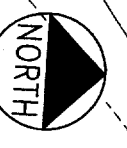
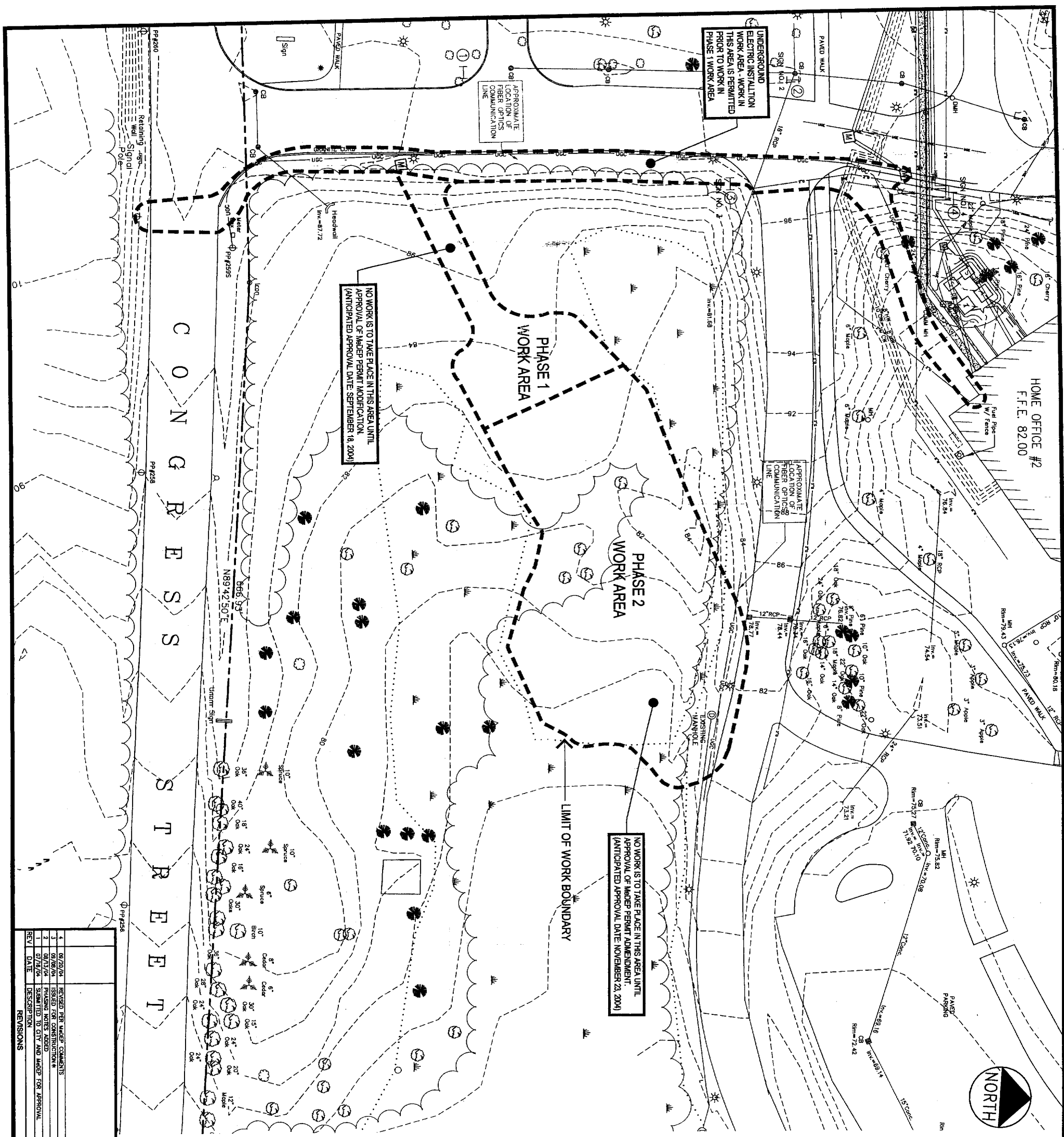


HOME OFFICE #2
F.F.E. 82.00

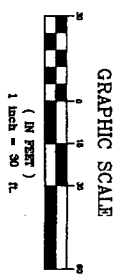


NOTES:

1. BASE TOPOGRAPHIC INFORMATION OBTAINED FROM SEBAGO TECHNICS.
2. UTILITY INFORMATION IN THE AREA OF HOME OFFICE #2 OBTAINED BY DELUCA-HOFFMAN ASSOCIATES, INC. AND HAGAR RICHTER AS PART OF THE CENTRALIZED MECHANICAL PROJECT IN 2003.
3. WETLAND DELINEATION PERFORMED BY NORMANDEAU ASSOCIATES, INC. AND LOCATED BY GPS.
4. TOTAL WETLAND IMPACT = 644 S.F.
5. LIMIT OF WORK, GRADING AND CLEARING SHALL NOT EXTEND INTO WETLAND AREAS EXCEPT AT ROADWAY DITCH AND RIPRAP OUTLET FROM STORMTECH SYSTEM.

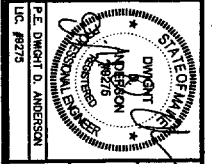
DEPT. OF BUILDING INSPECTION
CITY OF PORTLAND, ME
SEP - 6 2005
RECEIVED

SEP - 2 2005
RECEIVED



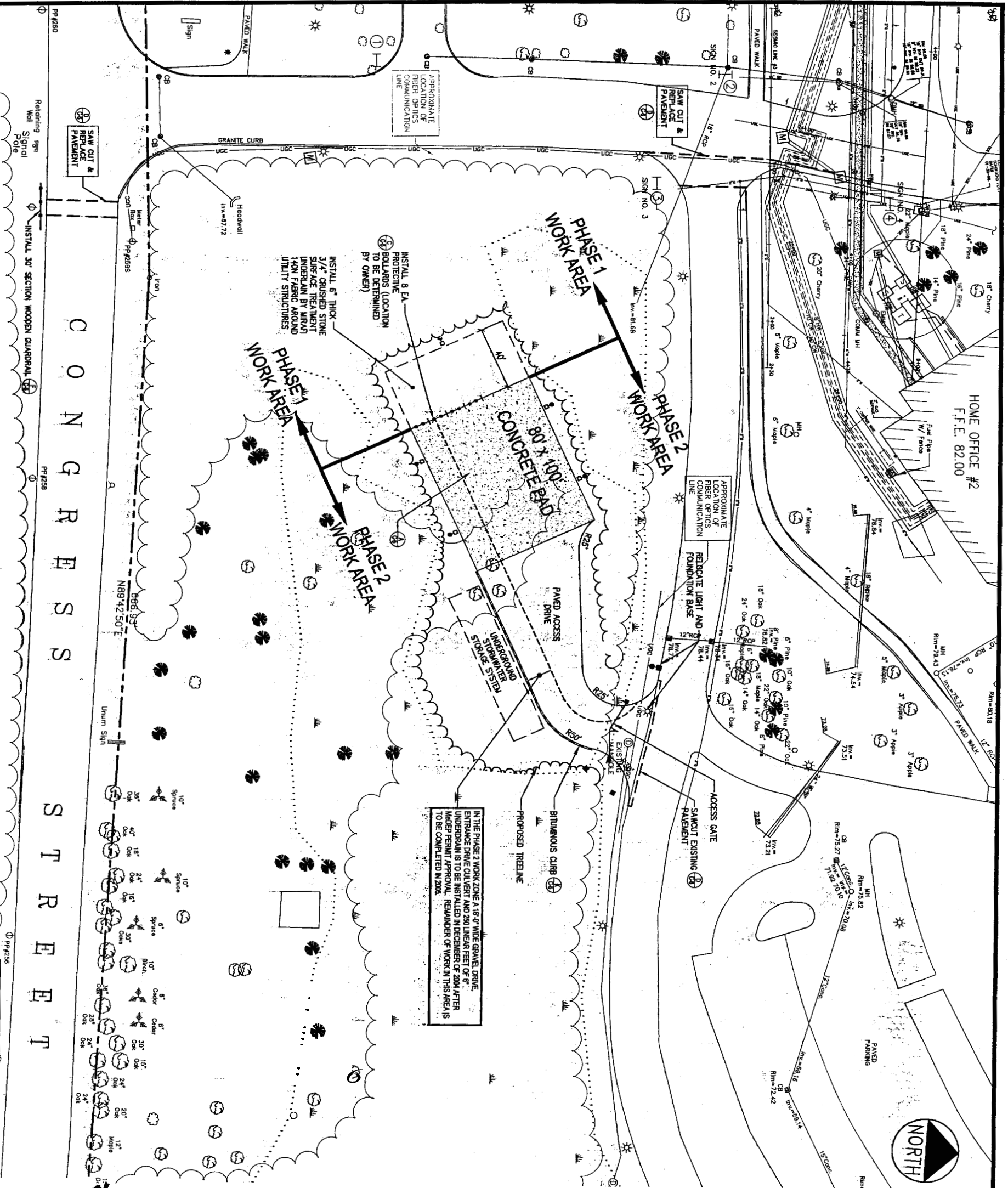
*** THIS DRAWING HAS BEEN PREPARED FOR REVIEW BY THE CITY OF PORTLAND AND FOR REVIEW OF A MDEP SITE LOCATION OF DEVELOPMENT PERMIT MODIFICATION (PHASE 1) AND AMENDMENT (PHASE 2). THE INFORMATION ON THIS DRAWING IS NOT TO BE USED FOR OTHER PURPOSES OR CONSTRUCTION UNTIL REQUIRED PERMITS HAVE BEEN SECURED BY THE OWNER.**

| REV. | DATE | DESCRIPTION | REVISIONS |
|------|----------|------------------------------------|-----------|
| 1 | 07/21/04 | REVISED PER OWNER COMMENTS | |
| 2 | 07/21/04 | REVISIONS ADDED | |
| 1 | 07/21/04 | SENT TO CITY AND MDEP FOR APPROVAL | |



PROJECT: EMERGENCY GENERATOR PAD
SHEET: EXISTING CONDITIONS PLAN AND PHASING
CLIENT: UNUM LIFE INSURANCE

DATE: FEBRUARY 2004
SCALE: 1" = 30'
DESIGNED: WSH
CHECKED: WSH
FILE NAME: 2465P
SHEET: C1

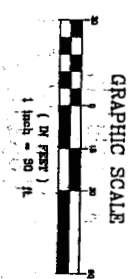


HOME OFFICE #2
F.F.E. 82.00

C O N G R E S S
S T R E E T



IN THE PHASE 2 WORK ZONE A 18\"/>



THIS DRAWING HAS BEEN PREPARED FOR REVIEW BY THE CITY OF PORTLAND AND FOR REVIEW OF A MEPEP SITE LOCATION OF DEVELOPMENT PERMIT MODIFICATION (PHASE 1) AND AMENDMENT (PHASE 2). THE INFORMATION ON THIS DRAWING IS NOT TO BE USED FOR OTHER PURPOSES OR CONSTRUCTION UNTIL REQUIRED PERMITS HAVE BEEN SECURED BY THE OWNER.

- NOTES:
1. BASE TOPOGRAPHIC INFORMATION OBTAINED FROM SEBAGO TECHNICS.
 2. UTILITY INFORMATION IN THE AREA OF HOME OFFICE #2 OBTAINED BY DELUCA-HOFFMAN ASSOCIATES, INC. AND HAGAR RICHTER AS PART OF THE CENTRALIZED MECHANICAL PROJECT IN 2003.
 3. WETLAND DELINEATION PERFORMED BY NORMANDEAU ASSOCIATES, INC. AND LOCATED BY GPS.
 4. TOTAL WETLAND IMPACT = 644 SF.
 5. LIMIT OF WORK, GRADING AND CLEARING SHALL NOT EXTEND INTO WETLAND AREAS EXCEPT AT ROADWAY DITCH AND RIPRAP OUTLET FROM STORMTECH SYSTEM.

| REV | DATE | DESCRIPTION | REVISIONS |
|-----|----------|--------------------------|-----------|
| 1 | 09/20/04 | ISSUED FOR CONSTRUCTION* | |
| 2 | 09/28/04 | ISSUED FOR CONSTRUCTION* | |
| 3 | 07/17/04 | ISSUED FOR CONSTRUCTION* | |
| 4 | 07/17/04 | REVISIONS | |

PROJECT: EMERGENCY GENERATOR PAD

SHEET TITLE: SITE LAYOUT PLAN

CIENT: UNUM LIFE INSURANCE

DATE: FEBRUARY 2004

SCALE: 1" = 50'

DESIGNED: WSN

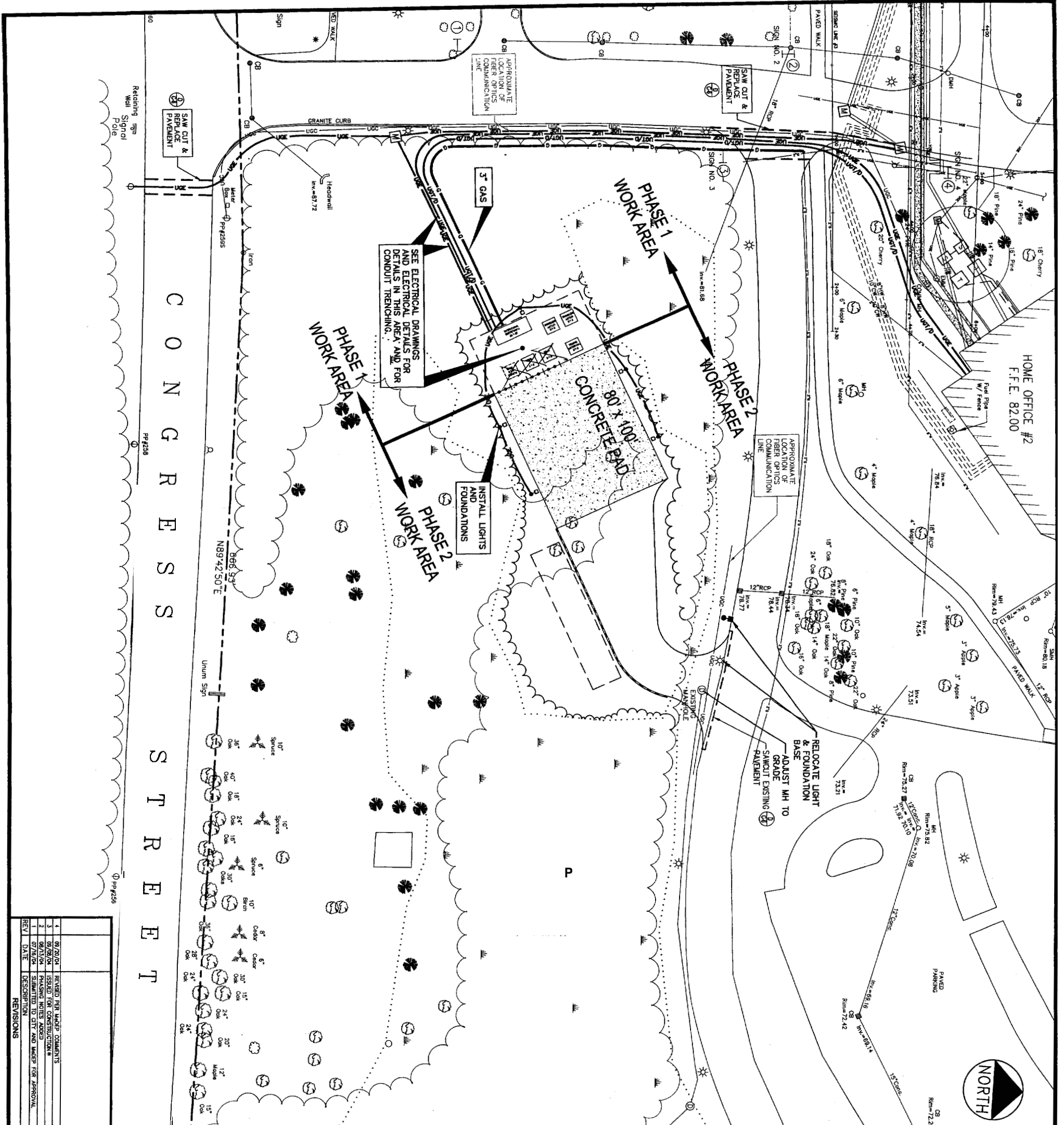
CHECKED: WSN

FILE NAME: 2003P

SHEET: 02

DELUCA-HOFFMAN ASSOCIATES, INC.
7700 NE 28TH AVE
PORTLAND, OR 97218
503.281.1111

UNUM LIFE INSURANCE
1000 N. WASHINGTON ST.
PORTLAND, OR 97227



HOME OFFICE #2
F.F.E. 82.00

C O N G R E S S
S T R E E T



- NOTES:**
1. BASE TOPOGRAPHIC INFORMATION OBTAINED FROM SEBAGO TECHNICS.
 2. UTILITY INFORMATION IN THE AREA OF HOME OFFICE #2 OBTAINED BY DELUCA-HOFFMAN ASSOCIATES, INC. AND HAGAR RICHTER AS PART OF THE CENTRALIZED MECHANICAL PROJECT IN 2003.
 3. WETLAND DELINEATION PERFORMED BY NORMANDEAU ASSOCIATES, INC. AND LOCATED BY GPS.
 4. TOTAL WETLAND IMPACT = 944 S.F.
 5. LIMIT OF WORK, GRADING AND CLEARING SHALL NOT EXTEND INTO WETLAND AREAS EXCEPT AT ROADWAY DITCH AND RIPRAP OUTLET FROM STORMTECH SYSTEM.

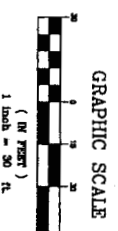
Notes: 9/2/05
 1) The size of concrete pad may change and be reduced.
 2) Electrical drawings are for 5' spacing (next work) and will be also submitted to obtain permit 1.

SEE ELECTRICAL DRAWINGS AND ELECTRICAL DETAILS FOR CONDUIT TRENCHING.

INSTALL LIGHTS AND FOUNDATIONS

80' x 100' CONCRETE PAD

RELOCATE LIGHT BASE & FOUNDATION
 ADJUST MH TO GRADE
 SAWCUT EXISTING PAVEMENT



THIS DRAWING HAS BEEN PREPARED FOR REVIEW BY THE CITY OF PORTLAND AND FOR REVIEW OF A MADEP SITE LOCATION OF DEVELOPMENT PERMIT MODIFICATION (PHASE 1) AND AMENDMENT (PHASE 2). THE INFORMATION ON THIS DRAWING IS NOT TO BE USED FOR OTHER PURPOSES OR CONSTRUCTION UNTIL REQUIRED PERMITS HAVE BEEN SECURED BY THE OWNER.

| REV | DATE | DESCRIPTION | REVISIONS |
|-----|----------|--|-----------|
| 1 | 09/20/04 | REVISED PER NUMBER COMMENTS | |
| 2 | 09/20/04 | ISSUED FOR CONSTRUCTION | |
| 3 | 07/17/04 | PHASING NOTES ADDED | |
| 4 | 07/17/04 | SUBMITTED TO CITY AND MADEP FOR APPROVAL | |

PROJECT: EMERGENCY GENERATOR PAD
 SHEET TITLE: UTILITY PLAN
 CLIENT: UNUM LIFE INSURANCE

DESIGNED: DCA
 CHECKED: DCA
 DATE: 2/25/05

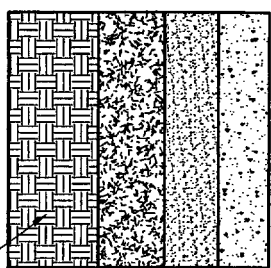
PROJECT NO: 04



DELUCA-HOFFMAN ASSOCIATES, INC.
 770 BROAD STREET, SUITE 200
 PORTLAND, ME 04101
 WWW.DELUCAHOFFMAN.COM

DATE: FEBRUARY 2005
 SCALE: 1" = 30'
 SHEET: 04

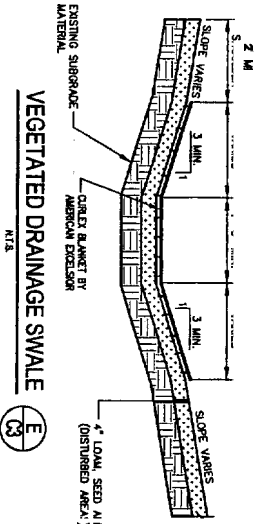
1. EXISTING PAVEMENT SHALL HAVE EXPANSION JOINTS AT A SPACING OF 30 FEET OR CENTER WITH A JOINT FILER. BARRIER STONES SHALL BE SPACED WITH AN EXPANSION JOINT SHALL BE TIED TOGETHER WITH JOINT BARRIERS THAT ARE 2'-4" LONG AND AT A SPACING OF 14 INCHES IN ADDITION TO EXPANSION JOINTS. CONTRACTION (CHECK CONTROL) JOINTS SHALL BE CONSTRUCTED AT A SPACING OF APPROXIMATELY 15-18 FEET.
2. SECTION TO BE VERIFIED BY GEOTECHNICAL INVESTIGATIONS.



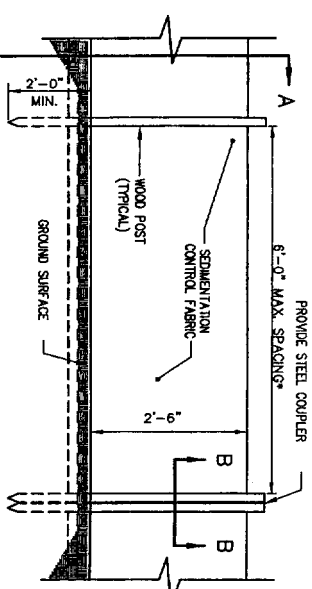
PORTLAND CEMENT CONCRETE - 4000 PSI 28 DAY
ENTIREMENT REINFORCED WITH #4 WORK WIRE

COMPLETED SURFACE IN ACCORDANCE WITH THE
PROJECT SPECIFICATIONS

HEAVY DUTY PORTLAND CEMENT CONCRETE SECTION

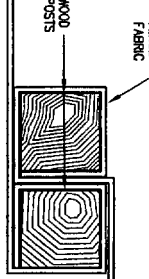


VEGETATED DRAINAGE SWALE



ELEVATION VIEW

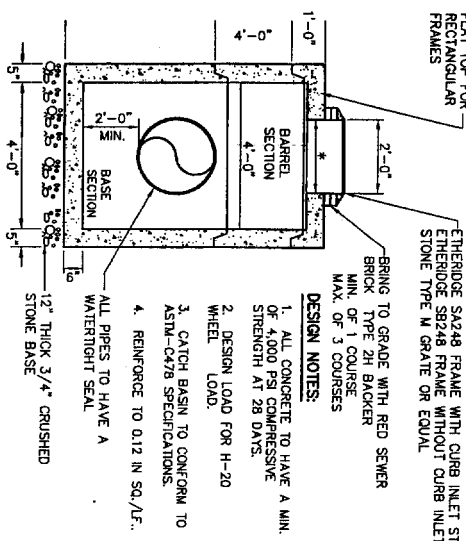
NOTE:
THE SILT FENCE SHOULD HAVE A MAXIMUM STAKING DISTANCE OF 6' UNLESS THE FENCE IS SUPPORTED BY WIRE FENCE REINFORCEMENT A MAXIMUM 14 GAUGE AND WITH A MINIMUM MESH SPACING OF 6".



SECTION B-B

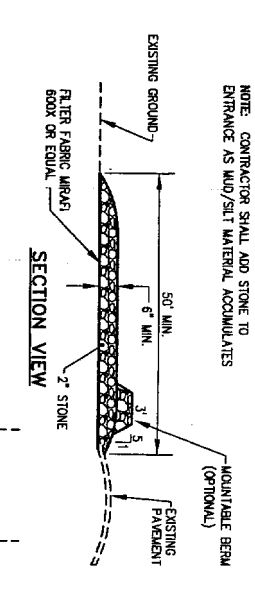
NOTE:
BOTTOM OF SILT FENCE MUST BE TIED INTO GROUND OR NO PAVEMENT SHALL BE MADE. SEE DRAWING C-18 FOR SILT FENCE INSTALLATION SCHEDULE.

SILTATION FENCE DETAIL



4IDA PRECAST CATCH BASIN

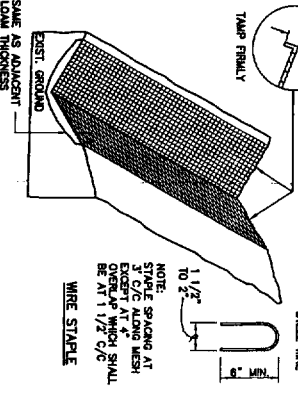
- FLAT TOP FOR RECTANGULAR FRAMES
- ETHERIDGE S2424 FRAME WITH CURB INLET STONE
- BRING TO GRADE WITH RED SOWER BRICK TYPE 2H BACKER MIN. OF 1 COURSE MAX. OF 3 COURSES
- DESIGN NOTES:
1. ALL CONCRETE TO HAVE A MIN. OF 4,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.
 2. DESIGN LOAD FOR H-20 WHEEL LOAD.
 3. CATCH BASIN TO CONFORM TO ASTM-C478 SPECIFICATIONS.
 4. REINFORCE TO 0.12 IN. SQ./FT. ALL PIPES TO HAVE A WATER-TIGHT SEAL.
- 12" THICK 3/4" CRUSHED STONE BASE



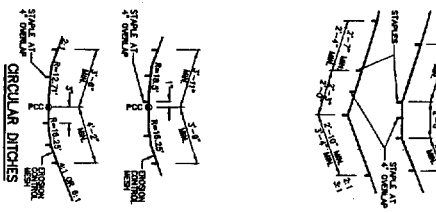
SECTION VIEW

STABILIZED CONSTRUCTION ENTRANCE

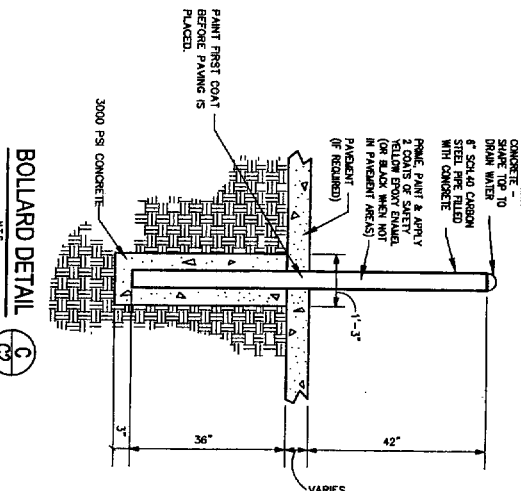
NOTE: CONTRACTOR SHALL ADD STONE TO ENTRANCE AS MUD/SILT MATERIAL ACCUMULATES



EROSION CONTROL MESH



CIRCULAR DITCHES



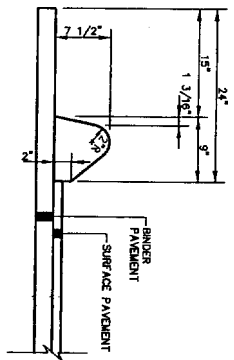
BOLLARD DETAIL

SCHEDULE FOR STONE BARRIERS

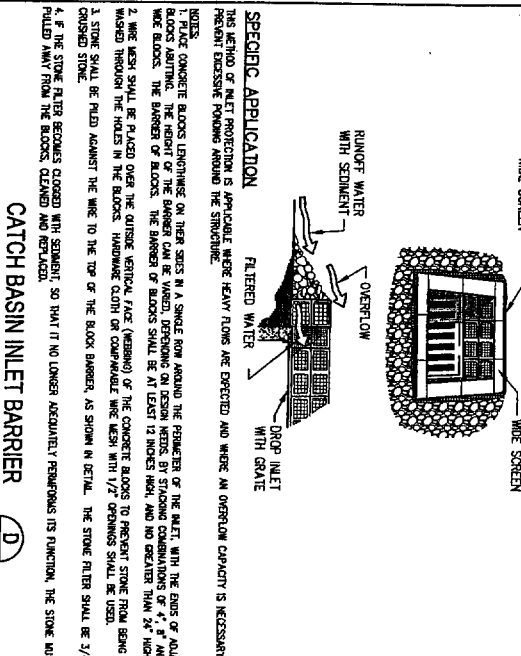
| STONE SIZE | SPACING | THICKNESS |
|------------|---------|-----------|
| 12" | 12" | 12" |
| 18" | 18" | 18" |
| 24" | 24" | 24" |
| 30" | 30" | 30" |
| 36" | 36" | 36" |
| 42" | 42" | 42" |
| 48" | 48" | 48" |

PIPE / CULVERT INLET APRON

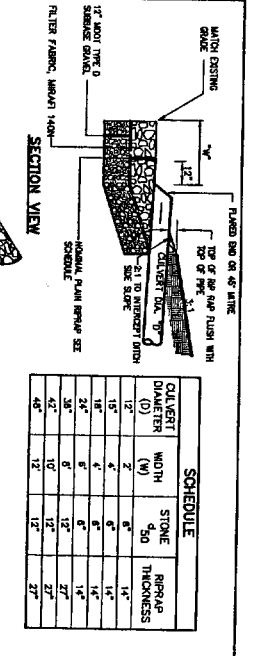
NOTE:
RIPRAP GRADATION AND PLACEMENT - THE RIPRAP GRADATION SHALL BE A WELL-SORTED MIX FROM ABOUT 1.5 TIMES THE D SIZE TO ABOUT 25 PERCENT OF THE D SIZE. THE RIPRAP STONES SHALL BE CAREFULLY PLACED WORKING FROM THE TOE OF THE SLOPE UPWARD. THE STONES SHOULD BE TIED TO THE TOE OF THE SLOPE AND NOT BE ALLOWED TO DRIFT. THE FINISHED SURFACE TO THE RELATIVELY SMOOTH UNIFORM SLOPED SURFACE.



TYPE 3A BITUMINOUS CURB DETAIL

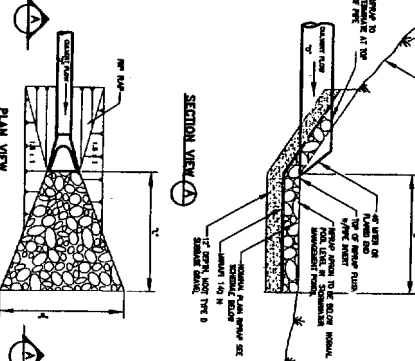


CATCH BASIN INLET BARRIER



SECTION VIEW

PLAN VIEW



PIPE / CULVERT OUTLET APRON

SCHEDULE FOR STONE BARRIERS

| STONE SIZE | SPACING | THICKNESS |
|------------|---------|-----------|
| 12" | 12" | 12" |
| 18" | 18" | 18" |
| 24" | 24" | 24" |
| 30" | 30" | 30" |
| 36" | 36" | 36" |
| 42" | 42" | 42" |
| 48" | 48" | 48" |

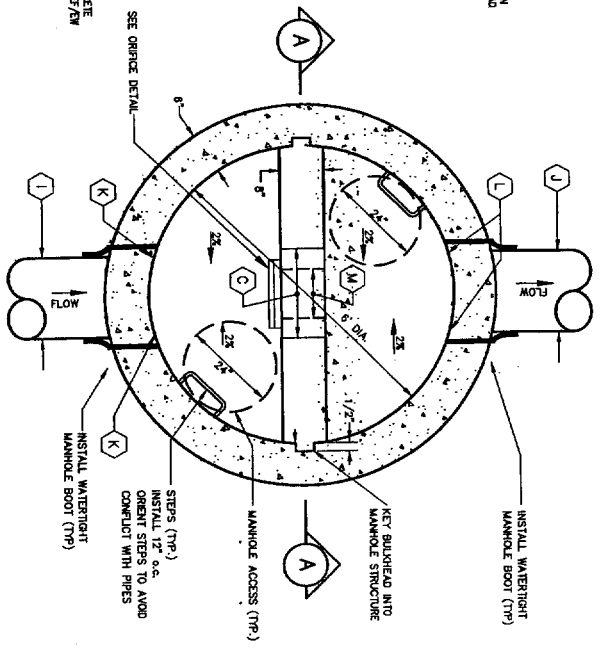
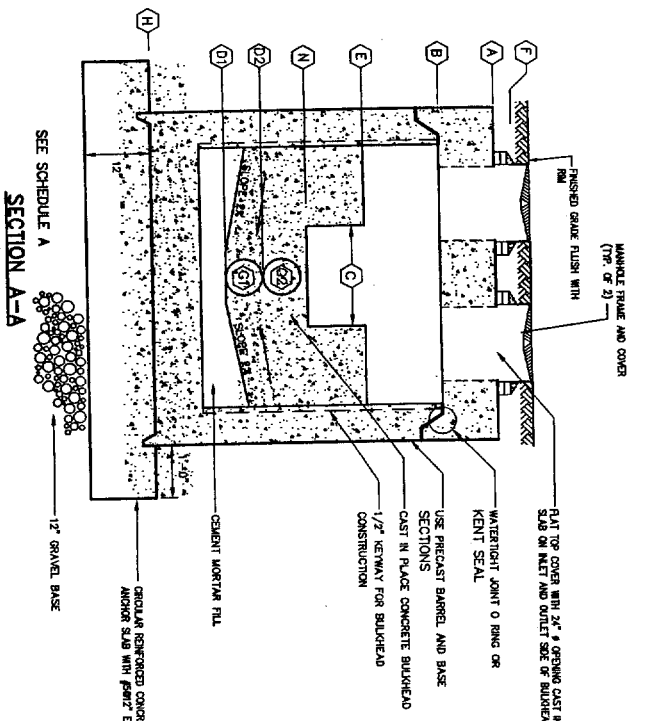
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
DESIGN DIVISION
PROJECT: EMERGENCY GENERATOR PAD
SHEET TITLE: MISCELLANEOUS PTE DETAIL
DRAWN: [Name]
CHECKED: [Name]
DATE: [Date]

UNUM LIFE INSURANCE

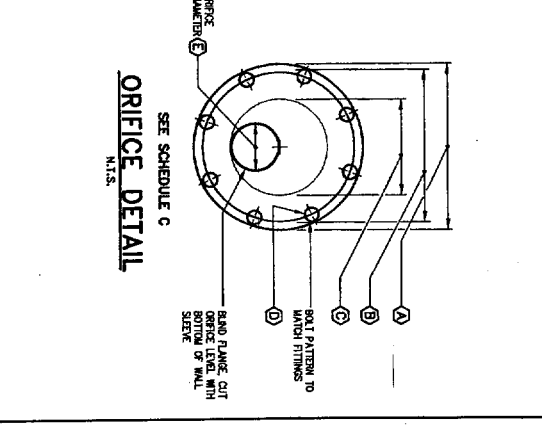
REVISIONS

| REV | DATE | DESCRIPTION |
|-----|----------|----------------------------|
| 1 | 08/20/04 | REVISED FOR TYPED COMMENTS |
| 2 | 07/16/04 | REVISED FOR CONSTRUCTION |
| 3 | 07/16/04 | REVISED FOR CONSTRUCTION |

DATE: 08/20/04
SCALE: AS NOTED
DRAWN: [Name]
CHECKED: [Name]
DATE: 08/20/04

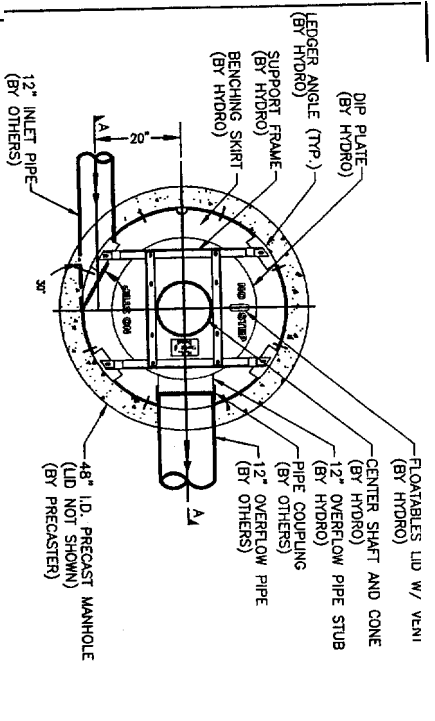
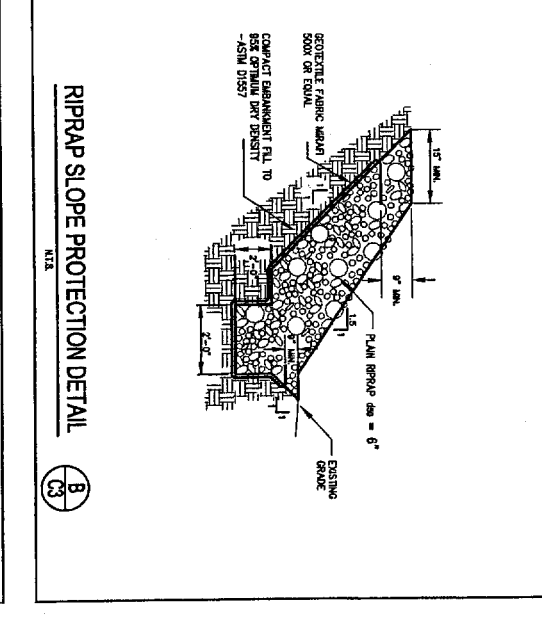
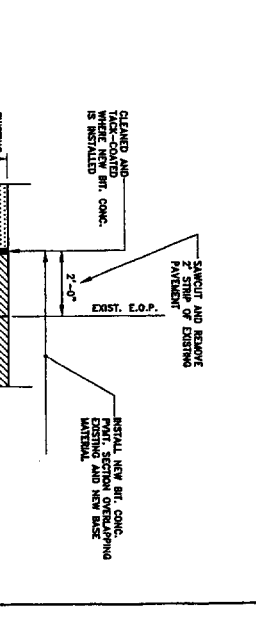


| SCHEDULE A OUTLET CONTROL STRUCTURE | |
|--|-------------|
| ITEM DESCRIPTION | QUANTITY |
| A | 22.00 |
| B | 81.50 |
| C | 6.50 |
| D | 78.70 |
| E | 78.42 |
| F | 80.00 |
| G | 0.33 |
| H | 1.4 |
| I | 78.00 |
| J | 12 |
| K | 78.75 |
| L | 78.65 |
| M | 6' x 2 EACH |
| N | 78.40 |



| SCHEDULE B-ORIFICE G1 | |
|-----------------------|---------|
| DESCRIPTION | ORIFICE |
| A | 12.00" |
| B | 10.00" |
| C | 8" |
| D | 0.5" |
| E | 1.4" |

| SCHEDULE B-ORIFICE G2 | |
|-----------------------|---------|
| DESCRIPTION | ORIFICE |
| A | 12.00" |
| B | 10.00" |
| C | 8" |
| D | 0.5" |
| E | 1.4" |



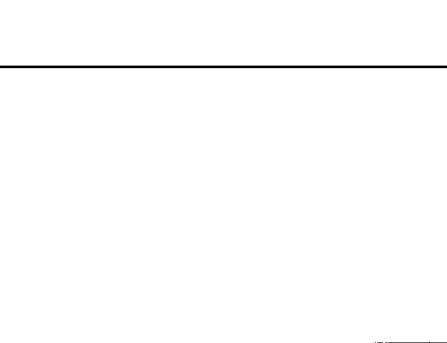
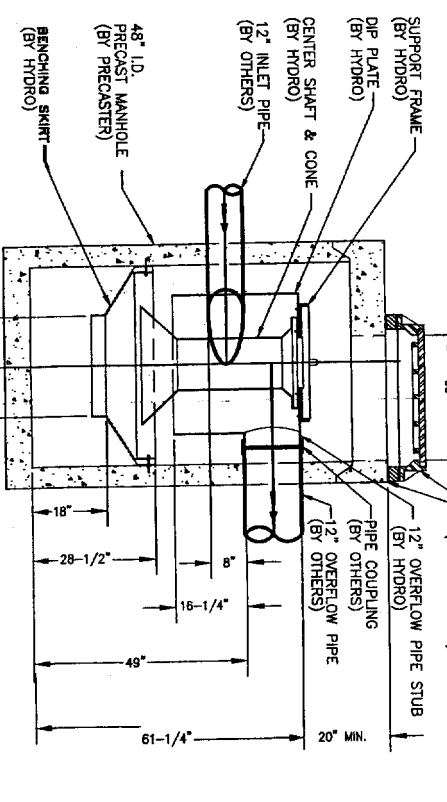
EQUIPMENT PERFORMANCE

The stormwater treatment unit shall adhere to the hydraulic parameters given in the chart below and provide the removal efficiencies and storage capacities as follows:

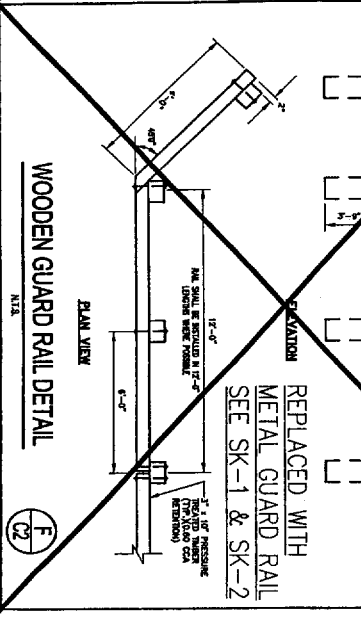
1. Performance objectives: To remove at least 80% of all particles with specific gravity of 2.65 and larger frequent storm flow listed below, based on a particle size greater than 300 microns. Additionally, the treatment chamber must be capable of removing greater than 50% of all particles in the range of 300-425 microns of the peak treatment flow rate listed below.
2. Peak storm flow: 75 cfs
3. Peak treatment flow: 3.0 cfs
4. Sediment storage capacity: 70 Cu. Yd.
5. Oil storage capacity: 70 Gal.
6. Sediment shall be stored in a zone that is isolated from the main flow path and protected from reentrainment by a benching skirt.

| HYDRAULIC PARAMETERS | | |
|---|-----|--------|
| DEPTH OF FLOW IN OVERFLOW PIPE AT .75 cfs | 3.5 | INCHES |
| DEPTH OF FLOW IN OVERFLOW PIPE AT 3.0 cfs | 8 | INCHES |
| ESTIMATED HEADLOSS* AT .75 cfs | 3 | INCHES |
| ESTIMATED HEADLOSS* AT 3.0 cfs | 23 | INCHES |

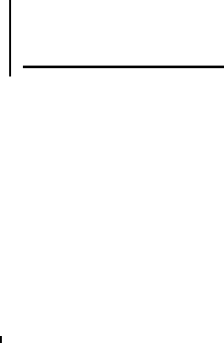
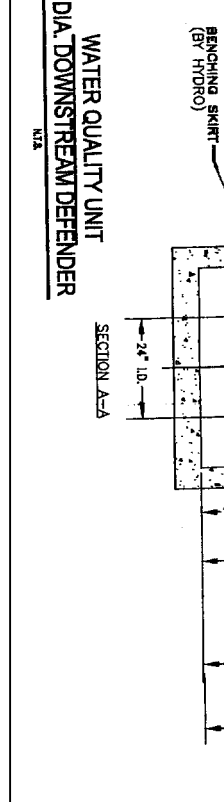
*HEADLOSS IS DETERMINED AS THE DIFFERENCE BETWEEN STATIC WATER HEADLOSS AT THE INLET OF THE DOWNSTREAM DEFENDER TO THE FREE WATER SURFACE IN THE OVERFLOW PIPE ASSUMING FREE DISCHARGE.



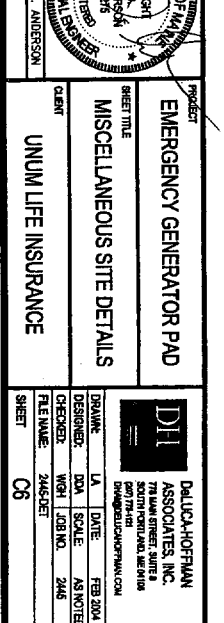
| SCHEDULE OF BASE BACKFILL | | | |
|---------------------------|---|------------------------|--------------------------|
| TYPE OF PIPE | SPECIAL MATERIAL | SPECIAL BACKFILL COVER | SPECIAL SETBACK BACKFILL |
| CONCRETE | 3/4" CRUSHED W/ #4-A-3 | 12 | GRANULAR W/ #4-A-3 |
| PVC | 3/4" CRUSHED CONCRETE OR BETTER W/ #4-A-3 | 6 | GRANULAR W/ #4-A-3 |
| CMU | 3/4" CRUSHED CONCRETE OR BETTER W/ #4-A-3 | 6 | GRANULAR W/ #4-A-3 |
| DUCTILE IRON | GRANULAR W/ #4-A-3 OR BETTER | 6 | GRANULAR W/ #4-A-3 |



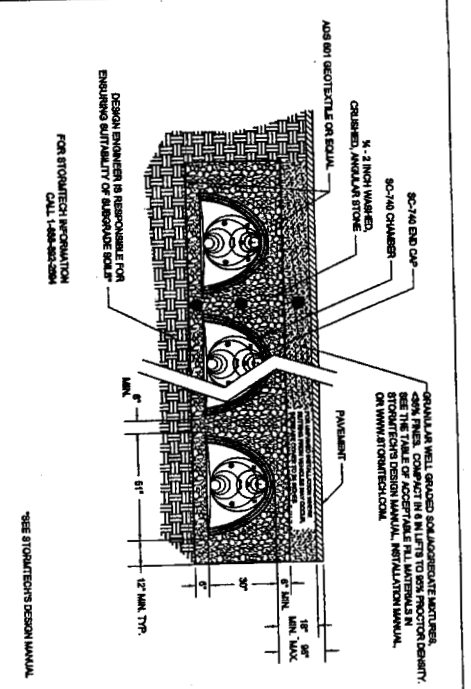
WATER QUALITY UNIT
4 DIA. DOWNSTREAM DEFENDER
N.T.S.



| SCHEDULE OF BASE BACKFILL | | | |
|---------------------------|---|------------------------|--------------------------|
| TYPE OF PIPE | SPECIAL MATERIAL | SPECIAL BACKFILL COVER | SPECIAL SETBACK BACKFILL |
| CONCRETE | 3/4" CRUSHED W/ #4-A-3 | 12 | GRANULAR W/ #4-A-3 |
| PVC | 3/4" CRUSHED CONCRETE OR BETTER W/ #4-A-3 | 6 | GRANULAR W/ #4-A-3 |
| CMU | 3/4" CRUSHED CONCRETE OR BETTER W/ #4-A-3 | 6 | GRANULAR W/ #4-A-3 |
| DUCTILE IRON | GRANULAR W/ #4-A-3 OR BETTER | 6 | GRANULAR W/ #4-A-3 |



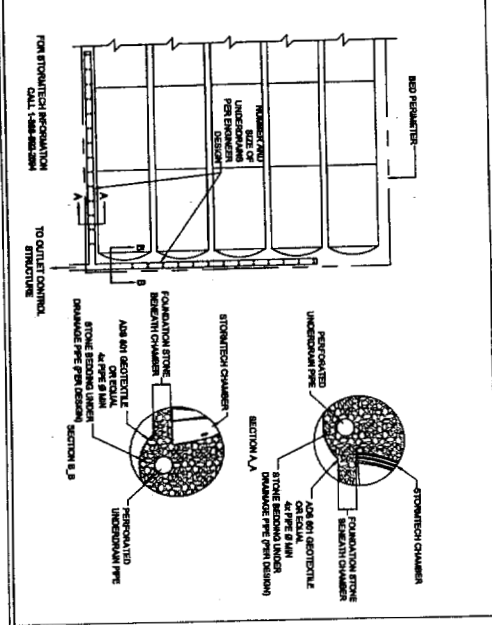
| | |
|-------------|------------------------------|
| PROJECT | EMERGENCY GENERATOR PAD |
| SHEET TITLE | MISCELLANEOUS SITE DETAILS |
| CLIENT | UNIM LIFE INSURANCE |
| DATE | FEB 2004 |
| DESIGNED BY | DLA/HORFRAN ASSOCIATES, INC. |
| CHECKED BY | WHL |
| SCALE | AS NOTED |
| FILE NAME | 2445 |
| SHEET | 06 |



SC-740 TYPICAL CROSS SECTION
ACCEPTABLE FILL MATERIALS
STORMTECH SC-740 CHAMBER SYSTEMS

| MATERIAL LOCATION | DESCRIPTION | MINIMUM THICKNESS | MINIMUM DENSITY | MINIMUM COMPACTED THICKNESS |
|--------------------------------|-------------|-------------------|-----------------|-----------------------------|
| FILL MATERIAL ABOVE CHAMBER | 1. 2\"/> | | | |
| FILL MATERIAL BETWEEN CHAMBERS | 1. 2\"/> | | | |
| FILL MATERIAL BELOW CHAMBERS | 1. 2\"/> | | | |
| FOUNDATION BELOW CHAMBERS | 1. 2\"/> | | | |

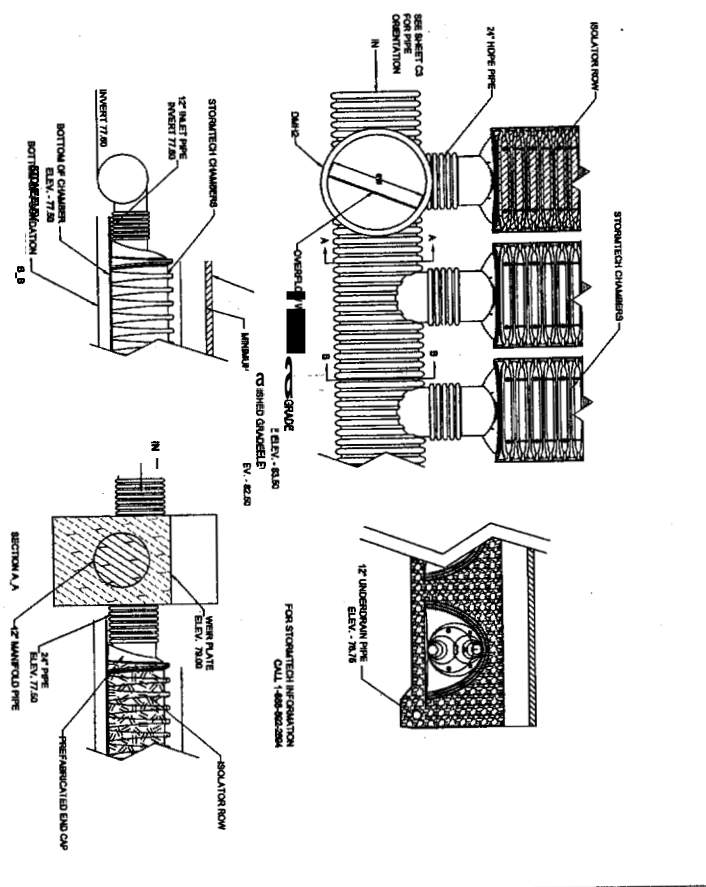
PLEASE NOTE: THE LISTED ASSAULT DISAGREEMENTS ARE FOR QUALITATIONS ONLY. THE STORMTECH SYSTEM SHOULD BE INSTALLED AS SHOWN. FOR EXAMPLE, THE STORMTECH SYSTEM SHOULD BE INSTALLED AS SHOWN. FOR EXAMPLE, THE STORMTECH SYSTEM SHOULD BE INSTALLED AS SHOWN.



STORMTECH UNDERDRAIN DETAIL

NOTES:
1. ALL DESIGN SPECIFICATIONS FOR STORMTECH CHAMBERS SHALL BE IN ACCORDANCE WITH THE STORMTECH DESIGN FOR STORMTECH CHAMBERS.
2. THE INSTALLATION OF STORMTECH CHAMBERS SHALL BE IN ACCORDANCE WITH THE LATEST STORMTECH INSTALLATION INSTRUCTIONS.
3. THE CONTRACTOR IS ADVISED TO REVIEW AND UNDERSTAND THE INSTALLATION INSTRUCTIONS PRIOR TO BEGINNING THE SYSTEM INSTALLATION. CALL 1-888-882-2884 FOR A COPY OF THE LATEST STORMTECH INSTALLATION INSTRUCTIONS.

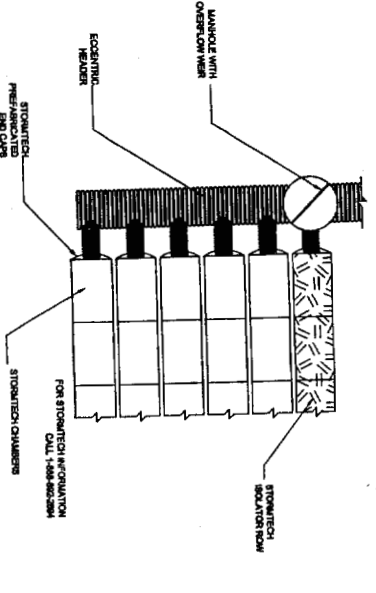
STORMTECH ELEVATIONS



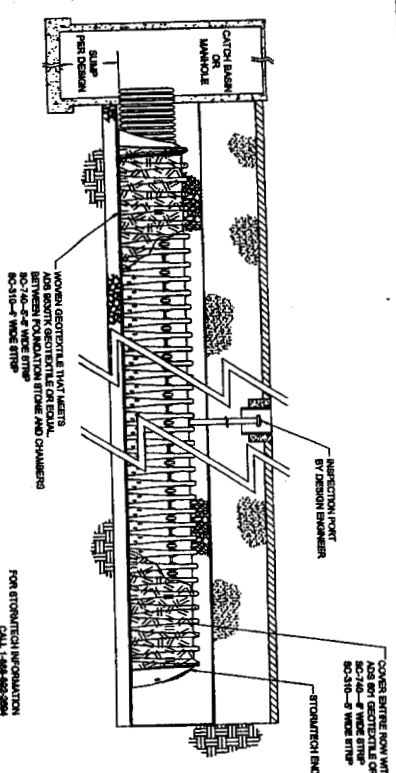
SC-740 TECHNICAL DETAILS

| CHAMBER SIZE | INSTALLATION LENGTH | INSTALLATION WEIGHT | INSTALLATION VOLUME | INSTALLATION AREA |
|--------------|---------------------|---------------------|---------------------|-------------------|
| 4\"/> | | | | |
| 6\"/> | | | | |
| 8\"/> | | | | |
| 12\"/> | | | | |
| 18\"/> | | | | |
| 24\"/> | | | | |
| 30\"/> | | | | |
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STORMTECH ACCEPTABLE FILL MATERIALS

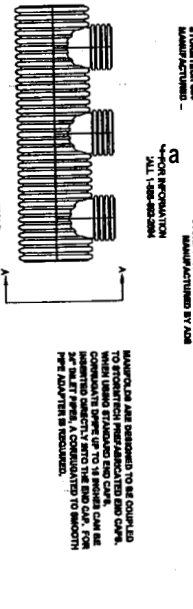
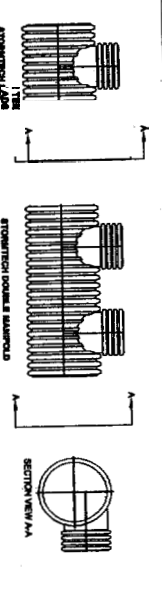
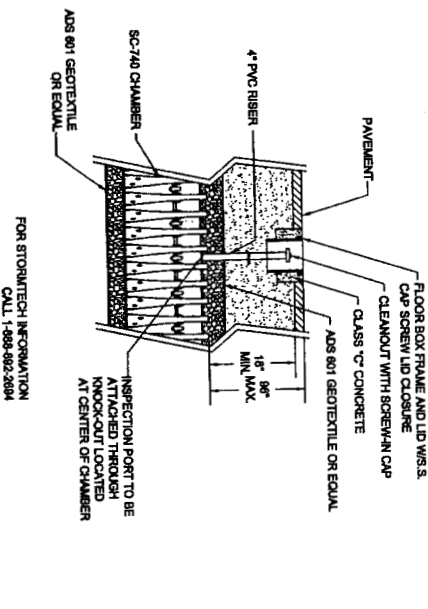


STORMTECH ISOLATOR ROW MANIFOLD DETAIL



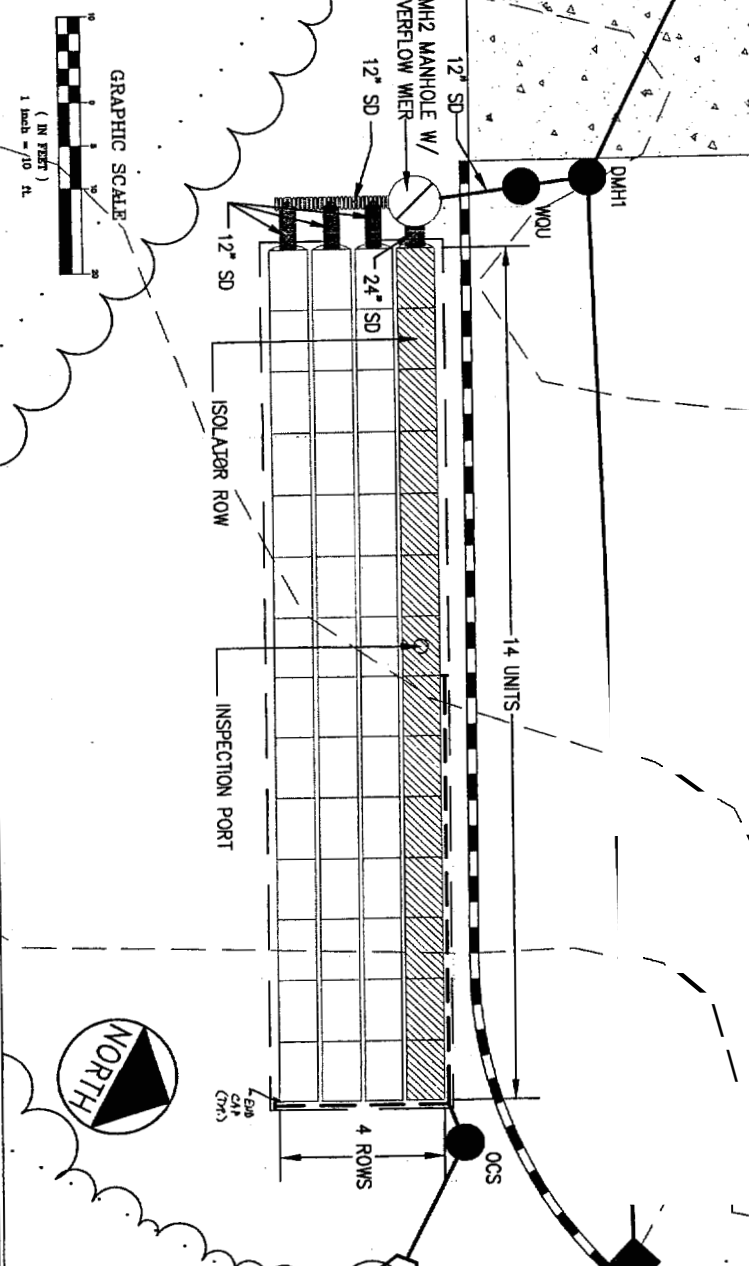
STORMTECH ISOLATOR ROW DETAIL

STORMTECH INSPECTION PORT DETAIL



ADS MANIFOLD DETAILS

STORMTECH SC-740 CHAMBER LAYOUT



| | | | |
|-----|----------|-----------------------------------|-----------|
| REV | DATE | DESCRIPTION | REVISIONS |
| 1 | 11/17/04 | SHEET ADDED FOR MANIFOLD COMMENTS | |
| | | | |

PROJECT: EMERGENCY GENERATOR PAD
CLIENT: STORMTECH SC-740 CHAMBER DETAIL SHEET
UNIM LIFE INSURANCE

DESIGNED BY: J. HOFFMAN
CHECKED BY: J. HOFFMAN
DATE: NOV/2004
SCALE: NTS
JOB NO.: 24621
SHEET: C7