LEGEND

LEGAL GRADE	84.8
INTERPOLATED GRADE	84.8 INTP.
EXISTING ELEVATION	50.54 / 50.17
BUILDING	
WALLS	PARTY WALL / INDEPENDENT WALL
FENCE	
GUIDE RAIL	
SEWER	
SEWER (24" or Greater)	24" SEWER
WATER	
WATER (24" or Greater)	24" WATER
GAS	
ELECTRIC	
TELEPHONE/FIRE ALARM/CABLE	
STEAM	
AERIAL UTILITY LINE	A/E,T,C,F = AERIAL/ELEC., TEL., CABLE, FIRE
U.S. PIERHEAD LINE	
U.S. BULKHEAD LINE	
U.S. PIERHEAD & BULKHEAD LINE	
CATCHBASIN	
FIRE HYDRANT	LOW PRESSURE / HIGH PRESSURE
VALVES	W / G / St
HEDGES	HEDGES
TREE & TRUNK DIAMETER	(TREE) / (EVERGREEN) / (SHRUB)
DEPRESSED CURB	DC
TAX LOT NUMBER	1
TAX LOT LINE	
TAX BLOCK LINE	
EASEMENT LINE	
STREET LINE & DIMENSION	400.60'
LOT CROSSES LINE	

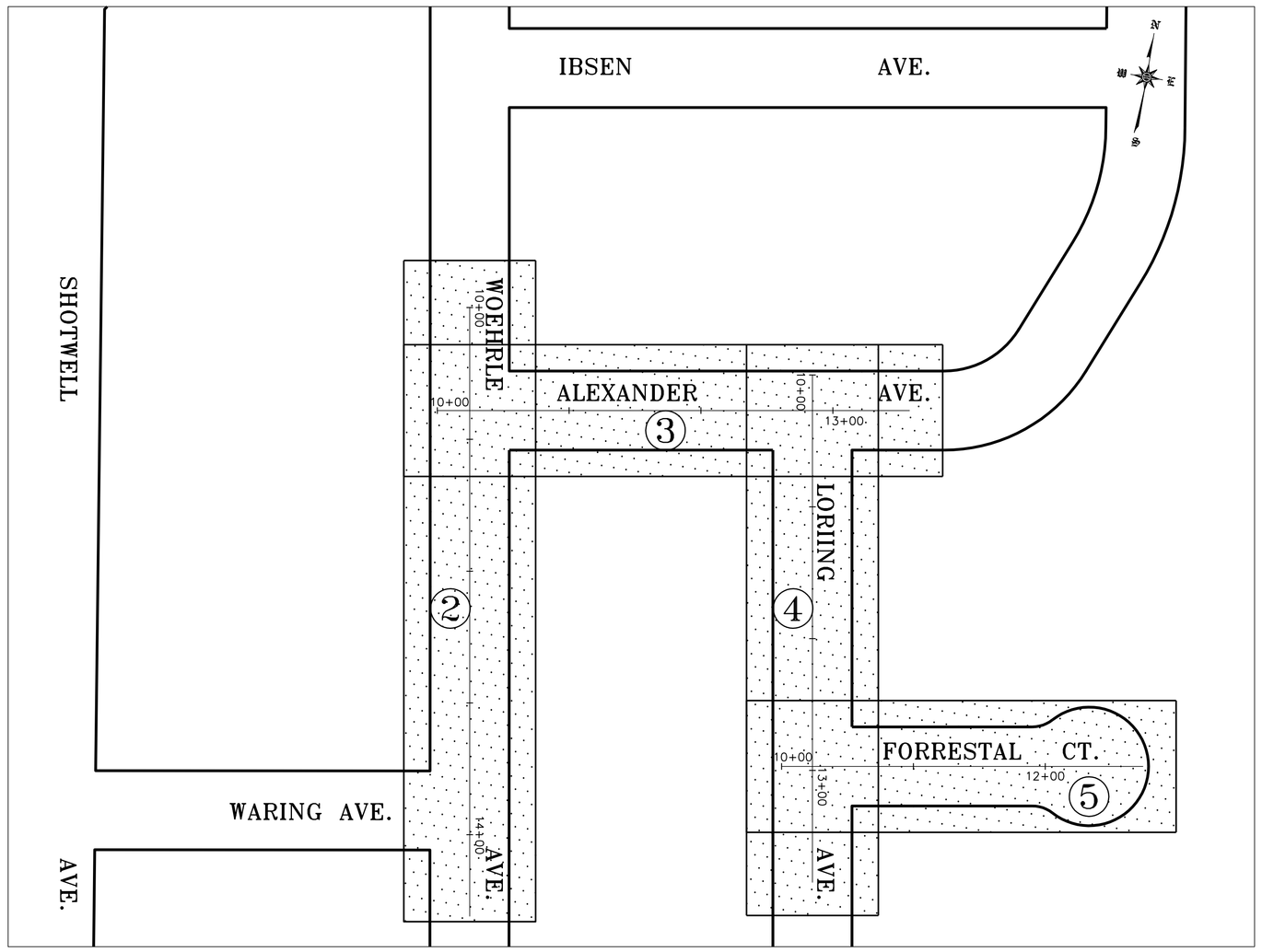
SYMBOLS

MANHOLES

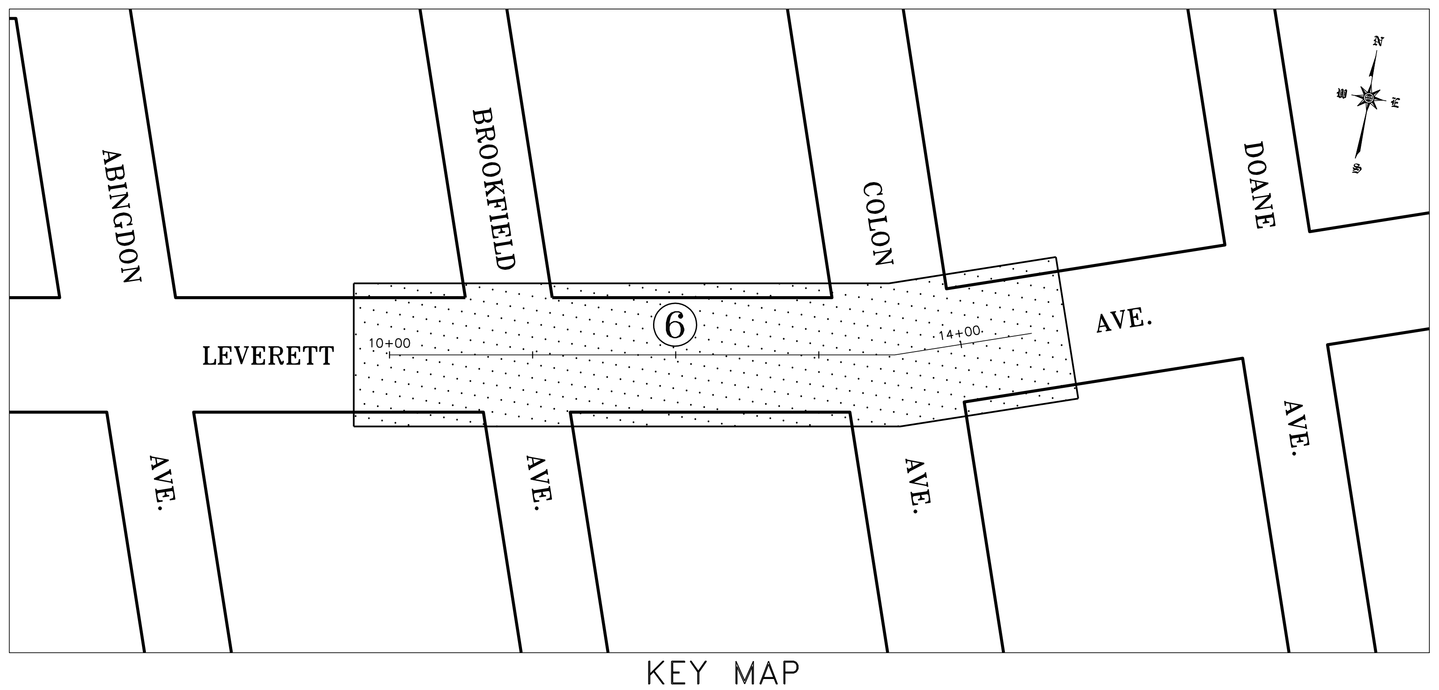
- (S) SEWER
- (E) ELECTRIC
- (St) STEAM
- (Su) SUBWAY
- (MH) MANHOLE (NO ID)
- (S) FROM RECORD MAP
- (W) WATER
- (G) GAS
- (F) N.Y.F.D.
- (T) TELEPHONE
- [E] BECO or CTES
- [C] CABLE TV IRON

- BIKE SHARE
- TS TRAFFIC SIGN
- PARKING METER
- CC COAL CHUTE
- VENT PIPE
- F FIRE ALARM BOX
- TRAFFIC CONTROL BOX
- MAILBOX
- MM MUNI METER
- PAY PHONE
- EB ELECTRIC BOX
- OIL FILL
- MONUMENT
- STANDPIPE
- SPRINKLER
- ROUND DRAIN
- SQUARE DRAIN
- SIGN
- BORING HOLE
- MONITORING WELL
- DIRECTION OF TRAFFIC

- GUY WIRE
- T TRAFFIC SIGNAL
- PS PEDESTRIAN SIGNAL
- TPS TRAFFIC SIGNAL W/PEDESTRIAN SIGNAL
- WOOD UTILITY POLE
- F WOOD UTILITY POLE W/FIRE ALARM BOX
- PS WOOD UTILITY POLE W/PEDESTRIAN SIGNAL
- T WOOD UTILITY POLE W/TRAFFIC SIGNAL
- TPS WOOD UTILITY POLE W/TRAFFIC SIGNAL & PED. SIGNAL
- WOOD UTILITY POLE W/STREET LIGHT
- F WOOD UTILITY POLE W/STREET LIGHT & FIRE ALARM BOX
- PS WOOD UTILITY POLE W/STREET LIGHT & PEDESTRIAN SIGNAL
- T WOOD UTILITY POLE W/STREET LIGHT & TRAFFIC SIGNAL
- TPS WOOD UTILITY POLE W/STREET LIGHT, TRAF. SIGNAL & PED. SIGNAL
- METAL STREET LIGHT
- PS METAL STREET LIGHT W/PEDESTRIAN SIGNAL
- T METAL STREET LIGHT W/TRAFFIC SIGNAL
- TPS METAL STREET LIGHT W/TRAFFIC SIGNAL & PEDESTRIAN SIGNAL



KEY MAP
SHEETS: 2–5
SCALE: 1" = 60'



KEY MAP
SHEET: 6
SCALE: 1" = 60'

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SHEETS	PLAN DESCRIPTION AND LOCATION	
1	KEY MAP & LEGEND	
2	PLAN & PROFILE	WOEHRLE AVE. FROM ALEXANDER AVE. TO WARING AVE.
3	PLAN & PROFILE	ALEXANDER AVE. FROM WOEHRLE AVE. TO LORING AVE.
4	PLAN & PROFILE	LORING AVE. FROM ALEXANDER AVE. TO FORRESTAL CT.
5	PLAN & PROFILE	FORRESTAL CT. FROM LORING AVE. TO DEAD END
6	PLAN & PROFILE	LEVERETT AVE. FROM BROOKFIELD AVE. TO COLON AVE.
	6 TOTAL	

ABBREVIATIONS

ABANDONED	ABDN.
AERIAL UTILITY LINE	A/E,T,C,F
•ELECTRICAL	E
•TELEPHONE	T
•CABLE	C
•FIRE	F
ALUMINUM	ALUM.
APARTMENT	APT.
ASPHALT	ASPH.
ASPHALT DRIVEWAY	A.DWY.
AWNING	AWN.
BASEMENT	BSMT.
BITUMINOUS	BIT.
BLOCK	BLK.
BLUESTONE	B.S.
BLUESTONE CURB	B.S.C.
BLUESTONE WALK	B.S.W.
BOTTOM OF CURB	BC
BRICK	BRK.
BRICK DRIVEWAY	B.DWY.
BRICK PAVERS	B.P.
BUILDING	BLDG.
CALCULATION	CALC.
CAST IRON	C.I.
CELLAR DOOR	CD
CENTER LINE	C.L.
CHAIN LINK FENCE	C.L.F.
CHAMBER	CH.
CLEAN–OUT	C.O.
COLUMN	COL.
COMBINED	COMB.
COMMERCIAL	COMM.
CONCRETE	CONC.
CONCRETE CURB	C.C.
CONCRETE DRIVEWAY	C.DWY.
CONCRETE PAVERS	C.P.
CONCRETE RETAINING WALL	C.R.W.
CONCRETE SIDEWALK	C.SW.
CONCRETE WALK	C.W.
CORNER	COR.
DIAMETER	DIA.
DOUBLE BARREL	D.B.
DRAIN	DR.
DRAWING	DWG.
DRIVEWAY	DWY.
DROP CURB	DC
EDGE OF PAVEMENT	E.O.P.
ELEVATION	ELEV.
ENTRANCE	ENT.
EXISTING	EXIST.
FIRE ALARM	F.A.
FIRE DEPARTMENT	F.D.
FIRST FLOOR	FF
FRAME	FR.
GARAGE	GAR.
GRANITE	GRAN.
GRANITE CURB	G.C.
GRATE	GR.
INACCESSIBLE	INACC.
INTERCEPTOR	INT.
INVERT (ELEVATION)	INV.
IRON FENCE	I.F.
IRREGULAR	IRR.
LENGTH	L.
MANHOLE	MH
METAL	MTL.
METAL FENCE	M.F.
METAL PLATE	M.PLT.
NOT TO SCALE	N.T.S.
OPEN PORCH	O.P.
OVERHEAD	O.H.
PAINTED	PTD.
PAVEMENT	PVMT.
PAVERS	PAV.
POINT OF CURVATURE	P.C.
POINT OF INTERSECTION	P.I.
POINT OF TANGENCY	P.T.
PRECAST REINFORCED CONCRETE	P.R.C.
RADIUS	R
RECORD INFO.	REC.
REINFORCED CONCRETE PIPE	R.C.P.
RESIDENTIAL	RES.
RETAINING WALL	R.W.
RETIRED (UTILITY)	RET.
ROADWAY	RDWY.
SANITARY	SAN.
SEWER	SWR.
SIDEWALK	SW.
STANDARD	STD.
STEAM	ST.
STEEL	STL.
STEEL FACED CURB	S.F.C.
STEEL NOSED CURB	S.N.C.
STONE	STN.
STONE PAVERS	S.P.
STONE RETAINING WALL	S.R.W.
STORM	STM.
STORY	STY.
TOP OF CURB	T.C.
TRAFFIC SIGN	T.S.
TRENCH DRAIN	T.DR.
TYPICAL	TYP.
VACANT	VAC.
VAULT	VLT.
VINYL FENCE	V.F.
WIDTH	W.
WOODEN FENCE	W.F.

MISC. ABBREVIATIONS

NORTH EAST	N.E.
NORTH WEST	N.W.
SOUTH EAST	S.E.
SOUTH WEST	S.W.
EAST SIDE	E/S
NORTH SIDE	N/S
SOUTH SIDE	S/S
WEST SIDE	W/S

NOTE: ALL ELEVATIONS NOT SHOWN IN PARENTHESES ON THIS SURVEY REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 "NAVD88". TO CONVERT THIS DATUM TO RICHMOND HIGH WATER DATUM, SUBTRACT 2.092 FEET FROM EACH ELEVATION. ELEVATIONS SHOWN THUS (XXXX) REFER TO THE RICHMOND HIGH WATER DATUM.

NO.	DATE	DESCRIPTION	BY	APPR'D
		REVISIONS		

DESIGNED_____
DRAWN_____W. KAN_____
TRACED_____
CHECKED_ C. WILLIAMS_____

SCALE
AS SHOWN

CADD FILE_T4041A1KeyG6468_

GROUP LEADER

P.E.
ENGINEER IN CHARGE, IN HOUSE DESIGN

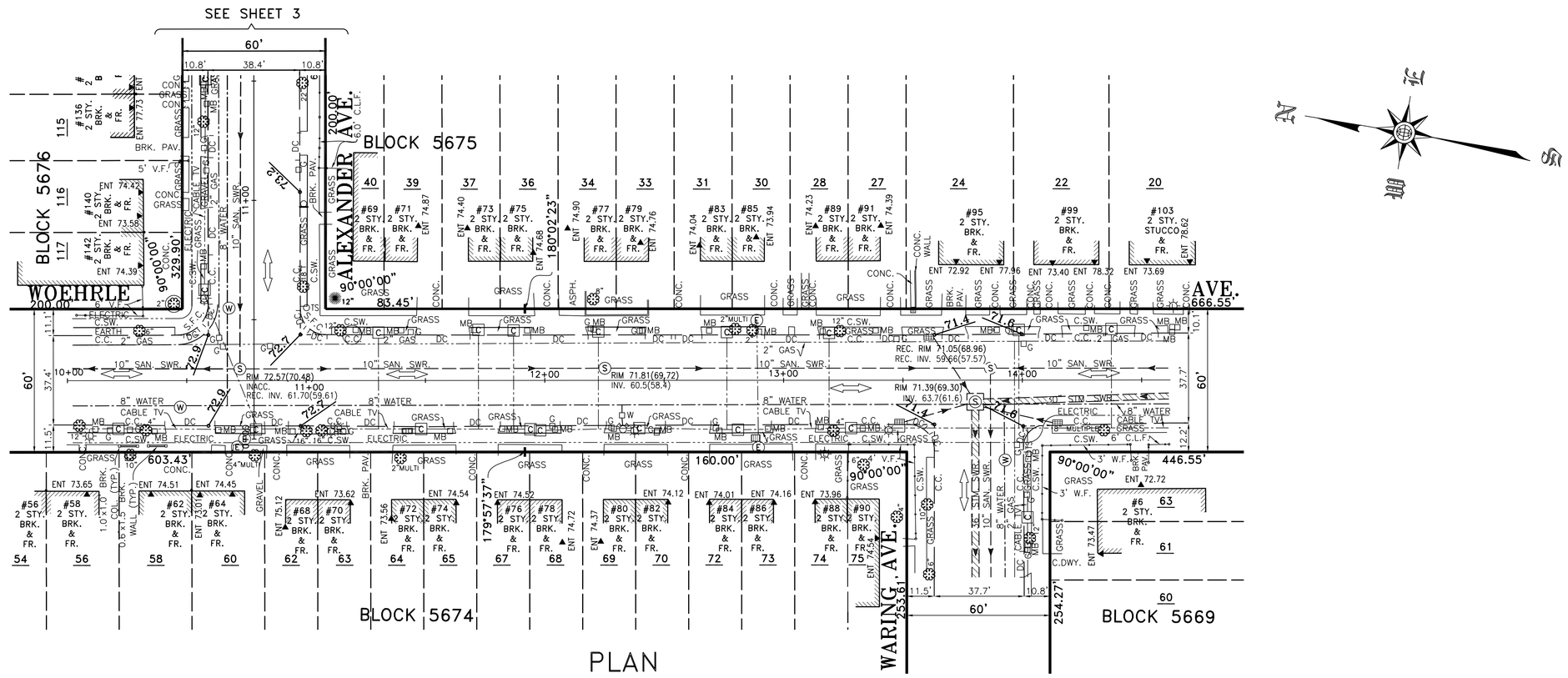
CITY OF NEW YORK
DEPARTMENT OF DESIGN AND CONSTRUCTION
DIVISION OF SAFETY AND SITE SUPPORT
BUREAU OF SITE ENGINEERING
TOPOGRAPHICAL SECTION

PROJECT ID SER–200277
FOR THE CONSTRUCTION OF
NEW STORM SEWER IN LEVERETT AVENUE, ETC.
BOROUGH OF STATEN ISLAND
KEY MAP & LEGEND

4041 / A

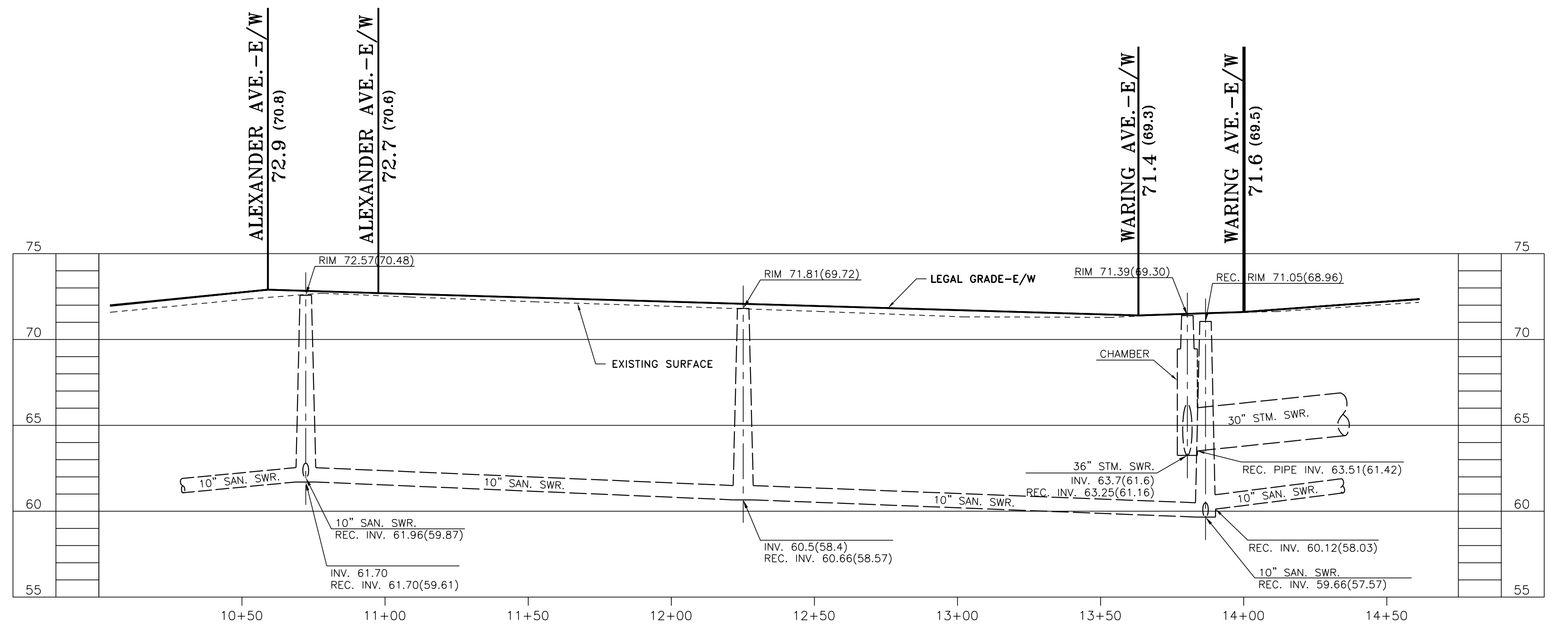
DATE: 10/22/14

SHEET OF 1K / 6



PLAN

SCALE: 1" = 30'



SEWER PROFILE ALONG WOEHRLE AVE.

SCALE: VERT: 1" = 5'
HORIZ: 1" = 30'

"ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY MARKED WITH AN ORIGINAL OF THE LAND SURVEYOR'S BLUE INKED OR EMBOSSED SEAL SHALL BE CONSIDERED TO BE A TRUE VALID COPY"

"UNAUTHORIZED ALTERATIONS OR ADDITION TO A LAND SURVEYING DRAWING BEARING A LICENSED PROFESSIONAL LAND SURVEYOR'S SEAL IS A VIOLATION OF ARTICLE 145, SECTION 7209, PARAGRAPH 2 OF THE NEW YORK STATE EDUCATION LAW"

FIELD SURVEY WAS COMPLETED ON: OCTOBER 06, 2014

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.

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NO.	DATE	DESCRIPTION	BY	APPR'D
		REVISIONS		

DESIGNED_____
DRAWN W. KAN
TRACED_____
CHECKED C. WILLIAMS

SCALE AS SHOWN

CADD FILE T4041A2G6468

GROUP LEADER

P.E.
ENGINEER IN CHARGE, IN HOUSE DESIGN

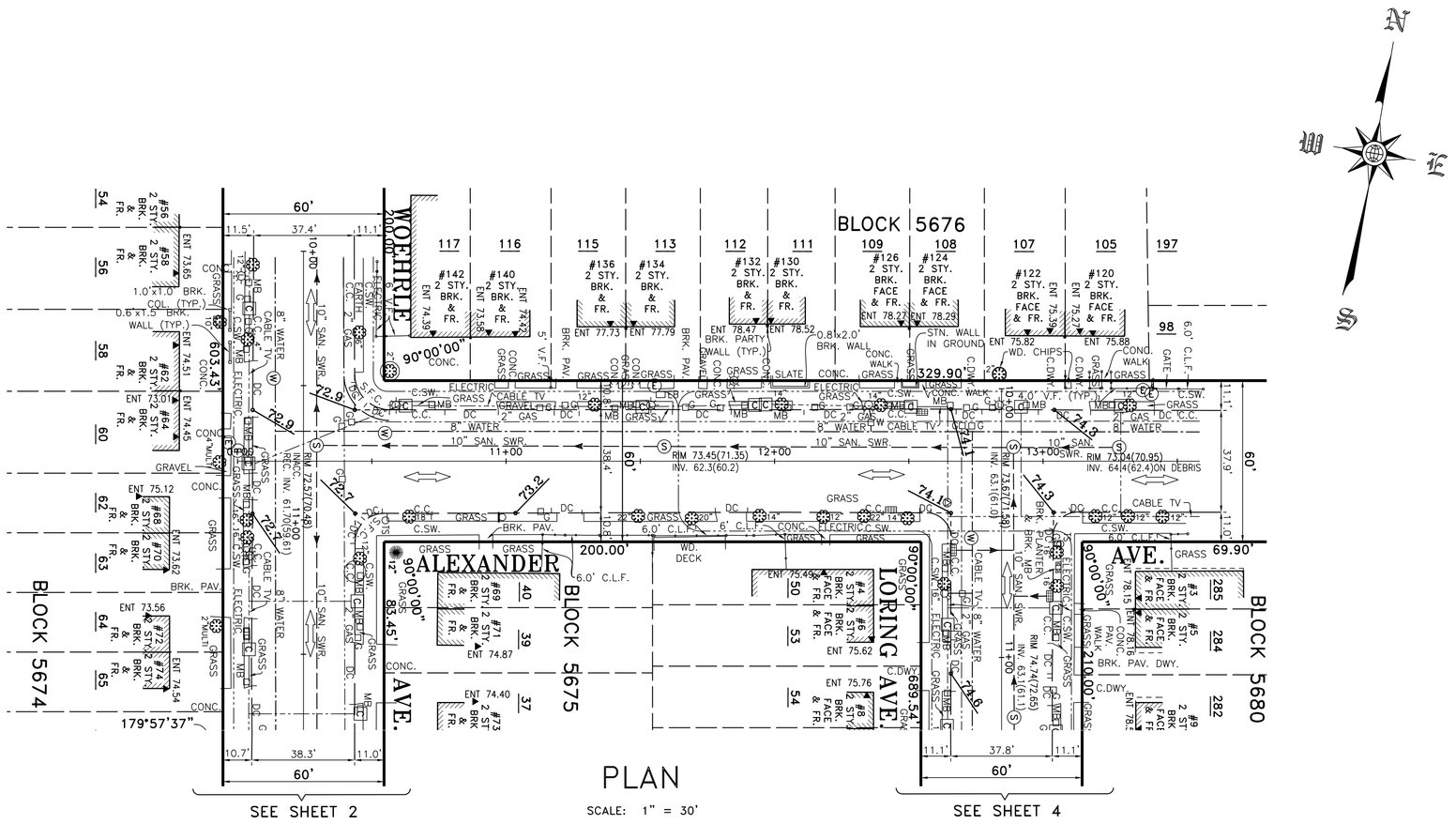
CITY OF NEW YORK
DEPARTMENT OF DESIGN AND CONSTRUCTION
DIVISION OF SAFETY AND SITE SUPPORT
BUREAU OF SITE ENGINEERING
TOPOGRAPHICAL SECTION

PROJECT ID SER-200277
FOR THE CONSTRUCTION OF
NEW STORM SEWER IN LEVERETT AVENUE, ETC.
WOEHRLE AVE. FROM ALEXANDER AVE. TO WARING AVE.
BOROUGH OF STATEN ISLAND
PLAN AND PROFILE

4041 A

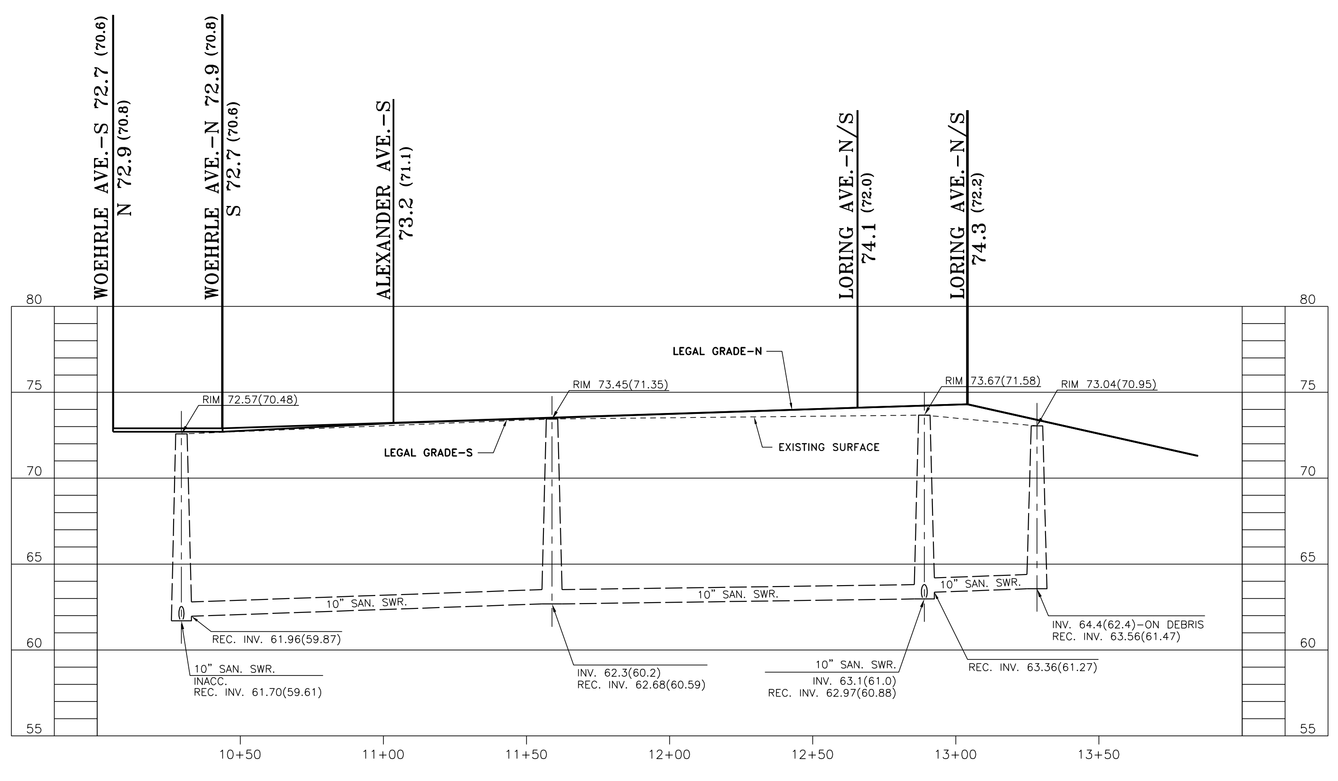
DATE: 10/22/14

SHEET OF 2/6



PLAN

SCALE: 1" = 30'



SEWER PROFILE ALONG ALEXANDER AVE.

SCALE: VERT: 1" = 5'
HORIZ: 1" = 30'

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		REVISIONS		

DESIGNED_____
DRAWN W. KAN
TRACED_____
CHECKED C. WILLIAMS

SCALE AS SHOWN

CADD FILE T4041A3G6468

GROUP LEADER

P.E.
ENGINEER IN CHARGE, IN HOUSE DESIGN

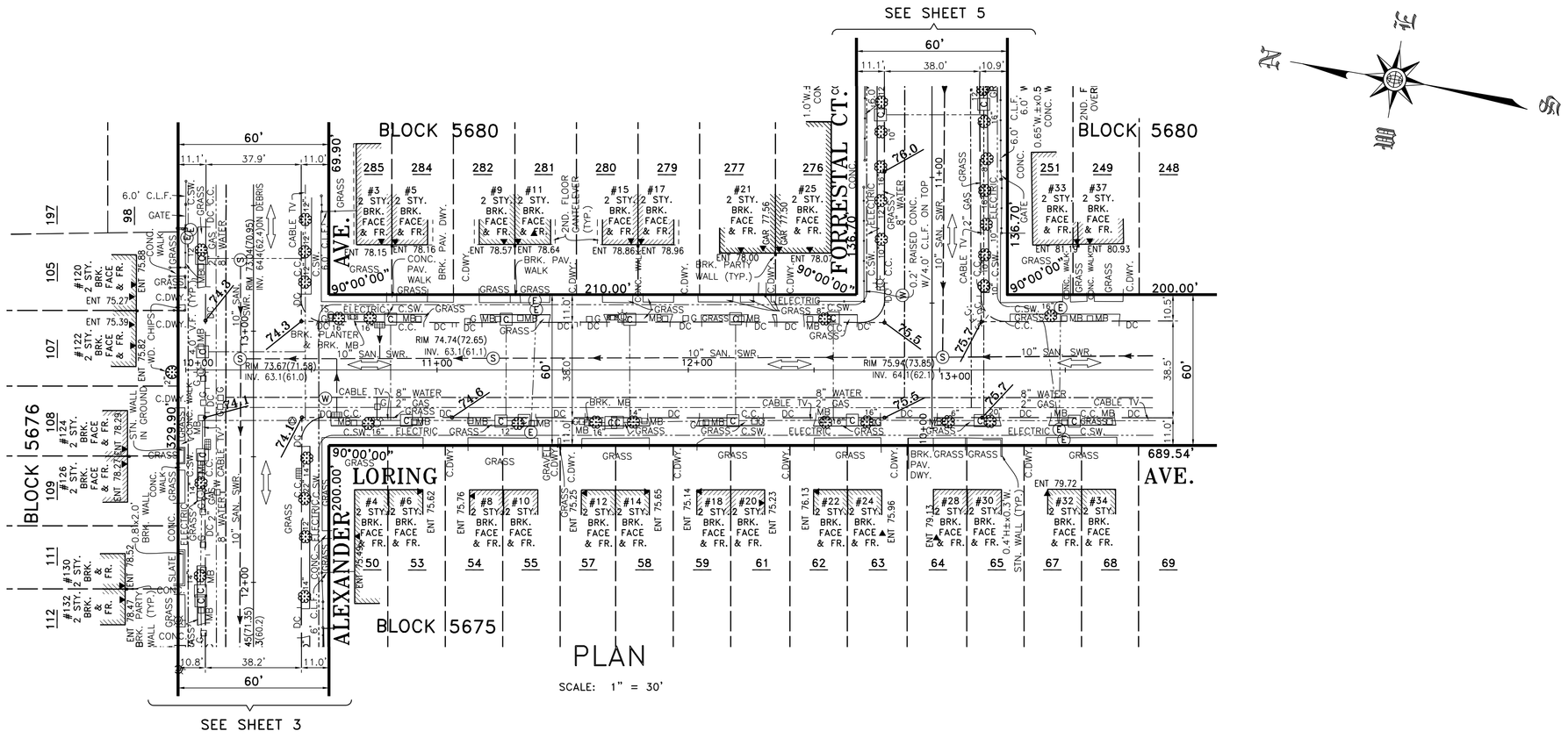
CITY OF NEW YORK
DEPARTMENT OF DESIGN AND CONSTRUCTION
DIVISION OF SAFETY AND SITE SUPPORT
BUREAU OF SITE ENGINEERING
TOPOGRAPHICAL SECTION

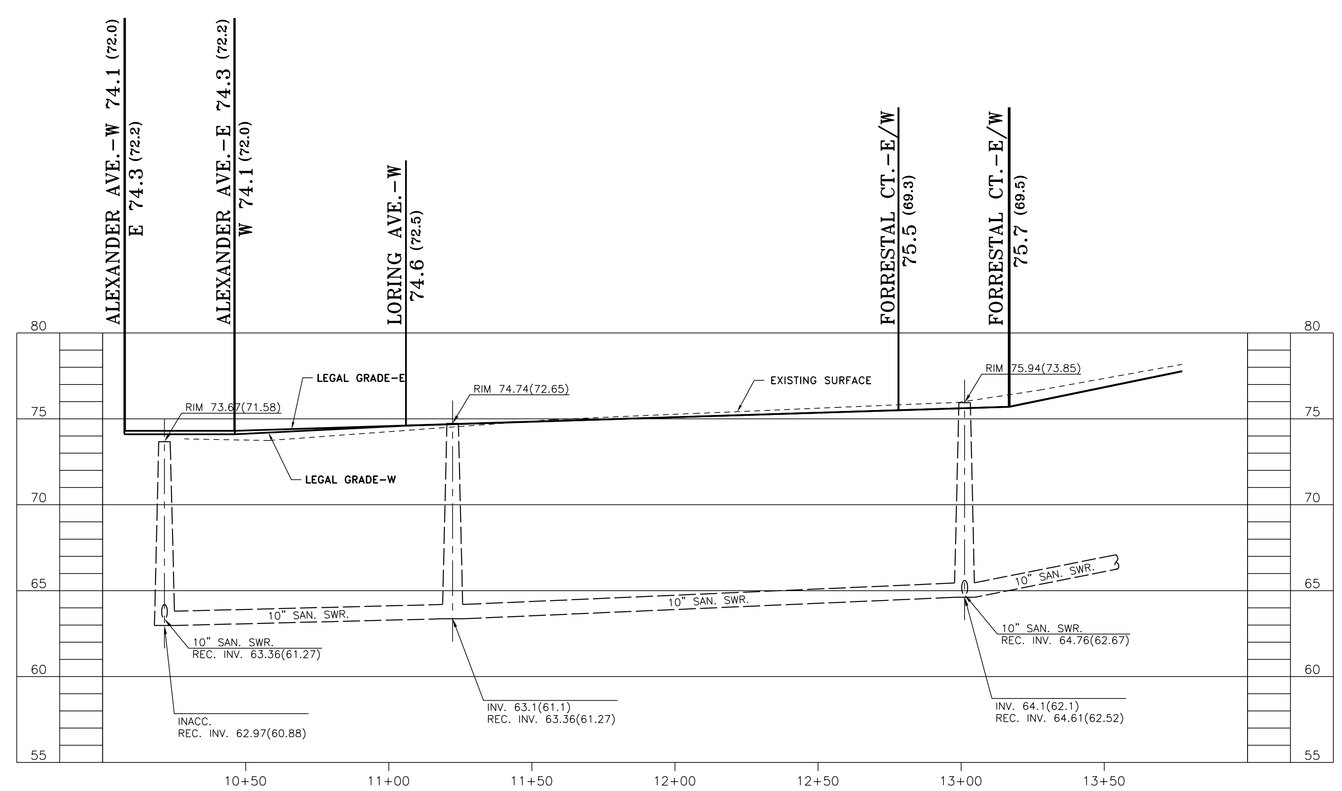
PROJECT ID SER-200277
FOR THE CONSTRUCTION OF
NEW STORM SEWER IN LEVERETT AVENUE, ETC.
ALEXANDER AVE. FROM WOEHRLE AVE. TO LORING AVE.
BOROUGH OF STATEN ISLAND
PLAN AND PROFILE

4041 A

DATE: 10/22/14

SHEET 3 OF 6





SEWER PROFILE ALONG LORING AVE.

SCALE: VERT: 1" = 5'
HORIZ: 1" = 30'

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FIELD SURVEY WAS COMPLETED ON: OCTOBER 06, 2014

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DESIGNED_____
DRAWN W. KAN
TRACED_____
CHECKED C. WILLIAMS

SCALE AS SHOWN

CADD FILE T4041A4G6468

GROUP LEADER

P.E.
ENGINEER IN CHARGE, IN HOUSE DESIGN

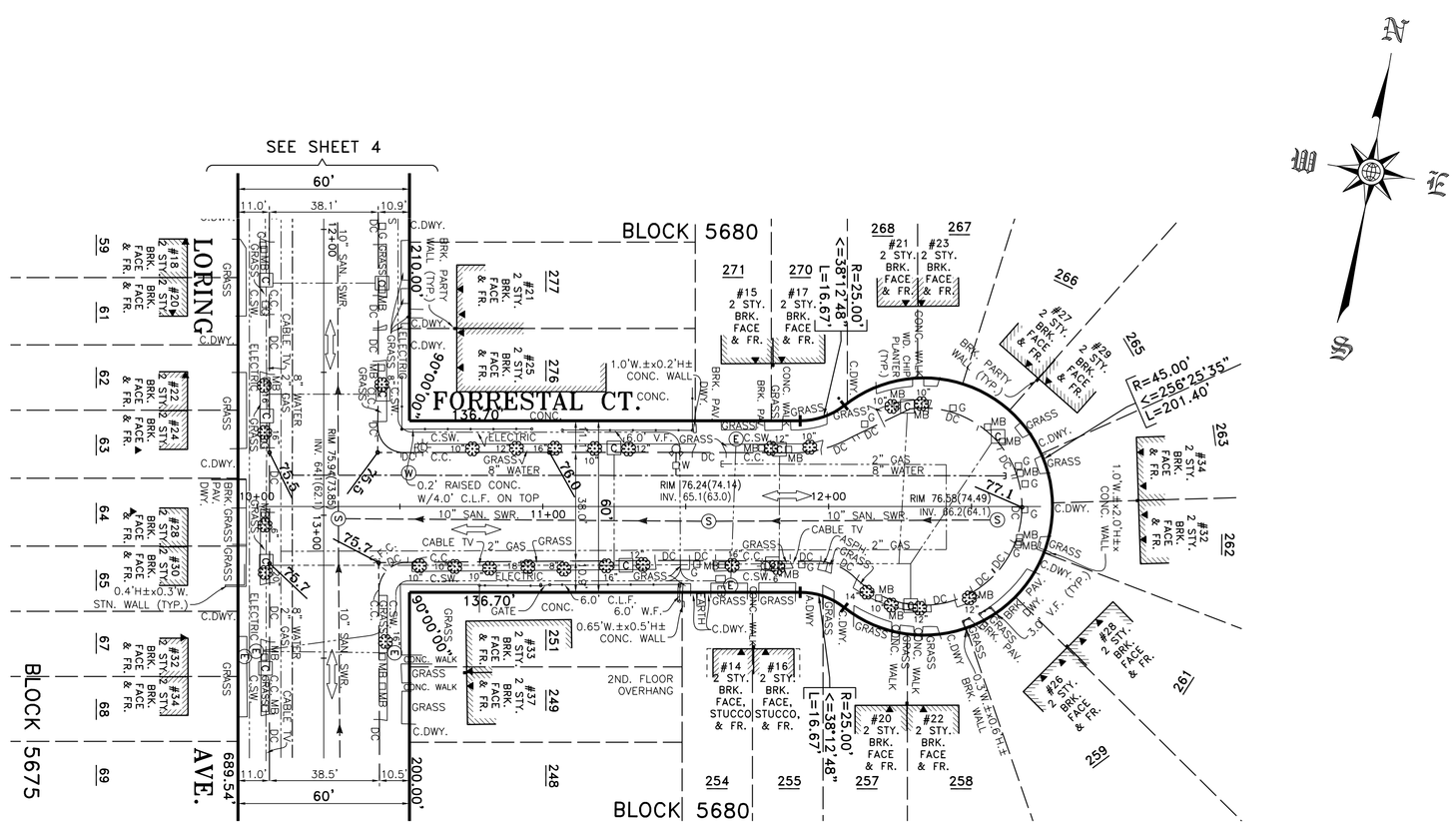
CITY OF NEW YORK
DEPARTMENT OF DESIGN AND CONSTRUCTION
DIVISION OF SAFETY AND SITE SUPPORT
BUREAU OF SITE ENGINEERING
TOPOGRAPHICAL SECTION

PROJECT ID SER-200277
FOR THE CONSTRUCTION OF
NEW STORM SEWER IN LEVERETT AVENUE, ETC.
LORING AVE. FROM ALEXANDER AVE. TO FORRESTAL CT.
BOROUGH OF STATEN ISLAND
PLAN AND PROFILE

4041 A

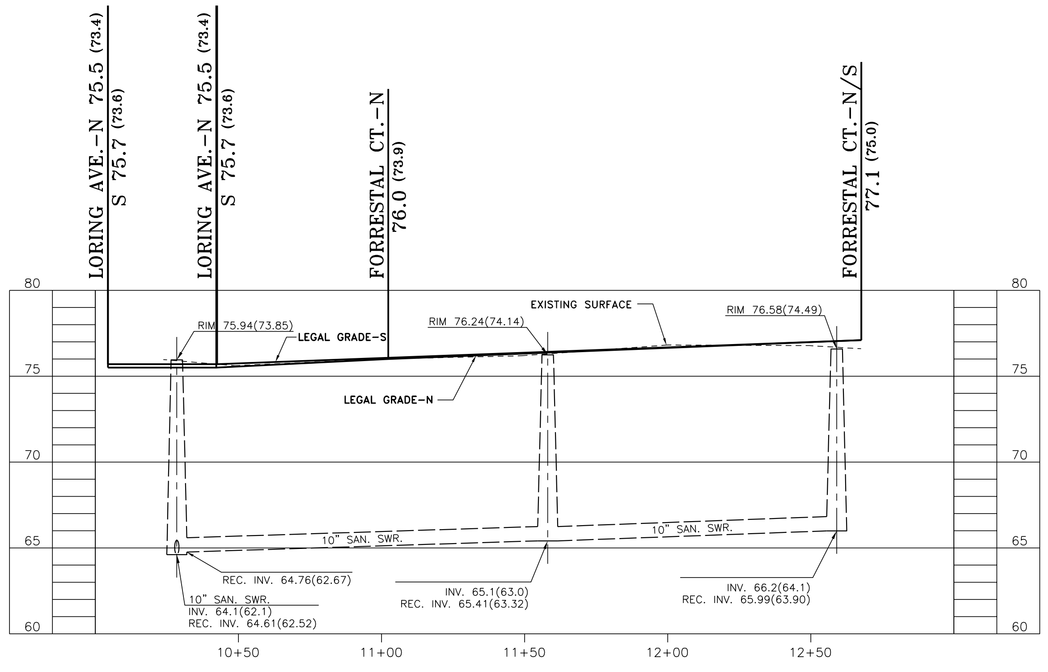
DATE: 10/22/14

SHEET OF 4/6



PLAN

SCALE: 1" = 30'



SEWER PROFILE ALONG FORRESTAL CT.

SCALE: VERT: 1" = 5'
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FIELD SURVEY WAS COMPLETED ON: OCTOBER 06, 2014

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TRACED_____
CHECKED C. WILLIAMS

SCALE AS SHOWN

CADD FILE T4041A5G6468

GROUP LEADER

P.E.
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CITY OF NEW YORK
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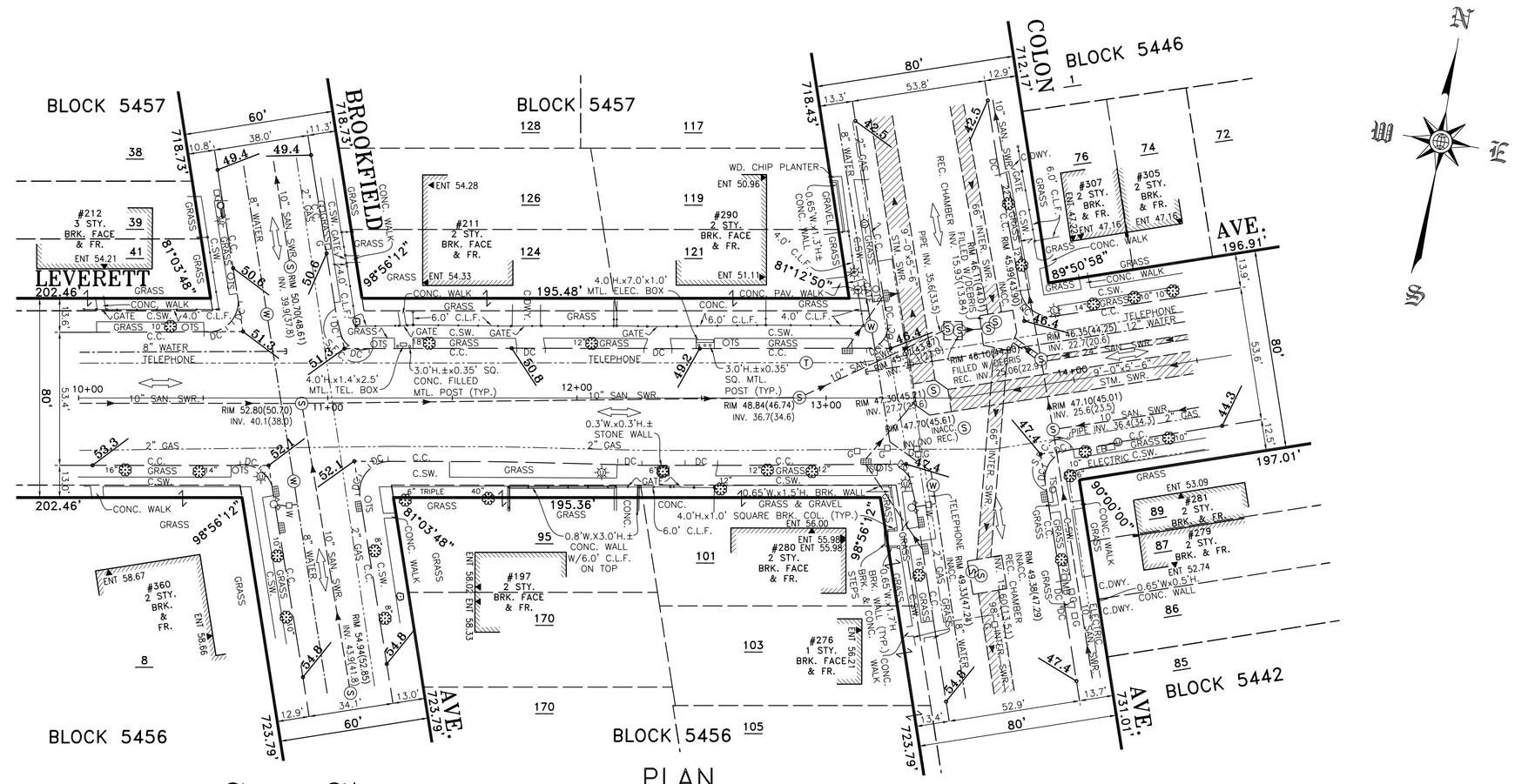
FORRESTAL CT. FROM LORING AVE. TO DEAD END
BOROUGH OF STATEN ISLAND
PLAN AND PROFILE

4041 A

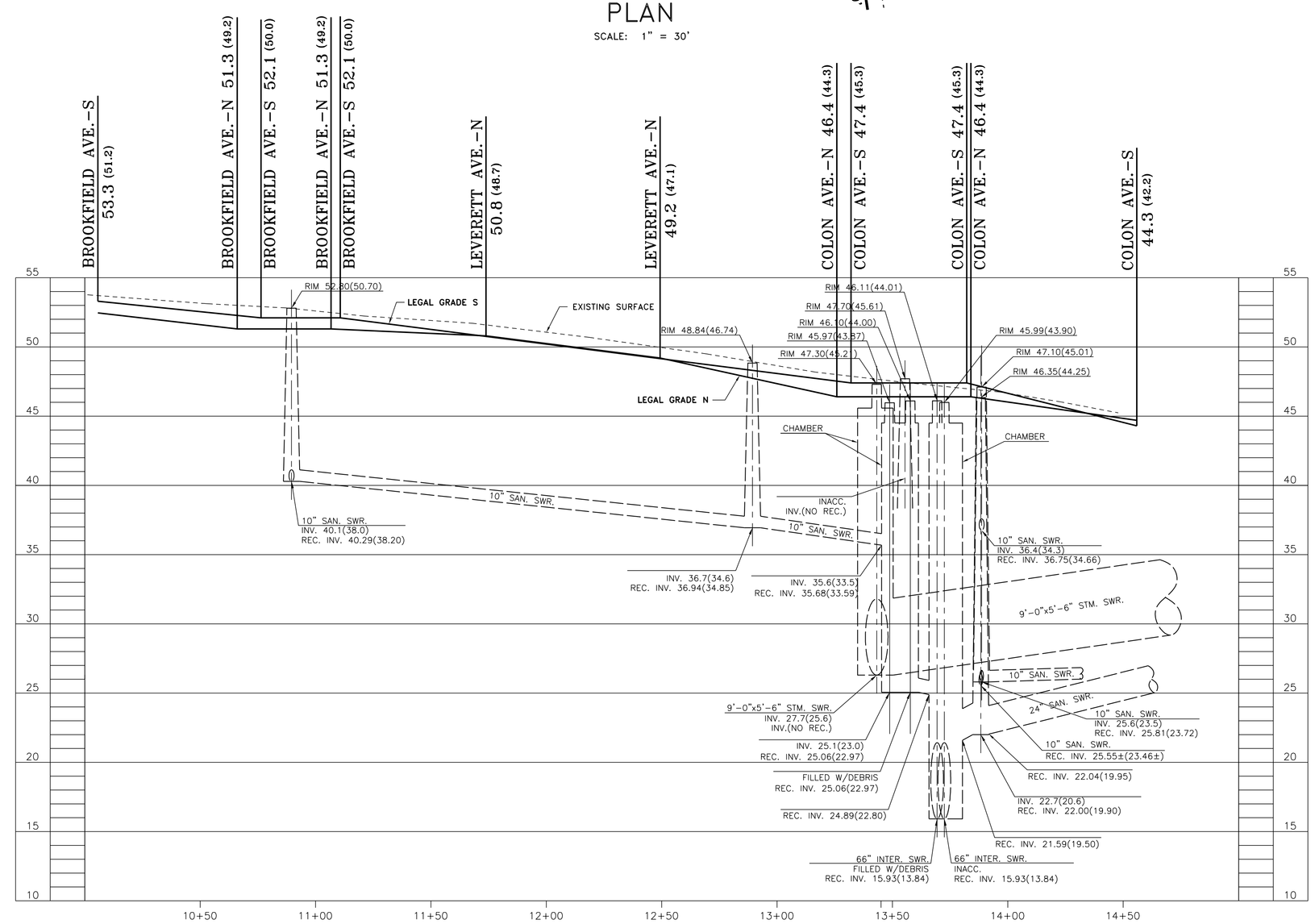
DATE: 10/22/14

SHEET 5 OF 6



PLAN

SCALE: 1" = 30'



SEWER PROFILE ALONG LEVERETT AVE.

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FIELD SURVEY WAS COMPLETED ON: SEPTMBER 25, 2014

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NO.	DATE	DESCRIPTION	BY	APPR'D
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DESIGNED_____
DRAWN W. KAN
TRACED_____
CHECKED C. WILLIAMS

SCALE AS SHOWN

CADD FILE T4041A6G6468

GROUP LEADER

P.E.
ENGINEER IN CHARGE, IN HOUSE DESIGN

CITY OF NEW YORK
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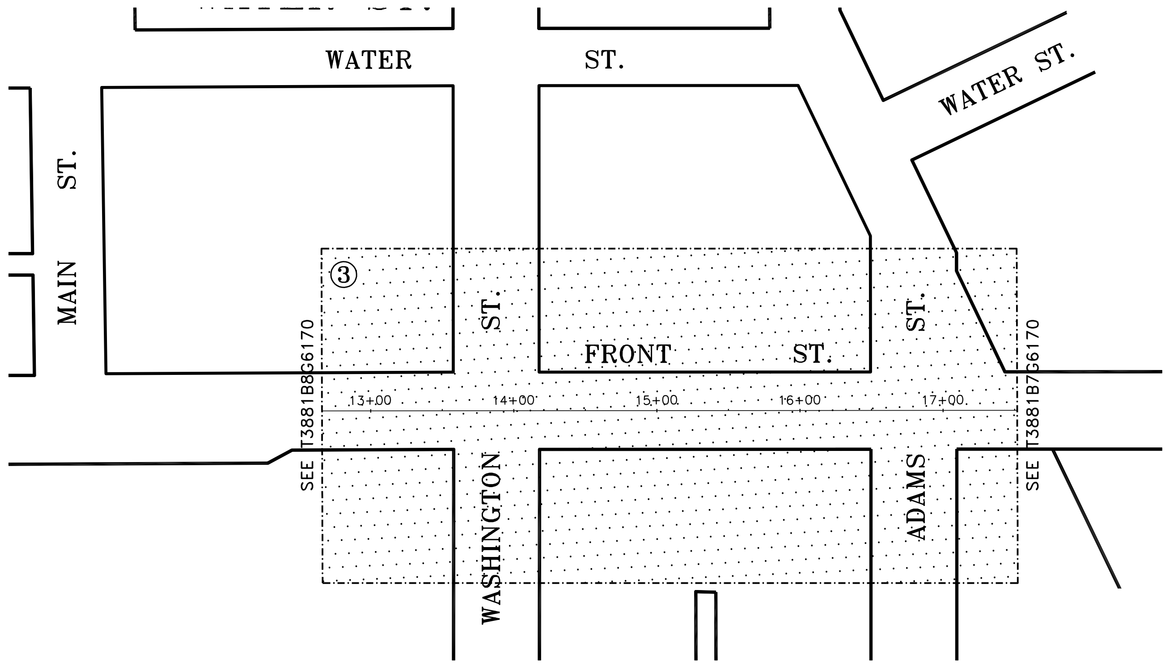
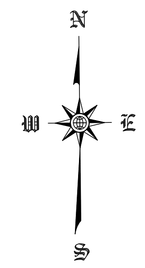
LEVERETT AVE. FROM BROOKFIELD AVE. TO COLON AVE.
BOROUGH OF STATEN ISLAND
PLAN AND PROFILE

4041 A

DATE: 10/22/14

SHEET OF 6 6





LEGEND

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INTERPOLATED GRADE	84.8 INTP.
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GUIDE RAIL	
SEWER	
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WATER	
WATER (24" or Greater)	24" WATER
GAS	
ELECTRIC	
TELEPHONE/FIRE ALARM/CABLE	
STEAM	
AERIAL UTILITY LINE	A/E,T,C,F = AERIAL/ELEC., TEL., CABLE, FIRE
U.S. PIERHEAD LINE	
U.S. BULKHEAD LINE	
U.S. PIERHEAD & BULKHEAD LINE	
CATCHBASIN	
FIRE HYDRANT	LOW PRESSURE / HIGH PRESSURE
VALVES	W / G / St / ?
HEDGES	HEDGES
TREE & TRUNK DIAMETER	(TREE) (EVERGREEN) (SHRUB)
DEPRESSED CURB	DC
TAX LOT NUMBER	1
TAX LOT LINE	
TAX BLOCK LINE	
EASEMENT LINE	
STREET LINE & DIMENSION	400.60'
LOT CROSSES LINE	

KEY MAP

SCALE: 1" = 60'

SYMBOLS

MANHOLES

- (S) SEWER
- (E) ELECTRIC
- (St) STEAM
- (Su) SUBWAY
- (MH) MANHOLE (NO ID)
- (S) FROM RECORD MAP
- (W) WATER
- (G) GAS
- (F) N.Y.F.D.
- (T) TELEPHONE
- (E) BECO or CTES
- (C) CABLE TV IRON

- BIKE SHARE
- TS TRAFFIC SIGN
- PARKING METER
- CC COAL CHUTE
- VENT PIPE
- F FIRE ALARM BOX
- TRAFFIC CONTROL BOX
- MB MAILBOX
- MM MUNI METER
- TEL PAY PHONE
- EB ELECTRIC BOX
- FILL OIL FILL
- MONUMENT
- STANDPIPE
- SPRINKLER
- ROUND DRAIN
- SQUARE DRAIN
- SIGN
- BORING HOLE
- MONITORING WELL
- DIRECTION OF TRAFFIC

- GUY WIRE
- T TRAFFIC SIGNAL
- PS PEDESTRIAN SIGNAL
- TPS TRAFFIC SIGNAL W/PEDESTRIAN SIGNAL
- WOOD UTILITY POLE
- F WOOD UTILITY POLE W/FIRE ALARM BOX
- PS WOOD UTILITY POLE W/PEDESTRIAN SIGNAL
- T WOOD UTILITY POLE W/TRAFFIC SIGNAL
- TPS WOOD UTILITY POLE W/TRAFFIC SIGNAL & PED. SIGNAL
- WOOD UTILITY POLE W/STREET LIGHT
- F WOOD UTILITY POLE W/STREET LIGHT & FIRE ALARM BOX
- PS WOOD UTILITY POLE W/STREET LIGHT & PEDESTRIAN SIGNAL
- T WOOD UTILITY POLE W/STREET LIGHT & TRAFFIC SIGNAL
- TPS WOOD UTILITY POLE W/STREET LIGHT, TRAF. SIGNAL & PED. SIGNAL
- METAL STREET LIGHT
- PS METAL STREET LIGHT W/PEDESTRIAN SIGNAL
- T METAL STREET LIGHT W/TRAFFIC SIGNAL
- TPS METAL STREET LIGHT W/TRAFFIC SIGNAL & PEDESTRIAN SIGNAL

TABLE OF CONTENTS

SECTION	SHEETS	DESCRIPTION
1	1	KEY MAP & LEGEND
2	2	SURVEY CONTROL
3	3–6	3T, 3B, 3H, 3U
	6	TOTAL

ABBREVIATIONS

ABANDONED	ABDN.
AERIAL UTILITY LINE	A/E,T,C,F
•ELECTRICAL	E
•TELEPHONE	T
•CABLE	C
•FIRE	F
ALUMINUM	ALUM.
APARTMENT	APT.
ASPHALT	ASPH.
ASPHALT DRIVEWAY	A.DWY.
AWNING	AWN.
BASEMENT	BSMT.
BITUMINOUS	BIT.
BLOCK	BLK.
BLUESTONE	B.S.
BLUESTONE CURB	B.S.C.
BLUESTONE WALK	B.S.W.
BOTTOM OF CURB	BC
BRICK	BRK.
BRICK DRIVEWAY	B.DWY.
BRICK PAVERS	B.P.
BUILDING	BLDG.
CALCULATION	CALC.
CAST IRON	C.I.
CELLAR DOOR	CD
CENTER LINE	C.L.
CHAIN LINK FENCE	C.L.F.
CHAMBER	CH.
CLEAN-OUT	C.O.
COLUMN	COL.
COMBINED	COMB.
COMMERCIAL	COMM.
CONCRETE	CONC.
CONCRETE CURB	C.C.
CONCRETE DRIVEWAY	C.DWY.
CONCRETE PAVERS	C.P.
CONCRETE RETAINING WALL	C.R.W.
CONCRETE SIDEWALK	C.SW.
CONCRETE WALK	C.W.
CORNER	COR.
DIAMETER	DIA.
DOUBLE BARREL	D.B.
DRAIN	DR.
DRAWING	DWG.
DRIVEWAY	DWY.
DROP CURB	DC
EDGE OF PAVEMENT	E.O.P.
ELEVATION	ELEV.
ENTRANCE	ENT.
EXISTING	EXIST.
FIRE ALARM	F.A.
FIRE DEPARTMENT	F.D.
FIRST FLOOR	FF
FRAME	FR.
GARAGE	GAR.
GRANITE	GRAN.
GRANITE CURB	G.C.
GRATE	GR.
INACCESSIBLE	INACC.
INTERCEPTOR	INT.
INVERT (ELEVATION)	INV.
IRON FENCE	I.F.
IRREGULAR	IRR.
LENGTH	L.
MANHOLE	MH
METAL	MTL.
METAL FENCE	M.F.
METAL PLATE	M.PLT.
NOT TO SCALE	N.T.S.
OPEN PORCH	O.P.
OVERHEAD	O.H.
PAINTED	PTD.
PAVEMENT	PVMT.
PAVERS	PAV.
POINT OF CURVATURE	P.C.
POINT OF INTERSECTION	P.I.
POINT OF TANGENCY	P.T.
PRECAST REINFORCED CONCRETE	P.R.C.
RADIUS	R
RECORD INFO.	REC.
REINFORCED CONCRETE PIPE	R.C.P.
RESIDENTIAL	RES.
RETAINING WALL	R.W.
RETIRED (UTILITY)	RET.
ROADWAY	ROWY.
SANITARY	SAN.
SEWER	SWR.
SIDEWALK	SW.
STANDARD	STD.
STEAM	ST.
STEEL	STL.
STEEL FACED CURB	S.F.C.
STEEL NOSED CURB	S.N.C.
STONE	STN.
STONE PAVERS	S.P.
STONE RETAINING WALL	S.R.W.
STORM	STM.
STORY	STY.
TOP OF CURB	T.C.
TRAFFIC SIGN	T.S.
TRENCH DRAIN	T.DR.
TYPICAL	TYP.
VACANT	VAC.
VAULT	VLT.
VINYL FENCE	V.F.
WIDTH	W.
WOODEN FENCE	W.F.

MISC. ABBREVIATIONS

NORTH EAST	N.E.
NORTH WEST	N.W.
SOUTH EAST	S.E.
SOUTH WEST	S.W.
EAST SIDE	E/S
NORTH SIDE	N/S
SOUTH SIDE	S/S
WEST SIDE	W/S

NOTE: ALL ELEVATIONS SHOWN ON THIS SURVEY REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 "NAVD88". TO CONVERT THIS DATUM TO BROOKLYN HIGHWAY DATUM, SUBTRACT 1.460 FEET FROM EACH ELEVATION.

NO.	DATE	DESCRIPTIONS	BY	APPR'D

REVISIONS

DESIGNED
DRAWN G.KOLODZIEJSKI
TRACED
CHECKED C.WILLIAMS

SCALE AS SHOWN

CADD FILE T3881H1KeyG6562

GROUP LEADER

P.E.
ENGINEER IN CHARGE, IN HOUSE DESIGN

CITY OF NEW YORK
DEPARTMENT OF DESIGN AND CONSTRUCTION
DIVISION OF SAFETY AND SITE SUPPORT
BUREAU OF SITE ENGINEERING
TOPOGRAPHICAL SECTION

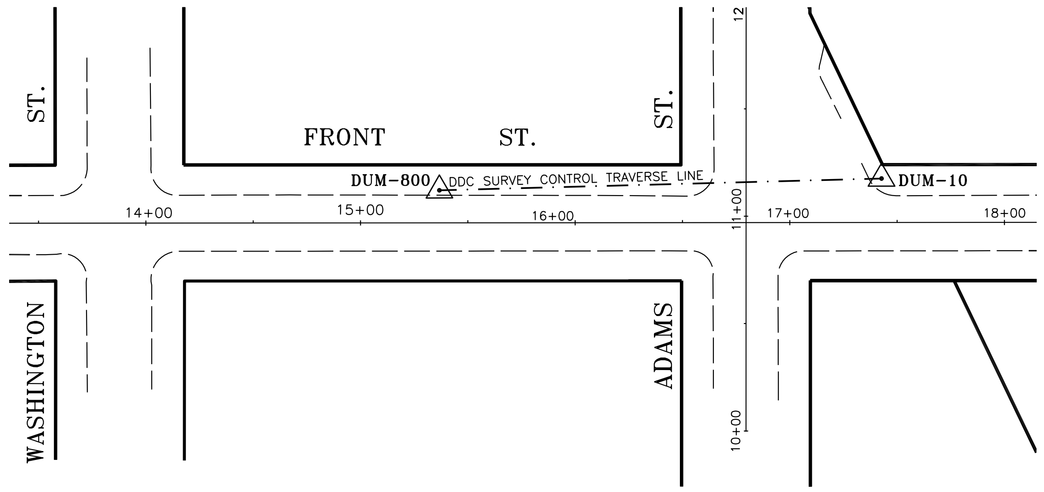
PROJECT ID HWKKP005
FOR THE CONSTRUCTION OF
ROADWAY IMPROVEMENT IN DUMBO/VINEGAR HILL AREA
FRONT STREET FROM WASHINGTON STREET TO ADAMS STREET
BOROUGH OF BROOKLYN
KEY MAP & LEGEND

3881 H

DATE: 11/05/14

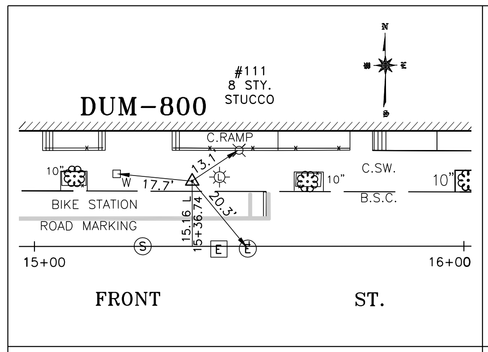
SHEET OF

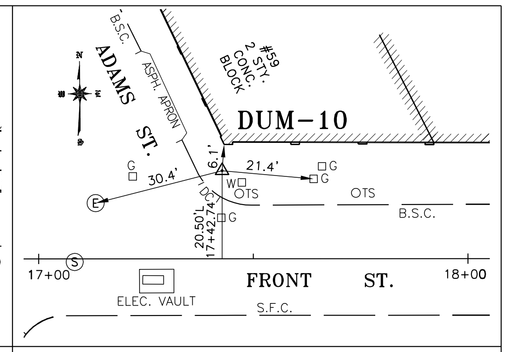
1K 1



SURVEY CONTROL PLAN

SCALE: 1" = 40'





DUM-800	NORTH	EAST	ELEV.
	195233.64	987277.02	15.94

X-CUT IN CONCRETE SIDEWALK AT NORTHERLY SIDE OF FRONT STREET. CUT IS 113± FEET WEST OF BLDG. CORNER ON NORTHWESTERLY SIDE OF FRONT STREET AND ADAMS STREET.

DUM-10	NORTH	EAST	ELEV.
	195229.72	987483.09	16.01

X-CUT IN CONCRETE SIDEWALK AT NORTHEAST CORNER OF FRONT STREET AND ADAMS STREET.

TRAVERSE TIES

SCALE: 1" = 20'

BENCHMARK TABLE

BENCHMARK	ELEVATION	DESCRIPTION
BM-VP-341	33.12	⊔ CUT AT SOUTH EDGE OF SECOND BRICK, WEST OF SOUTHEAST CORNER OF 2" HIGH BRICK WATER TABLE AROUND 5 STORY BRICK BUILDING #50 BRIDGE STREET AT NORTHWEST CORNER OF BRIDGE STREET AND WATER STREET.
BM-VP-342	23.86	⅄ CUT ON NORTH BRICK FACE OF 6 STORY BRICK BUILDING #57 JAY STREET AT SOUTHEAST CORNER OF JAY STREET AND WATER STREET. BENCH MARK IS 0.75'± EAST OF NORTHWEST CORNER OF BUILDING AND 5.75'± ABOVE SIDEWALK.
BM-VP-343	40.69	⅄ CUT ON NORTH BRICK FACE OF BRICK GARAGE ATTACHED TO 4 STORY BRICK #69 AT SOUTHEAST CORNER OF WATER STREET AND GOLD STREET. CUT IS 0.27'± WEST OF NORTHEAST CORNER OF MENTIONED GARAGE, AND 4.5'± ABOVE CONCRETE SIDEWALK.

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FIELD SURVEY WAS COMPLETED IN: OCTOBER 20, 2014

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NO.	DATE	DESCRIPTIONS	BY	APPR'D

REVISIONS

DESIGNED_____
DRAWN G.KOLODZIEJSKI
TRACED_____
CHECKED C.WILLIAMS

SCALE AS SHOWN

CADD FILE T3881H2SCG6562

GROUP LEADER

P.E.
ENGINEER IN CHARGE, IN HOUSE DESIGN

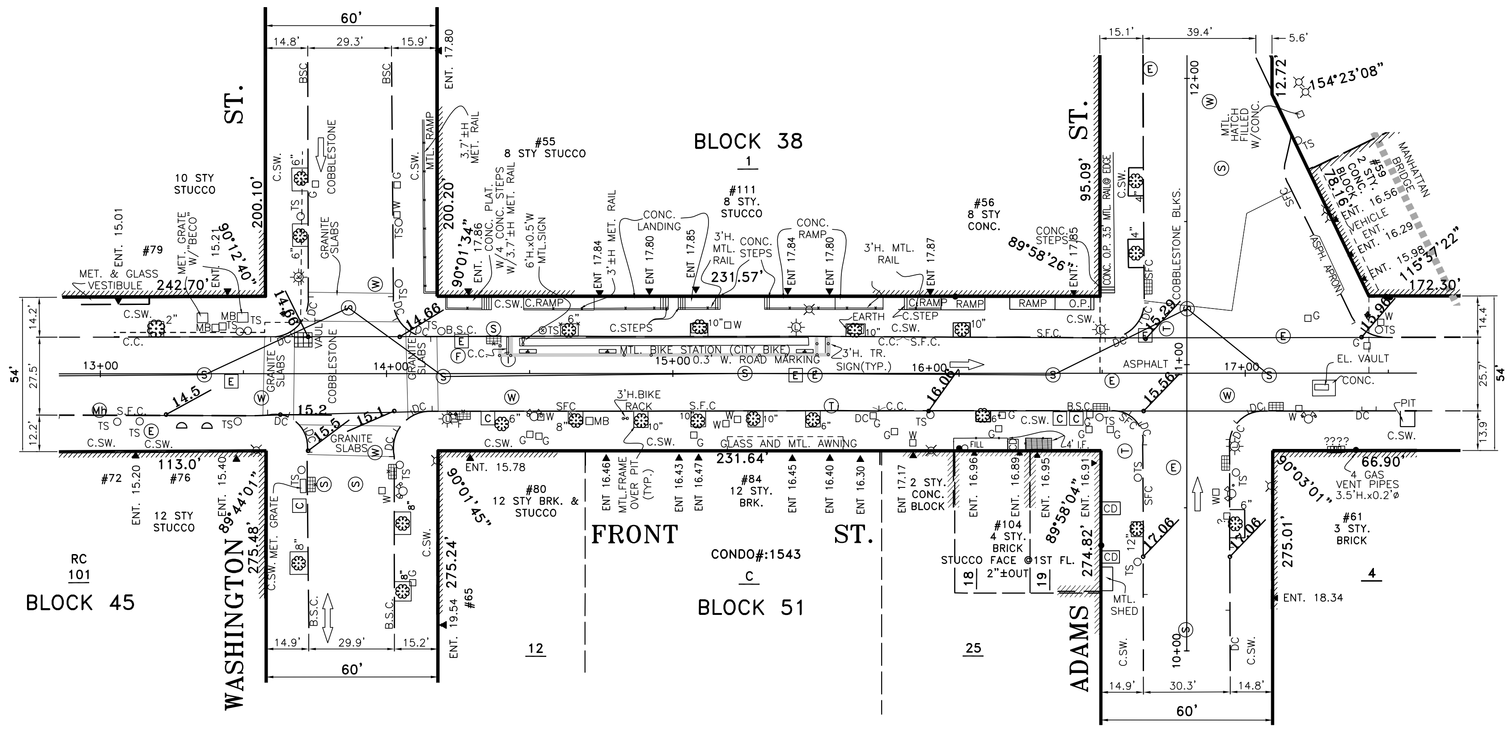
CITY OF NEW YORK
DEPARTMENT OF DESIGN AND CONSTRUCTION
DIVISION OF SAFETY AND SITE SUPPORT
BUREAU OF SITE ENGINEERING
TOPOGRAPHICAL SECTION

PROJECT ID HWKKP005
FOR THE CONSTRUCTION OF
ROADWAY IMPROVEMENT IN DUMBO/VINEGAR HILL AREA
BOROUGH OF BROOKLYN
SURVEY CONTROL

3881
H

DATE: 11/05/14

SHEET OF 2SC/2



PLAN

SCALE: 1" = 30'

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REVISIONS

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DRAWN___G.KOLODZIEJSKI___
TRACED_____
CHECKED___C.WILLIAMS___

SCALE
AS SHOWN

CADD FILE_T3881H3BG6562____

_____
GROUP LEADER

_____ P.E.
ENGINEER IN CHARGE, IN HOUSE DESIGN

CITY OF NEW YORK
DEPARTMENT OF DESIGN AND CONSTRUCTION
DIVISION OF SAFETY AND SITE SUPPORT
BUREAU OF SITE ENGINEERING
TOPOGRAPHICAL SECTION

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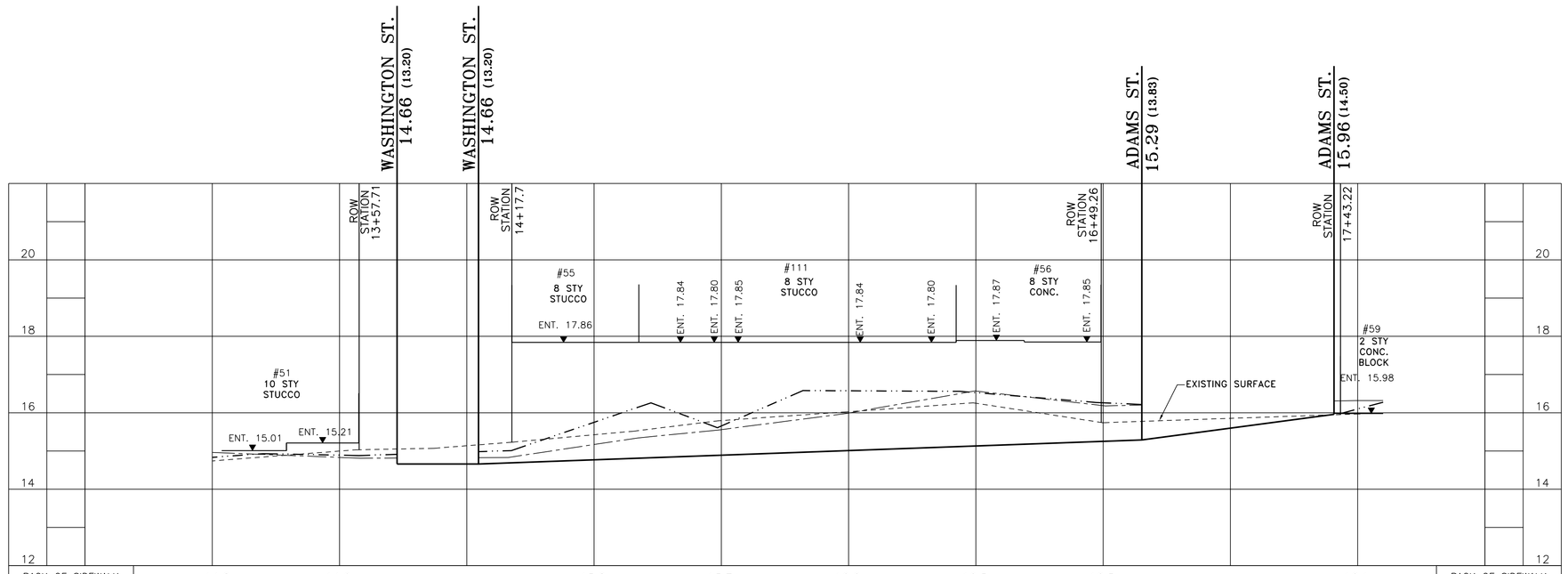
ROADWAY IMPROVEMENT IN DUMBO/VINEGAR HILL AREA
FRONT STREET FROM WASHINGTON STREET TO ADAMS STREET
BOROUGH OF BROOKLYN
CLEAN BASE PLAN

3881
H

DATE: 11/05/14

SHEET OF 38/4



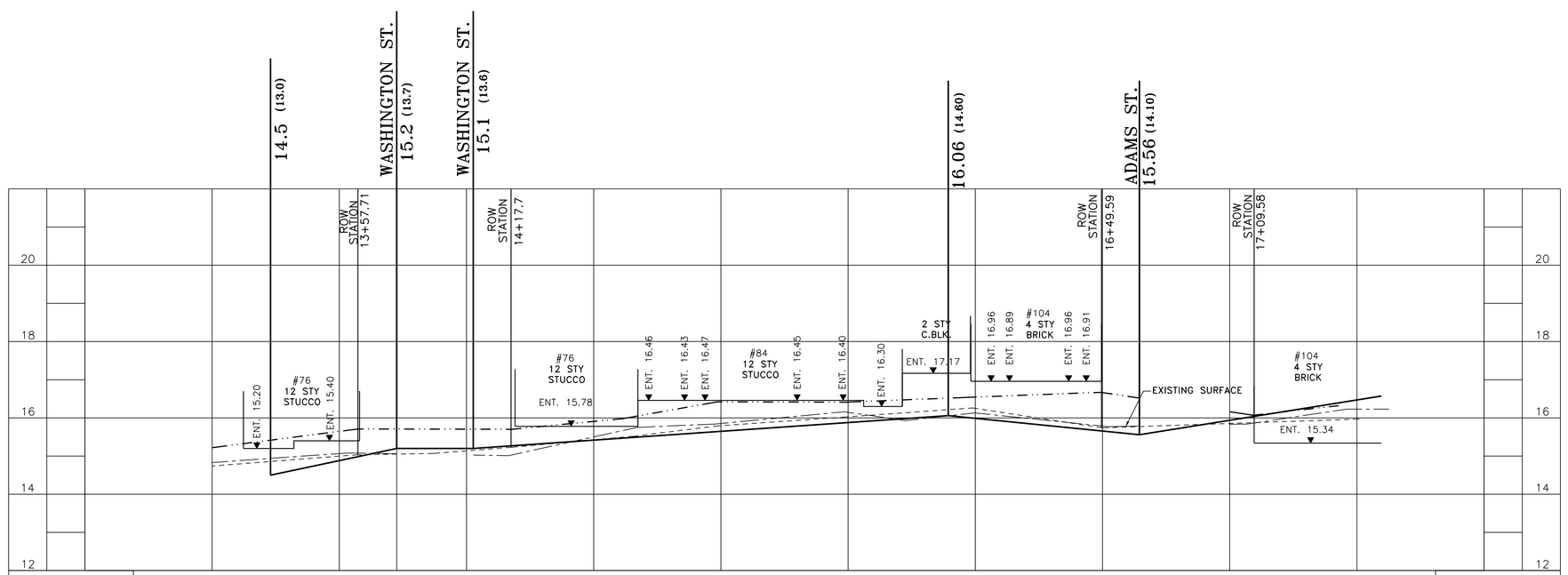
BACK OF SIDEWALK	14.8	14.9		15.8	15.7	16.6	16.5	16.3		16.1	BACK OF SIDEWALK
TOP OF CURB		14.8		15.2	15.6	16.0	16.6	16.2		16.3	TOP OF CURB
BOTTOM OF CURB		14.6		14.9	15.3	15.6	15.8	15.5		16.0	BOTTOM OF CURB
EXISTING SURFACE		15.0	15.1	15.4	15.8	16.0	16.2	15.7	15.9	16.0	EXISTING SURFACE
STATION	13+00	13+50	14+00	14+50	15+00	15+50	16+00	16+50	17+00	17+50	STATION

LEGEND

- EXISTING BACK OF SIDEWALK (OR ROW)
- EXISTING TOP OF CURB
- EXISTING SURFACE / ROADWAY CENTERLINE
- LEGAL GRADE

HIGHWAY PROFILE ALONG NORTH SIDE OF FRONT ST.

SCALE: VERT: 1" = 2'
HORIZ: 1" = 30'



BACK OF SIDEWALK	15.2	15.6	15.7	15.9	16.4	16.4	16.5	16.7		16.3	BACK OF SIDEWALK
TOP OF CURB		15.1	15.0	15.5	15.9	16.1	16.1	15.8		16.2	TOP OF CURB
BOTTOM OF CURB		14.8	14.8	15.1	15.3	15.7	15.9	15.4		15.7	BOTTOM OF CURB
EXISTING SURFACE		15.0	15.1	15.4	15.8	16.0	16.2	15.7	15.9	16.0	EXISTING SURFACE
STATION	13+00	13+50	14+00	14+50	15+00	15+50	16+00	16+50	17+00	17+50	STATION

LEGEND

- EXISTING BACK OF SIDEWALK (OR ROW)
- EXISTING TOP OF CURB
- EXISTING SURFACE / ROADWAY CENTERLINE
- LEGAL GRADE

HIGHWAY PROFILE ALONG SOUTH SIDE OF FRONT ST.

SCALE: VERT: 1" = 2'
HORIZ: 1" = 30'

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FIELD SURVEY WAS COMPLETED IN: OCTOBER 20, 2014

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NO.	DATE	DESCRIPTIONS	BY	APPR'D

REVISIONS

DESIGNED_____
DRAWN___G.KOLODZIEJSKI___
TRACED_____
CHECKED___C.WILLIAMS___

SCALE AS SHOWN

CADD FILE_T3881H3HG6562____

_____ GROUP LEADER

_____ P.E.
ENGINEER IN CHARGE, IN HOUSE DESIGN

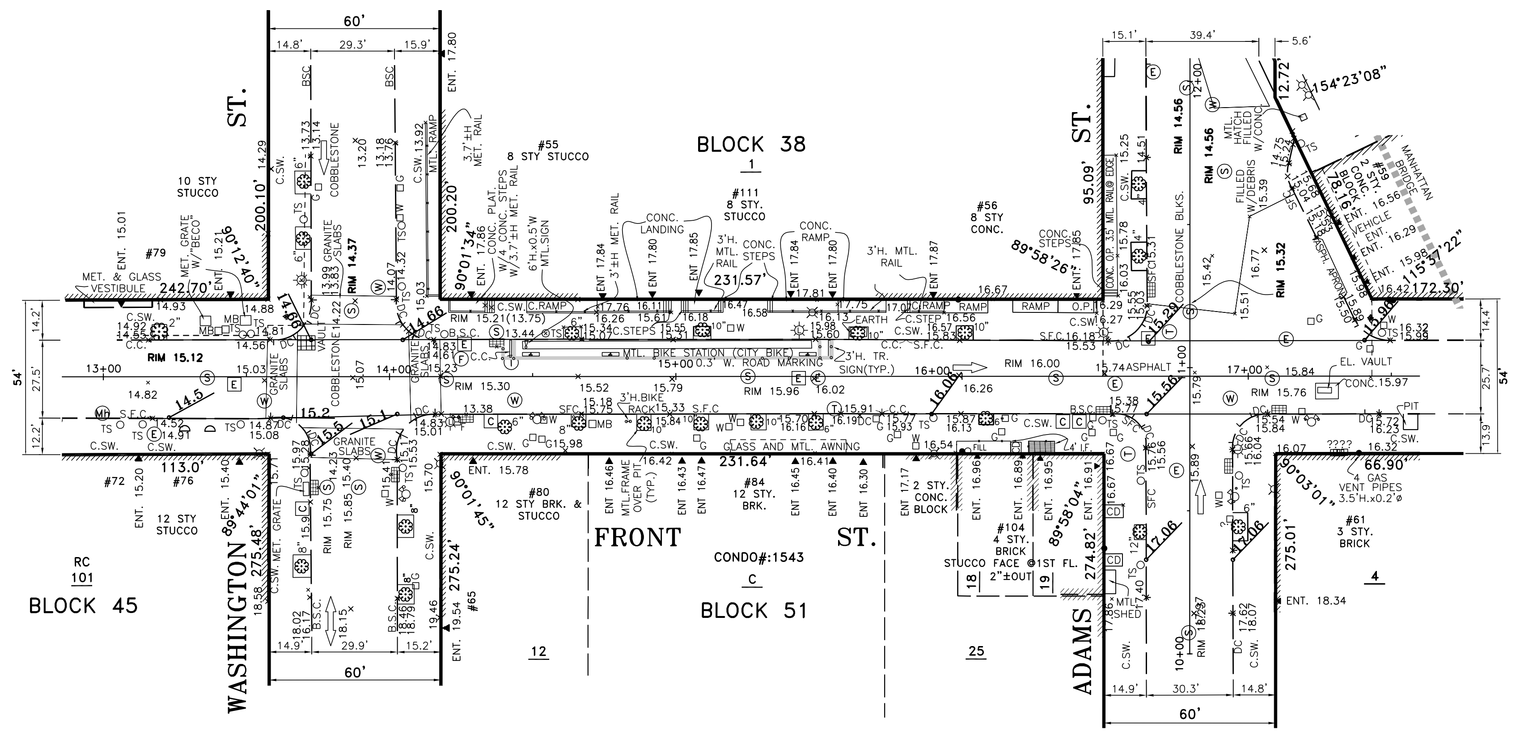
CITY OF NEW YORK
DEPARTMENT OF DESIGN AND CONSTRUCTION
DIVISION OF SAFETY AND SITE SUPPORT
BUREAU OF SITE ENGINEERING
TOPOGRAPHICAL SECTION

PROJECT ID HWKKP005
FOR THE CONSTRUCTION OF
ROADWAY IMPROVEMENT IN DUMBO/VINEGAR HILL AREA
FRONT STREET FROM WASHINGTON STREET TO ADAMS STREET
BOROUGH OF BROOKLYN
HIGHWAY PROFILE

3881 H

DATE: 11/05/14

SHEET OF 3H/5



PLAN

SCALE: 1" = 30'

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REVISIONS

DESIGNED_____
DRAWN___G.KOLODZIEJSKI___
TRACED_____
CHECKED___C.WILLIAMS___

SCALE
AS SHOWN

CADD FILE_T3881H3TG6562____

_____
GROUP LEADER

_____ P.E.
ENGINEER IN CHARGE, IN HOUSE DESIGN

CITY OF NEW YORK
DEPARTMENT OF DESIGN AND CONSTRUCTION
DIVISION OF SAFETY AND SITE SUPPORT
BUREAU OF SITE ENGINEERING
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FOR THE CONSTRUCTION OF
ROADWAY IMPROVEMENT IN DUMBO/VINEGAR HILL AREA
FRONT STREET FROM WASHINGTON STREET TO ADAMS STREET
BOROUGH OF BROOKLYN
TOPOGRAPHICAL PLAN

3881
H

DATE: 11/05/14

SHEET OF 3T/3

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REVISIONS				
NO.	DATE	DESCRIPTIONS	BY	APPR'D

DESIGNED
DRAWN E. SAERO
TRACED
CHECKED C.WILLIAMS

SCALE AS SHOWN

GROUP LEADER

P.E. ENGINEER IN CHARGE, IN HOUSE DESIGN

CADD FILE T3881H3UG6562

CITY OF NEW YORK
DEPARTMENT OF DESIGN AND CONSTRUCTION
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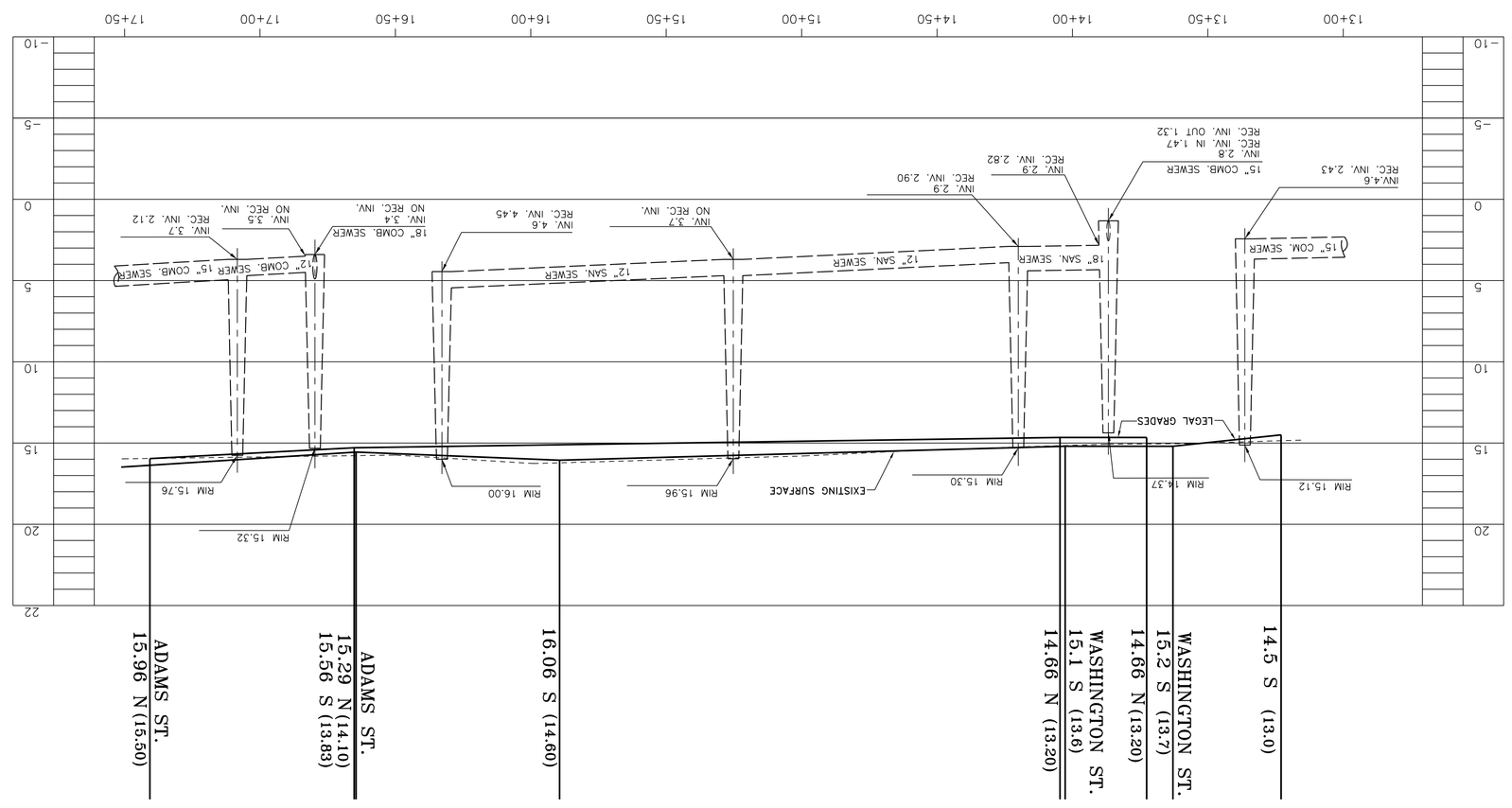
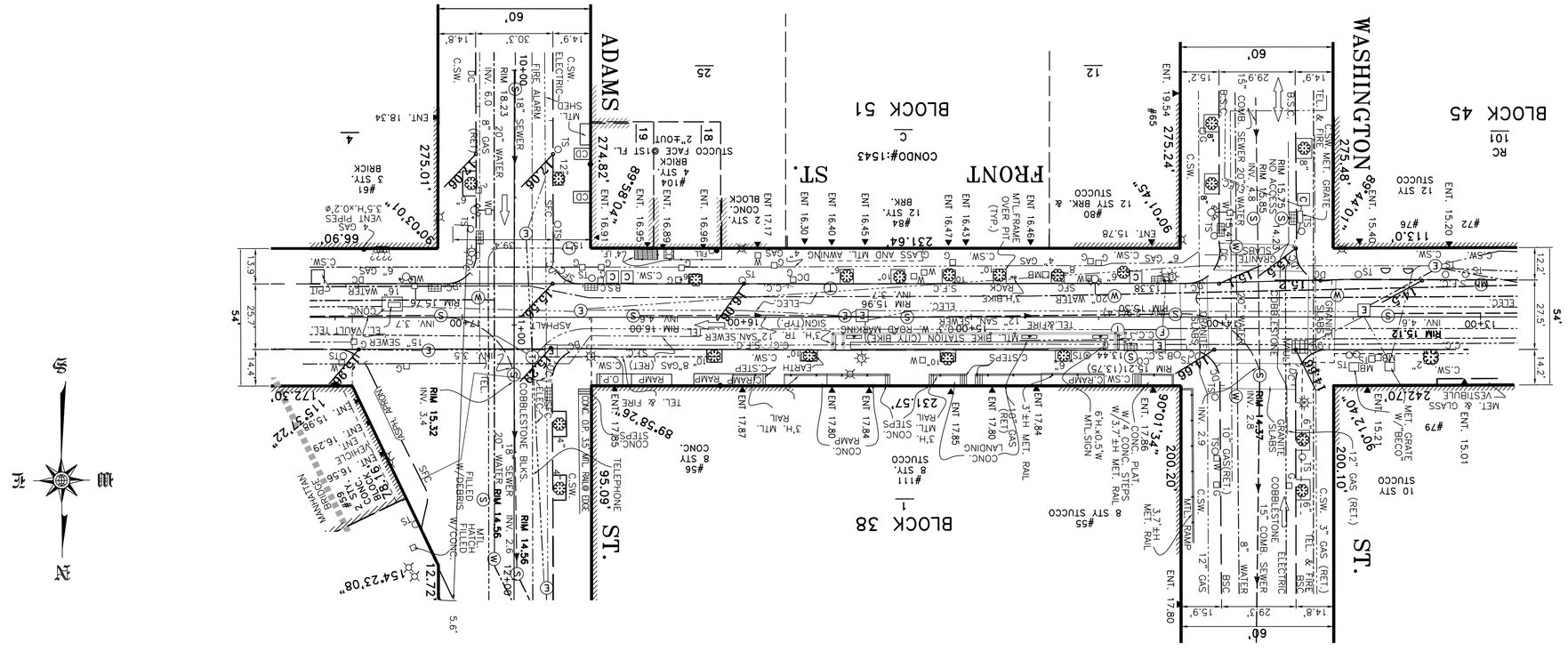
FRONT STREET FROM WASHINGTON STREET TO ADAMS STREET
BOROUGH OF BROOKLYN
UTILITY PLAN & PROFILE

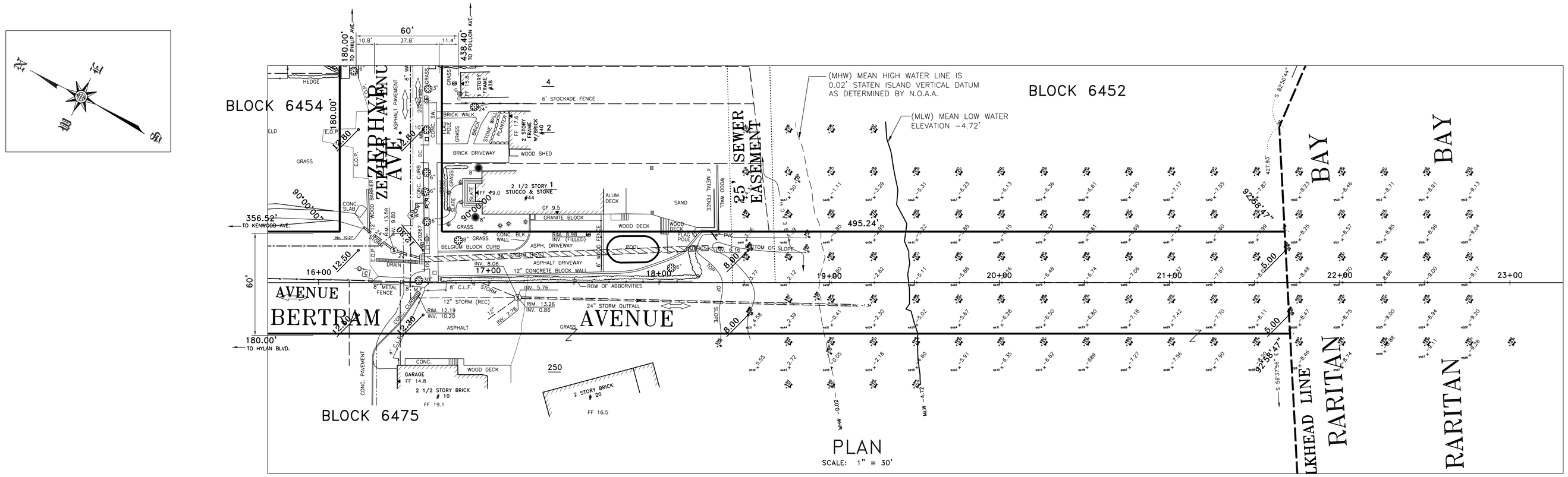
3881 H

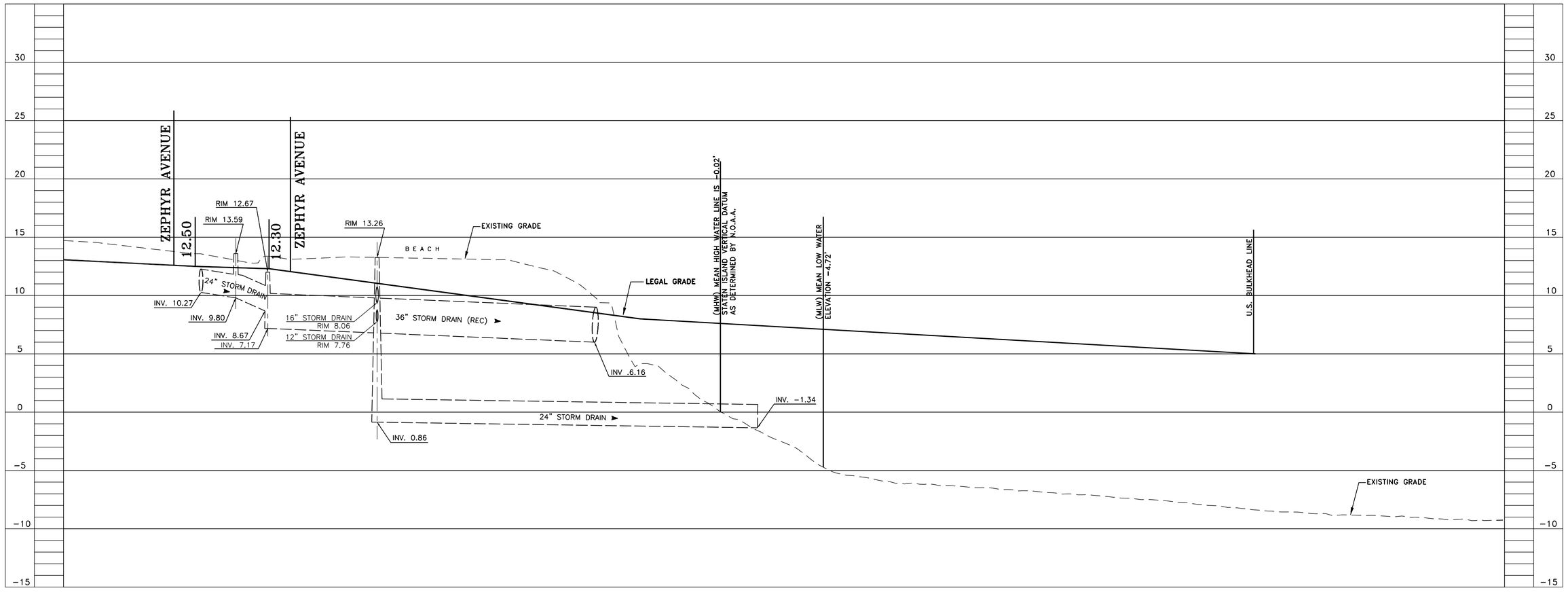
DATE: 11/05/14

SHEET OF 6U/6









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FIELD SURVEY WAS COMPLETED IN: JANUARY 01, 2015

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.

SEWER PROFILE ALONG BERTRAM AVENUE

SCALE: HORIZ: 1" = 30'
VERT: 1" = 6'

NOTE: ALL ELEVATIONS REFER TO THE RICHMOND HIGH WATER DATUM, WHICH IS 3.192 FEET ABOVE MEAN SEA LEVEL AT SANDY HOOK, NEW JERSEY AS ESTABLISHED BY THE U.S. COAST AND GEODETIC SURVEY.

NO.	DATE	DESCRIPTIONS	BY	APPR'D

REVISIONS

DESIGNED_____
DRAWN_____
TRACED_____
CHECKED_____

SCALE
AS SHOWN

CADD FILE_T1234AG5678_____

GROUP LEADER

_____ P.E.
ENGINEER IN CHARGE, IN HOUSE DESIGN

CITY OF NEW YORK
DEPARTMENT OF DESIGN AND CONSTRUCTION

SURVEY PREPARED BY:
ABC SURVEYING, INC
AVENUE OF THE AMERICAS
NEW YORK, NEW YORK 10001

PREPARED FOR:
DIVISION OF TECHNICAL SUPPORT
BUREAU OF SITE ENGINEERING
TOPOGRAPHICAL SECTION

PROJECT ID SE-XXX
FOR THE CONSTRUCTION OF
SANITARY & STORM SEWERS IN BERTRAM AVENUE
BOROUGH OF STATEN ISLAND
SOUNDINGS PLAN

1234 / A

DATE: 01/01/2015

SHEET XX OF XX

X / X

Environmental Protection

Carter H. Strickland, Jr.
Commissioner

James J. Roberts, P.E.
Deputy Commissioner
Bureau of Water &
Sewer Operations
jroberts@dep.nyc.gov

59-17 Junction Boulevard
Flushing, NY 11373

To: All Engineering and Architectural Consultants and City Agencies

From: James Garin, P.E.
Director of Engineering, BWSO

Subject: Engineering Directive
Local Law 96 of NYC Regarding Vertical Datum

Date: February 24, 2014

Local Law 96, approved by the Mayor on November 19, 2013, amends the New York City Administrative Code to establish the North American Vertical Datum of 1988 (NAVD 88) as the city datum. It mandates that all elevations provided in construction documents be referred to and identified as NAVD 88.

Therefore, the New York City Department of Environmental Protection (NYCDEP) is issuing the following protocol for applications and contract drawings submitted to this agency related but not limited to Site Connection Proposals, House Connection Proposals, Private Drains, Private Sewers, Drainage Proposals, and Contract Drawings; the datum conversion must be provided in the drawing submission legend from borough sewer datum to NAVD 88 and any elevation callouts related to the sewer system must reference both NAVD 88 and the local borough sewer datum (see Attachment A for example). Signed and sealed surveys submitted as part of the application package will be accepted in NAVD 88.

Elevations on Drainage Plans and Amended Drainage Plans should be exclusively in NAVD 88. A note correlating adjustments to the different data from NAVD 88 should be added to the plans. Plans already submitted for review to NYCDEP would be exempt from this change.

The datum change discussed above shall be effective immediately and should be included on any new projects submitted to this agency. If the applicant has already received preliminary discretionary approval, projects may be submitted in the reference data that was previously accepted. As is stated in Local Law 96, conversions to NAVD shall be performed by registered design professionals or surveyors.

Cc: James Roberts, P.E., Deputy Commissioner, BWSO
Edward Coleman, P.E., Assistant Commissioner
Jannine McColgan, P.E., Deputy Director of Engineering
Nicholas Barbaro, P.E., Chief, Division of Capital Planning
Paul Faublas, P.E., Chief, Division of Review & Construction Compliance
Irina Veytsman, P.E., Chief, Plan Review Section
Jake Ozyman, P.E., Chief, Drainage Review Section
Peter Gordon, P.E., Chief, Project Development Section
Prakashchandra Shah, P.E., Chief, Capital Drainage Section
James Luke, P.E., Chief, Permitting & Compliance Section
Selim Andrawis, P.E., E.I.C., Plan Review & Permitting Section
Ketki Patel, P.E., E.I.C., Drainage Review Section
John Weiburg, P.E., E.I.C., Plan Review Section
Samir V. Patel, P. E., E. I. C., Plan Review Section
Vincent Malveaux, E.I.C., Site Connection Proposals Section

DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER & SEWER OPERATIONS

Attachment 'A'

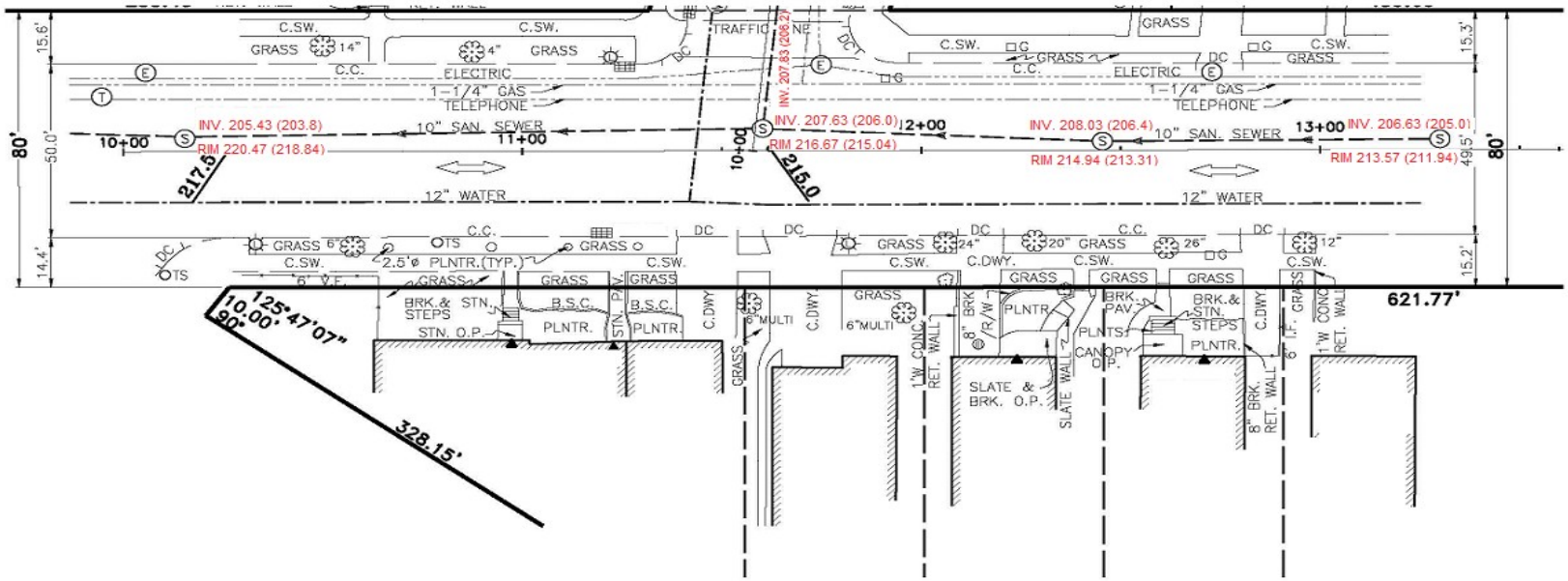
LEGEND

INVERT ELEVATION ---------- INV. NAVD 88 (BOROUGH SEWER DATUM)

RIM ELEVATION ---------- RIM NAVD 88 (BOROUGH SEWER DATUM)

NOTE: ALL ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), WHICH IS xxxx FEET* BELOW THE xxxx BOROUGH SEWER DATUM.

*This graphic and notes are shown to clearly demonstrate the procedure for submission.
This conversion varies and should be provided by a NYS Licensed Surveyor.



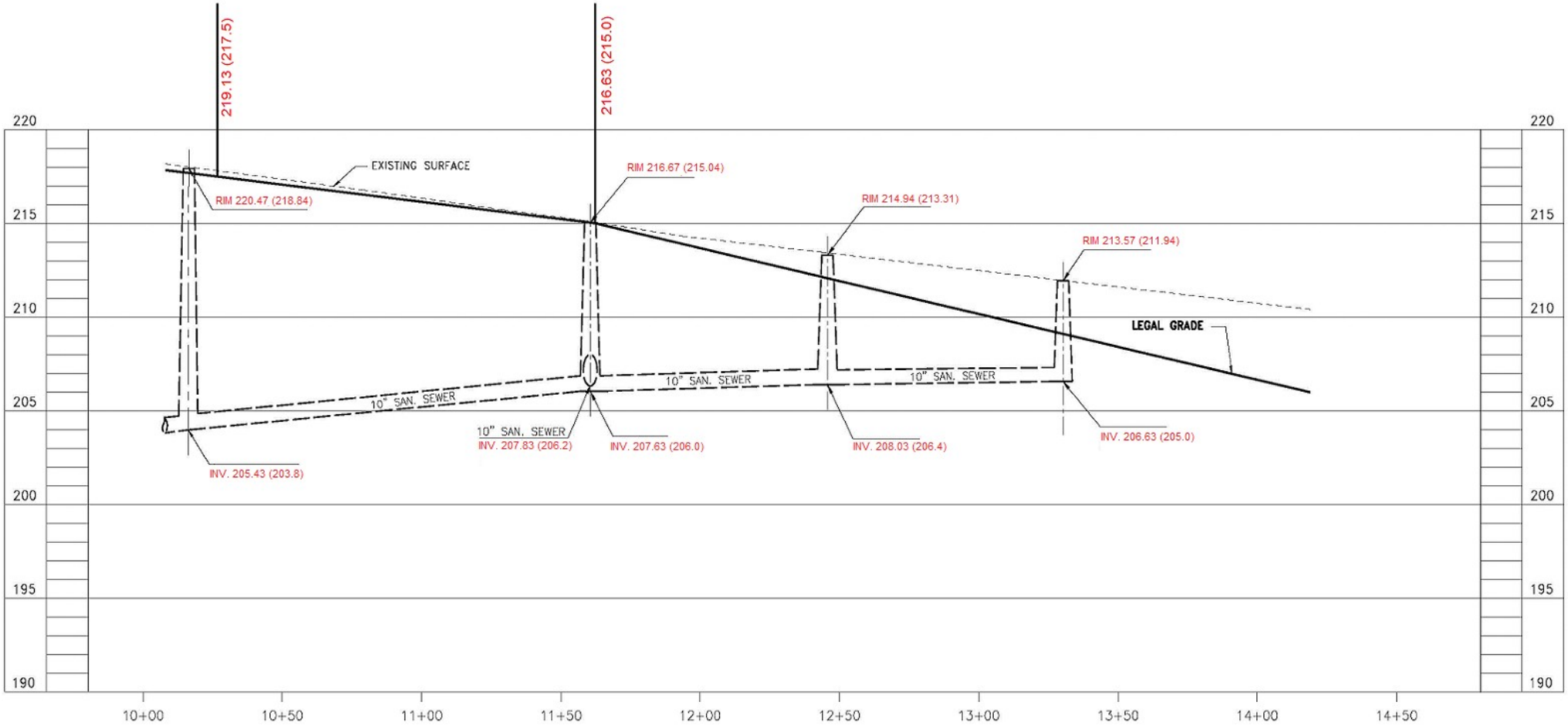
February 21, 2014

PLAN

NOT TO SCALE

DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER & SEWER OPERATIONS

Attachment 'A ' cont.



SEWER PROFILE

NOT TO SCALE

LEGEND

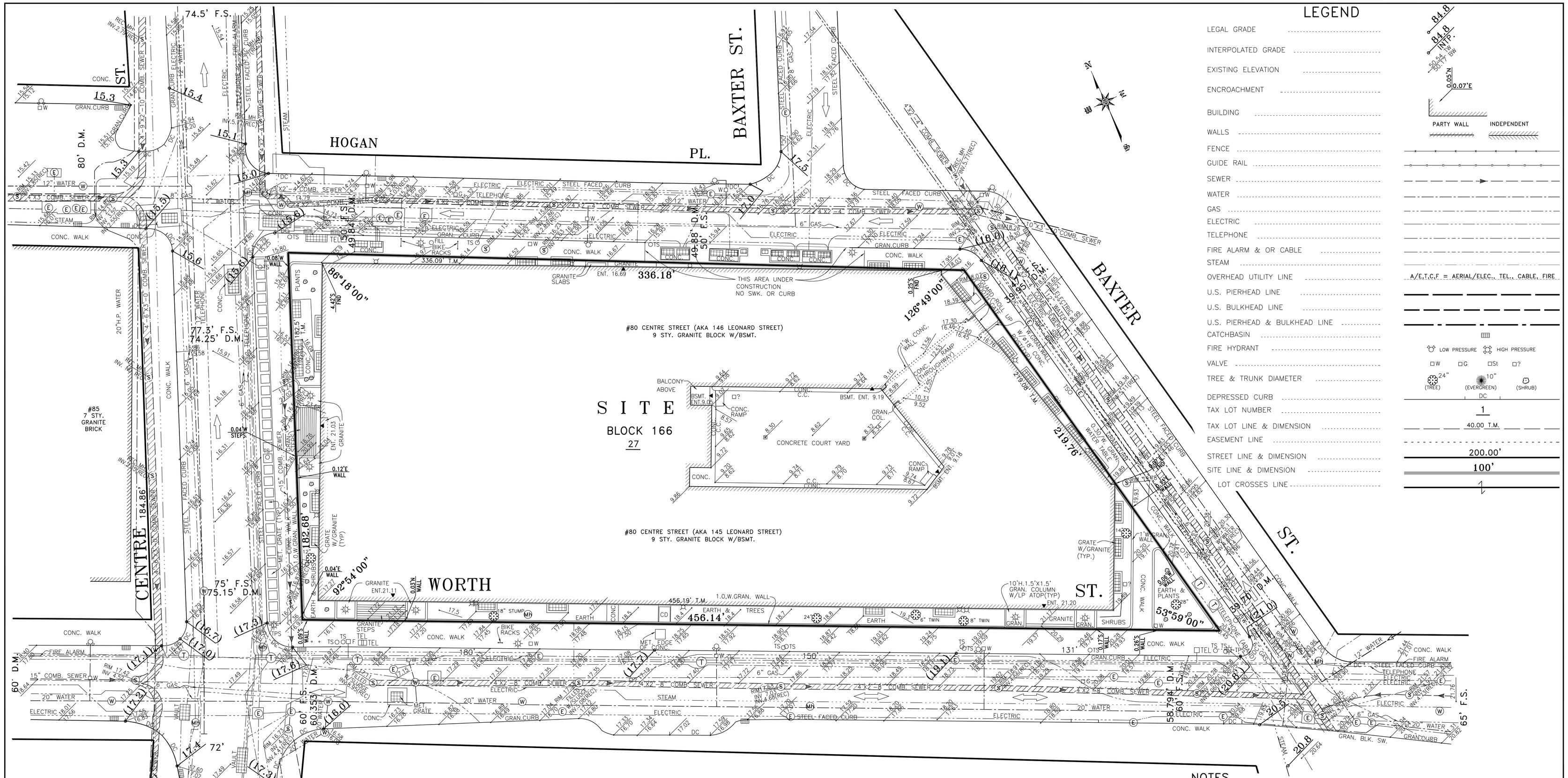
INVERT ELEVATION ..... INV. NAVD 88 (BOROUGH SEWER DATUM)

RIM ELEVATION ..... RIM NAVD 88 (BOROUGH SEWER DATUM)

February 21, 2014

NOTE: ALL ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), WHICH IS xxxx FEET* BELOW THE xxxx BOROUGH SEWER DATUM.

*This graphic and notes are shown to clearly demonstrate the procedure for submission. This conversion varies and should be provided by a NYS Licensed Surveyor.



LEGEND

LEGAL GRADE	84.8
INTERPOLATED GRADE	84.8 INTR.
EXISTING ELEVATION	50.54 INTR. 50.77 BM
ENCROACHMENT	0.05'N 0.07'E
BUILDING	
WALLS	PARTY WALL / INDEPENDENT
FENCE	
GUIDE RAIL	
SEWER	
WATER	
GAS	
ELECTRIC	
TELEPHONE	
FIRE ALARM & OR CABLE	
STEAM	
OVERHEAD UTILITY LINE	A/E,T,C,F = AERIAL/ELEC., TEL., CABLE, FIRE
U.S. PIERHEAD LINE	
U.S. BULKHEAD LINE	
U.S. PIERHEAD & BULKHEAD LINE	
CATCHBASIN	
FIRE HYDRANT	LOW PRESSURE / HIGH PRESSURE
VALVE	W / G / St / ?
TREE & TRUNK DIAMETER	24" (TREE) / 10" (EVERGREEN) / (SHRUB)
DEPRESSED CURB	DC
TAX LOT NUMBER	1
TAX LOT LINE & DIMENSION	40.00 T.M.
EASEMENT LINE	
STREET LINE & DIMENSION	200.00'
SITE LINE & DIMENSION	100'
LOT CROSSES LINE	

SYMBOLS

MANHOLES

- (S) SEWER
- (E) ELECTRIC
- (St) STEAM
- (Su) SUBWAY
- (MH) MANHOLE (NO ID)
- (S) FROM RECORD MAP
- (W) WATER
- (G) GAS
- (F) N.Y.F.D.
- (T) TELEPHONE
- [E] BECO or CTES
- [C] CABLE TV IRON
- F.S. FINAL SECTION MAP
- D.M. DYCKMAN MAP

- BIKE SHARE
- TS TRAFFIC SIGN
- PARKING METER
- COAL CHUTE
- VENT PIPE
- F FIRE ALARM BOX
- TRAFFIC CONTROL BOX
- MM MUNI METER
- MB MAILBOX
- TEL PAY PHONE
- EB ELECTRIC BOX
- FILL OIL FILL
- MONUMENT
- STANDPIPE
- SPRINKLER
- ROUND DRAIN
- SQUARE DRAIN
- SIGN
- BORING HOLE
- MONITORING WELL

- GUY WIRE
- T TRAFFIC SIGNAL
- PS PEDESTRIAN SIGNAL
- TPS TRAFFIC SIGNAL W/PEDESTRIAN SIGNAL
- WOOD UTILITY POLE
- F WOOD UTILITY POLE W/FIRE ALARM BOX
- PS WOOD UTILITY POLE W/PEDESTRIAN SIGNAL
- T WOOD UTILITY POLE W/TRAFFIC SIGNAL
- TPS WOOD UTILITY POLE W/TRAFFIC SIGNAL & PED. SIGNAL
- WOOD UTILITY POLE W/STREET LIGHT
- F WOOD UTILITY POLE W/STREET LIGHT & FIRE ALARM BOX
- PS WOOD UTILITY POLE W/STREET LIGHT & PEDESTRIAN SIGNAL
- T WOOD UTILITY POLE W/STREET LIGHT & TRAFFIC SIGNAL
- TPS WOOD UTILITY POLE W/STREET LIGHT, TRAF. SIGNAL & PED. SIGNAL
- METAL STREET LIGHT
- PS METAL STREET LIGHT W/PEDESTRIAN SIGNAL
- T METAL STREET LIGHT W/TRAFFIC SIGNAL
- TPS METAL STREET LIGHT W/TRAFFIC SIGNAL & PEDESTRIAN SIGNAL
- DIRECTION OF TRAFFIC

BENCHMARK TABLE

BENCHMARK	ELEVATION	DESCRIPTION
BM-VP428	21.07'	⊤ CUT ON NORTH FACE OF THE 7 STY CONC. BLOCK BLDG. #80 CENTRE ST. (10 HOGAN PL.) CUT IS 0.25' EAST OF THE ENTRANCE TO 10 HOGAN PL. AND 5'± ABOVE SIDEWALK.
BM-VP429	19.49'	⊼ CUT ON NORTHWEST CORNER OF #80 CENTRE ST. LOCATED AT THE SOUTHEAST CORNER OF CENTRE ST. & HOGAN PL. CUT IS 0.12'± FROM NORTHEAST CORNER & 3.84'± ABOVE CONC. SIDEWALK.
BM-VP430	21.28'	∟ CUT AT LOWER GRANITE BASE OF LIGHT LOCATED AT EAST SIDE OF ENTRANCE TO #155 WORTH ST. CUT IS 1.60'± ABOVE CONC. SIDEWALK.

NOTES

ALL ELEVATIONS SHOWN ON THIS SURVEY REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). TO CONVERT THIS DATUM TO MANHATTAN HIGHWAY, SUBTRACT 1.650 FEET FROM EACH ELEVATION.

ALL SUBSURFACE INFORMATION SHOWN IS TAKEN FROM VARIOUS MAPS AND IS NOT GUARANTEED FOR ACCURACY OR COMPLETENESS.

ALL DIMENSIONS SHOWN ARE IN THE U.S. STANDARD OF MEASUREMENT.

ALL ENCROACHMENTS SHOWN TO POLES OR TREES REFER TO THE CENTER OF SAME.

SITE COMPRISES: LOT 27 IN BLOCK 166
AS SHOWN ON THE "TAX MAP" OF THE CITY OF NEW YORK.

FIELD SURVEY COMPLETED: 05/06/2014

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ALL INFORMATION ON THIS MAP, EXCEPT THAT PERTAINING TO THE PROPERTY LINE, IS FOR REFERENCE ONLY.

THIS IS TO CERTIFY THAT THERE ARE NO VISIBLE STREAMS OR VISIBLE NATURAL WATER COURSES ACROSS THE PROPERTY AS SHOWN ON THIS SURVEY.

CITY OF NEW YORK
DEPARTMENT OF DESIGN + CONSTRUCTION
DIVISION OF SAFETY AND SITE SUPPORT

PW195SW2
4042 B
T4042B1G6472

BUREAU OF SITE ENGINEERING
TOPOGRAPHICAL SECTION

SIDEWALK REPLACEMENT & ADA IMPROVEMENT
80 CENTRE STREET
BOROUGH OF MANHATTAN

TOPOGRAPHICAL & PROPERTY LINE MAP

DATE 06/05/14 | 20' 0' 20' 40' | SHEET 1 OF 1

PARTY CHIEF V. PRIGOV
COMPUTATION CHECKED A. VOLOVICH
DRAFTED G. MAGIDENKO CHECKED W. OATMAN
FIELD EDITED

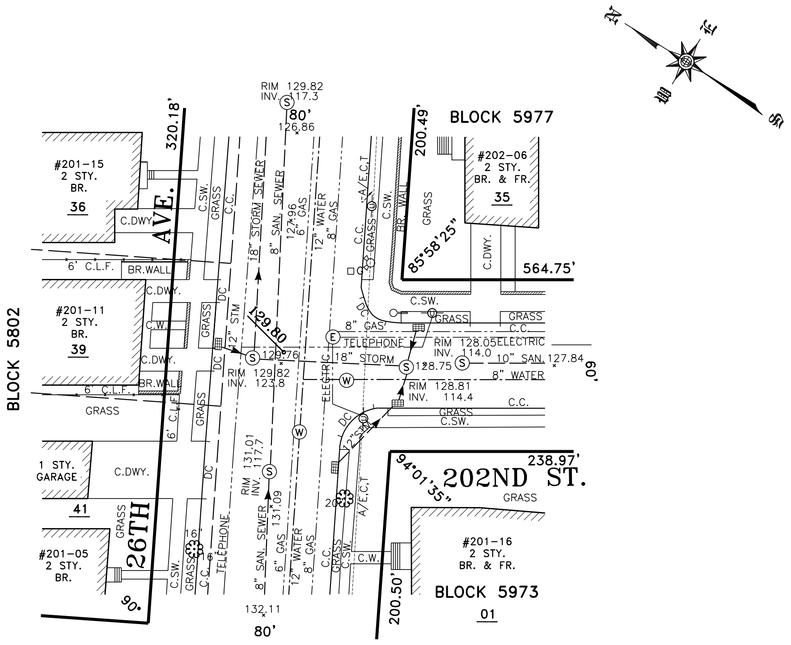
KURT KRAEMER, L.S.
CHIEF
TOPOGRAPHICAL SECTION

OLTON OLIVER, L.S.
DIRECTOR
BUREAU OF SITE ENGINEERING

MARK A. CANU
ASSOCIATE COMMISSIONER
DIVISION OF SAFETY & SITE SUPPORT

NO.	DATE	DESCRIPTIONS	BY	APPR'D

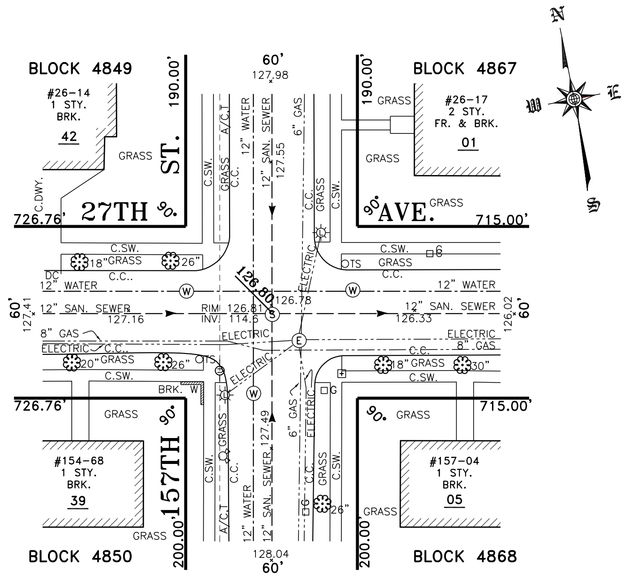
REVISIONS



PLAN SITE 10

SCALE: 1"=30'

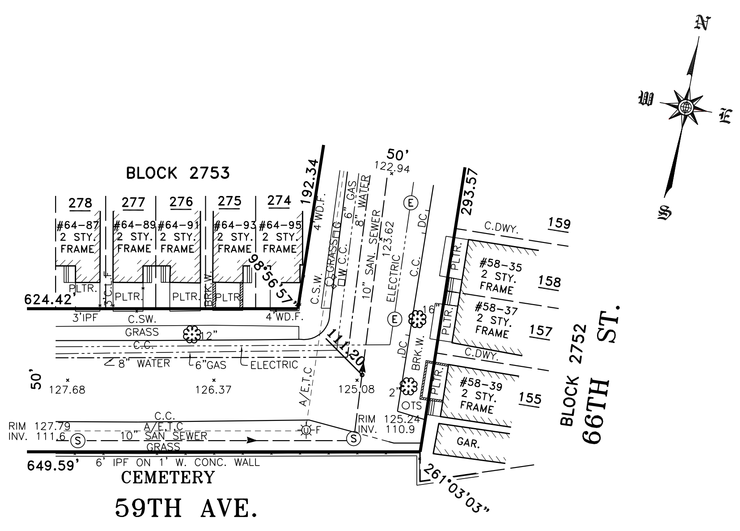
ALL ELEVATIONS REFER TO QUEENS HIGHWAY DATUM WHICH IS 2.725 FEET ABOVE MEAN SEA LEVEL AT SANDY HOOK, NEW JERSEY AS ESTABLISHED BY THE U.S. COAST AND GEODETIC SURVEY



PLAN SITE 11

SCALE: 1" = 30'

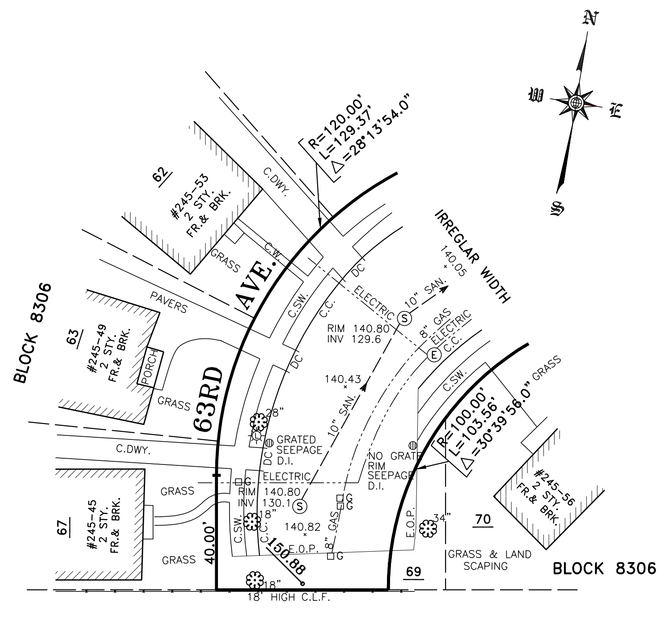
ALL ELEVATIONS REFER TO QUEENS HIGHWAY DATUM WHICH IS 2.725 FEET ABOVE MEAN SEA LEVEL AT SANDY HOOK, NEW JERSEY AS ESTABLISHED BY THE U.S. COAST AND GEODETIC SURVEY



PLAN SITE 12

SCALE 1"=30'

LEGEL GRADE ELEVATIONS REFER TO QUEENS HIGHWAY DATUM



PLAN SITE 13

SCALE: 1"=30'

LEGEL GRADE ELEVATIONS REFER TO QUEENS HIGHWAY DATUM

LEGEND

LEGAL GRADE	84.8
INTERPOLATED GRADE	84.8 INTP.
EXISTING ELEVATION	50.54 TC 50.17 BC
BUILDING	
WALLS	PARTY WALL / INDEPENDENT WALL
FENCE	
GUIDE RAIL	
SEWER	
SEWER (24" or Greater)	48" SEWER
WATER	
WATER (24" or Greater)	42" WATER
GAS	
ELECTRIC	
TELEPHONE/FIRE ALARM/CABLE	
STEAM	
AERIAL UTILITY LINE	A/E,T,C,F
U.S. PIERHEAD LINE	
U.S. BULKHEAD LINE	
U.S. PIERHEAD & BULKHEAD LINE	
CATCHBASIN	
FIRE HYDRANT	LOW PRESSURE / HIGH PRESSURE
VALVES	W G St ?
HEDGES	HEDGES
TREE & TRUNK DIAMETER	(TREE) 10" (EVERGREEN) (SHRUB)
DEPRESSED CURB	DC
TAX LOT NUMBER	1
TAX LOT LINE	
TAX BLOCK LINE	
EASEMENT LINE	
STREET LINE & DIMENSION	400.60'

ABBREVIATIONS

ABANDONED	ABDN.
AERIAL UTILITY LINE	A/E,T,C,F
•ELECTRICAL	E
•TELEPHONE	T
•CABLE	C
•FIRE	F
ALUMINUM	ALUM.
APARTMENT	APT.
ASPHALT	ASPH.
ASPHALT DRIVEWAY	A.DWY.
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.
BUILDING	BLDG.
CAST IRON	C.I.
CELLAR DOOR	CD
CENTER LINE	C.L.
CHAIN LINK FENCE	C.L.F.
CHAMBER	CH.
COLUMN	COL.
COMBINED	COMB.
COMMERCIAL	COMM.
CONCRETE	CONC.
CONCRETE CURB	C.C.
CONCRETE DRIVEWAY	C.DWY.
CONCRETE SIDEWALK	C.SW.
CONCRETE WALK	C.W.
CORNER	COR.
DIAMETER	DIA.
DOUBLE BARREL	D.B.
DRAWING	DWG.
DRIVEWAY	DWY.
DROP CURB	DC
EDGE OF PAVEMENT	E.O.P.
ELEVATION	ELEV.
EXISTING	EXIST.
FIRE ALARM	F.A.
FIRE DEPARTMENT	F.D.
FIRST FLOOR	FF
FRAME	FR.
GRANITE	GRAN.
GRANITE CURB	GRAN.C.
INACCESSIBLE	INACC.
INTERCEPTOR	INT.
INVERT (ELEVATION)	INV.
IRON FENCE	I.F.
IRREGULAR	IRR.
LENGTH	L
MANHOLE	MH
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
RECORD INFO.	REC.
REINFORCED CONCRETE PIPE	R.C.P.
RESIDENTIAL	RES.
RETAINING WALL	R.W.
RETIRED (UTILITY)	RET.
ROADWAY	RDWY.
SANITARY	SAN.
SEWER	SWR.
SIDEWALK	SWK.
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.
TYPICAL	TYP.
VACANT	VAC.
WOODEN FENCE	W.F.

MISC. ABBREVIATIONS

NORTH EAST	N.E.
NORTH WEST	N.W.
SOUTH EAST	S.E.
SOUTH WEST	S.W.
EAST SIDE	E/S
NORTH SIDE	N/S
SOUTH SIDE	S/S
WEST SIDE	W/S

SYMBOLS

MANHOLES

- (S) SEWER
- (E) ELECTRIC
- (St) STEAM
- (Su) SUBWAY
- (MH) MANHOLE (NO ID)
- (S) FROM RECORD MAP
- (W) WATER
- (G) GAS
- (F) N.Y.F.D.
- (T) TELEPHONE
- (E) BECO or CTES
- (C) CABLE TV IRON

- TS TRAFFIC SIGN
- PARKING METER
- CC COAL CHUTE
- VENT PIPE
- F FIRE CALL BOX
- TRAFFIC CONTROL BOX
- MB MAILBOX
- TEL PAY PHONE
- EB ELECTRIC BOX
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- MONUMENT
- STANDPIPE
- SPRINKLER
- ROUND DRAIN
- SQUARE DRAIN
- SIGN
- BORING HOLE
- MONITORING WELL
- DIRECTION OF TRAFFIC

- GUY WIRE
- T TRAFFIC SIGNAL
- PS PEDESTRIAN SIGNAL
- TPS TRAFFIC SIGNAL W/PEDESTRIAN SIGNAL
- WOOD UTILITY POLE
- F WOOD UTILITY POLE W/FIRE CALL BOX
- PS WOOD UTILITY POLE W/PEDESTRIAN SIGNAL
- T WOOD UTILITY POLE W/TRAFFIC SIGNAL
- TPS WOOD UTILITY POLE W/TRAFFIC SIGNAL & PED. SIGNAL
- WOOD UTILITY POLE W/STREET LIGHT
- F WOOD UTILITY POLE W/STREET LIGHT & FIRE CALL BOX
- PS WOOD UTILITY POLE W/STREET LIGHT & PEDESTRIAN SIGNAL
- T WOOD UTILITY POLE W/STREET LIGHT & TRAFFIC SIGNAL
- TPS WOOD UTILITY POLE W/STREET LIGHT, TRAF. SIGNAL & PED. SIGNAL
- METAL STREET LIGHT
- PS METAL STREET LIGHT W/PEDESTRIAN SIGNAL
- T METAL STREET LIGHT W/TRAFFIC SIGNAL
- TPS METAL STREET LIGHT W/TRAFFIC SIGNAL & PEDESTRIAN SIGNAL

NOTES

ALL INFORMATION ON THIS MAP THAT PERTAINS TO THE PROPERTY LINE IS FOR REFERENCE ONLY.

"ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY MARKED WITH AN ORIGINAL OF THE LAND SURVEYOR'S BLUE INKED OR EMBOSSED SEAL SHALL BE CONSIDERED TO BE A TRUE VALID COPY"

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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.

NO.	DATE	DESCRIPTIONS	BY	APPR'D

REVISIONS

DESIGNED_____
DRAWN_____
TRACED_____
CHECKED_____

SCALE AS SHOWN

CADD FILE T1234A1G5678

GROUP LEADER

P.E.
ENGINEER IN CHARGE, IN HOUSE DESIGN

CITY OF NEW YORK
DEPARTMENT OF DESIGN AND CONSTRUCTION

SURVEY PREPARED BY:
CONSULTANT NAME
CONSULTANT ADDRESS 1
CONSULTANT ADDRESS 2

PREPARED FOR:
DIVISION OF TECHNICAL SUPPORT
BUREAU OF SITE ENGINEERING
TOPOGRAPHICAL SECTION

ABC-1234
FOR THE CONSTRUCTION OF
PROJECT NAME
X ST. FROM X AVE TO X AVE.
BOROUGH OF
CATCH BASIN/SEEPAGE BASIN LOCATION PLAN

1234 A

DATE: 01/01/15

SHEET OF 1/1