

REFER TO SHEET C-4.1 FOR
ADDITIONAL INFORMATION
PERTAINING TO STREAM
BUFFERS AND EASEMENTS
AS SHOWN ON THIS PLAN.

GENERAL NOTES

- OWNER OF RECORD:
TOWN OF CUMBERLAND
280 TUTTLE ROAD
CUMBERLAND, MAINE 04021
- PROJECT NAME / MUNICIPALITY:
VILLAGE GREEN
CUMBERLAND, MAINE
- APPLICANT / DEVELOPER:
VILLAGE GREEN CUMBERLAND, LLC
P.O. BOX 3572
PORTLAND, MAINE 04104
- ENGINEER / DESIGNER:
DELUCA-HOFFMAN ASSOCIATES, INC.
778 MAIN STREET, SUITE 8
SOUTH PORTLAND, MAINE 04106
- BOUNDARY AND TOPOGRAPHIC SURVEY:
TITCOMB ASSOCIATES, INC.
133 GRAY ROAD
PALMOUTH, MAINE 04106
- WETLANDS DELINEATION:
BOYLE ASSOCIATES
25 DUNDEE ROAD
GORHAM, ME 04038
- PARCEL SIZE AND TAX ASSESSOR DATA:
PROJECT SITE IS IDENTIFIED BY THE CUMBERLAND ASSESSOR'S OFFICE AS
LOT 78 ON TAX MAP U10 CONTAINING 40.69 ACRES OF LAND, INCLUDING 1.48
ACRES IN WYMAN WAY RIGHT-OF-WAY TO MAIN STREET
- ZONING:
VILLAGE MIXED USE (VMU) WITH CONTRACT ZONING OVERLAY
- USE:
SINGLE FAMILY RESIDENTIAL USES (ATTACHED AND DETACHED) ARE
PERMITTED USES WITHIN THE CONTRACT OVERLAY ZONE
- CONTRACT OVERLAY ZONE DIMENSIONAL REQUIREMENTS:
THE FOLLOWING MINIMUM LOT SIZES ARE REQUIRED:

USE	MIN. LOT SIZE (S.F.)	MIN. LOT AREA PER UNIT (S.F.)	MIN. LOT FRONTAGE (F.T.)	MIN. LOT DEPTH (F.T.)	MIN. LOT WIDE DRIVE (F.T.)	MIN. LOT WIDE ROAD (F.T.)	MIN. LOT WIDE R.O.W. (F.T.)
DETACHED SINGLE FAMILY RESIDENTIAL STRUCTURE	5,000	5,000	15'	50'	50'	50'	50'
ATTACHED SINGLE FAMILY RESIDENTIAL STRUCTURE	5,000	5,000	15'	50'	50'	50'	50'

STRUCTURE TYPE	FRONT	SIDE	REAR
DETACHED SINGLE FAMILY RESIDENTIAL STRUCTURE AND GARAGE	15'	10'	15'
ATTACHED SINGLE FAMILY RESIDENTIAL STRUCTURE AND GARAGE	15'	10'	15'
DETACHED SHED	15'	8'	8'

MAXIMUM NUMBER OF RESIDENTIAL UNITS ACCESSED FROM PRIVATE DRIVE IS
LIMITED TO 6.

THE FOLLOWING MINIMUM SETBACKS ARE REQUIRED FOR ALL STRUCTURES:

* SETBACK BETWEEN FACE OF GARAGE AND SIDEWALK SHALL BE MINIMUM
DISTANCE OF 20'.
* SIDE SETBACK REDUCED TO 0' ALONG COMMON SIDELINE BETWEEN
ATTACHED RESIDENTIAL STRUCTURES AND GARAGES.

NET RESIDENTIAL DENSITY CALCULATIONS:	40.69 ACRES
TOTAL PARCEL AREA	MINUS
15% FOR ROADS AND PARKING	6.10 ACRES
ISOLATED LAND AREAS	0.00 ACRES
OTHER UNDEVELOPABLE AREAS	0.00 ACRES
SLOPES >20%	6.53 ACRES
WETLANDS	6.28 ACRES
100-YEAR FLOODPLAIN	0.00 ACRES
LAND WITH ROW OR EASEMENT	1.11 ACRES
RESOURCE PROTECTION DISTRICT	3.40 ACRES
NET RESIDENTIAL ACREAGE	20.75 ACRES
RESIDENTIAL DENSITY (5,000 S.F./UNIT)	189 RES. UNITS

- A PRECONSTRUCTION MEETING BETWEEN THE TOWN OF CUMBERLAND AND
THE DEVELOPER'S CONTRACTOR IS REQUIRED PRIOR TO THE START OF ANY
WORK.
- THE PERFORMANCE GUARANTEE REQUIRED BY SECTION 4.4.D.7 OF THE TOWN
OF CUMBERLAND SUBDIVISION ORDINANCE SHALL BE FURNISHED IN AN
AMOUNT AND IN A FORM ACCEPTABLE TO AND APPROVED BY THE TOWN
PRIOR TO START OF ANY WORK.
- THE WETLAND AREAS SHOWN ON THE INDIVIDUAL LOTS SHALL NOT BE
DISTURBED BEYOND THE LIMITS IDENTIFIED ON THE PLANS AND APPROVED BY
THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THE ARMY
CORPS OF ENGINEERS. NO ADDITIONAL WETLAND IMPACTS MAY OCCUR ON
THE INDIVIDUAL LOTS BEYOND THAT SHOWN ON THE PLANS. UNLESS THE
REQUIRED PERMITS ARE FIRST OBTAINED, THE INDIVIDUAL LOTS ARE NOT
ELIGIBLE FOR THE 4,300 S.F. WETLAND IMPACT EXEMPTION.
- ALL LOT OWNERS SHALL BE MEMBERS OF AN ASSOCIATION THAT WILL BE
RESPONSIBLE FOR MAINTAINING ALL STORMWATER MANAGEMENT AND
TREATMENT MEASURES AND ASSOCIATED PIPES AND STRUCTURES, PRIVATE
ROADS, PRIVATE DRIVES, AND PUBLIC WALKING TRAILS WITHIN THE
DESIGNATED OPEN SPACE AREAS.
- DESIGNATED OPEN SPACE AREAS SHALL BE OPEN TO THE GENERAL PUBLIC.
- FURTHER LOT DIVISION SHALL BE PROHIBITED WITHOUT FURTHER PLANNING
BOARD APPROVAL.
- ALL LOTS ARE SUBJECT TO THE CONDITIONS OF THE FOLLOWING PERMITS:
SITE LOCATION OF DEVELOPMENT ACT: PERMIT # L-25376-L3-A-N
NATURAL RESOURCE PROTECTION ACT: PERMIT # L-25376-TC-B-N
U.S. ACCESSION SECTION 404 WETLAND: PERMIT # NAE-2011-01168

LEGEND

- | DESCRIPTION | DESCRIPTION |
|--|---|
| PROJECT BOUNDARY | EXISTING ADJUTING PROPERTY LINE/R.O.W. LINE |
| PROPOSED SUBDIVISION LOT LINE | PROPOSED RIGHT-OF-WAY LINE |
| PROPOSED PRIVATE DRIVE RIGHT-OF-WAY LINE | PROPOSED EASEMENT LINE |
| PROPOSED EASEMENT AREA | PROPOSED BUILDING SETBACK |
| EDGE OF WETLAND | STREAM |
| STREAM BUFFER LINE | STREAM BUFFER LINE |
| PHASE LINE | WETLAND IMPACT AREA |
| EXISTING ROADWAY MONUMENTATION | GRANITE OR PRECAST CONC. MON. TO BE SET |
| EXISTING PROPERTY MONUMENTATION | IRON PIPE / IRON PIN TO BE SET |

THIS AMENDED FINAL SUBDIVISION
PLAN SUPERCEDES THE PREVIOUS
FINAL SUBDIVISION PLAN APPROVED
BY THE CUMBERLAND PLANNING
BOARD ON SEPTEMBER 20, 2011.

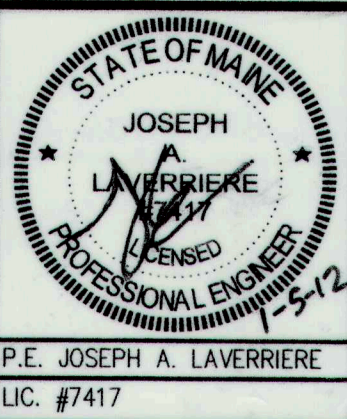
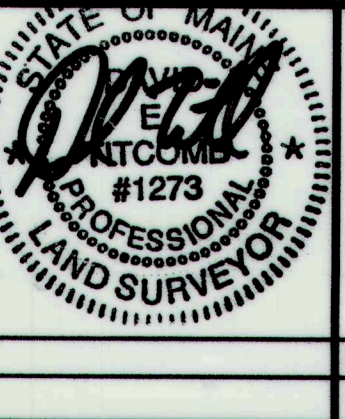
APPROVAL - TOWN OF
CUMBERLAND PLANNING BOARD

DATE: 1-17-12
CHAIRPERSON: [Signature]
[Signature]
[Signature]
[Signature]

REGISTRY BLOCK

STATE OF MAINE
CUMBERLAND COUNTY REGISTRY OF DEEDS
RECEIVED JANUARY 18, 2012
AT 2:59 PM A.M. AND RECORDED IN
PLAN BOOK 212 PAGE 18 ATTEST
REGISTRAR

REV	DATE	DESCRIPTION	REVISIONS
10	01.05.12	RESUBMITTED TO TOWN	
9	12.22.11	ADDED PHASE LIMITS, STREAM BUFFERS TO LOTS 33-58 AND DRAINAGE EASEMENTS TO LOTS 2 & 17	
8	11.28.11	PHASE 1 CONSTRUCTION SET	
7	09.29.11	REVISED UTILITY EASEMENTS TO LOTS 12 AND 36	
6	09.13.11	RESUBMITTED TO TOWN	
5	08.01.11	RESUBMITTED TO TOWN	
4	07.22.11	REVISED PER TOWN COMMENTS AND RESUBMITTED	
3	06.30.11	RESUBMITTED TO TOWN	
2	06.21.11	REVISED PER INTERNAL REVIEW	
1	05.31.11	SUBMITTED TO TOWN AND DEP	



PROJECT: VILLAGE GREEN
CUMBERLAND, MAINE
SHEET TITLE: AMENDED FINAL
SUBDIVISION PLAN
CLIENT - OWNER OF RECORD:
VILLAGE GREEN CUMBERLAND, LLC
P.O. BOX 3572, PORTLAND, ME 04104

DeLUCA-HOFFMAN
ASSOCIATES, INC.
778 MAIN STREET, SUITE 8
SOUTH PORTLAND, ME 04106
207.775.1121
WWW.DELUCAHOFFMAN.COM
DRAWN: CDD DATE: MAY 2011
DESIGNED: JAL SCALE: 1" = 100'
CHECKED: JAL JOB NO.: 2998
FILE NAME: 2998-SUBDIVISION PLAN
SHEET: C-4.0

LINE TABLE

ID	LENGTH	DIRECTION
L1	23.00'	N89° 07' 19"W
L2	37.85'	S30° 52' 41"W
L3	23.00'	S89° 07' 19"E
L4	15.00'	S89° 35' 02"E
L5	15.00'	S89° 35' 02"E
L6	38.76'	S00° 24' 58"W
L7	30.79'	N39° 25' 28"W
L8	105.42'	S36° 12' 16"E
L9	15.00'	S89° 06' 16"E
L10	15.00'	S89° 06' 16"E
L11	68.69'	N00° 53' 44"E
L12	68.69'	N00° 53' 44"E
L13	46.09'	S05° 36' 49"E
L14	23.00'	N68° 51' 39"E
L15	14.83'	N39° 25' 28"W
L16	15.96'	N39° 25' 28"W
L17	5.00'	N74° 20' 53"W
L18	33.50'	N26° 04' 51"W
L19	25.11'	N22° 07' 02"W
L20	16.18'	N38° 57' 47"E
L21	10.95'	N38° 57' 47"E
L22	4.24'	N38° 57' 47"E
L23	54.13'	N26° 32' 33"E
L24	13.00'	S63° 27' 27"E
L25	30.00'	N26° 32' 33"E
L26	43.00'	N63° 27' 27"W
L27	15.00'	N26° 32' 33"E
L28	7.32'	N38° 31' 50"E
L29	12.45'	N38° 31' 50"E
L30	27.35'	S56° 33' 37"W
L31	15.00'	S05° 57' 01"E
L32	10.90'	S84° 02' 59"W
L33	15.00'	S05° 57' 01"E
L34	10.90'	N84° 02' 59"E
L37	58.97'	S87° 20' 30"E
L38	23.06'	S71° 15' 17"E
L39	20.75'	S71° 15' 17"E
L40	30.23'	N38° 31' 50"E

CURVE TABLE

ID	RADIUS	LENGTH	DELTA
C1	15.00'	23.56'	090° 00' 00"
C2	215.00'	23.81'	008° 20' 47"
C3	215.00'	30.13'	008° 01' 49"
C4	99.00'	52.63'	030° 27' 43"
C5	69.00'	36.68'	030° 27' 43"
C6	250.00'	6.14'	001° 24' 29"
C7	310.00'	24.64'	004° 33' 17"
C8	85.00'	62.93'	042° 25' 01"
C9	115.00'	59.22'	029° 30' 13"
C10	115.00'	30.17'	015° 01' 47"
C11	85.00'	66.07'	044° 32' 00"
C13	275.00'	14.34'	002° 59' 16"
C14	15.00'	23.56'	090° 00' 00"
C15	15.00'	23.56'	090° 00' 00"
C16	15.00'	23.56'	090° 00' 00"
C17	15.00'	25.33'	096° 45' 32"
C18	15.00'	16.66'	063° 37' 36"
C19	30.00'	14.39'	027° 29' 22"
C20	115.00'	25.82'	012° 51' 57"
C21	115.00'	59.31'	029° 33' 04"
C22	250.00'	30.02'	008° 52' 47"
C23	250.00'	21.11'	004° 50' 17"



GRAPHIC SCALE
(IN FEET)
1 inch = 100 ft.

APPROVAL - TOWN OF CUMBERLAND PLANNING BOARD

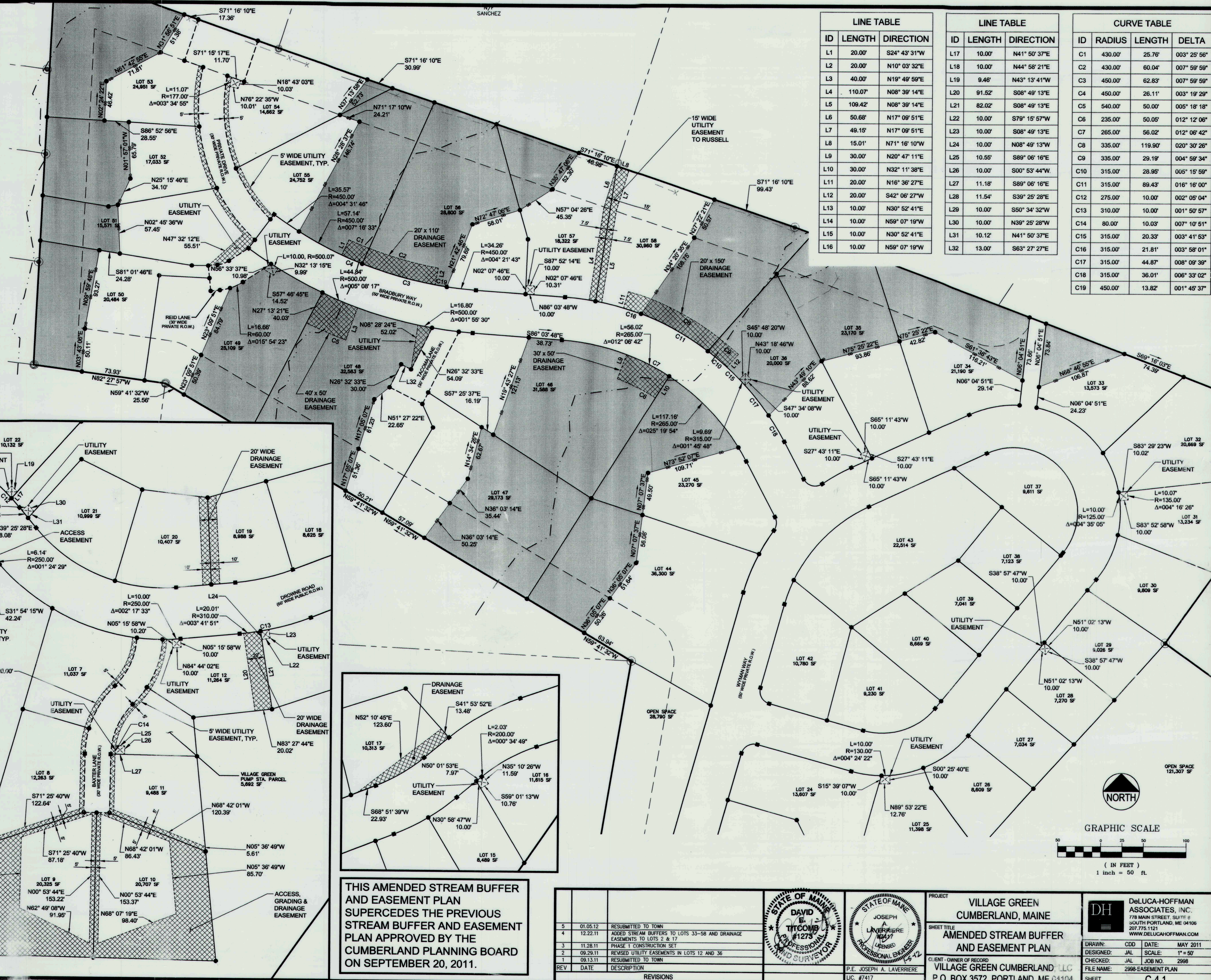
1-17-12
DATE
CHAIRPERSON
[Signature]
[Signature]
[Signature]

REGISTRY BLOCK

STATE OF MAINE
CUMBERLAND COUNTY REGISTRY OF DEEDS
RECEIVED JANUARY 18, 2012
AT 9:01 AM A.M. AND RECORDED IN
PLAN BOOK 212 PAGE 19 ATTEST
REGISTRAR

LEGEND

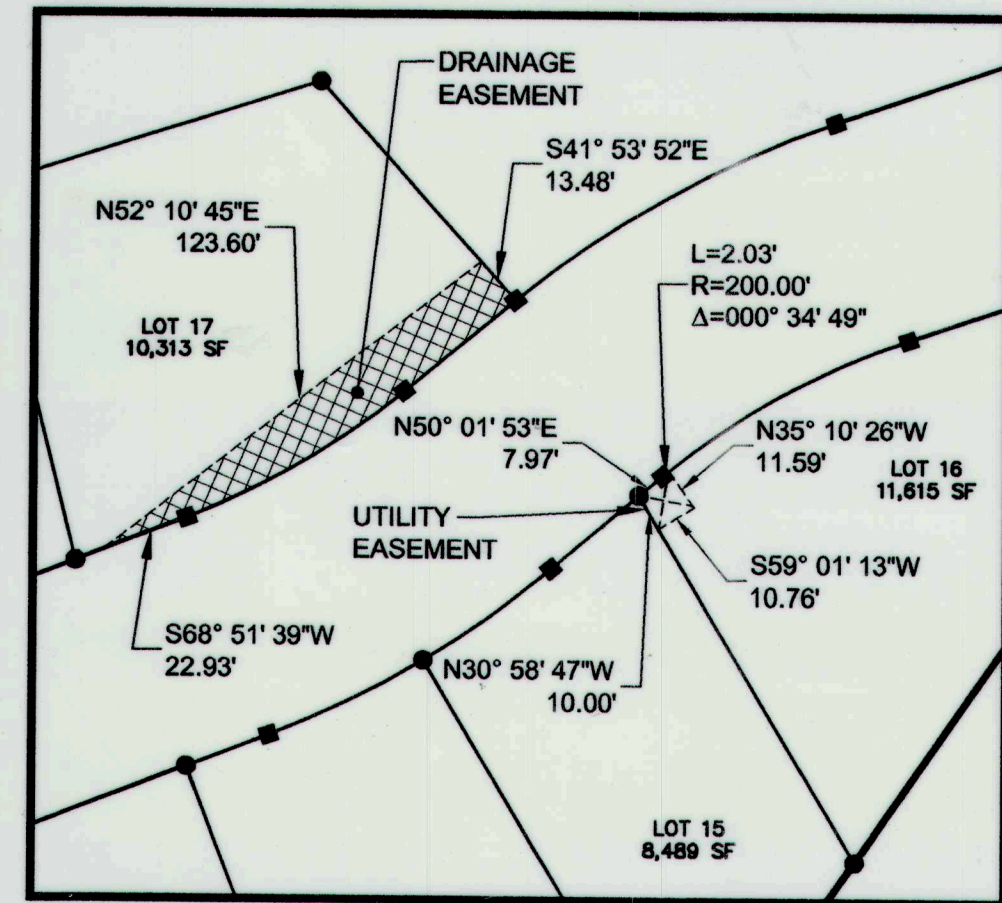
DESCRIPTION	
PROJECT BOUNDARY	---
EXISTING ABUTTING PROPERTY LINE/R.O.W. LINE	---
PROPOSED SUBDIVISION LOT LINE	---
PROPOSED RIGHT-OF-WAY LINE	---
PROPOSED PRIVATE DRIVE RIGHT-OF-WAY LINE	---
PROPOSED EASEMENT AREA	---
STREAM	---
STREAM BUFFER LINE	---
STREAM BUFFER AREA	---
IRON PIPE / IRON PIN TO BE SET	•



LINE TABLE		
ID	LENGTH	DIRECTION
L1	20.00'	S24° 43' 31"W
L2	20.00'	N10° 03' 32"E
L3	40.00'	N19° 49' 59"E
L4	110.07'	N08° 39' 14"E
L5	109.42'	N08° 39' 14"E
L6	50.68'	N17° 09' 51"E
L7	49.15'	N17° 09' 51"E
L8	15.01'	N71° 16' 10"W
L9	30.00'	N20° 47' 11"E
L10	30.00'	N32° 11' 38"E
L11	20.00'	N16° 36' 27"E
L12	20.00'	S42° 06' 27"W
L13	10.00'	N30° 52' 41"E
L14	10.00'	N59° 07' 19"W
L15	10.00'	N30° 52' 41"E
L16	10.00'	N59° 07' 19"W

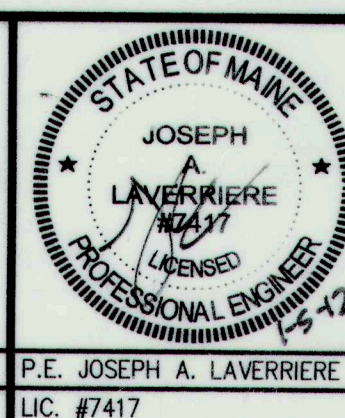
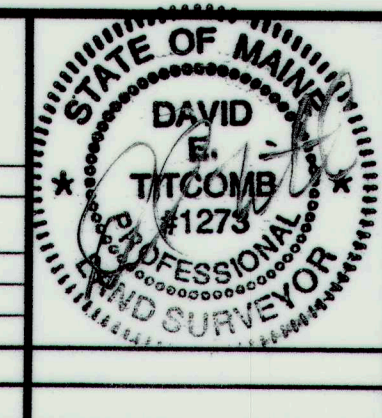
LINE TABLE		
ID	LENGTH	DIRECTION
L17	10.00'	N41° 50' 37"E
L18	10.00'	N44° 58' 21"E
L19	9.46'	N43° 13' 41"W
L20	91.52'	S08° 49' 13"E
L21	82.02'	S08° 49' 13"E
L22	10.00'	S79° 15' 57"W
L23	10.00'	S08° 49' 13"E
L24	10.00'	N08° 49' 13"W
L25	10.55'	S89° 06' 16"E
L26	10.00'	S00° 53' 44"W
L27	11.18'	S89° 06' 16"E
L28	11.54'	S39° 25' 28"E
L29	10.00'	S60° 34' 32"W
L30	10.00'	N39° 25' 28"W
L31	10.12'	N41° 50' 37"E
L32	13.00'	S63° 27' 27"E

CURVE TABLE			
ID	RADIUS	LENGTH	DELTA
C1	430.00'	25.76'	003° 25' 56"
C2	430.00'	60.04'	007° 59' 59"
C3	450.00'	62.83'	007° 59' 59"
C4	450.00'	26.11'	003° 19' 29"
C5	540.00'	50.00'	005° 18' 18"
C6	235.00'	50.05'	012° 12' 06"
C7	265.00'	56.02'	012° 06' 42"
C8	335.00'	119.90'	020° 30' 26"
C9	335.00'	29.19'	004° 59' 34"
C10	315.00'	28.95'	005° 15' 59"
C11	315.00'	89.43'	016° 16' 00"
C12	275.00'	10.00'	002° 05' 04"
C13	310.00'	10.00'	001° 50' 57"
C14	80.00'	10.03'	007° 10' 51"
C15	315.00'	20.33'	003° 41' 53"
C16	315.00'	21.81'	003° 58' 01"
C17	315.00'	44.87'	008° 09' 39"
C18	315.00'	36.01'	006° 33' 02"
C19	450.00'	13.82'	001° 45' 37"



THIS AMENDED STREAM BUFFER AND EASEMENT PLAN SUPERCEDES THE PREVIOUS STREAM BUFFER AND EASEMENT PLAN APPROVED BY THE CUMBERLAND PLANNING BOARD ON SEPTEMBER 20, 2011.

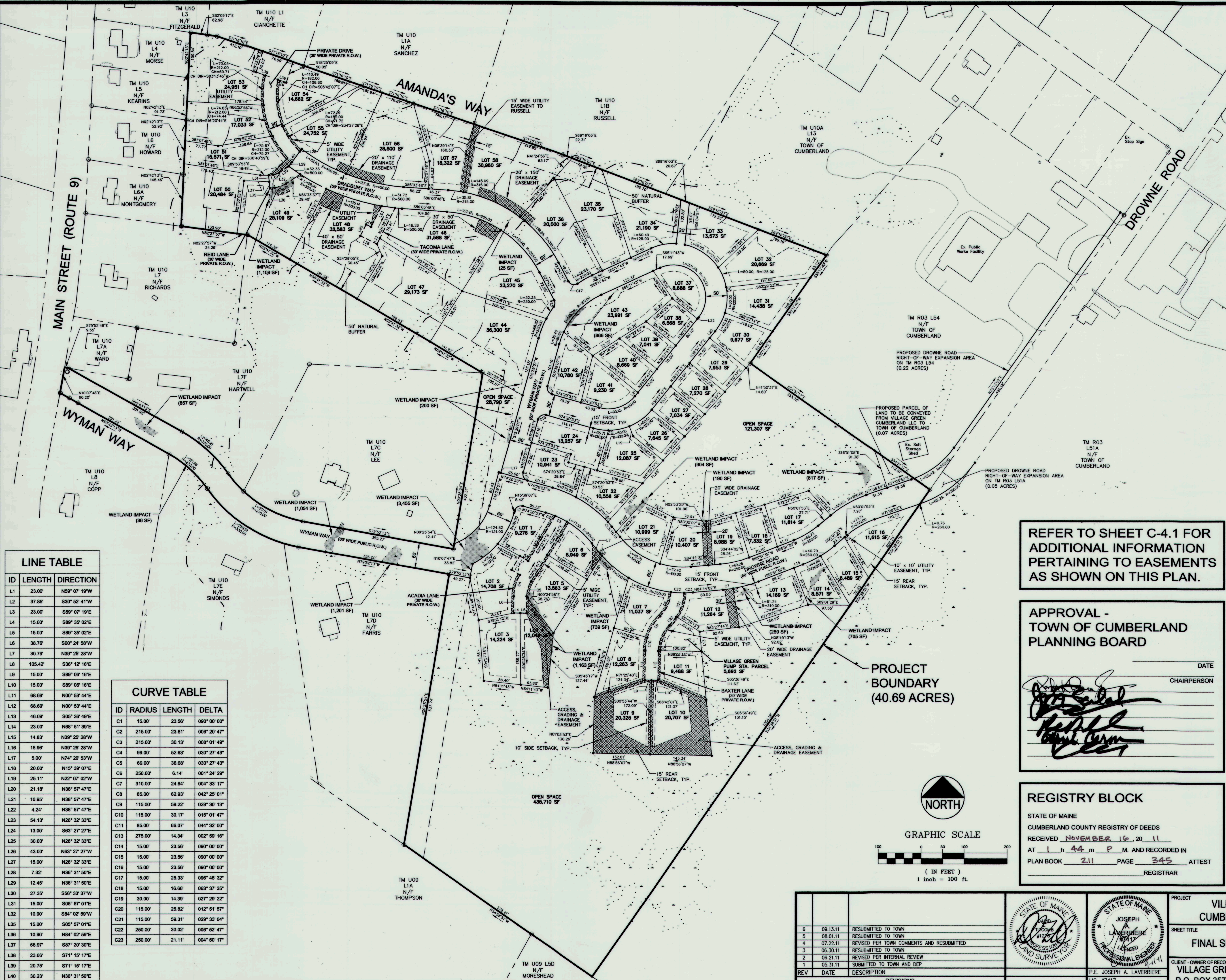
REV	DATE	DESCRIPTION
5	01.05.12	RESUBMITTED TO TOWN
4	12.22.11	ADDED STREAM BUFFERS TO LOTS 33-38 AND DRAINAGE EASEMENTS TO LOTS 2 & 17
3	11.28.11	PHASE 1 CONSTRUCTION SET
2	09.29.11	REVISED UTILITY EASEMENTS IN LOTS 12 AND 36
1	09.13.11	RESUBMITTED TO TOWN



PROJECT: VILLAGE GREEN CUMBERLAND, MAINE
SHEET TITLE: AMENDED STREAM BUFFER AND EASEMENT PLAN
CLIENT - OWNER OF RECORD: VILLAGE GREEN CUMBERLAND LLC
P.O. BOX 3572, PORTLAND, ME 04104

DeLUCA-HOFFMAN ASSOCIATES, INC.
778 MAIN STREET, SUITE 8
SOUTH PORTLAND, ME 04106
207.775.1121
WWW.DELUCAHOFFMAN.COM
DRAWN: CDD DATE: MAY 2011
DESIGNED: JAL SCALE: 1" = 50'
CHECKED: JAL JOB NO. 2998
FILE NAME: 2998-EASEMENT PLAN
SHEET C-4.1

R:\2998 Bateman Cumberland\CAD\CONSTRUCTION SETTING\2998-EASEMENT PLAN.dwg, 1/9/2012 11:43:37 AM, cdlbe



LEGEND

PROJECT BOUNDARY

EXISTING ADJUTING PROPERTY LINE/R.O.W. LINE

PROPOSED SUBDIVISION LOT LINE

PROPOSED RIGHT-OF-WAY LINE

PROPOSED PRIVATE DRIVE RIGHT-OF-WAY LINE

PROPOSED EASEMENT LINE

PROPOSED BUILDING SETBACK

EDGE OF WETLAND

STREAM

WETLAND IMPACT AREA

EXISTING ROADWAY MONUMENTATION

GRANITE OR PRECAST CONC. MON. TO BE SET

EXISTING PROPERTY MONUMENTATION

IRON PIPE / IRON PIN TO BE SET

- GENERAL NOTES**
1. OWNER OF RECORD

TOWN OF CUMBERLAND
290 TUTTLE ROAD
CUMBERLAND, MAINE 04021

2. PROJECT NAME / MUNICIPALITY

VILLAGE GREEN
CUMBERLAND, MAINE

3. APPLICANT / DEVELOPER

VILLAGE GREEN CUMBERLAND, LLC
P.O. BOX 3572
PORTLAND, MAINE 04104

4. ENGINEER / DESIGNER

DELUCA-HOFFMAN ASSOCIATES, INC.
778 MAIN STREET, SUITE 8
SOUTH PORTLAND, MAINE 04106

5. BOUNDARY AND TOPOGRAPHIC SURVEY

TICOMB ASSOCIATES, INC.
133 GRAY ROAD
FAIRBANKS, ALASKA 99701

6. WETLANDS DELINEATION

BOYLE ASSOCIATES
25 CUMBERLAND ROAD
GORHAM, ME 04038

7. PARCEL SIZE AND TAX ASSESSOR DATA

PROJECT SITE IS IDENTIFIED BY THE CUMBERLAND ASSESSOR'S OFFICE AS LOT 78 ON TAX MAP U10 CONTAINING 40.69 ACRES OF LAND, INCLUDING 1.48 ACRES IN WYMAN WAY RIGHT-OF-WAY TO MAIN STREET

8. ZONING

VILLAGE MIXED USE (VMU) WITH CONTRACT ZONING OVERLAY

9. USE

SINGLE FAMILY RESIDENTIAL USES (ATTACHED AND DETACHED) ARE PERMITTED USES WITHIN THE CONTRACT ZONING OVERLAY ZONE

10. CONTRACT OVERLAY ZONE DIMENSIONAL REQUIREMENTS

THE FOLLOWING MINIMUM LOT SIZES ARE REQUIRED:

USE	MIN. LOT SIZE (S.F.)	MIN. LOT AREA PER UNIT (S.F.)	MIN. LOT FRONTAGE (FT.)	MIN. LOT DEPTH (FT.)	MIN. LOT WIDTH (FT.)
DETACHED SINGLE FAMILY RESIDENTIAL STRUCTURE	5,000	5,000	15'	50'	50'
ATTACHED SINGLE FAMILY RESIDENTIAL STRUCTURE	5,000	5,000	15'	50'	50'

MAXIMUM NUMBER OF RESIDENTIAL UNITS ACCESSED FROM PRIVATE DRIVE IS LIMITED TO 6

THE FOLLOWING MINIMUM SETBACKS ARE REQUIRED FOR ALL STRUCTURES:

STRUCTURE TYPE	FRONT	SIDE	REAR
DETACHED SINGLE FAMILY RESIDENTIAL STRUCTURE AND GARAGE	15'	10'	15'
ATTACHED SINGLE FAMILY RESIDENTIAL STRUCTURE AND GARAGE	15'	10'	15'
DETACHED SHED	5'	5'	5'
DRIVEWAYS	5'	5'	5'

* SETBACK BETWEEN FACE OF GARAGE AND SIDEWALK SHALL BE MINIMUM DISTANCE OF 20'

** SIDE SETBACK REDUCED TO 0' ALONG COMMON SIDELINE BETWEEN ATTACHED RESIDENTIAL STRUCTURES AND GARAGES.

- APPROVAL - TOWN OF CUMBERLAND PLANNING BOARD**
- DATE _____
- CHAIRPERSON _____
- REGISTRY BLOCK**
- STATE OF MAINE
- CUMBERLAND COUNTY REGISTRY OF DEEDS
- RECEIVED NOVEMBER 16, 2011
- AT 1:44 P.M. AND RECORDED IN
- PLAN BOOK 211 PAGE 345 ATTEST
- REGISTRAR _____
11. NET RESIDENTIAL DENSITY CALCULATIONS:
- | | |
|---------------------------------------|----------------|
| TOTAL PARCEL AREA | 40.69 ACRES |
| MINUS: | |
| 15% FOR ROADS AND PARKING | 6.10 ACRES |
| ISOLATED LAND AREAS | 0.40 ACRES |
| OTHER UNDEVELOPABLE AREAS | 0.40 ACRES |
| WETLANDS | 6.53 ACRES |
| 100-YEAR FLOODPLAIN | 0.40 ACRES |
| LAND WITH ROW OR EASEMENT | 1.11 ACRES |
| RESOURCE PROTECTION DISTRICT | 0.40 ACRES |
| NET RESIDENTIAL ACREAGE | 20.75 ACRES |
| RESIDENTIAL DENSITY (5,000 S.F./UNIT) | 180 RES. UNITS |
12. A PRECONSTRUCTION MEETING BETWEEN THE TOWN OF CUMBERLAND AND THE DEVELOPER'S CONTRACTOR IS REQUIRED PRIOR TO THE START OF ANY WORK.
13. THE PERFORMANCE GUARANTEE REQUIRED BY SECTION 4.4.0.7 OF THE TOWN OF CUMBERLAND SUBDIVISION ORDINANCE SHALL BE FURNISHED IN AMOUNT AND IN A FORM ACCEPTABLE TO AND APPROVED BY THE TOWN PRIOR TO START OF ANY WORK.
14. THE WETLAND AREAS SHOWN ON THE INDIVIDUAL LOTS SHALL NOT BE DISTURBED BEYOND THE LIMITS IDENTIFIED ON THE PLANS AND APPROVED BY THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THE ARMY CORPS OF ENGINEERS. NO ADDITIONAL WETLAND IMPACTS MAY OCCUR ON THE INDIVIDUAL LOTS BEYOND THAT SHOWN ON THE PLANS, UNLESS THE REQUIRED PERMITS ARE OBTAINED. THE INDIVIDUAL LOTS ARE NOT ELIGIBLE FOR THE 4.30' WETLAND IMPACT EXEMPTION.
15. ALL LOT OWNERS SHALL BE MEMBERS OF AN ASSOCIATION THAT WILL BE RESPONSIBLE FOR MAINTAINING ALL STORMWATER MANAGEMENT AND TREATMENT MEASURES AND ASSOCIATED PIPES AND STRUCTURES, PRIVATE ROADS, PRIVATE DRIVES, AND PUBLIC WALKING TRAILS WITHIN THE DESIGNATED OPEN SPACE AREAS.
16. DESIGNATED OPEN SPACE AREAS SHALL BE OPEN TO THE GENERAL PUBLIC.
17. FURTHER LOT DIVISION SHALL BE PROHIBITED WITHOUT FURTHER PLANNING BOARD APPROVAL.
18. ALL LOTS ARE SUBJECT TO THE CONDITIONS OF THE FOLLOWING PERMITS:
- SITE LOCATION OF DEVELOPMENT ACT PERMIT # L-25376-13-A-N
- NATURAL RESOURCE PROTECTION ACT PERMIT # L-25376-13-B-N
- U.S. ARMY CORPS OF ENGINEERS PERMIT #

LINE TABLE

ID	LENGTH	DIRECTION
L1	23.00'	N59° 07' 19"W
L2	37.85'	S30° 52' 41"W
L3	23.00'	S59° 07' 19"E
L4	15.00'	S89° 35' 02"E
L5	15.00'	S89° 35' 02"E
L6	38.76'	S00° 24' 56"W
L7	30.79'	N39° 25' 28"W
L8	105.42'	S36° 12' 16"E
L9	15.00'	S89° 06' 16"E
L10	15.00'	S89° 06' 16"E
L11	68.69'	N00° 53' 44"E
L12	68.69'	N00° 53' 44"E
L13	46.09'	S05° 36' 49"E
L14	23.00'	N68° 51' 39"E
L15	14.83'	N39° 25' 28"W
L16	15.96'	N39° 25' 28"W
L17	5.00'	N74° 20' 53"W
L18	20.00'	N15° 39' 07"E
L19	25.11'	N22° 07' 02"W
L20	21.16'	N36° 57' 47"E
L21	10.95'	N36° 57' 47"E
L22	4.24'	N36° 57' 47"E
L23	54.13'	N26° 32' 33"E
L24	13.00'	S63° 27' 27"E
L25	30.00'	N26° 32' 33"E
L26	43.00'	N63° 27' 27"W
L27	15.00'	N26° 32' 33"E
L28	7.32'	N36° 31' 50"E
L29	12.45'	N36° 31' 50"E
L30	27.35'	S56° 33' 37"W
L31	15.00'	S05° 57' 01"E
L32	10.90'	S84° 02' 59"W
L33	15.00'	S05° 57' 01"E
L34	10.90'	N84° 02' 59"E
L35	58.97'	S87° 20' 30"E
L36	23.06'	S71° 15' 17"E
L37	20.75'	S71° 15' 17"E
L38	30.23'	N36° 31' 50"E

CURVE TABLE

ID	RADIUS	LENGTH	DELTA
C1	15.00'	23.56'	090° 00' 00"
C2	215.00'	23.81'	006° 20' 47"
C3	215.00'	30.13'	006° 01' 49"
C4	99.00'	52.63'	030° 27' 43"
C5	69.00'	36.68'	030° 27' 43"
C6	250.00'	6.14'	001° 24' 28"
C7	310.00'	24.64'	004° 33' 17"
C8	85.00'	62.93'	042° 26' 01"
C9	115.00'	59.22'	029° 30' 13"
C10	115.00'	30.17'	015° 01' 47"
C11	85.00'	66.07'	044° 32' 00"
C12	275.00'	14.34'	002° 59' 16"
C13	15.00'	23.56'	090° 00' 00"
C14	15.00'	23.56'	090° 00' 00"
C15	15.00'	23.56'	090° 00' 00"
C16	15.00'	23.56'	090° 00' 00"
C17	15.00'	25.33'	096° 45' 32"
C18	15.00'	16.66'	063° 37' 35"
C19	30.00'	14.39'	027° 29' 22"
C20	115.00'	25.82'	012° 51' 57"
C21	115.00'	59.31'	026° 33' 04"
C22	250.00'	30.02'	006° 52' 47"
C23	250.00'	21.11'	004° 50' 17"

REFER TO SHEET C-4.1 FOR ADDITIONAL INFORMATION PERTAINING TO EASEMENTS AS SHOWN ON THIS PLAN.

APPROVAL - TOWN OF CUMBERLAND PLANNING BOARD

DATE _____

CHAIRPERSON _____

REGISTRY BLOCK

STATE OF MAINE

CUMBERLAND COUNTY REGISTRY OF DEEDS

RECEIVED NOVEMBER 16, 2011

AT 1:44 P.M. AND RECORDED IN

PLAN BOOK 211 PAGE 345 ATTEST

REGISTRAR _____

6 09.13.11 RESUBMITTED TO TOWN

5 08.01.11 RESUBMITTED TO TOWN

4 07.22.11 REVISED PER TOWN COMMENTS AND RESUBMITTED

3 06.30.11 REVISED PER TOWN COMMENTS AND RESUBMITTED

2 06.21.11 REVISED PER INTERNAL REVIEW

1 05.31.11 SUBMITTED TO TOWN AND DEP

REV DATE DESCRIPTION

STATE OF MAINE
JOSEPH A. LAVERRIERE
PROFESSIONAL LAND SURVEYOR
LICENSED
P.E. JOSEPH A. LAVERRIERE
LIC. #7417

STATE OF MAINE
JOSEPH A. LAVERRIERE
PROFESSIONAL ENGINEER
LICENSED
P.E. JOSEPH A. LAVERRIERE
LIC. #7417

PROJECT
VILLAGE GREEN
CUMBERLAND, MAINE

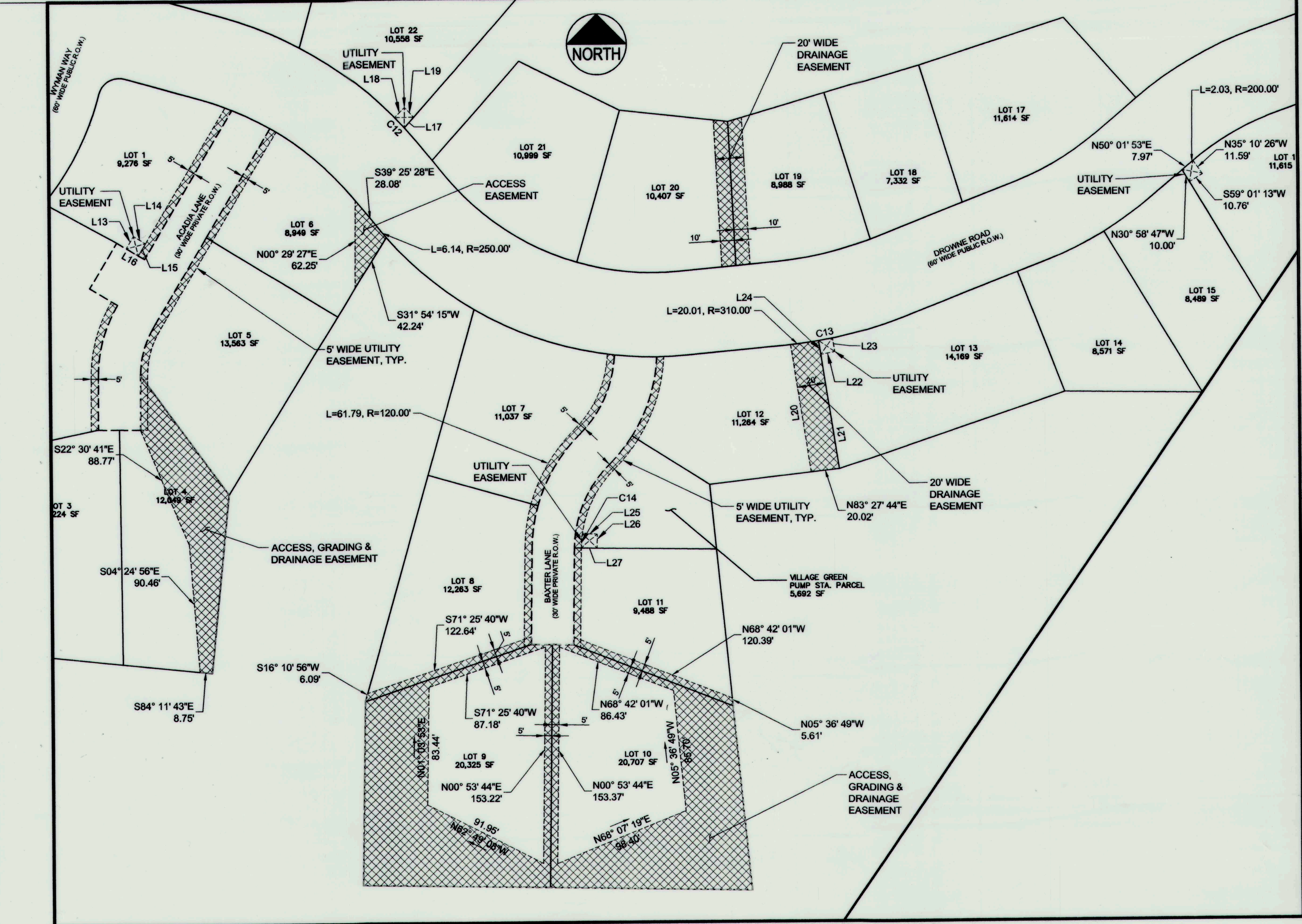
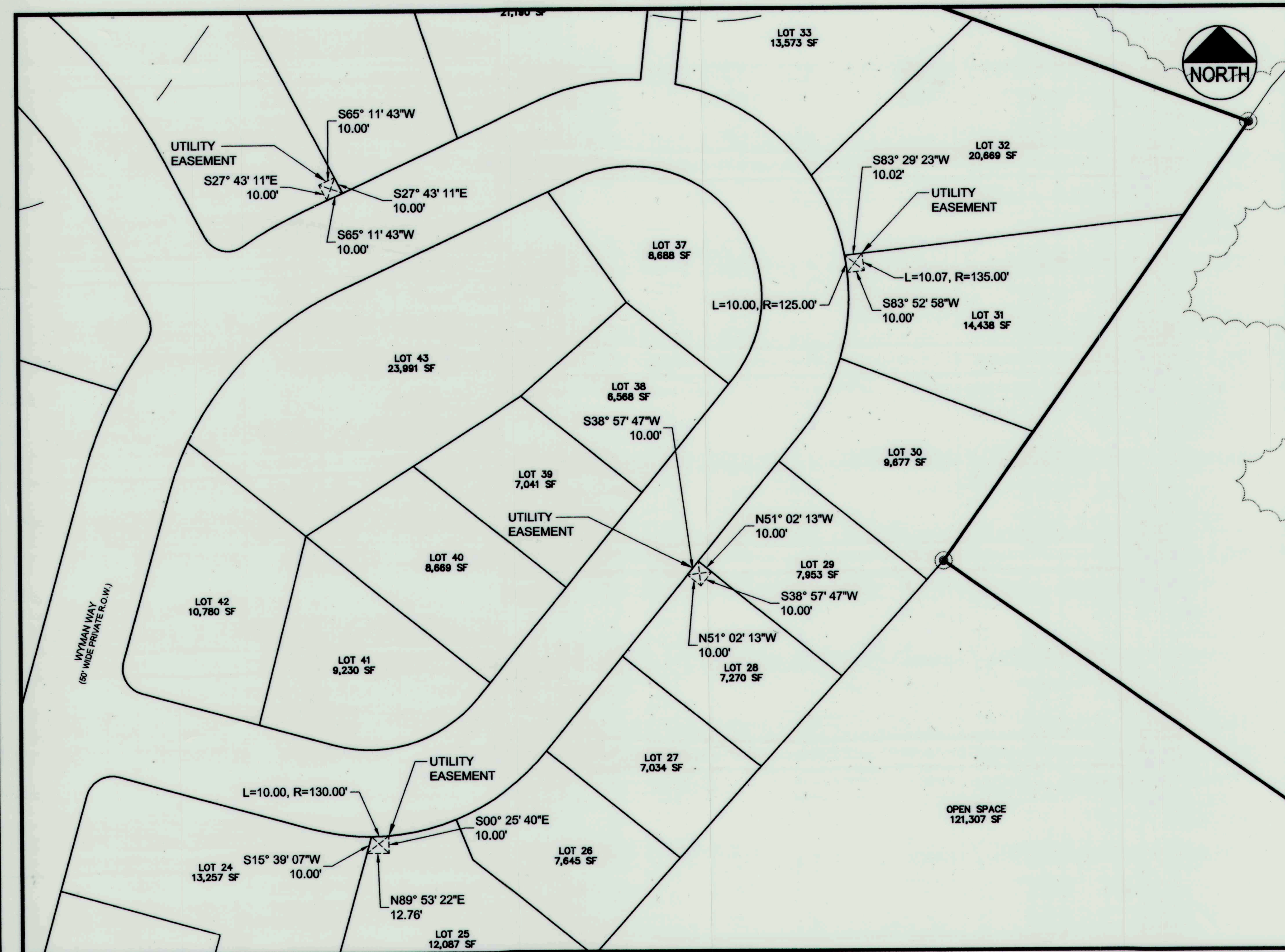
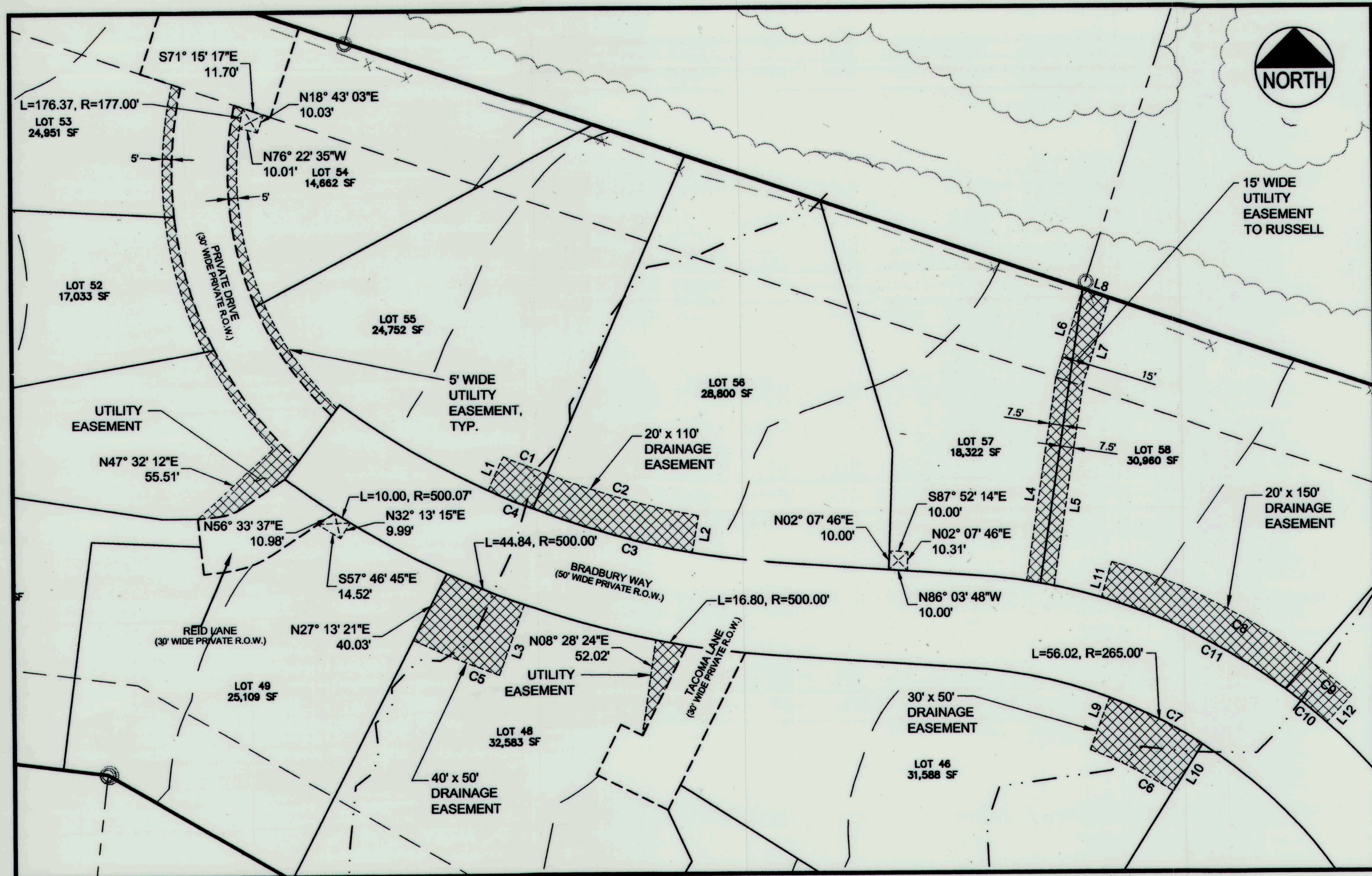
SHEET TITLE
FINAL SUBDIVISION PLAN

CUSTOMER
VILLAGE GREEN CUMBERLAND, LLC
P.O. BOX 3572, PORTLAND, ME 04104

DESIGNED: JAL
CHECKED: JAL
FILE NAME: 2998-SUBDIVISION PLAN
SHEET C-4.0

DATE: MAY 2011
SCALE: 1" = 100'
JOB NO. 2998
C-4.0

R:\2998 Bateman Cumberland\CAD\PERMIT SET\DWG\2998-EASEMENT PLAN.dwg, C-4.1 EASEMENT PLAN, 9/20/2011 11:52:46 AM, ddube



LINE TABLE		
ID	LENGTH	DIRECTION
L1	20.00	S24° 43' 31.40"W
L2	20.00	N10° 03' 31.52"E
L3	40.00	N19° 49' 59.10"E
L4	110.07	N08° 39' 13.75"E
L5	109.42	N08° 39' 13.75"E
L6	50.68	N17° 09' 50.76"E
L7	49.15	N17° 09' 50.76"E
L8	15.01	N71° 16' 10"W
L9	30.00	N20° 47' 11.30"E
L10	30.00	N32° 11' 38.08"E
L11	20.00	N16° 36' 26.88"E
L12	20.00	S42° 06' 27.24"W
L13	10.00	N30° 52' 41.24"E
L14	10.00	N59° 07' 18.76"W

LINE TABLE		
ID	LENGTH	DIRECTION
L15	10.00	N30° 52' 41.24"E
L16	10.00	N59° 07' 18.76"W
L17	10.00	N41° 50' 36.78"E
L18	10.00	N44° 58' 21.32"E
L19	9.46	N43° 13' 40.54"W
L20	91.52	S08° 49' 12.81"E
L21	92.02	S08° 49' 12.81"E
L22	10.00	S79° 15' 57.41"W
L23	10.00	S08° 49' 12.81"E
L24	10.00	N08° 49' 12.81"W
L25	10.55	S89° 06' 15.98"E
L26	10.00	S00° 53' 44.02"W
L27	11.18	S89° 06' 15.98"E

CURVE TABLE		
ID	RADIUS	LENGTH
C1	430.00	25.76
C2	430.00	60.04
C3	450.00	62.83
C4	450.00	26.11
C5	540.00	50.00
C6	235.00	50.05
C7	265.00	56.02
C8	335.00	119.90
C9	335.00	29.19
C10	315.00	28.95
C11	315.00	111.24
C12	275.00	10.00
C13	310.00	10.00
C14	80.00	10.03

APPROVAL -
TOWN OF CUMBERLAND
PLANNING BOARD

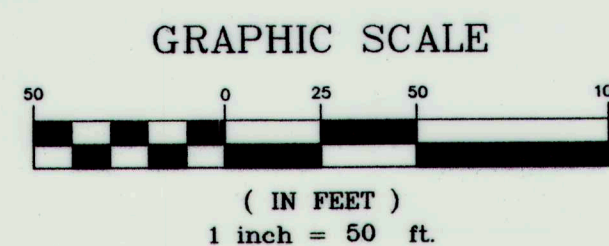
DATE _____

CHAIRPERSON _____

REGISTRY BLOCK

STATE OF MAINE
CUMBERLAND COUNTY REGISTRY OF DEEDS

RECEIVED NOVEMBER 16, 20 11
AT 1 h 45 m P M. AND RECORDED IN
PLAN BOOK 211 PAGE 346 ATTEST
REGISTRAR _____



1	09.13.11	RESUBMITTED TO TOWN
REV	DATE	DESCRIPTION
REVISIONS		

STATE OF MAINE
J. JOSEPH A. LAVERRIERE
PROFESSIONAL SURVEYOR
LICENSE #7417

STATE OF MAINE
JOSEPH A. LAVERRIERE
PROFESSIONAL ENGINEER
LICENSE #7417

PROJECT: VILLAGE GREEN CUMBERLAND, MAINE
SHEET TITLE: EASEMENT PLAN
CLIENT - OWNER OF RECORD: VILLAGE GREEN CUMBERLAND, LLC
P.O. BOX 3572, PORTLAND, ME 04104

DRAWN: CDD DATE: MAY 2011
DESIGNED: JAL SCALE: 1" = 50'
CHECKED: JAL JOB NO. 2998
FILE NAME: 2998-EASEMENT PLAN
SHEET C-4.1

SUBDIVISION APPLICATION FOR VILLAGE GREEN

ZONING

CONTRACT ZONE
PHASE 1 OF THE VILLAGE GREEN
REVITALIZATION MASTER PLAN

TAX ASSESSOR'S
MAP + LOT NUMBER

MAP LOT
U10 7B

APPLICANT + DEVELOPER:

VILLAGE GREEN
CUMBERLAND L.L.C.

P.O. BOX 3572
PORTLAND, MAINE 04104
(207) 772-2992

RECORD OWNER:

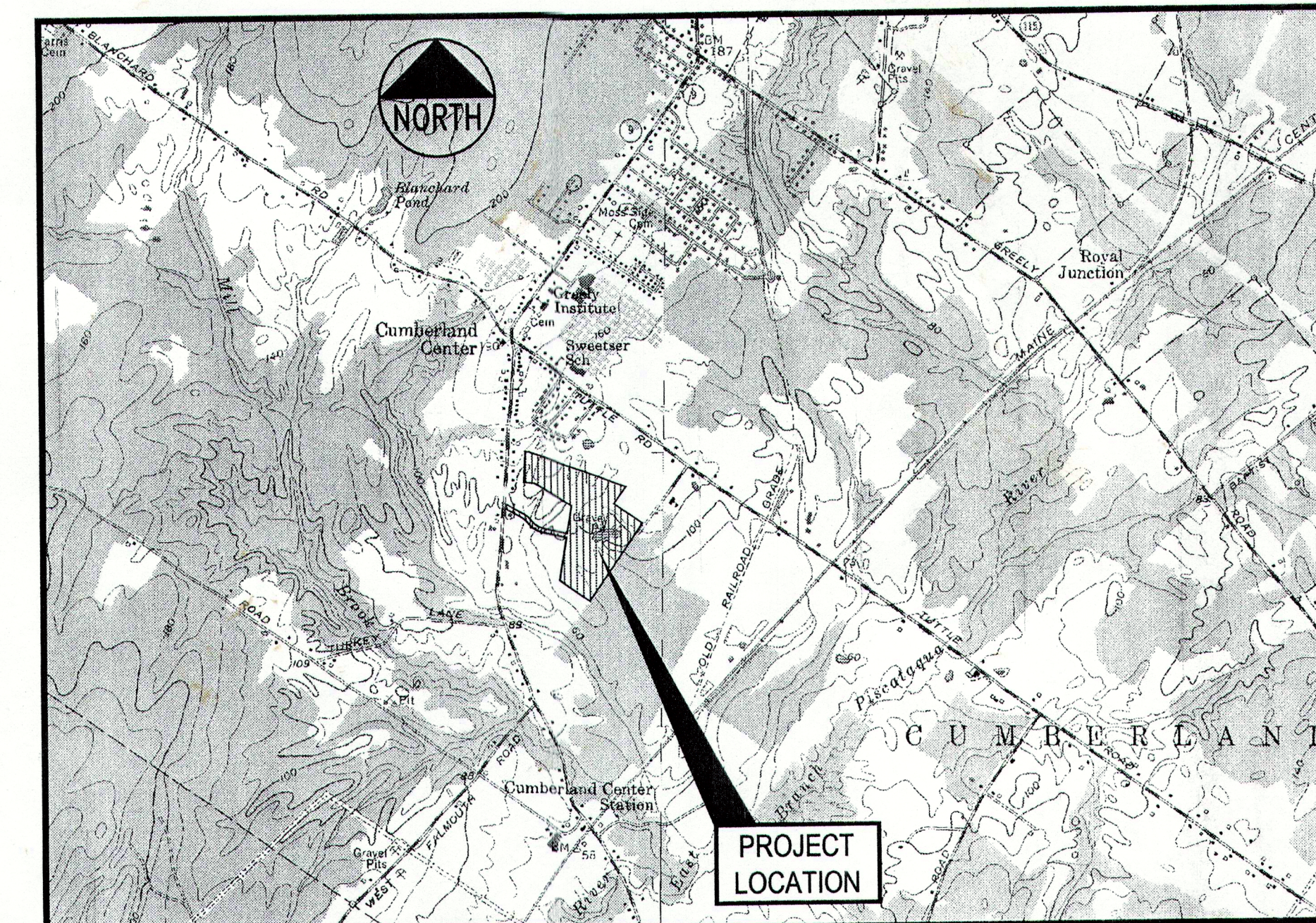
TOWN OF CUMBERLAND

290 TUTTLE ROAD
CUMBERLAND, MAINE 04021
(207) 829-2224

CUMBERLAND, MAINE
WYMAN WAY AND DROWNE ROAD

CONSTRUCTION SET
PHASE 1

VILLAGE GREEN REVITALIZATION MASTER PLAN
MAY 2011



LOCATION MAP

SCALE: 1" = 2000' ±

INDEX

SHEET	DESCRIPTION
C-1.0	COVER
C-2.0	GENERAL NOTES AND LEGEND
C-3.0	BOUNDARY SURVEY PLAN
C-3.1	OVERALL EXISTING CONDITIONS PLAN
C-4.0	SUBDIVISION PLAN
C-4.1	EASEMENT PLAN
C-5.0	OVERALL LAYOUT PLAN
C-6.0	OVERALL ROADWAY & STORMWATER BASIN GRADING PLAN
C-6.1*	OVERALL CONCEPTUAL LOT GRADING PLAN
C-7.0	OVERALL UTILITY PLAN
C-8.0	LANDSCAPE PLAN (1 OF 4)
C-8.1	LANDSCAPE PLAN (2 OF 4)
C-8.2	LANDSCAPE PLAN (3 OF 4)
C-8.3	LANDSCAPE PLAN (4 OF 4)
C-9.0	OVERALL ROADWAY & STORMWATER BASIN EROSION CONTROL PLAN
C-9.1*	OVERALL CONCEPTUAL LOT EROSION CONTROL PLAN
C-9.2	EROSION & SEDIMENT CONTROL NARRATIVE
C-9.3	EROSION & SEDIMENT CONTROL DETAILS 1 OF 2
C-9.4	EROSION & SEDIMENT CONTROL DETAILS 2 OF 2
C-10.0	PAVEMENT, CURB & SIDEWALK DETAILS
C-10.1	PAVEMENT, CURB & SIDEWALK DETAILS
C-10.2	PAVEMENT, CURB & SIDEWALK DETAILS
C-10.3	STORM DRAIN DETAILS
C-10.4	STANDARD WATER DETAILS 1 OF 2
C-10.5	STANDARD WATER DETAILS 2 OF 2
C-10.6	SEWER TRENCH DETAILS
C-10.7	SEWER MANHOLE DETAILS
C-10.8	SEWAGE PUMP STATION DETAILS
C-10.9	PRECAST CONCRETE BOX CULVERT DETAILS
C-10.10	RETAINING WALLS & FENCE DETAILS
C-11.0	SOIL FILTER AREAS PLANS & SECTIONS
C-11.1	FILTERRA / STORMTECH ISOLATOR ROW PLANS & DETAILS
C-11.2	STREAM CROSSING PLAN VIEWS AND PROFILES
P-1	WYMAN WAY STA 0+00 TO STA 10+25
P-2	WYMAN WAY STA 10+25 TO STA 19+50
P-3	WYMAN WAY STA 19+50 TO STA 27+48.99
P-4	DROWNE ROAD STA 30+00 TO STA 39+70
P-5	DROWNE ROAD STA 39+70 TO STA 48+00
P-6	PRIVATE ROAD STA 50+00 TO STA 61+00
P-7	PRIVATE DRIVE 1 AND PRIVATE DRIVE 2

*NOT INCLUDED IN PHASE 1 CONSTRUCTION SET

UTILITIES

WATER :	PORTLAND WATER DISTRICT 225 DOUGLASS STREET P.O. BOX 3553 PORTLAND, MAINE 04104-3553 TEL : (207) 774-5961
SEWER :	PORTLAND WATER DISTRICT 225 DOUGLASS STREET P.O. BOX 3553 PORTLAND, MAINE 04104-3553 TEL : (207) 774-5961
ELECTRIC :	CENTRAL MAINE POWER COMPANY 162 CANCO ROAD PORTLAND, MAINE 04103 TEL : (800) 565-0121
TELEPHONE :	FAIRPOINT COMMUNICATIONS 5 DAVIS FARM ROAD PORTLAND, MAINE 04103 TEL : (207) 797-1866
CABLE TV:	TIME WARNER CABLE 118 JOHNSON ROAD PORTLAND, MAINE 04102 TEL : (207) 253-2325
CALL BEFORE YOU DIG: (DIG SAFE)	1-888-344-7233 (1-888-DIG-SAFE)

PERMITS

TYPE:	ISSUING AGENCY:	DATE OF APPLICATION:	STATUS:
LOCAL MAJOR SUBDIVISION	TOWN OF CUMBERLAND 290 TUTTLE ROAD CUMBERLAND, MAINE 04021	MAY 31, 2011	PENDING
BUILDING PERMITS	TOWN OF CUMBERLAND 290 TUTTLE ROAD CUMBERLAND, MAINE 04021	TO BE FILED PRIOR TO CONSTRUCTION	TO BE FILED BY INDIVIDUAL LOT OWNER.
STATE SITE LOCATION OF DEVELOPMENT PERMIT	MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION 312 CANCO ROAD PORTLAND, MAINE 04103	MAY 31, 2011	PENDING
STORMWATER PERMIT	MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION 312 CANCO ROAD PORTLAND, MAINE 04103	MAY 31, 2011	PENDING
MAINE CONSTRUCTION GENERAL PERMIT	MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION 312 CANCO ROAD PORTLAND, MAINE 04103	MAY 31, 2011	PENDING
NRPA WETLAND ALTERATION PERMIT	MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION 312 CANCO ROAD PORTLAND, MAINE 04103	MAY 31, 2011	PENDING
FEDERAL ARMY CORPS OF ENGINEERS SECTION 404 PERMIT	U.S. ARMY CORPS OF ENGINEERS RR2 BOX 1855 MANCHESTER, MAINE 04351 (207) 623-8367	MAY 31, 2011	PENDING

PREPARED BY:

CIVIL ENGINEER:
DeLuca-Hoffman Associates, Inc.

778 MAIN STREET, SUITE 8
SOUTH PORTLAND, MAINE 04106
(207) 775-1121

TRAFFIC ENGINEER:
Traffic Solutions
235 BANCROFT STREET
PORTLAND, MAINE 04102
(207) 774-3603

SURVEYORS:
Titcomb Associates
133 GRAY ROAD
FALMOUTH, MAINE 04105
(207) 797-9199

WETLAND CONSULTANT:
Boyle Associates, Inc.
25 DUNDEE ROAD
GORHAM, MAINE 04038
(207) 591-5220

LANDSCAPE ARCHITECTURAL CONSULTANT:
Tony Muench Landscape Architect
94 COMMERCIAL STREET
PORTLAND, MAINE 04101-4738
(207) 761-6621

C 10.2- Speed Table
22' x 22'
Curb SW side
No curb opposite side

7 11.28.11 PHASE 1 CONSTRUCTION SET			PROJECT VILLAGE GREEN CUMBERLAND, MAINE	
6 09.13.11 RESUBMITTED TO TOWN			SHEET TITLE COVER	
5 08.01.11 RESUBMITTED TO TOWN			CLIENT VILLAGE GREEN CUMBERLAND, LLC	
4 07.22.11 REVISED PER TOWN COMMENTS AND RESUBMITTED				
3 06.30.11 RESUBMITTED TO TOWN				
2 06.21.11 REVISED PER INTERNAL REVIEW				
1 05.31.11 SUBMITTED TO TOWN AND DEP				
REV	DATE	DESCRIPTION		
REVISIONS				

GENERAL NOTES:

1. THIS PROJECT WILL BE SUBJECT TO THE TERMS AND CONDITIONS OF ALL PERMITS ISSUED BY THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION, LOCAL UTILITY COMPANIES AND THE TOWN OF CUMBERLAND.
2. ALL REQUIRED AND NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR THE ELEVATION OF THE EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AND DIG SAFE AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
4. MAINTENANCE OF EROSION CONTROL MEASURES IS OF PARAMOUNT IMPORTANCE TO THE APPLICANT AND THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL EROSION CONTROL MEASURES SHOWN ON THE PLANS. THE EROSION CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL EROSION CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ONSITE INSPECTIONS OF THE OWNER, THEIR REPRESENTATIVES, OR THE TOWN AT NO ADDITIONAL COST TO THE OWNER.
5. ALL MATERIAL SCHEDULES SHOWN ON THE PLANS ARE FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL PREPARE HIS OWN MATERIAL SCHEDULES BASED UPON HIS PLAN REVIEW. ALL SCHEDULES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS OR PERFORMING WORK.
6. ALL MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO THE MOST STRINGENT OF THE MAINE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, THE PROJECT SPECIFICATIONS, UTILITY COMPANY SPECIFICATIONS AND TOWN OF CUMBERLAND REQUIREMENTS.

SITE LAYOUT NOTES:

1. ALL STOP SIGNS INDICATED ON THE LAYOUT PLANS ARE TO MEET ALL REQUIREMENTS & STANDARDS OF THE MAINE DEPARTMENT OF TRANSPORTATION.
2. ALL CURB SHALL CONFORM TO THE PROJECT SPECIFICATIONS AND DETAILS CONTAINED IN THE PLAN SET.
3. ALL DIMENSIONING, UNLESS NOTED OTHERWISE, IS TO THE FACE OF CURB OR THE EDGE OF PAVEMENT.

GRADING AND DRAINAGE NOTES:

1. ALL STORM DRAIN PIPE SHALL BE SMOOTH BORE INTERIOR PROVIDING A MANNINGS ROUGHNESS COEFFICIENT OF n = 0.012 OR LESS.
2. THE PROJECT ELEVATIONS ARE BASED UPON U.S.G.S. VERTICAL DATUM. THE HORIZONTAL & VERTICAL CONTROL FOR THE PROJECT WAS PERFORMED BY TITCOMB ASSOCIATES, OF FALMOUTH, MAINE.
3. ALL WASTE SOIL MATERIAL EXCAVATED FROM THE PROJECT SITE SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
4. ALL LOAM SALVAGED FROM THE SITE DURING THE INITIAL SITE PREPARATION WORK SHALL BE SCREENED AND STOCKPILED. THE STOCKPILED LOAM SHALL BE USED TO RELOAM THE PROPOSED LAWN AREAS. ANY SURPLUS LOAM SHALL REMAIN THE PROPERTY OF THE OWNER.

EROSION CONTROL NOTES:

1. PRIOR TO BEGINNING ANY LAND DISTURBING ACTIVITIES, THE CONTRACTOR SHALL INSTALL THE PERIMETER SILT FENCES AND THE CONSTRUCTION ENTRANCES ASSOCIATED WITH THAT PHASE OF THE PROJECT.
2. ALL GROUND AREAS GRADED FOR CONSTRUCTION WILL BE GRADED, LOAMED, SEEDED AND MULCHED AS SOON AS POSSIBLE. PERMANENT SEED MIXTURE SHALL CONFORM TO THE SEEDING PLAN CONTAINED IN THE EROSION CONTROL PROJECT PREPARED FOR THIS PROJECT.
3. PRIOR TO PAVING, THE CONTRACTOR SHALL FLUSH SILT FROM ALL STORM LINES.
4. SILT FENCES SHALL BE INSPECTED, REPAIRED AND CLEANED AS NOTED IN THE EROSION CONTROL NOTES SHOWN ON THE EROSION CONTROL DETAIL SHEET.
5. THE CONTRACTOR SHALL REPAIR AND ADD STONE TO THE CONSTRUCTION ENTRANCE AS IT BECOMES SATURATED WITH MUD TO ENSURE THAT IT WORKS AS PLANNED DURING CONSTRUCTION, AND SHALL KEEP DROWNE ROAD AND WYMAN WAY CLEAR OF DIRT AND MUD.
6. SILT REMOVED FROM AROUND INLETS AND BEHIND THE SILT FENCES SHALL BE PLACED ON A TOPSOIL STOCKPILE AND MIXED INTO TOPSOIL FOR USE IN LANDSCAPING OPERATIONS.
7. LAND DISTURBING ACTIVITIES SHALL BE ACCOMPLISHED IN A MANNER AND SEQUENCE THAT CAUSES THE LEAST PRACTICAL DISTURBANCE OF THE SITE.
8. THE CONTRACTOR IS CAUTIONED THAT FAILURE TO COMPLY WITH THE SEQUENCE OF CONSTRUCTION, EROSION / SEDIMENT CONTROL PLAN, AND OTHER PERMIT REQUIREMENTS MAY RESULT IN MONETARY PENALTIES. THE CONTRACTOR SHALL BE ASSESSED ALL SUCH PENALTIES AT NO COST TO THE OWNER OR PERMITTEE.

UTILITY NOTES:

1. ALL WATER UTILITY MATERIALS AND INSTALLATION METHODS SHALL CONFORM TO THE PORTLAND WATER DISTRICT SPECIFICATIONS. ALL WATER DISTRIBUTION PIPING SHALL BE CLASS 52 DUCTILE IRON PIPE. DISINFECTION OF WATER MAINS SHALL CONFORM TO AWWA STANDARD C651, LATEST REVISION.
2. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF UNDERGROUND TELEPHONE WITH FAIRPOINT COMMUNICATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR EXCAVATION & BACKFILL OF TRENCH AND ANY UNDERGROUND CONDUITS.
3. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF UNDERGROUND ELECTRIC POWER SERVICE WITH CENTRAL MAINE POWER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TOTAL INSTALLATION OF THE UNDERGROUND SERVICE INCLUDING, BUT NOT LIMITED TO, ALL TRENCHING, PRIMARY AND SECONDARY CABLES, TERMINATORS, CONNECTORS, PULL WIRES, ETC.
4. SANITARY SEWER PIPE SHALL BE POLYVINYL CHLORIDE SDR 35 FOR GRAVITY MAINS/SERVICES & SDR 18 PRESSURE PIPE FOR FORCE MAIN, UNLESS OTHERWISE NOTED ON THE PLANS. ALL SEWER UTILITY MATERIALS AND INSTALLATION METHODS SHALL CONFORM TO THE PORTLAND WATER DISTRICT SPECIFICATIONS.
5. REFER TO ELECTRICAL PLANS FOR SECONDARY ELECTRIC SERVICE TO LIGHTS, SIGNS AND OTHER APPURTENANCES.

LANDSCAPE NOTES:

1. ALL PLANT MATERIALS SHALL MEET THE STANDARDS AS SET FORTH BY THE AMERICAN ASSOCIATION OF NURSERYMEN. ALL TREES ARE TO BE GUYED AND STAKED PER THE DETAIL. ALL TREES, SHRUB BEDS, ETC. ARE TO BE MULCHED WITH 4" OF SHREDDED PINE OR HEMLOCK BARK MULCH.
2. ALL DISTURBED AREAS ARE TO RECEIVE A MINIMUM OF 4" OF TOPSOIL PRIOR TO PERMANENT SEEDING.
3. ANY DEVIATIONS FROM THE LANDSCAPE PLAN, INCLUDING PLANT SPECIES, SIZE, QUANTITY, LOCATION OR CONDITION, SHALL BE REVIEWED & APPROVED BY THE LANDSCAPE ARCHITECT, DEVELOPER AND MUNICIPAL AUTHORITY (IF APPLICABLE) PRIOR TO INSTALLATION.
4. THE DEVELOPER, OR HIS REPRESENTATIVE, SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE PLANT MATERIAL. CLEAR VISIBILITY SHALL BE MAINTAINED AT INTERSECTIONS, BETWEEN THE HEIGHTS OF 3 FEET & 6 FEET, WITHIN 15 FEET OF THE TRAVEL WAY.
5. ALL TREES AND VEGETATED AREAS INDICATED TO BE PRESERVED SHALL BE PROTECTED FROM DAMAGE BY PLACEMENT OF A PROTECTIVE BARRIER IN ACCORDANCE WITH THE TREE PROTECTION DETAIL CONTAINED ON THE LANDSCAPE PLANS.

GENERAL CONSTRUCTION PLAN:

IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SCHEDULE CERTAIN PORTIONS OF THE SITE WORK TO ENSURE EROSION AND SEDIMENTATION CONTROL MEASURES ARE SEQUENCED FOR OPTIMUM EFFECTIVENESS. BUILDING CONSTRUCTION WILL COMMENCE AT THE START OF THE PROJECT AND BE CONCURRENT WITH SEVERAL ELEMENTS OF THE SITE WORK. THE FOLLOWING SCHEDULE FOR CONSTRUCTION REFLECTS THIS :

1. Install crushed stone stabilized construction entrance. Primary construction access will be via Drowne Road.
2. Install siltation fence.
3. Clear and grub areas within work area. Strip work zone of loam material & stockpile.
4. During grubbing operations, install stone check dams at any evident concentrated flows.
5. Install temporary dewatering sumps.
6. Begin long-term stormwater filter basin construction.
7. Begin underground utility infrastructure improvements (sewer and water).
8. Begin installation of storm drain system with riprap aprons.
9. Begin roadway construction commencing from Drowne Road. Perform earthwork operations to rough grade roadway to subgrade including drainage swales and culverts.
10. Install ditch channel stabilization.
11. Install subbase gravel along roadway.
12. Install base gravel along roadway.
13. Install pavement and curbing.
14. Loam, lime, fertilize, seed and mulch disturbed areas.
15. Remove accumulated sediment from ahead of any silt barriers (as necessary).
16. Once the site is stable and a 90% catch of vegetation has been obtained, remove all temporary erosion control measures.
17. Touch up loam and seed.

ZONING COMPLIANCE SUMMARY

EXCERPT OF THE CONTRACT ZONING AGREEMENT RELATING TO PHASE I OF THE VILLAGE GREEN REVITALIZATION MASTER PLAN.

This Contract Zoning Agreement is entered into this _____ day of _____, 2011 by and between the **Town of Cumberland**, a Municipal Corporation (the "**Town**"), and **Village Green Cumberland, LLC**, a Maine Limited Liability Company with a business address of PO Box 3572, Portland, ME 04104-3571, its nominee or assigns (the "**Developer**"), pursuant to the Conditional and Contract rezoning provisions set forth in 30-A M.R.S.A. Section 4352 (the "**Act**") and Section 606 of the Cumberland Zoning Ordinance, as amended (the "**Zoning Ordinance**").

WHEREAS, the property subject to this Agreement consists of a 40.7 +/- acre parcel of unimproved real estate located between Drowne Road and Wyman Way, identified on the Town's Tax Assessor map as MAP U10, Lot 7B, as more particularly shown on Exhibit A attached hereto (the "**Property**"), which property is currently owned by the Town by virtue of a certain Deed dated September 13, 2000, recorded in the Cumberland County Registry of Deeds in Book 15732, Page 22;

WHEREAS, the Property is located in the Village Mixed-Use Zone (V-MUZ) Zoning District (the "**V-MUZ Zoning District**") located in section 204.13 of the Zoning Ordinance;

WHEREAS, the Developer has entered into a Purchase and Sale Agreement - Land Only, dated _____, as amended (the "**Purchase and Sale Agreement**"), pursuant to which the Developer has agreed to purchase the Property from the Owner;

WHEREAS, the Town desires to sell the property to generate tax revenue and stimulate further economic development in the town center as recommended by the 2009 Comprehensive Plan.

WHEREAS, the Developer intends to develop the Property into a 59 lot residential subdivision, subject to the terms and conditions set forth herein, as further described in the Exhibit B attached hereto (the "**Project**");

WHEREAS, in order for the Project to be financially feasible for the construction and sale of residential dwelling units while meeting all applicable codes, certain Amendments with respect to dimensional, design and certain other performance standards of the Cumberland Zoning Ordinance are required, and;

WHEREAS, the Town and Developer desire to enter into this Contract Zoning Agreement relating to the Property, subject to the terms and conditions set forth herein.

NOW THEREFORE, pursuant to the provisions of 30-A.M.R.S.A. § 4352(8) and Section 606 of the Cumberland Zoning Ordinance, as amended, the Cumberland Town Council hereby finds that this Amended and Restated Contract Zoning Agreement:

- A) is consistent with the Comprehensive Plan duly adopted by the Town of Cumberland on November 9, 2009;
- B) establishes a contract zone area consistent with the existing and permitted uses in the original zone of the area involved;
- C) only includes conditions and restrictions which relate to the physical development and future operation of the proposed development; and
- D) imposes those conditions and restrictions which are necessary and appropriate for the protection of the public health, safety and general welfare of the Town.

In furtherance of these common goals, the parties agree as follows:

I. Establishment of the Contract Zone:

The Town hereby agrees that the Property as described herein shall be a contract zone (the "**Contract Zone**") pursuant to the provisions of 30-A.M.R.S.A. § 4352(8) and Section 606 of the Cumberland Zoning Ordinance. This Agreement shall create an overlay zone. Except as expressly modified or otherwise stated herein, the Property shall be subject to the requirements of the underlying V-MUZ Zoning District, as the same may be amended from time to time, together with all applicable lot requirements and general requirements, not modified herein.

II. Permitted Uses Within the Contract Zone:

The development permitted within the Contract Zone established herein shall be as follows:

All uses currently authorized either as permitted uses or special exceptions in the VMUZ Zoning District, or as specifically authorized herein.

III. Restrictions and Certain Design Standards Within The Contract Zone:

All restrictions as currently set forth in Section 606 of the Cumberland Zoning Ordinance, except as modified herein and as appears on Exhibit C, attached hereto and made a part hereof.

IV. Performance Standards Within the Contract Zone:

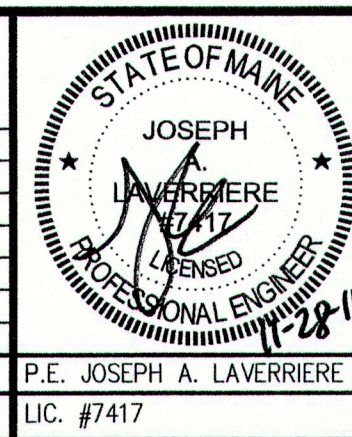
The following performance standards shall apply to the Contract Zone (Phase I of the VGRMP) as follows:

- A. The Recreation Facilities and Open Space Impact Fee Ordinance of the Town of Cumberland shall be waived in accordance with Article 1.10 Waiver of Impact Fee subject to the following provisions:
 - 1.6 Payment of Fees shall be modified as follows; the Developer shall submit to the Town a list of specific public improving values for said improvements to be provided by each Phase of the approved Village Green Revitalization Master Plan (VGRMP). The public improvements shall include construction of a roadway from the existing terminus of Wyman Way, crossing the Property and connecting with Drowne Road. All public improvements provided in lieu of the impact fee for each Phase of the approved VGRMP shall be completed prior to the final release of bonds or letter of credit(s) required to secure all public improvements for each Development Phase. Performance guarantees, including Letters of Credit and bonds, shall include the value of the in lieu payments attributed to Public Improvements, even where the Public Improvements are to be located upon future Phases which may or may not be constructed.
 - The public improvements provided for each Phase of the approved VGRMP will, at a minimum, equal the value of the impact fee(s) otherwise due as provided in 1.11 Calculation of Fees.
 - All public improvements to be located within the adjacent "Civic Lot" (Map U10-A, Lot 13) provided by the Developer as part of this Agreement shall be in accordance with a Site Plan approved in advance by the Town.
 - Certain areas within the parcel purchased from the Town (Map U10, Lot 7B) by the Developer shall be subject to an easement which allows for public use and recreation (see Exhibit D Plan of Open Space/Recreational Easements). The value of these easements for the purposes of 1.11 Calculation of Fees (Land for Public Use) shall be based on the total purchase price paid for said parcel, divided by the total acreage of the parcel multiplied by the acreage finally included within the easement area(s). Provided, however, that the Developer shall not be credited for any easements or improvements that are required by law or ordinance of residential subdivisions approved by the Town. The financial guarantees, including Letters of Credit, posted by the Developer to assure the construction of qualifying public improvements in phases future to Phase 1, may be required to be maintained in applicable portions by the Town until the Town and Developer have mutually determined an agreed plan for the future phases.
- B. The Town of Cumberland's Growth Management Ordinance is hereby amended to include the following additional exemption within Section 106 of this ordinance:

106.6 Lots included within the Phase I subdivision of the approved Village Green Revitalization Plan.
- C. The improvements to be constructed within Phase 1 of the development shall be constructed in a manner to take advantage of emerging energy conservation techniques and technologies, consistent with the standards set forth in Exhibit E hereto.

Subject to the terms herein, the Cumberland Planning Board shall have review authority under the applicable provisions of the Cumberland Subdivision, Site Plan and Zoning Ordinances to impose conditions of approval pursuant to said Ordinances relating to the development and construction.

REV	DATE	DESCRIPTION
7	11.28.11	PHASE 1 CONSTRUCTION SET
6	09.13.11	RESUBMITTED TO TOWN
5	08.01.11	RESUBMITTED TO TOWN
4	07.22.11	REVISED PER TOWN COMMENTS AND RESUBMITTED
3	06.30.11	RESUBMITTED TO TOWN
2	06.21.11	REVISED PER INTERNAL REVIEW
1	05.31.11	SUBMITTED TO TOWN AND DEF



PROJECT	VILLAGE GREEN CUMBERLAND, MAINE
SHEET TITLE	GENERAL NOTES AND LEGEND
CLIENT	VILLAGE GREEN CUMBERLAND, LLC

DRAWN:	CDD	DATE:	MAY 2011
DESIGNED:	JAL	SCALE:	---
CHECKED:	JAL	JOB NO.	2998
FILE NAME:	2998-COVER-GEN NOTES		
SHEET	C-2.0		

EXHIBIT C
Summary of Zoning Amendments

- A) The following minimum lot frontages shall be required on a Private Drive within the Contract Zone (Phase I of the Village Green Revitalization Master Plan, VGRMP) as follows:

Use	Min. Lot Frontage
Detached Single Family Residential Structure	15'
Attached Single Family Residential Structure	15'
Duplex Residential Structure	50'

Maximum Number of Residential Units Accessed from Private Drive = 6

- B) The following minimum setbacks within the VMUZ District shall be modified for all structures within the Contract Zone (Phase I of the VGRMP) as follows:

Structure Type	Front	Side
Detached Single Family Residential Structure and Garage	15'*	
Attached Single Family Residential Structure and Garage	15'*	10' **
Duplex Residential Structure and Garage	15'*	
Driveways	0'	8' **

* Setback between face of garage and sidewalk shall be minimum distance of 20'

** Side setback reduced to 0' along common sideline between attached residential structures and garages

- C) All public roads within the Contract Zone (Phase I of the VGRMP), including the full extent of Wyman Way connecting to Main Street, shall be designed in accordance with the residential sub-collector roadway standards as contained in Section 8.2 of the Subdivision Ordinance, as modified by Section 204.13.5.4 of the V-MUZ District and as further modified below:

Standard	Public Road
Grass Esplanade	6' *
Paved Sidewalk	6' (one side)
Min. Tangent Length Between Curves of Reverse Alignment	0'
Min. Distance Between Street Intersections on Same Side	100'
Min. Distance Between Street Intersections on Opposite Side	200'
Min. Pavement Radii at Intersections	35'
Min. K Factor, Crest Vertical Curve	15
Min. K Factor, Sag Vertical Curve	20
MPH Design Speed	25
Min. Property Line Radius at Intersection	15'
Dead End Turn Around	Cul-de-Sac Per 8.2.D.3

* Reduce esplanade width to 0' along portion of Wyman Way extending between Parcel 1 (Tax Map U10, Lot 7B) - Former Doane Parcel and Main Street (Route 9).

- D) All private roads within the Contract Zone (Phase I of the VGRMP) shall be designed in accordance with the private roadway standards as contained in Section 8.2 of the Subdivision Ordinance, as modified by Section 204.13.5.4 of the V-MUZ District and as further modified below:

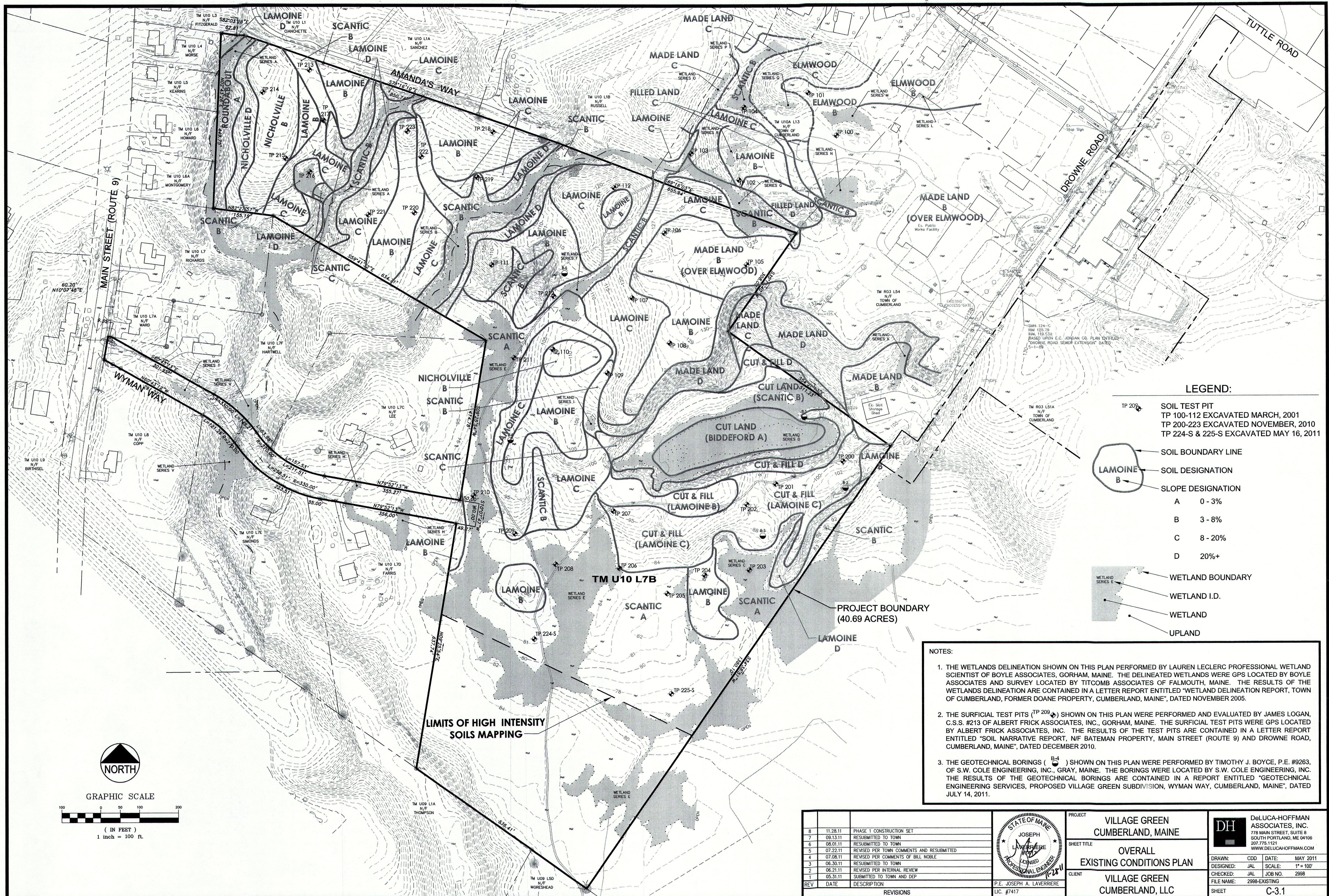
Standard	Private Road
Grass Esplanade	(one side)
Paved Sidewalk	5' (one side)
Min. Tangent Length Between Curves of Reverse Alignment	0'
Min. Distance Between Street Intersections on Same Side	100'
Dead End Turn Around	Tee Turn Around 25' Length

- E) The following roadway standards shall apply to private drives within the Contract Zone (Phase I of the VGRMP):

Standard	Private Drive
Right-of-Way Width	30'
Roadway Pavement Width	18'
Grass Esplanade	N/A
Paved Sidewalk	N/A
Max. Dead End Road Length	250'
Min. Roadway Centerline Grade (1.0% preferred)	1.0%
Max. Roadway Centerline Grade	10%
Min. Centerline Radius (100' Preferred)	100'
Min. Tangent Length Between Curves of Reverse Alignment	0'
Min. Angle of Street Intersections (90° Preferred)	75°
Min. Distance Between Street Intersections on Same Side	100'
Min. Distance Between Street Intersections on Opposite Side	100'
Min. Pavement Radii at Intersections	10'
Min. Pavement Crown	1/4" per foot
Min. Slope of Gravel Shoulder	1/2" per foot
Min. K Factor, Crest Vertical Curve	15
Min. K Factor, Sag Vertical Curve	20
MPH Design Speed	25
Max. Grade within 75' of Intersection	3%
Min. Property Line Radius at Intersection	0'
Dead End Turn Around	N/A

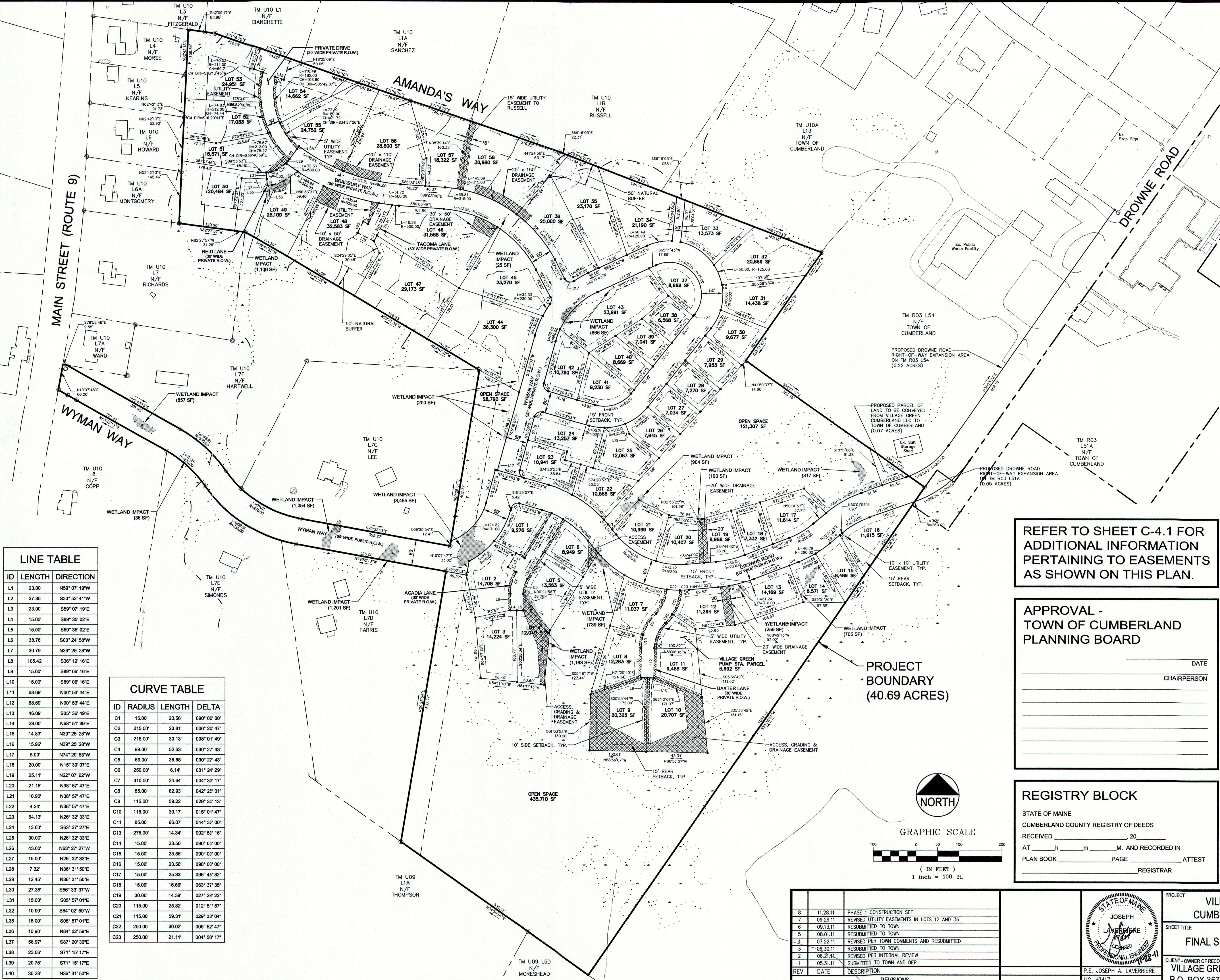
The following design standards shall apply to the Contract Zone (Phase I of the VGRMP) as follows:

1. The portion of public roadway along the existing Wyman Way right-of-way shall conform to the existing right-of-way dimensions and geometry, which shall include the ability of the roadway not to be centered within the existing right-of-way to minimize impact to existing residences.
2. The drainage system for public and private roadways shall consist of closed drainage to the extent practicable; however, shallow under-drained swales may be used alongside roadways where no sidewalk is proposed. Where sidewalks are proposed, they shall be constructed with curb and access to the closed drain system through catch basin inlets, for example.
3. Parking and garage doors facing towards the public right-of-way are permissible provided the garages are architecturally designed to not be the principal element of the structure. Parking and garage doors facing towards private roads and private drives are permissible.
4. No minimum wooded buffer strip is required to be maintained along existing public streets as referenced in Section 7.9 of the Subdivision Ordinance.
5. Curbing at roadways to be either bituminous or slip form concrete.
6. A minimum 50' buffer shall be maintained along the exterior of the VGRMP parcel (excluding Wyman Way right-of-way) and abutting residential development. The 50' buffer shall not be required to adjacent land owned by the Town.



LINE TABLE		
ID	LENGTH	DIRECTION
L1	23.00'	N69° 07' 19"W
L2	37.65'	S30° 52' 41"W
L3	23.00'	S69° 07' 19"E
L4	15.00'	S89° 35' 02"E
L5	15.00'	S89° 35' 02"E
L6	38.76'	S00° 24' 58"W
L7	30.79'	N39° 25' 28"W
L8	105.42'	S38° 12' 16"E
L9	15.00'	S89° 06' 16"E
L10	15.00'	S89° 06' 16"E
L11	68.69'	N00° 53' 44"E
L12	68.69'	N00° 53' 44"E
L13	46.09'	S05° 36' 49"E
L14	23.00'	N68° 51' 39"E
L15	14.83'	N39° 25' 28"W
L16	15.98'	N39° 25' 28"W
L17	5.00'	N74° 20' 53"W
L18	20.00'	N15° 39' 07"E
L19	25.11'	N22° 07' 02"W
L20	21.18'	N38° 57' 47"E
L21	10.95'	N38° 57' 47"E
L22	4.24'	N38° 57' 47"E
L23	54.13'	N26° 32' 33"E
L24	13.00'	S63° 27' 27"E
L25	30.00'	N26° 32' 33"E
L26	43.00'	N63° 27' 27"W
L27	15.00'	N26° 32' 33"E
L28	7.32'	N36° 31' 50"E
L29	12.45'	N36° 31' 50"E
L30	27.35'	S56° 33' 37"W
L31	15.00'	S05° 57' 01"E
L32	10.90'	S84° 02' 59"W
L33	15.00'	S05° 57' 01"E
L34	58.97'	S87° 20' 30"E
L35	23.00'	S71° 15' 17"E
L36	20.75'	S71° 15' 17"E
L40	30.23'	N36° 31' 50"E

CURVE TABLE			
ID	RADIUS	LENGTH	DELTA
C1	15.00'	23.56'	090° 00' 00"
C2	215.00'	23.81'	006° 20' 47"
C3	215.00'	30.13'	008° 01' 49"
C4	99.00'	52.63'	030° 27' 43"
C5	69.00'	36.68'	030° 27' 43"
C6	250.00'	6.14'	001° 24' 29"
C7	310.00'	24.64'	004° 33' 17"
C8	85.00'	62.93'	042° 25' 01"
C9	115.00'	59.22'	029° 30' 13"
C10	115.00'	30.17'	015° 01' 47"
C11	85.00'	66.07'	044° 32' 00"
C13	275.00'	14.34'	002° 56' 16"
C14	15.00'	23.56'	090° 00' 00"
C15	15.00'	23.56'	090° 00' 00"
C16	15.00'	23.56'	090° 00' 00"
C17	15.00'	25.33'	096° 45' 32"
C18	15.00'	16.66'	063° 37' 35"
C19	30.00'	14.39'	027° 29' 22"
C20	115.00'	25.62'	012° 51' 57"
C21	115.00'	59.31'	029° 33' 04"
C22	250.00'	30.02'	006° 52' 47"
C23	250.00'	21.11'	004° 50' 17"



LEGEND	
DESCRIPTION	
PROJECT BOUNDARY	---
EXISTING ABUTTING PROPERTY LINE/R.O.W. LINE	---
PROPOSED SUBDIVISION LOT LINE	---
PROPOSED RIGHT-OF-WAY LINE	---
PROPOSED PRIVATE DRIVE RIGHT-OF-WAY LINE	---
PROPOSED EASEMENT LINE	---
PROPOSED BUILDING SETBACK	---
EDGE OF WETLAND	---
STREAM	---
WETLAND IMPACT AREA	---
EXISTING ROADWAY MONUMENTATION	---
GRANITE OR PRECAST CONC. MON. TO BE SET	---
EXISTING PROPERTY MONUMENTATION	---
IRON PIPE / IRON PIN TO BE SET	---

- ### GENERAL NOTES
- OWNER OF RECORD:
TOWN OF CUMBERLAND
280 TUTTLE ROAD
CUMBERLAND, MAINE 04021
 - PROJECT NAME / MUNICIPALITY:
VILLAGE GREEN
CUMBERLAND, MAINE
 - APPLICANT / DEVELOPER:
VILLAGE GREEN CUMBERLAND, LLC
P.O. BOX 3572
PORTLAND, MAINE 04104
 - ENGINEER / DESIGNER:
DELUCA-HOFFMAN ASSOCIATES, INC.
778 MAIN STREET, SUITE 8
SOUTH PORTLAND, MAINE 04106
 - BOUNDARY AND TOPOGRAPHIC SURVEY:
TITCOMB ASSOCIATES, INC.
133 GRAY ROAD
FAIRBANKS, MAINE 04105
 - WETLANDS DELINEATION:
BOYLE ASSOCIATES
25 DUNDEE ROAD
GORHAM, ME 04038
 - PARCEL SIZE AND TAX ASSESSOR DATA:
PROJECT SITE IS IDENTIFIED BY THE CUMBERLAND ASSESSOR'S OFFICE AS LOT 7B ON TAX MAP U10 CONTAINING 40.69 ACRES OF LAND, INCLUDING 1.48 ACRES IN WYMAN WAY RIGHT-OF-WAY TO MAIN STREET.
 - ZONING:
VILLAGE MIXED USE (VMI) WITH CONTRACT ZONING OVERLAY
 - USE:
SINGLE FAMILY RESIDENTIAL USES (ATTACHED AND DETACHED) ARE PERMITTED USES WITHIN THE CONTRACT OVERLAY ZONE.
 - CONTRACT OVERLAY ZONE DIMENSIONAL REQUIREMENTS:
THE FOLLOWING MINIMUM LOT SIZES ARE REQUIRED:

USE	MIN. LOT SIZE (S.F.)	MIN. LOT AREA PER UNIT (S.F.)	MIN. LOT FRONTAGE (F.T.)	MIN. LOT DEPTH (F.T.)	MIN. LOT WIDTH (F.T.)
DETACHED SINGLE FAMILY RESIDENTIAL STRUCTURE	5,000	5,000	15'	50'	50'
ATTACHED SINGLE FAMILY RESIDENTIAL STRUCTURE	5,000	5,000	15'	50'	50'

MAXIMUM NUMBER OF RESIDENTIAL UNITS ACCESSED FROM PRIVATE DRIVE IS LIMITED TO 6.

THE FOLLOWING MINIMUM SETBACKS ARE REQUIRED FOR ALL STRUCTURES:

STRUCTURE TYPE	FRONT	SIDE	REAR
DETACHED SINGLE FAMILY RESIDENTIAL STRUCTURE AND GARAGE	15'	10'	15'
ATTACHED SINGLE FAMILY RESIDENTIAL STRUCTURE AND GARAGE	15'	10'	15'
DETACHED SHED	5'	5'	5'

* SETBACK BEYOND FACE OF GARAGE AND SIDEWALK SHALL BE MINIMUM DISTANCE OF 20'

** SIDE SETBACK REDUCED TO 0' ALONG COMMON SIDELINE BETWEEN ATTACHED RESIDENTIAL STRUCTURES AND GARAGES.

11. NET RESIDENTIAL DENSITY CALCULATIONS:

MINUS:	40.69 ACRES
TOTAL PARCEL AREA	
15% FOR ROADS AND PARKING	6.10 ACRES
ISOLATED LAND AREAS	0 ACRES
OTHER UNDEVELOPABLE AREAS	0 ACRES
SLOPES > 20%	6.53 ACRES
WETLANDS	8.20 ACRES
100-YEAR FLOODPLAIN	0 ACRES
LAND WITH ROW OR EASEMENT	1.11 ACRES
RESOURCE PROTECTION DISTRICT	0 ACRES
NET RESIDENTIAL AREAS	26.75 ACRES
RESIDENTIAL DENSITY (5,000 S.F./UNIT)	180 RES. UNITS

12. A PRE-CONSTRUCTION MEETING BETWEEN THE TOWN OF CUMBERLAND AND THE DEVELOPER'S CONTRACTOR IS REQUIRED PRIOR TO THE START OF ANY WORK.

13. THE PERFORMANCE GUARANTEE REQUIRED BY SECTION 4.4.D.7 OF THE TOWN OF CUMBERLAND SUBDIVISION ORDINANCE SHALL BE FURNISHED IN AN AMOUNT AND IN A FORM ACCEPTABLE TO AND APPROVED BY THE TOWN PRIOR TO START OF ANY WORK.

14. THE WETLAND AREAS SHOWN ON THE INDIVIDUAL LOTS SHALL NOT BE DISTURBED BEYOND THE LIMITS IDENTIFIED ON THE PLANS AND APPROVED BY THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THE ARMY CORPS OF ENGINEERS. NO ADDITIONAL WETLAND IMPACTS MAY OCCUR ON THE INDIVIDUAL LOTS BEYOND THAT SHOWN ON THE PLANS, UNLESS THE REQUIRED PERMITS ARE FIRST OBTAINED. THE INDIVIDUAL LOTS ARE NOT ELIGIBLE FOR THE 4,300 S.F. WETLAND IMPACT EXEMPTION.

15. ALL LOT OWNERS SHALL BE MEMBERS OF AN ASSOCIATION THAT WILL BE RESPONSIBLE FOR MAINTAINING ALL STORMWATER MANAGEMENT AND TREATMENT MEASURES AND ASSOCIATED PIPES AND STRUCTURES, PRIVATE ROADS, PRIVATE DRIVES, AND PUBLIC WALKING TRAILS WITHIN THE DESIGNATED OPEN SPACE AREAS.

16. DESIGNATED OPEN SPACE AREAS SHALL BE OPEN TO THE GENERAL PUBLIC.

17. FURTHER LOT DIVISION SHALL BE PROHIBITED WITHOUT FURTHER PLANNING BOARD APPROVAL.

18. ALL LOTS ARE SUBJECT TO THE CONDITIONS OF THE FOLLOWING PERMITS:

SITE LOCATION OF DEVELOPMENT ACT:	PERMIT # L-25376-L3-A-N
NATURAL RESOURCE PROTECTION ACT:	PERMIT # L-25376-TC-B-N
U.S. ACCE SECTION 404 WETLAND:	PERMIT #

REFER TO SHEET C-4.1 FOR ADDITIONAL INFORMATION PERTAINING TO EASEMENTS AS SHOWN ON THIS PLAN.

APPROVAL - TOWN OF CUMBERLAND PLANNING BOARD

DATE _____

CHAIRPERSON _____

REGISTRY BLOCK

STATE OF MAINE

CUMBERLAND COUNTY REGISTRY OF DEEDS

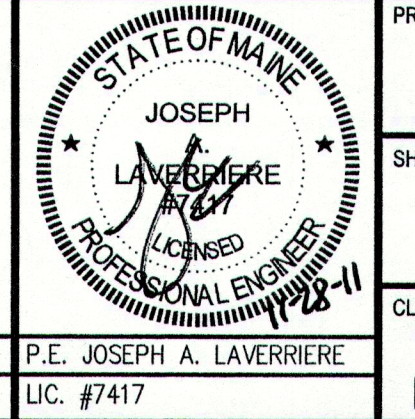
RECEIVED _____, 20____

AT _____ h _____ m _____ M. AND RECORDED IN _____

PLAN BOOK _____ PAGE _____ ATTEST _____

REGISTRAR _____

REV	DATE	DESCRIPTION
8	11.28.11	PHASE 1 CONSTRUCTION SET
7	08.29.11	REVISED UTILITY EASEMENTS IN LOTS 12 AND 36
6	09.13.11	RESUBMITTED TO TOWN
5	08.01.11	RESUBMITTED TO TOWN
4	07.22.11	REVISED PER TOWN COMMENTS AND RESUBMITTED
3	06.30.11	RESUBMITTED TO TOWN
2	06.21.11	REVISED PER INTERNAL REVIEW
1	05.31.11	SUBMITTED TO TOWN AND DEP



PROJECT: VILLAGE GREEN CUMBERLAND, MAINE

SHEET TITLE: FINAL SUBDIVISION PLAN

CLIENT - OWNER OF RECORD: VILLAGE GREEN CUMBERLAND, LLC

P.O. BOX 3572, PORTLAND, ME 04104

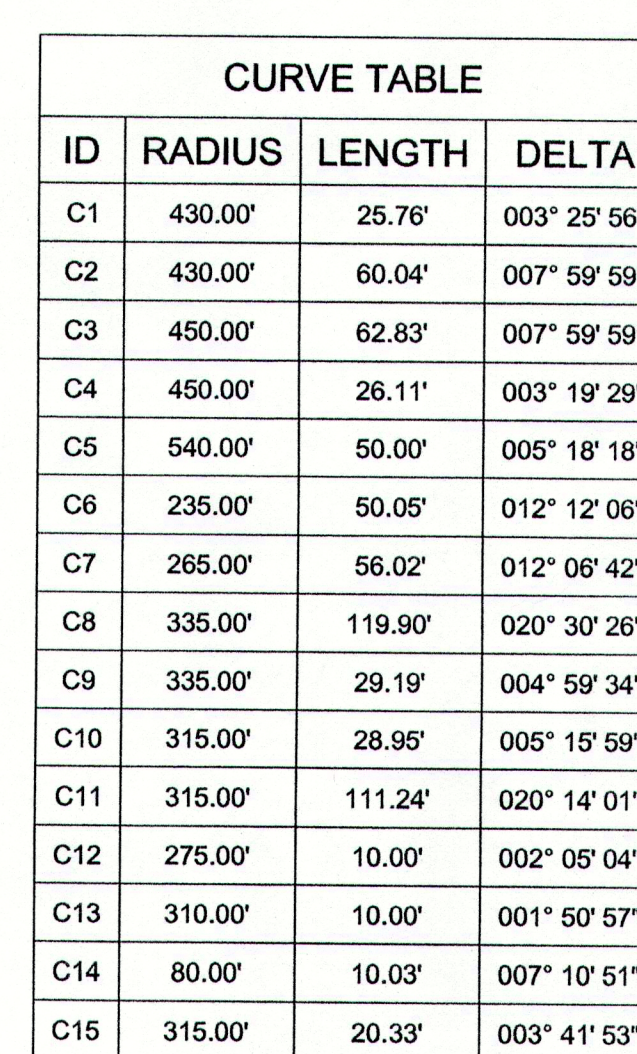
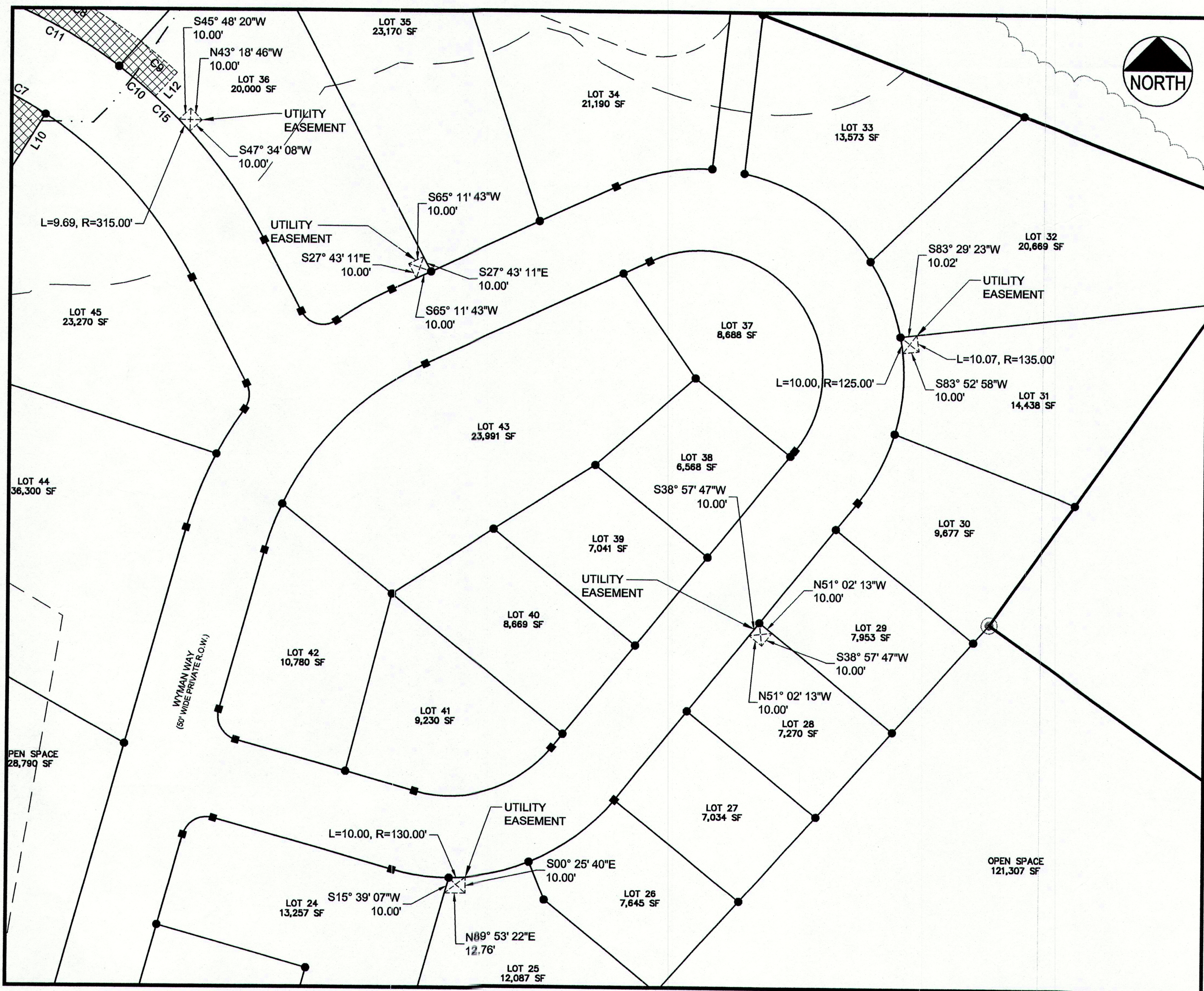
DRAWN: CDD DATE: MAY 2011

DESIGNED: JAL SCALE: 1" = 100'

CHECKED: JAL JOB NO: 2998

FILE NAME: 2998-SUBDIVISION PLAN

SHEET: C-4.0



**APPROVAL -
TOWN OF CUMBERLAND
PLANNING BOARD**

_____ DATE _____

_____ CHAIRPERSON _____

REGISTRY BLOCK

STATE OF MAINE

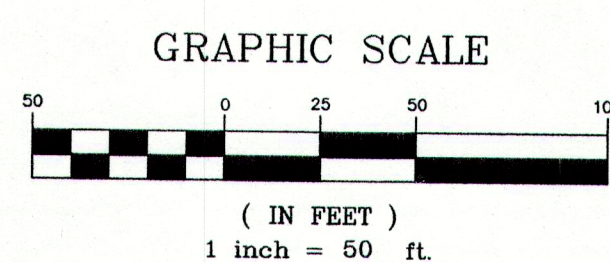
CUMBERLAND COUNTY REGISTRY OF DEEDS

RECEIVED _____, 20____

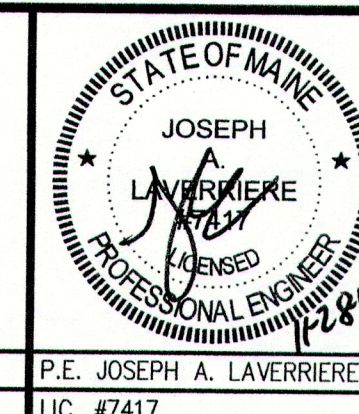
AT _____h _____m _____M. AND RECORDED IN

PLAN BOOK _____ PAGE _____ ATTEST


_____ REGISTRAR



3	11.28.11	PHASE 1 CONSTRUCTION SET
2	09.29.11	REVISED UTILITY EASEMENTS IN LOTS 15 AND 36
1	09.13.11	RESUBMITTED TO TOWN
REV	DATE	DESCRIPTION
		REVISIONS



PROJECT	VILLAGE GREEN CUMBERLAND, MAINE
SHEET TITLE	EASEMENT PLAN
CLIENT - OWNER OF RECORD	VILLAGE GREEN CUMBERLAND, LLC P.O. BOX 3572, PORTLAND, ME 04104

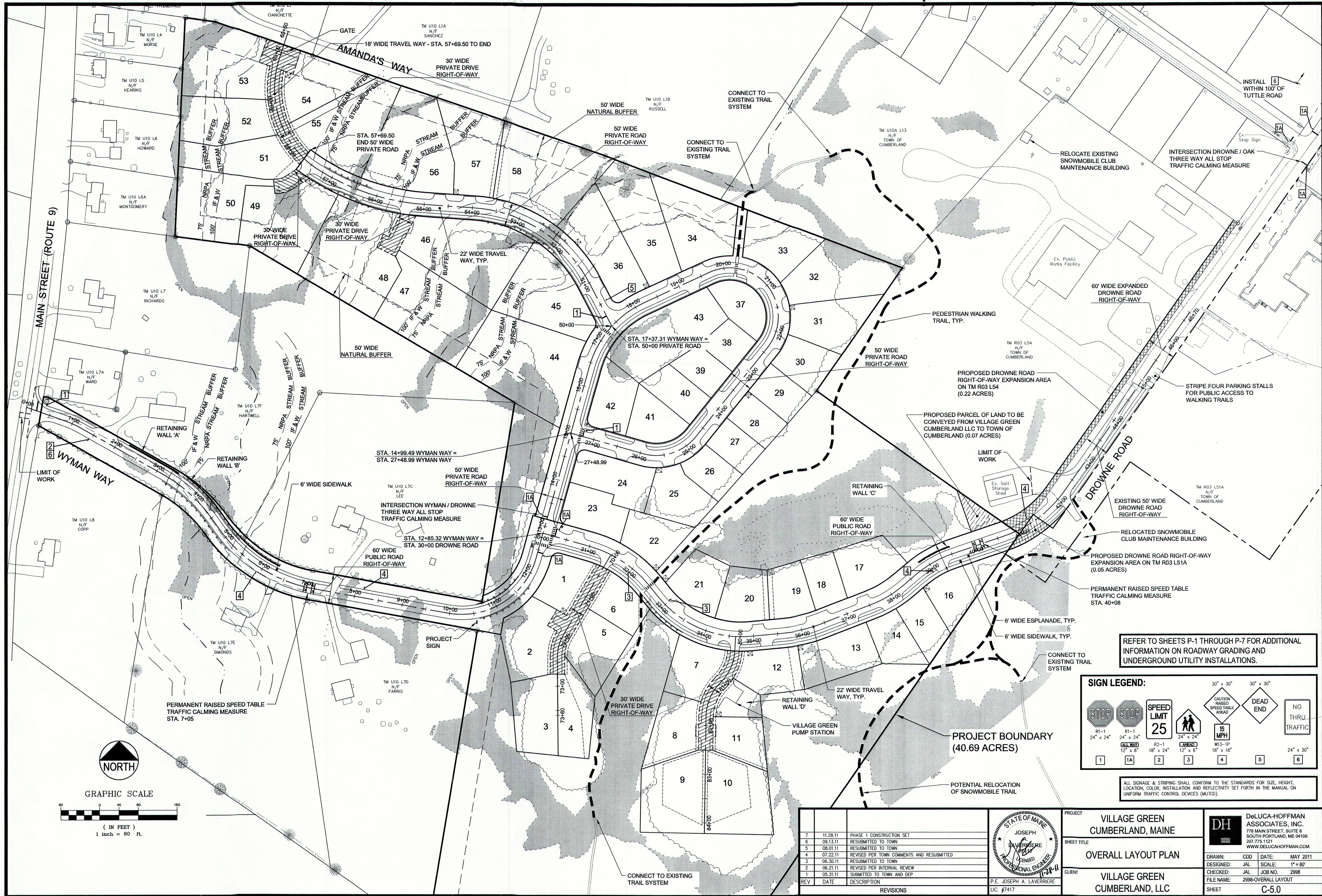


**DeLUCA-HOFFMAN
ASSOCIATES, INC.**

778 MAIN STREET, SUITE 8
SOUTH PORTLAND, ME 04106
207.775.1121
WWW.DELUCAHOFFMAN.COM

DRAWN: CDD	DATE: MAY 2011	
DESIGNED: JAL	SCALE: 1" = 50'	
CHECKED: JAL	JOB NO. 2998	
FILE NAME: 2998-EASEMENT PLAN		
SHEET C-4 1		

R:\2998 Bateman Cumberland\CADD\CONSTRUCTION SET\2998-Overall Layout.dwg, C-5.0 OVERALL LAYOUT PLAN, 11/20/2011 11:54:39 AM, cdb



REFER TO SHEETS P-1 THROUGH P-7 FOR ADDITIONAL INFORMATION ON ROADWAY GRADING AND UNDERGROUND UTILITY INSTALLATIONS.

SIGN LEGEND:

1	2	3	4	5

ALL SIGNAGE & STRIPING SHALL CONFORM TO THE STANDARDS FOR SIZE, HEIGHT, LOCATION, COLOR, INSTALLATION AND REFLECTIVITY SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

REV	DATE	DESCRIPTION
7	11.28.11	PHASE 1 CONSTRUCTION SET
6	09.13.11	RESUBMITTED TO TOWN
5	08.01.11	RESUBMITTED TO TOWN
4	07.22.11	REVISED PER TOWN COMMENTS AND RESUBMITTED
3	06.30.11	RESUBMITTED TO TOWN
2	06.21.11	REVISED PER INTERNAL REVIEW
1	05.31.11	SUBMITTED TO TOWN AND DEP

REVISIONS

STATE OF MAINE
JOSEPH A. LAVERRIERE
REGISTERED PROFESSIONAL ENGINEER
P.E. JOSEPH A. LAVERRIERE
LIC. #7417

PROJECT
VILLAGE GREEN CUMBERLAND, MAINE

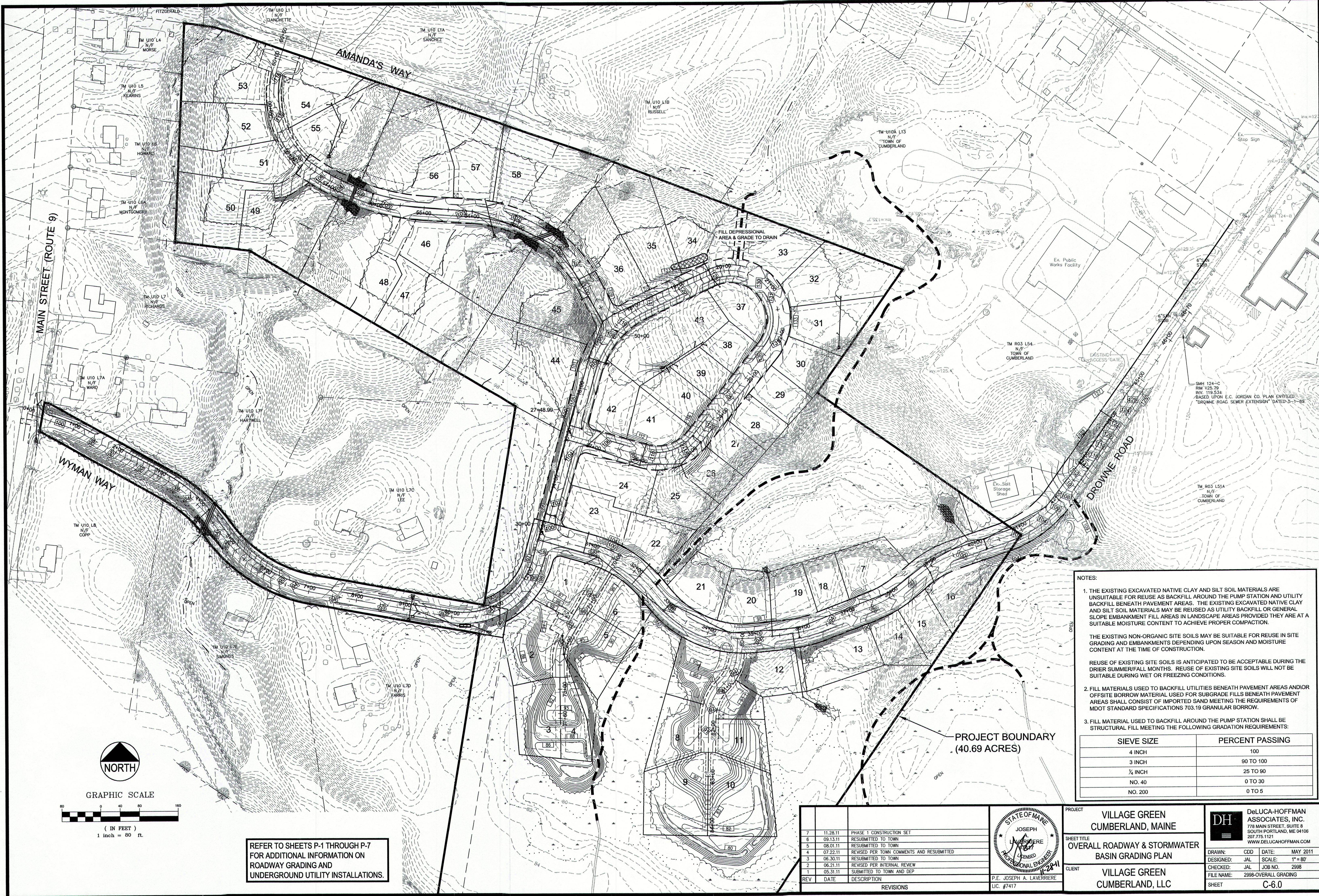
SHEET TITLE
OVERALL LAYOUT PLAN

CLIENT
VILLAGE GREEN CUMBERLAND, LLC

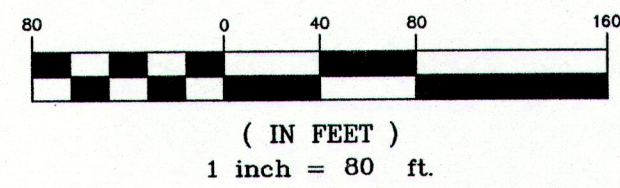
DH DeLUCA-HOFFMAN ASSOCIATES, INC.
778 MAIN STREET, SUITE 8
SOUTH PORTLAND, ME 04106
207.775.1121
WWW.DELUCAHOFFMAN.COM

DRAWN: CDD DATE: MAY 2011
DESIGNED: JAL SCALE: 1" = 80'
CHECKED: JAL JOB NO. 2998
FILE NAME: 2998-OVERALL LAYOUT
SHEET C-5.0

R:\2998 Bateman Cumberland\CADD\CONSTRUCTION SET\DWG\2998-OVERALL GRADING PLAN-ROAD, 11/30/2011 11:56:21 AM, cdube



GRAPHIC SCALE



REFER TO SHEETS P-1 THROUGH P-7
FOR ADDITIONAL INFORMATION ON
ROADWAY GRADING AND
UNDERGROUND UTILITY INSTALLATIONS.

NOTES:

1. THE EXISTING EXCAVATED NATIVE CLAY AND SILT SOIL MATERIALS ARE UNSUITABLE FOR REUSE AS BACKFILL AROUND THE PUMP STATION AND UTILITY BACKFILL BENEATH PAVEMENT AREAS. THE EXISTING EXCAVATED NATIVE CLAY AND SILT SOIL MATERIALS MAY BE REUSED AS UTILITY BACKFILL OR GENERAL SLOPE EMBANKMENT FILL AREAS IN LANDSCAPE AREAS PROVIDED THEY ARE AT A SUITABLE MOISTURE CONTENT TO ACHIEVE PROPER COMPACTION.
2. THE EXISTING NON-ORGANIC SITE SOILS MAY BE SUITABLE FOR REUSE IN SITE GRADING AND EMBANKMENTS DEPENDING UPON SEASON AND MOISTURE CONTENT AT THE TIME OF CONSTRUCTION.
3. REUSE OF EXISTING SITE SOILS IS ANTICIPATED TO BE ACCEPTABLE DURING THE DRIER SUMMER/FALL MONTHS. REUSE OF EXISTING SITE SOILS WILL NOT BE SUITABLE DURING WET OR FREEZING CONDITIONS.
4. FILL MATERIALS USED TO BACKFILL UTILITIES BENEATH PAVEMENT AREAS AND/OR OFFSITE BORROW MATERIAL USED FOR SUBGRADE FILLS BENEATH PAVEMENT AREAS SHALL CONSIST OF IMPORTED SAND MEETING THE REQUIREMENTS OF MDOT STANDARD SPECIFICATIONS 703.19 GRANULAR BORROW.
5. FILL MATERIAL USED TO BACKFILL AROUND THE PUMP STATION SHALL BE STRUCTURAL FILL MEETING THE FOLLOWING GRADATION REQUIREMENTS:

SIEVE SIZE	PERCENT PASSING
4 INCH	100
3 INCH	90 TO 100
1/2 INCH	25 TO 90
NO. 40	0 TO 30
NO. 200	0 TO 5

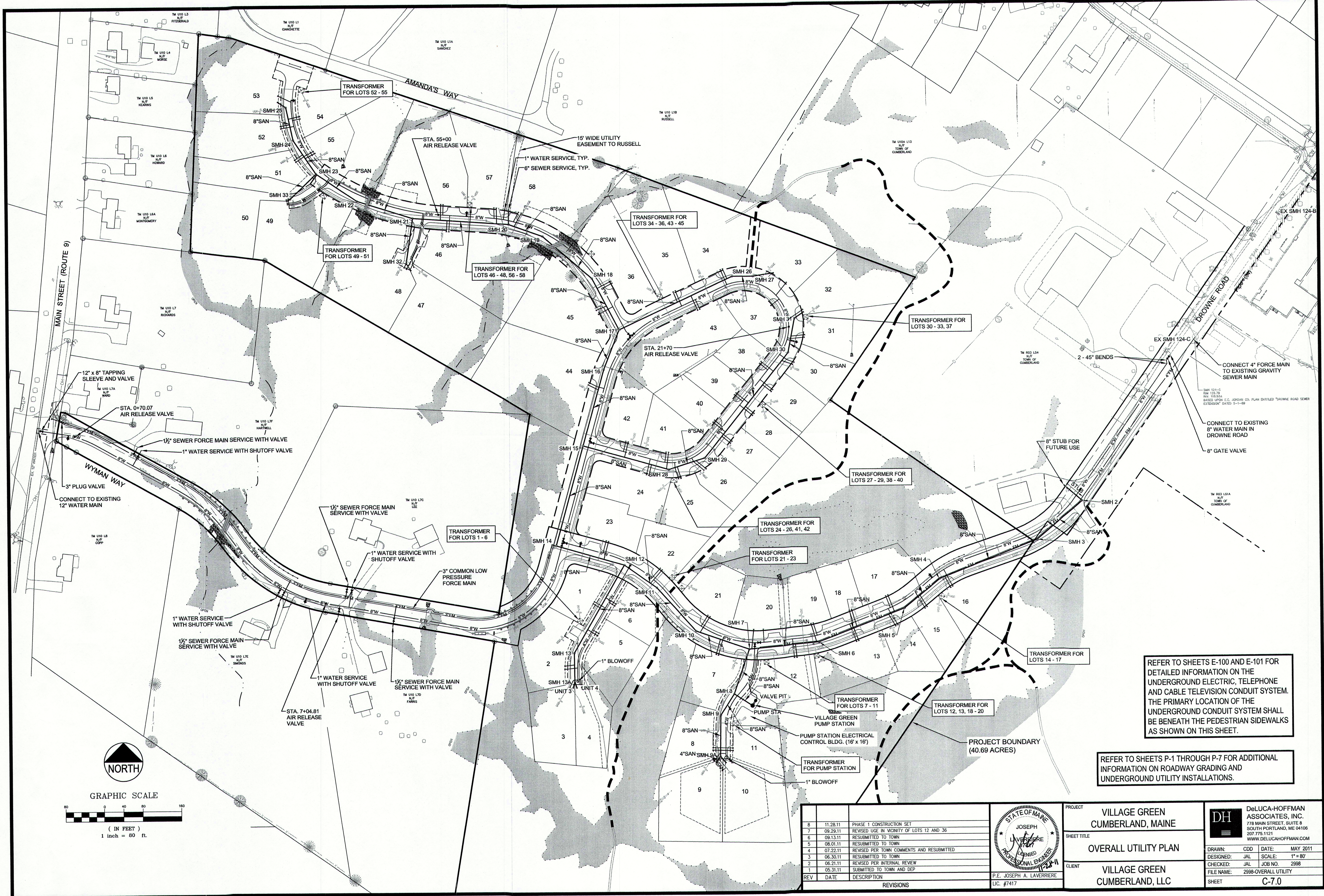
REV	DATE	DESCRIPTION
7	11.28.11	PHASE 1 CONSTRUCTION SET
6	09.13.11	RESUBMITTED TO TOWN
5	08.01.11	RESUBMITTED TO TOWN
4	07.22.11	REVISED PER TOWN COMMENTS AND RESUBMITTED
3	06.30.11	RESUBMITTED TO TOWN
2	06.21.11	REVISED PER INTERNAL REVIEW
1	05.31.11	SUBMITTED TO TOWN AND DEP

STATE OF MAINE
JOSEPH
LAVERRIERE
PROFESSIONAL ENGINEER
LICENSED
12-28-11
P.E. JOSEPH A. LAVERRIERE
LIC. #7417

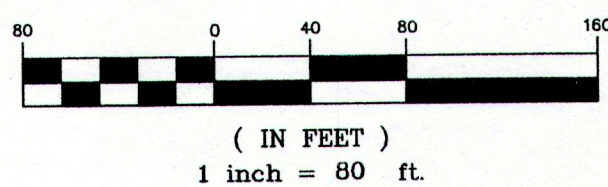
PROJECT
VILLAGE GREEN
CUMBERLAND, MAINE
SHEET TITLE
OVERALL ROADWAY & STORMWATER
BASIN GRADING PLAN
CLIENT
VILLAGE GREEN
CUMBERLAND, LLC

DH DeLUCA-HOFFMAN
ASSOCIATES, INC.
778 MAIN STREET, SUITE 8
SOUTH PORTLAND, ME 04106
207.775.1121
WWW.DE LUCAHOFFMAN.COM
DRAWN: CDD DATE: MAY 2011
DESIGNED: JAL SCALE: 1" = 80'
CHECKED: JAL JOB NO. 2998
FILE NAME: 2998-OVERALL GRADING
SHEET C-6.0

R:\2998-Batemans Cumberland\CADD\CONSTRUCTION SET\DWG\998-OVERALL UTILITY PLAN.dwg, C:\7.0 OVERALL UTILITY PLAN, 11/30/2011 11:52:46 AM, cdube



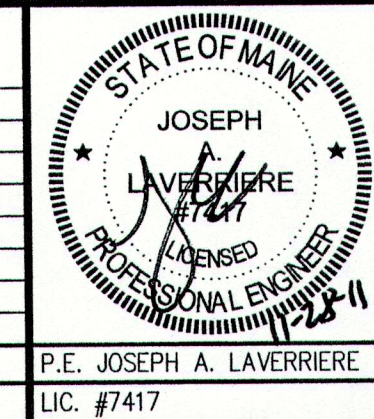
GRAPHIC SCALE



REFER TO SHEETS E-100 AND E-101 FOR DETAILED INFORMATION ON THE UNDERGROUND ELECTRIC, TELEPHONE AND CABLE TELEVISION CONDUIT SYSTEM. THE PRIMARY LOCATION OF THE UNDERGROUND CONDUIT SYSTEM SHALL BE BENEATH THE PEDESTRIAN SIDEWALKS AS SHOWN ON THIS SHEET.

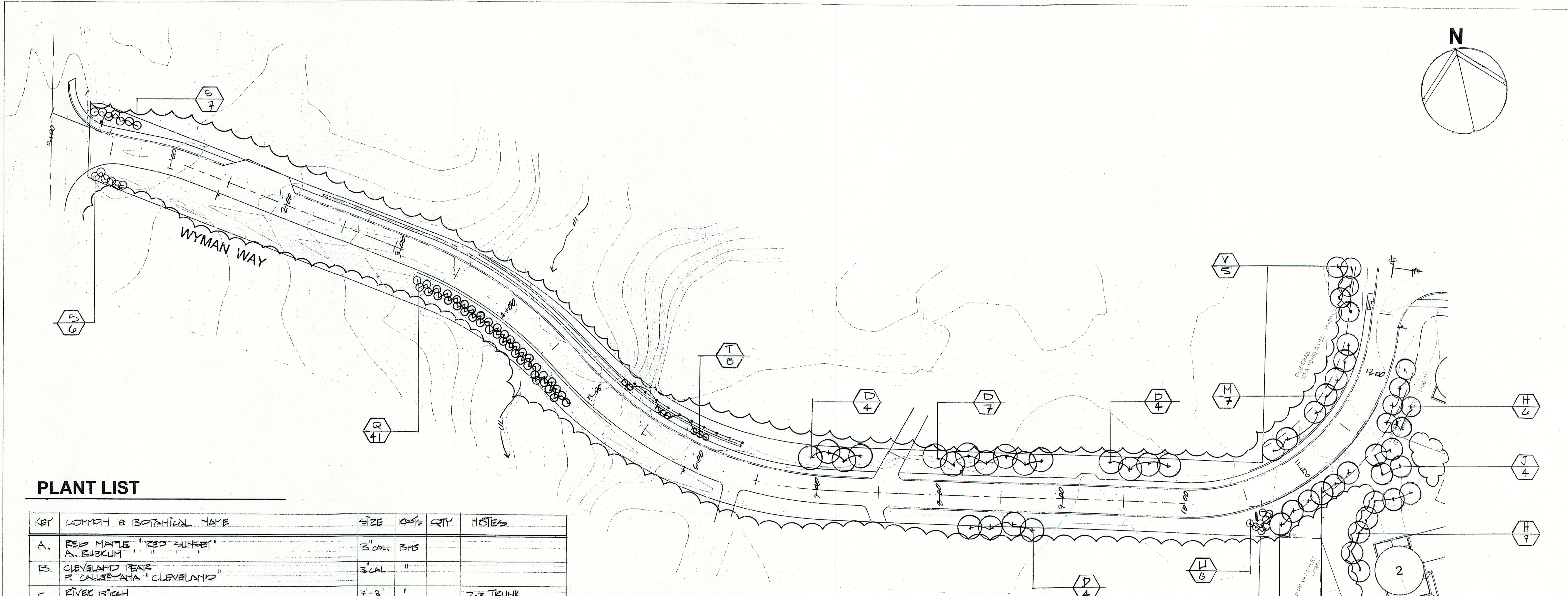
REFER TO SHEETS P-1 THROUGH P-7 FOR ADDITIONAL INFORMATION ON ROADWAY GRADING AND UNDERGROUND UTILITY INSTALLATIONS.

REV	DATE	DESCRIPTION
8	11.28.11	PHASE 1 CONSTRUCTION SET
7	09.29.11	REVISED UGE IN VICINITY OF LOTS 12 AND 36
6	09.13.11	RESUBMITTED TO TOWN
5	08.01.11	RESUBMITTED TO TOWN
4	07.22.11	REVISED PER TOWN COMMENTS AND RESUBMITTED
3	06.30.11	RESUBMITTED TO TOWN
2	06.21.11	REVISED PER INTERNAL REVIEW
1	05.31.11	SUBMITTED TO TOWN AND DEP



PROJECT
VILLAGE GREEN
CUMBERLAND, MAINE
SHEET TITLE
OVERALL UTILITY PLAN
CLIENT
VILLAGE GREEN
CUMBERLAND, LLC

DH DeLUCA-HOFFMAN ASSOCIATES, INC.
778 MAIN STREET, SUITE 8
SOUTH PORTLAND, ME 04106
207.775.1121
WWW.DELUCAHOFFMAN.COM
DRAWN: CDD DATE: MAY 2011
DESIGNED: JAL SCALE: 1" = 80'
CHECKED: JAL JOB NO. 2998
FILE NAME: 2998-OVERALL UTILITY
SHEET C-7.0

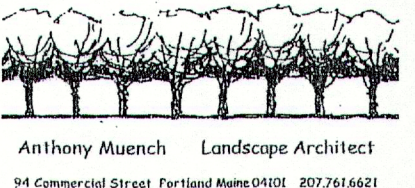
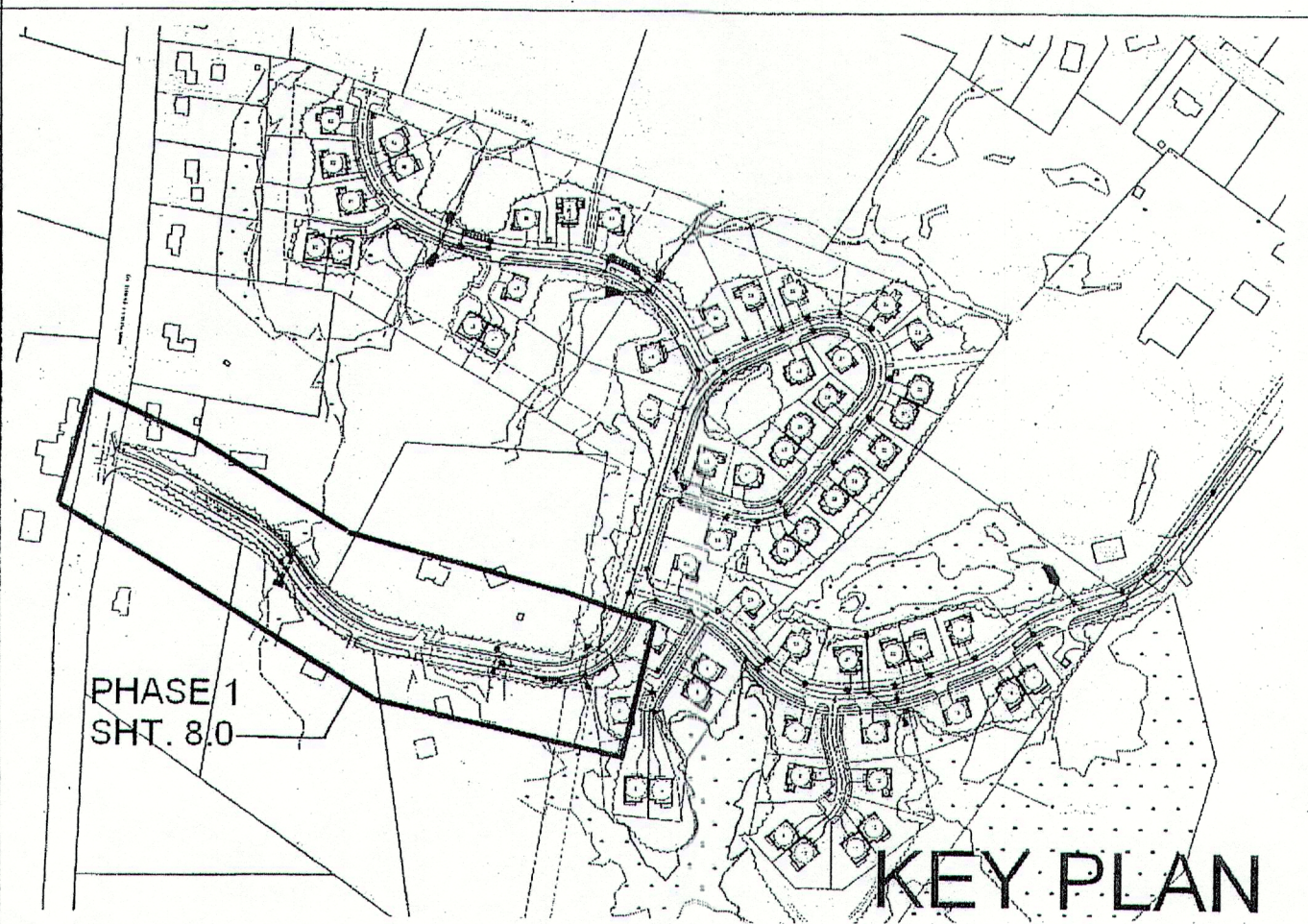
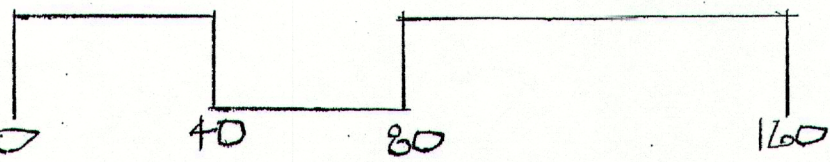


PLANT LIST

KEY	COMMON & BOTANICAL NAME	SIZE	RSPT	QTY	NOTES
A.	RED MAPLE "RED HUNTER" A. RUBICUM	3" CAL.	BMS		
B	CLEVELAND PEAR P. CLEVELANDIA "CLEVELAND"	3" CAL.	"		
C	RIVER BIRCH B. NIGRA	7'-8' 10'-12'	"		2-3 TRUNK
D	RED PINE P. RESINOSA	10' HT.	"		
E	SACRED CHERRY P. SACRATUM	5" CAL.	"		
F	SHOWY FLOWERING DOGS M. "SHOWY FLOWERING"	2 1/2'-3' CAL.	"		
G	NORWAY SPRUCE P. NORWEGICA	6'-7' 8'-10'	"		
H	COLORADO GREEN SPRUCE P. COLORADO	7'-8'	"		
I	WHITE SPRUCE P. GLAUCA	6'-7'	"		
J	FINCHER FIC A. FRANKI		"		
K	SHADBLOW A. X. GRACILIFLORA "ROBIN HILL"	2" CAL.	"		2-3 TRUNK
L	NATIVE SHADBLOW A. CANADENSIS	5'-6' CUMUL	"		
M	CANADIAN BALSAM FIC A. CANADENSIS VAR. FRANKI	6'-7' 5'-6'	"		
N	BLACKHAW VIBURNUM V. PRUNIFOLIUM	4'-4 1/2'	CONT.		3 CANES
O	COMMON RED TWIG DOGWOOD C. SPICATA "RED TWIG"	2' HT.	"		
P	CORNELIAN CHERRY DOGWOOD C. MAS	4'-5'	"		3 CANES
Q	BUSH HONEY-SUCKLE DIERVA LONICERA	2'-2 1/2'	13HS		
R	CARDINAL RED TWIG DOGWOOD C. SPICATA "CARDINAL"	3' HT.	CONT.		
S	COMMON LILAC S. VULGARIS	4 1/2' HT.	13HS		PURPLE BLEN.
T	VIRGINIA CREEPER PARthenocissus QUINQUEFOLIA		PTD.		2 YR.
U	CHINESE PETERD. JIMPER J. CHINENSIS "CHAUCA"	2 1/2' HT.	13HS		
V	BLACK SPRUCE P. MARIANA	5'-6'	"		

SITE PLAN

1" = 40'



OWNER
VILLAGE GREEN
CUMBERLAND, LLC

CIVIL ENGINEER
DeLUCA-HOFFMAN
ASSOCIATES, INC.

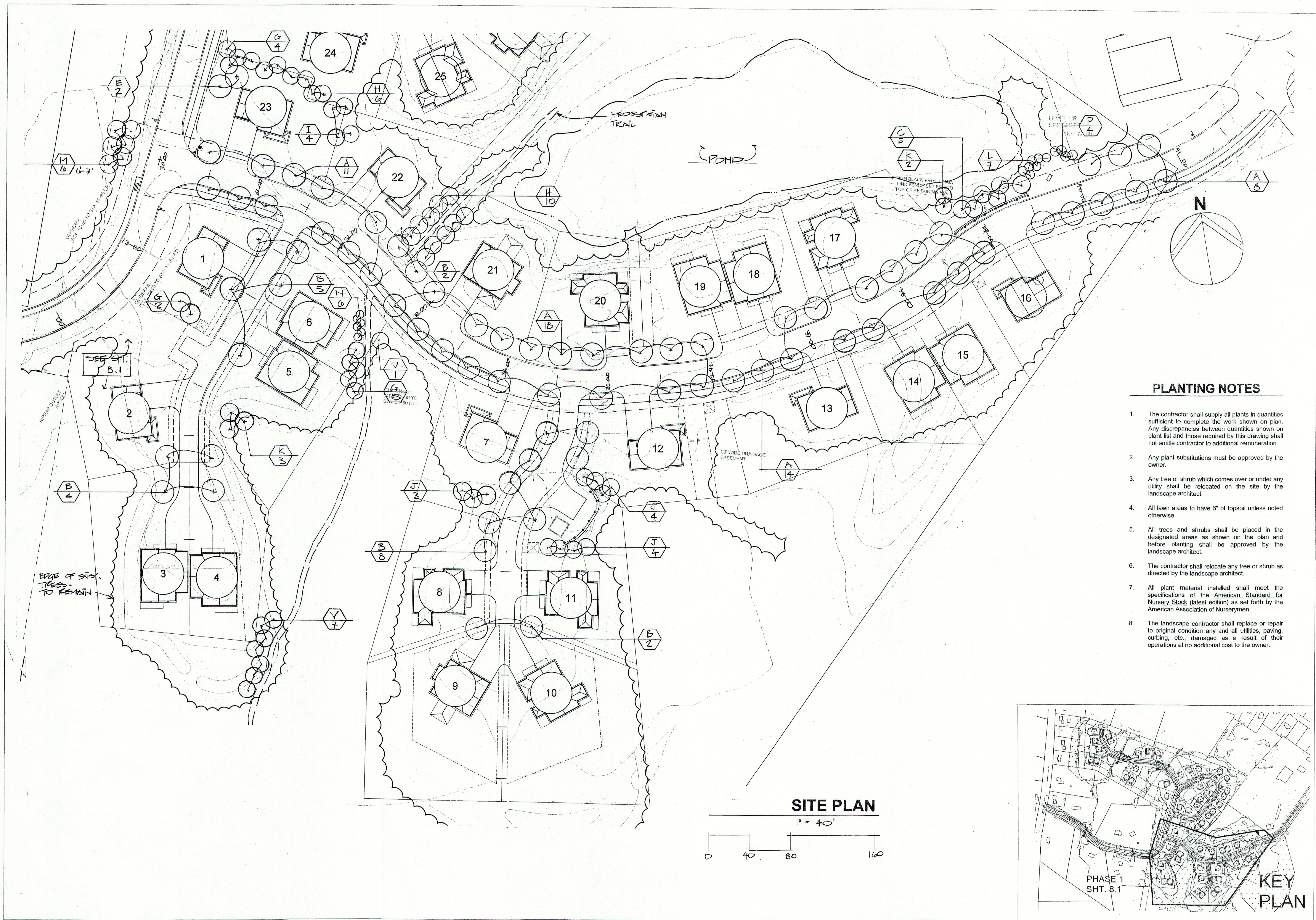
LANDSCAPE ARCHITECT
ANTHONY MUENCH

VILLAGE GREEN
CUMBERLAND, MAINE

REV. 05.06.11
DATE 06.15.11

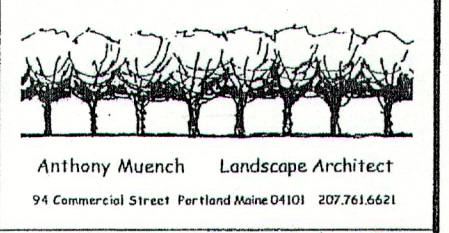
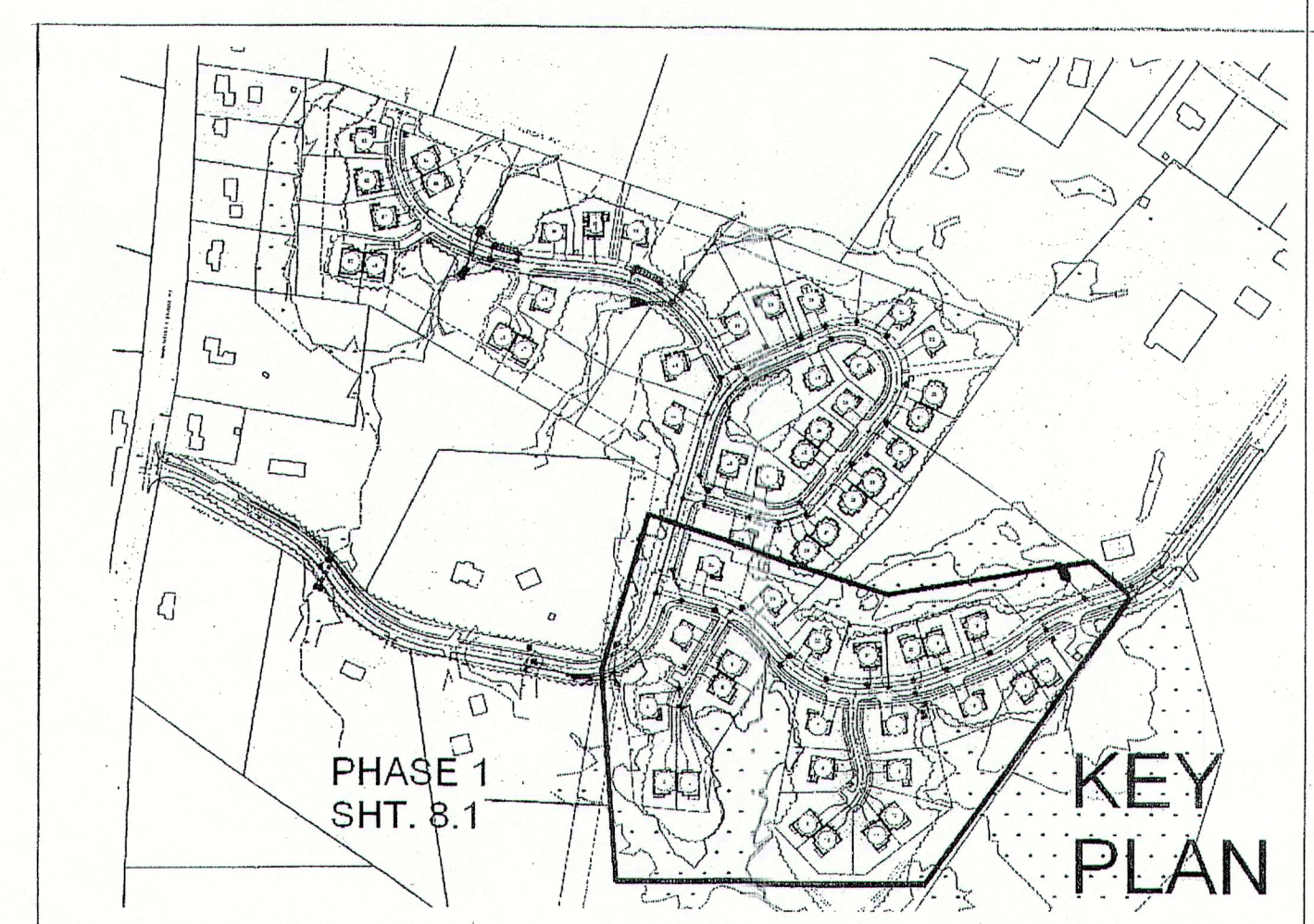
LANDSCAPE
PLAN

8.0



PLANTING NOTES

1. The contractor shall supply all plants in quantities sufficient to complete the work shown on plan. Any discrepancies between quantities shown on plant list and those required by this drawing shall not entitle contractor to additional remuneration.
2. Any plant substitutions must be approved by the owner.
3. Any tree or shrub which comes over or under any utility shall be relocated on the site by the landscape architect.
4. All lawn areas to have 6" of topsoil unless noted otherwise.
5. All trees and shrubs shall be placed in the designated areas as shown on the plan and before planting shall be approved by the landscape architect.
6. The contractor shall relocate any tree or shrub as directed by the landscape architect.
7. All plant material installed shall meet the specifications of the American Standard for Nursery Stock (latest edition) as set forth by the American Association of Nurserymen.
8. The landscape contractor shall replace or repair to original condition any and all utilities, paving, curbing, etc., damaged as a result of their operations at no additional cost to the owner.



OWNER
**VILLAGE GREEN
CUMBERLAND, LLC**

CIVIL ENGINEER
**DeLUCA-HOFFMAN
ASSOCIATES, INC.**

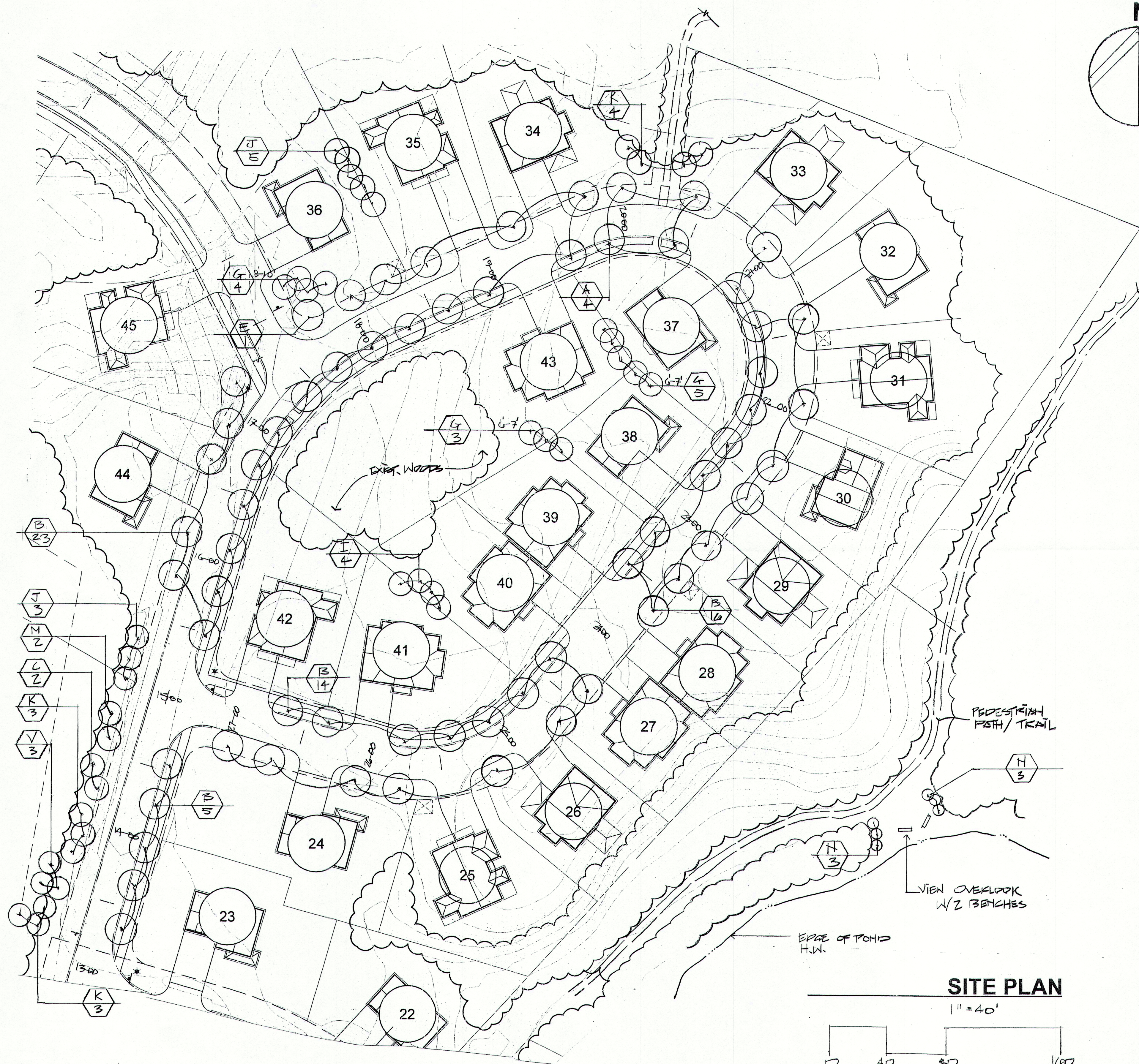
LANDSCAPE ARCHITECT
ANTHONY MUENCH

VILLAGE GREEN
CUMBERLAND, MAINE

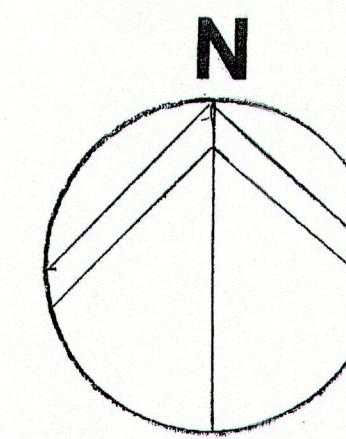
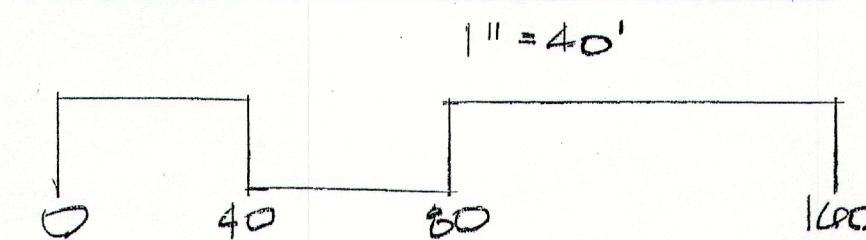
REV. 9-6-11
DATE 6-15-11

LANDSCAPE
PLAN

8.1



SITE PLAN



NOTES:

1. TREE SHALL BEAR SAME RELATION TO GRADE AS PRIOR TO PLANTING.

2. NEVER CUT A LEADER, THIN BRANCHES & FOLIAGE BY 1/3 RETAINING NORMAL TREE SHAPE.

NOTE 'B':

SECURE GUYS W/ RUBBER HOSE & #12 GA. WIRE SIM. TO STAKING NOTE 'A'.

2" GALV. TURNBUCKLE (3 GUYS/TREE)

CLAMP FOR GUY REMOVAL

TO METAL DEADMAN ANCHORS DRIVEN INTO SUBGRADE

NOTE 'A':

FOR ALL TREES UP TO 2 1/2" CAL. USE 2"x2" OR 2 1/2" Ø STAKES W/ 2-#12 GA. GALV. WIRE ENCASED IN 2 PLY REINF. RUBBER HOSE, 1/2" INSIDE DIA. GUY ALL TREES OVER 2 1/2" DIA. NOTE 'B'), GUY ALL EVERGREEN TREES.

#12 GA. ANNEALED GALV. WIRE IN RUBBER HOSE (SEE NOTE 'A') WOOD STAKES - DARK WALNUT OIL STAIN - ONE COAT, 3 STAKES/TREE

APPROVED TREE WRAP, LAP ENDS DO NOT STAPLE. WRAP TO HT. OF 2ND BRANCH

3" SHREDDED BARK MULCH (EXCEPT AS NOTED)

REMOVE BURLAP FROM TOP 1/3RD OF BALL

6" TEMP. SAUCER

SOIL MIX NOTES
FOR DECIDUOUS TREES USE 4 PARTS TOPSOIL, 1 PART MANURE.
FOR EVERGREEN TREES USE 4 PARTS TOPSOIL, 1 PART PEAT HUMUS.

4" MOUND FOR DRAINAGE

PLANTING DETAIL - TREE

N.T.S.

NOTE: SHRUBS SHALL BEAR SAME RELATION TO GRADE AS PRIOR TO PLANTING.

3" BARK MULCH W/ 4" SAUCER

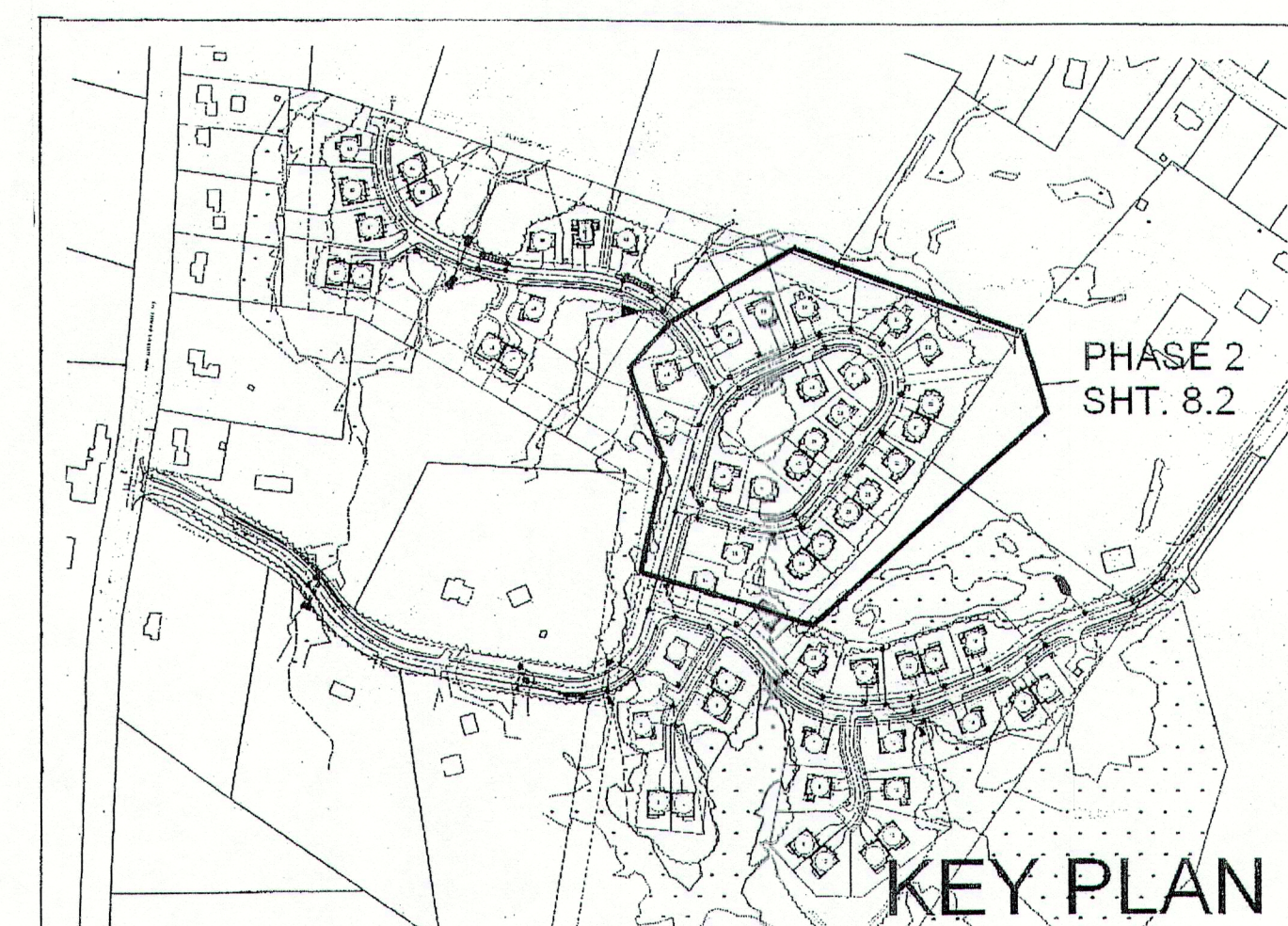
REMOVE BURLAP FROM TOP 1/3 BALL

SOIL MIX NOTES:

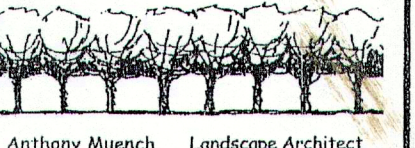
4 PARTS TOPSOIL, 1 PART HUMUS FOR EVERGREENS
4 PARTS TOPSOIL, 1 PART MANURE FOR DECIDUOUS SHRUBS

PLANTING DETAIL - SHRUB

N.T.S.



KEY PLAN



OWNER
VILLAGE GREEN
CUMBERLAND, LLC

CIVIL ENGINEER
DeLUCA-HOFFMAN
ASSOCIATES, INC.

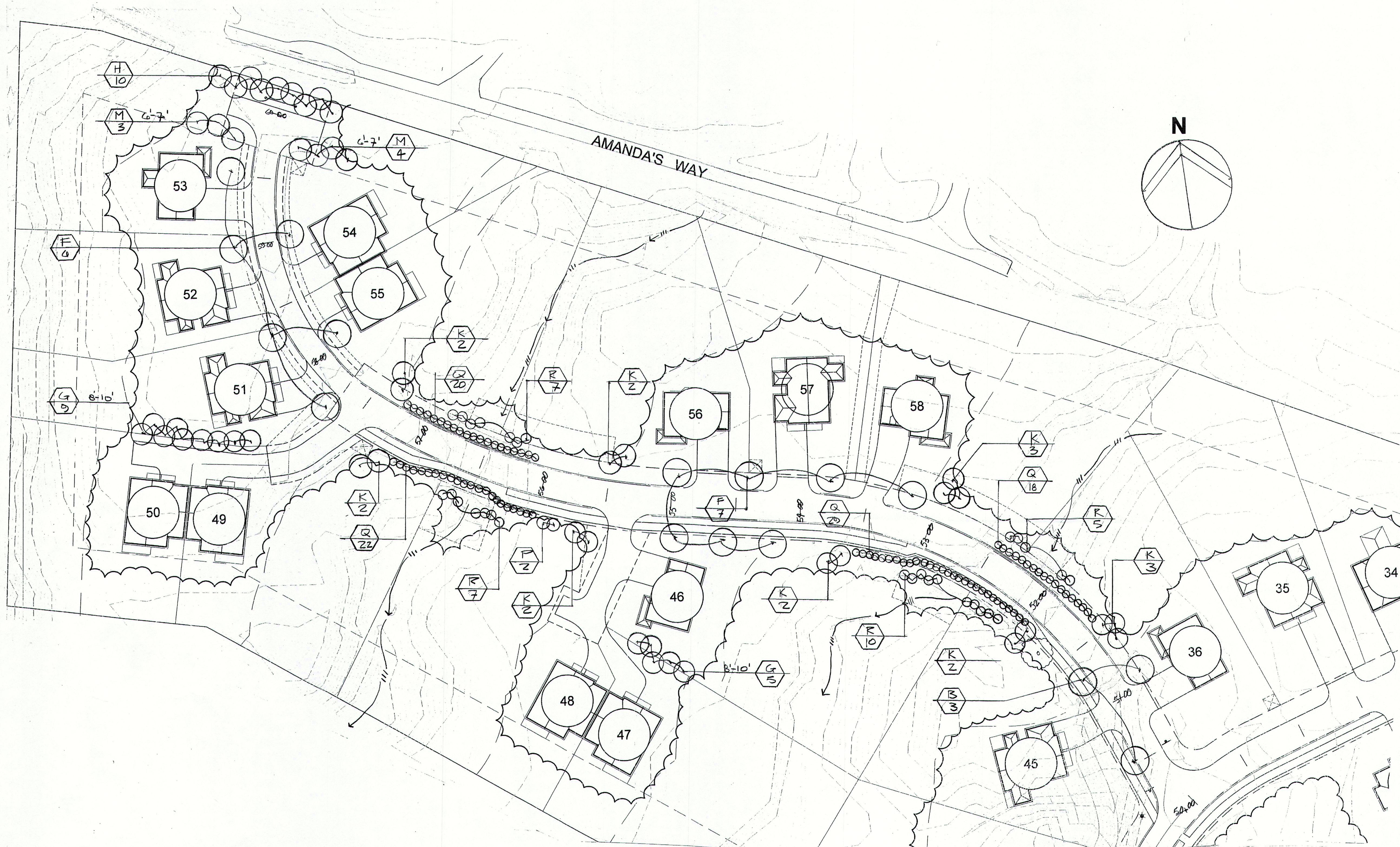
LANDSCAPE ARCHITECT
ANTHONY MUENCH

VILLAGE GREEN
CUMBERLAND, MAINE

REV: 5.6.11
DATE: 6.15.11

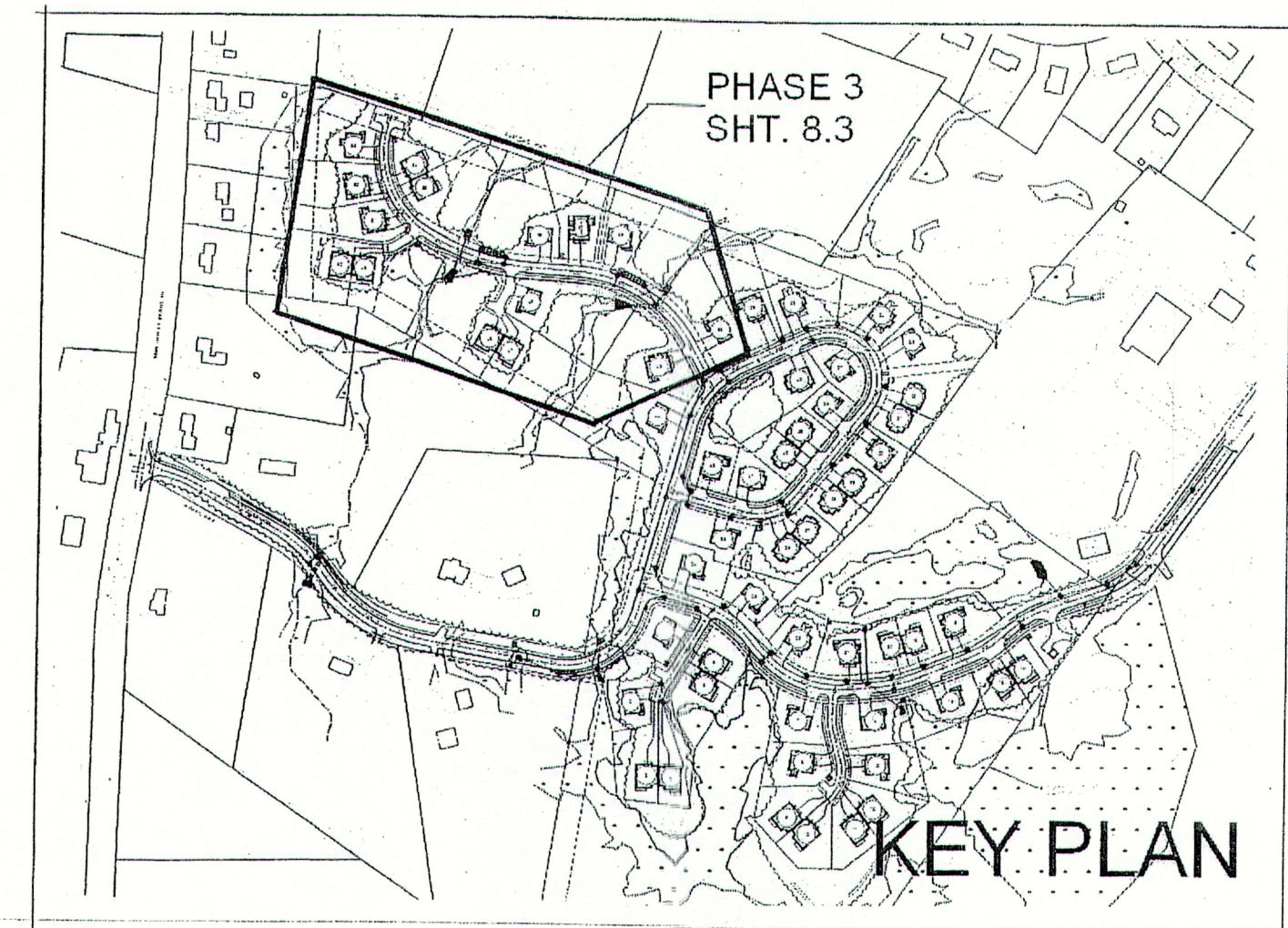
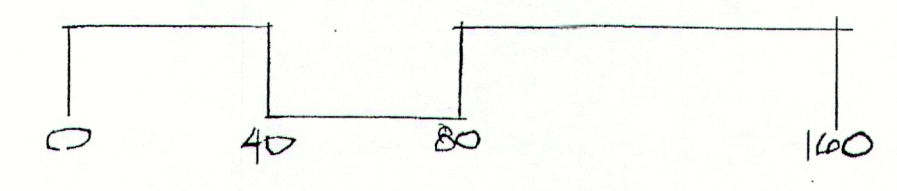
LANDSCAPE
PLAN

8.2



SITE PLAN

1" = 40'

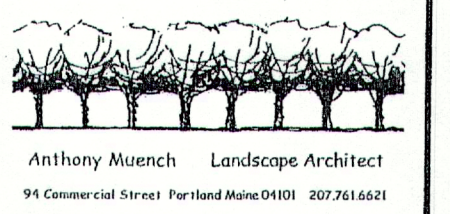


VILLAGE GREEN
CUMBERLAND, MAINE

REV. 9.6.11
DATE: 6.15.11

LANDSCAPE
PLAN

8.3

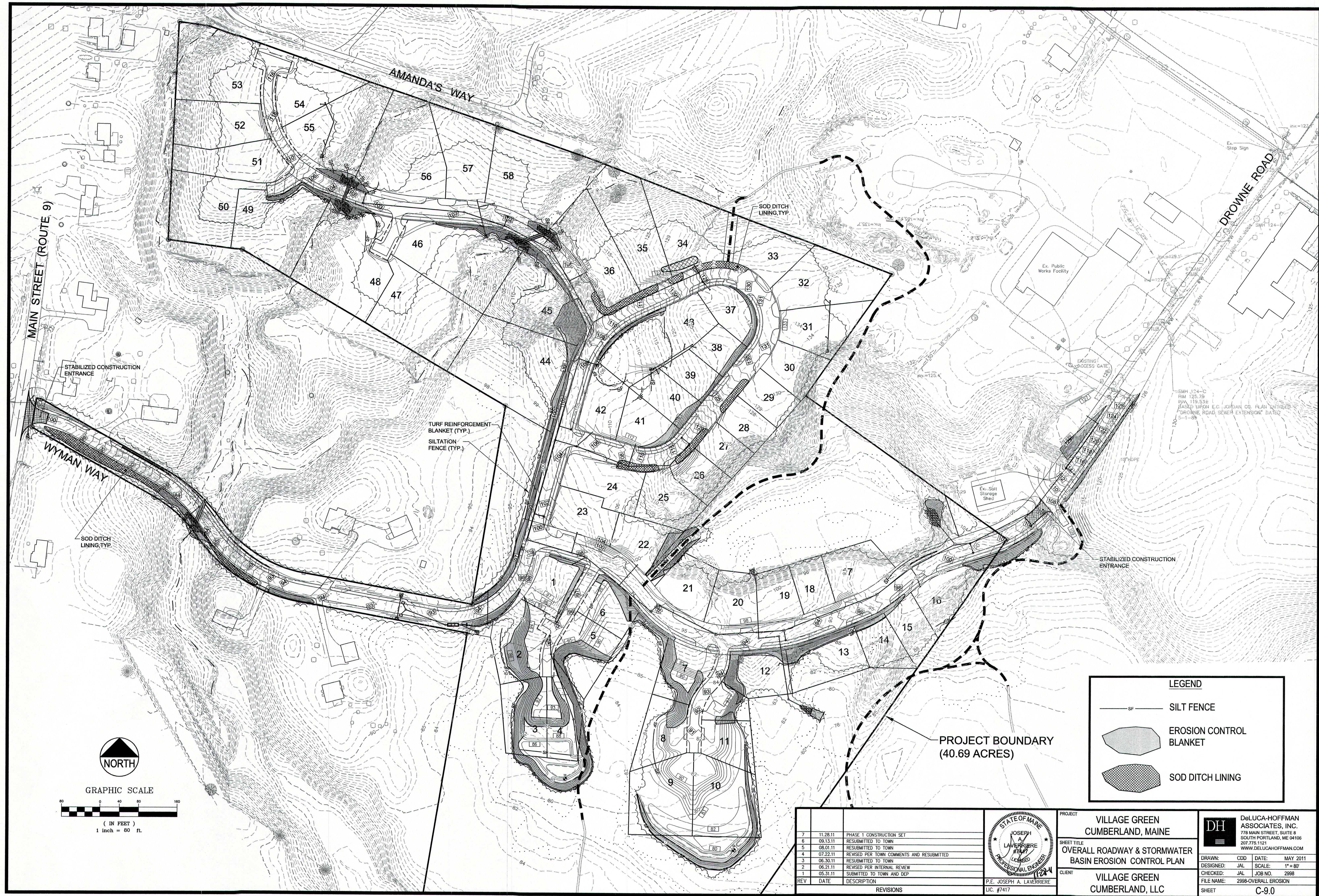


OWNER
VILLAGE GREEN
CUMBERLAND, LLC

CIVIL ENGINEER
DeLUCA-HOFFMAN
ASSOCIATES, INC.

LANDSCAPE ARCHITECT
ANTHONY MUENCH

R:\2998 Bateman Cumberland\CADD\CONSTRUCTION SET\DWG\2998-OVERALL EROSION.dwg, C:\9.0 EROSION ROAD & SD BASIN, 11/30/2011 3:37:15 PM, cdube



LEGEND

SF

SILT FENCE

EROSION CONTROL
BLANKET

SOD DITCH LINING

REV	DATE	DESCRIPTION
7	11.28.11	PHASE 1 CONSTRUCTION SET
6	09.13.11	RESUBMITTED TO TOWN
5	08.01.11	RESUBMITTED TO TOWN
4	07.22.11	REVISED PER TOWN COMMENTS AND RESUBMITTED
3	06.30.11	RESUBMITTED TO TOWN
2	06.21.11	REVISED PER INTERNAL REVIEW
1	05.31.11	SUBMITTED TO TOWN AND DEP

STATE OF MAINE

JOSEPH A. LAVERRIERE

PROFESSIONAL ENGINEER

1124

P.E. JOSEPH A. LAVERRIERE

LIC. #7417

PROJECT

VILLAGE GREEN
CUMBERLAND, MAINE

SHEET TITLE

OVERALL ROADWAY & STORMWATER
BASIN EROSION CONTROL PLAN

CLIENT

VILLAGE GREEN
CUMBERLAND, LLC

DH

DeLUCA-HOFFMAN
ASSOCIATES, INC.

778 MAIN STREET, SUITE 8
SOUTH PORTLAND, ME 04106
207.775.1121
WWW.DELUCAHOFFMAN.COM

DRAWN: CDD

DATE: MAY 2011

DESIGNED: JAL

SCALE: 1"=80'

CHECKED: JAL

JOB NO.: 2998

FILE NAME: 2998-OVERALL EROSION

SHEET

C-9.0

Erosion/Sedimentation Control Devices

As part of the site development, the contractor will be obligated to implement the following erosion and sediment control devices. These devices shall be installed as indicated on the plans or as described within this report. For further reference on these devices, see the Maine Erosion and Sediment Control BMPs prepared and maintained by the Maine Department of Environmental Protection.

1. Siltation fence shall be installed down slope of any disturbed areas to trap runoff-borne sediments until the site is revegetated. The silt fence shall be installed per the detail provided in the plan set and inspected immediately after each rainfall and at least daily during prolonged rainfall. The Contractor shall make repairs immediately if there are any signs of erosion or sedimentation below the fence line. If such erosion is observed, the contractor shall take proactive action to identify the cause of the erosion and take action to avoid its recurrence. Typically this requires stabilization methods be taken. Proper placement of stakes and keying the bottom of the fabric into the ground is critical to the fence's effectiveness. If there are signs of undercutting at the center or the edges, or pooling of water behind the fence, the barrier shall be replaced with a stone check dam and measures taken to avoid the concentration of flows not intended to be directed to the silt fence.

2. Straw or hay mulch including hydroseeding is intended to provide cover for denuded or seeded areas until revegetation is established. Mulching should be occurring seasonally per riprap before November 15th and at sufficient intervals to reduce the period of exposure of bare soils to the time limits set forth in this plan. Mulch placed on slopes of less than 10 percent shall be anchored by applying water; mulch placed on slopes steeper than 10 percent shall be covered with fabric netting as immediately after mulching as practicable and anchored with staples in accordance with the manufacturer's recommendations. Proposed drainage channels, which are to be revegetated, shall receive Curlex blankets by American Excavator or North American Green selected for the slope, velocity, and whether the measure is temporary or intended to be in place for a sustained period. Mulch application rates are provided in Attachment A of this section. Hay mulch shall be available on site at all times in order to provide immediate temporary stabilization when necessary. Where necessary a window of crushed stone and or gravel shall be placed at the top of the slope and directed to a temporary stone channel or pipe sluice to convey runoff down slopes. A disposition device such as stone or a plunge pool should be installed at the base of the slope and sluice outlet to dissipate the energy of the water from the sluice or channel.

3. Water quality wet pond and underdrained filter basins will be constructed to provide sedimentation control for stormwater runoff from the roadway and building areas during and after construction.

4. Riprap slopes, ditch linings, stone check dams, hay bale barriers, and culvert outlet aprons are intended to and protect denuded soil surfaces or dissipate the energy and erosive forces from concentrated flows. Installation details and stone sizes are provided in the construction plan set on the erosion control detail sheets.

5. A construction entrance will be constructed at all access points onto the site to prevent tracking of soil onto adjacent local roads. Primary construction vehicle access will be via Drowne Road. Stone sediment traps or hay bales and a premanufactured SiltSack® will be installed at catch basin inlets to prevent soil from entering the storm drain system. Installation details are provided in the plan set on the erosion control detail sheets.

7. Ditches will be required to be on site and available for construction dewatering. The use of Ditches will be required in the event that trench dewatering activities can not be discharged through a natural buffer area at least 100' in length or at the signs of any turbid discharge from the site.

8. Loam and seed is intended to serve as the primary permanent revegetative measure for all denuded areas not provided with other erosion control measures, such as riprap. Specific areas as shown on the landscape plan will receive sod. Application rates are provided in Attachment A of this section for temporary and permanent seeding in non-wetland areas.

Temporary Erosion/Sedimentation Control Measures

The following are planned as temporary erosion/sedimentation control measures during construction:

1. A crushed stone-stabilized construction entrance shall be placed at any construction access points into the site. The locations of the construction entrances shown on the drawings should be considered illustrative and adjusted as appropriate and located at any area where tracking of mud and debris onto existing roads, previously paved areas within the project, or streets is a potential. Stone stabilized construction entrances will require the stone to be removed and replaced as it becomes covered or filled with mud and material tracked by vehicles exiting the site.

2. Siltation fence shall be installed along the downgradient side of the proposed improvement areas. The siltation fence will remain in place and properly maintained until the site is acceptably revegetated. Siltation fence is to be used along the contour of significant erosion on the erosion control plan site drawings. Siltation fence needs to be checked to insure the bottom is properly keyed in and inspected after significant rains. Wood chips from clearing are often used on the construction site in front of the silt fence to provide an extra margin of safety and security for the silt fence. This practice is encouraged, provided the chips are removed or dispersed into forested areas when the fence is removed.

3. Ditches shall be installed in accordance with the details in the plan set. The Ditches' function on the project is to receive any water pumped from excavations during construction. A Ditchbag shall be installed and prepared for operation prior to any trenching on site. When Ditchbags are observed to be at 50% capacity, they shall be cleaned or replaced. Stone under the Ditchbag shall be removed and replaced concurrently.

4. Temporary stockpiles of common excavation will be protected as follows:

a) Temporary stockpiles shall not be located within 100 feet of the wetlands and at least 50 feet upgradient of the perimeter silt fence.
b) Inactive stockpiles shall be stabilized within 5 days by either temporarily seeding the stockpile with a hydroseed method containing an emulsified mulch tackifier or by covering the stockpile with mulch. If necessary, mesh shall be installed to prevent wind from removing the mulch.

1. All denuded areas which have been rough graded shall receive mulch or erosion control mesh fabric within 7 days of initial disturbance of soil. Disturbed areas within 100' of the wetland edge must receive temporary erosion control measures within 48 hours.

2. All soils disturbed between November 1 and April 1 will be covered with mulch within 5 days of disturbance, prior to any predicted storm event of the equivalent of ½" of equivalent rainfall in a 24-hour period, or prior to any work shutdown lasting more than 35 hours (including weekends and holidays). The mulch rate shall be double the normal rate.

For work that is conducted between November 1 and April 15 of any calendar year, all denuded areas will be covered with hay mulch, applied at twice the normal application rate, and (in areas over 10% grade) anchored with a fabric netting. The time period for applying mulch shall be limited to 5 days for all areas or immediately in advance of a predicted rainfall event.

3. The access roads (after paving) as well as Drowne Road and Main Street shall be swept to control mud and dust as necessary. A street sweeper shall be available from the Contractor on immediate notice or as requested by the Owner, Town or regulatory agency.

4. Stone check dams or hay bale barriers will be installed at any evident concentrated flow discharge points during construction and earthwork operations.

5. Silt fencing with a maximum stake spacing of 6 feet should be used, unless the fence is supported by wire fence reinforcement of minimum 14 gauge and with a maximum mesh spacing of 6 inches, in which case stakes may be spaced a maximum of 10 feet apart. The bottom of the fence should be properly anchored a minimum of 6" per the plan detail and backfilled. Any silt fence identified by the owner or reviewing agencies, as not being properly installed during construction shall be immediately repaired in accordance with the installation details.

6. Storm drain catch basin inlet protection shall be provided through the use of stone sediment barriers or a premanufactured SiltSack® as distributed by A. H. Harris Company, Portland, Maine. Stone sediment barrier installation details are provided in the plan set. The barriers or SiltSack® shall be inspected after each rainfall and repairs made as necessary, including the removal of sediment. Sediment shall be removed and the barrier or SiltSack® restored to its original dimensions when the sediment has accumulated to ½ the design depth of the barrier. Sediment shall be removed from SiltSack® as necessary. Inlet protection shall be removed when the tributary drainage area has been stabilized.

7. All slopes over 3:1 shall receive erosion control mesh.

8. Additional siltation fences shall be installed as construction progresses.

9. Areas of visible erosion shall be stabilized with crushed stone.

10. Storm drain catch basin inlet protection shall be provided through the use of stone sediment barriers (paved areas) or hay bales (lawn areas) and a pre-manufactured SiltSack® as distributed by A. H. Harris Company, Portland, Maine. Stone sediment barrier installation details are provided in the plan set. The barriers or SiltSack® shall be inspected after each rainfall and repairs made as necessary, including the removal of sediment.

Standards for Stabilizing Sites for the Winter

The construction of the project may be a multi-season project. The contractor shall schedule the work to avoid construction of stormwater basins during the winter months. For permitted winter construction, the erosion control measures are substantially more stringent due to the cold temperatures and lack of weather which aids in drying the subgrade soils through evaporation.

The winter construction period is from November 1st through April 15th. If the construction site is not stabilized with pavement, aggregate subbase gravel, 90% mature vegetation cover or riprap before November 15th, then the site needs to be protected with over-winter stabilization. An area considered open is any area not stabilized with pavement, vegetation, mulching, erosion control mix, erosion control mats, riprap or subbase gravel.

During the periods of November 1st through April 15th, the Contractor shall install erosion control berms in lieu of silt fence.

During the winter construction period, a double row of sediment barriers (i.e. silt fence with hay bales or erosion control mix berms) will be placed between any natural resource (i.e. wetland, etc.) and the disturbed area.

In addition, during the winter construction period the amount of exposed area shall be limited to that which can be mulched within one day in the event of a predicted storm and shall not exceed a maximum open area of one-acre.

1. Standard for the timely stabilization of ditches and channels: The contractor shall construct and stabilize all stone-lined ditches and channels on the site by November 15th. The contractor shall construct and stabilize all grass-lined ditches and channels on the site by September 1st. If the contractor fails to stabilize a ditch or channel to be grass-lined by September 1st, then the contractor shall take one of the following actions to stabilize the ditch for late fall and winter.

i. Install a sod lining in the ditch. The contractor shall line the ditch with properly installed sod by October 1st. Proper installation includes the applicant pinning the sod onto the soil with wire pins, rolling the sod to guarantee contact between the sod and underlying soil, watering the sod to promote root growth into the disturbed soil, and anchoring the sod with jute or plastic mesh to prevent the sod strips from sloughing during flow conditions.

ii. Install a stone lining in the ditch. The contractor shall line the ditch with stone riprap by November 1st. The contractor shall hire a registered professional engineer to determine the stone size and lining thickness needed to withstand the anticipated flow velocities and flow depths within the ditch. If necessary, the contractor shall regrade the ditch prior to placing the stone lining so as to prevent the stone lining from reducing the ditch's cross-sectional area.

2. Standard for the timely stabilization of disturbed slopes: The contractor shall construct and stabilize stone-covered slopes by November 15th. The contractor shall seed and mulch all slopes to be vegetated by September 1st. The department will consider any area having a grade greater than 15% (10H:1V) to be a slope. If the contractor fails to stabilize any slope to be vegetated by September 15th, then the contractor shall take one of the following actions to stabilize the slope for late fall and winter.

i. Stabilize the soil with temporary vegetation and erosion control mesh. By October 1st the contractor shall seed the disturbed slope with winter rye at a seeding rate of 3 pounds per 1000 square feet and apply erosion control mats over the mulched slope. The contractor shall monitor growth of the rye over the next 45 days. If the rye fails to grow at least three inches or fails to cover at least 75% of the disturbed slope by November 15th, then the contractor shall cover the slope with a layer of wood waste compost as described in item ii of this standard or with stone riprap as described in item iv of this standard.

Stabilize the slope with sod. The contractor shall stabilize the disturbed slope with properly installed sod by October 1st. Proper installation includes the contractor pinning the sod onto the slope with wire pins, rolling the sod to guarantee contact between the

i. sod and underlying soil, and watering the sod to promote root growth into the disturbed soil. The contractor shall not use late-season sod installation to stabilize slopes having a grade greater than 33% (2H:1V) or having groundwater seeps on the slope face.

ii. Stabilize the slope with wood waste compost. The contractor shall place a six-inch layer of wood waste compost on the slope by November 15th. Prior to placing the wood waste compost, the contractor shall remove any snow accumulation on the disturbed slope. The contractor shall not use wood waste compost to stabilize slopes having grades greater than 50% (2H:1V) or having groundwater seeps on the slope face.

iii. Stabilize the slope with stone riprap. The contractor shall place a layer of stone riprap on the slope by November 15th. The contractor shall hire a registered professional engineer to determine the stone size needed for stability and to design a filter layer for underneath the riprap.

3. Standard for the timely stabilization of disturbed soil: By September 15th, the contractor shall seed and mulch all disturbed soils on areas having a slope less than 15%. If the contractor fails to stabilize these soils by this date, then the contractor shall take one of the following actions to stabilize the soil for late fall and winter.

i. Stabilize the soil with temporary vegetation. By October 1st, the contractor shall seed the disturbed soil with winter rye at a seeding rate of 3 pounds per 1000 square feet, lightly mulch the seeded soil with hay or straw at 75 pounds per 1000 square feet, and anchor the mulch with plastic netting. The contractor shall monitor the growth of the rye over the next 45 days. If the rye fails to grow at least three inches or fails to cover at least 75% of the disturbed soil before November 1st, then the contractor shall mulch the area for over-winter protection as described in item ii of this standard.

ii. Stabilize the soil with sod. The contractor shall stabilize the disturbed soil with properly installed sod by October 1st. Proper installation includes the contractor pinning the sod onto the soil with wire pins, rolling the sod to guarantee contact between the sod and underlying soil, and watering the sod to promote root growth into the disturbed soil.

iii. Stabilize the soil with mulch. By November 15th, the contractor shall mulch the disturbed soil by spreading hay or straw at a rate of at least 150 pounds per 1000 square feet on the area so that no soil is visible through the mulch. Prior to applying the mulch, the contractor shall remove any snow accumulation on the disturbed area. Immediately after applying the mulch, the contractor shall anchor the mulch with plastic netting to prevent wind from moving the mulch off the disturbed soil.

4. Standard for timely stabilization of Soil Stockpiles: Stockpiles of soil or subsoil will be mulched for over winter protection with hay or straw at twice the normal application rate or with a four-inch thick layer of erosion control mix. This will be completed within 24-hours of stockpiling or re-established prior to any predicted rainfall or snowfall event. Any soil stockpile will not be placed (even covered with mulch) within 100 feet from a natural resource (i.e. wetland, etc.).

Special Measures for Summer Construction

The summer period is generally optimum for construction in Maine but it is also the period where intense short duration storms are most common making denuded areas very susceptible to erosion, where dust control needs to be the most stringent, and where the potential to establish vegetation is often restricted by moisture deficit. During these periods the contractor must:

1. Implement a program to apply dust control measures on a daily basis except those days where the precipitation exceeds 0.25 inches;
2. Spray the mulch after anchoring with water to dampen the soil and encourage early growth. Temporary seed may be required until the late summer seeding season.
3. Mulch, cover, and moisten stockpiles of fine-grained materials that are susceptible to erosion.
4. Take additional steps needed to control fugitive dust emissions to minimize reductions in visibility and the airborne disbursement of fine-grained soils.

These measures may also be required in the spring and fall during the drier periods of these seasons.

Sedimentation Sumps

The use of shallow sediment sumps on the downgradient side of erodible stockpiles and areas where denuded conditions will be prolonged is encouraged. The stormwater filter basins may be used as temporary sediment sump, if the filter and underdrain are not installed until the up-gradient area is stabilized or unless a sacrificial filter fabric is placed above the filter to protect the area until the site has been stabilized.

Permanent Erosion Control Measures

The following permanent erosion control measures have been designed as part of the Erosion/Sedimentation Control Plan:

1. The drainage convergence systems have been designed to intercept and convey the 25-year storm. In the case of open channels or swales, this includes the design of measures to resist scour of the channel.

2. All storm drain pipes shall have riprap aprons at their outlet to protect the outlet and receiving channel of the culverts from scour and deterioration. Installation details are provided in the plan set. The aprons shall be installed and stabilized prior to directing runoff to the tributary pipe or culvert.

3. All areas disturbed during construction, but not subject to other restoration (paving, riprap, etc.) will be loamed, limed, fertilized, mulched, and seeded. Fabric netting, anchored with staples, shall be placed over the mulch in areas where the finish grade slope is greater than 10 percent. Native topsoil shall be stockpiled and temporarily stabilized with seed and mulch and reused for final restoration when it is of sufficient quality.

4. Catch basins shall be provided with sediment sumps for all outlet pipes that are 12" in diameter or greater. Catch basins have been designed with an under drain connection to allow the subbase gravel to drain and reduce frost heave and movement at the basin.

5. Permanent stormwater retention ponds with underdrain filters will be installed. These shallow underdrain filters are designed to capture approximately the one-year storm event and release over a 24-30 hour period.

Timing and Sequence of Erosion/Sedimentation Control Measures

The following construction sequence shall be required to insure the effectiveness of the erosion and sedimentation control measures are optimized.

Note: For all grading activities, the Contractor shall exercise extreme caution not to overexpose the site by limiting the disturbed area and shall stabilize any steep slopes within 24 hours if final slope grading and stabilization will not be completed within 7 days. Any final slopes shall have the specified erosion control measures installed within 7 days of final stabilization.

1. Install crushed stone-stabilized construction entrance as shown on the Erosion and Sedimentation Control Plan.
2. Mark the grading and clearing limits and install clearing that will permit the contractor to access the site and install silt fence.
3. Install siltation fence where shown on the contract drawings. During periods of November 1st through April 15th, the Contractor shall install erosion control mix berms in lieu of silt fence.
4. Establish and prepare Ditchbag area.
5. Construct the modifications to the existing pond to create a stabilized outlet as well as construction of the two underdrained soil filter basins.
6. Cover the water quality filter with a protective drainage filter fabric that can be removed after turf establishment.
7. Construct diversion and drainage channels to direct flow to the stormwater facilities from the lot development and roadway areas.
8. Prepare area to receive excavated material recognizing the need to limit the denuded area of the site.
9. Construct the access roads to subgrade and restore the slopes.
10. Install stone and hay bale check dams at any concentrated flow discharge points.
11. Install storm drain and other utility work. Subgrade inlet and outlet protection immediately after the installation of any culverts. Pump any accumulated water within the trenches to a Ditchbag.
12. Place gravels in the roadways as soon as installation is prepared to minimize the period that the unprotected subgrade is exposed and vulnerable to erosion from runoff events.
13. Raise catch basins to grade and install inlet protection devices including the underdrain at each catch basin, the SiltSack® inside the basin and the external hay bales or stone filter.
14. Install binder pavement.
15. Loam, lime, fertilize, seed and mulch all disturbed and denuded areas.
16. Remove all accumulated sediment from silt barriers.
17. Review stability of the site. Removal of erosion control measures shall be performed within 30 days of establishing permanent stabilization. Permanent stabilization in grassed areas is established with 90% catch of grass with no evidence of filling or erosion.

This sequence is applicable to both the initial and subsequent phases of the project.

Soil will be considered disturbed if it does not have an established stand of vegetation covering at least 90% of the soil surface or has not been mulched with hay applied at a rate of 230-lb./1000 sq. ft.

It is anticipated that site work may be suspended prior to winter. If so, the General Contractor shall schedule a meeting with the MeDEP, Owner, and Owner's representatives to review the site for conformance with the plan. This meeting shall be scheduled at least 10 days prior to winter shutdown. The Owner may elect to provide the Contractor with a punch list for measures to be complete before the interim shutdown. The Owner's punch list shall not violate the Contractor's responsibility for compliance with the erosion control requirements of the project or permits.

Individual Lot Development

The scheduling of individual lot development is anticipated to commence as soon as the access is available for lot development. Each individual lot development will be required to establish a site-specific erosion control plan to be submitted to the Town of Cumberland as part of the building permit application. The individual lot development plans shall provide the following implementation schedule:

1. Install crushed stone stabilized construction entrance and siltation fence.
2. Clear and grub areas within lot work area. Strip lot work area of loam material and stockpile.
3. During grubbing operations, install stone check dams at any evident concentrated flows.
4. Begin general earthwork operations to establish site to subgrade elevations, including erosion control measures (i.e., riprap aprons, etc.). Begin building foundation and installation of underground utility services.
5. Install base and subbase gravels and pavement.
6. Loam, lime, fertilize, seed and mulch disturbed areas.
7. Remove accumulated sediment from ahead of any silt barriers (as necessary).
8. Once the site is stable and a 75% catch of vegetation has been obtained, remove all temporary erosion control measures.
9. Touch up loam and seed.

Further reference is made to Section I-4 "House Lot Development" of the Maine Erosion and Sediment Control BMP manual prepared by the MeDEP, including sample lot development plans, which is contained on Sheet C-9.3 of the plan set.

Provisions for Maintenance of the Erosion/Sedimentation Control Features

The construction of the access road and utility infrastructure improvements to serve the development will be contracted by Village Green Cumberland, LLC. Individual site development work will be contracted separately by either Village Green Cumberland, LLC or each lot owner. The project is subject to the requirement of a MeDEP Site Location of Development Permit, MeDEP Natural Resources permits, federal 404 wetland permits, and a MeDEP General Permit for Stormwater Pollution Prevention. This project requires the Contractor to prepare a list and designate by name, address and telephone number all individuals who will be responsible for implementation, inspection and maintenance of all erosion control measures identified within this section and as contained in the Erosion and Sedimentation Control Plan of the contract drawings. Specific responsibilities of the inspector(s) will include:

1. Execution of the Contractor/Subcontractor Certification contained in Attachment C by any and all parties responsible for erosion control measures on the site as required by the forms.
2. Assuring and certifying the Owner's construction sequence and all subcontractors are in conformance with the specified schedule of this section. A weekly certification stating compliance, any deviations, and corrective measures necessary to comply with the erosion

control requirements of this section shall be prepared and signed by the inspector(s). In the event that the site work is subcontracted, this certification shall be signed by both the General and Site Work contractors.

3. In addition to the weekly certifications, the inspector(s) shall maintain written reports recording construction activities on site which include:

- Dates when major grading activities occur in a particular area.
- Dates when major construction activities cease in a particular area, either temporarily or permanently.
- Dates when an area is stabilized.

4. Inspection of this project work site on a weekly basis and after each significant rainfall event (0.5 inches or more within any consecutive 24-hour period) during construction until permanent erosion control measures have been properly installed and the site has been stabilized. Inspection of the project work site shall include:

- Identification of proper erosion control measure installation in accordance with the erosion control detail sheet or as specified in this section.
- Determine whether each erosion control measure is properly operating. If not, identify damage to the control device and determine remedial measures.
- Identify areas that appear vulnerable to erosion and determine additional erosion control measures, which should be used to improve conditions.
- Inspect areas of recent seeding to determine percent catch of grass. A minimum catch of 75 percent is required prior to removal of erosion control measures. Accumulated silt/sediment should be removed when the depth of sediment reaches 50 percent of the barrier height. Accumulated silt/sediment should be removed from behind silt fencing when the depth of the sediment reaches 6 inches.

SiltSack® should be removed and replaced at least every three months and at any time where the weekly inspection reveals that siltation has significantly reduced the rate of flow through the SiltSack®.

6. If inspection of the site indicates a change should be made to the erosion control plan, either to improve effectiveness or correct a site-specific deficiency, the inspector shall immediately implement the corrective measure and notify the owner of the change.

Once construction has been completed, long-term maintenance of the detention pond and catch basins will be the responsibility of the applicant. The catch basin sumps shall be inspected in April and October of each year. Sediment shall be removed when the depth of sediment reaches one-half the depth of the sump.

All certifications, inspection forms, and written reports prepared by the inspector(s) shall be filed with the Owner, and the Permit File contained on the project site. All written certifications, inspection forms, and written reports must be filed within one (1) week of the inspection date.

The Contractor has sole responsibility for complying with the erosion/sediment control report and shall be responsible for any monetary penalties resulting from failure to comply with these standards.

Preconstruction Conference

Prior to any construction at the site, representatives of the Contractor, MeDEP and Town officials, and the site design engineer shall arrange for and meet with the Owner to discuss the scheduling of the site construction, the designation of the responsible parties for implementing the plan. This meeting shall be scheduled by the Contractor with reasonable advance notice for all attendees. Prior to the meeting the Contractor shall prepare a detailed schedule and a marked-up site plan indicating areas and components of the work and key dates showing date of disturbance and completion of the work. If bid through a general contractor, the general contractor's superintendent shall provide a written acknowledgment that the erosion control plan has definitive dates for implementation that may supersede the building schedule. The contractor shall conduct a meeting with employees and sub-contractors to review the erosion control plan, the construction techniques which will be employed to implement the plan, and provide a list of attendees and items discussed at the meeting to the Owner. Three copies of the schedule, the contractor's meeting minutes, and marked-up site plan shall be provided to the Owner at the preconstruction meeting.

SEEDING PLAN: LAWN OR LANDSCAPE TURF

Project Village Green

Site Location Cumberland, Maine

X Permanent Seeding Temporary Seeding

1. Area to be seeded: TBD acres, OR M Sq. Ft.
2. Instructions on preparation of soil: Prepare a good seed bed for planting method used.
3. Apply lime as follows: #/acres, OR 115 #/M Sq. Ft.
4. Fertilize with pounds of - N-P-K/ac. OR 20 pounds of organic 10-20-20 N-P-K/M Sq. Ft.
5. Method of applying lime and fertilizer: Spread and work into the soil before seeding.
6. Seed with the following mixture:
35% Perennial Rye
25% Kentucky Bluegrass
40% Penn Lawn Tall Fescue

When using small grain as nurse crop seed it at one-half the normal seeding rate.

7. Mulching instructions: Apply at the rate of tons per acre OR 115 pounds per M. Sq. Ft.

Amount Unit #, Tons, Etc.
8. TOTAL LIME..... 115 #/1000 sq. ft.
9. TOTAL FERTILIZER..... 20 #/1000 sq. ft.
10. TOTAL SEED..... 8.0 #/1000 sq. ft.
11. TOTAL MULCH..... 115 #/1000 sq. ft.
12. TOTAL other materials, seeds, etc.....

REMARKS

• Spring seeding is recommended; however, late summer (prior to September 1) seeding may be made. Permanent seeding should be made prior to October 15 or as a dormant seeding after the first killing frost and before the first snowfall. If seeding cannot be done within these seeding dates, temporary seeding and mulching shall be used to protect the site. Permanent seeding shall be delayed until the next recommended seeding period.

• Fertilizer requirements shall be subject to actual test results of the topsoil used for the project. The Contractor shall be responsible for providing topsoil test results for pH and recommended fertilizer application rates to the Owner. pH should be between 6.0 and 8.0.

• Seed mixture shall be fresh, clean, new crop seed. Seed may be mixed by an appropriate method on the site or may be mixed by the dealer. If the seed is mixed on the site, each variety shall be delivered in the original containers bearing the dealer's guaranteed analysis. If seed is mixed by the dealer, the Seeding Contractor shall furnish to the Owner the dealer's guaranteed statement of the composition of the mixture and the percentage of purity and germination of each variety.

• Seed shall be purchased from a recognized distributor and shall test to a minimum percentage of 95% for purity and 85% for germination.

• All loam shall have compost or peat admixtures to raise the organic content to 8%.

SEEDING PLAN: EROSION CONTROL MIX

Project Village Green

Site Location Cumberland, Maine

X Permanent Seeding Temporary Seeding

1. Area to be seeded: TBD acres, OR M Sq. Ft.
2. Instructions on preparation of soil: Prepare a good seed bed for planting method used.
3. Apply lime as follows: #/acres, OR 115#/M Sq. Ft.
4. Fertilize with pounds of - N-P-K/ac. OR 20 pounds of 10-20-20 N-P-K/M Sq. Ft.
5. Method of applying lime and fertilizer: Spread and work into the soil before seeding.
6. Seed with the following mixture:

New England Erosion Control Seed Mix as manufactured by "New England Wetland Plants, Inc. - Amherst, MA" consisting of the following species:

Creeping Red Fescue Annual Rye-grass Indian Grass
Timothy White Clover
Red Top Little Bluestem

When using small grain as nurse crop seed it at one-half the normal seeding rate.

7. Mulching instructions: Apply at the rate of tons per acre. OR 230 pounds per M. Sq. Ft.

Amount Unit #, Tons, Etc.
8. TOTAL LIME..... 115 #/1000 sq. ft.
9. TOTAL FERTILIZER..... 20 #/1000 sq. ft.
10. TOTAL SEED..... 1 #/1000 sq. ft.
11. TOTAL MULCH..... 230 #/1000 sq. ft.
12. TOTAL other materials, seeds, etc.....

REMARKS

- For areas with slopes >10% and fall and winter erosion control areas, much netting shall be used per manufacturer's specifications.
- Spring seeding is recommended; however, late summer (prior to September 1) seeding can be made. Permanent seeding should be made prior to October 15 or as a dormant seeding after the first killing frost and before the first snowfall. If seeding cannot be done within these seeding dates, temporary seeding and mulching shall be used to protect the site. Permanent seeding shall be delayed until the next recommended seeding period.
- Fertilizer requirements shall be subject to actual test results of the topsoil used for the project. The Contractor shall be responsible for providing topsoil test results for pH and recommended fertilizer application rates to the Owner. pH should be between 5.5 and 7.5.
- All loam shall have compost or peat admixtures to raise the organic content to 8%.
- Seed mixture shall be fresh, clean, new crop seed. Seed may be mixed by an appropriate method on the site or may be mixed by the dealer. If the seed is mixed on the site, each variety shall be delivered in the original containers bearing the dealer's guaranteed analysis. If seed is mixed by the dealer, the Seeding Contractor shall furnish to the Owner the dealer's guaranteed statement of the composition of the mixture and the percentage of purity and germination of each variety.
- Seed shall be purchased from a recognized distributor and shall test to a minimum percentage of 95% for purity and 85% for germination.

SEEDING PLAN: WETLAND OR AREAS WITHIN 1 FOOT OF NORMAL WET AREAS

Project Village Green

Site Location Cumberland, Maine

X Permanent Seeding Temporary Seeding

1. Area to be seeded: TBD acres, OR M Sq. Ft.
2. Instructions on preparation of soil: Prepare a good seed bed for planting method used.
3. Apply lime as follows: #/acres, OR 115 #/M Sq. Ft.
4. Fertilize with pounds of N-P-K/ac. OR pounds of N-P-K/M Sq. Ft.
5. Method of applying lime and fertilizer: Spread and work into the soil before seeding.
6. Seed with the following mixture:

New England Wet Mix as manufactured by "New England Wetland Plants, Inc. - Amherst, MA" consisting of the following species:

Fox Sedge Bearded Sedge
Lurid Sedge Soft Rush
Grass-Leaved Goldenrod Boneset
Hop Sedge Blue Vervain
Nodding Sedge Green Bulrush
Sensitive Fern Blue Flag Iris
Woolgrass Spotted Joe
Pye Weed Swamp Milkweed
Monkey Flower Soft-Stem Bulrush
Hard-Stem Bulrush Nodding Bur Manjold
Flat-Top Aster

When using small grain as nurse crop seed it at one-half the normal seeding rate.

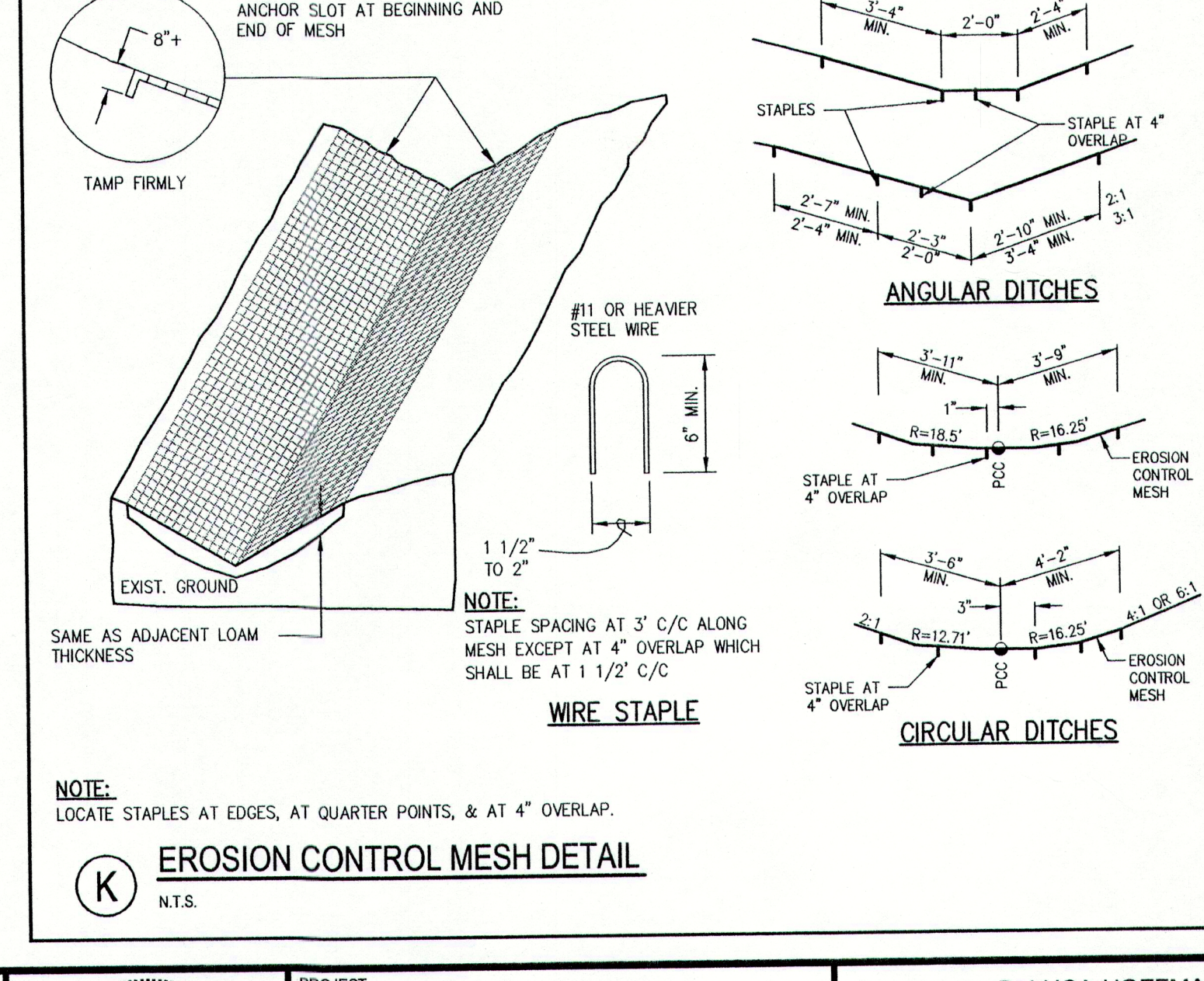
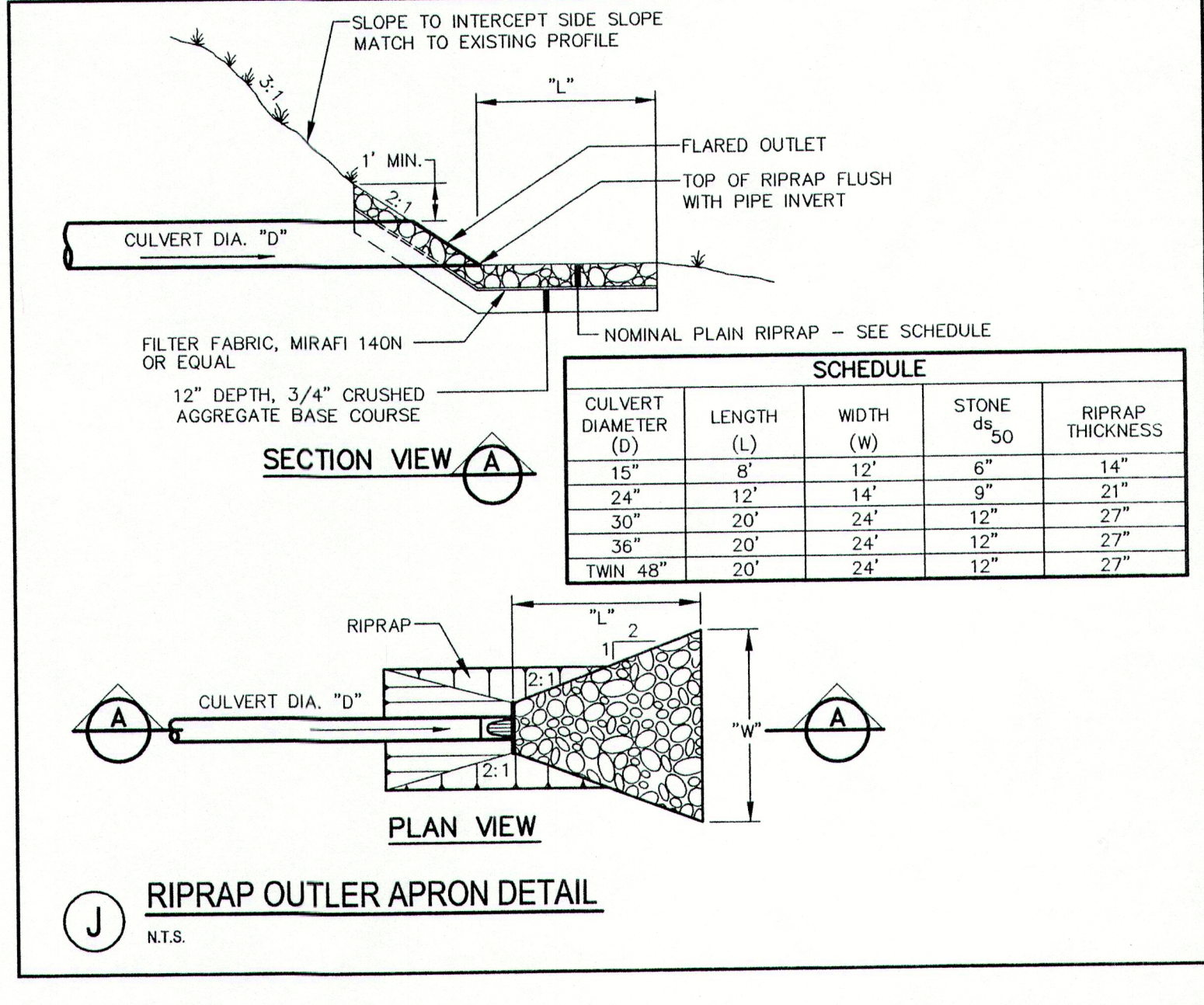
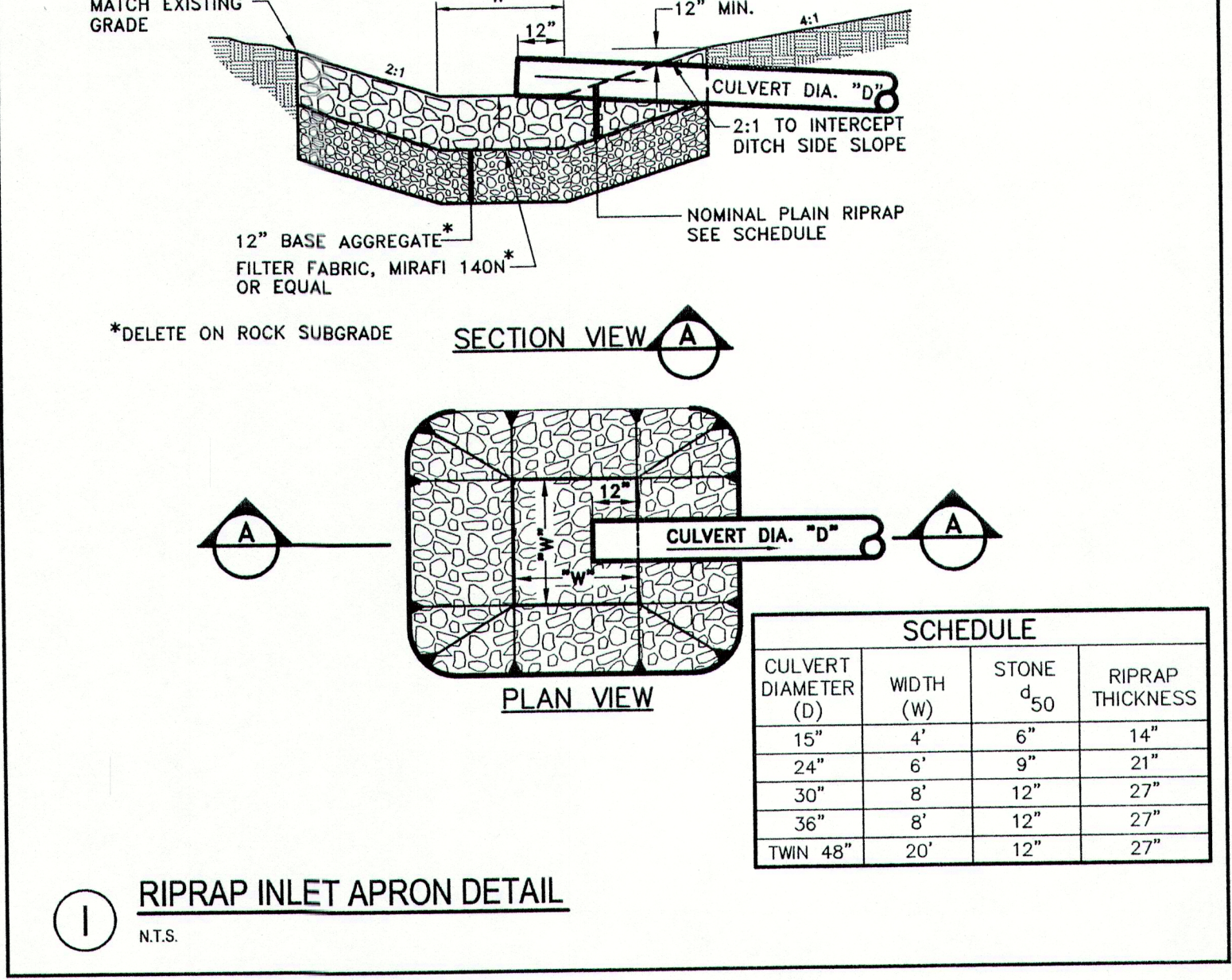
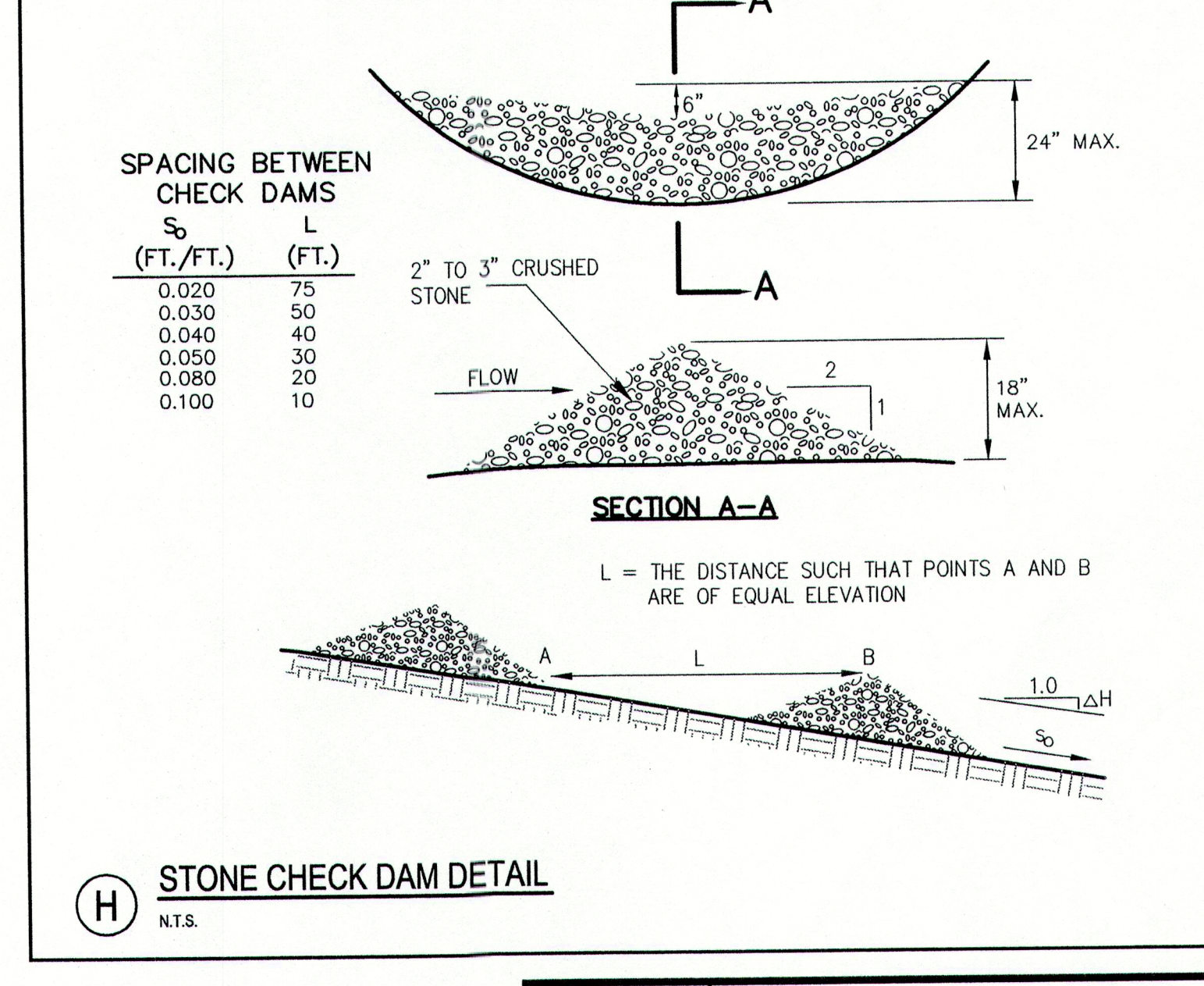
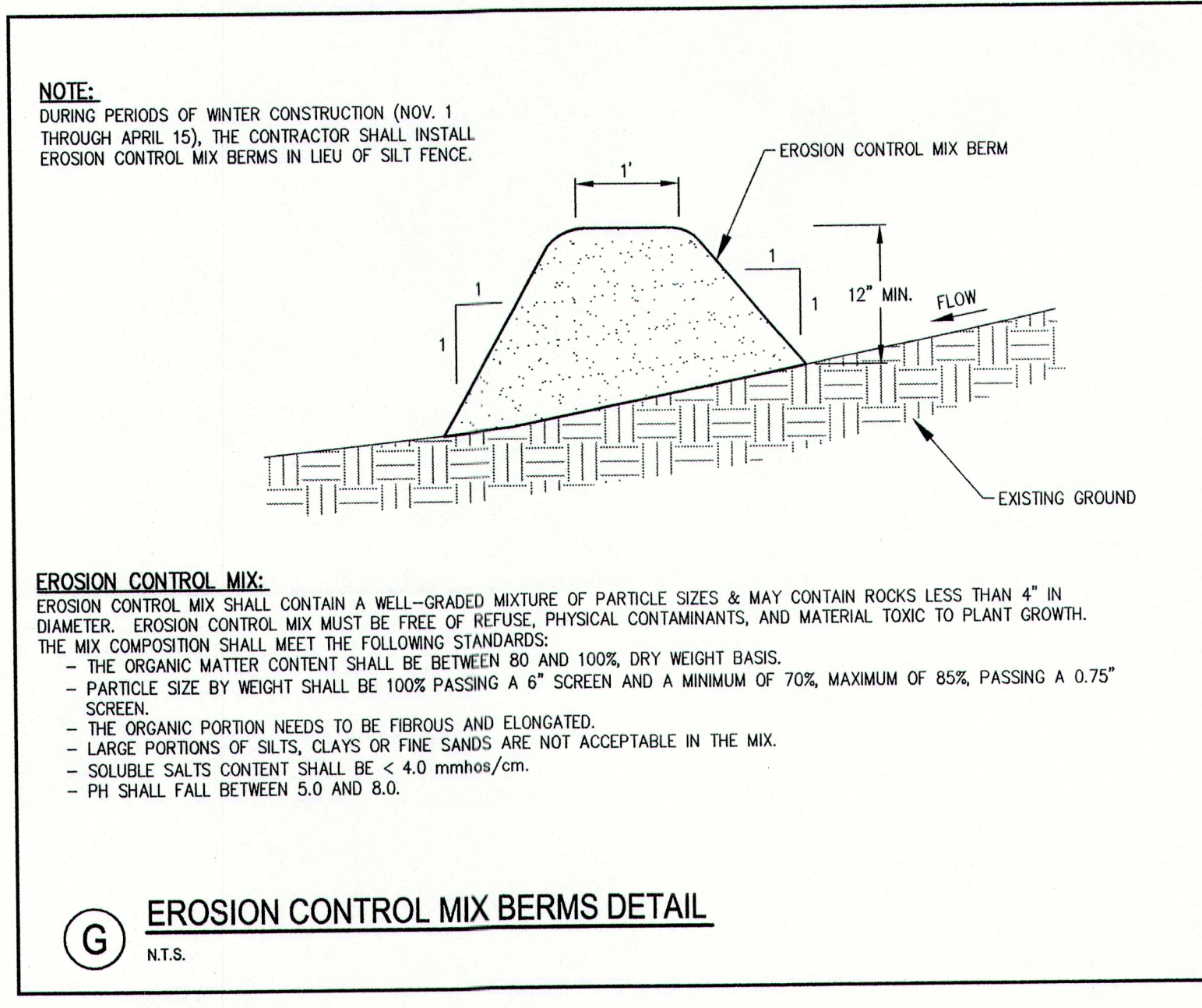
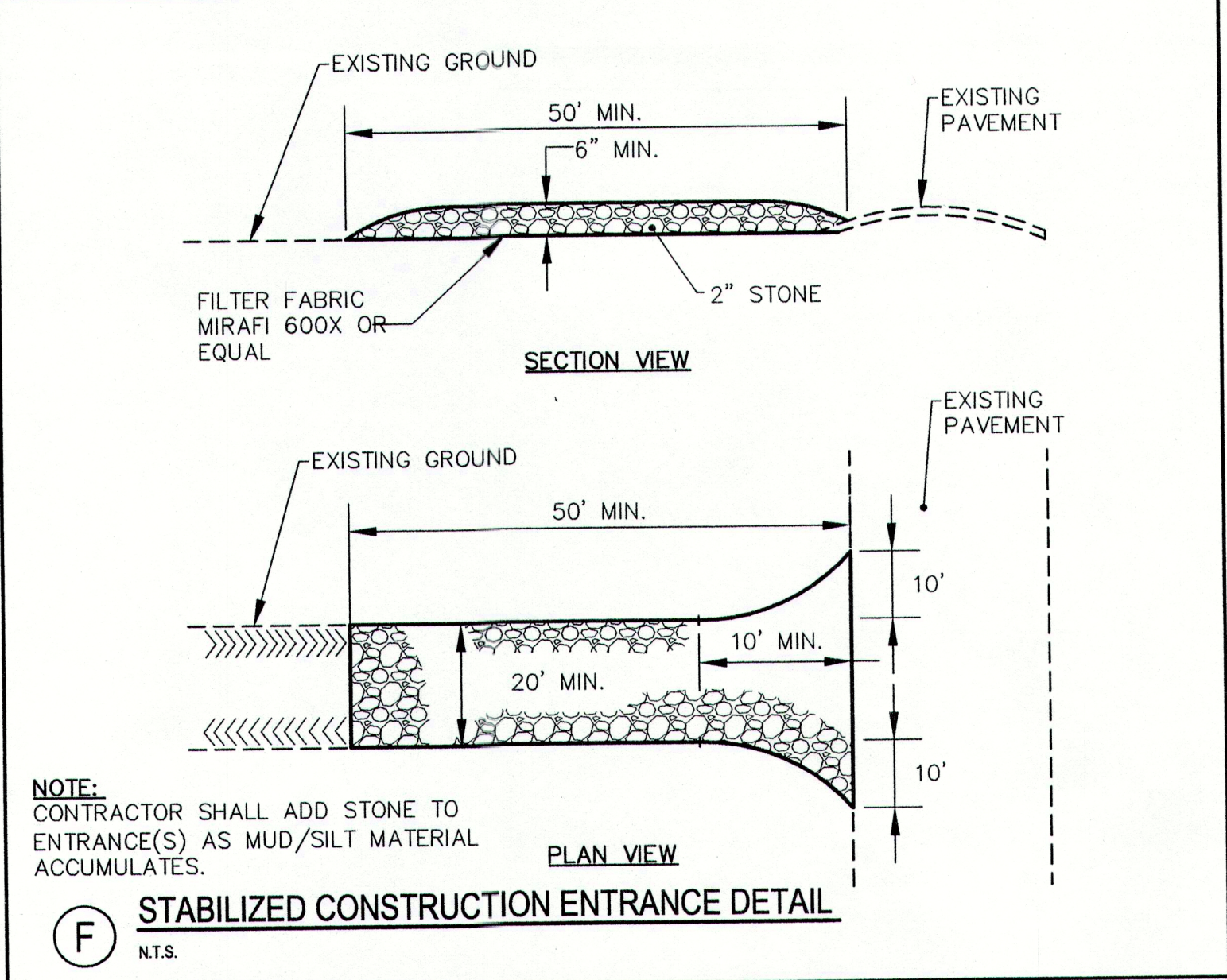
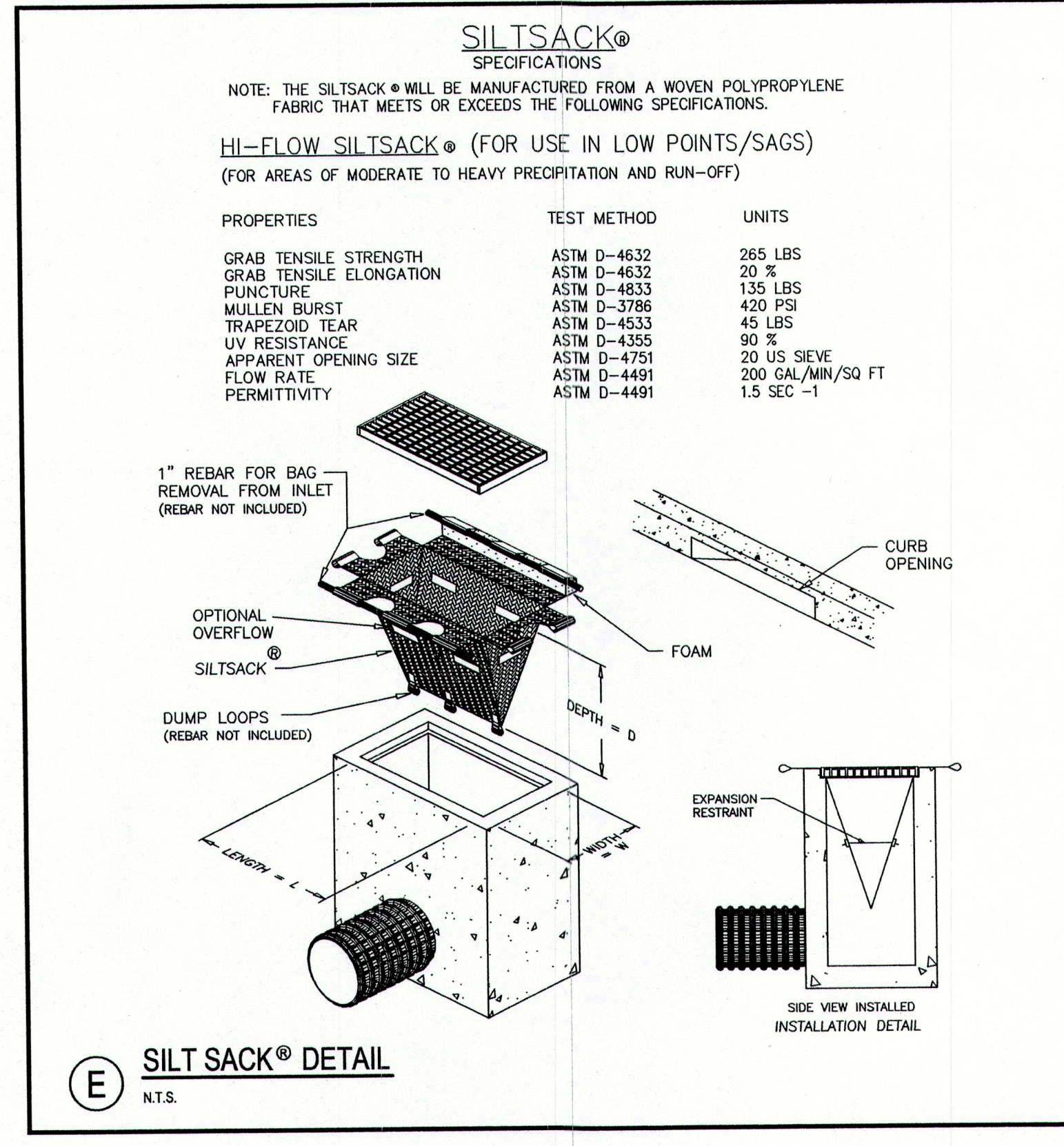
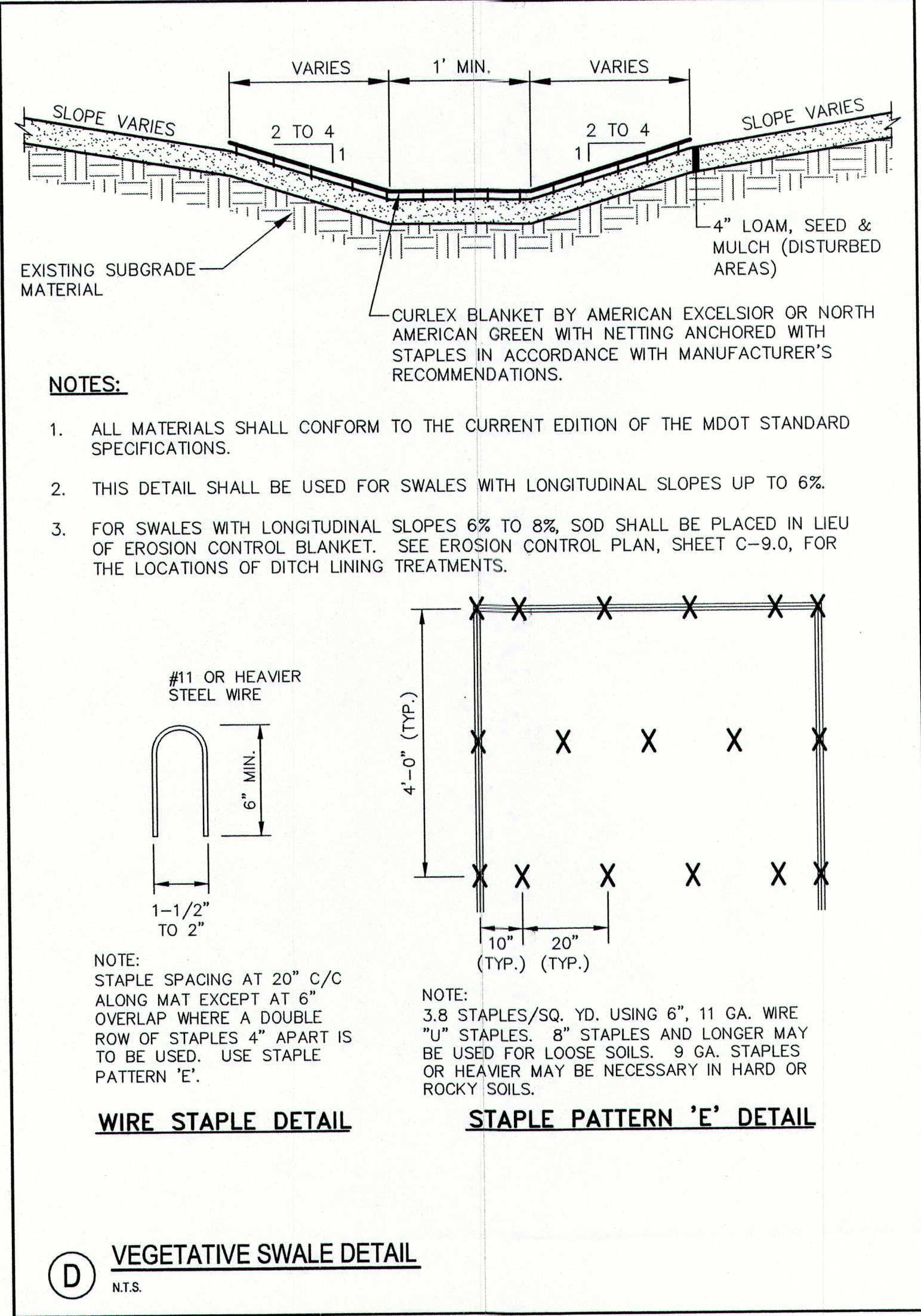
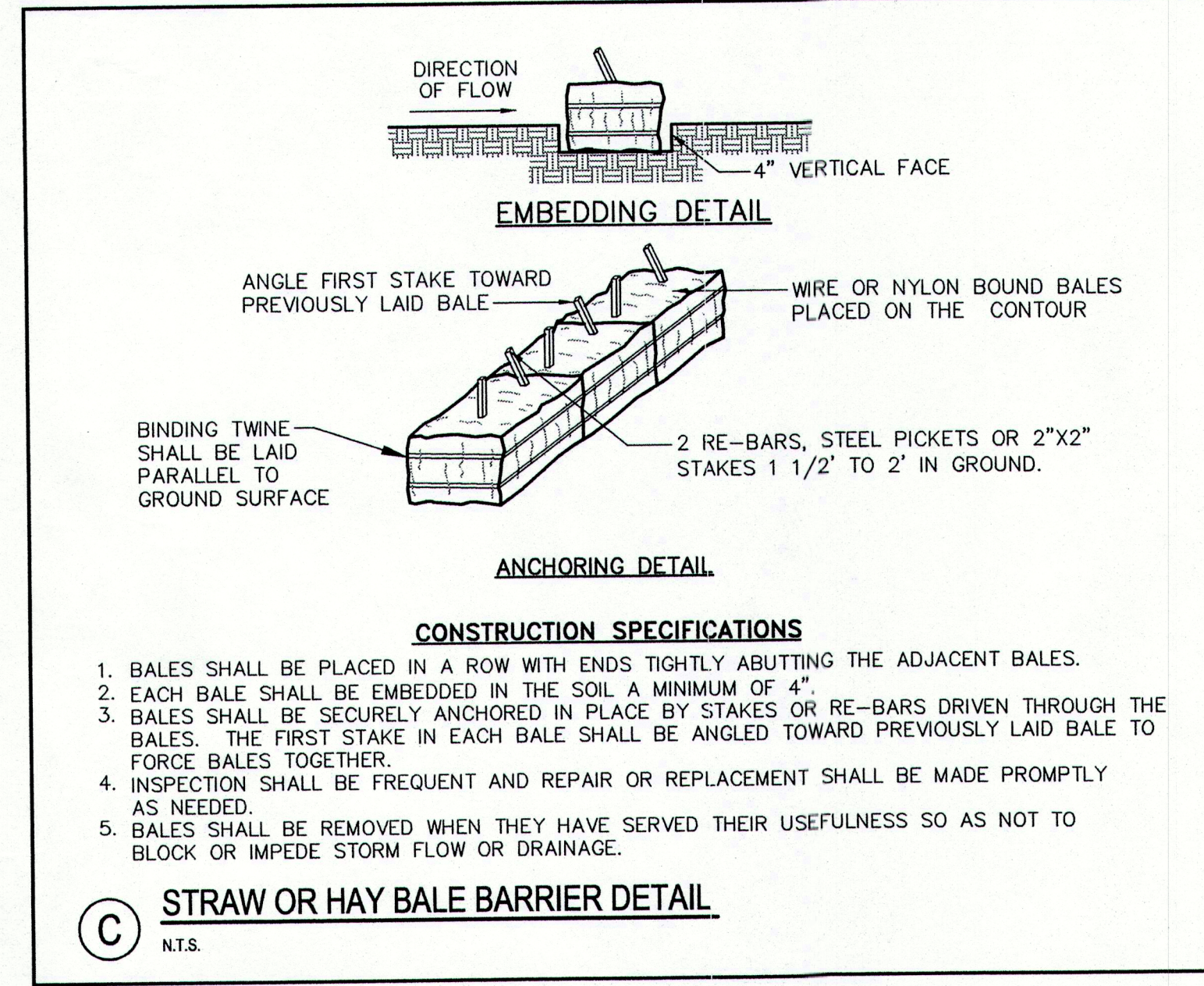
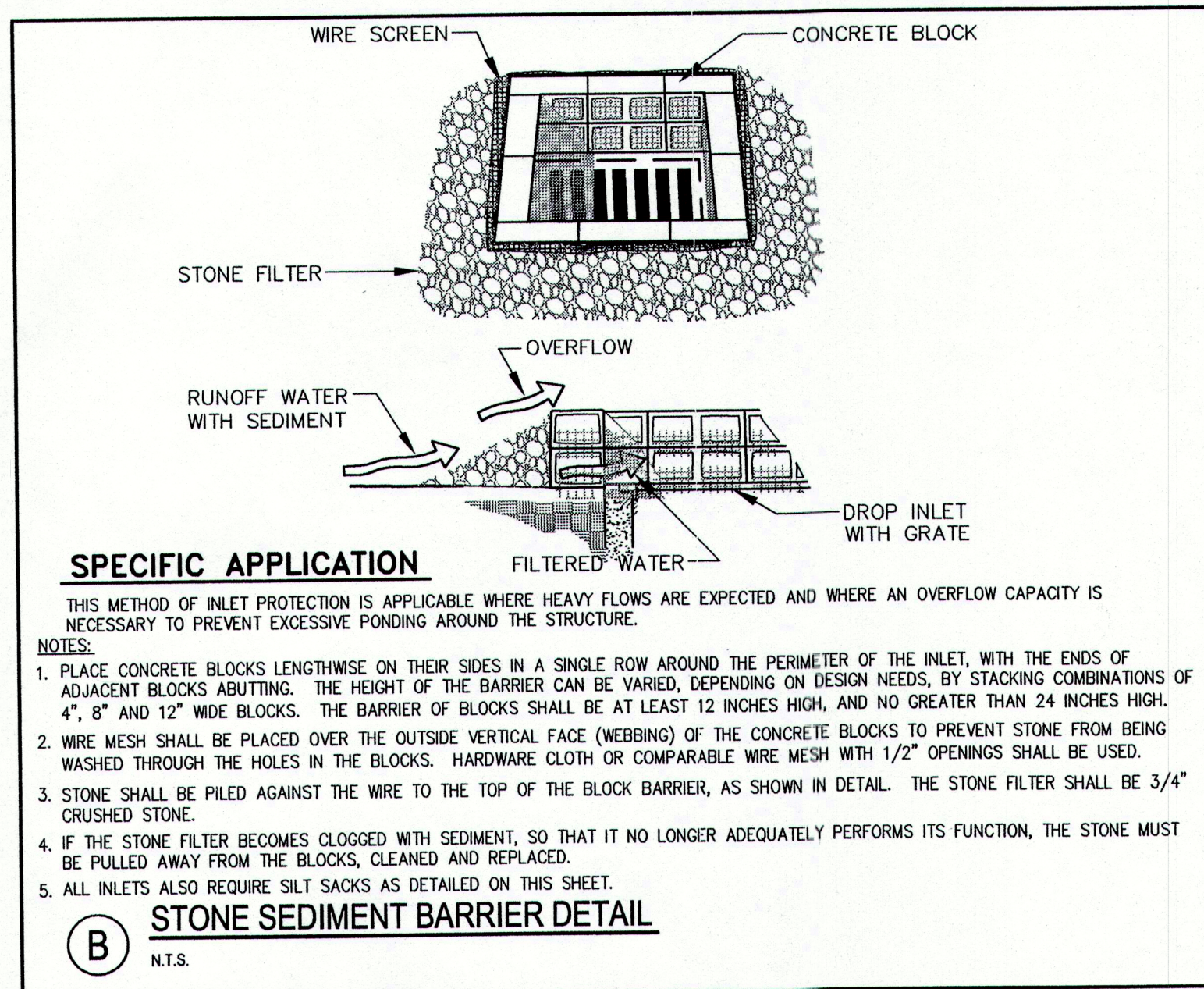
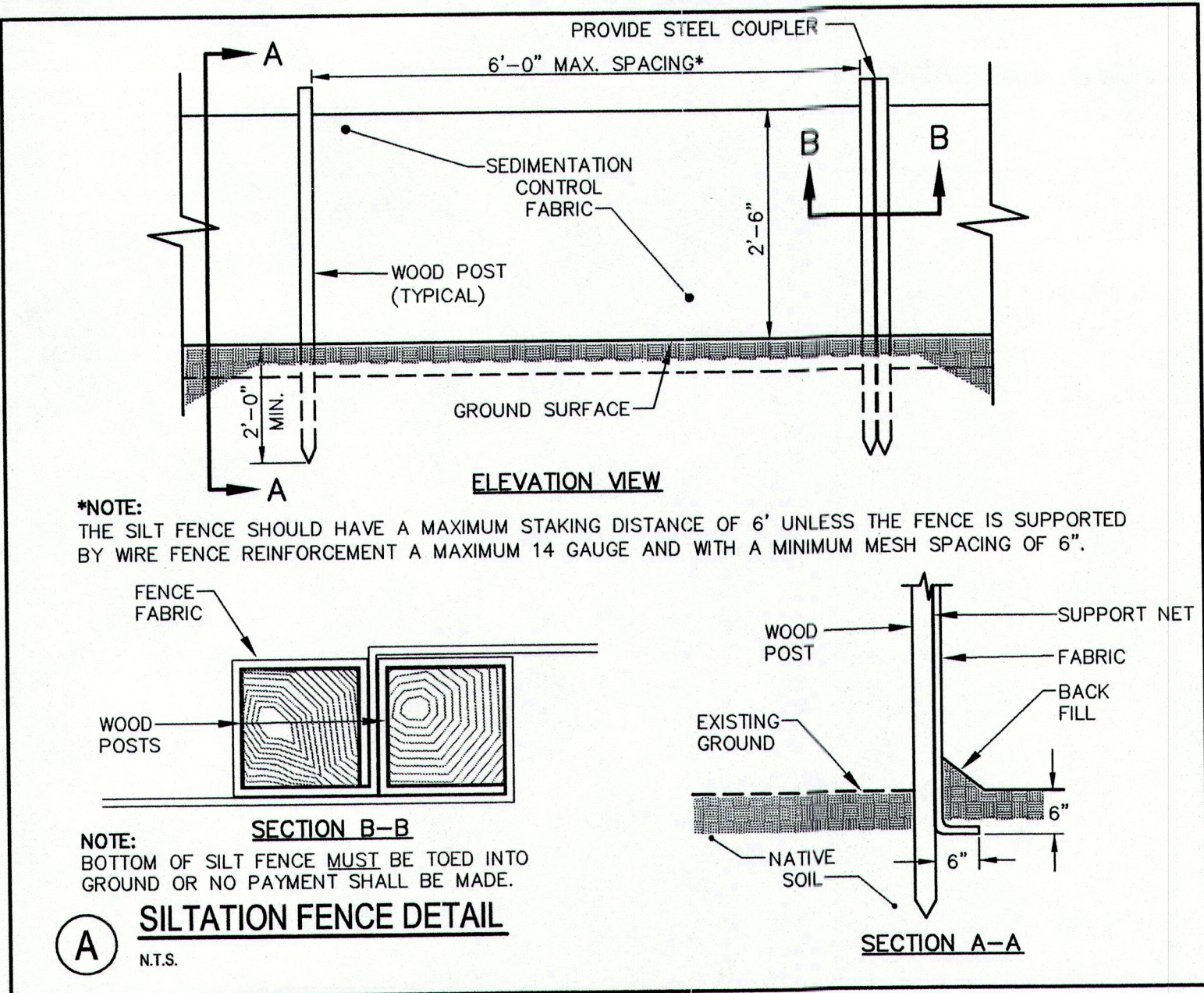
7. Mulching instructions: Apply at the rate of tons per acre OR 180 pounds per M. Sq. Ft.

Amount Unit #, Tons, Etc.
8. TOTAL LIME..... 115 #/1000 sq. ft.
9. TOTAL FERTILIZER..... 0 #/1000 sq. ft.
10. TOTAL SEED..... 0.5 #/1000 sq. ft.
11. TOTAL MULCH..... 115 #/1000 sq. ft.
12. TOTAL other materials, seeds, etc.....

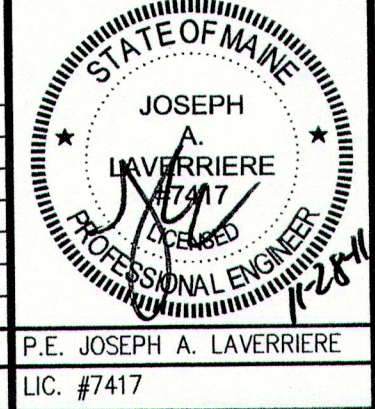
REMARKS

- The above seed mix is required in all temporarily disturbed wetland areas and bottom surface of water quality filtration areas and perimeter ring around stormwater management ponds.

- Spring seeding is recommended; however late summer (prior to September 1) seeding may be made at an increased rate.
- Fertilizer requirements shall be subject to actual test results of the topsoil used for the project. The Contractor shall be responsible for providing topsoil test results for pH and recommended fertilizer application rates to the Owner.
- Seed mixture shall be fresh, clean, new crop seed. Seed may be mixed by an appropriate method on the site or may be mixed by the dealer. If the seed is mixed on the site, each variety shall be delivered in the original containers bearing the dealer's guaranteed analysis. If seed is mixed by the dealer, the Seeding Contractor shall furnish to the Owner the dealer's guaranteed statement of the composition of the mixture and the percentage of purity and

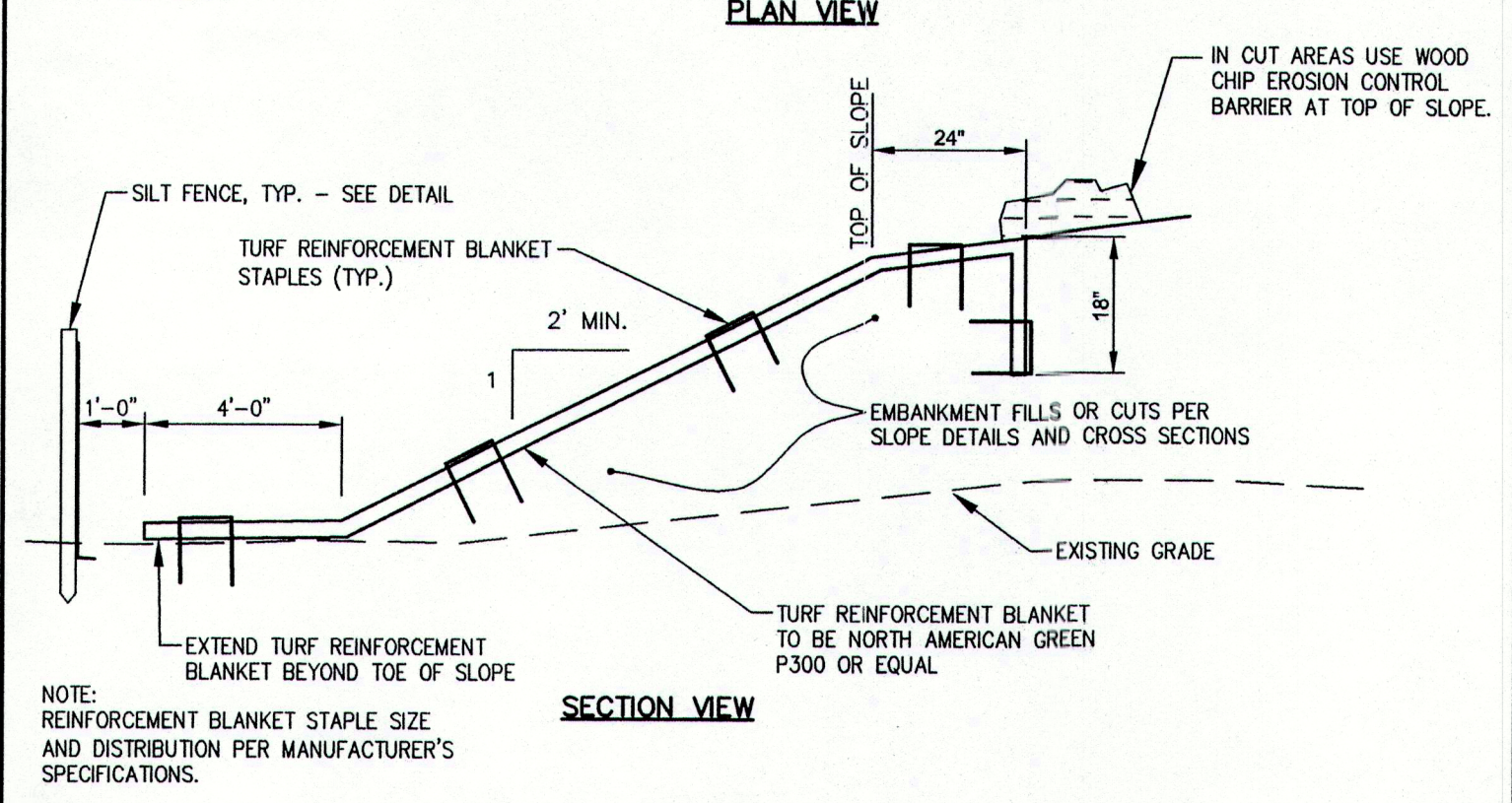
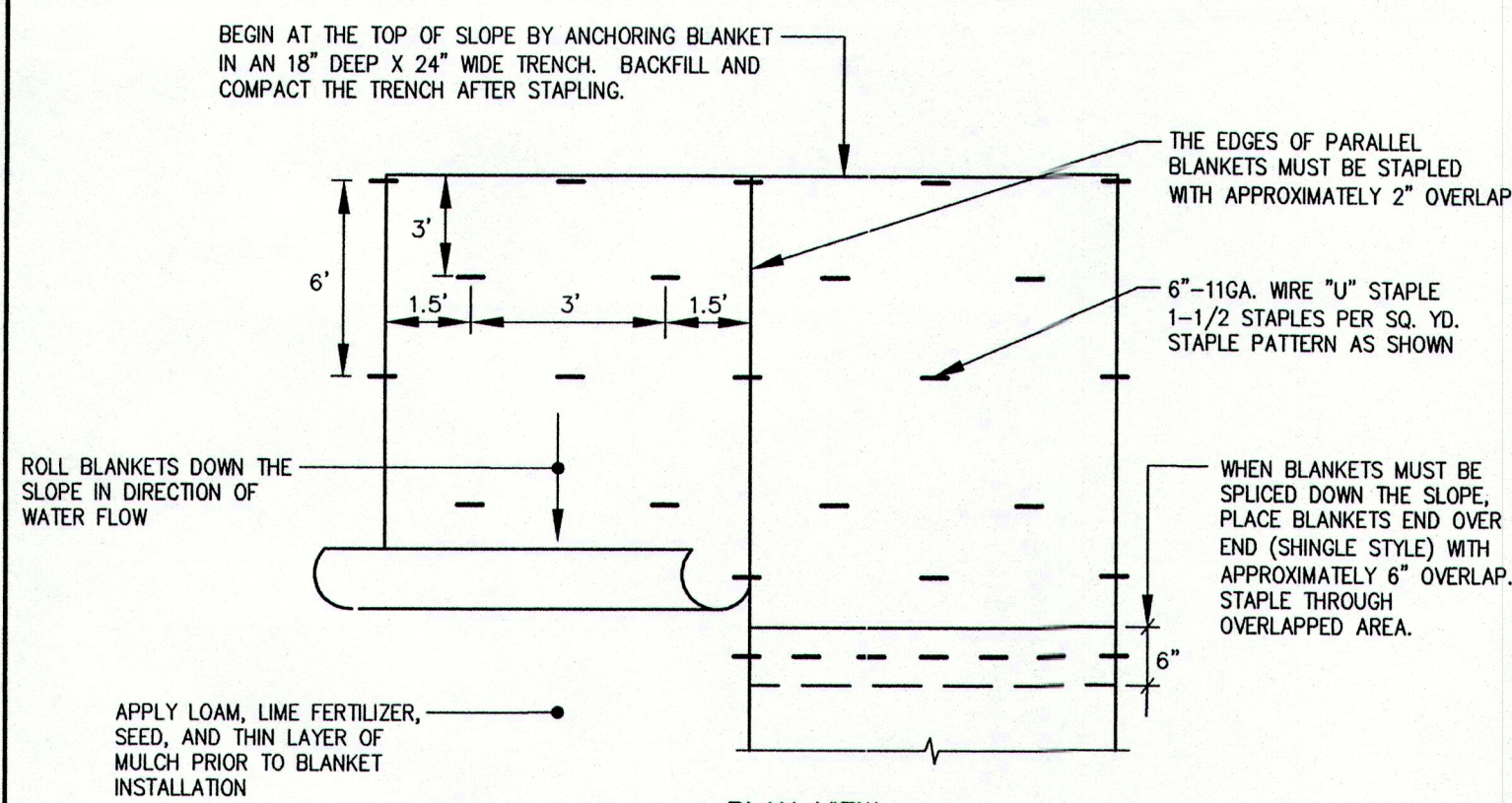


REV	DATE	DESCRIPTION
7	11.28.11	PHASE 1 CONSTRUCTION SET
6	09.13.11	RESUBMITTED TO TOWN
5	08.01.11	RESUBMITTED TO TOWN
4	07.22.11	REVISED PER TOWN COMMENTS AND RESUBMITTED
3	06.30.11	RESUBMITTED TO TOWN
2	06.21.11	REVISED PER INTERNAL REVIEW
1	05.31.11	SUBMITTED TO TOWN AND DEP
REV	DATE	DESCRIPTION



PROJECT	VILLAGE GREEN CUMBERLAND, MAINE
SHEET TITLE	EROSION & SEDIMENT CONTROL DETAILS (1 OF 2)
CLIENT	VILLAGE GREEN CUMBERLAND, LLC
DRAWN:	CDD
DESIGNED:	JAL
CHECKED:	JAL
FILE NAME:	2998-DET
SHEET	C-9.3

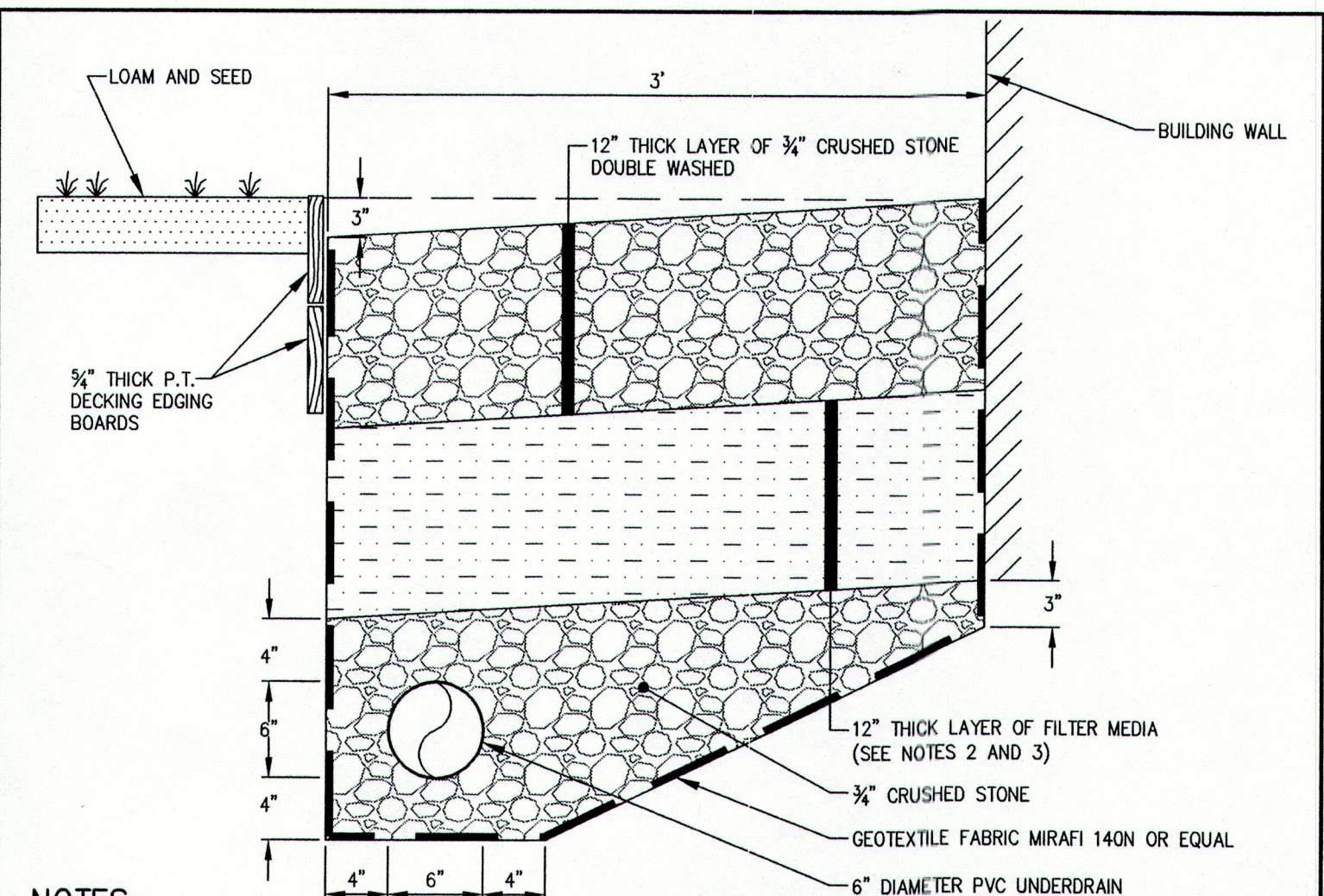
DeLUCA-HOFFMAN ASSOCIATES, INC. 778 MAIN STREET, SUITE 8 SOUTH PORTLAND, ME 04106 207.775.1121 WWW.DELUCAHOFFMAN.COM
--



- NOTES:
- IF GRASS CATCH IS NOT 75% BY SEPTEMBER 1, ADD #4 REBARS @ 3'-0" ROWS @ 3' CENTERS. REMOVE OR DRIVE REBARS 3" BELOW GRADE IN SPRING FOLLOWING TURF ESTABLISHMENT.
 - MULCH RATE TO BE 1/2 THE RATE OTHERWISE SPECIFIED.

A TURF REINFORCEMENT BLANKET DETAIL

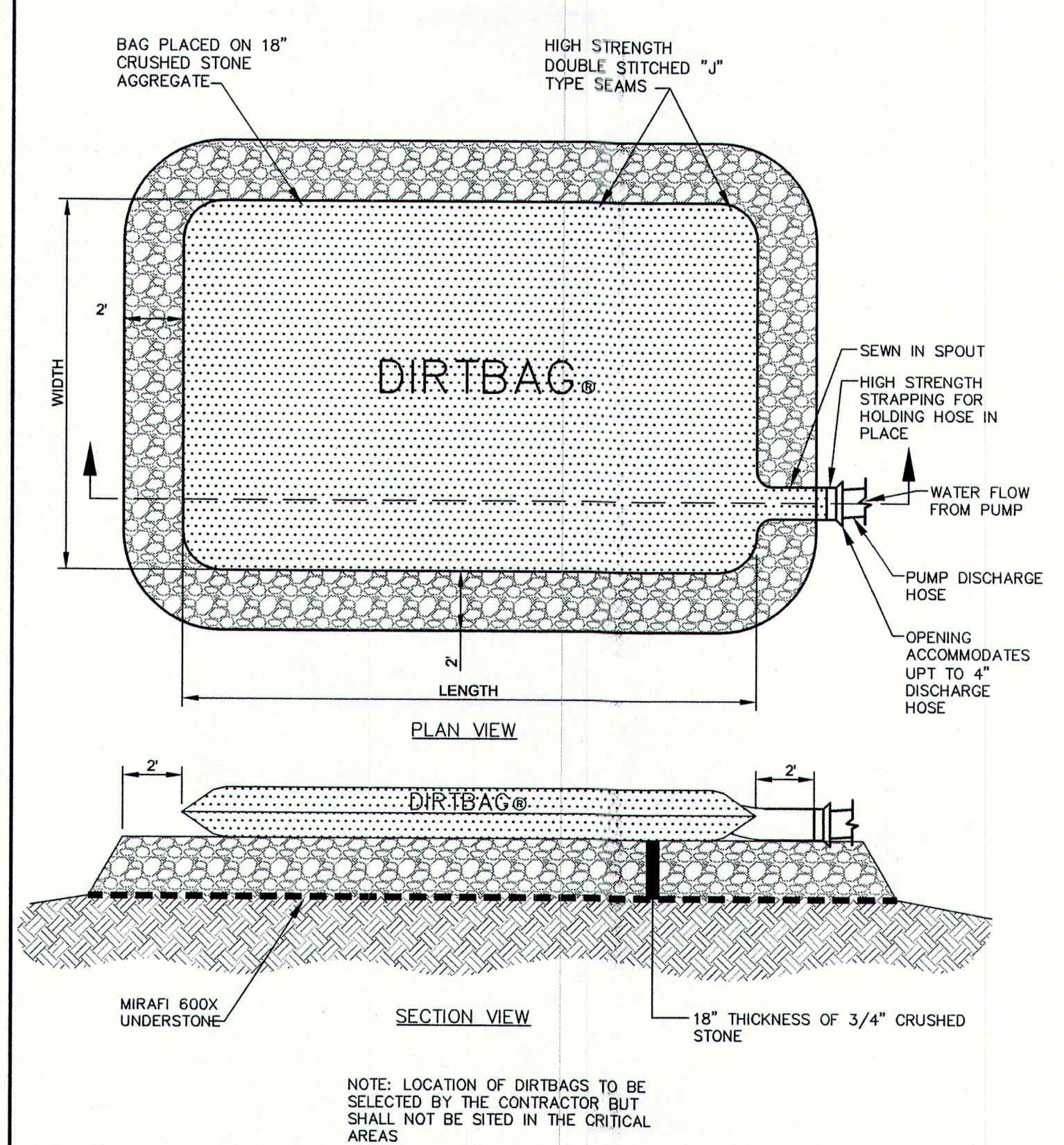
N.T.S.



- NOTES:
- ROOF DRIPLINE FILTERS SHALL BE INSTALLED ON ALL LOTS. THEY SHALL BE INSTALLED AROUND ALL HOUSE PERIMETERS IN LANDSCAPED AREAS WHERE ROOF RUNOFF WILL BE PRESENT. UNDERDRAINS SHALL DAYLIGHT AWAY FROM HOUSES OR CONNECT TO THE STORM DRAIN SYSTEM WHERE NECESSARY.
 - FILTER MEDIA - THE BACKFILL FOR THE FOUNDATION MAY BE USED AS FILTER MEDIA AS LONG AS THE MATERIAL IS A MINERAL SOIL WITH BETWEEN 4 AND 7% FINES (PASSING #200 SIEVE). THE CONTRACTOR SHALL EITHER HAVE THE EXISTING SOIL MATERIAL TESTED OR PROVIDE SAND BACKFILL MATERIAL MEETING THE FOLLOWING GRADATION:
- | SAND GRADATION FOR FILTER MEDIA (MDOT 703.01 MODIFIED) | |
|--|---------------------------|
| SIEVE SIZE | PERCENT PASSING BY WEIGHT |
| 3/8" | 100 |
| #4 | 95-100 |
| #8 | 80-100 |
| #16 | 50-85 |
| #30 | 25-60 |
| #60 | 10-30 |
| #100 | 4-10 |
| #200 | 4-7 |
- THE FILTER MEDIA SPECIFICATION IS BASED ON THE MAY 2007 ROOF DRIPLINE FILTRATION M&DEP BMP. THIS IS SUBJECT TO CHANGE BASED UPON OPERATING EXPERIENCE. GRADATION SPECIFICATIONS MAY BE CHANGED PERIODICALLY BY M&DEP. VERIFY THAT GRADATION IS CURRENT BEFORE INSTALLATION.

B ROOF DRIPLINE FILTER DETAIL

N.T.S.



- NOTES:
- LOCATION OF DIRTBAGS TO BE SELECTED BY THE CONTRACTOR BUT SHALL NOT BE SITED IN THE CRITICAL AREAS

OVERVIEW:

THE PROJECT WILL REQUIRE THE DISCHARGE OF CONSTRUCTION DEWATERING AND TURBID LADEN RUNOFF FROM THE SITE TO BE DIRECTED AND DISCHARGED THROUGH A DIRTBAG. THIS DESCRIPTION ALSO CONTAINS APPENDED MATERIALS DESCRIBING THE DIRTBAGS REFERRED TO IN THIS NARRATIVE.

THE PROJECT WILL BENEFIT FROM A POND DESIGNED NOT ONLY FOR DETENTION BUT ALSO FOR USE AS SEDIMENTATION BASINS DURING CONSTRUCTION.

HOWEVER, IT IS RECOGNIZED THAT WEATHER CONDITIONS ARE NOT ALWAYS PREDICTABLE. THERE MAY BE EXCEPTIONAL PERIODS WHEN CONSTRUCTION ACTIVITY RESULTS IN HIGHLY TURBID WATER WHICH IS NOT CONSIDERED DESIRABLE TO DISCHARGE TO THE PONDS, OR LIMITED ACTIVITY IS REQUIRED THAT MAY NOT BE EASILY ACCOMMODATED BY THE PONDS. TRADITIONALLY, MEDEP PERMITS HAVE HAD A STANDARD CONDITION WHICH STATES:

"THE APPLICANT SHALL TAKE ALL NECESSARY ACTIONS TO ENSURE THAT ITS ACTIVITIES OR THOSE OF ITS AGENTS DO NOT RESULT IN NOTICEABLE EROSION OF SOILS OR FUGITIVE DUST EMISSIONS ON THE SITE DURING THE CONSTRUCTION AND OPERATION OF THE PROJECT COVERED BY THIS APPROVAL."

THESE SPECIFICATIONS HAVE BEEN DEVELOPED FOR THE PURPOSE OF ADDRESSING CONSTRUCTION DEWATERING ACTIVITIES WITH THE CONTINGENCY THAT UNPREDICTABLE WEATHER CAN CREATE. THE SPECIFICATION IS INTENDED TO "SHARE THE RISK" BETWEEN THE CONTRACTOR AND OWNER. IT IS ANTICIPATED THAT THIS METHOD WILL ALLOW THE BASE BID FOR THE PROJECT TO HAVE A REDUCED BUILT-IN CONTINGENCY COST FOR CERTAIN WEATHER-RELATED FACTORS.

THIS SPECIFICATION IS NOT INTENDED TO DIMINISH THE RECOGNIZED AND POTENTIAL AID OF THE PROPOSED SEDIMENT PONDS TO ACT AS THE PRIMARY DEVICE TO CAPTURE AND RETAIN SUSPENDED SEDIMENT. THIS BENEFIT IS A PRINCIPAL REASON WHY THE CONSTRUCTION OF THE PONDS EARLY IN THE PROJECT IS SO IMPORTANT.

ACCEPTABLE METHODS OF DISCHARGING CONSTRUCTION SITE RUNOFF:

DEWATERING OF THE CONSTRUCTION SITE SHALL BE ACCOMPLISHED USING ONE OF THE FOLLOWING MEASURES:

THE DIRECTION OF THE RUNOFF TO THE SEDIMENTATION BASIN BY GRAVITY FLOW.

THE PUMPING OF DIRTBAGS WITH A DISCHARGE TO THE POND.

THE PUMPING OF CONSTRUCTION SITE WATER AND COLLECTED RUNOFF TO A DIRTBAG (PATENTED PRODUCT BY AGC ENVIRONMENTAL PRODUCTS) WITH RELEASE THROUGH A VEGETATED BUFFER AT LEAST 50 FEET UPGRADIENT OF A WETLAND.

C DIRTBAG AND SPECIFICATIONS FOR DEWATERING DETAIL

N.T.S.

REQUIREMENTS FOR DIRTBAGS:

THE SITE CONTRACTOR SHALL INCLUDE THE PRICE OF INSTALLING, OPERATING, AND REMOVAL AND DISPOSAL OF FOUR DIRTBAG 55'S AS PART OF THE BASE BID. A UNIT PRICE SHALL BE PROVIDED FOR ADDITIONAL DIRTBAGS.

AT ALL TIMES THERE MUST BE AN UNUSED DIRTBAG AVAILABLE FOR EMERGENCY USE.

AT ALL TIMES (AFTER INITIAL SITE PREPARATION), THE CONTRACTOR SHALL HAVE ONE DIRTBAG ACTIVE OR READY FOR USE. THE DIRTBAGS SHALL BE FIELD LOCATED BY THE CONTRACTOR BUT ARE NOT TO BE INSTALLED IN ANY "CRITICAL" AREA. (THE SITE CRITICAL AREAS ARE SHOWN ON THE EROSION-SEDIMENT CONTROL PLAN). THE DIRTBAG SHALL BE INSTALLED ON A PREPARED SUBGRADE. THIS SUBGRADE SHALL CONSIST OF THE INSTALLATION OF A LAYER OF MIRAFI 600X, AND 18 INCHES OF 3/4" CRUSHED STONE. THE PLAN DIMENSION OF THE CRUSHED STONE PAD SHALL EXCEED THE PLAN AREA OF THE DIRTBAG BY AT LEAST TWO FEET IN ALL DIRECTIONS. THE DIRTBAG SHALL NOT BE INSTALLED ON AN UNDERLYING SLOPE OF GREATER THAN 15 PERCENT.

CONSTRUCTION DEWATERING OPERATIONS:

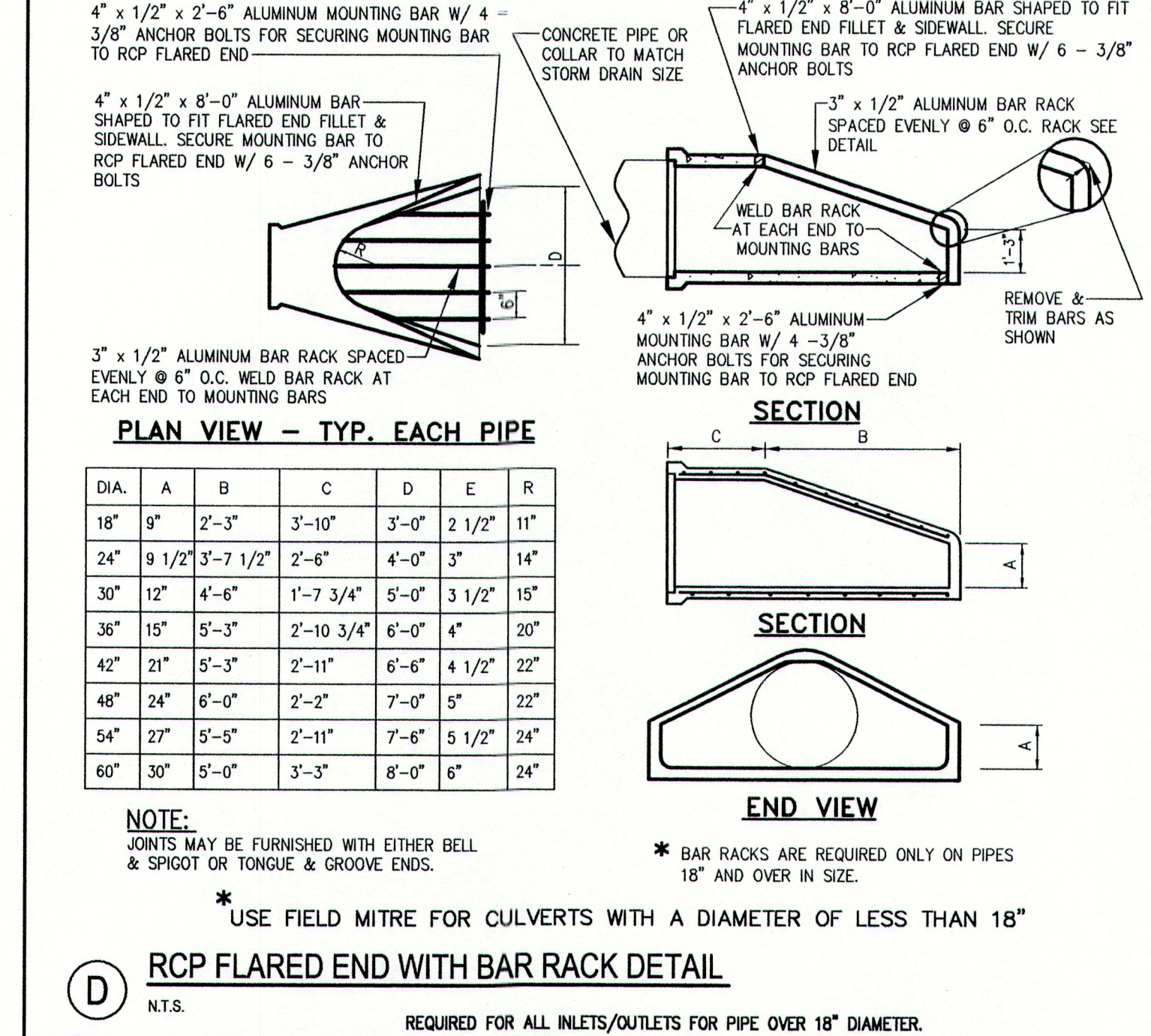
ALL CONSTRUCTION DEWATERING OPERATIONS ARE THE RESPONSIBILITY OF THE SITE CONTRACTOR. IT SHALL BE THE SITE CONTRACTOR WHO IS RESPONSIBLE FOR SELECTING THE SITE FOR THE DIRTBAG, THE SELECTION OF THE USE OF THE DIRTBAG OR THE SEDIMENTATION BASIN FOR DIRECTING DEWATERING, EXCEPT THAT THE OWNER MAY DIRECT THE SITE CONTRACTOR TO ALTER THE SELECTED OPERATION IF TURBID DISCHARGE TO A WETLAND OR WATERCOURSE, OR DRAINAGE SYSTEM LEAVING THE SITE IS OBSERVED.

WINTER OPERATIONS:

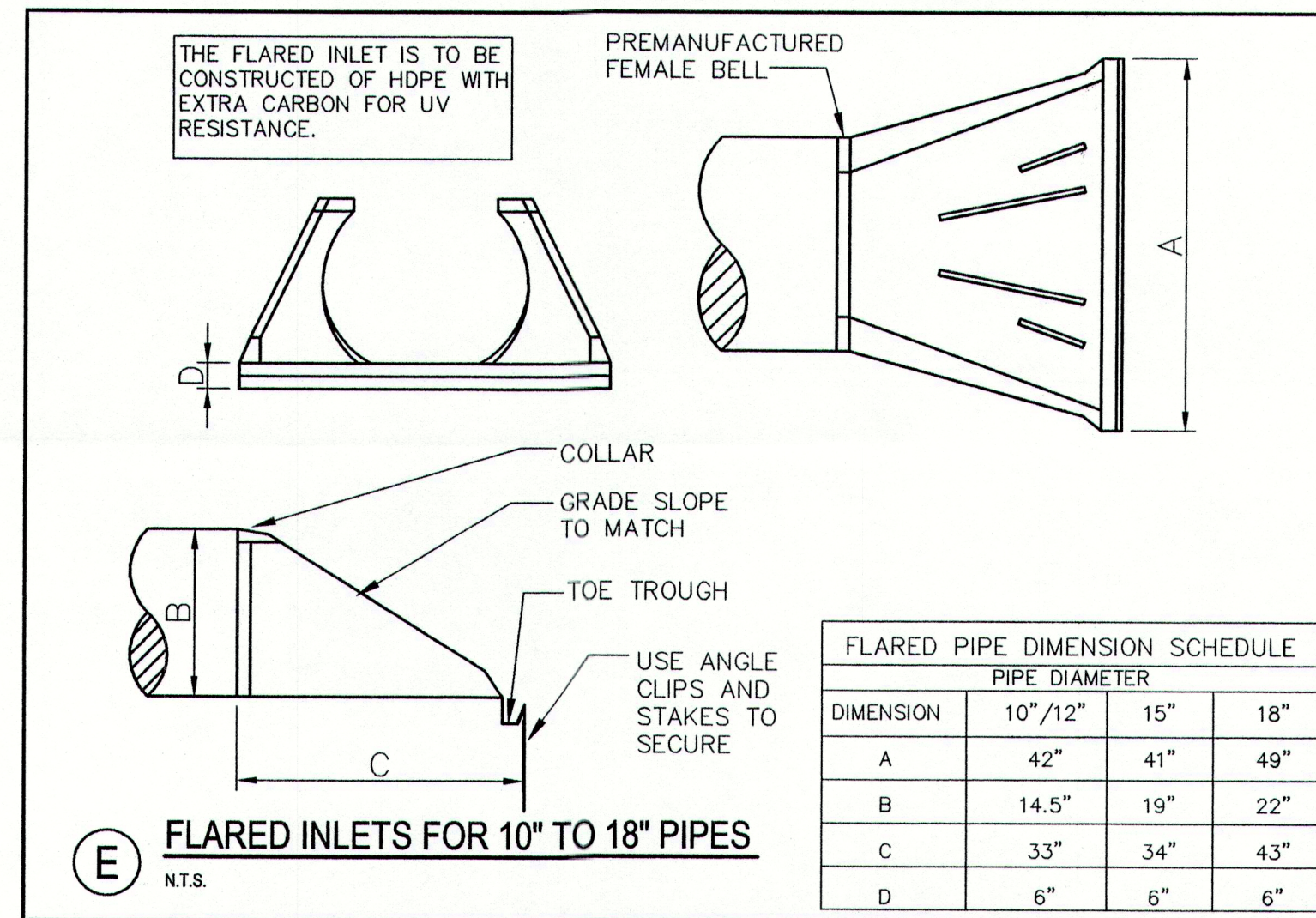
IN THE EVENT THAT WINTER OPERATIONS ARE REQUIRED, THE CONTRACTOR SHALL POLY-ENCLOSE, AND PROVIDE TEMPORARY HEAT TO PREVENT THE DIRTBAG FROM SUBSTANTIAL FREEZING.

RECORD KEEPING:

THE WEEKLY EROSION-SEDIMENT CONTROL REPORTS PREPARED IN ACCORDANCE WITH THE NPDES PERMIT SHALL MAINTAIN A LOG OF THE LOCATION, USE, AND REMOVAL OF DIRTBAGS. IN THE EVENT THAT THE STONE UNDER THE DIRTBAG BECOMES HIGHLY CONTAMINATED WITH FINES, THE NEXT DIRTBAG SHALL BE INSTALLED IN A DIFFERENT LOCATION.

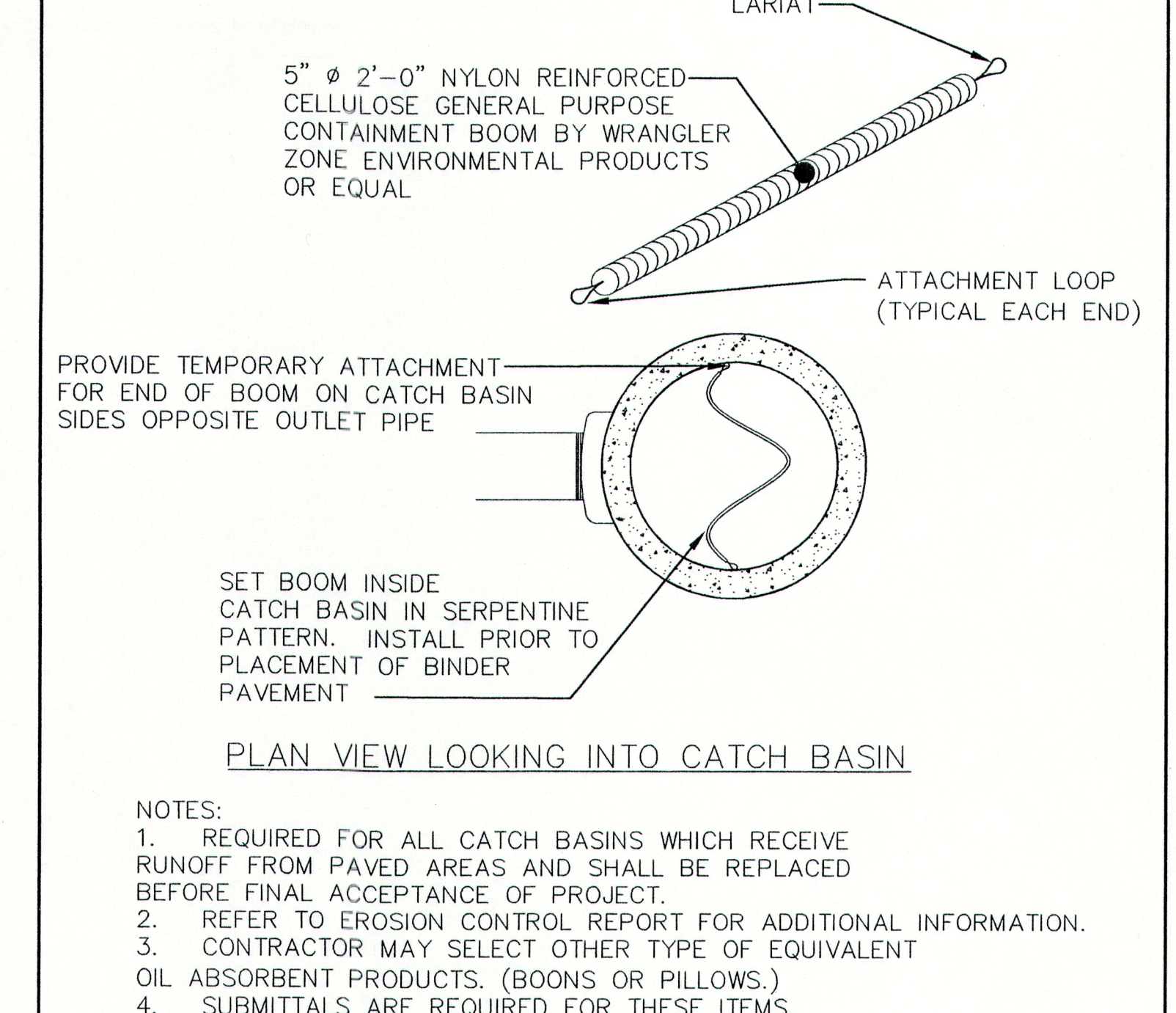
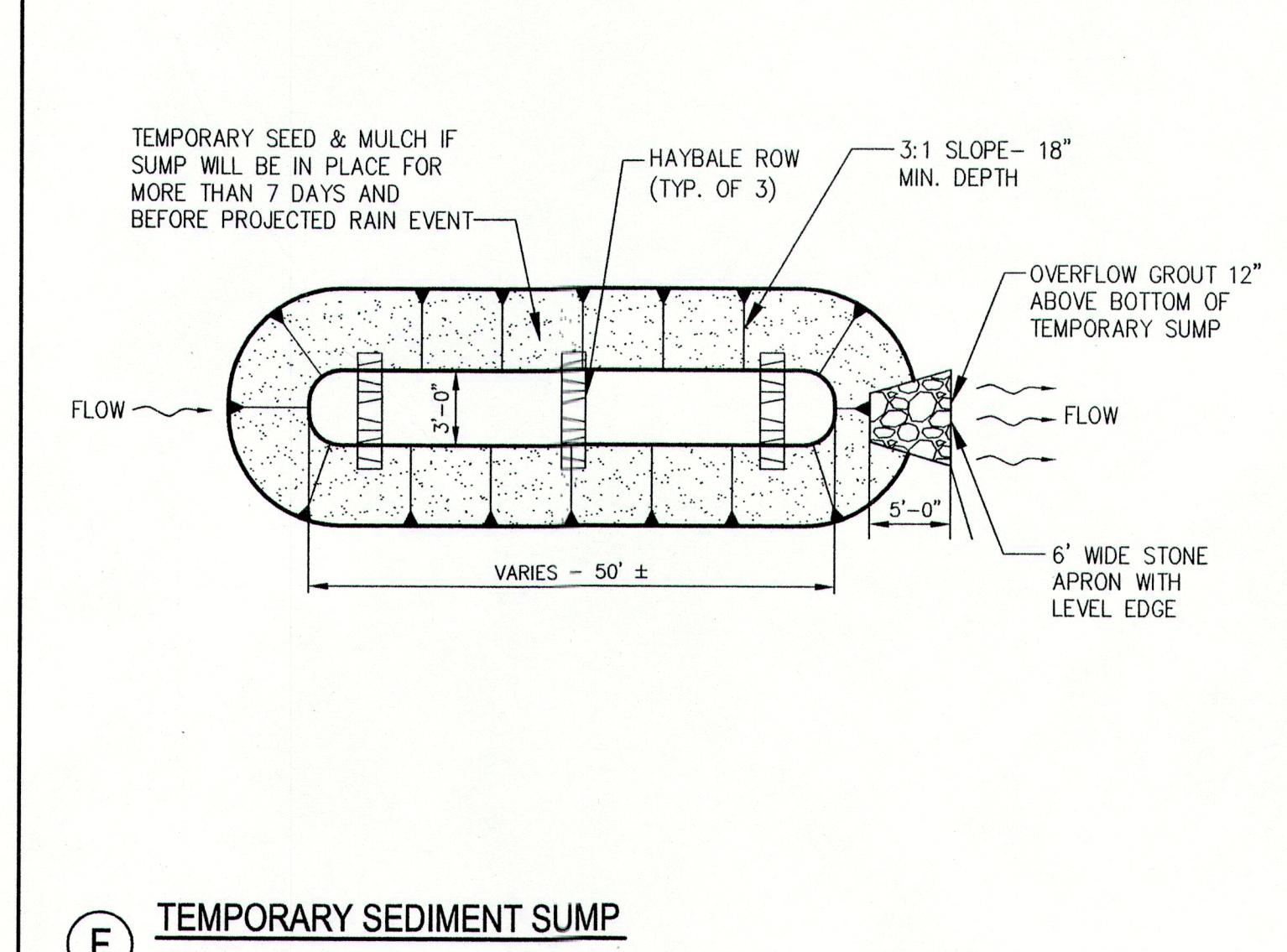


REQUIRED FOR ALL INLETS/OUTLETS FOR PIPE OVER 18" DIAMETER.



F TEMPORARY SEDIMENT SUMP

N.T.S.

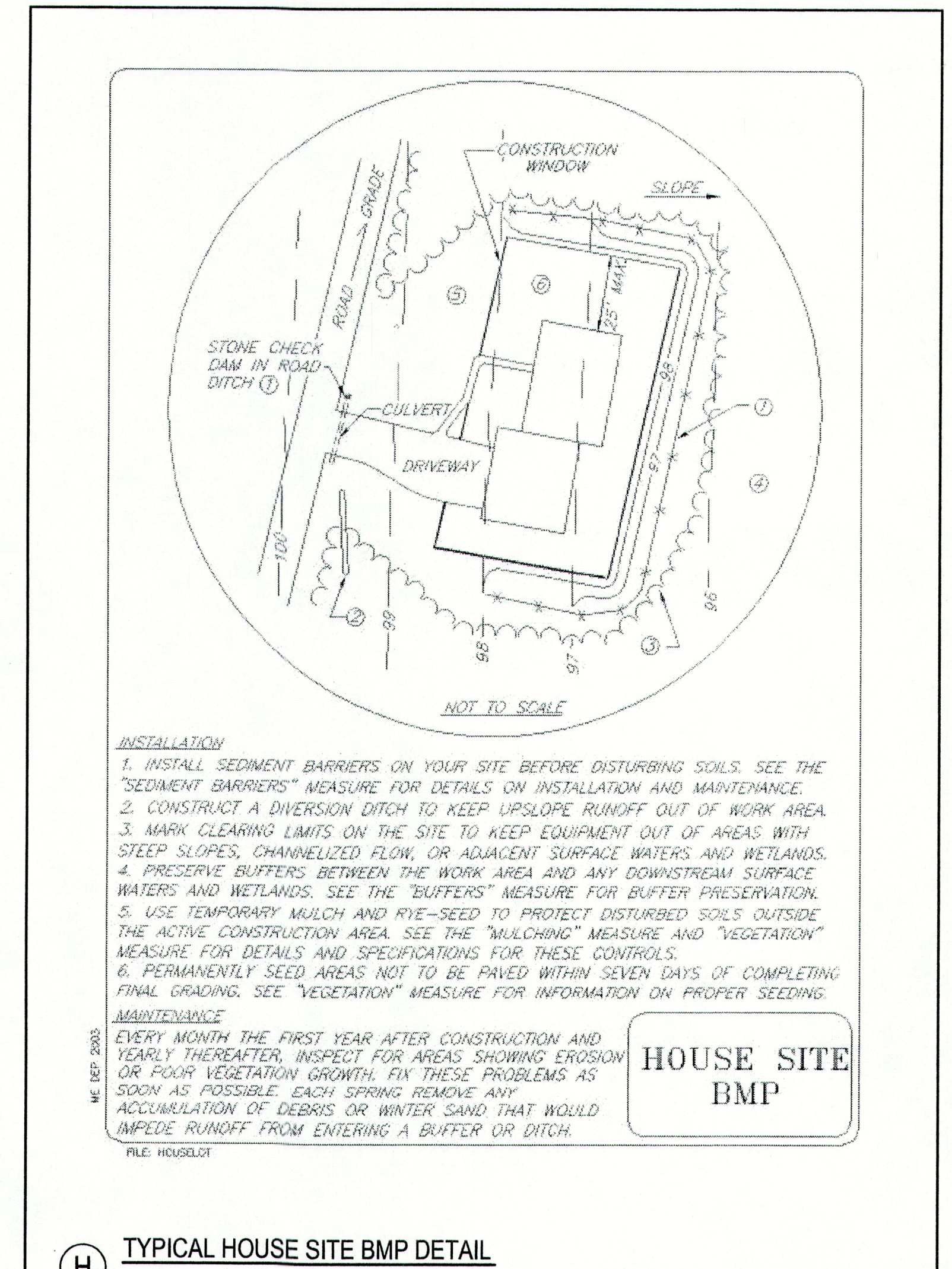


NOTES:

- REQUIRED FOR ALL CATCH BASINS WHICH RECEIVE RUNOFF FROM PAVED AREAS AND SHALL BE REPLACED BEFORE FINAL ACCEPTANCE OF PROJECT.
- REFER TO EROSION CONTROL REPORT FOR ADDITIONAL INFORMATION.
- CONTRACTOR MAY SELECT OTHER TYPE OF EQUIVALENT OIL ABSORBENT PRODUCTS. (BOONS OR PILLOWS.)
- SUBMITTALS ARE REQUIRED FOR THESE ITEMS.

G TEMPORARY WATER QUALITY MEASURE INSIDE OF CATCH BASINS

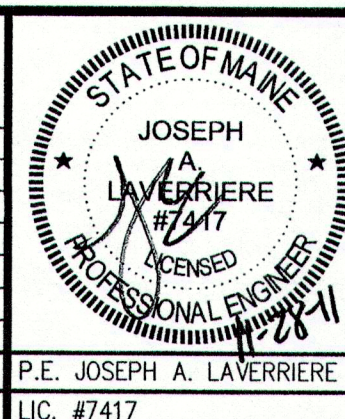
N.T.S.



H TYPICAL HOUSE SITE BMP DETAIL

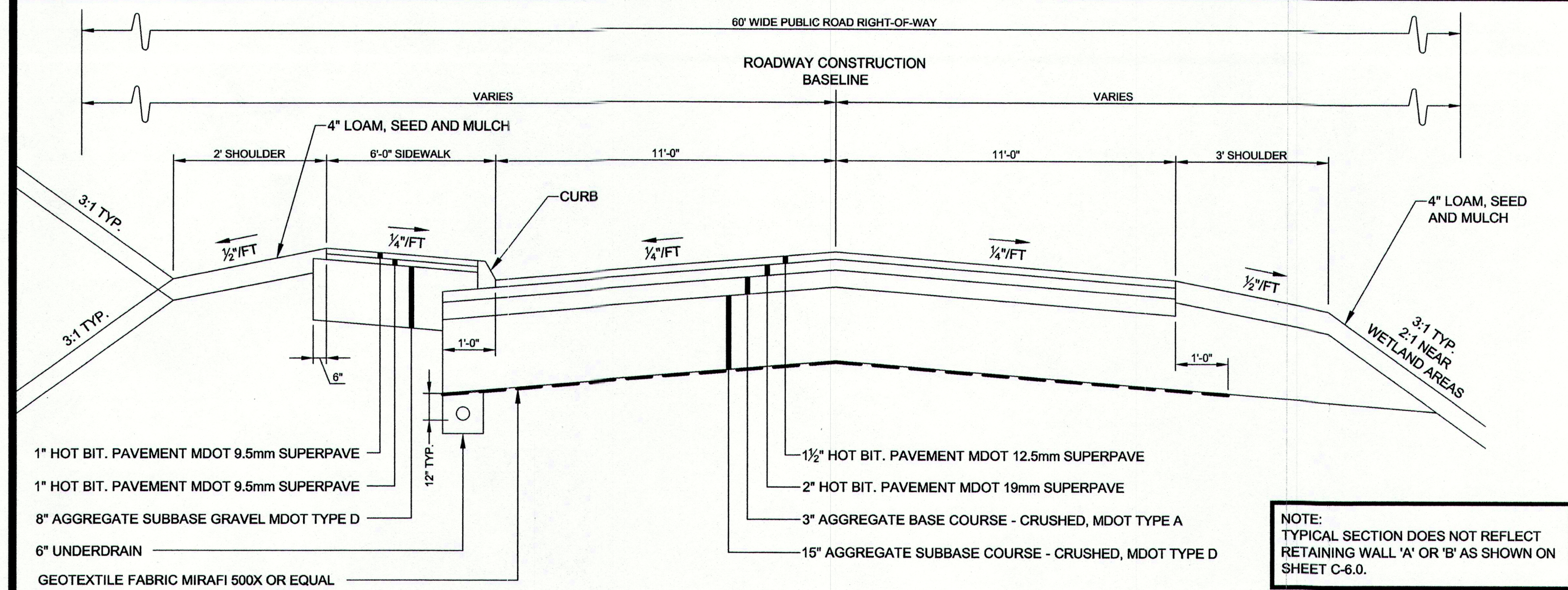
N.T.S.

REV	DATE	DESCRIPTION	REVISIONS
7	11.28.11	PHASE 1 CONSTRUCTION SET	
6	09.13.11	RESUBMITTED TO TOWN	
5	07.29.11	REVISED PER COMMENTS OF BEN VOLA & RESUBMITTED TO DEP	
4	07.22.11	REVISED PER TOWN COMMENTS AND RESUBMITTED	
3	06.30.11	RESUBMITTED TO TOWN	
2	06.21.11	REVISED PER INTERNAL REVIEW	
1	05.31.11	SUBMITTED TO TOWN AND DEP	

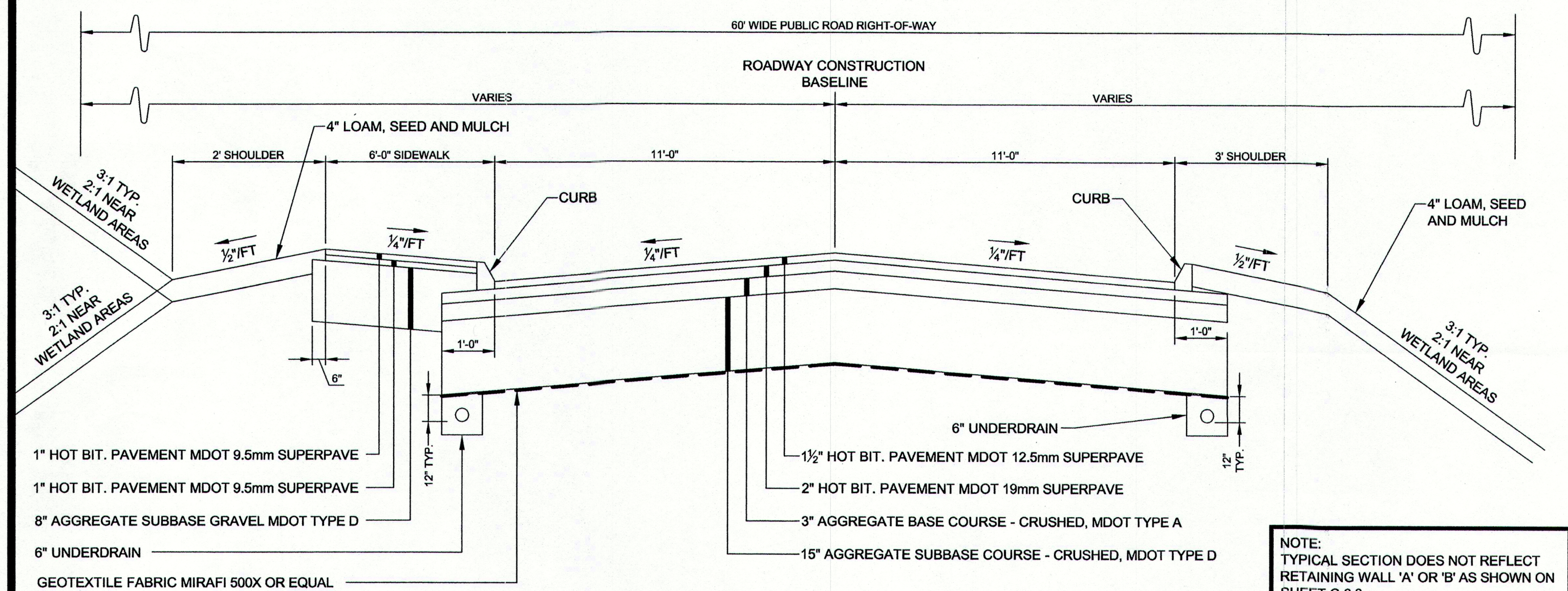


PROJECT	VILLAGE GREEN CUMBERLAND, MAINE
SHEET TITLE	EROSION & SEDIMENT CONTROL DETAILS (2 OF 2)
CLIENT	VILLAGE GREEN CUMBERLAND, LLC

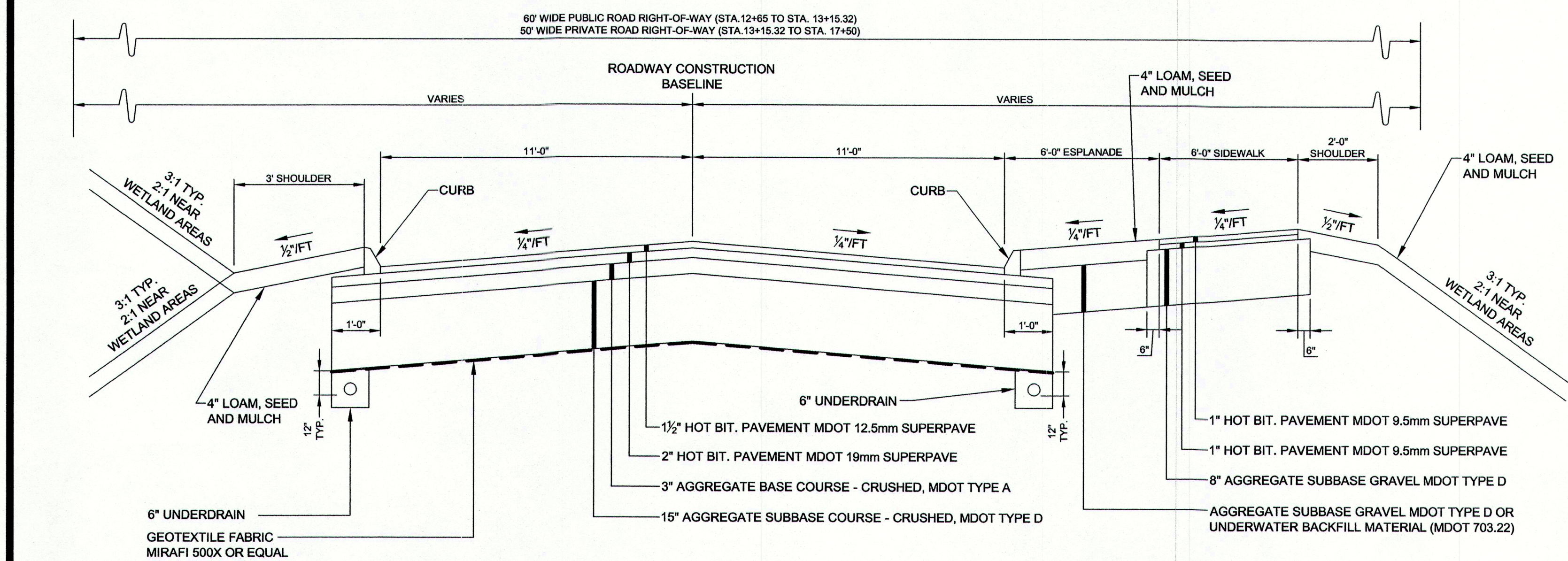
DeLUCA-HOFFMAN ASSOCIATES, INC. 778 MAIN STREET, SUITE 8 SOUTH PORTLAND, ME 04106 207.775.1121 WWW.DELUCAHOFFMAN.COM
DRAWN: CDD DATE: MAY 2011
DESIGNED: JAL SCALE: N.T.S.
CHECKED: JAL JOB NO. 2998
FILE NAME: 2998-DET
SHEET C-9.4



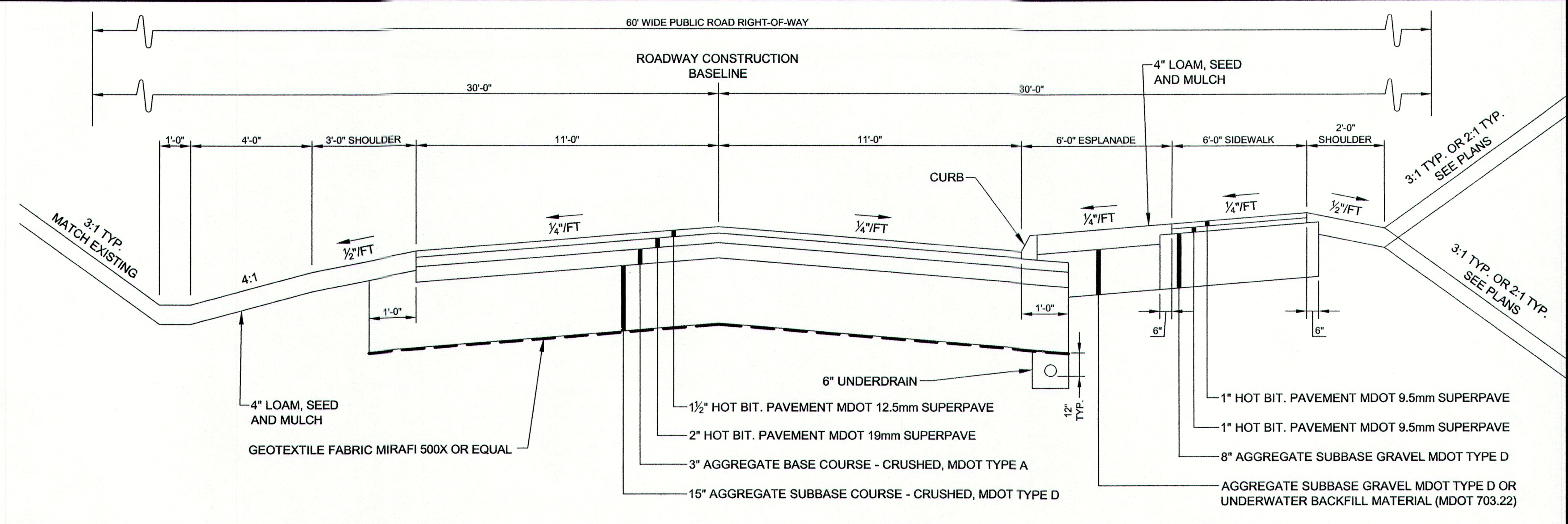
TYPICAL ROADWAY SECTION
WYMAN WAY (STA. 0+00 TO STA. 7+50)



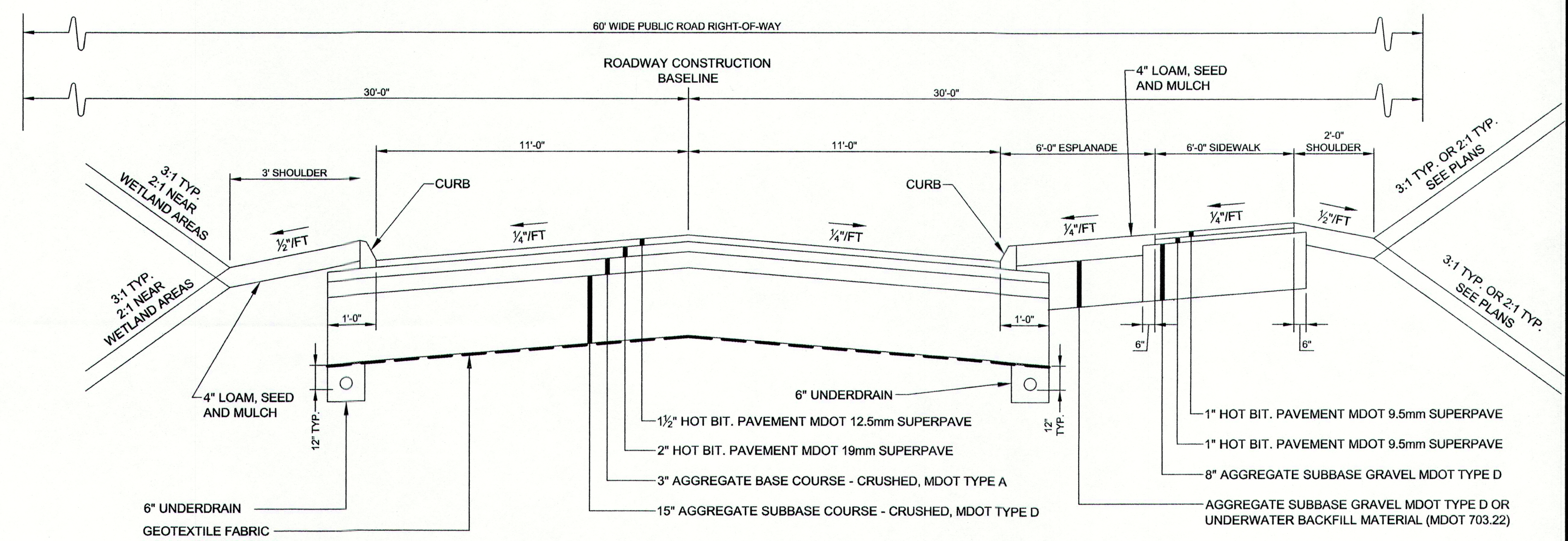
TYPICAL ROADWAY SECTION
WYMAN WAY (STA. 7+50 TO STA. 12+65)



TYPICAL ROADWAY SECTION
WYMAN WAY (STA. 12+65 TO STA. 17+50)

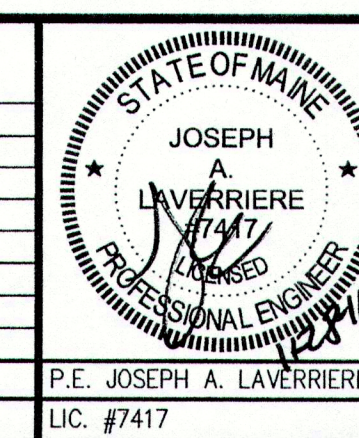


TYPICAL ROADWAY SECTION
DROWNE ROAD (STA. 30+00 TO STA. 40+05)



TYPICAL ROADWAY SECTION
DROWNE ROAD (STA. 40+05 TO STA. 45+00)

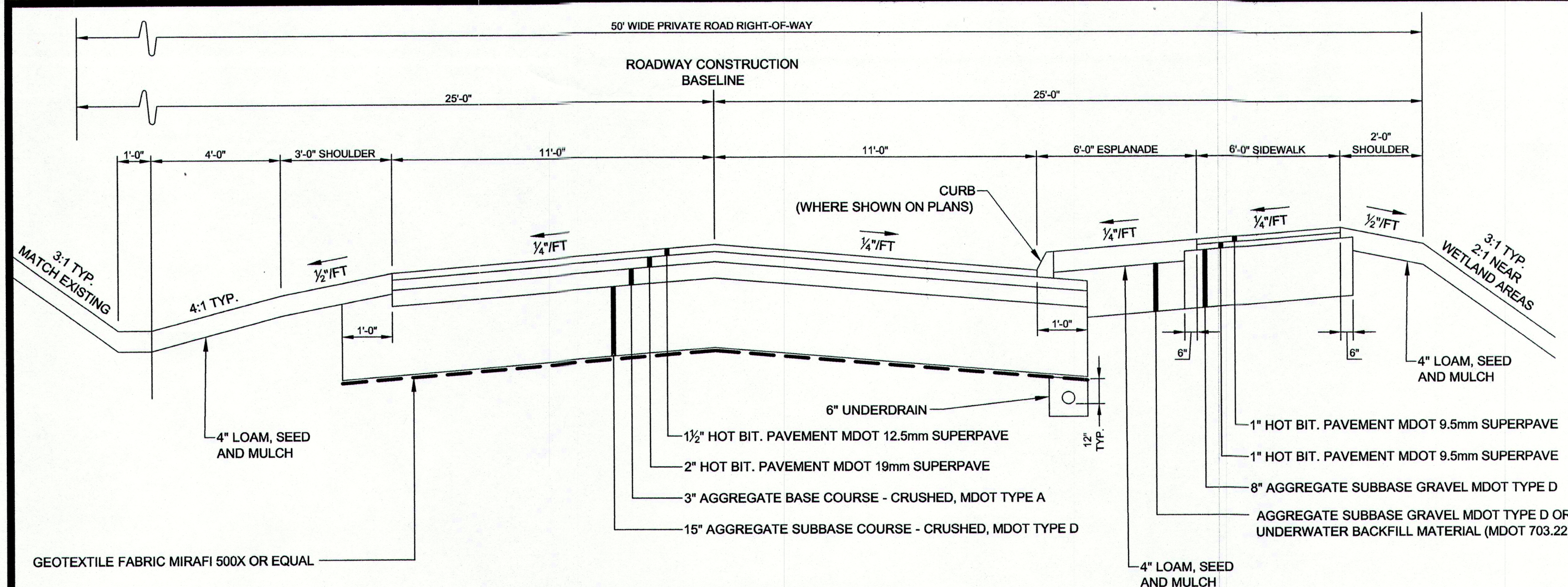
REV	DATE	DESCRIPTION
8	11.28.11	PHASE 1 CONSTRUCTION SET
7	09.13.11	RESUBMITTED TO TOWN
6	08.22.11	MODIFIED GRAVEL WIDTH BEHIND CURB FROM 2' TO 1'
5	08.01.11	RESUBMITTED TO TOWN
4	07.22.11	REVISED PER TOWN COMMENTS AND RESUBMITTED
3	06.30.11	RESUBMITTED TO TOWN
2	06.21.11	REVISED PER INTERNAL REVIEW
1	05.31.11	SUBMITTED TO TOWN AND DEP
REV	DATE	DESCRIPTION



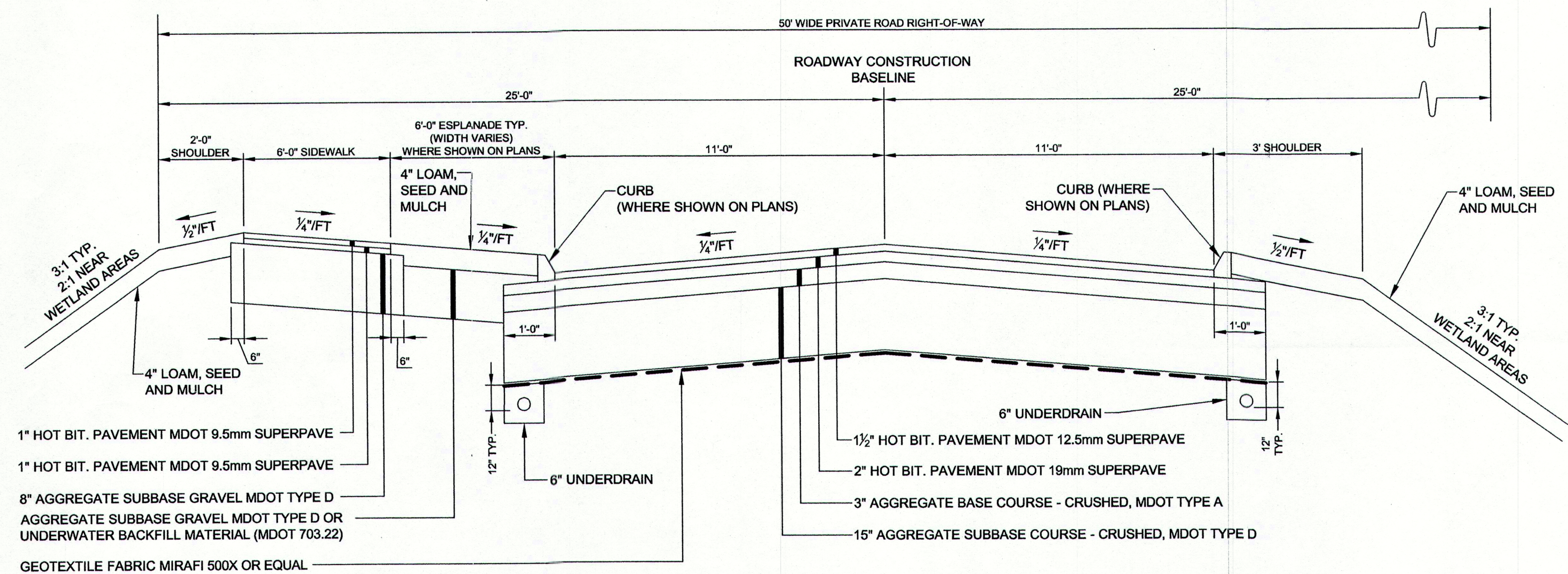
PROJECT	VILLAGE GREEN CUMBERLAND, MAINE
SHEET TITLE	PAVEMENT, CURB & SIDEWALK DETAILS
CLIENT	VILLAGE GREEN CUMBERLAND, LLC

DRAWN:	CDD	DATE:	MAY 2011
DESIGNED:	JAL	SCALE:	N.T.S.
CHECKED:	JAL	JOB NO.	2998
FILE NAME:	2998-DET		
SHEET	C-10.0		

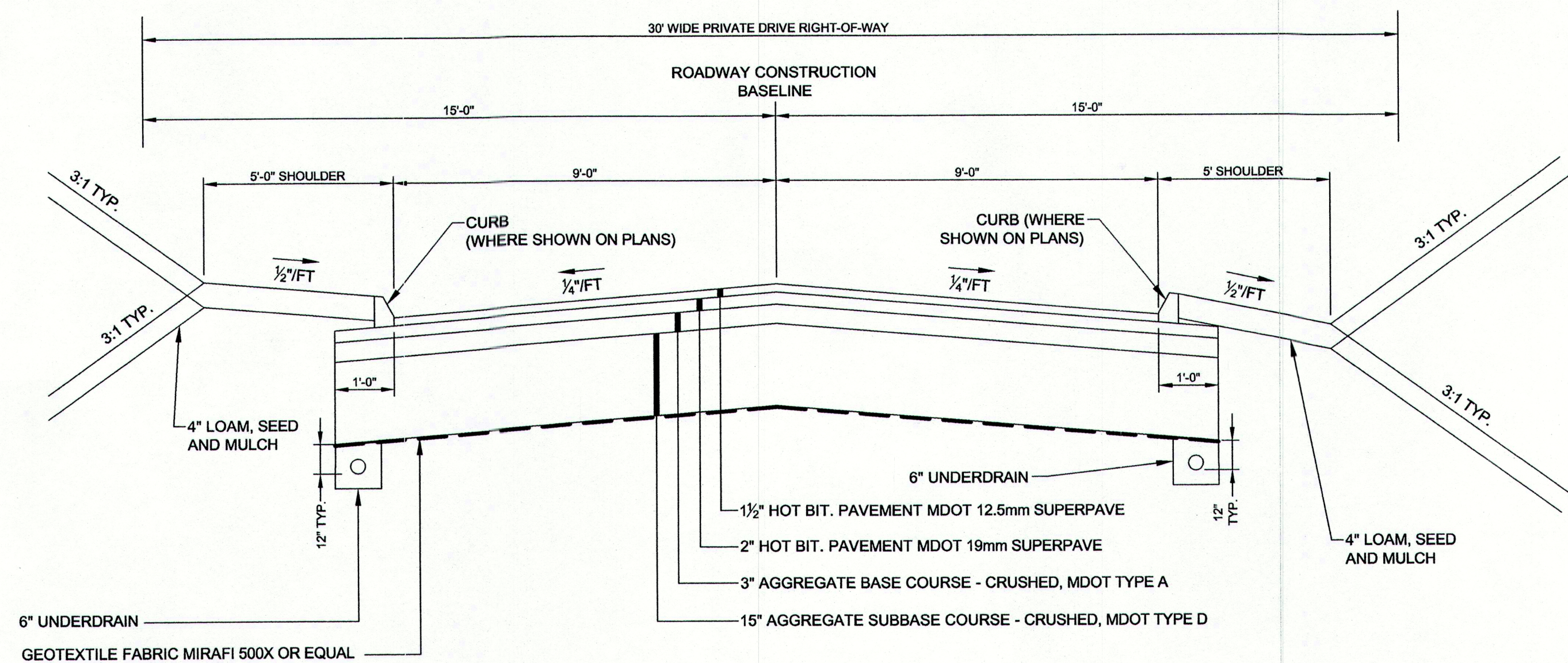
DeLUCA-HOFFMAN
ASSOCIATES, INC.
778 MAIN STREET, SUITE 8
SOUTH PORTLAND, ME 04106
207.775.1121
WWW.DELUCAHOFFMAN.COM



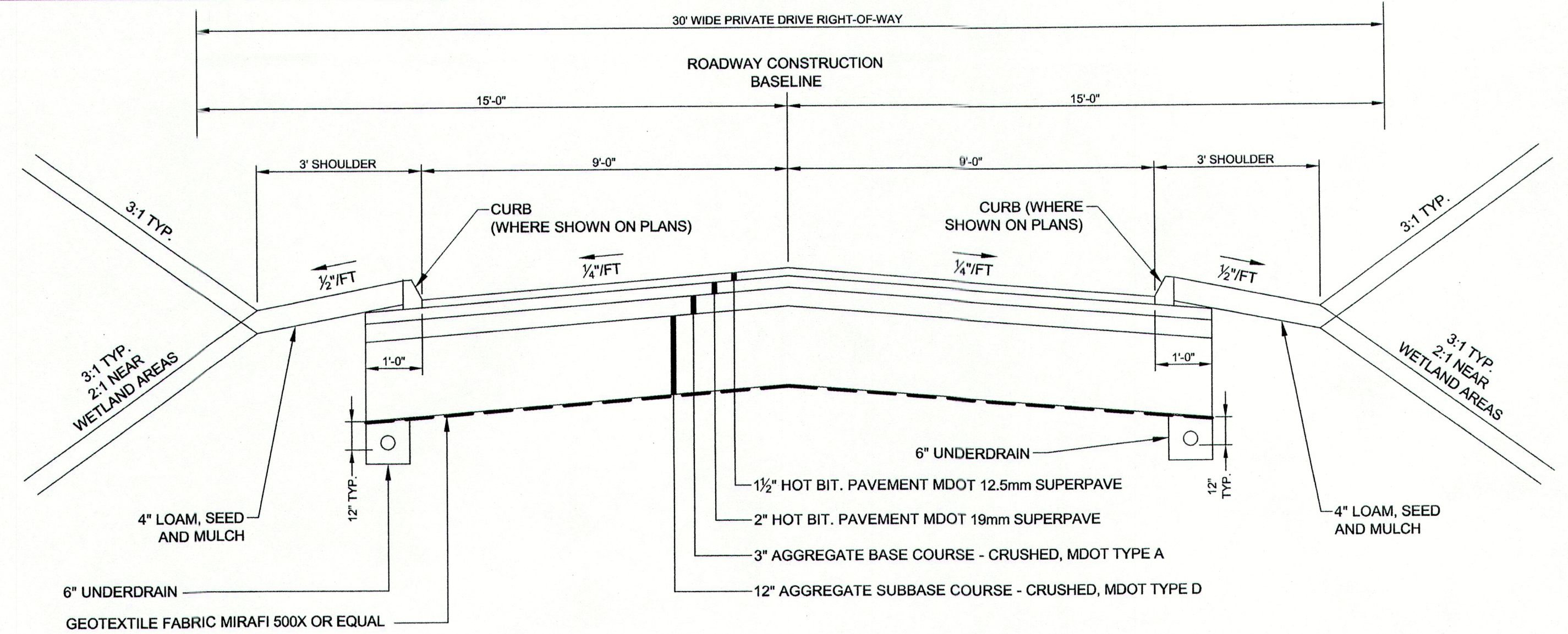
TYPICAL ROADWAY SECTION
WYMAN WAY (STA. 17+50 TO STA. 27+48.99)



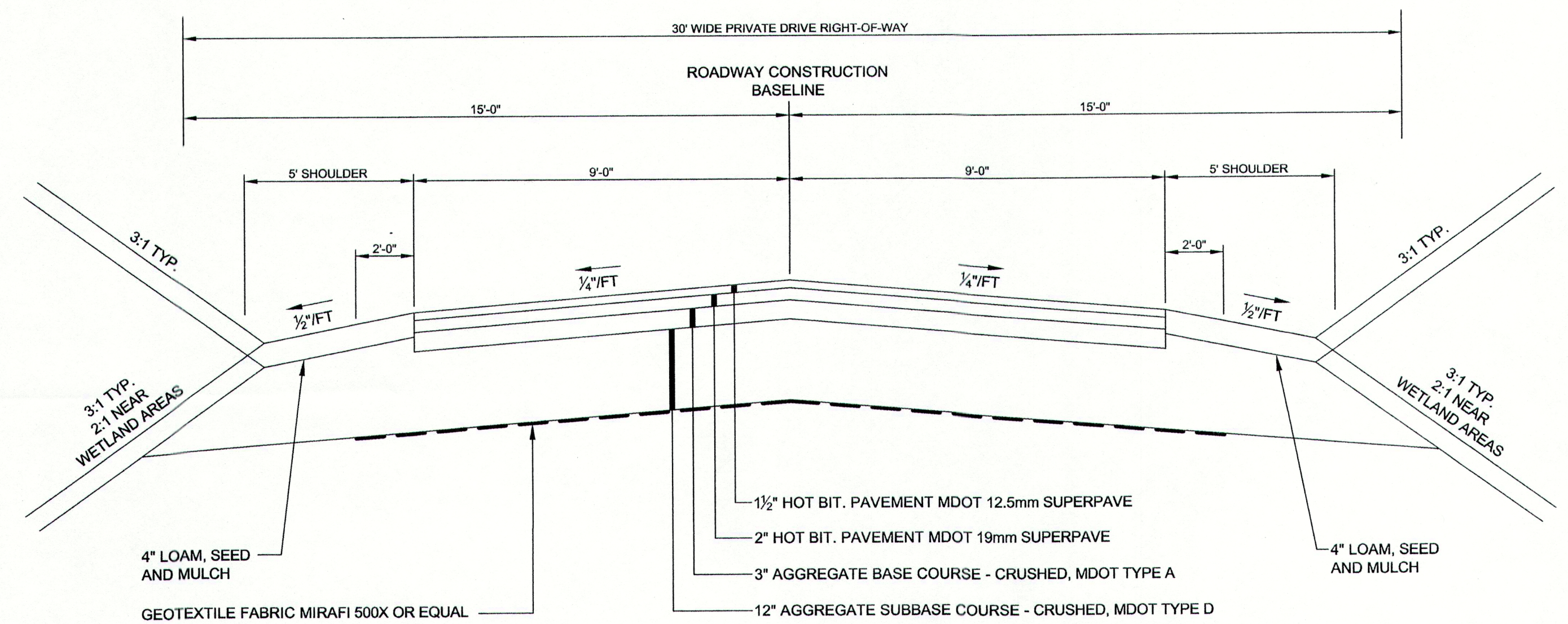
TYPICAL ROADWAY SECTION
PRIVATE ROAD (STA. 50+00 TO STA. 57+69.50)



TYPICAL ROADWAY SECTION
PRIVATE DRIVE (STA. 57+69.50 TO STA. 60+00)

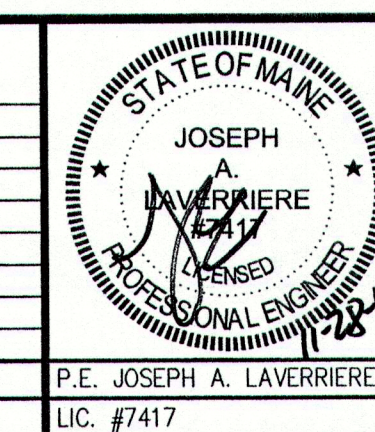


TYPICAL ROADWAY SECTION
PRIVATE DRIVE - WITH CURB



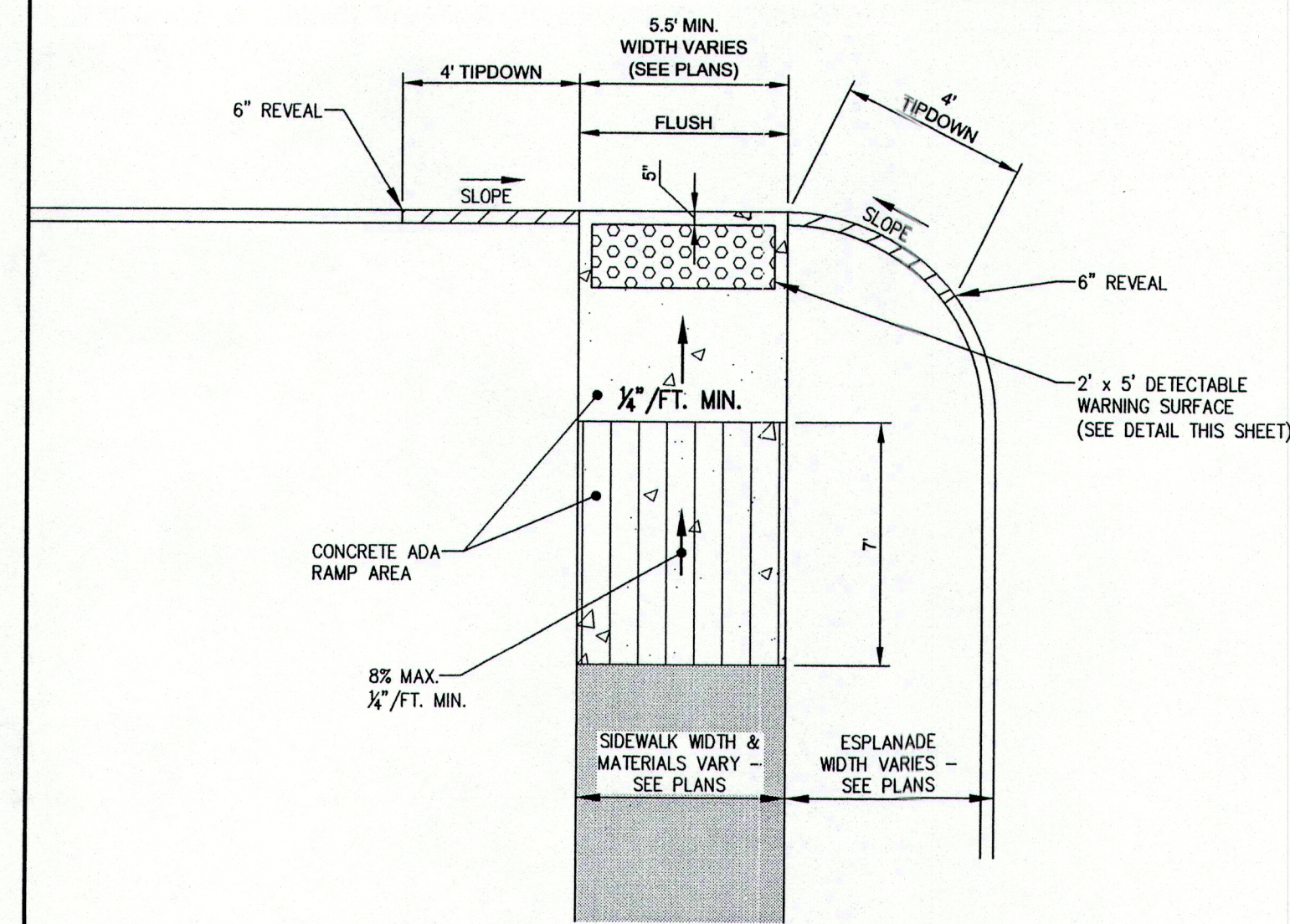
TYPICAL ROADWAY SECTION
PRIVATE DRIVE - WITHOUT CURB

REV	DATE	DESCRIPTION
8	11.28.11	PHASE 1 CONSTRUCTION SET
7	09.13.11	RESUBMITTED TO TOWN
6	08.22.11	MODIFIED GRAVEL WIDTH BEHIND CURB FROM 2' TO 1'
5	08.01.11	RESUBMITTED TO TOWN
4	07.22.11	REVISED PER TOWN COMMENTS AND RESUBMITTED
3	06.30.11	RESUBMITTED TO TOWN
2	06.21.11	REVISED PER INTERNAL REVIEW
1	05.31.11	SUBMITTED TO TOWN AND DEP
REV	DATE	DESCRIPTION

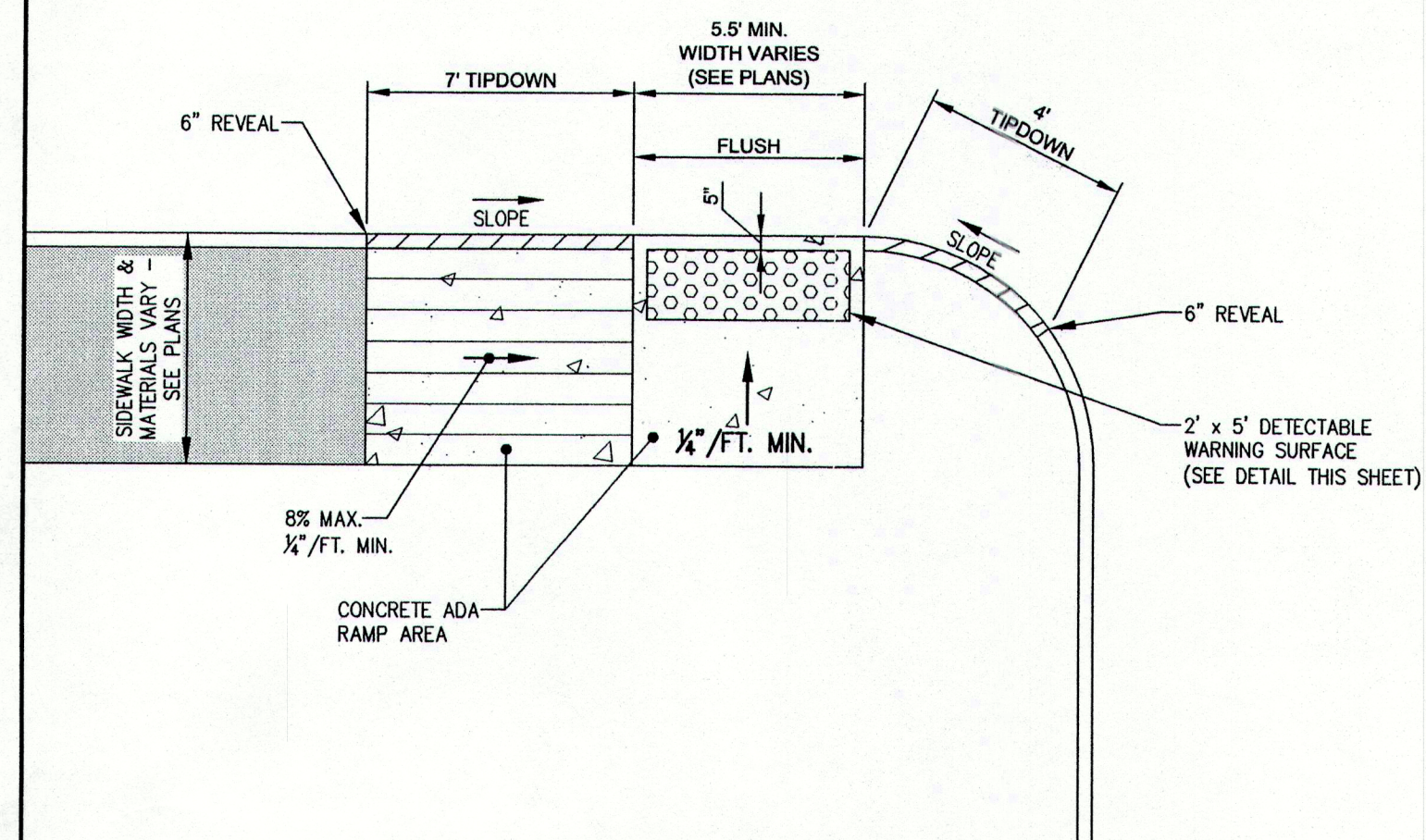


PROJECT	VILLAGE GREEN CUMBERLAND, MAINE
SHEET TITLE	PAVEMENT, CURB & SIDEWALK DETAILS
CLIENT	VILLAGE GREEN CUMBERLAND, LLC

DESIGNED:	JAL	DATE:	MAY 2011
CHECKED:	JAL	SCALE:	N.T.S.
FILE NAME:	2998-DET	JOB NO.	2998
SHEET	C-10.1		



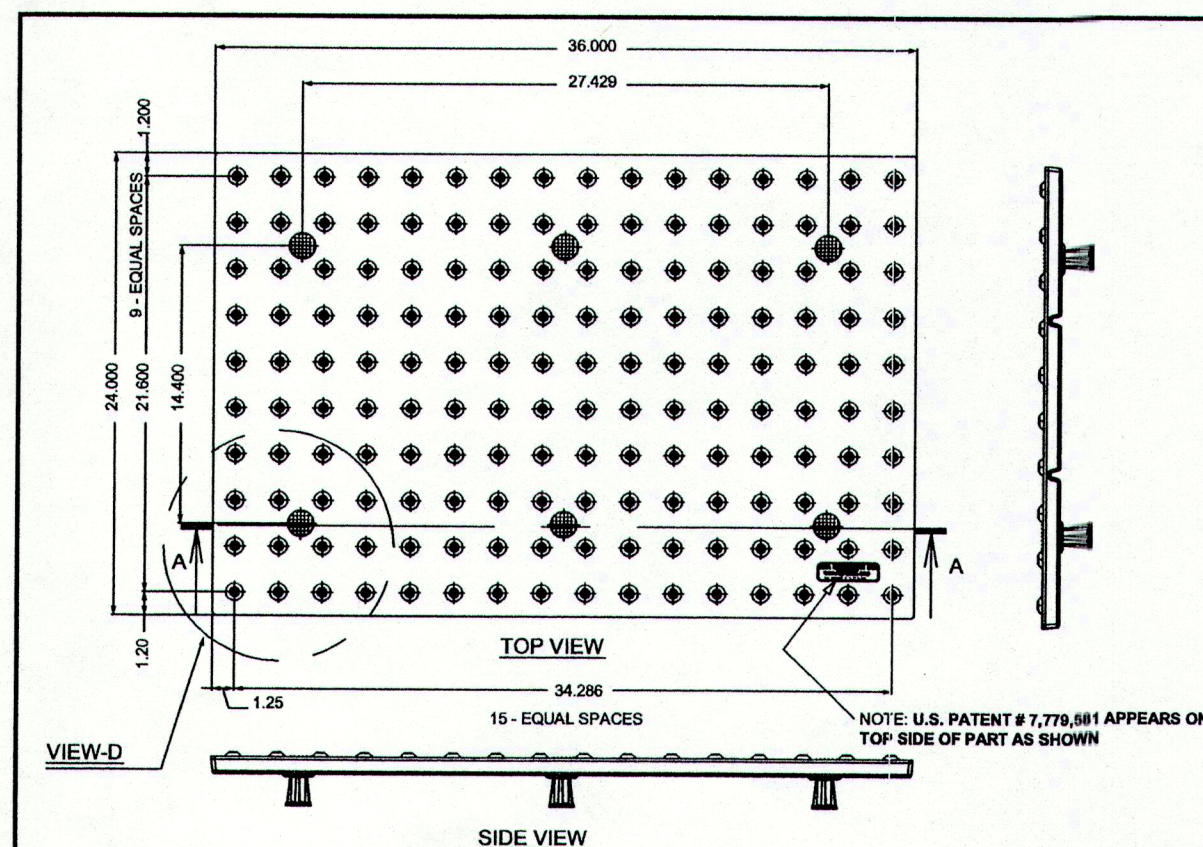
LAYOUT 2 PLAN VIEW (WITH ESPLANADE)



LAYOUT 1 PLAN VIEW (NO ESPLANADE)

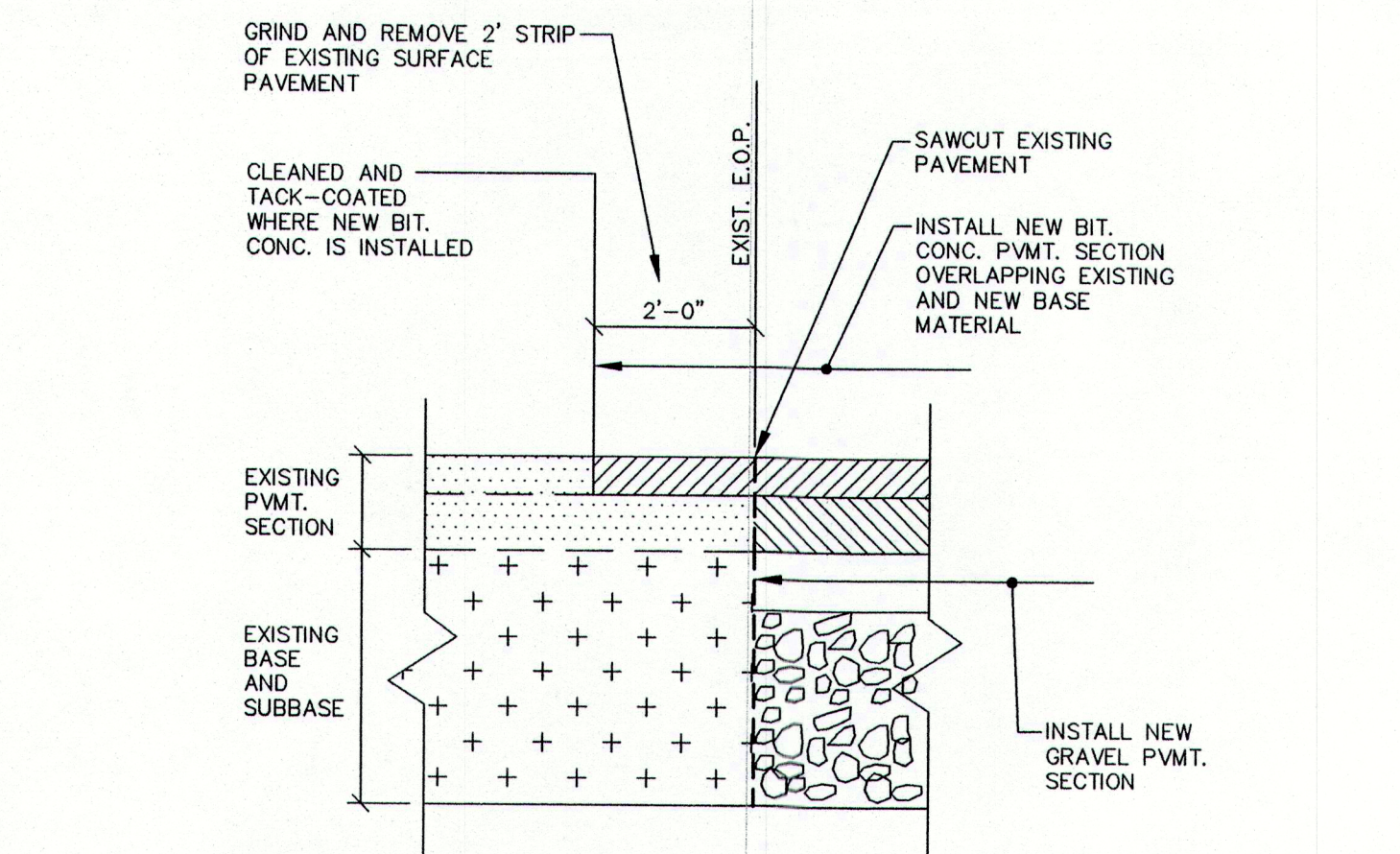
CONCRETE ADA DUSTPAN RAMP DETAIL - WITH DETECTABLE WARNING SURFACE

(A) N.T.S.



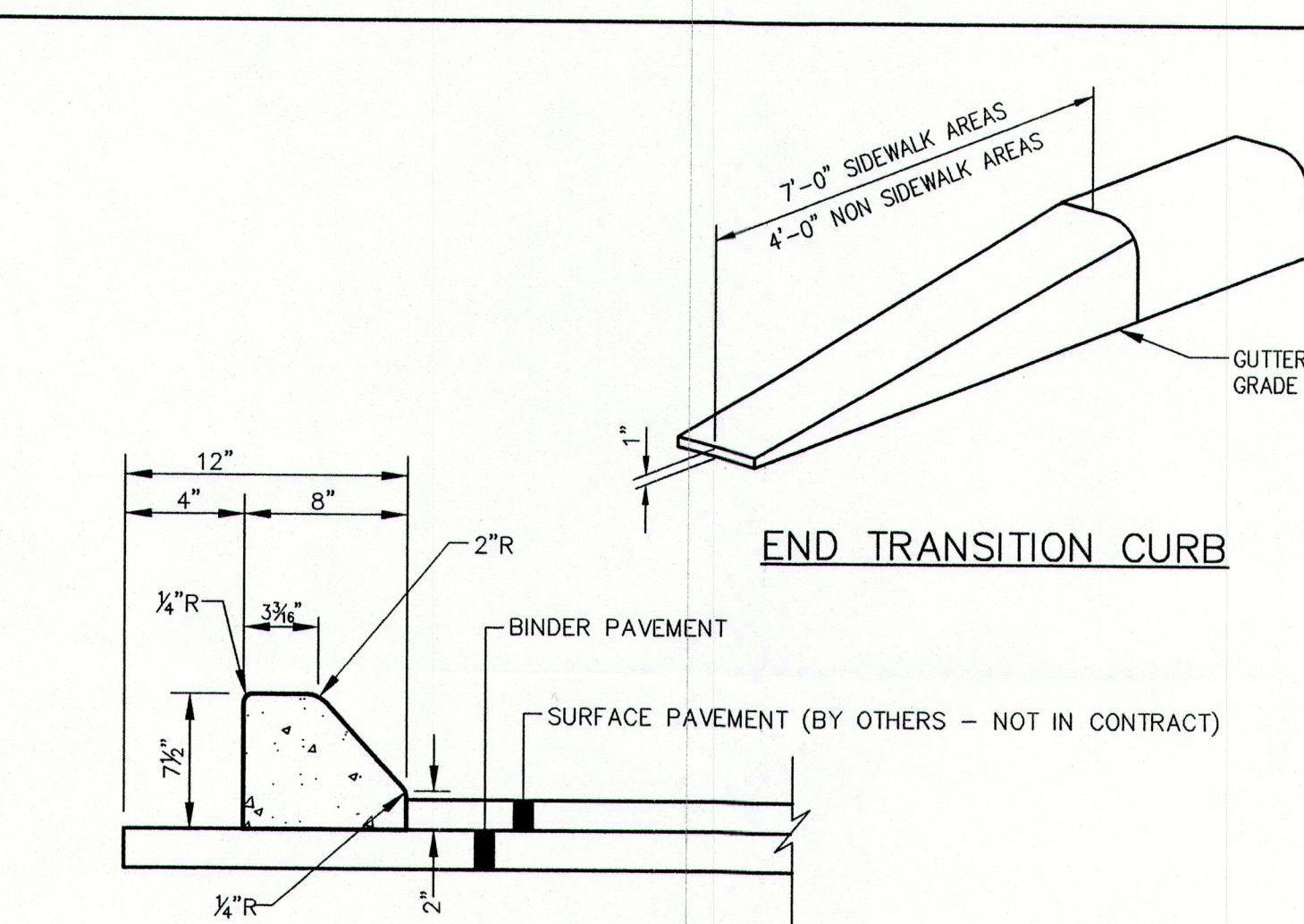
DETECTABLE WARNING SURFACE DETAIL

(B) N.T.S.



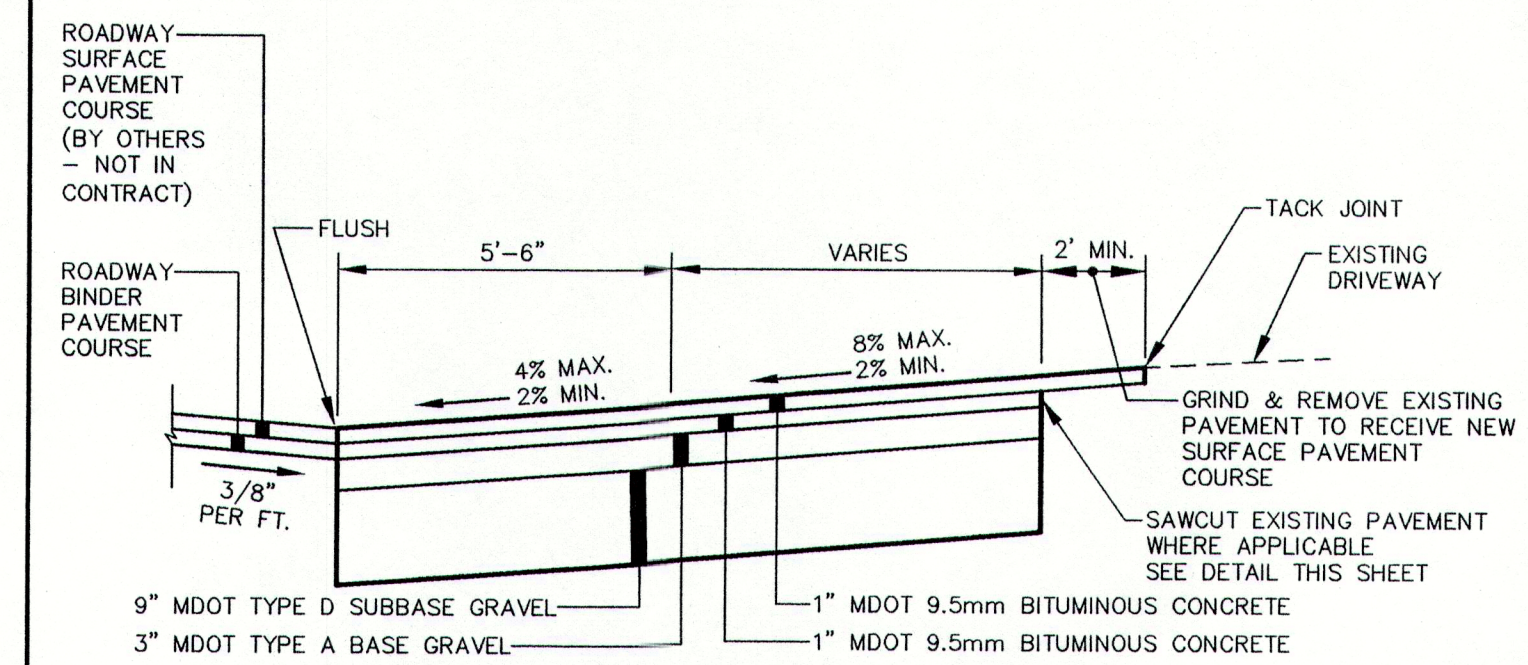
PAVEMENT SAWCUT - NEW PAVEMENT ADJACENT TO EXISTING PAVEMENT PAVEMENT SECTION

(C) N.T.S.

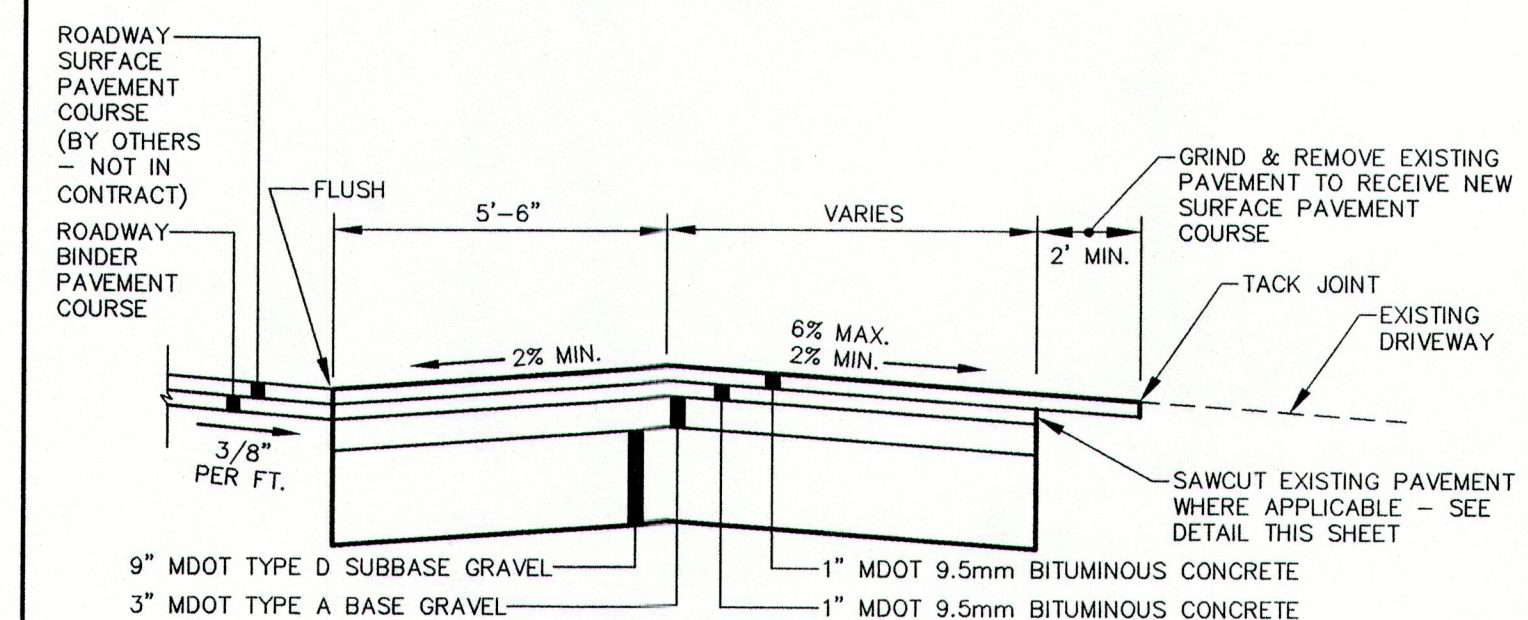


EXTRUDED SLIPFORM SLOPED CONCRETE CURB DETAIL

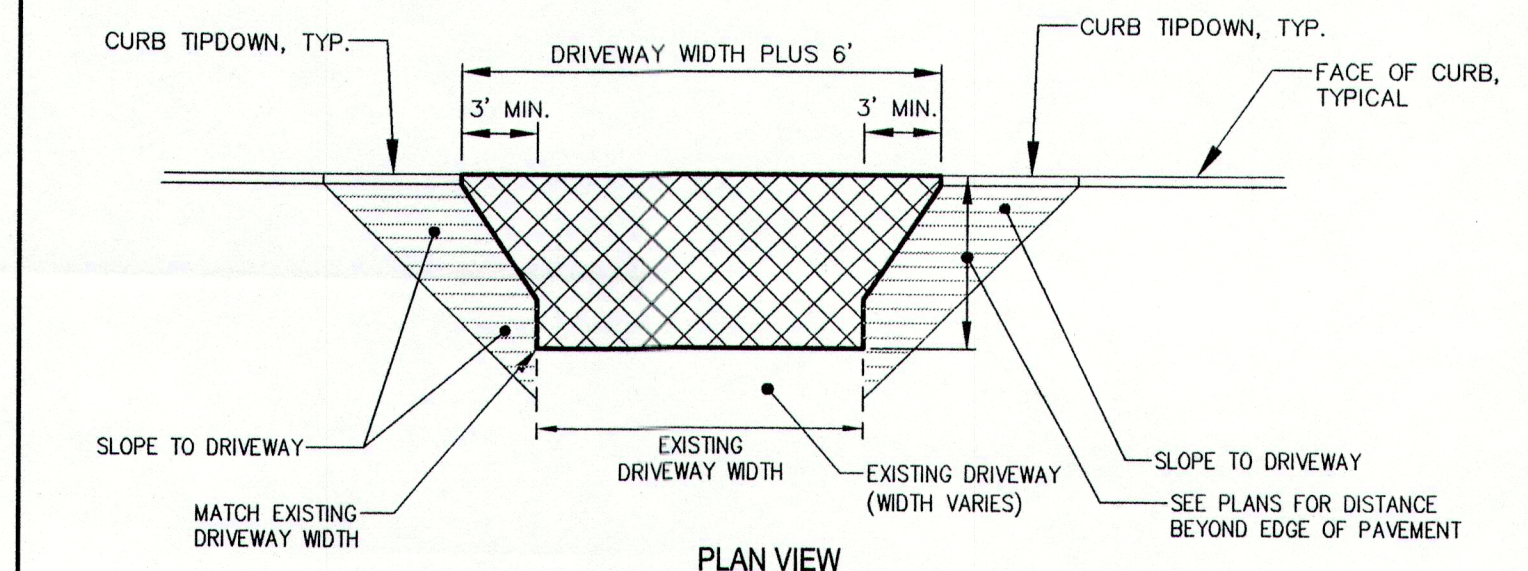
(D) N.T.S.



SECTION - OPTION 1

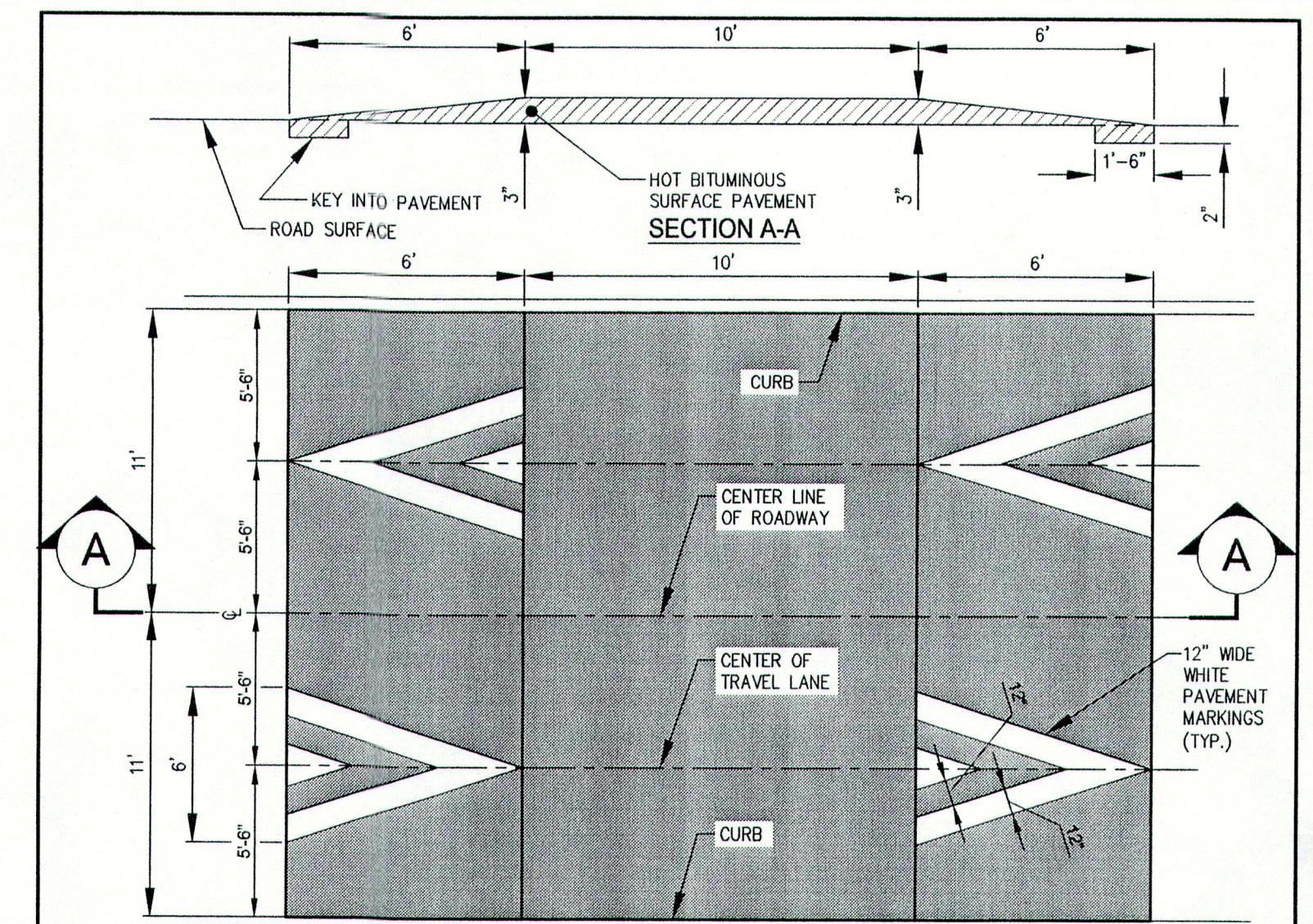


SECTION - OPTION 2



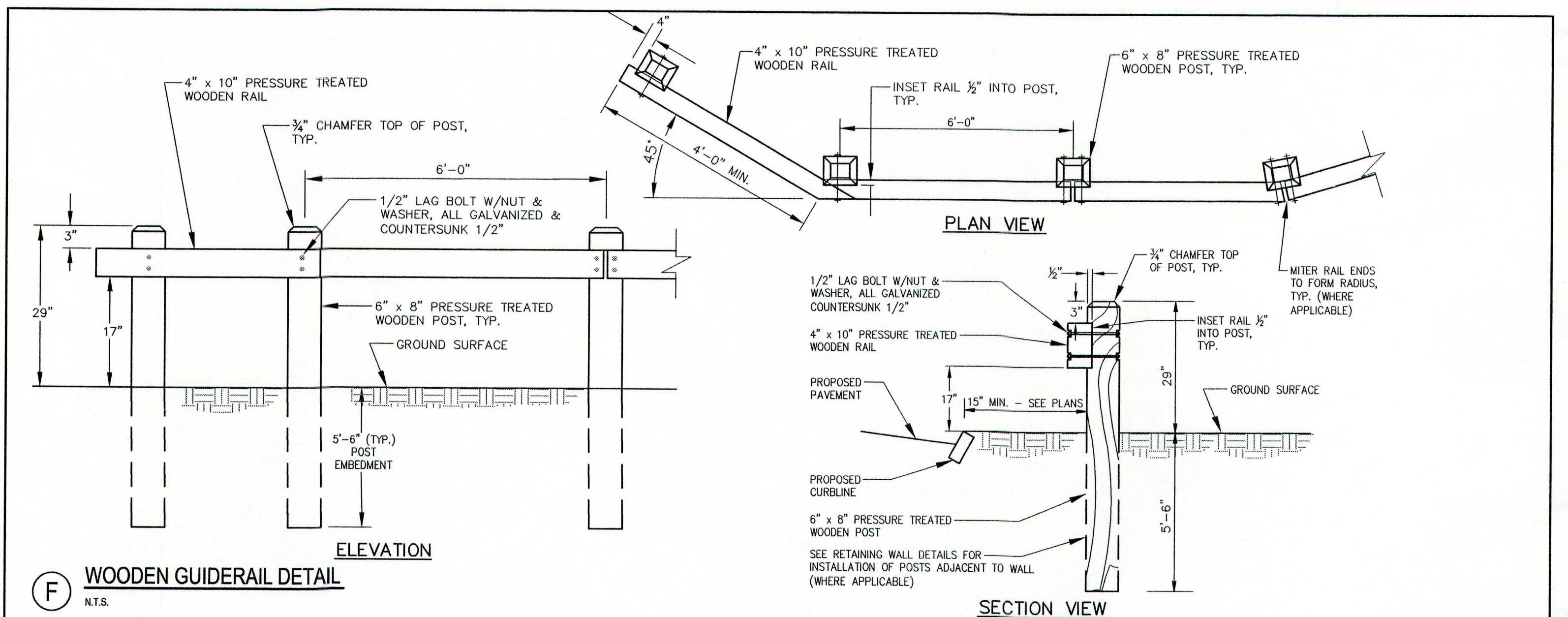
TYPICAL DRIVEWAY APRON PLAN VIEW & SECTION

(E) N.T.S.



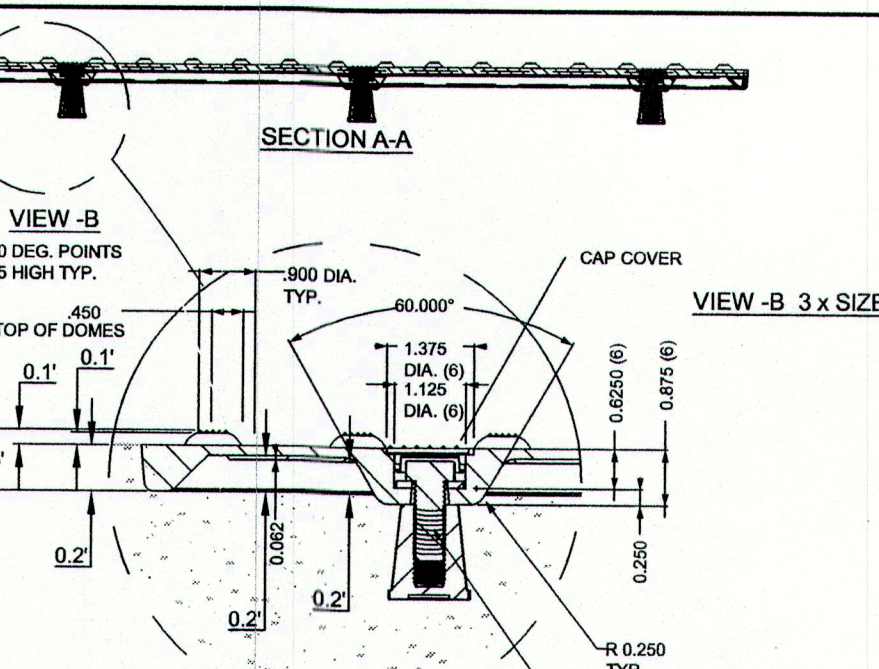
RAISED SPEED TABLE DETAIL

(G) N.T.S.



WOODEN GUIDERAIL DETAIL

(F) N.T.S.



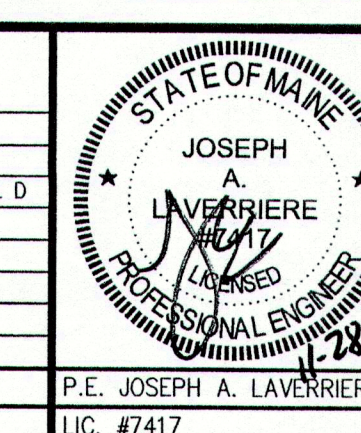
NOTE: DETECTABLE WARNING SURFACE SHALL BE ADA REPLACABLE (WET-SET) COMPOSITE TACTILE WARNING SURFACE AS MANUFACTURED BY:

ADA SOLUTIONS, INC.
P.O. BOX 3
NORTH BILLERICA, MA. 01862
1-800-372-0519
www.ada-tile.com

DETECTABLE WARNING SURFACE COLOR TO BE BRICK RED.

PROVIDE CONCRETE SETTING BED WITH DIMENSIONS OF 36"x60" FOR PLACEMENT OF WARNING SURFACE SYSTEM AS INCIDENTAL TO COST OF SYSTEM. PROVIDE FIBER REINFORCED CONCRETE 3000 PSI

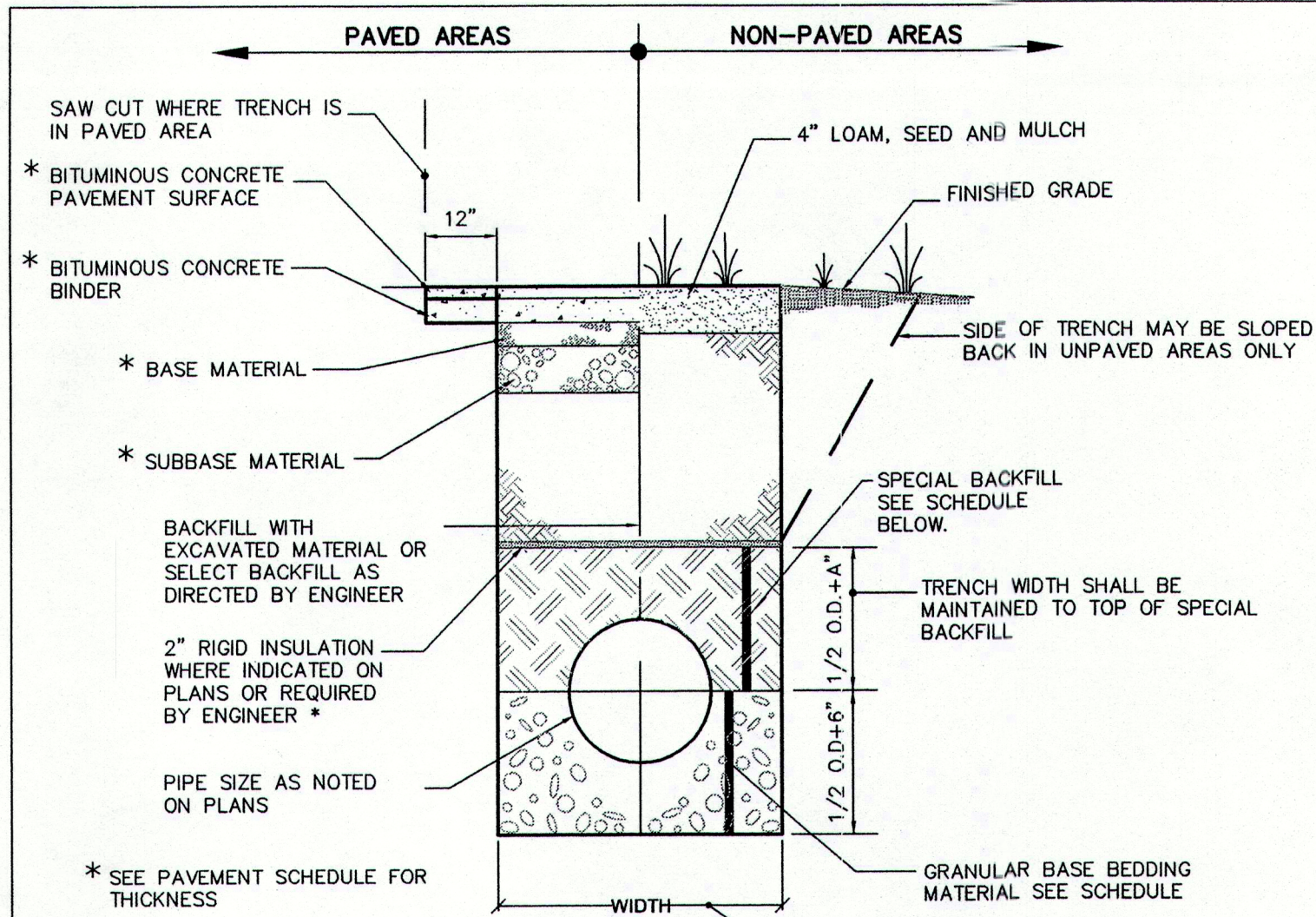
REV	DATE	DESCRIPTION
8	11.28.11	PHASE 1 CONSTRUCTION SET
7	09.13.11	RESUBMITTED TO TOWN
6	08.22.11	MODIFIED PAVEMENT WIDTH BEHIND FACE OF CURB ON DETAIL D
5	08.01.11	RESUBMITTED TO TOWN
4	07.22.11	REVISED PER TOWN COMMENTS AND RESUBMITTED
3	06.30.11	RESUBMITTED TO TOWN
2	06.21.11	REVISED PER INTERNAL REVIEW
1	05.31.11	SUBMITTED TO TOWN AND DEP



PROJECT	VILLAGE GREEN CUMBERLAND, MAINE
SHEET TITLE	PAVEMENT, CURB & SIDEWALK DETAILS
CLIENT	VILLAGE GREEN CUMBERLAND, LLC

DESIGNED: JAL	DATE: MAY 2011
CHECKED: JAL	SCALE: N.T.S.
FILE NAME: 2998-DET	JOB NO. 2998
SHEET	C-10.2

DeLUCA-HOFFMAN ASSOCIATES, INC.
778 MAIN STREET, SUITE 8
SOUTH PORTLAND, ME 04106
207.775.1151
WWW.DELUCAHOFFMAN.COM



NOTE: SERVICES TO BE SIMILAR EXCEPT MINIMUM PAY WIDTH IS 2 1/2 FT. WHERE APPLICABLE.

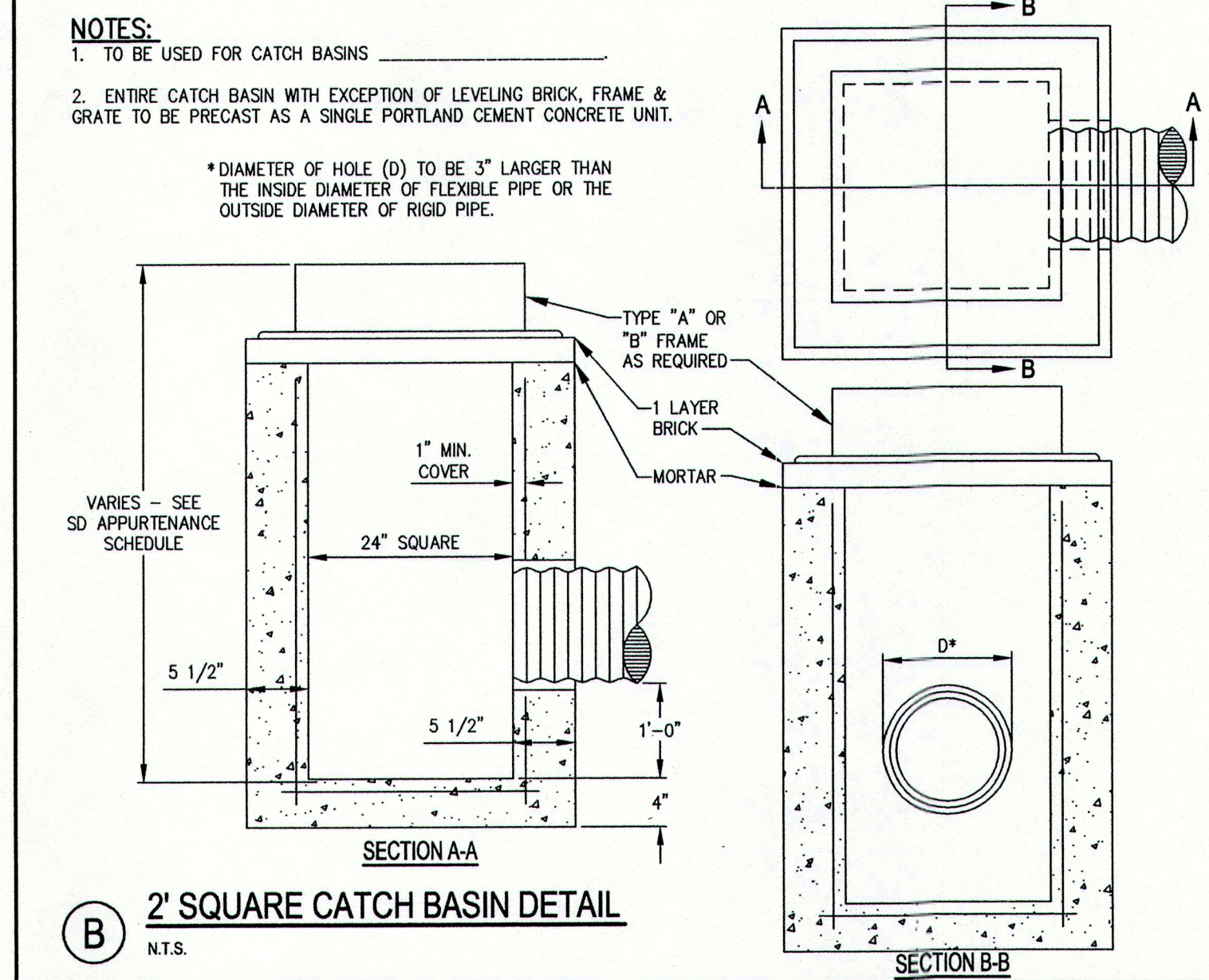
SCHEDULE OF BASE BACKFILL FOR NON-SANITARY INSTALLATIONS

TYPE OF PIPE	BEDDING MATERIAL	SPECIAL BACKFILL	SPECIAL BACKFILL COVER "A" (IN)	SELECT BACKFILL
CONCRETE	3/4" CRUSHED STONE	GRANULAR AASHTO M145-49 A-3 OR BETTER	12	GRANULAR AASHTO M145-49 A-3 OR BETTER
PVC	3/4" CRUSHED STONE	GRANULAR AASHTO M145-49 A-3 OR BETTER	6	GRANULAR AASHTO M145-49 A-3 OR BETTER
CMP	3/4" CRUSHED STONE	GRANULAR AASHTO M145-49 A-3 OR BETTER	6	GRANULAR AASHTO M145-49 A-3 OR BETTER
DUCTILE IRON	GRANULAR AASHTO M145-49 A-3 OR BETTER	GRANULAR AASHTO M145-49 A-3 OR BETTER	6	GRANULAR AASHTO M145-49 A-3 OR BETTER

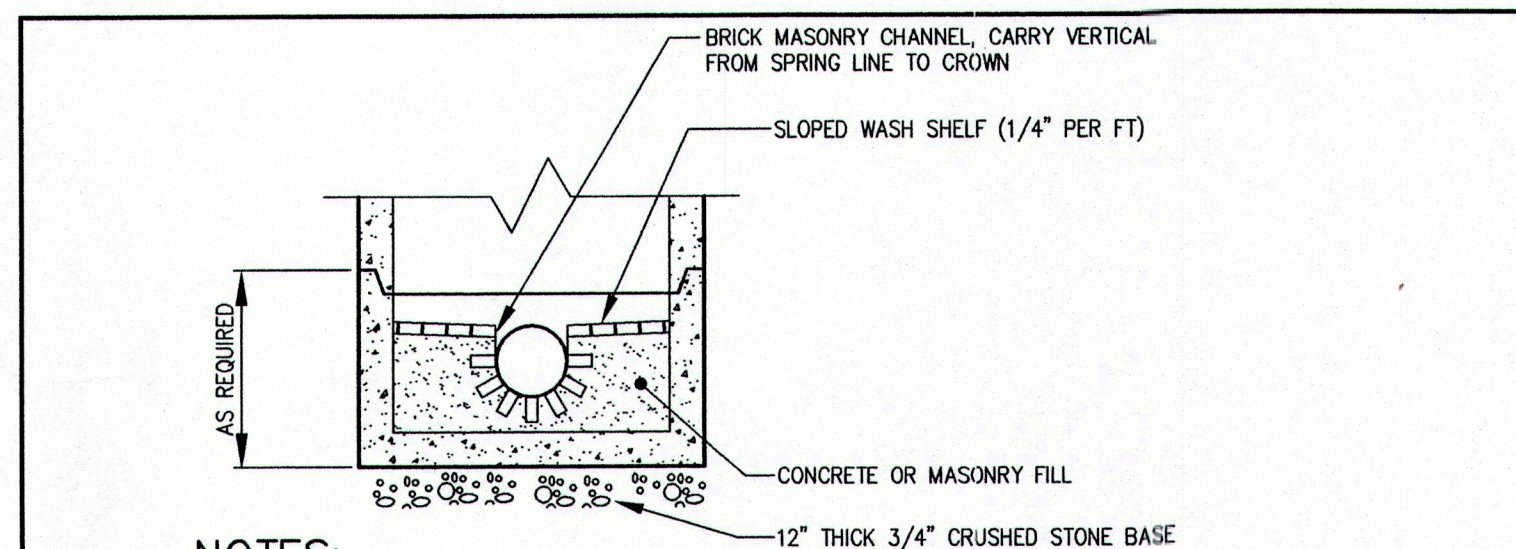
MAXIMUM ALLOWABLE TRENCH WIDTHS FOR SEWERS	
PIPE SIZE 10" OR LESS	MAXIMUM WIDTH
12 TO 14	4'-0"
16	4'-6"
20	5'-0"
24	5'-6"
30	6'-0"
36	6'-6"
42	7'-0"
48	7'-6"

SHEETING, IF REQUIRED, SHALL BE CUT OFF 2'-0" BELOW FINISH GRADE.

(A) TYPICAL STORM DRAIN TRENCH SECTION DETAIL
N.T.S.

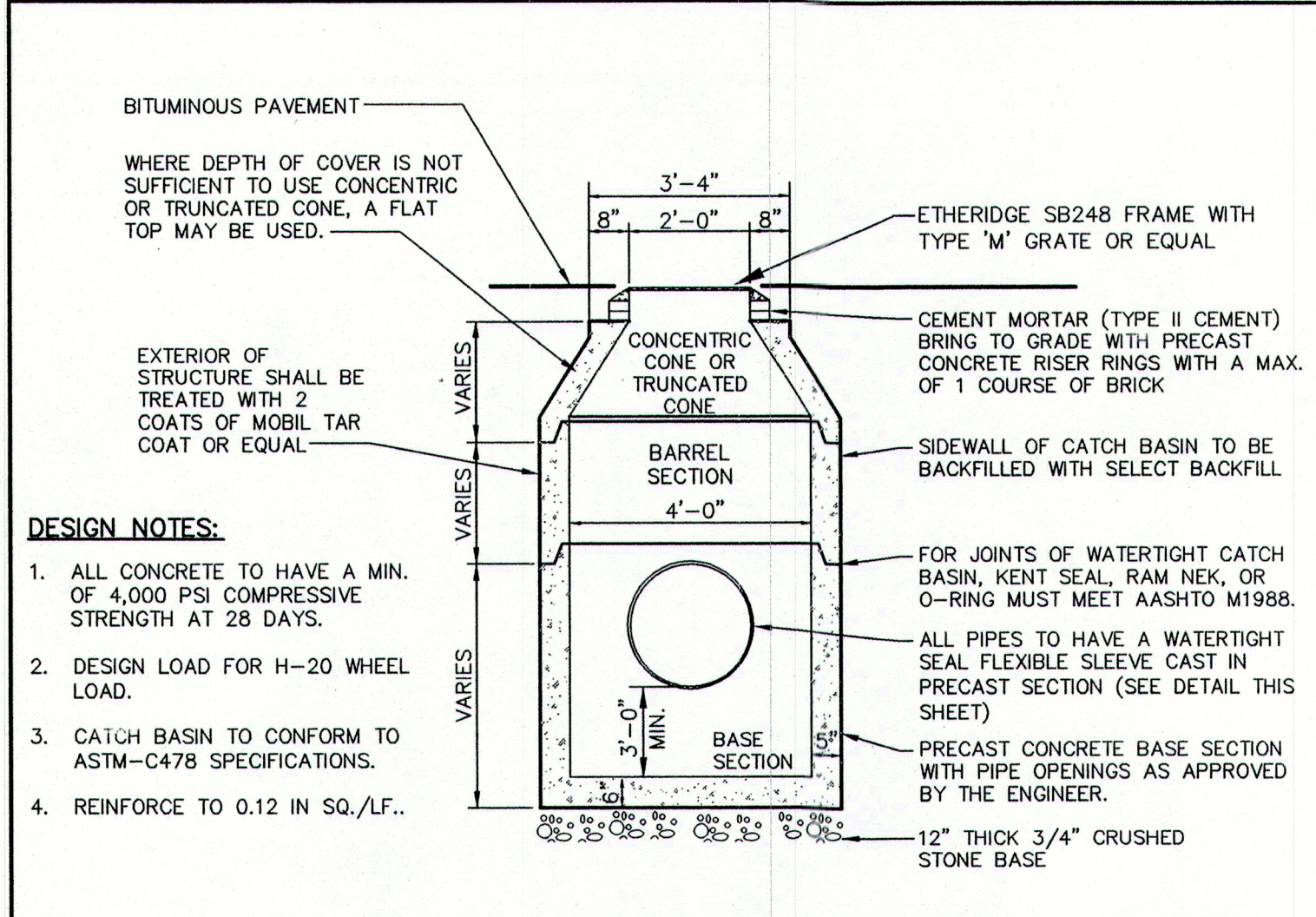


(B) 2' SQUARE CATCH BASIN DETAIL
N.T.S.

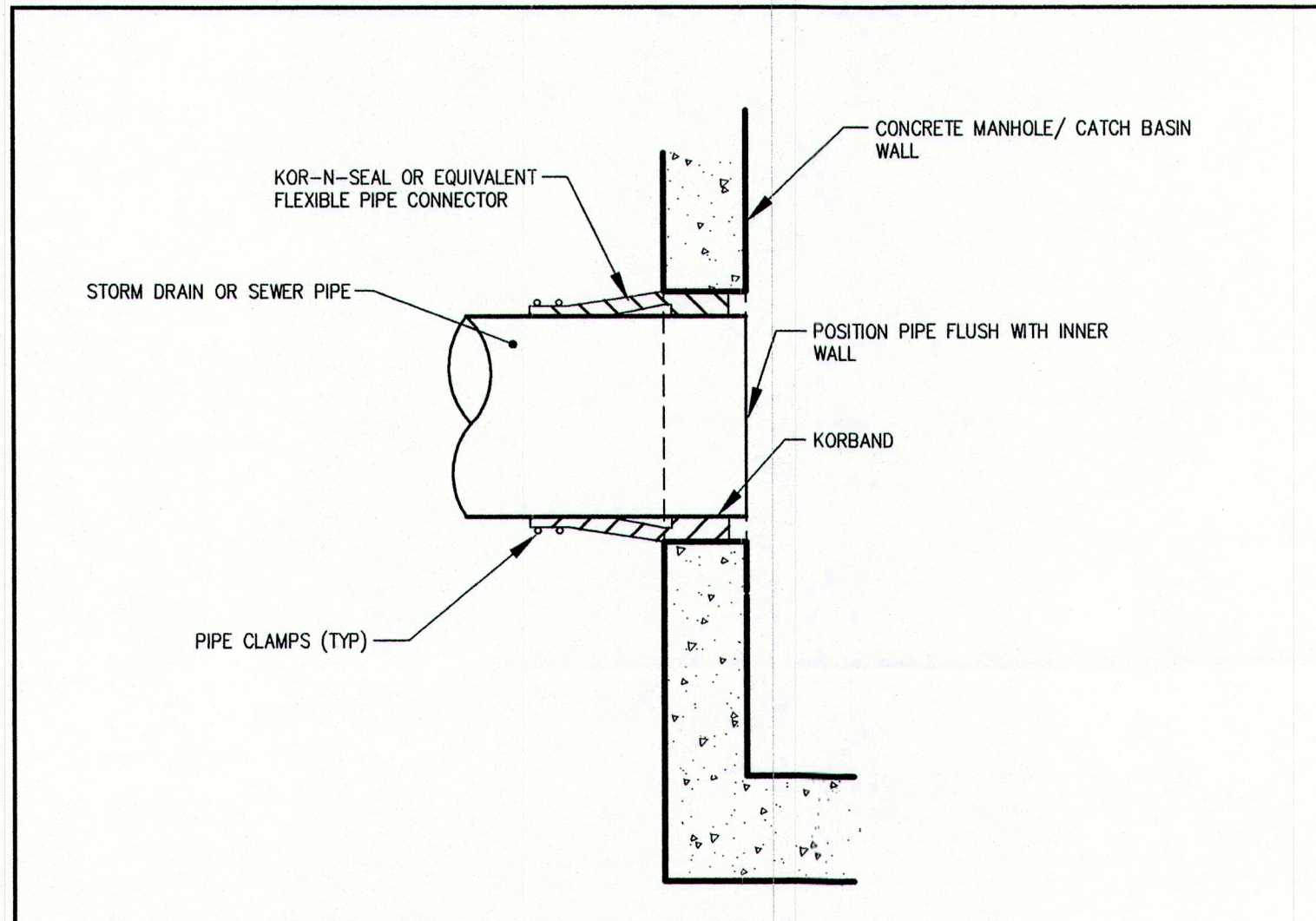


NOTES:
1. BRICK CHANNEL TO BE AASHTO M-91-42 GRADE SA SEWER BRICK.
2. MANHOLE TEST TO BE PERFORMED AFTER CHANNEL INSTALLATION IS COMPLETE.
3. WHERE THE ALIGNMENT CHANGES OR SIDE FLOW ENTERS THE MANHOLE, CONSTRUCT CHANNEL WITH A SMOOTH RADIAL CHANNEL TO ACCOMPLISH ALL JUNCTIONAL CHANGE OF ALIGNMENT WITHIN MANHOLE.

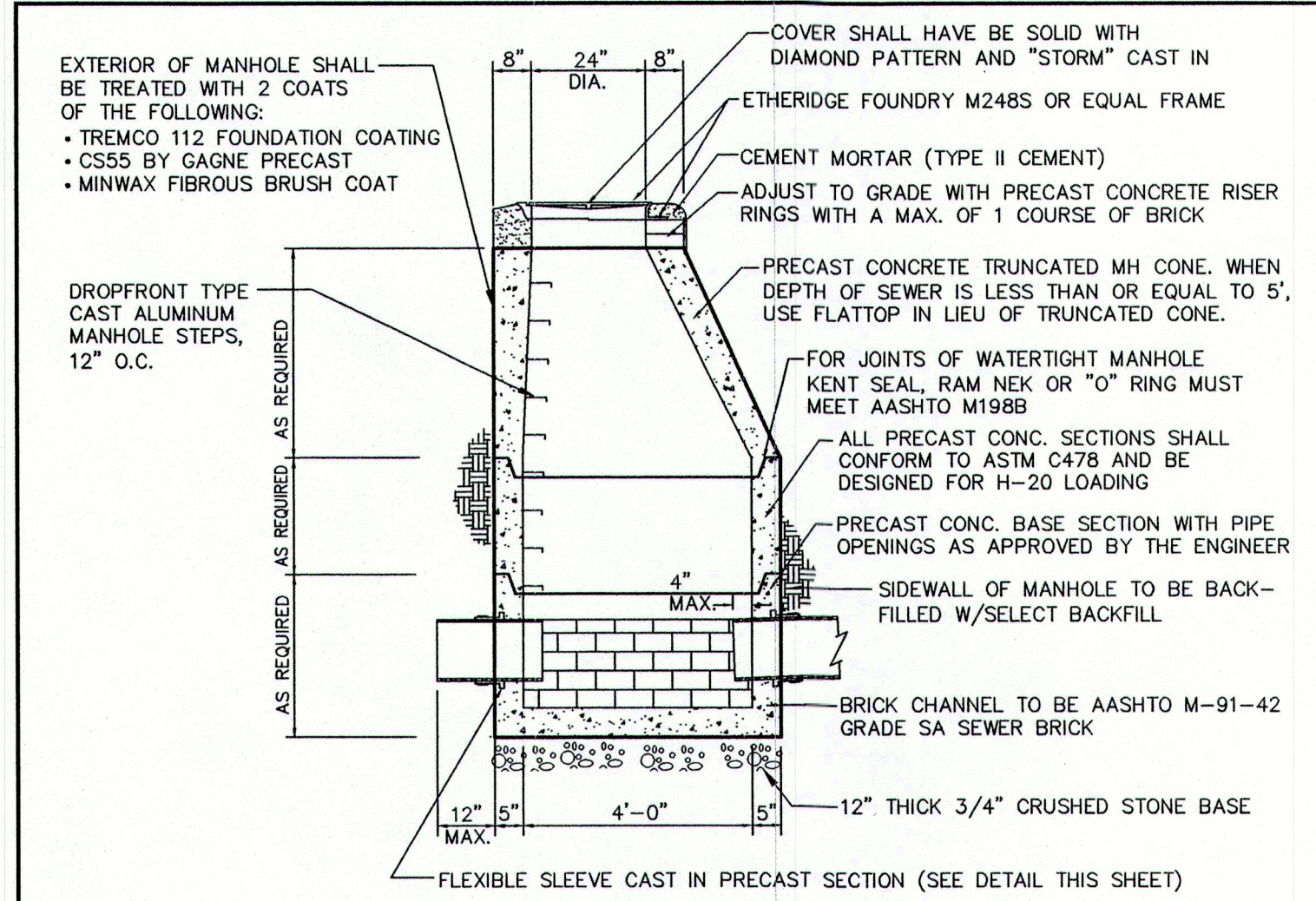
(C) MANHOLE BRICK CHANNEL INSTALLATION DETAIL
N.T.S.



(D) 4'-0" PRECAST CATCH BASIN DETAIL
N.T.S.



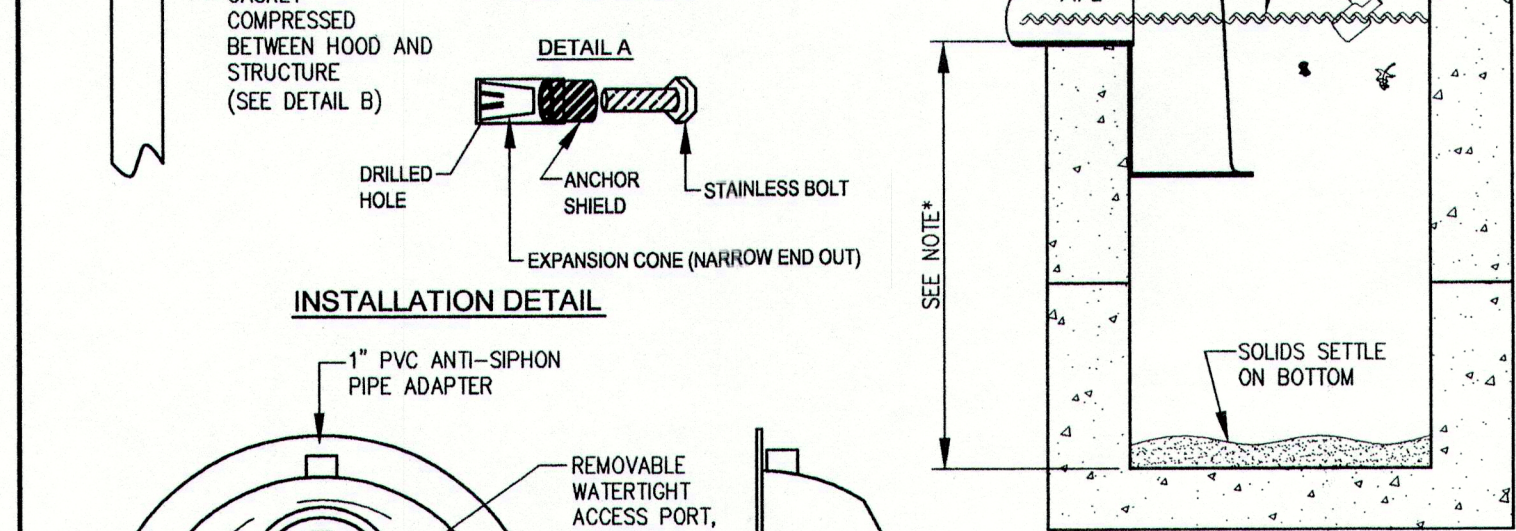
(E) PIPE CONNECTION TO PRECAST CONCRETE SANITARY SEWER AND STORM DRAINAGE STRUCTURES
N.T.S.



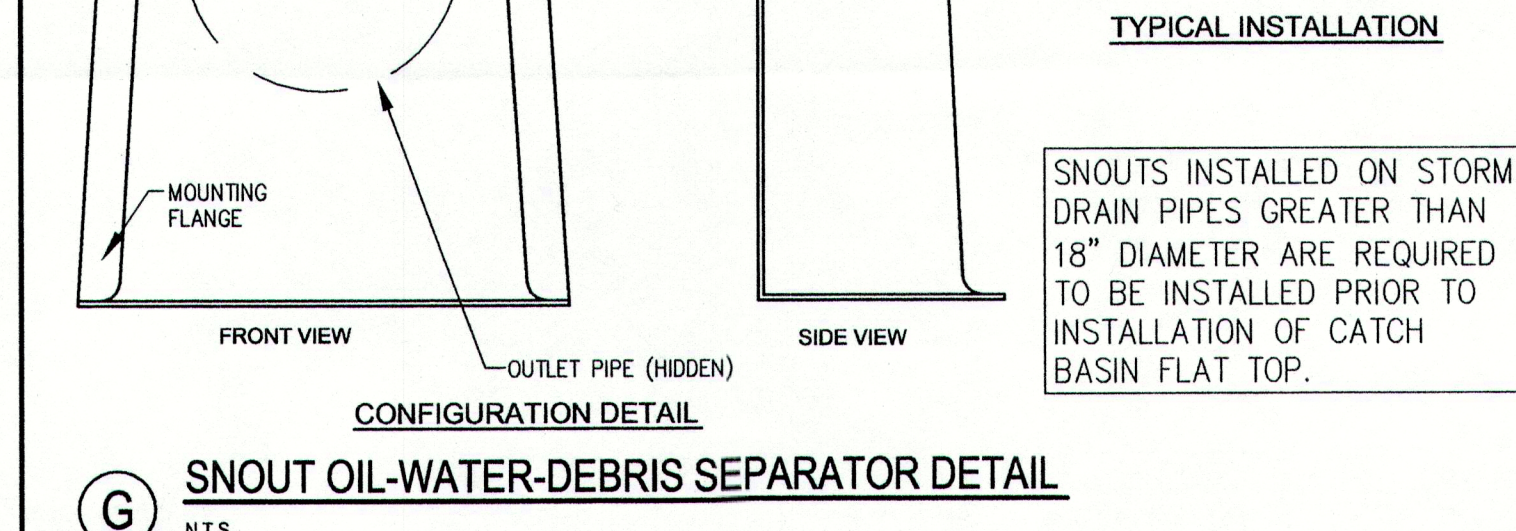
(F) 4'-0" PRECAST CONCRETE STORM DRAIN MANHOLE DETAIL
N.T.S.

NOTES:
1. ALL HOODS AND TRAPS FOR CATCH BASINS AND WATER QUALITY STRUCTURES SHALL BE AS MANUFACTURED BY BEST MANAGEMENT PRODUCTS, INC. TOLL FREE: (800) 504-8008 OR (888) 354-7585. WEB SITE: www.bmpinc.com OR PRE-APPROVED EQUAL.
2. ALL HOODS SHALL BE CONSTRUCTED OF A GLASS REINFORCED RESIN COMPOSITE WITH ISO GEL COAT EXTERIOR FINISH WITH A MINIMUM 0.125" LAMINATE THICKNESS.
3. ALL HOODS SHALL BE EQUIPPED WITH A WATERTIGHT ACCESS PORT, A MOUNTING FLANGE, & AN ANTI-SIPHON VENT AS DRAWN. (SEE CONFIGURATION DETAIL).
4. THE SIZE AND POSITION OF THE HOOD SHALL BE DETERMINED BY OUTLET PIPE SIZE IN ACCORDANCE WITH THE FOLLOWING TABLE:

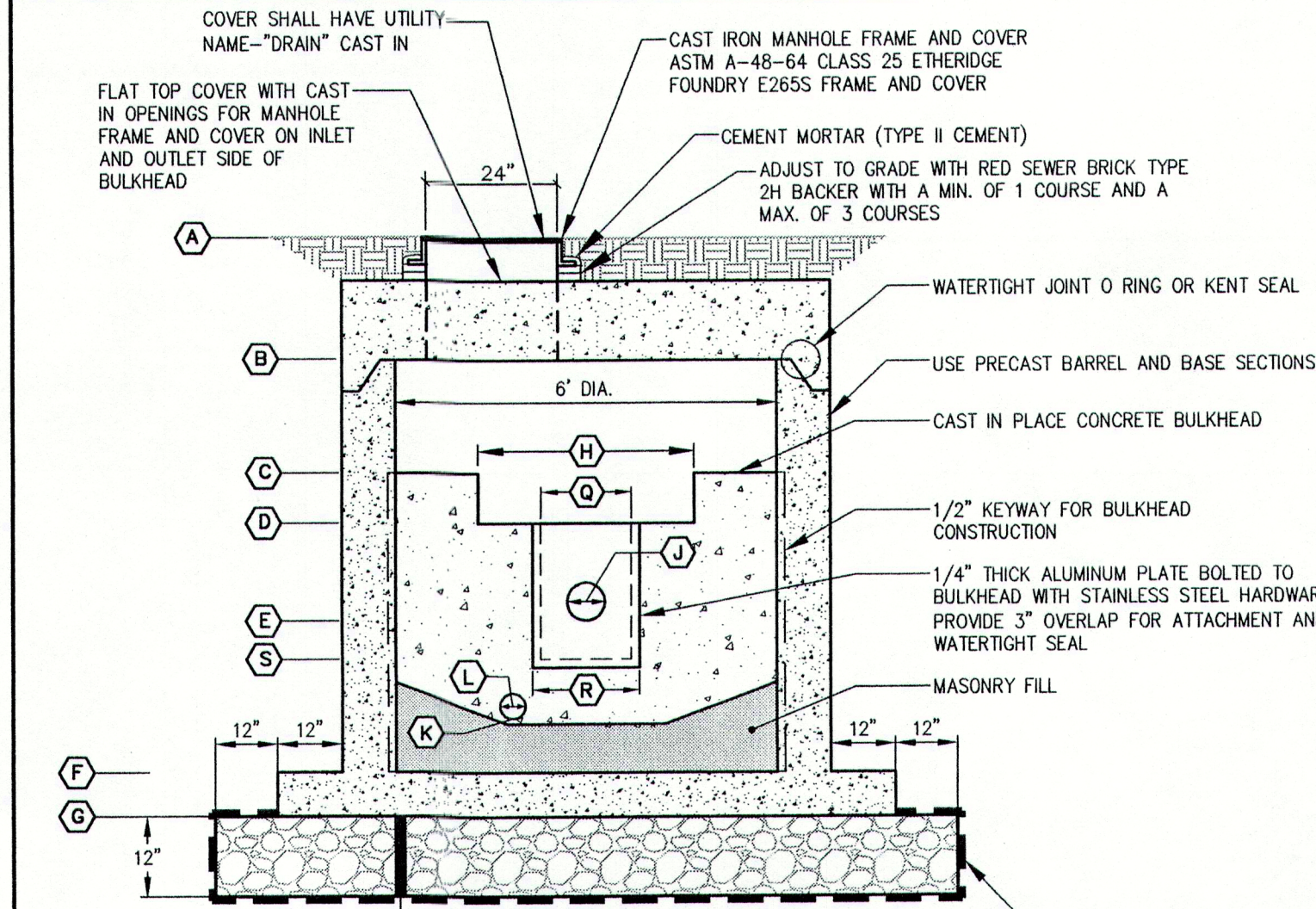
STRUCTURE OUTLET HOLE SIZE	SNOUT SIZE
11.9" O.D. OR LESS	12 F or R
12.0"-17.9" O.D.	18 F or R
18.0"-23.9" O.D.	24 F or R
24.0"-29.9" O.D.	30 F or R
30.0"-47.9" O.D.	48 F
48.0"-95.9" O.D.	96 F



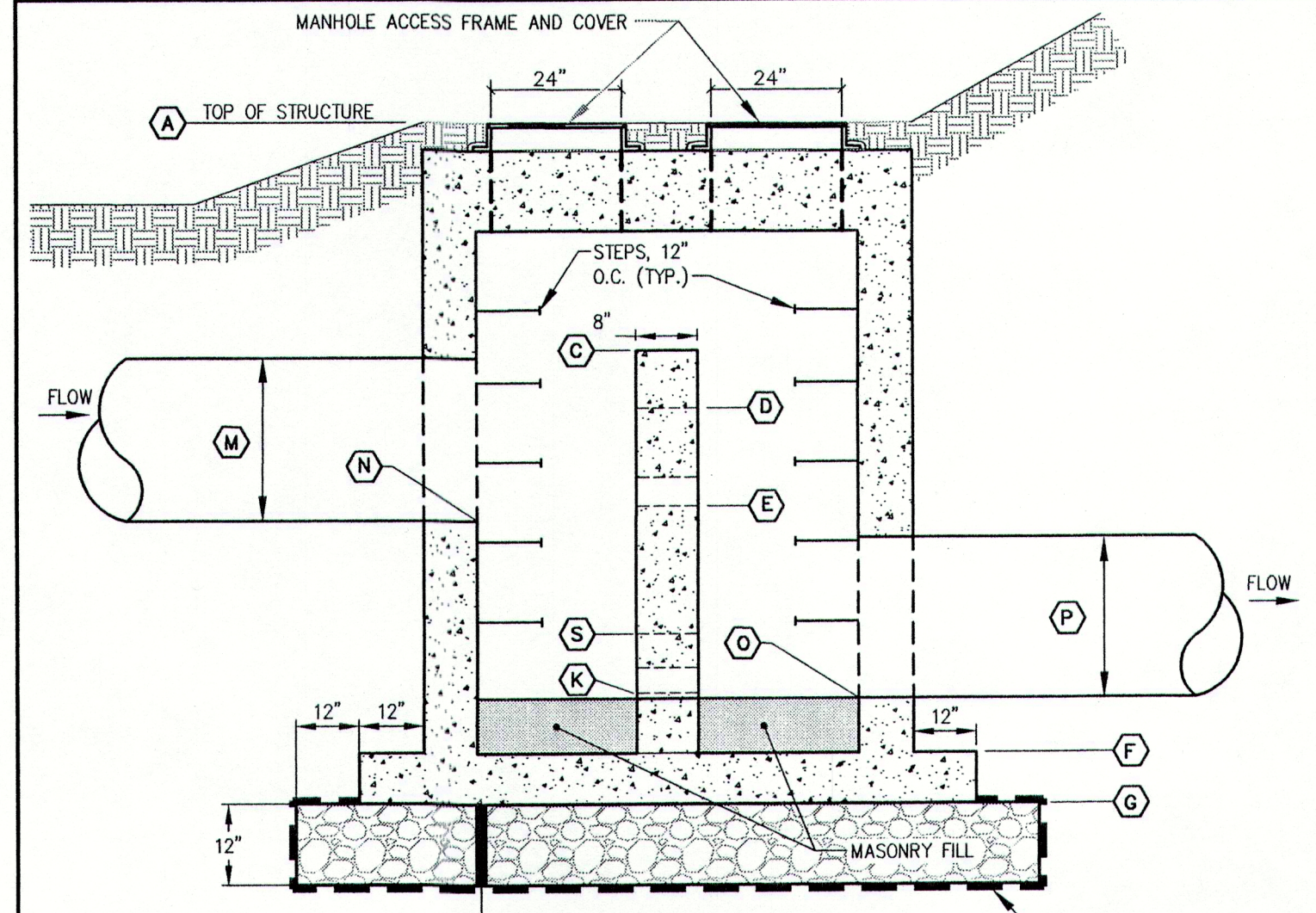
(G) SNOUT OIL-WATER-DEBRIS SEPARATOR DETAIL
N.T.S.



(H) TYPICAL UNDERDRAIN TRENCH SECTION DETAIL
N.T.S.



(I) OUTLET CONTROL STRUCTURE SECTION A-A
N.T.S.

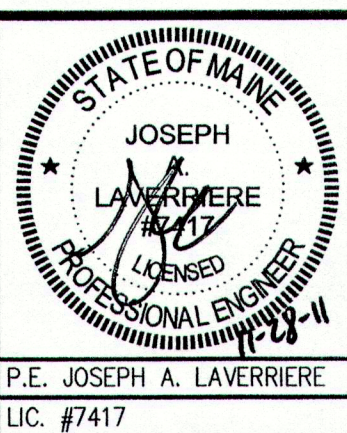


(J) OUTLET CONTROL STRUCTURE SECTION B-B
N.T.S.

SCHEDULE A OUTLET CONTROL STRUCTURE	
ITEM DESCRIPTION	DIMENSION/ELEVATION
(A) TOP OF STRUCTURE	87.50
(B) UNDERSIDE TOP SLAB	86.60
(C) TOP CONCRETE BULKHEAD	84.60
(D) TOP OF WEIR ELEVATION	84.20
(E) UPPER ORIFICE INVERT	81.75
(F) BOTTOM OF SUMP	79.90
(G) BOTTOM OF STRUCTURE	79.23
(H) WEIR LENGTH	4'
(I) UPPER ORIFICE DIAMETER	6"
(J) LOWER ORIFICE INVERT	81.00
(K) LOWER ORIFICE DIAMETER	4"
(L) INLET PIPE DIAMETER	18"
(M) INVERT IN	81.00
(N) INVERT OUT	80.90
(O) OUTLET PIPE DIAMETER	18"
(P) WIDTH OF NOTCH IN BULKHEAD	12"
(Q) WIDTH OF ALUMINUM PLATE	18"
(R) BOTTOM OF NOTCH IN BULKHEAD	81.40

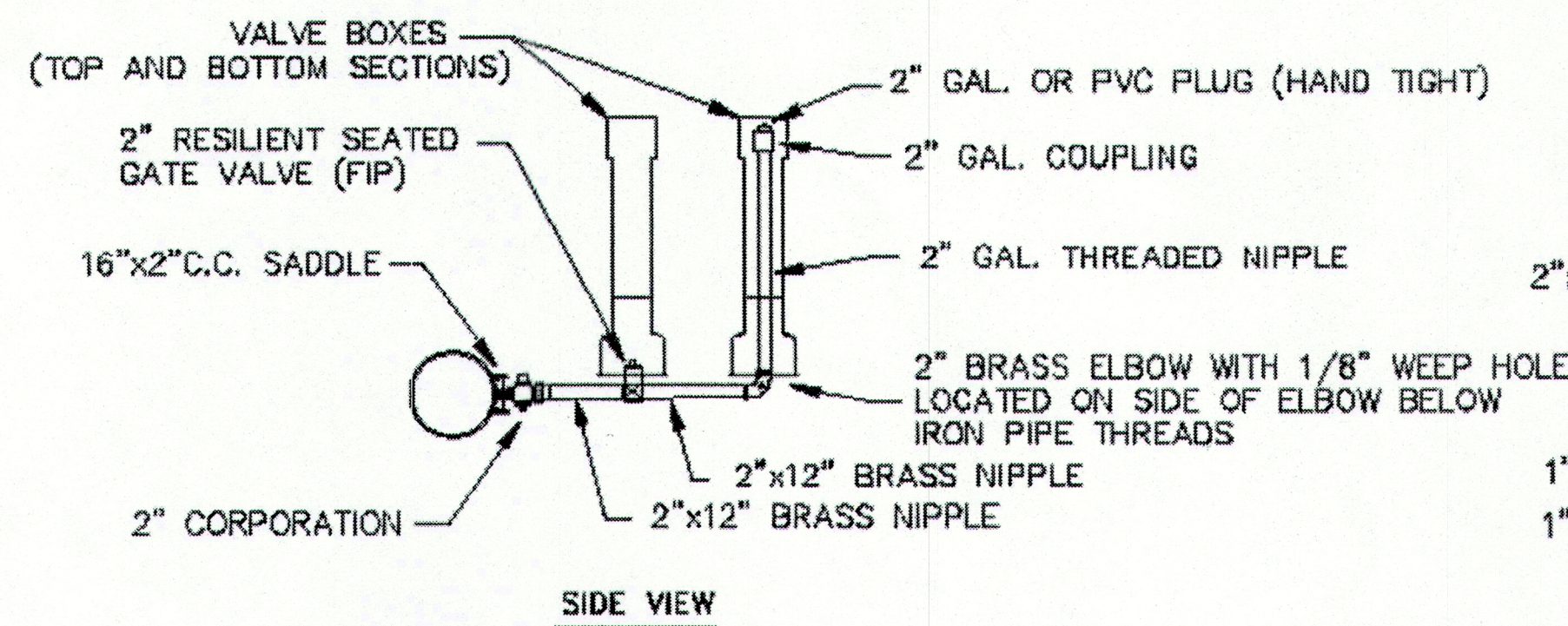
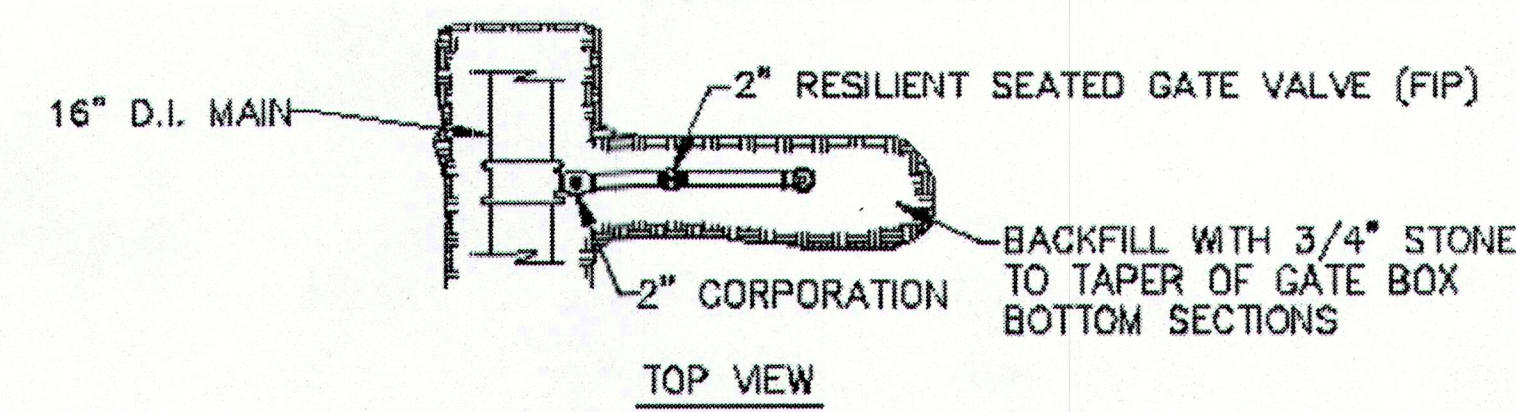
(K) SCHEDULE A OUTLET CONTROL STRUCTURE
N.T.S.

REV	DATE	DESCRIPTION
7	11.28.11	PHASE 1 CONSTRUCTION SET
6	09.13.11	RESUBMITTED TO TOWN
5	08.01.11	RESUBMITTED TO TOWN
4	07.22.11	REVISED PER TOWN COMMENTS AND RESUBMITTED
3	06.30.11	RESUBMITTED TO TOWN
2	06.21.11	REVISED PER INTERNAL REVIEW
1	05.31.11	SUBMITTED TO TOWN AND DEP
REV	DATE	DESCRIPTION

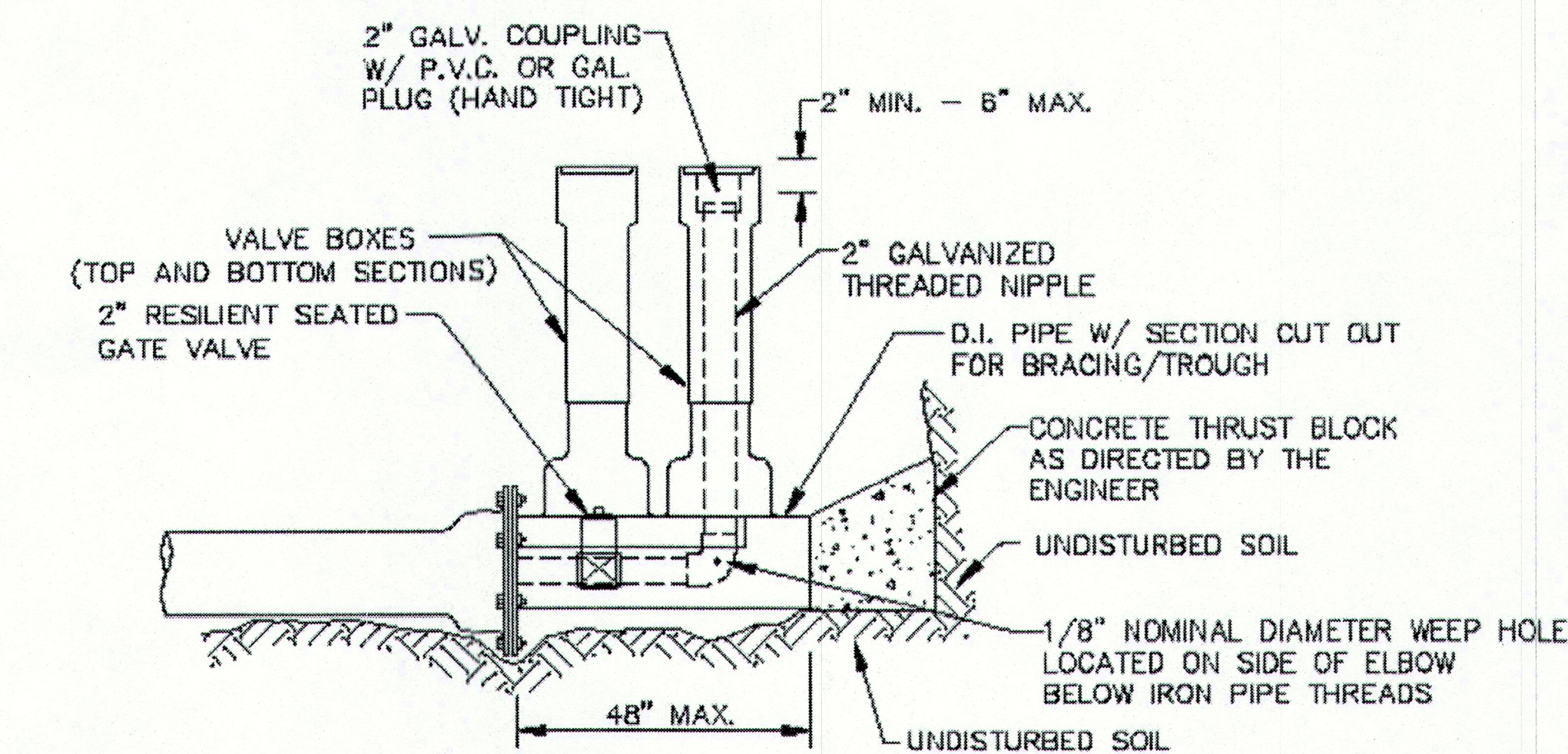
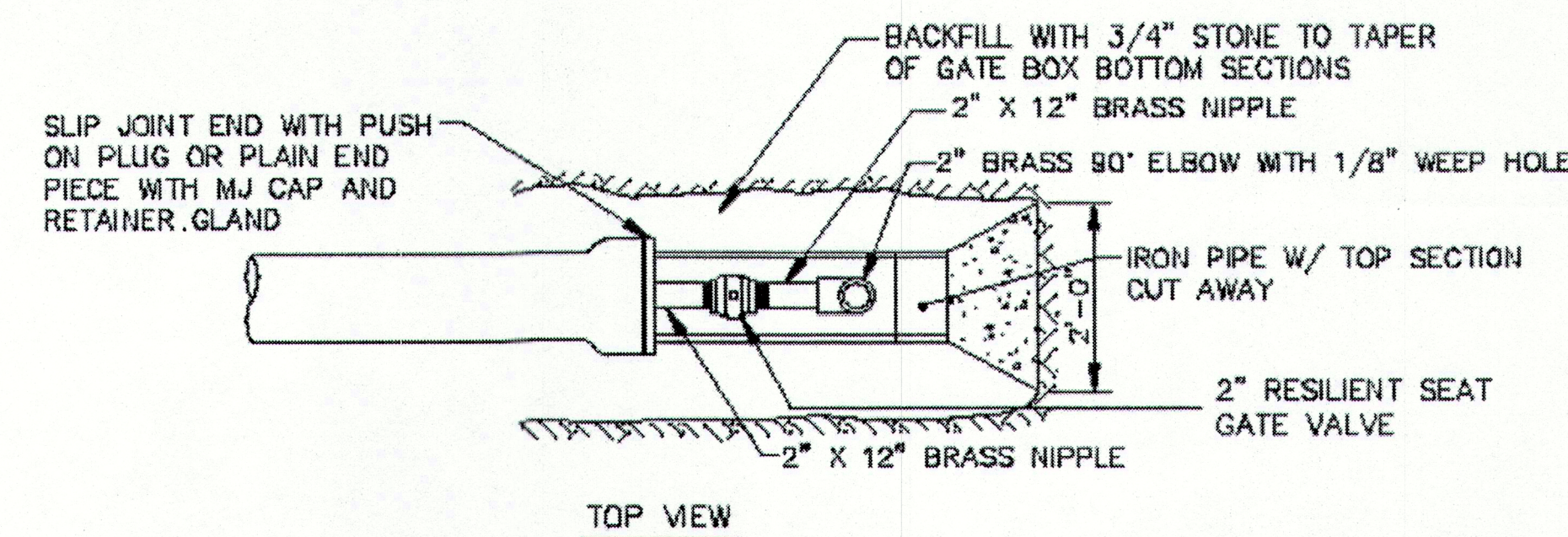


PROJECT
VILLAGE GREEN
CUMBERLAND, MAINE
SHEET TITLE
STORM DRAIN DETAILS
CLIENT
VILLAGE GREEN
CUMBERLAND, LLC

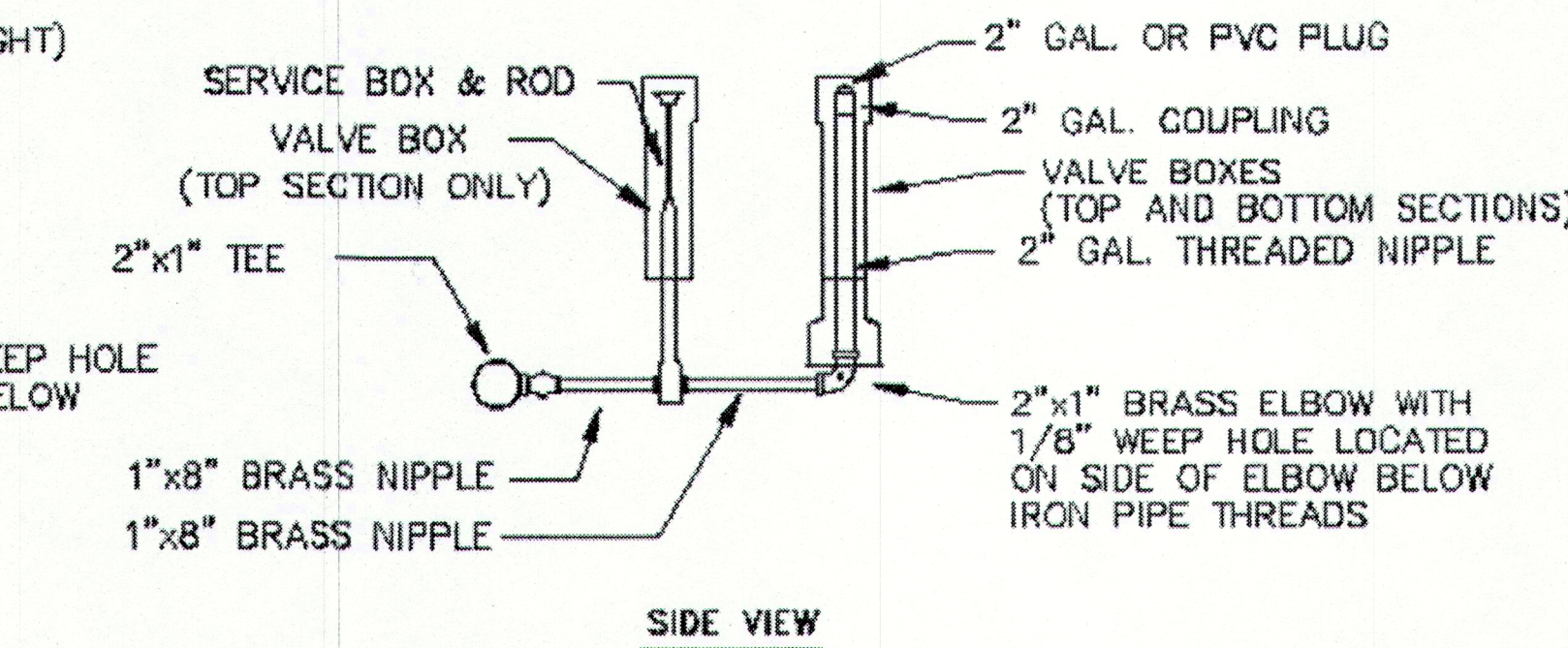
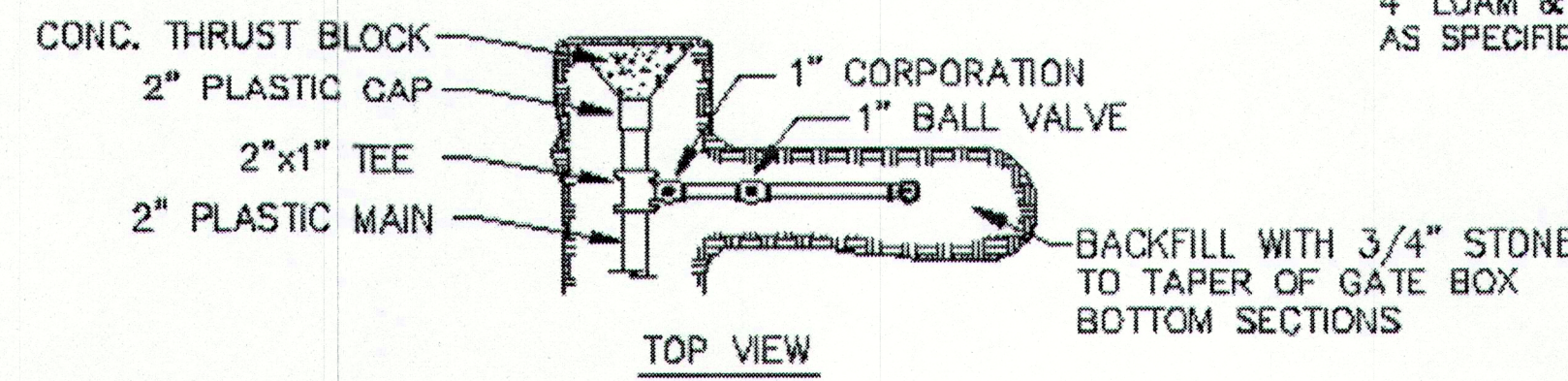
DeLUCA-HOFFMAN ASSOCIATES, INC.
778 MAIN STREET, SUITE 8
SOUTH PORTLAND, ME 04106
207.775.1121
WWW.DELUCAHOFFMAN.COM
DRAWN: CDD DATE: MAY 2011
DESIGNED: JAL SCALE: N.T.S.
CHECKED: JAL JOB NO. 2998
FILE NAME: 2998-DET
SHEET C-10.3



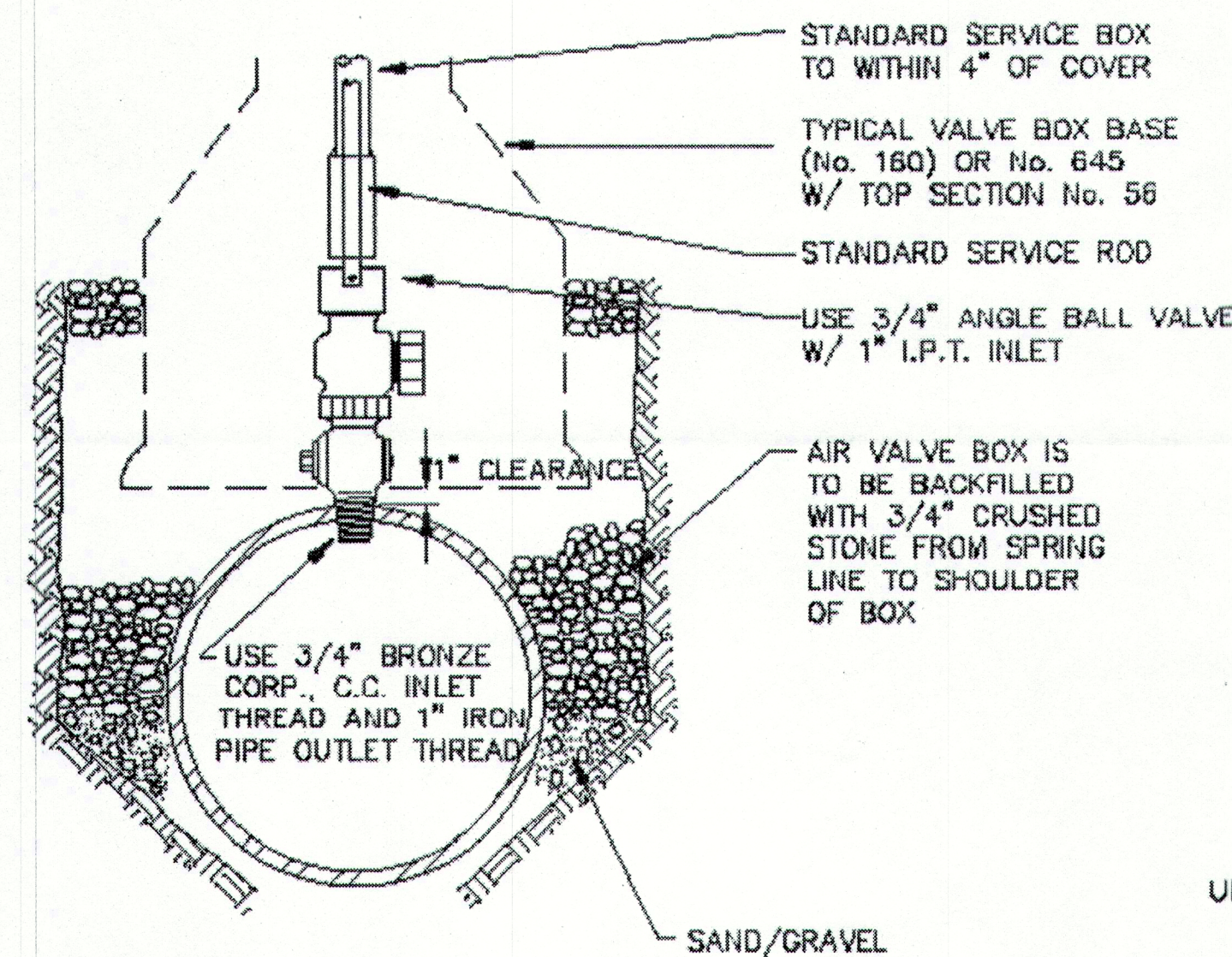
SIDE-ARM BLOW-OFF
4" & LARGER MAINS



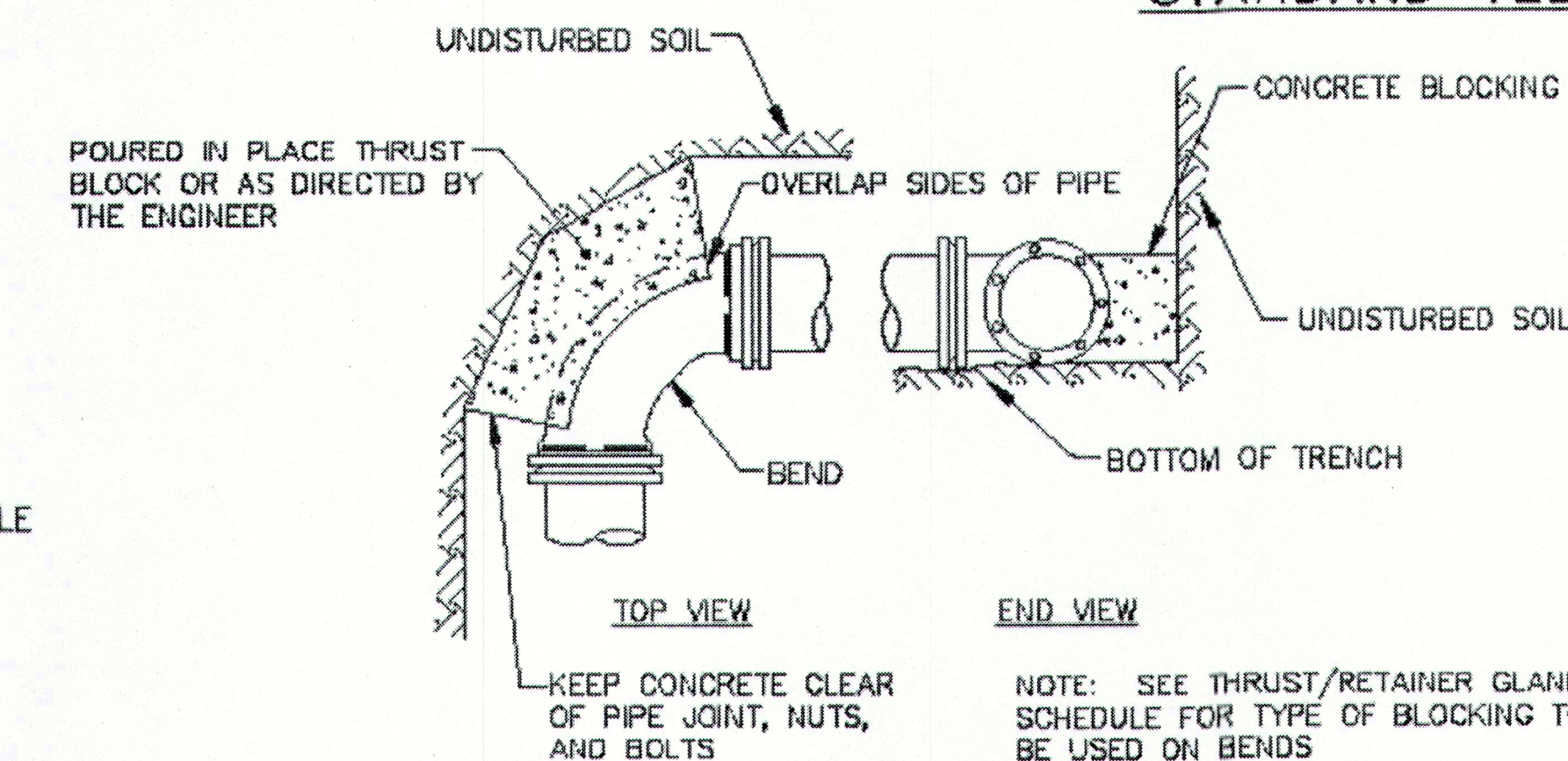
STANDARD 2" BLOW OFF



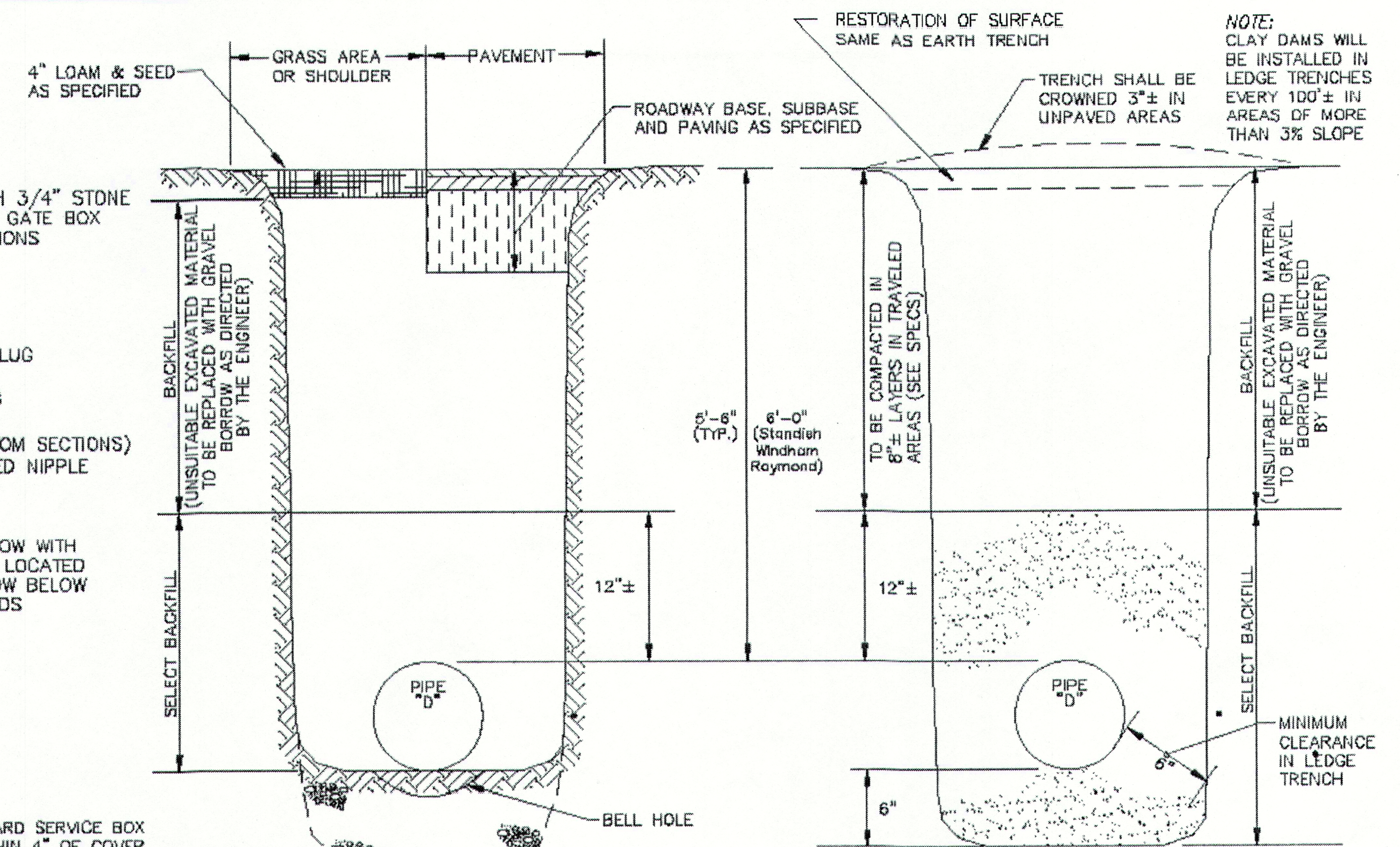
SIDE-ARM BLOW-OFF
2" MAIN



TYPICAL AIR VALVE (1")

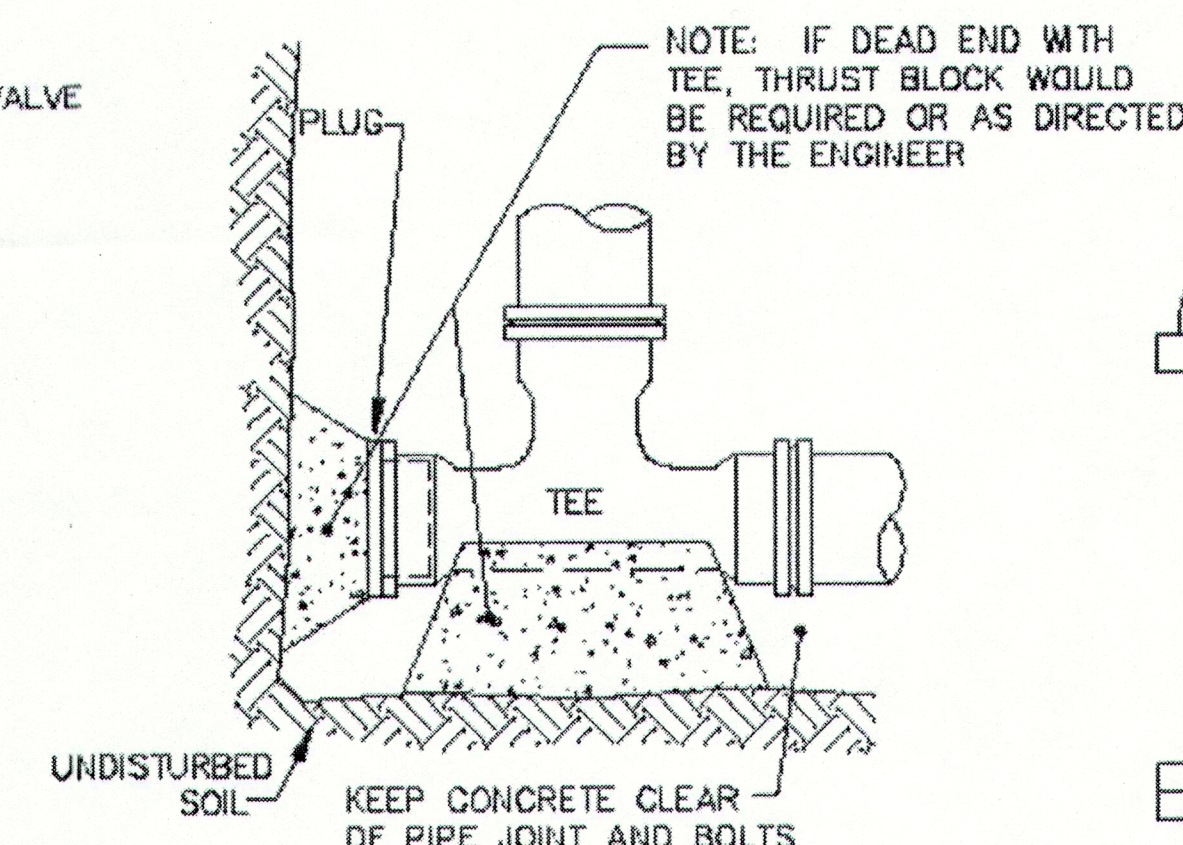


STANDARD BEND BLOCKING

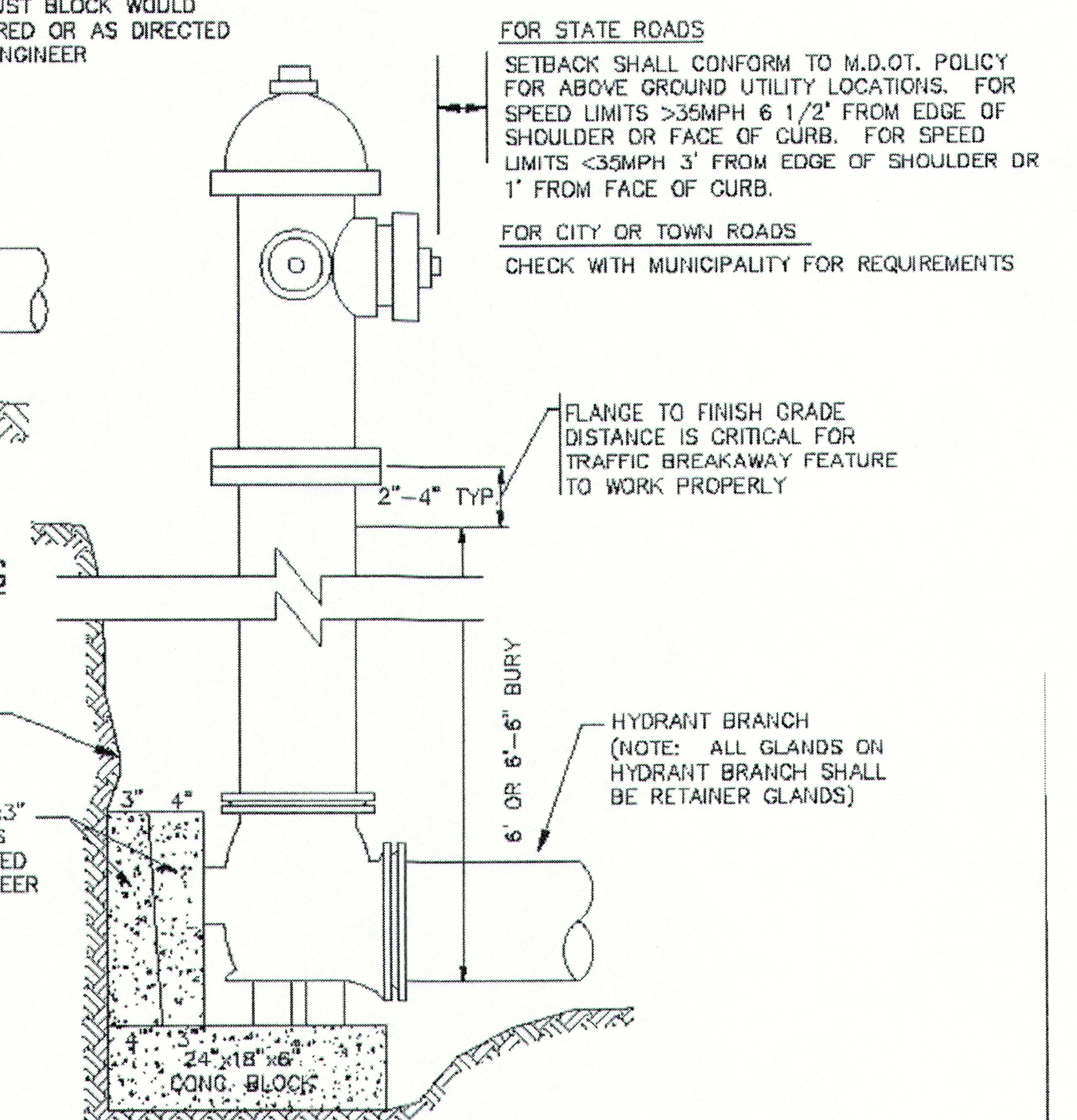


SECTION THRU EARTH TRENCH

SECTION THRU LEDGE TRENCH



STANDARD TEE BLOCKING

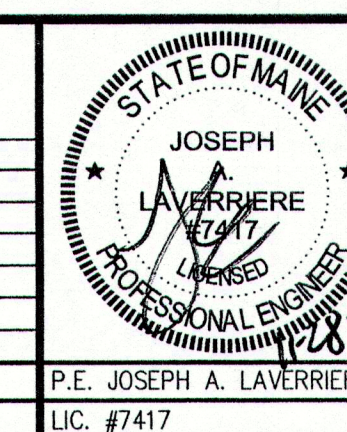


TYPICAL HYDRANT
INSTALLATION DETAIL

THE STANDARD DETAILS AS CONTAINED ON THIS SHEET WERE OBTAINED FROM THE PORTLAND WATER DISTRICT, WATER AND WASTEWATER MAIN EXTENSIONS / SPECIFICATIONS, SECTION VI - STANDARD DETAIL AND CONSTRUCTION, WITH LATEST REVISION DATE OF FEBRUARY 1, 2009.

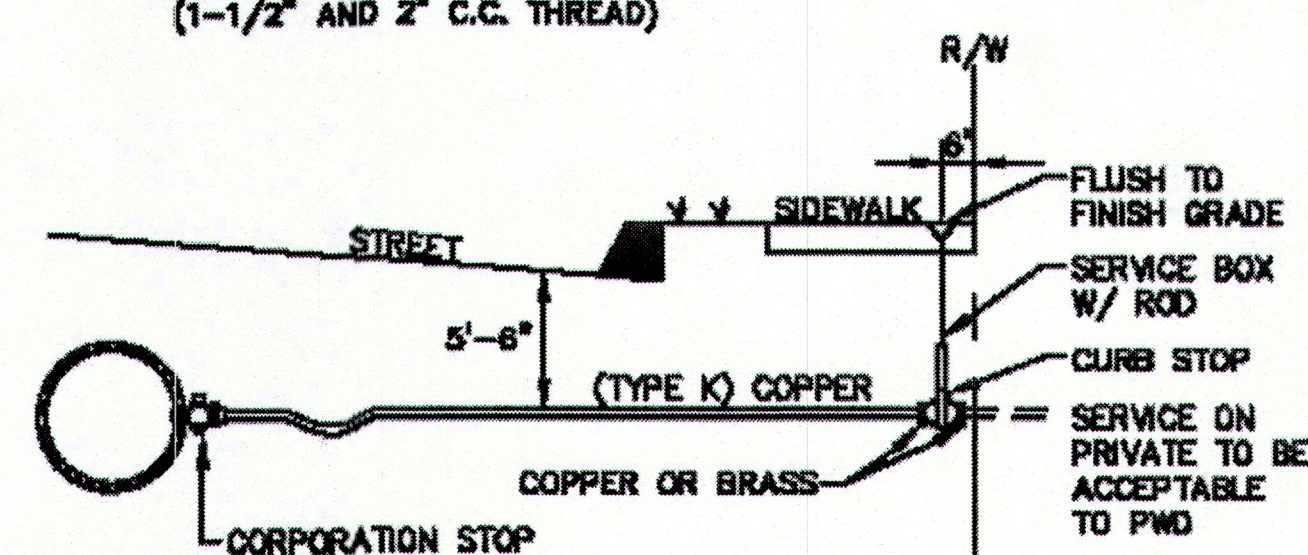
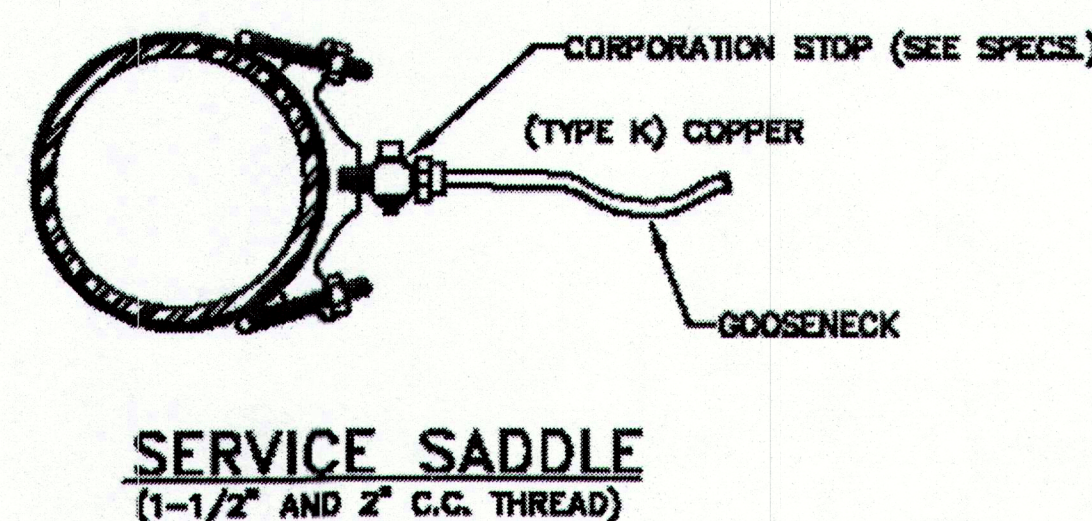
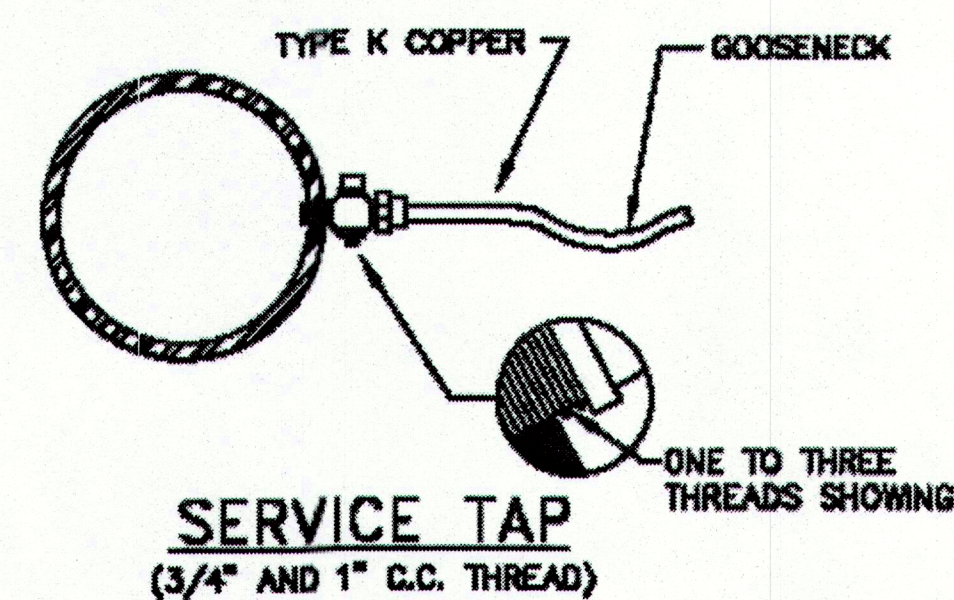
ALL WATER MAIN EXTENSION MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE PORTLAND WATER DISTRICT.

REV	DATE	DESCRIPTION	REVISIONS
7	11.28.11	PHASE 1 CONSTRUCTION SET	
6	09.13.11	RESUBMITTED TO TOWN	
5	08.01.11	RESUBMITTED TO TOWN	
4	07.22.11	REVISED PER TOWN COMMENTS AND RESUBMITTED	
3	06.30.11	RESUBMITTED TO TOWN	
2	06.21.11	REVISED PER INTERNAL REVIEW	
1	05.31.11	SUBMITTED TO TOWN AND DEP	
REV	DATE	DESCRIPTION	

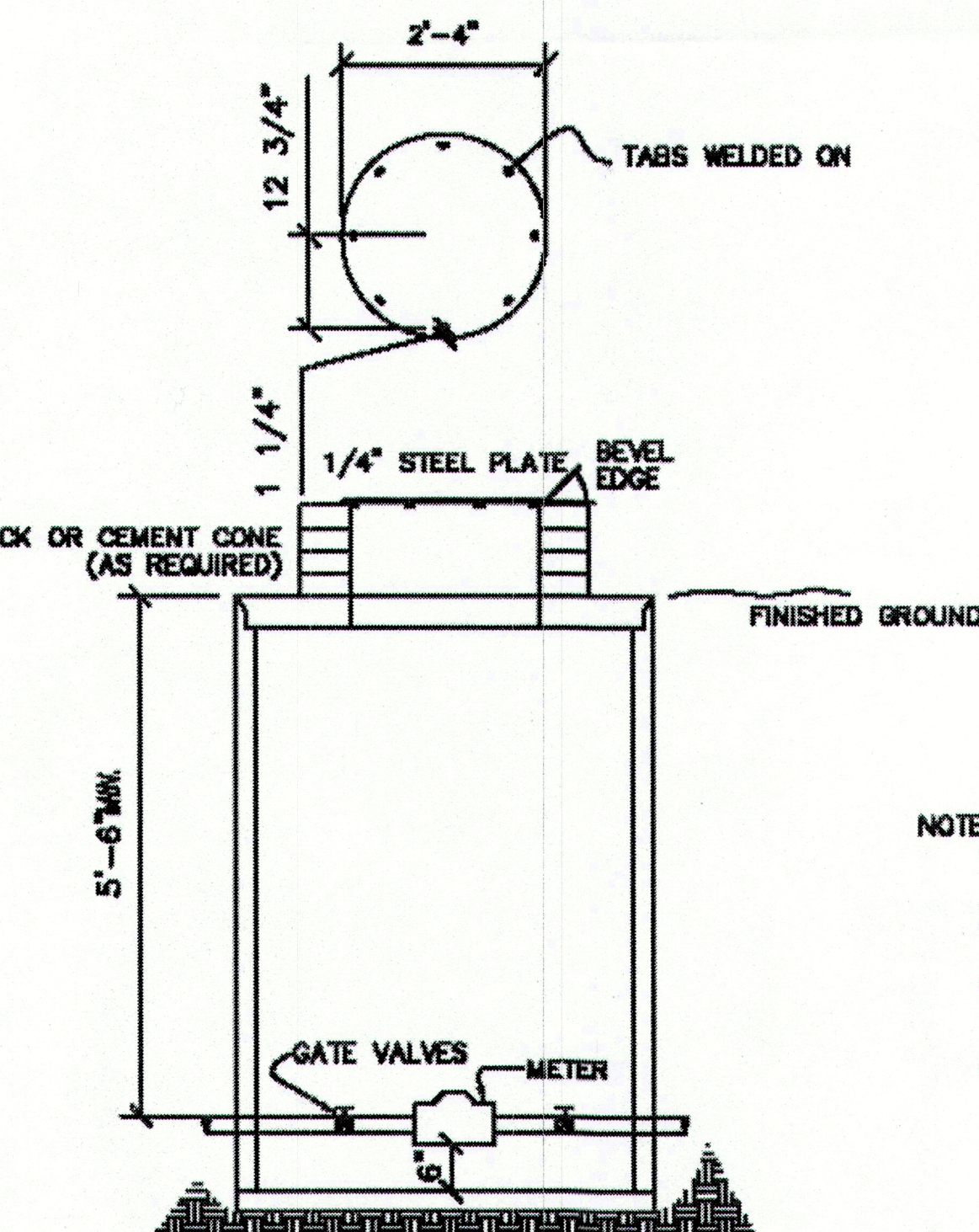
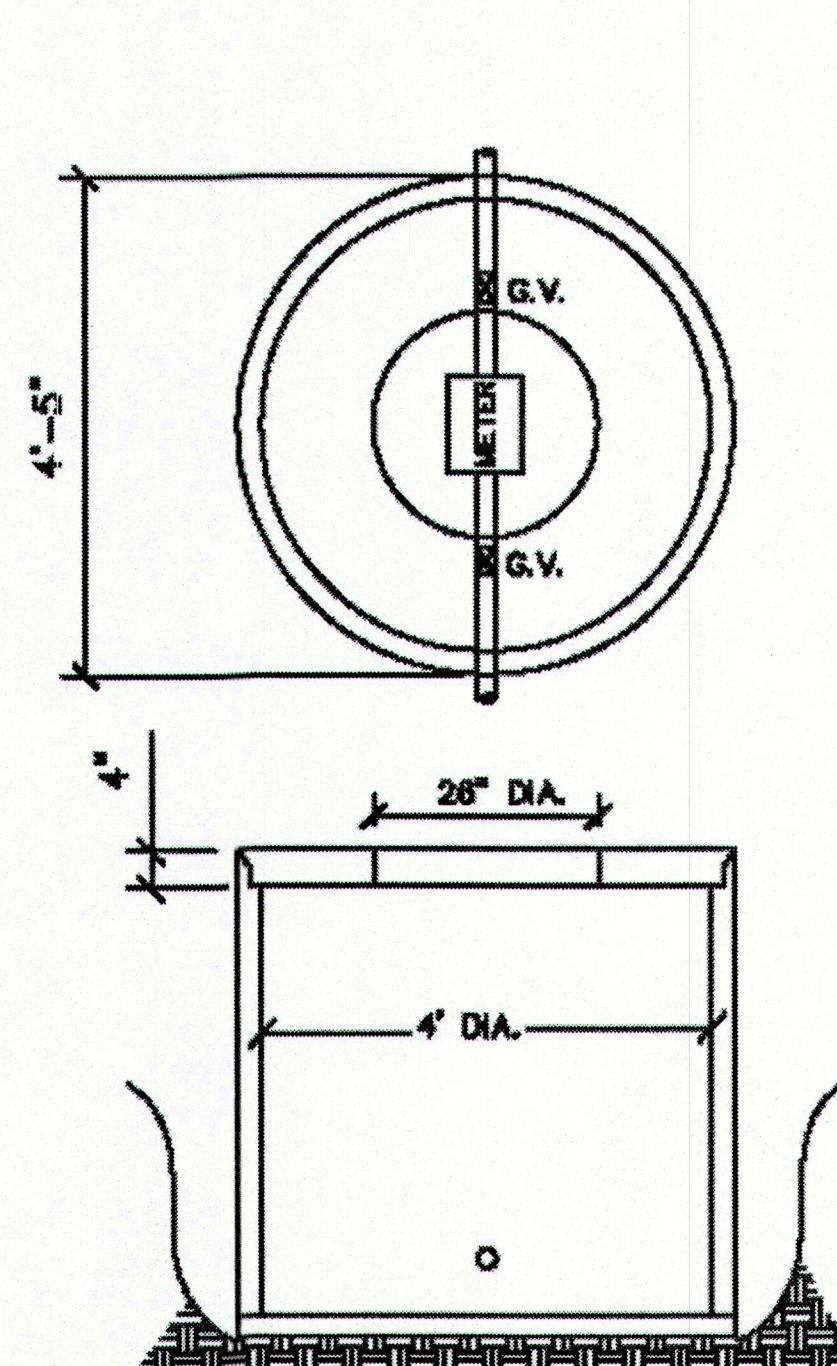


PROJECT	VILLAGE GREEN CUMBERLAND, MAINE
SHEET TITLE	STANDARD WATER DETAILS (1 OF 2)
CLIENT	VILLAGE GREEN CUMBERLAND, LLC
DESIGNED	JAL
CHECKED	JAL
FILE NAME	2998-DET
SHEET	C-10.4

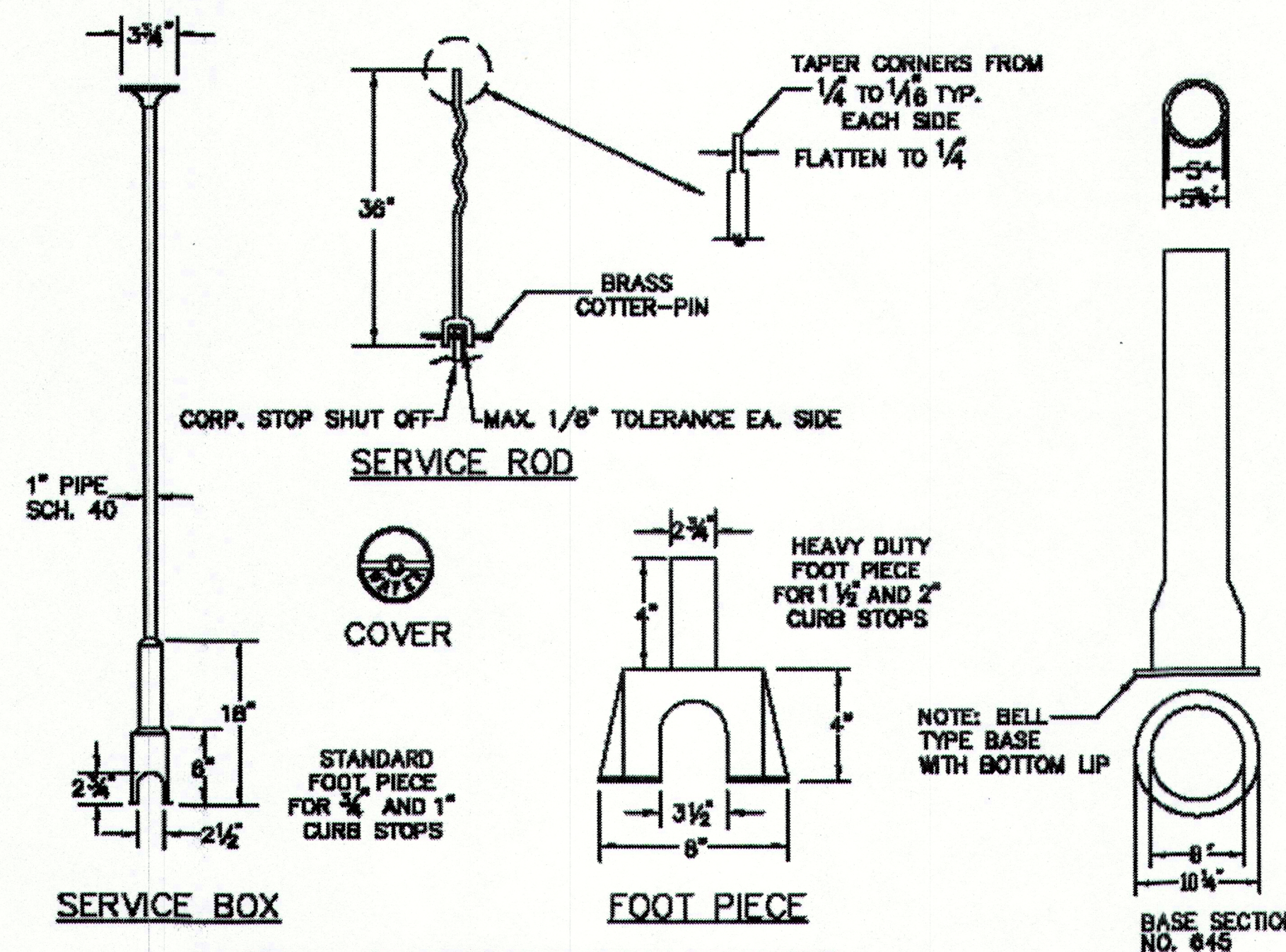
DeLUCA-HOFFMAN ASSOCIATES, INC.
778 MAIN STREET, SUITE 8
SOUTH PORTLAND, ME 04106
207.775.1121
WWW.DELUCAHOFFMAN.COM



TYPICAL SERVICE CONNECTION



TYPICAL METER PIT



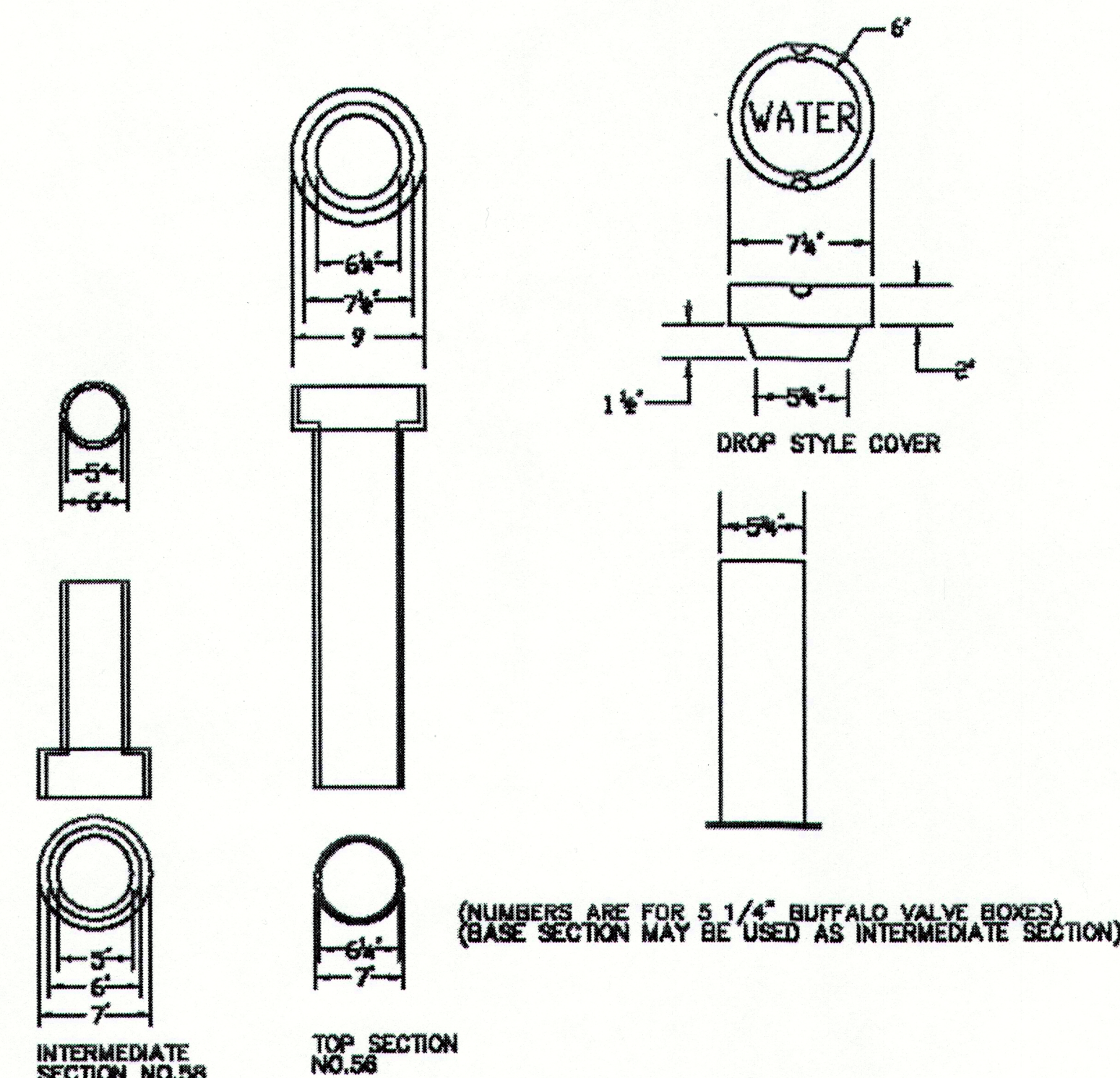
NOTE: ANY EXTENSION OF SERVICE BOX REQUIRES:
1) 1" FEMALE IRON PIPE COUPLING
2) 1" THREADED PIPE
(THIS IS TO BE A NON-WELDED, TWO PIECE ARRANGEMENT. SLIP ON ADAPTERS ARE NOT PERMISSIBLE.)

5/8" TO 2" METERS

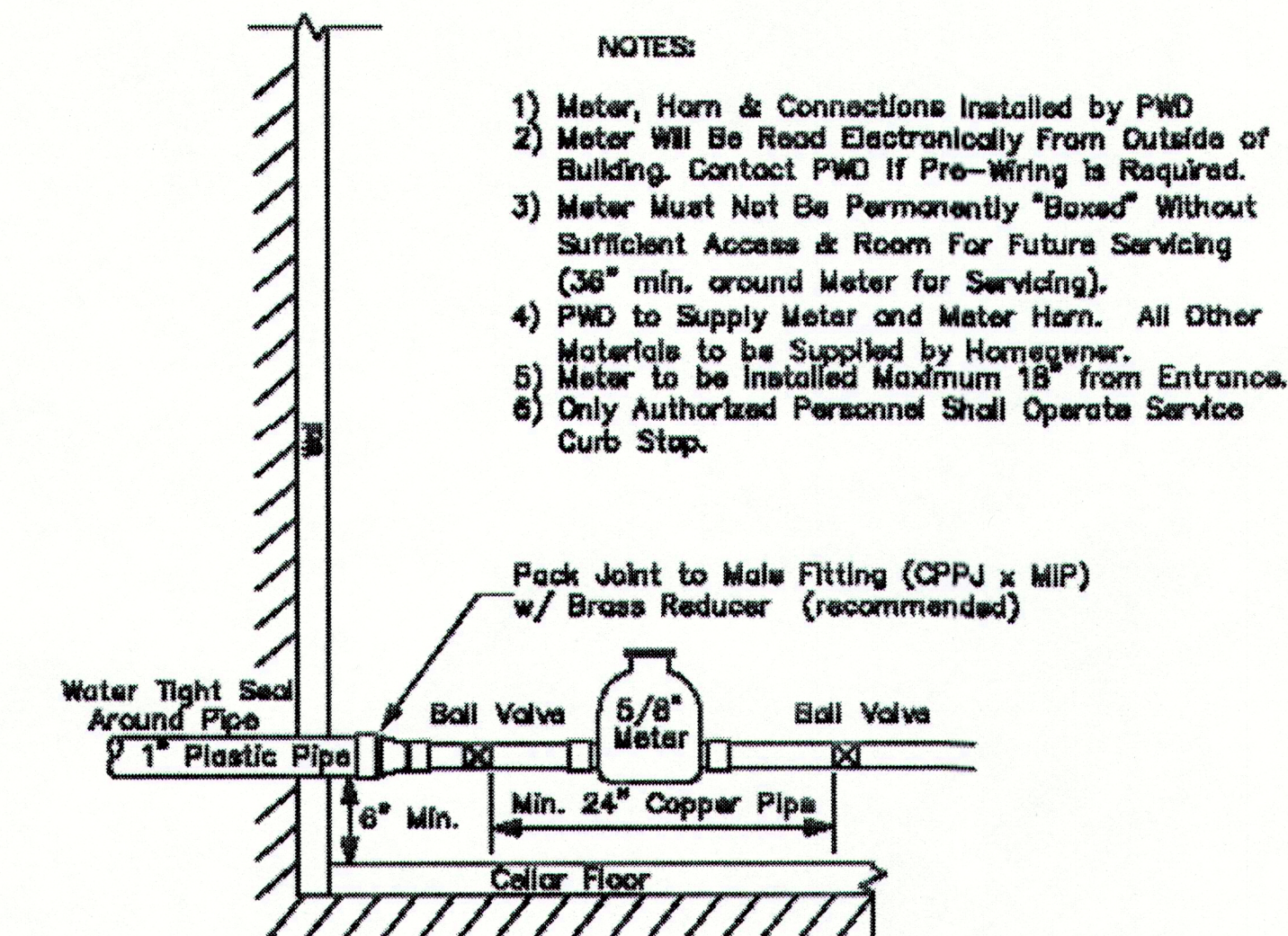
METER BOX
1) TO BE INSTALLED AND SUPPLIED BY OWNER
2) MINIMUM 4'-0" DIAMETER CONC. M.H. W/ CEMENT BASE
3) WATER METER TO HAVE 5'-6" OF COVER AND IS TO BE SUPPLIED BY P.W.D.
4) OWNER IS TO SUPPLY 2 VALVES INSIDE OF PIT (MINIMUM SEPARATION OF 2'-0")
5) COPPER PIPE REQUIRED THRU METER PIT

COVER PLATE
1) COVER MUST WEIGH LESS THAN 80 lbs.
2) MINIMUM SIZE OF COVER WILL BE 25" DIAMETER.
3) IF STEEL PLATE IS USED, TREAT WITH A COAT OF RUST INHIBITING PAINT.

NOTES
1) THIS PIT IS TO BE PLACED ON PRIVATE PROPERTY NEAR THE STREET LINE.
2) THIS TYPICAL PIT WAS NOT DESIGNED FOR ANY TRAFFIC LOAD
3) THE PIT CAN BE ORDERED THRU OTHERS WITH SPECIAL DETAILS SUCH AS LARGER M.H. COVERS, ETC.
4) THIS PIT WILL HOUSE UP TO TWO 5/8", 3/4", OR 1" METERS



VALVE BOX & COVER



TYP. HORIZONTAL METER SET

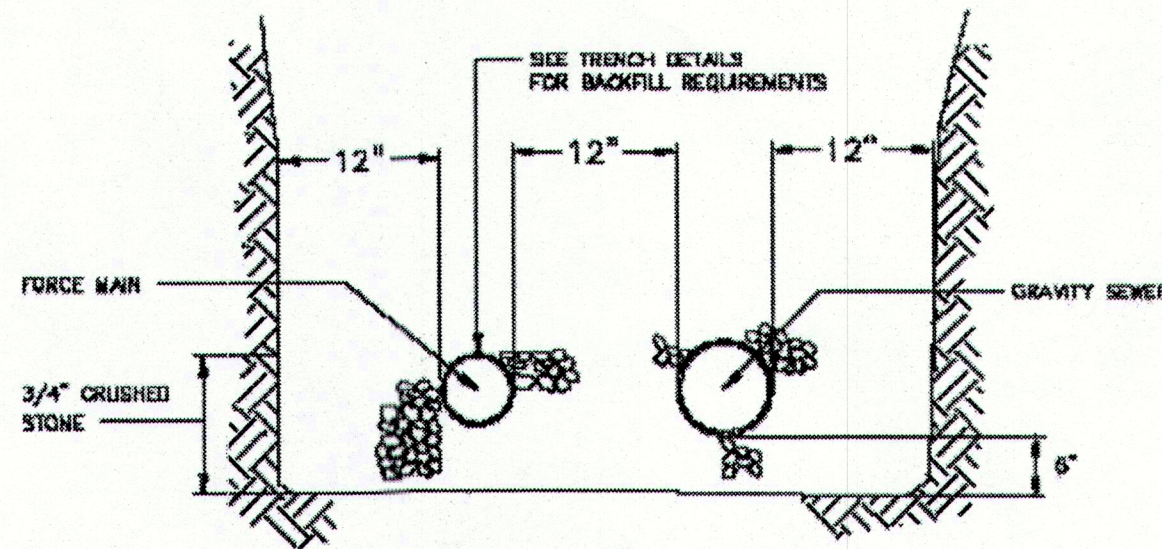
THE STANDARD DETAILS AS CONTAINED ON THIS SHEET WERE OBTAINED FROM THE PORTLAND WATER DISTRICT, WATER AND WASTEWATER MAIN EXTENSIONS / SPECIFICATIONS, SECTION VI - STANDARD DETAIL AND CONSTRUCTION, WITH LATEST REVISION DATE OF FEBRUARY 1, 2009.

ALL WATER MAIN EXTENSION MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE PORTLAND WATER DISTRICT.

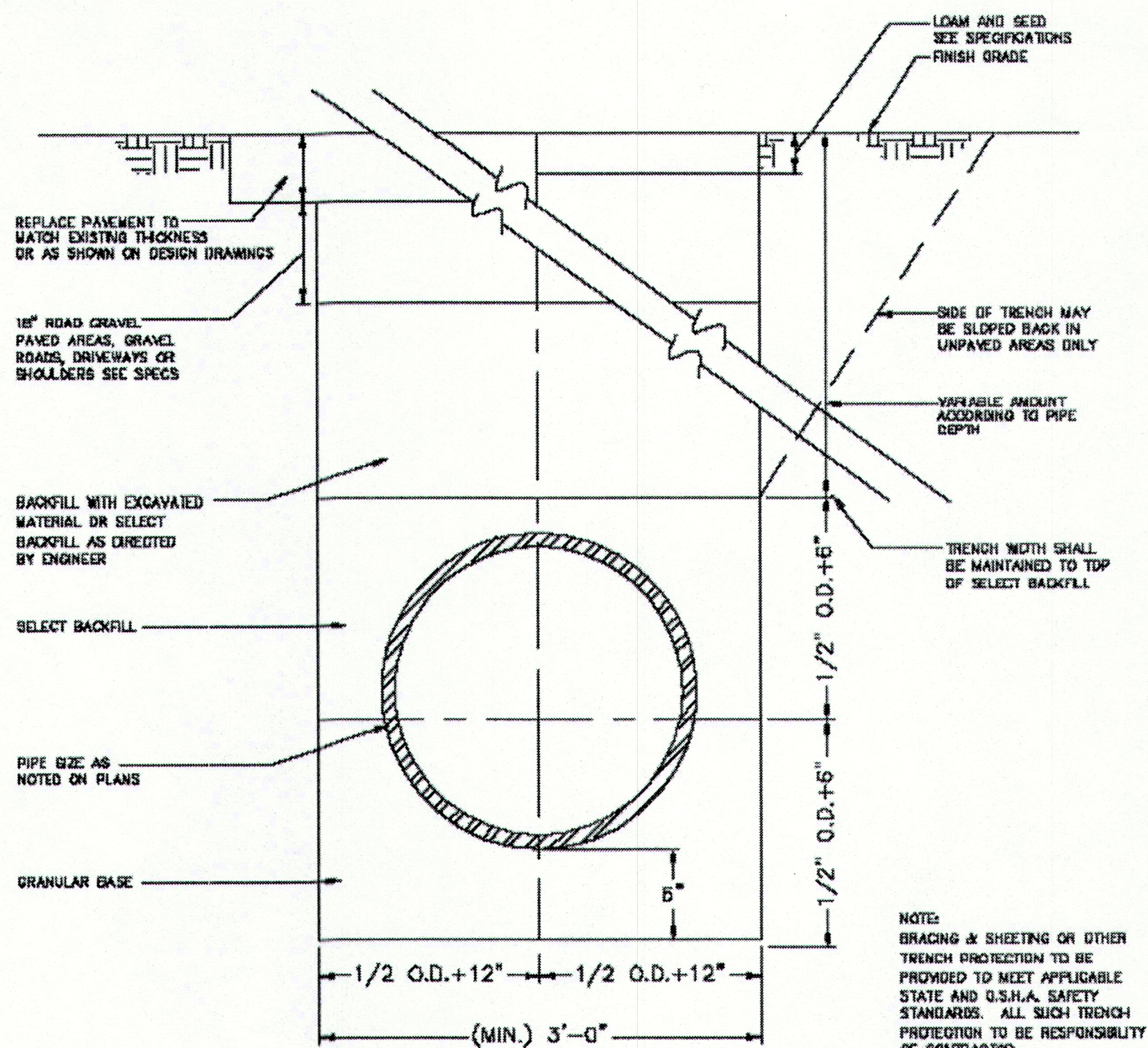
REV	DATE	DESCRIPTION
7	11.28.11	PHASE 1 CONSTRUCTION SET
6	09.13.11	RESUBMITTED TO TOWN
5	08.01.11	RESUBMITTED TO TOWN
4	07.22.11	REVISED PER TOWN COMMENTS AND RESUBMITTED
3	06.30.11	RESUBMITTED TO TOWN
2	06.21.11	REVISED PER INTERNAL REVIEW
1	05.31.11	SUBMITTED TO TOWN AND DEP
REVISIONS		

PROJECT	VILLAGE GREEN CUMBERLAND, MAINE
SHEET TITLE	STANDARD WATER DETAILS (2 OF 2)
CLIENT	VILLAGE GREEN CUMBERLAND, LLC

DRAWN:	CDD	DATE:	MAY 2011
DESIGNED:	JAL	SCALE:	N.T.S.
CHECKED:	JAL	JOB NO.	2998
FILE NAME:	2998-DET		
SHEET	C-10.5		

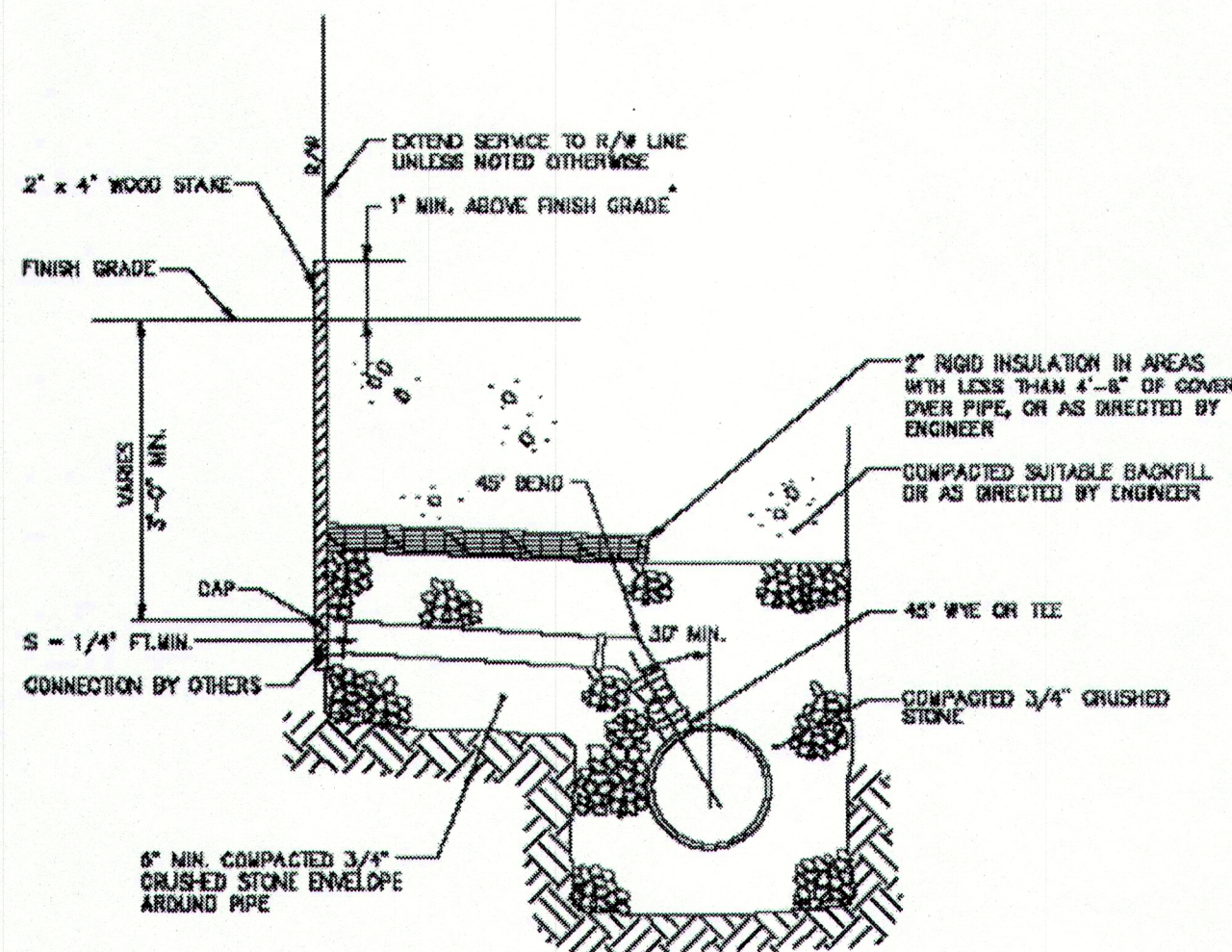


TWO PIPE TRENCH DETAIL



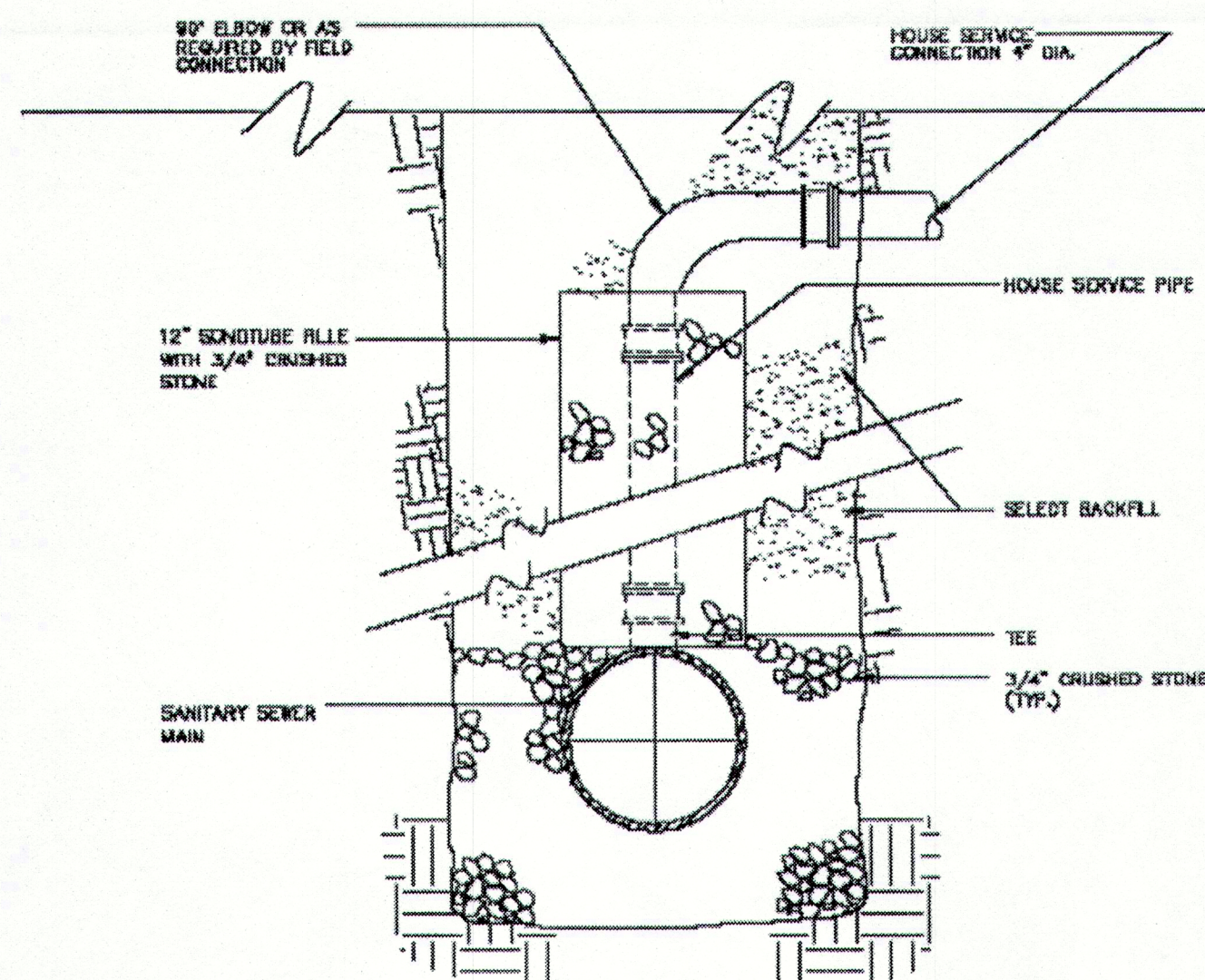
TRENCH SECTION

THE STANDARD DETAILS AS CONTAINED ON THIS SHEET WERE OBTAINED FROM THE PORTLAND WATER DISTRICT, WATER AND WASTEWATER MAIN EXTENSIONS / SPECIFICATIONS, SECTION VI - STANDARD DETAIL AND CONSTRUCTION, WITH LATEST REVISION DATE OF FEBRUARY 1, 2009.

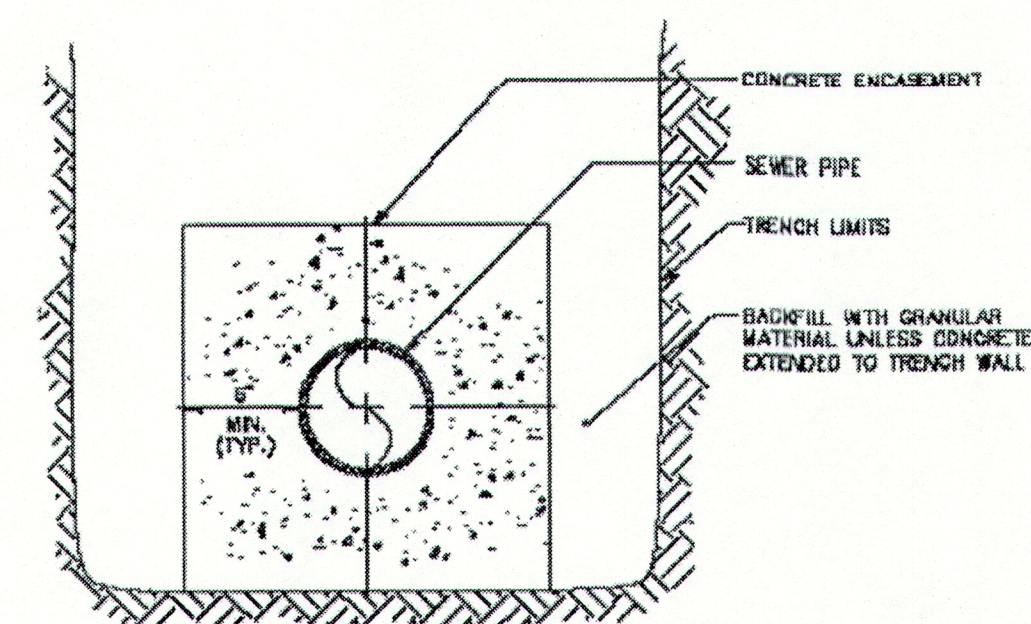


NOTES:
 * PIPE DIAMETERS MAY VARY. SEE TYPICAL PIPE TRENCH DETAIL THIS SHEET.
 * WHERE 30° MINIMUM ANGLE BETWEEN SEWER CONNECTION AT THE SEWER MAIN AND THE VERTICAL CANNOT BE MAINTAINED, PROVIDE A PRECAST SEWER CHIMNEY.
 * IF STAKE IS CUT OFF FLUSH OR SLIGHTLY BELOW GRADE, PROVIDE MIN. OF TWO 16G GALV. SPICED DRIVEN INTO TOP OF 2" x 4" TO PROVIDE METAL DETECTABILITY.

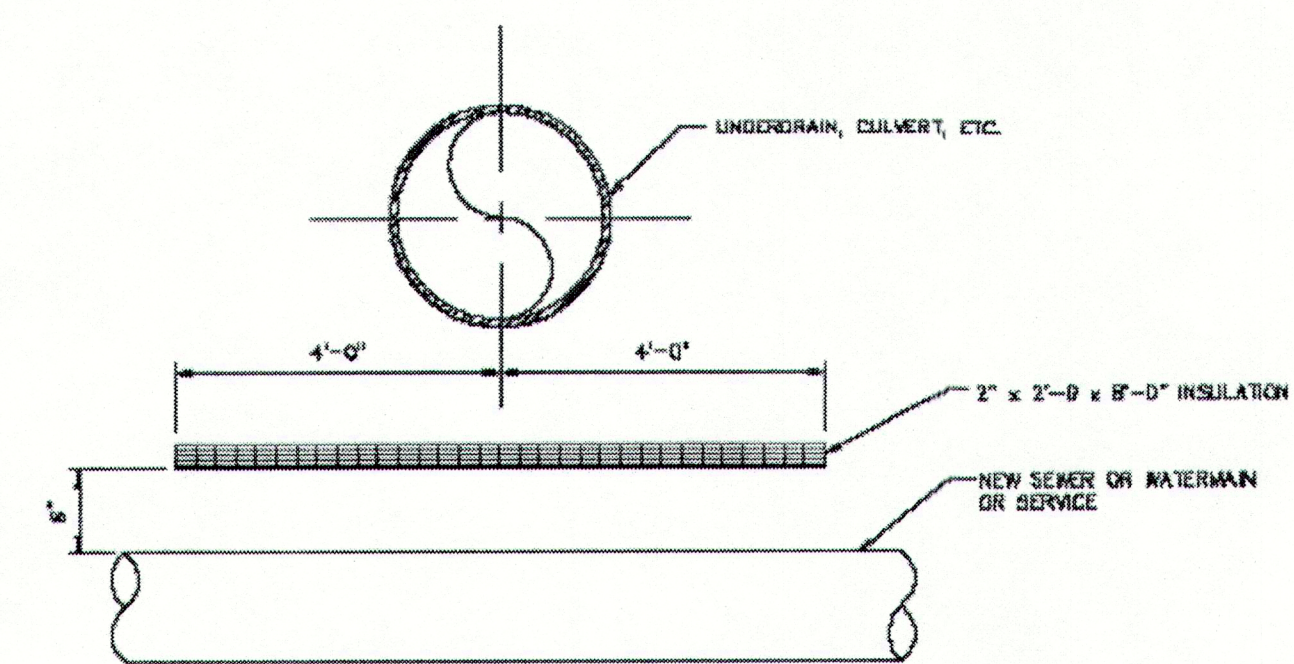
HORIZONTAL SEWER CONNECTION



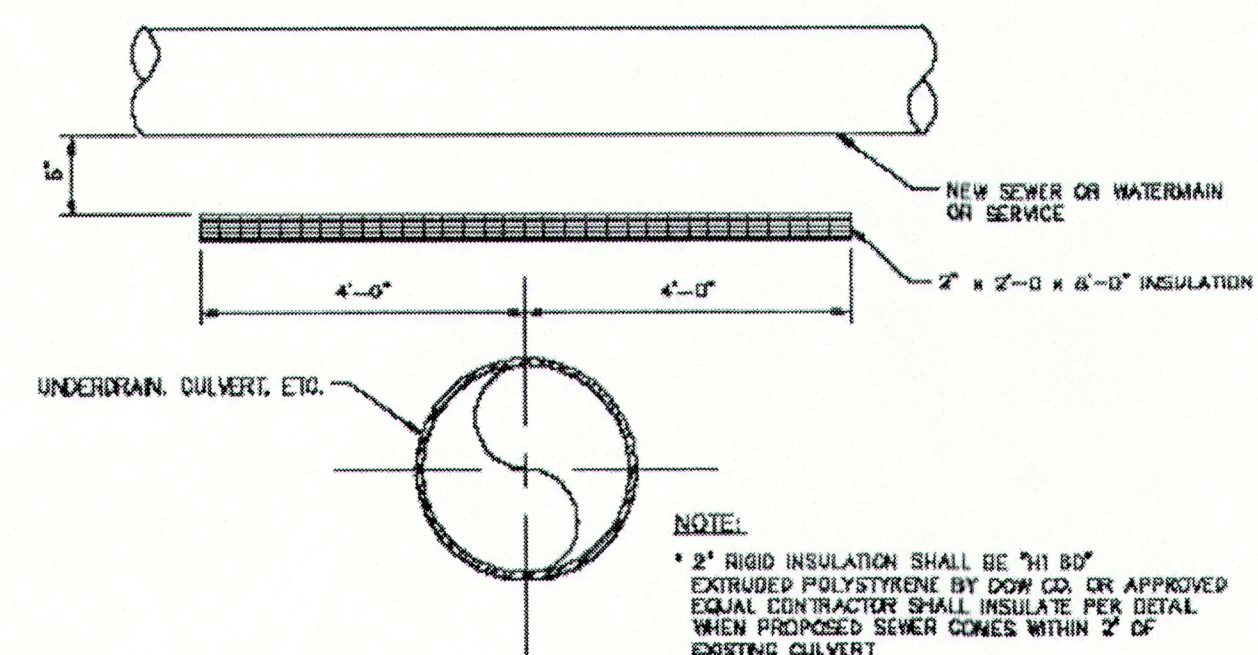
CHIMNEY DETAIL



CONCRETE ENCASEMENT FOR SEWER MAINS



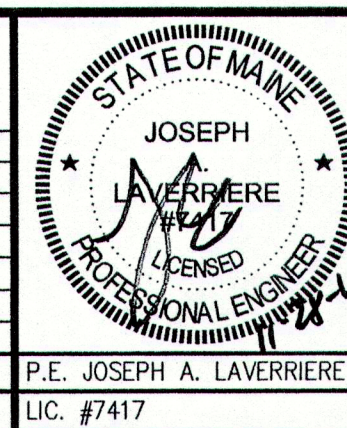
INSULATION DETAIL "A"



INSULATION DETAIL "B"

ALL SEWER MAIN EXTENSION MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE PORTLAND WATER DISTRICT.

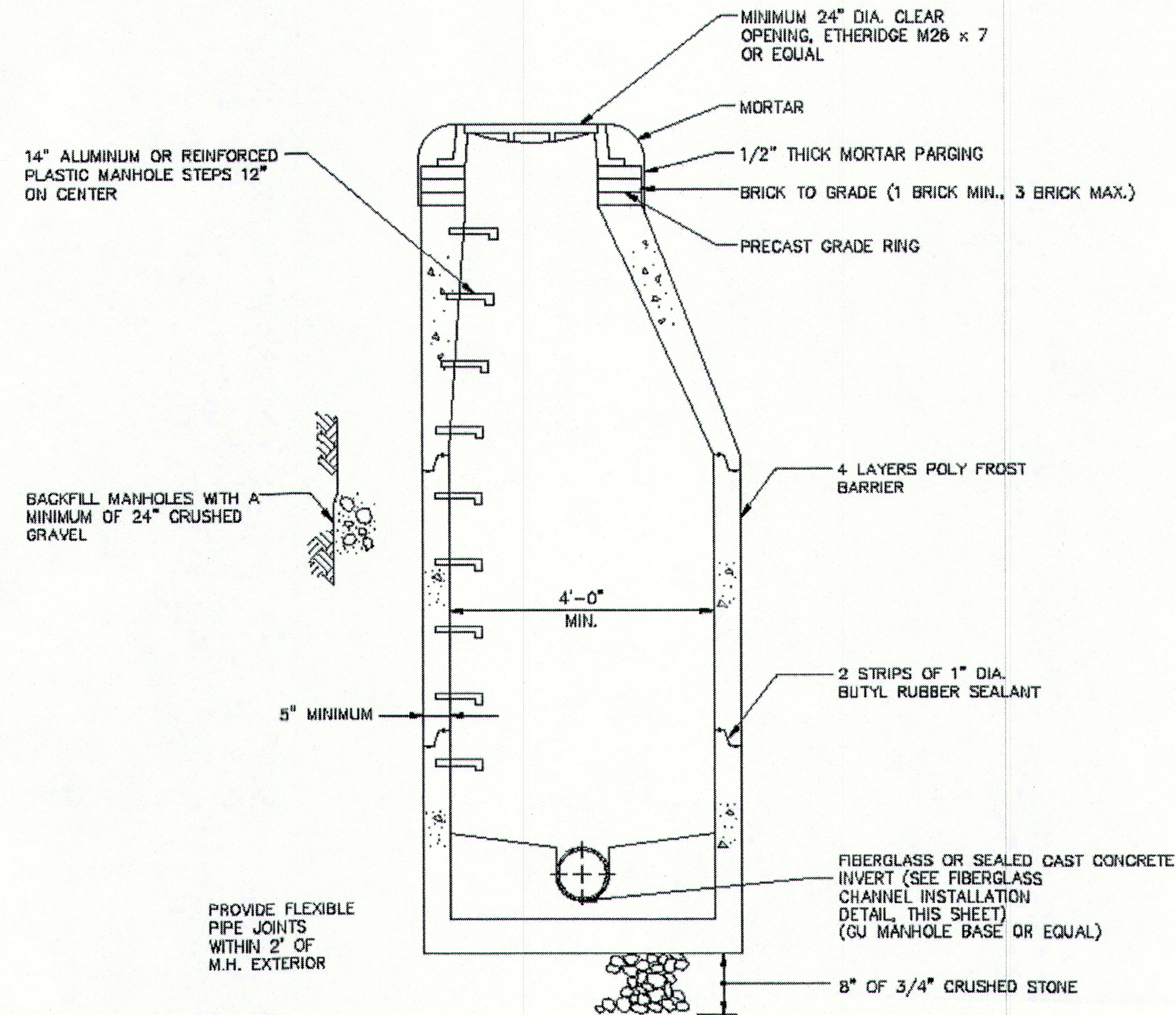
REV	DATE	DESCRIPTION
7	11.28.11	PHASE 1 CONSTRUCTION SET
6	09.13.11	RESUBMITTED TO TOWN
5	08.01.11	RESUBMITTED TO TOWN
4	07.22.11	REVISED PER TOWN COMMENTS AND RESUBMITTED
3	06.30.11	RESUBMITTED TO TOWN
2	06.21.11	REVISED PER INTERNAL REVIEW
1	05.31.11	SUBMITTED TO TOWN AND DEP
REV	DATE	DESCRIPTION
		REVISIONS



PROJECT	VILLAGE GREEN CUMBERLAND, MAINE
SHEET TITLE	SEWER TRENCH DETAILS
CLIENT	VILLAGE GREEN CUMBERLAND, LLC

DRAWN:	CDD	DATE:	MAY 2011
DESIGNED:	JAL	SCALE:	N.T.S.
CHECKED:	JAL	JOB NO.	2998
FILE NAME:	2998-DET		
SHEET	C-10.6		

DeLUCA-HOFFMAN ASSOCIATES, INC.
 778 MAIN STREET, SUITE 8
 SOUTH PORTLAND, ME 04106
 207.775.1121
 WWW.DELUCAHOFFMAN.COM

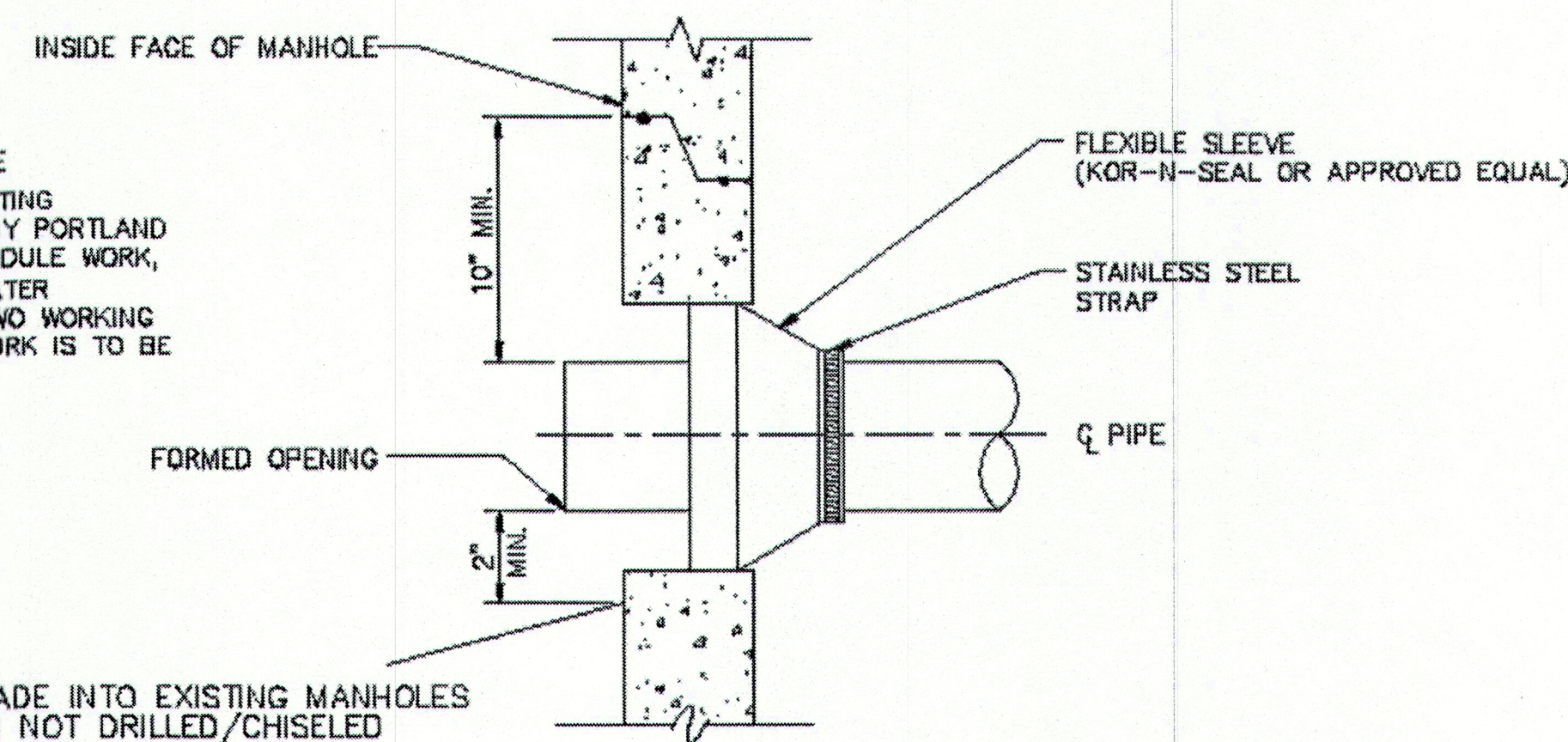


PRECAST MANHOLE

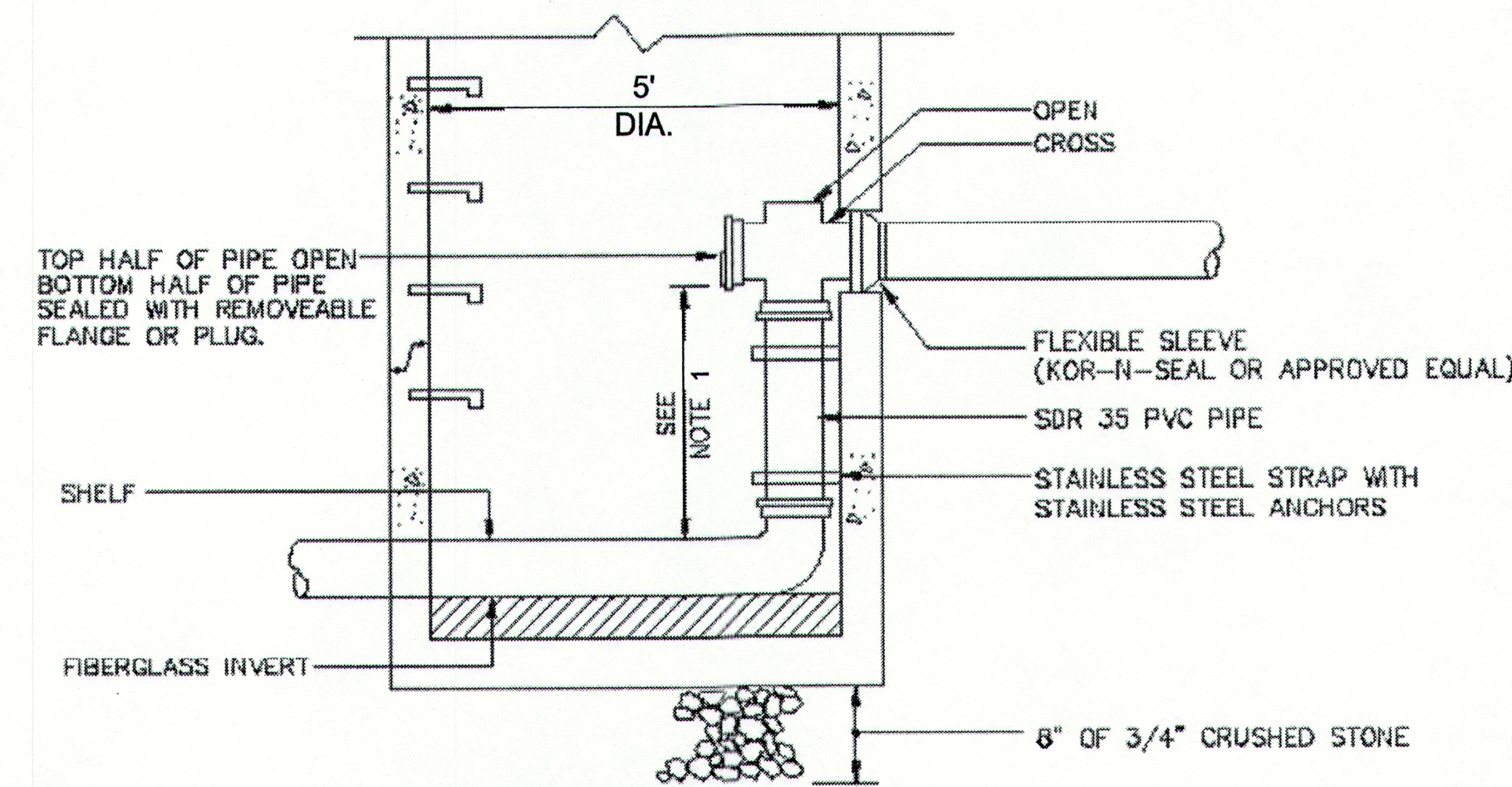
NOTE:

1. CONNECTION TO EXISTING MANHOLE
ALL NEW PENETRATIONS INTO EXISTING MANHOLES SHALL BE INSPECTED BY PORTLAND WATER DISTRICT CREWS. TO SCHEDULE WORK, CONTACT THE DISTRICT'S WASTEWATER OPERATIONS DIVISION AT LEAST TWO WORKING DAYS PRIOR TO THE DATE THE WORK IS TO BE PERFORMED.

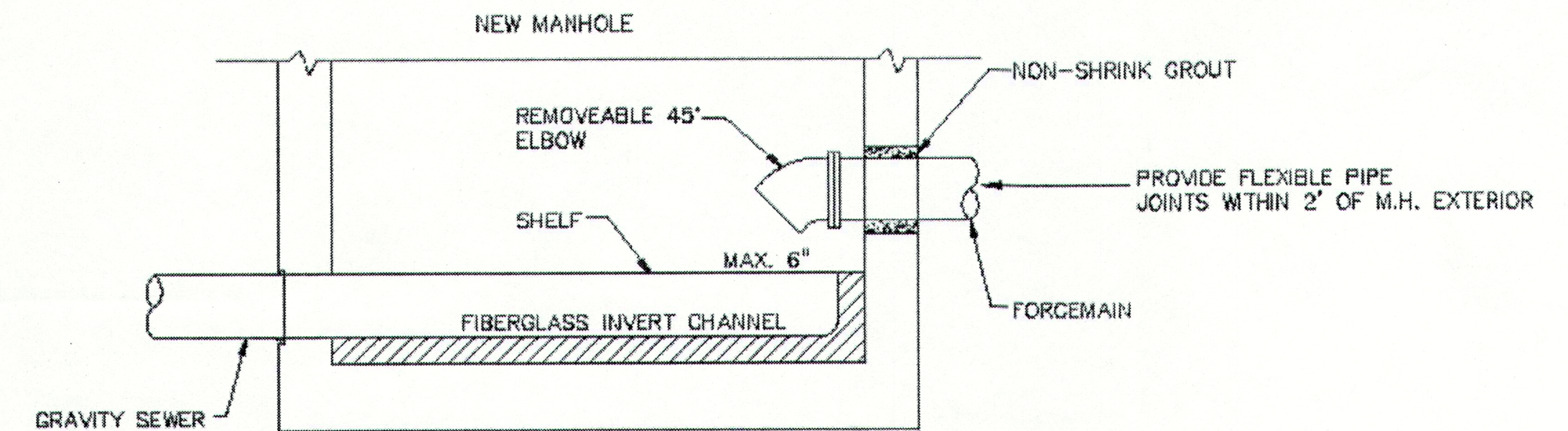
NOTE: CONNECTIONS MADE INTO EXISTING MANHOLES ARE TO BE CORED AND NOT DRILLED/CHISELED



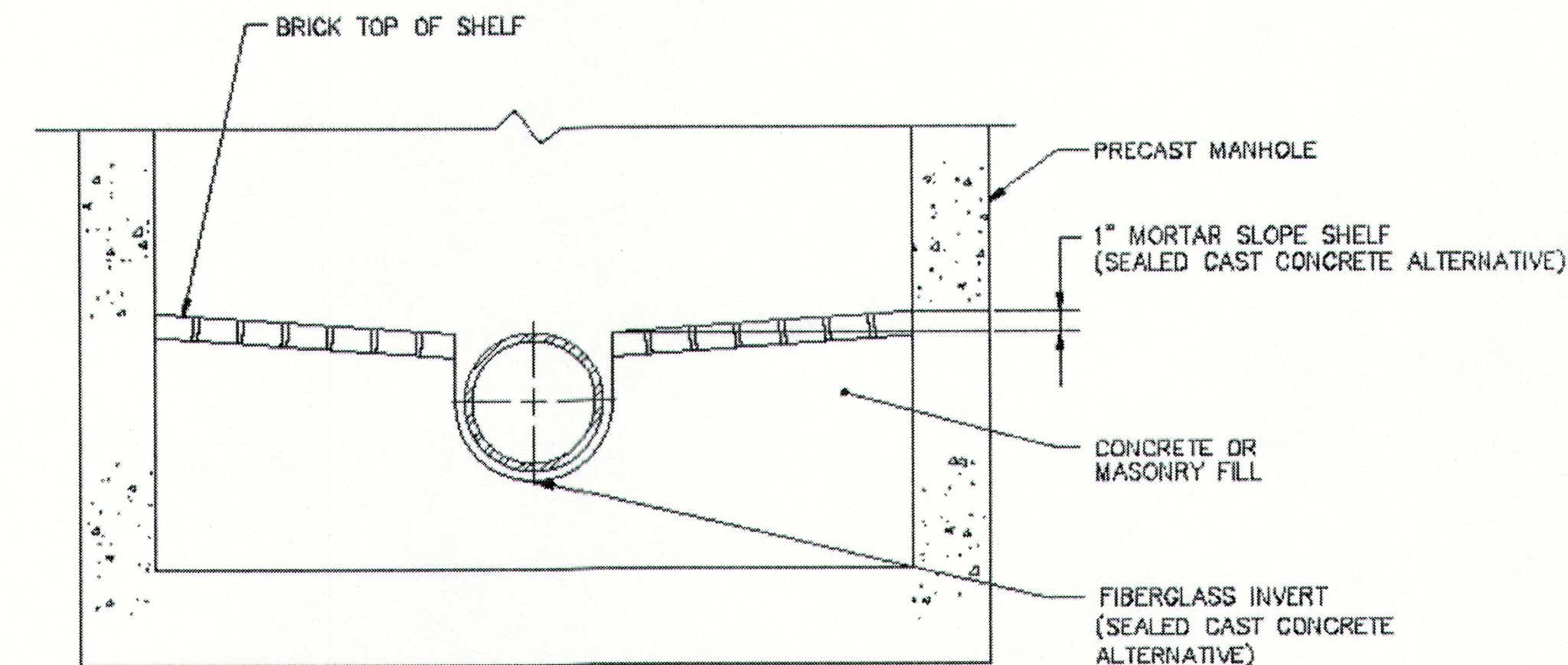
NEW PIPE TO EXISTING MANHOLE
CONNECTION DETAIL - 4" TO 24"



PRECAST DROP MANHOLE



FORCEMAIN TERMINUS



FIBERGLASS CHANNEL INSTALLATION

NOTES:

1. MINIMUM HEIGHT OF DROP IS 2'-0"
2. SEE PRECAST MANHOLE SECTION FOR TYPICAL
3. MANHOLE INFORMATION, INCLUDING NOTES.
4. PROVIDE DROP PIPE FOR ALL INVERT DIFFERENTIALS GREATER THAN TWO (2) FEET.
5. CUT OFF TOP 1/3 OF PIPE PLUG.
6. INSTALL PVC TEE AND PLUG FACING UP AT INSIDE DROP INSTALLATION AT EXISTING MANHOLE LOCATED ON WEST STREET.

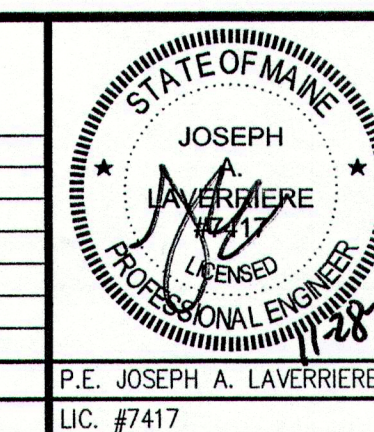
SPECIAL NOTE:

THE MINIMUM DIAMETER OF THE DROP MANHOLE DETAIL AS CONTAINED ON THIS DETAIL HAS BEEN MODIFIED PER THE REQUEST OF THE PORTLAND WATER DISTRICT.

THE STANDARD DETAILS AS CONTAINED ON THIS SHEET WERE OBTAINED FROM THE PORTLAND WATER DISTRICT, WATER AND WASTEWATER MAIN EXTENSIONS / SPECIFICATIONS, SECTION VI - STANDARD DETAIL AND CONSTRUCTION, WITH LATEST REVISION DATE OF FEBRUARY 1, 2009.

ALL SEWER MAIN EXTENSION MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE PORTLAND WATER DISTRICT.

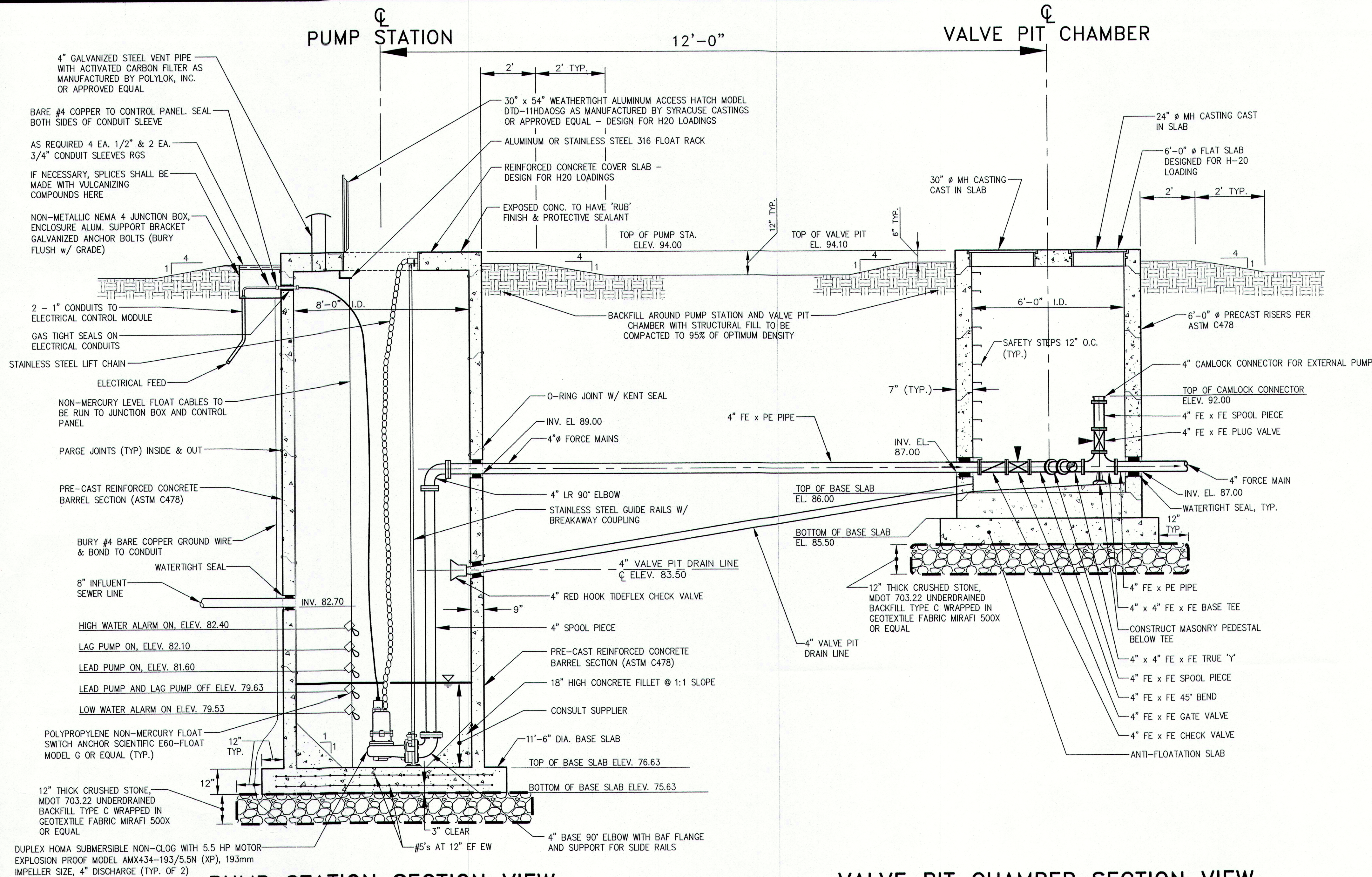
REV	DATE	DESCRIPTION
7	11.28.11	PHASE 1 CONSTRUCTION SET
6	09.13.11	RESUBMITTED TO TOWN
5	08.01.11	RESUBMITTED TO TOWN
4	07.22.11	REVISED PER TOWN COMMENTS AND RESUBMITTED
3	06.30.11	RESUBMITTED TO TOWN
2	06.21.11	REVISED PER INTERNAL REVIEW
1	05.31.11	SUBMITTED TO TOWN AND DEP



PROJECT	VILLAGE GREEN CUMBERLAND, MAINE
SHEET TITLE	SEWER MANHOLE DETAILS
CLIENT	VILLAGE GREEN CUMBERLAND, LLC

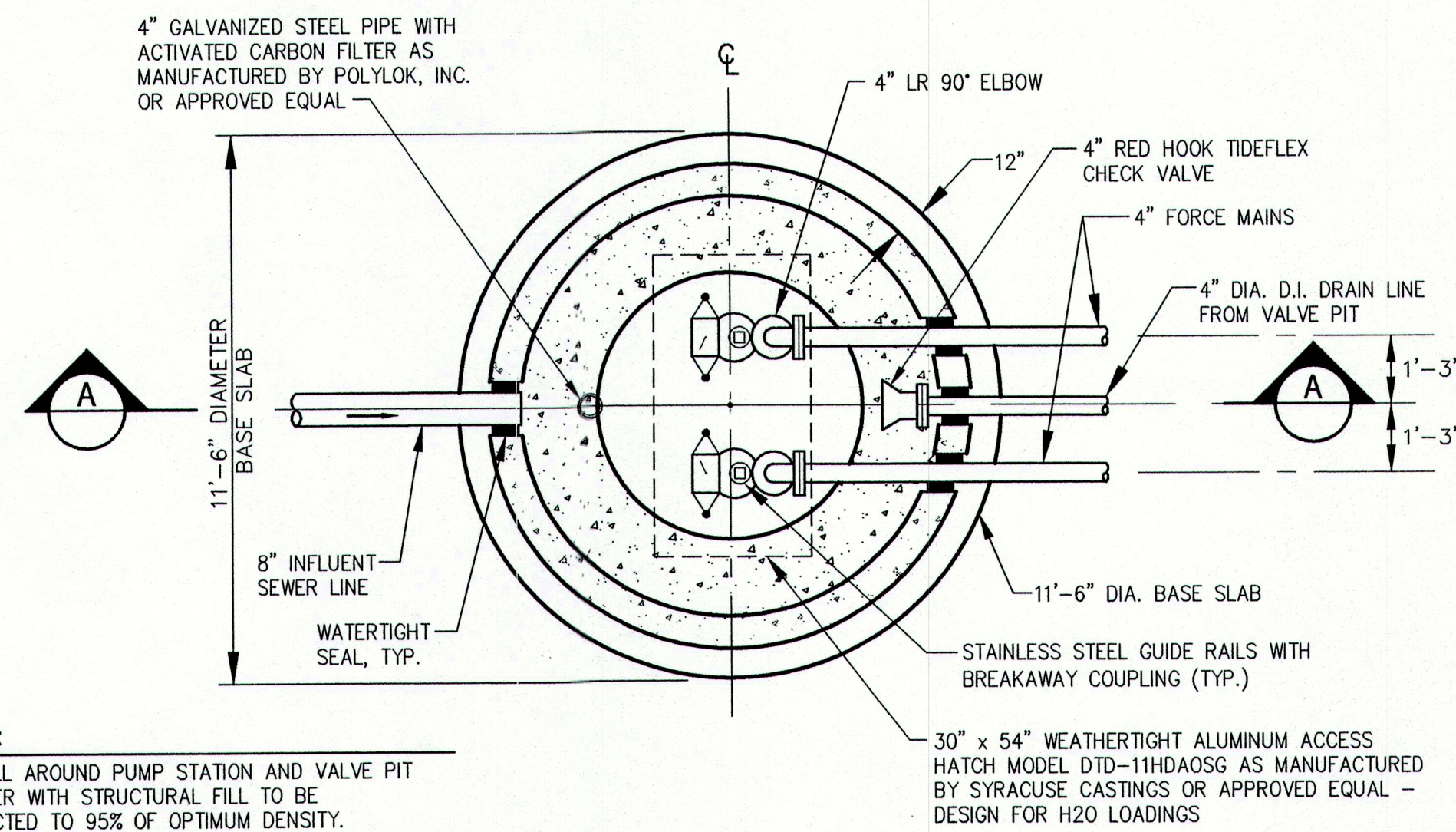
DESIGNED:	JAL	SCALE:	N.T.S.
CHECKED:	JAL	JOB NO.	2998
FILE NAME:	2998-DET		
SHEET	C-10.7		

R:\2998 Bateman Cumberland\CADD\CONSTRUCTION SET\DWG\2998-DET.dwg, C-10.8 SEWER PS DETAILS, 11/30/2011 10:52:55 AM, cdlb

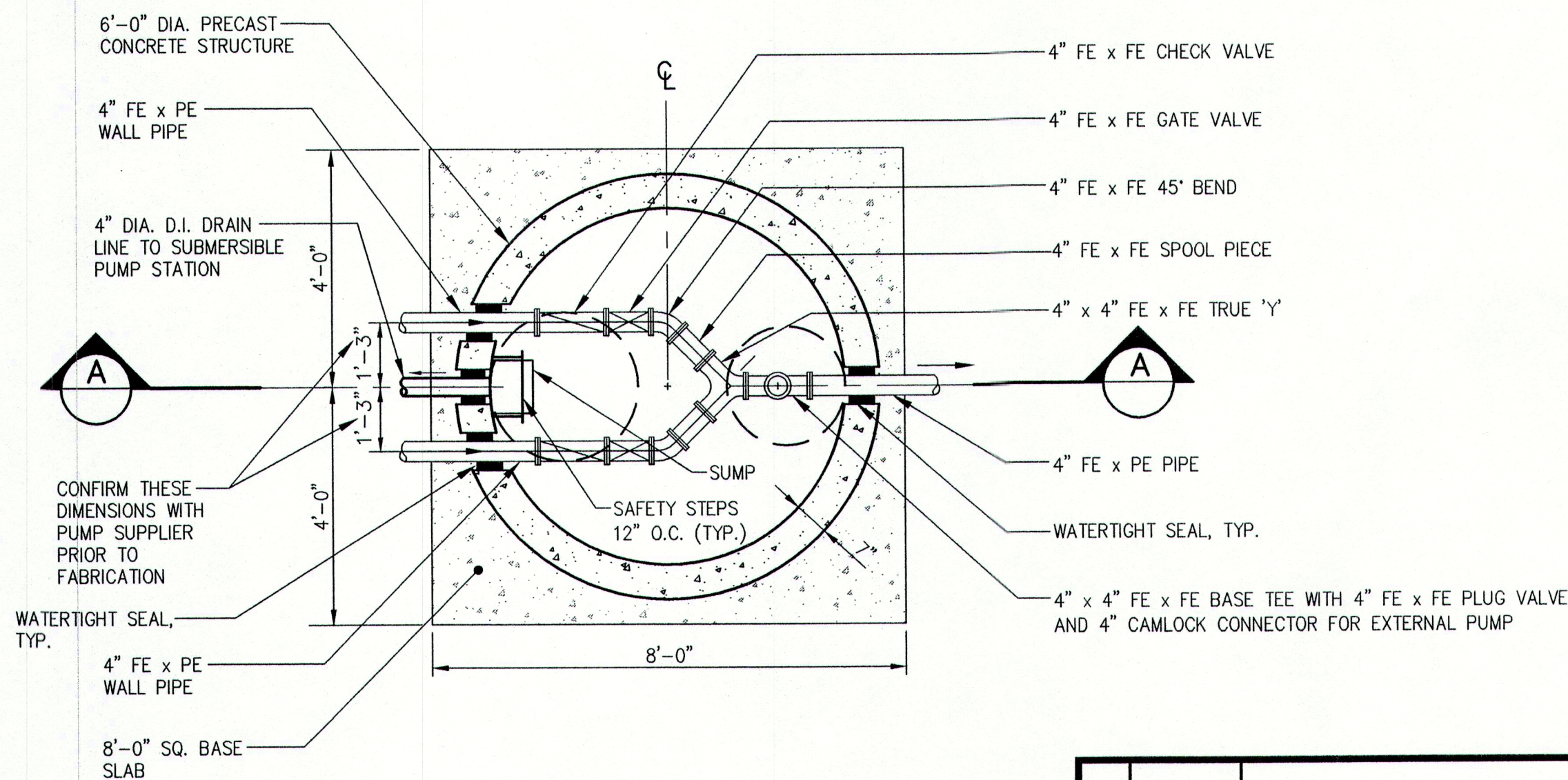


PUMP STATION SECTION VIEW

VALVE PIT CHAMBER SECTION VIEW



PUMP STATION PLAN VIEW

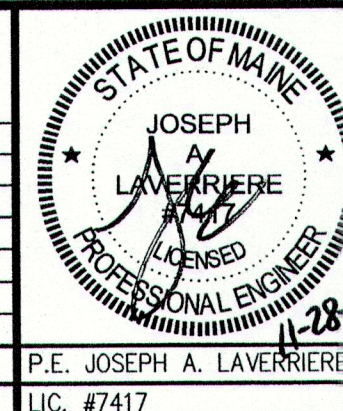


VALVE PIT CHAMBER PLAN VIEW

STRUCTURAL FILL MATERIAL SHALL MEET THE FOLLOWING GRADATION REQUIREMENTS	
SIEVE SIZE	PERCENT PASSING
4 - INCH	100
3 - INCH	90 TO 100
3/4 - INCH	25 TO 90
NO. 40	0 TO 30
NO. 200	0 TO 5

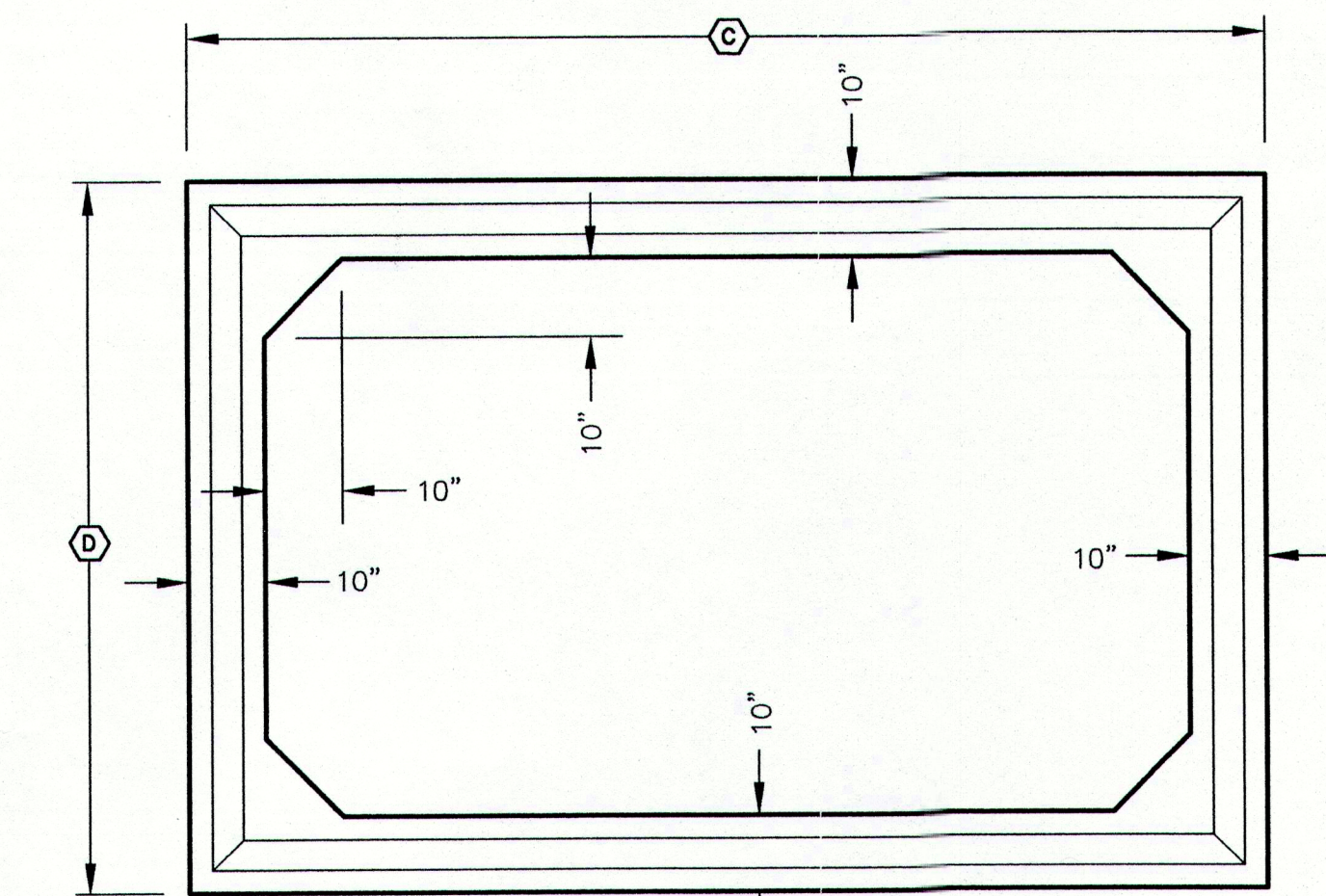
NOTE:
BACKFILL AROUND PUMP STATION AND VALVE PIT CHAMBER WITH STRUCTURAL FILL TO BE COMPACTED TO 95% OF OPTIMUM DENSITY.

REV	DATE	DESCRIPTION
7	11.28.11	PHASE 1 CONSTRUCTION SET
6	09.13.11	RESUBMITTED TO TOWN
5	08.01.11	RESUBMITTED TO TOWN
4	07.22.11	REVISED PER TOWN COMMENTS AND RESUBMITTED
3	06.30.11	RESUBMITTED TO TOWN
2	06.21.11	REVISED PER INTERNAL REVIEW
1	05.31.11	SUBMITTED TO TOWN AND DEP
REVISIONS		

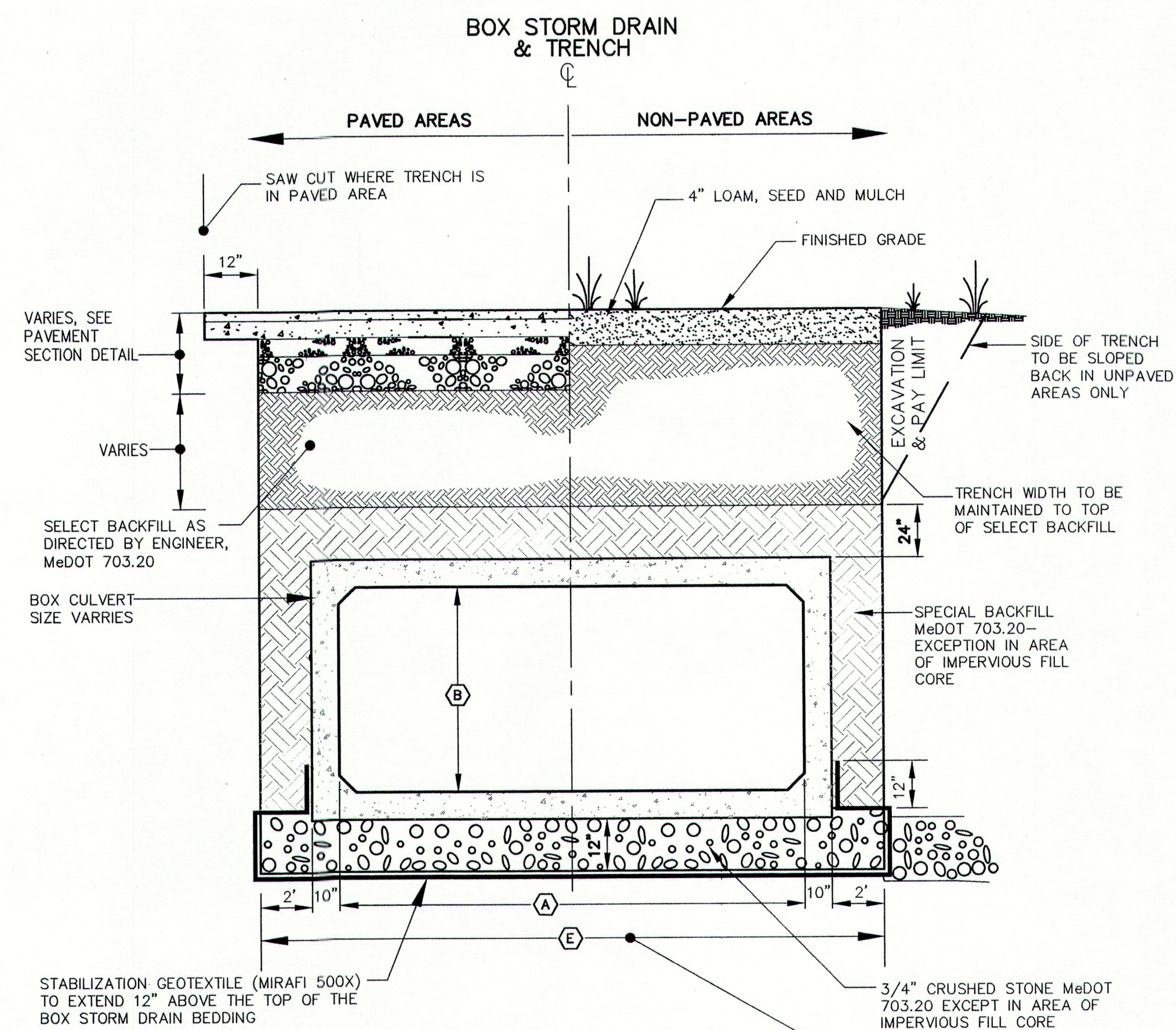
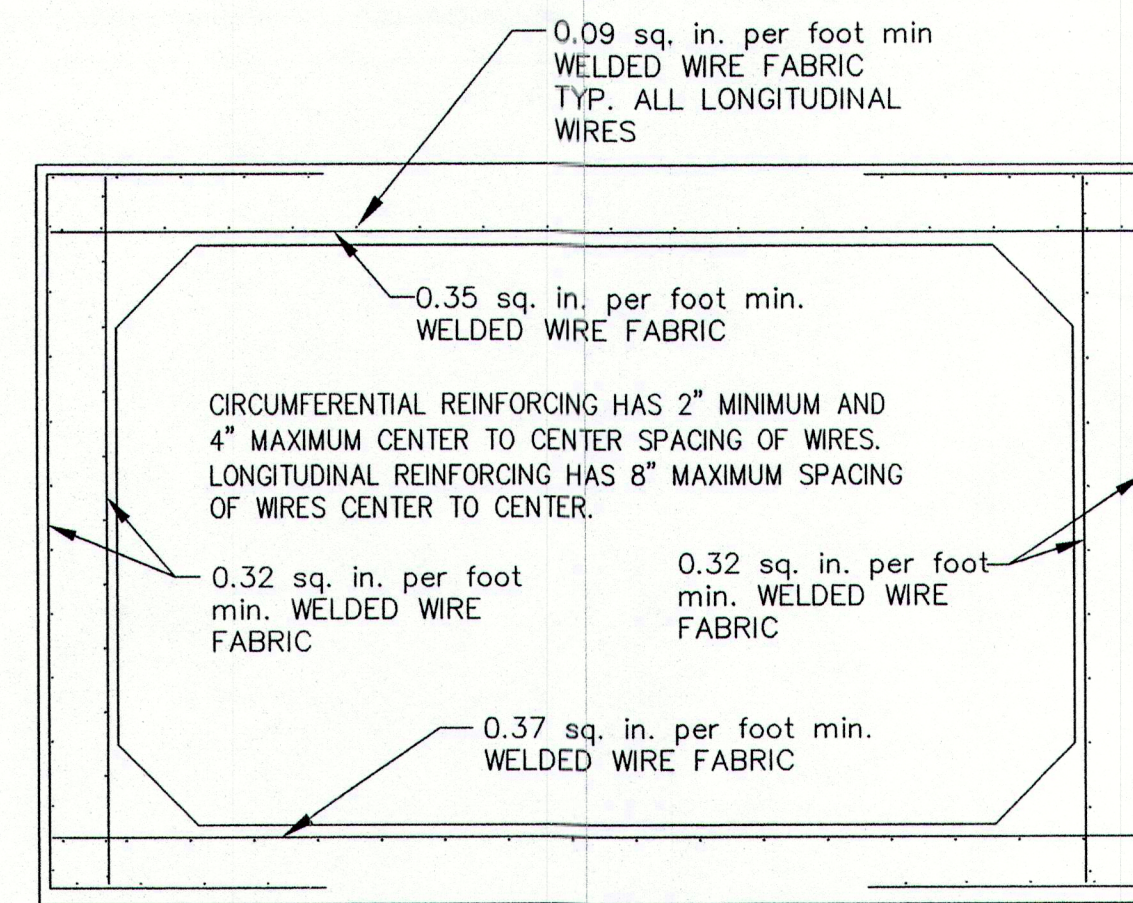


PROJECT	VILLAGE GREEN CUMBERLAND, MAINE
SHEET TITLE	SEWAGE PUMP STATION DETAILS
CLIENT	VILLAGE GREEN CUMBERLAND, LLC

DRAWN	CDD	DATE	MAY 2011
DESIGNED	JAL	SCALE	N.T.S.
CHECKED	JAL	JOB NO.	2998
FILE NAME	2998-DET		
SHEET	C-10.8		



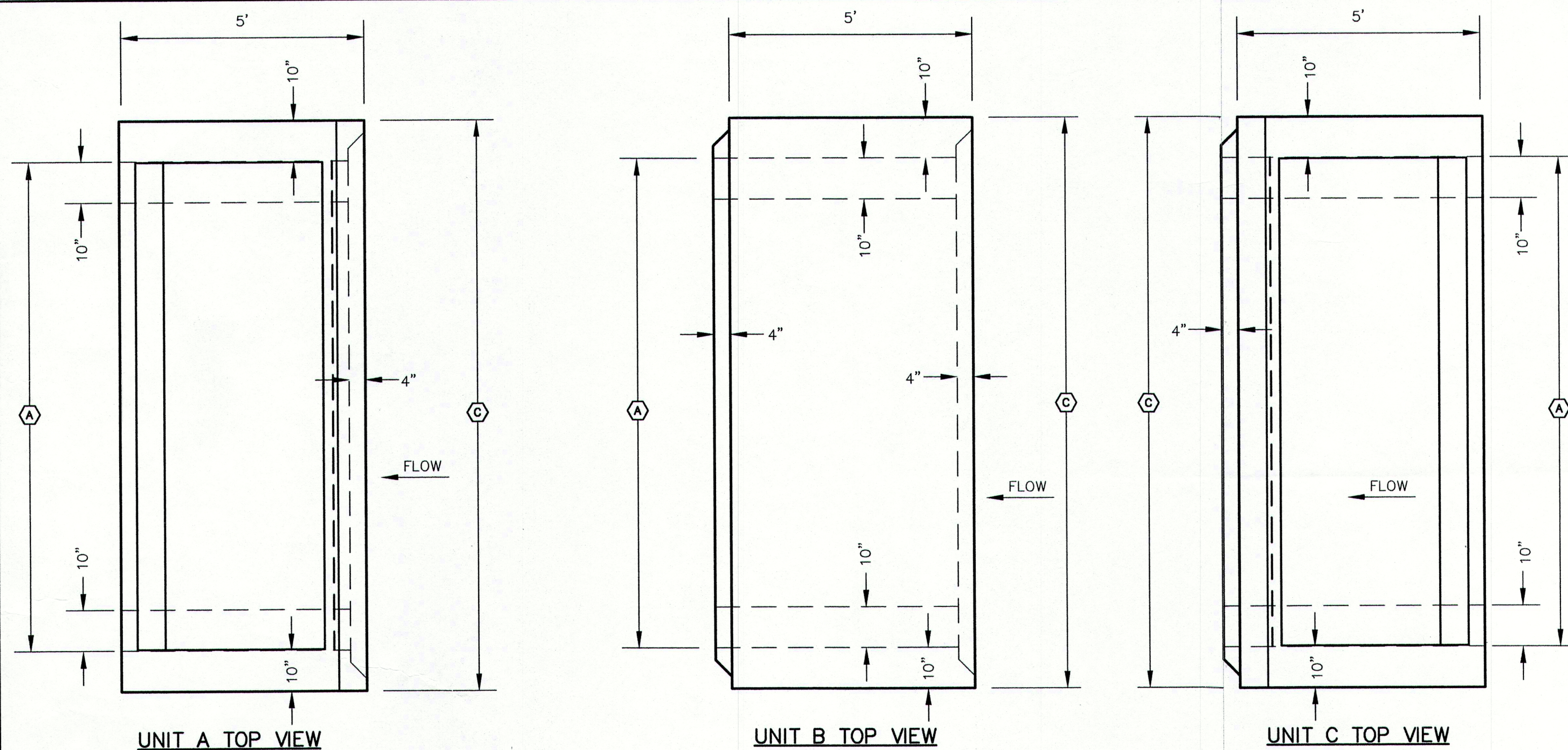
A BOX CULVERT TYPICAL UNIT SECTION
N.T.S.



NOTE:
BRACING AND SHEETING OR OTHER TRENCH PROTECTION TO BE PROVIDED TO MEET APPLICABLE STATE AND O.S.H.A. SAFETY STANDARDS. ALL SUCH TRENCH PROTECTION TO BE THE RESPONSIBILITY OF THE CONTRACTOR.

C BOX CULVERT TYPICAL TRENCH SECTION
N.T.S.

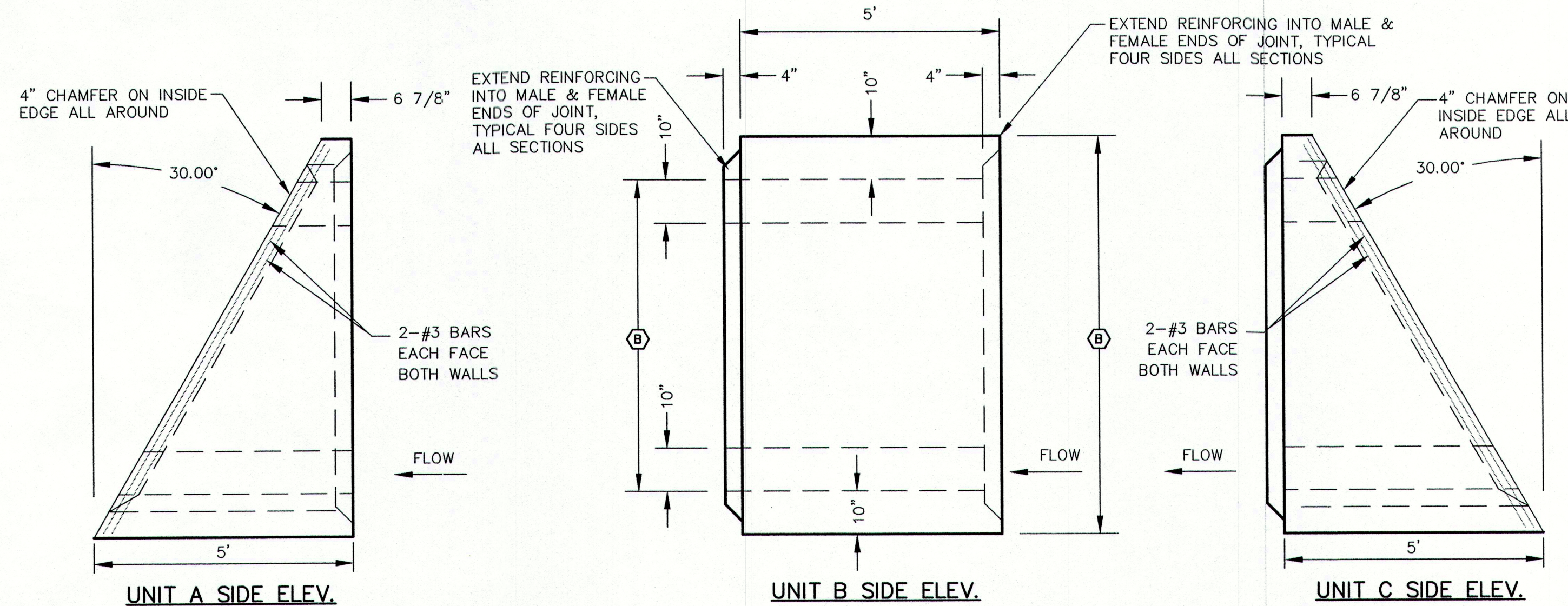
SCHEDULE A CULVERT DIMENSIONS		
ITEM DESCRIPTION	STREAM CROSSING #1	STREAM CROSSING #2
A INSIDE WIDTH	72"	96"
B INSIDE HEIGHT	60"	48"
C OUTSIDE WIDTH	92"	116"
D OUTSIDE HEIGHT	80"	68"
E TRENCH WIDTH	140"	164"



UNIT A TOP VIEW

UNIT B TOP VIEW

UNIT C TOP VIEW

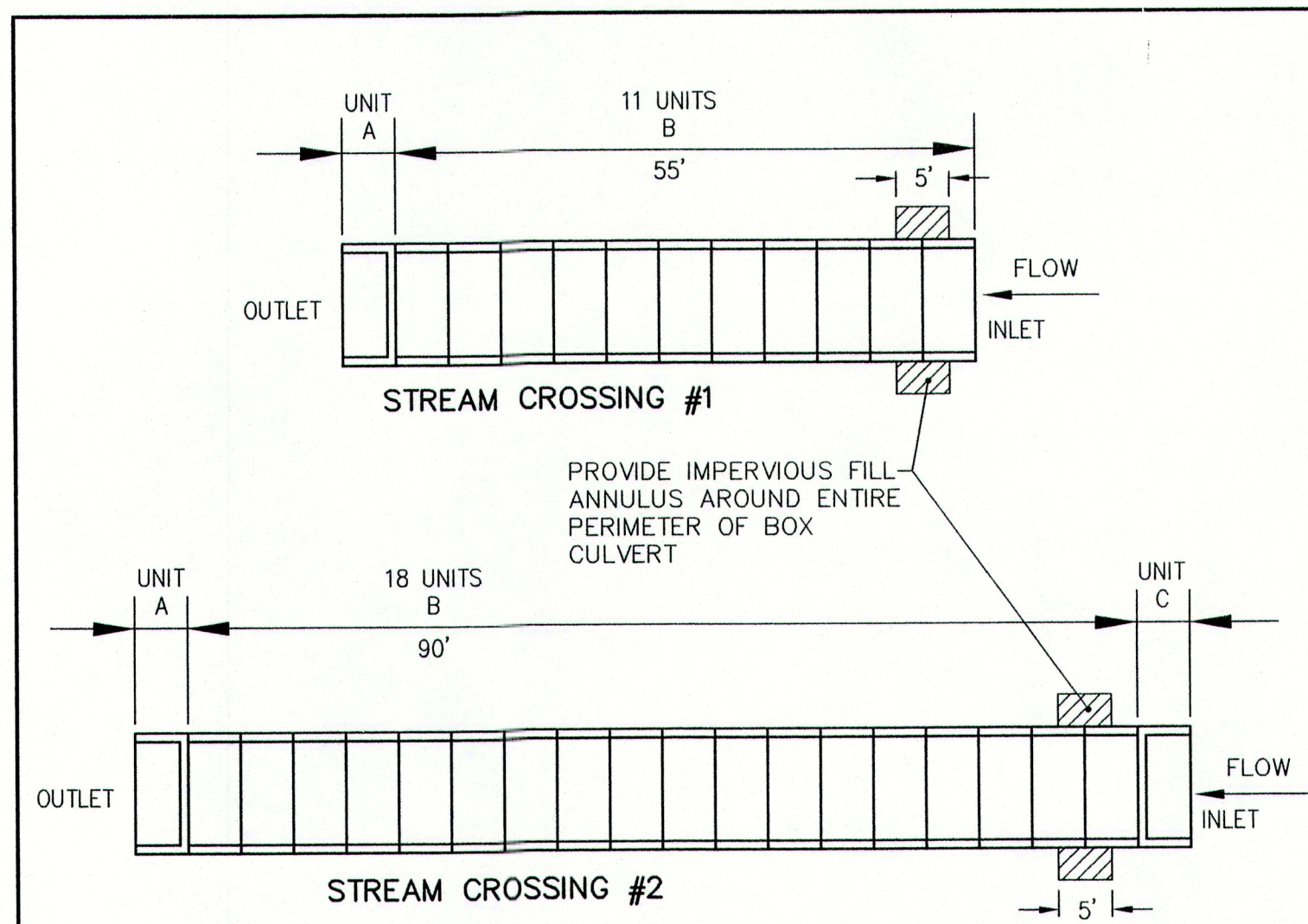


UNIT A SIDE ELEV.

UNIT B SIDE ELEV.

UNIT C SIDE ELEV.

B BOX CULVERT TYPICAL UNIT DETAILS
N.T.S.

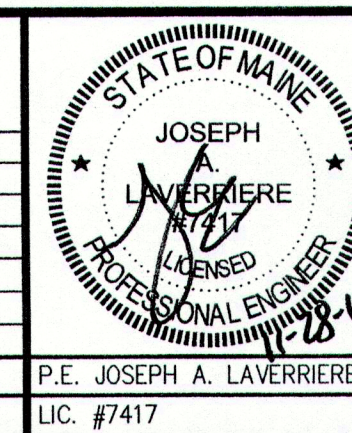


D BOX CULVERT ORIENTATION PLAN
N.T.S.

BOX CULVERT STRUCTURAL NOTES:

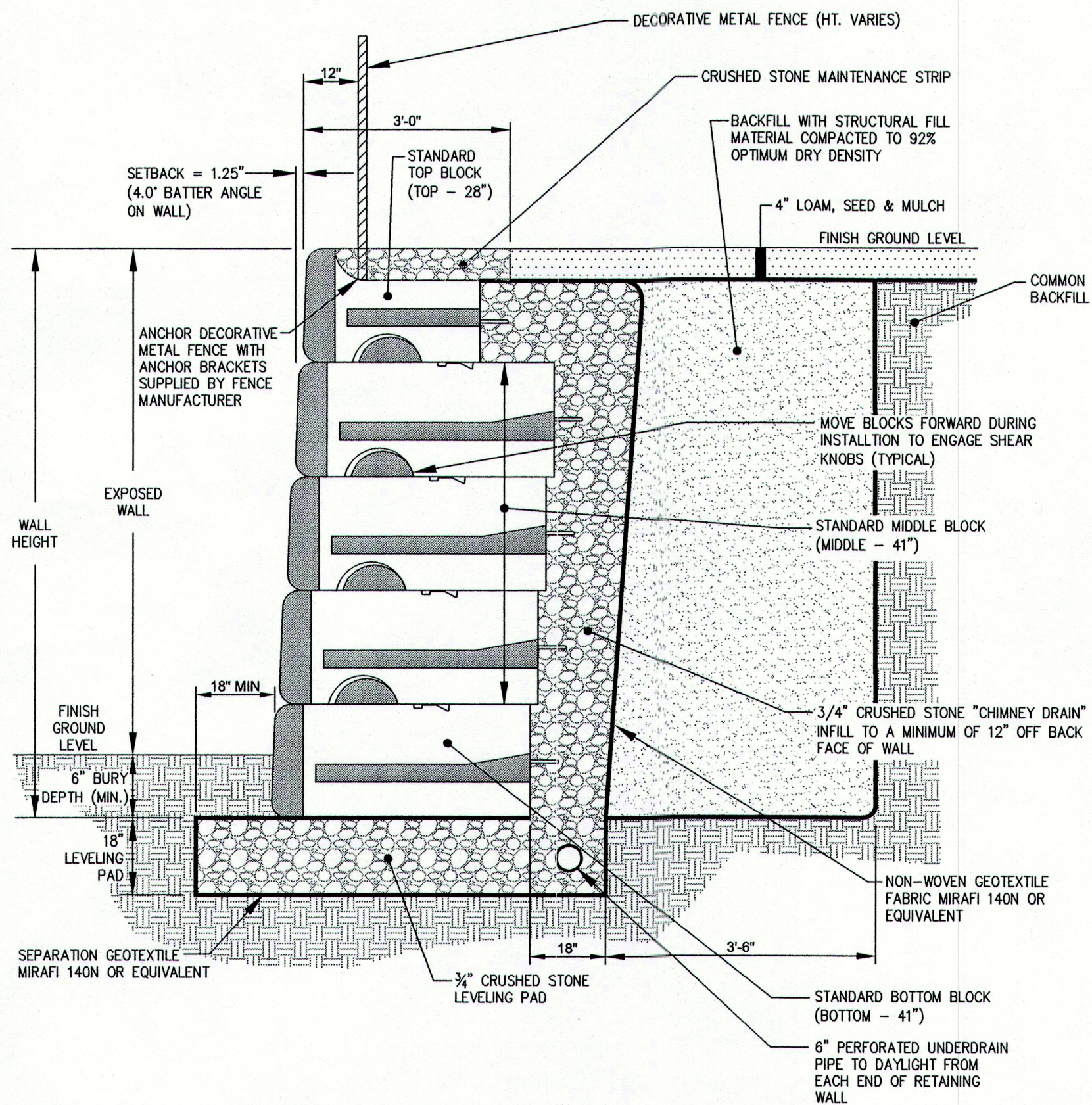
- CONCRETE BOX CULVERT TO CONFORM TO ASTM C789, STANDARD SPECIFICATION FOR CONCRETE BOX SECTIONS FOR CULVERTS, STORM DRAINS, AND SEWERS.
- CONCRETE TO ACHIEVE A 28 DAY COMPRESSIVE STRENGTH OF 5000 PSI AT 28 DAYS.
- CONCRETE REINFORCING STEEL TO CONFORM TO ASTM A185 GRADE 60 FOR WELDED WIRE FABRIC AND ASTM A615 GRADE 60 AS SHOWN ON THE DRAWINGS.
- JOINTS TO BE SEALED WITH TWO LAYERS OF 1" DIA BUTYL RUBBER SEALANT PRIOR TO MATING SECTIONS TOGETHER. JOINTS TO BE CLEAN AND FREE OF FOREIGN MATTER WHEN JOINTS ARE MADE.
- CLEAR CONCRETE COVER OF 1" TO BE MAINTAINED OVER REINFORCING STEEL ON ALL SURFACES.
- PRECAST SECTIONS TO BE MANUFACTURED BY AN ESTABLISHED PRECAST CONCRETE MANUFACTURING COMPANY WITH AT LEAST FIVE YEARS EXPERIENCE IN THE BUSINESS OF PRECAST CONCRETE MANUFACTURING. AMERICAN CONCRETE INDUSTRIES OF BANGOR, ME. (1-800-432-7843) OR NEW ENGLAND PIPE OF WAUREGAN, CT. (1-800-962-7473) ARE ACCEPTABLE MANUFACTURERS OF CONCRETE BOX CULVERT SECTIONS.
- PLACE CULVERT ON 12" THICK BED OF CRUSHED STONE UNDERLAIN WITH MIRAFI 500X GEOTEXTILE FABRIC.
- BACKFILL AROUND AND ON TOP OF CULVERT WITH 24" OF SELECT BACKFILL MEETING THE SPECIFICATION FOR MDOT 703.20 GRANULAR BORROW WITH A MAXIMUM STONE SIZE OF 6".
- SUBMIT CONCRETE REINFORCEMENT PLACEMENT DRAWINGS FOR REVIEW BY THE ENGINEER.

REV	DATE	DESCRIPTION	REVISIONS
7	11.28.11	PHASE 1 CONSTRUCTION SET	
6	09.13.11	RESUBMITTED TO TOWN	
5	08.01.11	RESUBMITTED TO TOWN	
4	07.22.11	REVISED PER TOWN COMMENTS AND RESUBMITTED	
3	06.30.11	RESUBMITTED TO TOWN	
2	06.21.11	REVISED PER INTERNAL REVIEW	
1	05.31.11	SUBMITTED TO TOWN AND DEP	
REV	DATE	DESCRIPTION	REVISIONS



PROJECT	VILLAGE GREEN CUMBERLAND, MAINE
SHEET TITLE	PRECAST CONCRETE BOX CULVERT DETAILS
CLIENT	VILLAGE GREEN CUMBERLAND, LLC

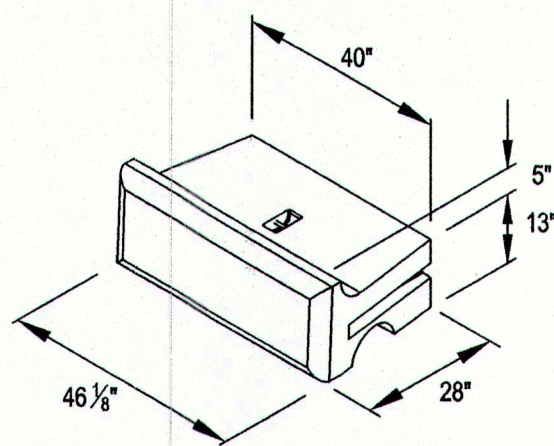
DRAWN:	CDD	DATE:	MAY 2011
DESIGNED:	JAL	SCALE:	N.T.S.
CHECKED:	JAL	JOB NO.	2998
FILE NAME:	2998-DET		
SHEET	C-10.9		



(A) LARGE BLOCK RETAINING WALL DETAIL
N.T.S.

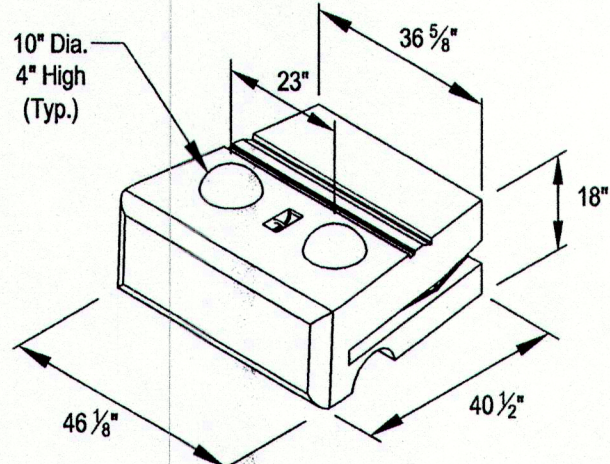
STANDARD TOP BLOCK

Top - 28"
Volume = 8.55 cft
Weight = ±1223 lbs



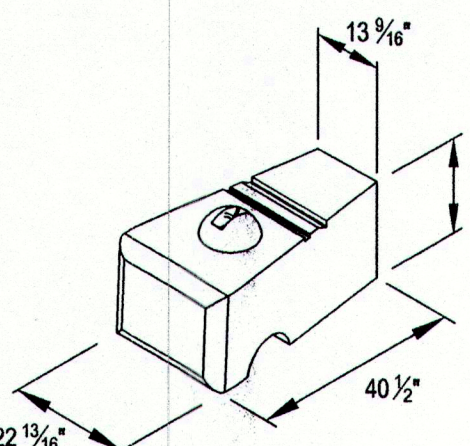
STANDARD MIDDLE BLOCK

Middle - 41"
Volume = 16.44 cft
Weight = ±2351 lbs



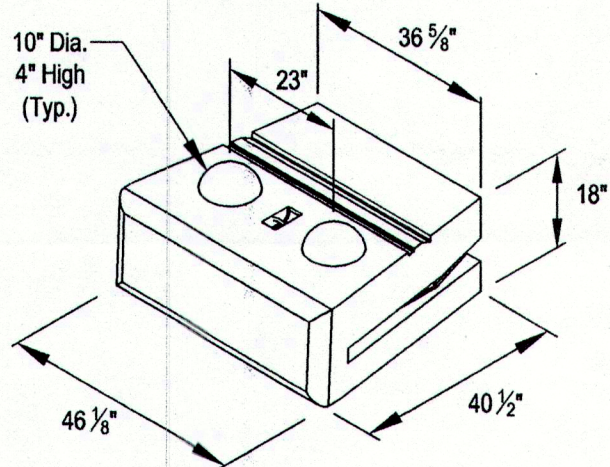
HALF MIDDLE BLOCK

Half Middle - 41"
Volume = 7.28 cft
Weight = ±1041 lbs



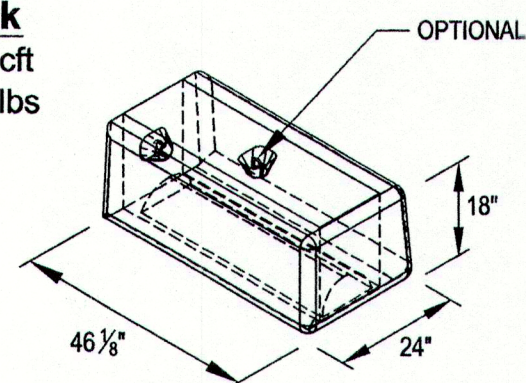
STANDARD BOTTOM BLOCK

Bottom - 41"
Volume = 17.37 cft
Weight = ±2483 lbs

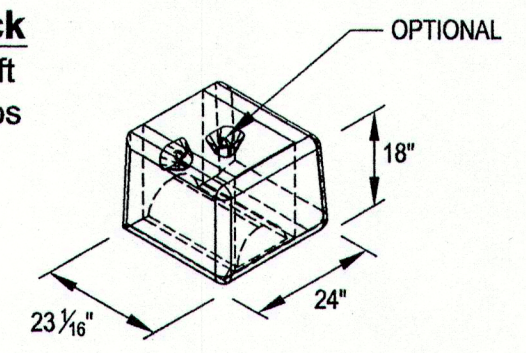


FREESTANDING TOP BLOCK

Full Top Block
Volume = 10.44 cft
Weight = ±1493 lbs

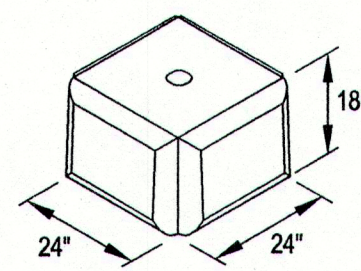


Half Top Block
Volume = 5.18 cft
Weight = ±741 lbs

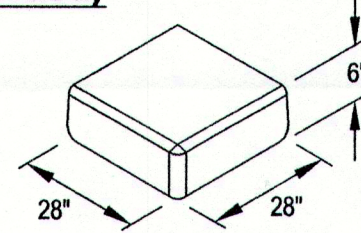


FREESTANDING COLUMN BLOCKS

End Column
Volume = 5.39 cft
Weight = ±771 lbs



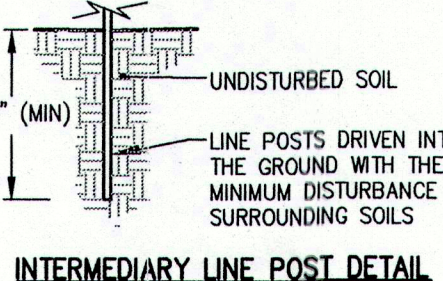
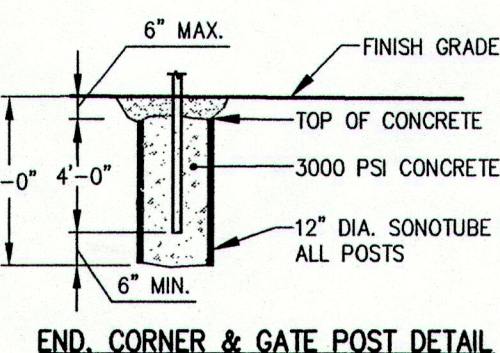
Column Cap (4 Sided)
Volume = 3.02 cft
Weight = ±432 lbs



NOTES:

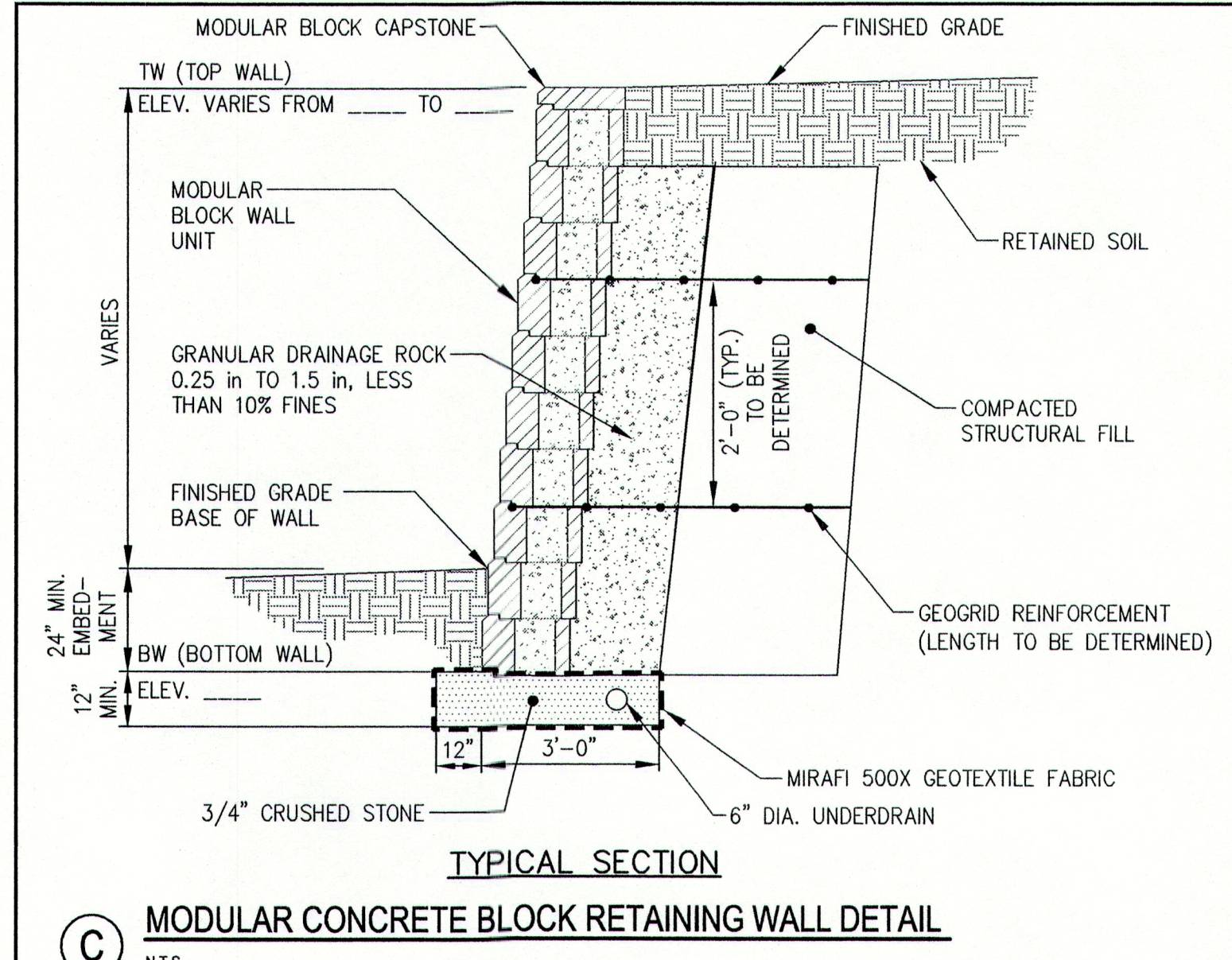
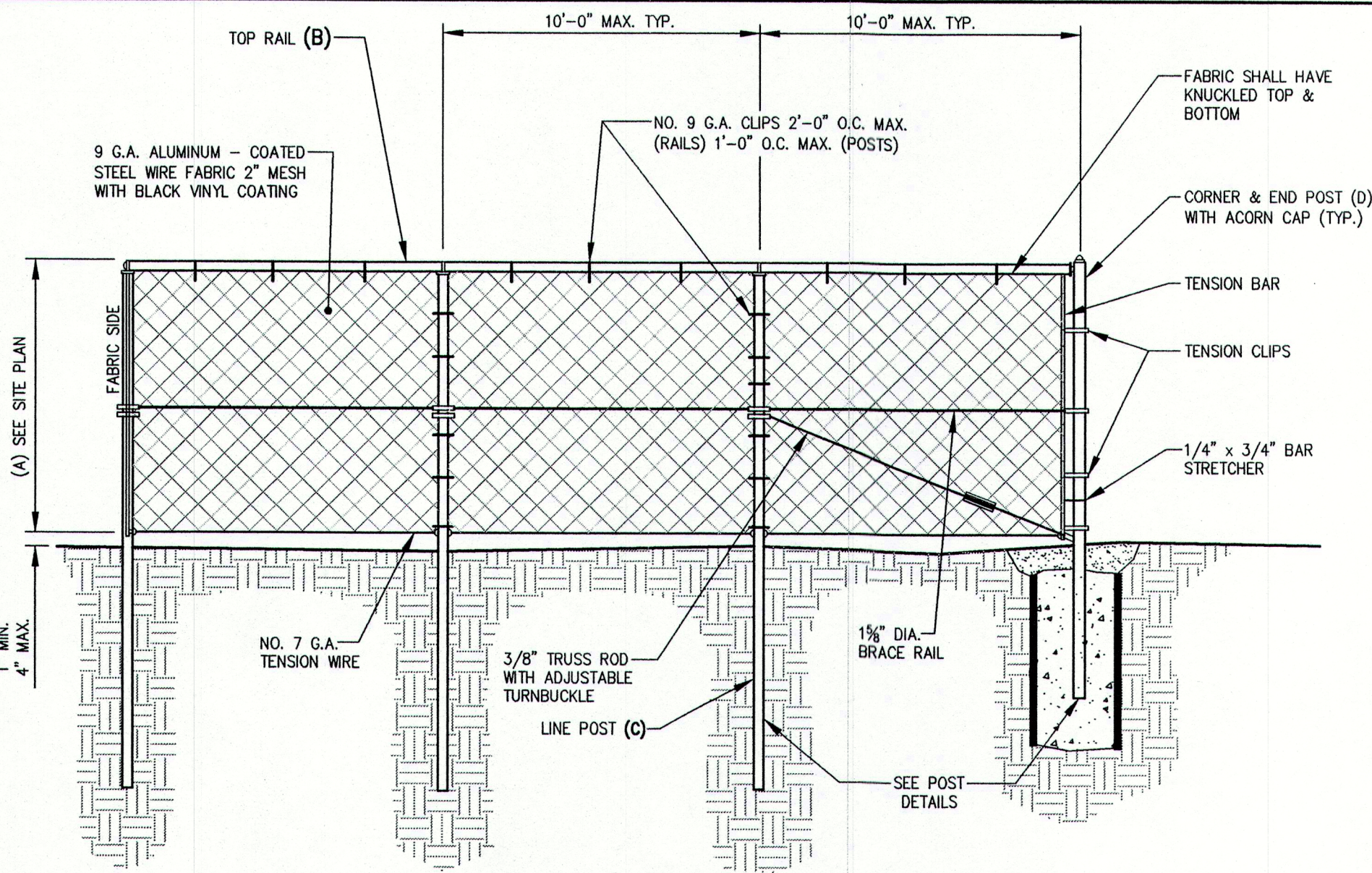
1. RETAINING WALL MATERIAL SHALL BE REDI-ROCK LARGE BLOCK SEGMENTAL CONCRETE UNIT MASONRY RETAINING WALL SYSTEM WITH LEDGESTONE TEXTURED FINISH OR APPROVED EQUAL.
2. A DECORATIVE METAL RAIL FENCE (HEIGHT VARIES FROM 3'-0" TO 4'-6") IS REQUIRED ALONG THE TOP OF RETAINING WALLS A & B. THIS FENCE SHALL BE ANCHORED DIRECTLY TO THE TOP OF THE RETAINING WALL BLOCKS OR COLUMNS IN ACCORDANCE WITH ANCHOR BRACKETS SUPPLIED BY THE FENCE MANUFACTURER.
3. LARGE BLOCK SEGMENTAL CONCRETE UNIT MASONRY RETAINING WALLS REQUIRE UNDERDRAIN, CRUSHED STONE INFILL AND GRANULAR BORROW BACKFILL.
4. PREPARED SUBGRADE SHALL CONFORM TO THE GEOTECHNICAL RECOMMENDATIONS CONTAINED IN THE REPORT BY R.W. GILLESPIE ASSOCIATES, INC. AND PROJECT SPECIFICATIONS.
5. THE APPLIED FACTORED BEARING PRESSURE FOR PRECAST CONCRETE BLOCK GRAVITY WALL SHALL NOT EXCEED 3.0 KSF FOR UNREINFORCED WALL.
6. ALL BLOCKS AT THE ENDS OF THE WALL(S) MUST BE FINISHED ON THREE SIDES: THE FRONT, THE TOP AND THE EXPOSED END. BLOCKS WITH EXPOSED SURFACES AT THE ENDS AND TOP OF THE WALL MUST BE MANUFACTURED FOR THIS PURPOSE AND MUST BE FINISHED TO MATCH THE FACE OF THE BLOCKS.
7. PIPED DRAINAGE SHALL BE INCLUDED IN THE DESIGN OF THE WALLS.
8. A MINIMUM EMBEDMENT DEPTH OF 6" IS REQUIRED IN THE DESIGN AND CONSTRUCTION OF THE PRECAST CONCRETE BLOCK GRAVITY WALL.
9. THE FACE QUALITY OF PRECAST CONCRETE BLOCK WALL WILL BE APPROVED BY THE OWNER'S REPRESENTATIVE.
10. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS, PREPARED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF MAINE, FOR ALL RETAINING WALLS.

INSTALLATION SCHEDULE			
FENCE HEIGHT (A)	TOP RAIL PIPE DIA. (B)	LINE POST PIPE DIA. (C)	CORNER & END POST PIPE DIA. (D)
4'	1.66"	1.90"	2.375"
6'	1.66"	1.90"	2.375"
8'	1.66"	2.375"	2.875"
10'	1.66"	2.875"	2.875"



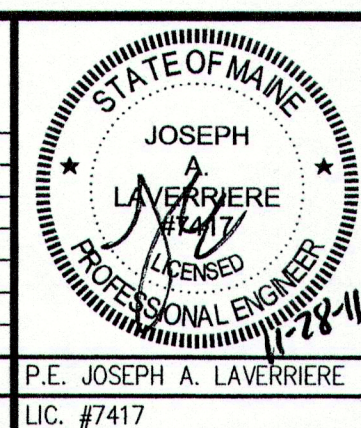
- NOTES:**
1. DIMENSIONS FOR PIPE DIAMETERS ARE NOMINAL OUTSIDE DIAMETERS.
 2. REFER TO SITE PLAN FOR LOCATION(S) & HEIGHT(S) OF FENCES TO BE INSTALLED.

(B) CHAIN LINK FENCE DETAIL
N.T.S.



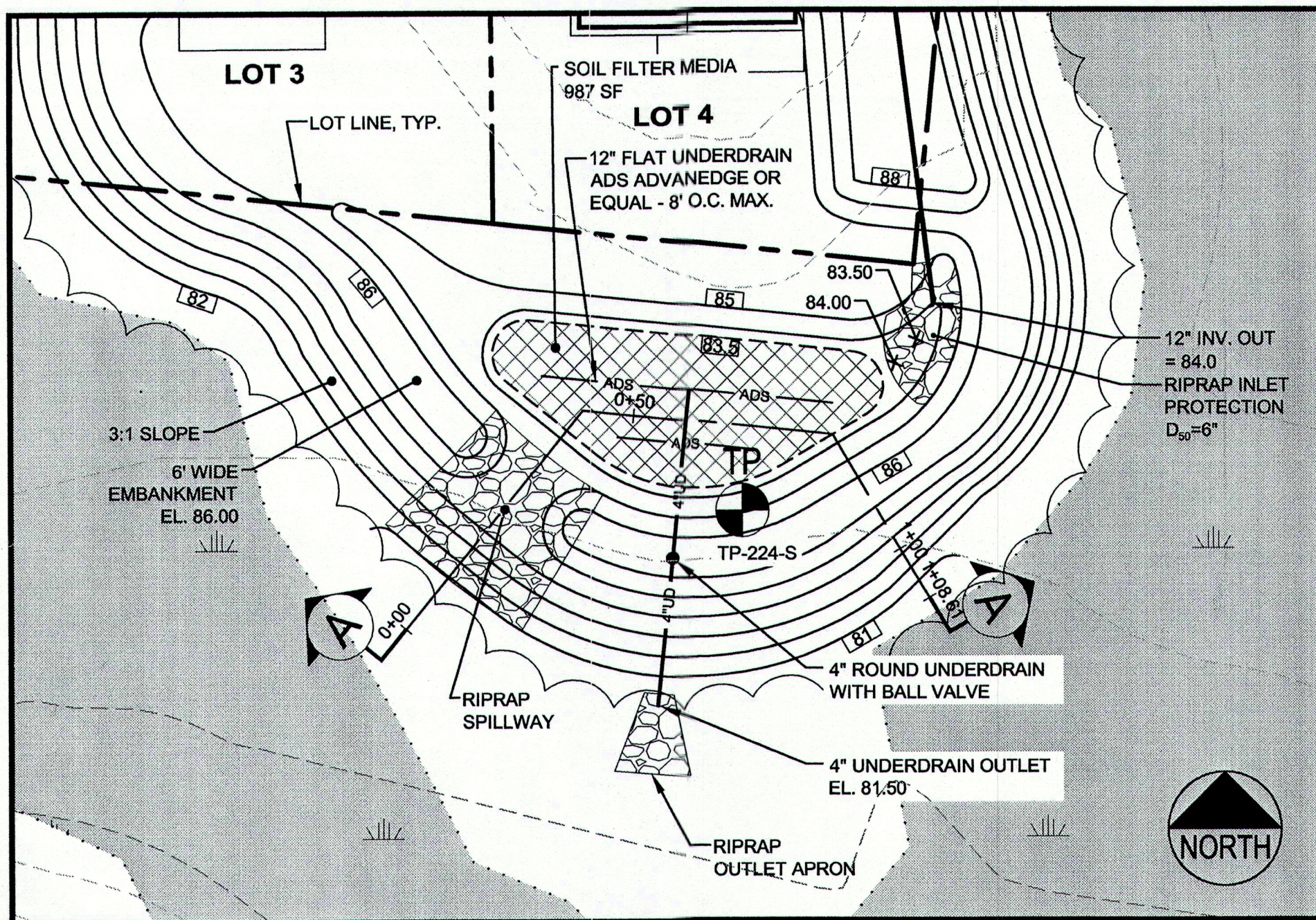
(C) MODULAR CONCRETE BLOCK RETAINING WALL DETAIL
N.T.S.

REV	DATE	DESCRIPTION
7	11.28.11	PHASE 1 CONSTRUCTION SET
6	09.13.11	RESUBMITTED TO TOWN
5	08.01.11	RESUBMITTED TO TOWN
4	07.22.11	REVISED PER TOWN COMMENTS AND RESUBMITTED
3	06.30.11	RESUBMITTED TO TOWN
2	06.21.11	REVISED PER INTERNAL REVIEW
1	05.31.11	SUBMITTED TO TOWN AND DEP
REVISIONS		



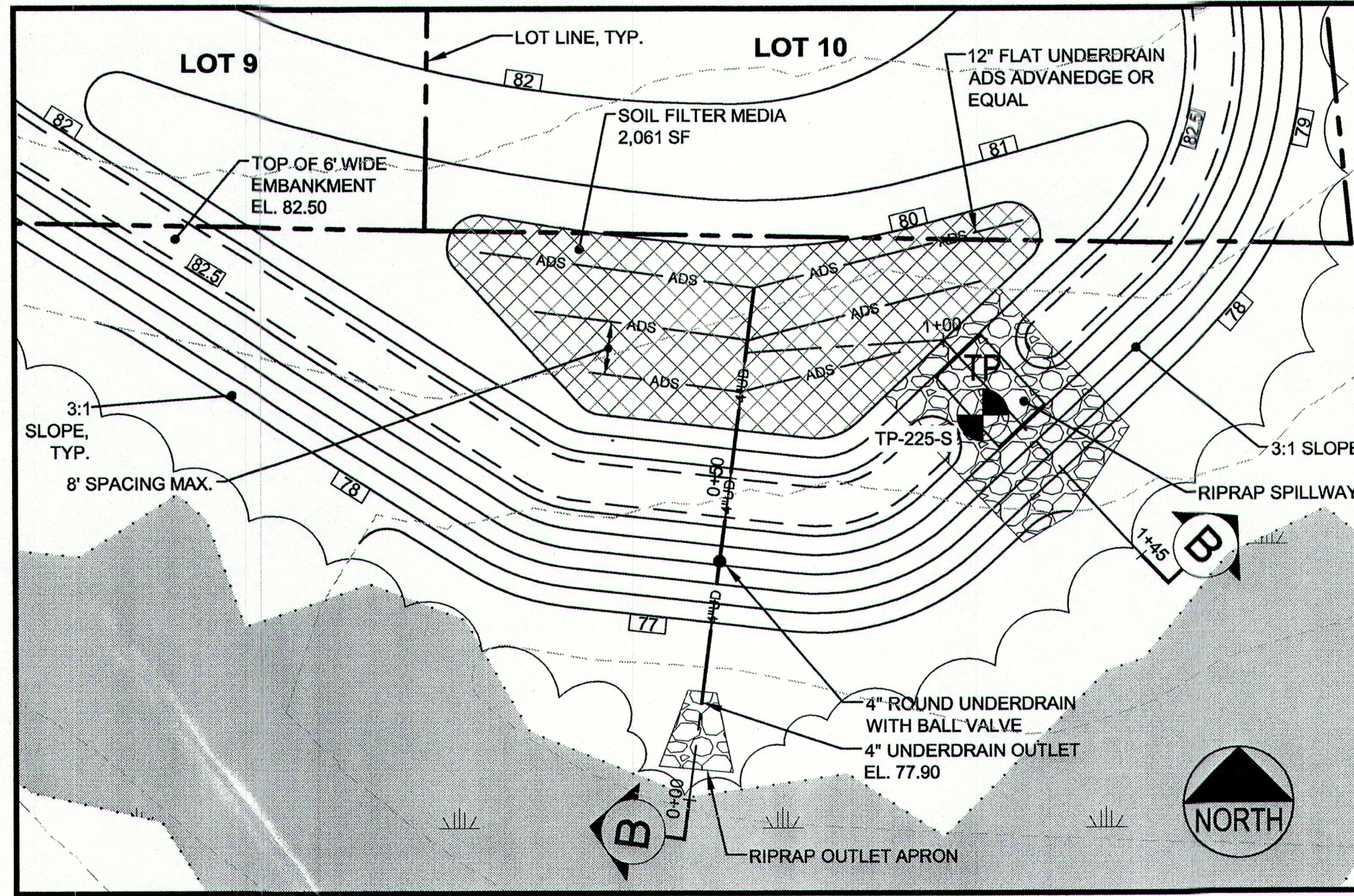
PROJECT	VILLAGE GREEN CUMBERLAND, MAINE
SHEET TITLE	RETAINING WALLS & FENCE DETAILS
CLIENT	VILLAGE GREEN CUMBERLAND, LLC

DRAWN:	CDD	DATE:	MAY 2011
DESIGNED:	JAL	SCALE:	N.T.S.
CHECKED:	JAL	JOB NO.	2998
FILE NAME:	2998-DET		
SHEET	C-10.10		



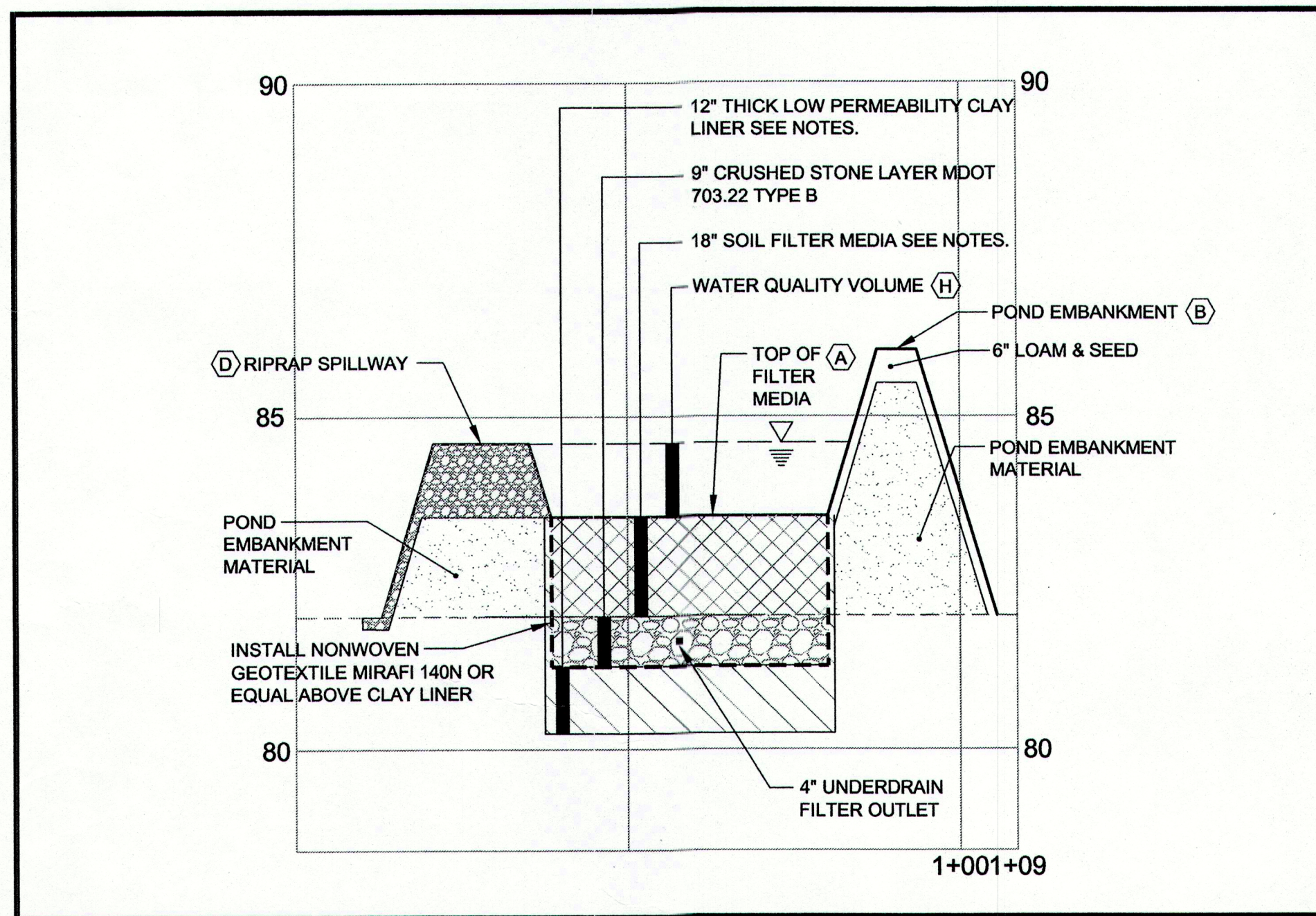
SOIL FILTER AREA #1 PLAN VIEW

SCALE: 1" = 20'



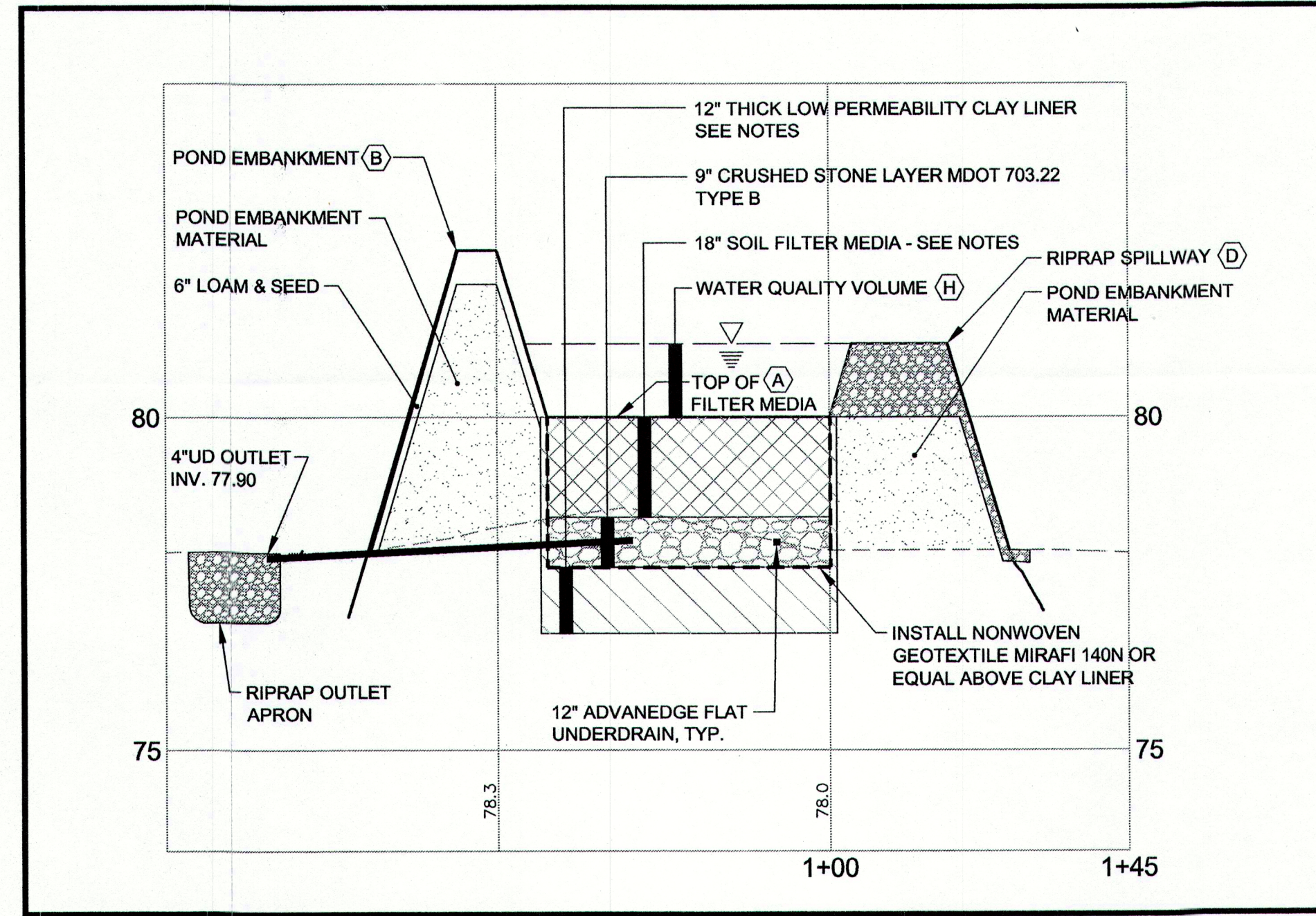
SOIL FILTER AREA #2 PLAN VIEW

SCALE: 1" = 20'



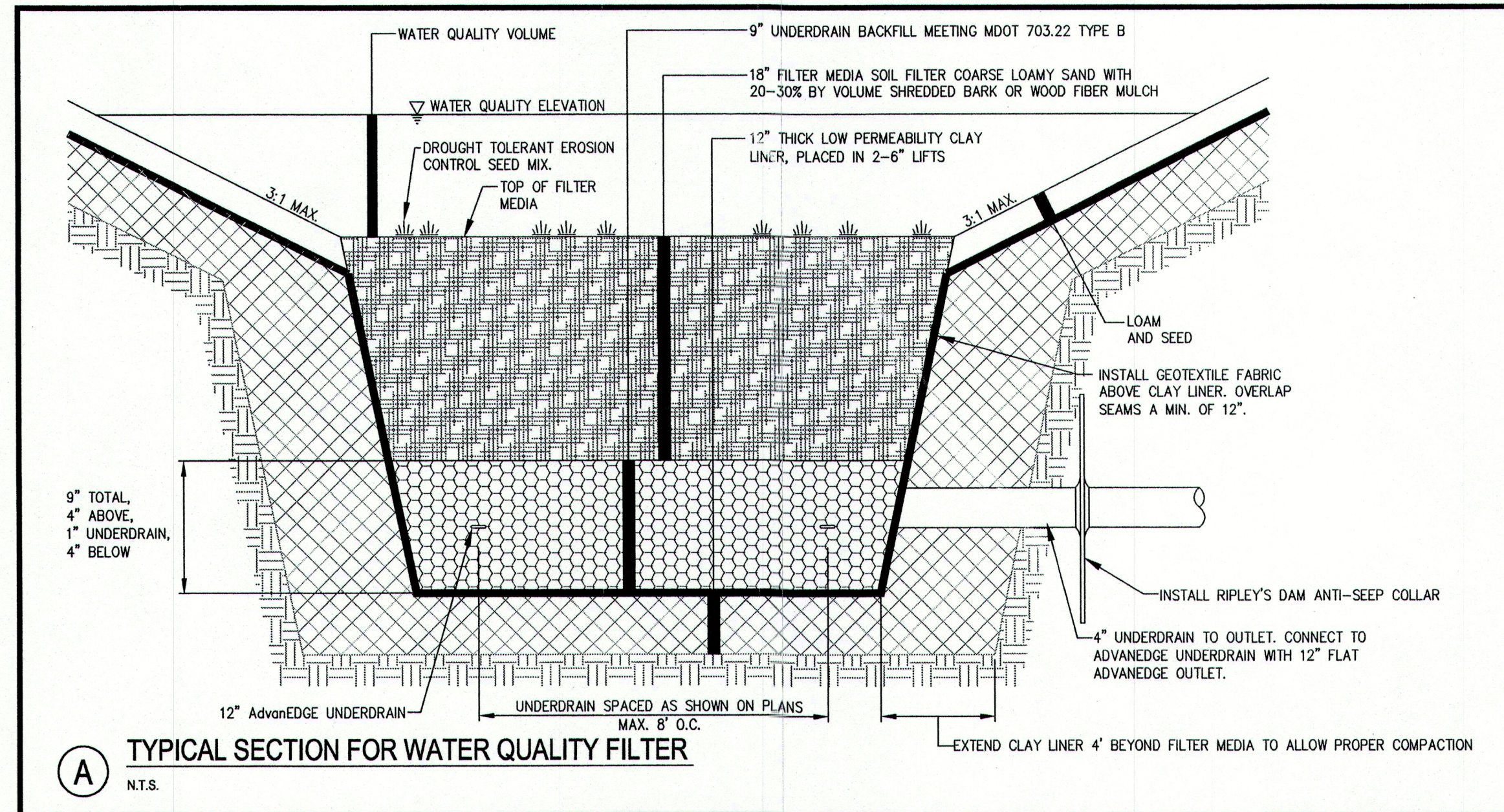
SOIL FILTER AREA #1 PROFILE SECTION A-A

SCALE: 1" = 20' HORIZ.
1" = 2' VERT.



SOIL FILTER AREA #2 PROFILE SECTION B-B

SCALE: 1" = 20' HORIZ.
1" = 2' VERT.



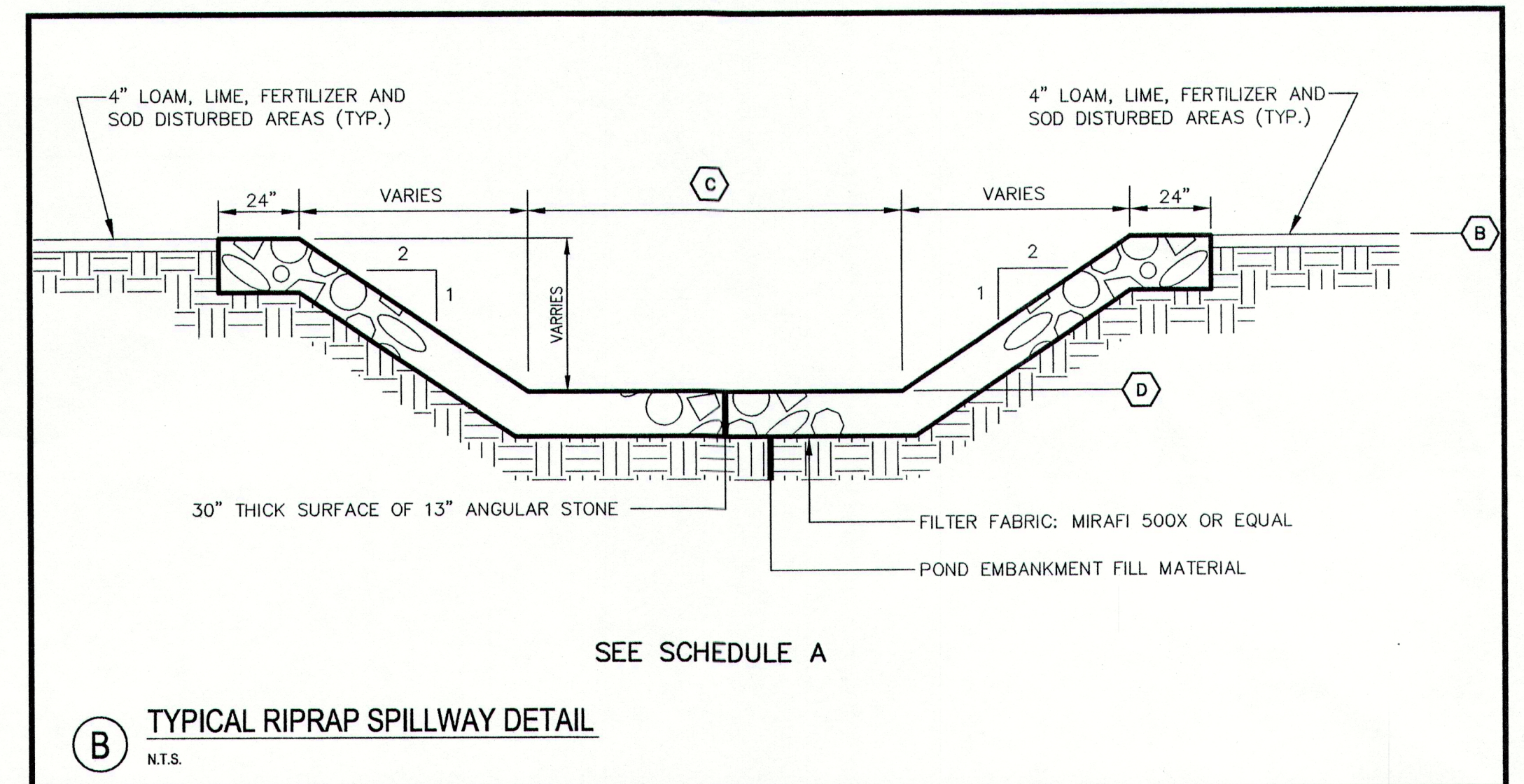
TYPICAL SECTION FOR WATER QUALITY FILTER

N.T.S.

NOTES:

1. FILTERS ARE DESIGNED TO TREAT 1.0" RUNOFF FROM PAVED OR IMPERVIOUS SURFACES AND 0.4" RUNOFF FROM LANDSCAPED AREAS.
2. **LOAM SOIL FILTER MEDIA:**
SOIL FILTER MEDIA MUST CONSIST OF A SILTY SAND SOIL OR SOIL MIXTURE COMBINED WITH 20% TO 25% BY VOLUME OF A MODERATELY FINE SHREDED BARK OR WOOD FIBER MULCH (OR OTHER ORGANIC SOURCE APPROVED BY THE ENGINEER & MDEP). THE RESULTING MIXTURE MUST HAVE NO LESS THAN 8% PASSING THE #200 SIEVE.
3. **SAND GRADATION FOR FILTER MEDIA: *SEE NOTE 4**

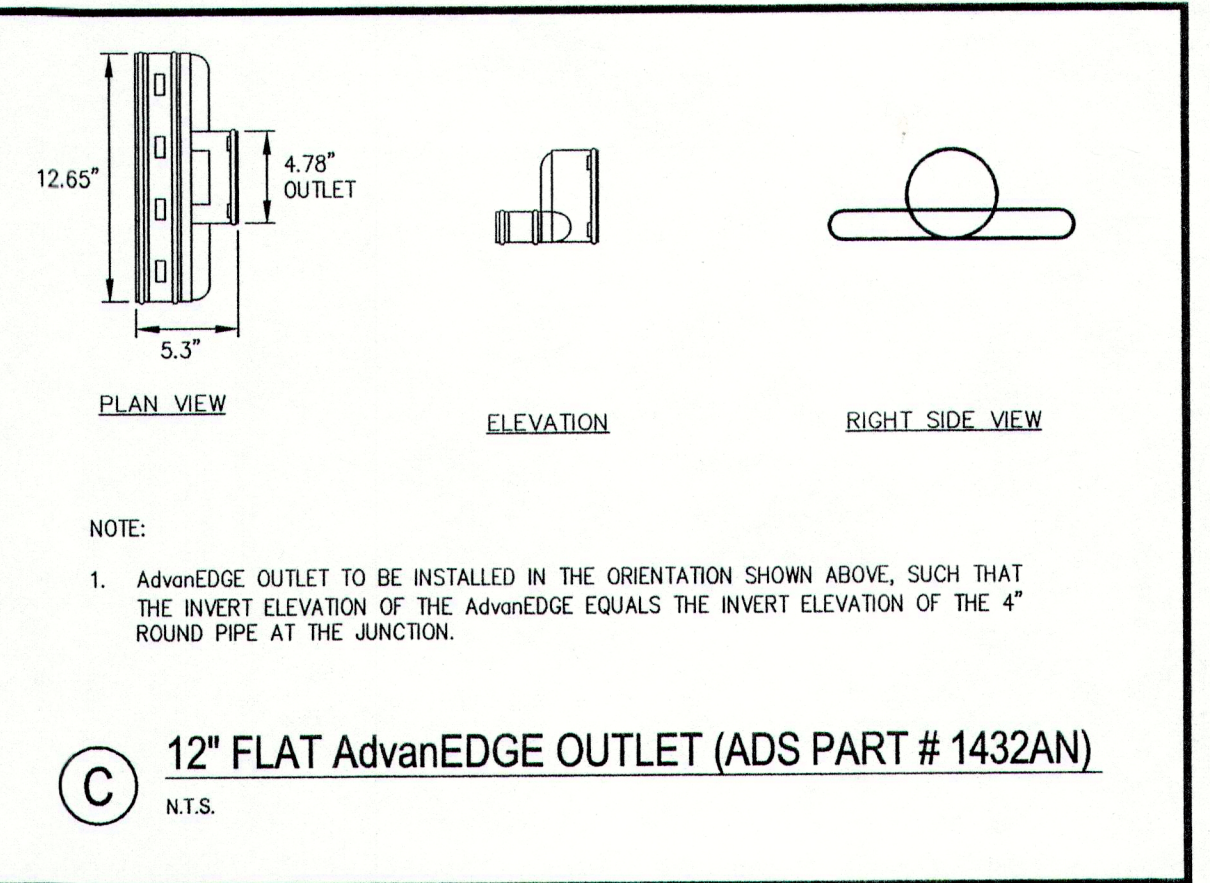
SIEVE SIZE	% PASSING BY WEIGHT
3/8	100
#4	95-100
#8	80-100
#16	50-85
#30	25-60
#60	10-30
#100	2-10
#200	0-5
4. THE FILTER MEDIA SPECIFICATION IS BASED UPON THE APRIL 2007 UPDATES TO THE MDEP BMP TECHNICAL DESIGN MANUAL. THESE ARE SUBJECT TO CHANGE BASED UPON OPERATING EXPERIENCE. GRADATION MAY BE CHANGED BY MDEP. VERIFY GRADATION IS CURRENT BEFORE INSTALLATION.
5. SEASONAL HIGH GROUND WATER ELEVATION IS APPROXIMATELY 0.7' BELOW EXISTING GROUND ELEVATION, BASED ON GEOTECHNICAL INVESTIGATIONS TP224-S AND TP225-S.
6. LOW PERMEABILITY CLAY LINER SHALL BE PLACED ABOVE PREPARED SUBGRADE IN 2 - 6" LIFTS TO PREVENT GROUNDWATER INFILTRATION. MAXIMUM ALLOWABLE IN PLACE PERMEABILITY SHALL BE 1 X 10⁻⁶ CM/S. LINER SHALL EXTEND UP POND SIDE SLOPES TO ELEVATION (H).
7. TESTING AND SUBMITTALS: THE CONTRACTOR SHALL IDENTIFY THE LOCATION OF THE SOURCE OF EACH COMPONENT OF THE FILTER MEDIA. ALL RESULTS OF FIELD AND LABORATORY TESTING SHALL BE SUBMITTED TO THE PROJECT ENGINEER FOR CONFIRMATION. THE CONTRACTOR SHALL:
 - SUBMIT SAMPLES OF EACH TYPE OF MATERIAL TO BE BLENDED FOR THE MIXED FILTER MEDIA AND SAMPLES OF THE UNDERDRAIN BEDDING MATERIAL. SAMPLES MUST BE A COMPOSITE OF THREE DIFFERENT LOCATIONS (GRASS) FROM THE STOCKPILE OR PIT FACE. SAMPLE SIZE REQUIRED WILL BE DETERMINED BY THE TESTING LABORATORY.
 - PERFORM A SIEVE ANALYSIS IS CONFORMING TO ASTM C136 (STANDARD TEST METHOD FOR SIEVE ANALYSIS OF FINE AND COARSE AGGREGATES; 1996) ON EACH TYPE OF THE SAMPLE MATERIAL. THE RESULTING SOIL FILTER MEDIA MIXTURE MUST HAVE 8% TO 12% BY WEIGHT PASSING THE #200 SIEVE, A CLAY CONTENT OF LESS THAN 2% (DETERMINED HYDROMETER GRAIN SIZE ANALYSIS) AND HAVE 10% DRY WEIGHT OF ORGANIC MATTER.
 - PERFORM A PERMEABILITY TEST ON THE SOIL FILTER MEDIA MIXTURE CONFORMING TO ASTM 2434 WITH THE MIXTURE COMPACTED TO 90-92% OF MAXIMUM DRY DENSITY BASED ON ASTM D698.
8. CONSTRUCTION OVERSIGHT: THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 7 DAYS PRIOR TO BEGINNING CONSTRUCTION ON THE FILTER BASINS. INSPECTION OF THE FILTER BASINS SHALL BE PROVIDED AT EACH PHASE OF CONSTRUCTION BY THE DESIGN ENGINEER WITH REQUIRED REPORTING TO MDEP. AT A MINIMUM, INSPECTIONS WILL OCCUR:
 - AFTER THE FILTER HAS BEEN GRADED TO SUBGRADE AND UNDERDRAIN PIPES HAVE BEEN INSTALLED BUT NOT BACKFILLED.
 - AFTER THE CRUSHED STONE LAYER IS INSTALLED BUT PRIOR TO PLACEMENT OF FILTER MEDIA.
 - AFTER SOIL FILTER MEDIA IS INSTALLED AND SEEDED.
 - AFTER ONE YEAR TO INSPECT THE HEALTH OF THE VEGETATION AND MAKE CORRECTIONS.
9. UPON COMPLETION OF INSTALLATION OF THE SOIL FILTER MEDIA, AND ESTABLISHMENT OF 90% OF GRASS COVER OVER THE FILTER MEDIA, THE CONTRACTOR SHALL FLOOD THE BASIN TO ELEVATION (H) WITH CLEAN WATER AND ADJUST THE BALL VALVE INSTALLED ON THE UNDERDRAIN OUTLET TO ACHIEVE A 24-32 HOUR DRAIN TIME.



TYPICAL RIPRAP SPILLWAY DETAIL

N.T.S.

SCHEDULE A UNDERDRAINED FILTER ELEVATIONS		
ITEM/DESCRIPTION	DIMENSION/ELEVATION	
	FILTER #1	FILTER #2
(A) BOTTOM OF POND ELEVATION	83.50	80.00
(B) TOP OF BERM ELEVATION	86.00	82.50
(C) WIDTH OF SPILLWAY	15'	15'
(D) CREST OF SPILLWAY	84.60	81.10
(E) 2 YEAR STAGE	84.68	81.19
2 YEAR STORAGE (CF)	1,558 CF	4,177 CF
(F) 10 YEAR STAGE	84.75	81.35
10 YEAR STORAGE (CF)	1,698 CF	5,124 CF
(G) 25 YEAR STAGE	84.77	81.39
25 YEAR STORAGE (CF)	1,737 CF	5,382 CF
(H) WATER QUALITY STAGE	84.60	81.10
WATER QUALITY STORAGE (CF)	1,420 CF	3,647 CF

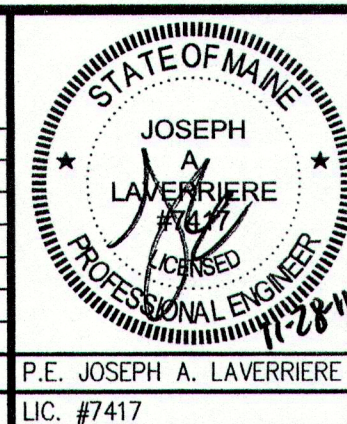


12" FLAT AdvanEDGE OUTLET (ADS PART # 1432AN)

N.T.S.

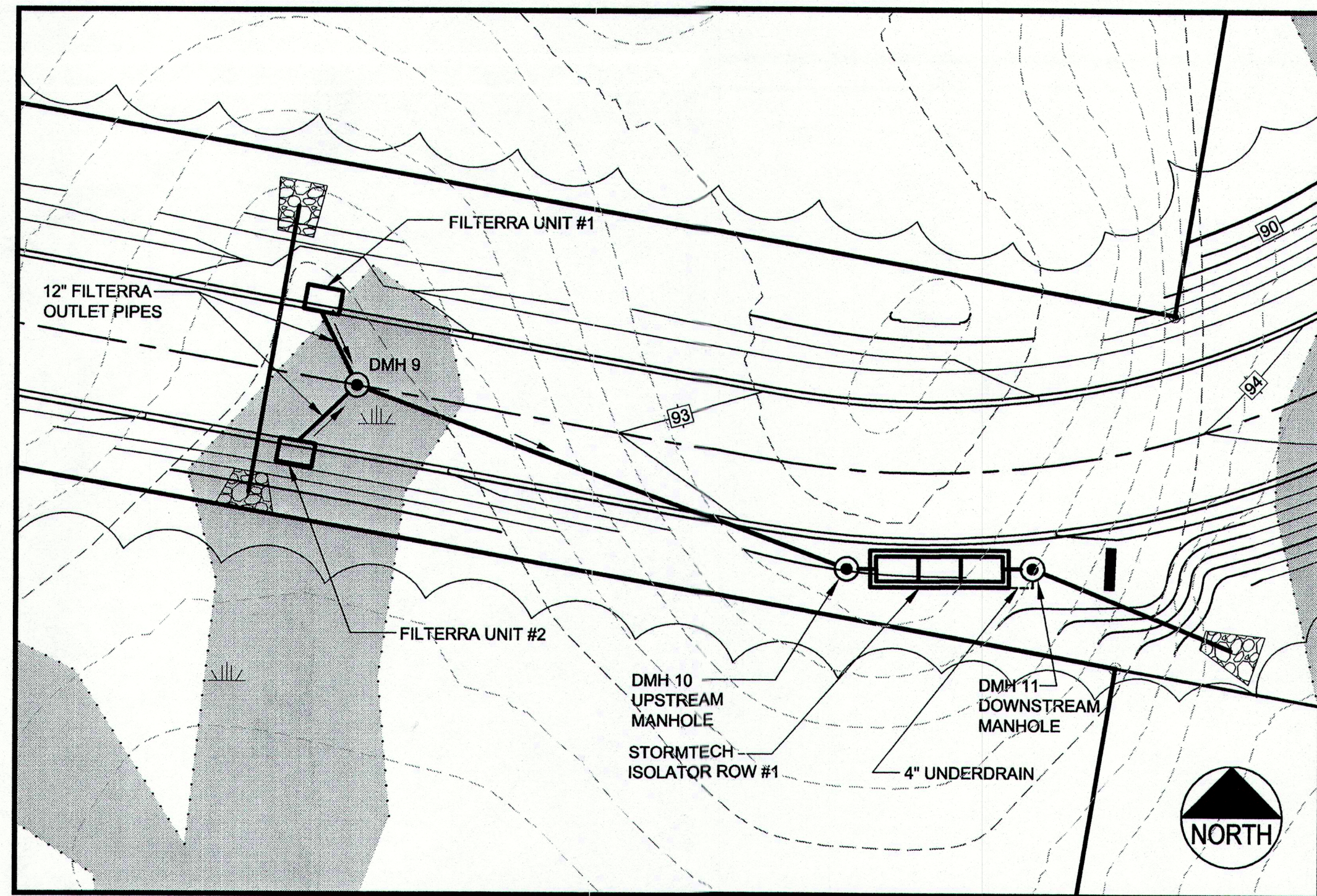
TEST PIT DATA					
TEST PIT NO.	BMP	EXISTING GROUND ELEVATION	DEPTH TO GROUNDWATER	GROUNDWATER ELEVATION	BOTTOM OF FILTER MEDIA
TP 224-S	SOIL FILTER #1	82.50	0.7'	81.80	81.5
TP 225-S	SOIL FILTER #2	78.50	0.7'	77.80	78.0

REV	DATE	DESCRIPTION	REVISIONS
7	11.28.11	PHASE 1 CONSTRUCTION SET	
6	09.13.11	RESUBMITTED TO TOWN	
5	08.01.11	RESUBMITTED TO TOWN	
4	07.22.11	REVISED PER TOWN COMMENTS AND RESUBMITTED	
3	06.30.11	RESUBMITTED TO TOWN	
2	06.21.11	REVISED PER INTERNAL REVIEW	
1	05.31.11	SUBMITTED TO TOWN AND DEP	
REV	DATE	DESCRIPTION	REVISIONS



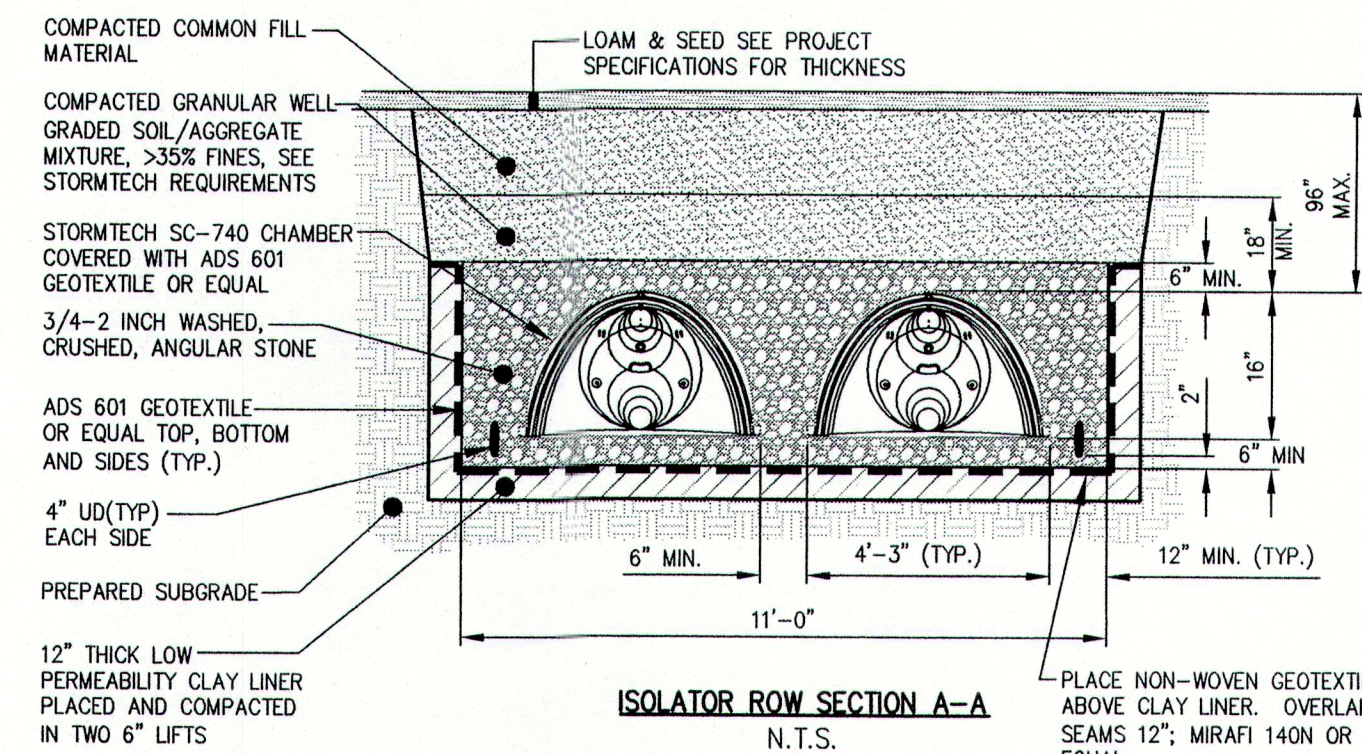
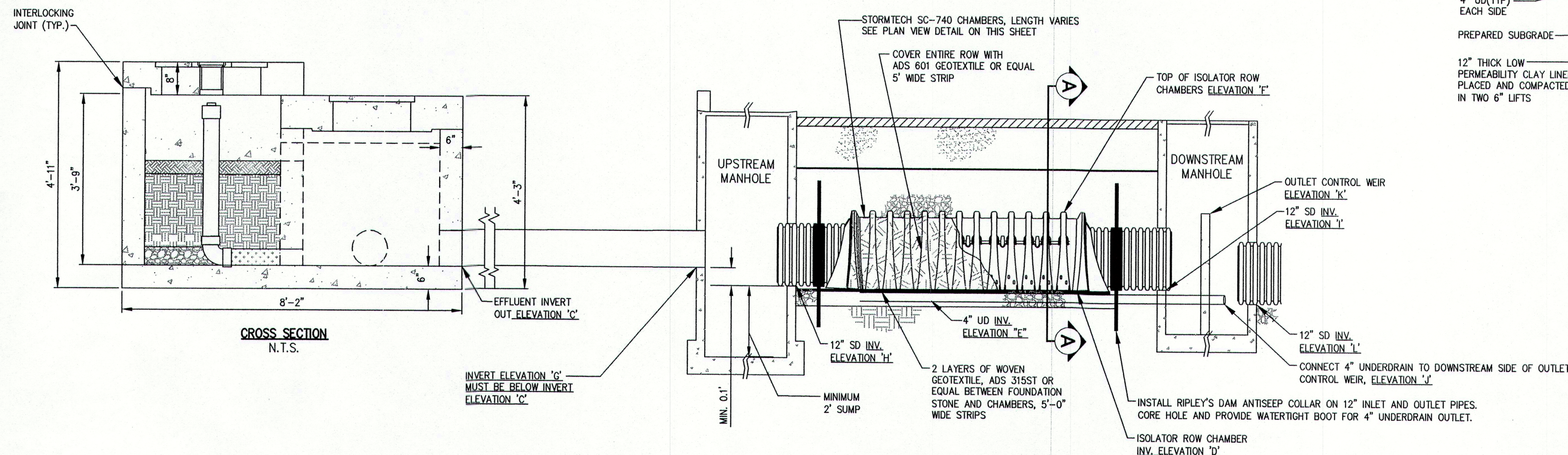
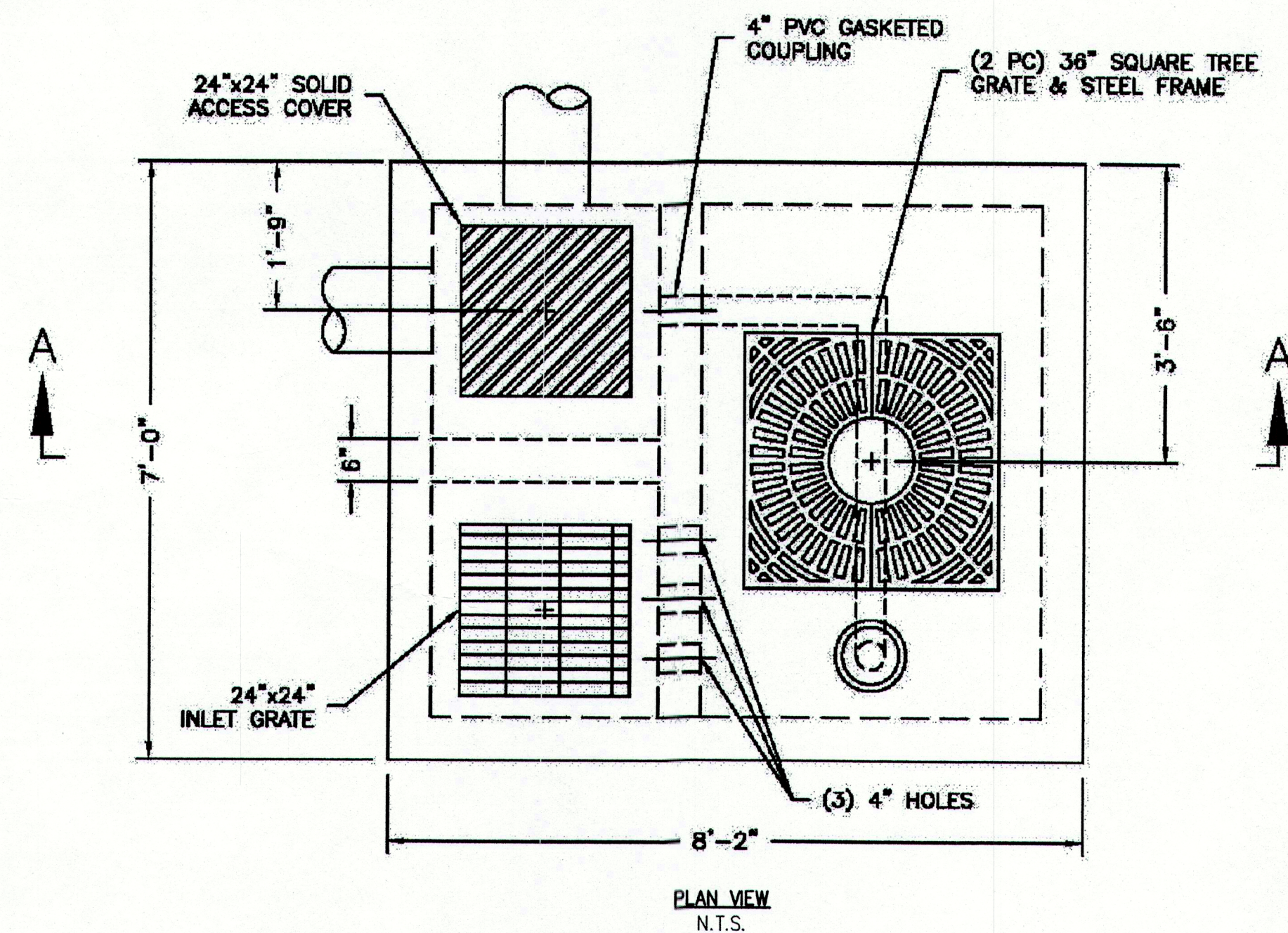
PROJECT	VILLAGE GREEN CUMBERLAND, MAINE
SHEET TITLE	SOIL FILTER AREAS PLANS & SECTIONS
CLIENT	VILLAGE GREEN CUMBERLAND, LLC

DESIGNED: JAL	SCALE: AS NOTED
CHECKED: JAL	JOB NO. 2998
FILE NAME: 2998-POND PLAN & SECTIONS	
SHEET	C-11.0



FILTERRA TREATMENT AREA #1 PLAN VIEW

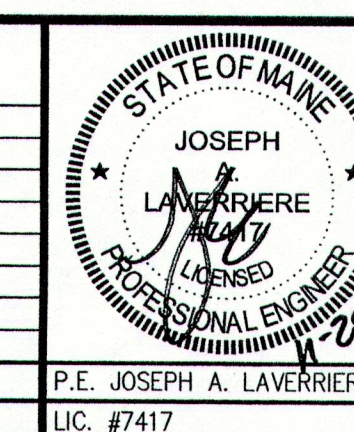
SCALE: 1" = 20'



FILTERRA ELEVATION TABLE						
FILTERRA ID	SIZE	TYPE	ISOLATOR ROW NO.	GRATE ELEVATION	RIM / TOP SLAB ELEVATION	INVERT ELEVATION
1	6x4	Grated Inlet	#1	A	B	C
2	6x4	Grated Inlet	#1	92.17	92.84	88.42
				92.17	92.84	88.42

STORMTECH ISOLATOR ROW TABLE									
ISOLATOR ROW ID	NUMBER OF CHAMBERS	CHAMBER INVERT ELEVATION	UNDERDRAIN INV.	TOP OF CHAMBER ELEVATION	UPSTREAM MANHOLE INV.	UPSTREAM MANHOLE INV. OUT	DOWNSIDE MANHOLE INV. IN FROM CHAMBERS	DOWNSIDE MANHOLE INV. IN FROM UNDERDRAIN	OUTLET CONTROL WEIR ELEVATION
#1	3	87.60	87.43	90.10	SEE PLAN	87.60	87.40	87.33	90.10

REV	DATE	DESCRIPTION
8	11.26.11	PHASE 1 CONSTRUCTION SET
7	09.13.11	RESUBMITTED TO TOWN
6	08.01.11	RESUBMITTED TO TOWN
5	07.22.11	REVISED PER TOWN COMMENTS AND RESUBMITTED
4	07.08.11	REVISED PER COMMENTS OF BILL NOBLE
3	06.30.11	RESUBMITTED TO TOWN
2	06.21.11	REVISED PER INTERNAL REVIEW
1	05.31.11	SUBMITTED TO TOWN AND DEP



PROJECT
**VILLAGE GREEN
CUMBERLAND, MAINE**

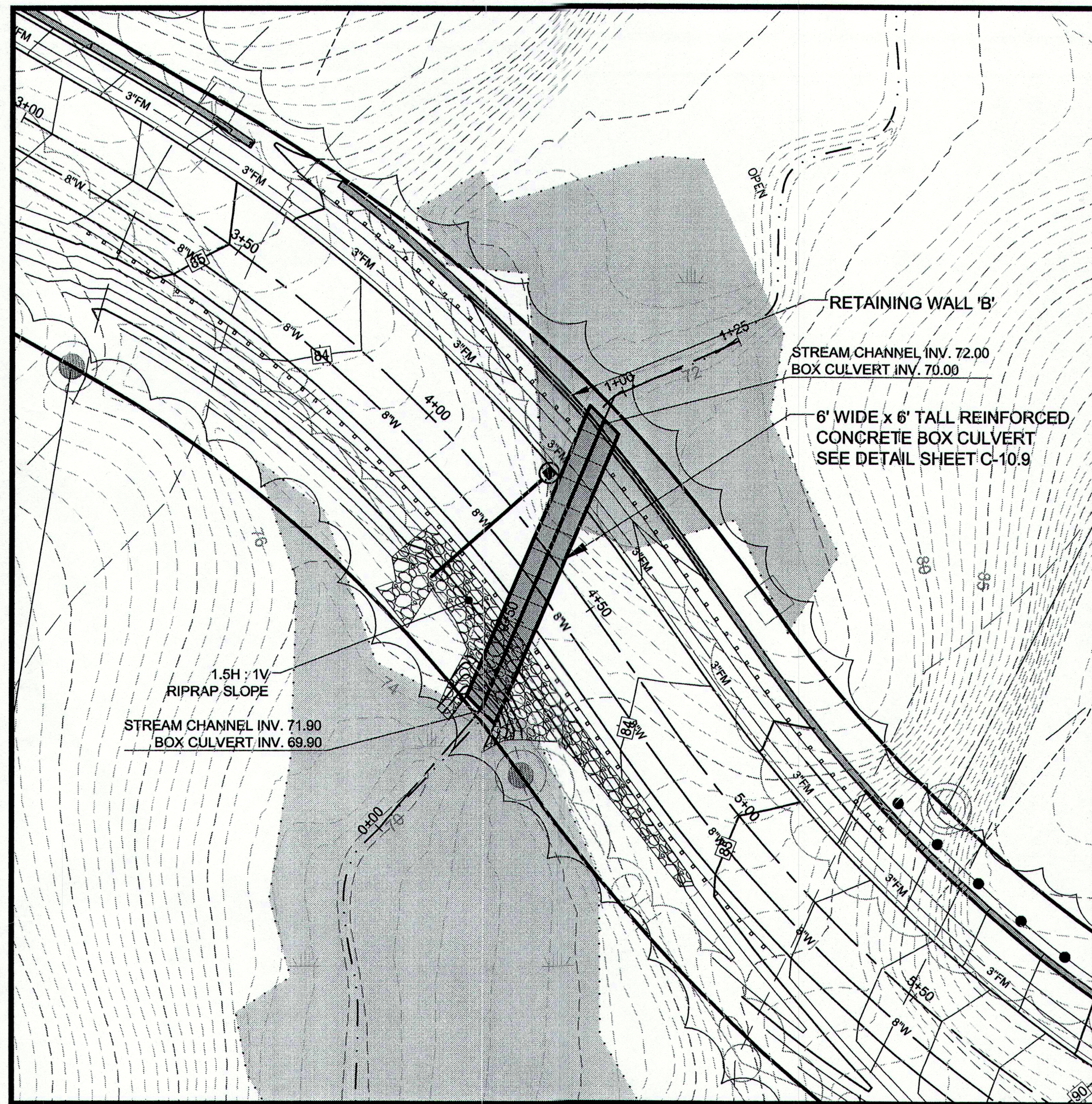
SHEET TITLE
**FILTERRA / STORMTECH
ISOLATOR ROW PLANS & DETAILS**

CLIENT
**VILLAGE GREEN
CUMBERLAND, LLC**

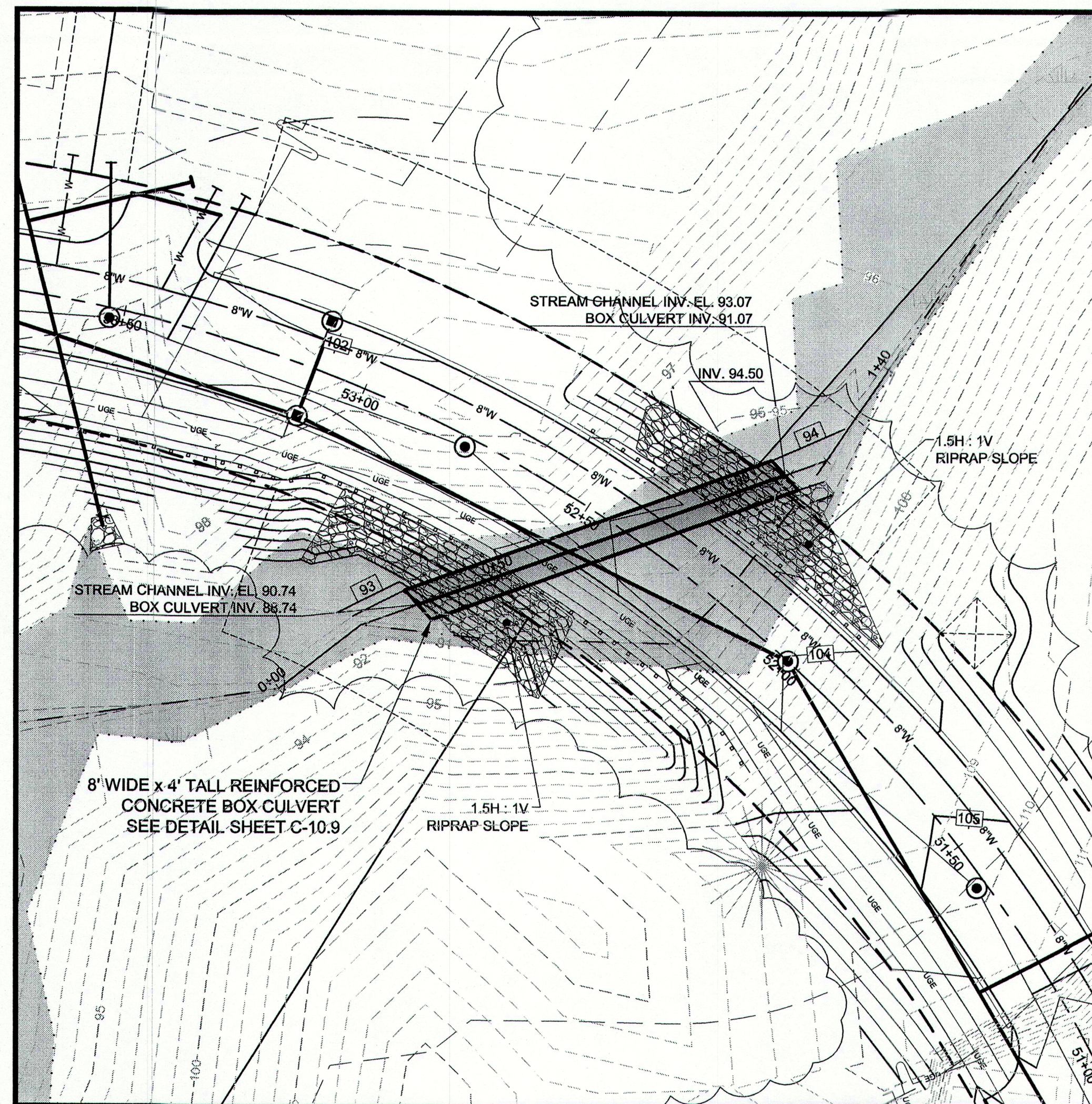
DH DeLUCA-HOFFMAN ASSOCIATES, INC.
778 MAIN STREET, SUITE 8
SOUTH PORTLAND, ME 04106
207.776.1121
WWW.DELUCAHOFFMAN.COM

DRAWN: CDD DATE: MAY 2011
DESIGNED: JAL SCALE: AS NOTED
CHECKED: JAL JOB NO. 2998
FILE NAME: 2998-POND PLAN & SECTIONS
SHEET C-11.1

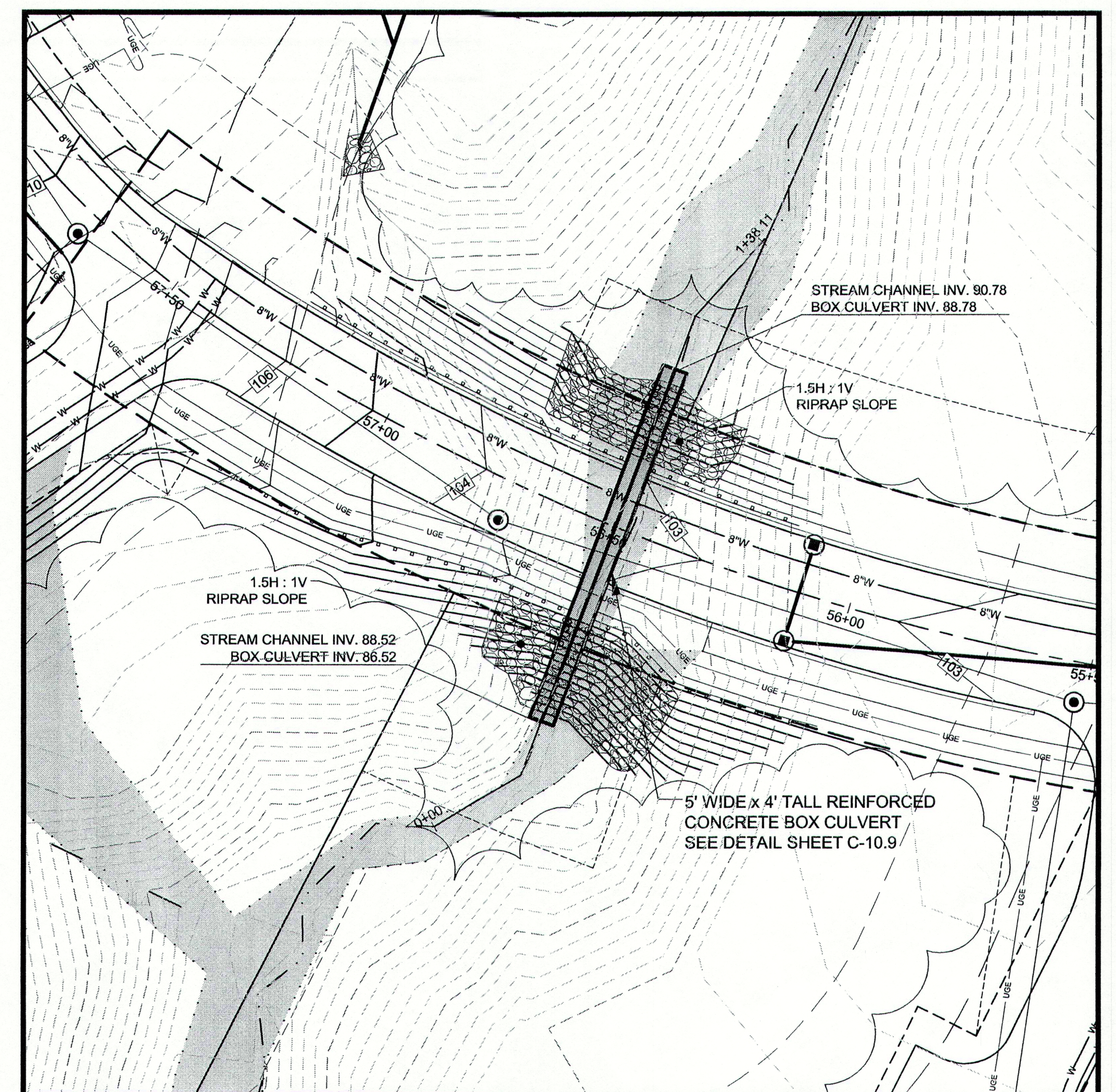
- NOTES:**
1. ALL FILTERRA UNITS ARE TO BE PROVIDED WITH TREE GRATE CASTINGS PER MANUFACTURER'S DETAIL. SHOP DRAWING SUBMITTALS REQUIRED. REFER TO LANDSCAPE PLANS FOR PLANTINGS IN FILTERRA UNITS. MEDIA WITHIN FILTERRA UNITS TO BE PER MANUFACTURER'S SPECIFICATIONS.
 2. THE FILTERRA UNITS SHALL BE DELIVERED TO THE SITE WITH THE ENGINEERED FILTER MEDIA AND PLUMBING FULLY INSTALLED. THE FILTERRA SHALL BE DELIVERED SEALED, PREVENTING DEBRIS AND SEDIMENT FROM ENTERING THE SYSTEM DURING CONSTRUCTION. THE BOARDS ON TOP OF THE LID AND SEALED IN THE UNIT'S THROAT MUST NOT BE REMOVED PRIOR TO "ACTIVATION". THE ACTIVATION OF THE UNIT INCLUDES REMOVAL OF THE INTERNAL WOODEN FORMS AND PROTECTIVE MESH COVER AND INSTALLATION OF PLANT(S) AND MULCH LAYERS AS NECESSARY. ACTIVATION OF THE FILTERRA UNIT IS TO BE PERFORMED ONLY BY THE SUPPLIER (AMERICAST OR AUTHORIZED DEALER). THE ACTIVATION PROCESS SHALL NOT COMMENCE UNTIL THE PROJECT SITE IS FULLY STABILIZED AND CLEANED (FULL LANDSCAPING, GRASS COVER, FINAL PAVING, AND STREET SWEEPING COMPLETED), MINIMIZING THE RISK OF CONTAMINATING THE FILTERRA SYSTEM.
 3. THE INSTALLATION OF THE FILTERRA UNITS AND STORMTECH CHAMBERS SHALL BE IN ACCORDANCE WITH THE LATEST MANUFACTURER INSTALLATION INSTRUCTIONS.
 4. THE CONTRACTOR IS ADVISED TO REVIEW AND UNDERSTAND THE INSTALLATION INSTRUCTIONS PRIOR TO BEGINNING SYSTEM INSTALLATION. CALL 1-888-892-2694 OR VISIT WWW.STORMTECH.COM TO RECEIVE A COPY OF THE LATEST STORMTECH INSTALLATION INSTRUCTIONS.
 5. SEE PLAN AND PROFILE DRAWINGS FOR MANHOLE AND CATCH BASIN RIM INFORMATION AND STORM DRAIN INVERT INFORMATION.
 6. LOW PERMEABILITY CLAY LINER SHALL BE PLACED ABOVE PREPARED SUBGRADE AROUND STORMTECH ISOLATOR ROWS IN 2 - 6" LIFTS TO PREVENT DETAINED STORM WATER FROM MIXING WITH GROUNDWATER. MAXIMUM ALLOWED IN PLACE PERMEABILITY SHALL BE 1 x 10⁻⁶ cm / sec. LINER SHOULD EXTEND UP TO THE TOP OF STONE ELEVATION.



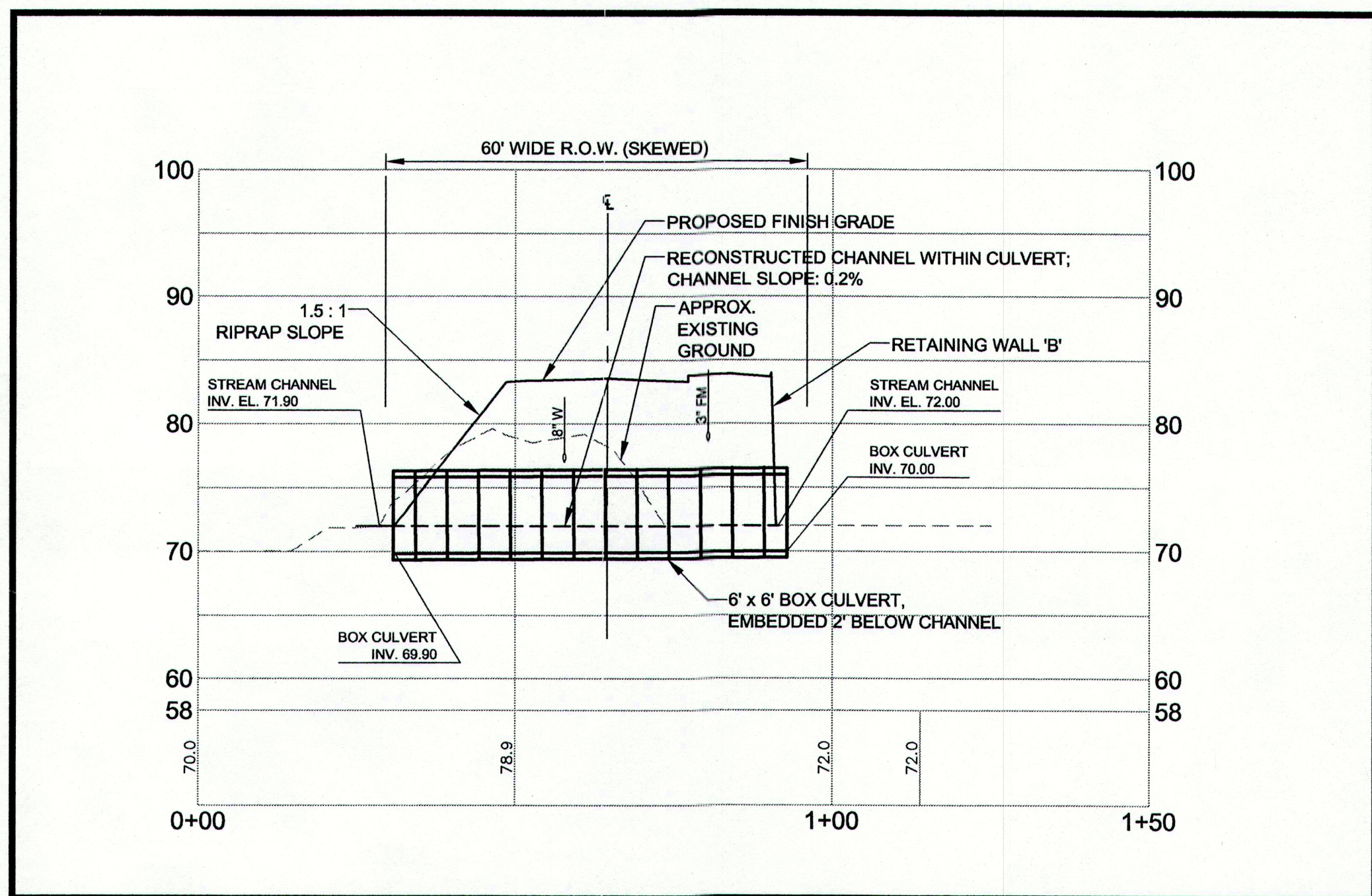
STREAM CROSSING #1 PLAN VIEW
SCALE: 1"=20'



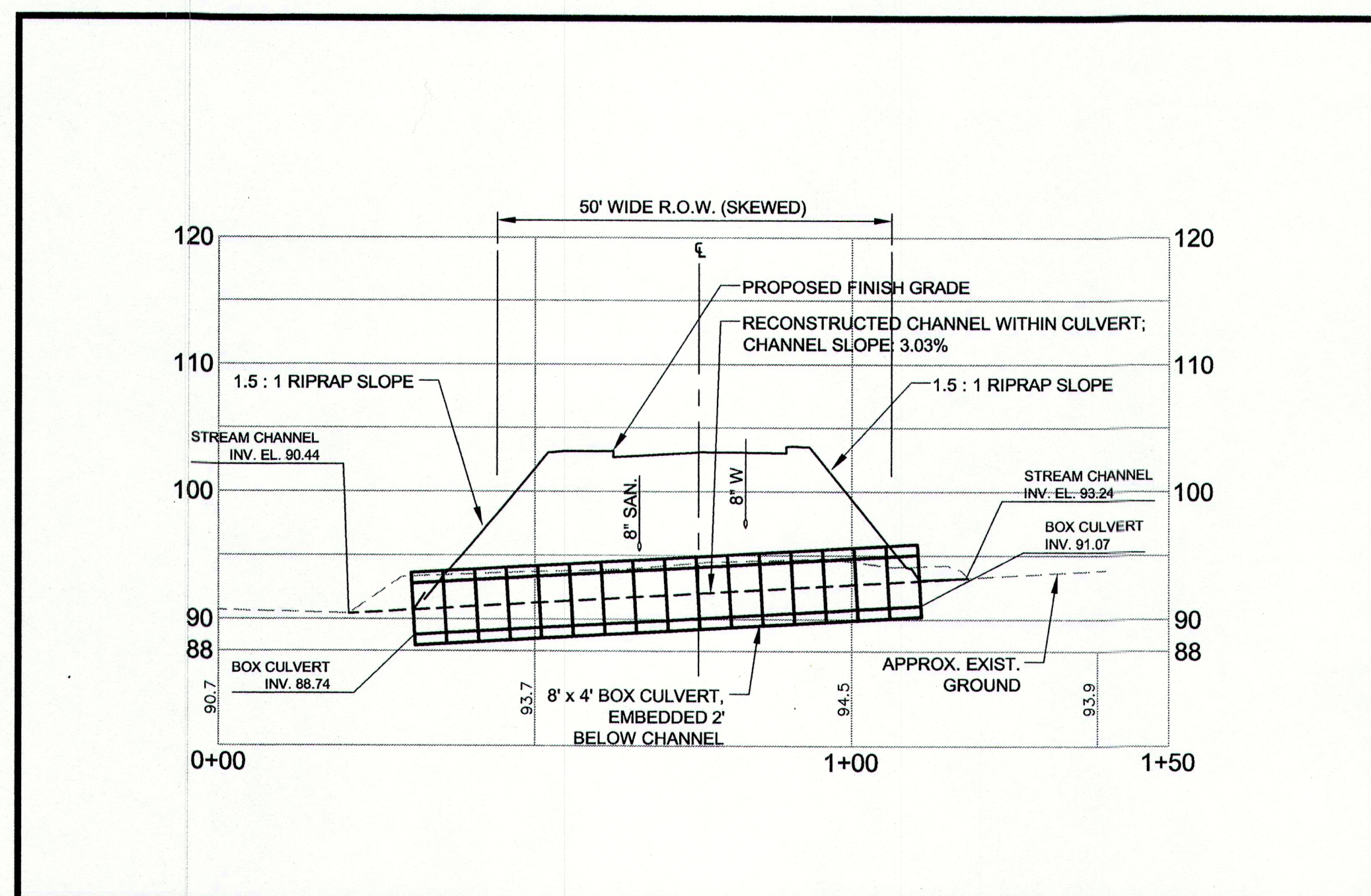
STREAM CROSSING #2 PLAN VIEW
SCALE: 1"=20'



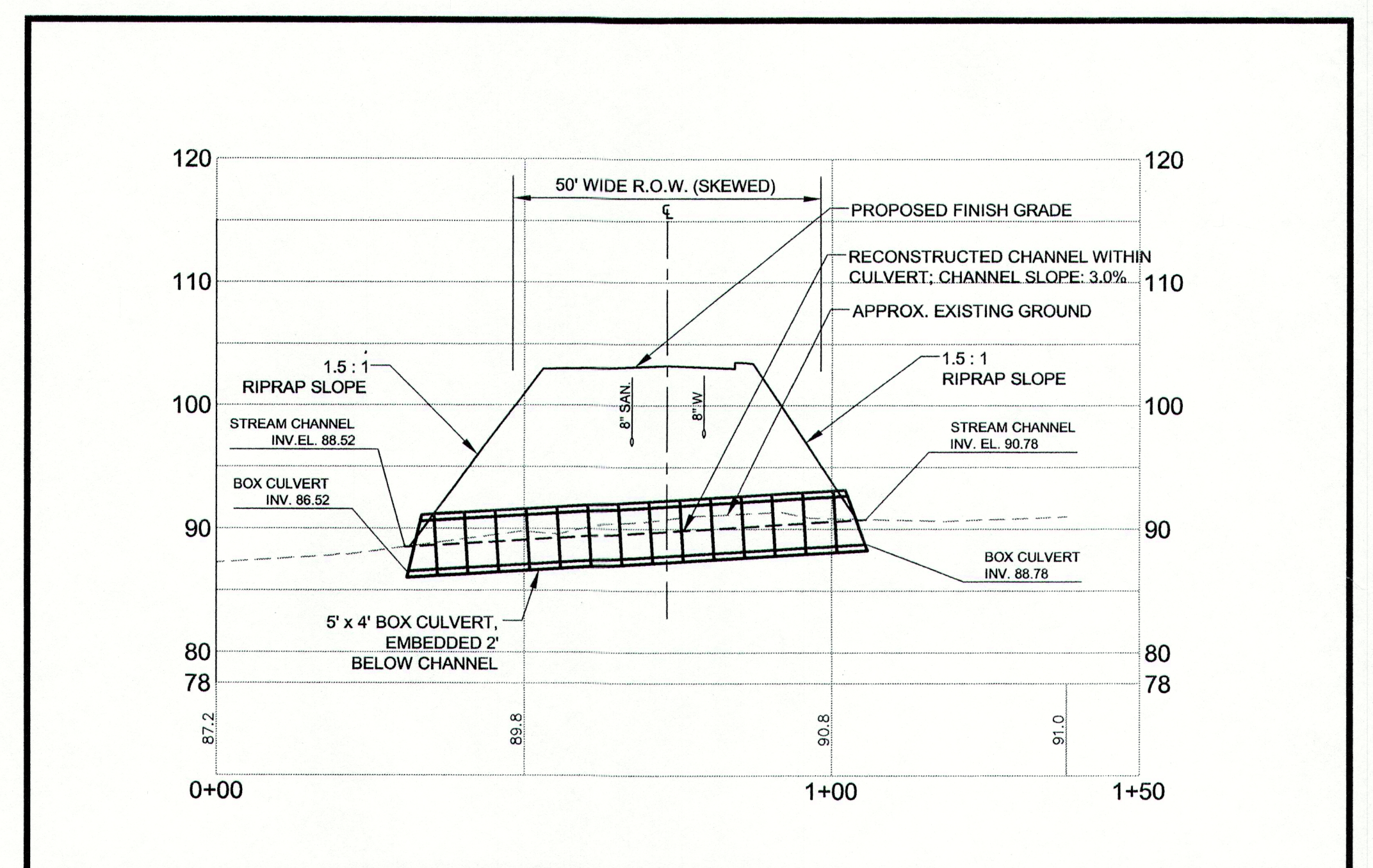
STREAM CROSSING #3 PLAN VIEW
SCALE: 1"=20'





STREAM CROSSING #1 PROFILE VIEW
SCALE: H:1"=20' V:1"=10'

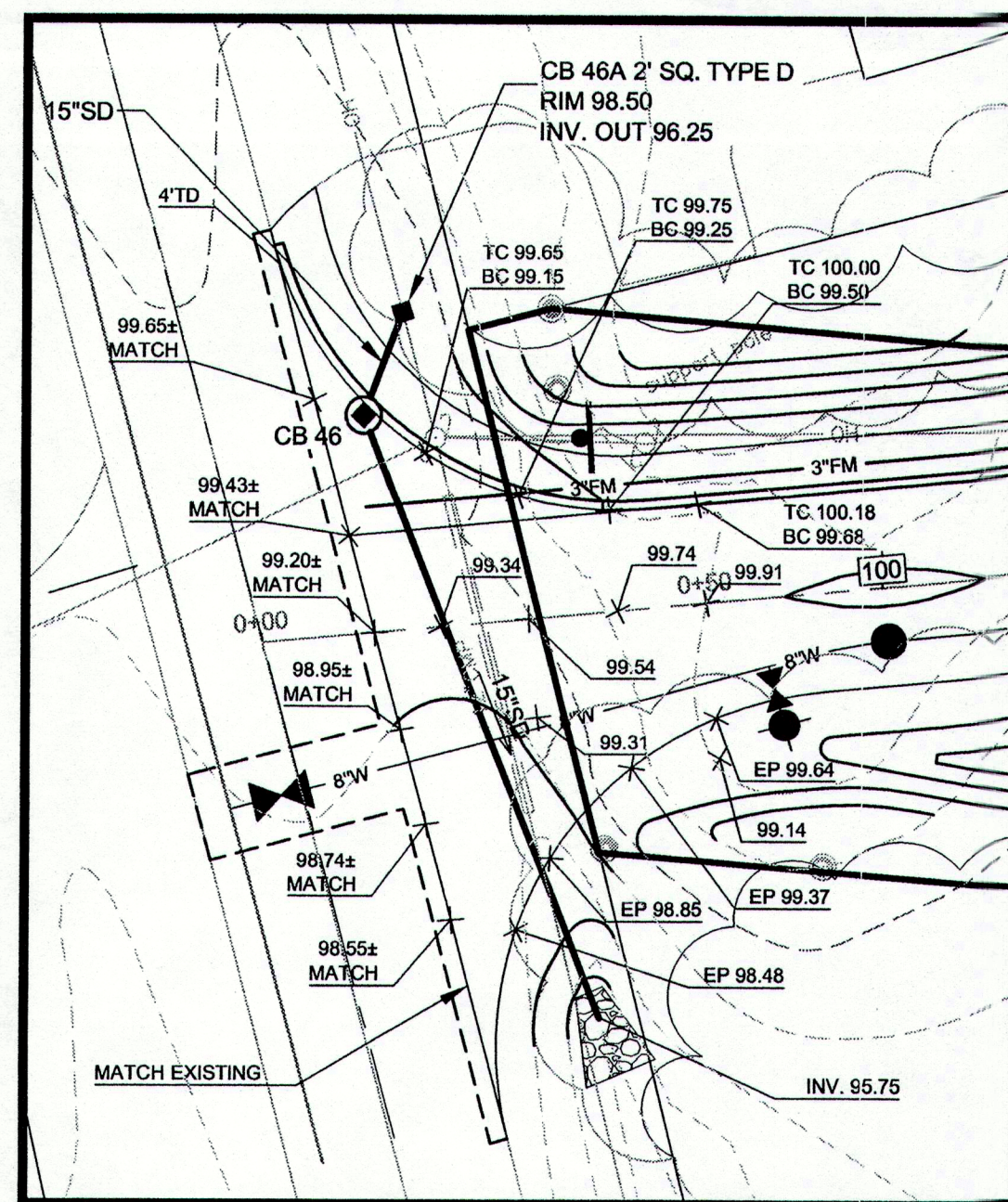


STREAM CROSSING #2 PROFILE VIEW
SCALE: H:1"=20' V:1"=10'



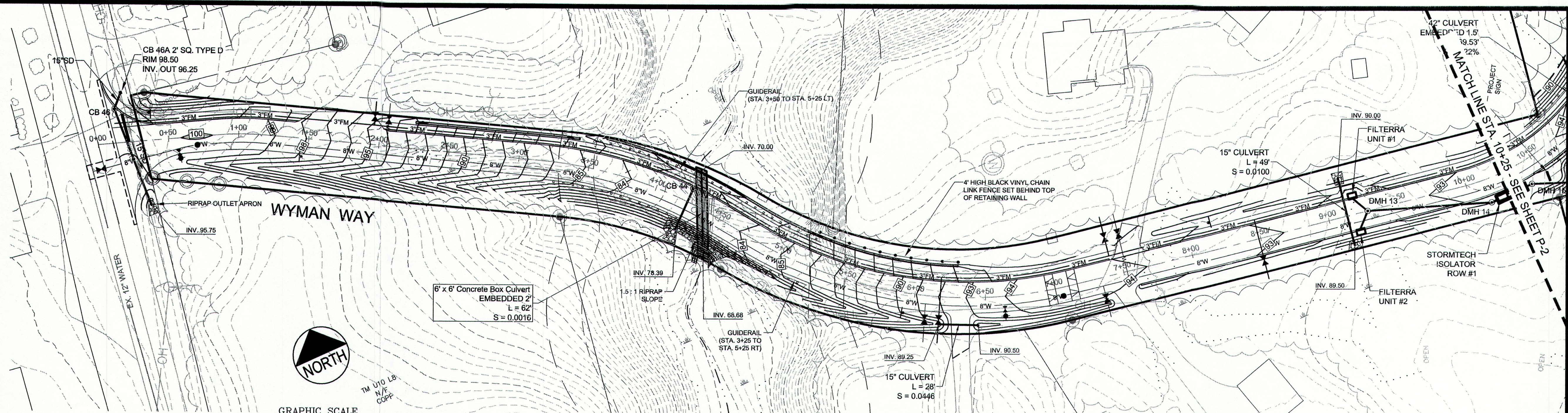
STREAM CROSSING #3 PROFILE VIEW
SCALE: H:1"=20' V:1"=10'

				PROJECT VILLAGE GREEN CUMBERLAND, MAINE	 DeLUCA-HOFFMAN ASSOCIATES, INC. 778 MAIN STREET, SUITE 8 SOUTH PORTLAND, ME 04108 207.775.1121 WWW.DELUCAHOFFMAN.COM	
7	11.28.11	PHASE 1 CONSTRUCTION SET		SHEET TITLE STREAM CROSSING PLAN VIEWS AND PROFILES		DRAWN: CDD DATE: MAY 2011
6	09.13.11	RESUBMITTED TO TOWN				DESIGNED: JAL SCALE: N.T.S.
5	08.01.11	RESUBMITTED TO TOWN				CHECKED: JAL JOB NO. 2998
4	07.22.11	REVISED PER TOWN COMMENTS AND RESUBMITTED				FILE NAME: 2998-DET
3	06.30.11	RESUBMITTED TO TOWN		CLIENT VILLAGE GREEN CUMBERLAND, LLC	SHEET C-11.2	
2	06.21.11	REVISED PER INTERNAL REVIEW				
1	05.31.11	SUBMITTED TO TOWN AND DEP				
REV	DATE	DESCRIPTION	P.E. JOSEPH A. LAVERRIERE LIC. #7417			



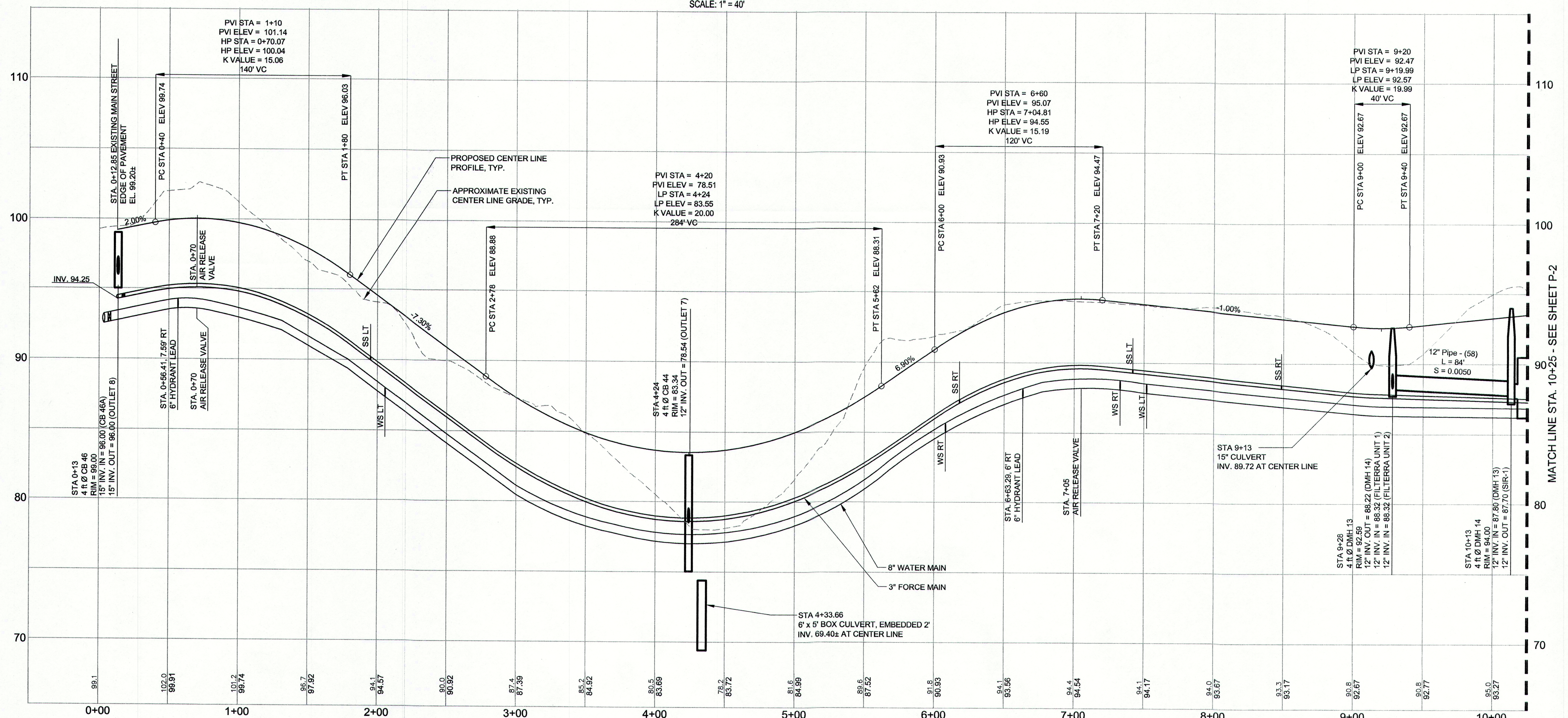
INTERSECTION GRADING DETAIL

SCALE: 1" = 20'



WYMAN WAY PLAN VIEW

SCALE: 1" = 40'

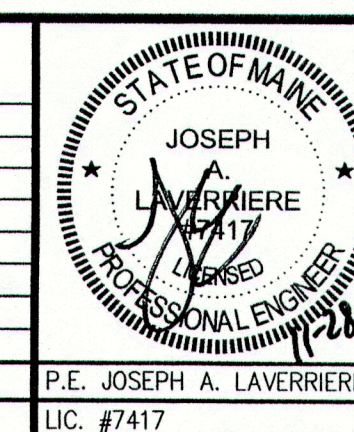


WYMAN WAY PROFILE

SCALE: 1" = 40' HORIZ.
1" = 4' VERT.

LEGEND	
FDS	FOUNDATION DRAIN SERVICE
WS	WATER SERVICE
SS	SEWER SERVICE
RT	RIGHT
LT	LEFT
SIR	STORMTECH ISOLATOR ROW

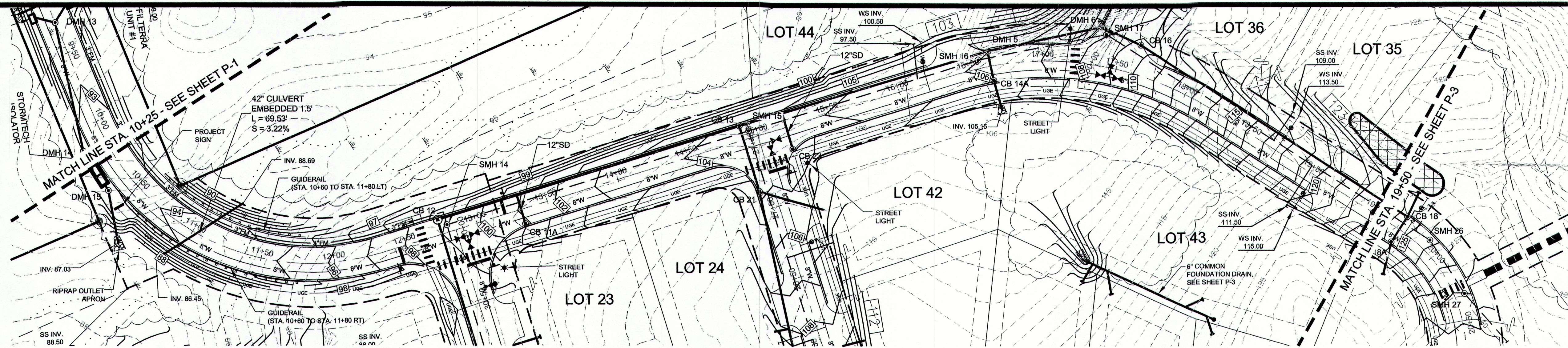
REV	DATE	DESCRIPTION
8	11.28.11	PHASE 1 CONSTRUCTION SET
7	10.07.11	REVISED CULVERT AT MAIN STREET PER MDOT COMMENTS
6	09.13.11	RESUBMITTED TO TOWN
5	08.01.11	RESUBMITTED TO TOWN
4	07.22.11	REVISED PER TOWN COMMENTS AND RESUBMITTED
3	06.30.11	RESUBMITTED TO TOWN
2	06.21.11	REVISED PER INTERNAL REVIEW
1	05.31.11	SUBMITTED TO TOWN AND DEP



PROJECT	VILLAGE GREEN CUMBERLAND, MAINE
SHEET TITLE	WYMAN WAY STA. 0+00 TO STA. 10+25
CLIENT	VILLAGE GREEN CUMBERLAND, LLC

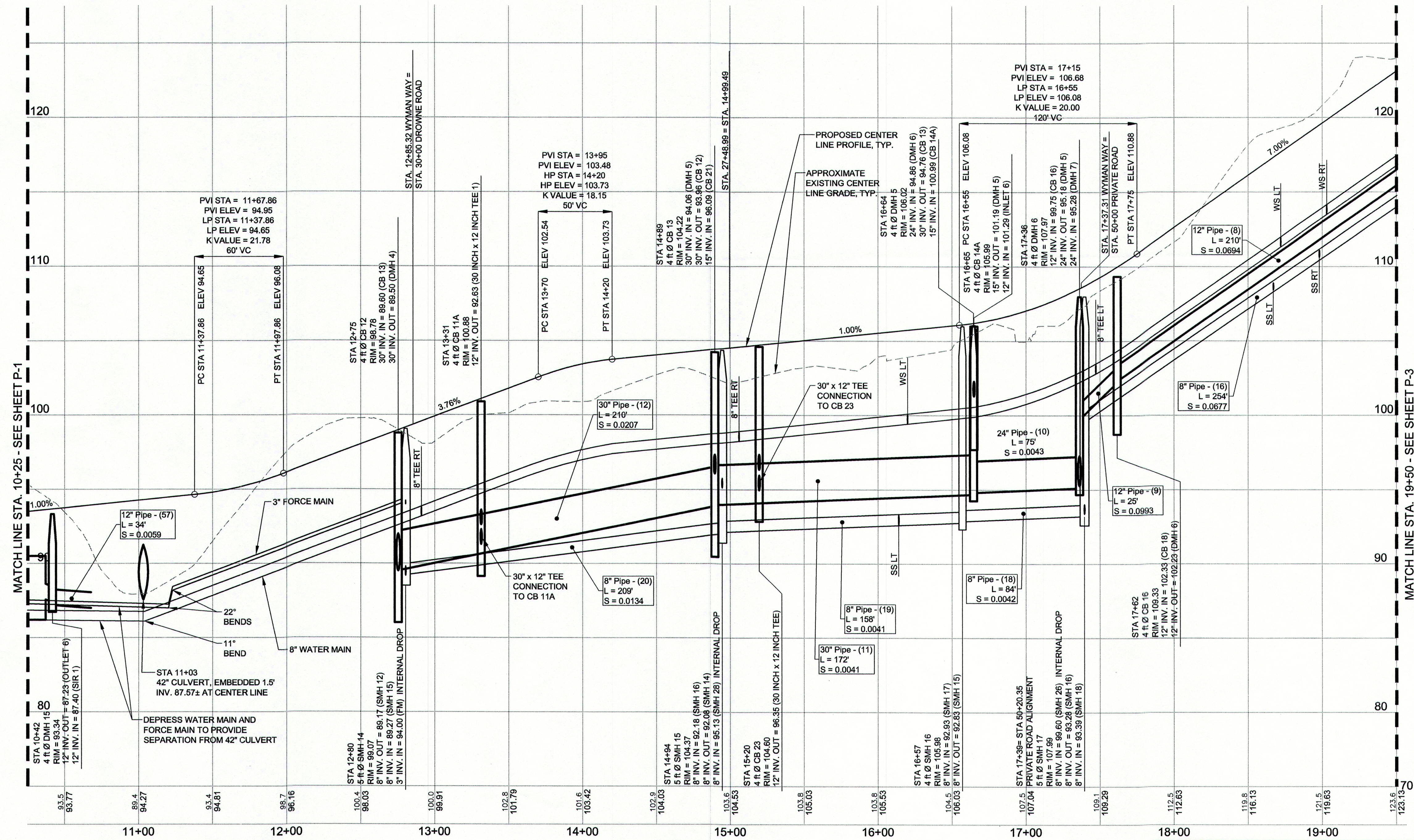
DRAWN:	CDD	DATE:	MAY 2011
DESIGNED:	JAL	SCALE:	AS NOTED
CHECKED:	JAL	JOB NO.	2998
FILE NAME:	2998-PROFILE-ACCESS DRIVE		
SHEET	P-1		

R:\2998 Bateman Cumberland\CADD\CONSTRUCTION SET\DWG\2998-PROFILE-ACCESS DRIVE.dwg, P-2 WYMAN WAY-2, 11/30/2011 3:08:15 PM, adube



WYMAN WAY PLAN VIEW

SCALE: 1" = 40'



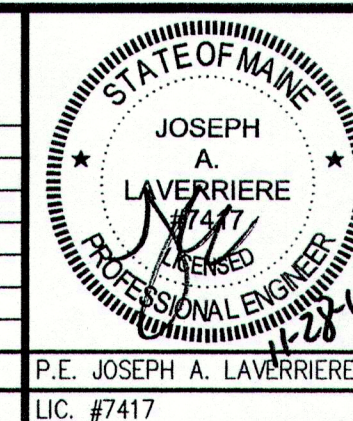
WYMAN WAY PROFILE

SCALE: 1" = 40' HORZ.
1" = 4' VERT.

LEGEND	
FDS	FOUNDATION DRAIN SERVICE
WS	WATER SERVICE
SS	SEWER SERVICE
RT	RIGHT
LT	LEFT
SIR	STORMTECH ISOLATOR ROW

REFER TO SHEETS E-100 AND E-101 FOR DETAILED INFORMATION ON THE UNDERGROUND ELECTRIC, TELEPHONE AND CABLE TELEVISION CONDUIT SYSTEM. THE PRIMARY LOCATION OF THE UNDERGROUND CONDUIT SYSTEM SHALL BE BENEATH THE PEDESTRIAN SIDEWALKS AS SHOWN ON THIS SHEET.

REV	DATE	DESCRIPTION
7	11.28.11	PHASE 1 CONSTRUCTION SET
6	09.13.11	RESUBMITTED TO TOWN
5	08.01.11	RESUBMITTED TO TOWN
4	07.22.11	REVISED PER TOWN COMMENTS AND RESUBMITTED
3	06.30.11	RESUBMITTED TO TOWN
2	06.21.11	REVISED PER INTERNAL REVIEW
1	05.31.11	SUBMITTED TO TOWN AND DEP



PROJECT
VILLAGE GREEN
CUMBERLAND, MAINE

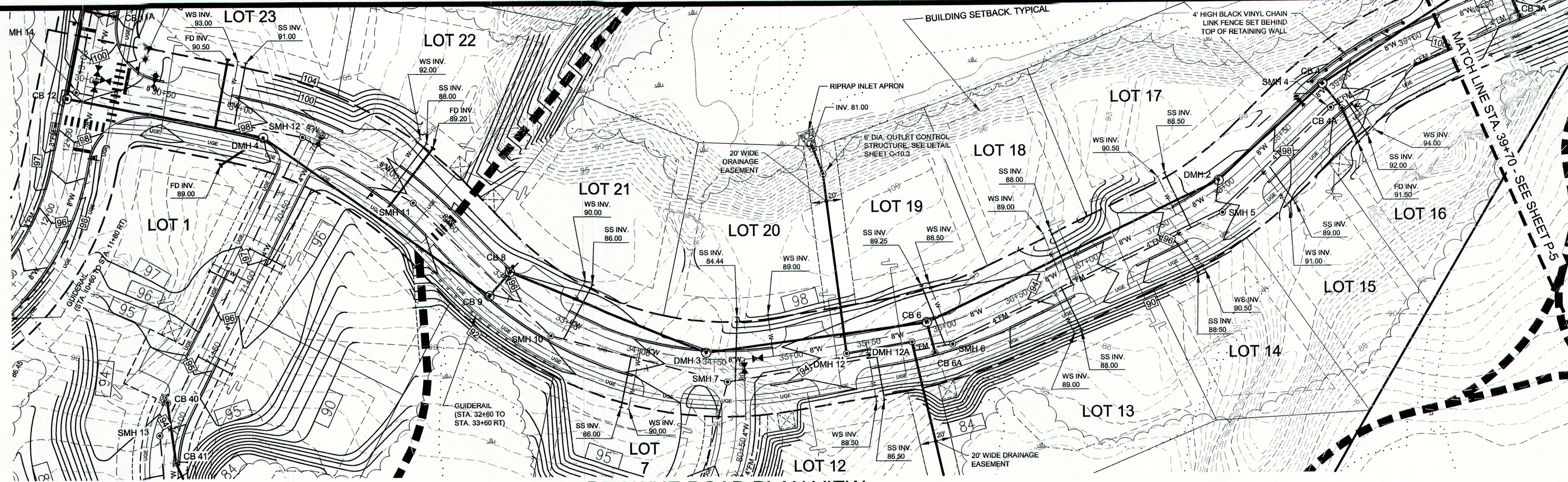
SHEET TITLE
WYMAN WAY
STA. 10+25 TO STA. 19+50

CLIENT
VILLAGE GREEN
CUMBERLAND, LLC

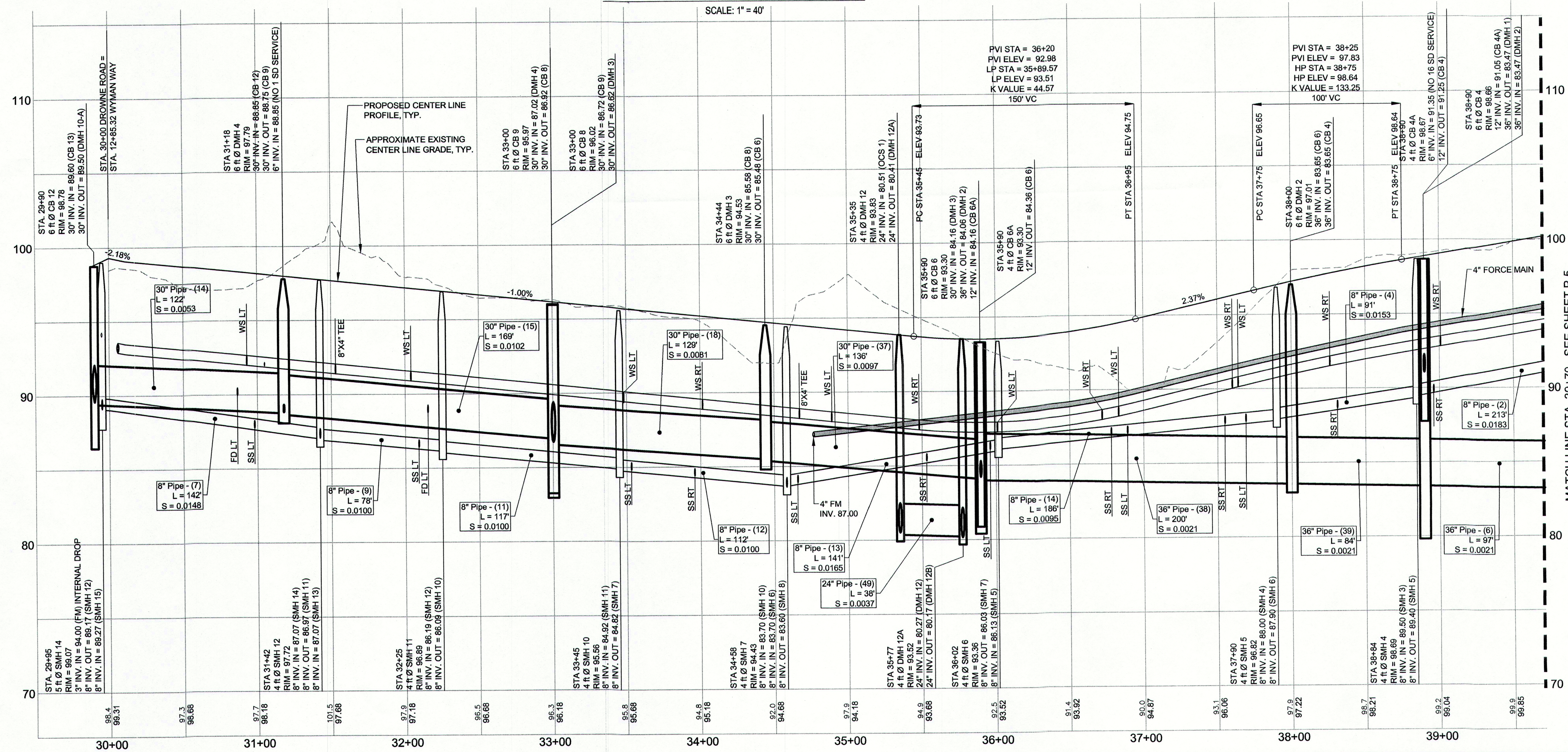
DeLUCA-HOFFMAN
ASSOCIATES, INC.
778 MAIN STREET, SUITE 8
SOUTH PORTLAND, ME 04106
207.775.1121
WWW.DELUCAHOFFMAN.COM

DRAWN: CDD DATE: MAY 2011
DESIGNED: JAL SCALE: AS NOTED
CHECKED: JAL JOB NO. 2998
FILE NAME: 2998-PROFILE-ACCESS DRIVE
SHEET P-2

R:\2998 Bateman Cumberland\CADD\CONSTRUCTION SET\DWG\2998-PROFILE-ACCESS DRIVE.dwg, P-4 DROWNE ROAD-1, 11/30/2011 9:51:02 AM, cadbe



DROWNE ROAD PLAN VIEW



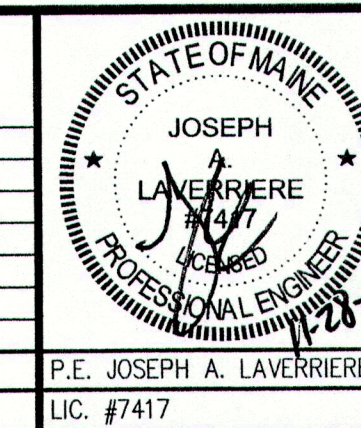
DROWNE ROAD PROFILE

SCALE: 1" = 40' HORIZ.
1" = 4' VERT.

REFER TO SHEETS E-100 AND E-101 FOR
DETAILED INFORMATION ON THE
UNDERGROUND ELECTRIC, TELEPHONE
AND CABLE TELEVISION CONDUIT SYSTEM.
THE PRIMARY LOCATION OF THE
UNDERGROUND CONDUIT SYSTEM SHALL
BE BENEATH THE PEDESTRIAN SIDEWALKS
AS SHOWN ON THIS SHEET.

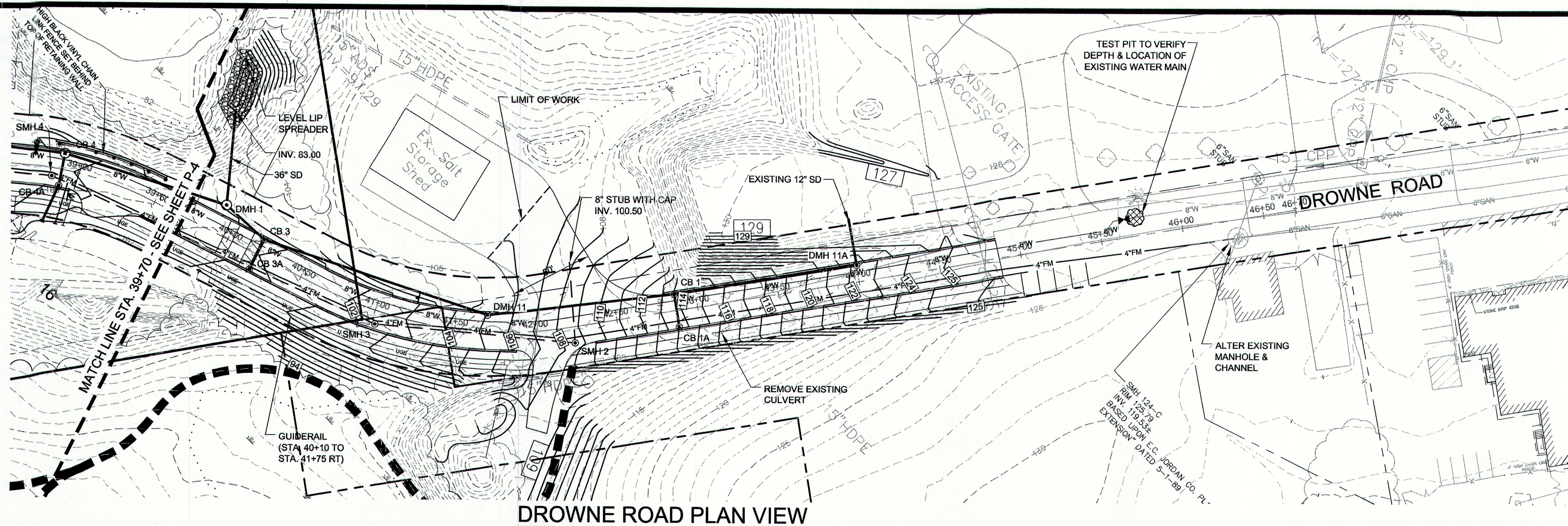
LEGEND	
FDS	FOUNDATION DRAIN SERVICE
WS	WATER SERVICE
SS	SEWER SERVICE
RT	RIGHT
LT	LEFT

REV	DATE	DESCRIPTION
7	11.28.11	PHASE 1 CONSTRUCTION SET
6	09.13.11	RESUBMITTED TO TOWN
5	08.01.11	RESUBMITTED TO TOWN
4	07.22.11	REVISED PER TOWN COMMENTS AND RESUBMITTED
3	06.30.11	RESUBMITTED TO TOWN
2	06.21.11	REVISED PER INTERNAL REVIEW
1	05.31.11	SUBMITTED TO TOWN AND DEP
REV	DATE	DESCRIPTION

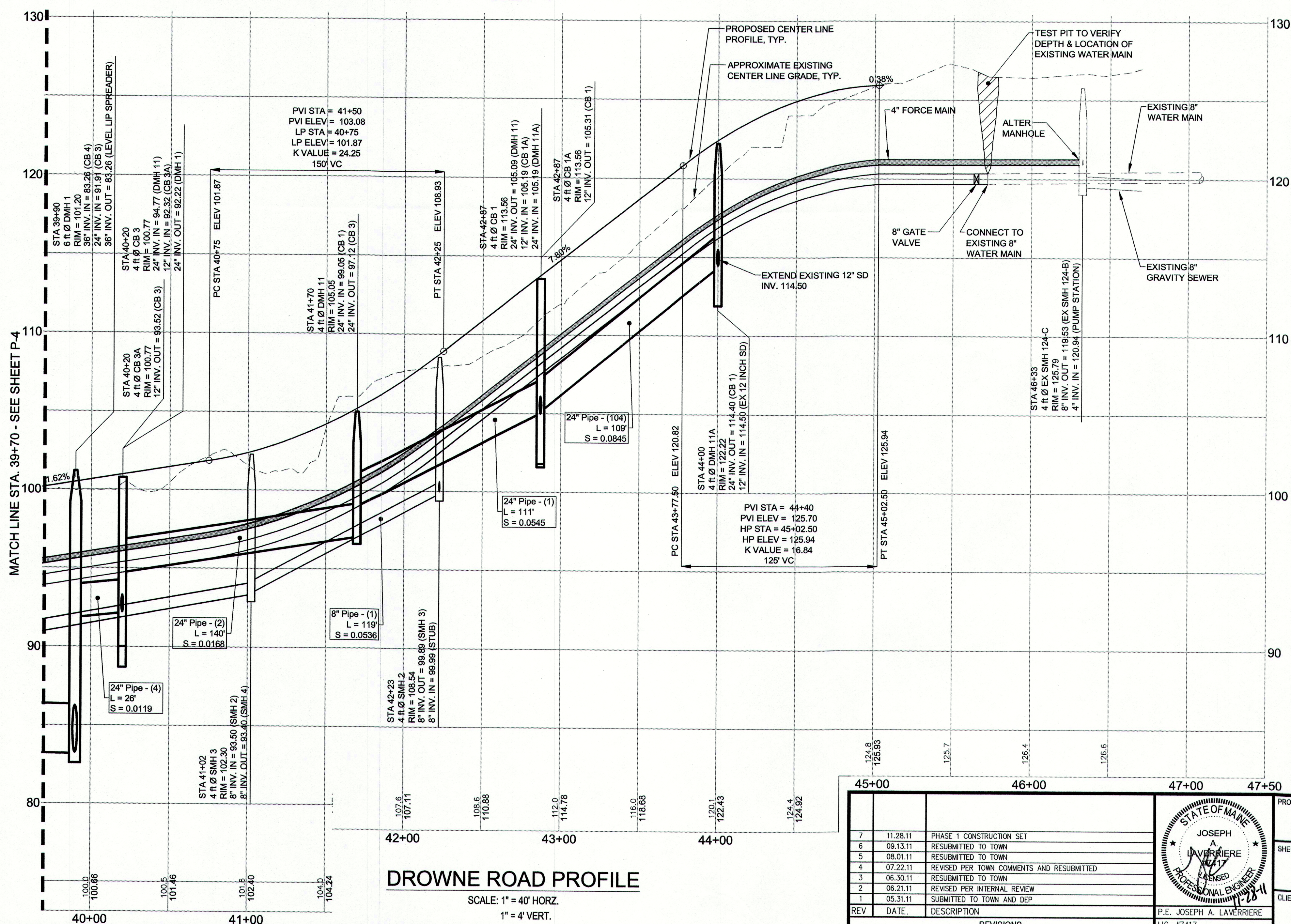


PROJECT	VILLAGE GREEN CUMBERLAND, MAINE
SHEET TITLE	DROWNE ROAD STA. 30+00 TO STA. 39+70
CLIENT	VILLAGE GREEN CUMBERLAND, LLC

DRAWN:	CDD	DATE:	MAY 2011
DESIGNED:	JAL	SCALE:	AS NOTED
CHECKED:	JAL	JOB NO.	2998
FILE NAME:	2998-PROFILE-ACCESS DRIVE		
SHEET	P-4		



DROWNE ROAD PLAN VIEW
SCALE: 1" = 40'

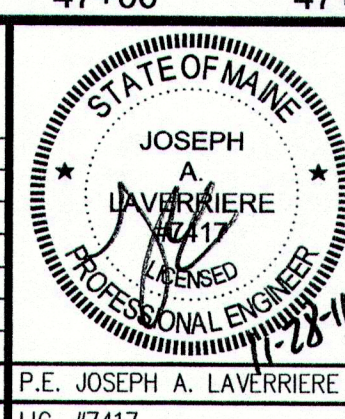


DROWNE ROAD PROFILE
SCALE: 1" = 40' HORIZ.
1" = 4' VERT.

LEGEND	
FDS	FOUNDATION DRAIN SERVICE
WS	WATER SERVICE
SS	SEWER SERVICE
RT	RIGHT
LT	LEFT

REFER TO SHEETS E-100 AND E-101 FOR DETAILED INFORMATION ON THE UNDERGROUND ELECTRIC, TELEPHONE AND CABLE TELEVISION CONDUIT SYSTEM. THE PRIMARY LOCATION OF THE UNDERGROUND CONDUIT SYSTEM SHALL BE BENEATH THE PEDESTRIAN SIDEWALKS AS SHOWN ON THIS SHEET.

REV	DATE	DESCRIPTION
7	11.28.11	PHASE 1 CONSTRUCTION SET
6	09.13.11	RESUBMITTED TO TOWN
5	08.01.11	RESUBMITTED TO TOWN
4	07.22.11	REVISED PER TOWN COMMENTS AND RESUBMITTED
3	06.30.11	RESUBMITTED TO TOWN
2	06.21.11	REVISED PER INTERNAL REVIEW
1	05.31.11	SUBMITTED TO TOWN AND DEP



PROJECT
**VILLAGE GREEN
CUMBERLAND, MAINE**

SHEET TITLE
**DROWNE ROAD
STA. 39+70 TO STA. 48+00**

CLIENT
**VILLAGE GREEN
CUMBERLAND, LLC**

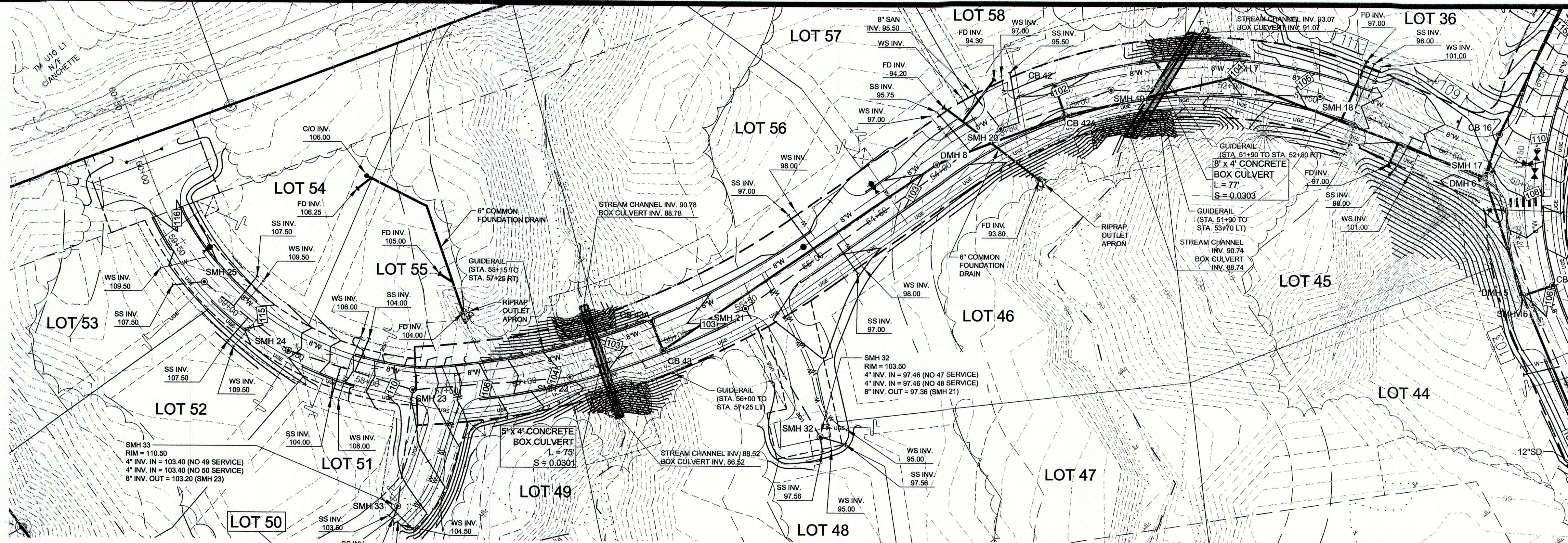
DeLUCA-HOFFMAN ASSOCIATES, INC.
778 MAIN STREET, SUITE 8
SOUTH PORTLAND, ME 04106
207.775.1121
WWW.DELUCAHOFFMAN.COM

DRAWN: CDD DATE: MAY 2011
DESIGNED: JAL SCALE: AS NOTED
CHECKED: JAL JOB NO. 2998
FILE NAME: 2998-PROFILE-ACCESS DRIVE
SHEET **P-5**

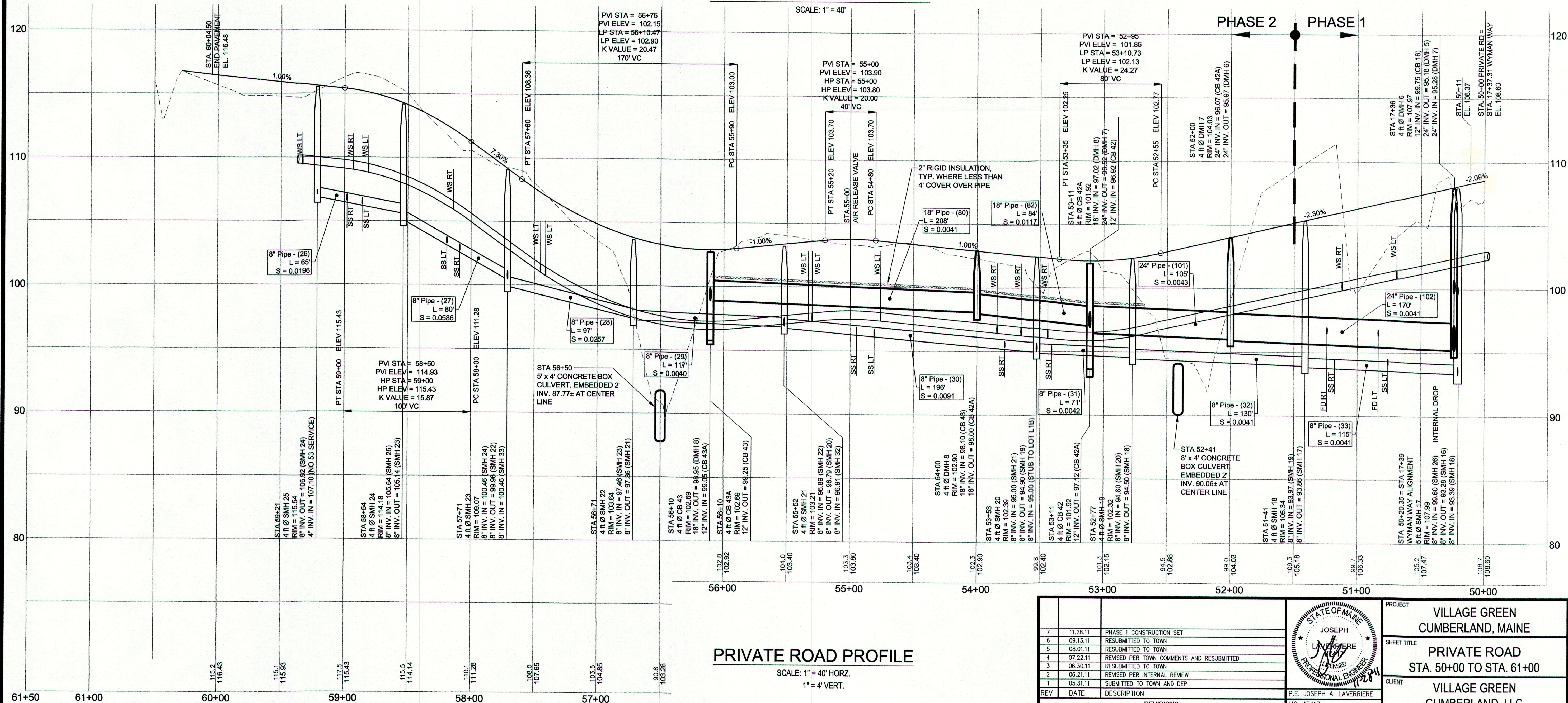
R:\2998 Bateman Cumberland\CADD\CONSTRUCTION SET\DWG\2998-PROFILE-ACCESS DRIVE.dwg, P-6 PRIVATE ROAD, 11/30/2011 3:32:26 PM, cdube

LEGEND	
FDS	FOUNDATION DRAIN SERVICE
WS	WATER SERVICE
SS	SEWER SERVICE
RT	RIGHT
LT	LEFT
SIR	STORMTECH ISOLATOR ROW

REFER TO SHEETS E-100 AND E-101 FOR DETAILED INFORMATION ON THE UNDERGROUND ELECTRIC, TELEPHONE AND CABLE TELEVISION CONDUIT SYSTEM. THE PRIMARY LOCATION OF THE UNDERGROUND CONDUIT SYSTEM SHALL BE BENEATH THE PEDESTRIAN SIDEWALKS AS SHOWN ON THIS SHEET.



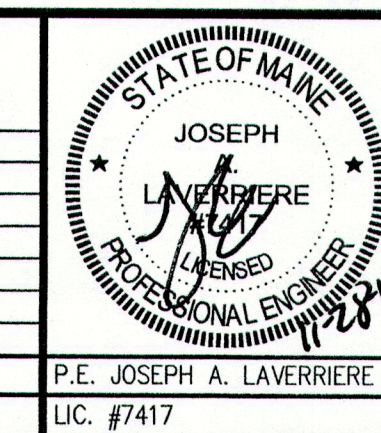
PRIVATE ROAD PLAN VIEW



PRIVATE ROAD PROFILE

SCALE: 1" = 40' HORIZ.
1" = 4' VERT.

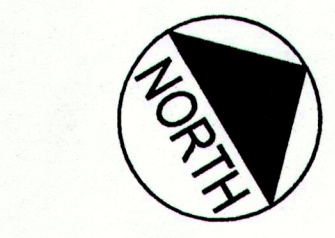
REV	DATE	DESCRIPTION
7	11.28.11	PHASE 1 CONSTRUCTION SET
6	09.13.11	RESUBMITTED TO TOWN
5	08.01.11	RESUBMITTED TO TOWN
4	07.22.11	REVISED PER TOWN COMMENTS AND RESUBMITTED
3	06.30.11	RESUBMITTED TO TOWN
2	06.21.11	REVISED PER INTERNAL REVIEW
1	05.31.11	SUBMITTED TO TOWN AND DEP



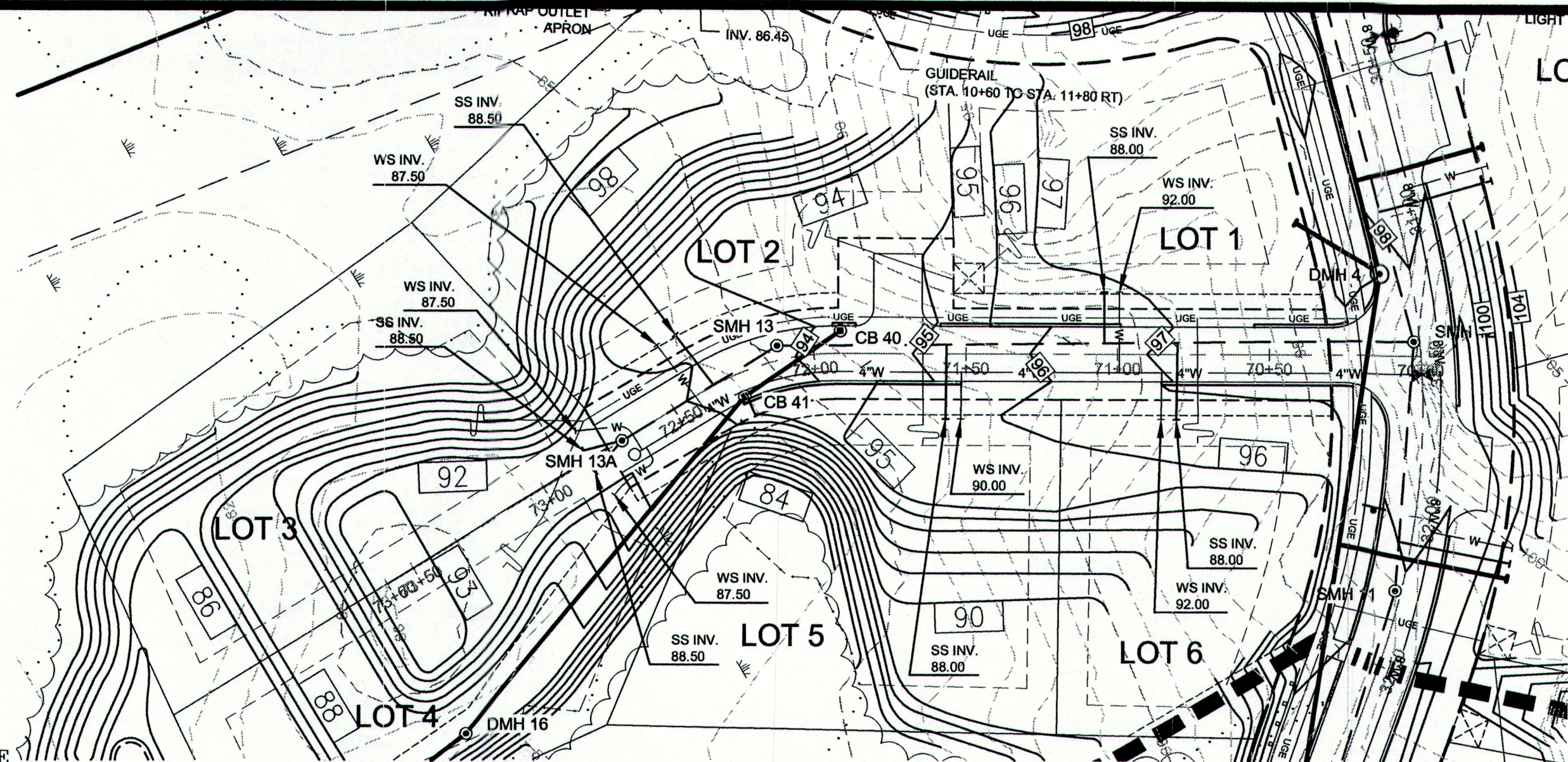
PROJECT	VILLAGE GREEN CUMBERLAND, MAINE
SHEET TITLE	PRIVATE ROAD STA. 50+00 TO STA. 61+00
CLIENT	VILLAGE GREEN CUMBERLAND, LLC

DESIGNED:	JAL	DATE:	MAY 2011
CHECKED:	JAL	SCALE:	AS NOTED
FILE NAME:	2998-PROFILE-ACCESS DRIVE		
SHEET	P-6		

R:\2998 Bateman Cumberland\CADD\CONSTRUCTION SET\DWG\2998-PROFILE-ACCESS DRIVE.dwg, P-7 DRIVES 1 AND 2, 11/30/2011 3:11:57 PM, cdahe

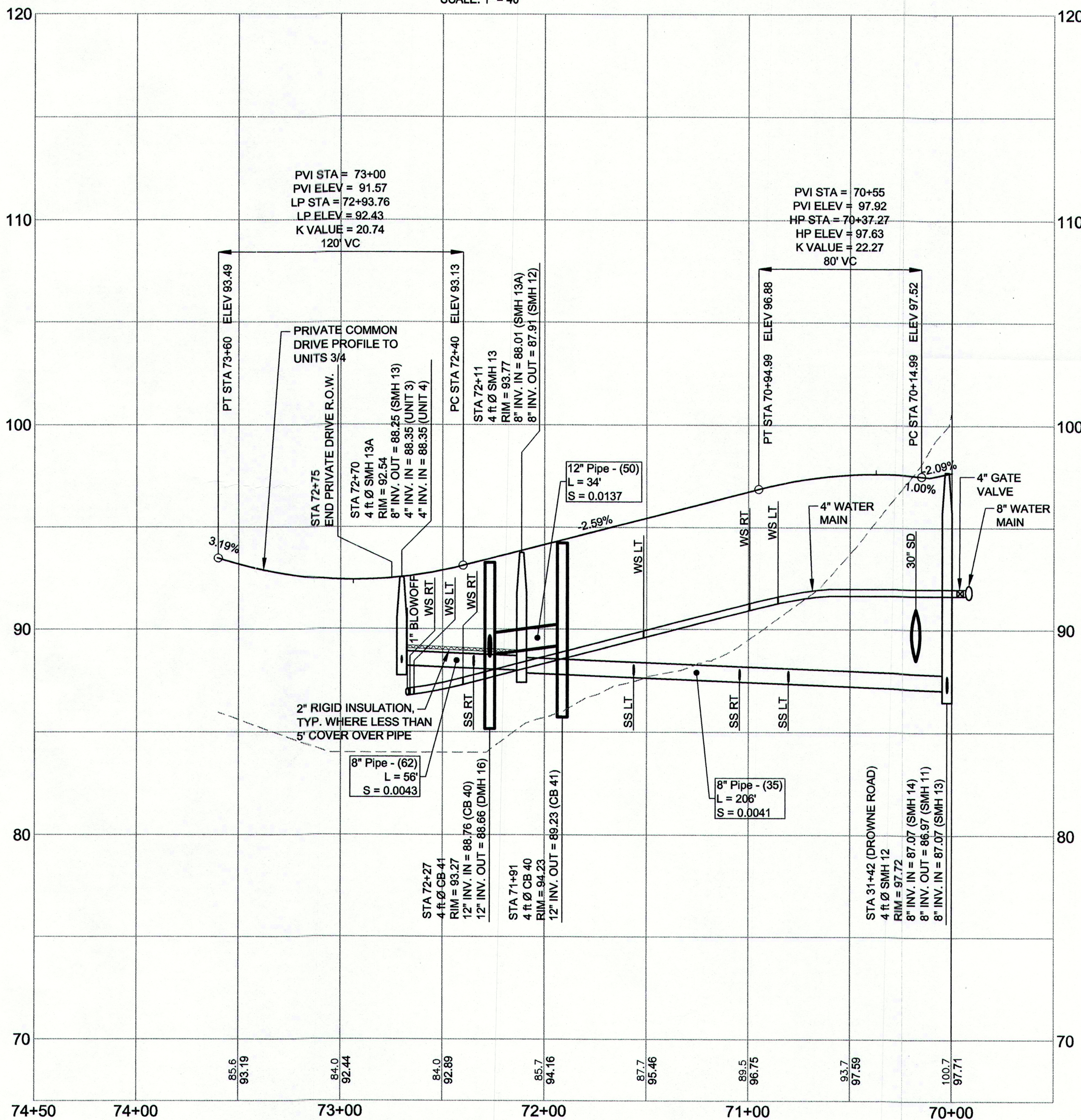


GRAPHIC SCALE
1 inch = 40 ft.



PRIVATE DRIVE 1 PLAN VIEW

SCALE: 1" = 40'

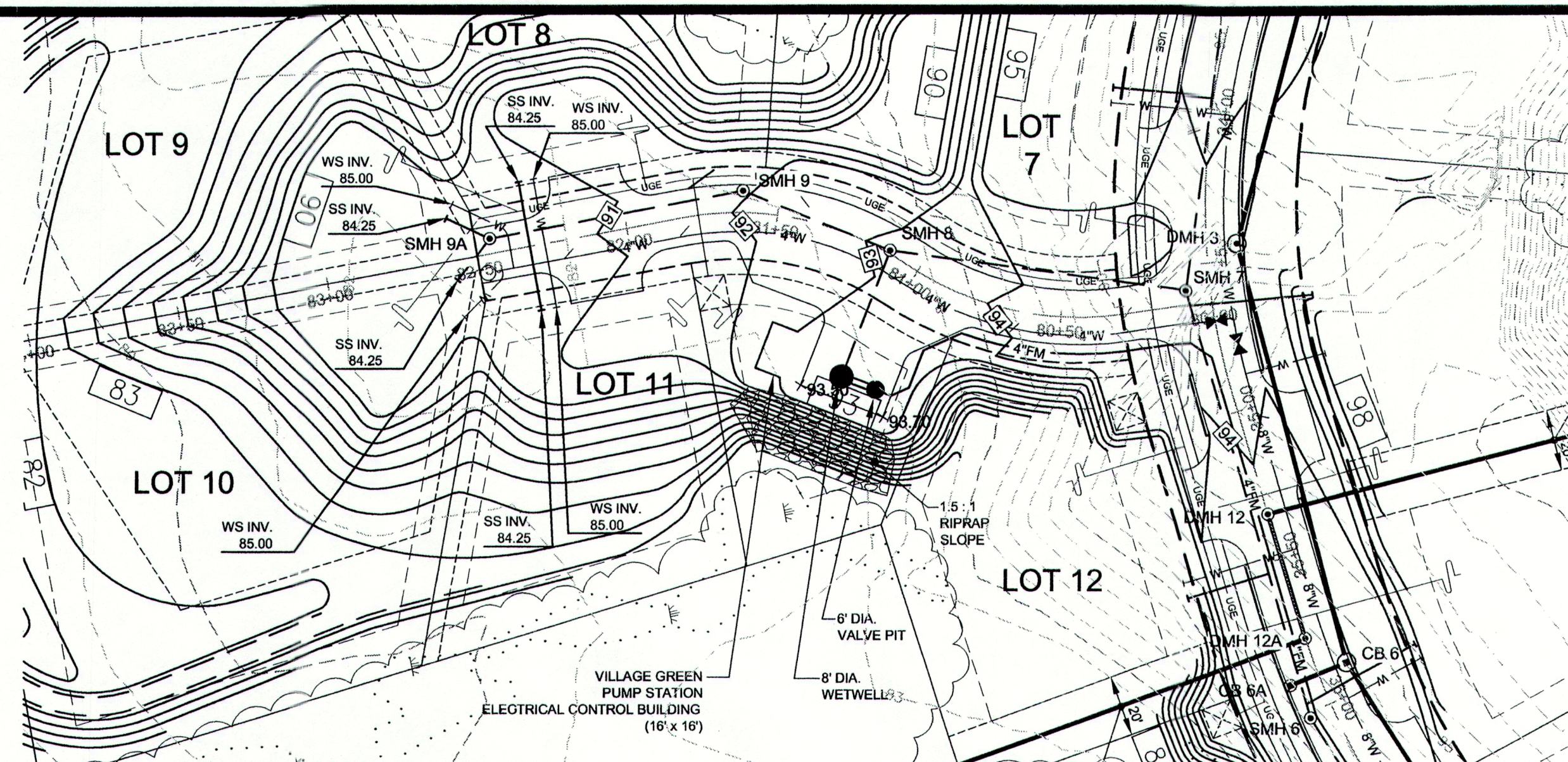


PRIVATE DRIVE 1 PROFILE

SCALE: 1" = 40' HORIZ.
1" = 4' VERT.

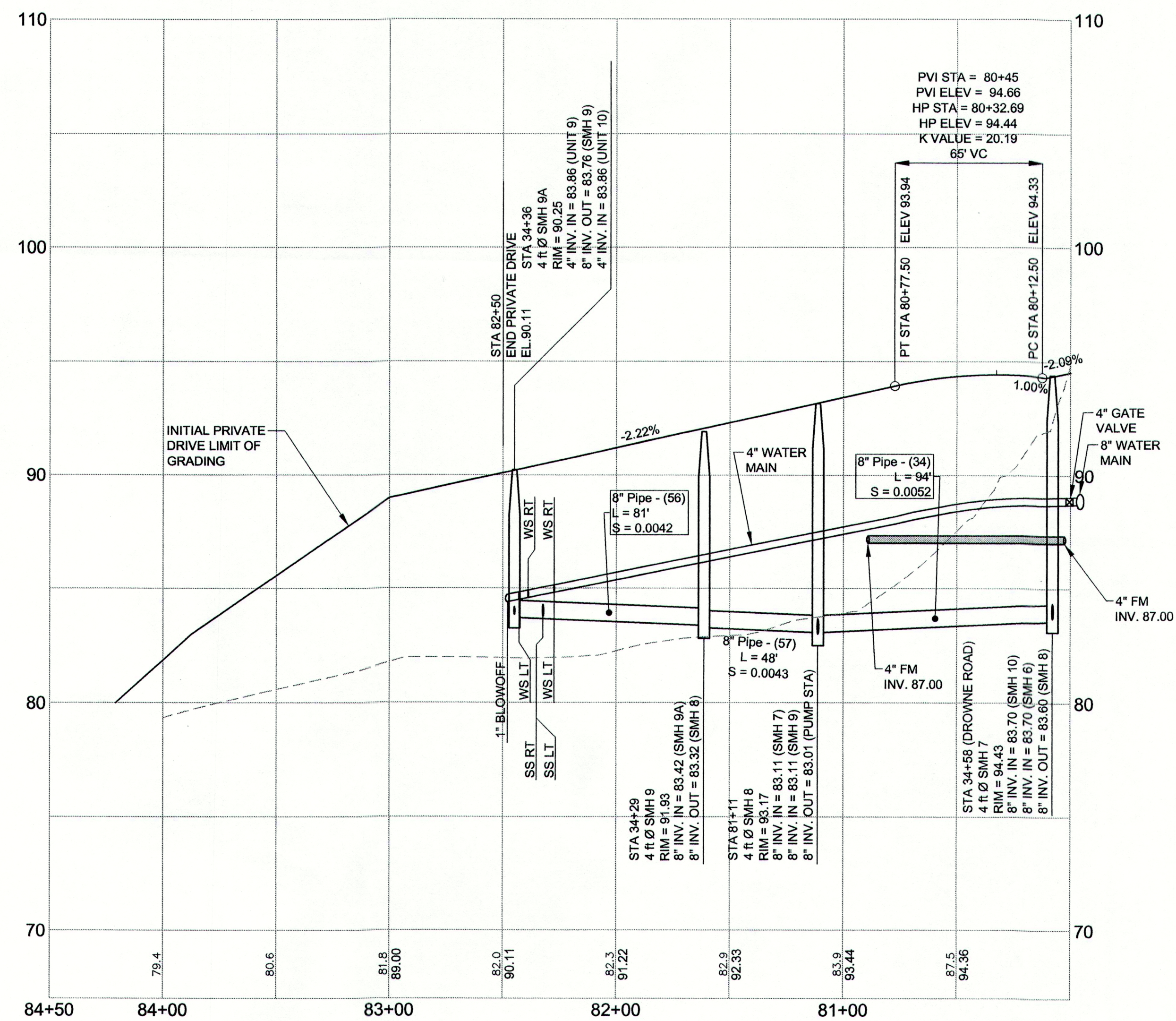


GRAPHIC SCALE
1 inch = 40 ft.



PRIVATE DRIVE 2 PLAN VIEW

SCALE: 1" = 40'



PRIVATE DRIVE 2 PROFILE

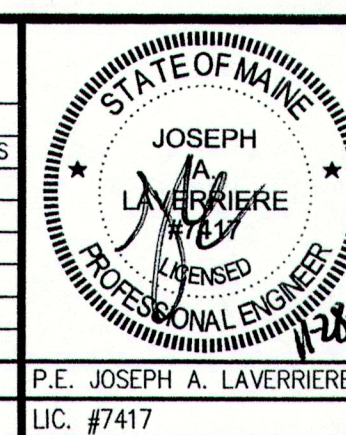
SCALE: 1" = 40' HORIZ.
1" = 4' VERT.

LEGEND

FDS FOUNDATION DRAIN SERVICE
WS WATER SERVICE
SS SEWER SERVICE
RT RIGHT
LT LEFT

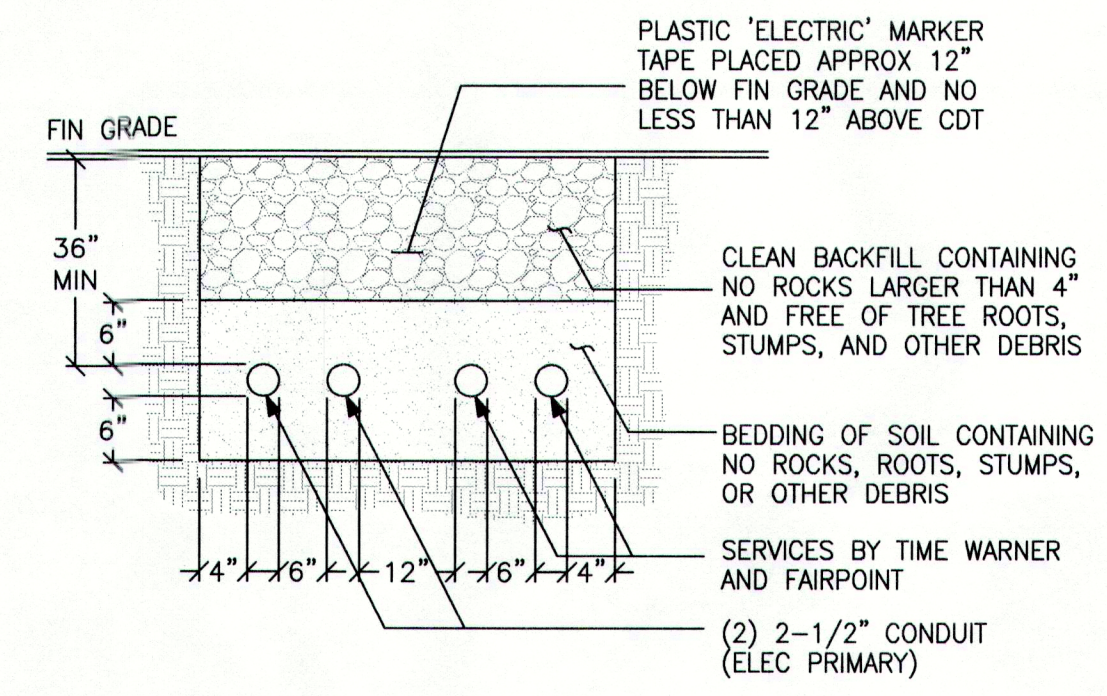
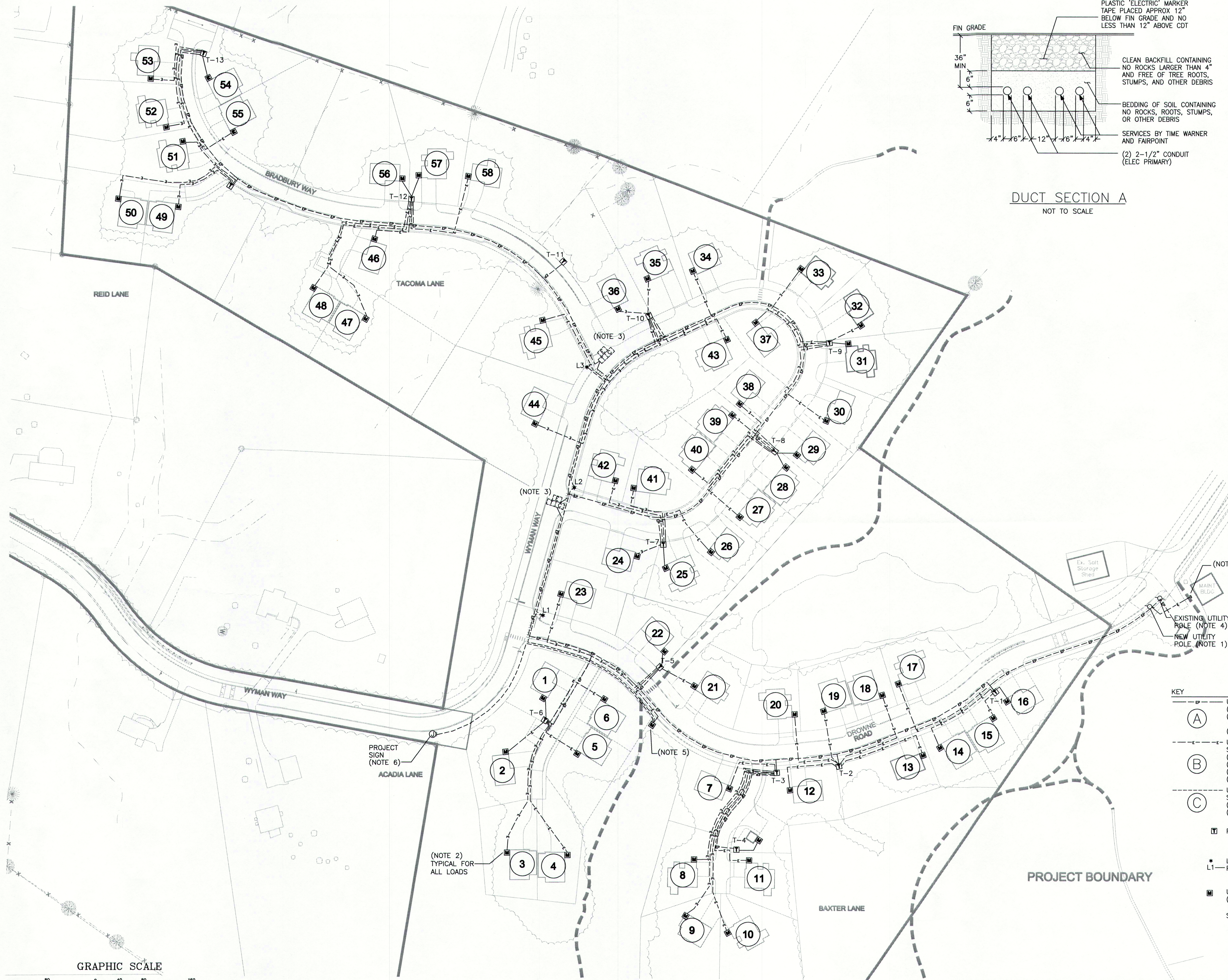
REFER TO SHEETS E-100 AND E-101 FOR
DETAILED INFORMATION ON THE
UNDERGROUND ELECTRIC, TELEPHONE
AND CABLE TELEVISION CONDUIT SYSTEM.
THE PRIMARY LOCATION OF THE
UNDERGROUND CONDUIT SYSTEM SHALL
BE BENEATH THE PEDESTRIAN SIDEWALKS
AS SHOWN ON THIS SHEET.

REV	DATE	DESCRIPTION
8	11.28.11	PHASE 1 CONSTRUCTION SET
7	09.29.11	REVISED GRADING & LAYOUT OF PUMP STA. PER PWD COMMENTS
6	08.13.11	RESUBMITTED TO TOWN
5	08.01.11	RESUBMITTED TO TOWN
4	07.22.11	REVISED PER TOWN COMMENTS AND RESUBMITTED
3	06.30.11	RESUBMITTED TO TOWN
2	06.21.11	REVISED PER INTERNAL REVIEW
1	05.31.11	SUBMITTED TO TOWN AND DEP
REVISIONS		

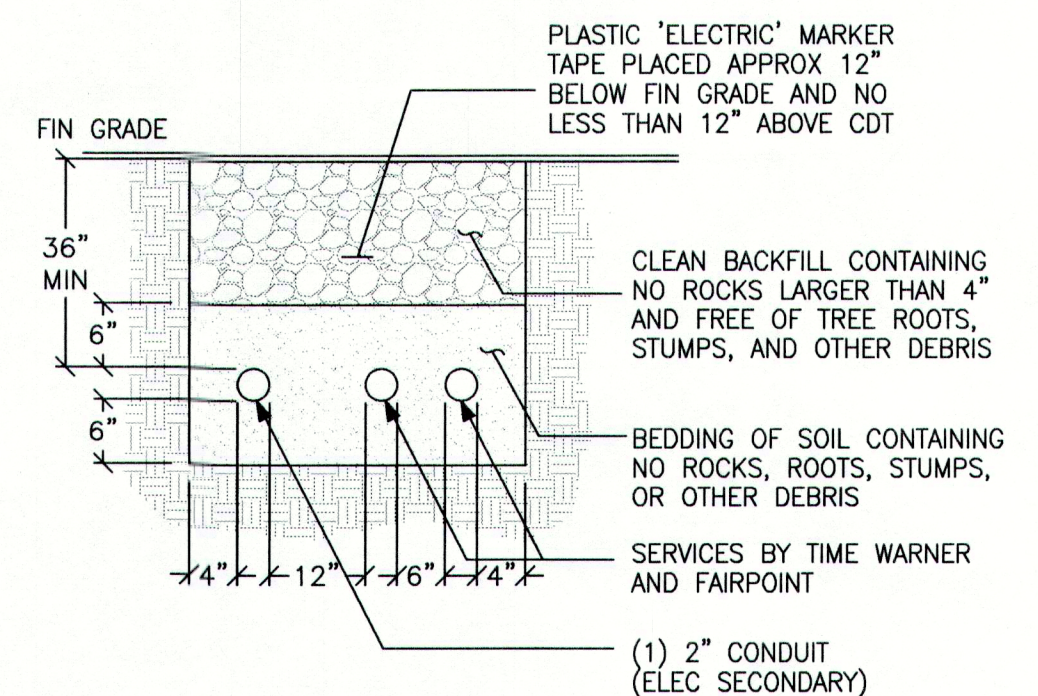


PROJECT
VILLAGE GREEN
CUMBERLAND, MAINE
SHEET TITLE
PRIVATE DRIVE 1 AND
PRIVATE DRIVE 2
CLIENT
VILLAGE GREEN
CUMBERLAND, LLC

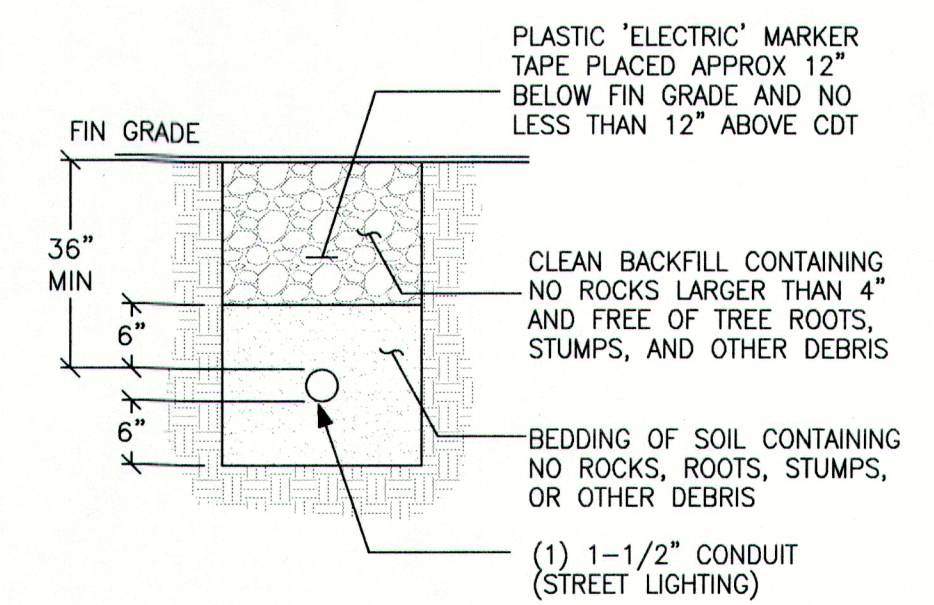
DeLUCA-HOFFMAN
ASSOCIATES, INC.
778 MAIN STREET, SUITE 8
SOUTH PORTLAND, ME 04106
207.775.1121
WWW.DELUCAHOFFMAN.COM
DRAWN: CDD DATE: MAY 2011
DESIGNED: JAL SCALE: AS NOTED
CHECKED: JAL JOB NO. 2998
FILE NAME: 2998-PROFILE-ACCESS DRIVE
SHEET P-7



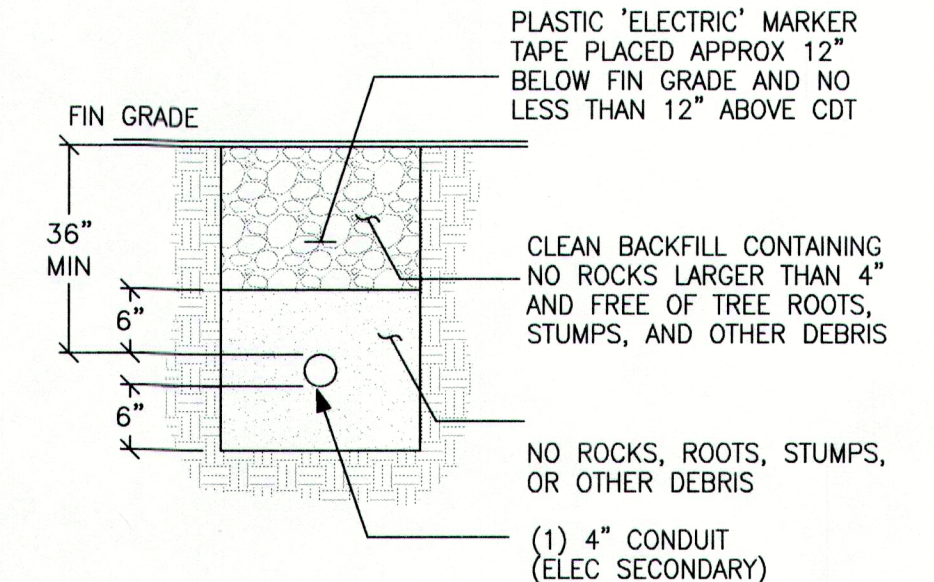
DUCT SECTION A
NOT TO SCALE



DUCT SECTION B
NOT TO SCALE



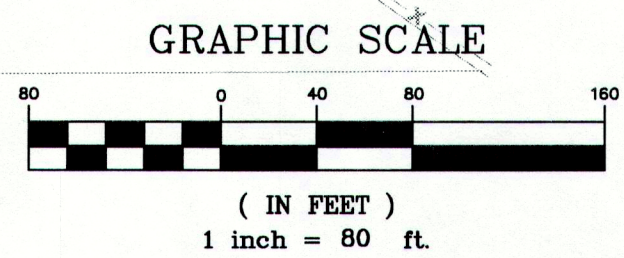
DUCT SECTION C
NOT TO SCALE



DUCT SECTION D
NOT TO SCALE

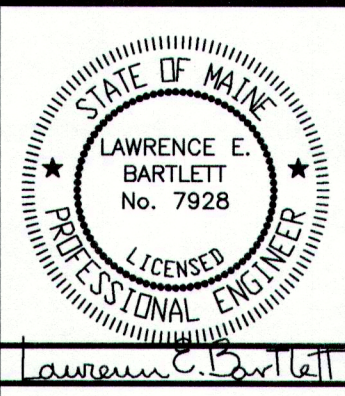
- NOTES:
- UNDERGROUND SERVICE CABLES/CONDUITS SHALL BE INSTALLED BELOW SIDEWALKS AS INDICATED ON SHEETS P2 THRU P7.
 - SERVICE CABLES FOR TELEPHONE AND CABLE TV SHALL BE PROVIDED BY FAIRPOINT AND TIME-WARNER. PROVIDE 4" CONDUIT FOR TELEPHONE AND CABLE TV WHERE CABLES PASS BENEATH PAVED AREAS ONLY.
 - SCHEDULE THE INSTALLATION OF TELEPHONE AND CABLE TV SERVICE CABLES WITH FAIRPOINT AND TIME-WARNER ONE WEEK (MINIMUM) IN ADVANCE OF DESIRED INSTALLATION. UTILITY TRENCHES SHALL BE OPEN AND CONDUITS AT ROAD CROSSINGS SHALL BE INSTALLED.

- KEY
- U/G CONDUITS
(2) 2-1/2" - CMP PRIMARY
(2) - SERVICES BY TIME-WARNER & FAIRPOINT
(SEE DUCT SECTION A, THIS SHEET)
 - U/G CONDUITS
SERVING SEPARATE PROPERTY SITES
(1) 2" - CMP SECONDARY
(1) 1-1/2" - FAIRPOINT TELEPHONE
(1) 1-1/2" - TIME-WARNER
(SEE DUCT SECTION B, THIS SHEET)
 - U/G CONDUITS
SERVING LIGHTING POLES & PROJECT SIGN
(1) 1-1/2" - CMP SECONDARY
(SEE DUCT SECTION C, THIS SHEET)
 - PAD MOUNTED SERVICE TRANSFORMER
 - * LIGHTING POLE
L1— POLE NUMBER
 - UTILITY COMPANY SERVICE METER
(SEE DETAIL, SHT E101)
- SEE SHEET E101 FOR DRAWING NOTES



Bartlett Design
LIGHTING & ELECTRICAL ENGINEERING
942 WASHINGTON STREET, BATH, ME 04530
TEL (207) 443-5447 FAX (207) 443-5560

REV	DATE	DESCRIPTION
6	10-28-11	REVISIONS TO CONDUIT/CABLE LOCATIONS
5	10-11-11	PLAN REVISIONS
4	09-14-11	REVISED PER CMP REVIEW
3	07-29-11	REVISED SUBMISSION TO CITY
2	07-18-11	REVISED DISTRIBUTION
1	06-30-11	SUBMIT TO CITY



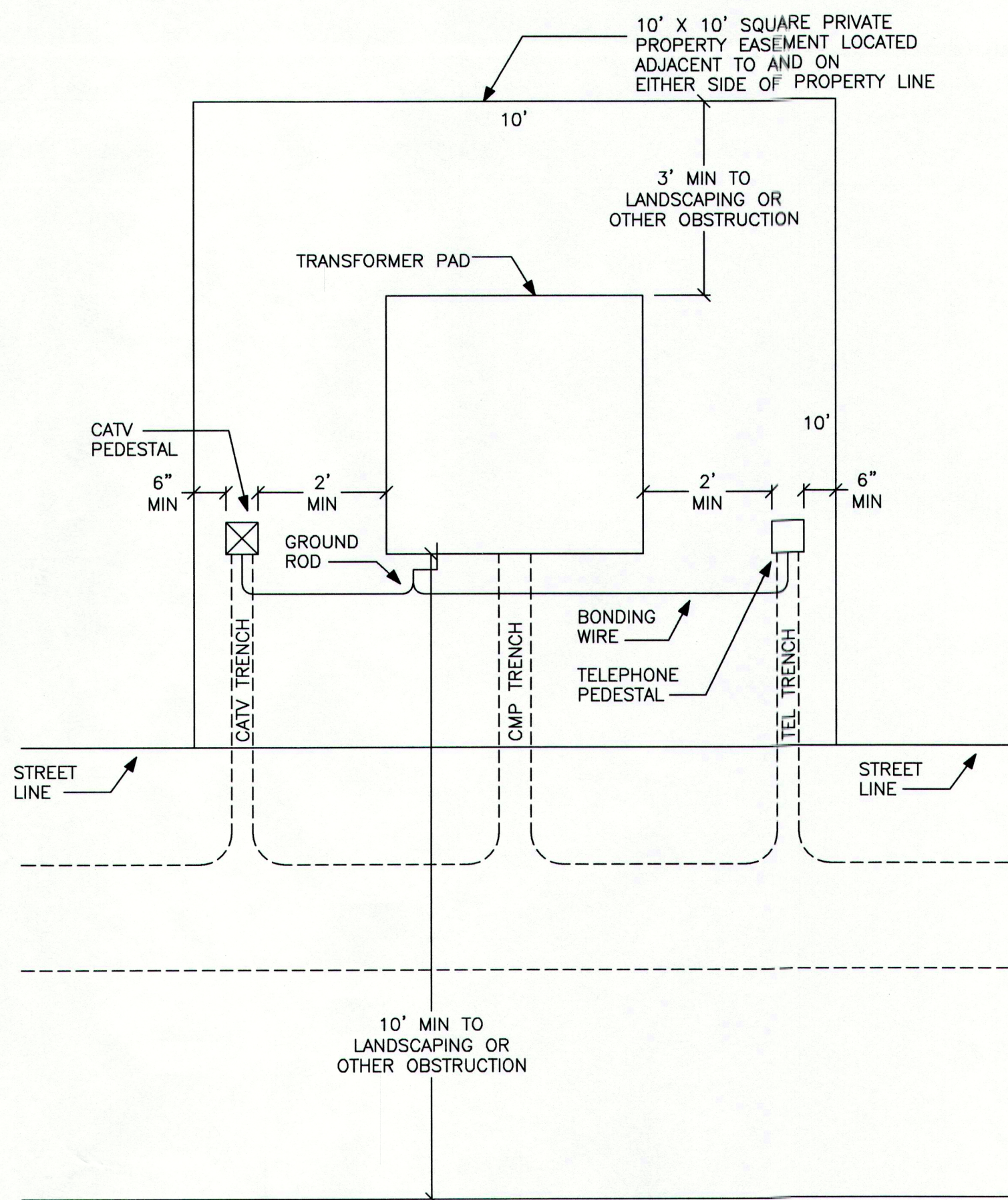
PROJECT **VILLAGE GREEN**
CUMBERLAND, MAINE

SHEET TITLE **LIGHTING & DISTRIBUTION PLAN**

CLIENT **VILLAGE GREEN CUMBERLAND, LLC**

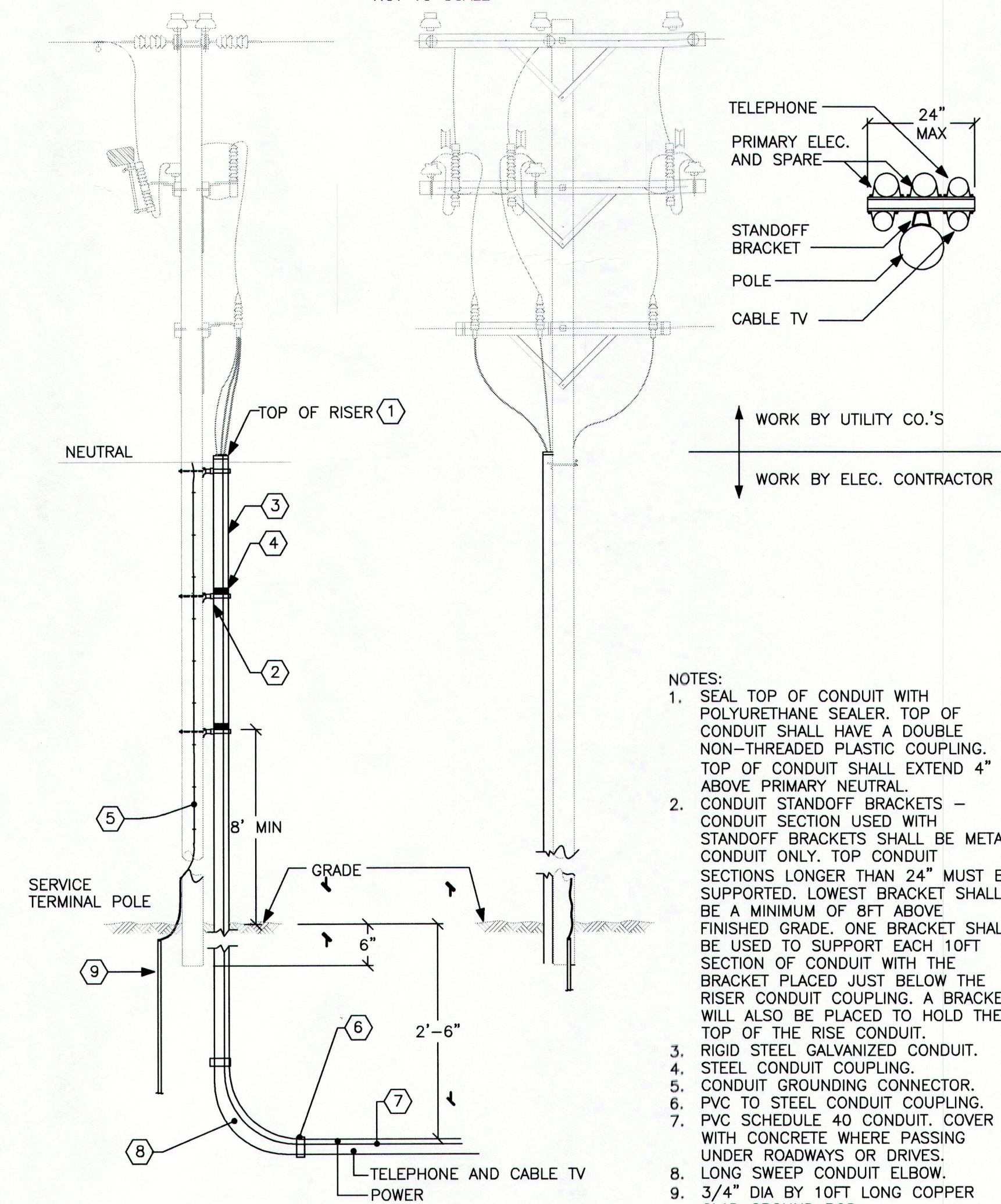
DeLUCA-HOFFMAN ASSOCIATES, INC.
778 MAIN STREET, SUITE 8
SOUTH PORTLAND, ME 04106
207.778.1121
WWW.DELUCAHOFFMAN.COM

DRAWN: JLC DATE: JUNE 2011
DESIGNED: LEB SCALE: 1" = 80'-0"
CHECKED: LEB JOB NO. 2998
FILE NAME: 1131 E100 & E101.dwg
SHEET **E100**



TRANSFORMER EASEMENT LAYOUT

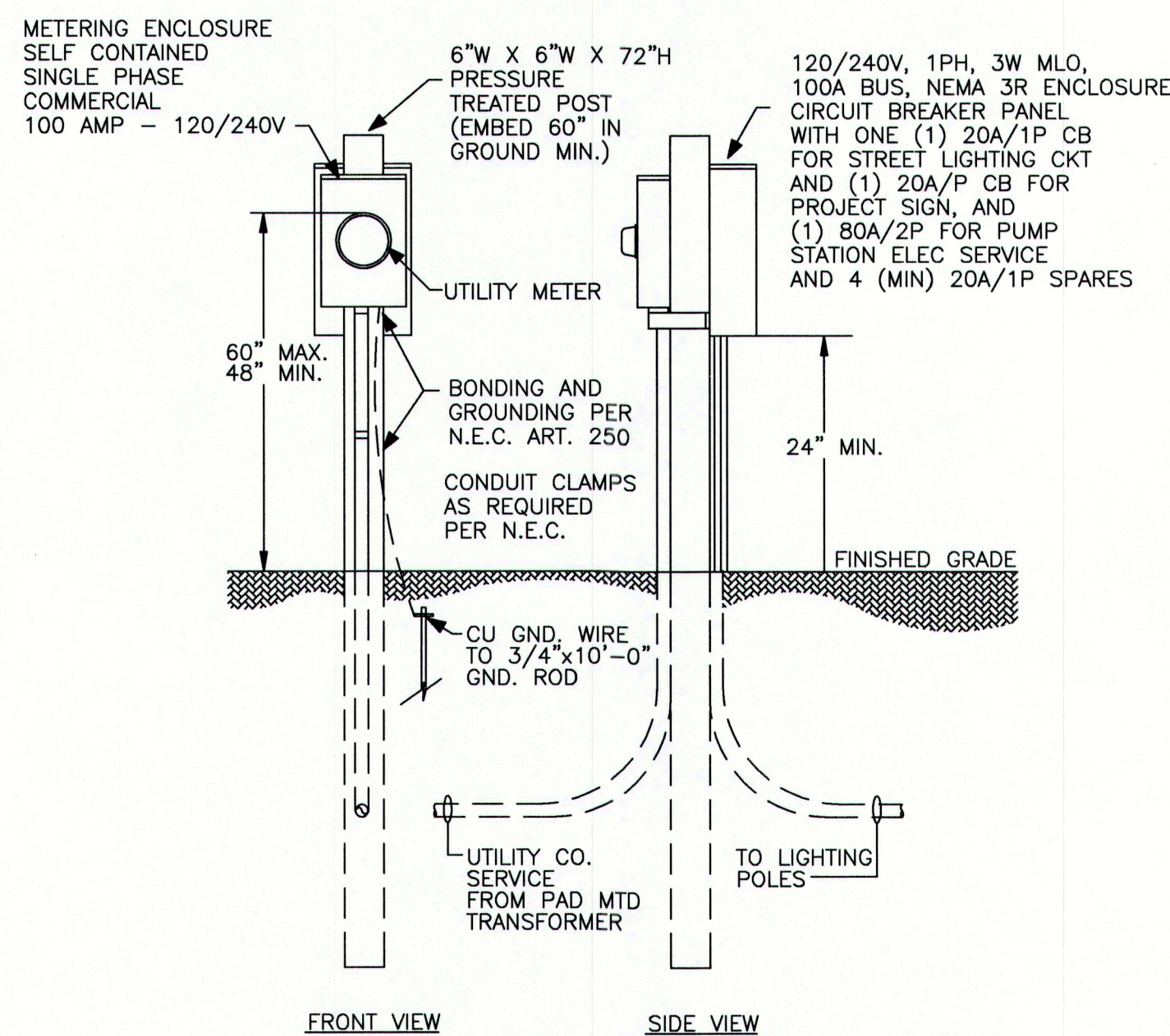
NOT TO SCALE



- NOTES:
1. SEAL TOP OF CONDUIT WITH POLYURETHANE SEALER. TOP OF CONDUIT SHALL HAVE A DOUBLE NON-THREADED PLASTIC COUPLING. TOP OF CONDUIT SHALL EXTEND 4" ABOVE PRIMARY NEUTRAL.
 2. CONDUIT STANDOFF BRACKETS - CONDUIT SECTION USED WITH STANDOFF BRACKETS SHALL BE METAL CONDUIT ONLY. TOP CONDUIT SECTIONS LONGER THAN 24" MUST BE SUPPORTED. LOWEST BRACKET SHALL BE A MINIMUM OF 8 FT ABOVE FINISHED GRADE. ONE BRACKET SHALL BE USED TO SUPPORT EACH 10 FT SECTION OF CONDUIT WITH THE BRACKET PLACED JUST BELOW THE RISER CONDUIT COUPLING. A BRACKET WILL ALSO BE PLACED TO HOLD THE TOP OF THE RISE CONDUIT.
 3. RIGID STEEL GALVANIZED CONDUIT.
 4. STEEL CONDUIT COUPLING.
 5. CONDUIT GROUNDING CONNECTOR.
 6. PVC TO STEEL CONDUIT COUPLING.
 7. PVC SCHEDULE 40 CONDUIT. COVER WITH CONCRETE WHERE PASSING UNDER ROADWAYS OR DRIVES.
 8. LONG SWEEP CONDUIT ELBOW.
 9. 3/4" DIA BY 10 FT LONG COPPER CLAD GROUND ROD.

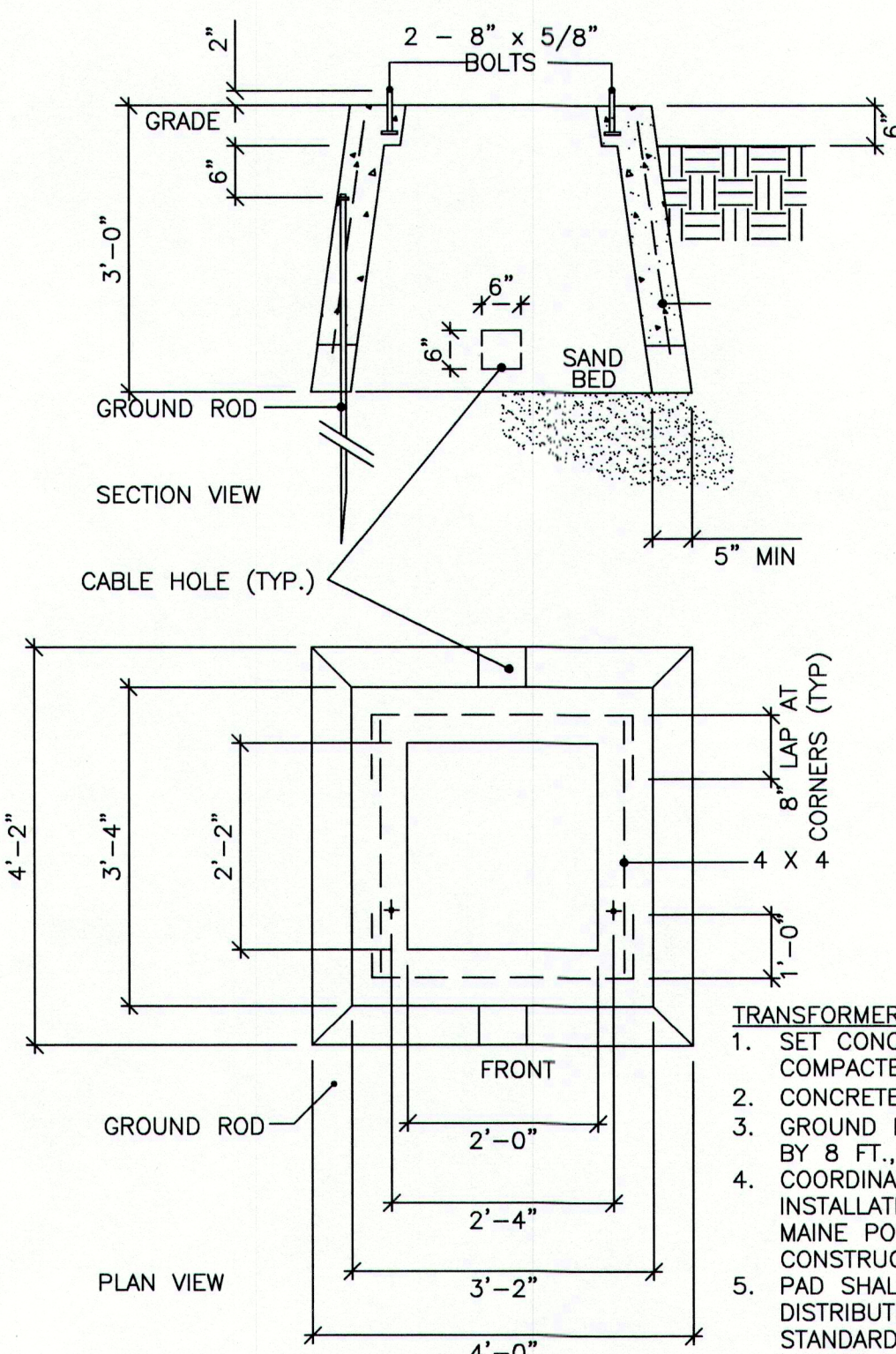
RISER POLE DETAIL

NOT TO SCALE



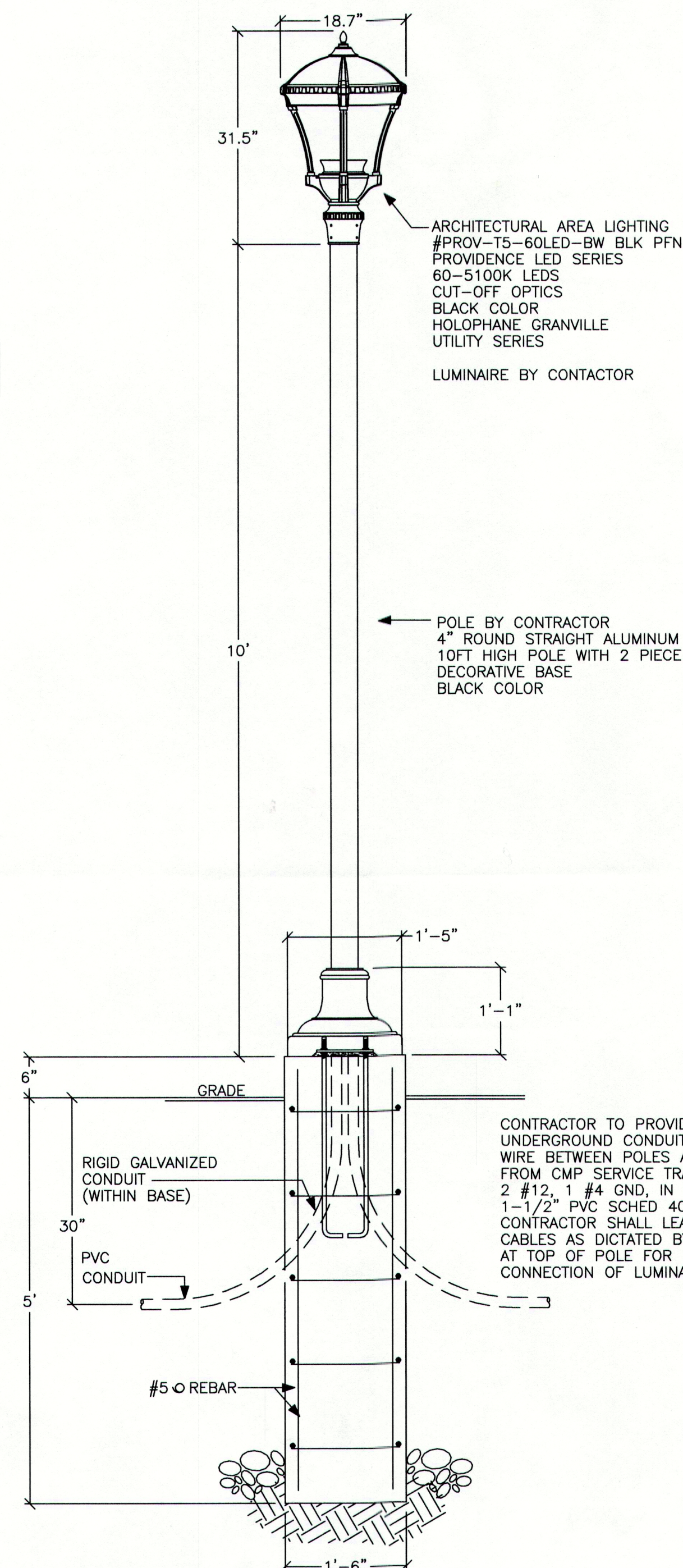
EXTERIOR POST MTD PANEL AND METER DETAIL

1/2" 1'-0"



SINGLE PHASE TRANSFORMER PAD DETAIL

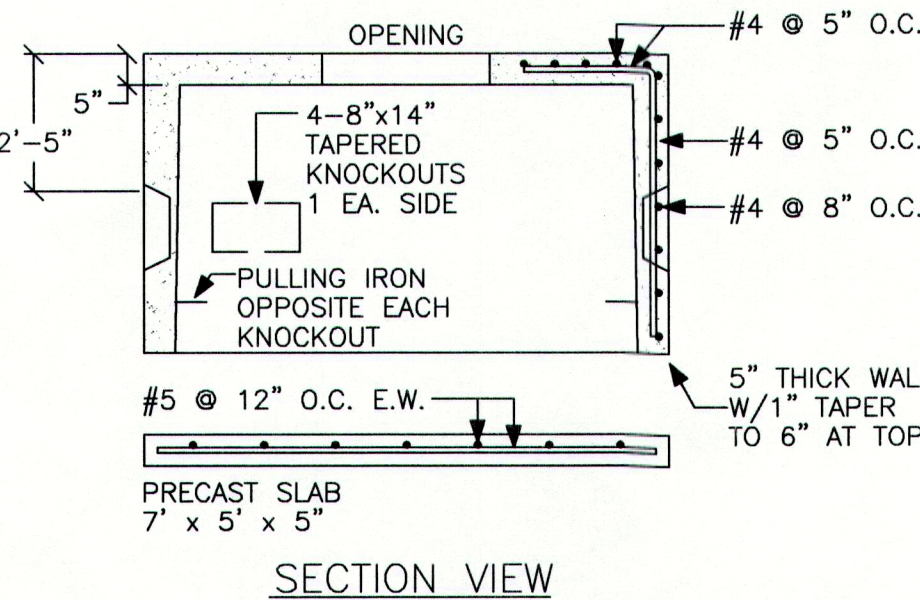
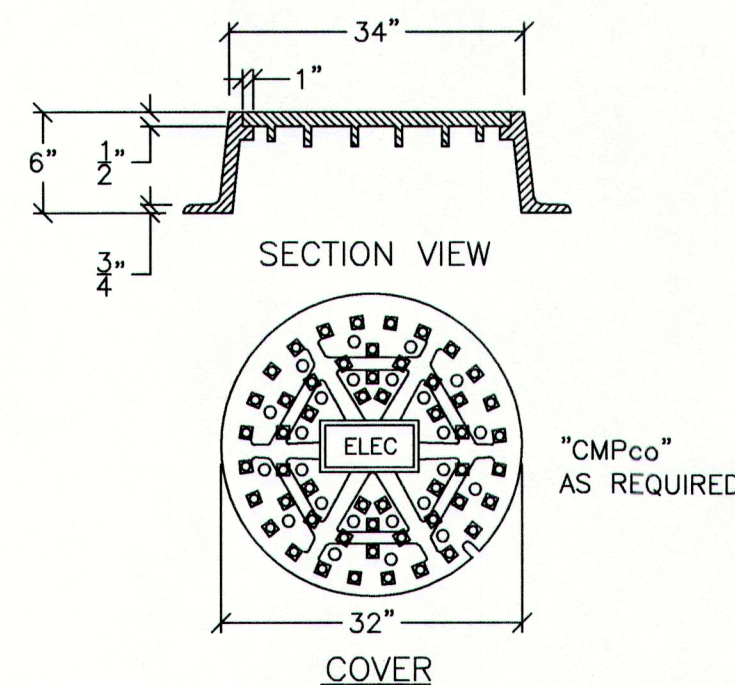
NOT TO SCALE



LIGHTING POLE BASE DETAIL

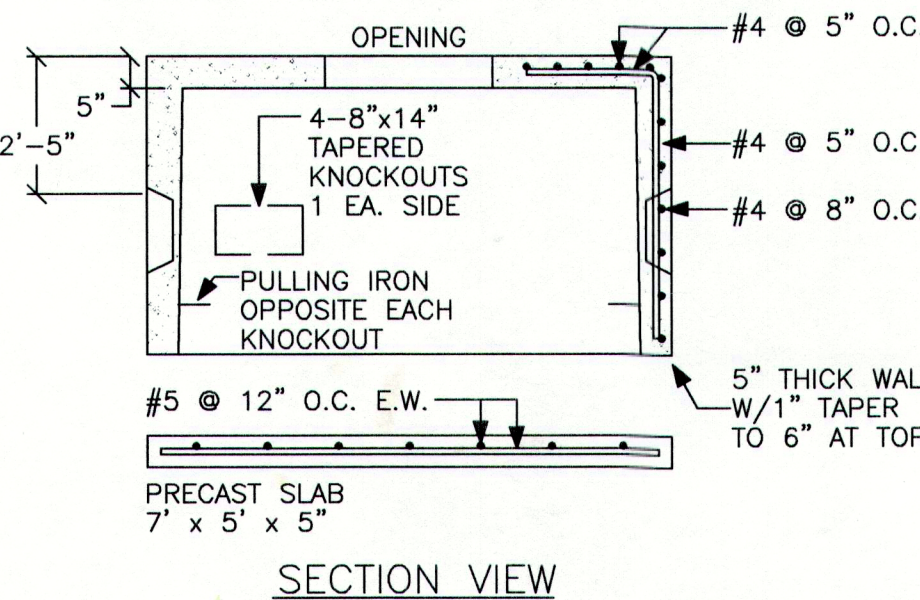
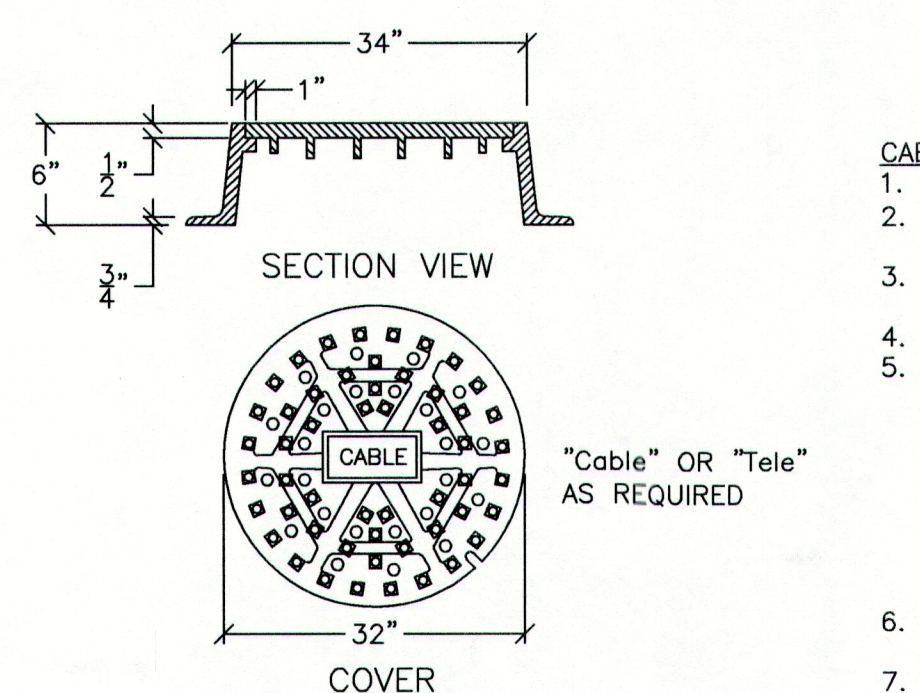
NOT TO SCALE

- PROJECT NOTES:
1. WHERE INDICATED ARRANGE WITH THE CENTRAL MAINE POWER COMPANY, FAIRPOINT TELEPHONE AND TIME-WARNER CABLE TO PROVIDE A NEW UTILITY POLE TO BECOME A SERVICE RISER POLE TO TRANSITION TO UNDERGROUND SERVICES. THE CONTRACTOR SHALL PROVIDE (2)-5" RGS RISER CONDUITS FOR USE BY CMP, (2)-4" RGS RISER CONDUITS FOR USE BY FAIRPOINT, AND (2)-4" RGS CONDUITS FOR USE BY TIME-WARNER.
 2. EXTEND EMPTY CONDUITS FOR FUTURE ELECTRICAL SECONDARY (1 4"), TELEPHONE (1 2-1/2") AND CABLE TV (1 2-1/2") SERVICES ONTO EACH LOT. CONDUITS SHALL ORIGINATE AT CMP TRANSFORMERS AND FAIRPOINT/TIME-WARNER PEDESTALS, AND SHALL EXTEND TEN FEET PAST THE STREET PROPERTY LINE AT EACH LOT. CAP FOR FUTURE USE.
 3. WHERE INDICATED, PROVIDE NEW MANHOLE STRUCTURES FOR USE BY CMP, FAIRPOINT, AND TIME-WARNER. SEE DETAIL THIS SHEET FOR MANHOLE CONSTRUCTION REQUIREMENTS.
 4. WHERE INDICATED, ARRANGE WITH CMP, FAIRPOINT, AND TIME-WARNER TO UPGRADE EXISTING OVERHEAD UTILITIES AS REQUIRED TO SERVE NEW VILLAGE GREEN PROJECT.
 5. WHERE INDICATED, PROVIDE POST WITH CMP METER AND PANEL IN A NEMA 3R ENCLOSURE TO SERVE STREET LIGHTING, THE PROJECT SIGN AND SERVICE TO THE PUMP STATION. SEE DETAIL THIS SHEET.
 6. PROVIDE 2 #10, 1 #12GND, IN A 1" CDT FROM THE UTILITY SERVICE PANEL (SEE NOTE 5) TO THE PROJECT SIGN.
 7. PROVIDE 3 #2, 1 #8GND, IN A 2" CDT FROM THE UTILITY SERVICE PANEL (SEE NOTE 5) TO THE PUMP STATION.
 8. PROVIDE AN EMPTY 4" CDT TO SERVE THE FUTURE MAINTENANCE BUILDING. EXTEND CONDUIT FROM RISER POLE TO LOCATION OF BUILDING (CAP CONDUIT FOR FUTURE USE).



ELECTRICAL MANHOLE DETAIL

NOT TO SCALE

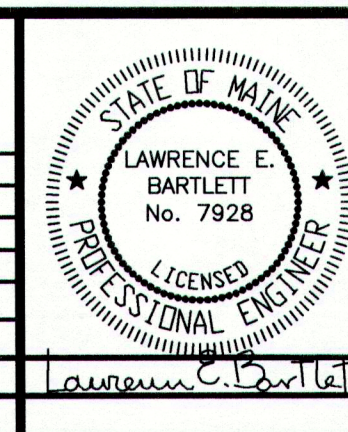


CABLE & TELEPHONE MANHOLE DETAIL

NOT TO SCALE

Bartlett Design
LIGHTING & ELECTRICAL ENGINEERING
942 WASHINGTON STREET, BATH, ME 04530
TEL (207) 443-8447 FAX (207) 443-8580

REV	DATE	DESCRIPTION
1	10-28-11	REVISIONS TO CONDUIT/CABLE LOCATIONS
2	10-11-11	PLAN REVISIONS
3	09-14-11	REVISED PER CMP REVIEW
4	07-29-11	REVISED SUBMISSION TO CITY
5	07-18-11	REVISED DISTRIBUTION
6	06-30-11	SUBMIT TO CITY



PROJECT	VILLAGE GREEN CUMBERLAND, MAINE
SHEET TITLE	ELECTRICAL DETAILS
CLIENT	VILLAGE GREEN CUMBERLAND, LLC

DeLUCA-HOFFMAN ASSOCIATES, INC. 778 MAIN STREET, SUITE 8 SOUTH PORTLAND, ME 04106 207.775.1121 WWW.DELUCAHOFFMAN.COM	DRAWN: JLC DATE: JUNE 2011 DESIGNED: LEB SCALE: NONE CHECKED: LEB JOB NO. 2998 FILE NAME: 1131 E100 & E101.dwg SHEET E101
---	---