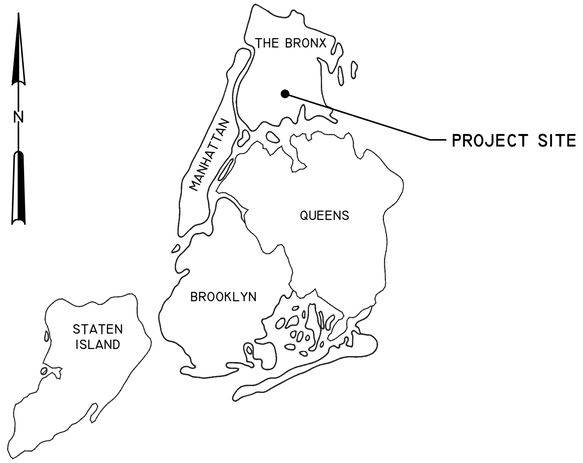
NEW YORK CITY ENVIRONMENTAL PROTECTION
BUREAU OF ENVIRONMENTAL PLANNING & ANALYSIS

NYC Parks

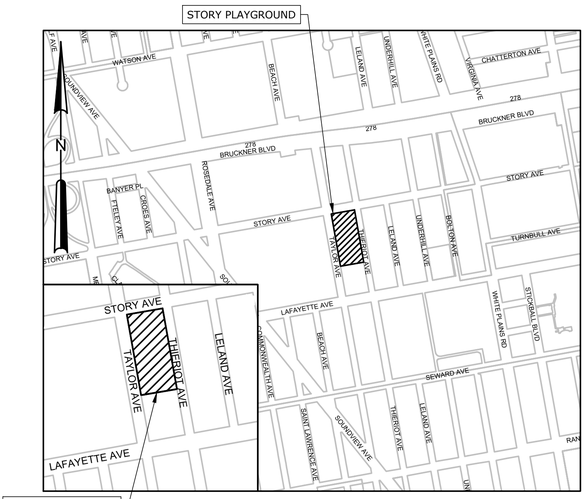
ON-SITE GREEN INFRASTRUCTURE
EAST RIVER CSO TRIBUTARY AREA
OUTFALL HP-013
DEP CAPITAL CONTRACT NO. GX-P-STOR



X204 - STORY PLAYGROUND
BBL 2036410001

THE BRONX, NY

BID SUBMISSION
NOVEMBER 2026



LOCATION PLAN

SHEET LIST	
Sheet Number	Sheet Title
G001	COVER SHEET
S001	TOPOGRAPHIC SURVEY PLAN
C100	TREE PROTECTION, STAGING, AND ACCESS PLAN
C101	REMOVAL / DEMOLITION PLAN
C200	PROPOSED GREEN INFRASTRUCTURE LAYOUT PLAN
C201	MATERIALS PLAN
C300	SECTIONS AND PROFILES
C500	DETAILS -1
C501	DETAILS - 2
C600	SITE DETAILS - 1
C601	SITE DETAILS - 2
C602	SITE DETAILS - 3

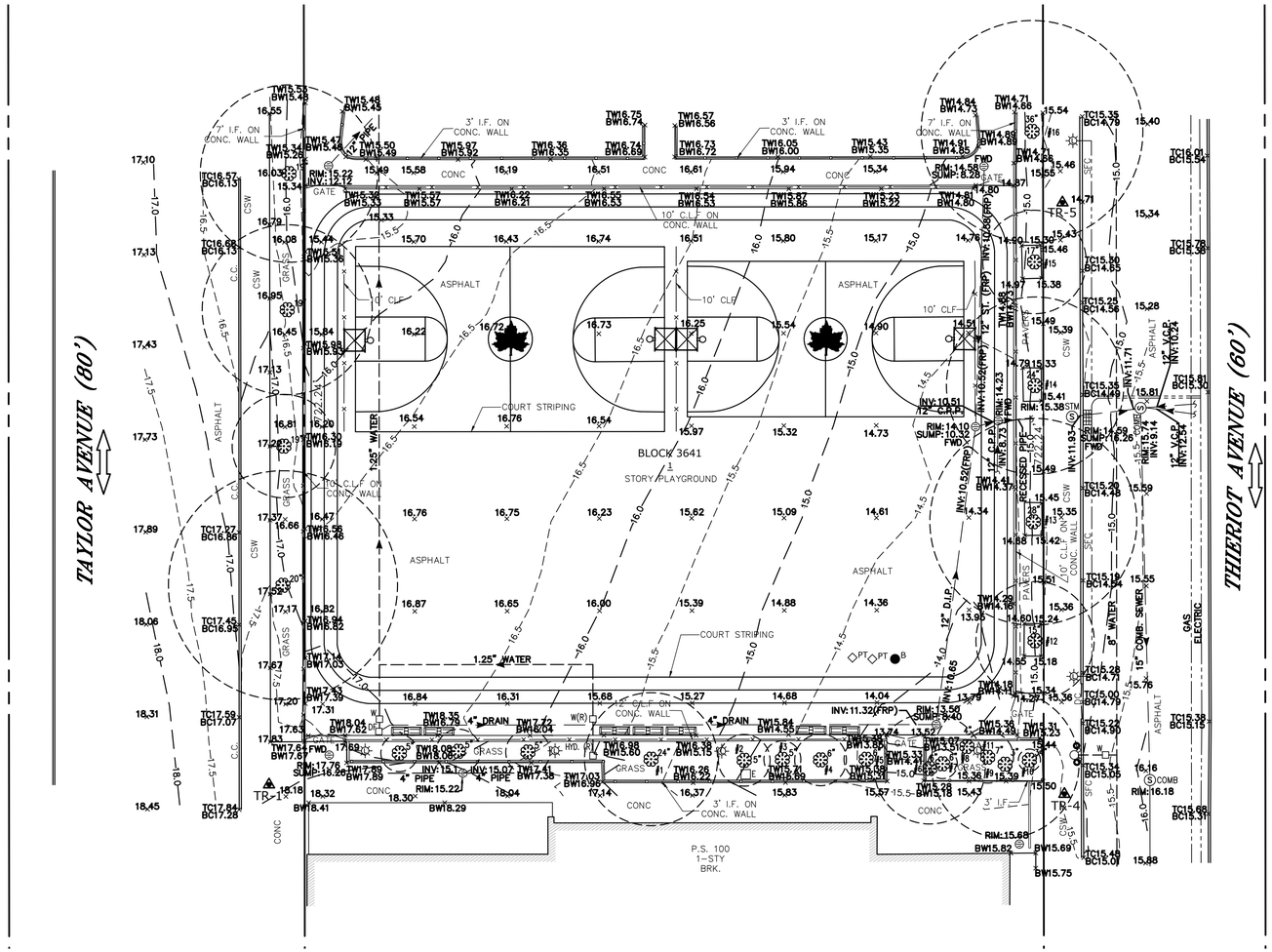
John McLaughlin
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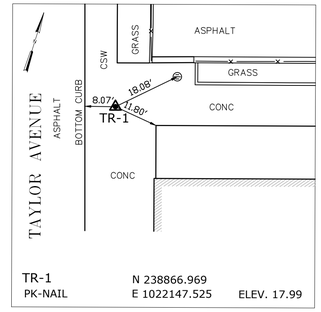
JOHN MCLAUGHLIN
MANAGING DIRECTOR
OFFICE OF ECOSYSTEM SERVICES, GREEN INFRASTRUCTURE AND RESEARCH
BUREAU OF ENVIRONMENTAL PLANNING & ANALYSIS, NYCDEP

Lisa F. Garcia
Digitally signed by Lisa F. Garcia
Date: 2026.10.30 14:03:00 -04'00'

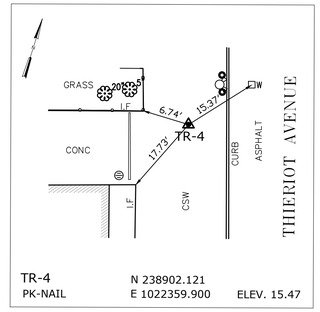
LISA F. GARCIA
COMMISSIONER
NYCDEP

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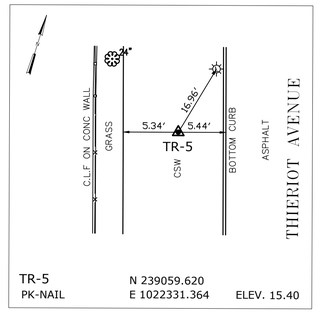




TR-1
PK-NAIL
N 238866.969
E 1022147.525
ELEV. 17.99



TR-4
PK-NAIL
N 238902.121
E 1022359.900
ELEV. 15.47



TR-5
PK-NAIL
N 239059.620
E 1022331.364
ELEV. 15.40

TIES

N.T.S.

NOTES:

1. HORIZONTAL CONTROL REFERS TO THE NEW YORK STATE PLANE COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 NAD83, ZONE N.Y.L.I. 3104.
2. ALL ELEVATIONS SHOWN HEREON REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
3. THIS MAP WAS PREPARED FROM DATA COLLECTED BY AN ACTUAL FIELD SURVEY CONDUCTED DURING JANUARY 2020 BY MUNOZ ENGINEERING & LAND SURVEY D.P.C.
4. NAVD88 IS 1.508 FEET BELOW BRONX DATUM
5. 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.

"UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF ARTICLE 134 SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW"

"Copies from the original of this survey map not marked with an original of the land surveyor's inked seal or his embossed seal shall not be considered a valid true copy."

0 10' 20' 40' 60'

1" = 20'

NO.	DATE	ISSUED FOR	BY

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NYC Parks

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

SEAL

STATE OF NEW YORK — MATTHEW ZIOLKOWSKI — 050563 — LICENSED LAND SURVEYOR

BLOCK 3641

LOT 1

PROJECT TITLE
GREEN INFRASTRUCTURE RETROFIT OF STORY PLAYGROUND
EAST RIVER CSO TRIBUTARY AREA
STORY AVENUE BETWEEN TAYLOR AVENUE AND THIERIOT AVENUE

DRAWING TITLE
TOPOGRAPHIC SURVEY PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
N/A	M.A.	J.J.

B-SCAN

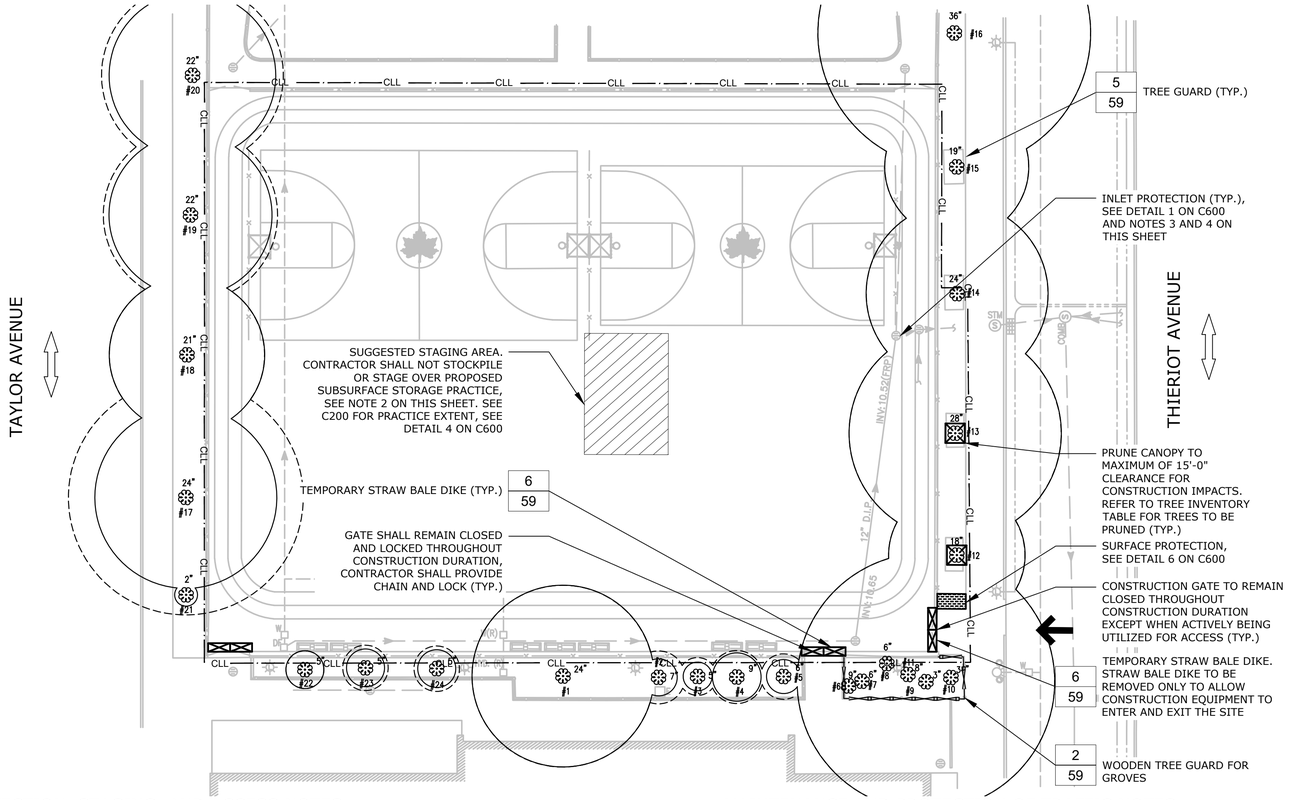
SCALE: 1" = 20'

DRAWING NO.: S001

DATE: MARCH 2020

CONTRACT NO.: GX-P-STOR

SHEET No. 2 OF 11 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	LONDON PLANETREE	24	100%	24.0																						
2	LONDON PLANETREE	7	100%	4.9																						
3	PEAR, CALLERY	5	100%	3.8																						
4	LONDON PLANETREE	9	100%	6.4																						
5	PEAR, CALLERY	6	100%	4.1					X																	
6	ELM, CHINESE	9	100%	8.5					X							X										
7	LONDON PLANETREE	6	100%	4.5					X							X										
8	BLACK LOCUST	6	100%	3.0					X							X										
9	MULBERRY, WHITE	3	100%	3.0					X							X										
10	LONDON PLANETREE	34	100%	34.0					X							X										
11	MULBERRY, WHITE	8	100%	6.0					X							X										
12	LONDON PLANETREE	18	100%	18.0					X						X											
13	LONDON PLANETREE	28	100%	28.0					X						X											
14	LONDON PLANETREE	24	100%	24.0																						
15	LONDON PLANETREE	19	100%	19.0																						
16	LONDON PLANETREE	36	100%	36.0																						
17	LONDON PLANETREE	24	0%	24.0																						
18	LONDON PLANETREE	21	0%	20.5																						
19	LONDON PLANETREE	22	0%	21.5																						
20	LONDON PLANETREE	22	59%	22.0																						
21	LONDON PLANETREE	2	97%	3.0																						
22	PEAR, COMMON	5	69%	5.0																						
23	PEAR, COMMON	5	72%	5.0																						
24	PEAR, COMMON	5	81%	5.0																						

TREE PROTECTION, STAGING, AND ACCESS NOTES

1. THE TREE PROTECTION ZONE (T.P.Z.) SHALL CONSIST OF THE CRITICAL ROOT ZONE AND/OR THE CANOPY DRIPLINE; WHICHEVER EXTENT IS GREATER.
2. NO HEAVY EQUIPMENT, MACHINERY, OR STOCKPILING OF MATERIALS IS PERMITTED WITHIN THE T.P.Z. OF ANY EXISTING TREES THROUGHOUT THE COURSE OF THE CONTRACT.
3. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL REMAIN UNTIL ALL EXCAVATED AREAS HAVE BEEN STABILIZED.
4. INSTALL INLET PROTECTION ON ALL DRAINAGE STRUCTURES WITHIN THE CONTRACT LIMIT LINE.
5. SEE GENERAL NOTES FOR TREE PROTECTION NOTES.
6. TREE PROTECTION PLAN BASED ON UPDATED TREE INVENTORY PERFORMED IN JULY 2025.
7. TREE PROTECTION SHALL BE CONFIRMED BY NYC PARKS DURING PRE-CONSTRUCTION WALKTHROUGH. CONTRACTOR SHALL NOT INSTALL TREE PROTECTION MEASURES UNTIL APPROVED BY NYC PARKS.

LEGEND

- TREE DRIPLINE
- TREE CRITICAL ROOT ZONE
- CONSTRUCTION ACCESS/ENTRANCE
- TREE GUARD
- STRAW BALE DIKE
- STAGING AREA
- SURFACE PROTECTION, SEE DETAIL 6 ON C600
- WOODEN TREE GUARD FOR GROVES
- CF — 8'-0" HEIGHT CONSTRUCTION FENCE

MAINTENANCE AND PROTECTION OF TRAFFIC NOTES

1. SEE COMPLETE LIST OF SPECIAL STIPULATIONS AND GENERAL NOTES IN THE OCMC FILE NO. CEC-24-336 DATED 8/14/2024.
2. WORK HOURS ARE 7A.M.-6P.M., MONDAY THROUGH FRIDAY IF SCHOOL IS NOT IN SESSION. WORK HOURS ARE 9A.M.-2P.M., MONDAY THROUGH FRIDAY IF SCHOOL IS IN SESSION. THE CONTRACTOR MUST NOTIFY P.S. 100 ISAAC CLASON A MINIMUM OF FOUR (4) WEEKS PRIOR TO MOBILIZING.
3. THE CONTRACTOR MAY OCCUPY 20 L.F. OF WEST PARKING 8 FEET ADJACENT TO WEST CURB OF THIERIOT AVENUE TO STORE MATERIALS. THE STORAGE AREA MAY STAY AFTER WORK HOURS.
4. THE CONTRACTOR MUST MAINTAIN A 5'-0" WIDE WALKWAY ON THE WEST SIDEWALK OF THIERIOT AVENUE AT ALL TIMES. THERE SHALL BE NO IMPACT AT ANY TIME ON THE EAST SIDEWALK OF THIERIOT AVENUE.
5. THERE SHALL BE NO IMPACT AT ANY TIME ON WESTBOUND THIERIOT AVENUE MOVING LANE OR EASTBOUND THIERIOT AVENUE MOVING AND PARKING LANES.
6. THE CONTRACTOR MUST MAINTAIN ACCESS TO FIRE HYDRANT ON THIERIOT AVENUE AT ALL TIMES.
7. A CERTIFIED FLAG PERSON MUST BE PROVIDED TO STOP PEDESTRIAN AND/OR VEHICULAR TRAFFIC WHEN CONSTRUCTION VEHICLES ARE CROSSING THE SIDEWALK.
8. NO CONNEX BOX IS ALLOWED ON CITY SIDEWALKS AT ANY TIME.

20 10 0 20'
1"=20'

NO.	DATE	ISSUED FOR	BY

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Forestry, Horticulture and Natural Resources

SEAL: STATE OF NEW YORK · MICHAEL DAVID BRAUN · 101288 · LICENSED PROFESSIONAL ENGINEER

HDR

BLOCK 3641
LOT 1

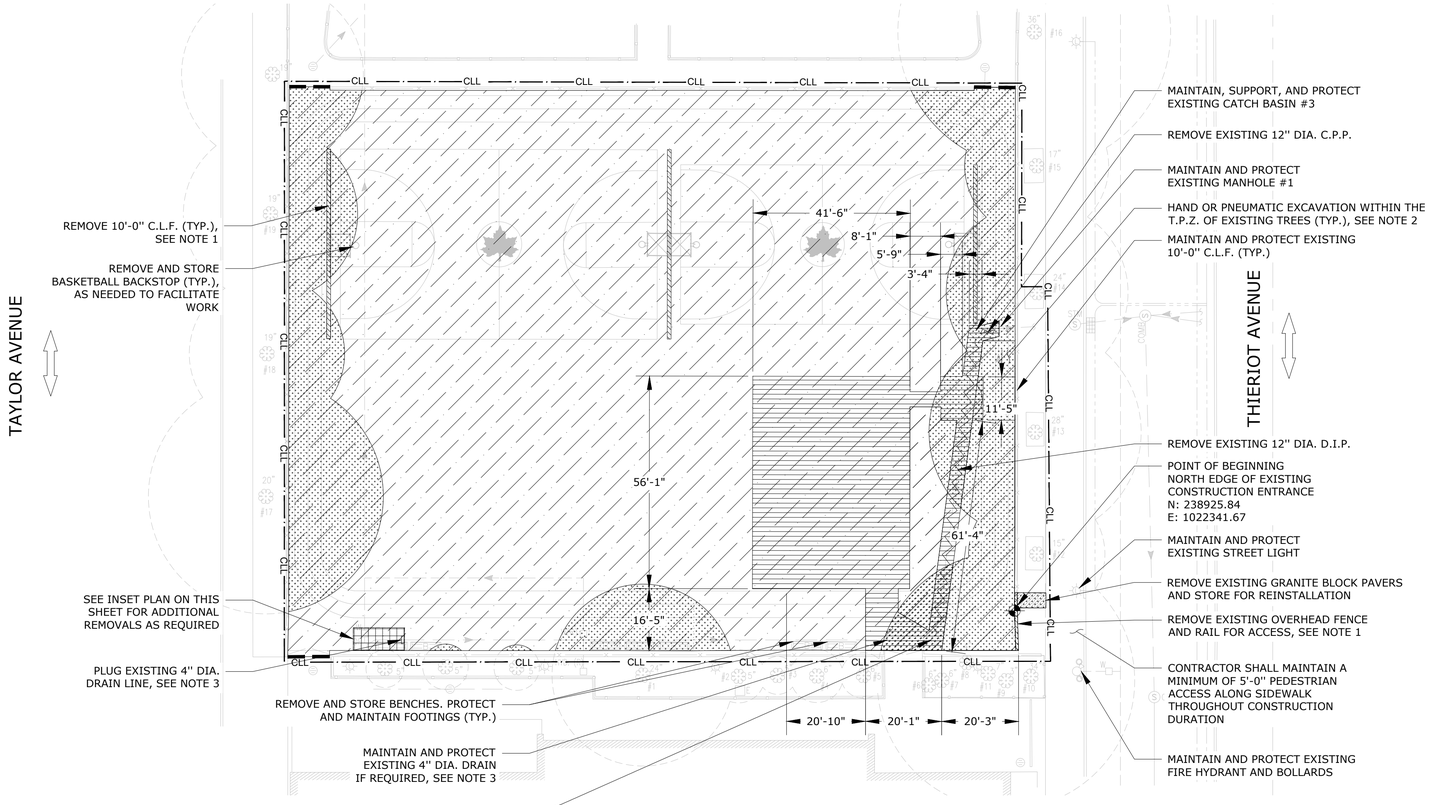
PROJECT TITLE
GREEN INFRASTRUCTURE RETROFIT OF STORY PLAYGROUND
EAST RIVER CSO TRIBUTARY AREA
STORY AVENUE BETWEEN TAYLOR AVENUE AND THIERIOT AVENUE

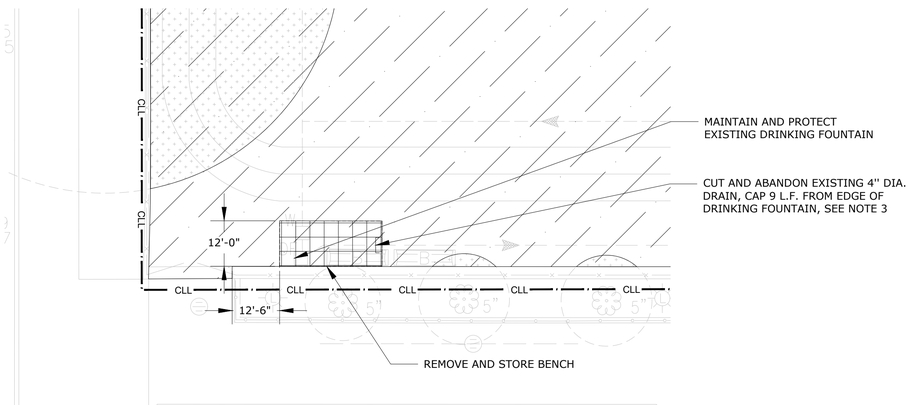
DRAWING TITLE
TREE PROTECTION, STAGING, AND ACCESS PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
J. GUERRERO	J. GUERRERO	M. BRODERICK

B-SCAN

SCALE: 1" = 20'
DATE: JUNE 2026
DRAWING NO.: C100
CONTRACT NO.: GX-P-STOR
SHEET No. 3 OF 9 SHEETS





NOTE: CONTRACTOR SHALL VERIFY IF THIS WORK IS REQUIRED PER NOTE 4 ON C200.

INSET REMOVALS / DEMOLITION PLAN (AS REQUIRED)

SCALE: 1"=10'

NOTES

1. REMOVE, STORE, AND MAINTAIN ALL CHAIN LINK FENCE COMPONENTS. REMOVE THE MINIMUM EXTENT OF FENCING AS NECESSARY TO ALLOW ACCESS. CONTRACTOR SHALL STORE ALL MATERIAL OFF-SITE.
2. ALL EXCAVATION WITHIN THE T.P.Z. SHALL BE PERFORMED BY HAND OR PNEUMATICALLY, WITH MINIMUM SOIL DISTURBANCE, AND UNDER THE SUPERVISION OF THE DIRECTOR OF LANDSCAPE CONSTRUCTION OR THEIR AUTHORIZED REPRESENTATIVE.
3. 4" DIA. DRAIN SHALL BE ABANDONED TO FACILITATE THE INSTALLATION OF 3'x3'x3' DRYWELL. 4" DIA. DRAIN SHALL BE PLUGGED WITH CONCRETE FOR A MINIMUM OF 12". IF 4" DIA. DRAIN IS NOT IN CONFLICT WITH PROPOSED OVERFLOW CONNECTION, THE EXCAVATION SHALL BE REVISED TO INCLUDE ONLY FULL DEPTH ASPHALT REMOVAL.

LEGEND

- EXCAVATION - FULL DEPTH SUBSURFACE RETENTION PRACTICE
- EXCAVATION - FULL DEPTH ASPHALT REMOVAL
- CONCRETE CURB/FENCE REMOVAL
- GRANITE BLOCK PAVER REMOVAL
- EXCAVATION - AS REQUIRED FOR DRYWELL INSTALLATION
- HAND EXCAVATION (VERIFY LIMITS IN FIELD BASED ON CONFIRMED T.P.Z.)
- CAP EXISTING PIPE, SEE NOTE 3
- SAWCUT PAVEMENT
- PIPE REMOVAL
- POINT OF BEGINNING

20 10 0 20'
1"=20'

NO.	DATE	ISSUED FOR	BY

BLOCK 3641
LOT 1

SEAL: STATE OF NEW YORK · MICHAEL DAVID BRAUN · 101288 · LICENSED PROFESSIONAL ENGINEER

HDR

NYC Environmental Protection

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

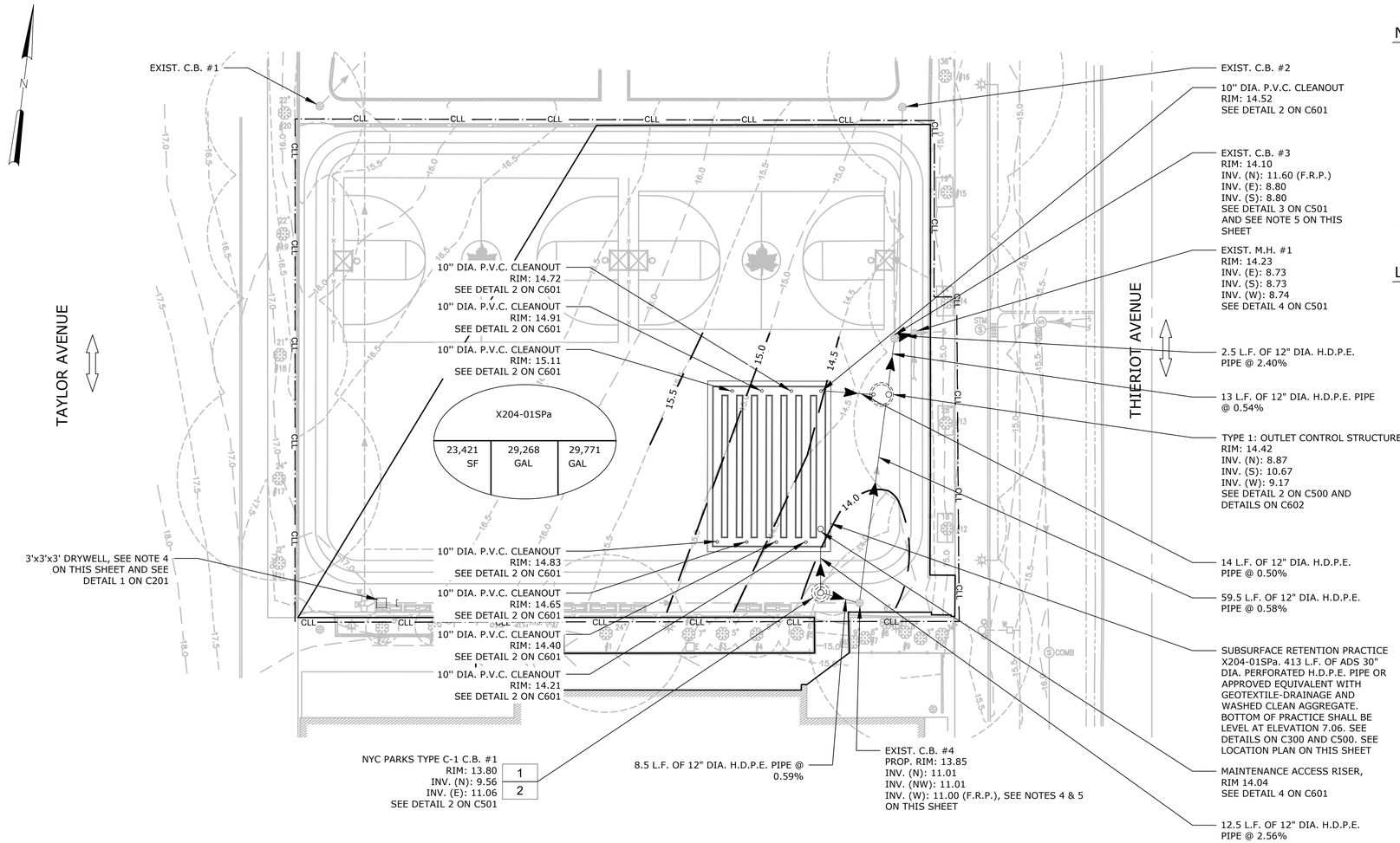
NYC Parks

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

PROJECT TITLE
GREEN INFRASTRUCTURE RETROFIT OF STORY PLAYGROUND
EAST RIVER CSO TRIBUTARY AREA
STORY AVENUE BETWEEN TAYLOR AVENUE AND THIERIOT AVENUE

DRAWING TITLE
REMOVAL / DEMOLITION PLAN

DESIGNED BY	DRAWN BY		CHECKED BY
M. BRAUN	S. RANA		M. BRODERICK
B-SCAN	SCALE: 1" = 20'	DRAWING NO.: C101	CONTRACT NO.: GX-P-STOR
	DATE: JUNE 2026		SHEET No. 4 OF 9 SHEETS



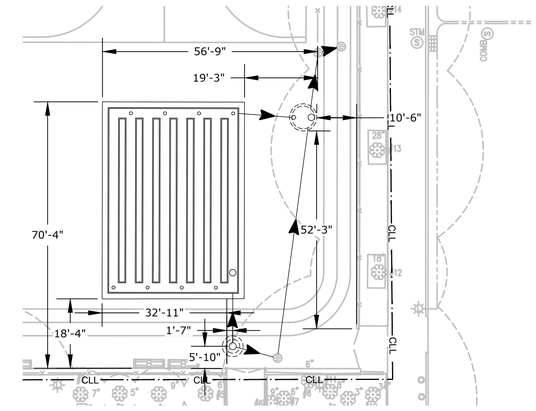
NOTES

1. SEE C300 FOR PROFILE OF DRAINAGE SYSTEM.
2. IF PONDING AREAS ARE ENCOUNTERED, CONTRACTOR TO ADJUST GRADING MINIMALLY TO PROVIDE POSITIVE DRAINAGE WHILE MAINTAINING EXISTING ELEVATIONS OF ALL FIXED STRUCTURES AND ELEVATIONS AT PERIMETER FENCELINE.
3. CONTRACTOR TO ADJUST RIM ELEVATIONS OF EXISTING CATCH BASINS #3 AND #4 AND EXISTING MANHOLE #1 AND GRADE AS NECESSARY TO PROMOTE POSITIVE DRAINAGE TO NYC PARKS TYPE C-1 CATCH BASIN #1.
4. CONTRACTOR SHALL VERIFY 4'' DIA. DRAIN LINE INVERT ELEVATION. IF THE DRAIN LINE IS BELOW THE INVERT OF THE OUTFLOW PIPE ELEVATION OF EXIST. C.B. #4, OR THERE IS INTERFERENCE WITH THE NEW INFLOW PIPE FROM NYC PARKS TYPE C-1 CATCH BASIN #1, THE CONTRACTOR SHALL CUT AND CAP THE DRAIN LINE AND INSTALL A 3'x3'x3' DRYWELL, SEE INSET PLANS ON C101 AND C201. BASED ON RECORD DRAWINGS, PLUG VALVE IS INSTALLED ON EXISTING WATER MAIN ENTERING DRINKING FOUNTAIN. CONTRACTOR TO VERIFY IF PLUG VALVE IS INSTALLED AND REPLACE IF NECESSARY.
5. CONTRACTOR SHALL VERIFY ELEVATION OF ALL INVERTS BEFORE PROCEEDING WITH PROPOSED WORK.

LEGEND

- GREEN INFRASTRUCTURE PRACTICE DRAINAGE AREA
- MAINTENANCE ACCESS RISER
- CLEANOUT
- DRAINAGE PIPE
- OUTLET CONTROL STRUCTURE
- NYC PARKS TYPE C-1 CATCH BASIN
- DRYWELL
- CAP

GREEN INFRASTRUCTURE TYPE		
TRIBUTARY AREA	CAPACITY OF 2.0" EVENT CAPTURE	TOTAL CAPACITY OF GI



ABOVE DIMENSIONS SHOWN FROM EDGE OF PRACTICE TO INSIDE FACE OF EXISTING PERIMETER CURB

GREEN INFRASTRUCTURE LOCATION PLAN

GI ID	GI Asset Data					Stormwater Storage Calculations				Total Stormwater Managed (Infiltration + Storage)				
							Stone Subbase							
	Managed Impervious Tributary Area	Volume 2 in. Rainfall on Impervious Area	GI Footprint Surface Area	GI Perimeter	Permeability Coefficient	Subsurface 30 in. Dia. Perforated Stormwater Pipes (4.91 CF/LF)	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
X204-01SPa	23475	3912.5	1950	179	0.50	2027.8	4.00	40	1952.0	888.7	3979.8	102%	4868.5	36416.4

1"=20' (20 10 0 20')

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PARKS & RECREATION
Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

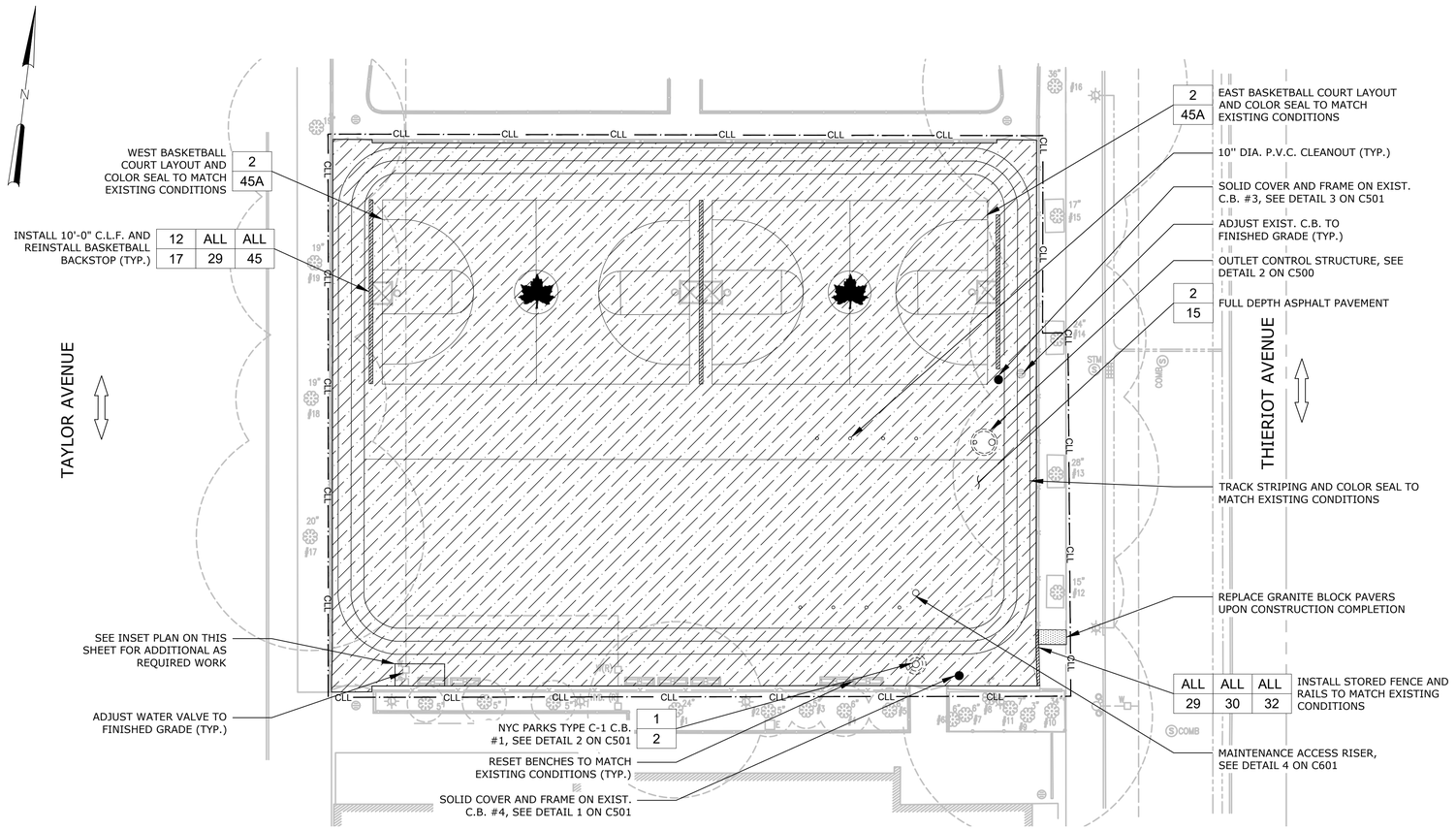
SEAL: STATE OF NEW YORK · MICHAEL DAVID BRAUN · 101288 · LICENSED PROFESSIONAL ENGINEER · HDR

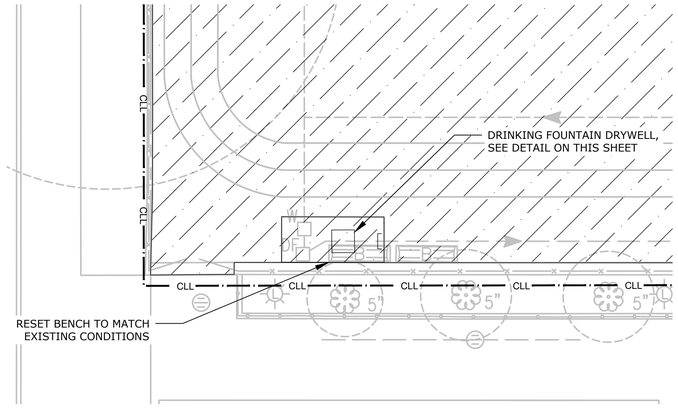
BLOCK 3641
LOT 1

PROJECT TITLE
GREEN INFRASTRUCTURE RETROFIT OF STORY PLAYGROUND
EAST RIVER CSO TRIBUTARY AREA
STORY AVENUE BETWEEN TAYLOR AVENUE AND THIERIOT AVENUE

DRAWING TITLE
PROPOSED GREEN INFRASTRUCTURE LAYOUT PLAN

DESIGNED BY	DRAWN BY		CHECKED BY
M. BRAUN	S. RANA		M. BRODERICK
B-SCAN	SCALE 1" = 20'	DRAWING NO. C200	CONTRACT NO. GX-P-STOR
	DATE JUNE 2026		SHEET No. 5 OF 9 SHEETS





NOTE: CONTRACTOR SHALL VERIFY IF THIS WORK IS REQUIRED PER NOTE 4 ON C200.

INSET MATERIALS PLAN (AS REQUIRED)

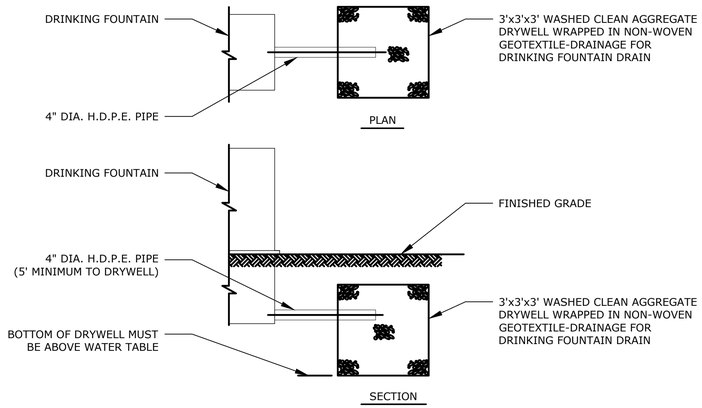
SCALE: 1"=10'

NOTES

1. CONTRACTOR SHALL STOCKPILE ALL CHAIN LINK FENCE COMPONENTS TO BE REMOVED TO FACILITATE CONSTRUCTION. LOST OR DAMAGED COMPONENTS SHALL BE REPLACED TO NYC PARKS STANDARDS AT NO ADDITIONAL COST TO THE AGENCY.
2. SEE C200 FOR ELEVATIONS OF DRAINAGE STRUCTURES.

LEGEND

- FULL DEPTH ASPHALT PAVEMENT
- GRANITE BLOCK PAVER REPLACEMENT
- FENCE REPLACEMENT
- CLEANOUT
- MAINTENANCE ACCESS RISER
- OUTLET CONTROL STRUCTURE
- SOLID COVER AND FRAME
- NYC PARKS TYPE C-1 CATCH BASIN



1 DRAINAGE LAYOUT FOR DRINKING FOUNTAIN TO 3'x3'x3' DRYWELL

NOT TO SCALE

20 10 0 20'

1"=20'

NO.	DATE	ISSUED FOR	BY

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

SEAL: STATE OF NEW YORK · MICHAEL DAVID BRAUN · 101288 · LICENSED PROFESSIONAL ENGINEER

HDR

BLOCK 3641

LOT 1

PROJECT TITLE
GREEN INFRASTRUCTURE RETROFIT OF STORY PLAYGROUND
EAST RIVER CSO TRIBUTARY AREA
STORY AVENUE BETWEEN TAYLOR AVENUE AND THIERIOT AVENUE

DRAWING TITLE
MATERIALS PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
M. BRAUN	S. RANA	M. BRODERICK

B-SCAN

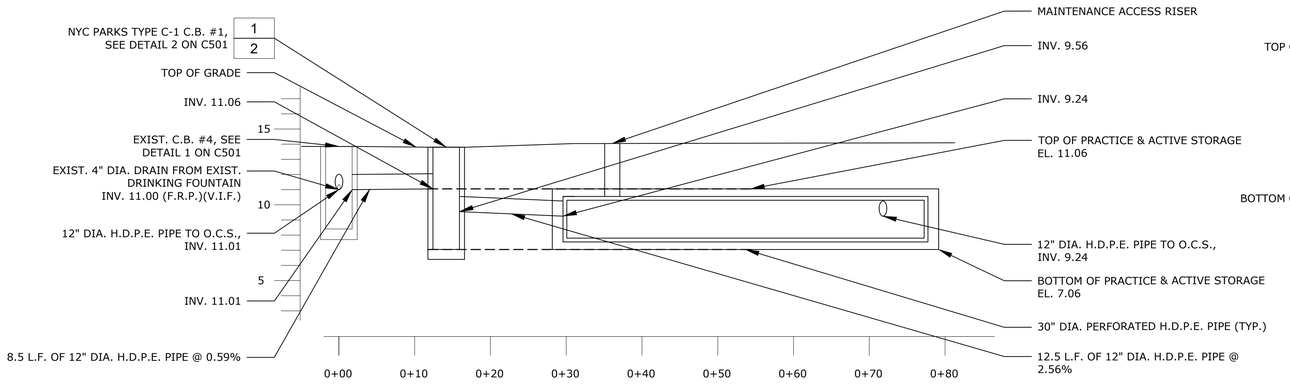
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DRAWING NO.: C201

DATE: JUNE 2026

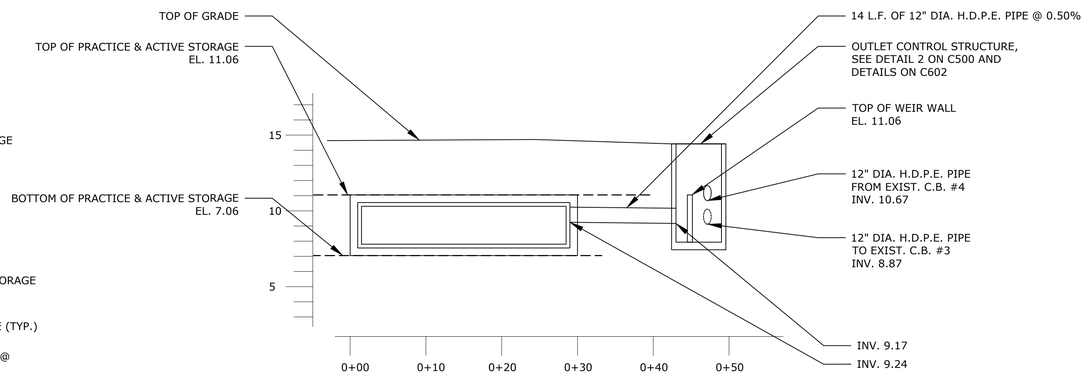
CONTRACT NO.: GX-P-STOR

SHEET No. 6 OF 9 SHEETS



1 NYC PARKS TYPE C-1 CATCH BASIN #1 TO PRACTICE X204-01SPa AND EXISTING CATCH BASIN #4

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 10'



2 ALONG PRACTICE X204-01SPa TO TYPE 1: OUTLET CONTROL STRUCTURE

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 10'

3 EXISTING CATCH BASIN #4 TO TYPE 1: OUTLET CONTROL STRUCTURE AND EXISTING CATCH BASIN #3

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 10'

4 SECTION - SUBSURFACE RETENTION PRACTICE

NOT TO SCALE

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PARKS & RECREATION
Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

SEAL
STATE OF NEW YORK
MICHAEL DAVID BRAUN
101288
LICENSED PROFESSIONAL ENGINEER
HDR

BLOCK 3641
LOT 1

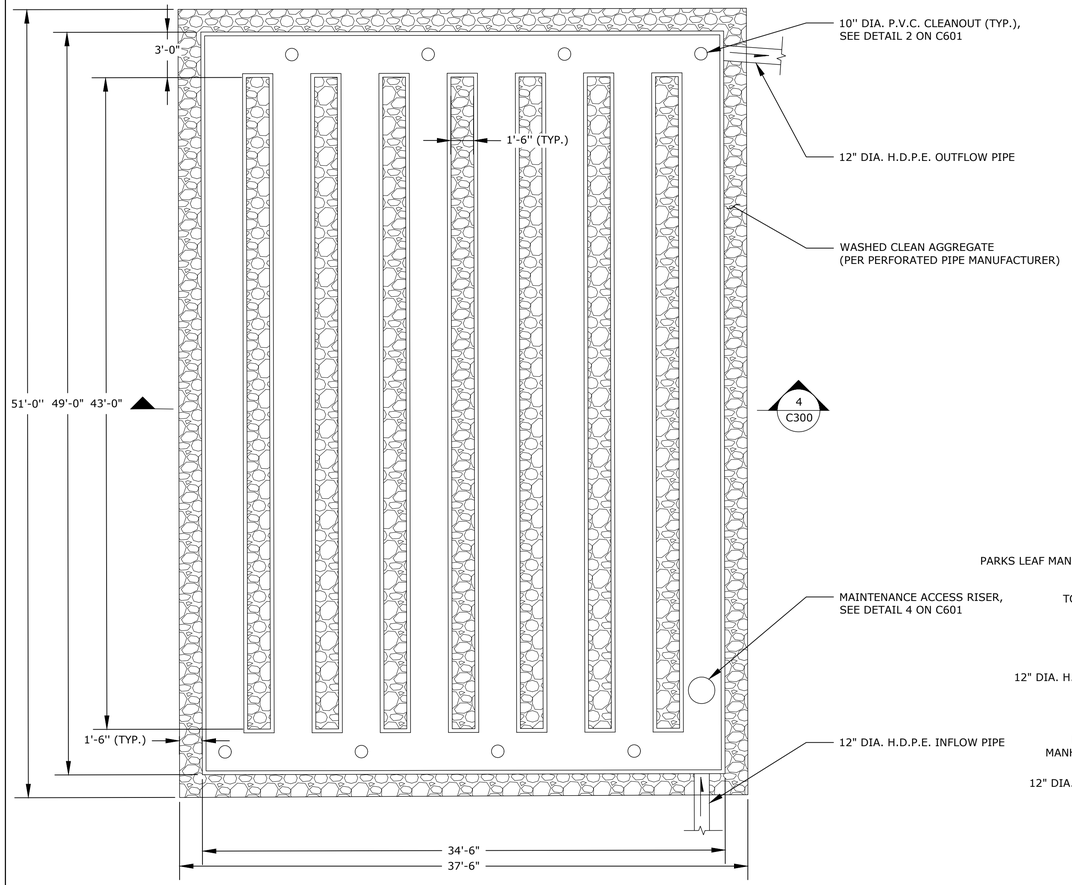
PROJECT TITLE
GREEN INFRASTRUCTURE RETROFIT OF STORY PLAYGROUND
EAST RIVER CSO TRIBUTARY AREA
STORY AVENUE BETWEEN TAYLOR AVENUE AND THIERIOT AVENUE

DRAWING TITLE
SECTIONS AND PROFILES

DESIGNED BY	DRAWN BY	CHECKED BY
M. BRAUN	M. BRAUN	M. BRODERICK

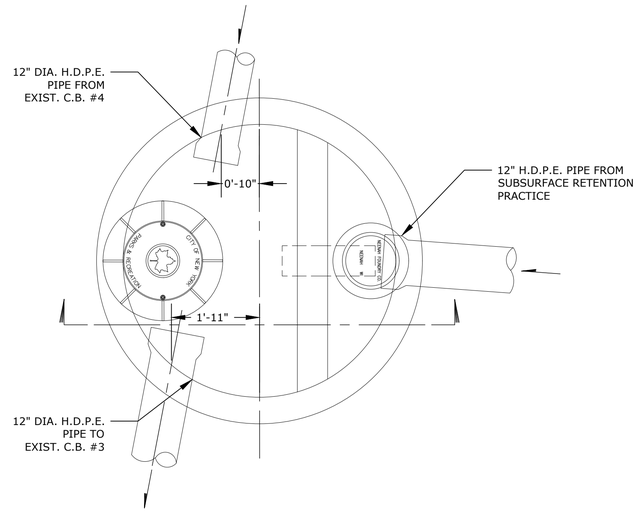
B-SCAN

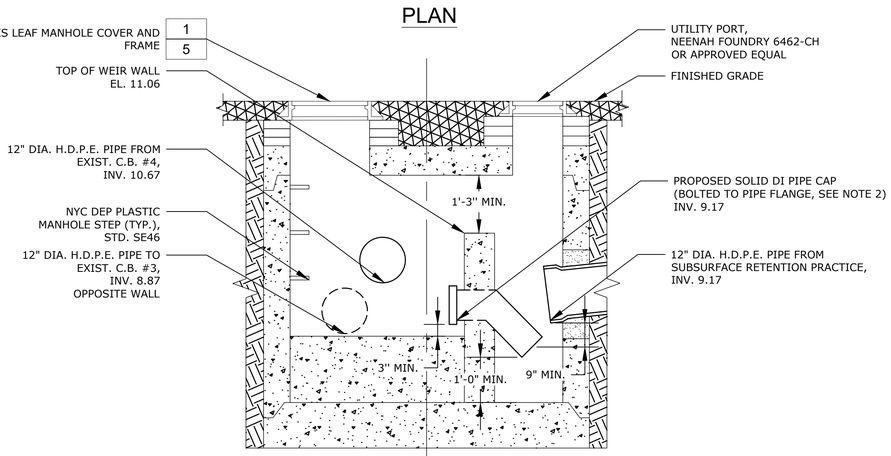
SCALE: VARIES
DRAWING NO.: C300
DATE: JUNE 2026
CONTRACT NO.: GX-P-STOR
SHEET No. 7 OF 9 SHEETS



1 SUBSURFACE RETENTION PRACTICE - LAYOUT

1"=5' 5 2.5 0 5'





NOTES:
1. SEE C602 FOR OUTLET CONTROL STRUCTURE REINFORCEMENT DETAILS.
2. BOLTS SHALL BE INSTALLED SO THAT THE BOLT HEAD IS ON THE WEIR WALL SIDE.

2 TYPE 1: OUTLET CONTROL STRUCTURE

NOT TO SCALE

NYC Environmental Protection

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

NYC Parks

CITY OF NEW YORK
PARKS & RECREATION
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NO.	DATE	ISSUED FOR	BY

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STATE OF NEW YORK · MICHAEL DAVID BRAUN · LICENSED PROFESSIONAL ENGINEER · 101288
HDR

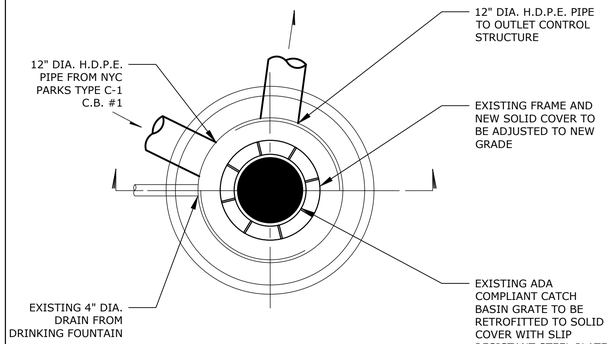
BLOCK 3641
LOT 1

PROJECT TITLE
GREEN INFRASTRUCTURE RETROFIT OF STORY PLAYGROUND
EAST RIVER CSO TRIBUTARY AREA
STORY AVENUE BETWEEN TAYLOR AVENUE AND THIERIOT AVENUE

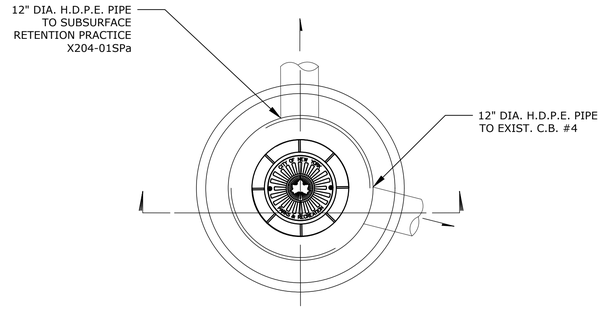
DRAWING TITLE
DETAILS - 1

DESIGNED BY	DRAWN BY	CHECKED BY
M. BRAUN	M. BRAUN	M. BRODERICK

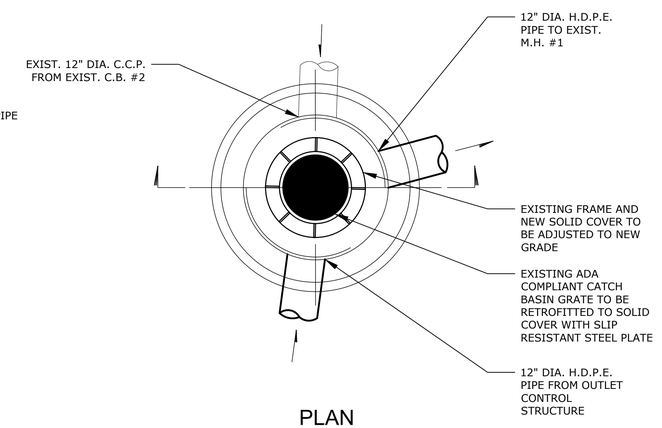
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	VARIES	C500	GX-P-STOR
	DATE: JUNE 2026		SHEET No. 8 OF 9 SHEETS



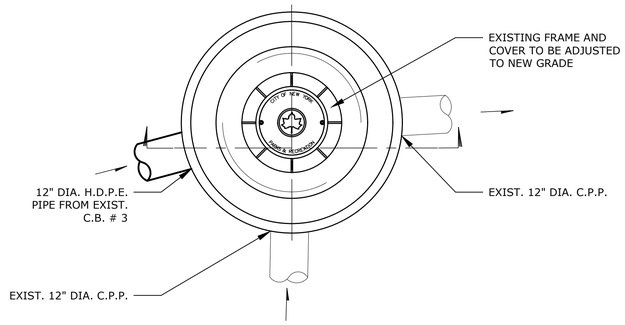
PLAN



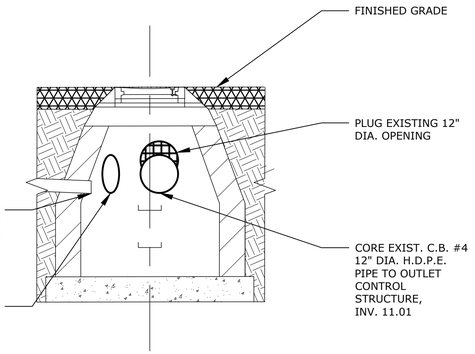
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PLAN



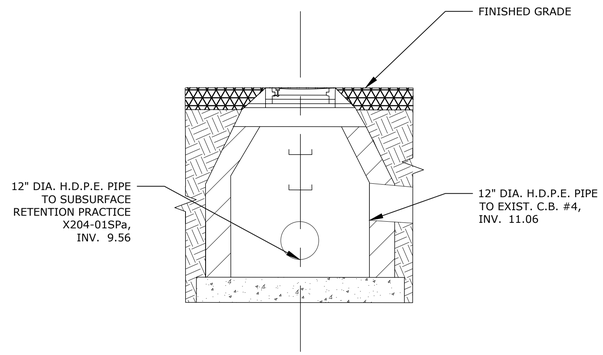
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SECTION

NOTES:
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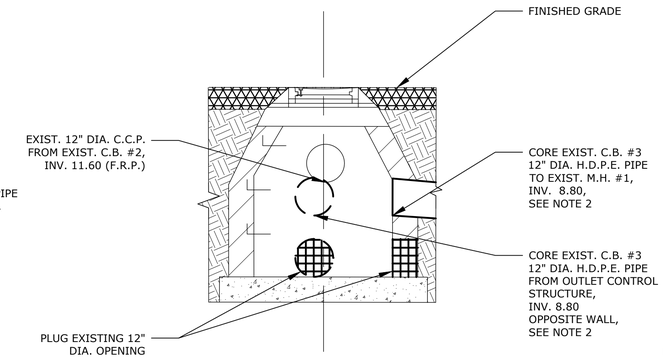
1 EXISTING CATCH BASIN #4
NOT TO SCALE



SECTION

NOTES:
1. SEE DETAIL 1 ON NYC PARKS STANDARD DETAIL SHEET 2 FOR DRAINAGE STRUCTURE DIMENSIONS.

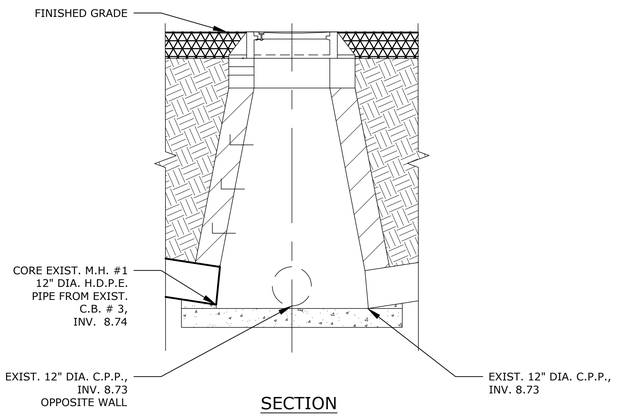
2 NYC PARKS TYPE C-1 CATCH BASIN #1
NOT TO SCALE



SECTION

NOTES:
1. NYC PARKS STANDARD DETAIL SHEET 2 PROVIDED FOR REFERENCE ONLY.
2. CONTRACTOR SHALL PLUG EXISTING ABANDONED CONNECTIONS, AS NEEDED.

3 EXISTING CATCH BASIN #3
NOT TO SCALE



SECTION

NOTES:
1. NYC PARKS STANDARD DETAIL SHEET 2 PROVIDED FOR REFERENCE ONLY.

4 EXISTING MANHOLE #1
NOT TO SCALE

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NO.	DATE	ISSUED FOR	BY

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STATE OF NEW YORK · MICHAEL DAVID BRAUN · 101288 · LICENSED PROFESSIONAL ENGINEER

FDR

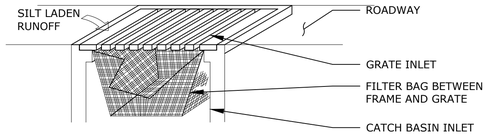
BLOCK 3641
LOT 1

PROJECT TITLE
GREEN INFRASTRUCTURE RETROFIT OF STORY PLAYGROUND
EAST RIVER CSO TRIBUTARY AREA
STORY AVENUE BETWEEN TAYLOR AVENUE AND THIERIOT AVENUE

DRAWING TITLE
DETAILS - 2

DESIGNED BY	DRAWN BY	CHECKED BY
M. BRAUN	M. BRAUN	M. BRODERICK

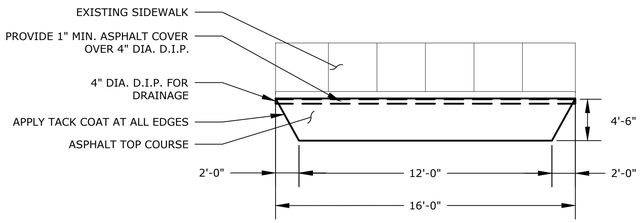
B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	VARIES	C501	GX-P-STOR
	DATE: JUNE 2026		SHEET No. 9 OF 9 SHEETS



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.

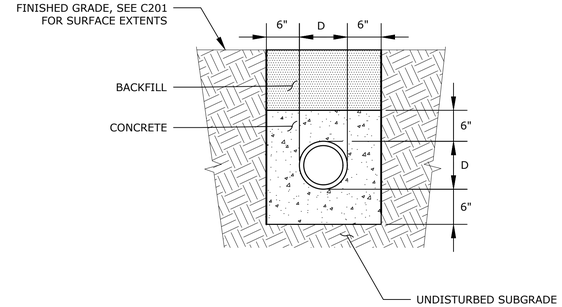
MAINTENANCE REQUIREMENTS:
1. INSPECT GRATE AND BAG ON A WEEKLY BASIS AND AFTER EACH RAINFALL EVENT PRODUCING ½ INCH OR MORE OR RAIN. ANY DEBRIS OR SEDIMENT VISIBLE SHALL BE REMOVED IMMEDIATELY.
2. DAMAGE TO THE BAG SHALL BE REPAIRED IMMEDIATELY.
3. WHEN THE RESTRAINT CORD IS NO LONGER VISIBLE, THE BAG 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
NOT TO SCALE



TEMPORARY ASPHALT RAMP NOTE:
1. UPON COMPLETION OF CONSTRUCTION, DAMAGED SIDEWALK FLAGS, CURBS AND/OR ROADWAY SHALL BE REPLACED IN KIND.

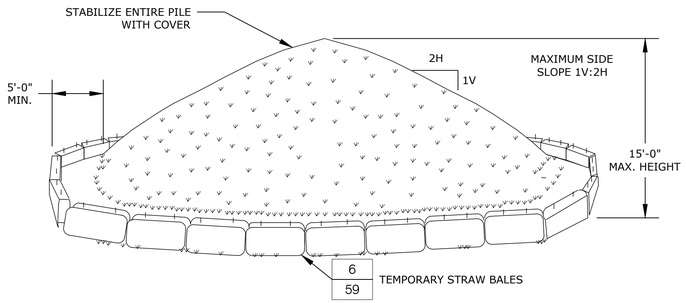
2 TEMPORARY ASPHALT RAMP
NOT TO SCALE



D = OUTSIDE DIAMETER OF PIPE

NOTES:
1. APPLIES TO CATCH BASIN CHUTE CONNECTIONS WITH LESS THAN 4FT COVER FROM FINAL GRADE TO OUTER TOP OF THE PIPE.

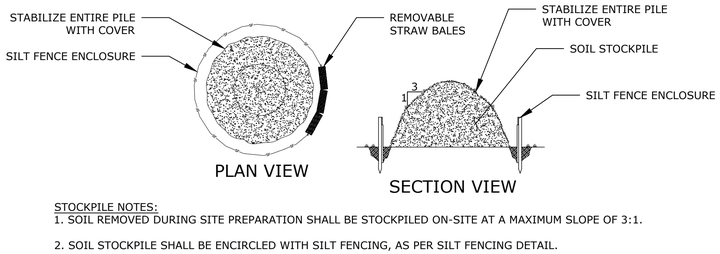
3 CONCRETE ENCASEMENT DETAIL
NOT TO SCALE



STOCKPILE NOTES:
1. THE GROUND SURFACE WHERE SOIL WILL BE STOCKPILED SHALL BE COVERED WITH A MINIMUM OF .25MM OR 2 LAYERS OF .15 MM H.D.P.E. BARRIER, OR AN EQUIVALENT MATERIAL. IN ADDITION, PRIOR TO THE END OF EACH WORK DAY, STOCKPILES SHALL BE COMPLETELY COVERED WITH THE H.D.P.E. BARRIER. STOCKPILE COVERS SHALL BE WEIGHTED OR SECURED BY APPROPRIATE MEANS. ALL SEAMS SHALL BE OVERLAPPED AND SEALED TO PREVENT THE LEACHING OF CONTAMINANTS. DAMAGED COVERS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR WITHIN 24 HOURS AFTER NOTIFICATION.

2. SEE TREE PROTECTION, STAGING, AND ACCESS PLAN FOR SUGGESTED STAGING AREA.

4 STOCKPILE ON PAVEMENT
NOT TO SCALE



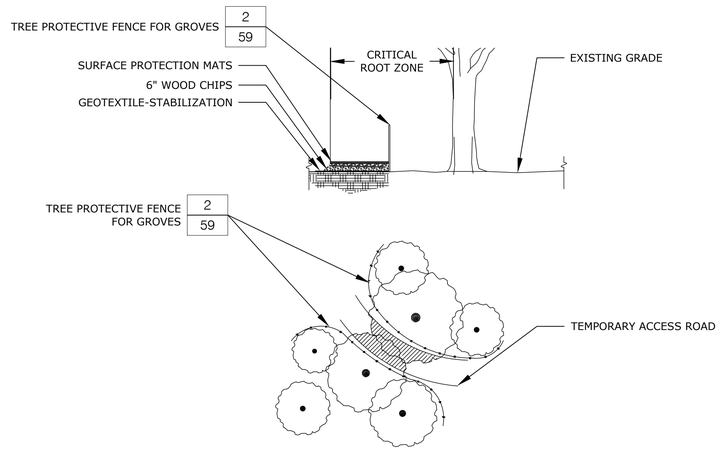
STOCKPILE NOTES:
1. SOIL REMOVED DURING SITE PREPARATION SHALL BE STOCKPILED ON-SITE AT A MAXIMUM SLOPE OF 3:1.

2. SOIL STOCKPILE SHALL BE ENCIRCLED WITH SILT FENCING, AS PER SILT FENCING DETAIL.

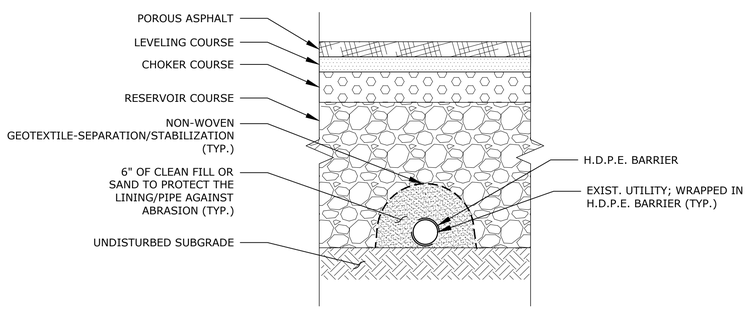
3. THE GROUND SURFACE WHERE SOIL WILL BE STOCKPILE SHALL BE COVERED WITH A MINIMUM OF .25MM OR 2 LAYERS OF .15 MM H.D.P.E. BARRIER, OR AN EQUIVALENT MATERIAL. IN ADDITION, PRIOR TO THE END OF EACH WORK DAY, STOCKPILES SHALL BE COMPLETELY COVERED WITH THE H.D.P.E. BARRIER. STOCKPILE COVERS SHALL BE WEIGHTED OR SECURED BY APPROPRIATE MEANS. ALL SEAM SHALL BE OVERLAPPED AND SEALED TO PREVENT THE LEACHING OF CONTAMINANTS. DAMAGED COVERS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR WITHIN 24 HOURS AFTER NOTIFICATION.

4. SEE TREE PROTECTION, STAGING, AND ACCESS PLAN FOR SUGGESTED STAGING AREA.

5 STOCKPILE ON GRASS
NOT TO SCALE



6 SURFACE PROTECTION
NOT TO SCALE



7 UTILITY PROTECTION
NOT TO SCALE

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

NYC Parks
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PARKS & RECREATION
Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

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STATE OF NEW YORK · MICHAEL DAVID BRAUN · LICENSED PROFESSIONAL ENGINEER · 101288
HDR

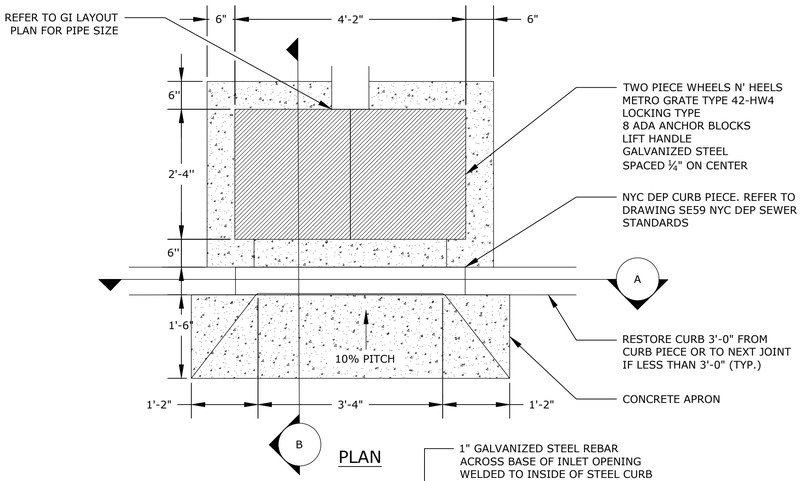
BLOCK
LOT

PROJECT TITLE
GREEN INFRASTRUCTURE RETROFIT OF MULTIPLE SITES

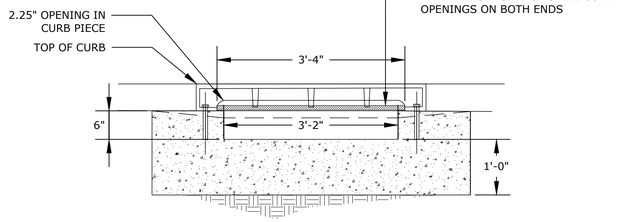
DRAWING TITLE
SITE DETAILS - 1

DESIGNED BY	DRAWN BY	CHECKED BY
S. RANA	S. RANA	M. BRODERICK

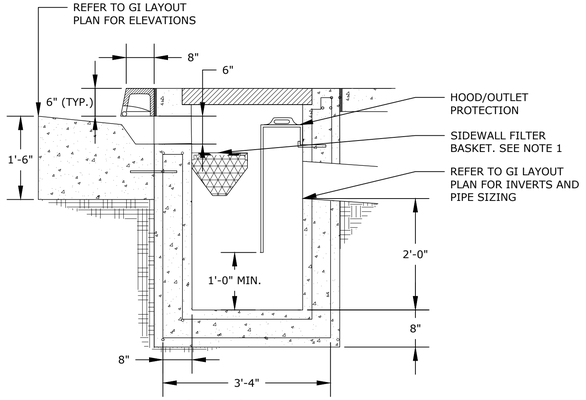
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	N.T.S.	C600	
	DATE		SHEET No. 1 OF 3 SHEETS



PLAN



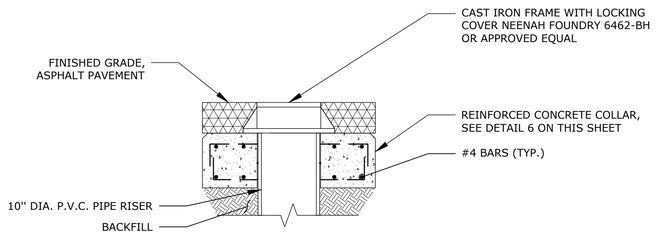
SECTION - A



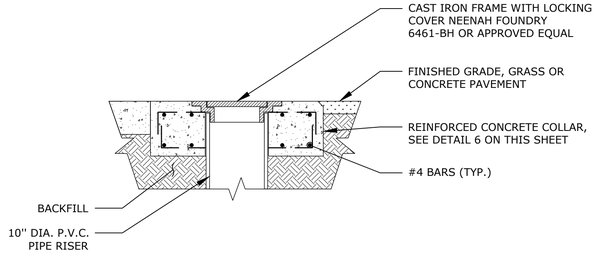
SECTION - B

NOTES:
1. ATTACH SIDEWALL FILTER 2" BELOW OPENING WITH BOLTS, OR PER MANUFACTURER INSTRUCTIONS.

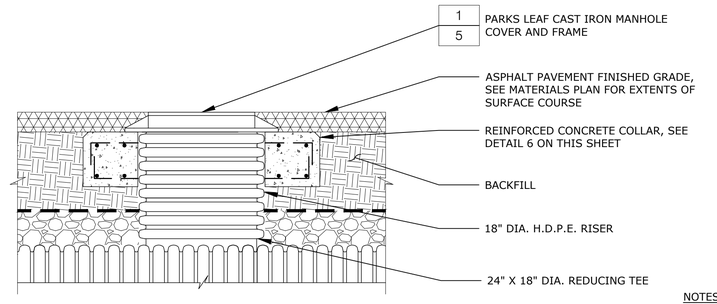
1 MODIFIED CURB INLET TYPE A
NOT TO SCALE



2 10" DIA. P.V.C. CLEANOUT WITH CONCRETE COLLAR BELOW GRADE
NOT TO SCALE

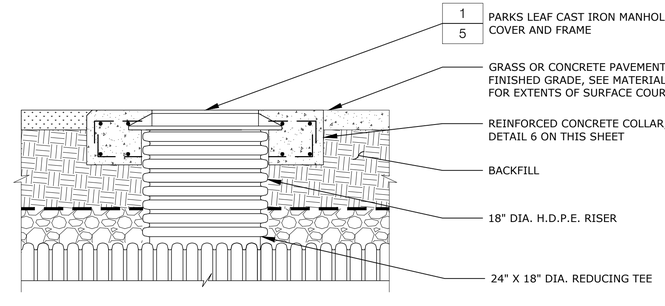


3 10" DIA. P.V.C. CLEANOUT WITH CONCRETE COLLAR AT GRADE
NOT TO SCALE



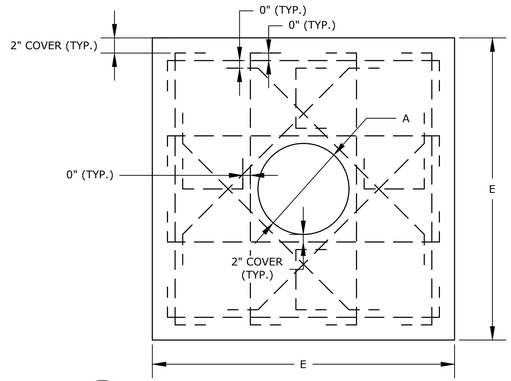
NOTES
CONCRETE COLLAR SHALL BE CONSTRUCTED SUCH THAT THE LIVE LOAD IS TRANSMITTED TO THE SURROUNDING SOIL AND NOT DIRECTLY TO THE RISER BASED ON ANTICIPATED LOADING.

4 MAINTENANCE ACCESS RISER WITH CONCRETE COLLAR BELOW GRADE
NOT TO SCALE

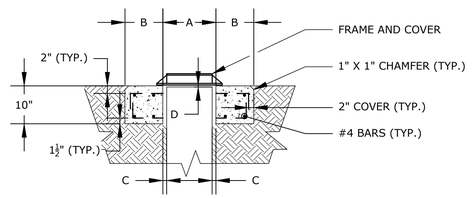


NOTES
CONCRETE COLLAR SHALL BE CONSTRUCTED SUCH THAT THE LIVE LOAD IS TRANSMITTED TO THE SURROUNDING SOIL AND NOT DIRECTLY TO THE RISER BASED ON ANTICIPATED LOADING.

5 MAINTENANCE ACCESS RISER WITH CONCRETE COLLAR AT GRADE
NOT TO SCALE



6 CONCRETE COLLAR REINFORCEMENT DETAIL
NOT TO SCALE



	DIMENSION				
CLEANOUT / RISER DIA.	A	B	C	D	E
18"	1'-11"	10"	1"	½"	3'-7"
10"	11"	10"	⅛"	0"	2'-7"

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101288

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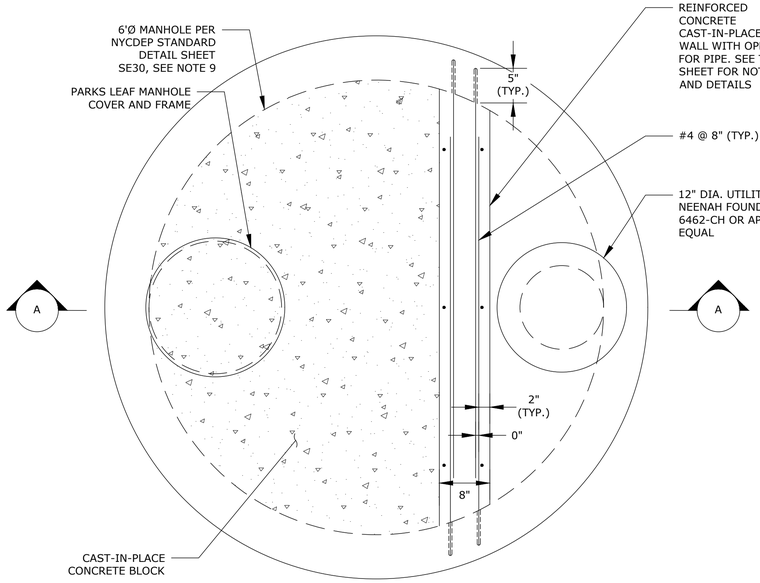
BLOCK
LOT

PROJECT TITLE
GREEN INFRASTRUCTURE RETROFIT OF MULTIPLE SITES

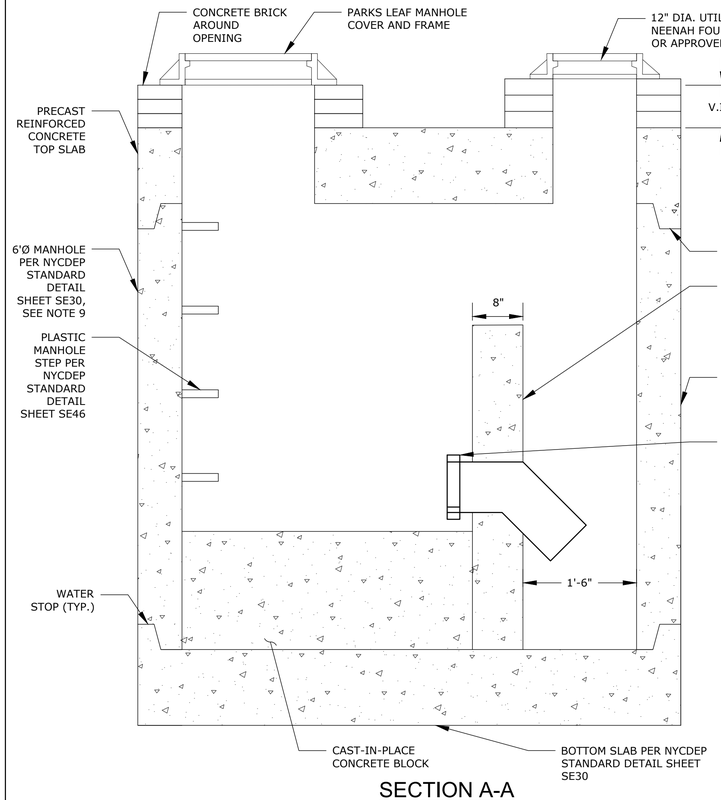
DRAWING TITLE
SITE DETAILS - 2

DESIGNED BY	DRAWN BY	CHECKED BY
S. RANA	S. RANA	M. BRODERICK

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	N.T.S.	C601	
	DATE		SHEET No. 2 OF 3 SHEETS



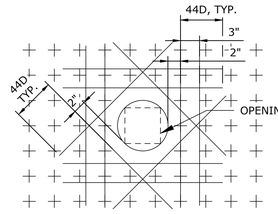
PLAN



SECTION A-A

1 OUTLET CONTROL STRUCTURE DETAIL

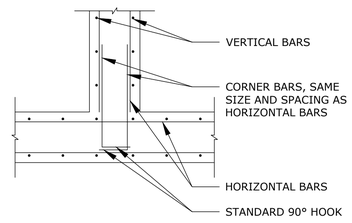
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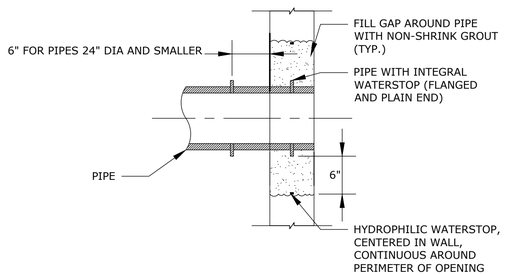
NOTES:

1. THIS DETAIL APPLIES TO OPENINGS 8"Ø AND LARGER. FOR SMALLER OPENINGS, BEND BARS OR ADJUST SPACING OF REINFORCEMENT TO CLEAR OPENING.
2. PLACE ADDITIONAL BARS OF THE SAME SIZE AT THE INTERRUPTED BARS ON EACH SIDE OF OPENING. QUANTITY OF ADDITIONAL BARS ON EACH SIDE SHALL EQUAL HALF THE QUANTITY OF INTERRUPTED BARS EXCEPT WHERE NOTED OTHERWISE.
3. PROVIDE ONE DIAGONAL BAR ON EACH SIDE OF OPENING OF THE SAME SIZE EQUAL TO MAIN REINFORCEMENT, TYPICAL ON EACH FACE.
4. WHERE INVERT OF OPENING IN WALL IS LESS THAN 44 BAR DIAMETERS FROM TOP OF SLAB, ADDITIONAL REINFORCEMENT ON EACH SIDE SHALL INCLUDE DOWELS EMBEDDED INTO SLAB WITH STANDARD 90 DEGREE HOOKS TO SPLICE WITH ADDITIONAL 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, ADDITIONAL 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.

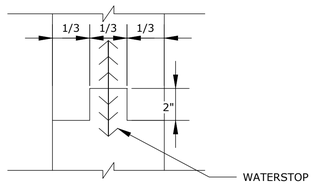
2 TYPICAL REINFORCEMENT AT OPENINGS
N.T.S.



3 INTERSECTION TYPICAL WALL REINFORCING
N.T.S.



4 TYPICAL WALL PIPE
N.T.S.



5 TYPICAL KEYWAY
N.T.S.

NOTES:

1. CUT AND BEND BARS AT ALL OPENINGS AND PENETRATIONS (TYP.).
2. TILT HOOKS AS REQUIRED TO MAINTAIN REQUIRED COVER.
3. PROVIDE STANDARD HOOK AT END OF ALL INTERRUPTED BARS.
4. PROVIDE 1 - #5 ADDITIONAL BAR ON EACH SIDE OF WALL OPENINGS.
5. REFER TO GREEN INFRASTRUCTURE LAYOUT PLAN FOR PIPE DIMENSIONS AND INVERTS.
6. REFER TO GREEN INFRASTRUCTURE LAYOUT PLAN FOR LOCATION OF OUTLET CONTROL STRUCTURE.
7. ALL REINFORCING BARS SHALL BE HOT-DIPPED GALVANIZED GRADE 60.
8. THE CONTRACTOR SHALL PROVIDE AND LOCATE THE LIFTING HOOKS.
9. 6'Ø MANHOLE PER NYCDEP STANDARD DETAIL SHEET SE30 SHALL NOT INCLUDE RISER SECTION.

BASIC DEVELOPMENT LENGTH AND SPLICE LENGTH

FOR UNCOATED BARS IN TENSION

** BASED ON MATERIALS AND CONDITIONS AS FOLLOWS:
fy = 60,000 psi fc' = 5000 psi OR GREATER
CLEAR COVER≥ 1.5 INCHES NORMAL WEIGHT CONCRETE

BASIC DEVELOPMENT LENGTH ℓ_d				BAR SIZE	CLASS B SPLICE LENGTH 1.3 x ℓ_d			
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.

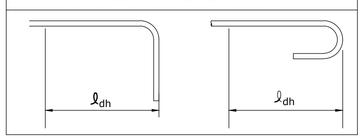
DEVELOPMENT LENGTH OF STANDARD HOOKS

FOR UNCOATED BARS IN TENSION

fy = 60,000 psi fc' = 5000 psi OR GREATER

BAR SIZE	DEVELOPMENT LENGTH, ℓ_{dh}	
	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".



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. 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.
7. 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.
8. STRUCTURAL DRAWINGS SHALL BE USED IN COORDINATION WITH OTHER CONTRACT DRAWINGS AND MANUFACTURER'S SHOP DRAWINGS.
9. 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.
10. 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.
11. 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.
12. 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 45 CONCRETE (5,000 PSI): NORMAL WEIGHT STRUCTURAL CONCRETE USED FOR CONCRETE FILL. 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 4. 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 SUCH ITEMS ARE EMBEDDED IN WALLS OR SLABS, THEY SHALL NOT OCCUPY MORE THAN 1/3 OF THE MEMBER THICKNESS.
15. DRILL IN ADHESIVE DOWELS AND CONCRETE ANCHORS (WHERE DOWELS OR ANCHORS ARE SHOWN TO BE PLACED INTO HARDENED CONCRETE):
   A. THE DRILL 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 MINIMUM EMBEDMENT SHALL BE 12 BAR DIAMETERS, UNLESS NOTED OTHERWISE.
   C. ADJUST THE LOCATION OF THE DOWEL OR ANCHOR 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
MICHAEL DAVID BRAUN
LICENSED PROFESSIONAL ENGINEER
10128B

HDR

BLOCK

LOT

PROJECT TITLE
GREEN INFRASTRUCTURE RETROFIT OF MULTIPLE SITES

DRAWING TITLE
SITE DETAILS - 3

DESIGNED BY	DRAWN BY	CHECKED BY
F. NOORAI	S. KUMAR	J. PARK

B-SCAN

SCALE N.T.S.

DATE

DRAWING NO. C602

CONTRACT NO.

SHEET No. 3 OF 3 SHEETS