

**EXHIBIT A**  
**PRELIMINARY APPLICATION**

**TOWNSHIP OF OCEAN SEWERAGE AUTHORITY**  
**224 ROOSEVELT AVENUE**  
**OAKHURST, NEW JERSEY 07755**  
**732-531-2213**  
**732-5170-0695 (fax)**

PRELIMINARY APPLICATION  
FOR  
COMMERCIAL OR MULTI-FAMILY USE

This Application and any supporting documents must be filed in duplicate with a check in the amount of \$200.00, payable to "Township of Ocean Sewerage Authority" (the minimum filing fee)

Date Received \_\_\_\_\_

Application No. \_\_\_\_\_

1. Project Name \_\_\_\_\_

Address \_\_\_\_\_

Block \_\_\_\_\_ Lots \_\_\_\_\_

2. PROPERTY OWNER

Name \_\_\_\_\_

Address \_\_\_\_\_

Phone \_\_\_\_\_ Email \_\_\_\_\_

3. PROJECT ENGINEER

Name \_\_\_\_\_

Address \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_ Email \_\_\_\_\_

4. Description of Project \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Date: 12/1/10

5. Building Description

a. Total square feet in each building

Building	Square Feet
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
	TOTAL _____

- b. Number of Showers \_\_\_\_\_
- c. Number of Kitchens \_\_\_\_\_
- d. Number of Bathrooms \_\_\_\_\_
- e. Number of Units, if lodging facility \_\_\_\_\_
- f. Number of seats, if restaurant or bar \_\_\_\_\_
- g. Maximum no. of Employees on premises \_\_\_\_\_

6. Projected daily flow \_\_\_\_\_

7. Attach three (3) copies of Preliminary Plan and any approvals from Ocean Township Planning Board.

Applicant's signature \_\_\_\_\_  
(If applicant is not owner, attach authorization from owner for application)

Sworn and subscribed to  
before me this      day  
of  
  
\_\_\_\_\_

**EXHIBIT B**  
**TENTATIVE APPLICATION**

TOWNSHIP OF OCEAN SEWERAGE AUTHORITY  
224 ROOSEVELT AVENUE  
OAKHURST, NEW JERSEY 07755  
732-531-2213  
732-5170-0695 (fax)

TENTATIVE APPLICATION  
FOR  
COMMERCIAL OR MULTI-FAMILY USE

This Application and any supporting documents must be filed in duplicate with a check equal to 1.5% of the estimated cost of construction as determined by the Authority's engineer, payable to "Township of Ocean Sewerage Authority" (the minimum filing fee is \$200.00)

Date Received \_\_\_\_\_

Application No. \_\_\_\_\_

1. Project Name \_\_\_\_\_

Address \_\_\_\_\_

Block \_\_\_\_\_ Lots \_\_\_\_\_

2. PROPERTY OWNER

Name \_\_\_\_\_

Address \_\_\_\_\_

Phone \_\_\_\_\_ Email \_\_\_\_\_

3. PROJECT ENGINEER

Name \_\_\_\_\_

Address \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_ Email \_\_\_\_\_

4. Description of Project \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Date: 12/1/10

5. Building Description

a. Total square feet in each building

Building	Square Feet
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
	TOTAL _____

- b. Number of Showers \_\_\_\_\_
- c. Number of Kitchens \_\_\_\_\_
- d. Number of Bathrooms \_\_\_\_\_
- e. Number of Units, if lodging facility \_\_\_\_\_
- f. Number of seats, if restaurant or bar \_\_\_\_\_
- g. Maximum no. of Employees on premises \_\_\_\_\_

6. Projected daily flow \_\_\_\_\_

7. Attach three (3) copies of Preliminary Plan and any approvals from Ocean Township Planning Board.

Applicant's signature \_\_\_\_\_  
(If applicant is not owner, attach authorization from owner for application)

Sworn and subscribed to  
before me this      day  
of  
  
\_\_\_\_\_

**EXHIBIT C**  
**FINAL APPLICATION**

**TOWNSHIP OF OCEAN SEWERAGE AUTHORITY**  
**224 ROOSEVELT AVENUE**  
**OAKHURST, NEW JERSEY 07755**  
**732-531-2213**  
**732-5170-0695 (fax)**

FINAL APPLICATION  
FOR  
COMMERCIAL OR MULTI-FAMILY USE

This Application and any supporting documents must be filed in duplicate with a check equal to 1.5% of the estimated cost of construction as determined by the Authority's engineer, payable to "Township of Ocean Sewerage Authority" (the minimum filing fee is \$200.00)

Date Received \_\_\_\_\_

Application No. \_\_\_\_\_

1. Project Name \_\_\_\_\_

Address \_\_\_\_\_

Block \_\_\_\_\_ Lots \_\_\_\_\_

2. PROPERTY OWNER

Name \_\_\_\_\_

Address \_\_\_\_\_

Phone \_\_\_\_\_ Email \_\_\_\_\_

3. Does the Final Plan follow the Preliminary Plan? \_\_\_\_\_ Yes \_\_\_\_\_ No

If not, please indicate changes \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

4. Date of filing Final Plan with the Township of Ocean Planning Board \_\_\_\_\_

Date: 12/1/10

5. List maps and other material accompanying this Application and number of copies of each

ITEM	NO. OF COPIES
a. _____	_____
b. _____	_____
c. _____	_____
d. _____	_____
e. _____	_____
f. _____	_____
g. _____	_____
h. _____	_____
i. _____	_____
j. _____	_____

6. Applicant's engineer's estimate of entire cost of construction including rights-of-way, inspection and as-built plans \$ \_\_\_\_\_

7. Number of calendar days after final approval granted by Authority estimated for completion of job \_\_\_\_\_

Applicant's signature \_\_\_\_\_  
(If applicant is not owner, attach authorization from owner for application)

Sworn and subscribed to  
before me this      day  
of

\_\_\_\_\_

Date: 12/1/10

**EXHIBIT D**  
**DISCONNECTION APPLICATION**

DISCONNECTION FEE APPLICATION

Date Received \_\_\_\_\_

1. Property Address \_\_\_\_\_  
\_\_\_\_\_

Block \_\_\_\_\_ Lot \_\_\_\_\_

2. PROPERTY OWNER

Name \_\_\_\_\_

Address \_\_\_\_\_

Phone \_\_\_\_\_ Email \_\_\_\_\_

3. Reason for Disconnection \_\_\_\_\_  
\_\_\_\_\_

4. Plumber \_\_\_\_\_  
Address \_\_\_\_\_  
Phone Number \_\_\_\_\_

5. Length of Disconnection \_\_\_\_\_

Applicant's signature \_\_\_\_\_

(If applicant is not owner, attach authorization from owner for application)

Sworn and subscribed to  
before me this      day  
of

\_\_\_\_\_

**Exhibit H**  
**As-Built Drawing**

**EXHIBIT E  
CHECKLIST**

**Checklist**

**For acceptance of sanitary sewer facilities by the Authority Prior to release of performance guarantee.**

- A. \_\_\_\_\_ Deeds for all lands dedicated to the Authority.
- B. \_\_\_\_\_ One copy of the final subdivision map as filed with the County containing the filed map number and filing date.
- C. \_\_\_\_\_ Easement agreement for each easement dedicated to the Authority in a form acceptable to the Authority.
- D. \_\_\_\_\_ Parcel surveys with metes and bounds descriptions of all lands and easements dedicated to the Authority and individual maps of the easements showing sewer location, sealed by a licensed New Jersey Land Surveyor.
- E. \_\_\_\_\_ Affidavit of Title and title policies for all lands and easements and a recitation thereon that everything conveyed to the Authority has been paid in full.
- F. \_\_\_\_\_ Bill of sale for all equipment and sanitary sewer facilities.
- G. \_\_\_\_\_ Releases from the following:
  - a. Materialmen;
  - b. Suppliers;
  - c. Contractors;
  - d. Laborers;
  - e. Lending Institutions.
- H. \_\_\_\_\_ Affidavits for Title for equipment and a recitation thereon that everything conveyed to the Authority has been paid in full.
- I. \_\_\_\_\_ All warranties from manufacturers of equipment.
- J. \_\_\_\_\_ Certificate listing all users connected to the system, including the following:
  - a. Name and address of property owner;
  - b. Lot and Block number;
  - c. Date Connected;
  - d. Place Connected.
- K. \_\_\_\_\_ Certification by the Applicant concerning compliance to "Chapter 107, Laws 1982," of the State of New Jersey.
- L. \_\_\_\_\_ All of the above to be conveyed to the Authority free and clear of all liens, encumbrances and debts.
- M. \_\_\_\_\_ Corporate Resolution authorizing conveyance as above.
- N. \_\_\_\_\_ One copy of each permit or approval required to construct the sewerage facilities other than the New Jersey Department of Environmental Protection Treatment Works or Sewer Extension Permit to Construct and Operate including, but not limited to:
  - a. Riparian Permits;
  - b. Railroad Jacking Permits;
  - c. Railroad Right-of-Way Occupation Agreements, if applicable.

**EXHIBIT F  
NJDEP ENGINEER'S REPORT  
FOR SEWER SYSTEM**

**STATE OF NEW JERSEY  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
Division of Water Quality**

**ENGINEER'S REPORT for DOMESTIC TREATMENT WORKS APPROVAL APPLICATIONS**

**INSTRUCTIONS**

- Complete all applicable sections and certifications.
- Justifications for any exceptions from the regulations at N.J.A.C. 7:14A - 23 et seq. must be submitted. (Additional sheets may be attached if necessary.)
- All supplemental information required to be submitted along with this engineer's report must be signed, sealed, and dated by a professional engineer, licensed to practice in the State of New Jersey.
- **For Treatment Works other than collection and/or conveyance, please attach a separate Engineer's Report in accordance with N.J.A.C. 7:14A - 23.5.**

**GENERAL INFORMATION**

Applicant: \_\_\_\_\_ Municipality: \_\_\_\_\_

Project Name: \_\_\_\_\_ County: \_\_\_\_\_

Name of Receiving Sewage Treatment Plant: \_\_\_\_\_

NJPDES Permit Number: \_\_\_\_\_

Effluent Receiving Waters: \_\_\_\_\_

Scope of Project: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Contributory Flow: *For assistance in completing this chart, refer to N.J.A.C. 7:14A - 23.3.*

Establishment Type	Number of Measurement Units		Gallons per Day per Unit		Projected Flow (G.P.D.)
		X		=	
		X		=	
		X		=	
		X		=	

Combined Projected Flow: \_\_\_\_\_ M.G.D.  
 Existing Contributory Flow (if any): \_\_\_\_\_ M.G.D.  
**TOTAL FLOW:** \_\_\_\_\_ **M.G.D.**

**1. WASTEWATER CONVEYANCE SYSTEMS**

**(A) GRAVITY SEWER SYSTEMS**

Diameter (inches)	Total Length (feet)	Material Type	"n" Value	Max. MH Spacing (feet)	Min. Slope (%)	Max. Velocity (ft/sec)	Max. Capacity (M.G.D.)

1.	What is the minimum cover (as measured from the top of the pipe to the grade elevation) provided along the entire sewer line?				ft.		
2.	What is the infiltration and/or exfiltration limit for testing purposes (gallons per inch of pipe per mile per day)?						
					YES	NO	N/A
3.	Are sewers within 100 feet of a public water supply well or a below-grade reservoir?						
4.	Are sewers located at least 10 feet horizontally from potable water lines and/or at least 18 inches below potable water lines and in separate trenches, including crossings?						
5.	Are sewers crossing streams located within 10 feet of a stream embankment encased in concrete?						
6.	Is a drop pipe provided for sewers entering manholes above the manhole invert wherever the difference in elevation is two feet or more?						
7.	Are all manholes located more than 100 feet from a public water supply well or a below-grade reservoir?						
8.	Are watertight covers used where street elevations are less than 10 feet above the North American Vertical Datum of 1988 and/or where the top of a manhole may be flooded by street runoff or high water?						
9.	Are the sanitary sewers designed to carry at least twice the estimated average projected flow when flowing half full?						
10.	Have adequate provisions been made for the ventilation of manholes?						
11.	If siphons are part of this project, are they in conformance with N.J.A.C. 7:14A - 23.7?						
12.	Are the immediate downstream sewer lines constructed?						

**(B) PUMPING SYSTEM:** Submit a Pump Station Design Report, which should include, at a minimum, the basis for the following: (a) pump selection; (b) sizing of force main and velocity calculations; (c) total dynamic head; (d) pump station performance curve and (e) wet well detention time.

Average daily flow:	_____ GPD	Surface area of wet well:	_____ ft <sup>2</sup>
Peaking factor:	_____	Wet Well Detention Time :	_____ minutes
Peak design flow:	_____ GPD	TDH of pump:	_____ ft
Number of pumps:	_____		
Design capacity of pump station (with the largest pump out of service):	_____		_____ GPM

**1. WASTEWATER CONVEYANCE SYSTEMS**

**(B) PUMPING SYSTEM (continued)**

**FORCE MAINS**

Diameter (inches)	Length (feet)	Material Type	Velocity (ft/sec)

1.	What is the minimum cover (as measured from the top of the pipe to the grade elevation) provided along the entire force main?	ft		
2.	Specify the method of screening at the pumps.			
3.	Where is the ultimate location of the alarm for high water conditions, power failures, and mechanical breakdowns?			
4.	Specify the type of back-up power source provided.			
		YES	NO	N/A
5.	Is adequate light and ventilation provided at the pump station?			
6.	Are air and/or vacuum release valves provided on the high points of the force main?			
7.	Are adequate freshwater wash-down facilities provided?			
8.	If a domestic water service connection will be utilized for wash-down purposes, is it protected by a backflow prevention device?			
9.	Are shut-off valves on suction and discharge piping and check valves on discharge lines provided?			
10.	Is the base of the pump station wet well sloped toward the pump suction?			
11.	Does the alarm system provide for competent assistance on a 24 hour basis?			
12.	Is the pump station adequately protected from flooding?			
13.	Is the dry well provided with a sump pump?			

I am a professional engineer licensed by the New Jersey Board of Professional Engineers and Land Surveyors to practice in New Jersey. I certify that the proposed treatment works, as designed, meets the requirements of N.J.A.C. 7:14A - 23 et seq., other than the exceptions as noted.

I hereby certify that the information provided in this engineer's report and attachments hereto, is true, accurate, and complete. Exceptions attached [YES , NO]?

Signature of Engineer: \_\_\_\_\_

Professional Engineer's  
Embossed Seal

Name and Date:  
(Print or Type) \_\_\_\_\_

Firm Name: \_\_\_\_\_

**2. DOMESTIC WASTEWATER TREATMENT AND/OR RESIDUAL FACILITIES**

Is the following information submitted with this engineer's report?		YES	NO
1.	A complete description of the selected wastewater treatment system.		
2.	For the modification of an existing system which has not previously been granted a treatment works approval (TWA), the capacities of the existing units and a brief description of the operation of each, and a statement concerning which units are existing and which are proposed at the time of the application. If there exists a previously issued TWA approval for the subject facility, submit the date of issuance and the TWA number.		
3.	Hydraulic profiles of the flow of wastewater through the system.		
4.	A unit by unit mass balance for all discharge parameters.		
5.	The ultimate disposal location of all effluent.		
6.	The basis and computations for average and peak flow requirements.		
7.	The expected composition of the influent and effluent from the treatment system including the average, maximum and minimum values of the pollutant parameters specified in the facility's NJPDES permit/DAC.		
8.	An evaluation of the quantity and quality of any and all residuals generated and projected to be generated, including a hydraulic profile and unit by unit mass balance for the flow of residuals through the system.		
9.	Documentation of adequate storage and handling facilities for residuals.		
10.	Provisions for the ultimate management of residuals.		
11.	Details of flow monitoring and control, alarm systems, auxiliary power, storage facilities for treatment chemicals and wastes, and plans for bypassing units during construction or maintenance.		
12.	The basis and computations for the projected wastewater flow.		
13.	A fully executed Licensed Operator Grading Form.		

I am a professional engineer licensed by the New Jersey Board of Professional Engineers and Land Surveyors to practice in New Jersey. I certify that the proposed treatment works, as designed, are adequate to meet all applicable final NJPDES permit limitations contained in the current NJPDES Discharge Permit No. \_\_\_\_\_ . In addition, I certify that the proposed treatment works, as designed, meets the requirements of N.J.A.C. 7:14A - 23 et seq., other than the exceptions as noted.

I hereby certify that the information provided in this engineer's report and attachments hereto is true, accurate, and complete. Exceptions attached [YES , NO]?

Signature of Engineer\* \_\_\_\_\_

*Professional Engineer's  
Embossed Seal*

Name and Date:  
(Print or Type) \_\_\_\_\_

Firm Name: \_\_\_\_\_

\* This certification may not be completed until the effective date of the associated final NJPDES Discharge Permit.

**EXHIBIT G**  
**DEVELOPMENT CONSTRUCTION**  
**ESTIMATING SCHEDULE**

**Development Construction Cost Estimating Schedule**  
**Effective Date: May 2010\***

8" PVC Pipe (0'-8' Deep)	\$35.00 per LF
8" PVC Pipe (8'-10' Deep)	\$39.00 per LF
8" PVC Pipe (10'-12' Deep)	\$43.00 per LF
8" PVC Pipe (12'-14' Deep)	\$47.00 per LF
8" PVC Pipe (14' & up)	\$55.00 per LF
10" PVC Pipe (0'-8' Deep)	\$40.00 per LF
10" PVC Pipe (8'-10' Deep)	\$44.00 per LF
10" PVC Pipe (10'-12' Deep)	\$48.00 per LF
10" PVC Pipe (12'-14' Deep)	\$52.00 per LF
10" PVC Pipe (14' & up)	\$62.00 per LF
12" PVC Pipe (0'-8' Deep)	\$45.00 per LF
12" PVC Pipe (8'-10' Deep)	\$49.00 per LF
12" PVC Pipe (10'-12' Deep)	\$53.00 per LF
12" PVC Pipe (12'-14' Deep)	\$59.00 per LF
12" PVC Pipe (14' & up)	\$70.00 per LF
15" PVC Pipe (0'-8' Deep)	\$51.00 per LF
15" PVC Pipe (8'-10' Deep)	\$55.00 per LF
15" PVC Pipe (10'-12' Deep)	\$59.00 per LF
15" PVC Pipe (12'-14' Deep)	\$66.00 per LF
15" PVC Pipe (14' & up)	\$77.00 per LF

For Ductile Iron Pipe (DIP), 50% should be added to the cost per LF.

**Prices for pipes larger than 15" to be determined at time of application.**

8" Concrete Encasement	\$42.00 per LF
10" Concrete Encasement	\$44.00 per LF
12" Concrete Encasement	\$48.00 per LF
15" Concrete Encasement	\$55.00 per LF
Standard Manhole (0'-8')	\$2,900.00 each
Doghouse Manhole (0'-8')	\$3,700.00 each
Reinforced Concrete Manhole Riser	\$180.00 per VF
Drop Manhole Connection	\$180.00 per VF
Locking Manhole Casting	\$525.00 each
Connect to Existing Manhole	\$1,800.00 each
Standard 4" House Connection	\$825.00 each
Deep House Connection	\$1,200.00 each
4" Cleanout	\$350.00 each
Dewatering (0'-10')	\$35.00 per LF
Dewatering (10'-18')	\$50.00 per LF

**\*Costs are effective for one year from this date. After that, a MIMIMUM 3% increase PER YEAR shall be added to all prices from the effective date.**

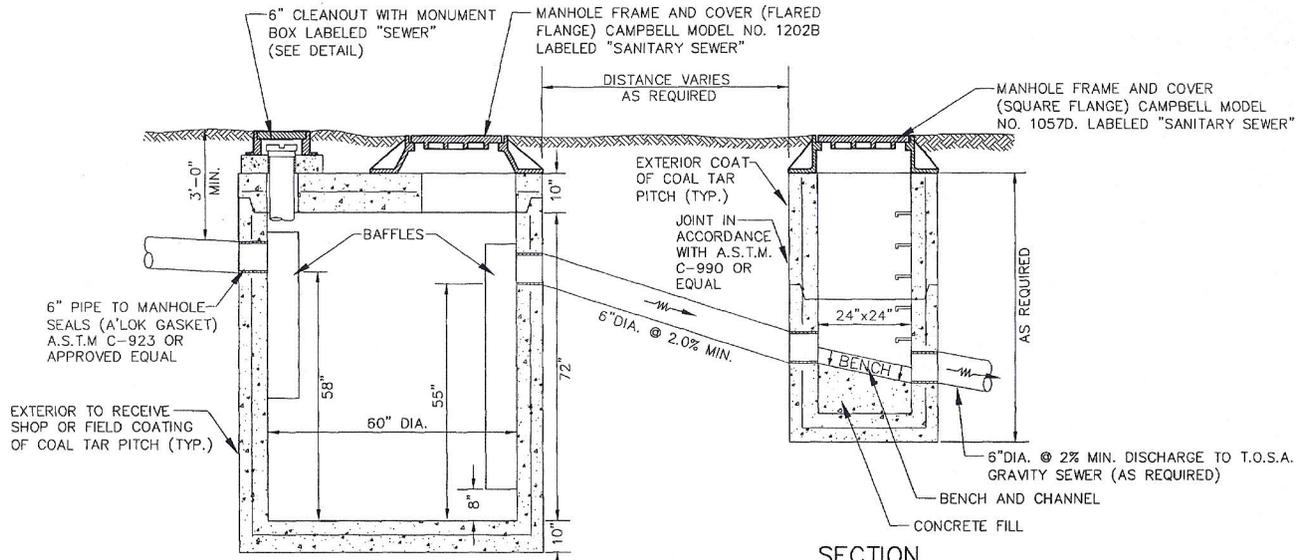
**EXHIBIT H**  
**AS - BUILT DRAWING**



**EXHIBIT I**  
**STANDARD CONSTRUCTION DETAILS**

PRECAST SLAB TOP TO WITHSTAND HS-20 LOADING  
 8" HOLE WITH WATERTIGHT SEAL  
 30" OPENING  
 10"

SECTION SLAB TOP



SECTION

SECTION

FRAME & COVER

1. ALL CASTINGS TO HAVE:
  - A. 3 NON-PENETRATING PICK HOLES.
  - B. 2 GALVANIZED STEEL DROP LIFTING HANDLES.
  - C. 1200-SERIES PATTERN TYPE.
  - D. AS MANUFACTURED BY CAMPBELL FOUNDRY OR EQUAL.

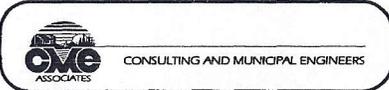
CONSTRUCTION NOTES

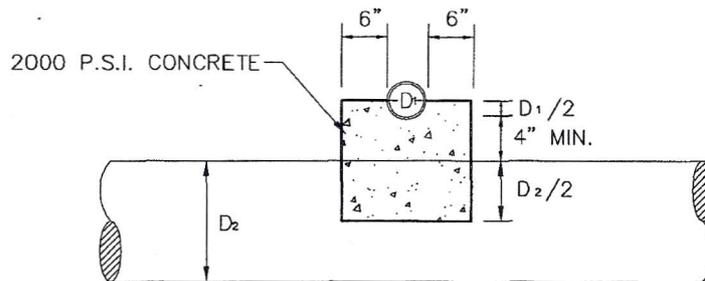
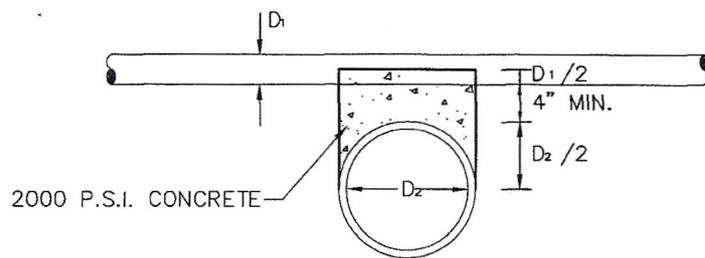
1. PRECAST CONCRETE GREASE INTERCEPTOR SECTIONS TO BE IN ACCORDANCE WITH ASTM DESIGNATION C-478 AS MANUFACTURED BY GARDEN STATE PRECAST.
2. RUBBER GASKET SEAL TO BE INSTALLED AT JOINT SECTIONS OF STRUCTURE IN ACCORDANCE WITH A.S.T.M. DESIGNATION C-443, C-990, OR APPROVED EQUAL.
3. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL BY THE TOWNSHIP OF OCEAN SEWERAGE AUTHORITY PRIOR TO CONSTRUCTION.
4. PRECAST CONCRETE SAMPLING STRUCTURE TO BE IN ACCORDANCE WITH A.S.T.M. DESIGNATION C-913 AS MANUFACTURED BY GARDEN STATE PRECAST OR APPROVED EQUAL.

500 GALLON GREASE TRAP & SAMPLING STRUCTURE

N.T.S.

TOWNSHIP OF OCEAN SEWERAGE AUTHORITY  
 MONMOUTH COUNTY, NEW JERSEY  
STANDARD DETAILS  
 MAY 2010





## CONCRETE CRADLE

N.T.S.

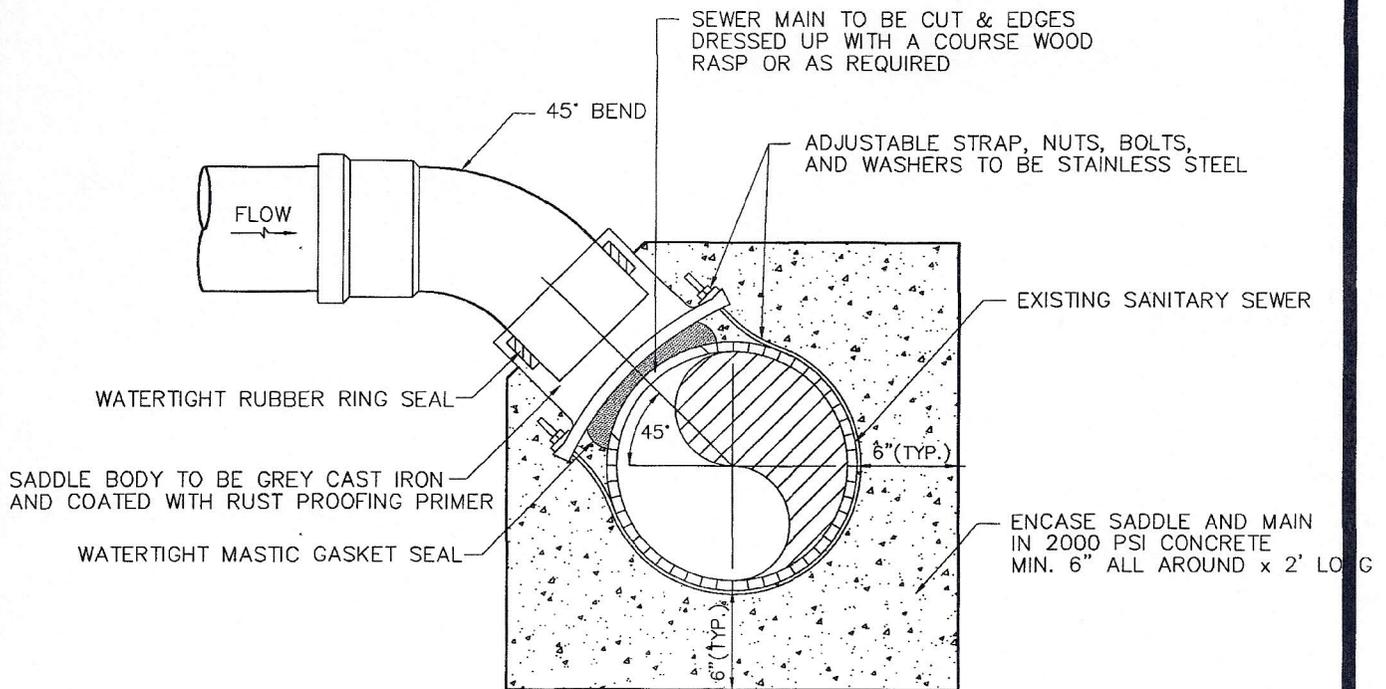
TOWNSHIP OF OCEAN SEWERAGE AUTHORITY  
MONMOUTH COUNTY, NEW JERSEY

STANDARD DETAILS

MAY 2010



CONSULTING AND MUNICIPAL ENGINEERS



CONSTRUCTION NOTES

STRAP-ON SADDLE TO BE AS MANUFACTURED BY "GENECO" OR APPROVED EQUAL.  
 STRAP-ON SADDLE TO BE USED ON EXISTING MAINS ONLY WHERE A WYE BRANCH LATERAL CONNECTION IS NOT AVAILABLE.

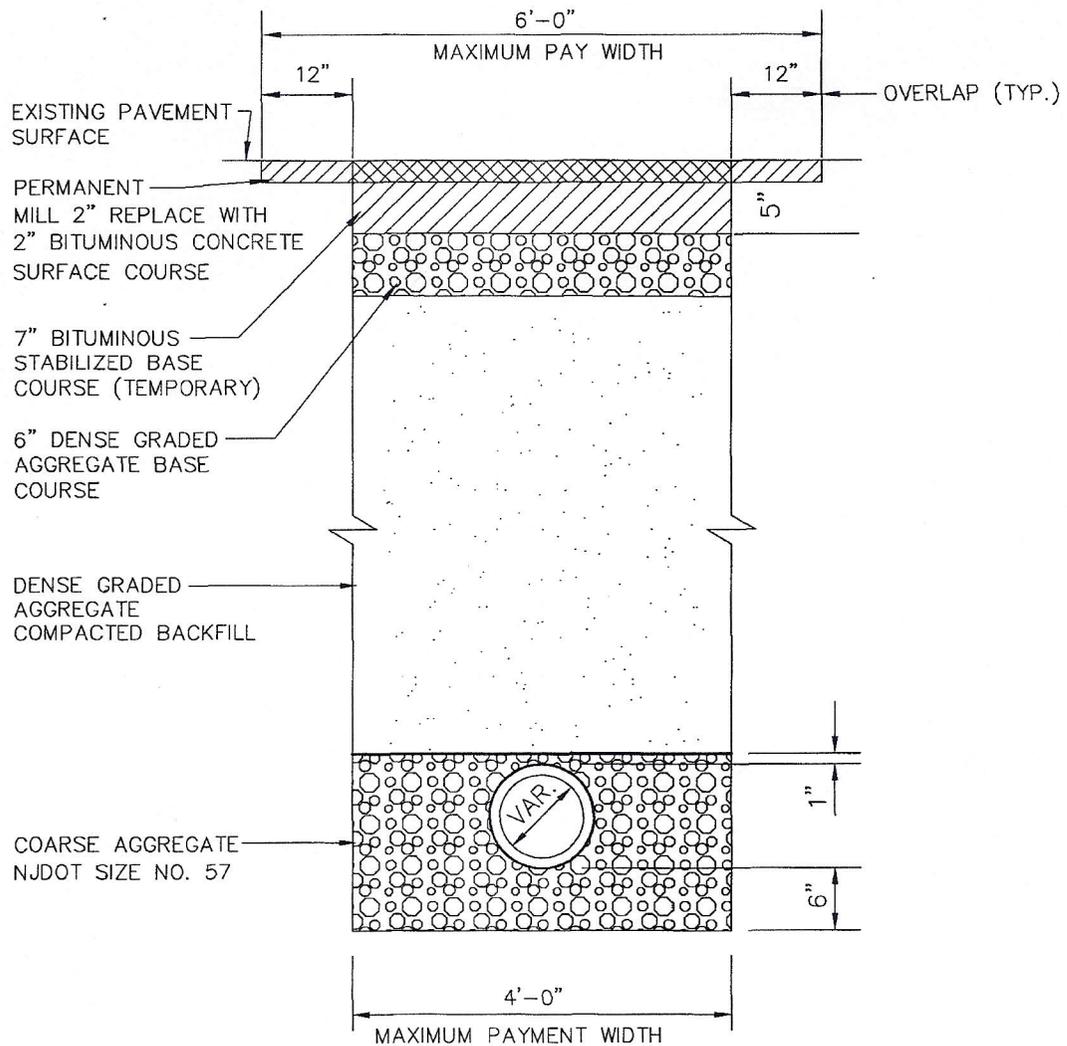
GENECO TYPE 'E' SEALTITE  
STRAP ON SADDLE DETAIL

N.T.S.

TOWNSHIP OF OCEAN SEWERAGE AUTHORITY  
 MONMOUTH COUNTY, NEW JERSEY  
STANDARD DETAILS  
 MAY 2010



CONSULTING AND MUNICIPAL ENGINEERS



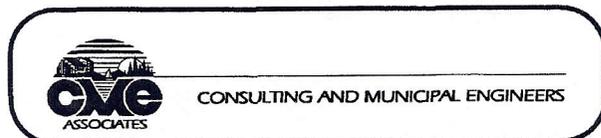
## ROADWAY TRENCH REPAIR

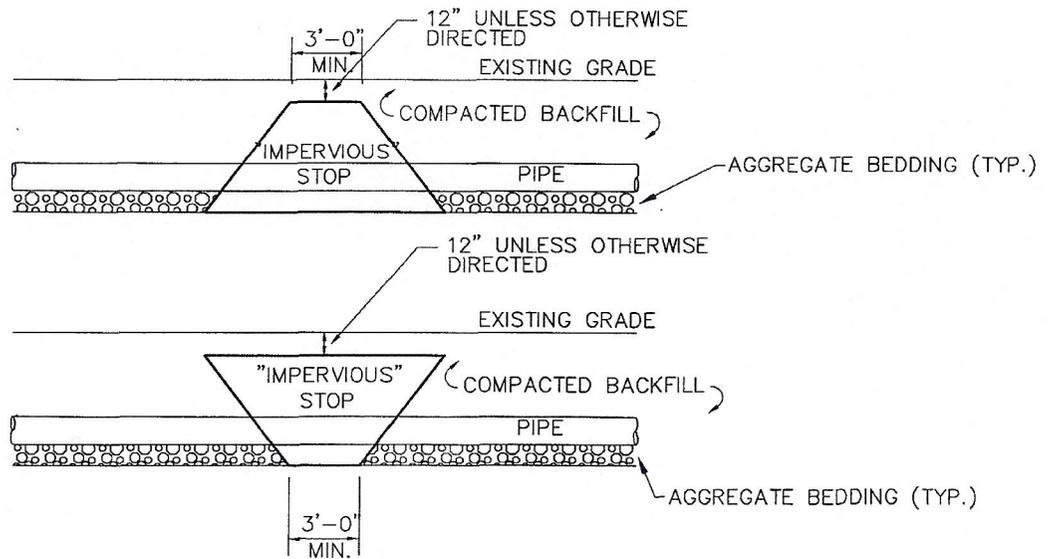
N.T.S.

TOWNSHIP OF OCEAN SEWERAGE AUTHORITY  
MONMOUTH COUNTY, NEW JERSEY

STANDARD DETAILS

MAY 2010





CONSTRUCTION NOTES

1. IMPERVIOUS PIPE DAMS SHALL BE INSTALLED A MAXIMUM OF 300 FEET APART, WITH AT LEAST ONE DAM BETWEEN MANHOLES.
2. IMPERVIOUS PIPE DAMS SHALL BE INSTALLED EQUIDISTANT FROM PIPE JOINTS
3. IMPERVIOUS PIPE DAM SHALL BE NATURAL CLAY, MANUFACTURED CLAY PANELS, CONCRETE OR OTHER SUITABLE APPROVED MATERIAL AND SHALL HAVE A MAXIMUM PERMIABILITY OF  $1 \times 10^{-5}$  CM/SEC.
4. IMPERVIOUS PIPE DAM SHAPE MAY BE INVERTED IF BACKFILL IS PLACED FIRST.
5. IMPERVIOUS PIPE DAM TO BE UTILIZED IF AND WHERE DIRECTED BY THE AUTHORITY.

TYPICAL PIPE TRENCH DAM DETAIL

N.T.S.

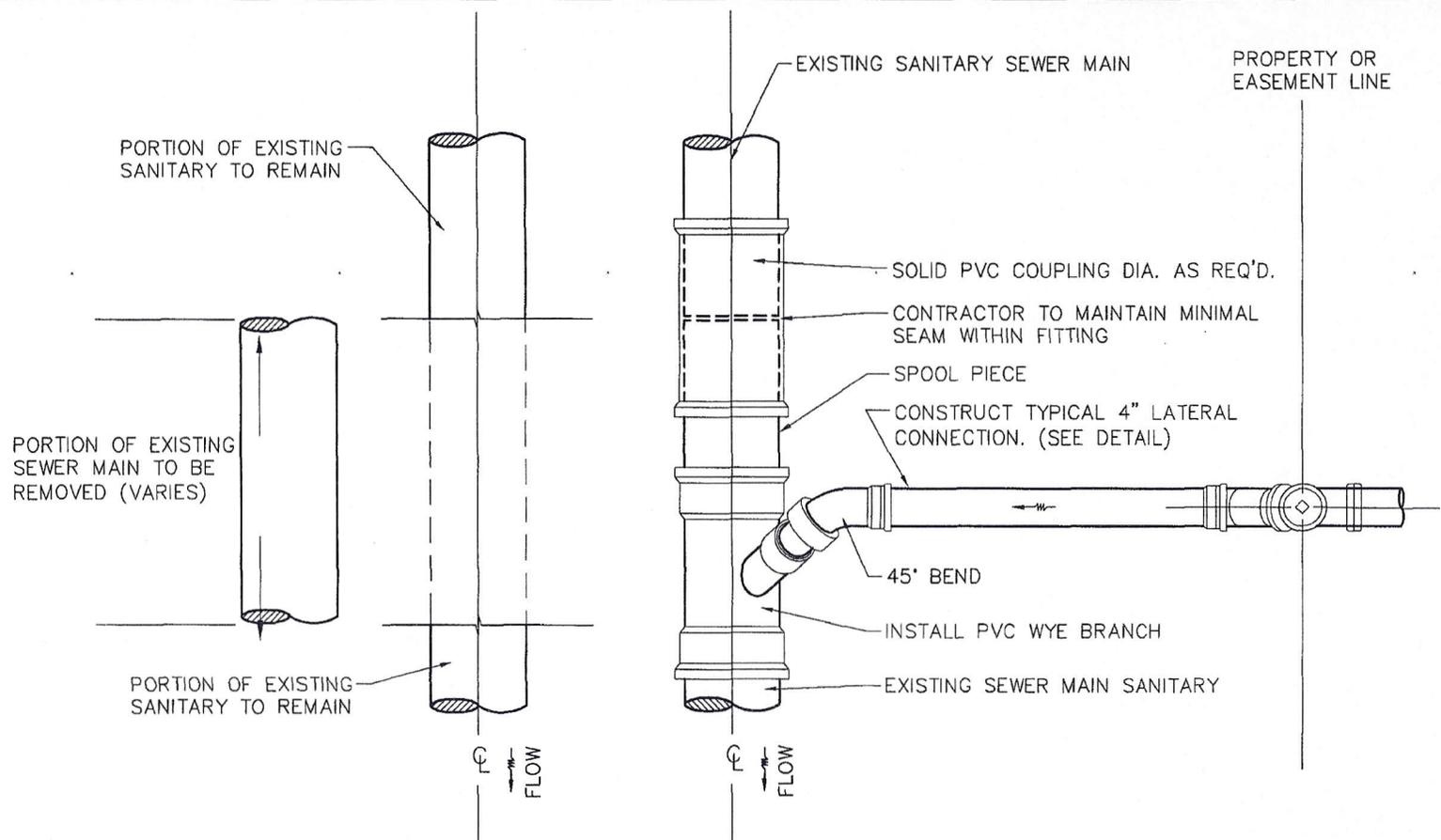
TOWNSHIP OF OCEAN SEWERAGE AUTHORITY  
MONMOUTH COUNTY, NEW JERSEY

STANDARD DETAILS

MAY 2010



CONSULTING AND MUNICIPAL ENGINEERS



CONSTRUCTION NOTES

1. "CUT-IN" CONNECTION TO EXISTING SANITARY SYSTEM TO BE UTILIZED IF AND WHERE DIRECTED BY THE AUTHORITY.
2. CONTRACTOR TO MAINTAIN EXISTING FLOW AND INTEGRITY OF THE SYSTEM DURING CONSTRUCTION. BYPASSING OF EXISTING MAINS SHALL REQUIRE AN APPROVED BYPASS PLAN.

"CUT-IN" LATERAL CONNECTION  
TO EXISTING MAIN

N.T.S.

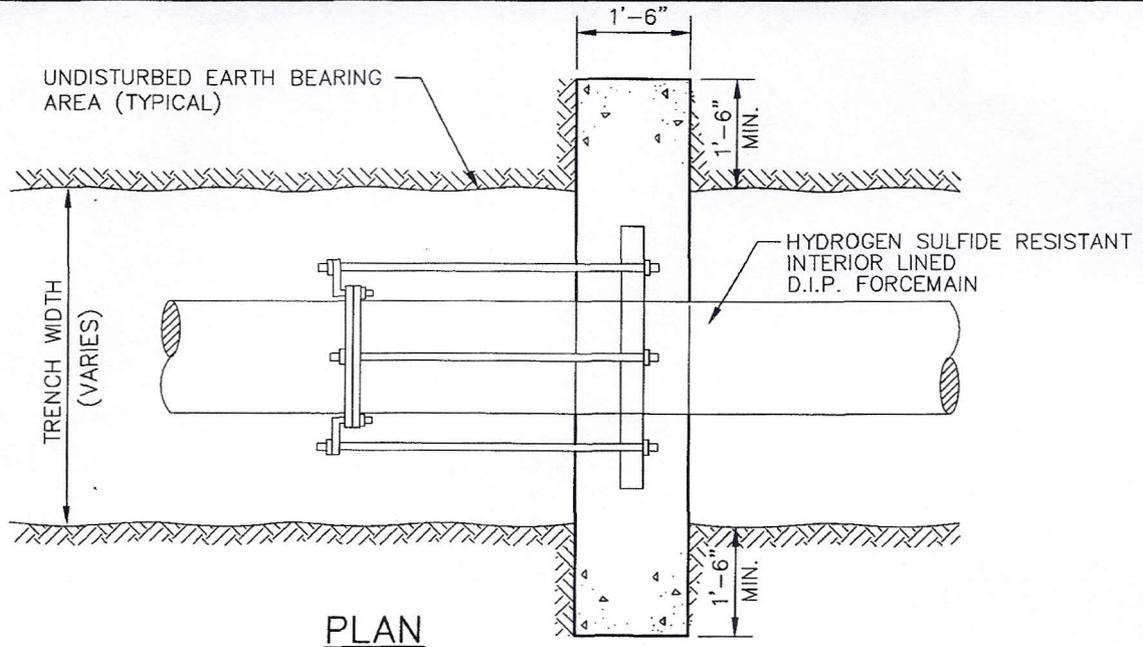
TOWNSHIP OF OCEAN SEWERAGE AUTHORITY  
MONMOUTH COUNTY, NEW JERSEY

STANDARD DETAILS

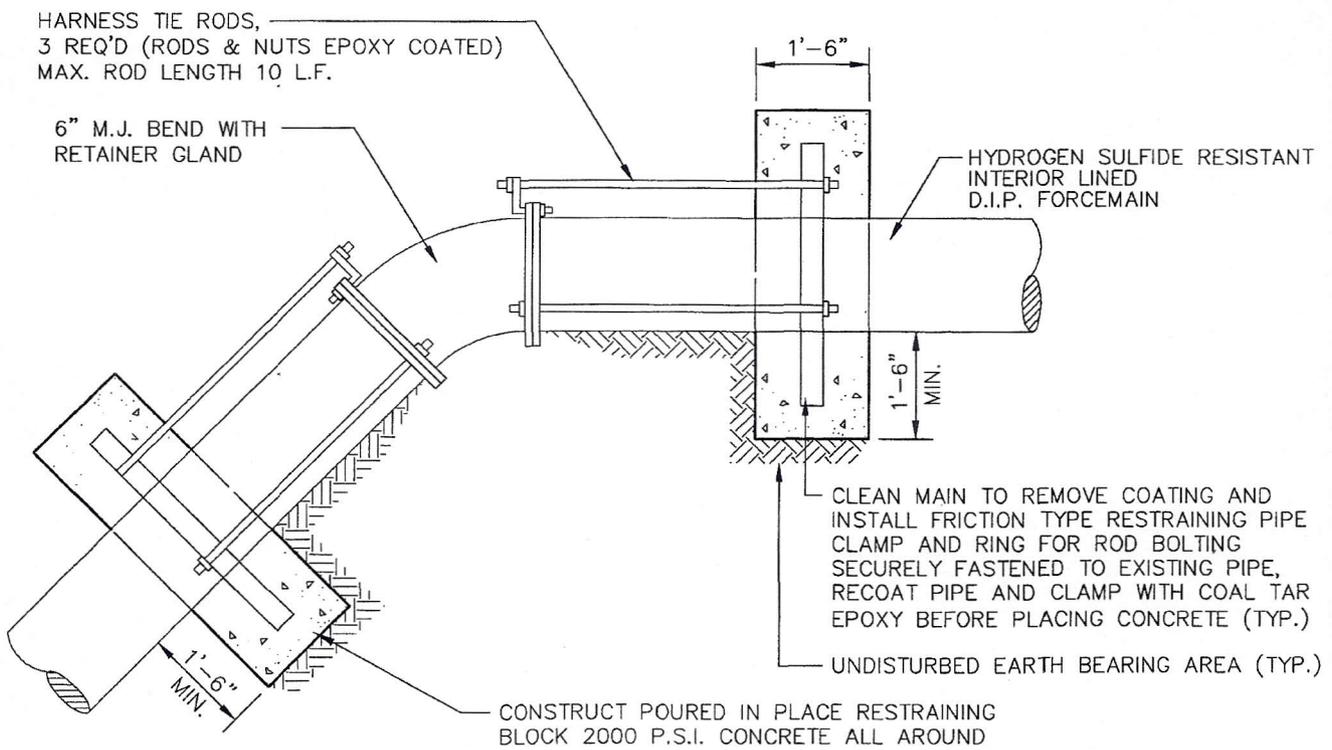
MAY 2010



CONSULTING AND MUNICIPAL ENGINEERS



PLAN



ELEVATION

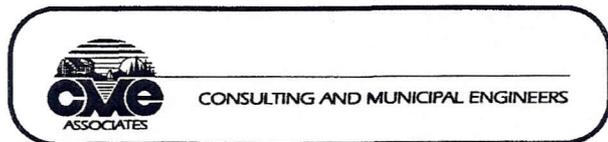
VERTICAL BEND  
RESTRAINT DETAILS

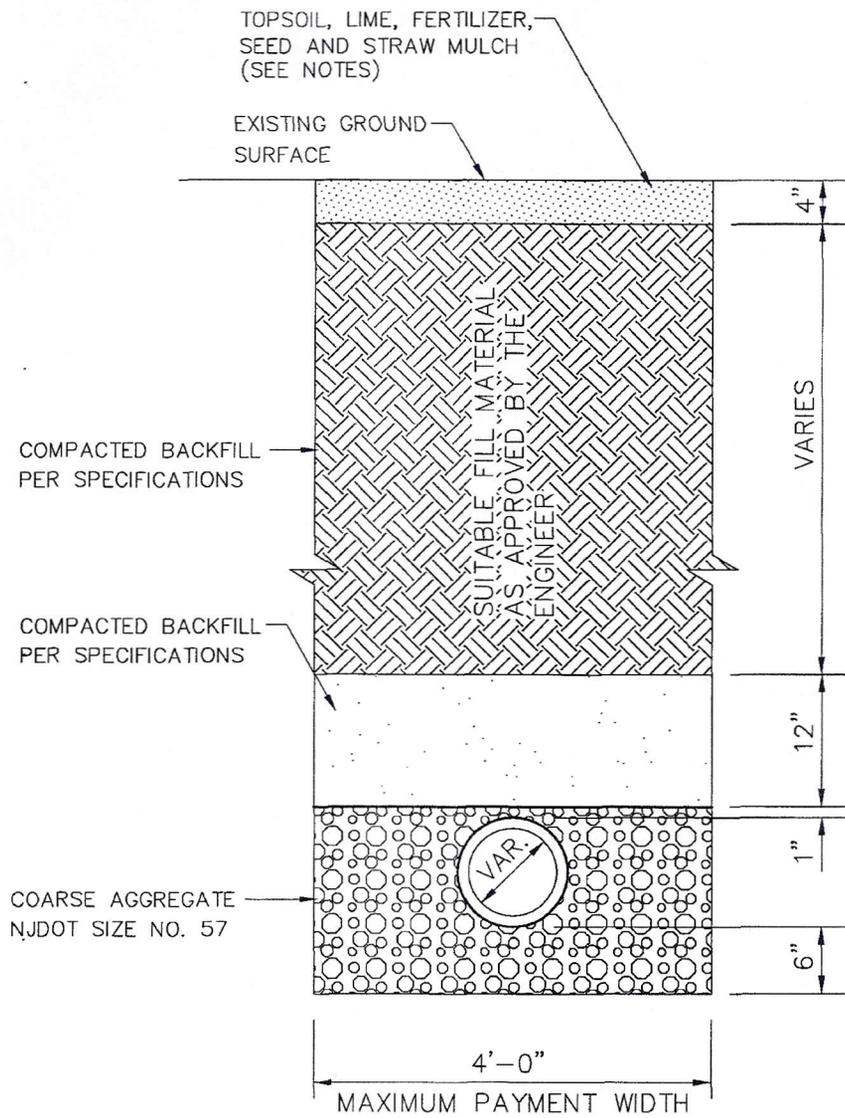
N.T.S.

TOWNSHIP OF OCEAN SEWERAGE AUTHORITY  
MONMOUTH COUNTY, NEW JERSEY

STANDARD DETAILS

MAY 2010





## UNPAVED TRENCH REPAIR

N.T.S.

### CONSTRUCTION NOTES

1. RESTORE ALL DISTURBED AREAS
2. MAXIMUM PAYMENT WIDTH SHALL BE EQUAL TO EASEMENT WIDTH.
3. ALL "EXISTING" LAWN AREAS SHALL BE RESTORED WITH SOD.

TOWNSHIP OF OCEAN SEWERAGE AUTHORITY  
MONMOUTH COUNTY, NEW JERSEY

STANDARD DETAILS

MAY 2010

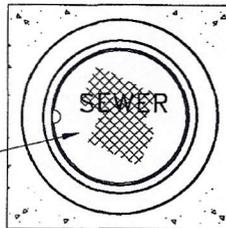


CONSULTING AND MUNICIPAL ENGINEERS

CONSTRUCTION NOTES

MONUMENT PROTECTION BOX  
TO WITHSTAND HS-20 LOADING  
CONDITIONS.

COVER TO BE LABELED "SEWER"



PLAN

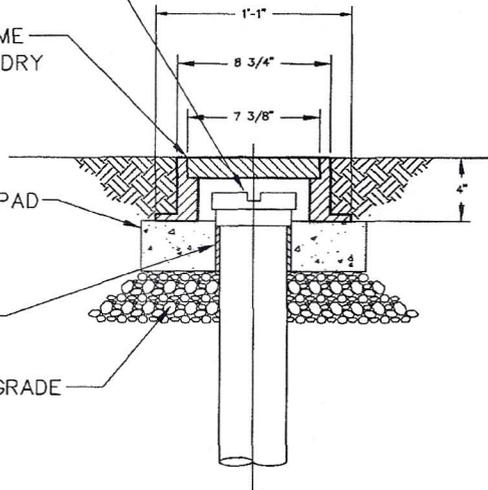
BRASS CAP WITH RECESSED FITTING

MONUMENT BOX ACCESS FRAME  
AND COVER (CAMPBELL FOUNDRY  
CO. PATTERN NUMBER 4155)

1'x 1' CONCRETE SUPPORT PAD

PROVIDE 1/2" PREMOLDED  
ASPHALT EXPANSION JOINT

6" 3/4" CLEAN STONE SUBGRADE



MONUMENT BOX/ACCESS COVER

N.T.S.

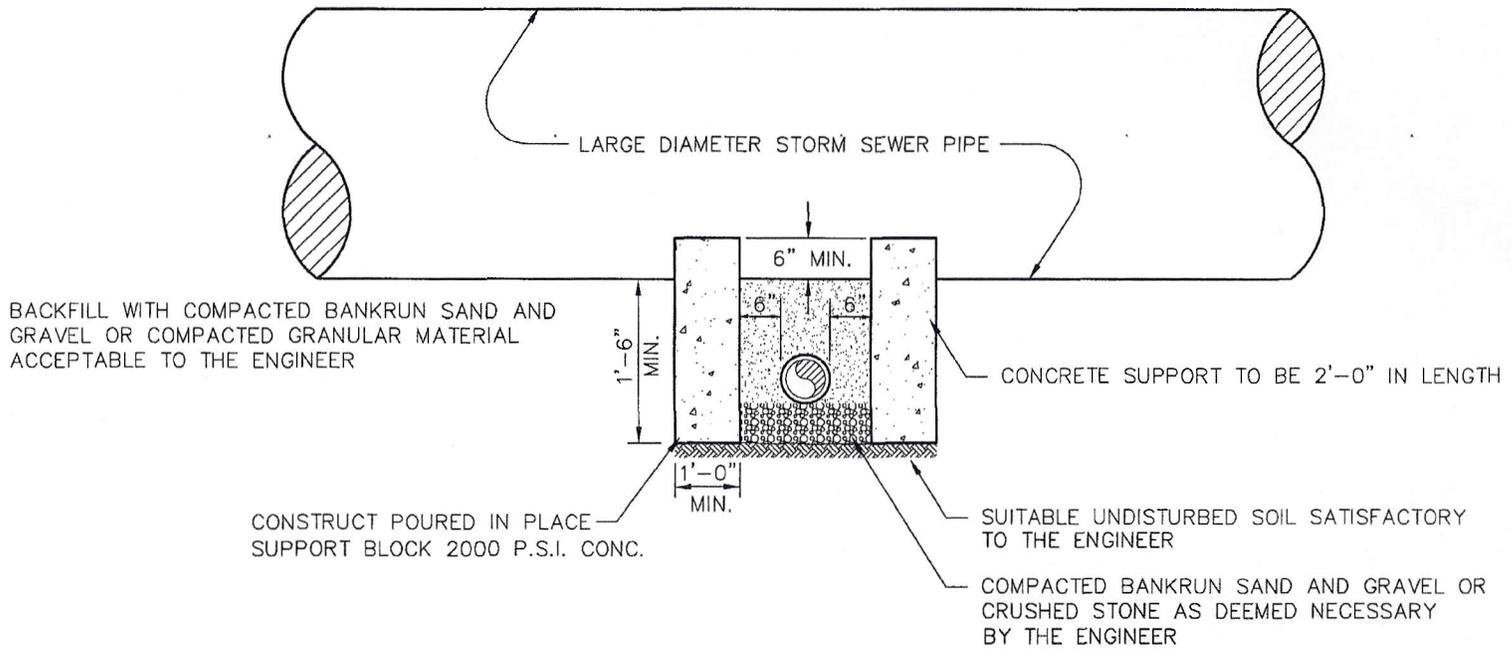
TOWNSHIP OF OCEAN SEWERAGE AUTHORITY  
MONMOUTH COUNTY, NEW JERSEY

STANDARD DETAILS

MAY 2010



CONSULTING AND MUNICIPAL ENGINEERS



CONCRETE SUPPORT BLOCK DETAIL

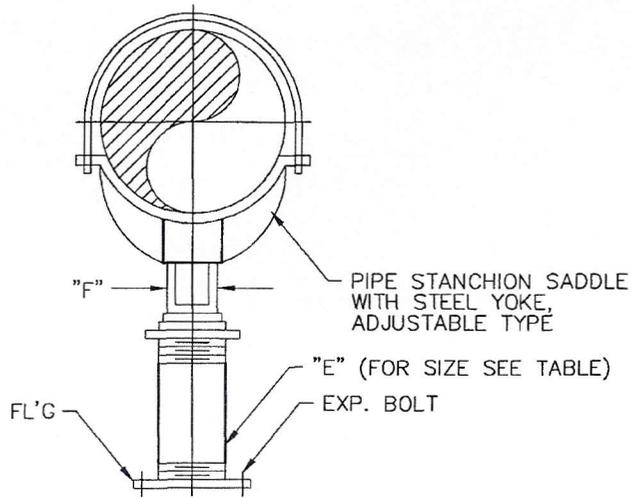
N.T.S.

TOWNSHIP OF OCEAN SEWERAGE AUTHORITY  
 MONMOUTH COUNTY, NEW JERSEY

STANDARD DETAILS

MAY 2010

CONSULTING AND MUNICIPAL ENGINEERS



PIPE DIA.	MAX. LOAD	MAX. SPACING	"E"	"F"
4"	2000 LB	12'-0"	3"	2 1/2"
6"	3000	12'-0"	3"	2 1/2"
8"	4000	12'-0"	3"	2 1/2"
10"	4000	12'-0"	3"	2 1/2"
12"	4000	12'-0"	3"	2 1/2"

## SADDLE SUPPORT

N.T.S.

TOWNSHIP OF OCEAN SEWERAGE AUTHORITY  
MONMOUTH COUNTY, NEW JERSEY

STANDARD DETAILS

MAY 2010



CONSULTING AND MUNICIPAL ENGINEERS