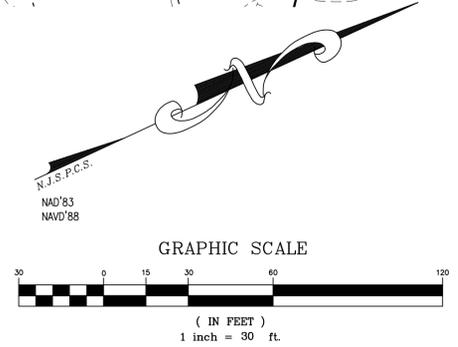


SITE PLAN - ATHLETIC FIELD IMPROVEMENTS

SCALE: 1"=30'

LEGEND			
TRAVERSE MONUMENT	UNKNOWN MANHOLE	WATER VALVE	PROPERTY LINE (P0)
IRON PIPE	ELECTRIC MANHOLE	WATER METER	PROPERTY LINE
BOOK PAGE	SANITARY MANHOLE	FIRE HYDRANT	SETBACK LINE
RIGHT OF WAY SIGN	CLEAN OUT	WATER SHUT OFF	WETLANDS BOUNDARY
R.O.W.	TELEPHONE MANHOLE	MONITORING WELL	STREAM OR BROOK
FLAGPOLE	STORM MANHOLE	IRRIGATION CONTROL VALVE	TREE LINE
MAILBOX	CATCH BASIN	GAS VALVE	CHAIN LINK FENCE
DUMPSTER	FLARED END SECTION	GAS METER	WOOD FENCE
HANDICAP SYMBOL	LIGHT POLE	UTILITY POLE	WATER LINE
	WALL-MOUNTED LIGHT	GUY WIRE	GAS LINE
		ELECTRIC METER	ELECTRIC LINE
			TELEPHONE LINE
			OVERHEAD WIRES
			SANITARY SEWER
			STORM SEWER
			GUIDE RAIL



NJ Certificate of Authorization
 Eng. No. 24047937500
 Arch. No. 21400012400
 Date 1/22/20
 Checked EB
 Drawn PRE

ERIK E. BOE, P.E.
 THE PROFESSIONAL ENGINEER
 License No. NJ2404668100

Revisions:
 1 04/09/20 NUDEP COMMENTS
 2 04/13/20 NUDEP COMMENTS

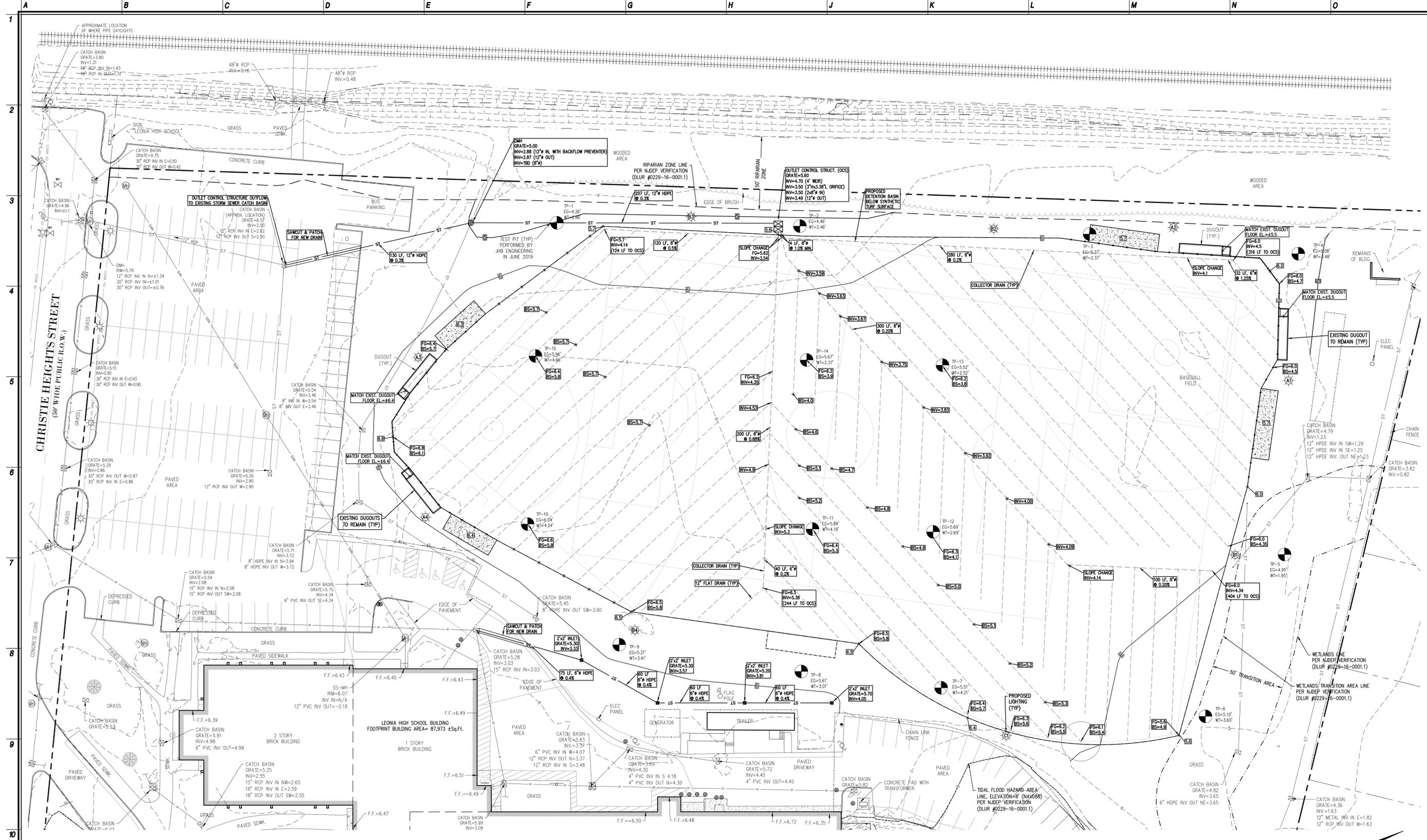
LAN ASSOCIATES
 engineering • planning • architecture • surveying
 445 GODWIN AVENUE, MIDLAND PARK, N.J. 07432 (201)447-6400

SITE PLAN
 ATHLETIC FIELD IMPROVEMENTS AT LEONIA HIGH SCHOOL
 BLOCK 210 - LOTS 1, 11, 12, 13, & 18
 100 CHRISTIE HEIGHTS STREET
 BOROUGH OF LEONIA, BERGEN COUNTY, NJ 07605

Job No. 2.20209.09
 File No. 2020909C1

State Project#: 03-2620-050-20-2000

SP.21

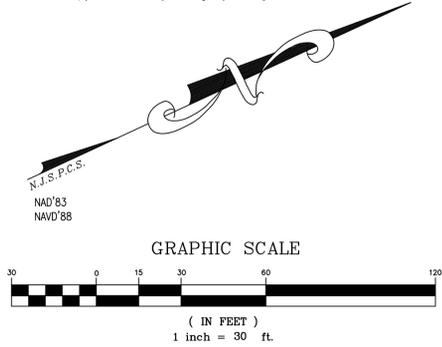


GRADING & UTILITIES PLAN

SCALE: 1"=30'

LEGEND			
TRaverse	UNKNOWN MANHOLE	WATER VALVE	PROPERTY LINE (PO)
MONUMENT	ELECTRIC MANHOLE	WATER METER	PROPERTY LINE
IRON PIPE	SANITARY MANHOLE	FIRE HYDRANT	SETBACK LINE
BOOK	CLEAN OUT	WATER SHUT OFF	WETLANDS BOUNDARY
PAGE	TELEPHONE MANHOLE	MONITORING WELL	STREAM OR BROOK
RIGHT OF WAY	R.O.W.	STORM MANHOLE	TREE LINE
SIGN	STORM MANHOLE	CATCH BASIN	CHAIN LINK FENCE
FLAGPOLE	FLARED END SECTION	IRRIGATION CONTROL VALVE	WOOD FENCE
MALIBOX	LIGHT POLE	GAS VALVE	WATER LINE
DUMPSTER	WALL-MOUNTED LIGHT	GAS METER	GAS LINE
HANDICAP SYMBOL	BOLLARD	UTILITY POLE	ELECTRIC LINE
	TREE	GUY WIRE	TELEPHONE LINE
		ELECTRIC METER	OVERHEAD WIRES
			SANITARY SEWER
			STORM SEWER
			GUIDE RAIL

GRADING LEGEND	
FG	= FINISHED GRADE
INV	= INVERT
BS	= BOTTOM OF STORAGE FOR DETENTION BASIN
LF	= LINEAR FEET
EG	= EXISTING GRADE
WT	= WATER TABLE



NJ Certificate of Authorization
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 Arch. No. 21AC00012400
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 Drawn PRE

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 2 04/13/20 NDEP COMMENTS

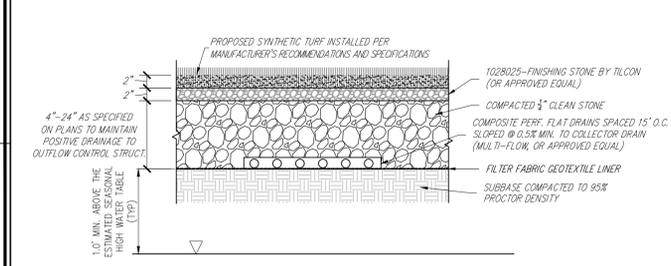
LAN ASSOCIATES
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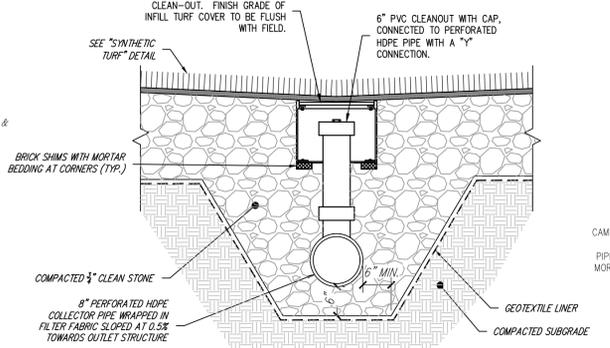
Job No. 2.20209.09
 File No. 2020909C1

State Project#: 03-2620-050-20-2000

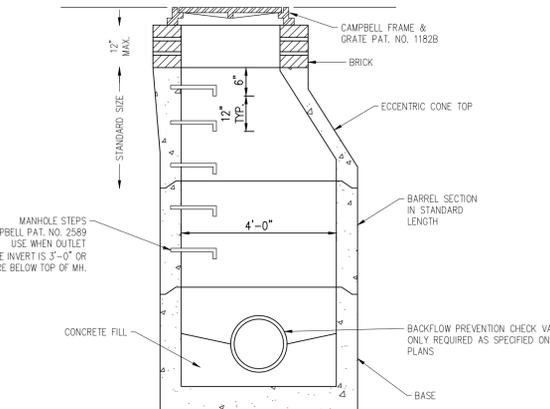
SP.22



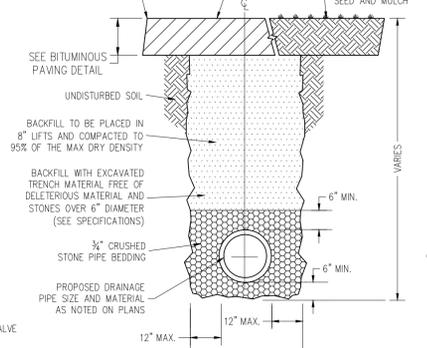
SYNTHETIC TURF FIELD WITH FLAT DRAINS
N.T.S.



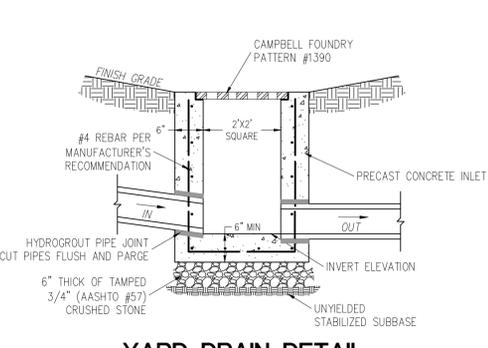
FIELD CLEANOUT WITHIN ARTIFICIAL TURF
N.T.S.



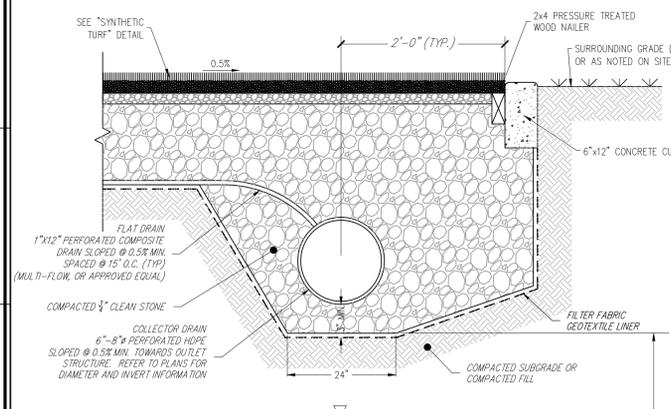
PRECAST CONCRETE STORM MANHOLE
N.T.S.



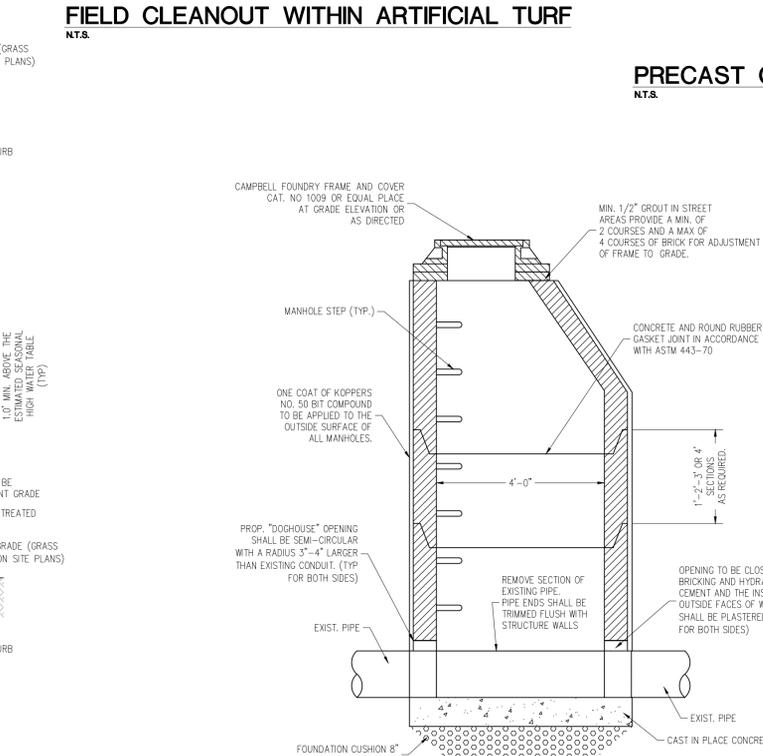
DRAINAGE PIPE TRENCH DETAIL
N.T.S.



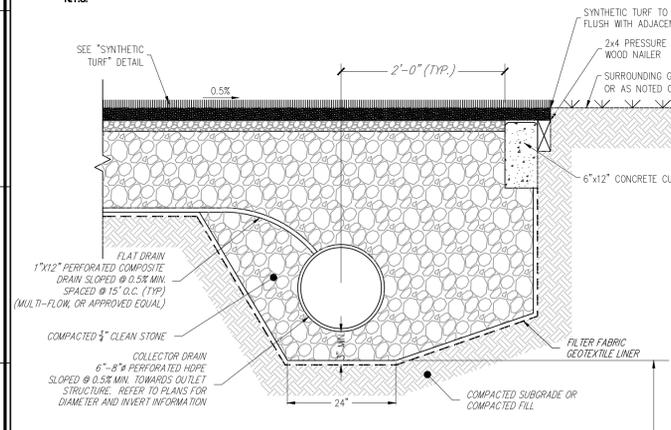
YARD DRAIN DETAIL
N.T.S.



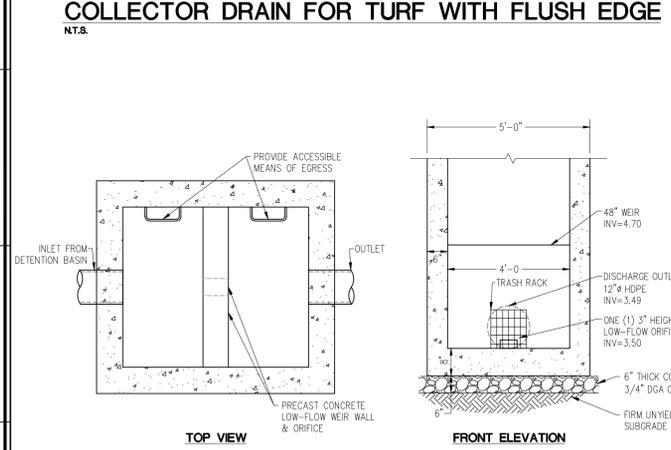
COLLECTOR DRAIN FOR TURF WITH CURB EDGE
N.T.S.



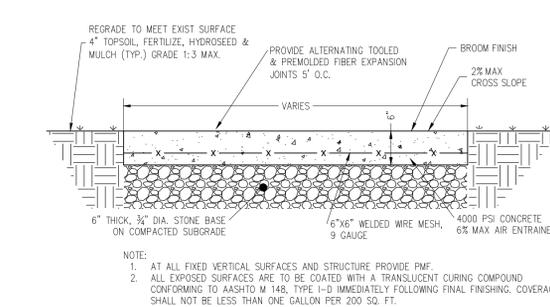
STORM DOGHOUSE MANHOLE DETAIL
N.T.S.



COLLECTOR DRAIN FOR TURF WITH FLUSH EDGE
N.T.S.



OUTLET CONTROL STRUCTURE
N.T.S.



CONCRETE SLAB DETAIL
N.T.S.

ITEM	QTY.	DESCRIPTION	MAT'L
1	1	ULTRAFLEX CHECKMATE CHECK VALVE	MUST BE SUPPLIED
2	1	CLAMP	MUST BE SUPPLIED

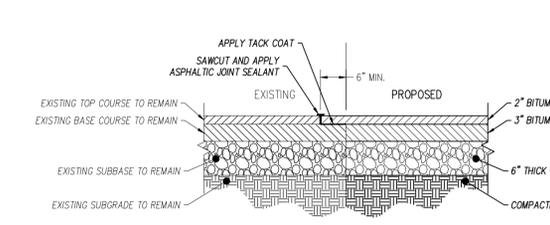
NOMINAL PIPE SIZE I.D.	OVERALL LENGTH*	NUMBER OF CLAMPS	CUFF DEPTH	BACK PRESSURE RATING**	WEIGHT					
Inches	Millimeters	Inches	Millimeters	Feet	Meters					
12	300	19.8	503	1	2.0	51	68	20.1	37	17

PROVIDE 12" BACKFLOW PREVENTER CHECK VALVE AT DOWNSTREAM END OF DISCHARGE PIPE IN MANHOLD/CATCH BASIN STRUCTURE AS PER MANUFACTURER'S GUIDELINES (CHECKMATE INLINE CHECK VALVE BY TIDEFLEX OR APPROVED EQUIVALENT)

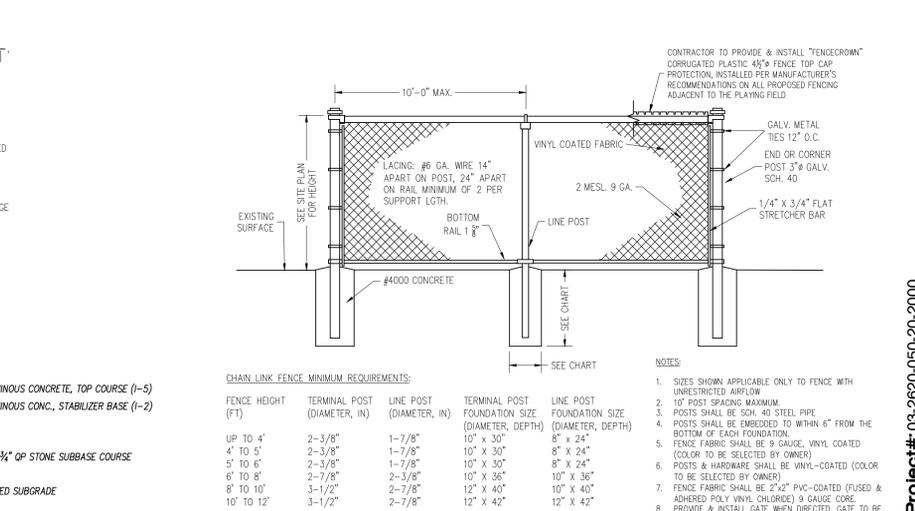
Downstream Flanged

CHECKMATE® VALVE										
NOMINAL PIPE SIZE I.D.	OVERALL LENGTH*	NUMBER OF CLAMPS	CUFF DEPTH	BACK PRESSURE RATING**	WEIGHT					
Inches	Millimeters	Inches	Millimeters	Feet	Meters					
12	300	19.8	503	1	2.0	51	68	20.1	37	17

BACKFLOW PREVENTER CHECK VALVE
N.T.S.



BITUMINOUS PAVING - SAWCUT & PATCH DETAIL
N.T.S.



CHAIN LINK FENCE DETAIL
N.T.S.

NJ Certificate of Authorization
 Eng'r. No. 2402737500
 Arch. No. 21AC00012400
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Job No. 20200909
 Rev No. 20200909C1

State Project#: 03-2620-050-20-2000

CD.01