

LEGEND		
	EXISTING	PROPOSED
ACCESSIBLE SPACE		
CATCHBASIN		
CLEANOUT		
CONTOUR		
END SECTION		
ELECTRIC LINE		
FENCE		
FIRE HYDRANT		
GAS LINE		
GAS VALVE		
GUY WIRE		
HEADWALL		
HEADWALL W/WINGS		
LIGHT POLE		
MANHOLE		
OVERHEAD WIRES		
PIPE ELBOW		
PIPE TEE		
PIPE CROSS		
SANITARY SEWER		
STORMCEPTOR		
SIGN		
SIGN (2 POSTS)		
SPOT ELEVATION		
STORM SEWER		
TELEPHONE LINE		
TO BE REMOVED		
MOUNTABLE CURBING		
WATER LINE		
WATER VALVE		
UTILITY POLE		



CALL 3 FULL WORKING DAYS  
BEFORE YOU DIG IN NEW JERSEY  
FOR FREE MARKOUTS

1-800-272-1000

NON-MEMBERS MUST BE CONTACTED DIRECTLY

OSHA 1926.651 Special Excavation Requirements

(a) Prior to opening an excavation, effort shall be made to determine whether underground installations, i.e., sewer, telephone water, fuel, electric, lines, etc., will be encountered; and if so, where such underground installations are located. When the excavation approaches the estimated location of such an installation, the exact location shall be determined and when it is uncovered, proper supports shall be provided for the existing installation. Utility companies shall be contacted and advised of proposed work. Prior to THE START OF ACTUAL EXCAVATIONS.

OUTSIDE NEW JERSEY, DE, PA, & NY  
WE CAN ALSO BE REACHED  
AT 1-908-232-1232



#### GENERAL NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL INDICATED CONDITIONS AND DIMENSIONS IN THE FIELD BEFORE COMMENCING AND FABRICATION, ORDERING ANY MATERIAL OR PERFORMING ANY WORK. HE SHALL NOTIFY THE ENGINEER OF ANY CONDITION OR DIMENSION WHICH WOULD PREVENT THE PERFORMANCE OF THE WORK IN ACCORDANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS.
2. EXISTING UTILITIES BOTH OVERHEAD AND UNDERGROUND EXIST ON AND ADJACENT TO THIS SITE. EACH CONTRACTOR AND SUBCONTRACTOR IS TOTALLY RESPONSIBLE FOR VERIFYING THE LOCATION OF SUCH UTILITIES, BOTH ON AND ADJACENT TO THE SITE AND AT BUILDING ENTRY POINTS PRIOR TO PROCEEDING WITH HIS WORK AND SHALL CALL FOR A UTILITY MARKOUT 3-BUSINESS DAYS PRIOR TO DIGGING ON SITE.
3. ACTUAL LOCATION OF UTILITIES TO BE DETERMINED BY EACH OF THE RESPECTIVE UTILITY COMPANIES AT THE TIME OF THEIR APPROVAL.
4. ALL WORK MUST CONFORM TO THE LATEST EDITION OF THE NEW JERSEY UNIFORM CONSTRUCTION CODE, ALL APPLICABLE REGULATIONS, ALL APPLICABLE LOCAL CODES AND ORDINANCES AND THE DRAWINGS AND SPECIFICATIONS. IN CASE OF CONFLICT, COMPLY WITH THE CODE IMPOSING THE MOST STRINGENT REQUIREMENTS.
5. FOR DIMENSIONAL LAYOUT OF ROADWAYS AND PARKING AREAS, SEE PROPOSED SITE PLAN DRAWING.
6. MATERIALS SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE INDICATED:

STORM PIPES: CONCRETE PIPE SHALL BE REINFORCED CONCRETE PIPE, CLASS III, WALL 'B', ASTM C76 OR C507.  
ROOF DRAINS SHALL BE PVC SDR 35, ASTM D3034.

SANITARY PIPE: PVC SDR 35, ASTM D3034

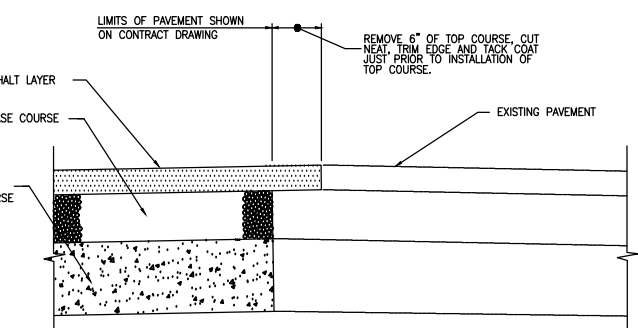
WATER PIPES: DUCTILE IRON PIPE SHALL BE CLASS 52, ANSI/AWWA C151/A21.51 W/ASPHALTIC COATING & CEMENT LINED PER ANSI/AWWA C104/A1.4.  
COPPER PIPE SHALL MEET ASTM B42

VALVES: MECHANICAL JOINT END VALVES

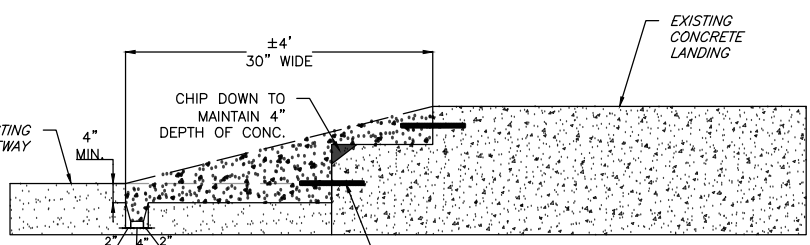
7. SANITARY SEWERS AND WATER MAINS SHALL BE SEPARATED A DISTANCE OF AT LEAST 10 FEET HORIZONTALLY. IF SUCH LATERAL SEPARATION IS NOT POSSIBLE, THE PIPES SHALL BE IN SEPARATE TRENCHES WITH THE SEWER AT LEAST 18\"/>
8. CONTRACTOR SHALL INSTALL THRUST BLOCKS AT ALL LOCATIONS WHERE WATER LINES BEND AND/OR CHANGE DIRECTION. SEE DETAILS.
9. FOR ACTUAL LOCATION OF UTILITY CONNECTIONS INTO BUILDING, SEE BUILDING MECHANICAL PLANS.
10. ALL SANITARY SEWER APPURTENANCES SHOULD BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL SEWER DEPARTMENT AND THE MUNICIPALITY.
11. ALL NEW UTILITIES SHALL BE INSTALLED ACCORDING TO MOST RECENT APPLICABLE BUILDING AND MUNICIPAL CODES.
12. ALL UTILITY BACKFILL MATERIALS ARE SUBJECT TO REVIEW AND APPROVAL OF THE MUNICIPAL ENGINEER.
13. THE APPLICANT SHALL ENSURE THAT HOURS OF WORK ARE IN ACCORDANCE WITH LOCAL ORDINANCE.
14. THE ENTIRE AREA COVERED BY THE WORK SHALL BE MAINTAINED AND LEFT IN SUCH A MANNER AS TO NOT CREATE OR MAINTAIN A NUISANCE OR CONDITION HAZARDOUS TO LIFE AND LIMB OR TO THE HEALTH OR GENERAL WELFARE OF THE INHABITANTS.

#### BACKFILL:

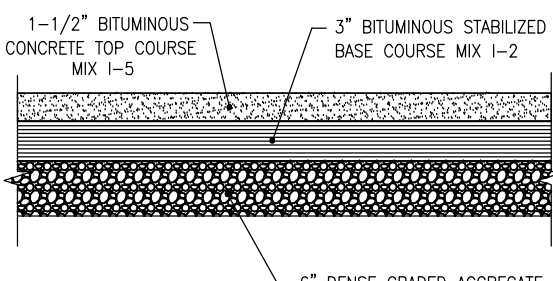
15. ALL FILL SHOULD BE PLACED IN LIFTS IN THE ORDER OF TWELVE (12) INCHES IN LOOSE THICKNESS AND IT SHOULD BE UNIFORMLY COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR DENSITY VALUES DERIVED BASED UPON ASTM D-1557-93 TEST PROCEDURE. IN ADDITION, BACKFILL SOILS PLACED IN CONFINED AREAS, SUCH AS FOUNDATION OR UTILITY EXCAVATIONS, SHOULD BE SPREAD IN LIFTS IN THE ORDER OF SIX TO EIGHT INCHES IN LOOSE THICKNESS AND BE COMPACTED TO THE SAME DEGREE USING MANUALLY OPERATED VIBRATORY COMPACTION EQUIPMENT.
16. ALL CONTRACTORS PROVIDING FILL TO THE SITE WILL BE REQUIRED TO PROVIDE EVIDENCE OF THE SOURCE OF THE FILL TO BE BROUGHT TO THE SITE AND CERTIFY THAT IT IS CLEAN. A COPY OF THE CERTIFICATION SHALL BE PROVIDED TO THE TOWNSHIP ENGINEER.
17. ALL SOIL AND MATERIAL REMOVED FROM THE SITE SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS. ANY 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-WATERED GROUNDWATER. ALL SOIL IMPORTED TO THE SITE SHALL BE CERTIFIED CLEAN FILL. CONTRACTOR SHALL MAINTAIN RECORDS OF ANY FILL MATERIALS BROUGHT TO THE SITE.



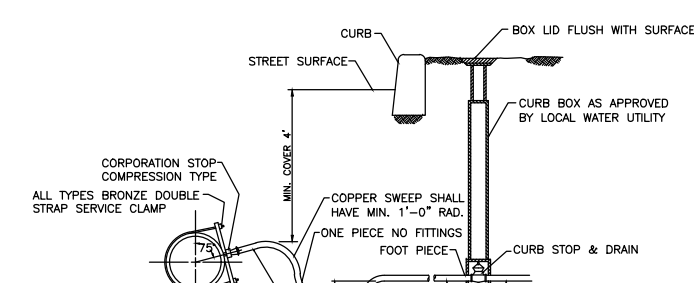
PAVEMENT MEET EXISTING PAVEMENT DETAIL  
N.T.S.



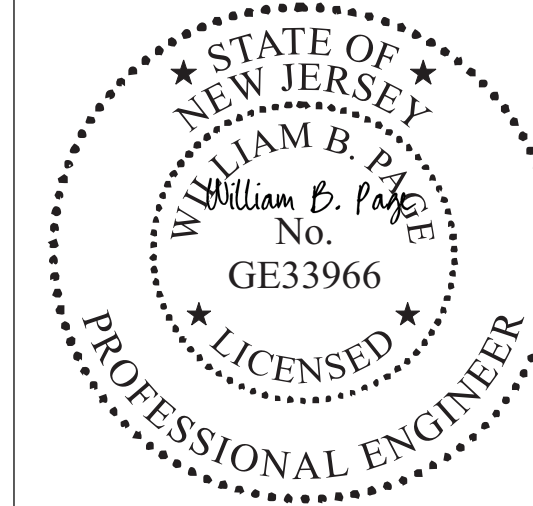
ACCESS RAMP DETAIL (HOBART MANOR)  
N.T.S.



PAVEMENT SECTION DETAIL  
N.T.S.



WATER SERVICE CONNECTION DETAIL  
N.T.S.



BID SET 7/30/21

**Page**  
**consultants,**  
**inc.**

State of New Jersey  
Certificate of Authorization No. 046A7P934800

- PLANNING
- CONSTRUCTION MANAGEMENT
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- ENGINEERING
- BUILDING DESIGN

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N.J. LICENSE AIO 13073

PROJECT: UNIVERSITY MAIN CAMPUS  
CARRIAGE HOUSE  
WILLIAM PATERSON UNIVERSITY  
WAYNE, NJ 07470

TITLE: PROPOSED SITE PLAN

ZONING:	DATE: 4/27/21
REV.:	SCALE: 1\"/>
6/28/21 DCA COMMENTS	DRAWN BY: B.P.
8/30/21 ADDED DETAILS	DRAWING NO:

**SA-1**