

GROUND **PROFILE** PROVIDE APPROPRIATE TRANSITION BETWEEN STABILIZED CONSTRUCTION

TABLE 29-1: LENGTHS OF CONSTRUCTION EXITS ON SLOPING ROADBEDS

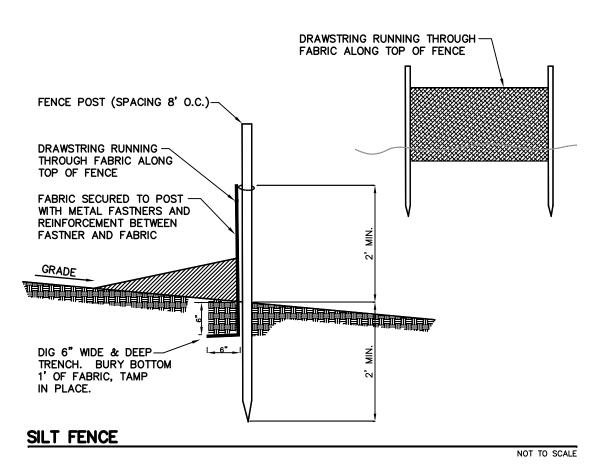
PERCENT SLOPE OF ROADWAY	LENGTH OF STONE REQUIRED		
	COARSE GRAINED SOILS	FINE GRAINED SOILS	
0 TO 2%	50 FT	100 FT	
2 TO 5%	100 FT	200 FT	
> 5%	ENTIRE SURFACE STABILIZED WITH FABC BASE COURSE		

ENTRANCE AND PUBLIC R.O.W.

#### STABILIZED CONSTRUCTION ACCESS

6" WATER MAIN

BC 114.38



# **DUST CONTROL NOTES**

# CONDITION WHERE PRACTICE APPLIES

THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO DUST BLOWING AND MOVEMENT WHERE ON-SITE AND OFF-SITE DAMAGE IS LIKELY WITHOUT TREATMENT. CONSULT WITH THE LOCAL MUNICIPAL ORDINANCES ON ANY

# PLANNING CRITERIA

THE FOLLOWING METHODS SHOULD BE CONSIDERED FOR CONTROLLING DUST: MULCHES - SEE STANDARD FOR STABILIZATION WITH MULCHES ONLY (PG. 5-1) <u>VEGETATIVE COVER</u> - SEE STANDARD FOR TEMPORARY VEGETATIVE COVER (PG. 7-1), PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION (PG. 4-1), AND PERMANENT STABILIZATION WITH SOD (PG. 6-1)

<u>SPRAY-ON ADHESIVES</u> - ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS.

# TABLE 16-1: DUST CONTROL MATERIALS

	TABLE 10-1. DOST CONTROL MATERIALS				
	MATERIAL	WATER DILUTION	TYPE OF NOZZLE	APPLY GALLONS/ACRE	
	ANIONIC ASPHALT EMULSION	7:1	COARSE SPRAY	1200	
	LATEX EMULSION	12.5:1	FINE SPRAY	235	
	RESIN IN WATER	4:1	FINE SPRAY	300	
	POLYACRYLAMIDE - SPRAY ON POLYACRYLAMIDE - DRY SPREAD	APPLY ACCORDING TO MANUFACTURER'S INSTRUCTIONS. MAY ALSO BE USED AS AN ADDITIVE TO SEDIMENT BASINS TO FLOCCULATE AND PRECIPITATE SUSPENDED COLLOIDS. SEE PG 26-			
	ACIDULATED SOY BEAN SOAP STICK	NONE	COARSE SPRAY	1200	

TILLAGE - TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS A TEMPORARY EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS, BEGIN PLOWING ON WINDWARD SIDE OF SITE, CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART. AND SPRING-TOOTHED HARROWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.

SPRINKLING - SITE IS SPRINKLED UNTIL THE SURFACE IS WET.

BARRIERS - SOLID BOARD FENCES, SNOW FENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY, AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING.

CALCIUM CHLORIDE - SHALL BE IN THE FORM OF LOOSE, DRY GRANULES OF FLAKES FINE ENOUGH TO FEED THROUGH COMMONLY USED SPREADERS AT A RATE THAT WILL KEEP SURFACE MOIST BUT NOT CAUSE POLLUTION OR PLANT DAMAGE. IF USED ON STEEPER SLOPES, THEN USE OTHER PRACTICES TO PREVENT WASHING INTO STREAMS, OR ACCUMULATION AROUND PLANTS.

STONE - COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

REMOVE SILT FENCE/LIMIT OF DISTURBANCE (TYP)-(7,471 SF) REMOVE TWO STORY STABILIZED CONSTRUCTION ACCESSS (25'x50') COMMERCIAL RNITDING WND -FXTENDS FRAME DWELLING 0.28' NORTH LUMINUM/BRICK REMOVE <u>ST'. NO. 216</u> 0.53' F.F. ELEV. 118.23 - SOUTH + 11 14'→ REMOVE — 0.13' NORTH WALL 0.3' WEST CONCRETE WALKWAY 4 DROP CURB BC 114.06 REPLACE CURB REPLACE CURB & SIDEWALK & SIDEWALK 36" TELEPHONE CONDUIT (AS PER MARKOUT) SEWER MAIN DI\$TURBANCE -(TYP)

BC 114.63

TC 114.96

24" ELECTRIC CONDUIT (AS PER MARK OUT) +

₩V

#### HUDSON-ESSEX-PASSAIC COUNTIES SOIL EROSION AND SEDIMENT CONTROL NOTES

- 1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON THIS PLAN WILL BE CONSTRUCTED IN ACCORDANCE WITH THE "NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL" 7TH EDITION, (LAST REVISED DECEMBER 2017). THESE MEASURES WILL BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE OR IN THÉIR PROPER
- SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED. 2. ALL SOIL TO BE EXPOSED OR STOCKPILED FOR A PERIOD OF GREATER THAN 14 DAYS, AND NOT UNDER ACTIVE CONSTRUCTION, WILL BE TEMPORARILY SEEDED AND HAY MULCHED OR OTHERWISE PROVIDED WITH VEGETATIVE COVER. THIS TEMPORARY COVER SHALL BE
- MAINTAINED UNTIL SUCH TIME WHEREBY PERMANENT RESTABILIZATION IS ESTABLISHED. 3. SEEDING DATES: THE FOLLOWING SEEDING DATES ARE BEST RECOMMENDED TO ESTABLISH PERMANENT VEGETATIVE COVER WITHIN MOST LOCATIONS IN THE HEPSCD: SPRING - MARCH 1 - MAY 15 FALL - AUGUST 15 - OCTOBER 1
- 4. SEDIMENT FENCES ARE TO BE PROPERLY TRENCHED AND MAINTAINED UNTIL PERMANENT VEGETATIVE COVER IS ESTABLISHED.
- 5. ALL STORM DRAINAGE INLETS SHALL BE PROTECTED BY ONE OF THE PRACTICES ACCEPTED IN THE STANDARDS, AND PROTECTION SHALL REMAIN UNTIL PERMANENT STABILIZATION HAS BEEN ESTABLISHED. STORM DRAINAGE OUTLET POINTS SHALL BE PROTECTED AS REQUIRED BEFORE THEY BECOME FUNCTIONAL.
- 6. MULCH MATERIALS SHALL BE UN-ROTTED SMALL GRAIN STRAW APPLIED AT THE RATE OF 70-90 POUNDS PER 1,000 SQUARE FEET (1.5-2.0 TONS/ACRE) AND ANCHORED WITH A MULCH ANCHORING TOOL, LIQUID MULCH BINDERS, OR NETTING TIE DOWN. OTHER SUITABLE
- MATERIALS MAY BE USED IF APPROVED BY THE SOIL CONSERVATION DISTRICT. 7. ALL EROSION CONTROL DEVICES SHALL BE PERIODICALLY INSPECTED, MAINTAINED AND CORRECTED BY THE CONTRACTOR. ANY DAMAGE INCURRED BY EROSION SHALL BE
- 8. THE HUDSON-ESSEX-PASSIAC SOIL CONSERVATION DISTRICT WILL BE NOTIFIED IN WRITING AT LEAST 48 HOURS PRIOR TO ANY SOIL DISTURBING ACTIVITIES. FAX - (862) 333-4507 EMAIL - <u>INFORMATION@HEPSCD.ORG</u>
- 9. THE APPLICANT MUST OBTAIN A DISTRICT ISSUED REPORT OF COMPLIANCE PRIOR TO APPLYING FOR THE CERTIFICATE OF OCCUPANCY OR TEMPORARY CERTIFICATE OF OCCUPANCY FROM THE RESPECTIVE MUNICIPALITY, NJ DCA OR ANY OTHER CONTROLLING AGENCY. CONTACT THE DISTRICT AT 862—333—4505 TO REQUEST A FINAL INSPECTION, GIVING ADVANCED NOTICE UPON COMPLETION OF THE RESTABILIZATION MEASURES. A PERFORMANCE DEPOSIT MAY BE POSTED WITH THE DISTRICT WHEN WINTER WEATHER OR SNOW COVER PROHIBITS THE PROPER APPLICATION OF SEED, MULCH, FERTILIZER OR
- 10. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES. DO NOT UTILIZE A FIRE OR GARDEN HOSE TO CLEAN ROADS UNLESS THE RUNOFF IS DIRECTED TO A PROPERLY DESIGNED AND FUNCTIONING SEDIMENT BASIN. WATER PUMPED OUT OF THE EXCAVATED AREAS CONTAINS SEDIMENTS THAT MUST BE REMOVED PRIOR TO DISCHARGING TO RECEIVING BODIES OF WATER USING THE REMOVABLE PUMPING STATIONS, SUMP PITS, PORTABLE SEDIMENTATION TANKS AND/OR SILT CONTROL BAGS.
- 11. ALL SURFACES HAVING LAWN OR LANDSCAPING AS FINAL COVER ARE TO BE PROVIDED TOPSOIL TO RE-SEEDING, SODDING OR PLANTING. A DEPTH OF 5 INCHES (UNSETTLED) IS REQUIRED, AS PER THE STANDARDS FOR TOPSOILING AND LAND GRADING, LAST REVISED
- 12. ALL PLAN REVISIONS MUST BE SUBMITTED TO THE DISTRICT FOR PROPER REVIEW AND
- 13. A CRUSHED STONE WHEEL CLEANING TRACKING-PAD IS TO BE INSTALLED AT ALL SITE EXITS USING 2 1/2-1" CRUSHED ANGULAR STONE (ASTM 2 OR 3) TO A MINIMUM LENGTH OF AT LEAST 50 FEET AND A MINIMUM DEPTH OF 6". ALL DRIVEWAYS MUST BE PROVIDED WITH CRUSHED STONE UNTIL PAVING IS COMPLETE.
- 14. STEEP SLOPES INCURRING DISTURBANCE MAY REQUIRE ADDITIONAL STABILIZATION MEASURES. THESE "SPECIAL" MEASURES SHALL BE DESIGNED BY THE APPLICANT'S ENGINEER AND BE APPROVED BY THE SOIL CONSERVATION DISTRICT.
- 15. THE HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED, IN WRITING, FOR THE SALE OF ANY PORTION OF THE PROJECT OR FOR THE SALE OF INDIVIDUAL LOTS. NEW OWNERS' INFORMATION SHALL BE PROVIDED. ADDITIONAL MEASURES DEEMED NECESSARY BY DISTRICT OFFICIALS SHALL BE IMPLEMENTED AS CONDITIONS

### SOIL RESTORATION NOTE

1. AS PER SECTION 19 OF THE "NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL" 7TH EDITION, (LAST REVISED DECEMBER 2017), THIS PROJECT IS EXEMPT FROM SOIL RESTORATION SINCE THE SITE IS PREVIOUSLY DEVELOPED, CONTAINS LESS THAN 500 SF OF CONTIGUOUS LANDSCAPE AREA AND IS LOCATED WITHIN THE METROPOLITAN PLANNING AREA.

# PRE CONSTRUCTION NOTES:

- 1. UTILITY LOCATIONS SHOWN ON PLANS ARE FOR REFERENCE ONLY AND MUST BE VERIFIED IN FIELD PRIOR TO CONSTRUCTION. ON SITE UTILITIES LOCATIONS ARE BASED ON FIELD OBSERVATION AND RECORD DRAWINGS. ACTUAL CONDITIONS MAY VARY.
- 2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL:
- A) THOROUGHLY FAMILIARIZE HIMSELF WITH THE SITE CONDITIONS: B) REVIEW THE SURVEY & SITE PLANS FOR INCONSISTENCIES WITH
- ACTUAL CONDITIONS: C) VERIFY FINISHED FLOOR ELEVATIONS OF EXIST. STRUCTURES TO
- REMAIN WITH RESPECT TO STREET ELEVATIONS SHOWN: D) VERIFY LOCATION, DEPTH & ELEVATION OF UTILITY CONNECTIONS. E) CONFIRM SIZE & MATERIAL OF ALL PROPOSED & EXISTING WATER & SEWER UTILITIES.
- 3. STAKE OUT NEW BUILDING & VERIFY ITS LOCATION TO PROPERTY LINES WITH RESPECT TO DIMENSIONS SHOWN ON PLANS.
- 4. MARK LIMIT OF SOIL DISTURBANCE & TAG ALL TREES TO BE REMOVED
- 5. REVIEW ALL LOCAL, COUNTY & STATE PERMIT REQUIREMENTS FOR THE PROJECT
- 6. ALL DEMOLITION MATERIAL AND DEBRIS AND ALL ITEMS REMOVED FROM THE PROPERTY AND THE ADJACENT PUBLIC AREAS, SHALL BE DISPOSED OUTSIDE OF THE CITY LIMITS OF JERSEY CITY IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE CITY'S ENVIRONMENTAL COMMISSION AND IN ACCORDANCE WITH THE REGULATIONS AND LAWS

# SEQUENCE OF CONSTRUCTION

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- INSTALL SILT FENCE. DEMOLISH EXISTING STRUCTURES. INSTALL STABILIZED CONSTRUCTION ENTRANCE. ROUGH GRADE SITE. INSTALL BUILDING FOUNDATION. INSTALL UNDERGROUND UTILITIES. CONSTRUCT BUILDING. INSTALL DRIVEWAYS, CONCRETE CURBS & SIDEWALKS. FINISH GRADING OF THE SITE. 10. INSTALL LANDSCAPING.
- REMOVE SOIL EROSION CONTROL DEVICES. 12. CONSTRUCTION TO LAST APPROXIMATELY 3-6 MONTHS.

<u>TIME</u> 1-2 DAYS 2 WEEKS 1 DAY 2 WEEKS 2-3 WEEKS 2 WEEKS **3 WEEKS** 2 WEEKS 1 WEEK 1 WEEK 1 DAY

BLOCK 6001, LOT 8 216 PALISADE AVENUE CITY OF JERSEY CITY

> 214-216 PALISADE AVE LL 222 DUNCAN AVENUE

24GA28068900 / 21MH00002800 M.B.L J.A. 1"=10' 20-270 10-26-22

**GRAPHIC SCALE** (IN FEET) 1 inch = 10 ft.

CALISTO J. BERTIN, P.E. PROFESSIONAL ENGINEER CT LIC. NO. 12950 NJ LIC. NO. 2884: MA LIC. NO. 40595 NY LIC. NO. 60022

NH LIC. NO. 9368 RI LIC. NO. 6694

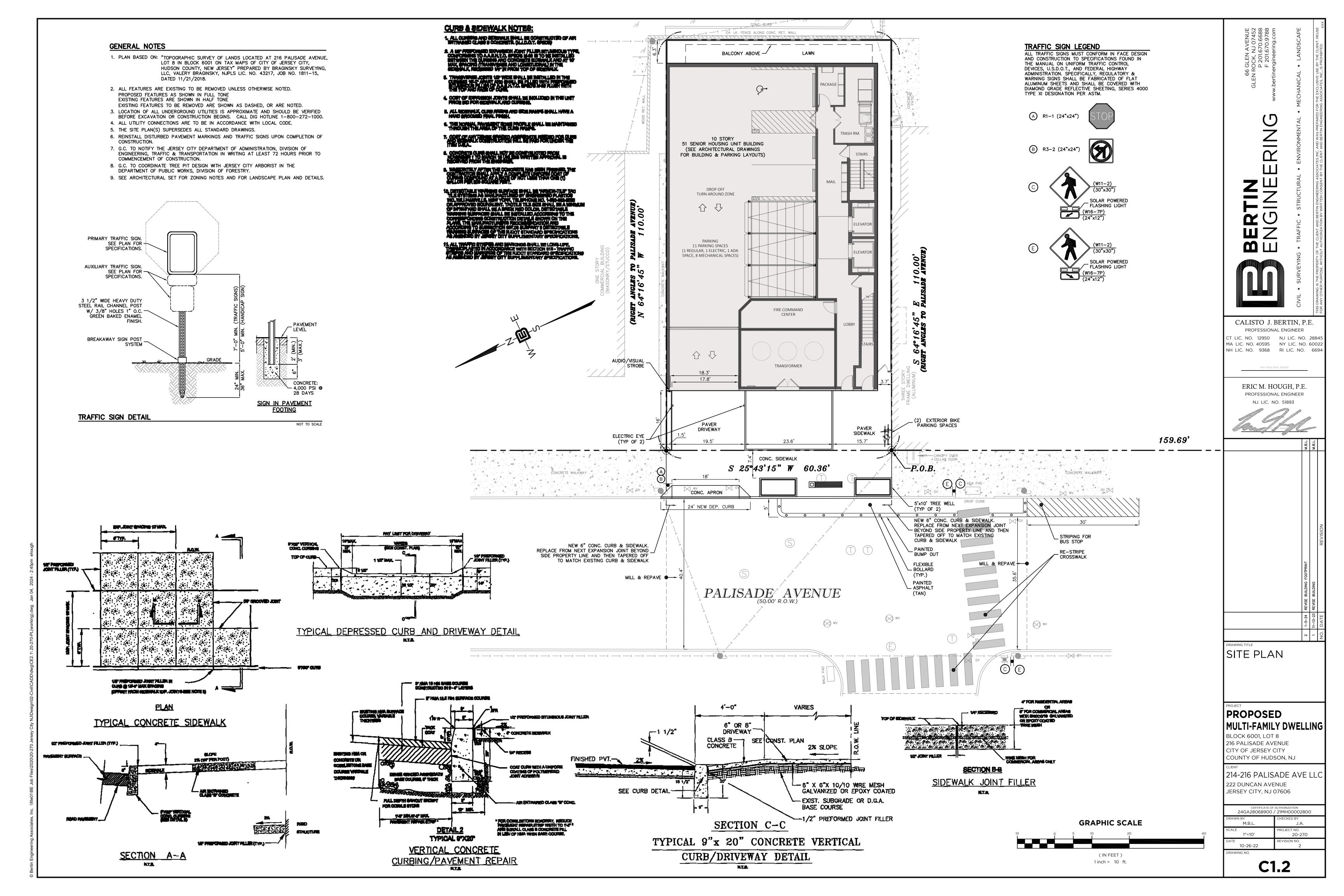
ERIC M. HOUGH, P.E PROFESSIONAL ENGINEER

**DEMOLITION &** SOIL EROSION CONTROL PLAN

PROPOSED MULTI-FAMILY DWELLING

COUNTY OF HUDSON, NJ

JERSEY CITY, NJ 07606



PLANS AND ANY ADDITIONAL INFORMATION AS APPLICABLE MUST BE PRESENTED TO THE JCMUA FOR REVIEW AND COMMENTS FOR ALL PROPOSED SANITARY AND STORM SEWER CONNECTIONS TO THE JCMUA SEWER SYSTEM OR THAT ARE PROPOSED IN JERSEY CITY. REPAIRS TO EXISTING SERVICES DO NOT REQUIRE THE REVIEW AND APPROVAL OF THE JCMUA. ALL PLANS MUST BI SIGNED AND SEALED BY A PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT LICENSED TO PRACTICE IN NEW JERSEY AND SUBMITTED TO THE JCMUA'S SEWER ENGINEERING OFFICE, 555 ROUTE 440, JERSEY CITY, NJ 07305 FOR APPROVAL.

THE FOLLOWING TECHNICAL REQUIREMENTS SHALL BE ADDRESSED IN PREPARATION OF SITE/UTILITY

1.) BEDDING AND BACKFILL MATERIAL SHALL COMPLY WITH THE REQUIREMENTS OF THE NJDOT'S STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, AND THE DESIGN AND CONSTRUCTION OF URBAN STORMWATER MANAGEMENT SYSTEMS, ASCE MANUALS AND REPORTS OF ENGINEERING PRACTICE NO. 77, 1993, AS APPLICABLE.

2.) ALL SEWER SERVICE CONNECTIONS 6-INCHES IN SIZE OR SMALLER MUST BE MADE DIRECTLY TO THE SEWER MAIN AND ALL CONNECTIONS 8-INCHES IN SIZE OR LARGER MUST BE MADE TO A MANHOLE. WHERE A CONNECTION TO A MANHOLE IS REQUIRED, MANHOLE BENCH AND CHANNEL

3.) THE JCMUA REQUIRES THAT SEWER SERVICE CONNECTIONS TO BE RE-USED BE TELEVISED TO VÉRIFY THEIR INTEGRITY AND THAT THE PIPE IS FREE FROM ANY DEFECTS.

4.) EACH BUILDING CONNECTION REQUIRES A CURB CLEANOUT (REFER TO ATTACHED DETAIL DRAWINGS). T-WYE CLEANOUTS WHICH ENABLE CLEANING IN BOTH DIRECTIONS SHOULD BE INSTALLED ON BOTH THE STORM AND SANITARY LATERAL.

5.) PROPOSED SEWER LATERAL CONNECTION TO JCMUA'S SEWER MAIN SHALL BE MADE ABOVE HORIZONTAL CENTER LINE OF PIPE (REFER TO ATTACHED SEWER SERVICE CONNECTION DETAILS).

6.) THE SIZE, MATERIAL, DEPTH, CONDITION, DIRECTION OF FLOW AND ANY OTHER RELEVANT CÓNDITIONS OF THE EXISTING JCMUA SEWER TO WHICH YOU PLAN TO CONNECT MUST BE FIELD VERIFIED BY DEVELOPER TO DETERMINE IF SAID CONNECTION IS PHYSICALLY POSSIBLE AND PRACTICAL. IN ADDITION. MANHOLE INVERTS AND RIM ELEVATION MUST BE SHOWN ON PLANS. THIS VERIFICATION IS TO BE INCLUDED ON THE PLANS FOR THE PROJECT.

7.) CIRCULAR HOLE SAWS WHICH ARE APPROXIMATELY SIZED OR HAND DRILLS MUST BE USED TO MAKE THE OPENINGS IN THE EXISTING SEWER TO RECEIVE THE LATERALS. JACKHAMMERS, SLEDGEHAMMERS AND OTHER UNSUITABLE TOOLS OR MACHINERY WHICH MAY DAMAGE THE JCMUA'S SEWER MAIN ARE NOT ALLOWED TO BE USED TO MAKE THE LATERAL OPENINGS. ALL DEBRIS MUST BE REMOVED AND NOT ALLOWED TO FALL INTO PIPE.

8.) A DETAIL OF ANY PROPOSED MANHOLE OR CATCH BASIN SHOWING ALL DIMENSIONS IN ADDITION TO RIM, GRATE AND INVERT ELEVATIONS OF THE STRUCTURE AND ALL PIPES CONNECTED TO THE STRUCTURE MUST BE SHOWN ON PLANS. REFER TO JCMUA STANDARD DETAIL DRAWINGS FOR MANHOLES AND CATCH BASINS.

9.) PROPOSED MANHOLES CONSTRUCTED IN THE PUBLIC R.O.W. ON EXISTING OR PROPOSED JCMUA SEWERS SHALL BE FURNISHED WITH CONCENTRIC MANHOLE COVERS AS MANUFACTURED BY CAMPBELL FOUNDRY CO., PATTERN #4428 OR EQUAL WITH OUTSIDE COVER DIAMETER OF 31-3/4 INCHES AND INSIDE COVER DIAMETER OF 24 INCHES. THE LETTERS "JCMUA" AND "SEWER" SHALL BE CAST IN THE INSIDE COVER. MANHOLE FRAMES SHALL BE CAMPBELL FOUNDRY CO. PATTERN #4428 (FOR 30-INCH OPENING) OR #1206 (FOR 41-INCH OPENING) OR EQUAL FURNISHED WITH A PATTERN #4428 CONCENTRIC COVER AS SPECIFIED IN THE PRECEDING PARAGRAPH. REFER TO JCMUA'S STANDARD DETAIL FOR MANHOLE FRAME AND COVERS.

10.) STORM INLETS WHICH ARE CONNECTED DIRECTLY TO JCMUA COMBINED SEWERS MUST BE FURNISHED WITH A SUMP AND TRAP AS PER JCMUA STANDARD DETAILS.

11.) THE JCMUA HAS A COMBINED SEWER SYSTEM WHICH SURCHARGES DURING WET WEATHER PERIODS RESULTING IN POSSIBLE SEWAGE BACK-UPS THROUGH PLUMBING FIXTURES (SINKS, TOILETS, FLOOR DRAINS, ETC.) BELOW STREET LEVEL. THIS POSSIBILITY MUST BE ADDRESSED DURING THE DESIGN/CONSTRUCTION PHASE.

12.) A DROP MANHOLE CONNECTION SHALL BE USED WHERE THERE IS A DIFFERENCE IN ELEVATION OF TWO (2) FEET OR GREATER BETWEEN THE INVERT OF A SANITARY OR COMBINED INLET PIPE TO MANHOLE AND THE CROWN OF THE OUTLET PIPE FROM MANHOLE. REFER TO ATTACHED JCMUA'S STANDARD DETAIL FOR DROP MANHOLE CONNECTION WHICH MUST BE SHOWN ON SITE PLAN IF REQUIRED.

13.) TEST PITS MUST BE PERFORMED AT THE DEVELOPER'S EXPENSE DURING THE DESIGN PHASE OF THÉ PROJECT TO ENSURE THAT PROPOSED SEWERS AND SEWER SERVICES MAY BE CONSTRUCTED AS PROPOSED WITHOUT CONFLICTING WITH OTHER UNDERGROUND UTILITIES OR STRUCTURES.

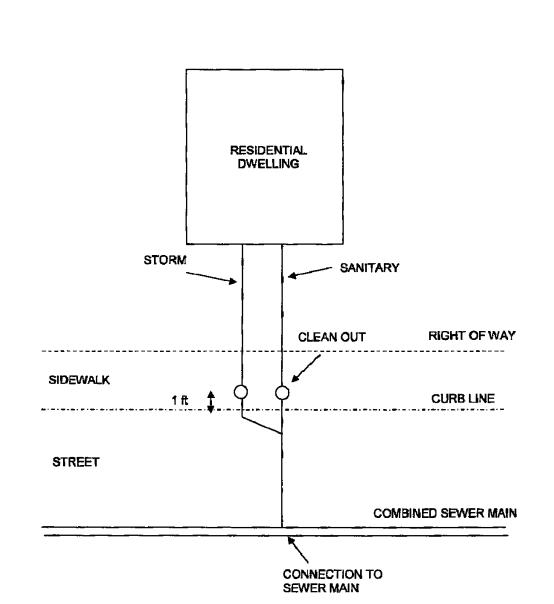
14.) ALL EXISTING SEWER MAINS AND SANITARY LATERALS TO BE ABANDONED MUST BE FILLED WITH CONCRETE SLURRY OR REMOVED FROM THE GROUND. CATCH BASINS AND MANHOLES MUST BE REMOVED FROM THE GROUND. CONNECTIONS MUST BE CUT AND SEALED AT THE MAIN AND PRECAUTIONS MUST BE UNDERTAKEN BY THE CONTRACTOR TO ENSURE CONCRETE AND OTHER MATERIALS DO NOT ENTER THE MAIN AND CREATE OBSTRUCTION(S).

15.) ALL PROPOSED INLETS/CATCH BASINS MUST BE CONSTRUCTED WITH A BICYCLE SAFE GRATE AND CAMPBELL FOUNDRY CO. TYPE 'N' CURBPIECE WHERE REQUIRED.

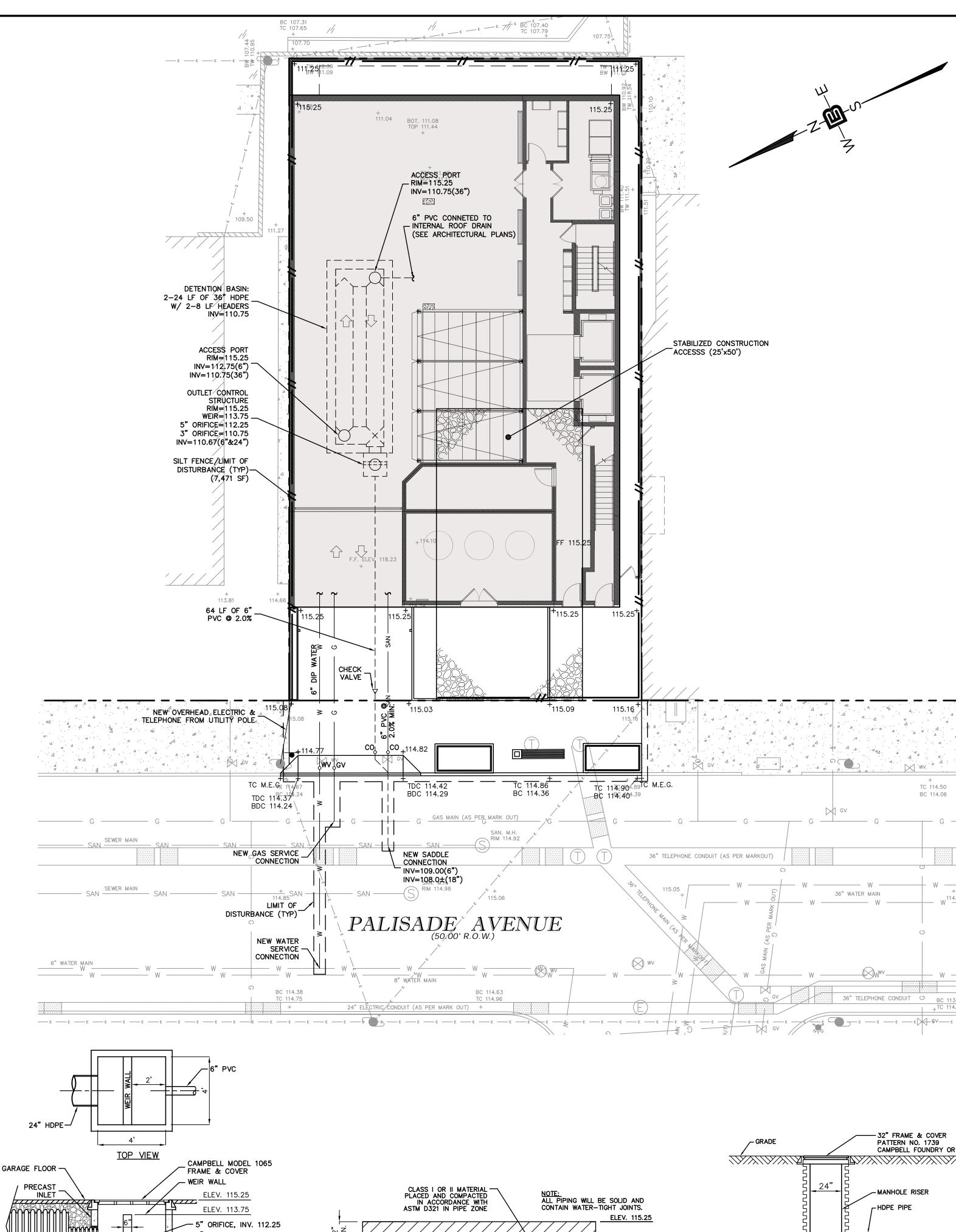
16.) PROPOSED WATER SERVICES REQUIRE THE REVIEW AND APPROVAL OF THE DIVISION OF WATER

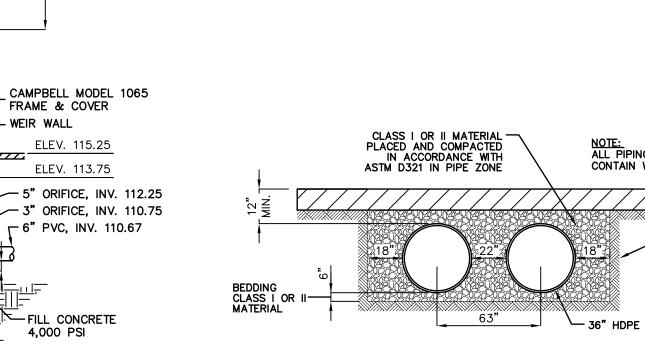
17.) THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING PERMITS FOR STREET OPENINGS FROM THE JERSEY CITY BUILDING DEPARTMENT LOCATED AT 30 MONTGOMERY STREET, JERSEY CITY, NJ AND ALL OTHER APPLICABLE PERMITS FROM AGENCIES HAVING JURISDICTION. THE SYSTEM DESIGNER IS ALSO RESPONSIBLE FOR COMPLIANCE WITH THE APPLICABLE REGULATIONS OF THE NEW JERSEY ADMINISTRATIVE CODE, NJDEP RULES AND REGULATIONS GOVERNING TREATMENT WORKS APPROVAL PROGRAM, LOCAL CODES AND ORDINANCES, FEDERAL AND STATE REGULATIONS ETC. IN ADDITION TO OTHER REQUIREMENTS THAT MAY BE IMPOSED BY THE JCMUA.

11/3/05



SEWER CONNECTION DETAIL FOR RESIDENTIAL DWELLING





**DETENTION PIPING SECTION** 

DETENTION SYSTEM OUTLET CONTROL STRUCTURE

- MANHOLE RISER -HDPE PIPE 

IDISTURBED

minnmunn **DETENTION PIPING DETAIL** 

BC 114.06

UTILITY NOTES

2.0 WATER

1.0 GENERAL

- 1.1 ALL UTILITIES TO BE INSTALLED IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS.
- 1.2 METER LOCATIONS SHOWN HERE ARE SCHEMATIC. ACTUAL
- LOCATIONS TO BE DETERMINED BY UTILITY & ARCHITECT. 1.3 CONFIRM SIZE AND MATERIAL OF ALL PROPOSED AND EXISTING

# WATER AND SEWER UTILITIES.

- 2.1 WHERE WATER MAIN IS LOCATED WITHIN 10' HORIZONTALLY OF THE SEWER MAIN, IT SHALL BE AT LEAST 18" HIGHER OR CONCRETE ENCASED.
- 2.2 ALL EXPOSED WATER LATERALS SHALL BE INSULATED AND
- HEAT TRACED. 2.3 WATER LATERALS TO BE SIZED BY MECHANICAL ENGINEER.
- 2.4 PRIOR TO CONSTRUCTION, A FLOW TEST SHALL BE PERFORMED TO CONFIRM THE FLOW AND/OR PRESSURE AVAILABLE IN THE MAIN TO WHICH THE PROPOSED BUILDING WILL CONNECT.

#### 3.0 STORM & SANITARY SEWER

- 3.1 COORDINATE SEWER CONNECTIONS WITH PLUMBING PLANS. 3.2 ROOF DRAINS TO TIE INTO INFILTRATION CHAMBER. REFER TO
- PLUMBING PLANS FOR LOCATION OF DOWNSPOUTS, SANITARY LATERALS & UTILITY SERVICE ENTRANCES.

#### 4.0 NATURAL GAS & ELECTRIC

4.1 NATURAL GAS PIPES TO BE SIZED BY GAS COMPANY.

- 4.2 THE CONTRACTOR SHALL INSTALL PROTECTIVE BLOCKING. BRACING OR SHEETING TO SUPPORT ANY EXPOSED GAS UTILITIES IN ACCORDANCE WITH THE GOVERNING GAS COMPANY REGULATIONS.
- 4.3 TELEPHONE, ELECTRIC, GAS, AND CABLE LINES AND STRUCTURE LOCATIONS SHOWN ON THE PLANS ARE TENTATIVE AND MAY CHANGE PER UTILITY COMPANY DIRECTION. THE CONTRACTOR SHALL COORDINATE FINAL LOCATIONS AND INSTALLATION REQUIREMENTS WITH THE APPLICABLE UTILITY COMPANIES.
- 4.4 PRIOR TO CONSTRUCTION ALL BUILDING CONNECTIONS TO BE COORDINATED BY THE CONTRACTOR AND GOVERNING UTILITY

#### SANITARY SEWER GENERATION

PROPOSED AVERAGE DAILY SEWER FLOW (BASED ON N.J.A.C. 7:14A-23.3)

49 - 1 BEDROOM UNITS:  $49 \times 150$  GPD = 7,350 GPD 2 - 3 BEDROOM UNITS:  $2 \times 300$  GPD = 600 GPD TOTAL: 7,350 GPD + 600 GPD = 7,950 GPD

#### DOMESTIC WATER DEMAND

PROPOSED WATER DEMAND (BASED ON N.J.A.C. 5: 21-5.2, TABLE 5.1)

6 - STUDIO UNITS:  $6 \times 65 \text{ GPD} = 390 \text{ GPD}$ 43 - 1 BEDROOM UNITS:  $43 \times 80$  GPD = 3,440 GPD 2 - 3 BEDROOM UNITS: 2 x 215 GPD = 430 GPD TOTAL: 390 GPD + 3,440 GPD + 430 GPD = 4,260 GPD

T LIC. NO. 12950 NJ LIC. NO. 28845 MA LIC. NO. 40595 NY LIC. NO. 60022 NH LIC. NO. 9368 RI LIC. NO. 6694

CALISTO J. BERTIN, P.E.

PROFESSIONAL ENGINEER

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ERIC M. HOUGH, P.E. PROFESSIONAL ENGINEER N.J. LIC. NO. 51893

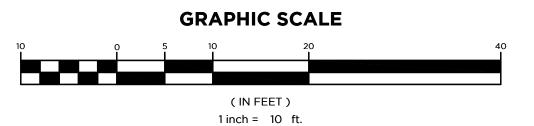
GRADING, UTILITY & SOIL **EROSION CONTROL PLAN** 

# **PROPOSED MULTI-FAMILY DWELLING**

BLOCK 6001, LOT 8 216 PALISADE AVENUE CITY OF JERSEY CITY COUNTY OF HUDSON, NJ

214-216 PALISADE AVE LL 222 DUNCAN AVENUE JERSEY CITY, NJ 07606

24GA28068900 / 21MH00002800 J.A. 1"=10' 20-270 10-26-22



. WATER MAINS SHALL BE CLASS 53, CEMENT LINED, DUCTILE IRON PIPE WITH MECHANICAL JOINTS AND SHALL BE IN CONFORMANCE WITH A.N.S.I. STANDARD A21.5- 1976 (A.W.W.A. C151-76). ALL WATER MAINS WILL BE AT LEAST 8" IN 2. GATE VALVES SHALL BE IN CONFORMANCE WITH A.N.S.I./A.W.W.A. STANDARD C500- 80 AND SHALL BE JERSEY CITY STANDARD VALVES, M&H METROPOLITAN MECHANICAL JOINT VALVES AS MANUFACTURED BY DRESSER COMPANY OR APPROVED EQUAL. VALVES SHALL BE NON-RISING STEM, MECHANICAL JOINT SHALL BE FURNISHED WITH A (2") SQUARE OPERATING NUT SHALL OPEN BY

3. BUTTERFLY VALVES SHALL BE IN CONFORMANCE WITH A.N.S.I./A.W.W.A. STANDARD C504-80. BUTTERFLY VALVES SHALL BE CLASS 1508, MECHANICAL JOINT, WITH RUBBER SEAT MOUNTED ON THE DISC, SHALL BE FURNISHED WITH A (2") INCH SQUARE OPERATING NUT AND SHALL OPEN BY TURNING TO THE RIGHT. THE VALVE SHALL BE 100% SOLID HEAT CURED EPOXY COATED HOLIDAY-FREE IN THE WATERWAY. THE USE OF BUTTERFLY VALVES WILL NOT BE PERMITTED IN MAINS (16") AND UNDER.

TURNING TO THE RIGHT. GATE VALVES (16") AND OVER SHALL BE FURNISHED WITH BY-PASS. VALVE SHALL BE 100% SOLID HEAT CURED EPOXY COATED HOLIDAY-FREE IN THE WATERWAY.

. VALVES BOXES SHALL BE JERSEY CITY "STANDARD" AS MANUFACTURED BY BINGHAM AND TAYLOR, OR APPROVED EQUAL. BOXES SHALL HAVE A MINIMUM OF 8-1/4 INCH DIAMETER AND SHALL BE AN ADJUSTABLE SCREW TYPE WITH THE BOX EXTENDING FROM THE SURFACE TO (3") INCHES ABOVE THE VALVE BONNET BASE. VALVE BOX SHALL BE CAST IRON WITH A STANDARD COAL TAR FOUNDRY DIP WITH CAST IRON WATER DROP COVER AND THE WORK "WATER" CAST IN COVER. VALVE BOX COVER SHALL BE INSTALLED FLUSH WITH THE EXISTING

5. CONCRETE FOR VALVE SEATS AND THRUST BLOCKS SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI.

S. SELECT GRANULAR BACKFILL MATERIAL SHALL BE SOIL AGGREGATE TYPE I-6 (POROUS FILL, CLEAN SAND, GRAVEL OR STONE) OBTAINED FROM DRY SOURCES AND SHALL BE FREE FROM STUMPS, BRUSH, WEEDS, ROOTS, RUBBISH, WOOD AND OTHER MATERIAL THAT MAY DECAY. GRADUATION SHALL CONFORM TO TABLE 901-2, FOR TYPE I-6 IN ARTICLE 901.09 OF THE (N.J.D.O.T.) NEW JERSEY DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS. BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED IN TWELVE (12) INCH LIFTS.

7. TIE RODS SHALL BE THREE QUARTER (3/4) INCH DIAMETER THREADED STEEL BARS. RODS SHALL HAVE A MINIMUM YIELD STRESS OF 36,000 PSI. THRUST BLOCKS AND TIE RODS SHALL BE INSTALLED AT ALL BENDS AND FITTINGS.

B. COUPLINGS SHALL BE DRESSER STYLE NUMBER 153 FOR PIPE SIZES THROUGH (30") INCH DIAMETER. FOR LARGER DIAMETER PIPE, DRESSER STYLE NUMBER 38 STEEL COUPLINGS SHALL BE USED.

9. SHEETING, SHORING AND BRACING SHALL BE CLOSED VERTICAL SHEETING, TONGUE AND GROOVE THAT IS BRACED TO PREVENT THE CAVE—IN OF TRENCHES. ALL LABOR EQUIPMENT, MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE UNITED STATES OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION. MATERIALS FOR SHEETING SHALL BE TONGUE AND GROOVE WOODEN PLANKS AND TIMBER OR STEEL CONFORMING TO REQUIREMENTS OF THE UNITED STATES OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION TIMBER SHALL BE A MINIMUM OF 3" THICK. SHEETING SHALL BE LEFT IN PLACE. SHORING AND BRACING SHALL BE REMOVED.

O. BROKEN STONE FOUNDATION CUSHION SHALL BE PLACED IN THOSE AREAS WHERE THE DIRECTOR, DEPARTMENT OF ENGINEERING HAS DEEMED THE SOIL CONDITIONS INFERIOR. BROKEN STONE SHALL CONFORM TO ARTICLE 901.03 OF THE STANDARD SPECIFICATIONS AS CURRENTLY AMENDED. THE SIZE OF BROKEN STONE SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER FOR SIZE NUMBER 2, 4, 5, OR 6 AS SHOWN IN TABLE 901-1. STANDARD SIZES OF COARSE AGGREGATES OF THE NEW JERSEY DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.

11. FILTER CLOTH SHALL BE PLACED IN THOSE AREAS WHERE THE DIRECTOR, DEPARTMENT OF ENGINEERING HAS DEEMED THE SOIL CONDITIONS INFERIOR. 12. AFTER THE ENGINEER HAS INSPECTED THE COMPLETED INSTALLATION OF VALVES, AND WATER MAIN, AND BEFORE BACKFILLING THE EXCAVATIONS, THE CONTRACTOR SHALL FURNISH ALL ABOR, MATERIALS AND EQUIPMENT REQUIRED TO PRESSURE TEST THE PIPE. THE PIPE SHALL BE PRESSURIZED TO 1.5 X THE WORKING PRESSURE FOR A PERIOD OF TWO (2) HOURS. PRESSURE SHALL NOT VARY MORE THAN FIVE (5) PSI. THE VALVED SECTION OF PIPE SHALL BE FILLED WITH WATER SLOWLY, AND THE TEST PRESSURE SHALL BE APPLIED BY MEANS OF A PUMP CONNECTED TO THE PIPE IN A MANNER SATISFACTORY TO THE ENGINEER. BEFORE APPLYING THE TEST PRESSURE, AIR SHALL BE EXPELLED COMPLETELY FROM THE PIPE BY INSTALLING CORPORATION COCKS AT SUCH POINTS SO THAT THE AIR CAN BE EXPELLED AS THE LINE IS FILLED WITH WATER. IF THE JOINTS LEAK, REPAIRS OR REPLACEMENTS SHALL BE MADE. TESTING SHALL BE IN CONFORMANCE WITH A.W.W.A. STANDARD C600—77.

13. THE CONTRACTOR SHALL DISINFECT ALL WATER MAINS IN ACCORDANCE WITH A.W.W.A. STANDARD FOR "DISINFECTING WATER MAINS" DESIGNATION C-601. COMMERCIAL PRODUCTS SUCH AS "HTH", "PERCHLARON", AND "MAXOXHLOR" MAY BE USED IN FLAKE OR CRYSTAL FORM, BUT IN NO INSTANCE WILL TABLETS BE PERMITTED TO BE USED IN THE DISINFECTION OF WATER MAINS. THE CHLORINE DOSAGE SHALL INITIALLY PRODUCE 50 PPM RESIDUAL TO THE WATER AND MAINTAIN A MINIMUM RESIDUAL OF 25 PPM AFTER 24 HOURS. AFTER SATISFACTORY DISINFECTION OF THE TEST SECTION, THE LINE SHALL BE CONTINUOUSLY FLUSHED UNTIL THE RESULTANT CHLORINE RESIDUAL EQUALS ONE PPM OR THE RESIDUAL OF THE SYSTEM, WHICHEVER IS GREATER. AFTER FINAL FLUSHING AND BEFORE THE WATER MAIN IS PLACED IN SERVICE SAMPLES SHALL BE COLLECTED FROM EACH END OF THE MAIN AND TESTED FOR BACTERIOLOGIC QUALITY. IF THE INITIAL DISINFECTION FAILS TO PRODUCE SATISFACTORY SAMPLES, DISINFECTION SHALL BE REPEATED UNTIL SATISFACTORY SAMPLES HAVE BEEN OBTAINED.

4. AIR RELEASE VALVES SHALL BE INSTALLED AT THE HIGH POINTS OF THE WATER MAINS.

15. ALL WATER MAINS WILL BE AT LEAST 8" IN DIAMETER. TEN (10") AND 14" DIAMETER MAINS SHALL NOT BE USED. 6. THRUST BLOCKS AND TIE RODS SHALL BE INSTALLED AT ALL BENDS AND

17. HYDRANTS SHALL BE TWO (2) PIECE "JERSEY CITY STANDARD" HYDRANTS AS MANUFACTURED BY A.P. SMITH OR APPROVED EQUAL. HYDRANT SPACING SHALL BE A MAXIMUM 300 FEET MEASURED CENTER TO CENTER.

8. FOR EITHER NEW CONSTRUCTION OR RELOCATION OF THE FOLLOWING SHALL A. HYDRANTS SHALL BE LOCATED NO CLOSER THAN 20 FEET FROM THE POINT OF TANGENCY OR CURVATURE AT INTERSECTIONS.

B. ALL ONE PIECE OR HYDRANTS NOT MANUFACTURED BY A.P. SMITH THAT ARE
TO BE RELOCATED SHALL BE REMOVED AND DELIVERED TO JERSEY CITY DIVISION OF WATER DISTRIBUTION. A NEW HYDRANT WILL BE SUPPLIED BY THE CITY FOR INSTALLATION.

C. HYDRANTS SHALL BE NO CLOSER THAN TEN (10") FEET FROM THE EDGE OF A RESIDENTIAL DRIVEWAY OR (20") FEET FROM THE EDGE OF COMMERCIAL DRIVEWAY. IN THE CASE WHERE DRIVEWAYS ARE EXPANDED OR NEWLY CONSTRUCTED, THE OWNER SHALL BE RESPONSIBLE FOR THE RELOCATION OF AN EXISTING HYDRANT IF ABOVE REQUIREMENTS ARE VIOLATED. D. ALL SINGLE GATED HYDRANTS ON (16") INCH OR LARGER MAINS SHALL REQUIRE A NEW VALVE AT THE BASE OF THE RELOCATED HYDRANT. E. NEW GATE VALVES AND BOXES ARE REQUIRED AT THE BASE OF RELOCATED HYDRANTS WHEN MORE THAN (10") FEET OF PIPE IS REQUIRED.

19. EXISTING WATER SERVICE LINES SHALL BE SHUT-OFF AND CAPPED AT THE MAIN PRIOR TO THE INSTALLATION OF NEW WATER SERVICES. PRIOR TO NEW SERVICE TAP THE JERSEY CITY WATER DEPARTMENT SHALL INSPECT AND CERTIFY

20. WATER MAINS TO ABANDON SHALL BE CUT AND PLUGGED WITH REQUIRED FITTINGS, RODS AND CONCRETE AS CLOSE TO THE EXISTING MAIN IN SERVICE AS

21. ALL VALVES SHALL BE OPERATED BY JERSEY CITY WATER DEPARTMENT PERSONNEL. THE CONTRACTOR SHALL NOT BE PERMITTED TO OPERATE ANY VALVES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER, IN WRITING, FIVE (5) DAYS IN ADVANCE OF VALVE OPERATING REQUIREMENTS.

22. FAILURE TO COMPLY WITH THE ABOVE REQUIREMENTS WILL RESULT IN THE IMMEDIATE SHUT-DOWN OF THE PROJECT. 08/27/07

THE JERSEY CITY MUNICIPAL UTILITIES AUTHORITY
REQUIREMENTS FOR FIRE AND DOMESTIC WATER LINE AND

1) ALL FIRE SERVICE APPLICATIONS AND ALL DOMESTIC SERVICE APPLICATIONS TWO(2) INCHES AND LARGER MUST BE SUBMITTED TO THE JCMUA'S BUREAU OF WATER ENGINEERING FOR APPROVAL. FIVE (5) SETS OF PLANS SHALL BE SUBMITTED FOR APPROVAL. ALL PLANS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT LICENSED TO PRACTICE IN

2) SUBMITTED PLANS SHALL BE STANDARD ENGINEERING DRAWINGS, SIZE 24 INCHES X 36 INCHES. INCLUDED SHALL BE A SITE PLAN SHOWING ADJACENT STREETS WITH WATER MAIN, SERVICE, AND DETAILS INDICATED. ALSO INCLUDED SHALL BE A KEY MAP SHOWING GENERAL LOCATION WITHIN THE CITY. 3) INDICATED ON THE SUBMITTED PLANS SHALL BE THE SIZE OF TAP, LOCATION OF TAPPING AND CURB GATE VALVES, DETAILED METER SET-UP, AND SIZE OF FACILITY'S METER. ALSO INDICATED ON THE PLANS SHALL BE THE TYPE OF

OCCUPANCY OF THE FACILITY RECEIVING THE WATER SERVICE. (I.E. HOSPITAL,

WAREHOUSE, APARTMENT BUILDING, ETC.) 4) ALL EXISTING WATER SERVICE LINES TO BE ABANDONED SHALL BE CUT AND CAPPED AT THE MAIN, IN ACCORDANCE WITH JCMUA STANDARDS, AND INSPECTED WITHIN 24 HOURS AFTER INSTALLATION OF NEW TAP. THE MAXIMUM OF ONE (1) TAP SHALL BE MADE FOR BOTH DOMESTIC AND FIRE SERVICE PER FACILITY. THE TAP SHALL BE THE MAXIMUM OF ONE (1) SIZE SMALLER THAN THE CITY'S WATER MAIN. NO TAPPING SHALL BE DONE BY ANYONE EXCEPT BY UNITED WATER JERSEY CITY (UWJC) UNLESS SPECIFICALLY APPROVED BY JCMUA.

5) ONLY ONE DOMESTIC/ FIRE SERVICE IS ALLOWED FOR EACH FACILITY. APPLICANT MAY INSTALL CHECK METERS ON INDIVIDUAL BRANCH CONNECTIONS DOWNSTREAM OF DOMESTIC METER SETUP WHERE THERE IS MORE THAN ONE OWNER/ TENANT FOR A FACILITY. HOWEVER, ONLY ONE WATER BILL WILL BE

6) A SOLID DUCTILE IRON TAPPING SLEEVE SUCH AS MUELLER H-615 TAPPING SLEEVE OR APPROVED EQUAL SHALL BE UTILIZED FOR ALL TAPS 2—INCHES AND LARGER. THE TAPPING SLEEVE SHALL PASS PRESSURE TESTING BASED ON AWWA STANDARDS BEFORE TAP IS MADE.

7) FOR ALL SERVICES INCLUDED HEREIN, TWO (2) GATE VALVES ARE REQUIRED THAT ARE TO BE INSTALLED BY THE APPLICANT; A TAPPING VALVE, LOCATED AT THE TAP AND CURB VALVE, LOCATED IN THE SIDEWALK BEFORE THE METER. TAPPING GATES SHALL BE FURNISHED OPENED RIGHT. ALL TAPPING AND CURB VALVES SHALL BE DOUBLE DISC GATE VALVES AND MEET AWWA STANDARDS. THE WET TAP UP TO 12 INCHES SHALL BE PERFORMED BY UWJC.

8) FOR TAPS OFF MAINS SIXTEEN (16) INCHES AND LARGER, THE APPLICANT SHALL FURNISH AND INSTALL AN ADDITIONAL GATE VALVE ADJACENT TO THE TAPPING VALVE. NO TAPS SHALL BE PERMITTED ON MAINS LARGER THAN TWENTY (20) INCHES UNLESS THERE IS NO ALTERNATIVE WATER SOURCE, AND SPECIAL WRITTEN APPROVAL IS ISSUED BY THE JCMUA.

9) VALVE BOX PARTS FOR ALL VALVES SHALL BE PROVIDED BY THE APPLICANT. ALL TAPPING GATE VALVES LARGER THAN 2-INCHES AND ALL CURB VALVES / STOPS REGARDLESS OF SIZE REQUIRE A VALVE BOX WITH THE WORD "WATER" CAST IN THE COVER. BURIED CORPORATION VALVES/ STOPS SHALL BE USED AT THE TAP FOR CLASS K COPPER SERVICES 2-INCHES AND SMALLER. 10) ALL SERVICE PIPES, SIZES 2-INCHES THROUGH 12-INCHES, SHALL BE PRESSURE CLASS 350 PSI, CEMENT-LINED DUCTILE IRON PIPE WITH MECHANICAL

11) THE APPLICANT SHALL INSTALL THE METER INSIDE THE BUILDING. IF THE BUILDING LINE IS IN EXCESS OF 75 FT. FROM THE MAIN, THE APPLICANT SHALL PLACE THE METER IN A PIT NEAR THE SIDEWALK OR STREET IN CLOSE PROXIMITY TO THE TAP.

12) FOR A REGULAR FIRE SUPPRESSION SYSTEM (COMBINED SERVICE LINE LARGER THAN 2"), A COMBINED REDUCED PRESSURE DETECTOR ASSEMBLY (AMES 5000 SS, AMES 5000 RPDA OR WATTS 909 RPDA\*) SHALL BE INSTALLED ON THE MAIN FIRE SERVICE LINE AND A REDUCED PRESSURE BACKFLOW PREVENTER ON THE BYPASS (AMES 4000 SS OR WATTS 909\*) (REFER TO FIGURE 1). ON THE LIMITED FIRE SUPPRESSION SYSTEM (COMBINED SÉRVICE LINE 1.5" OR 2"), A FIRE LINE DETECTOR CHECK WITH A SINGLE CHECK VALVE (AMES 1000 DCV\*) SHALL BE NSTALLED ON THE MAIN FIRE LINE AND A REDUCED PRESSURE BÁCKFLOW PREVENTER (AMES 4000 SS OR WATTS 909\*) SHALL BE INSTALLED DOWNSTREAM OF THE BYPASS (REFER TO FIGURE 2). ALL REGULAR FIRE SUPPRESSION SYSTEMS MUST HAVE OS&Y VALVES, HOWEVER, LIMITED FIRE SUPPRESSION SYSTEMS MAY USE BALL VALVES (VICTAULIC SERIES 728 FIRELOCK\*) INSTEAD OF OS&Y VALVES. THE FIRE UNIT SHALL BE FURNISHED WITH A 5/8 INCH X 3/4 INCH METERED BYPASS. BYPASS METERS SHALL BE JERSEY CITY STANDARD SINGLE DISPLACEMENT SENSUS METERS WITH TOUCHPAD AND RADIO READ CAPABILITIES. THE SAME ADIO MXU UNIT SHALL BE USED FOR A COMBINED DAYS FOR THE SAME ADIO MXU UNIT SHALL BE USED FOR A COMBINED

13) FOR DOMESTIC SERVICE. AN APPROVED REDUCED PRESSURE BACKFLOW PREVENTER (AMES 4000 SS OR WATTS 909\*) IS REQUIRED WHEN THE JCMUA DETERMINES THAT THERE IS A CROSS-CONNECTION HAZARD AND THE FACILITY PRESENTS A THREAT TO THE CITY'S DISTRIBUTION SYSTEM WATER QUALITY IN ACCORDANCE WITH THE PLUMBING SUBCODE OF THE NEW JERSEY STATE UNIFORM CONSTRUCTION CODE, NJAC 5:23-3.15 AND THE NEW JERSEY SAFE DRINKING WATER ACT NJAC 7:10-10 PHYSICAL CONNECTIONS AND CROSS CONNECTIONS CONTROL BY CONTAINMENT. SOME SERVICES WHICH REQUIRE SUCH DEVICES INCLUDE: A HOSPITAL, SCHOOL, CHEMICAL PLANT, FACTORY, AND A FACILITY WITH SEWAGE EJECTORS.

14) IF A REDUCED PRESSURE BACKFLOW PREVENTER IS NOT REQUIRED ON THE OMESTIC SERVICE, A CHECK VALVE SHOULD BE INSTALLED DOWNSTREAM OF THE

15) ALL METERS SIZES 2 INCHES THROUGH 6 INCHES SHALL BE SINGLE COMPOUND METERS AND ALL METERS 8 INCHES AND LARGER SHALL BE DUPLEX COMPOUND MANIFOLD METERS.

16) ALL METERS SHALL BE ADEQUATELY RESTRAINED WITH METAL BRACKETS FASTENED TO THE FLOOR OR WALL OR OTHER APPROVED MEANS SUCH AS UNIFLANGES WHERE INTERNAL PIPE PRESSURE AND FLOW WARRANT SUCH RESTRAINTS. METERS, DETECTOR CHECKS, AND VALVES MAY BE SEATED ON CONCRETE BLOCK AND TAPERED SHIMS TO PROVIDE ADEQUATE SUPPORT. METERS SHALL BE INSTALLED APPROXIMATELY 36" ABOVE FLOOR GRADE.

17) ALL METER INSTALLATIONS IN METER PIT OR VAULT SHALL BE PRE-APPROVED BY JCMUA ANDHAVE PROPER ACCESS OPENINGS FOR METER READING AND REPLACEMENT.

18) EACH COMPOUND METER SHALL HAVE STRAINER INSTALLED ON THE INLET SIDE IMMEDIATELY BEFORE THE METER. ALL STRAINERS MUST BE PURCHASED FROM JCMUA OR ITS AUTHORIZED AGENT.

19) ALL METERS 2" AND LARGER SHALL BE FURNISHED WITH SENSUS ECR/WP REMOTE TOUCH PAD MODULES AND RADIO MXU UNITS FOR BOTH TYPES OF READING CAPABILITIES.

20) REMOTE TOUCH PAD MODULE WIRE SHALL BE CONNECTED TO THE METER REGISTER UTILIZING A GEL CAP FOR WATERTIGHT SEALING OF ALL TERMINAL CONNECTIONS. TOUCH PADS MAY BE WALL MOUNTED OR LID MOUNTED WHERE A METER PIT IS UTILIZED. TOUCH PADS ARE TO BE INSTALLED ON EXTERIOR BUILDING WALL FACING THE STREET AND LOCATED AS CLOSE AS POSSIBLE TO STREET. THE RADIO MXU UNIT MUST BE INSTALLED WITH MOUNTING BRACKET AND

21) ALL INSTALLATIONS OF EQUIPMENT AND COMPONENTS SHALL BE PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

LIKEWISE IS TO BE INSTALLED IN PROXIMITY TO STREET

ALL METERS INCLUDING TOUCH PAD MODULES, AND RADIO MXU UNITS SHALL BE PURCHASED THROUGH THE PERMIT CLERK AT JCMUA OFFICE. APPROVED PLANS MUST BE SUBMITTED TO THE PERMIT CLERK FOR ISSUANCE OF REQUIRED

23) AFTER OBTAINING THE REQUIRED PERMITS (STREET OPENING, TAP, AND METER) THE APPLICANT SHALL CALL UWJC AT (201) 239-1108 TO SCHEDULE THE TAP. THE EXCAVATION SHALL BE COMPLETED TWENTY—FOUR (24) HOURS PRIOR TO THE SCHEDULED TAP, AND VERIFIED BY JCMUA OR ITS AUTHORIZED AGENT BEFORE THE TAP WILL BE INSTALLED. EXCAVATION SHALL BE CONSTRUCTED IN ACCORDANCE WITH OSHA REQUIREMENTS FOR SHEETING AND SAFETY.

24) UPON COMPLETION OF THE INSTALLATION, THE APPLICANT SHALL SUBMIT THREE (3) SETS OF "AS BUILT" PLANS, TO THE JCMUA'S BUREAU OF WATER ENGINEERING. THE JCMUA WILL AUTHORIZE SUPPLY WATER UPON ACCEPTANCE OF THE "AS BUILT" DRAWINGS.

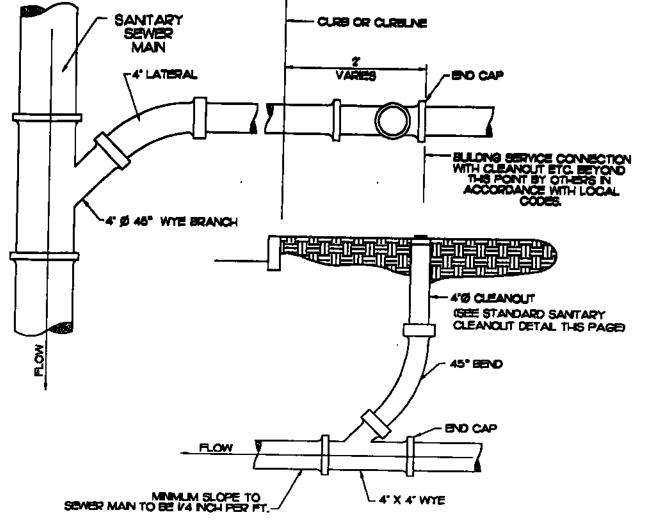
\* SPECIFIED MODEL OR APPROVED EQUAL. 06/28/06

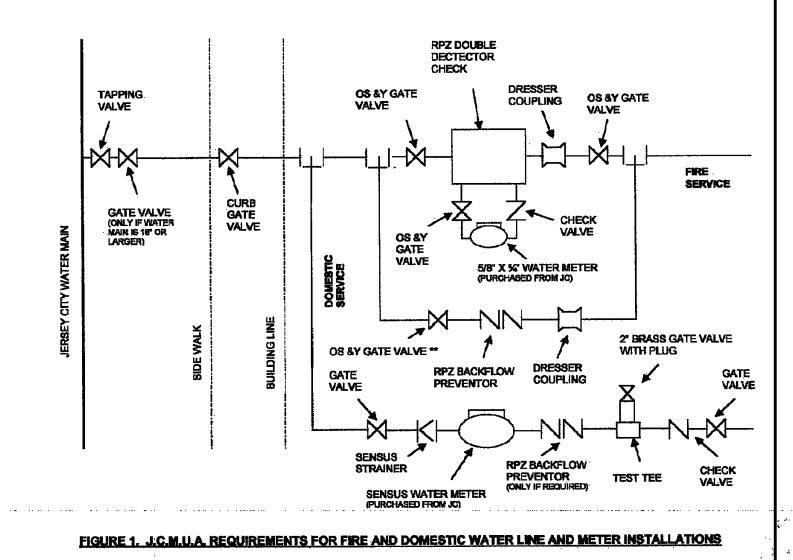
TRUSHED STONE 2 NETALL CO AS INDICATED ON PLAN. --- 4"x 4"50R 35 PVC WY!

STANDARD SANITARY CLEANOUT

PELT

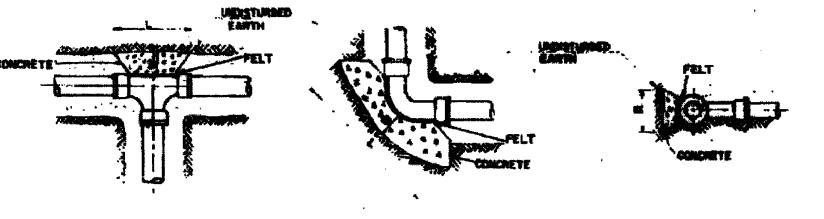
2"BAWCUT (TYP.) -

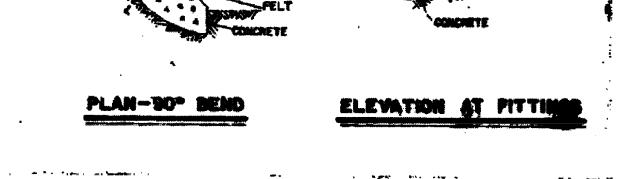




CLASS 'B' CONCRETE

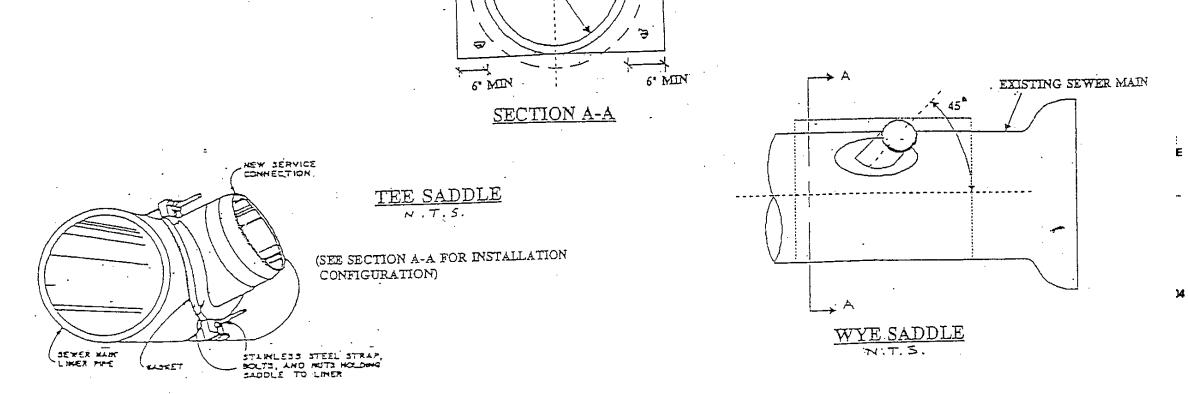
SANITARY SEWER SERVICE LATERAL DETAIL





- A-4-

NOT TO SCALE



MAIN

⊕

6" MIIN

DIAMETER VARIES

(24° MAX)

TAPPING SLEEVE. AND TAPPING WALVE DETAIL NOT TO SCALE

IP PULL WEITH MILLING AND PAVING

is not included in the project,

DENSE GRADED ADDREGATE BASE COURSE

REPAIR WIDTH AND LENGTH (AILLING &

REICH OPENING OR AS DETERMINED BY THE SIGNEER OR AS SHOWN ON THE PLANS

ROADWAY EXCAVATION,

UNCLASSITED PAY LIMITS

PAYING) TO SE A MINIMUN OF S' PAST

-TO SUPPORT AND UNTIL SLEEVE AND MILVE ANDMONAGE SETS

TACK COAT -

SEWER CONNECTION TO CLAY SEWER DETAIL

- HOT MIX ASPIALT 12.6HB4 OR 70 SURFACE COURSE

UNDISTURBED SUFFABLE SCAL

FNUGHED BURGRADE

(TYPE & DEPTH VARIES

EDGE SHALL BE STRAIGHT, RC 70 TACK **COAT PRIOR TO PAYING** 

PEATHER TO EXIST, PAVEMENT BIT. STABELIZED BASE MEX 81 - 6" THROUGHERS UNDISTURBED SOL PROPOSED PIPE SELECT GRANULAR BACKPILL AS SPECIFIED PLTER CLOTH YMERE AND AS COMPACTED IN 6"LIFTS DRECTED BY THE ENGINEER

O.D. 5-0"

HOT MIX ASPHALT PAVEMENT REPAIR DETAIL

TYPICAL TRENCH DETAIL

NOT TO SCALE

BIT. CONC. BURIFACE COURSE MIX IS

CALISTO J. BERTIN, P.E.

PROFESSIONAL ENGINEER

T LIC. NO. 12950 NJ LIC. NO. 28845

MA LIC. NO. 40595 NY LIC. NO. 60022

NH LIC. NO. 9368 RI LIC. NO. 669

ERIC M. HOUGH, P.E

PROFESSIONAL ENGINEER

NJ 07 NJ 07 1670.6

UTILITY DETAILS

**PROPOSED** MULTI-FAMILY DWELLING

BLOCK 6001, LOT 8 216 PALISADE AVENUE CITY OF JERSEY CITY COUNTY OF HUDSON, NJ

214-216 PALISADE AVE LLO 222 DUNCAN AVENUE JERSEY CITY, NJ 07606

24GA28068900 / 21MH00002800 J.A. AS SHOWN 20-270 10-26-22

**C2.**1