

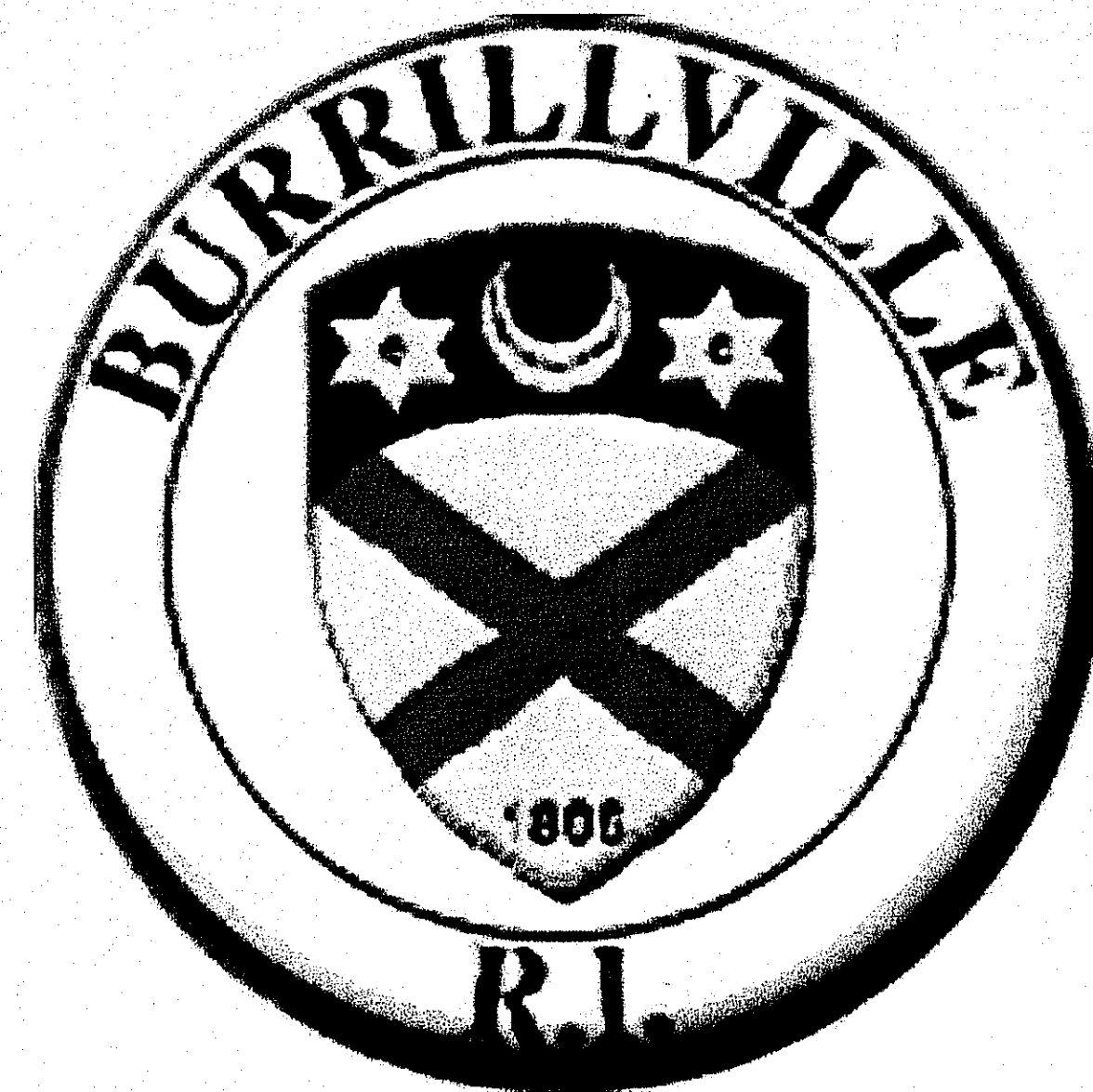
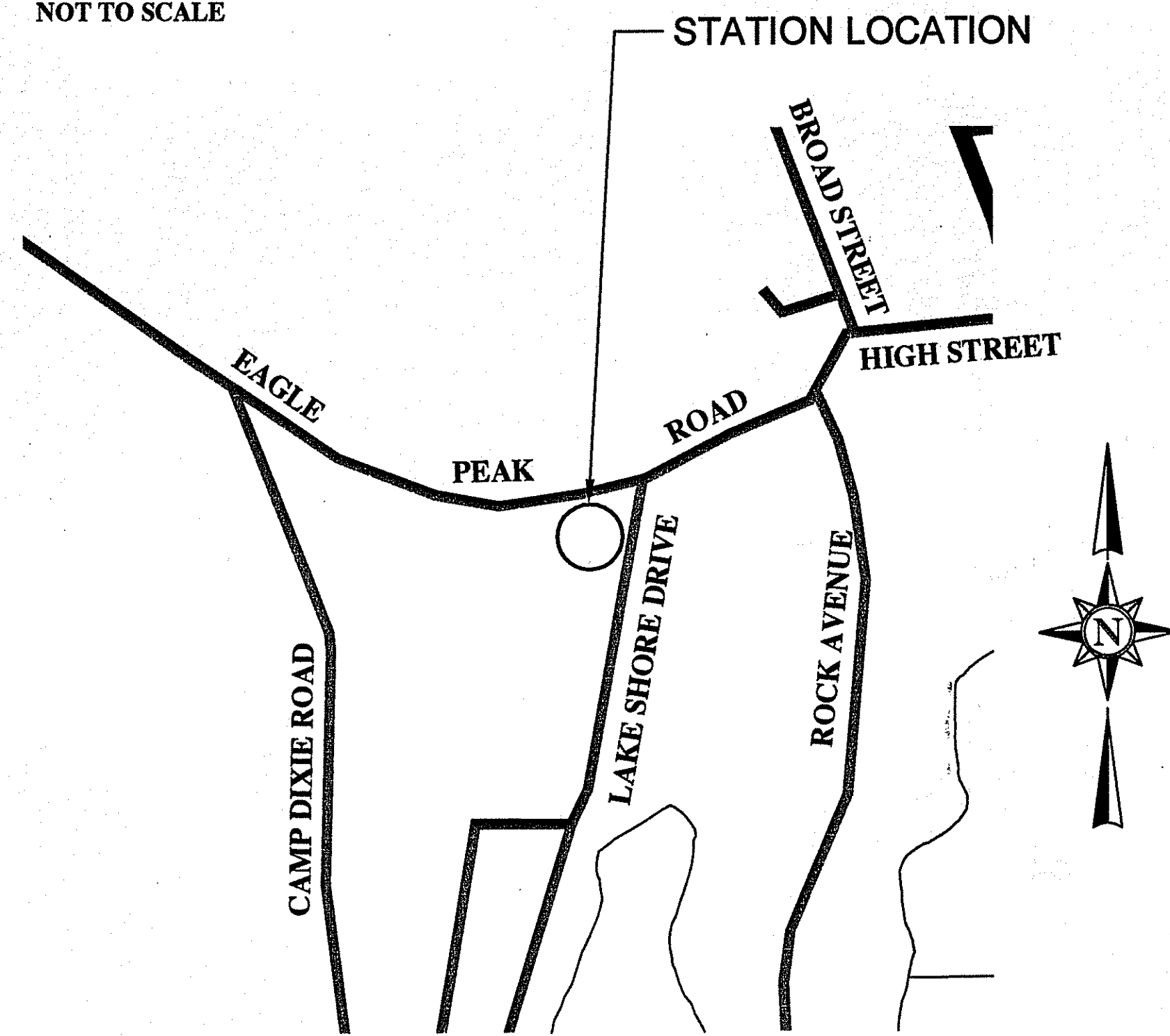
# Burrillville Sewer Commission

## EAGLE PEAK EJECTOR STATION IMPROVEMENTS

### Burrillville, Rhode Island

#### LOCATION PLANS

NOT TO SCALE



#### WETLANDS PROTECTION ACT REQUEST FOR PRELIMINARY DETERMINATION RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

#### WETLANDS SUBMISSION PACKAGE

SHEET	TITLE
1 of 7	CVR COVER
2 of 7	G-1 LEGEND - ABBREVIATIONS - GENERAL NOTES
3 of 7	S-1 EXISTING CONDITIONS SITE PLAN
4 of 7	S-2 PROPOSED SITE PLAN
5 of 7	S-3 PROPOSED GRADING PLAN
6 of 7	D-1 CONSTRUCTION DETAILS 1
7 of 7	D-2 CONSTRUCTION DETAILS 2

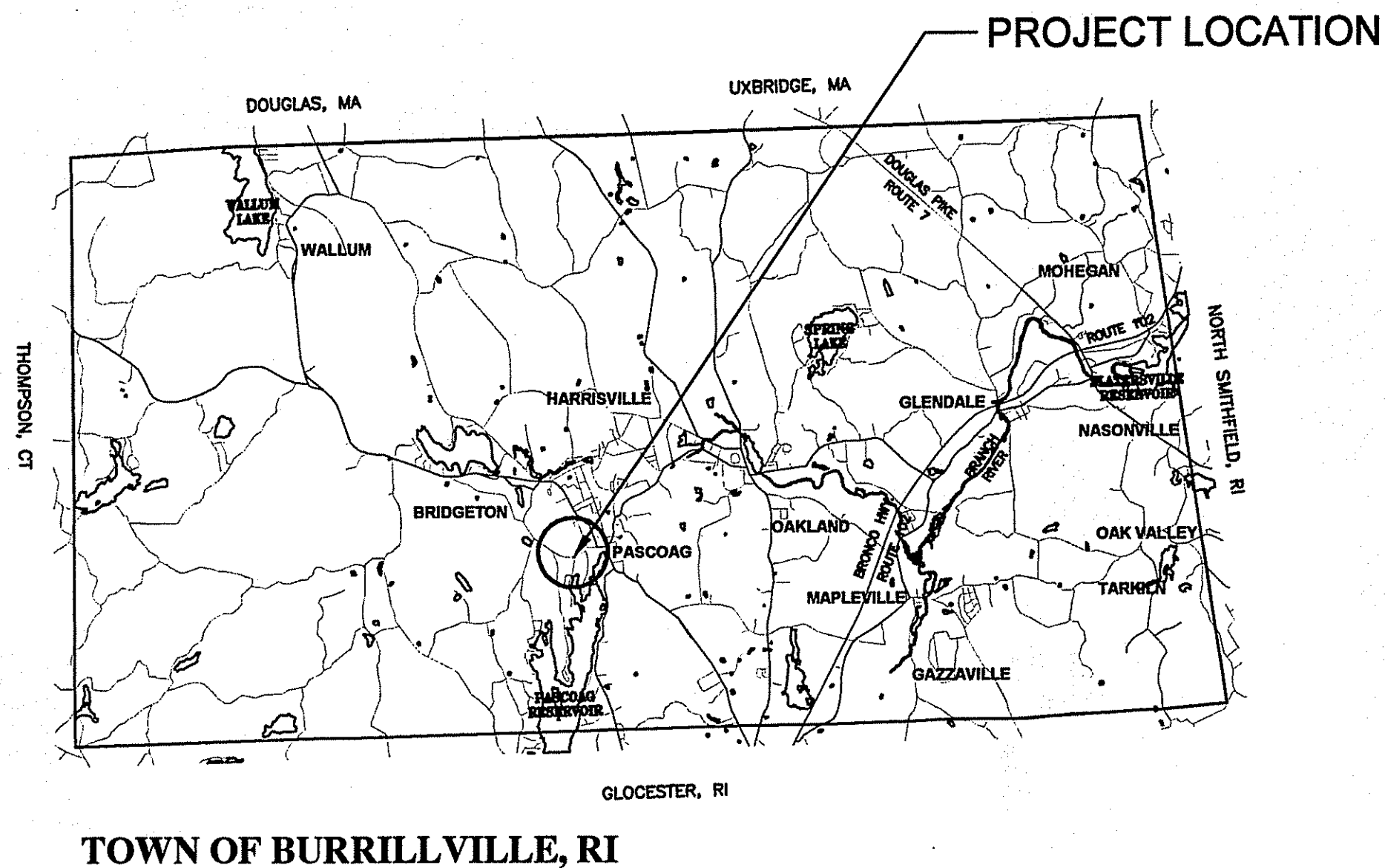
#### BOARD OF SEWER COMMISSIONERS

DON C. WOLFE, CHAIRMAN

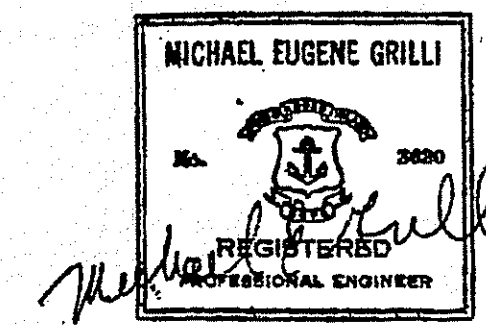
WALLACE F. AUCLAIR, VICE-CHAIRMAN

SCOTT P. RABIDEAU, SECRETARY

MARCH 2009



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED APR 15 2009 FILE # 01-0057  
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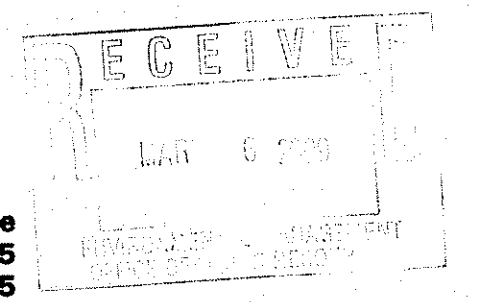


*Charles A. Harbert*

Prepared by:

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# LEGEND

## GENERAL SYMBOLS

### EXISTING PROPOSED

		CURB OR BERM (TYPE AS NOTED)
		EDGE OF PAVEMENT
		CONTOUR
		CATCH BASIN (OR GUTTER INLET, LEACHING BASIN, DROP INLET, CATCH BASIN CURB INLET)
		ELECTRIC HANDHOLE (NUMBER AS NOTED)
		ELECTRIC MANHOLE
		WATER MANHOLE
		SEWER MANHOLE
		DRAINAGE MANHOLE
		WATER GATE
		HYDRANT
		STREET LIGHT POLE
		UTILITY POLE
		SIGN
		FLARED END SECTION W/ RIP-RAP
		DRAIN LINE (SIZE AS NOTED)
		SEWER LINE (SIZE AS NOTED)
		TELEPHONE LINE
		ELECTRIC LINE
		OVERHEAD WIRES
		GAS LINE (SIZE NOTED)
		WATER LINE (SIZE AS NOTED)
		MAIL BOX
		PROPOSED RETAINING WALL (TYPE NOTED)
		HIGHWAY/PROPERTY BOUND (TYPE AS NOTED)
		CITY, TOWN OR COUNTY RIGHT-OF-WAY LINE
		PROPERTY LINE
		EASEMENT LINE (TYPE NOTED)
		CONSTRUCTION BASELINE
		WHEELCHAIR RAMP
		TREE (SIZE AND TYPE AS NOTED)
		HEDGE / SHRUBS
		FENCE (SIZE AND TYPE AS NOTED)
		SILT FENCE
		HAY BALE / SILTATION FENCE
		WOODED AREA / TREE LINE
		SPOT GRADE
		SAW CUT LINE
		TEST PIT
		LEDGE
		BUILDING SETBACK
		BUILDING
		RIVER OR STREAM EDGE
		50' AND 100' WETLAND BUFFER LIMIT
		100' RIVER BANK LIMIT
		200' RIVER BANK LIMIT
		100 YEAR FLOOD LIMIT
		WETLAND FLAG W/ DESIGNATION
		CURBING - 2 FOOT RADIAL (LEFT AND RIGHT)
		CURBING - 3 FOOT TRANSITION (LEFT AND RIGHT)
		CURBING - 6 FOOT TRANSITION (LEFT AND RIGHT)
		BORING LOCATION AND DESIGNATION

# ABBREVIATIONS

## GENERAL

ABAN.	ABANDON
ADJ.	ADJUST
APPROX.	APPROXIMATE
B	BENCHMARK
BM	BENCH MARK
BIT.	BITUMINOUS
B.B.	BITUMINOUS BERM
B.C.	BITUMINOUS CURB
BOS	BOTTOM OF SLOPE
BOW	BOTTOM OF WALL
BD OR BND	BOUND
BLDG.	BUILDING
CEM.	CEMENT
CL	CENTER LINE
CLF	CHAIN LINK FENCE
CONC.	CONCRETE
C.C.	CONCRETE CURB
CONT.	CONTINUOUS
CONST.	CONSTRUCTION
CO.	COUNTY
DWY.	DRIVEWAY
E.P., E.O.P.	EDGE OF PAVEMENT
EL.	ELEVATION
EXIST.	EXISTING
FLDSTN	FIELDSTONE
FDN.	FOUNDATION
GAR.	GARAGE
GRAN.	GRANITE
G.C.	GRANITE CURB
G.E.	GRANITE EDGING
GRAV.	GRAVEL
GD	GROUND
HOR.	HORIZONTAL
IP	IRON PIPE
JCT	JUNCTION
MB	MAIL BOX
MAX.	MAXIMUM
MIN.	MINIMUM
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
PVMT.	PAVEMENT
PEB	PERMANENT EASEMENT BOUNDARY
PROJ.	PROJECT
P OR PROP. LINE	PROPERTY LINE
PROP.	PROPOSED
R&D	REMOVE & DISPOSE
RET.	RETAINING
R&R	REMOVE AND RESET
RT.	RIGHT
ROW	RIGHT-OF-WAY
RD.	ROAD
SHT.	SHEET
SDWK.	SIDEWALK
SB	STONE BOUND
S.H.L.	STATE HIGHWAY LAYOUT LINE
STA	STATION
ST.	STREET
TEB	TEMPORARY EASEMENT BOUNDARY
TEMP.	TEMPORARY
TOS	TOP OF SLOPE
TOW	TOP OF WALL
TYP.	TYPICAL
VERT.	VERTICAL
VGC	VERTICAL GRANITE CURB
WCR	WHEELCHAIR RAMP

## UTILITIES

CB	CATCH BASIN
CBCL	CATCH BASIN WITH CURB INLET
CIP	CAST IRON PIPE
CL	CLASS (PIPE, CONCRETE, EXCAVATION, ETC.)
COND.	CONDUIT
CAP	CORRUGATED ALUMINUM PIPE
CMP	CORRUGATED METAL PIPE
CPP	CORRUGATED PLASTIC PIPE
CSP	CORRUGATED STEEL PIPE
CULV.	CULVERT
CI	CURB INLET
CS	CURB STOP
DI	DUCTILE IRON PIPE
EL. (OR ELEV.)	ELEVATION
FM	FORCE MAIN
F&C	FRAME AND COVER
GG	GAS GATE
GI	GUTTER INLET
HDW	HEADWALL
HYD.	HYDRANT
INV.	INVERT ELEVATION
LP	LIGHT POLE
MH	MANHOLE
PVC	POLY-VINYL-CHLORIDE PIPE
R&D	REMOVE & DISPOSE
RCP	REINFORCED CONCRETE PIPE (CLASS III UNLESS NOTED)
S	SANITARY SEWER OR SERVICE CONNECTION
SMH	SEWER MANHOLE
UP	UTILITY POLE
VCP	VITRIFIED CLAY PIPE
WG	WATER GATE

# GENERAL NOTES

- HORIZONTAL DATUM = RISPCS, NAD 1927, VERTICAL DATUM = NGVD 1929
- TOPOGRAPHY DIGITIZED/SCANNED 'SANITARY SEWERS AND APPURTENANT WORK, CONTRACT' CONTRACT DRAWINGS, 1981 (METCALF & EDDY ENGINEERS), SUPPLEMENTED BY FIELD EDIT SURVEY BY BETA GROUP, INC. JANUARY 2007.
- WETLAND FLAGS DELINEATED BY APPLIED BIO-SYSTEMS INC., WEST KINGSTON, RI. WETLANDS FLAGS SURVEYED BY GILBERT & MALONEY SURVEYORS, PROVIDENCE, RI.
- PROJECT LIMITS ARE WITHIN PROPERTY OWNED BY THE TOWN OF BURRILLVILLE, RI, MAP 191 LOTS 132, AND PORTION OF LOT 18. SEE SITE PLAN SHEET S-2. CONTRACTOR RESPONSIBLE FOR ALL PERMITS AND/OR FEES REQUIRED BY LOCAL AUTHORITIES.
- EXISTING UTILITIES HAVE BEEN PLOTTED FROM THE BEST AVAILABLE DATA AND ARE APPROXIMATE ONLY. THE CONTRACTOR MUST NOTIFY DIG SAFE PRIOR TO ANY EXCAVATION, DEMOLITION OR EXPLOSION WORK IN PUBLIC OR PRIVATE WAYS OR UTILITY COMPANY RIGHT OF WAY OR EASEMENT (PUBLIC AND PRIVATE). THE LOCATION, SIZE, AND MATERIAL OF EXISTING PIPES, DUCTS, CONDUITS AND OTHER UNDERGROUND STRUCTURES AND/OR UTILITIES SHOWN ON THESE PLANS ARE FROM THE BEST SOURCES AVAILABLE AT PRESENT AND ARE NOT WARRANTED TO BE EXACT, NOR IS IT WARRANTED THAT ALL UNDERGROUND PIPES, UTILITIES OR STRUCTURES ARE SHOWN. EXACT LOCATIONS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR.
- WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR THE RESOLUTION OF THE CONFLICT.
- THE CONTRACTOR SHALL ALTER THE MASONRY OF THE TOP SECTION OF ALL EXISTING DRAINAGE AND SANITARY STRUCTURES AS NECESSARY FOR THE CHANGES IN GRADE, AND RESET ALL WATER, AND DRAINAGE FRAMES, GRATES AND BOXES TO THE PROPOSED FINISH SURFACE GRADE. REQUIRED NEW MASONRY SHALL BE CLAY BRICK CONFORMING TO M.M.S.2., OR APPROVED ALTERNATE MATERIAL.
- THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE, CABLE TV, FIRE ALARM AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES.
- AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- THE TERM "PROPOSED" (PROP.) MEANS WORK TO BE CONSTRUCTED USING NEW MATERIALS OR, WHERE APPLICABLE, RE-USING EXISTING MATERIALS IDENTIFIED AS "REMOVE AND RESET" (R&R).
- TRENCH DEWATERING IS ANTICIPATED FOR THIS WORK AND DISCHARGE OF FINES OR SEDIMENTS IS NOT PERMITTED. SEE SOIL EROSION SEDIMENTATION CONTROL NOTES.
- WHERE EXISTING MATERIALS ARE ENCOUNTERED WHICH, IN THE OPINION OF THE OWNER/ENGINEER ARE UNSUITABLE FOR BEDDING, BACK FILLING OR OTHER INTENDED USE, SUCH MATERIALS SHALL BE REMOVED AS DIRECTED AND REPLACED WITH SUITABLE GRAVEL BORROW, CRUSHED STONE AND/OR SELECTED BORROW, AS DIRECTED BY THE OWNER/ENGINEER.
- JOINTS BETWEEN NEW BITUMINOUS CONCRETE ROADWAY PAVEMENT AND SAWCUT EXISTING PAVEMENT SHALL BE SEALED WITH BITUMEN AND BACKSANDS.
- CATCH BASIN AND MANHOLE FRAMES AND GRATES/COVERS SHALL CLEARLY ALIGN WITH THE OPENINGS IN THE PRECAST STRUCTURES AND THE GRADE OF THE ROADWAY.
- IN NO CASE, EXCEPT MAXIMUM LENGTH HIGH SIDE TRANSITIONS, SHALL ANY TRANSITION SLOPE OF ANY WHEELCHAIR RAMP EXCEED 7.5%. PROPOSED WHEELCHAIR RAMP SLOPES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO POURING OF CONCRETE, AND ADJUSTED, IF NECESSARY, AT THE DIRECTION OF THE ENGINEER.
- CONTRACTOR SHALL VERIFY EXISTING GRADE ELEVATIONS. IF ANY ADJUSTMENT IS REQUIRED DUE TO DIFFERENT EXISTING GRADES FOUND IN THE FIELD, THE CONTRACTOR SHALL NOTIFY AND SEEK THE APPROVAL OF THE ENGINEER PRIOR TO PERFORMING THE WORK.
- EXCEPT WHERE NOTED BY PROPOSED CONTOUR LINES AND/OR SPOT GRADES, ALL FINAL CONTOUR LINE ELEVATIONS SHALL BE THE SAME AS EXISTING CONTOUR LINE ELEVATIONS.
- ALL DISTURBED SOIL SHALL BE LOAMED AND SEEDED WITH A PERENNIAL CONSERVATION GRASS SEED MIX UNLESS OTHERWISE NOTED AND/OR SPECIFIED.

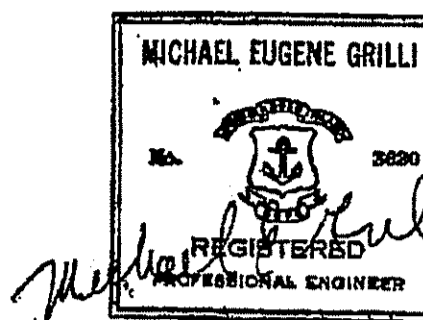
# SOIL EROSION SEDIMENTATION CONTROL NOTES

- FOR ALL PROJECTS WITH AT LEAST ONE(1) ACRE OF SOIL DISTURBANCE, R.I.D.O.T. IS REQUIRED TO DEVELOP AND ENFORCE A SITE SPECIFIC STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IN ORDER TO REMAIN IN COMPLIANCE WITH THE RIPDES GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL READ, BECOME FAMILIAR WITH, AND ADHERE TO ALL OF THE PROVISIONS, CONDITIONS, AND STIPULATIONS OF THE GENERAL PERMIT ISSUED AND THE SITE SPECIFIC SWPPP FOR THIS PROJECT. COPIES OF THESE DOCUMENTS ARE INCLUDED IN THE CS PAGES OF THE CONTRACT DOCUMENTS. ALL COSTS ASSOCIATED WITH ADHERENCE TO THE SWPPP SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION AND INCLUDED WITH THE COST FOR THE ASSOCIATED BID ITEM(S).
- NO UNDISTURBED AREAS SHALL BE CLEARED OF EXISTING VEGETATION AFTER OCTOBER 15 OF ANY CALENDAR YEAR OR DURING ANY PERIOD OF FULL OR LIMITED WINTER SHUTDOWN. ALL DISTURBED SOILS EXPOSED PRIOR TO OCTOBER 15 OF ANY CALENDAR YEAR SHALL BE SEEDED OR PROTECTED BY THAT DATE. ANY SUCH AREAS THAT DO NOT HAVE ADEQUATE VEGETATIVE STABILIZATION, AS DETERMINED BY THE RESIDENT ENGINEER OR ENVIRONMENTAL INSPECTOR, BY NOVEMBER 15 OF ANY CALENDAR YEAR, MUST BE STABILIZED THROUGH THE USE OF EROSION CONTROL MATTING OR HAY MULCH, IN ACCORDANCE WITH SPECIFICATIONS CONTAINED WITHIN THE R.I. SOIL EROSION AND SEDIMENT CONTROL HANDBOOK. IF WORK CONTINUES WITHIN ANY OF THESE AREAS DURING THE PERIOD FROM OCTOBER 15 THROUGH APRIL 15, CARE MUST BE TAKEN TO ENSURE THAT ONLY THE AREA REQUIRED FOR THAT DAY'S WORK IS EXPOSED, AND ALL ERODIBLE SOIL MUST BE REESTABLISHED WITHIN 5 WORKING DAYS. ANY WORK TO CORRECT THE PROBLEMS RESULTING FROM FAILURE TO COMPLY WITH THIS PROVISION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THERE WILL BE NO SEPARATE PAYMENT FOR THIS PROVISION. IT SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION OPERATIONS. STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN 15 DAYS OF FINAL GRADING.
- STOCKPILES OF MATERIALS SHALL NOT BE LOCATED WITHIN REGULATED WETLANDS OR BUFFER ZONE AREAS. THEY SHALL HAVE SLOPE SIDES NO GREATER THAN 30% AND STOCKPILES OF ERODIBLE MATERIAL SHALL ALSO BE SEEDING AND RINGED WITH R.I. STD. 9.1.0 TO STABILIZE.
- IF THE PLANS INCLUDE SPECIFIC AREAS FOR PLACEMENT OF CONSTRUCTION DEWATERING BASINS AND/OR EQUIPMENT AND MATERIALS STORAGE AND STOCKPILING, AND IF THE CONTRACTOR ELECTS TO UTILIZE ANY OTHER AREAS FOR THESE PURPOSES, THIS SHALL BE APPROVED BY THE ENGINEER ONLY AFTER OBTAINING ANY NECESSARY PERMITS AND/OR PERMIT MODIFICATIONS FROM THE APPROPRIATE REGULATORY AUTHORITY(IES). ANY PERMITTING REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE ACCOMPLISHED AT NO COST TO THE STATE. THE ENGINEER WILL COORDINATE SUBMISSION OF ANY REQUIRED PERMIT APPLICATION MATERIALS WITH THE R.I.D.O.T. OFFICE OF ENVIRONMENTAL PROGRAMS.
- JUTE MESH SHALL BE USED TO STABILIZE PLANTABLE SOIL AND/OR LOAM IN ALL DITCHES, ON ALL SLOPES ADJACENT TO WETLANDS AND WETLAND PERIMETERS, AND ON ALL SLOPES WITHIN WATER QUALITY BASINS. JUTE MESH IN DITCHES SHALL EXTEND TO AN ELEVATION 2 FEET ABOVE THE BOTTOM OF THE DITCH.
- SEEDING ON ALL SLOPES 3 TO 1 OR STEEPER SHALL CONSIST OF THE FOLLOWING APPLICATIONS UNLESS CHANGED IN THE CONTRACT.
  - SEEDING TYPE I
  - ADHESIVE MULCH STABILIZER
- UNVEGETATED SLOPES SHALL NOT BE UNATTENDED OR EXPOSED FOR PERIODS IN EXCESS OF 2 WEEKS OR THROUGH THE INACTIVE WINTER SEASON.
- PRIOR TO DRAINAGE AND UTILITY CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION (HORIZONTAL AND VERTICAL) OF ALL EXISTING PIPES AND/OR STRUCTURES WHICH ARE TO BE CONNECTED. ANY VARIATION FOUND FROM THE PLANS MUST BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO DRAINAGE AND UTILITY CONSTRUCTION. WORK CAN COMMENCE ONLY UPON THE ENGINEER'S AUTHORIZATION.
- ALL DRAINAGE AND UTILITY STRUCTURES WITHIN THE PAVED ROADWAY SHALL BE ADJUSTED TO GRADE WITH THE SURROUNDING PAVEMENT PRIOR TO THE WINTER SHUTDOWN.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL THROUGHOUT THE WORK AREA.
- CATCH BASIN RIM GRADES NOTED ON PLANS ARE DEPRESSED 0.1' LOWER THAN THE GUTTER GRADE. RIM ELEVATIONS SHOWN ARE FINAL GRADES. THE CONTRACTOR SHALL PLACE FRAMES AND GRATES 0.1' BELOW THE GRADE CONSTRUCTED IN THIS CONTRACT OR AS DIRECTED BY THE ENGINEER.
- PROVISIONS FOR CLEARING TO ACCESS OUTFALLS DURING THE CLEANING AND FLUSHING OF THE CLOSED DRAINAGE SYSTEM SHALL BE KEPT TO A MINIMUM.
  - ANY VEGETATIVE CLEARING SHALL BE LIMITED TO BRUSH AND TREES LESS THAN 3" DIAMETER.
  - NO HEAVY EQUIPMENT MAY ENCROACH UPON VEGETATED PERIMETER OR RIVERBANK WETLANDS AS WELL AS BIOLOGICAL WETLANDS.
- THE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL DEVICES FOR THE OUTLET PROTECTION PRIOR TO CLEANING AND FLUSHING STORM WATER DRAINAGE. EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL ALL FLUSHED SEDIMENTS ARE REMOVED. AT ALL OUTFALL LOCATIONS WHERE PIPES ARE TO BE CLEANED AND FLUSHED, OUTLET PROTECTION (R.I. STD. 9.1.0 OR 9.3.0) SHALL BE INSTALLED TO TRAP SEDIMENTS. THESE SEDIMENTS SHALL THEN BE REMOVED AND DISPOSED OF LEGALLY BEFORE THE OUTLET PROTECTION DEVICES ARE REMOVED. IF OUTLET PROTECTION AT THE OUTFALL IS NOT FEASIBLE, THEN THE OUTLET PIPE OF THE LAST DRAINAGE STRUCTURE TO BE CLEANED SHALL BE PLUGGED TO CAPTURE ALL MATERIALS FLUSHED FROM PIPES. AFTER THE MATERIALS ARE REMOVED FROM THE DRAINAGE STRUCTURE, THE OUTLET MAY BE UNPLUGGED TO RESUME NORMAL FUNCTIONING.
- R.I. STD. 9.8.0 BALED HAY INLET PROTECTION SHALL BE INSTALLED AT ALL CATCH BASINS AND INLETS WHENEVER SUBBASE IS EXPOSED, AND SHALL REMAIN IN PLACE UNTIL THE ADJUTING GROUND SURFACES ARE STABILIZED.
- WHERE BALED HAY INLET PROTECTION AND SILT FENCES ARE USED AT CATCH BASINS, THEY SHALL BE REMOVED AT THE END OF THE PROJECT OR AS DIRECTED BY THE ENGINEER IN ORDER TO PREVENT CLOGGING OF THE INLET.
- DETENTION AND RETENTION BASINS MAY BE ROUGH GRADED AND STABILIZED WITH VEGETATION AND/OR OTHER EROSION CONTROL MEASURES AS REQUIRED BY THE ENGINEER PRIOR TO USE AS TEMPORARY SEDIMENTATION BASINS DURING PROJECT CONSTRUCTION. FINAL BASIN CONSTRUCTION SHALL NOT COMMENCE UNTIL ALL SOURCES OF SEDIMENTATION HAVE BEEN ELIMINATED, FINAL ROADSIDE VEGETATION IS ESTABLISHED AND USE OF TEMPORARY BASINS IS NO LONGER REQUIRED AS DIRECTED BY THE ENGINEER. ANY ISSUES RELATING TO EROSION AND/OR SEDIMENT TRANSPORT INTO WETLAND AREAS RESULTING FROM SUCH USE OF SEDIMENTATION BASINS DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ANY CORRECTIVE ACTION REQUIRED TO RESOLVE SUCH ISSUES SHALL BE COMPLETED BY THE CONTRACTOR.
- THE TOE OF ANY FILL SLOPE IS TO REMAIN AT LEAST 1' INSIDE OF ALL EROSION CONTROLS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR COVER ANY PORTION OF THE EROSION CONTROL MEASURES WITH MATERIAL. ANY MATERIAL THAT IS PLACED ON ANY EROSION CONTROLS BY THE CONTRACTOR, OR ANY AGENT OF THE CONTRACTOR, SHALL BE IMMEDIATELY REMOVED BY THE CONTRACTOR, AND ANY NECESSARY REPAIRS TO THE EROSION CONTROLS ACCOMPLISHED, AT NO COST TO THE STATE.
- PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES, EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED AT THOSE AREAS INDICATED ON THE PLANS. CLEARING MAY OCCUR PRIOR TO INSTALLATION OF SUCH CONTROLS, HOWEVER NO GRUBBING, GRADING, FILLING, OR OTHER SOIL DISTURBANCE SHALL OCCUR PRIOR TO INSTALLATION. THE LIMITS OF CLEARING AND SURFACE DISTURBANCE MUST BE STRICTLY ADHERED TO IN ALL AREAS.
- ALL HAY BALES, SILT FENCE OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS IS ESTABLISHED. IF NEEDED, TEMPORARY SEEDING CAN HELP TO MINIMIZE EROSION. TEMPORARY SEED WILL CONFORM TO R.I.D.O.T. STANDARD TEMPORARY SEED MIX.
- THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR AND HE SHALL DO SO AT NO ADDITIONAL EXPENSE TO THE STATE.
- THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE SPECIFIED IN SUBSECTION L.02.03 OF THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
- ADDITIONAL EROSION CONTROLS, NOT SHOWN ON THESE PLANS, SHALL BE INSTALLED AS CONDITIONS WARRANT, OR AS DIRECTED BY THE RESIDENT ENGINEER. THESE ADDITIONAL ITEMS WILL BE PAID AT THE UNIT PRICE FOR THAT BID ITEM.

Engineered by:  
**BETA Group, Inc.**  
 Engineers • Scientists • Planners

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 Lincoln, RI 02865  
 401.333.2382  
 email: BETA@BETA-inc.com

P.E. Stamp:



Subconsultant:

Project:

**Eagle Peak  
 Ejector Station  
 Improvements**

Burrillville Sewer Commission

Title:

**Legend-Abbrev.  
 General Notes**

Revisions:

No.	Description	Date

File: G-1 Leg-Abb-GenNotes.dwg

Drawn By: JPS

Designed By: JPS

Checked By: WS

Job No: 3363

Date: August 2008

North Arrow:

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATE: APR 15 2009 FILE # 07-0057  
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 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Charles A. Horbert*

Scale:

None

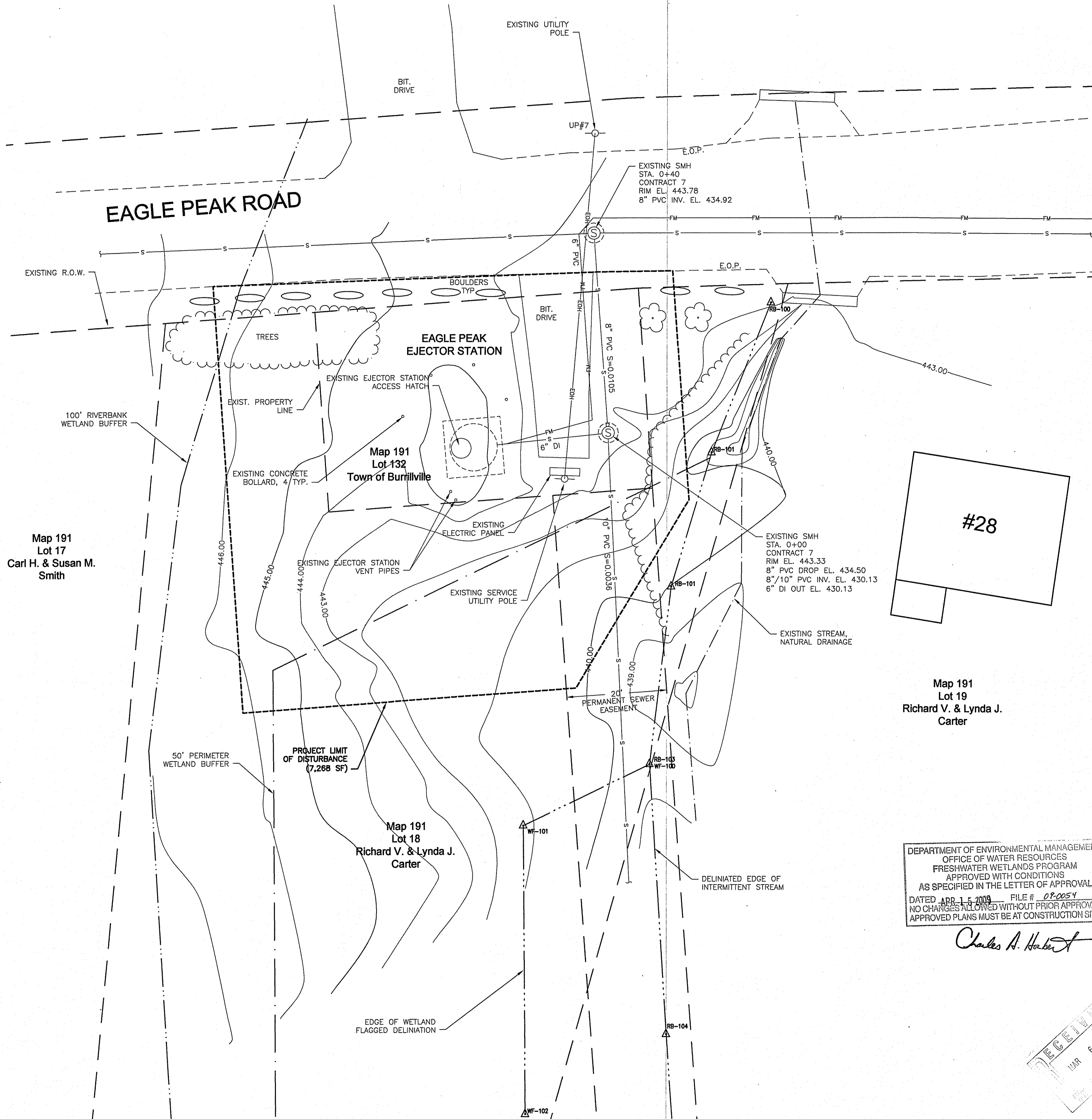
Sheet No.:

Sheet 2 of 7

**G-1**

**GENERAL NOTES**

- HORIZONTAL DATUM = RISPCS, NAD 1927, VERTICAL DATUM = NGVD 1929
- TOPOGRAPHY DIGITIZED/SCANNED 'SANITARY SEWERS AND APPURTENANT WORK, CONTRACT 7' CONTRACT DRAWINGS, 1981 (METCALF & EDDY ENGINEERS), SUPPLEMENTED BY FIELD EDIT SURVEY BY BETA GROUP, INC. APRIL, 2008.
- WETLAND FLAGS DELINEATED BY APPLIED BIO-SYSTEMS INC., WEST KINGSTON, RI. WETLANDS FLAGS SURVEYED BY GILBERT & MALONEY SURVEYORS, PROVIDENCE, RI.
- PROJECT LIMITS IN ITS ENTIRETY ARE NOT WITHIN THE 100 YEAR FLOOD PLAIN ZONE PER FEMA FLOOD INSURANCE RATE MAPS AND RIGIS FLOOD PLAIN DATA.
- PROJECT LIMITS ARE WITHIN PROPERTY OWNED BY THE TOWN OF BURRILLVILLE, RI, MAP 191 LOTS 132, 18, ALONG EAGLE PEAK ROAD. SEE PLAN OF LAND TAKING FOR PROPERTY LIMITS FOR CONSTRUCTION OF STATION UPGRADE.
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P.E. Stamp:  
  
 MICHAEL EUGENE GRILLI  
 No. 1798  
 REGISTERED PROFESSIONAL ENGINEER

Subconsultant:  
 \_\_\_\_\_

Project:  
**Eagle Peak Ejector Station Improvements**  
 Burrillville Sewer Commission

Title:  
**Existing Conditions Site Plan**

Revisions:

No.	Description	Date

File: S-1 Existing Conditions.dwg  
 Drawn By: JPS  
 Designed By: MH  
 Checked By: WS  
 Job No: 3363 Date: August 2008

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 Charles A. Herbert

Scale:  
**GRAPHIC SCALE**  
 10 7.5 5 2.5 0 5 10 20  
 (IN FEET)  
 1 inch = 10 ft.  
 UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

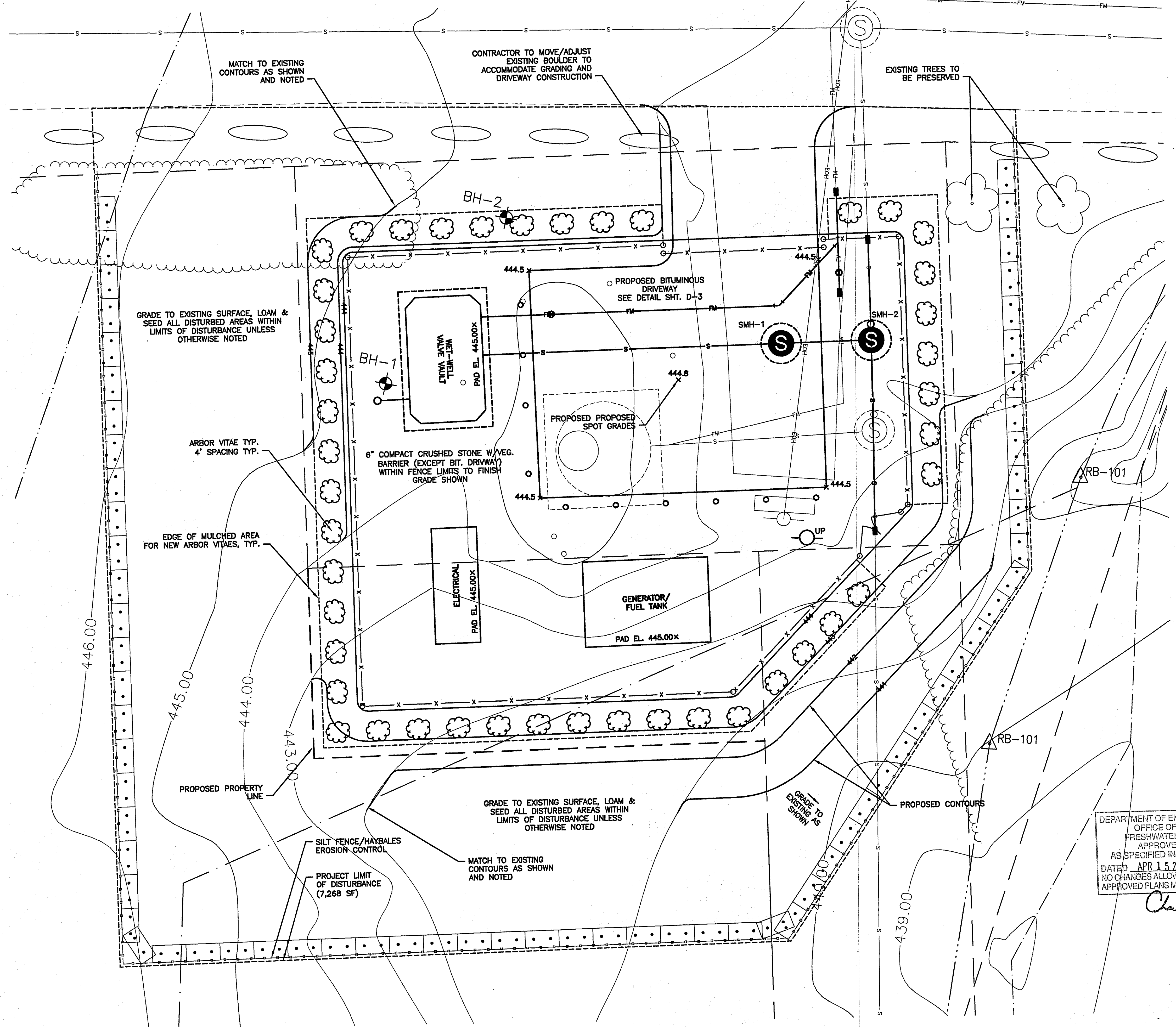
Sheet No: **S-1** Sheet 3 of 7

MICHAEL J. PAOLINO  
 No. 1798  
 PROFESSIONAL LAND SURVEYOR  
 09-06-09

WETLANDS FLAGGING SURVEYED BY  
 GILBERT & MALONEY SURVEYORS  
 PROVIDENCE, RHODE ISLAND



# EAGLE PEAK ROAD



**PROPOSED GRADING & LANDSCAPE PLAN**  
SCALE 1" = 5'

Engineered by:  
**BETA Group, Inc.**  
 Engineers-Scientists-Planners  
 6 Blackstone Valley Place  
 Lincoln, RI 02865  
 401.333.2382  
 email: BETA@BETA-inc.com

P.E. Stamp:  
  
 MICHAEL EUGENE GRILLI  
 No. 2630  
 REGISTERED PROFESSIONAL ENGINEER

Subconsultant:  
 \_\_\_\_\_

Project:  
**Eagle Peak Ejector Station Improvements**  
 Burrillville Sewer Commission

Title:  
**Proposed Grading Plan**

Revisions:

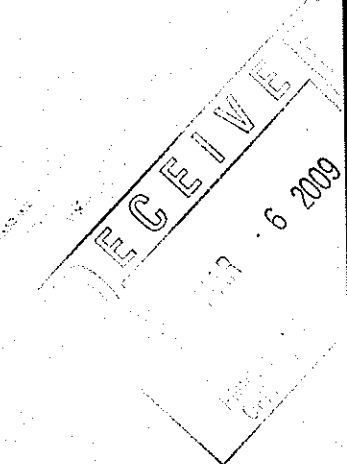
No.	Description	Date

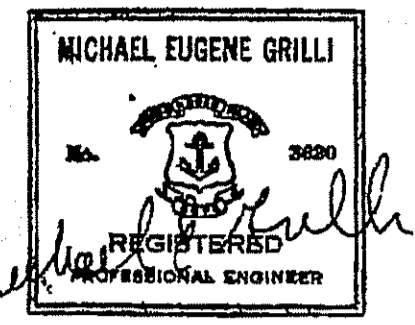
File: S-3 Proposed Grading Plan.dwg  
 Drawn By: JPS  
 Designed By: JPS  
 Checked By: WS  
 Job No: 3363 Date: August 2008

North Arrow:  
  
 DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED APR 15 2009 FILE # 09-0054  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
 Charles A. Herbert

Scale:  
**As Shown**  
 UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

Sheet No.: **S-3** Sheet 5 of 7



P.E. Stamp:  


Subconsultant:  
 \_\_\_\_\_


Project:  
**Eagle Peak Ejector Station Improvements**  
 Burrillville Sewer Commission

Title:  
**Construction Details**

Revisions:

No.	Description	Date

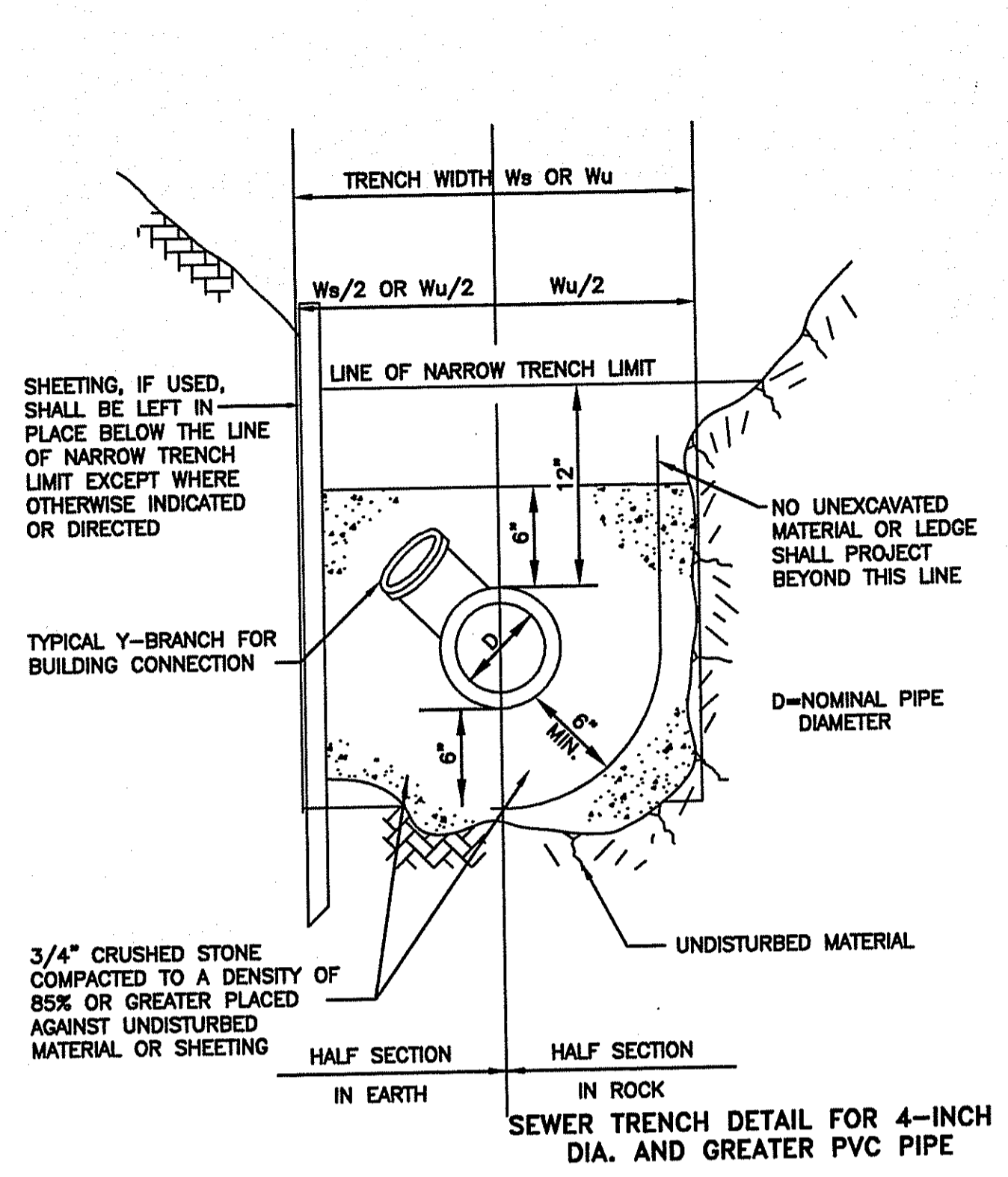
File: D-1 Construction Details-1.dwg  
 Drawn By: JPS  
 Designed By: JPS  
 Checked By: WS  
 Job No: 3363 Date: August 2008

North Arrow:  


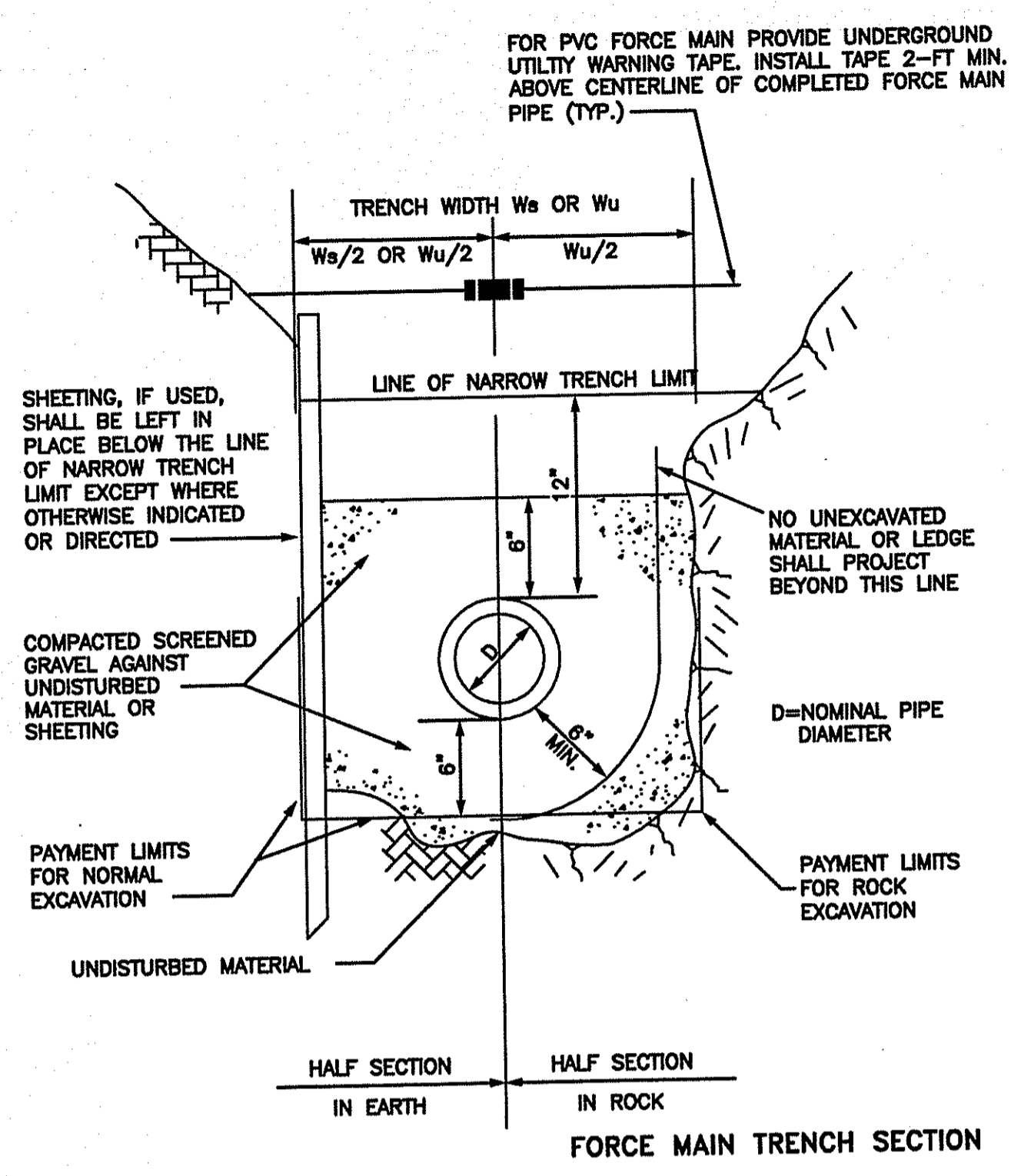
As Shown  
 DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
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 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED APR 15 2009 FILE # 09-0057  
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 Scale: \_\_\_\_\_

None  
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Sheet No: \_\_\_\_\_ Sheet 6 of 7  
**D-1**



**SEWER TRENCH DETAIL FOR 4-INCH DIA. & GREATER PVC PIPE**  
 NOT TO SCALE

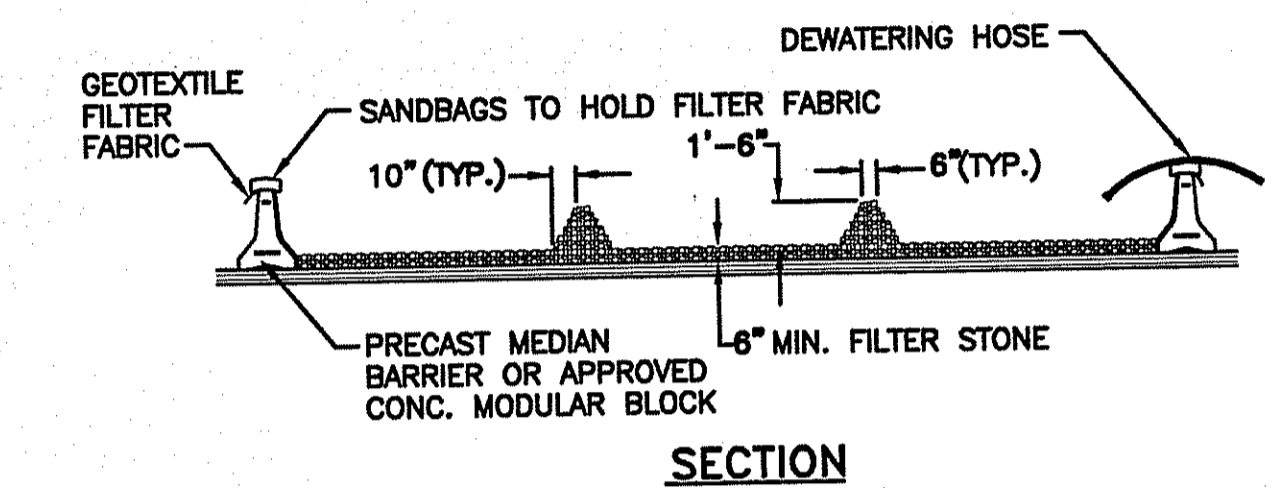
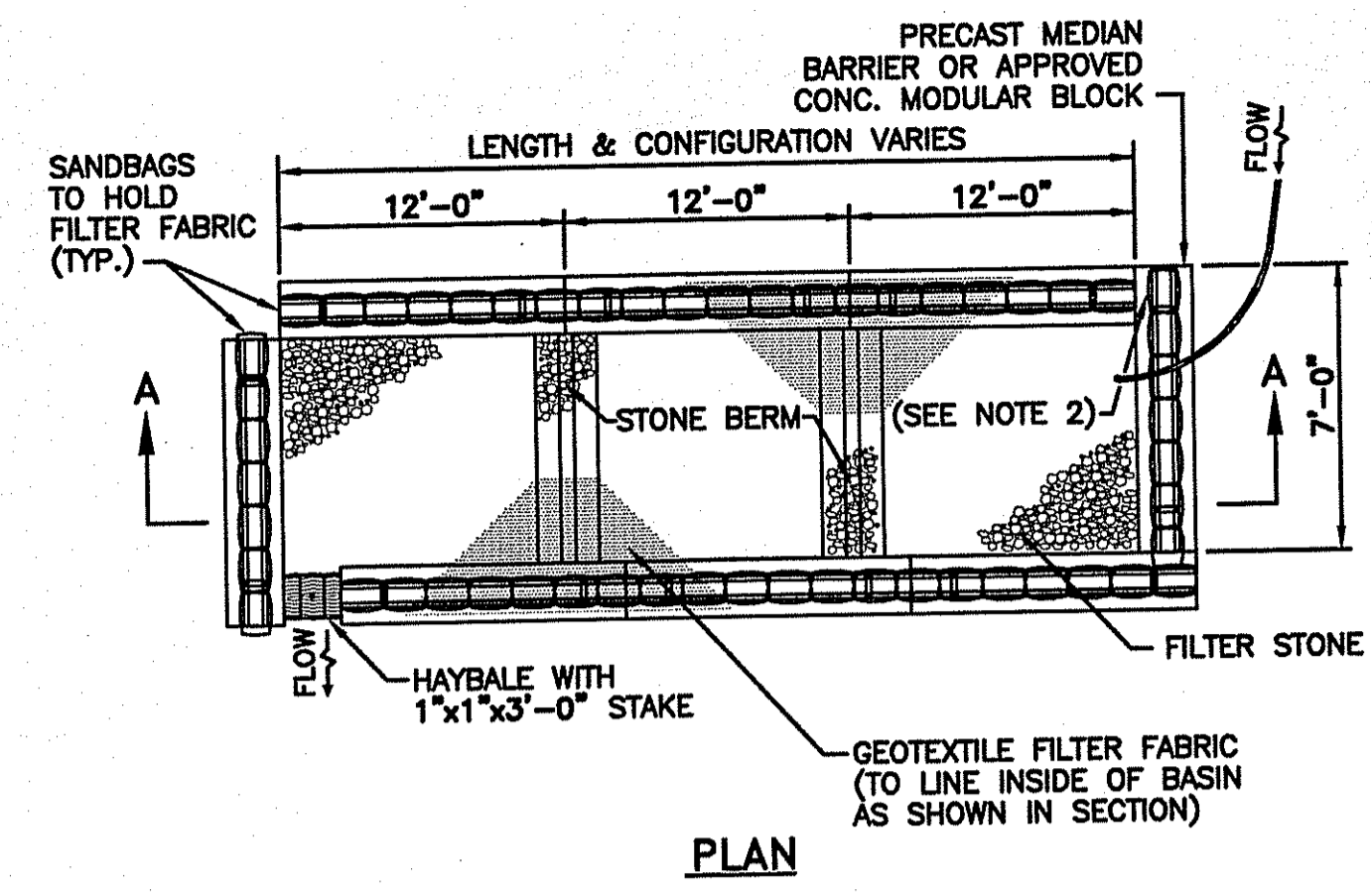


**TYPICAL FORCE MAIN TRENCH DETAIL**  
 NOT TO SCALE

TRENCH WIDTH Ws OR Wu

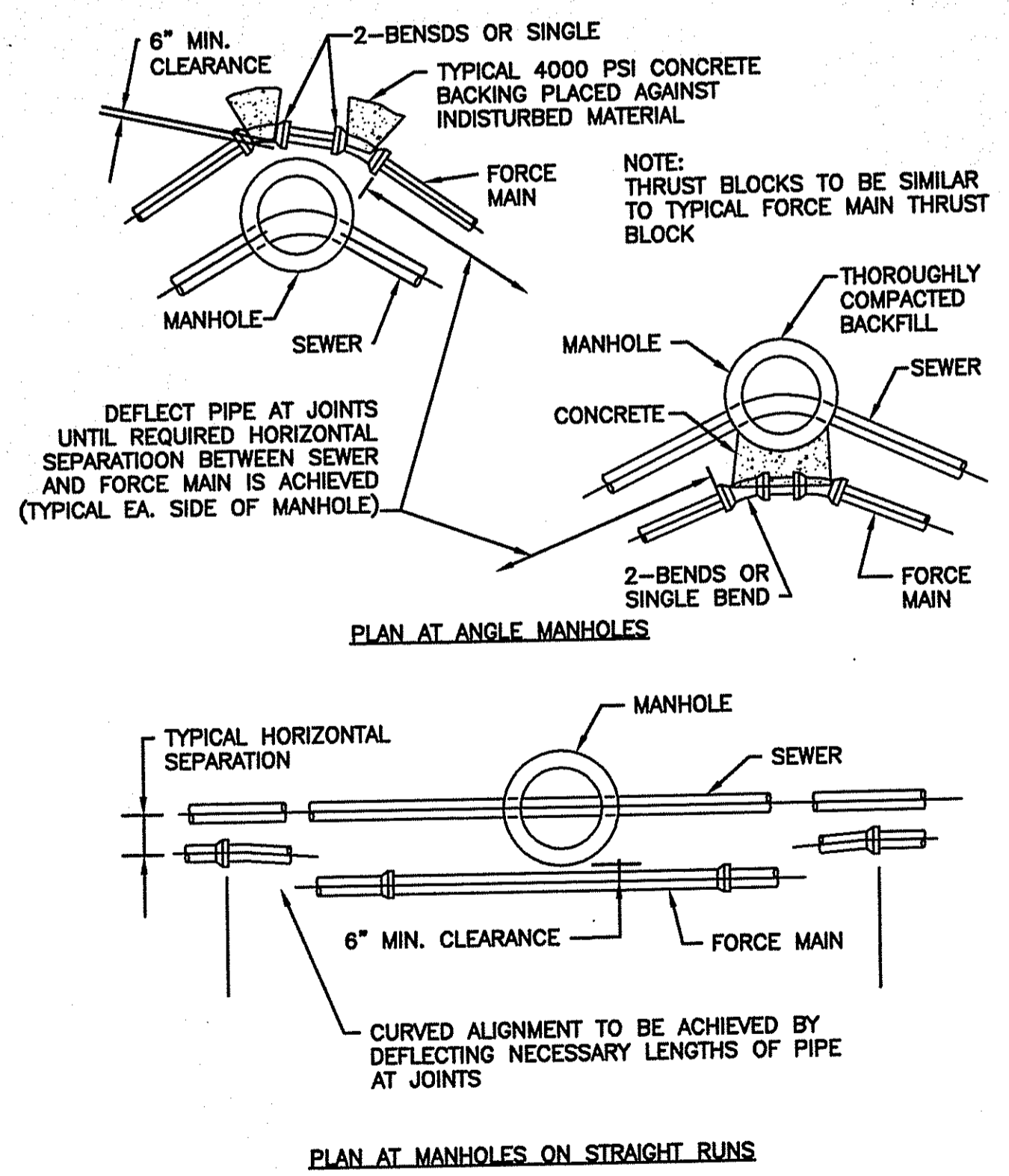
DIAMETER OF PIPE D	Wu UNSHEETED	Ws SHEETED
12" AND SMALLER	3'-0"	4'-2"
15"	3'-2"	4'-4"
18"	3'-6"	4'-8"
21"	3'-10"	5'-0"
24"	4'-2"	5'-4"
27"	4'-6"	5'-8"
30"	4'-10"	6'-0"
36"	5'-6"	6'-8"
42"	6'-2"	7'-4"
48"	6'-10"	8'-0"
54"	7'-6"	8'-8"
60"	8'-2"	9'-4"
72"	9'-6"	10'-8"
78"	10'-2"	11'-4"
84"	10'-10"	12'-0"

**TYPICAL TRENCH WIDTH TABLE**  
 NO SCALE

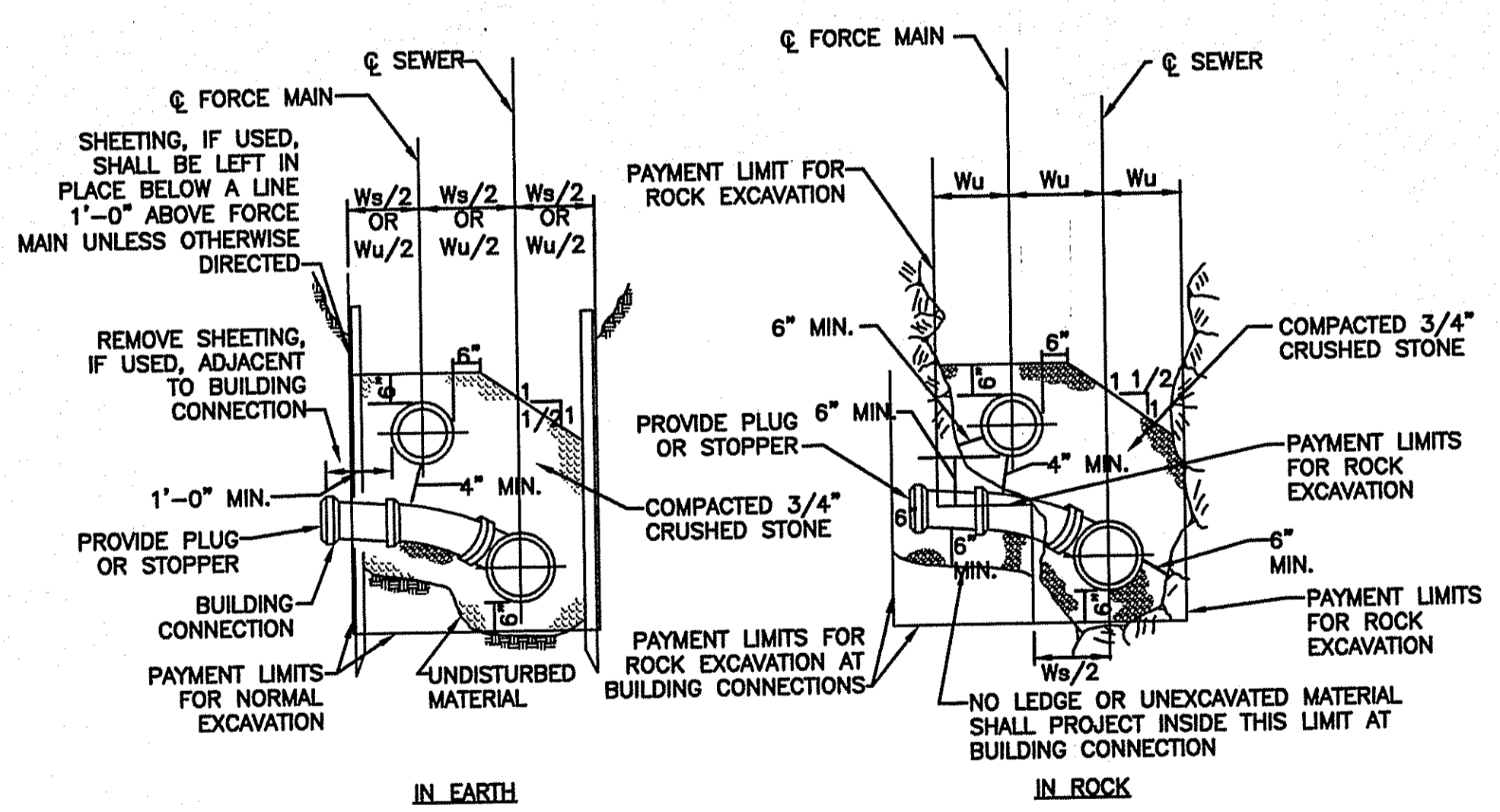


**TYPICAL DEWATERING STILLING BASIN**  
 NOT TO SCALE

NOTES:  
 1. SHALL BE IN ACCORDANCE WITH SECTION 208 OF THE R.I. STANDARD SPECIFICATIONS.  
 2. PROVIDE ADDITIONAL SAND BAGS AS REQUIRED TO FILL SPACE BETWEEN ADJACENT BARRIERS AND/OR BLOCKS

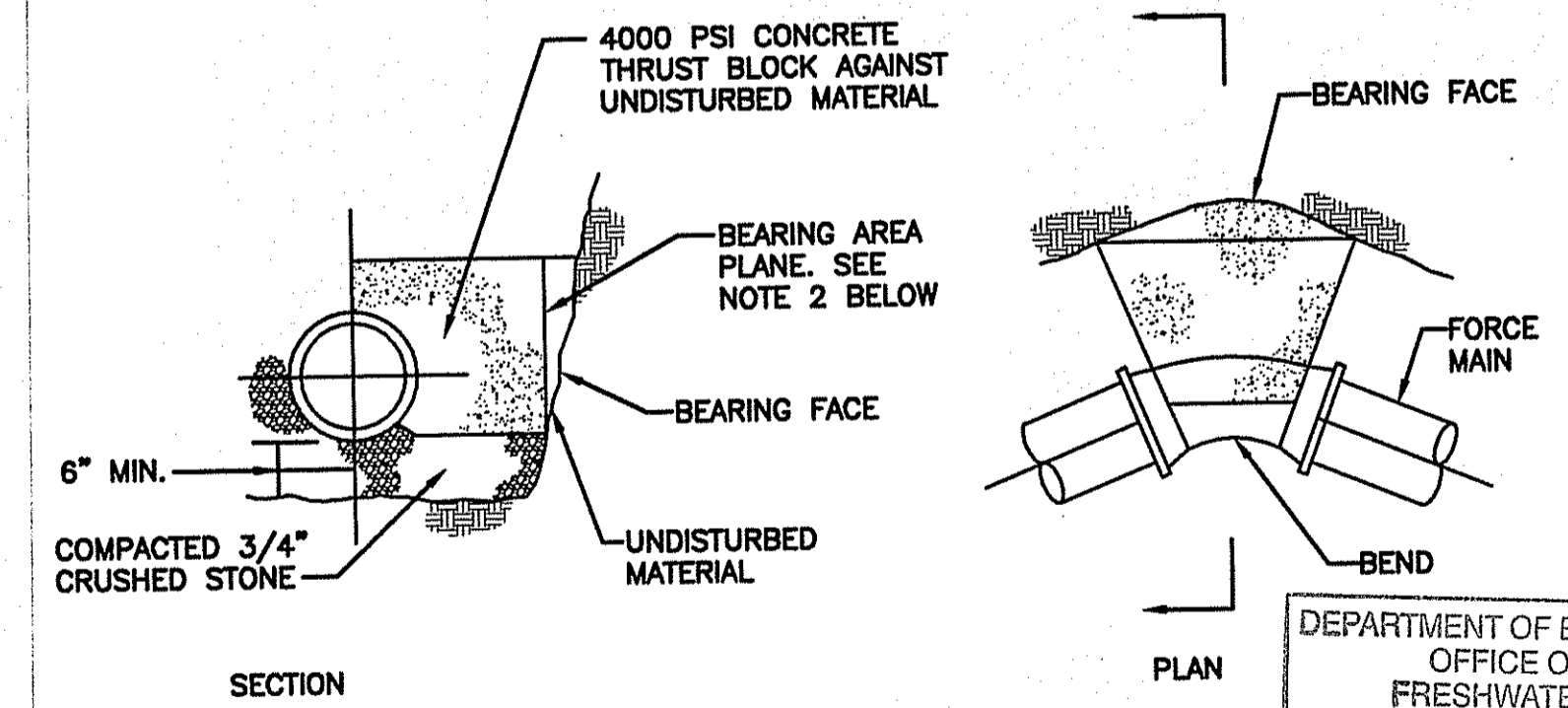


**TYPICAL ALIGNMENT AT MANHOLES FOR SEWER AND FORCE MAIN IN SAME TRENCH**  
 NOT TO SCALE



**TRENCH SECTIONS FOR SEWER & FORCE MAIN IN SAME TRENCH**  
 NOT TO SCALE

NOTES:  
 1. CONSTRUCT BUILDING CONNECTIONS TO AT LEAST 1'-0" BEYOND FORCE MAIN WHEN THE CONNECTION IS NOT TO BE EXTENDED UNDER THIS CONTRACT.  
 2. EXCAVATION PAYMENT LIMITS SHALL BE EQUAL TO 1 1/2 TIMES THE LIMITS DESIGNATED IN THE TRENCH WIDTH TABLE FOR THE SMALLEST DIAMETER PIPE INSTALLED.



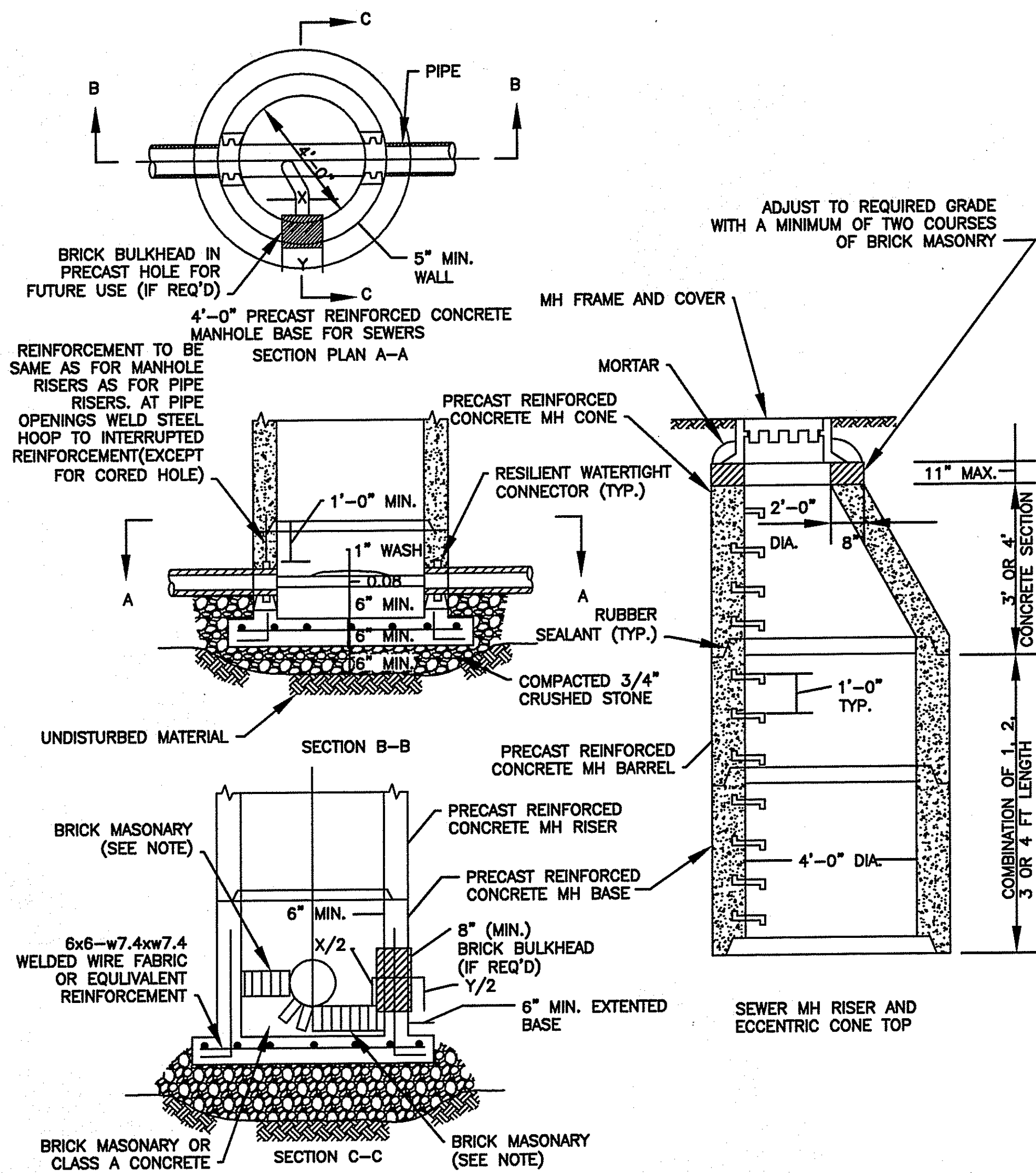
**FORCE MAIN THRUST BLOCK PIPE RESTRAINT DETAIL**  
 NOT TO SCALE

NOTES:  
 1. ALL FORCE MAIN BENDS SHALL BE BACKED UP WITH A CONCRETE THRUST BLOCK BETWEEN THE PIPE AND UNDISTURBED MATERIAL.  
 2. BEARING AREA REQUIRED ON VERTICAL PLANE 90 DEG. TO RADIUS PLANE PASSING THROUGH MIDPOINT OF BEND.

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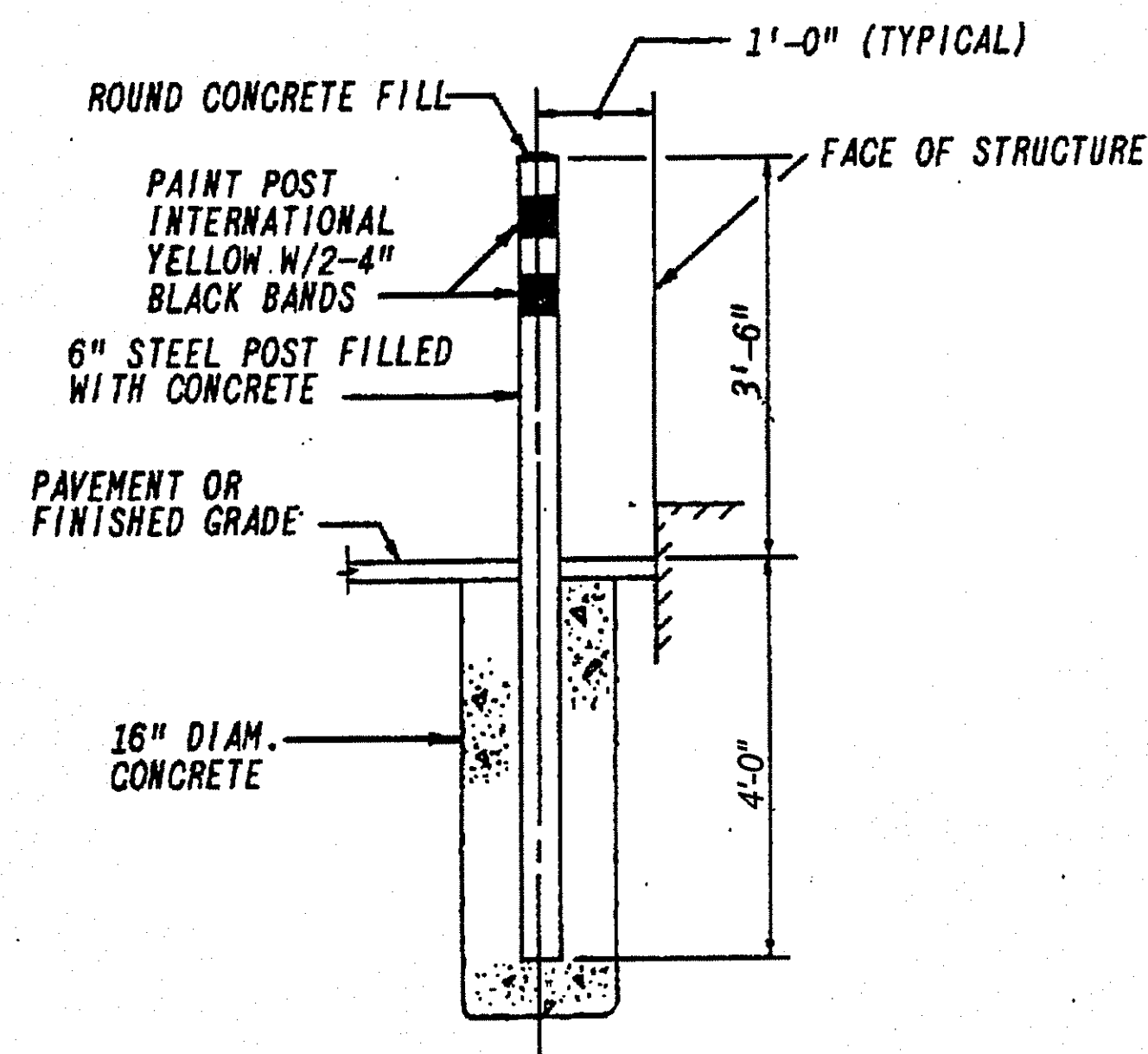
Charles A. Harber

RECEIVED  
 APR 15 2009

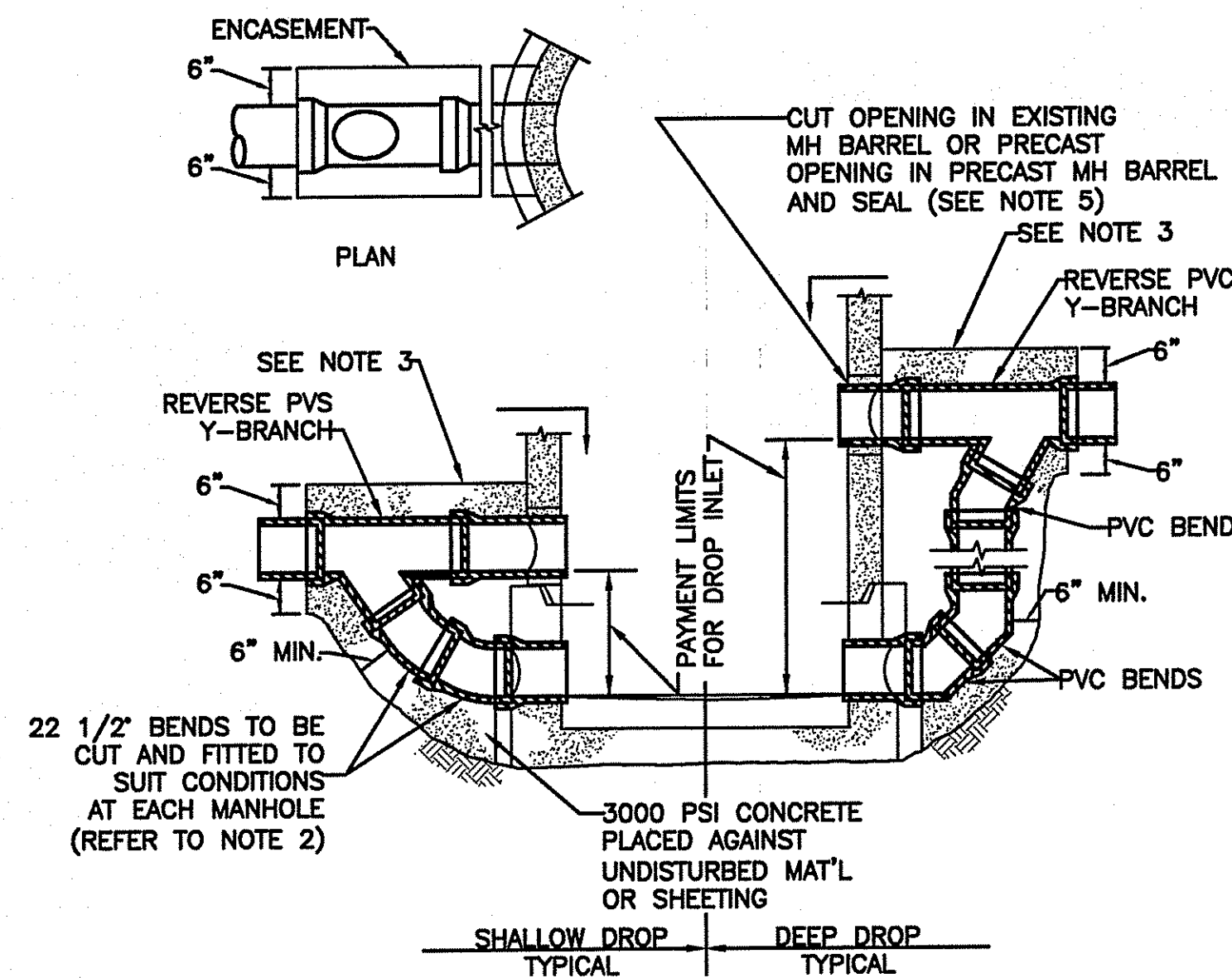


X (FUTURE, PRECAST PIPE DIA.) (IN.)	Y (HOLE DIA.) (IN.)
6	11
8	13
10	16
12	19
14	19
15	23
16	21
18	26

**TYPICAL MANHOLE FOR PVC SEWERS  
24" DIA. AND SMALLER**  
NOT TO SCALE



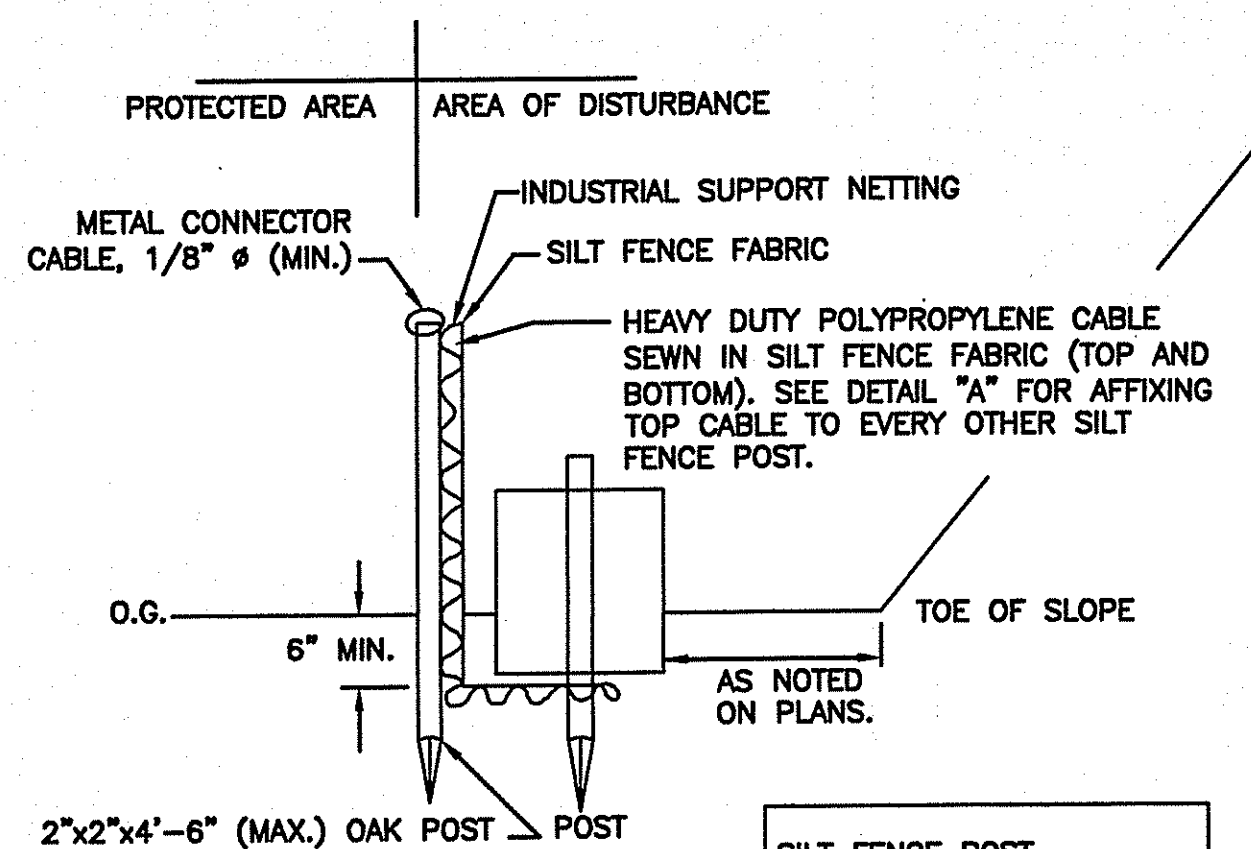
**CONCRETE BOLLARD DETAIL**  
NOT TO SCALE



**NOTES:**

1. DROP PIPE TO BE SAME DIAMETERS AS SEWER DISCHARGING INTO MANHOLE FOR SEWERS UP TO AND INCLUDING 12" SIZE.
2. DEEPER DROP MAY BE CONSTRUCTED WITH STRAIGHT PIPE BETWEEN Y-BRANCH AND BEND.
3. EXTENDED ENCASEMENT TO FIRST JOINT BEYOND EXCAVATION FOR DROP CONNECTION.
4. DIMENSIONS AND CONSTRUCTION OF DROP MANHOLE TO BE SIMILAR TO TYPICAL MANHOLE EXCEPT AS SHOWN.
5. CONNECTION OF PIPE TO MANHOLE SHALL BE AS SHOWN IN APPROPRIATE MANHOLE DETAILS.

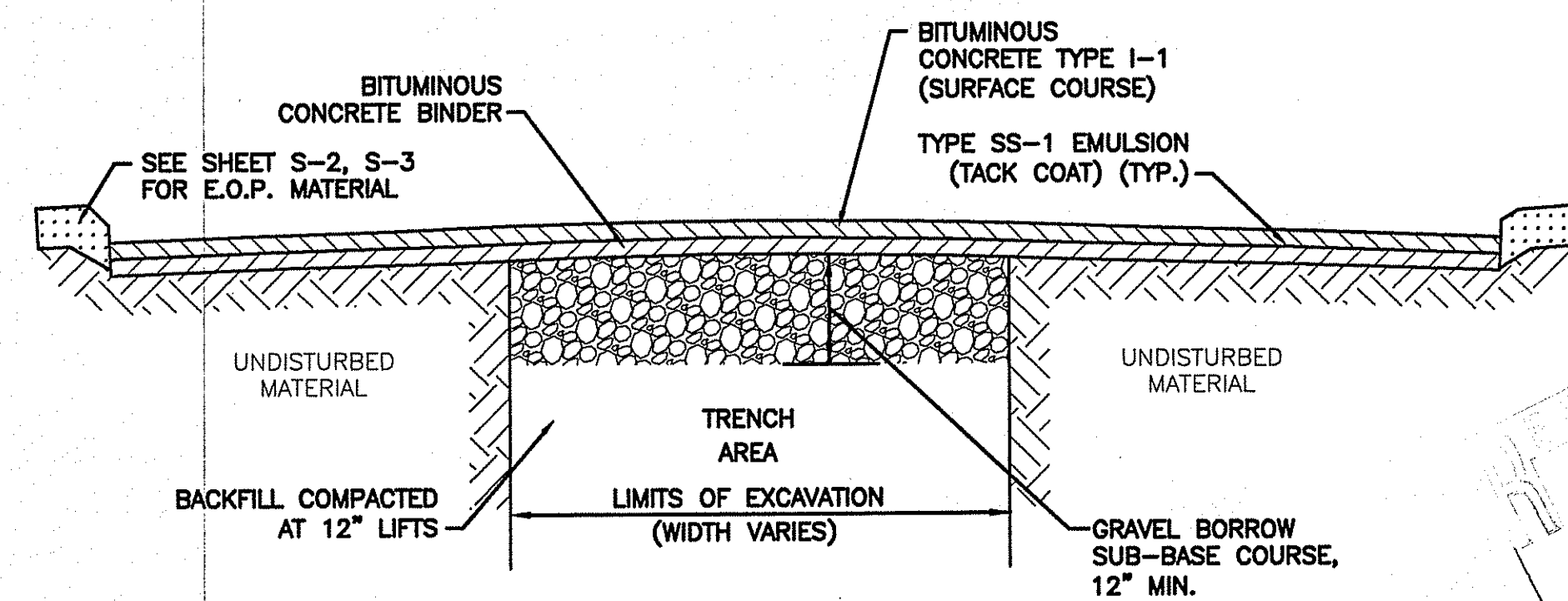
**TYPICAL OUTSIDE DROP SMH (12" OR LESS)**  
NOT TO SCALE



**NOTES:**

1. HAYBALE SHALL BE INSTALLED "TIGHT" AGAINST SILT FENCE. THOROUGHLY COMPACT EXCAVATED SOILS BACK INTO TRENCH AFTER INSTALLATION OF EROSION CONTROL DEVICES. SILT FENCE FABRIC SHALL NOT BE SLIT - POST SHALL BE DRIVEN THROUGH SILT FENCE FABRIC. 2"x2"x4'-6" (MAX.) OAK POST FOR SILT FENCE SHALL BE LOCATED ON 8'-0" (MAX.) CENTERS IN WETLAND AREAS AND LOCATED ON 4'-0" (MAX.) CENTERS IN WETLAND RAVINE, GULLY OR DROPOFF AREAS AS SHOWN ON PLANS.

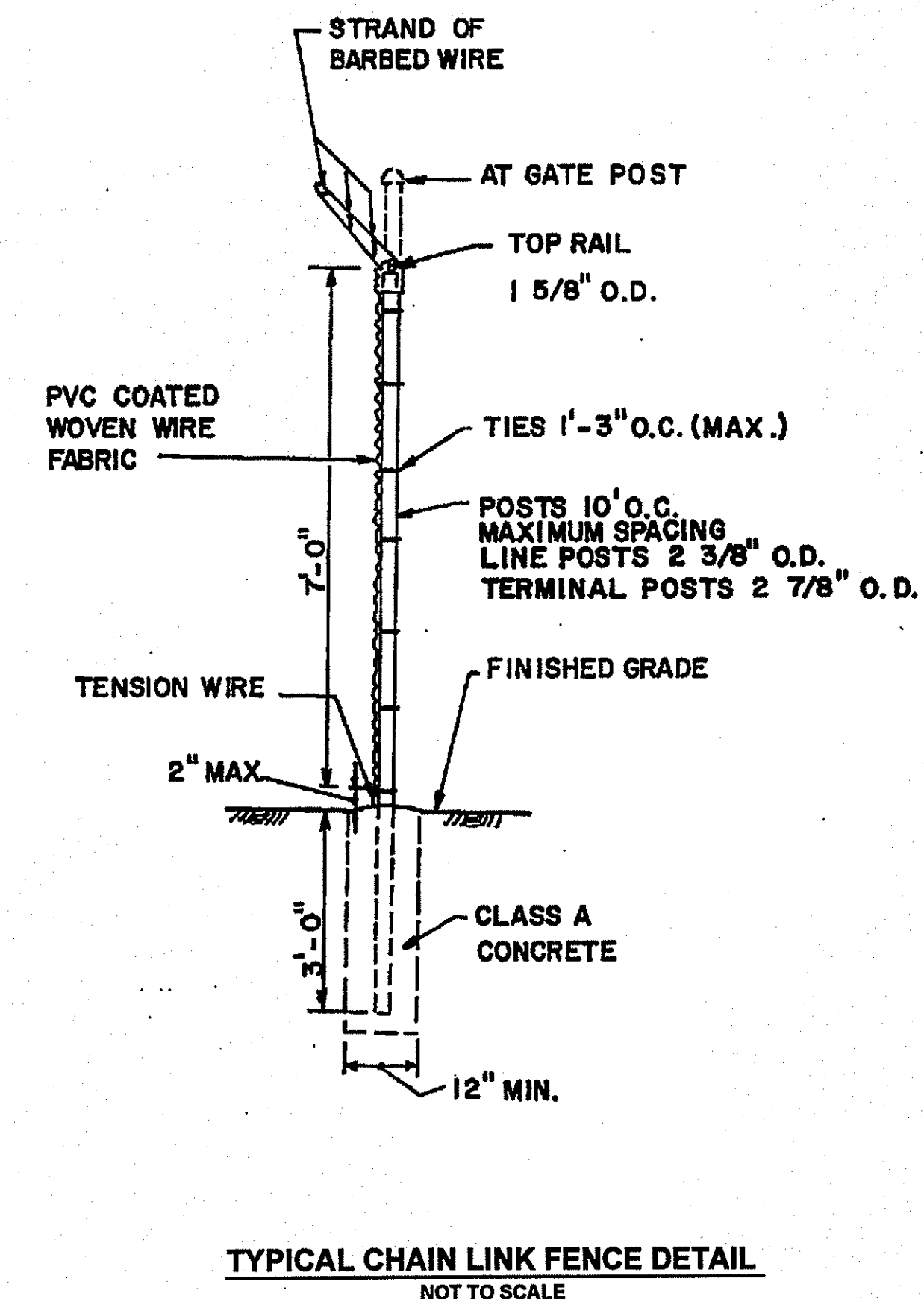
**HAY BALE WITH SILT FENCE DETAIL**  
NOT TO SCALE



**NOTE:**

1. SEE SPECIFICATION SECTION 02500 FOR COURSE THICKNESSES.
2. SLOPE PAVEMENT PER GRADING PLAN SHEET S-3

**TYPICAL PUMP STATION PAVEMENT DETAIL**  
NOT TO SCALE



**TYPICAL CHAIN LINK FENCE DETAIL**  
NOT TO SCALE

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*Charles A. Harbo*

Engineered by:  
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401.333.2382  
email: BETA@BETA-inc.com

P.E. Stamp:  
MICHAEL EUGENE GRILLI  
REGISTERED PROFESSIONAL ENGINEER

Subconsultant:

Project:  
**Eagle Peak Ejector Station Improvements**  
Burrillville Sewer Commission

Title:  
**Construction Details-2**

Revisions:

No.	Description	Date

File: D-2 Construction Details-2-Rev.dwg  
Drawn By: JPS  
Designed By: JPS  
Checked By: WS  
Job No: 3363 Date: August 2008

North Arrow:

As Shown

Scale: None

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Sheet No.: **D-2** Sheet 7 of 7