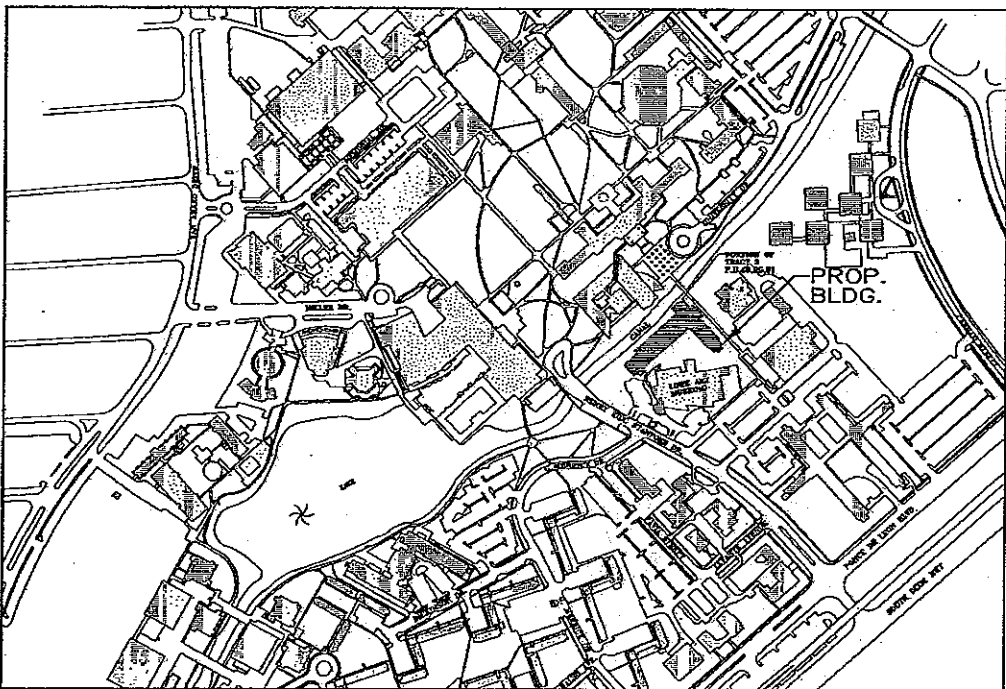


University of Miami

SCHOOL OF BUSINESS

CIVIL ENGINEERING PLANS

SECTION 30 T54S-R41E



LOCATION SKETCH

SCALE 1"=300'

LEGAL DESCRIPTION:

ALL THAT LOT, PIECE OR PARCEL OF LAND SITUATE, LYING AND BEING IN SECTION 19, TOWNSHIP 54 SOUTH, RANGE 41 EAST, CITY OF CORAL GABLES, MIAMI-DADE COUNTY, FLORIDA, BEING A PORTION OF TR. 3 OF "AMENDED PLAT PORTION OF MAIN CAMPUS UNIVERSITY OF MIAMI," ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 46 AT PAGE 81 OF THE PUBLIC RECORDS OF DADE COUNTY (NOW MIAMI-DADE COUNTY), FLORIDA, THE SAME BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS, VIZ:

COMMENCE AT THE SOUTHEAST CORNER OF TRACT "D" THE SAME AS INDICATED AS THE POINT OF TANGENCY (P.T.) INTERSECTION WITH THE NORTHEASTERLY LINE OF MILLER DRIVE (HENRY KING STANFORD DRIVE) SHOWN ON THE PLAT OF "SECOND AMENDED PLAT PORTION OF MAIN CAMPUS UNIVERSITY OF MIAMI," ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 77 AT PAGE 66 OF THE PUBLIC RECORDS OF DADE COUNTY (NOW MIAMI-DADE COUNTY), FLORIDA; THENCE N51°12'20"E FOR 113.91 FEET TO THE POINT OF BEGINNING OF THE HEREINAFTER DESCRIBED PARCEL OF LAND; FROM SAID POINT OF BEGINNING, THENCE N47°55'05"E FOR 240.75 FEET; THENCE N42°04'55"W FOR 21.40 FEET; THENCE N47°55'05"E FOR 60.92 FEET; THENCE S42°04'55"E FOR 37.89 FEET; THENCE N47°55'05"E FOR 69.96 FEET; THENCE S42°04'55"E FOR 64.02 FEET; THENCE S47°55'05"W FOR 70.03 FEET; THENCE S42°04'55"E FOR 141.99 FEET; THENCE S47°55'05"W FOR 60.80 FEET; THENCE N42°04'55"W FOR 141.49 FEET; THENCE S47°55'05"W FOR 240.87 FEET; THENCE N42°04'55"W FOR 81.01 FEET TO THE POINT OF BEGINNING.



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LEGEND

□	CABLE TV BOX	+	REDUCER
■	CATCH BASIN	+	TEE
⊕	CENTER LINE	+	CROSS
⊖	CLEAN OUT	+	PROP. FIRE HYDRANT
⊙	CONC POWER POLE	+	45° BENDS
⊙	EXISTING FIRE HYDRANT	+	90° BENDS
⊙	FLOOD LIGHT	+	METER (WATER)
⊙	GUY WIRE	+	PALM TREE
⊙	LIGHT POLE	+	PARKING METER
⊙	MANHOLE (DRAINAGE)	+	POST
⊙	MANHOLE (ELECTRIC)	+	PULL BOX
⊙	MANHOLE (SANITARY SEWER)	+	SIGN
⊙	MANHOLE (TELEPHONE)	+	TRAFFIC FLOW
⊙	MANHOLE (UNKNOWN)	+	TREE
⊙	METER (ELECTRIC)	+	UTILITY POLE
⊙	METER (GAS)	+	VALVE (GAS)
⊙	EXIST. GRADE EL.	+	VALVE (IRRIGATION CONTROL)
⊙	PROPOSED FIRE HYDRANT	+	VALVE (UNKNOWN)
⊙	BACKFLOW PREVENTER	+	VALVE (WATER)
⊙	TAPPING SLAVE	+	VALVE COVER (WATER)
⊙		+	PROP. PLUG



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OWNER:
**UNIVERSITY OF
Miami**



REVISIONS:

PROJECT NAME:
**UNIVERSITY OF MIAMI
SCHOOL OF BUSINESS**

PROJECT ADDRESS:
1300 STANFORD DRIVE
CORAL GABLES, FL 33146
KEY PLAN

COMM. NO.: 20031.000
SCALE: AS SHOWN
DATE: AUGUST 29, 2008
DRAWN: J.E.R.A.
CHECKED: FT
CADD FILE: H:\PROJECTS\20031\CDL

DRAWING TITLE:
COVER SHEET

SHEET NO.:
C-1.0

GENERAL NOTES AND SPECIFICATIONS (NOT PART OF M-DWASD NOTES NOR APPROVAL)

GENERAL NOTES AND SPECIFICATIONS

I. APPLICABLE CODES:

A. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY OF CORAL GABLES PUBLIC WORKS DEPARTMENT, MIAMI-DADE WATER AND SEWER DEPARTMENT AND ALL OTHER APPLICABLE LOCAL, STATE AND NATIONAL CODES.

B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER AND IN STRICT COMPLIANCE WITH ALL THE REQUIREMENTS OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 OR LATEST EDITION, AND ALL STATE AND LOCAL SAFETY AND HEALTH REGULATIONS.

C. ALL ELEVATIONS SHOWN ON THE CONSTRUCTION DRAWINGS ARE BASED ON NATIONAL GEODETICAL VERTICAL DATUM OF 1929 (N.G.V.D.), UNLESS OTHERWISE NOTED.

D. EXISTING TOPOGRAPHIC AND CADASTRAL INFORMATION SHOWN ON THESE DRAWINGS ARE BASED ON THE TOPOGRAPHIC SURVEY PERFORMED BY PWS&A DATE AUGUST 24, 2005.

II. PRECONSTRUCTION RESPONSIBILITIES:

A. THE INFORMATION PROVIDED IN THESE PLANS IS TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF THE WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT ANY INVESTIGATIONS THEY DEEM NECESSARY TO VERIFY AT THEIR OWN CONSIDERATION REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED AND UPON WHICH THEIR BIDS WILL BE BASED.

B. UPON THE RECEIPT OF THE "NOTICE TO PROCEED", THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD AND ARRANGE A PRECONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, UTILITY OWNERS, THE OWNER AND THE ENGINEER OF RECORD.

C. THE CONTRACTOR SHALL CONTACT "SUNSHINE ONE-CALL OF FLORIDA" BY CALLING 1-800-432-4770 AT LEAST 48 HOURS PRIOR TO COMMENCING ANY CONSTRUCTION OR CONSTRUCTION IN ORDER TO PROVIDE FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.

D. THE CONTRACTORS SHALL COORDINATE WITH UTILITIES TO ARRANGE FOR RELOCATION AND TEMPORARY SUPPORT OF UTILITY FEATURES, ETC. AS NECESSARY TO COMPLETE THE WORK, IF APPLICABLE.

E. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ANY AND ALL EXISTING UTILITIES ON THIS PROJECT.

F. THE CONTRACTOR SHALL SECURE ALL UTILITY EASEMENTS (IF REQUIRED) TO BE SECURED PRIOR TO CONSTRUCTION.

G. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES AS SHOWN ON THE DRAWINGS WERE OBTAINED FROM THE BEST INFORMATION AVAILABLE AT THE TIME THESE PLANS WERE PREPARED BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THERE MAY BE OTHER IMPROVEMENTS, UTILITIES, ETC., WITHIN THE PROJECT AREA WHICH WERE NOT INSTALLED AND CONSTRUCTED AFTER THE PREPARATION OF THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE FACILITIES SHOWN OR FOR ANY FACILITIES NOT SHOWN. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING FACILITIES, STRUCTURES AND OTHER FEATURES (WHETHER SHOWN ON THE PLANS OR NOT) AFFECTING THE WORK.

H. IF, UPON EXCAVATION, EXISTING CONDITIONS ARE FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD SO THAT APPROPRIATE MEASURES CAN BE TAKEN TO RESOLVE THE PROBLEM.

I. ALL ROAD CROSSINGS ARE OPEN CUT UNLESS OTHERWISE NOTED ON THE DRAWINGS.

III. INSPECTION AND TESTING

A. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD AS WELL AS ANY OTHER GOVERNMENTAL AGENCIES HAVING JURISDICTION AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.

B. THE CONTRACTOR SHALL GIVE THE ENGINEER OF RECORD AT LEAST 48 HOURS ADVANCE NOTICE OF, AND THE ENGINEER OF RECORD MUST BE PRESENT TO WITNESS, THE FOLLOWING:

1. LAUNCHING TEST OF THE SEWAGE COLLECTION SYSTEM.
2. INFILTRATION/EXFILTRATION TEST OF THE SEWAGE COLLECTION SYSTEM.
3. PRESSURE TESTING OF THE WATER DISTRIBUTION SYSTEM.
4. FINAL INSPECTION OF THE WATER, SEWER, PAVING, GRADING AND DRAINAGE.

C. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL APPLICABLE REGULATORY AGENCIES FOR INSPECTION REQUIREMENTS.

IV. SHOP DRAWINGS:

A. PRIOR TO THEIR CONSTRUCTION OR INSTALLATION, SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD FOR THE FOLLOWING ITEMS: CATCH BASIN, STORM MANHOLES AND ALL OTHER DRAINAGE STRUCTURES, DRAINAGE PIPE, BALLAST ROCK, EXFILTRATION TRENCH FILTER FABRIC. IN ADDITION, SOME CITIES, COUNTIES, STATE AND/OR FEDERAL REGULATORY AGENCIES REQUIRE THEIR OWN INDIVIDUAL REVIEW AND APPROVAL. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL OTHER AGENCY SHOP DRAWING APPROVALS IF REQUIRED.

V. TEMPORARY FACILITIES:

A. TEMPORARY FACILITIES:

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES, AND ELECTRICITY, DURING CONSTRUCTION.

2. THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE ACCESS ENTRANCE TO COMMERCIAL PROPERTIES AT ALL TIMES, IF APPLICABLE.

3. THE CONTRACTOR SHALL MAINTAIN A CLEAR PATH FOR ALL SURFACE WATER DRAINAGE STRUCTURES AND DITCHES DURING ALL PHASES OF CONSTRUCTION, IF APPLICABLE.

B. TRAFFIC REGULATION:

1. THE CONTRACTOR SHALL PROVIDE ALL WARNING SIGNALS, SIGNS, LIGHTS AND FLAGPERSONS AS NECESSARY FOR THE MAINTENANCE OF TRAFFIC WITHIN PUBLIC RIGHT-OF-WAYS IN ACCORDANCE WITH THE M.D.C.D., MIAMI-DADE COUNTY PUBLIC WORKS, THE CITY OF CORAL GABLES PUBLIC WORKS DEPARTMENT AND THE UNIVERSITY OF MIAMI.

2. ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAYS OR WALKWAYS SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.

3. NO TRENCHES OR HOLES NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN DURING NIGHTTIME HOURS WITHOUT EXPRESS PERMISSION OF THE CITY OF CORAL GABLES PUBLIC WORKS DEPARTMENT AND THE UNIVERSITY OF MIAMI.

VI. PROJECT CLOSEOUT:

A. CLEANING UP:

1. DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER, AND UPON FINAL CLEAN-UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH. THE PAVED AREAS SHALL BE SWEEP BROOM CLEAN.

2. THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED, ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY HIS WORK, EQUIPMENT AND/OR EMPLOYEES TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS.

3. THE CONTRACTOR SHALL REPLACE ALL PAVING, STABILIZED EARTH, CURBS, DRIVEWAYS, SIDEWALKS, FENCES, MAILBOXES, SIGNS AND ANY OTHER IMPROVEMENTS REMOVED DURING CONSTRUCTION WITH THE SAME TYPE OF MATERIAL AND TO THE CONDITION WHICH EXISTED PRIOR TO THE BEGINNING OF OPERATIONS.

4. WHERE MATERIAL OR DEBRIS HAVE WASHED OR FLOWED INTO, OR HAVE BEEN PLACED IN WATER COURSES, DITCHES, CATCH BASINS, OR ELSEWHERE AS A RESULT OF THE CONTRACTOR'S OPERATIONS, SUCH MATERIAL OR DEBRIS SHALL BE REMOVED AND SATISFACTORILY DISPOSED OF DURING THE PROGRESS OF THE WORK, AND THE AREA LEFT IN A CLEAN AND NEAT CONDITION.

B. ALL PROPERTY MONUMENTS OR PERMANENT REVISIONS, REMOVED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED BY A STATE OF FLORIDA REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.

D. PROJECT RECORD DOCUMENTS:

1. DURING THE DAILY PROGRESS OF THE JOB, THE CONTRACTOR SHALL RECORD ON HIS SET OF CONSTRUCTION DRAWINGS THE EXACT LOCATION, LENGTH AND ELEVATION OF ANY FACILITY NOT BUILT EXACTLY ACCORDING TO PLANS.

2. UPON COMPLETION OF DRAINAGE IMPROVEMENTS AND UMBROCK BASE CONSTRUCTION (AND BEFORE PLACING ASPHALT PAVEMENT) THE CONTRACTOR SHALL FURNISH THE ENGINEER OF RECORD "AS-BUILT" PLANS FOR THESE IMPROVEMENTS, SHOWING THE LOCATIONS AND PERTINENT GRADES OF ALL DRAINAGE INSTALLATIONS AND THE FINISHED ROAD GRADES OF THE ROAD CROWN AND EDGES OF PAVEMENT AT 50 FEET INTERVALS.

3. UPON COMPLETION OF CONSTRUCTION, AND PRIOR TO FINAL PAYMENT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD ONE COMPLETE SET OF ALL "AS-BUILT" CONTRACT DRAWINGS. THESE DRAWINGS SHALL BE MARKED TO SHOW "AS-BUILT" CONSTRUCTION CHANGES AND DIMENSIONS, LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS.

4. "AS-BUILT" INFORMATION ON WATER MAINS AND GRAVITY SEWERS MUST BE PROVIDED IN ACCORDANCE WITH MDWASD STANDARD "AS-BUILT" REQUIREMENTS.

5. ALL "AS-BUILT" INFORMATION SHALL BE CERTIFIED BY A FLORIDA REGISTERED LAND SURVEYOR.

VII. EARTHWORK AND COMPACTION:

A. EARTHWORK AND COMPACTION SHALL BE PERFORMED IN ACCORDANCE WITH SECTION C3, "REQUIREMENTS FOR FILLING LAND IN UNINCORPORATED DADE COUNTY," OF THE MIAMI-DADE COUNTY PUBLIC WORKS MANUAL.

VIII. STORM DRAINAGE:

A. GENERAL:

1. CATCH BASIN GRATES AND RM ELEVATIONS AS SHOWN ON PLANS SHALL BE ADJUSTED TO CONFORM TO NEW OR EXISTING GRADES.

2. DISTANCES AND LENGTHS SHOWN ON PLANS AND PROFILE DRAWINGS ARE REFERENCED TO THE CENTER OF STRUCTURES.

3. ALL STORM DRAINAGE MATERIALS AND INSTALLATION SHALL CONFORM TO THE APPLICABLE MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT SPECIFICATIONS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:

SECTION	TITLE
310	EXCAVATION, TRENCHING AND BACKFILLING FOR PIPE STRUCTURES
320	DRAINAGE PIPE
340	STORM SEWER MANHOLES
350	CATCH BASINS
355	INLETS
360	SEEPAGE DRAIN (FRENCH DRAIN)

B. ALL EXFILTRATION TRENCH SHALL BE AS PER STANDARD DETAIL SD 1.1 OF THE MIAMI-DADE COUNTY PUBLIC WORKS MANUAL, AND INSTALLED AT THE WIDTH, DEPTH AND ELEVATION SHOWN ON THE APPROVED CROSS SECTION DETAIL. KNOW THE PLANS ANY CONFLICT WITH EXISTING OR PROPOSED UTILITIES SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER. ANY IMPERMEABLE MATERIAL ENCOUNTERED IN THE EXCAVATION FOR THE EXFILTRATION TRENCH SHALL BE REMOVED AS DIRECTED BY THE ENGINEER.

C. ALL DRAINAGE CATCH BASINS AND STRUCTURES SHALL BE PRECAST CONCRETE AS MANUFACTURED BY U.S. PRECAST CORPORATION OR APPROVED EQUAL.

D. THE TRENCH FILTER FABRIC SHALL BE SELECTED FROM THE LIST OF MANUFACTURERS AND FABRIC TYPES APPROVED BY THE MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT. IT SHALL BE USED TO WRAP ALL SIDES AND TOP OF THE EXFILTRATION TRENCH. THE TOP SECTION OF THE MATERIAL SHALL BE LAPPED A MINIMUM OF 12 INCHES AND THE CONTRACTOR SHALL TAKE EXTREME CARE IN BACKFILLING TO AVOID SANDING OF THE FABRIC.

E. PERFORATED PIPE SHALL TERMINATE 4'-0" FROM THE DRAINAGE STRUCTURE. THE REMAINING 4'-0" SHALL BE NON-PERFORATED PIPE.

F. PROVIDE A MINIMUM PROTECTIVE COVER OF 24 INCHES OVER STORM SEWER AND AVOID UNNECESSARY CROSSING BY HEAVY CONSTRUCTION VEHICLES DURING CONSTRUCTION.

G. THE CONTRACTOR SHALL PROTECT COMPLETED DRAINAGE STRUCTURES AND EXFILTRATION SYSTEM CONTAMINATION OF SILT AND CONSTRUCTION DEBRIS, PLACE PLYWOOD OR FILTER FABRIC BETWEEN THE FRAME AND INLET GRATE UNTIL CONSTRUCTION OPERATIONS ARE FINISHED.

IX. PAVING:

A. GENERAL:

1. ALL UNDERGROUND UTILITIES SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF UMBROCK BASE.

2. ALL EXISTING PAVEMENT, CUT OR DAMAGED BY CONSTRUCTION SHALL BE PROPERLY RESTORED AT THE CONTRACTOR'S EXPENSE.

3. ALL ROAD CROSSINGS ARE OPEN CUT UNLESS OTHERWISE NOTED ON THE DRAWINGS.

4. WHERE ANY PROPOSED PAVEMENT IS TO BE CONNECTED TO EXISTING PAVEMENT, THE EXISTING EDGE OF PAVEMENT SHALL BE SAW CUT.

5. PAVEMENT REPAIRS SHALL BE AS PER STANDARD DETAIL R 21.1 OF THE MIAMI-DADE COUNTY PUBLIC WORKS MANUAL.

B. MATERIALS AND INSTALLATION:

1. ALL WORK WITHIN CITY OF CORAL GABLES RIGHT-OF-WAYS SHALL BE IN ACCORDANCE WITH CITY OF CORAL GABLES PUBLIC WORKS DEPARTMENT SPECIFICATIONS.

2. SUBGRADE FOR ROADWAY SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DENSITY (ASTM D 1557-74), LSR 40.

3. BASE COURSE MATERIAL FOR PAVED AREAS SHALL BE A MINIMUM THICKNESS OF 8" PLACED ON A SINGLE LAYER FOR STREETS.

4. BASE COURSE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS PER ASTM D 1557-74, LSR 100.

C. TESTING:

1. DENSITY TESTS SHALL BE TAKEN BY AN INDEPENDENT TESTING LABORATORY, CERTIFIED BY THE STATE OF FLORIDA, WHERE DIRECTED BY THE MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT AND INSPECTOR, CITY OF CORAL GABLES INSPECTOR OR UNIVERSITY OF MIAMI PERSONNEL.

X. WATER DISTRIBUTION SYSTEM:

A. GENERAL:

1. ALL MATERIALS, INSTALLATION AND TESTING UNDER THIS PROJECT SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE MIAMI-DADE WATER AND SEWER DEPARTMENT (MDWASD) AND SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS AVAILABLE AND ON FILE WITH THE DEPARTMENT.

B. SEPARATION OF WATER AND SEWER MAINS:

1. WATER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED SEWER MAIN. IF THIS IS NOT POSSIBLE, THE WATER MAIN SHALL BE PLACED IN A SEPARATE TRENCH WITH THE BOTTOM ELEVATION BEING 18" HIGHER THAN THE TOP ELEVATION OF THE SEWER PIPE.

2. A VERTICAL DISTANCE OF AT LEAST 18 INCHES SHALL BE MAINTAINED WHERE A SEWER PIPE CROSSES UNDER A WATER MAIN. IF THIS IS NOT POSSIBLE, THEN THE SEWER PIPE MUST BE OF WATER MAIN QUALITY (D.I.P.) WITH 20 FOOT LENGTHS OF PIPE CENTERING ON THE POINT OF CROSSING.

3. IF A CROSSING EXISTS WHERE THE SEWER IS LAID ABOVE A WATER MAIN IS UNAVOIDABLE, THEN THE ABOVE MENTIONED PRECAUTIONS SHALL BE OBSERVED REGARDLESS OF THE DISTANCE OF VERTICAL SEPARATION BETWEEN THE WATER AND SEWER MAINS.

4. WHERE IT IS NECESSARY TO DEFLECT PIPE EITHER HORIZONTALLY OR VERTICALLY, PIPE JOINT OPENINGS SHALL NOT EXCEED 50% OF THAT RECOMMENDED BY THE PIPE MANUFACTURER.

C. MATERIALS, INSTALLATION AND TESTING:

1. FOLLOW MDWASD CONSTRUCTION SPECIFICATIONS FOR DRAINAGE WATER MAINS, DATED AUGUST 1999.

2. IN ADDITION, SEE MDWASD NOTES ON THIS SHEET.

XI. SANITARY SEWER COLLECTION SYSTEM:

A. GENERAL:

1. ALL MATERIALS AND LABOR UNDER THIS PROJECT SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE MIAMI-DADE WATER AND SEWER AUTHORITY DEPARTMENT AND SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS AVAILABLE AND ON FILE WITH THE DEPARTMENT.

2. MANHOLE RM ELEVATIONS AS SHOWN ON PLANS SHALL BE ADJUSTED TO CONFORM TO NEW OR EXISTING GRADES.

3. DISTANCES AND LENGTHS SHOWN ON PLANS AND PROFILE DRAWINGS ARE REFERENCED TO THE CENTER OF STRUCTURES.

B. MATERIALS, INSTALLATION AND TESTING:

1. FOLLOW MDWASD SPECIFICATIONS FOR GRAVITY SANITARY SEWER SYSTEMS USING POLYVINYL CHLORIDE (PVC) PIPE AND FITTINGS.

2. FOLLOW MDWASD SPECIFICATIONS FOR SANITARY FORCE MAIN SYSTEMS USING DUCTILE IRON PIPE (DIP) AND FITTINGS.

MDWASD WATER + SEWER NOTES

WATER AND SEWER CONSTRUCTION G.S. 0.5

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND EASEMENTS FROM ALL APPLICABLE AGENCIES PRIOR TO CONSTRUCTION.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND EASEMENTS FROM ALL APPLICABLE AGENCIES PRIOR TO CONSTRUCTION.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND EASEMENTS FROM ALL APPLICABLE AGENCIES PRIOR TO CONSTRUCTION.

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Interior Design-Landscape Architecture
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**MICHAEL GRAVES
ARCHITECT**

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OWNER:

**UNIVERSITY OF
Miami**

PLANNING & DESIGN DIVISION
1000 N. W. 10th Ave., Suite 1000
Miami, Florida 33136

DATE: 8/10/00

PROJECT: UNIVERSITY OF MIAMI
SCHOOL OF BUSINESS

PERMIT SET

REVISIONS:

PROJECT NAME:

UNIVERSITY OF MIAMI
SCHOOL OF BUSINESS

PROJECT ADDRESS:

1000 STANFORD DRIVE
CORAL GABLES, FL 33146

KEY PLAN

CONTRACT NO. 28031.000

SCALE: 1"=30'

DATE: AUGUST 29, 2000

DRAWN: JEA/PA

CHECKED: FT

CADD FILE: H:\PROJECTS\28031\CONV

DRAWING TITLE:

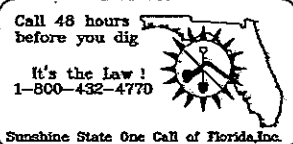
**WATER EXTENSION
PLAN**

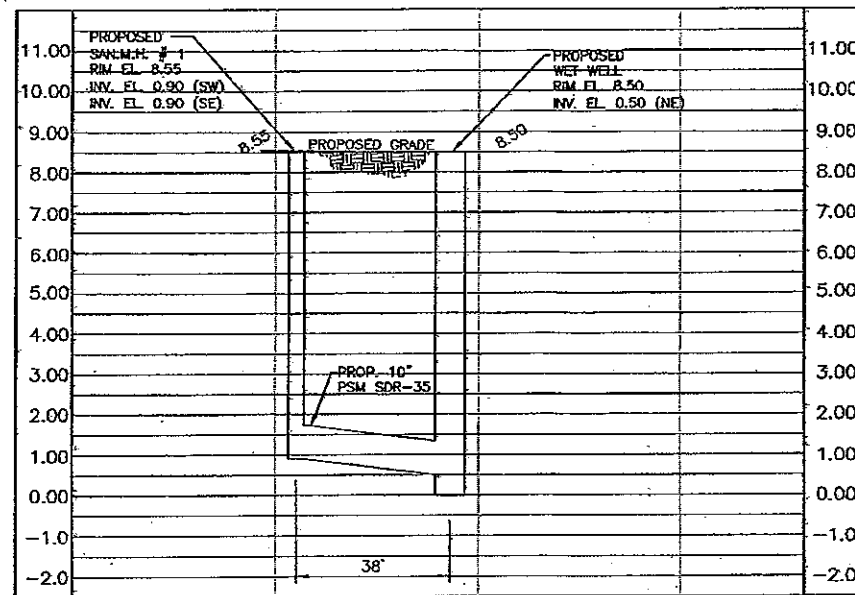
SHEET NO.

C-3.0

NOT PART OF MD-WASD NOTES NOR APPROVAL

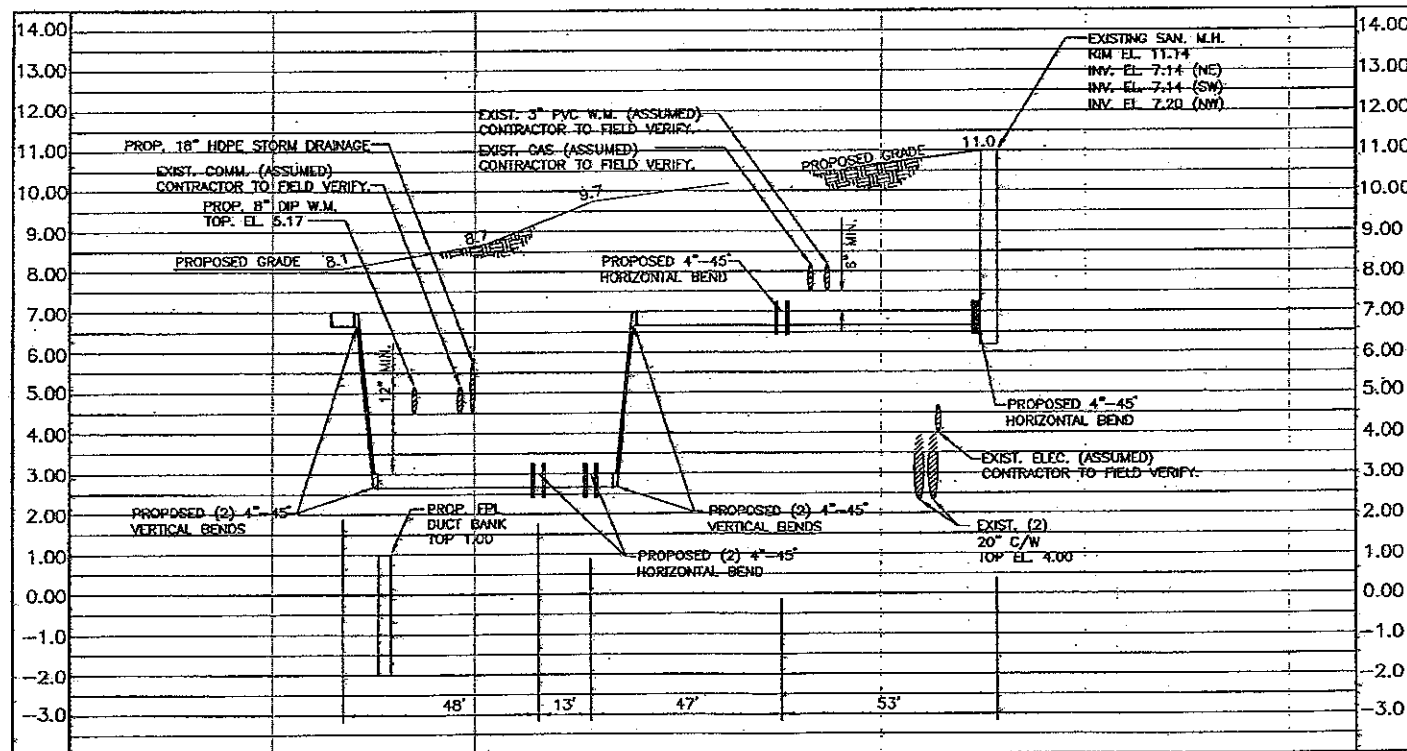
CONTRACTOR SHALL VERIFY LOCATION OF EXISTING
ABOVEGROUND AND UNDERGROUND UTILITIES PRIOR TO
BEGINNING WORK ON THIS PROJECT. THE CONTRACTOR
SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL
EXISTING UTILITIES, WHETHER SHOWN OR NOT ON THE PLANS.





PROPOSED 38 LF 10" DP SANITARY SEWER PROFILE
SCALE: 1"=20' HORIZONTAL; 1"=2' VERTICAL

NOTE:
CONTRACTOR TO VERIFY DEPTH, SIZE,
AND MATERIAL OF ALL UTILITIES.



PROPOSED 517 LF OF 4" DP FORCE MAIN PROFILE
SCALE: 1"=20' HORIZONTAL; 1"=2' VERTICAL

NOTE:
CONTRACTOR TO VERIFY DEPTH, SIZE,
AND MATERIAL OF ALL UTILITIES.



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**MICHAEL GRAVES
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STRUCTURAL ENGINEERS:

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M.E.P. ENGINEERS:

HN&GS

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OWNER: UNIVERSITY OF MIAMI

University of Miami
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MIAMI, FLORIDA 33136
(305) 274-2000
FAX (305) 274-2001

PERMIT SET

DATE: 8/10/08

BY: [Signature]

FOR: [Signature]

PROJECT NAME:

UNIVERSITY OF MIAMI

SCHOOL OF BUSINESS

PROJECT ADDRESS:

1300 UNIVERSITY AVENUE

MIAMI, FLORIDA 33136

KEY PLAN

COMM. NO. 28031.000

SCALE: AS SHOWN

DATE: AUGUST 28, 2008

DRAWN: J.E.R.

CHECKED: FT

CADD FILE: H:\PROJECTS\28031.MXD

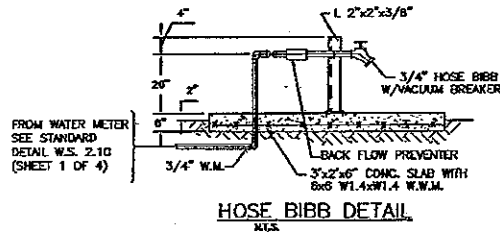
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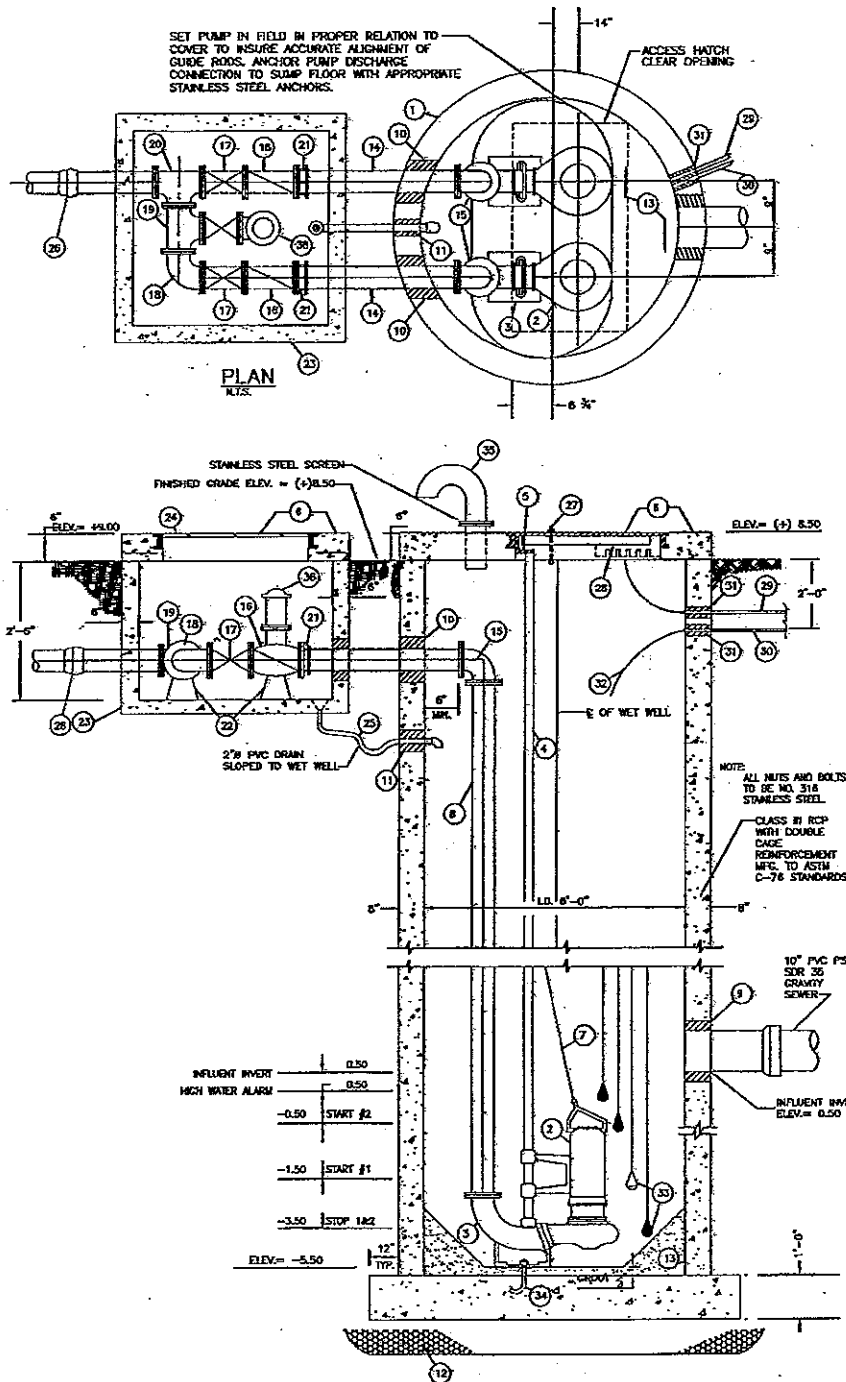
PROFILE

SHEET NO.

C-6.0



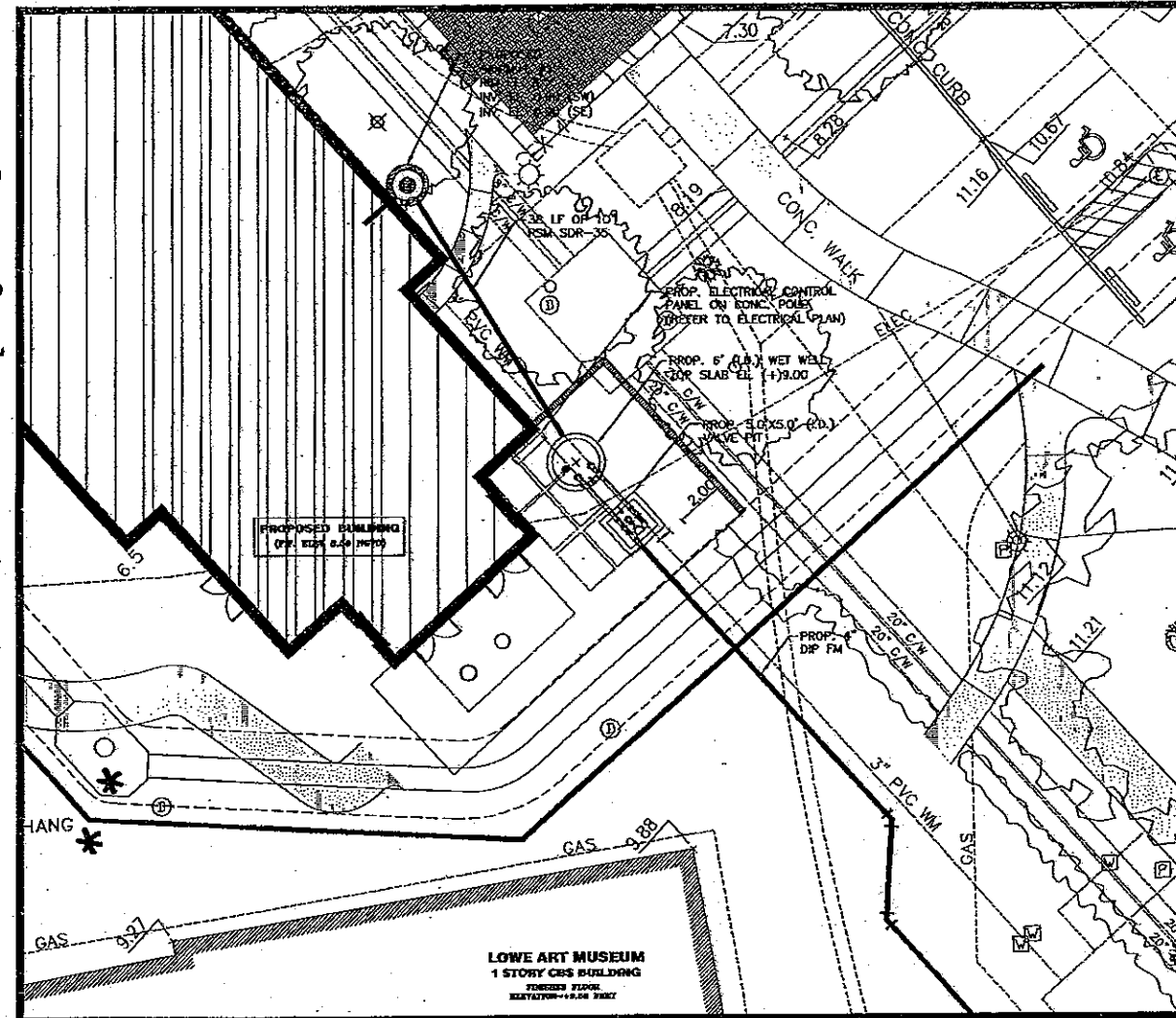
SET PUMP IN FIELD IN PROPER RELATION TO COVER TO INSURE ACCURATE ALIGNMENT OF GUIDE RODS. ANCHOR PUMP DISCHARGE CONNECTION TO SUMP FLOOR WITH APPROPRIATE STAINLESS STEEL ANCHORS.



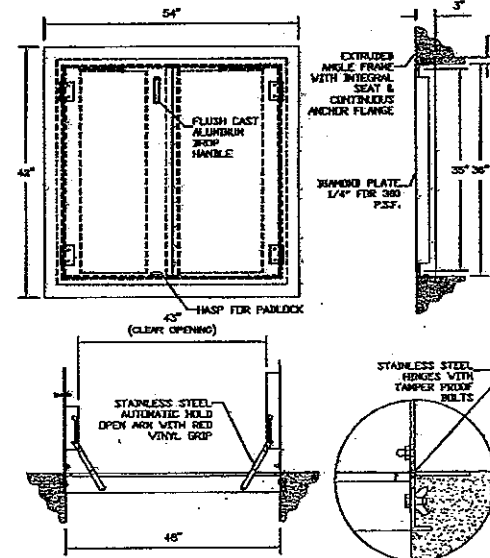
NOTES & MATERIALS LIST

1. RECEIVING WET WELL 6' INSIDE DIAMETER, PRECAST CONCRETE (3750 P.S.I.) STRUCTURE WITH INTEGRALLY CAST CONCRETE BASE SLAB, REINFORCEMENT OF BASE SLAB, WELDED OR CONTINUOUS WITH WALL REINFORCEMENT MINIMUM WALL THICKNESS TO BE 6".
2. FLYGT SUBMERSIBLE PUMP MODEL NP-3085 ELECTRIC MOTOR TO BE 3 H.P., 3 PHASE, 60 CYCLE, 460 VOLTS, PUMPS TO DELIVER 175 GPM AT 15 TDH.
3. FLYGT PUMP DISCHARGE SYSTEM.
4. GUIDE BARS 2" DIA. 304 STAINLESS STEEL PIPE (4 REQ'D) CUT AWAY THREADED ENDS, RAILS MUST BE PLUMB.
5. UPPER GUIDE HOLDERS, 304 STAINLESS STEEL, (2 REQ'D)
6. PRECAST REINFORCED CONCRETE TOP SLAB WITH ALUMINUM ACCESS HATCH AND STAINLESS STEEL HARDWARE. HATCH TO BE APO300 36"x46" WITH LOCKING HASP.
7. 300 STAINLESS STEEL CABLE OR CHAIN FROM PUMP TO HOOK.
8. 4" DUCTILE IRON DISCHARGE PIPE, POLY LINED.
9. PREFORMED HOLE TO BE 3" LARGER THAN O.D. OF PIPE. JOINT TO BE CAULKED WATER TIGHT.
10. PREFORMED HOLES 10" DIA. FOR INSTALLATION OF DISCHARGE PIPE. (2 REQ'D) JOINTS TO BE CAULKED.
11. OPENINGS FOR ELECTRICAL CONDUIT AND DRAIN PIPE. DIAMETER TO BE 1" LARGER THAN O.D. OF CONDUIT OR PIPE.
12. MINIMUM 6" DRAIN FIELD LIME ROCK BED, WELL COMPACTED.
13. CONCRETE GROUT.
14. 4" DUCTILE IRON PIPE, FLANGE X PLAN END. EPOXY LINED.
15. 4" 90° DUCTILE IRON LONG RADIUS ELBOW, FLANGED, EPOXY LINED.
16. 4" WEIGHT AND LEVER CHECK VALVE, FLANGED.
17. 4" DE ZURK, SEMI-STEEL, BRONZE MOUNTED, RESILIENT FACED PLUG, NON LUBRICATED, ECCENTRIC PLUG VALVE, FLANGED. (OR APPROVED EQUAL)
18. 4" 90° DUCTILE IRON ELBOW, FLANGED, EPOXY LINED.
19. 4" DUCTILE IRON TEE, FLANGED, EPOXY LINED.
20. 4" DUCTILE IRON TEE, FLANGED, EPOXY LINED.
21. 4" DUCTILE IRON FLANGE ADAPTER SMITH-BLAIR MODEL 912, EPOXY LINED. (OR APPROVED EQUAL)
22. SET CHECK VALVES AND TEE ON CONCRETE PEDESTAL SUPPORTS.
23. PRECAST CONCRETE VALVE PIT OR CAST IN PLACE CONCRETE VALVE PIT. (5.0'x5.0' L.D.)
24. ALUMINUM ACCESS HATCH TO BE APO300 60"x60" WITH LOCKING HASP AND STAINLESS STEEL HARDWARE.
25. 2" PVC SCHEDULE 40 VALVE VAULT DRAIN. SLOPE TO WET WELL.
26. 4" DUCTILE IRON TO PVC ADAPTER, EPOXY LINED.
27. 3/4" NO. 316 STAINLESS STEEL EYEBOLT, LARGE EYEBOLT PUMP LIFTING CABLES TO BE FASTENED TO IT.
28. LIQUID LEVEL SENSOR CABLE HOLDER (STAINLESS STEEL AND MINIMUM 6' PRONGS).
29. CARRIER CONDUIT FOR LEVEL SENSOR CABLES. (SEE LIFT STATION ELECTRICAL PLAN)
30. CARRIER CONDUIT FOR MOTOR CABLE CONDUCTORS. (SEE LIFT STATION ELECTRICAL PLAN)
31. OPENINGS FOR ELECTRICAL CONDUIT 1" LARGER THAN CONDUIT CAULK JOINTS WATER TIGHT. (SEE LIFT STATION ELECTRICAL PLANS CONDUIT SIZE)
32. PUMP LEADS TO RUN CONTINUOUSLY TO CONTROL PANEL.
33. LIQUID LEVEL SENSOR ROTO/FLOAT (NORMALLY OPEN) S3080 OR APPROVED EQUAL. (4 REQ'D)
34. STAINLESS STEEL ANCHOR BOLTS.
35. VENT 6" Ø (SCREENED), CL 50 D.L.P. EPOXY LINED.
36. EMERGENCY PUMP OUT CONNECTION.

NOTE:
FOR CONTROL PANEL (SEE ELECTRICAL PLAN),
PUMPS TO ALTERNATE STARTS. ALARM TO ACTIVATE WHEN
INFLUENT REACHES HIGH WATER ALARM ELEVATION.



LIFT STATION SITE PLAN



HATCH DETAIL
M.T.S.



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Interior Design-Landscape Architecture
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DESIGN ARCHITECT:

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UNIVERSITY OF MIAMI

SCHOOL OF BUSINESS

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CORAL GABLES, FL 33146

KEY PLAN

COMMA NO. 2001.000

SCALE: AS SHOWN

DATE: AUGUST 28, 2008

DRAWN: J.E.A.

CHECKED: FT

CADD FILE: H:\PROJ\25293\HCHM

DRAWING TITLE:

LIFT STATION

SHEET NO.

C-8.0