# PRELIMINARY AND FINAL SITE PLAN

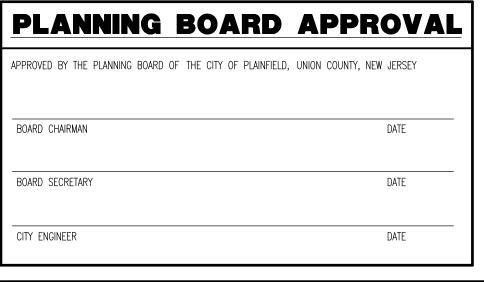
FOR

# 803 S URBAN RENEWAL, LLC PROPOSED MIXED USE BUILDING

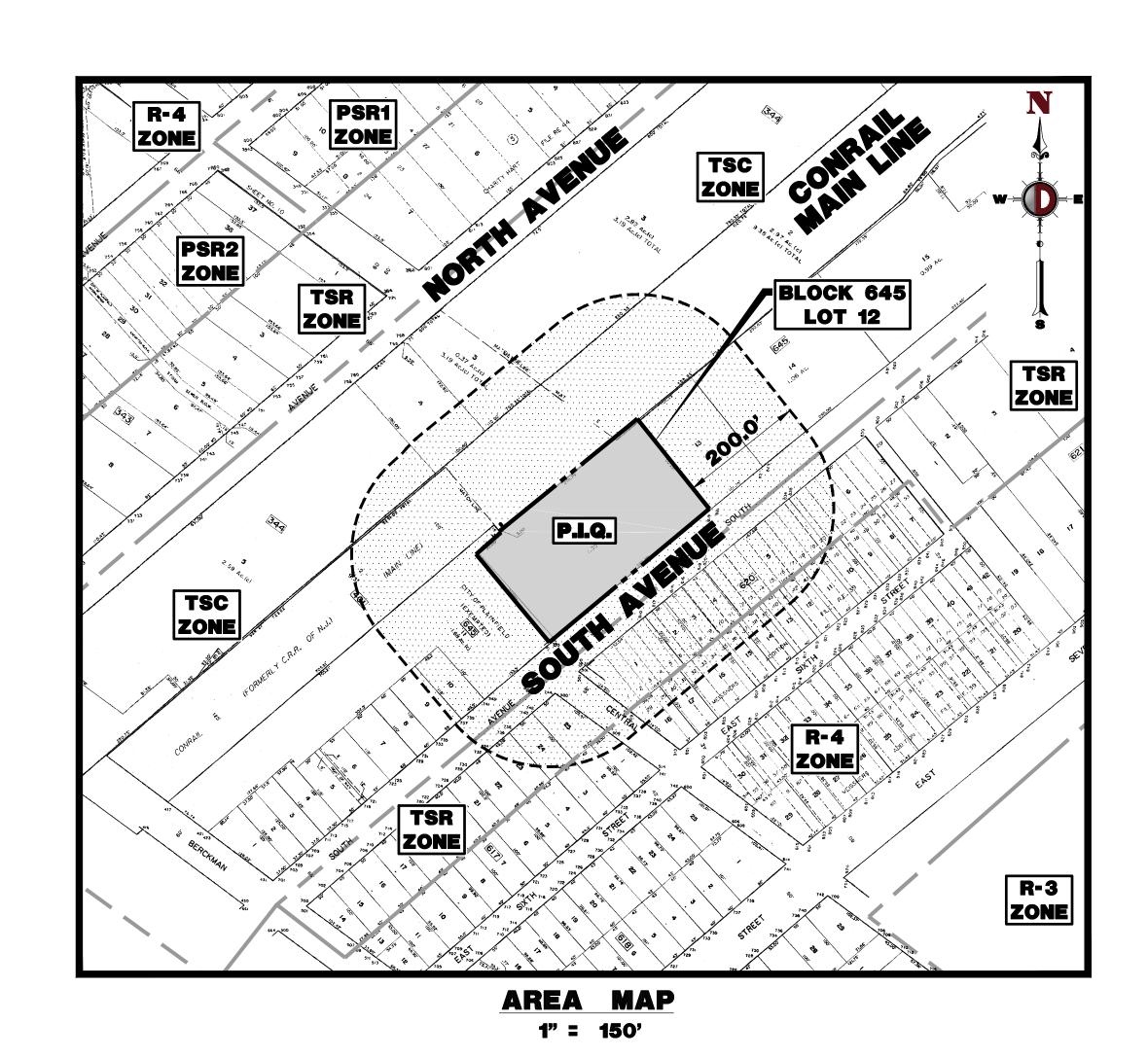
BLOCK 645, LOT 12; TAX MAP SHEET #35 - LATEST REV. DATED 3/24/87 803 SOUTH AVENUE CITY OF PLAINFIELD UNION COUNTY, NEW JERSEY

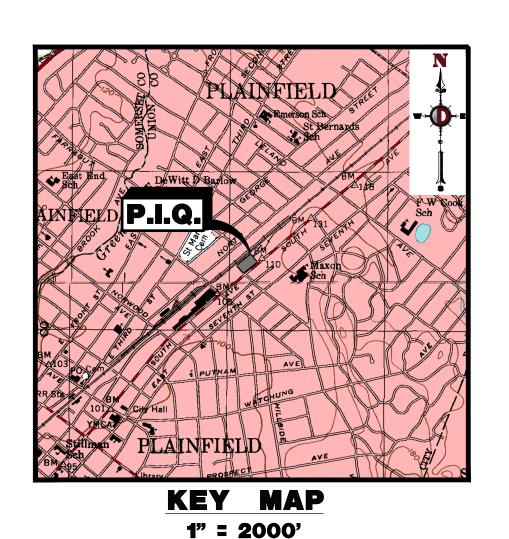
### 200' PROPERTY OWNERS LIST

PROPERTY OWNER	<u>BLOCK</u>	LOT	PROPERTY OWNER	BLOCK	LOT
LIVING LEGACY PROPERTIES, LLC 1101 KENYON AVE PLAINFIELD, NJ 07060	340	2	ALSO TO BE NOTIFIED		
JSB340 PROPERTIES LLC 13 SPRINGDALE LN WARREN, NJ 07059	340	3	AMERICAN WATER SSC PO BOX 5627 CHERRY HILL, NJ 08034		
BALK, MARTIN & MARY ANN 15 DOGWOOD HILL WARREN, NJ 07059	340	4	PUBLIC SERVICE ELECTRIC & GAS COMPANY MANAGER – CORPORATE PROPERTIES 80 PARK PLAZA, 168 NEWARK, NJ 07102		
DEROSE, JOSEPH & BRUNO, JOHN S. 919 NORTH AVENUE PLAINFIELD, NJ 07061	340	5	BELL ATLANTIC NJ 540 BROAD STREET NEWARK, NJ 07102		
JSB340 PROPERTIES LLC 919 NORTH AVE PLAINFIELD, NJ 07061	340	6	PLAINFIELD MUNICIPAL UTILITIES AUTHORITY 127 ROOSEVELT AVENUE PLAINFIELD, NJ 07060		
ROBINSON, PAUL PO BOX 623 SCOTCH PLAINS, NJ 07076	340	7	COMCAST CABLEVISION 73 ROCK AVENUE PLAINFIELD, NJ 07062		
DOUGLAS, MORRIS 701A E FRONT ST PLAINFIELD, NJ 07060	340	8	AT&T 2315 SALEM ROAD CONYERS, GA 30013 ATIN: NANCY PENCE		
908–924 NORTH AVE, LLC 32 NORTH AVE FANWOOD, NJ 07023	344	1	ATTN: NANCY PENCE		
NEW JERSEY TRANSIT CORP PO BOX 10009 NEWARK, NJ 07101	402	6			
CITY OF PLAINFIELD 515 WATCHUNG AVE PLAINFIELD, NJ 07061	403 645	1 27			
1105 NORTH AVE LLC 232 JUNIPER WAY MOUNTAINSIDE, NJ 07092	404	14			
CARAFARO 1985 LIMITED PTNR. 43 CONSITUTION WAY SOMERSET, NJ 08873	645	16			
949 SOUTH AVE COURY LLC 943–51 SOUTH AVE PLAINFIELD, NJ 07062	645	20			
COURY, RICHARD P & HERBERT R 949 SOUTH AVE PLAINFIELD, NJ 07062	645	21 & 22			
SHUSTER HOLDING CORP 1007 SOUTH AVE PLAINFIELD, NJ 07062	645	23 & 24			
SIMS, RONALD & PHYLLIS J 1009 SOUTH AVE PLAINFIELD, NJ 07062	645	25			
CODY MILCH 2011 TRUST 168 HEWLETT NECK RD WOODMERE, NY 11598	645	26			
PLAINFIELD DEVELOPMENT, INC. 27 PRINCE STREET ELIZABETH, NJ 07208	645	28			



<b>PLAINFIELD</b>	MUA	APPROVAL	BLOCK
PRELIMINARY APPROVAL			
AUTHORITY ENGINEER			DATE
TENTATIVE APPROVAL			
AUTHORITY ENGINEER			DATE
<u>FINAL APPROVAL</u>			
AUTHORITY ENGINEER			DATE





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EROSION & SEDIMENT CONTROL PLAN	8 of 14
ISTRUCTION DETAILS	9 - 13 of 14

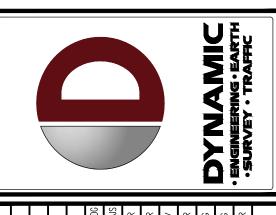
14 of 14

1 of 1

PLAINFIELD MUA STANDARD CONSTRUCTION DETAILS

PREPARED BY

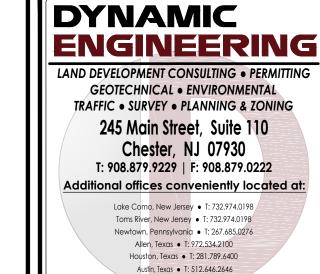
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245 MAIN STREET - SUITE 110
CHESTER, NJ 07930
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ВУ	COMMENTS	DATE	REV.
RRR	03/26/20 REVISED PER AMENDED RDP	03/26/20	1
JDC	06/11/20 REVISED PER NJDEP COMMENTS	06/11/20	2
JDC	08/03/20 REVISED PER RESOLUTION COMPLIANCE	08/03/20	3
RRR	REVISED PER CITY & NJ TRANSIT COMMENTS	09/17/20	4
AOV	10/15/20 REVISED PER CITY POLICE DEPARTMENT COMMENTS	10/15/20	5
RRR	11/11/20 REVISED PER NJDEP COMMENTS	11/11/20	9
RRR	REVISED PER NJDEP TWA COMMENTS	01/12/21	7
AOV/DJ	04/27/21 REVISED PER CLIENT COMMENTS	04/27/21	8
ar/ɔɔr	08/04/21 REVISED PER CLIENT & PSE&G COMMENTS	08/04/21	6

JERSES	LLC NEW	803 S URBAN RENEWAL, LLC Proposed Mixed USE BUILDING BLOCK 645, LOT 12 803 SOUTH AVENUE CITY OF PLAINFIELD, UNION COUNTY, NEW JERSES	803 S URBAN Proposed Mixed US Block 645, lot 12 803 South Avenue city of Plainfield,	PROJECT: <b>803 S URBAN RENEWAL, LLC</b> **PROPOSED MIXED USE BUILDING BLOCK 645, LOT 12 803 SOUTH AVENUE CITY OF PLAINFIELD, UNION COUNTY, NEW
	N CHECK	CONSTRUCTION CHECK	DATE	CONSTRUCTION CHECK
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BRETT W. SKAPINETZ

PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 41985

JOSEPH C. SPARONE

COVER SHEET

PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 47204

ı	SCALE: (H) AS	DATE:	DRAWN BY:	DESIGNED BY:
ı	(V) SHOWN	02/18/2020	JTG	RJC
ı	PROJECT No:			CHECKED BY:
ı	0404-99-	-041		BWS
L				

Rev. #:



	08/04/21 REVISED PER CLIENT & PSE&G COMMENTS	04/27/21 REVISED PER CLIENT COMMENTS	01/12/21 REVISED PER NJDEP TWA COMMENTS	11/11/20 REVISED PER NJDEP COMMENTS	10/15/20 REVISED PER CITY POLICE DEPARTMENT COMMENTS	09/17/20 REVISED PER CITY & NJ TRANSIT COMMENTS	08/03/20 REVISED PER RESOLUTION COMPLIANCE	06/11/20 REVISED PER NJDEP COMMENTS	03/26/20 REVISED PER AMENDED RDP	E COMMENTS
	08/04/21	04/27/21	01/12/21	11/11/20	10/15/20	09/17/20	08/03/20	06/11/20	03/26/20	DATE

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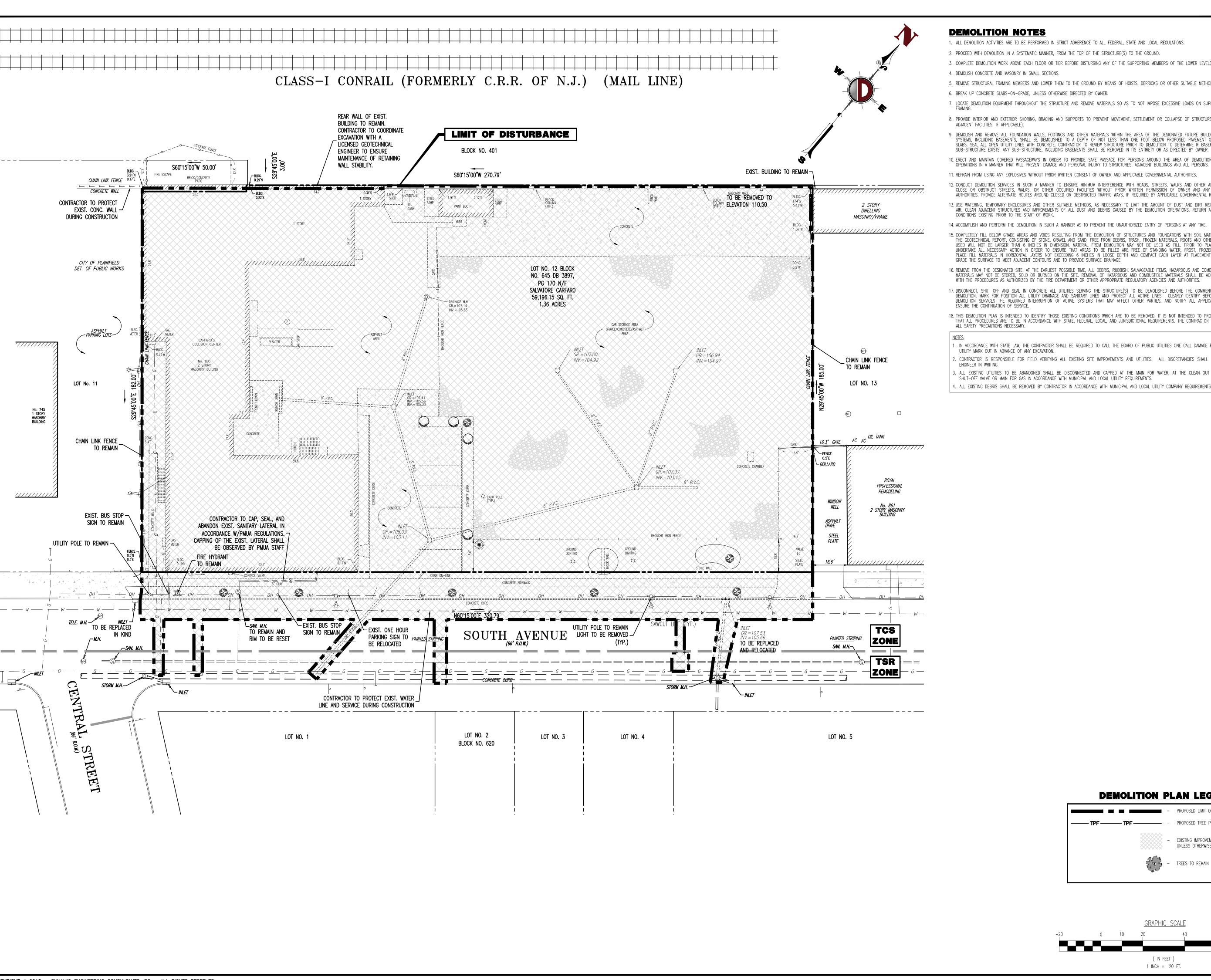
BRETT W. SKAPINETZ

JOSEPH C. SPARONE

PROFESSIONAL ENGINEER

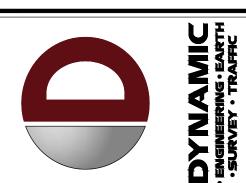
AERIAL MAP

02/18/2020 GH RJC 0404-99-041



#### **DEMOLITION NOTES**

- 1. ALL DEMOLITION ACTIVITIES ARE TO BE PERFORMED IN STRICT ADHERENCE TO ALL FEDERAL, STATE AND LOCAL REGULATIONS.
- 2. PROCEED WITH DEMOLITION IN A SYSTEMATIC MANNER, FROM THE TOP OF THE STRUCTURE(S) TO THE GROUND.
- 3. COMPLETE DEMOLITION WORK ABOVE EACH FLOOR OR TIER BEFORE DISTURBING ANY OF THE SUPPORTING MEMBERS OF THE LOWER LEVELS.
- 4. DEMOLISH CONCRETE AND MASONRY IN SMALL SECTIONS.
- 5. REMOVE STRUCTURAL FRAMING MEMBERS AND LOWER THEM TO THE GROUND BY MEANS OF HOISTS, DERRICKS OR OTHER SUITABLE METHODS.
- 6. BREAK UP CONCRETE SLABS-ON-GRADE, UNLESS OTHERWISE DIRECTED BY OWNER.
- 7. LOCATE DEMOLITION EQUIPMENT THROUGHOUT THE STRUCTURE AND REMOVE MATERIALS SO AS TO NOT IMPOSE EXCESSIVE LOADS ON SUPPORTING WALLS, FLOORS, OR
- 8. PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING AND SUPPORTS TO PREVENT MOVEMENT, SETTLEMENT OR COLLAPSE OF STRUCTURES TO BE DEMOLISHED (AND
- 9. DEMOLISH AND REMOVE ALL FOUNDATION WALLS, FOOTINGS AND OTHER MATERIALS WITHIN THE AREA OF THE DESIGNATED FUTURE BUILDING. ALL OTHER FOUNDATION SYSTEMS, INCLUDING BASEMENTS, SHALL BE DEMOLISHED TO A DEPTH OF NOT LESS THAN ONE FOOT BELOW PROPOSED PAVEMENT OR, BREAK BASEMENT FLOOR SLABS. SEAL ALL OPEN UTILITY LINES WITH CONCRETE. CONTRACTOR TO REVIEW STRUCTURE PRIOR TO DEMOLITION TO DETERMINE IF BASEMENT, CRAWL SPACE OR ANY
- 10. ERECT AND MAINTAIN COVERED PASSAGEWAYS IN ORDER TO PROVIDE SAFE PASSAGE FOR PERSONS AROUND THE AREA OF DEMOLITION. CONDUCT ALL DEMOLITION OPERATIONS IN A MANNER THAT WILL PREVENT DAMAGE AND PERSONAL INJURY TO STRUCTURES, ADJACENT BUILDINGS AND ALL PERSONS.
- 12. CONDUCT DEMOLITION SERVICES IN SUCH A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS AND OTHER ADJACENT FACILITIES. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER OCCUPIED FACILITIES WITHOUT PRIOR WRITTEN PERMISSION OF OWNER AND ANY APPLICABLE GOVERNMENTAL AUTHORITIES. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS, IF REQUIRED BY APPLICABLE GOVERNMENTAL REGULATIONS.
- 13. USE WATERING, TEMPORARY ENCLOSURES AND OTHER SUITABLE METHODS, AS NECESSARY TO LIMIT THE AMOUNT OF DUST AND DIRT RISING AND SCATTERING IN THE AIR. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF ALL DUST AND DEBRIS CAUSED BY THE DEMOLITION OPERATIONS. RETURN ALL ADJACENT AREAS TO THE CONDITIONS EXISTING PRIOR TO THE START OF WORK.
- 14. ACCOMPLISH AND PERFORM THE DEMOLITION IN SUCH A MANNER AS TO PREVENT THE UNAUTHORIZED ENTRY OF PERSONS AT ANY TIME.
- 15. COMPLETELY FILL BELOW GRADE AREAS AND VOIDS RESULTING FROM THE DEMOLITION OF STRUCTURES AND FOUNDATIONS WITH SOIL MATERIALS IN ACCORDANCE WITH THE GEOTECHNICAL REPORT, CONSISTING OF STONE, GRAVEL AND SAND, FREE FROM DEBRIS, TRASH, FROZEN MATERIALS, ROOTS AND OTHER ORGANIC MATTER. STONES USED WILL NOT BE LARGER THAN 6 INCHES IN DIMENSION. MATERIAL FROM DEMOLITION MAY NOT BE USED AS FILL. PRIOR TO PLACEMENT OF FILL MATERIALS, UNDERTAKE ALL NECESSARY ACTION IN ORDER TO ENSURE THAT AREAS TO BE FILLED ARE FREE OF STANDING WATER, FROST, FROZEN MATERIAL, TRASH, DEBRIS. PLACE FILL MATERIALS IN HORIZONTAL LAYERS NOT EXCEEDING 6 INCHES IN LOOSE DEPTH AND COMPACT EACH LAYER AT PLACEMENT TO 95% OPTIMUM DENSITY.
- 16. REMOVE FROM THE DESIGNATED SITE, AT THE EARLIEST POSSIBLE TIME, ALL DEBRIS, RUBBISH, SALVAGEABLE ITEMS, HAZARDOUS AND COMBUSTIBLE SERVICES. REMOVED MATERIALS MAY NOT BE STORED, SOLD OR BURNED ON THE SITE. REMOVAL OF HAZARDOUS AND COMBUSTIBLE MATERIALS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE PROCEDURES AS AUTHORIZED BY THE FIRE DEPARTMENT OR OTHER APPROPRIATE REGULATORY AGENCIES AND AUTHORITIES.
- 17. DISCONNECT, SHUT OFF AND SEAL IN CONCRETE ALL UTILITIES SERVING THE STRUCTURE(S) TO BE DEMOLISHED BEFORE THE COMMENCEMENT OF THE DESIGNATED DEMOLITION. MARK FOR POSITION ALL UTILITY DRAINAGE AND SANITARY LINES AND PROTECT ALL ACTIVE LINES. CLEARLY IDENTIFY BEFORE THE COMMENCEMENT OF DEMOLITION SERVICES THE REQUIRED INTERRUPTION OF ACTIVE SYSTEMS THAT MAY AFFECT OTHER PARTIES, AND NOTIFY ALL APPLICABLE UTILITY COMPANIES TO
- 18. THIS DEMOLITION PLAN IS INTENDED TO IDENTIFY THOSE EXISTING CONDITIONS WHICH ARE TO BE REMOVED. IT IS NOT INTENDED TO PROVIDE DIRECTION OTHER THAN THAT ALL PROCEDURES ARE TO BE IN ACCORDANCE WITH STATE, FEDERAL, LOCAL, AND JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR
- 1. IN ACCORDANCE WITH STATE LAW, THE CONTRACTOR SHALL BE REQUIRED TO CALL THE BOARD OF PUBLIC UTILITIES ONE CALL DAMAGE PROTECTION SYSTEM OR UTILITY MARK OUT IN ADVANCE OF ANY EXCAVATION.
- 2. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING SITE IMPROVEMENTS AND UTILITIES. ALL DISCREPANCIES SHALL BE IDENTIFIED TO THE
- 3. ALL EXISTING UTILITIES TO BE ABANDONED SHALL BE DISCONNECTED AND CAPPED AT THE MAIN FOR WATER, AT THE CLEAN-OUT FOR SEWER AND THE SHUT-OFF VALVE OR MAIN FOR GAS IN ACCORDANCE WITH MUNICIPAL AND LOCAL UTILITY REQUIREMENTS.
- 4. ALL EXISTING DEBRIS SHALL BE REMOVED BY CONTRACTOR IN ACCORDANCE WITH MUNICIPAL AND LOCAL UTILITY COMPANY REQUIREMENTS.



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BRETT W. SKAPINETZ

PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 41985

JOSEPH C. SPARONE

PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 47204

**DEMOLITION** PLAN

02/18/2020 GH RJC PROJECT No: 0404-99-041

OF 14

( IN FEET ) 1 INCH = 20 FT.

**DEMOLITION PLAN LEGEND** 

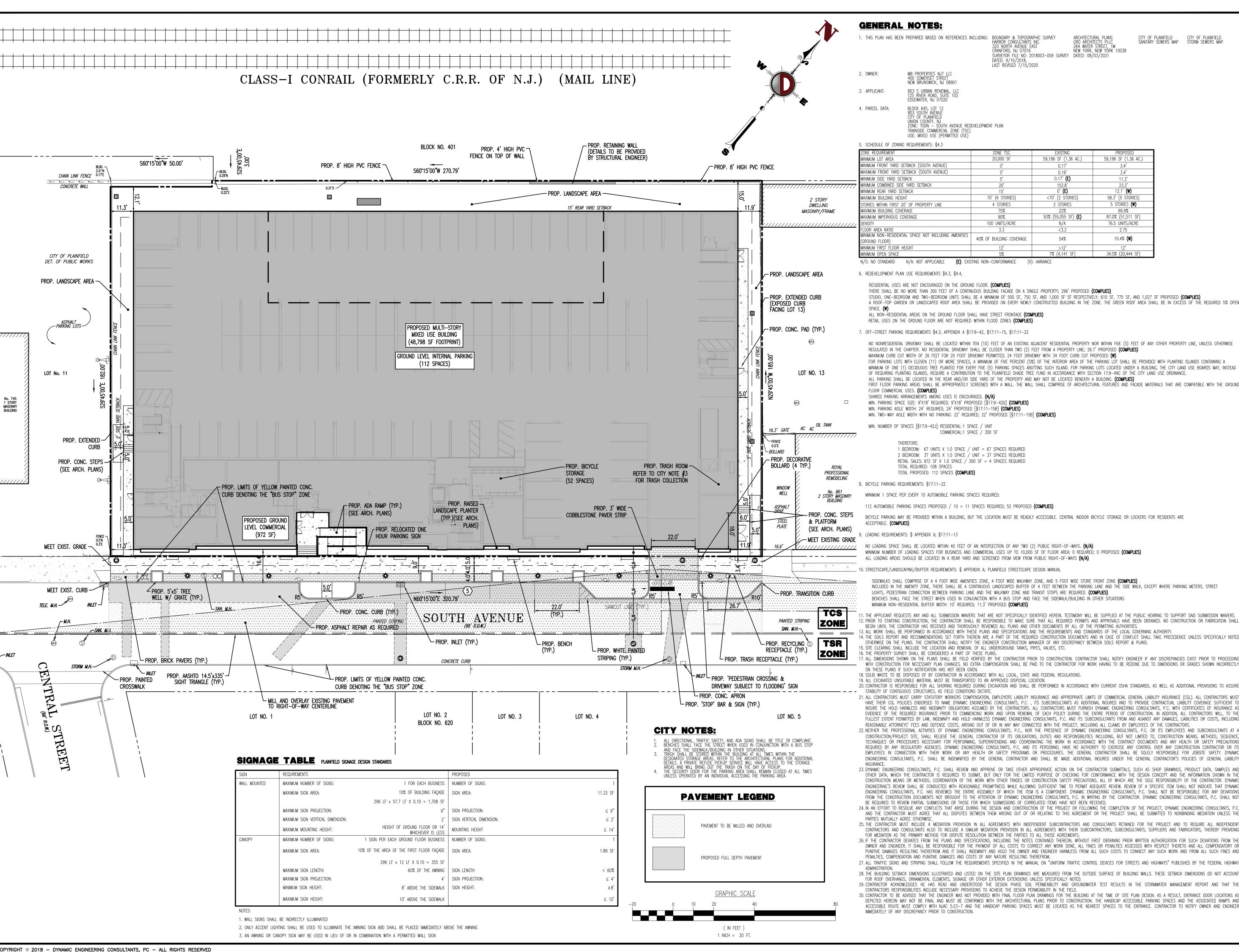
- PROPOSED LIMIT OF DISTURBANCE LINE

EXISTING IMPROVEMENTS TO BE REMOVED

- PROPOSED TREE PROTECTION FENCE LINE

UNLESS OTHERWISE NOTED

TREES TO REMAIN



**GENERAL NOTES:** 

1. THIS PLAN HAS BEEN PREPARED BASED ON REFERENCES INCLUDING:
BOUNDARY & TOPOGRAPHIC SURVEY HARBOR CONSULTANTS INC.
320 NORTH AVENUE FAST CITY OF PLAINFIELD CITY OF PLAINFIELD SANITARY SEWERS MAP SURVEYOR FILE NO: 2018003-059 SURVEY DATED: 08/03/2021

DATED: 9/10/2018, LAST REVISED 7/15/2020

MB PROPERTIES NJ7 LLC 400 SOMERSET STREET NEW BRUNSWICK, NJ 08901

803 SOUTH AVENUE
CITY OF PLAINFIELD
UNION COUNTY, NJ
ZONE: TODN — SOUTH AVENUE REDEVELOPMENT PLAN TRAINSIDE COMMERCIAL ZONE (TSC USE: MIXED USE (PERMITTED USE)

5. SCHEDULE OF ZONING REQUIREMENTS: §4.3

ZONE REQUIREMENT	ZONE TSC	EXISTING	PROPOSED
MINIMUM LOT AREA	20,000 SF	59,196 SF (1.36 AC.)	59,196 SF (1.36 AC.)
MINIMUM FRONT YARD SETBACK (SOUTH AVENUE)	0'	0.17'	3.4'
MAXIMUM FRONT YARD SETBACK (SOUTH AVENUE)	5'	0.19'	3.4'
MINIMUM SIDE YARD SETBACK	5'	0.17' <b>(E)</b>	11.3'
MINIMUM COMBINED SIDE YARD SETBACK	20'	152.8'	23.2'
MINIMUM REAR YARD SETBACK	15'	0' <b>(E)</b>	12.1' <b>(W)</b>
MAXIMUM BUILDING HEIGHT	70' (6 STORIES)	<70' (2 STORIES)	58.3' (5 STORIES)
STORIES WITHIN FIRST 20' OF PROPERTY LINE	4 STORIES	2 STORIES	5 STORIES (W)
MAXIMUM BUILDING COVERAGE	75%	22%	69.9%
MAXIMUM IMPERVIOUS COVERAGE	90%	93% (55,055 SF) <b>(E)</b>	87.0% (51,511 SF)
DENSITY	100 UNITS/ACRE	N/A	76.5 UNITS/ACRE
FLOOR AREA RATIO	3.3	<3.3	2.75
MINIMUM NON-RESIDENTIAL SPACE NOT INCLUDING AMENITIES	40% OF BUILDING COVERAGE	54%	10.4% <b>(W)</b>
(GROUND FLOOR)	40% OF BUILDING COVERAGE	J4%	10.4% (#)
MINIMUM FIRST FLOOR HEIGHT	12'	>12'	12'
MINIMUM OPEN SPACE	5%	7% (4.141 SF)	34.5% (20.444 SF)

N/S: NO STANDARD N/A: NOT APPLICABLE (E): EXISTING NON-CONFORMANCE (V): VARIANCE

#### 6. REDEVELOPMENT PLAN USE REQUIREMENTS §4.3, §4.4,

RESIDENTIAL USES ARE NOT ENCOURAGED ON THE GROUND FLOOR. (COMPLIES) THERE SHALL BE NO MORE THAN 300 FEET OF A CONTINUOUS BUILDING FACADE ON A SINGLE PROPERTY; 296' PROPOSED (COMPLIES)

STUDIO, ONE-BEDROOM AND TWO-BEDROOM UNITS SHALL BE A MINIMUM OF 500 SF, 750 SF, AND 1,000 SF SF RESPECTIVELY; 610 SF, 775 SF, AND 1,027 SF PROPOSED (COMPLIES) A ROOF-TOP GARDEN OR LANDSCAPED ROOF AREA SHALL BE PROVIDED ON EVERY NEWLY CONSTRUCTED BUILDING IN THE ZONE. THE GREEN ROOF AREA SHALL BE IN EXCESS OF THE REQUIRED 5% OPEN

ALL NON-RESIDENTIAL AREAS ON THE GROUND FLOOR SHALL HAVE STREET FRONTAGE (COMPLIES) RETAIL USES ON THE GROUND FLOOR ARE NOT REQUIRED WITHIN FLOOD ZONES (COMPLIES)

#### 7. OFF-STREET PARKING REQUIREMENTS §4.3; APPENDIX A §17:9-42, §17:11-15, §17:11-22

NO NONRESIDENTIAL DRIVEWAY SHALL BE LOCATED WITHIN TEN (10) FEET OF AN EXISTING ADJACENT RESIDENTIAL PROPERTY NOR WITHIN FIVE (5) FEET OF ANY OTHER PROPERTY LINE, UNLESS OTHERWISE REGULATED IN THE CHAPTER. NO RESIDENTIAL DRIVEWAY SHALL BE CLOSER THAN TWO (2) FEET FROM A PROPERTY LINE; 26.7' PROPOSED (COMPLIES) MAXIMUM CURB CUT WIDTH OF 26 FEET FOR 20 FOOT DRIVEWAY PERMITTED; 24 FOOT DRIVEWAY WITH 34 FOOT CURB CUT PROPOSED (W)

FOR PARKING LOTS WITH ELEVEN (11) OR MORE SPACES, A MINIMUM OF FIVE PERCENT (5%) OF THE INTERIOR AREA OF THE PARKING LOT SHALL BE PROVIDED WITH PLANTING ISLANDS CONTAINING A MINIMUM OF ONE (1) DECIDUOUS TREE PLANTED FOR EVERY FIVE (5) PARKING SPACES ABUTTING SUCH ISLAND. FOR PARKING LOTS LOCATED UNDER A BUILDING, THE CITY LAND USE BOARDS MAY, INSTEAD OF REQUIRING PLANTING ISLANDS, REQUIRE A CONTRIBUTION TO THE PLAINFIELD SHADE TREE FUND IN ACCORDANCE WITH SECTION 17:9-49C OF THE CITY LAND USE ORDINANCE. ALL PARKING SHALL BE LOCATED IN THE REAR AND/OR SIDE YARD OF THE PROPERTY AND MAY NOT BE LOCATED BENEATH A BUILDING. (COMPLIES)

FIRST FLOOR PARKING AREAS SHALL BE APPROPRIATELY SCREENED WITH A WALL. THE WALL SHALL COMPRISE OF ARCHITECTURAL FEATURES AND FACADE MATERIALS THAT ARE COMPATIBLE WITH THE GROUND FLOOR COMMERCIAL USES. (COMPLIES) SHARED PARKING ARRANGEMENTS AMONG USES IS ENCOURAGED. (N/A)

MIN. PARKING SPACE SIZE: 9'X18' REQUIRED; 9'X18' PROPOSED [\$17:9-42Q] (COMPLIES)

MIN. PARKING AISLE WIDTH: 24' REQUIRED; 24' PROPOSED [§17:11-15B] (COMPLIES) MIN. TWO-WAY AISLE WIDTH WITH NO PARKING: 22' REQUIRED; 22' PROPOSED [\$17:11-15B] (COMPLIES)

COMMERCIAL: 1 SPACE / 300 SF

1 BEDROOM: 67 UNITS X 1.0 SPACE / UNIT = 67 SPACES REQUIRED 2 BEDROOM: 37 UNITS X 1.0 SPACE / UNIT = 37 SPACES REQUIRED RETAIL SALES: 972 SF X 1.0 SPACE / 300 SF = 4 SPACES REQUIRED

TOTAL REQUIRED: 108 SPACES TOTAL PROPOSED: 112 SPACES (COMPLIES)

8. BICYCLE PARKING REQUIREMENTS: §17:11-22

NO. 001 STORY MASONRY MINIMUM 1 SPACE PER EVERY 10 AUTOMOBILE PARKING SPACES REQUIRED:

112 AUTOMOBILE PARKING SPACES PROPOSED / 10 = 11 SPACES REQUIRED; 52 PROPOSED (COMPLIES)

BICYCLE PARKING MAY BE PROVIDED WITHIN A BUILDING, BUT THE LOCATION MUST BE READILY ACCESSIBLE. CENTRAL INDOOR BICYCLE STORAGE OR LOCKERS FOR RESIDENTS ARE

#### LOADING REQUIREMENTS: § APPENDIX A; §17:11-13

NO LOADING SPACE SHALL BE LOCATED WITHIN 40 FEET OF AN INTERSECTION OF ANY TWO (2) PUBLIC RIGHT-OF-WAYS. (N/A) MINIMUM NUMBER OF LOADING SPACES FOR BUSINESS AND COMMERCIAL USES UP TO 10,000 SF OF FLOOR AREA: 0 REQUIRED; 0 PROPOSED (COMPLIES) ALL LOADING AREAS SHOULD BE LOCATED IN A REAR YARD AND SCREENED FROM VIEW FROM PUBLIC RIGHT-OF-WAYS (N/A)

. 10. STREETSCAPE/LANDSCAPING/BUFFER REQUIREMENTS: § APPENDIX A; PLAINFIELD STREETSCAPE DESIGN MANUAL

SIDEWALKS SHALL COMPRISE OF A 4 FOOT WIDE AMENITIES ZONE, 4 FOOT WIDE WALKWAY ZONE, AND 5 FOOT WIDE STORE FRONT ZONE (COMPLIES) INCLUDED IN THE AMENITY ZONE, THERE SHALL BE A CONTINUOUS LANDSCAPED BUFFER OF 4 FEET BETWEEN THE PARKING LANE AND THE SIDE WALK, EXCEPT WHERE PARKING METERS, STREET LIGHTS, PEDESTRIAN CONNECTION BETWEEN PARKING LANE AND THE WALKWAY ZONE AND TRANSIT STOPS ARE REQUIRED. (COMPLIES)

BENCHES SHALL FACE THE STREET WHEN USED IN CONJUNCTION WITH A BUS STOP AND FACE THE SIDEWALK/BUILDING IN OTHER SITUATIONS

MINIMUM NON-RESIDENTIAL BUFFER WIDTH: 10' REQUIRED; 11.3' PROPOSED (COMPLIES)

. THE APPLICANT REQUESTS ANY AND ALL SUBMISSION WAIVERS THAT ARE NOT SPECIFICALLY IDENTIFIED HEREIN. TESTIMONY WILL BE SUPPLIED AT THE PUBLIC HEARING TO SUPPORT SAID SUBMISSION WAIVERS. 2. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS BY ALL OF THE PERMITTING AUTHORITIES ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE REQUIREMENTS AND STANDARDS OF THE LOCAL GOVERNING AUTHORITY. . THE SOILS REPORT AND RECOMMENDATIONS SET FORTH THEREIN ARE A PART OF THE REQUIRED CONSTRUCTION DOCUMENTS AND IN CASE OF CONFLICT SHALL TAKE PRECEDENCE UNLESS SPECIFICALLY NOTED

5. SITE CLEARING SHALL INCLUDE THE LOCATION AND REMOVAL OF ALL UNDERGROUND TANKS, PIPES, VALVES, ETC. 16. THE PROPERTY SURVEY SHALL BE CONSIDERED A PART OF THESE PLANS. 7. ALL DIMENSIONS SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING

WITH CONSTRUCTION FOR NECESSARY PLAN CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN. 18. SOLID WASTE TO BE DISPOSED OF BY CONTRACTOR IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

19. ALL EXCAVATED UNSUITABLE MATERIAL MUST BE TRANSPORTED TO AN APPROVED DISPOSAL LOCATION. 20. CONTRACTOR IS RESPONSIBLE FOR ALL SHORING REQUIRED DURING EXCAVATION AND SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT OSHA STANDARDS, AS WELL AS ADDITIONAL PROVISIONS TO ASSURE STABILITY OF CONTIGUOUS STRUCTURES, AS FIELD CONDITIONS DICTATE.

21. ALL CONTRACTORS MUST CARRY STATUTORY WORKERS COMPENSATION, EMPLOYERS LIABILITY INSURANCE AND APPROPRIATE LIMITS OF COMMERCIAL GENERAL LIABILITY INSURANCE (CGL). ALL CONTRACTORS MUST HAVE THEIR CGL POLICIES ENDORSED TO NAME DYNAMIC ENGINEERING CONSULTANTS, P.C. , ITS SUBCONSULTANTS AS ADDITIONAL INSURED AND TO PROVIDE CONTRACTUAL LIABILITY COVERAGE SUFFICIENT TO INSURE THE HOLD HARMLESS AND INDEMNITY OBLIGATIONS ASSUMED BY THE CONTRACTORS. ALL CONTRACTORS MUST FURNISH DYNAMIC ENGINEERING CONSULTANTS, P.C. WITH CERTIFICATES OF INSURANCE AS EVIDENCE OF THE REQUIRED INSURANCE PRIOR TO COMMENCING WORK AND UPON RENEWAL OF EACH POLICY DURING THE ENTIRE PERIOD OF CONSTRUCTION. IN ADDITION, ALL CONTRACTORS WILL, TO THE FULLEST EXTENT PERMITTED BY LAW, INDEMNIFY AND HOLD HARMLESS DYNAMIC ENGINEERING CONSULTANTS, P.C. AND ITS SUBCONSULTANTS FROM AND AGAINST ANY DAMAGES, LIABILITIES OR COSTS. INCLUDING REASONABLE ATTORNEYS' FEES AND DEFENSE COSTS, ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE PROJECT, INCLUDING ALL CLAIMS BY EMPLOYEES OF THE CONTRACTORS.

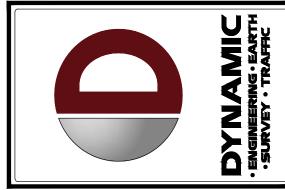
CONSTRUCTION/PROJECT SITE, SHALL RELIEVE THE GENERAL CONTRACTOR OF ITS OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING AND COORDINATING THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. DYNAMIC ENGINEERING CONSULTANTS, P.C. AND ITS PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY HEALTH OR SAFETY PROGRAMS OR PROCEDURES. THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOBSITE SAFETY. DYNAMIC ENGINEERING CONSULTANTS, P.C. SHALL BE INDEMNIFIED BY THE GENERAL CONTRACTOR AND SHALL BE MADE ADDITIONAL INSURED UNDER THE GENERAL CONTRACTOR'S POLICIES OF GENERAL LIABILITY 23. DYNAMIC ENGINEERING CONSULTANTS, P.C. SHALL REVIEW AND APPROVE OR TAKE OTHER APPROPRIATE ACTION ON THE CONTRACTOR SUBMITTALS, SUCH AS SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND OTHER DATA, WHICH THE CONTRACTOR IS REQUIRED TO SUBMIT, BUT ONLY FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH THE DESIGN CONCEPT AND THE INFORMATION SHOWN IN THE

CONSTRUCTION MEANS OR METHODS, COORDINATION OF THE WORK WITH OTHER TRADES OR CONSTRUCTION SAFETY PRECAUTIONS, ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. DYNAMIC ENGINEERING'S REVIEW SHALL BE CONDUCTED WITH REASONABLE PROMPTNESS WHILE ALLOWING SUFFICIENT TIME TO PERMIT ADEQUATE REVIEW. REVIEW OF A SPECIFIC ITEM SHALL NOT INDICATE THAT DYNAMIC ENGINEERING CONSULTANTS, P.C. HAS REVIEWED THE ENTIRE ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. DYNAMIC ENGINEERING CONSULTANTS, P.C. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS NOT BROUGHT TO THE ATTENTION OF DYNAMIC ENGINEERING CONSULTANTS. P.C. IN WRITING BY THE CONTRACTOR. DYNAMIC ENGINEERING CONSULTANTS. P.C. SHALL NO BE REQUIRED TO REVIEW PARTIAL SUBMISSIONS OR THOSE FOR WHICH SUBMISSIONS OF CORRELATED ITEMS HAVE NOT BEEN RECEIVED 24. IN AN EFFORT TO RESOLVE ANY CONFLICTS THAT ARISE DURING THE DESIGN AND CONSTRUCTION OF THE PROJECT OR FOLLOWING THE COMPLETION OF THE PROJECT, DYNAMIC ENGINEERING CONSULTANTS, P.C AND THE CONTRACTOR MUST AGREE THAT ALL DISPUTES BETWEEN THEM ARISING OUT OF OR RELATING TO THIS AGREEMENT OR THE PROJECT SHALL BE SUBMITTED TO NONBINDING MEDIATION UNLESS THE

PARTIES MUTUALLY AGREE OTHERWISE. 25. THE CONTRACTOR MUST INCLUDE A MEDIATION PROVISION IN ALL AGREEMENTS WITH INDEPENDENT SUBCONTRACTORS AND CONSULTANTS RETAINED FOR THE PROJECT AND TO REQUIRE ALL INDEPENDENT CONTRACTORS AND CONSULTANTS ALSO TO INCLUDE A SIMILAR MEDIATION PROVISION IN ALL AGREEMENTS WITH THEIR SUBCONTRACTORS, SUBCONSULTANTS, SUPPLIERS AND FABRICATORS, THEREBY PROVIDING FOR MEDIATION AS THE PRIMARY METHOD FOR DISPUTE RESOLUTION BETWEEN THE PARTIES TO ALL THOSE AGREEMENTS 26. IF THE CONTRACTOR DEVIATES FROM THE PLANS AND SPECIFICATIONS, INCLUDING THE NOTES CONTAINED THEREON, WITHOUT FIRST OBTAINING PRIOR WRITTEN AUTHORIZATION FOR SUCH DEVIATIONS FROM THE

OWNER AND ENGINEER, IT SHALL BE RESPONSIBLE FOR THE PAYMENT OF ALL COSTS TO CORRECT ANY WORK DONE, ALL FINES OR PENALTIES ASSESSED WITH RESPECT THERETO AND ALL COMPENSATORY OR PUNITIVE DAMAGES RESULTING THEREFROM AND IT SHALL INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ALL SUCH COSTS TO CONNECT ANY SUCH WORK AND FROM ALL SUCH FINES AND PENALTIES, COMPENSATION AND PUNITIVE DAMAGES AND COSTS OF ANY NATURE RESULTING THEREFROM. 27. ALL TRAFFIC SIGNS AND STRIPING SHALL FOLLOW THE REQUIREMENTS SPECIFIED IN THE MANUAL ON "UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" PUBLISHED BY THE FEDERAL HIGHWAY

28. THE BUILDING SETBACK DIMENSIONS ILLUSTRATED AND LISTED ON THE SITE PLAN DRAWINGS ARE MEASURED FROM THE OUTSIDE SURFACE OF BUILDING WALLS. THESE SETBACK DIMENSIONS DO NOT ACCOUNT FOR ROOF OVERHANGS, ORNAMENTAL ELEMENTS, SIGNAGE OR OTHER EXTERIOR EXTENSIONS UNLESS SPECIFICALLY NOTED. 29. CONTRACTOR ACKNOWLEDGES HE HAS READ AND UNDERSTOOD THE DESIGN PHASE SOIL PERMEABILITY AND GROUNDWATER TEST RESULTS IN THE STORMWATER MANAGEMENT REPORT AND CONTRACTORS RESPONSIBILITIES INCLUDE NECESSARY PROVISIONS TO ACHIEVE THE DESIGN PERMEABILITY IN THE FIELD. 30. CONTRACTOR TO BE ADVISED THAT THE ENGINEER WAS NOT PROVIDED WITH FINAL FLOOR PLAN DRAWINGS FOR THE BUILDING AT THE TIME OF SITE PLAN DESIGN. AS A RESULT. ENTRANCE DOOR LOCATIONS AS DEPICTED HEREON MAY NOT BE FINAL AND MUST BE CONFIRMED WITH THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. THE HANDICAP ACCESSIBLE PARKING SPACES AND THE ASSOCIATED RAMPS AND ACCESSIBLE ROUTE MUST COMPLY WITH NJAC 5:23-7 AND THE HANDICAP PARKING SPACES MUST BE LOCATED AS THE NEAREST SPACES TO THE ENTRANCE. CONTRACTOR TO NOTIFY OWNER AND ENGINEER



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CONSTRUCTION CHECK DA	IEWAL, LLC IILDING IN COUNTY, NEW JERSES
CONSTRUCTION CHECK DATE	PROJECT: <b>803 S URBAN RENEWAL, LLC</b> **Proposed Mixed use Building  **Block 645, lot 12  **803 South avenue  **City of Plainfield, union county, new Jerses
CONSTRUC	PROJECT:



### **DYNAMIC ENGINEERING**

LAND DEVELOPMENT CONSULTING • PERMITTING GEOTECHNICAL • ENVIRONMENTAL TRAFFIC • SURVEY • PLANNING & ZONING 245 Main Street, Suite 110 Chester, NJ 07930 T: 908.879.9229 | F: 908.879.0222

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BRETT W. SKAPINETZ

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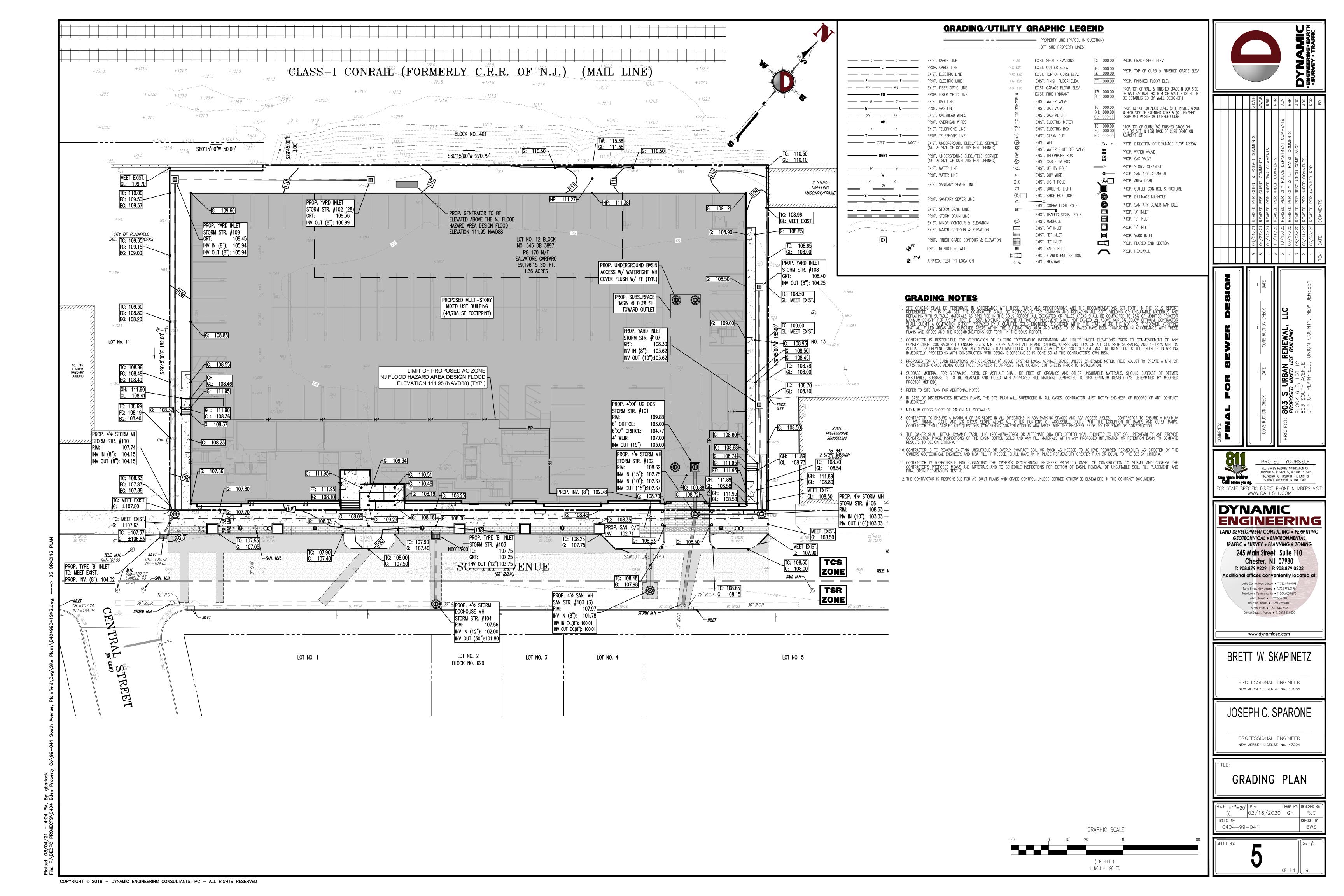
PROFESSIONAL ENGINEER

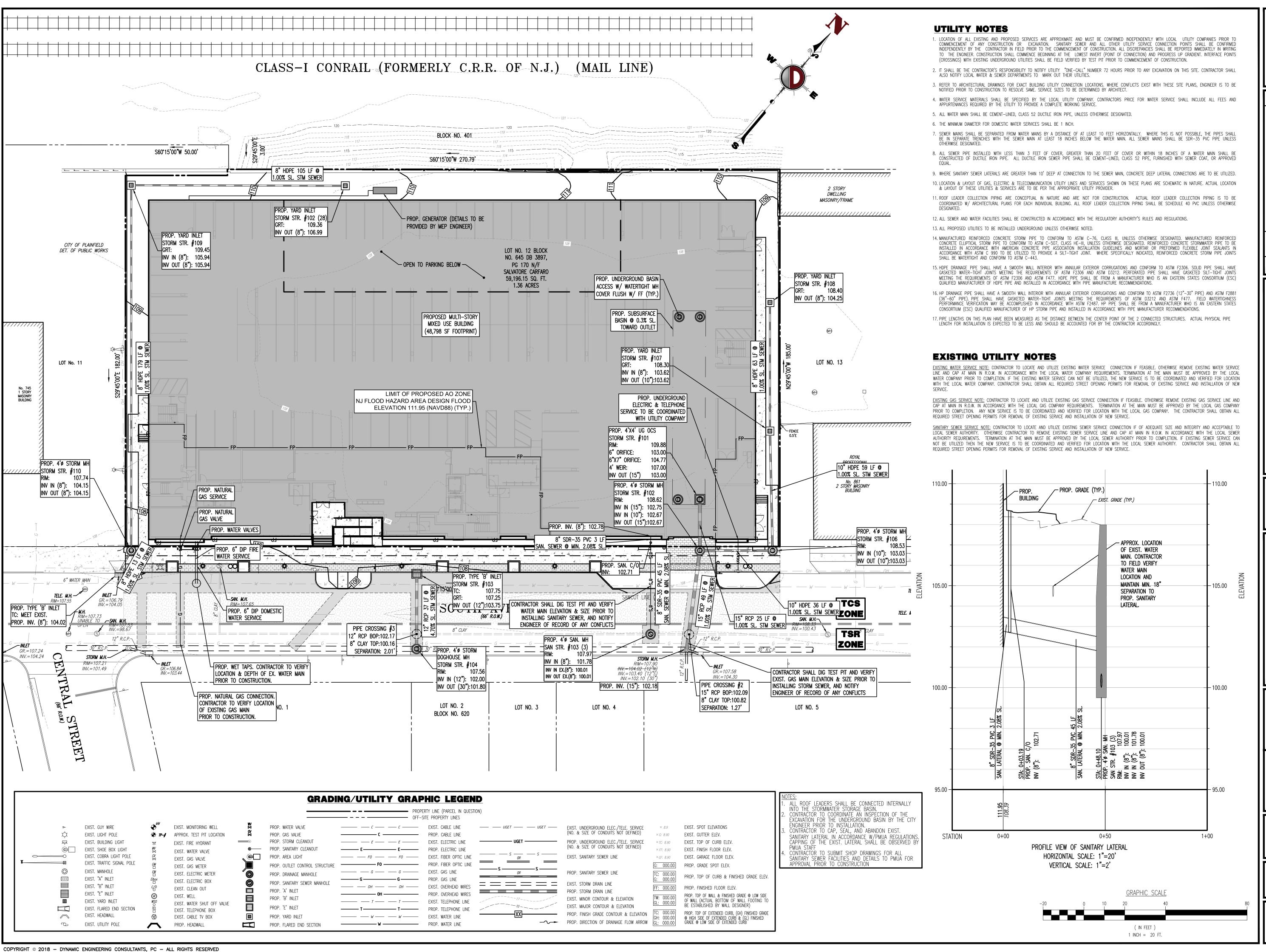
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SITE PLAN

02/18/2020 GH CHECKED BY 0404-99-041

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DYNAMIC ENGINEERING - EARTH -SURVEY - TRAFFIC

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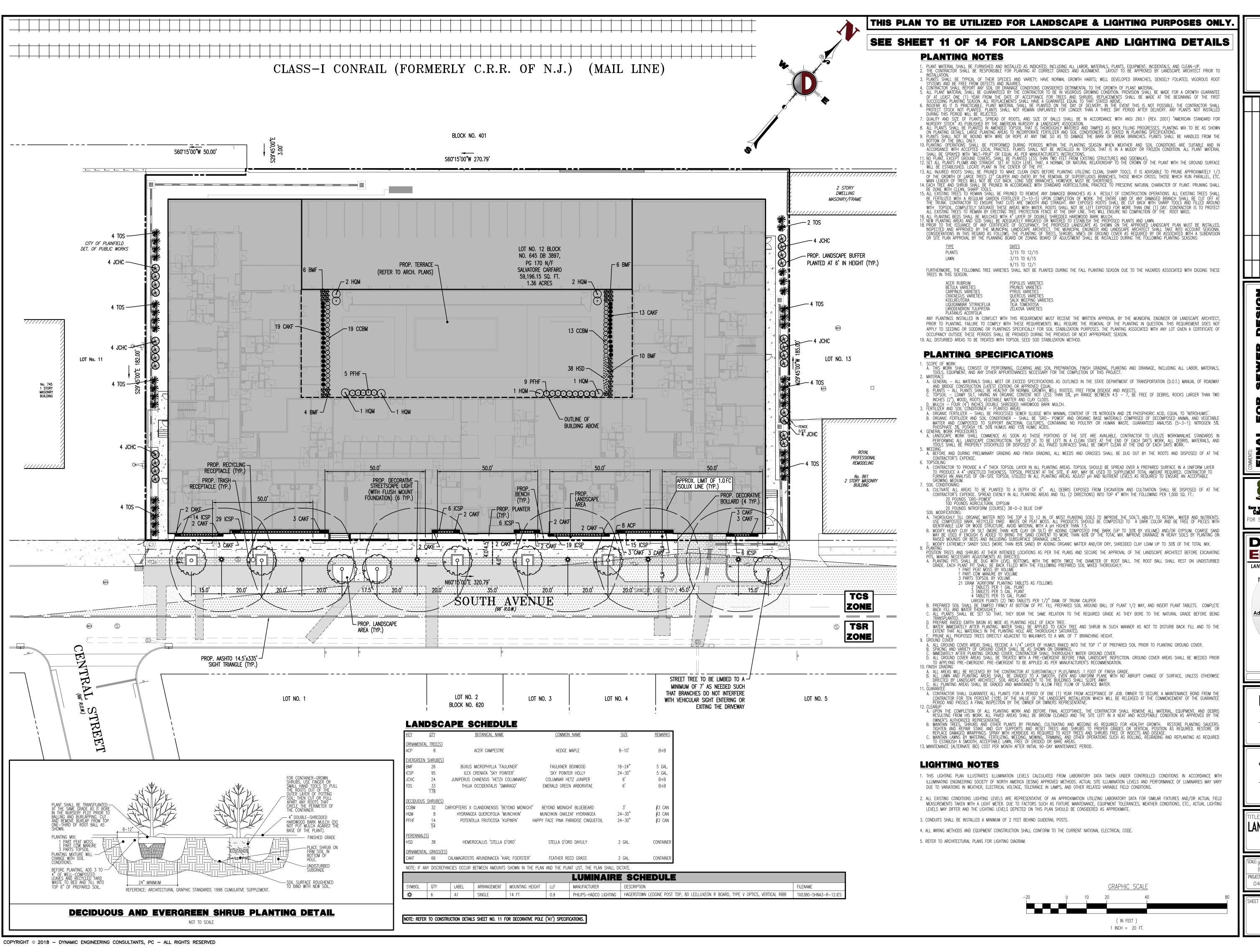
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PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 47204

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Rev. #:



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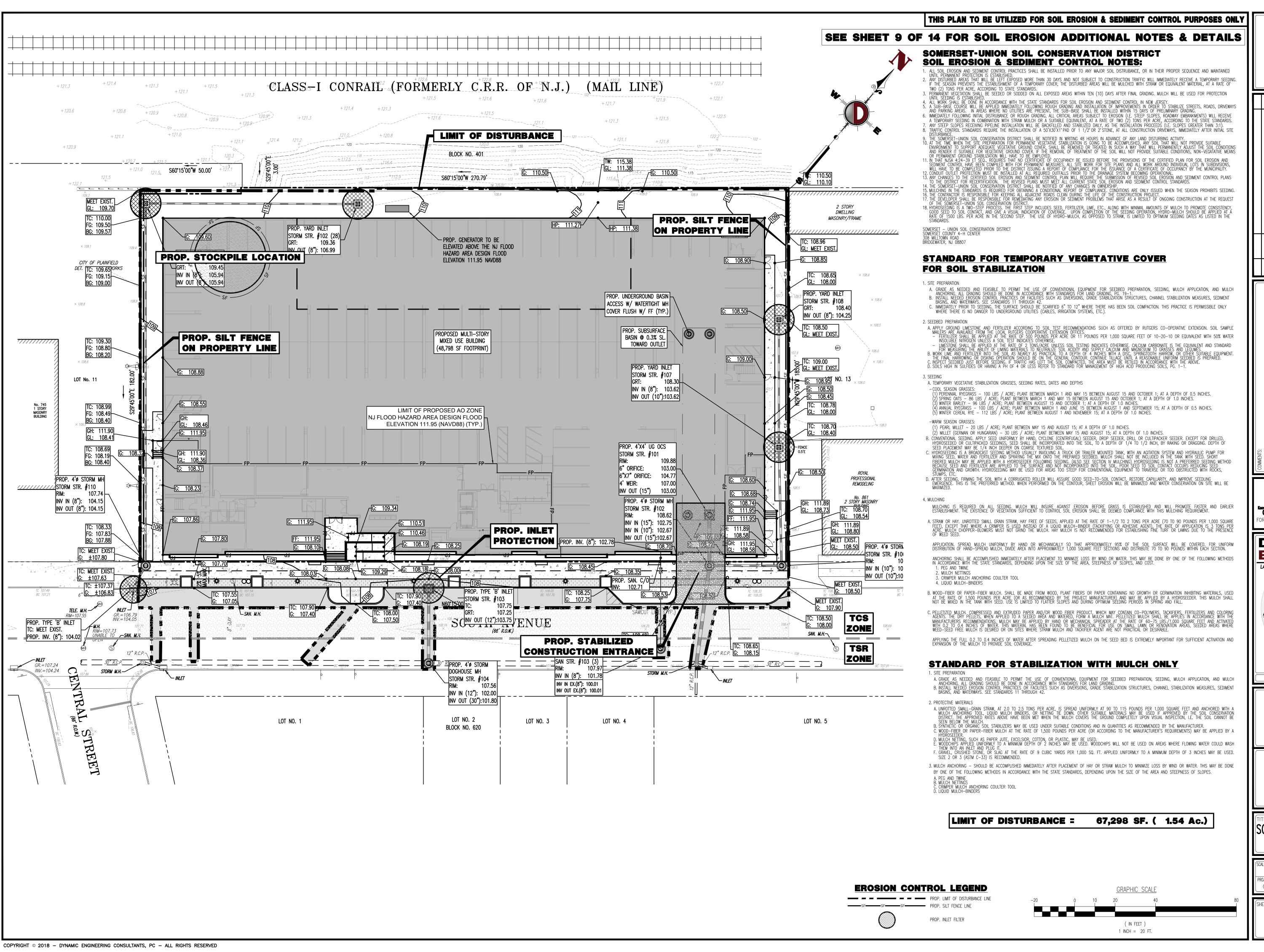
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LANDSCAPING, STREETSCAPE & LIGHTING PLAN

|02/18/2020| GH | PROJECT No: CHECKED BY 0404-99-041 BWS

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PROFESSIONAL ENGINEER

NEW JERSEY LICENSE No. 41985

JOSEPH C. SPARONE

PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 47204

SOIL EROSION & SEDIMENT CONTROL PLAN

02/18/2020 JTG RJC PROJECT No: 0404-99-041

OF 14

THE CONTROL OF DUST ON CONSTRUCTION SITES AND ROADS.

TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, REDUCE ON-AND OFF-

WHERE APPLICABLE

THE FOLLOWING METHODS SHOULD BE CONSIDERED FOR CONTROLLING DUST:

MULCHES - SEE STANDARDS FOR STABILIZATION WITH MULCHES ONLY

SITE DAMAGE AND HEALTH HAZARDS, AND IMPROVE TRAFFIC SAFETY.

<u>VEGETATIVE COVER</u> - SEE STANDARDS FOR TEMPORARY VEGETATIVE COVER, PERMANENT VEGETATIVE

COVER, AND PERMANENT STABILIZATION WITH SOD. SPRAY-ON ADHESIVES - ON MINERAL SOILS (NO EFFECTIVE ON MOCK SOILS). KEEP TRAFFIC OFF

	WATER DILUTION	TYPE OF NOZZLE	APPLY GALLONS/ACRE		
ANIONIC ASPHALT	7:1	COARSE SPRAY	1,200		
EMULSION					
LATEX EMULSION RESIN IN WATER	12.5:1	FINE SPRAY	235		
	4:1	FINE SPRAY	300		

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.

<u>SPRINKLING</u> - 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.

<u>CALCIUM CHLORIDE</u> - SHALL BE IN THE FORM OF LOOSE, DRY GRANULES OR 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.

#### STANDARD FOR PERMANENT STABILIZATION WITH SOD

METHODS AND MATERIALS

- 1. CULTIVATED SOD IS PREFERRED OVER NATIVE OR PASTURE SOD. SPECIFY "CERTIFIED SOD," OR OTHER HIGH QUALITY CULTIVATED
- 2. SOD SHOULD BE FREE OF WEEDS AND UNDESIRABLE COARSE WEEDY GRASSES.
- 3. SOD SHOULD BE OF UNIFORM THICKNESS, APPROXIMATELY 5/8 INCH, PLUS OR MINUS 1/4 INCH, AT TIME OF CUTTING. (EXCLUDES TOP GROWTH.)
- 4. SOD SHOULD BE VIGOROUS AND DENSE AND BE ABLE TO RETAIN ITS OWN SHAPE AND WEIGHT WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP FROM THE UPPER 10 PERCENT OF THE STRIP. BROKEN PADS OR TORN AND UNEVEN ENDS WILL NOT BE ACCEPTABLE
- 5. FOR DRAUGHT SITES, A SOD OF KENTUCKY 31 TALL FESCUE AND BLUEGRASS IS PREFERRED OVER A STRAIGHT BLUEGRASS SOD. 6. ONLY MOIST, FRESH, UNHEATED SOD SHOULD BE USED. SOD SHOULD BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A
- PERIOD OF 36 HOURS I. <u>SITE PREPARATION</u> A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR LIMING, FERTILIZING, AND SOIL
- PREPARATION. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARD FOR LAND GRADING, PAGE 4.11. B. INSTALL NEEDED EROSION CONTROL PRACTICES AND FACILITIES, SUCH AS INTERCEPTOR DITCHES, DIKES AND TERRACES, EROSION STOPS, AND DE-SILTING BASINS. SEE STANDARDS 4.2 THROUGH 4.16. II. SOIL PREPARATION
- A. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TESTS SUCH AS THOSE OFFERED BY RUTGERS UNIVERSITY SOIL TESTING LABORATORY. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL COOPERATIVE EXTENSION SERVICE OFFICE. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-10-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN AND INCORPORATED INTO THE SURFACE 4". IN ADDITION, 300 POUNDS 38-0-0 PER ACRE OR EQUIVALENT OF SLOW RELEASE NITROGEN MAY BE USED IN LIEU OF TOP-DRESSING. APPLY LIMESTONE AS FOLLOWS: SOIL TEXTURE TONS/ACRE LBS/1000 SQ. FT
- CLAY, CLAY LOAM, AND HIGH ORGANIC SOIL SANDY LOAM, LOAM, SILT LOAM PULVERIZED DOLOMITE LIMESTONE IS PREFERRED FOR MOST SOILS SOUTH OF THE NEW BRUNSWICK-TRENTON LINE. B. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING TOOTH HARROW. OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCOING OPERATION SHOULD BE ON THE GENERAL
- C. REMOVE FROM THE SURFACE ALL OBJECTS THAT WOULD PREVENT GOOD SOD TO SOIL CONTACT AND REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLODS, LUMPS, OR OTHER UNSUITABLE MATERIAL D. INSPECT SITE JUST BEFORE SEEDING, IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RE-TILLED AND FIRMED

CONTOUR, CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM FINE SEEDBED IS PREPARED.

- A. SOD STRIPS SHOULD BE LAID ON THE CONTOUR, NEVER UP AND DOWN THE SLOPE, STARTING AT THE BOTTOM OF THE SLOPE AND WORKING UP. ON STEEP SLOPES, THE USE OF LADDERS WILL FACILITATE THE WORK AND PREVENT DAMAGE TO THE SOD. DURING PERIODS OF HIGH TEMPERATURE, LIGHTLY IRRIGATE THE SOIL IMMEDIATELY PRIOR TO LAYING THE SOD. B. PLACE SOD STRIPS WITH SNUG. EVEN JOINTS THAT ARE STAGGERED. OPEN SPACES INVITE EROSION.
- C. ROLL OR TAMP SOD IMMEDIATELY FOLLOWING PLACEMENT TO INSURE SOLID CONTACT OF ROOT MAT AND SOIL SURFACE. DO NOT OVERLAP SOD. ALL JOINTS SHOULD BE BUTTED TIGHTLY IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE DRYING OF THE
- D. ON SLOPES GREATER THAN 3 TO 1, SECURE SOD TO SURFACE SOIL WITH WOOD PEGS, WIRE STAPLES, OR SPLIT SHINGLES (8
- TO 10 INCHES LONG BY 3/4 INCH WIDE). E. SURFACE WATER CANNOT ALWAYS BE DIVERTED FROM FLOWING OVER THE FACE OF THE SLOPE. BUT A CAPPING STRIP OF HFAVY JUTE OR PLASTIC NETTING, PROPERLY SECURED, ALONG THE CROWN OF THE SLOPE AND EDGES WILL PROVIDE EXTRA PROTECTION AGAINST LIFTING AND UNDERCUTTING OF SOD. THE SAME TECHNIQUE CAN BE USED TO ANCHOR SOD IN WATER CARRYING CHANNELS AND OTHER CRITICAL AREAS. WIRE STAPLES MUST BE USED TO ANCHOR NETTING IN CHANNEL WORK.
- IMMEDIATELY FOLLOWING INSTALLATION, SOD SHOULD BE WATERED UNTIL MOISTURE PENETRATES THE SOIL LAYER BENEATH SOD TO A DEPTH OF 4 INCHES. MAINTAIN OPTIMUM MOISTURE FOR AT LEAST TWO WEEKS.
- IF SLOW RELEASE NITROGEN IS USED IN ADDITION TO SUGGESTED FERTILIZER, THEN A FOLLOW-UP OF TOP DRESSING IS NOT MANDATORY, EXCEPT WHERE GROSS NITROGEN DEFICIENCY EXISTS IN THE SOIL TO THE EXTENT THAT TURF FAILURE MAY

TOP-DRESS WITH 10-0-10 OR EQUIVALENT AT 400 POUNDS PER ACRE OR 7 POUNDS PER 1,000 SQUARE FEET EVERY 3 TO 5 WEEKS UNTIL THE GROSS NITROGEN DEFICIENCY IN THE TURF IS AMELIORATED.

#### **SEQUENCE OF CONSTRUCTION:**

- PHASE 1: INSTALL STONE ANTI-TRACKING PAD AND OTHER SOIL EROSION AND SEDIMENT CONTROL MEASURES INCLUDING DOWNSLOPE PERIMETER AND SILT FENCING. (2 DAYS)
- : CLEAR AND ROUGH GRADE FOR`NEW BÚILDING SITE AND OTHER STRUCTURES REQUIRING EXCAVATION. (2 WEEKS) EXCAVATE FOR BUILDING FOUNDATION AND INSTALL UNDERGROUND PIPING AND DRAINAGE STRUCTURES. (4 WEEKS) PHASE 4: COMPLETE BUILDING CONSTRUCTION. (12–18 MONTHS)
- PHASE 5: EXCAVATE AND INSTALL ON-SITE IMPROVEMENTS INCLUDING CURBING AND RETAINING WALLS. (1 MONTH) PHASE 6: FINAL GRADING ON SITE. (1 WEEK)
- PHASE 7: INSTALL PAVING, CONCRETE, AND FINAL VEGETATION INCLUDING SEEDING AND LANDSCAPING. (1 WEEK)
  PHASE 8: REMOVE SOIL EROSION AND SEDIMENT CONTROL MEASURES INCLUDING DOWNSLOPE PERIMETER AND SILT FENCING UPON

#### STANDARD FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION

- A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARD FOR LAND GRADING. B. IMMEDIATELY PRIOR TO SEEDING AND TOPSOIL APPLICATION, THE SUBSOIL SHALL BE EVALUATED FOR COMPACTION IN ACCORDANCE WITH THE C. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING THE SOIL STRUCTURE. A UNIFORM APPLICATION
- TO A DEPTH OF 5 INCHES (UNSETTLED) IS REQUIRED ON ALL SITES. TOPSOIL SHALL BE AMENDED WITH ORGANIC MATTER, AS NEEDED, IN ACCORDANCE WITH THE STANDARD FOR TOPSOILING. D. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE-STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS.

- A. UNIFORMLY APPLY GROUND LIMESTONE AND FERTILIZER TO TOPSOIL WHICH HAS BEEN SPREAD AND FIRMED, ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS CO-OPERATIVE EXTENSION SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL RUTGERS COOPERATIVE EXTENSION OFFICES (HTTP://NJAES.RUTGERS.EDU/COUNTY/) FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-10-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE AND INCORPORATED INTO THE SURFACE 4
- INCHES. IF FERTILIZER IS NOT INCORPORATED, APPLY ONE-HALF THE RATE DESCRIBED ABOVE DURING SEEDBED PREPARATION AND REPEAT ANOTHER ONE-HALF RATE APPLICATION OF THE SAME FERTILIZER WITHIN 3 TO 5 WEEKS AFTER SEEDING. B. WORK LIME AND FERTILIZER INTO THE TOPSOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING-TOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISKING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM SEEDBED IS PREPARED.
- C. HIGH ACID PRODUCING SOIL. SOILS HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDE SHALL BE COVERED WITH A MINIMUM OF 12 INCHES OF SOIL HAVING A PH OF 5 OR MORE BEFORE INITIATING SEEDBED REPARATION. SEE STANDARD FOR MANAGEMENT OF HIGH ACID-PRODUCING SOILS FOR SPECIFIC REQUIREMENTS.

#### SEFDING A. PERMANENT VEGETATIVE MIXTURES & PLANTING RATES

5) KY. BLUEGRASS –

HARD FESCUE -175 LBS/ACRE 4 LBS/1000 SQ.FT CHEWING FESCUE : 175 LBS/ACRE 4 LBS/1000 SQ.F STRONG CREEPING RED FESCUE -175 LBS/ACRE 4 LBS/1000 SQ.FT PERENNIAL RYEGRASS -45 LBS/ACRE 1 LBS/1000 SQ.FT

45 LBS/ACRE

B. CONVENTIONAL SEEDING IS PERFORMED BY APPLYING SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXCEPT FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL WITHIN 24 HOURS OF SEEDBED PREPARATION TO A DEPTH OF 1/4 TO 1/2 INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE-TEXTURED SOIL

C. AFTER SEEDING, FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND

1 LBS/1000 SQ.FT.

IMPROVE SEEDLING EMERGENCE. THIS IS THE PREFERRED METHOD. WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WILL BE MINIMIZED AND WATER CONSERVATION ON SITE WILL BE MAXIMIZED. D. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK, OR TRAILER-MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORTFIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. (ALSO SEE SECTION 4-MULCHING BELOW). HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AND FERTILIZER ARE APPLIED TO THE

#### 4. MULCHING

AND GROWTH.

MULCHING IS REQUIRED ON ALL SEEDING. MULCH WILL PROTECT AGAINST EROSION BEFORE GRASS IS ESTABLISHED AND WILL PROMOTE FASTER AND EARLIER ESTABLISHMENT. THE EXISTENCE OF VEGETATION SUFFICIENT TO CONTROL SOIL EROSION SHALL BE DEEMED COMPLIANCE WITH THIS MULCHING REQUIREMENT.

SURFACE AND NOT INCORPORATED INTO THE SOIL. WHEN POOR SEED TO SOIL CONTACT OCCURS, THERE IS A REDUCED SEED GERMINATION

- A. STRAW OR HAY. UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, APPLIED AT THE RATE OF 1.5 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1,000 SQUARE FEET), EXCEPT THAT WHERE A CRIMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE AGENT), THE RATE OF APPLICATION IS 3 TONS PER ACRE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MULCH. HAY MULCH IS NOT RECOMMENDED FOR ESTABLISHING FINE TURF OR LAWNS DUE TO THE PRESENCE OF WEED SEED.
- APPLICATION. SPREAD MULCH UNIFORMLY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 85% OF THE SOIL SURFACE WILL BE COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE FEET SECTIONS AND DISTRIBUTE 70 TO 90 POUNDS WITHIN EACH SECTION.
- ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS IN ACCORDANCE WITH THE STATE STANDARDS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES,
- PEG AND TWINE 2. MULCH NETTINGS

3. CRIMPER MULCH ANCHORING COULTER TOOL

4. LIQUID MULCH-BINDERS

1/2" PREFORMED JOINT FILLER ~

BITUMINOUS TYPE, CONFORMING

TO A.A.S.H.T.O. SPEC'S M-33

- B. WOOD-FIBER OR PAPER-FIBER MULCH SHALL BE MADE FROM WOOD, PLANT FIBERS OR PAPER CONTAINING NO GROWTH OR GERMINATION INHIBITING MATERIALS, USED AT THE RATE OF 1,500 POUNDS PER ACRE (OR AS RECOMMENDED BY THE PRODUCT MANUFACTURER) AND MAY BE APPLIED BY A HYDROSEEDER. MULCH SHALL NOT BE MIXED IN THE TANK WITH SEED. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL.
- C. PELLETIZED MULCH COMPRESSED AND EXTRUDED PAPER AND/OR WOOD FIBER PRODUCT, WHICH MAY CONTAIN CO-POLYMERS, TACKIFIERS, FERTILIZERS, AND COLORING AGENTS. THE DRY PELLETS, WHEN APPLIED TO A SEEDED AREA AND WATERED, FORM A MULCH MAT. PELLETIZED MULCH SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MULCH MAY BE APPLIED BY HAND OR MECHANICAL SPREADER AT THE RATE OF 60-75 LBS/1,000 SQUARE FEET AND ACTIVATED WITH 0.2 TO 0.4 INCHES OF WATER. THIS MATERIAL HAS BEEN FOUND TO BE BENEFICIAL FOR USE ON SMALL LAWN OR RENOVATION AREAS, SEEDED AREAS WHERE WEEDSEED FREE MULCH IS DESIRED, OR ON SITES WHERE STRAW MULCH AND TACKIFIER AGENT ARE NOT PRACTICAL OR DESIRABLE. APPLYING THE FULL 0.2 TO 0.4 INCHES OF WATER AFTER SPREADING PELLETIZED MULCH ON THE SEED BED IS EXTREMELY IMPORTANT FOR SUFFICIENT ACTIVATION AND EXPANSION OF THE MULCH TO PROVIDE SOIL COVERAGE.

— ASPHALT JOINT SEALER

NOTE: SEE CURB DETAIL FOR MATERIAL SPECIFICATIONS, BEDDING REQUIREMENTS, ETC

VERTICAL CURB TAPER DETAIL

SEE PLAN

PARALLEL PARKING STALL STRIPING DETAIL

WHITE STRIPE

— TRANSITION CURB

#### WOOD OR METAL FENCE POSTS SPACED 8'-0" O.C. DRAWSTRING RUNNING THROUGH FABRIC ALONG - FABRIC SECURED TO POST WITH METAL FASTENERS AND TOP OF FENCE. DISTURBANCE<sub>7</sub> REINFORCEMENT BETWEEN FASTENER AND FABRIC - DRAWSTRING RUNNING THROUGH FABRIC ALONG TOP OF FENCE. ► FXISTING UNDISTURBED GROUND ∴DIG 6" WIDE AND 6" DEEP TRENCH, BURY BOTTOM 1'-0" OF FILTER FABRIC, TAMP IN PLACE

PLACE SILT FENCE AT LOCATIONS AS SHOWN ON THE SOIL EROSION AND SEDIMENT CONTROL PLAN. 2. THE SLOPE OF THE LAND FOR AT LEAST 30 FEET ADJACENT TO ANY SILT FENCE SHALL NOT EXCEED 5 PERCENT 3 SHT FENCE SHALL RE INSTALLED SO WATER CANNOT RYPASS THE FENCE AROLIND THE SIDES 4. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE AS PROMPTLY AS POSSIBLE. 5. SILT FENCE SHALL REMAIN IN PLACE FOR THE DURATION OF THE PROJECT UNLESS OTHERWISE INSTRUCTED BY THE TOWNSHIP ENGINEER OR SOIL CONSERVATION DISTRICT. 6. THE BARRIER SHALL BE REMOVED WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM 7. FENCE POSTS SHALL BE SPACED 8 FEET CENTER-TO-CENTER OR CLOSER. THEY SHALL EXTEND AT LEAST 2 FEET INTO THE GROUND AND EXTEND AT LEAST 2 FEET ABOVE GROUND. POSTS SHALL BE CONSTRUCTED OF HARDWOOD A MIN. DIAMETER THICKNESS OF 1 1/2 INCHES. 8. A METAL FENCE WITH 6 INCH OR SMALLER OPENINGS AND AT LEAST 2 FEET HIGH MAY BE UTILIZED, FASTENED TO THE FENCE POSTS, T PROVIDE REINFORCEMENT AND SUPPORT TO THE GEOTEXTILE FABRIC WHERE SPACE FOR OTHER PRACTICES IS LIMITED AND HEAVY SEDIMENT 9. A GEOTEXTILE FABRIC, RECOMMENDED FOR SUCH USE BY THE MANUFACTURER, SHALL BE BURIED AT LEAST 6 INCHES DEEP IN THE GROUND. THE FABRIC SHALL EXTEND AT LEAST 2 FEET ABOVE GROUND. FABRIC MUST BE SECURELY FASTENED TO THE POSTS USING A SYSTEM CONSISTING OF METAL FASTENERS (NAILS OR STAPLES) AND HIGH STRENGTH REINFORCEMENT MATERIAL (NYLON WEBBING, GROMMETS, WASHERS ETC.) PLACED

BETWEEN THE FASTENER AND THE GEOTEXTILE FABRIC. THE FASTENING SYSTEM SHALL RESIST TEARING AWAY FROM THE POST. THE FABRIC SHALL

SILT FENCE DETAIL

NOT TO SCALE

SEE CHART 1

PROVIDE APPROPRIATE TRANSITION BETWEEN STABILIZED

PLAN VIEW

(1) AS PRESCRIBED BY LOCAL ORDINANCE OR OTHER GOVERNING AUTHORITY

LENGTH OF STONE REQUIRED

COARSE GRAINED SOILS FINE GRAINED SOILS

ENTIRE ENTRANCE STABILIZED WITH FABC BASE COURSE (1

CONSTRUCTION ENTRANCE AND PUBLIC R.O.W.

INCORPORATE A DRAWSTRING IN THE TOP PORTION OF THE FENCE FOR ADDED STRENGTH.

GROUND

FXISTING

GROUND

1" - 2 1/2" CLEAN STONE-

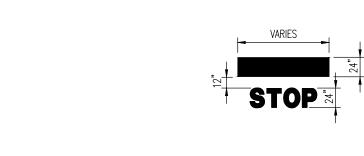
PERCENT SLOPE

OF ROADWAY

## CROSSING SUBJECT

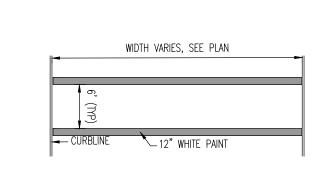
ITY, COUNTY, STATE AND MUA DETAILS TO SUPERCEDE DYNAMIC ENGINEERING DETAILS WHERE APPLICABLE

#### "PEDESTRIAN CROSSING & DRIVEWAY SUBJECT TO FLOODING" SIGN DETAIL



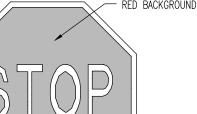
NOTE: ARROWS AND WORDS CAN BE ARRANGED IN OTHER COMBINATIONS THAN THOSE ILLUSTRATED HERE TO ACHIEVE DESIRED RESULT. ALL PAINT TO BE THERMOPLASTIC.

### PAINTED MARKING DETAILS

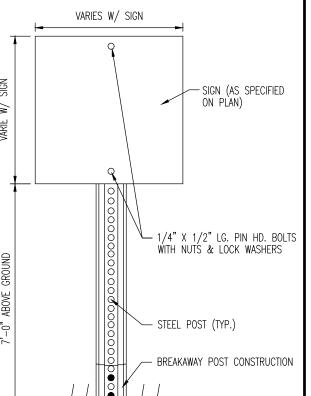


#### STABILIZED CONSTRUCTION ENTRANCE

#### PAINTED CROSSWALK STRIPING DETAIL NOT TO SCALE



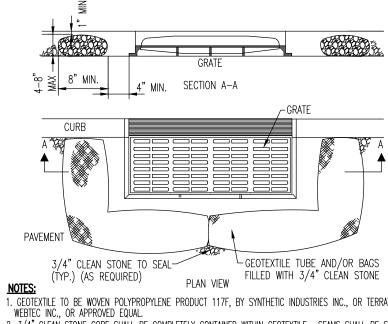
#### **R1-1 SIGN DETAIL**



#### - MAINTAIN STOCK PILE SURFACE IN ACCORDANCE WITH TEMPORARY SLOPE TYP.) STABILIZATION NOTES CONSTRUCT SILT FENCE OR HAYBALES — (AS NEEDED) AROUND PERIMETER OF

#### TEMPORARY STOCKPILE DETAIL NOT TO SCALE

STOCKPILE (SEE DETAIL ON THIS SHEET)



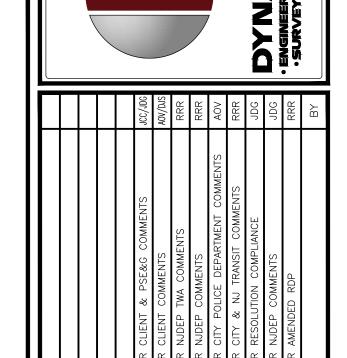
1. GEOTEXTILE TO BE WOVEN POLYPROPYLENE PRODUCT 117F, BY SYNTHETIC INDUSTRIES INC., OR TERRATEX SC, BY 2. 3/4" CLEAN STONE CORE SHALL BE COMPLETELY CONTAINED WITHIN GEOTEXTILE. SEAMS SHALL BE SEWN OR CLOSED BY SUITABLE MECHANICAL MEANS TO PREVENT LEAKAGE OF STONE.

3. WHERE NO CURB IS PRESENT, BARRIER SHALL COMPLETELY ENCIRCLE THE DRAIN INLET.

4. INLET GRATE OPENING IS TO BE KEPT CLEAR OF OBSTRUCTIONS AT ALL TIMES. 5. THE PROTECTION DEVICE WILL BE DESIGNED TO CAPTURE OR FILTER RUNOFF FROM THE 1 YEAR, 24 HOUR STORM 6. OTHER METHODS THAT ACCOMPLISH THE PURPOSE OF STORM SEWER INLET PROTECTION MAY BE USED IF APPROVED BY THE SOIL CONSERVATION DISTRICT. 7. INSPECTIONS SHALL BE FREQUENT. MAINTENANCE, REPAIR, AND REPLACEMENT SHALL BE MADE PROMPTLY, AS NEEDED. THE BARRIER SHALL BE REMOVED WHEN THE AREA DRAINING TOWARDS THE INLET HAS BEEN STABILIZED.

> INLET FILTER DETAIL NOT TO SCALE

SIGN POST DETAIL NOT TO SCALE



ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE

FOR STATE SPECIFIC DIRECT PHONE NUMBERS VI:

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Toms River, New Jersey • T: 732.974.0198 Newtown, Pennsylvania • T: 267.685.0276 Allen, Texas • T: 972.534.2100 Houston, Texas • T: 281.789.6400 Austin, Texas • T: 512.646.2646 Delray Beach, Florida • T: 561.921.8570

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BRETT W. SKAPINETZ

PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 41985

JOSEPH C. SPARONE

PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 47204

CONSTRUCTION **DETAILS** 

(v) SHOWN 02/18/2020 GH

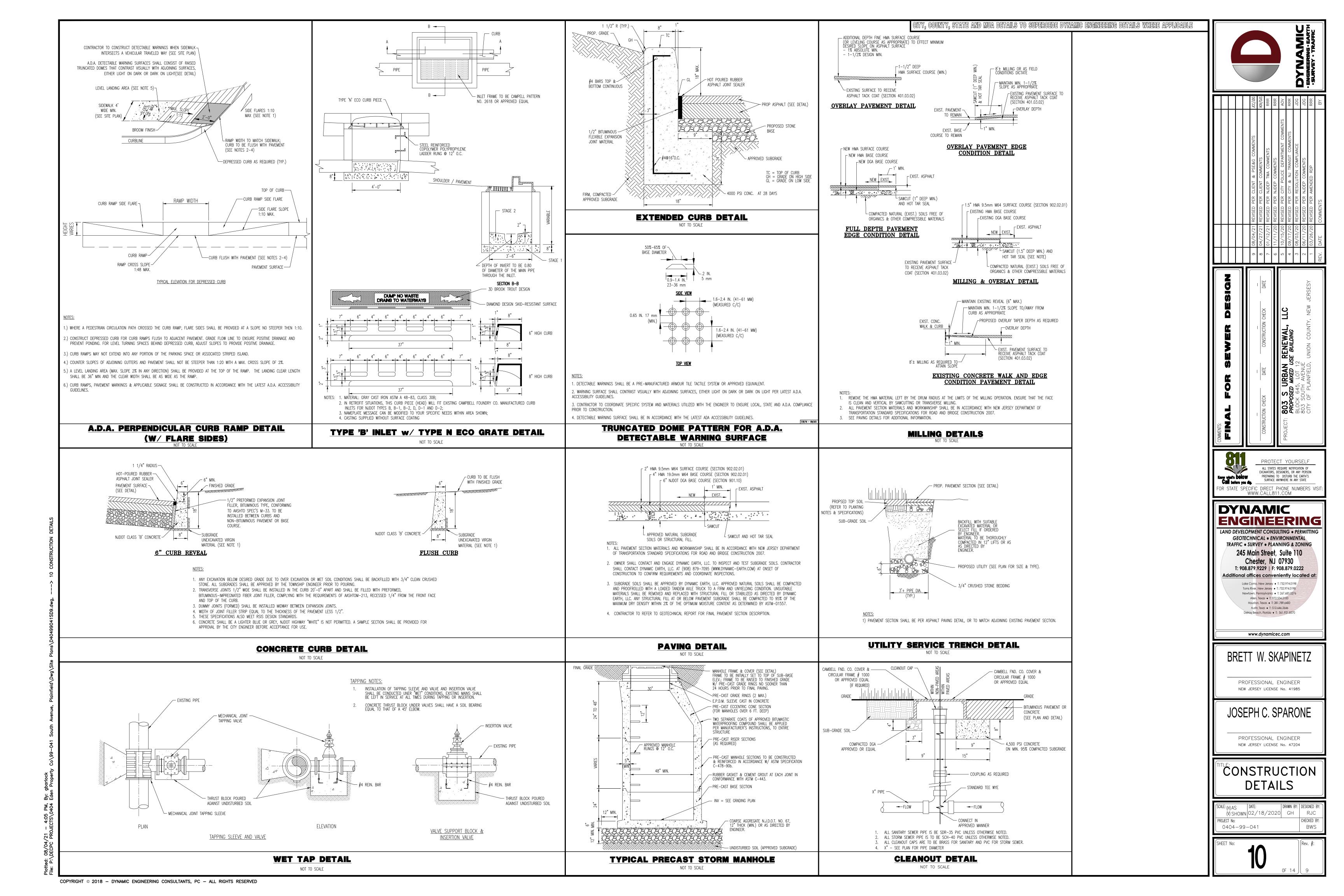
PROJECT No: 0404-99-041

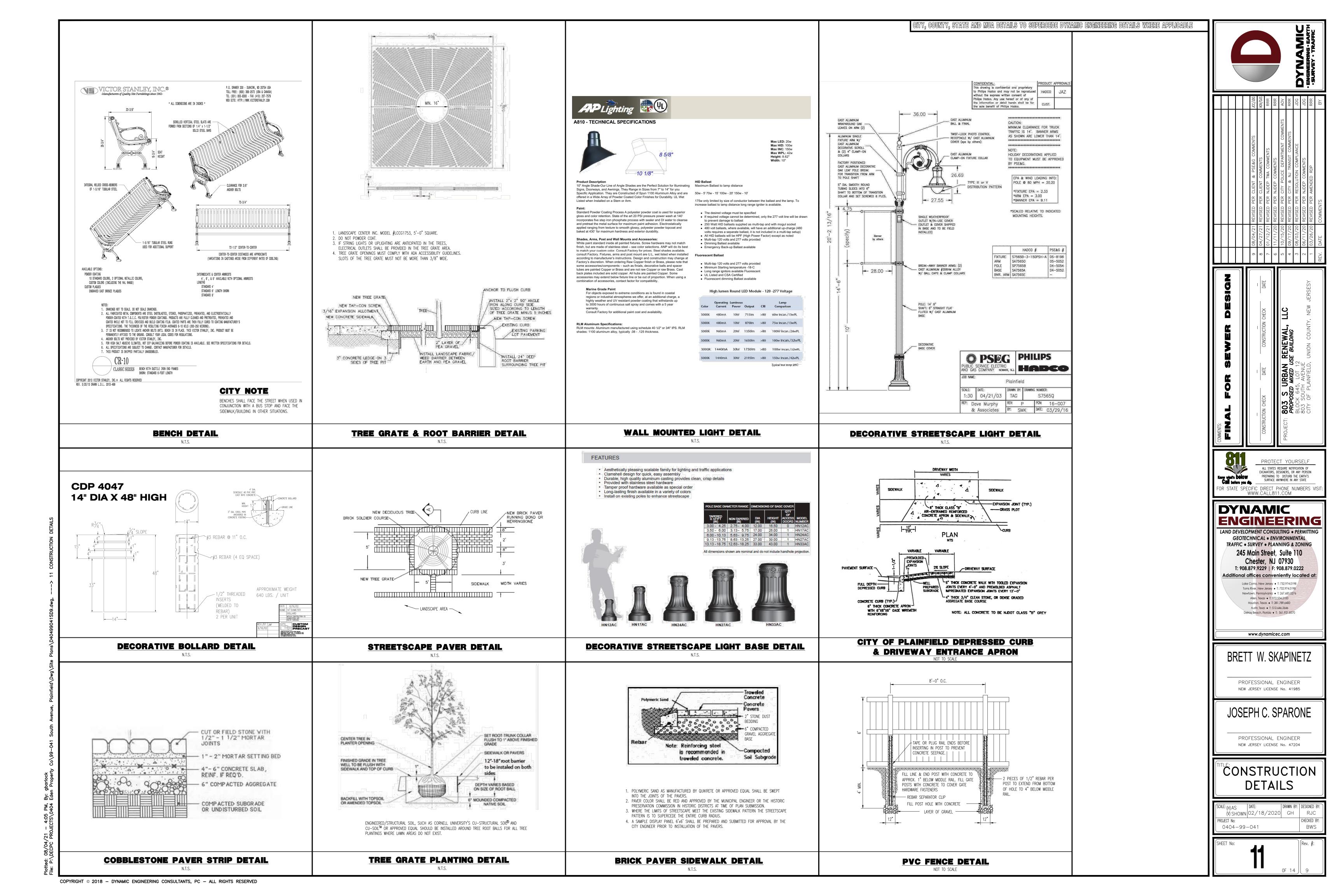
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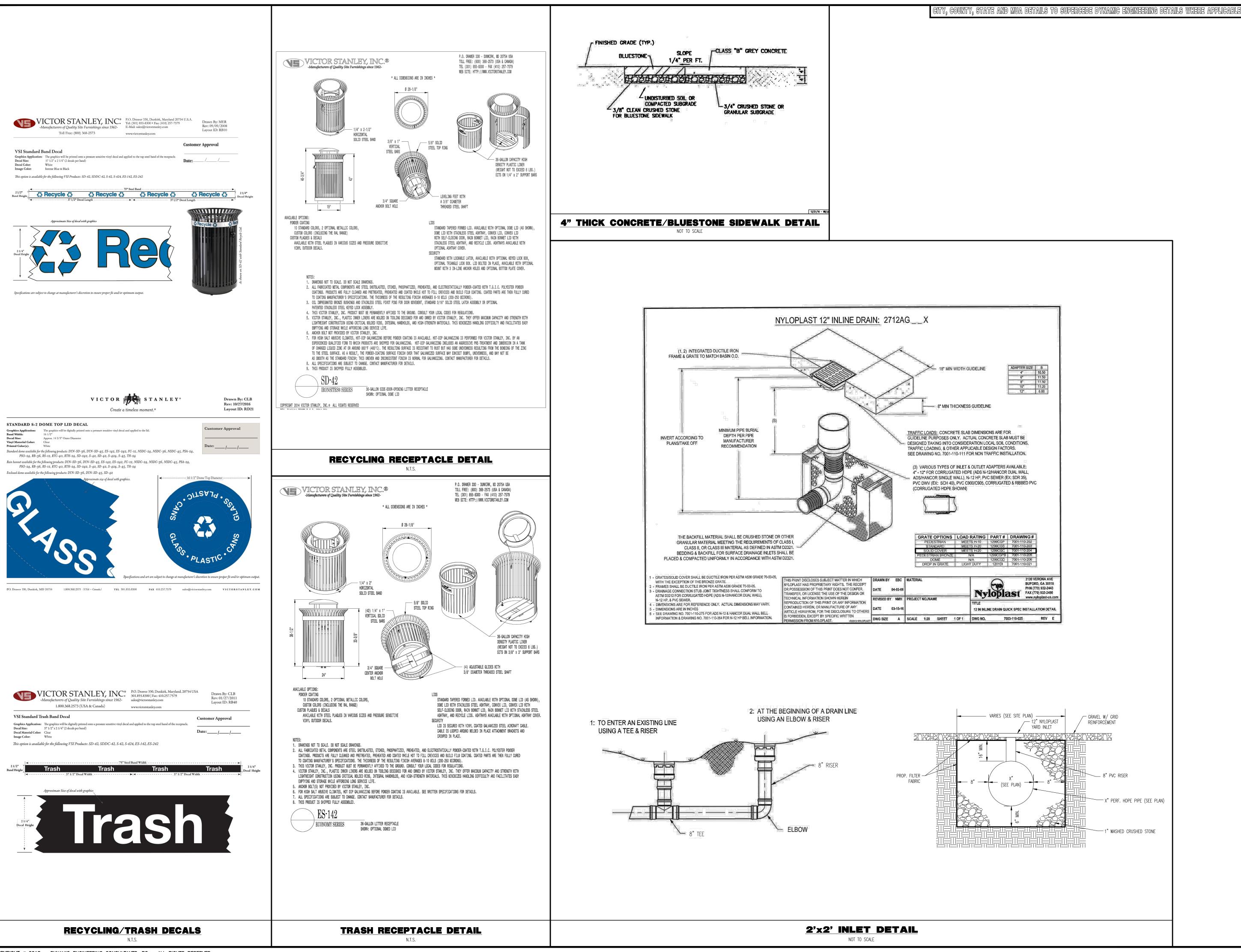
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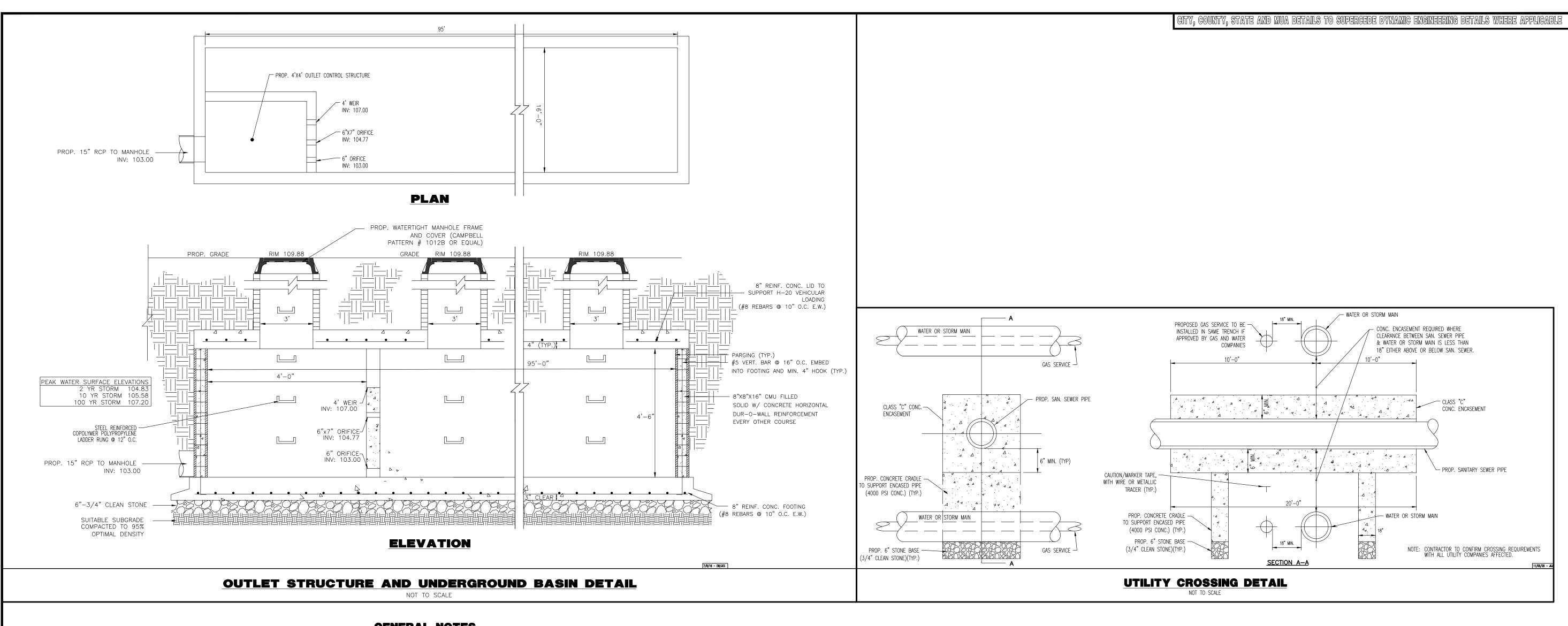
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SCALE: (H) AS (V) SHOWN 02/18/2020 GH RJC PROJECT No: 0404-99-041



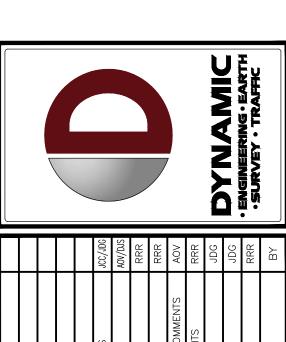
2. SUB-GRADE TO BE FREE OF ORGANIC AND BE SUITABLE, COMPACTED MATERIAL.

AND UNIFORM BUILDING CODE.

SOILS NOTES 1. FOOTING DESIGN BASED ON ASSUMED MAXIMUM ALLOWABLE SOILS BEARING CAPACITY OF 2,000 PSF. CONTRACTOR RESPONSIBLE TO VERIFY ADEQUACY OF ASSUMED BEARING CAPACITY PRIOR TO CONSTRUCTION. ADEQUACY OF SUB-STRATUM BEARING CAPACITY TO BE VERIFIED BY GEOTECHNICAL ENGINEER THROUGH TEST PIT OR BORING PRIOR TO CONSTRUCTION. ENGINEER TO BE NOTIFIED OF INCONSISTENCIES.

1. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS WITH A MINIMUM CEMENT CONTENT OF 600 POUNDS PER CUBIC YARD FOR ALL FOOTINGS. 2. ALL CONCRETE SHALL HAVE A SLUMP OF NO GREATER THAN 4" TO WITHIN A TOLERANCE OF 1". 3. ALL EXPOSED CONCRETE SHALL BE AIR-ENTRAINED, (6% WITHIN 1% TOLERANCE), CONFORMING TO 4. REINFORCING STEEL BARS SHALL BE A MINIMUM ASTM A615, GRADE 60, AND SHALL BE FIELD WIRED 5. ALL FRAMEWORK, AND PLACEMENT OF CONCRETE SHALL COMPLY WITH GOOD CONSTRUCTION PRACTICES AND BE IN ACCORDANCE WITH ALL LOCAL GOVERNING CODES AND REGULATIONS, AS WELL AS THE ACI

1. SYSTEM TO BE WATERTIGHT. CONTRACTOR TO WRAP A GEOSYNTHETIC LINER, OR PROVIDE AN EQUIVALENT WATERTIGHT DESIGN. 2. BASIN ACCESS POINTS, ROOF LEADERS AND OTHER CONNECTIONS TO BE WATERTIGHT.



Н			r/oor	40V/D	RRF	RRF	AOV	RRF	)DC	)DC	RRF	ВУ
			08/04/21 REVISED PER CLIENT & PSE&G COMMENTS	04/27/21 REVISED PER CLIENT COMMENTS	01/12/21 REVISED PER NJDEP TWA COMMENTS	11/11/20 REVISED PER NJDEP COMMENTS	10/15/20 REVISED PER CITY POLICE DEPARTMENT COMMENTS	09/17/20 REVISED PER CITY & NJ TRANSIT COMMENTS	08/03/20 REVISED PER RESOLUTION COMPLIANCE	06/11/20 REVISED PER NJDEP COMMENTS	03/26/20 REVISED PER AMENDED RDP	COMMENTS
Ш			0/80	04/2	01/1	11/1	10/1	09/1	0/80	06/1	03/2	DATE
			6	8	7	9	2	4	2	2	1	REV.
	NOISE SEWED DESIGN			CONSTRUCTION CHECK DATE CONSTRUCTION CHECK DATE	DAIL CONSTRUCTION CITCLE		ROZ S LIBBAN BENEWAL LLC	PROPOSED MIXED USE BUILDING	BLOCK 645, LOT 12	803 SOUTH AVENUE	CITY OF PLAINFIELD, UNION COUNITY, NEW JERSESY	



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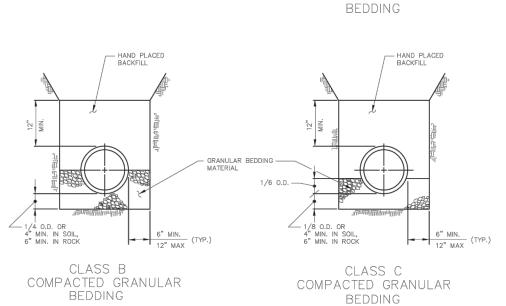
PROFESSIONAL ENGINEER

JOSEPH C. SPARONE

PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 47204

CONSTRUCTION **DETAILS** 

(V) SHOWN 02/18/2020 GH RJC CHECKED BY: PROJECT No: 0404-99-041



**BEDDING DETAIL** 

NOTES: THERE SHALL BE A MINIMUM OF 30" OF BACKFILL OVER THE PIPE BEFORE HEAVY COMPACTION NOTES:

- 1. LADDERS SHALL BE INSTALLED ON ALL MANHOLES WHERE THE DISTANCE FROM THE INVERT TO THE RIM EXCEEDS 15 FEET.
- 2. LADDER SHALL BE FIBERGLASS.
- 3. CLIPS, ANGLES, BOLTS, WASHERS AND ALL OTHER HARDWARE SHALL BE 304 STAINLESS STEEL.
- 4. ALL MANHOLES EXCEEDING 25 FEET FROM INVERT TO RIM SHALL HAVE AT LEAST ONE INTERMEDIATE

SECTIONAL PLAN

ADAPTER IF AND

NJDOT CLASS 'C' CONCRETE

ENCASEMENT OR DROP -

MANHOLE COLLARS

UNDISTURBED EARTH --

MANHOLE BASE WITH ...

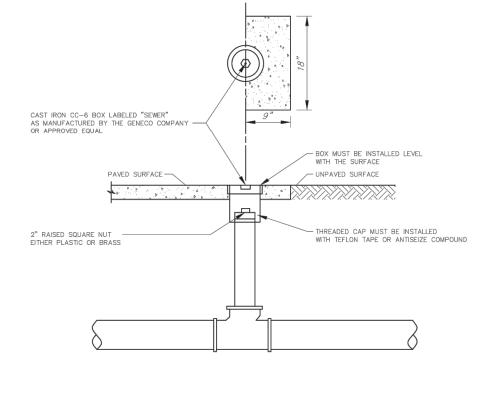
PRECAST DROP

CONSTRUCTION NOTES:

INVERT IS TWO (2) FEET OR GREATER.

CRUSHED STONE BEDDING -

WHERE NECESSARY



NOTES:

-FOR CONSTRUCTION DETAILS

SEE PRECAST STANDARD MANHOLE DETAIL

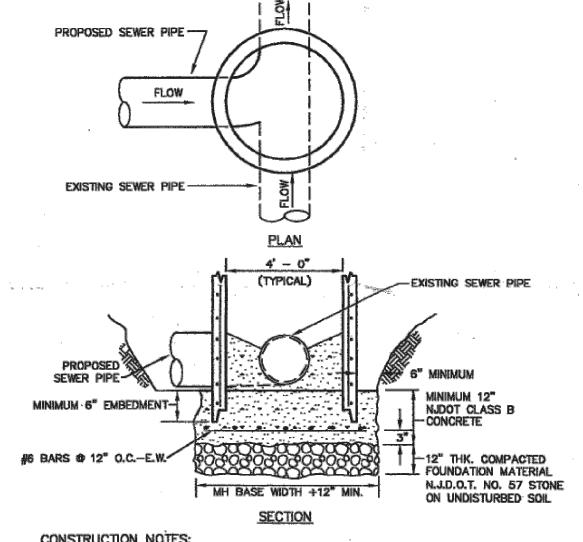
PROVIDE CINCH

ANCHORS AT 12" O.C. TO THE CONCRETE TO MANHOLE WALL

CONSTRUCT

-LONG RADIUS

- 1. AT LEAST ONE CLEANOUT MUST BE PROVIDED ON EACH LATERAL.
- 2. A CLEANOUT WILL BE PROVIDED FOR EACH LATERAL BETWEEN THE CURB AND THE SIDEWALK.
- 3. IN GENERAL, OWNERSHIP AND MAINTENANCE OF LATERALS AND CLEANOUTS WILL BE THE RESPONSIBILITY OF THE PROPERTY OWNER.
- 4. THE LOCATION OF ALL CLEANOUTS MUST BE APPROVED BY THE TOWNSHIP PLUMBING DEPARTMENT.
- 5. ALL CLEANOUTS LOCATED WITHIN PAVEMENT OR CONCRETE MUST BE PROTECTED WITH A CC-6 BOX.



CONSTRUCTION NOTES:

- 1. SEE PRECAST STANDARD MANHOLE DETAIL FOR TYPICAL INSTALLATION.
- 2. PRECAST MANHOLE SECTION TO BE IN ACCORDANCE WITH ASTM DESIGNATION C-478

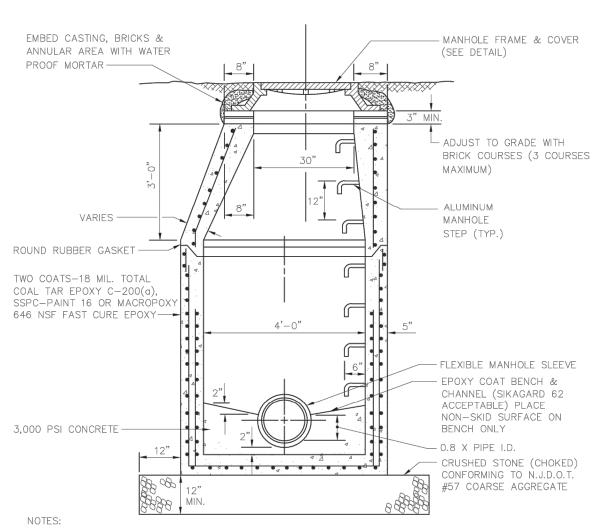
 DUCTILE IRON DRESSER STYLE SOLID SLEEVE OR TRANSITION COUPLING WITH STAINLESS STEEL BOLTS TO BE LOCATED NO LESS THAN TWO FEET NOR GREATER THAN SIX FEET ON EACH SIDE OF THE NEW MANHOLE. EXISTING SANITARY SEWER -

NOTES:

- 1. BENCH TO HAVE 2.0% SLOPE (TYP.) WITH NON SKID SURFACE. ALL CONNECTIONS TO BE MADE WITH CONICAL TYPE FLEXIBLE SEAL SUCH AS KOR-N-SEAL OR EQUAL.
- 3. ALL CHANNELS MUST BE HALF PIPE OR EPOXY COATED.
- 4. THE MANHOLE MUST MEET ALL REQUIREMENTS FOR MANHOLE CONSTRUCTION SHOWN ON THE OTHER DETAILS OF THE AUTHORITY INCLUDING BUT NOT LIMITED TO THE REQUIREMENT FOR 12" OF CRUSHED STONE TO BE PLACED UNDER THE NEW MANHOLE.

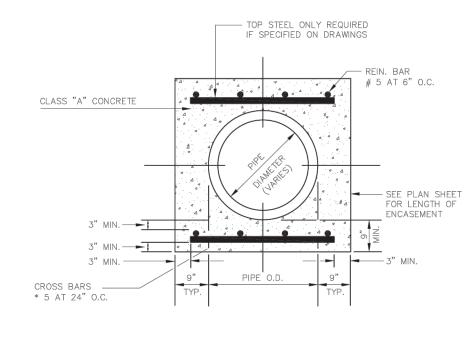
DOGHOUSE MANHOLE

MANHOLE INSTALLED ON EXISTING SEWER



- 1. INTERIOR SURFACES TO BE COATED WITH TWO COATS, 18 MIL TOTAL, COAL TAR EPOXY MEETING SPECIFICATION C-200(A) OR SSPC-PAINT 16 IF RECEIVING DIRECT DISCHARGE FROM PUMP STATION OR DIFFERENCE IN INVERT ELEVATIONS EXCEEDS 12".
- 2. RISER, CONES AND SLABS SHALL BE CONSTRUCTED IN ACCORDANCE WITH A.S.T.M. C-478.
- 3. NON PENETRATING LIFTING HOLES SHALL BE PROVIDED IN ALL UNITS.
- 4. ABSORPTION NOT TO EXCEED 8% IN ACCORDANCE WITH A.S.T.M. C-76.
- 5. ALL JOINTS TO BE CONSTRUCTED IN ACCORDANCE WITH A.S.T.M. C-361.
- 6. NO PRE-CAST BENCHES OR CHANNELS
- 7. CAN ONLY BE USED AT DEPTHS GREATER THAN 6.5' AS MEASURED FROM RIM TO INVERT.

#### CONE TOP MANHOLE



STANDARD CLEANOUT FIBERGLASS MANHOLE LADDER DETAIL

MANHOLE FRAME AND COVER ABOVE

---- INSTALL REMOVE-

ABLE PLUG OR CAP

1. DROP PIPE TO BE USED IN ALL CASES WHERE THE DIFFERENCE BETWEEN INLET AND OUTLET

2. SIZE OF DROP PIPE SHALL BE THE SAME AS MAIN LINE SEWER UNLESS OTHERWISE SPECIFIED.

3. CROWN OF SIDE CONNECTION SEWER SHALL BE AT THE SAME ELEVATION AS THE MAIN SEWER LINE

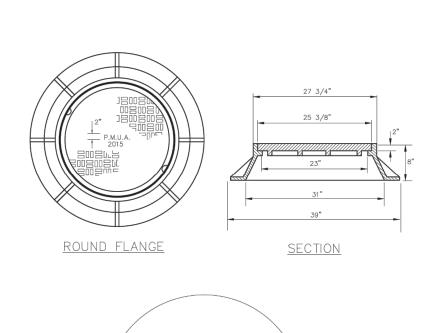
**EXTERIOR DROP CONNECTION** 

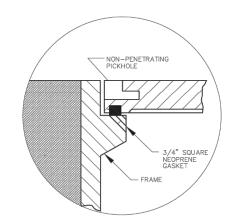
12" THK. COMPACTED FOUNDATION N.J.D.O.T NO 57

DETAIL 'A'

DETAIL 'B'

— FRP ANGLE STANDOFF (6 FT. MAX. SPACING)

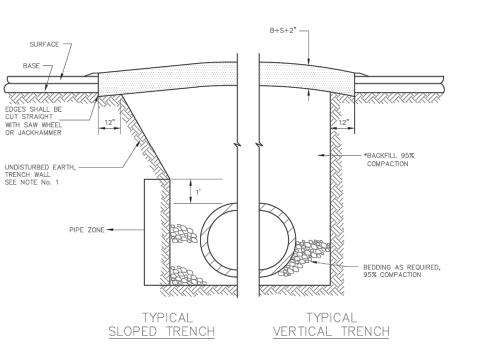




"FLOW-SEAL" MANHOLE COVER

- 1. FRAME AND COVER TO BE CAMPBELL FOUNDRY NO. 1202 B OR EQUAL
- 2. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL FRAMES AND COVERS TO BE "FLOW-SEAL" AS MANUFACTURED BY CAMPBELL FOUNDRY OR EQUAL. 3. COVERS TO BE PROVIDED WITH NON-PENETRATING PICK HOLES.
- 4. COVERS FOR MANHOLES TO BE OWNED BY AUTHORITY MUST HAVE "P.M.U.A."
- AND YEAR CAST INTO THE COVERS IN 2 INCH LETTERS. 5. PMUA TYPE DISCHARGE CONTROL MANHOLES AND OTHER SANITARY SEWER MANHOLES THAT WILL NOT BE OWNED BY THE AUTHORITY, MUST HAVE THE WORDS "SANITARY SEWER" AND YEAR CAST INTO THE COVER IN 2" LETTERS.

FRAME AND COVER DETAIL



NOTES:

SURFACE PLUS (2) INCHES.

- 1. TRENCH TO BE SLOPED OR BRACED AND SHEETED AS NECESSARY FOR THE SAFETY OF THE WORKMEN AND THE PROTECTION OF OTHER UTILITIES.
- 2. TACK COAT ALL PAVEMENT SURFACES PRIOR TO INSTALLATION OF NEW PAVEMENT.
- 3. THE PATCH SHALL BE FULL DEPTH ASPHALT AND EXTEND 12" BEYOND THE EDGE OF TRENCH. DEPTH OF ASPHALT SHALL BE THE DEPTH OF EXISTING BASE PLUS THE DEPTH OF EXISTING
- 4. PIPE ZONE OF TRENCH TO BE BACKFILLED IN SIX (6) INCH LIFTS. THESE SIX (6) INCH LIFTS ARE
- TO BE HAND TAMPED.
- 5. TRENCH TO BE BACKFILLED IN TWELVE (12) INCH LIFTS ABOVE PIPE ZONE.
- 6. BACKFILL TO BE COMPACTED TO 95% IN ACCORDANCE WITH AASHTO T180 AND AASHTO T99. COMPACTION TESTS TO BE PERFORMED EVERY 24" OF VERTICAL TRENCH HEIGHT. HORIZONTAL DISTANCES BETWEEN TESTS NOT TO EXCEED 200'. A MINIMUM OF TWO TESTS TO BE PERFORMED FOR EACH 24' OF VERTICAL TRENCH HEIGHT.

AASHTO T180 AASHTO T99

COMPACTION

SOIL (ASTM D2487) ALL "G" & "S" SOILS ML, CL, MH, CH

TYPICAL TRENCH DETAILS



**DYNAMIC** 

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JOSEPH C. SPARONE

PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 47204

PLAINFIELD MUA STANDARD CONSTRUCTION DETAILS

SCALE: (H) AS (v) SHOWN 02/18/2020 GH RJC CHECKED BY: PROJECT No:

0404-99-041

STANDARD CONCRETE ENCASEMENT DETAIL