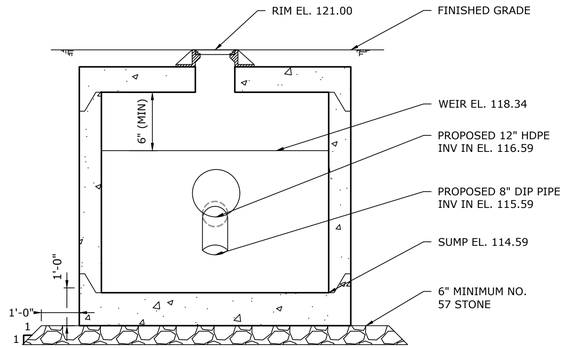
DRAWING TITLE
DETAILS - 1

DESIGNED BY	DRAWN BY	CHECKED BY
J. BRENNAN	T. AUTH	A. EASON

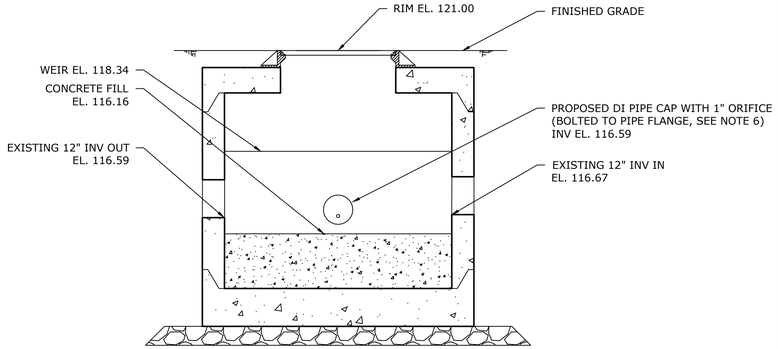
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	AS SHOWN	C500	GI-CONS-6
	DATE NOV 2026		SHEET No. 9 OF 10 SHEETS



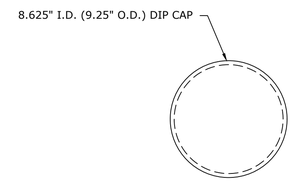
OCS MANHOLE TOP PLAN
1"=1'-0"



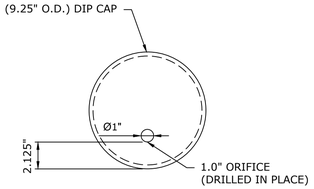
SECTION A-A
1"=2'-0"



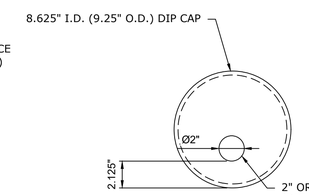
SECTION B-B
1"=2'-0"



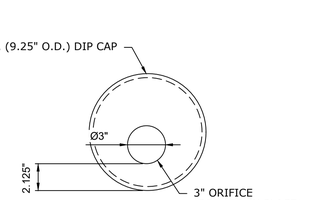
ORIFICE CAP
1"=0'-6"
FURNISH AND DELIVER 2 - SOLID ORIFICE CAPS
INSTALL 1 - SOLID ORIFICE CAP



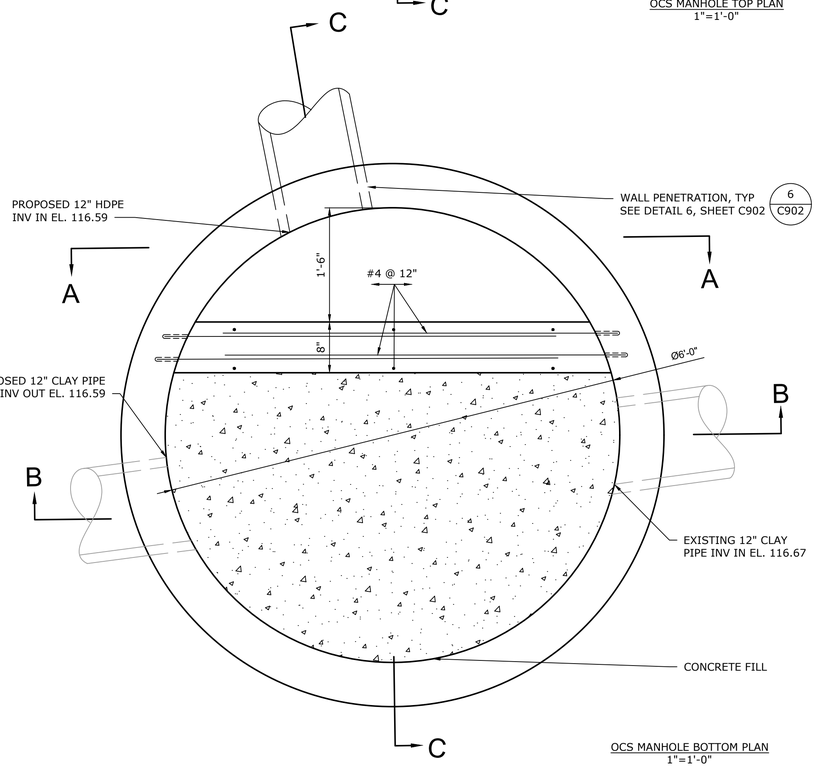
ORIFICE CAP
1"=0'-6"
PLACEMENT OF 1 - 1" ORIFICE CAP



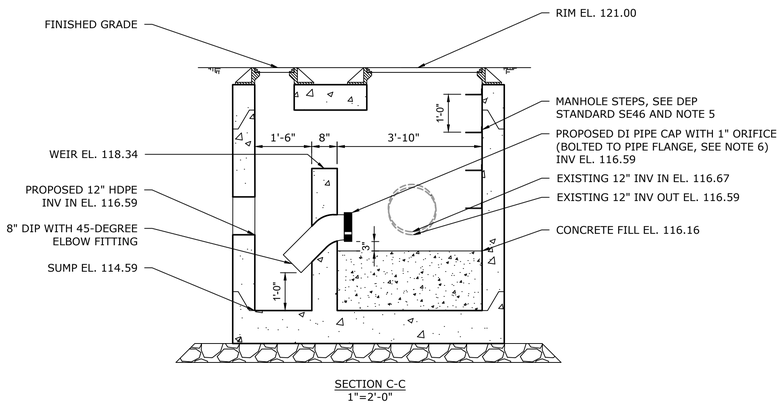
ORIFICE CAP
1"=0'-6"
PLACEMENT OF 1 - 2" ORIFICE CAP IF NEEDED



ORIFICE CAP
1"=0'-6"
PLACEMENT OF 1 - 3" ORIFICE CAP IF NEEDED



OCS MANHOLE BOTTOM PLAN
1"=1'-0"



SECTION C-C
1"=2'-0"

NOTES:

1. CONTRACTOR SHALL SUPPLY TWO(2) SOLID, BOLT-ON CAPS FOR THE PROJECT. ONE (1) SOLID CAP SHALL BE INSTALLED IN THE FIELD. FOLLOWING INSTALLATION, THE 1.0" DIAMETER OPENING SHALL BE DRILLED AND TAPPED AS PER THE DETAILS ON THIS SHEET. THE REMAINING SOLID CAP SHALL BE TURNED OVER TO NYCDEP FOR FUTURE USE.
2. CONTRACTOR TO VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
3. REFER TO DETAILS 1-6 ON SHEET C902.
4. SEE GENERAL STRUCTURAL NOTES AND CONCRETE NOTES ON SHEET C902.
5. RUNGS SHOULD BE LOCATED 3" OFFSET FROM THE TOP SLAB OF THE MANHOLE, AND REPEAT EVERY 12".
6. BOLTS SHALL BE INSTALLED SO THAT THE BOLT HEAD IS ON THE WEIR WALL SIDE.

1 / C501 OCS MH #1 - MANHOLE WITH WEIR AND ORIFICE CAP DETAILS
AS SHOWN

NO.	DATE	ISSUED FOR	BY

NYC Environmental Protection

CITY OF NEW YORK
ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis

NYC Parks

CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

SEAL
STATE OF NEW YORK — SANDEEP MEHROTRA — 075828 — PROFESSIONAL ENGINEER

Hazen

BLOCK 9867
LOT 2

PROJECT TITLE
JOSEPH AUSTIN PLAYGROUND ON-SITE
GREEN INFRASTRUCTURE

DRAWING TITLE
DETAILS - 2

DESIGNED BY	DRAWN BY	CHECKED BY
J. BRENNAN	T. AUTH	A. EASON

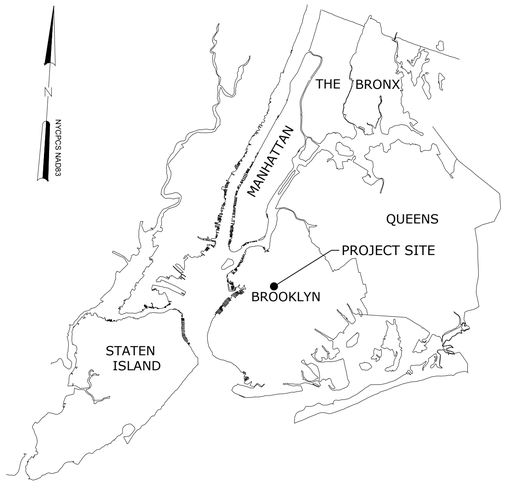
B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	AS SHOWN	C501	GI-CONS-6
	DATE NOV 2026		SHEET No. 10 OF 10 SHEETS

Environmental Protection

NEW YORK CITY ENVIRONMENTAL PROTECTION
BUREAU OF ENVIRONMENTAL PLANNING & ANALYSIS

NYC Parks

ON-SITE GREEN INFRASTRUCTURE
OWLS HEAD CSO TRIBUTARY AREA
OUTFALL OH-015
DEP CAPITAL CONTRACT NO. GI-CONS-6

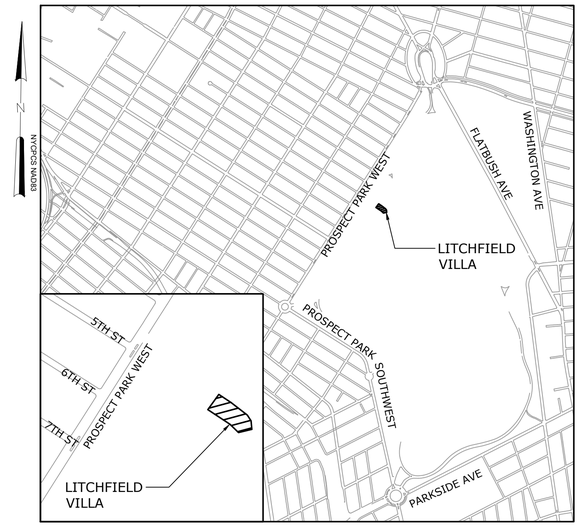


LOCATION PLAN

LITCHFIELD VILLA
BBL 3011170001

BROOKLYN, NY

BID SET
NOVEMEBER 2026



LOCATION PLAN

SHEET LIST TABLE	
DRAWING NUMBER	SHEET TITLE
G001	COVER
T-1	TOPOGRAPHIC & UTILITY SURVEY PLAN
C100	TREE PROTECTION PLAN, STAGING AND ACCESS
C101	REMOVAL AND DEMOLITION PLAN
C200	PROPOSED GREEN INFRASTRUCTURE LAYOUT PLAN
C201	DRAINAGE PLAN
C202	MATERIALS PLAN
C300	SECTIONS AND PROFILES - 1
C301	SECTIONS AND PROFILES - 2
C500	DETAILS - 1

John McLaughlin
Digitally signed by John McLaughlin
Date: 2026.11.03 09:34:45 -05'00'

JOHN MCLAUGHLIN
MANAGING DIRECTOR
OFFICE OF ECOSYSTEM SERVICES, GREEN INFRASTRUCTURE AND RESEARCH
BUREAU OF ENVIRONMENTAL PLANNING & ANALYSIS, NYCDEP

Lisa F. Garcia
Digitally signed by Lisa F. Garcia
Date: 2026.11.02 15:45:26 -05'00'

LISA F. GARCIA
COMMISSIONER
NYCDEP

Notes:

1. The existing conditions shown on this plan are based upon an actual on-the-ground instrument survey completed by GdB Geospatial LS, PC in August of 2021.

2. The locations of existing underground utilities shown on this plan are based on field observations and information of record. They are not warranted to be exactly located nor is it warranted that all underground utilities or other structures are shown on this plan.

3. Horizontal datum is North American Datum 1983 (2011) Epoch 2010.00 (New York State Plane Coordinate System, Long Island Zone). All linear measurements are in U.S. Survey Feet.

4. Vertical datum is North American Vertical Datum 1988. To convert this Datum to Brooklyn Highway Datum, subtract 1.460 feet from each elevation. To convert this Datum to Brooklyn Sewer Datum, subtract 0.620 feet from each elevation.

STATE OF NEW YORK
MICHAEL M. LEWIS
050842
LICENSED LAND SURVEYOR

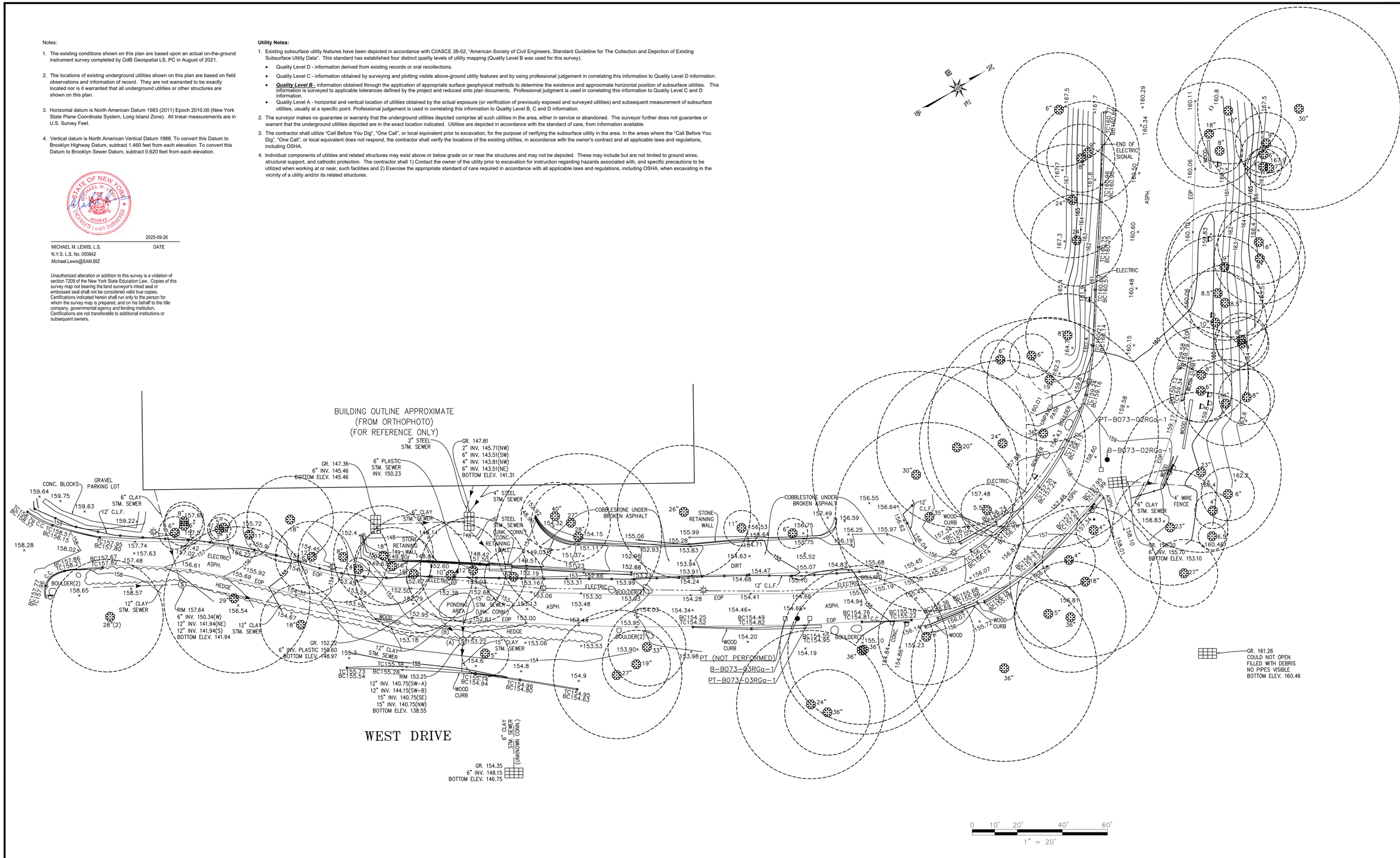
2025-09-26

MICHAEL M. LEWIS, L.S. DATE
N.Y.S. L.S. No. 050842
Michael.Lewis@SAM.BIZ

Unauthorized alteration or addition to this survey is a violation of section 7209 of the New York State Education Law. Copies of this survey map not bearing the land surveyor's inked seal or embossed seal shall not be considered valid true copies. Certifications indicated herein shall run only to the person for whom the survey map is prepared, and on his behalf to the title company, governmental agency and lending institution. Certifications are not transferable to additional institutions or subsequent owners.

Utility Notes:

1. Existing subsurface utility features have been depicted in accordance with CI/ASCE 38-02, "American Society of Civil Engineers, Standard Guideline for The Collection and Depiction of Existing Subsurface Utility Data". This standard has established four distinct quality levels of utility mapping (Quality Level B was used for this survey).
   - Quality Level D - information derived from existing records or oral recollections.
   - Quality Level C - information obtained by surveying and plotting visible above-ground utility features and by using professional judgement in correlating this information to Quality Level D information.
   - ***Quality Level B*** - information obtained through the application of appropriate surface geophysical methods to determine the existence and approximate horizontal position of subsurface utilities. This information is surveyed to applicable tolerances defined by the project and reduced onto plan documents. Professional judgment is used in correlating this information to Quality Level C and D information.
   - Quality Level A - horizontal and vertical location of utilities obtained by the actual exposure (or verification of previously exposed and surveyed utilities) and subsequent measurement of subsurface utilities, usually at a specific point. Professional judgement is used in correlating this information to Quality Level B, C and D information.
2. The surveyor makes no guarantee or warranty that the underground utilities depicted comprise all such utilities in the area, either in service or abandoned. The surveyor further does not guarantee or warrant that the underground utilities depicted are in the exact location indicated. Utilities are depicted in accordance with the standard of care, from information available.
3. The contractor shall utilize "Call Before You Dig", "One Call", or local equivalent prior to excavation, for the purpose of verifying the subsurface utility in the area. In the areas where the "Call Before You Dig", "One Call", or local equivalent does not respond, the contractor shall verify the locations of the existing utilities, in accordance with the owner's contract and all applicable laws and regulations, including OSHA.
4. Individual components of utilities and related structures may exist above or below grade on or near the structures and may not be depicted. These may include but are not limited to ground wires, structural support, and cathodic protection. The contractor shall 1) Contact the owner of the utility prior to excavation for instruction regarding hazards associated with, and specific precautions to be utilized when working at or near, such facilities and 2) Exercise the appropriate standard of care required in accordance with all applicable laws and regulations, including OSHA, when excavating in the vicinity of a utility and/or its related structures.



NO.	DATE	ISSUED FOR	BY

DESIGNED
DRAWN
CHECKED
PROJ.ENGR.

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.

GdB Geospatial

APPROVED FOR THE CITY OF NEW YORK
P.E.
PROJECT MANAGER

NYC Environmental Protection

CITY OF NEW YORK
ENVIRONMENTAL PROTECTION
OFFICE OF GREEN INFRASTRUCTURE
NYCDEP CAPITAL PROJECT WP-169

GI-P-DESIGN-3
GREEN INFRASTRUCTURE PRACTICES AT NYC-DPR SITES
LITCHFIELD VILLA PARKING LOT
TOPOGRAPHIC & UTILITY SURVEY PLAN

DATE	FEBRUARY 2022
PAGE	2 OF 2
SHEET NUMBER	T-1

6 / 59 INSTALL 25 LF OF STRAW BALE FOR EROSION CONTROL SEE DPR STANDARD DETAIL 6, SHEET 59

5 / C900 STAGING AREA, TO BE MOVED AS REQUIRED TO COMPLETE WORK. SEE DETAIL 5, SHEET C900

2 / C900 INSTALL INLET PROTECTION, SEE DETAIL 2, SHEET C900

1 / C900 TEMPORARY CONSTRUCTION FENCE, 528 LF, SEE DETAIL 1, SHEET C900

6 / 59 INSTALL 65 LF OF STRAW BALE FOR SEDIMENT CONTROL, SEE DPR STANDARD DETAIL 6, SHEET 59

TREE DRIPLINE, TYP

TREE CRITICAL ROOT ZONE, TYP

GR. 161.26
COULD NOT OPEN
FILLED WITH DEBRIS
NO PIPES VISIBLE
BOTTOM ELEV. 160.46

TREE #	SPECIES (common name)	DBH (inches)	CTLA CONDITION RATING	ISA CRITICAL ROOTZONE (CRZ) RADIUS (ft.)	TREE REMOVAL	STUMP REMOVAL	TRANSPLANT TREE	PREPARATORY PRUNING ANSI A-300: Cleaning	Raising	Reducing	Restoring	Structural	Training	TREE PROTECTION: Limb Tying	Temporary Wooden Tree Protection	Temporary Wooden Tree Guard For Grates	Temporary Fence Boundary	Protect Existing Tree Roots Hand Excavate	Protect Ex. Tree Roots w/ Plywood or Mats	DECOMPACT: Air Tiling 3 Ft Radius	Air Tiling 5 Ft Radius	Radial Trench	Vertical Mulch	PREPARATORY FERTILIZE	TREE GROWTH REGULATOR	COMMENTS
T9	OAK, WHITE	18	66%	13.5				X																		Buried root flare, poor condition dead central leader at top, recommend dead wood removal
T10	OAK, NORTHERN RED	36	66%	36.0																						Mushrooms at base, spotting on leaves
T11	OAK, NORTHERN RED	27	75%	27.0								X														Recommend limb reduction
T12	ASH, OTHER	23	63%	23.0				X																		Major defoliation, dead branches
T13	OAK, NORTHERN RED	23	75%	23.0				X																		Leaf spots, dead branches, sooty growth on bark
T14	ELM, OTHER	7	63%	3.3																						Large fissure on trunk, exposed decay in heartwood
T15	MAPLE, NORWAY	6	66%	4.5																						See Parks Survey for complete information
A8374	ELM, OTHER	6	59%	4.5																						Multistem, Crossing branches, poor condition, not worth saving if conflict, leaf spot, bark flaking away, cracking of trunks
A8210	MULBERRY, RED	8	59%	6.0																						Poor condition, fusing branches, missing bark, oozing trunk
T16	ELM, OTHER	12	47%	9.0																						Black leaf spot, decay on trunk
T17	CHERRY, BLACK	9	59%	9.0								X														A lot of dead wood, recommend removal of large dead branch
A8216	OAK, NORTHERN RED	9	72%	9.0																						Most of branches on parking lot side
T18	OAK, NORTHERN RED	6	72%	4.5																						Possible sucker from adjacent stump, leaf scorch, no strong branching structure
T19	CHERRY, BLACK	9	59%	8.5																						Poor condition
A8345	CHERRY, BLACK	9	59%	8.5																						Poor condition, not worth saving, codominant leader dead branches, decay on branches, ivy
T20	CHERRY, BLACK	9	59%	9.0																						Poor condition, not worth saving, codominant leader dead branches, decay on branches
T21	CHERRY, BLACK	8	59%	8.0																						Poor condition, not worth saving, codominant leader dead branches, decay on branches
T22	BUTTERNUT	14	75%	17.5																						Sorrre dead branches
T23	ELM, OTHER	8	72%	6.0																						Leaf spot, defoliation
T24	ELM, OTHER	8	72%	6.0																						Leaf spot, defoliation
T25	ELM, OTHER	17	72%	12.8																						Ants on trunk
T26	ELM, OTHER	10	72%	7.5				X																		clean dead branches
T27	ELM, OTHER	9	66%	6.8																						Insect damage/holes
T28	ELM, OTHER	6	59%	4.5																						Poor condition
T29	ELM, OTHER	7	53%	5.3																						Poor condition
A8527	OAK, NORTHERN RED	41	75%	41.0																						
A8539	OAK, NORTHERN RED	21	69%	21.0				X																		Holes from insects in trunk, lots of trunk sprouts/witches broom
A8638	CHERRY, BLACK	19	72%	19.0				X																		Codominant leader, dead branches to be removed
T30	DOGWOOD, FLOWERING	6	75%	6.0				X																		Clean dead branches
T31	DOGWOOD, FLOWERING	6	75%	6.0				X																		Clean dead branches
A8707	HORNBEAM, AMERICAN	8	63%	10.0				X																		Clean dead branches, broken off branch
A8725	LINDEN, LITTLE LEAF	26	53%	39.0																						Multistem, open cavities on branches, poor structure, on slope with severe lean to road
A8605	MAPLE, RED	24	59%	24.0				X																		Large sucker, vine damage, signs of decay, remove large dead branches
A8754	ELM, OTHER	9	72%	6.8				X																		Clean dead branches
B8754	ELM, OTHER	8	75%	6.0				X																		Clean dead branches
A8768	CHERRY, OTHER	6	63%	6.0				X																		Dead tree has fallen on it, large trunk fissure

LEGEND

- TREE CRITICAL ROOT ZONE
- TREE DRIPLINE
- CONSTRUCTION ACCESS/ENTRANCE
- STAGING AREA
- CLL — CONTRACT LIMIT LINE
- CF — CONSTRUCTION FENCE
- STRAW BALE DIKE

NOTES:

1. TREE PROTECTION NOTES CAN BE FOUND ON SHEET O-3 - GENERAL NOTES.
2. DRAWINGS ARE ROTATED 149.02 DEGREES FROM TRUE NORTH.
3. FULL DEPTH ASPHALT REMOVAL IN CRITICAL ROOT AND/OR DRIP LINE SHOULD BE HAND/PNEUMATIC EXCAVATION BUT IF NO ROOTS ARE ENCOUNTERED, FURTHER EXCAVATION CAN PROCEED AS UNCLASSIFIED IF APPROVED BY DEP AND NYC PARKS.

PLAN
SCALE: 1" = 10'

SCALE: 1" = 10' (10 5 0 10')

NO.	DATE	ISSUED FOR	BY

NYC Environmental Protection
CITY OF NEW YORK ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis

NYC Parks
CITY OF NEW YORK PARKS & RECREATION
Forestry, Horticulture and Natural Resources

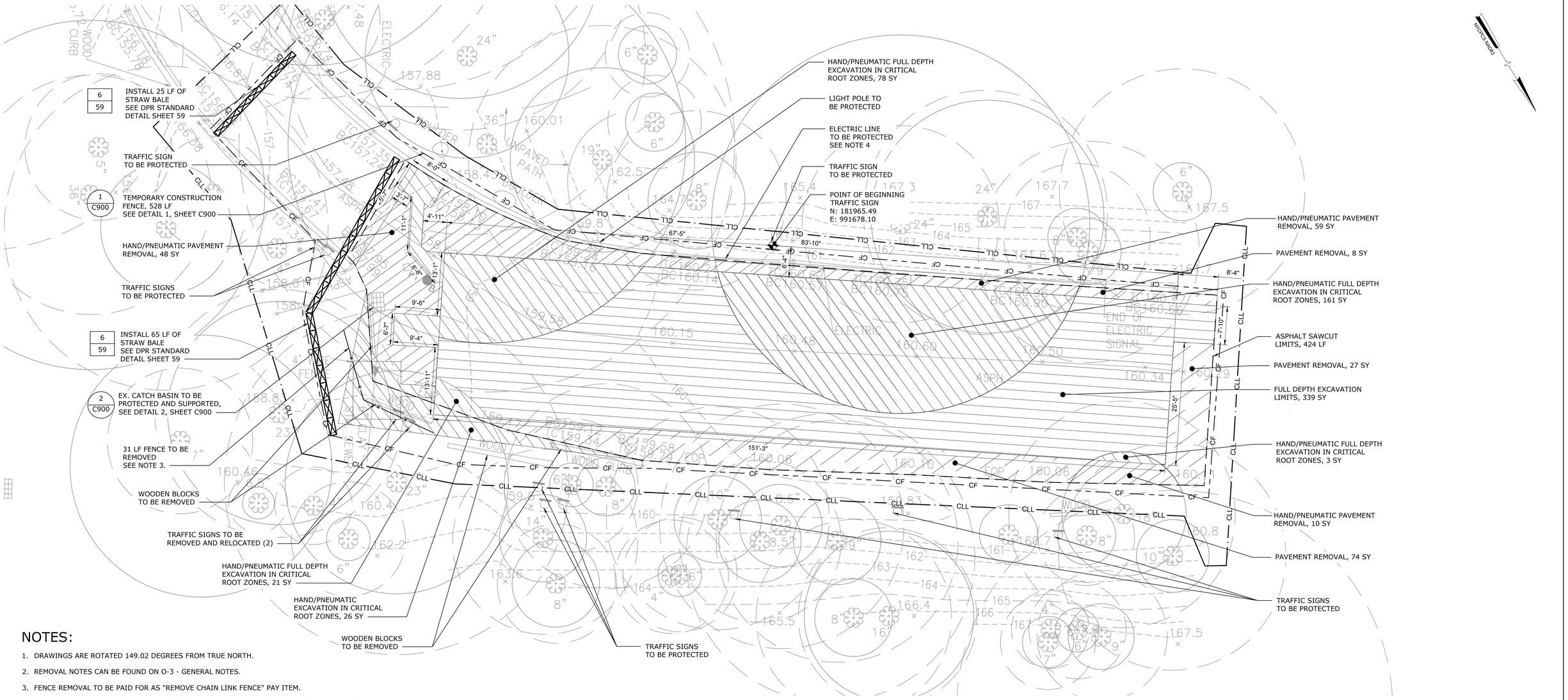
SEAL
STATE OF NEW YORK — DEEPDEEP MEHROTRA — 076926 — LICENSED PROFESSIONAL ENGINEER
Hazen
BLOCK 1117
LOT 1

PROJECT TITLE
LITCHFIELD VILLA
ON-SITE GREEN
INFRASTRUCTURE

DRAWING TITLE
TREE PROTECTION PLAN, STAGING AND ACCESS

DESIGNED BY	DRAWN BY	CHECKED BY
J. BRENNAN	T. MARSHALL	A. EASON

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 10'	C100	GI-CONS-6
	DATE NOV 2026		SHEET No. 3 OF 10 SHEETS



NOTES:

1. DRAWINGS ARE ROTATED 149.02 DEGREES FROM TRUE NORTH.
2. REMOVAL NOTES CAN BE FOUND ON O-3 - GENERAL NOTES.
3. FENCE REMOVAL TO BE PAID FOR AS "REMOVE CHAIN LINK FENCE" PAY ITEM.
4. THE SIZE AND DEPTH OF THE EXISTING ELECTRICAL LINE IS UNKNOWN. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING EXCAVATION IN A MANNER THAT DOES NOT IMPACT THE ELECTRICAL LINE. ANY DAMAGE TO THE ELECTRICAL LINE AS A RESULT OF THE CONSTRUCTION WORK SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
5. FULL DEPTH ASPHALT REMOVAL IN CRITICAL ROOT AND/OR DRIP LINE SHOULD BE HAND/PNEUMATIC EXCAVATION BUT IF NO ROOTS ARE ENCOUNTERED, FURTHER EXCAVATION CAN PROCEED AS UNCLASSIFIED IF APPROVED BY DEP AND NYC PARKS.

SUGGESTED SEQUENCE OF CONSTRUCTION:

ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE CONTRACT DRAWINGS AND UPON APPROVAL OF THE ENGINEER. ALL WORK SHALL BE DONE IN A MANNER TO MINIMIZE DISTURBANCE TO THE ADJACENT ROADWAY AND EXISTING VEGETATION. STAKE OUT AND RECEIVE APPROVAL FROM THE ENGINEER FOR THE LIMITS OF WORK BEFORE BEGINNING ANY CLEARING.

1. INLET PROTECTION SHOULD BE USED ON ALL DRAINAGE INLETS ADJACENT TO AND DOWNSTREAM OF CONSTRUCTION AREA.
2. INSTALL PERIMETER EROSION CONTROL MEASURES INCLUDING CONSTRUCTION LIMIT FENCING, AROUND THE WORK AREA. INSTALL ALL TREE PROTECTION.
3. PERFORM PAVEMENT AND DEBRIS REMOVAL.
4. EXCAVATION AND INSTALLATION OF GREEN INFRASTRUCTURE PRACTICES SHALL BE PERFORMED, ALONG WITH ALL ASSOCIATED APPURTENANCES.
5. BACKFILL THE PROJECT SITE WITH STONE, AS PER CONTRACT SPECIFICATIONS, TO THE FINAL ELEVATIONS SHOWN ON THE CONTRACT DRAWINGS.
6. RESURFACE PAVED AREA AS PER THE CONTRACT DRAWINGS.
7. ONCE ALL AREAS HAVE BEEN STABILIZED, REMOVE TEMPORARY PERIMETER EROSION AND SEDIMENT CONTROL MEASURES.

LEGEND

- FULL DEPTH EXCAVATION
- HAND/PNEUMATIC EXCAVATION
- HAND/PNEUMATIC PAVEMENT REMOVAL
- FULL DEPTH PAVEMENT REMOVAL
- FENCE REMOVAL
- SAWCUT LIMITS
- CONTRACT LIMIT LINE
- CONSTRUCTION FENCE
- STRAW BALE DIKE

PLAN

SCALE: 1" = 10'

SCALE: 1" = 10'

NO.	DATE	ISSUED FOR	BY

NYC Environmental Protection

CITY OF NEW YORK
ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis

NYC Parks

CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

SEAL

Hazen

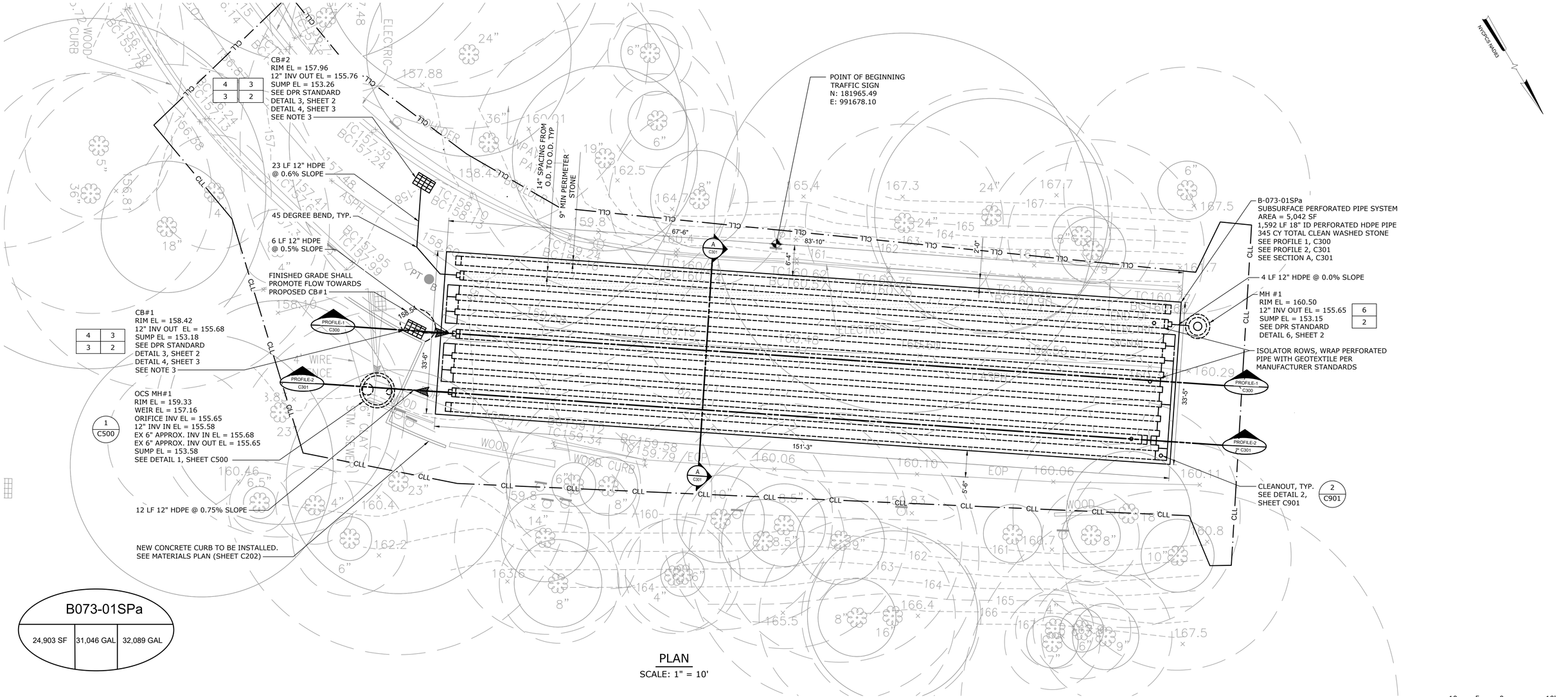
PROJECT TITLE
LITCHFIELD VILLA
ON-SITE GREEN
INFRASTRUCTURE

DRAWING TITLE
REMOVAL AND DEMOLITION PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
J. BRENNAN	T. MARSHALL	A. EASON

B-SCAN | SCALE 1" = 10' | DRAWING NO. C101 | CONTRACT NO. GI-CONS-6

BLOCK 1117 | LOT 1 | DATE NOV 2026 | SHEET No. 4 OF 10 SHEETS



B073-01SPa

24,903 SF	31,046 GAL	32,089 GAL

PLAN
SCALE: 1" = 10'

SCALE: 1" = 10'

SUGGESTED FITTINGS FOR PROPOSED LAYOUT		
FITTINGS	**QUANTITY**	**UNITS**
18" I.D. PERFORATED HDPE PIPE	1,592	LF
18" X 12" I.D. DUAL WALL FABRICATED REDUCING TEE	4	EA
18" I.D. DUAL WALL FABRICATED 90° BEND	6	EA
18" I.D. DUAL WALL SINGLE MANIFOLD - PLAIN END	2	EA
18" I.D. DUAL WALL TRIPLE MANIFOLD - PLAIN END	2	EA
18" I.D. END CAP	5	EA
8" I.D. RISER FOR DUAL WALL MANIFOLDS (FOR CLEANOUTS)	4	EA

NOTES:

1. LAYOUT & MATERIALS NOTES NOTES CAN BE FOUND ON THE SHEET O-3 - GENERAL NOTES.
2. DRAWINGS ARE ROTATED 149.02 DEGREES FROM TRUE NORTH.
3. THE CONTRACTOR SHALL INSTALL THE GRATES FOR THE CATCH BASINS IN A MANNER THAT ENSURES THEY ARE REMOVABLE BY HAND FOR MAINTENANCE.

LEGEND

- GREEN INFRASTRUCTURE PRACTICE
- PROPOSED STORM DRAIN
- OUTLET CONTROL STRUCTURE
- CLEANOUT/INSPECTION PORT
- PROPOSED CATCH BASIN
- PROPOSED MANHOLE

GI NAME

TRIBUTARY AREA	VOLUME OF 2.0" STORM	CAPACITY MANAGED

- GREEN INFRASTRUCTURE CHARACTERISTICS

GI ID	GI Asset Data					Stormwater Storage Calculations				Total Stormwater Managed (Infiltration + Storage)			
							Stone Subbase						
	Managed Impervious Tributary Area	Volume 2.0" Rainfall on Impervious Area	GI Footprint Surface Area	GI Perimeter	Permeability Coefficient	Perforated Pipes, tanks, etc. volume	Stone Depth	Stone Voids	Stormwater Captured by Stone Layer	Estimated Total Storage Volume	% Impervious Surface Managed	Calculated Volume of Rainfall Captured	Calculated Volume of Rainfall Captured
	sf	cf	sf	ft	in/hr	cf	ft	%	cf	cf	%	cf	gal
B-073-01SPa	24,903	4,151	5,042	369	0.02	2,892	1.51	40%	1,398	4,290	103%	4,290	32,089

NO.	DATE	ISSUED FOR	BY

NYC Environmental Protection

CITY OF NEW YORK
ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis

NYC Parks

CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

SEAL

Hazen

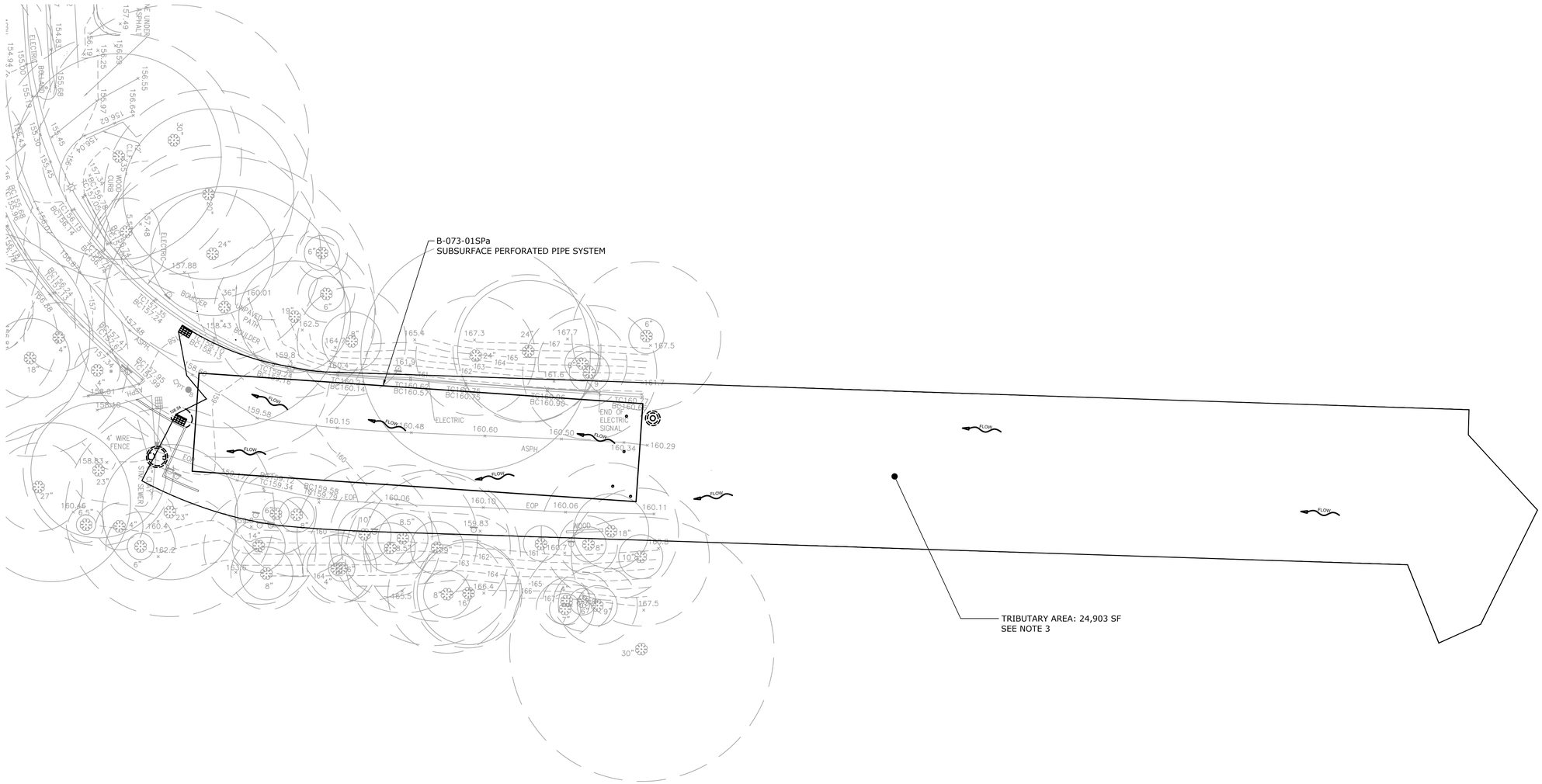
BLOCK 1117
LOT 1

PROJECT TITLE
LITCHFIELD VILLA
ON-SITE GREEN
INFRASTRUCTURE

DRAWING TITLE
PROPOSED GREEN INFRASTRUCTURE LAYOUT PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
J. BRENNAN	T. MARSHALL	A. EASON

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 10'	C200	GI-CONS-6
	DATE NOV 2026		SHEET No. 5 OF 10 SHEETS



PLAN
SCALE: 1" = 20'

SCALE: 1" = 20'

20 10 0 20'

LEGEND

- GREEN INFRASTRUCTURE PRACTICE
- PROPOSED STORM DRAIN
- OUTLET CONTROL STRUCTURE
- CLEANOUT/INSPECTION PORT
- PROPOSED CATCH BASIN
- PROPOSED MANHOLE

NOTES:

1. DRAINAGE NOTES NOTES CAN BE FOUND ON THE SHEET O-3 - GENERAL NOTES.
2. DRAWINGS ARE ROTATED 149.02 DEGREES FROM TRUE NORTH.
3. DRAINAGE AREA IS BASED ON FUTURE PROPOSED IMPROVEMENTS TO BE COMPLETED BY PROSPECT PARK ALLIANCE.

NO.	DATE	ISSUED FOR	BY

NYC Environmental Protection
CITY OF NEW YORK
ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis

NYC Parks
CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

SEAL
STATE OF NEW YORK · DANDEEP MEHRA · 090874 · LICENSED PROFESSIONAL ENGINEER

Hazen

BLOCK 1117
LOT 1

PROJECT TITLE
LITCHFIELD VILLA
ON-SITE GREEN
INFRASTRUCTURE

DRAWING TITLE
DRAINAGE PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
J. BRENNAN	T. MARSHALL	A. EASON

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 20'	C201	GI-CONS-6
	DATE NOV 2026		SHEET No. 6 OF 10 SHEETS

NOTES:

1. LAYOUT & MATERIALS NOTES CAN BE FOUND ON THE SHEET O-3 - GENERAL NOTES.
2. DRAWINGS ARE ROTATED 149.02 DEGREES FROM TRUE NORTH.
3. CONCRETE CURB SHALL BE INSTALLED WITH 6-INCHES OF REVEAL ABOVE THE PAVED SURFACE.
4. THE CONTRACTOR SHALL INSTALL THE GRATES FOR THE CATCH BASINS IN A MANNER THAT ENSURES THEY ARE REMOVABLE BY HAND FOR MAINTENANCE.
5. THE PARKING LOT IS TO BE REPAINTED TO MATCH THE EXISTING STRIPING LAYOUT, INCLUDING ALL ADA PARKING SPACES AND NO PARKING ZONES. LINES SHOWN ON DRAWINGS ARE APPROXIMATED AND THE CONTRACTOR IS REQUIRED TO SUBMIT A PAINTING PLAN TO NYC PARKS FOR APPROVAL PRIOR TO BEGINNING WORK. FOR BIDDING PURPOSES, 500 LF OF LINE STRIPING AND 1 ADA PARKING SPACE WERE ASSUMED.

LEGEND

- GREEN INFRASTRUCTURE PRACTICE
- PROPOSED STORM DRAIN
- OUTLET CONTROL STRUCTURE
- CLEANOUT/INSPECTION PORT
- PROPOSED CATCH BASIN
- ASPHALT RESTORATION
- MULCH
- PROPOSED MANHOLE

CB#2
RIM EL = 157.96
SEE DPR STANDARD
DETAIL 3 SHEET 2
DETAIL 4, SHEET 3 (4 | 3 / 3 | 2)

23 LF 12" HDPE
@ 0.5% SLOPE

EX. CB TO BE PROTECTED
AND SUPPORTED.
RIM EL: 158.2
SEE DETAIL 2, SHEET C900 (2 / C900)

CB#1
RIM EL = 158.42
SEE DPR STANDARD
DETAIL 3, SHEET 2
DETAIL 4, SHEET 3 (4 | 3 / 3 | 2)

OCS MH#1
RIM EL = 159.33
SEE DETAIL 1, SHEET C500 (1 / C500)

6" MULCH LAYER TO BE
INSTALLED IN UNPAVED
DISTURBED AREA, 48 SY

50 LF OF
CONCRETE CURB
SEE DETAIL 6 SHEET 18
SEE NOTE 3 (6 | 18)

6 LF 12" HDPE
@ 0.5% SLOPE

12 LF 12" HDPE
@ 0.6% SLOPE

EXISTING TRAFFIC SIGNS
TO BE RELOCATED (2)

RELOCATED TRAFFIC
SIGNS (2)

ASPHALT PAVEMENT FOR PARKING LOTS
AND MINOR PAVED ROADS, 821 SY
SEE DPR STANDARD
DETAIL 3, SHEET 15 (3 / 15)

CLEANOUT, TYP.
SEE DETAIL 2,
SHEET C901 (2 / C901)

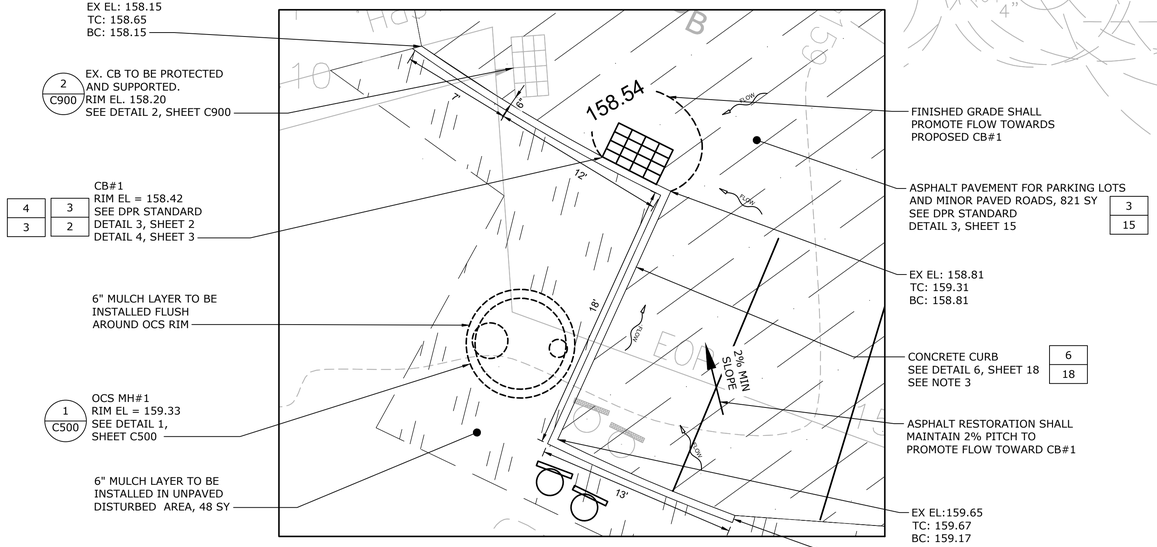
4 LF 12" HDPE @ 0.0% SLOPE

MH #1
RIM EL = 160.50
SEE DPR STANDARD
DETAIL 6 SHEET 2 (6 | 2)

REPAINT PARKING LOT
TO MATCH EXISTING, 500 LF
STALL DIMENSIONS = 18'L X 8'6"W (1 / 64)
SEE DPR STANDARD
DETAIL 1, SHEET 64
SEE NOTE 5

PLAN
SCALE: 1" = 10'

SCALE: 1" = 5'
SCALE: 1" = 10'



INSET MAP
SCALE: 1" = 5'

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Forestry, Horticulture and Natural Resources

SEAL: STATE OF NEW YORK · SANDEEP MEHROTRA · 087878 · LICENSED PROFESSIONAL ENGINEER

Hazen

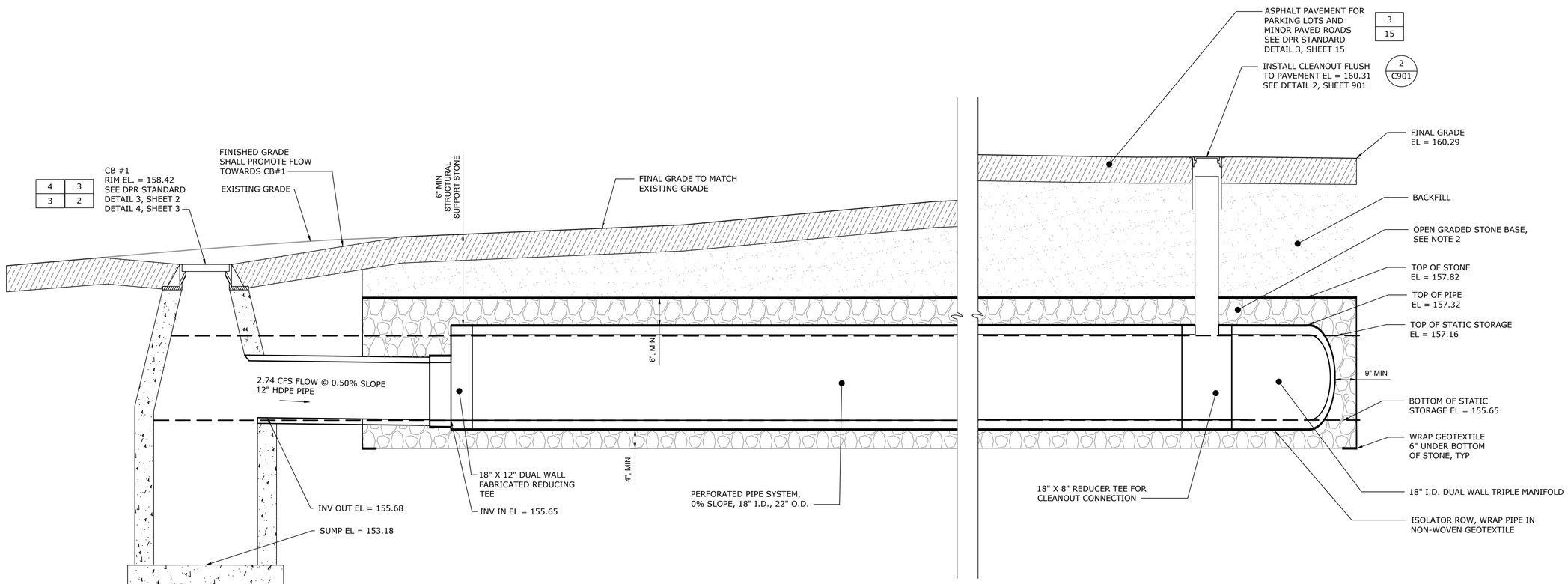
BLOCK 1117
LOT 1

PROJECT TITLE
LITCHFIELD VILLA
ON-SITE GREEN
INFRASTRUCTURE

DRAWING TITLE
MATERIALS PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
J. BRENNAN	T. MARSHALL	A. EASON

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 10'	C202	GI-CONS-6
	DATE MAR 2026		SHEET No. 7 OF 10 SHEETS



PROFILE 1

HORIZONTAL SCALE: 1"=2'
VERTICAL SCALE: 1"=1'

SCALE: 1" = 2' 2 1 0 2'

SCALE: 1" = 1' 1 0.5 0 1'

NOTES:

1. EXCAVATION FOR GI PRACTICE IS WITHIN TREE CRITICAL ROOT ZONES. IF TREE ROOTS ARE ENCOUNTERED, COORDINATE WITH ENGINEER.
2. OPEN GRADED STONE BASE SHALL BE A CLEAN WASHED COARSE AGGREGATE WITH A 40% VOID CONTENT.
3. THE WORK SHOWN HERE IN ITS ENTIRETY IS TO PROVIDE A STATIC STORAGE OF 4,295 CF AND IS CALCULATED BETWEEN EL. 155.65 AND EL. 157.16.

NO.	DATE	ISSUED FOR	BY

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SEAL

Hazen

BLOCK 1117

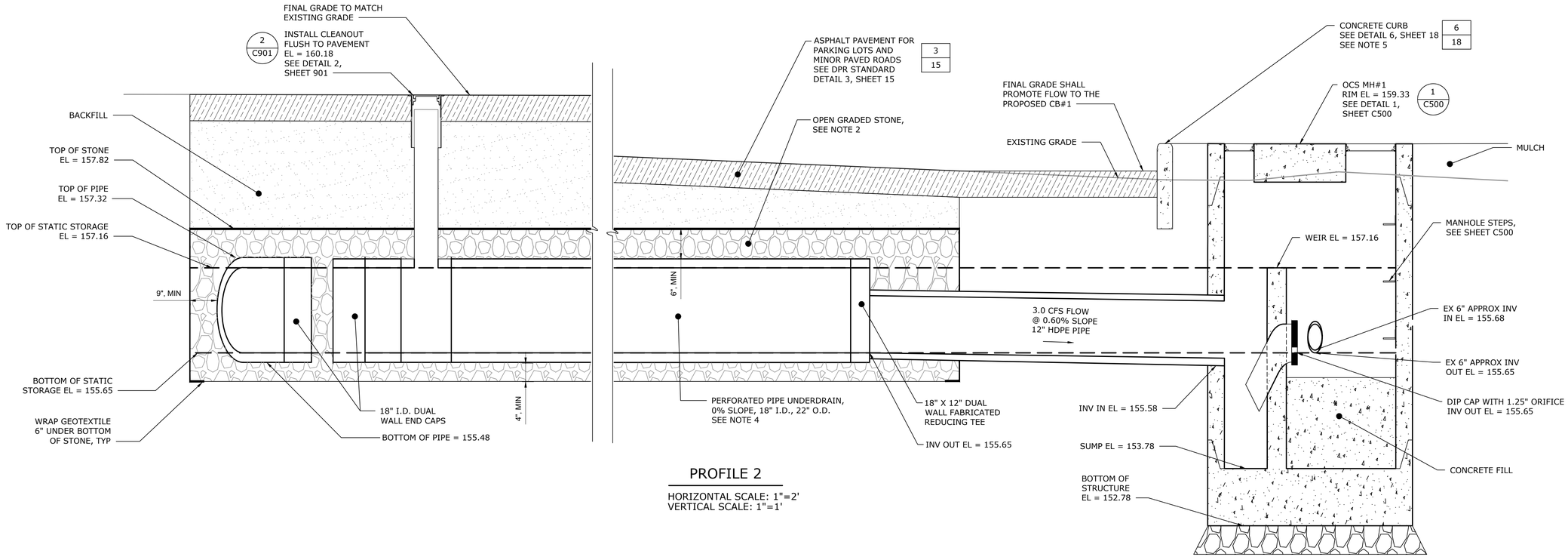
LOT 1

PROJECT TITLE
LITCHFIELD VILLA
ON-SITE GREEN
INFRASTRUCTURE

DRAWING TITLE
SECTIONS AND PROFILES - 1

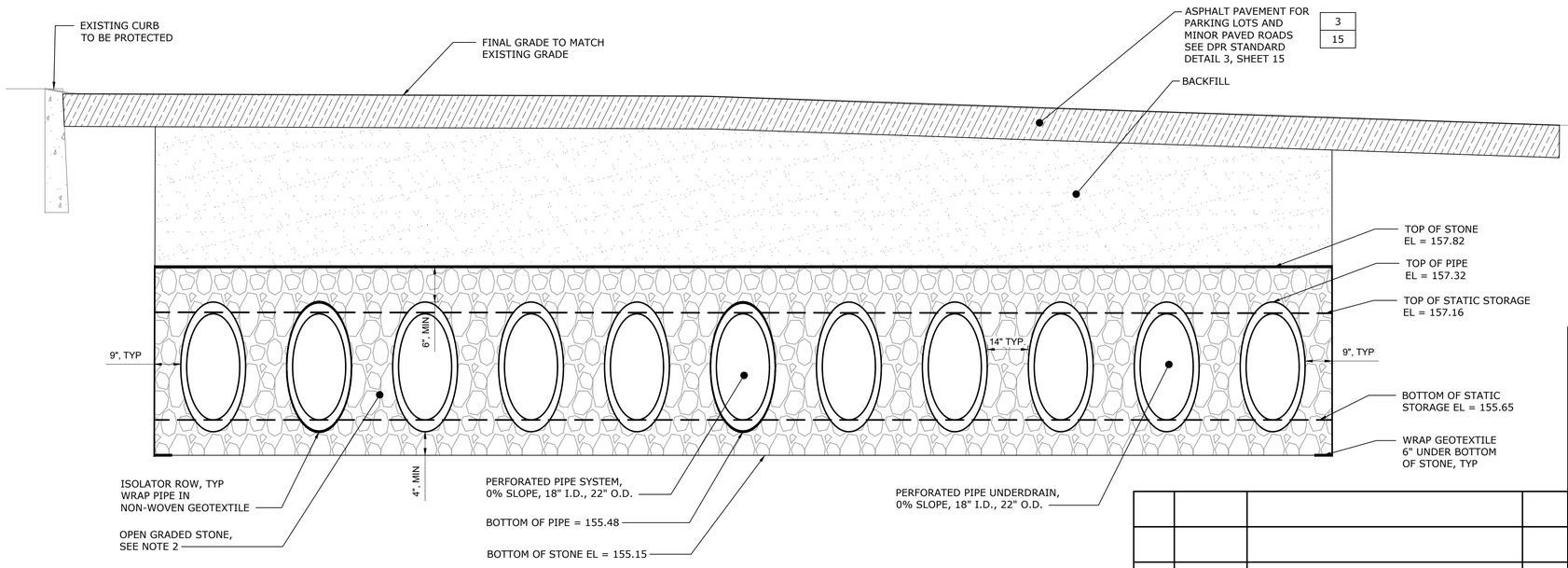
DESIGNED BY	DRAWN BY	CHECKED BY
J. BRENNAN	T. MARSHALL	A. EASON

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	AS SHOWN	C300	GI-CONS-6
	DATE NOV 2026		SHEET No. 8 OF 10 SHEETS



PROFILE 2

HORIZONTAL SCALE: 1"=2'
VERTICAL SCALE: 1"=1'



CROSS SECTION A

HORIZONTAL SCALE: 1"=2'
VERTICAL SCALE: 1"=1'

NOTES:

1. EXCAVATION FOR GI PRACTICE IS WITHIN TREE CRITICAL ROOT ZONES. IF TREE ROOTS ARE ENCOUNTERED, COORDINATE WITH ENGINEER.
2. OPEN GRADED STONE BASE SHALL BE A CLEAN WASHED COARSE AGGREGATE WITH A 40% VOID CONTENT.
3. THE WORK SHOWN HERE IN ITS ENTIRETY IS TO PROVIDE A STATIC STORAGE OF 4,295 CF AND IS CALCULATED BETWEEN EL. 155.65 AND EL. 157.16.
4. PERFORATED PIPE UNDERDRAIN IS TO BE CAPPED AT THE END TO PREVENT THE SYSTEM FROM SHORT CIRCUITING THROUGH THE MANIFOLD.
5. CONCRETE CURB SHALL BE INSTALLED WITH 6-INCHES OF REVEAL ABOVE THE PAVED SURFACE.

SCALE: 1" = 2' 2 1 0 2'
SCALE: 1" = 1' 1 0.5 0 1'

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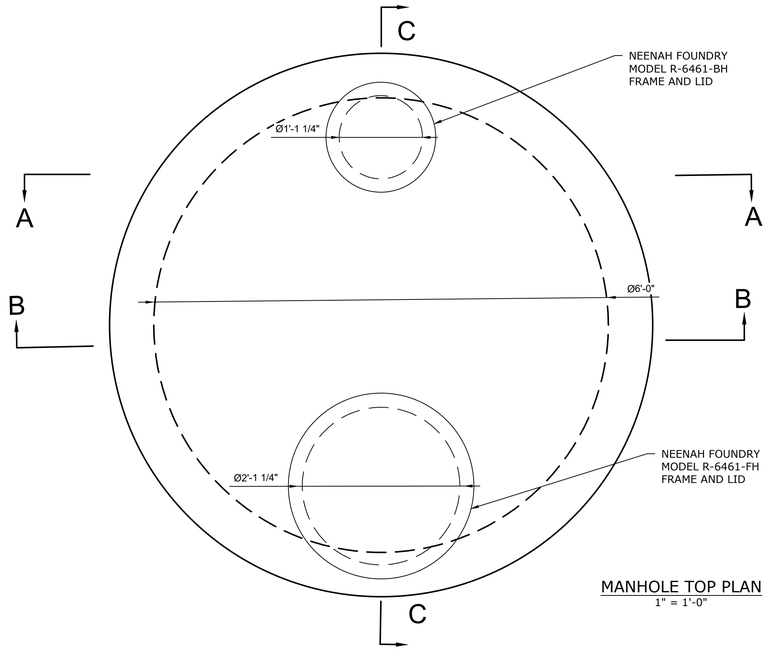
SEAL
STATE OF NEW YORK · SANDEEP MEHROTRA · 082926 · LICENSED PROFESSIONAL ENGINEER
Hazen
BLOCK 1117
LOT 1

PROJECT TITLE
LITCHFIELD VILLA
ON-SITE GREEN
INFRASTRUCTURE

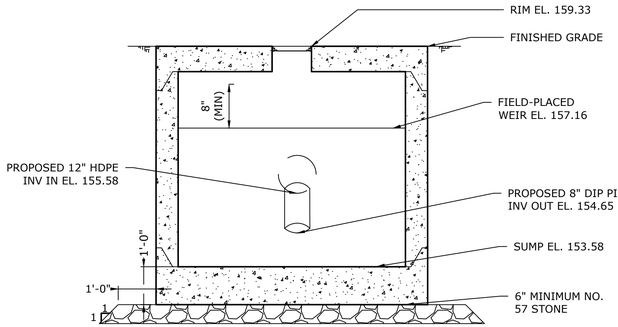
DRAWING TITLE
SECTIONS AND PROFILES - 2

DESIGNED BY	DRAWN BY	CHECKED BY
J. BRENNAN	T. MARSHALL	A. EASON

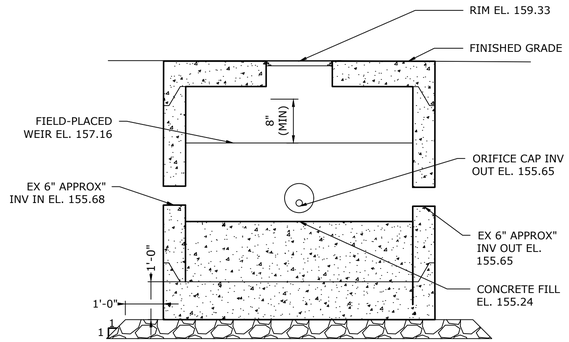
B-SCAN	SCALE: AS SHOWN	DRAWING NO.: C301	CONTRACT NO.: GI-CONS-6
	DATE: NOV 2026		SHEET No. 9 OF 10 SHEETS



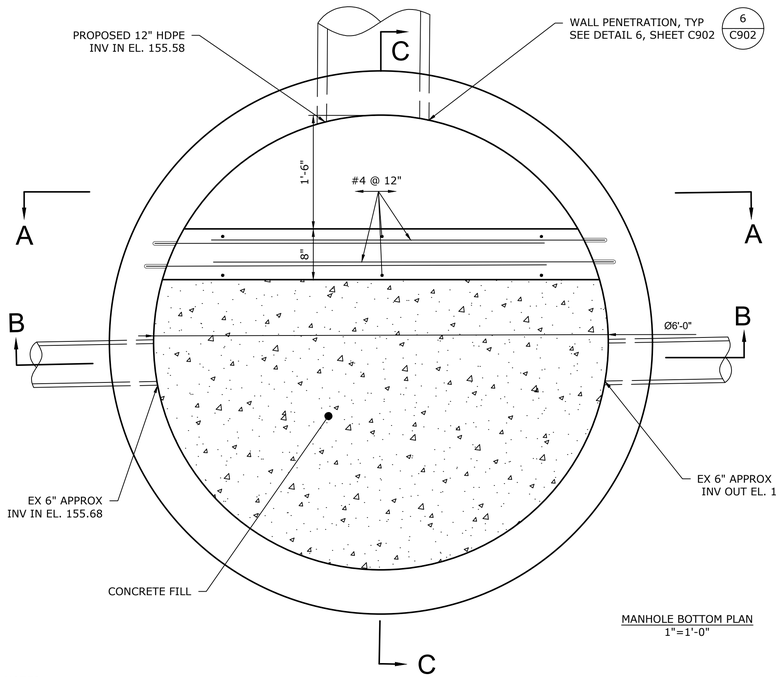
MANHOLE TOP PLAN
1" = 1'-0"



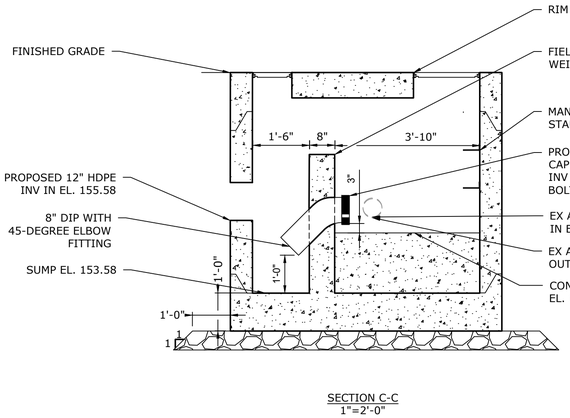
SECTION A-A
1"=2'-0"



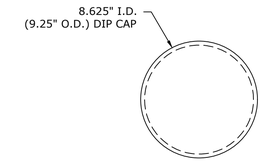
SECTION B-B
1"=2'-0"



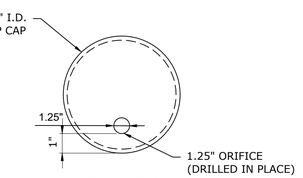
MANHOLE BOTTOM PLAN
1"=1'-0"



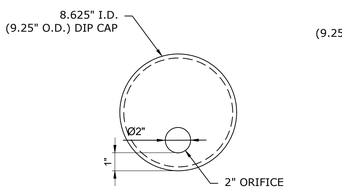
SECTION C-C
1"=2'-0"



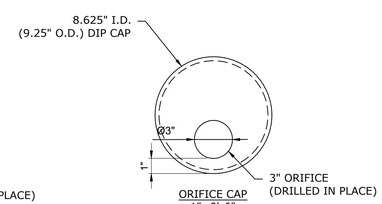
ORIFICE CAP
1"=0'-6"
FURNISH AND DELIVER 2 - SOLID CAPS
INSTALL 1 - SOLID CAP



ORIFICE CAP
1"=0'-6"
DRILL 1 - 1.25" ORIFICE CAP



ORIFICE CAP
1"=0'-6"
PLACEMENT OF 1 - 2" ORIFICE CAP IF NEEDED



ORIFICE CAP
1"=0'-6"
PLACEMENT OF 1 - 3" ORIFICE CAP IF NEEDED

NOTES:

1. CONTRACTOR SHALL SUPPLY TWO (2) SOLID DI PIPE CAPS FOR THE PROJECT. ONE (1) SOLID CAP SHALL BE INSTALLED IN THE FIELD. FOLLOWING INSTALLATION, THE 1.25" DIAMETER OPENING SHALL BE DRILLED AND TAPPED AS PER THE DETAILS ON THIS SHEET. THE REMAINING SOLID CAP SHALL BE TURNED OVER TO NYC DEP FOR FUTURE USE.
2. CONTRACTOR TO VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
3. REFER TO DETAILS 1-6 ON SHEET C902.
4. SEE GENERAL STRUCTURAL NOTES AND CONCRETE NOTES ON SHEET C902.
5. RUNGS SHOULD BE LOCATED 3" OFFSET FROM THE TOP SLAB OF THE MANHOLE, AND REPEAT EVERY 12".
6. BOLTS SHALL BE INSTALLED SO THAT THE BOLT HEAD IS ON THE WEIR WALL SIDE.

1" = 2' (2 1 0 2')

1 / C500 OCS MH#1 - MANHOLE WITH WEIR AND ORIFICE CAP DETAILS
AS SHOWN

NO.	DATE	ISSUED FOR	BY

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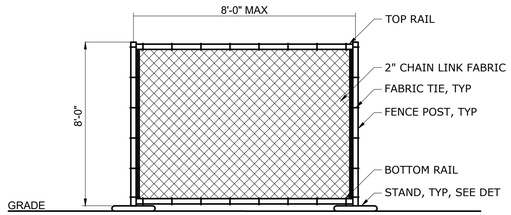
SEAL
STATE OF NEW YORK · DEEPAK MEHROTRA · 076986 · LICENSED PROFESSIONAL ENGINEER
Hazen
BLOCK 1117
LOT 1

PROJECT TITLE
LITCHFIELD VILLA
ON-SITE GREEN
INFRASTRUCTURE

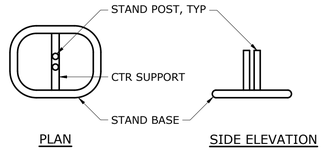
DRAWING TITLE
DETAILS - 1

DESIGNED BY	DRAWN BY	CHECKED BY
J. BRENNAN	T. MARSHALL	A. EASON

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	N/A	C500	GI-CONS-6
	DATE NOV 2026		SHEET No. 10 OF 10 SHEETS



ELEVATION

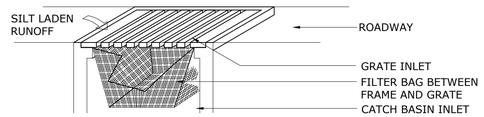


PLAN SIDE ELEVATION

STAND DETAIL

NOTES:
1. CONTRACTOR SHALL PROVIDE, AT A MINIMUM, TEMPORARY FENCE WITH DIMENSIONS AND APPURTENANCES AS SHOWN.
2. ALL OTHER DIMENSIONS, MATERIAL SIZES, MATERIAL TYPES, ACCESSORIES, ETC PER MANUFACTURER.
3. TEMPORARY FENCE SHALL REMAIN IN PLACE UNTIL CONCLUSION OF CONSTRUCTION.
4. SAND BAGS SHALL BE USED FOR POST SUPPORT IN ACCORDANCE WITH THE SPECIFICATIONS.

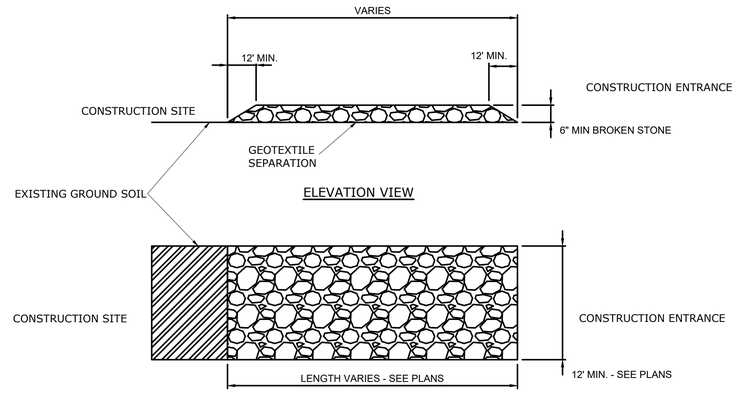
1 / C900 **TEMPORARY CONSTRUCTION FENCE**
NOT TO SCALE



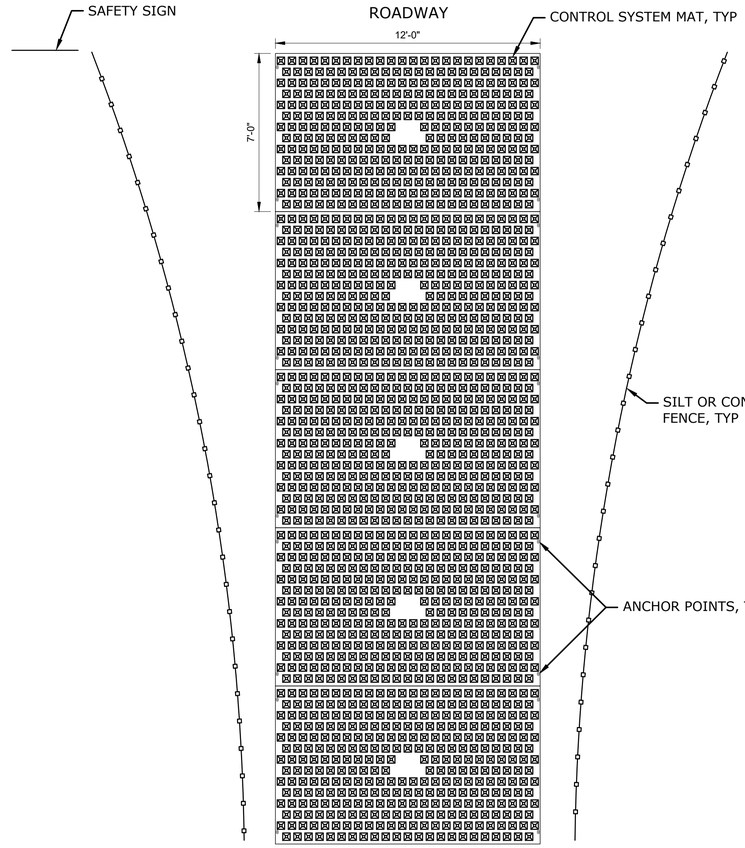
NOTE:
1. IN PAVED AREAS, USE FILTER BAG FOR INLET PROTECTION (NO MESH, BOX STONE REQUIRED).
2. FILTER BAG SHALL BE MANUFACTURED FROM A WOVEN POLYPROPYLENE GEOTEXTILE AND SEWN BY A DOUBLE NEEDLE MACHINE USING A HIGH STRENGTH NYLON THREAD.
3. BAG SHALL BE DANDY SACK® BY DANDY PRODUCTS INC., OR EQUAL, AS APPROVED BY THE ENGINEER.
4. WHEN INSTALLED, FILTER BAG SHALL BE SUCH THAT A MINIMUM OF 50% OF THE OPEN, UNOBSTRUCTED, DESIGN FLOW AREA OF THE STORM DRAIN INLET IS PRESERVED.
5. OUTFLOW PORTS ARE REQUIRED.

MAINTENANCE REQUIREMENTS:
1. INSPECT FILTER BAG ON A DAILY BASIS AND REMOVE ANY VISIBLE SEDIMENT OR DEBRIS. INLET PROTECTION SHALL BE MAINTAINED SUCH THAT A MINIMUM OF 50% OF THE OPEN, UNOBSTRUCTED, DESIGN FLOW AREA OF THE STORM DRAIN INLET IS PRESERVED.
2. DAMAGE TO THE BAG SHALL BE REPAIRED IMMEDIATELY.
3. WHEN THE RESTRAINT CORD IS NO LONGER VISIBLE, THE BAG IS FULL AND SHOULD BE EMPTIED.
4. USE 1" DIAMETER REBAR TO SLIDE THROUGH THE LIFTING LOOPS/POCKETS ON EACH SIDE OF THE BAG TO FACILITATE LIFTING.
5. REMOVE SEDIMENT FROM BAG AND DISPOSE OFF-SITE IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS.

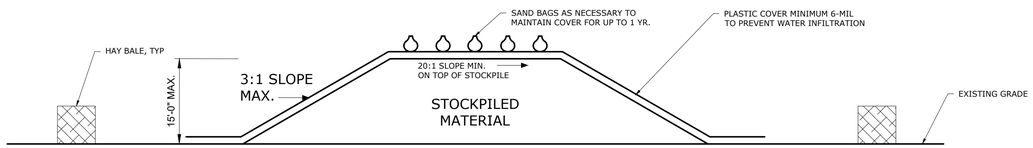
2 / C900 **INLET PROTECTION**
NOT TO SCALE



3 / C900 **STABILIZED CONSTRUCTION ENTRANCE**
NOT TO SCALE



4 / C900 **MODULAR CONSTRUCTION ENTRANCE DETAIL**
NOT TO SCALE



NOTES:
POLYETHYLENE SHEETING SHALL OVERLAP A MINIMUM OF 12-INCHES AND SHALL BE ANCHORED USING SANDBAGS OR EQUIVALENT (NON-PUNCTURING) WEIGHTS. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING COVERS ESPECIALLY IN PREPARATION FOR WINDY OR STORMY WEATHER. CONTRACTOR MUST MAINTAIN COVER ON STOCKPILE MATERIALS UNTIL REMOVED FROM SITE.

5 / C900 **STOCKPILE PROTECTION**
NOT TO SCALE

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Hazen

BLOCK

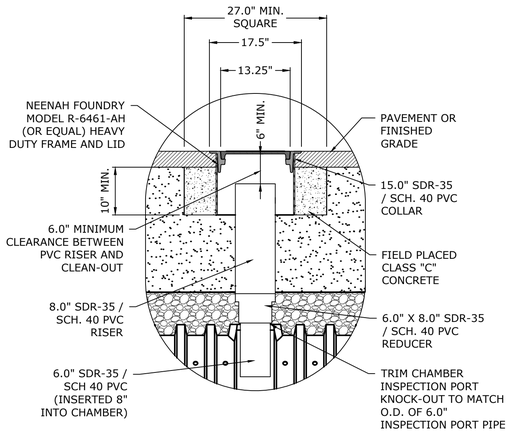
LOT

PROJECT TITLE
GI-P DESIGN ON-SITE
GREEN INFRASTRUCTURE

DRAWING TITLE
STANDARD DETAILS - 1

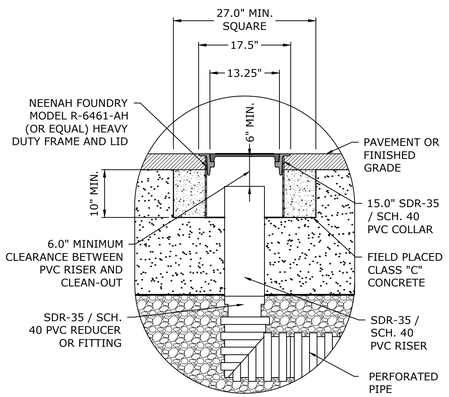
DESIGNED BY	DRAWN BY	CHECKED BY
A. EASON	S. KANE	J. BRENNAN

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	AS SHOWN	C900	GI-CONS-6
	DATE NOV 2026		SHEET No. 1 OF 3 SHEETS



1 C901 PAVED SURFACE CLEANOUT TO CHAMBERS

NOT TO SCALE



2 C901 PAVED SURFACE CLEANOUT TO PERFORATED PIPES

NOT TO SCALE

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BLOCK

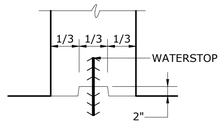
LOT

PROJECT TITLE
GI-P DESIGN ON-SITE
GREEN INFRASTRUCTURE

DRAWING TITLE
STANDARD DETAILS - 2

DESIGNED BY	DRAWN BY	CHECKED BY
A. EASON	S.KANE	J. BRENNAN

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	AS SHOWN	C901	GI-CONS-6
	DATE NOV 2026		SHEET No. 2 OF 3 SHEETS



1 / C902 TYPICAL KEYWAY
N.T.S.

BASIC DEVELOPMENT LENGTH AND SPLICE LENGTH
FOR UNCOATED BARS IN TENSION

** BASED ON MATERIALS AND CONDITIONS AS FOLLOWS:
fy = 60,000 psi — fc' = 4000 psi OR GREATER
CLEAR COVER≥ 1.5 INCHES — NORMAL WEIGHT CONCRETE

BASIC DEVELOPMENT LENGTH ℓd				BAR SIZE	CLASS B SPLICE LENGTH 1.3 x ℓd			
CLEAR SPACING≥ 3"		CLEAR SPACING <3"			CLEAR SPACING≥ 3"		CLEAR SPACING <3"	
BASIC	TOP *	BASIC	TOP *		BASIC	TOP *	BASIC	TOP *
1'-0"	1'-0"	1'-0"	1'-4"	# 3	1'-0"	1'-3"	1'-4"	1'-8"
1'-0"	1'-3"	1'-7"	2'-1"	# 4	1'-3"	1'-8"	2'-1"	2'-9"
1'-3"	1'-7"	2'-4"	3'-0"	# 5	1'-7"	2'-0"	3'-0"	3'-11"
1'-6"	1'-11"	3'-1"	4'-0"	# 6	1'-11"	2'-5"	4'-0"	5'-2"
2'-5"	3'-1"	4'-11"	6'-4"	# 7	3'-1"	4'-0"	6'-4"	8'-3"
3'-0"	3'-11"	6'-0"	7'-9"	# 8	3'-11"	5'-1"	7'-9"	10'-1"
3'-8"	4'-9"	6'-9"	8'-9"	# 9	4'-9"	6'-3"	8'-9"	11'-4"
4'-6"	5'-10"	7'-7"	9'-10"	# 10	5'-10"	7'-7"	9'-10"	12'-9"
5'-5"	7'-0"	8'-5"	10'-11"	# 11	7'-0"	9'-1"	10'-11"	14'-2"

* TOP REINFORCEMENT IS ANY HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCEMENT.

** FOR MATERIALS OR CONDITIONS DIFFERENT FROM THOSE STATED, LENGTHS SHOWN IN CHART SHALL BE MODIFIED TO CONFORM TO THE PROVISIONS OF ACI 318-14, SECTION 25.3.

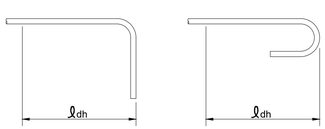
3 / C902 BASIC DEVELOPMENT LENGTH AND SPLICE LENGTH
N.T.S.

DEVELOPMENT LENGTH OF STANDARD HOOKS
FOR UNCOATED BARS IN TENSION

fy = 60,000 psi — fc' = 4000 psi OR GREATER

BAR SIZE	DEVELOPMENT LENGTH, ℓdh	
	BASIC	W/ CONC COVER *
#3	8"	6"
#4	10"	7"
#5	1'-0"	9"
#6	1'-3"	11"
#7	1'-5"	1'-0"
#8	1'-7"	1'-2"
#9	1'-10"	1'-4"
#10	2'-1"	1'-6"
#11	2'-3"	1'-7"

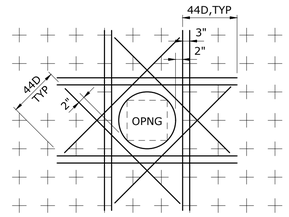
* SIDE COVER NORMAL TO PLANE OF HOOK AT LEAST 2 1/2"; AND FOR 90° HOOK, END COVER BEYOND OUTSIDE END OF HOOK AT LEAST 2".



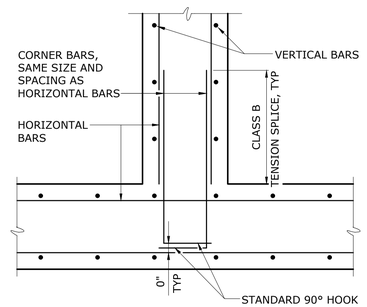
4 / C902 DEVELOPMENT LENGTH OF STANDARD HOOKS
N.T.S.

NOTES:

1. THIS DETAIL APPLIES FOR OPENINGS 8"Ø AND LARGER. FOR SMALLER OPENINGS, BEND BARS OR ADJUST SPACING OF REINFORCEMENT TO AVOID OPENING.
2. PLACE EXTRA BARS OF THE SAME SIZE AS THE INTERRUPTED BARS AT EACH SIDE OF OPENING. QUANTITY OF EXTRA BARS AT EACH SIDE SHALL EQUAL HALF THE QUANTITY OF INTERRUPTED BARS EXCEPT WHERE NOTED OTHERWISE.
3. PROVIDE ONE DIAGONAL BAR EACH SIDE OF OPENING WITH SIZE EQUAL TO MAIN REINFORCEMENT, TYPICAL EACH FACE.
4. WHERE INVERT OF OPENING IN WALL IS LESS THAN 44 BAR DIAMETERS FROM TOP OF SLAB, EXTRA REINFORCEMENT ON EACH SIDE SHALL INCLUDE DOWELS EMBEDDED INTO SLAB WITH STANDARD 90 DEGREE HOOKS TO SPLICE WITH EXTRA VERTICAL REINFORCEMENT. DOWELS SHALL ALSO STILL BE PROVIDED BELOW OPENING.
5. WHERE INVERT OF OPENING IN WALL OR SLAB IS CLOSER THAN 44 BAR DIAMETERS TO EDGE OF SLAB OR BOTTOM OF WALL, EXTRA DIAGONAL BARS MAY BE TERMINATED TWO INCHES FROM EDGE OF SLAB OR BOTTOM OF WALL. DOWELS DO NOT HAVE TO BE PROVIDED TO SPLICE WITH DIAGONAL BARS.

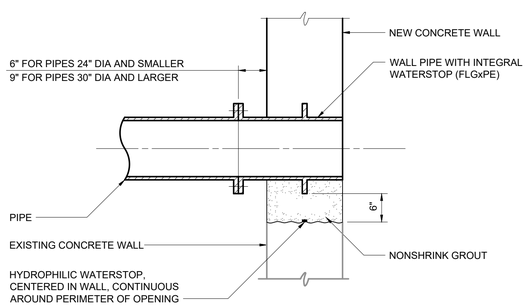


2 / C902 TYPICAL REINFORCEMENT AT OPENINGS
N.T.S.



* = STD 90° HOOK LENGTH

5 / C902 INTERSECTION TYPICAL WALL REINFORCING
N.T.S.



6 / C902 TYPICAL WALL PIPE
N.T.S.

GENERAL STRUCTURAL NOTES:

1. THESE NOTES ARE GENERAL AND SUPPLEMENT THE SPECIFICATIONS. THESE NOTES APPLY TO THE ENTIRE PROJECT UNLESS MODIFIED OR NOTED OTHERWISE IN THE CONTRACT DOCUMENTS.
2. STANDARD DETAILS SHALL BE USED WHEN REFERRED TO OR WHEN NO MORE RESTRICTIVE OR DIFFERENT DETAILS ARE SHOWN ON THE DRAWINGS.
3. DESIGN SHALL BE ACCORDANCE WITH AND CONSTRUCTION SHALL COMPLY WITH THE PROVISIONS OF NEW YORK CITY BUILDING CODE. THE DESIGN LOADS AND OTHER DESIGN VALUES GIVEN IN NOTES WERE USED FOR DESIGN OF STRUCTURES UNLESS NOTED OTHERWISE ON THE DRAWINGS.
4. LIVE LOAD:

STRUCTURE	ROOF
MANHOLE	HS-20

5. STRUCTURAL DIMENSIONS NOT SHOWN BUT CONTROLLED BY OR RELATED TO EQUIPMENT SHALL BE VERIFIED BY THE CONTRACTOR WITH THE MANUFACTURER PRIOR TO CONSTRUCTION.
6. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING INFORMATION IN THE FIELD AS REQUIRED FOR NEW WORK.
7. IF A CONFLICT IS FOUND BETWEEN DIFFERENT PORTIONS OF THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. CONTINUED CONSTRUCTION OF THE AREA IN CONFLICT SHALL BE AT THE CONTRACTOR'S OWN RISK UNTIL THE CONFLICT IS RESOLVED.
8. EQUIPMENT ANCHOR BOLT SIZES, TYPES, EMBEDMENT AND PATTERNS SHALL BE VERIFIED WITH THE MANUFACTURER. ALL BOLT PATTERNS SHALL BE TEMPLATED TO INSURE ACCURACY OF PLACEMENT.
9. STRUCTURAL DRAWINGS SHALL BE USED IN COORDINATION WITH OTHER CONTRACT DRAWINGS AND MANUFACTURER'S SHOP DRAWINGS.
10. STRUCTURES SHALL BE DESIGNED FOR OPERATIONAL LOADS ON THE COMPLETED STRUCTURE. DURING CONSTRUCTION, THE STRUCTURES SHALL BE PROTECTED BY BRACING AND TEMPORARY SUPPORTS WHEREVER EXCESSIVE CONSTRUCTION LOADS MAY OCCUR. OVERSTRESSING ANY STRUCTURAL ELEMENT IS PROHIBITED.
11. IF CONTRACTOR DESIRES TO TEMPORARILY PLACE OR MOVE LOADS ON OR ADJACENT TO EXISTING STRUCTURES OR UTILITIES DURING CONSTRUCTION PROCESS, CONTRACTOR IS EXCLUSIVELY RESPONSIBLE FOR MAINTAINING STRUCTURAL INTEGRITY AND AVOIDING OVERSTRESSING AND DAMAGING EXISTING STRUCTURES AND UTILITIES. CONTRACTOR SHALL SUBMIT STRUCTURAL CALCULATIONS AND DRAWINGS VERIFYING PROPOSED CONSTRUCTION INCLUDING APPLICATION OF TEMPORARY CONSTRUCTION LOADS WILL NOT OVERSTRESS OR DAMAGE EXISTING STRUCTURES AND UTILITIES. DRAWINGS AND CALCULATIONS SHALL BE SEALED BY A PROFESSIONAL ENGINEER CURRENTLY REGISTERED IN THE STATE OF NEW YORK.
12. NO BACKFILL SHALL BE PLACED AGAINST ANY SUBSTRUCTURE WALLS UNLESS ALL ADJACENT SUPPORTING ELEMENTS HAVE ACHIEVED DESIGN STRENGTH, OR WALLS HAVE BEEN PROPERLY BRACED, AND IN ANY CASE NOT SOONER THAN 28 DAYS AFTER THE PLACING OF CONCRETE UNLESS APPROVED BY THE ENGINEER. SUPPORTING ELEMENTS SHALL INCLUDE ADJACENT WALLS, SLABS, BEAMS AND COLUMNS.
13. LEAKAGE TESTING OF HYDRAULIC STRUCTURES SHALL NOT BEGIN UNTIL ALL STRUCTURAL ELEMENTS HAVE REACHED THE SPECIFIED MINIMUM CONCRETE STRENGTH. BACKFILL SHALL NOT BE PLACED AROUND ANY HYDRAULIC STRUCTURE UNTIL THE LEAKAGE TEST HAS BEEN COMPLETED UNLESS APPROVED BY THE ENGINEER.

PRECAST CONCRETE:

1. PRECAST VAULTS AND MANHOLES SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NEW YORK. STRUCTURAL DRAWINGS SHALL INDICATE DESIGN IS IN COMPLIANCE WITH THE NEW YORK CITY BUILDING CODE.
2. PRECAST CONCRETE STRUCTURES SHALL BE IN ACCORDANCE WITH THE CONTRACT SPECIFICATION 33 05 61, 03 04 00, 03 48 00, AND 33 46 16. ALL JOINTS SHALL BE SEALED IN ACCORDANCE TO SPECIFICATION.

CONCRETE

1. DESIGN OF CONCRETE ELEMENTS INCLUDING WALLS, FORMED SLABS, BEAMS, AND COLUMNS IS IN ACCORDANCE WITH ACI 318 (CODE REQUIREMENTS FOR STRUCTURAL CONCRETE) AND 350 (CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES).
2. FOR CONCRETE MIX DESIGN SEE SPECIFICATION SECTION 03300.
3. CONCRETE STRENGTH CLASSES (28-DAY COMPRESSIVE STRENGTH):
   A) CLASS 50 PRECAST (5,000 PSI) : ALL PRECAST ELEMENTS AND STRUCTURES.
   B) CLASS 25 CONCRETE (3000 PSI): NORMAL WEIGHT STRUCTURAL CONCRETE USED FOR CONCRETE FILL.
4. ALL BAR REINFORCING SHALL CONFORM TO ASTM A615, GRADE 60. WHERE REINFORCEMENT IS TO BE WELDED IN ACCORDANCE WITH AWS D1.4, ASTM A706 GRADE 60 SHALL BE USED. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
5. CONCRETE COVER FOR REINFORCING (UNLESS NOTED OTHERWISE ON THE DRAWINGS):
   A) CONCRETE DEPOSITED DIRECTLY AGAINST SOIL: 3"
   B) ALL OTHER LOCATIONS: 2"
6. SPLICES SHALL B CLASS "B" CONFORMING TO THE PROVISIONS OF ACI 318 UNLESS NOTED OTHERWISE. SPLICE LENGTH FOR TWO DIFFERENT SIZED BARS TO BE LAP SPLICED TOGETHER SHALL BE THE LENGTH OF THE LARGER BAR UNLESS NOTED OTHERWISE.
7. CONSTRUCTION JOINTS SHALL BE LOCATED AS SHOWN ON THE DRAWINGS. CONSTRUCTION JOINTS NOT SHOWN SHALL BE SUBMITTED BY THE CONTRACTOR FOR THE APPROVAL OF THE ENGINEER PRIOR TO SUBMITTING REBAR SHOP DRAWINGS.
8. ALL JOINTS WHICH ARE IN MEMBERS IN CONTACT WITH LIQUID OR BELOW GRADE SHALL HAVE A WATERSTOP. CONSTRUCTION JOINTS SHALL HAVE A 6" PVC RIBBED WATERSTOP.
9. SLABS WITH SLOPING SURFACES SHALL HAVE THE INDICATED SLAB THICKNESS MAINTAINED AS THE MINIMUM SLAB BOTTOMS CAN EITHER SLOPE WITH THE TOP SURFACE OR BE LEVEL. REINFORCEMENT IN SLABS WITH SLOPING SURFACES SHALL BE PLACED AT THE REQUIRED CLEARANCE FROM THE SLAB SURFACE.
10. ALL EXPOSED CORNERS SHALL HAVE A ¾" CHAMFER OR A ½" RADIUS TOOLED CORNER.
11. EQUIPMENT SUPPORTS, ANCHORAGES, OPENINGS, RECESSES AND REVEALS NOT SHOWN ON THE STRUCTURAL DRAWINGS BUT REQUIRED BY OTHER CONTRACT DOCUMENTS, SHALL BE PROVIDED FOR PRIOR TO PLACING CONCRETE.
12. REINFORCING BARS AND ACCESSORIES SHALL NOT BE IN CONTACT WITH ANY MENTAL PIPE, PIPE FLANGE, METAL CONDUIT, OR OTHER METAL PARTS EMBEDDED IN CONCRETE. A MINIMUM CLEARANCE OF 2" SHALL BE PROVIDED.
13. DOWELS, ANCHOR BOLTS, PIPES, WATERSTOPS AND OTHER EMBEDDED ITEMS SHALL BE HELD SECURELY IN POSITION WHILE CONCRETE IS BEING PLACED.
14. CONDUITS AND OTHER SIMILAR ITEMS EMBEDDED IN OR PENETRATING THROUGH CONCRETE SHALL BE SPACED ON CENTER NOT LESS THAN 3 TIMES THEIR OUTSIDE DIMENSION, NOT LESS THAN 2 ½" CLEAR. WHEN SUCK ITEMS ARE EMBEDDED IN WALLS OR SLABS, THEY SHALL NOT OCCUPY MORE THAN 1/3 OF THE MEMBER THICKNESS.
15. DRILLED ADHESIVE DOWELS AND CONCRETE ANCHORS (WHERE DOWELS OR ANCHORS ARE SHOWN TO BE PLACED INTO HARDENED CONCRETE):
   A) THE HOLE DIAMETER SHALL BE NO LARGER THAN 1/8" GREATER THAN THE DIAMETER OF THE REINFORCING BAR AT THE DEFORMATIONS FOR DOWELS. THE HOLE DIAMETER SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS FOR ANCHORS.
   B) THE DEPTH OF EMBEDMENT SHALL BE 12 BAR DIAMETERS, UNLESS NOTED OTHERWISE.
   C) ADJUST THE DOWEL OR ANCHOR LOCATIONS AS NEEDED TO AVOID DRILLING THROUGH ANY REINFORCING BARS. IF THE LOCATION NEEDS TO BE MODIFIED, CONTACT THE ENGINEER. CONTRACTOR SHALL USE NON-DESTRUCTIVE MEANS TO FIELD LOCATE REINFORCEMENT PRIOR TO DRILLING HOLES FOR DOWELS OR ANCHORS.
16. CLEAR DISTANCE FROM ANCHOR RODS TO ANY CONCRETE EDGE SHALL BE 4" MINIMUM UNLESS NOTED OTHERWISE.
17. CONCRETE COMPRESSIVE STRENGTH TESTS SHALL BE AVAILABLE ON THE JOB SITE FOR REVIEW BY THE ENGINEER.

NYC Environmental Protection

CITY OF NEW YORK
ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis

NYC Parks

CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

SEAL
STATE OF NEW YORK — SANDEEP MEHROTRA — 082674 — LICENSED PROFESSIONAL ENGINEER
Hazen
BLOCK
LOT

PROJECT TITLE
GI-P DESIGN ON-SITE
GREEN INFRASTRUCTURE

DRAWING TITLE
STANDARD DETAILS - 3

DESIGNED BY	DRAWN BY	CHECKED BY
A. EASON	S. KANE	J. BRENNAN

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	AS SHOWN	C902	GI-CONS-6
	DATE: NOV 2026		SHEET No. 3 OF 3 SHEETS