

GENERAL NOTES

1. THE CONTRACTOR SHOULD FAMILIARIZE THEMSELVES WITH THE EXISTING SITE CONDITIONS AND PROPOSED SITE WORK (DIMENSION LAYOUT, ETC.) PRIOR TO INITIATING THE IMPROVEMENTS IDENTIFIED WITHIN THESE DOCUMENTS. SHOULD ANY EXISTING SITE CONDITION DIFFER FROM THAT IDENTIFIED HEREIN, THE CONTRACTOR SHALL NOTIFY ENGINEERING IMMEDIATELY PRIOR TO THE START OF CONSTRUCTION.
2. ALL CONTRACTORS WILL TO THE FULLEST EXTENT PERMITTED BY LAW, IDENTIFY AND HOLD HARMLESS ENGINEERING, LLC, AND ITS SUB-CONSULTANTS FROM AND AGAINST ANY DAMAGES/LIABILITIES INCLUDING ATTORNEY'S FEES ARISING OUT OF CLAIMS BY EMPLOYEES OF THE CONTRACTOR IN ADDITION TO CLAIMS TO THE PROJECT AS A RESULT OF NOT CARRYING THE PROPER INSURANCE FOR WORKERS' COMPENSATION, LIABILITY INSURANCE, AND LIMITS OF COMMERCIAL GENERAL LIABILITY INSURANCE.
3. THE CONTRACTOR SHALL NOT DEVIATE FROM THE PROPOSED IMPROVEMENTS IDENTIFIED WITHIN THIS PLAN SET UNLESS APPROVAL IS PROVIDED IN WRITING BY ENGINEERING.
4. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE THE MEANS AND METHODS OF CONSTRUCTION.
5. THE CONTRACTOR SHALL NOT PERFORM ANY WORK OR CAUSE DISTURBANCE ON A PRIVATE PROPERTY NOT CONTROLLED BY THE PERSON OR ENTITY WHO HAS AUTHORIZED THE WORK WITHOUT PRIOR WRITTEN CONSENT FROM THE OWNER OF THE PRIVATE PROPERTY.
6. THE CONTRACTOR IS RESPONSIBLE TO RESOLVE ANY DAMAGED OR UNDERMINED STRUCTURE OR SITE FEATURE THAT IS IDENTIFIED TO REMAIN ON THE PLAN SET. ALL REPAIRS SHALL USE NEW MATERIALS TO RESTORE THE FEATURE TO ITS EXISTING CONDITION AT THE CONTRACTOR'S EXPENSE.
7. CONTRACTOR IS RESPONSIBLE TO PROVIDE THE APPROPRIATE SHOP DRAWINGS, PRODUCT DATA, AND OTHER REQUIRED SUBMITTALS FOR REVIEW. ENGINEERING WILL REVIEW IN ACCORDANCE WITH THE DESIGN INTENTS AS REFLECTED WITHIN THE PLAN SET.
8. THE CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL IN ACCORDANCE WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION AND THE TRAFFIC CONTROL PLANS APPROVED BY NJDOT.
9. THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL AND COMPLIANCE WITH LOCAL, STATE, AND FEDERAL AIR QUALITY STANDARDS.
10. THE CONTRACTOR IS REQUIRED TO PERFORM ALL WORK IN THE PUBLIC RIGHT-OF-WAY IN ACCORDANCE WITH THE APPROPRIATE GOVERNING AUTHORITY AND SHALL BE RESPONSIBLE FOR THE PROCUREMENT OF STREET OPENING PERMITS.
11. SHOULD AN EMPLOYEE OF ENGINEERING AND DESIGN LLC, BE PRESENT ON-SITE AT ANY TIME DURING CONSTRUCTION, IT DOES NOT RELIEVE THE CONTRACTOR OF ANY OF THE RESPONSIBILITIES AND REQUIREMENTS LISTED IN THE NOTES WITHIN THIS PLAN SET.
12. 2007 STANDARD NEW JERSEY DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION WITH AMENDMENTS THERETO TO GOVERN.
13. 2007 STANDARD NEW JERSEY DEPARTMENT OF TRANSPORTATION STANDARD ROADWAY CONSTRUCTION/TRAFFIC CONTROL/BRIDGE CONSTRUCTION DETAILS ARE APPLICABLE TO THIS PROJECT, EXCEPT FOR THOSE DETAILS CONTAINED HEREIN.
14. MODULAR BLOCK WALL, DRIVE-THRU CANOPY FOOTINGS, AND SIGN FOUNDATION PLANS TO BE DESIGNED BY OTHERS. CONTRACTOR AND WALL ENGINEER RESPONSIBLE TO ENSURE ALL STRUCTURAL COMPONENTS OF RETAINING WALL (GEOGRID, FOUNDATION, ETC.) SHALL BE LOCATED ON SUBJECT PROPERTY. STRUCTURAL AND STABILITY CALCULATIONS AND CONSTRUCTION PLANS FOR RETAINING WALLS PREPARED BY A PROFESSIONAL ENGINEER LICENSED IN NEW JERSEY SHALL BE REQUIRED. A GEO-TECHNICAL ENGINEER LICENSED IN THE STATE OF NJ SHALL BE RETAINED BY CONTRACTOR OR OWNER AND SHALL BE ON-SITE DURING CONSTRUCTION.
15. SIDEWALK DESIGN AND CONSTRUCTION CRITERIA SHALL BE IN PLACE AND APPROVED BY THE TOWNSHIP PRIOR TO ISSUANCE OF THE BUILDING PERMIT.
- DEMOLITION NOTES**
1. THE CONTRACTOR IS RESPONSIBLE TO PROTECT AND MAINTAIN IN OPERATION ALL UTILITIES NOT DESIGNATED TO BE REMOVED.
2. THE WORK REFLECTED ON THE DEMOLITION PLAN IS TO PROVIDE GENERAL INFORMATION TOWARDS THE EXISTING ITEMS TO BE DEMOLISHED AND/OR REMOVED. THE CONTRACTOR IS RESPONSIBLE TO REVIEW THE OTHER SITE PLAN AND GEOTECHNICAL DOCUMENTS AND ASSOCIATED REPORTS INCLUDING ALL DEMOLITION ACTIVITIES INCIDENTAL TASKS NECESSARY TO COMPLETE THE SITE IMPROVEMENTS.
3. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE THE MEANS AND METHODS OF DEMOLITION ACTIVITIES.
4. THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL AND COMPLIANCE WITH LOCAL, STATE, AND FEDERAL AIR QUALITY STANDARDS.
5. EXPLOSIVES SHALL NOT BE UTILIZED FOR DEMOLITION.
6. ALL DEMOLITION ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL CODES. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL UTILITIES ARE LOCATED AND DISCONNECTED IN ACCORDANCE WITH THE UTILITY AUTHORITY'S REQUIREMENTS PRIOR TO STARTING THE DEMOLITION OF ANY STRUCTURE. ALL EXCAVATIONS ASSOCIATED WITH DEMOLISHED STRUCTURES OR REMOVED TANKS SHALL BE BACKFILLED WITH SUITABLE MATERIAL AND COMPACTED TO SUPPORT SITE AND BUILDING IMPROVEMENTS. A GEOTECHNICAL ENGINEER SHALL BE PRESENT DURING BACKFILLING ACTIVITIES TO OBSERVE AND CERTIFY THAT BACKFILL MATERIAL WAS COMPACTED TO A SUITABLE CONDITION.
7. DEMOLISHED DEBRIS SHALL NOT BE BURIED ON-SITE. ALL WASTE/DEBRIS GENERATED FROM DEMOLITION ACTIVITIES SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS. CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL RECORDS OF THE DISPOSAL TO DEMONSTRATE COMPLIANCE WITH THE ABOVE REGULATIONS.
8. CONTRACTOR IS RESPONSIBLE TO MAINTAIN A RECORD SET OF PLANS REFLECTING THE LOCATION OF EXISTING UTILITIES THAT HAVE BEEN CAPPED, ABANDONED, OR RELOCATED BASED ON THE DEMOLITION REQUIRED IN THIS PLAN SET. THE DOCUMENT SHALL BE PROVIDED TO THE OWNER FOLLOWING THE SITE PLAN IMPROVEMENTS.
9. CONTRACTOR IS RESPONSIBLE TO PERFORM AN ASBESTOS SURVEY PRIOR TO DEMOLITION AND PERFORM ABATEMENT IN ACCORDANCE WITH STATE REQUIREMENT.
10. CONTRACTOR TO REMOVE ANY EXISTING SEPTIC SYSTEM, IF APPLICABLE, IN ACCORDANCE WITH STATE REQUIREMENTS.
11. ALL EXPOSED SOILS FOR DEMOLITION SHALL BE STABILIZED TEMPORARILY, UNTIL NEXT PHASE OF CONSTRUCTION IS TO BEGIN.

GRADING AND EARTHWORK PREPARATION NOTES

1. ALL SOIL AND MATERIAL REMOVED FROM THE SITE SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS. GROUNDWATER DE-WATERING PRACTICES SHALL BE PERFORMED UNDER THE SUPERVISION OF A QUALIFIED PROFESSIONAL. THE CONTRACTOR IS REQUIRED TO OBTAIN ALL NECESSARY PERMITS FOR THE DISCHARGE OF DE-WASTED GROUNDWATER. ALL SOIL IMPORTED TO THE SITE SHALL BE CERTIFIED CLEAN FILL. CONTRACTOR SHALL MAINTAIN RECORDS OF ALL THE MATERIAL BROUGHT TO THE SITE.
2. THE CONTRACTOR IS REQUIRED TO PROVIDE TEMPORARY AND/OR PERMANENT SHORING WHERE REQUIRED DURING EXCAVATION ACTIVITIES, INCLUDING BUT NOT LIMITED TO UTILITY TRENCHES AND STORMWATER BASINS, TO ENSURE THE STRUCTURAL INTEGRITY OF SURROUNDING STRUCTURES AND STABILITY OF SOILS.
3. ALL CURBING WITHIN SITE SHALL BE BELGIUM BLOCK CURB WITH A 6" FACE REVEAL. CONTRACTOR TO SUPPLY ALL STAKEOUT CURB CUT SHEETS TO TOWNSHIP ENGINEERING DEPT. AND ENGINEERING FOR REVIEW AND APPROVAL PRIOR TO CURB ERECTION.
4. MINIMUM SLOPE REQUIREMENTS TO PREVENT PONDING SHALL BE AS FOLLOWS:
- CURB CUTTER: 0.50%
- CONCRETE SURFACES: 1.00%
- ASPHALT SURFACES: 1.00%
5. ELEVATIONS ON RETAINING WALLS ARE FOR THE EXPOSED PORTION OF THE WALL AND DOES NOT INCLUDE THE FOOTING ELEVATION. FOOTING ELEVATIONS SHALL BE DETERMINED BY THE WALL DESIGNER, LICENSED IN THE STATE UPON WHICH THE WORK OCCURS.
6. POSITIVE DRAINAGE OF 1% MINIMUM SLOPES SHALL BE PROVIDED AWAY FROM ALL BUILDING.
7. ALL EARTHWORK PREPARATION AND GRADING ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH RECOMMENDATIONS FROM THE GEOTECHNICAL ENGINEER OF RECORD OUTLINED IN THE "REPORT OF GEOTECHNICAL INVESTIGATION PROPOSED CHASE BANK BRANCH OFFICE DEVELOPMENT".

ERSION AND SEDIMENT CONTROL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR SOIL EROSION AND SEDIMENT CONTROL IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS.
2. THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL AND COMPLIANCE WITH LOCAL, STATE, AND FEDERAL AIR QUALITY STANDARDS.
3. SEE SOIL EROSION AND SEDIMENT CONTROL PLAN FOR MORE DETAIL.
4. REFER TO SOIL EROSION AND SEDIMENT CONTROL PLAN FOR AREAS RESTRICTED TO LIGHTWEIGHT LOW IMPACT CONSTRUCTION EQUIPMENT ONLY FOR FINAL GRADING OF PROPOSED LAWN AREAS. TO QUALIFY AS LIGHT WEIGHT AND LOW IMPACT THE EQUIPMENT MUST EXERT A MAXIMUM PRESSURE OF EIGHT POUNDS PER SQUARE INCH ON THE GROUND SURFACE DURING GRADING OPERATIONS. IF DURING CONSTRUCTION INSPECTION IT IS FOUND THAT EQUIPMENT EXCEEDS THE MAXIMUM EIGHT POUNDS PER SQUARE INCH REQUIREMENT HAS BEEN USED FOR BACKFILLING OR GRADING OF DESIGNATED LAWN AREAS, THE CONTRACTOR SHALL MODIFY THE AFFECTED LAWN AREAS TO A MINIMUM OF 18 INCHES BELOW FINISHED GRADE, PROCEDURES FOR THE RESTORATION OF THE PERMEABILITY OF THE UPPER 18 INCHES OF COMPACTED SOIL SHALL BE SITE SPECIFIC, AND SUBJECT TO THE APPROVAL OF THE TOWNSHIP ENGINEER.

LANDSCAPING NOTES

1. CONTRACTOR SHALL RESTORE ALL OFFSITE DISTURBED GRASS AND LANDSCAPE AREAS TO MATCH EXISTING CONDITIONS.
2. DISTURBED ON-SITE AND OFFSITE LAWN AREAS SHALL BE RESTORED WITH 4" OF TOPSOIL AND SEED.
3. MULCH AREAS SHALL BE RESTORED WITH MINIMUM OF 3" OF MULCH.
4. MAX 3: 1 SLOPE ALLOWED IN LANDSCAPE RESTORATION AREAS.
5. CONTRACTOR TO RE-GRADE DISTURBED LANDSCAPED AREAS TO MEET GRADE AT WALKWAYS AND TOP OF CURB ELEVATIONS EXCEPT WHERE A WALL IS NOTED ON PLANS. NO ABRUPT CHANGES IN GRADE PERMITTED IN DISTURBED AREAS.
6. SEE LANDSCAPE PLAN AND SPECIFICATIONS FOR MORE DETAIL.
7. ALL SHRUBS WITHIN ATM RADIUS SHALL BE TRIMMED AND MAINTAINED TO MAX HEIGHT OF 36".
8. ALL TREES LIMBS WITHIN ATM RADIUS SHALL BE TRIMMED AND MAINTAINED TO A HEIGHT 6' FROM GRADE.

GENERAL NOTES

1. THE ON-SITE STORM SEWER UPGRADES WILL FLOW INTO THE EXISTING COMBINED SEWER OFFSITE SEE C302
2. ELEVATIONS ARE REFERENCED TO SURVEY PROVIDED BY THE FIRST SIGHT SURVEYING LLC
3. LOCATIONS, EXTENT AND SIZES OF UNDERGROUND UTILITIES AND SUBSTRUCTURES HAVE BEEN DETERMINED FROM AVAILABLE RECORD INFORMATION OF THE RESPECTIVE UTILITY COMPANIES AND CITY AGENCIES, SUPPLEMENTED BY DATA OBTAINED IN THE FIELD. THIS INFORMATION IS NOT CERTIFIED AS TO ACCURACY OR COMPLETENESS. CONSULT THE APPROPRIATE UTILITY COMPANY OR AGENCY PRIOR TO DESIGNING IMPROVEMENTS, COMMENCING DESIGN DEMOLITION OR CONSTRUCTION.
4. NEW JERSEY STATE LAW, REQUIRES EXCAVATORS AND CONTRACTORS TO GIVE UTILITY COMPANIES OR AGENCIES AT LEAST TWO (BUT NO MORE THAN TEN) WORKING DAYS NOTICE BEFORE DIGGING, DRILLING OR BLASTING.
5. THIS SITE PLAN IS NOT A TITLE SURVEY. THIS SURVEY IS NOT TO BE USED FOR TITLE PURPOSES.
- SEWER MANHOLE LOCATIONS, RIM AND INVERT ELEVATIONS SHOWN HEREIN ARE FROM FIELD MEASUREMENTS UNLESS SHOWN WITH AN (R) WHICH DENOTES AS PER RECORD INFORMATION. RECORD SEWER INFORMATION SHOWN WAS OBTAINED FROM NBMUA. THE SIZES OF SEWERS ARE SHOWN AS PER RECORD INFORMATION AND APPROXIMATE VISUAL CONFIRMATION.
7. PERC TEST WAS PERFORMED ON SITE AND FAILED, NO PERC WAS RECORDED
8. REPLACE EXISTING PAVEMENT DAMAGED DURING CONSTRUCTION AND PROVIDE TEMPORARY CURBING TO REPLACE EXISTING DAMAGED DURING CONSTRUCTION.
9. ALL NEW PIPES SHALL BE PRESSURE TESTED IN ACCORDANCE WITH UNITED WATER REQUIREMENTS OR OTHER APPLICABLE REQUIREMENTS IN THE PIPING SCHEDULE. HOWEVER, IN NO CASE SHALL THE TEST REQUIREMENTS BE LESS THAN 150 PSI FOR 90 MINUTES WITH ZERO LEAKAGE.
- UNDER NO CONDITIONS SHALL PIPES BE INSTALLED SUCH THAT THEY ARE IN DIRECT PHYSICAL CONTACT. A RUBBER GASKET IS REQUIRED BETWEEN ALL PIPES AS PER MANUFACTURER'S SPECIFICATIONS.
11. PIPING WILL GENERALLY SLOPE UNIFORMLY BETWEEN THE ELEVATION SHOWN ON THE DRAWINGS. NO SAGS OR CRESTS PERMITTED UNLESS OTHERWISE INDICATED.
13. ALL BURIED PIPING WILL HAVE A MINIMUM OF 3.5 FEET OF COVER. FINISH GRADE, UNLESS OTHERWISE INDICATED ON A PIPING PROFILE. WATER PUMPING PIPING WILL HAVE A MINIMUM OF 4 FEET OF COVER BENEATH PROPOSED GRADE.
14. PIPING WHICH IS EXPOSED DURING EXCAVATION AND IS TO REMAIN IN SERVICE, SHALL BE SUPPORTED, BRACED OR OTHERWISE PROTECTED DURING CONSTRUCTION
15. ALL EXCAVATIONS DEEPER THAN FIVE FEET SHALL BE PERFORMED UTILIZING EARTH
16. THE EARTH RETENTION SYSTEM SHALL BE DESIGNED TO SUPPORT HORIZONTAL PRESSURES FROM EARTH, AND ANY EQUIPMENT LOAD ADJACENT TO THE RETENTION SYSTEM.
17. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILIZATION OF THE SEWER DURING CONNECTION.
18. JCMUA SEWERAGE AUTHORITY WILL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO CONNECTION TO THE SEWER.
19. PRIOR TO STARTING THE WORK IN AN AREA AFFECTING MUNICIPAL STORM SEWER LINE, CONTRACTOR SHALL HAVE PREPARED A PLAN FOR CONDUCTING THE WORK WHICH AT MINIMUM INCLUDES THE FOLLOWING INFORMATION RELATED TO THE SUBJECT WORK:
- A. IDENTIFIES ANY DISRUPTION OF OPERATIONS AND THE ESTIMATED SCHEDULE AND DURATION OF THE WORK.
- B. PLANS FOR ISOLATION, DRAINING AND FLUSHING OF EXISTING SYSTEMS.
- C. PLANS OF ARRANGING AND PARTICIPATING IN THE NECESSARY COORDINATION MEETINGS WITH PLANT STAFF TO COORDINATE WORK WITHOUT DISRUPTING PLANT OPERATIONS.
20. ALL NEW PIPING; PIPE, DUCT OR CONDUIT ARE SHOWN WITH A HEAVIER LINE.
21. ALL PROPOSED RIM, INVERT, CONTOUR, ETC. ARE SHOWN WITH A HEAVIER LINE.
22. ALL DISTURBED AREAS NOT SCHEDULED TO RECEIVE ASPHALTIC CONCRETE PAVEMENT, CONCRETE WALKS OR WALKWAYS SHALL BE SEEDDED.

DETENTION

OPERATIONAL & MAINTENANCE PLAN

- i. MAINTENANCE RECORDS MUST BE KEPT ON-SITE FOR A PERIOD OF THREE YEARS BY THE OWNER OF THE STORMWATER MANAGEMENT SYSTEM. THESE RECORDS SHALL BE MADE AVAILABLE TO THE AUTHORITY WITHIN 72 HOURS UPON THE AUTHORITY'S REQUEST TO REVIEW THESE RECORDS.
- ii. THE AUTHORITY RESERVES THE RIGHT TO INSPECT ALL STORMWATER MANAGEMENT SYSTEMS. THE OWNER OF THE STORMWATER MANAGEMENT SYSTEM SHALL PROVIDE ACCESS FOR INSPECTION TO THE AUTHORITY WITHIN 72 HOURS OF THE AUTHORITY'S REQUEST TO INSPECT THE STORMWATER MANAGEMENT SYSTEMS.
- iii. FAILURE TO MAINTAIN ADEQUATE MAINTENANCE RECORDS, PERFORM MAINTENANCE, AND/OR DENY THE AUTHORITY ACCESS TO MAINTENANCE RECORDS OR INSPECTION WITHOUT CAUSE IS SUBJECT TO FINES BY THE AUTHORITY AS DETAILED IN THE SEWER CONNECTION: APPLICATION PROCEDURES AND FEE SCHEDULE DOCUMENT.

DETENTION DESIGN CONDITIONS

- 1.1 THE EXISTING CONDITIONS SHOWN ARE A COMPILATION OF INFORMATION TAKEN FROM A
- 1.2 SURVEY BY Fast & Survey SURVEYING DATED 12 / 10 / 21, WHICH STIPULATE THAT THE SITE WAS ALMOST 100% LOT COVERAGE WITH EXISTING BUILDING.
- 1.3 NO COMBINED OR SANITARY SEWER LINES ARE LOCATED IN THE CENTER OF street
- 1.4 BASED ON EXISTING TO PROPOSED CONDITIONS, THE DETENTION BASIN WAS DESIGNED POST DEVELOPMENT OUTFLOW FOR A 30MINUTE PERIOD OF A TEN YEAR STORM EVENT EQUAL TO 1.5 TWO YEAR STORM EVENT DURING THE SAME TIME PERIOD.
- MODIFIED RATIONAL METHOD WAS USED FOR THE RAINFALL EVENT TIME OF CONCENTRATION.
- 1.6 THE REQUIREMENTS OF THE DETENTION WILL COMPLY WITH THE NJAC 7:14A-23.6 REQUIREMENTS
- 1.7 SEE ATTACHED CALCULATIONS TO SUPPORT SHOWN DESIGN CONDITIONS.
- 1.8 SEE SPECIFICATIONS ATTACHED FOR ALL PLUMBING SANITARY AND STORM WATER LINES RELATED ITEMS.
- 1.9 BASED ON EXISTING TO PROPOSED CONDITIONS, THE DETENTION BASIN WAS DESIGNED POST DEVELOPMENT OUTFLOW FOR A 30MINUTE PERIOD OF A TEN YEAR STORM EVENT EQUAL TO TWO YEAR STORM EVENT DURING THE SAME TIME PERIOD.
- 1.10 MODIFIED RATIONAL METHOD WAS USED FOR THE RAINFALL EVENT TIME OF CONCENTRATION.
- 1.11 THE REQUIREMENTS OF THE DETENTION WILL COMPLY WITH THE NJAC 7:14A-23.6 REQUIREMENTS
- 1.12 SEE ATTACHED CALCULATIONS TO SUPPORT SHOWN DESIGN CONDITIONS.
- SEE SPECIFICATIONS ATTACHED FOR ALL PLUMBING SANITARY AND STORM WATER LINES RELATED ITEMS.
- 1.13

ENGINEERED SURFACE DRAINAGE PRODUCTS

1. GENERAL:
- ADD PVC SURFACE DRAINAGE INLETS SHALL INCLUDE THE DRAIN BASIN TYPE, DRAINS, INLET, MANHOLE COVERS, AND COLLECTORS
2. MATERIALS:
- A. THE DRAIN BASINS REQUIRED FOR THIS CONTRACT SHALL BE MANUFACTURED FROM PVC PIPE STOCK, UTILIZING A THERMO-MOLDING PROCESS TO REFORM THE PIPE STOCK TO THE SPECIFIED CONFIGURATION. THE DRAINAGE PIPE CONNECTION STUBS SHALL BE MANUFACTURED FROM PVC PIPE STOCK AND FORMED TO PROVIDE A WATERTIGHT CONNECTION WITH THE SPECIFIED PIPE SYSTEM. THIS JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR JOINTS FOR DRAIN AND SEWER PLASTIC PIPE USING FLEXIBLE ELASTOMERIC SEALS. THE PIPE BELL SPIGOT SHALL BE JOINED TO THE MAIN BODY OF THE DRAIN BASIN OR CATCH BASIN. THE PIPE STOCK USED TO MANUFACTURE THE MAIN BODY AND PIPE STUBS OF THE SURFACE DRAINAGE INLETS SHALL MEET THE MECHANICAL PROPERTY REQUIREMENTS FOR FABRICATED FITTINGS AS DESCRIBED BY ASTM D3034. STANDARD FOR SEWER PVC PIPE AND FITTINGS; ASTM F1336, STANDARD FOR PVC GASKETED SEWER FITTINGS.
3. INSTALLATION:
- THE SPECIFIED PVC SURFACE DRAINAGE INLET SHALL BE INSTALLED USING CONVENTIONAL FLEXIBLE PIPE BACKFILL MATERIALS AND PROCEDURES. THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS 1 OR 2 MATERIAL AS DEFINED IN ASTM D2321. THE SURFACE DRAINAGE INLETS SHALL BE BEDDED AND BACK-FILLED UNIFORMLY IN ACCORDANCE WITH ASTM D2321. THE DRAIN BASIN BODY WILL BE CUT AT THE TIME OF THE FINAL GRADE SO AS TO MAINTAIN A ONE PIECE, LEAK PROOF STRUCTURE. NO BRICK, STONE OR CONCRETE BLOCK WILL BE USED TO SET THE GRATE TO THE FINAL GRADE HEIGHT. FOR H-25 LOAD RATED INSTALLATIONS, AN 8" TO 10" THICK CONCRETE RING WILL BE POURED UNDER THE GRATE AND FRAME AS RECOMMENDED BY DETAILS PROVIDED FROM THE MANUFACTURER.



OPTIMIZED ENGINEERING ASSOCIATES
400 38TH STREET, SUITE 307
UNION CITY, NJ 07087

201-430-9173
201-866-0913 (FAX)

E-mail: guy@oea-corp.com
Web: www.oea-corp.com

REVISIONS:		DESCRIPTION	APPROD						
NO.	DATE								

PROJECT LOCATION:

292 WHITON ST
JERSEY CITY, NJ
BLOCK: 20301
LOT: 7

PROJECT DESCRIPTION:

CIVIL PLAN & NOTES

FOR 2-FAMILY

SEAL:

Any

OR
GJ TR. GJ
CK DES. CK
GUY LAGOMARSINO, P.E.
PROFESSIONAL ENGINEER
LICENSE NO. (NJ): 246040034

SCALE:
NTS

DATE:
MARCH 2022

C-101
SHEET 1 OF 3