

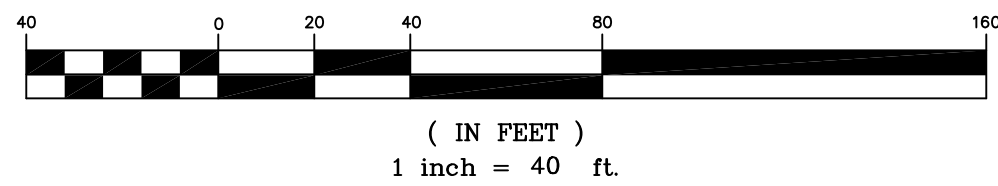
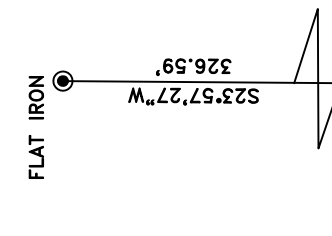
CAUTION



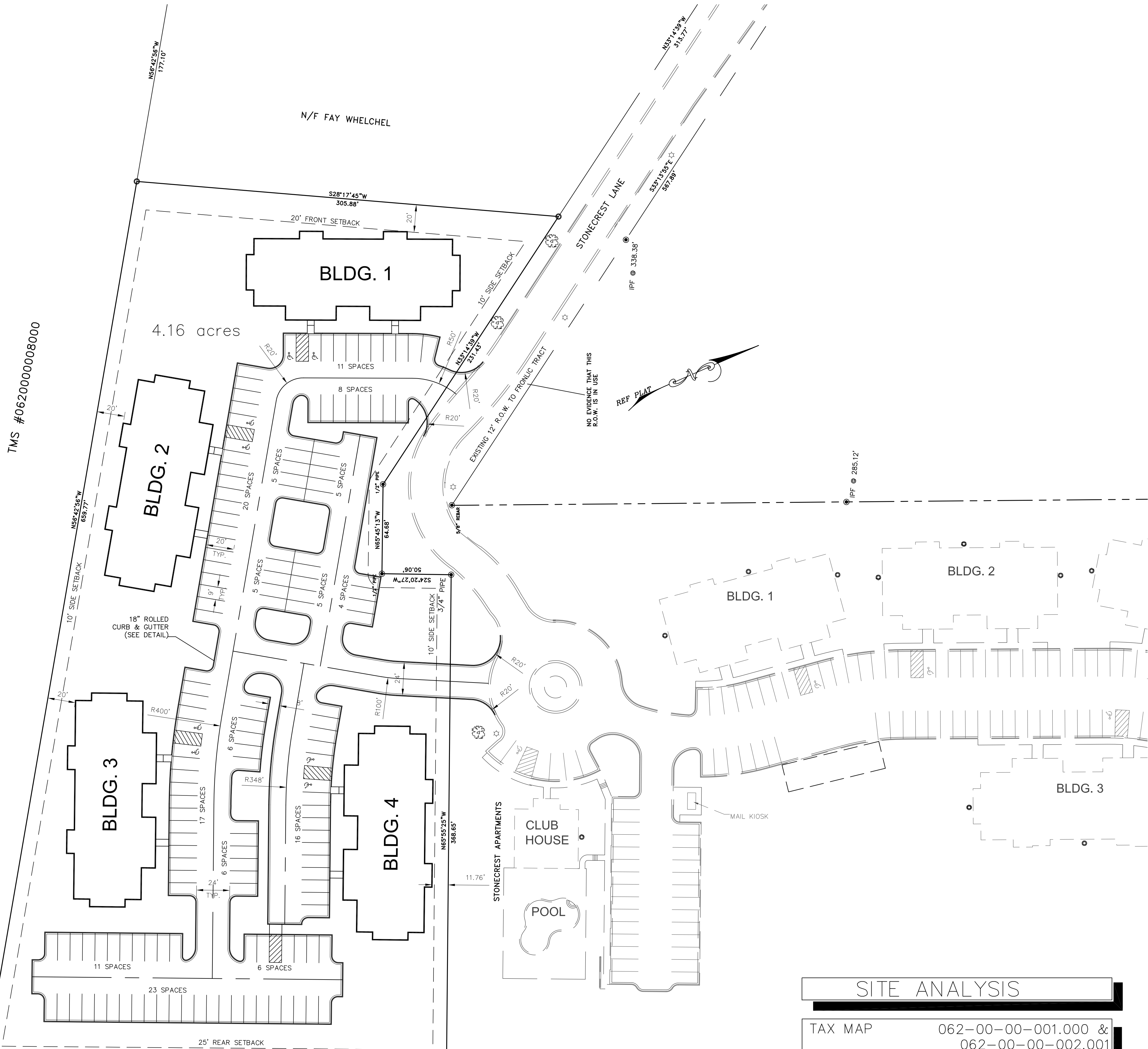
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BOUNDARY AND TOPOGRAPHIC SURVEY
PROVIDED BY: Gramling Surveying Inc.
P.O. Box 389
Gramling, SC 29348

- Legend of Symbols & Abbreviations**
- | | | | | | |
|------|---------------------------|------|---------------------------|------|----------------------|
| PF | IRON PIN FOUND | EP | EDGE OF PAVEMENT | FH | FIRE HYDRANT |
| PS | IRON PIN SET | R/W | RIGHT-OF-WAY | PP | POWER POLE |
| NCS | NAIL & CAP FOUND | BL | BUILDING LINE | LP | LIGHT POLE |
| NC | NAIL & CAP SET | FOC | FIBER OPTIC CABLE | CB | CATCH BASIN |
| PT | POINT | RCP | REINFORCED CONCRETE PIPE | DI | DROP INLET |
| CT | CRIMPED TOP | CMP | CORRUGATED METAL PIPE | SSMH | SEWER MANHOLE |
| OT | OPEN TOP | SS | SANITARY SEWER | SDMH | STORM DRAIN MANHOLE |
| RB | REBAR | SD | STORM DRAIN | TM | TELEPHONE MANHOLE |
| SR | SOLID ROD | T | GAS LINE | WM | WATER METER |
| UG | UNDERGROUND | G | GAS LINE | TPED | TELEPHONE PEDESTAL |
| CLF | CHAIN LINK FENCE | TBM | TEMPORARY BENCH MARK | GV | GAS VALVE |
| WPF | WOOD PRIVACY FENCE | CO | CLEAN-OUT | WV | WATER VALVE |
| UGE | UNDERGROUND ELECTRIC | GM | GAS METER | PV | POST INDICATOR VALVE |
| OMP | OVERHEAD POWER | EM | ELECTRICAL METER | ET | ELECTRIC TRANSFORMER |
| SD | STORM DRAIN | CATV | CABLE TELEVISION PEDESTAL | | |
| SS | SANITARY SEWER | | | | |
| SF | SILT FENCE | | | | |
| LD | LIMITS OF DISTURBANCE | | | | |
| IP | INLET PROTECTION | | | | |
| F | FENCE | | | | |
| SWFD | STORMWATER FLOW DIRECTION | | | | |
| AB | ASPHALT BERM | | | | |
| PFD | PIPE FLOW DIRECTION | | | | |



TMS #062000008000



SITE ANALYSIS

TAX MAP	062-00-00-001.000 & 062-00-00-002.001
LAND AREA	4.2 ACRES
PROPOSED BLDG.	84 UNITS
APT. PARKING REQ.	147 SPACES
APT. PARKING PROV.	148 SPACES
APT. PARK. BASED ON	1.75 SP./UNIT

PROJECT:

Stonecrest Apartments
Expansion
Cherokee County, SC

REVISION

NO. DATE

1	
2	
3	
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7	

SHEET TITLE:

Site Layout

SCALE: 1"=40'
DRAWN: MEH
DATE: 12-13-12

PROJECT NO. 10042

CV-1

BLUE LINE
CONSULTING, LLC

4503 N. HWY. 14
GREER, SC 29651
(864) 884-2158

ENGINEER SEAL

CORPORATE SEAL

CAUTION



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BOUNDARY AND TOPOGRAPHIC SURVEY
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P.O. Box 389
Gramling, SC 29348

LIMITS OF DISTURBANCE
±4.9 ACRES

DIRT FROM AREAS OF CUT
TO BE INITIAL. USED TO
BUILD DAM FOR TEMPORARY
SEDIMENT BASIN.

STONECREST LANE

REF PLAT

STONE CONSTRUCTION
ENTRANCE
(SEE DETAIL)

BLDG. 1
FF 864.0

BLDG. 2
FF 862.0

BLDG. 3
FF 860.0

CLUB HOUSE

POOL

MAIL KIOSK

STONE FILTER RING AROUND
TEMPORARY SEDIMENT
BASIN OUTLET
(SEE DETAIL)

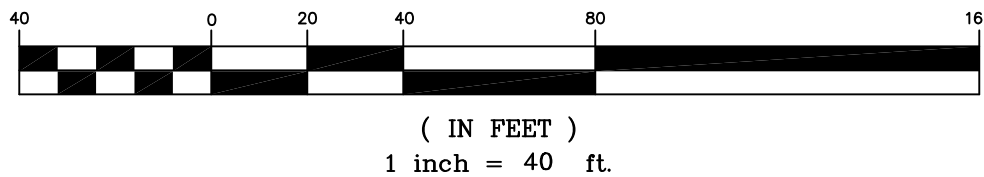
POURIOUS BAFFLES
TO BE INSTALLED IN
EXISTING POND
(SEE DETAIL)

STONE FILTER RING AROUND
EXISTING POND OUTLET
(SEE DETAIL)

Legend of Symbols & Abbreviations

- | | | | | | |
|-----|---------------------------|-----|---------------------------|------|----------------------|
| PF | IRON PIN FOUND | EP | EDGE OF PAVEMENT | FH | FIRE HYDRANT |
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| SF | SILT FENCE | | | | |
| LD | LIMITS OF DISTURBANCE | | | | |
| IP | INLET PROTECTION | | | | |
| F | FENCE | | | | |
| SF | STORMWATER FLOW DIRECTION | | | | |
| AB | ASPHALT BERM | | | | |
| P | PIPE FLOW DIRECTION | | | | |

GRAPHIC SCALE



BLUE LINE
CONSULTING, LLC
4503 N. HWY. 14
GREER, SC 29651
(864) 884-2158

NO.	DATE	REVISION
1		
2		
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5		
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7		

**Stonecrest Apartments
Expansion**
Cherokee County, SC

**Clearing and Initial
Erosion Control Layout**
SHEET TITLE:
PROJECT NO. 10042
MEH SHEET NO.
DATE: 12-13-12

CV-2

CORPORATE SEAL

ENGINEER SEAL

CAUTION



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BOUNDARY AND TOPOGRAPHIC SURVEY
PROVIDED BY: Gramling Surveying Inc.
P.O. Box 389
Gramling, SC 29348

STORMWATER STRUCTURE SCHEDULE						
Structure Number	Structure	Type	Top Elevation	Weir Elevation	Invert Elevation	Depth (ft)
1	CB	Type B	----	867.00	864.50	2.50
Outflow to:	2	Distance: 104 ft.	Slope: 0.48%	Size: 10"	Downstream IE: 864.00	
2	CB	Type B	----	866.50	864.00	2.50
Outflow to:	3	Distance: 84 ft.	Slope: 1.07%	Size: 10"	Downstream IE: 863.10	
3	CB	Type D	868.00	867.50	862.60	4.90
Outflow to:	5	Distance: 68 ft.	Slope: 0.59%	Size: 15"	Downstream IE: 862.20	
4	CB	Type B	----	866.70	863.70	3.00
Outflow to:	5	Distance: 85 ft.	Slope: 1.06%	Size: 10"	Downstream IE: 862.80	
5	MH	Type C	866.90	----	862.20	4.70
Outflow to:	6	Distance: 87 ft.	Slope: 0.57%	Size: 15"	Downstream IE: 861.70	
6	CB	Type D	865.70	865.20	861.70	3.50
Outflow to:	8	Distance: 49 ft.	Slope: 0.82%	Size: 15"	Downstream IE: 861.30	
7	CB	Type B	----	862.90	860.40	2.50
Outflow to:	8	Distance: 40 ft.	Slope: 1.00%	Size: 10"	Downstream IE: 860.00	
8	CB	Type D	865.10	864.60	859.50	5.10
Outflow to:	11	Distance: 84 ft.	Slope: 1.07%	Size: 18"	Downstream IE: 858.60	
9	CB	Type B	----	866.50	863.50	3.00
Outflow to:	10	Distance: 90 ft.	Slope: 3.33%	Size: 10"	Downstream IE: 860.50	
10	CB	Type B	----	863.00	860.50	2.50
Outflow to:	11	Distance: 101 ft.	Slope: 1.19%	Size: 10"	Downstream IE: 859.30	
11	CB	Type D	864.30	863.80	858.60	5.20
Outflow to:	13	Distance: 90 ft.	Slope: 1.00%	Size: 18"	Downstream IE: 857.70	
12	CB	Type B	----	863.50	860.50	3.00
Outflow to:	13	Distance: 97 ft.	Slope: 2.16%	Size: 10"	Downstream IE: 858.40	
13	CB	Type D	863.00	862.50	857.70	4.80
Outflow to:	15	Distance: 54 ft.	Slope: 1.11%	Size: 18"	Downstream IE: 857.10	
14	CB	Type B	----	862.90	859.90	3.00
Outflow to:	15	Distance: 59 ft.	Slope: 3.56%	Size: 10"	Downstream IE: 857.80	
15	CB	Type D	862.70	862.20	856.60	5.60
Outflow to:	16	Distance: 77 ft.	Slope: 4.68%	Size: 24"	Downstream IE: 853.00	
16	CB	Type D	861.50	861.00	853.00	8.00
Outflow to:	17	Distance: 40 ft.	Slope: 7.50%	Size: 24"	Downstream IE: 850.00	
17	MH	Type C	854.00	----	850.00	4.00
Outflow to:	18	Distance: 235 ft.	Slope: 1.36%	Size: 24"	Downstream IE: 846.80	
18	MH	Type C	856.00	----	846.80	9.20
Outflow to:	19	Distance: 75 ft.	Slope: 1.07%	Size: 24"	Downstream IE: 846.00	
19	End of Pipe	----	----	----	846.00	----
Outflow to:		Distance: ----	Slope: ----	Size: ----	Downstream IE: ----	

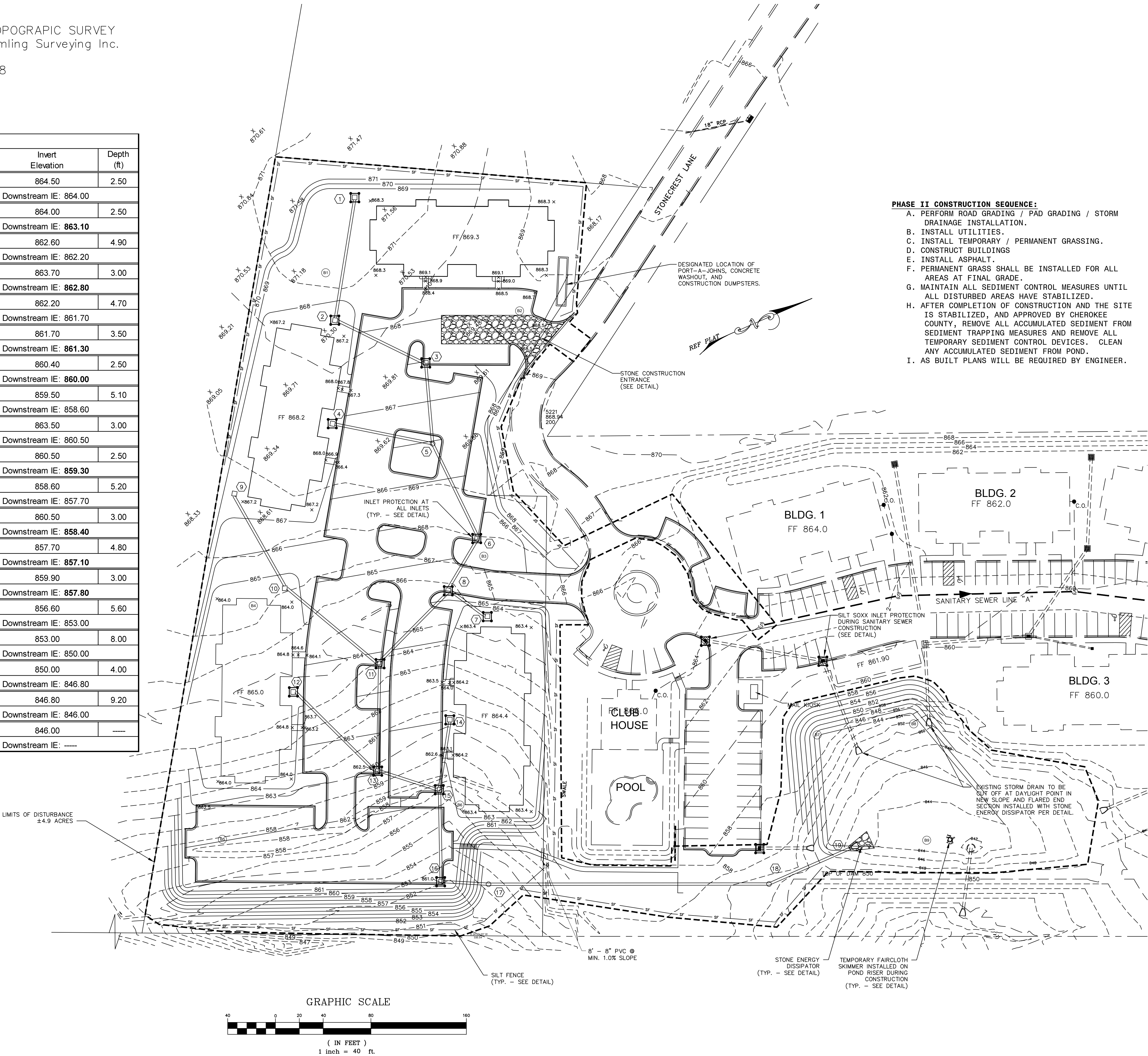
STORMWATER SCHEDULE NOTES:

- ALL 10" PIPE TO BE ADS N-12 HDPE.
- ALL LARGER PIPE TO BE RCP UNLESS OTHERWISE NOTED.
- ALL PIPE OUTFALLS TO HAVE FLARED END SECTION.

Legend of Symbols & Abbreviations

OP	IRON PIN FOUND	EP	EDGE OF PAVEMENT	FD	FIRE HYDRANT
PS	IRON PIN SET	R/W	RIGHT-OF-WAY	PP	POWER POLE
NCS	NAIL & CAP FOUND	FOC	FIBER OPTIC CABLE	LP	LIGHT POLE
NCS	NAIL & CAP SET	RCP	REINFORCED CONCRETE PIPE	CB	CATCH BASIN
PT	POINT	CMP	CORRUGATED METAL PIPE	DI	DROP INLET
CT	CRIMPED TOP	SS	SANITARY SEWER	SDMH	SEWER MANHOLE
OT	OPEN TOP	SS	SANITARY SEWER	SDMH	SEWER MANHOLE
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OWP	OVERHEAD POWER	EM	ELECTRICAL METER	ET	ELECTRIC TRANSFORMER
SD	STORM DRAIN	CATV	CABLE TELEVISION PEDESTAL		
SS	SANITARY SEWER				
SF	SILT FENCE				
LD	LIMITS OF DISTURBANCE				
IF	INLET PROTECTION				
F	FENCE				
SD	STORMWATER FLOW DIRECTION				
AB	ASPHALT BERM				
PD	PIPE FLOW DIRECTION				

LIMITS OF DISTURBANCE
±4.9 ACRES



PHASE II CONSTRUCTION SEQUENCE:

- PERFORM ROAD GRADING / PAD GRADING / STORM DRAINAGE INSTALLATION.
- INSTALL UTILITIES.
- INSTALL TEMPORARY / PERMANENT GRASSING.
- CONSTRUCT BUILDINGS
- INSTALL ASPHALT.
- PERMANENT GRASS SHALL BE INSTALLED FOR ALL AREAS AT FINAL GRADE.
- MAINTAIN ALL SEDIMENT CONTROL MEASURES UNTIL ALL DISTURBED AREAS HAVE STABILIZED.
- AFTER COMPLETION OF CONSTRUCTION AND THE SITE IS STABILIZED, AND APPROVED BY CHEROKEE COUNTY, REMOVE ALL ACCUMULATED SEDIMENT FROM SEDIMENT TRAPPING MEASURES AND REMOVE ALL TEMPORARY SEDIMENT CONTROL DEVICES. CLEAN ANY ACCUMULATED SEDIMENT FROM POND.
- AS BUILT PLANS WILL BE REQUIRED BY ENGINEER.

SHEET TITLE: PROJECT: 12-13-12

Grading and Erosion Control Layout

SCALE: 1"=40' PROJECT NO. 10042
DRAWN: MEH SHEET NO.
DATE: 12-13-12

Stonecrest Apartments Expansion

Cherokee County, SC

NO. DATE

REVISION

Blue Line
E:\BLC\logo\BLC border logo.jpg
Consulting, LLC

4503 N. Hwy. 14
Greer, SC 29651
(864) 884-2158

ENGINEER SEAL

CORPORATE SEAL

CV-3

CAUTION



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BOUNDARY AND TOPOGRAPHIC SURVEY
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P.O. Box 389
Gramling, SC 29348

- PF IRON PIN FOUND

PS IRON PIN SET

NCS NAIL & CAP FOUND

NCS NAIL & CAP SET

PT POINT

CT CRIMPED TOP

OT OPEN TOP

RB REBAR

SR SOLID ROD

UG UNDERGROUND

CLF CHAIN LINK FENCE

WPF WOOD PRIVACY FENCE

UGE UNDERGROUND ELECTRIC

OWP OVERHEAD POWER

SS STORM DRAIN

SF SILT FENCE

LIMITS OF DISTURBANCE

INLET PROTECTION

FENCE

STORMWATER FLOW DIRECTION

ASPHALT BERM

PIPE FLOW DIRECTION

EP R/W

BL BUILDING LINE

FOC FIBER OPTIC CABLE

RCP REINFORCED CONCRETE PIPE

CMP CORRUGATED METAL PIPE

SS SANITARY SEWER

SD STORM DRAIN

T TELEPHONE

G GAS LINE

TBM TEMPORARY BENCH MARK

CO CLEAN-OUT

GM GAS METER

EM ELECTRICAL METER

CATV CABLE TELEVISION PEDESTAL

FH FIRE HYDRANT

PP POWER POLE

LP LIGHT POLE

CB CATCH BASIN

DI DROP INLET

SMH SEWER MANHOLE

SDMH STORM DRAIN MANHOLE

TMH TELEPHONE MANHOLE

WM WATER METER

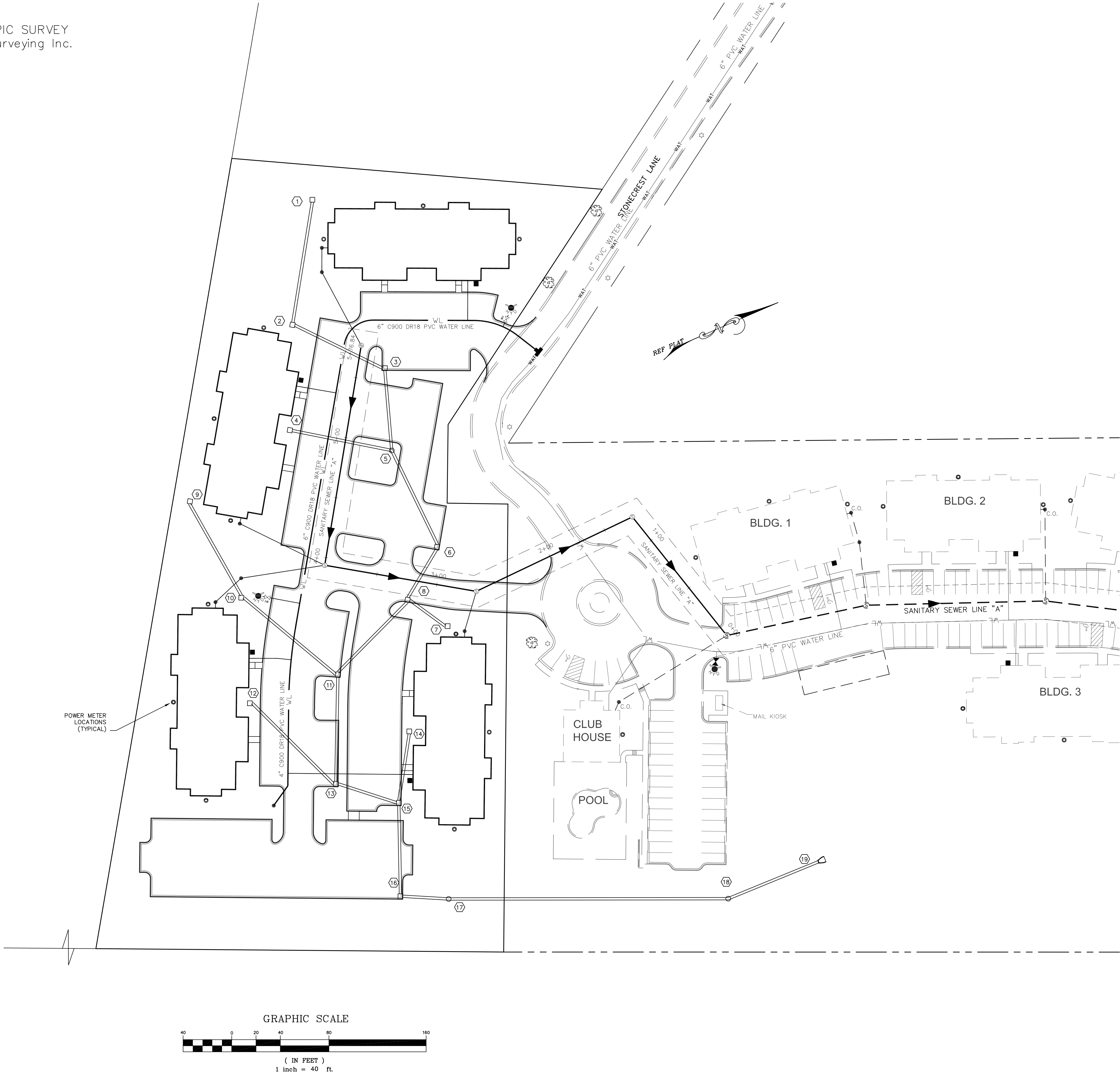
TPED TELEPHONE PEDESTAL

GV GAS VALVE

WV WATER VALVE

PV POST INDICATOR VALVE

ET ELECTRIC TRANSFORMER



BLUE LINE
CONSULTING, LLC

4503 N. HWY. 14
GREER, SC 29651
(864) 884-2158

NO.	DATE	REVISION
1		
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Stonecrest Apartments
Expansion
Cherokee County, SC

Utility Layout

1"=40' PROJECT NO. 10042

DRAWN: MEH SHEET NO. 12-13-12

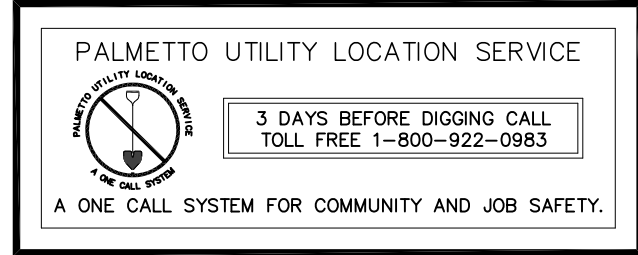
DATE:

CV-4

ENGINEER SEAL

CORPORATE SEAL

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PROVIDED BY: Gramling Surveying Inc.
P.O. Box 389
Gramling, SC 29348

PROPOSED M.H. #A5
STA. 5+76.84

PROPOSED M.H. #A4
STA. 3+93.57

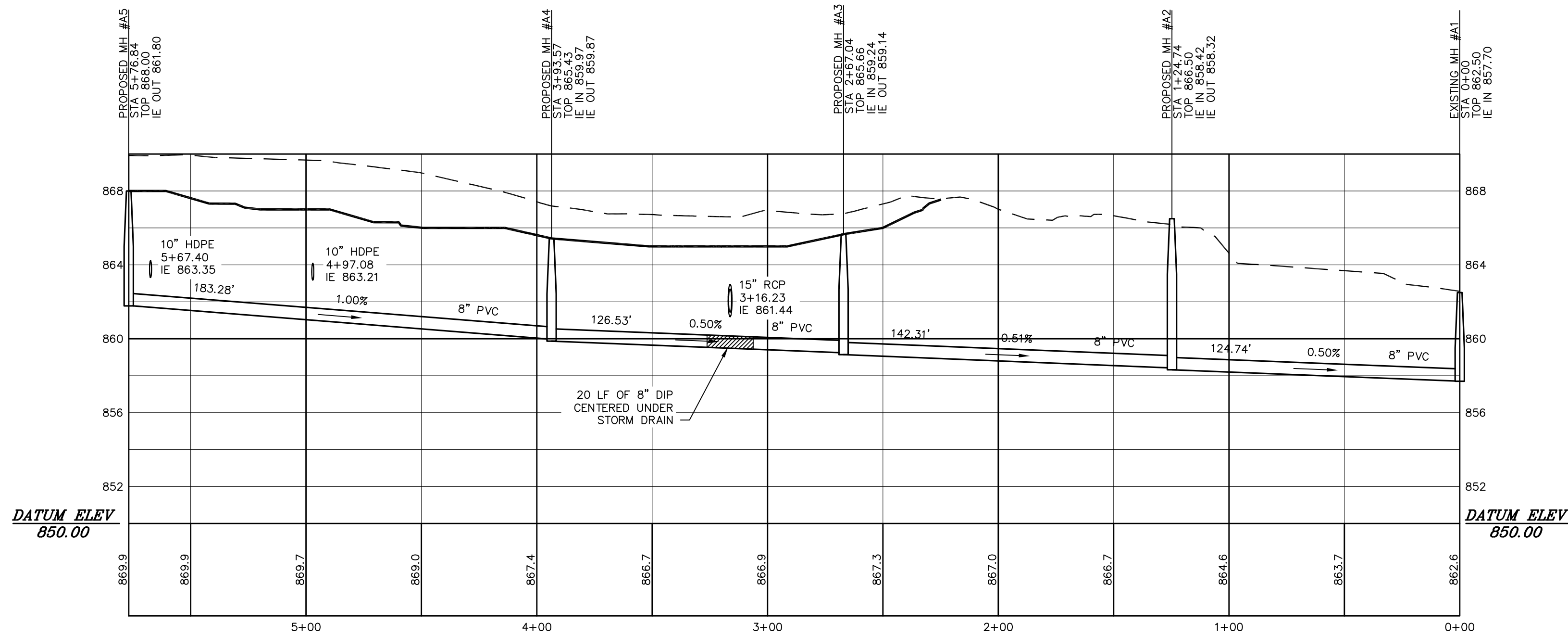
PROPOSED M.H. #A3
STA. 2+67.04

PROPOSED M.H. #A2
STA. 1+24.74

EXISTING M.H. #A1
STA. 0+00.00

SEWER LINE "A" PLAN

HORIZONTAL SCALE 1"=40'



SEWER LINE "A" PROFILE

HORIZONTAL SCALE 1"=40'
VERTICAL SCALE 1"=5'

- Legend of Symbols & Abbreviations**
- | | | | | | |
|------|---------------------------|------|---------------------------|------|----------------------|
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| UG | UNDERGROUND | SD | STORM DRAIN | WM | WATER METER |
| CLF | CHAIN LINK FENCE | T | TELEPHONE | TPED | TELEPHONE PEDESTAL |
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| LD | LIMITS OF DISTURBANCE | | | | |
| IP | INLET PROTECTION | | | | |
| F | FENCE | | | | |
| SWFD | STORMWATER FLOW DIRECTION | | | | |
| AB | ASPHALT BERM | | | | |
| P | PIPE FLOW DIRECTION | | | | |

BLUE LINE
CONSULTING, LLC

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GREER, SC 29651
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Stonecrest Apartments
Expansion
Cherokee County, SC

Sanitary Sewer
Plan and Profile

SCALE: 1"=40' PROJECT NO. 10042
DRAWN: MEH SHEET NO. 12-13-12
DATE:

CV-5

ENGINEER SEAL

CORPORATE SEAL

LANDSCAPING NOTES:

1. SEE SHEET L-1 FOR PLANTING PLAN.

2. AREAS TO BE GRASSED SHALL BE DEFINED AS ALL AREAS OF THE SITE WITHIN THE GRADING LIMITS AND NOT OCCUPIED BY PAVING OR STRUCTURES. GRASSING SHALL INCLUDE FINAL SHAPING, LIMING, FERTILIZING, SEEDING, AND MULCHING.

3. FERTILIZE TOPSOIL FOR PLANTING GRASS WITH COMMERCIAL FERTILIZER CONTAINING 10 PERCENT NITROGEN, 10 PERCENT PHOSPHOROUS, AND 10 PERCENT POTASH AT A RATE OF 5 POUNDS PER 1,000 SQUARE FEET. LIME SHALL BE APPLIED AS REQUIRED TO ADJUST SOIL TO AN ACCEPTABLE PH LEVEL. LIME SHALL BE GROUND DOLOMITIC LIMESTONE ACCEPTABLE AS AGRICULTURAL LIMESTONE CONTAINING NOT LESS THAN 85 PERCENT OF TOTAL CARBONATES. LIME SHALL MEET THE REQUIREMENTS OF THE SOUTH CAROLINA DEPARTMENT OF AGRICULTURE.

4. GRASS SEED SHALL CONSIST OF A BLEND AS INDICATED BELOW. THE TOTAL POUNDS OF SEED PER ACRE SHALL BE THE SUM TOTAL SHOWN BELOW FOR ALL VARIETIES OF SEED INDICATED. ALL SEED SHALL CONFORM TO STATE LAWS AND TO ALL REQUIREMENTS AND REGULATIONS OF THE SOUTH CAROLINA DEPARTMENT OF AGRICULTURE.

SCHEDULE NUMBER	SEED NAME	PLANTING RATE	DATES
1	COMMON BERUADA (HULLED) KENTUCKY 31 FESCUE	50 50	MARCH 15- AUGUST 14
2	COMMON BERUADA (HULLED) KENTUCKY 31 FESCUE RESEEDING CRIMSON CLOVER ANNUAL RYE GRASS RYE GRASS	50 50 20 5 20	MARCH 15- AUGUST 14

5. ALL REQUIRED LIME AND FERTILIZER SHALL BE THOROUGHLY AND EVENLY INCORPORATED WITH THE SOIL TO A MINIMUM DEPTH OF 4" BY DISCING OR OTHER APPROVED METHODS. IN AREAS INACCESSIBLE TO POWER EQUIPMENT, IT SHALL BE INCORPORATED WITH THE SOIL BY USE OF HAND TOOLS AND ROLLED. SOIL SHALL BE LEVELED OFF, RAKED SMOOTH, AND ROLLED FOR RECEPTION OF SEED.

6. SEED SHALL BE APPLIED BY AN ACCEPTED METHOD UTILIZING A MINIMUM OF 2 PASSES AT RIGHT ANGLES. RAKE SEED LIGHTLY IN TO THE TOP 1/8" OF SEED BED. PROTECT SEEDED AREAS AGAINST EROSION BY SPREADING STRAW TO A UNIFORM LOOSE DEPTH OF 1 1/2".

7. MAINTAIN GRASSING AS REQUIRED TO ESTABLISH A SATISFACTORY STAND OF GRASS. FOR PURPOSE OF GRASSING, A SATISFACTORY STAND OF GRASS IS DEFINED AS A FULL COVER OVER AREAS TO BE SEEDED, ALIVE AND GROWING, AND LEAVING NO BARE SPOTS LARGER THAN 3/4 SQUARE YARDS WITHIN A RADIUS OF 10 FEET.

EROSION CONTROL NOTES:

1. CONSTRUCTION SEQUENCE:

A. CONTACT CHEROKEE COUNTY ENGINEERING BEFORE START OF CONSTRUCTION.

B. MARK LIMITS OF DISTURBANCE AS SHOWN ON PLANS.

C. INSTALL STONE CONSTRUCTION ENTRANCE APRON.

D. INSTALL EROSION AND SEDIMENT PERIMETER CONTROLS.

E. CONSTRUCT TEMPORARY SEDIMENT BASIN, SEED AND MAT POND SLOPES PER DETAILS.

F. PERFORM ROAD GRADING / STORM DRAINAGE INSTALLATION.

G. INSTALL UTILITIES.

H. INSTALL TEMPORARY / PERMANENT GRASSING.

I. CONSTRUCT BUILDINGS

J. INSTALL ASPHALT.

K. PERMANENT GRASS SHALL BE INSTALLED FOR ALL AREAS AT FINAL GRADE.

L. MAINTAIN ALL SEDIMENT CONTROL MEASURES UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED.

M. AFTER COMPLETION OF CONSTRUCTION AND THE SITE IS STABILIZED, AND APPROVED BY CHEROKEE COUNTY, REMOVE ALL ACCUMULATED SEDIMENT FROM SEDIMENT TRAPPING MEASURES AND REMOVE ALL TEMPORARY SEDIMENT CONTROL DEVICES. CLEAN ANY ACCUMULATED SEDIMENT FROM POND AND CLOSE DRAIN.

N. AS BUILT PLANS WILL BE REQUIRED BY ENGINEER.

2. GRADING CONTRACTOR TO MAINTAIN EROSION CONTROL MEASURES UNTIL GRASSING IS ESTABLISHED. OWNER WILL BE RESPONSIBLE FOR EROSION CONTROL MAINTENANCE THEREAFTER.

3. CORPS PERMITS SHALL BE ACQUIRED BEFORE ANY WETLANDS OR WATERS OF THE STATE ARE TO BE DISTURBED. ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS. FURTHERMORE, NO SEDIMENT OR EROSION CONTROL DEVICES ARE TO BE PLACED IN WETLANDS OR WATERS OF THE STATE.

4. SOIL TYPE IS PADOLET (P+E) SANDY LOAM, CECIL (C1C2, C1D2) SANDY LOAM, AND DAVIDSON (D&C2) SANDY CLAY LOAM (HYDROLOGICAL SOIL GROUP "B")

5. THIS SITE IS TO BE MASS GRADED. DISTURBED AREA IS 44.9 ACRES AS DETERMINED BY CLOSED POLYLINE IN AUTOCAD.

6. OWNER: BNH STONECREST, LLC

23 CLEARVIEW DR.

BEDFORD, NS, BAA 3C3, CANADA

7. ALL DISTURBED AREAS SHALL RECEIVE TOP SOIL & BE GRASSED IN ACCORDANCE WITH THE SPECIFICATIONS SET FORTH IN THE LANDSCAPING NOTES IN THESE SITE PLANS.

8. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION.

9. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND SITE IS STABILIZED.

10. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE, MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW:

-WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS POSSIBLE.

-WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.

11. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED EVERY SEVEN (7) DAYS. DAMAGED OR INEFFECTIVE DEVICES SHALL BE REPAIRED OR REPLACED AS NECESSARY.

12. IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE. VEGETATIVE MATTING SHALL BE NORTH AMERICAN GREEN SC150 OR APPROVED EQUAL. GEOTEXTILE FILTER FABRIC SHALL BE MIRAFT 700K OR APPROVED EQUAL. CONTRACTOR SHALL SUBMIT, FOR APPROVAL, PROPOSED GEOTEXTILE FILTER FABRIC AND VEGETATIVE MATTING.

13. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO THE PAVED ROADWAY CONSTRUCTION AREAS. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, OR AS MAY BE REQUIRED.

14. TEMPORARY DIVERSION BERMS AND/OR DITCHES SHALL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.

15. SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR PROVIDE AN INDIVIDUAL PLAN MEETING SECTION R.72-307 OF THE STORMWATER MANAGEMENT AND SEDIMENT REDUCTION REGULATION, ORDINANCE NO. 497.

16. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.

17. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION.

18. ALL ROADWAY AND DRAINAGE CONSTRUCTION IS TO CONFORM TO THE "SPARTANBURG COUNTY STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS".

19. CONTRACTOR TO ENSURE POSITIVE DRAINAGE AT ALL INTERSECTIONS OF INTERNAL ROADS TO ENSURE THAT NO PONDING OCCURS.

20. SEE SCDEH STANDARD NOTES FOR ADDITIONAL INFORMATION.

SCDEH STANDARD NOTES

1. IF NECESSARY, SLOPES THAT EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDRO-SEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.

2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW:

-WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS, STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.

-WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.

3. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED EVERY SEVEN (7) DAYS. IF SITE INSPECTIONS IDENTIFY BMP'S THAT ARE DAMAGED OR ARE NOT OPERATING EFFECTIVELY, MAINTENANCE MUST BE PERFORMED AS SOON AS PRACTICAL OR AS REASONABLY POSSIBLE AND BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE.

4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE SEDIMENTS BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.

5. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.

6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT AS MAY BE REQUIRED.

7. RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG. 72-300 ET SEQ. AND SCR100000.

8. TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVER SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.

9. ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50- FOOT BUFFER CANNOT BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.

10. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.

11. CONTRACTORS ARE REQUIRED TO HAVE RAIN GAUGES AT THE CONSTRUCTION SITE AND THE RAIN TOTALS DOCUMENTED FOR REVIEW BY SPARTANBURG COUNTY AND SCDEH.

12. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD WITH SPARTANBURG COUNTY AT LEAST 48 HOURS PRIOR TO BEGINNING ANY LAND DISTURBING ACTIVITIES. THE OWNER, DESIGN ENGINEER AND CONTRACTOR MUST BE PRESENT AND HAVE OBTAINED THE STORM WATER PERMIT, STAMPED APPROVED PLANS AND THE NOI APPROVAL LETTER FROM SCDEH BEFORE CALLING SPARTANBURG COUNTY AT 864-595-5320 TO SCHEDULE THIS MEETING.

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES BY CALLING PALMETTO UTILITY LOCATION SERVICE AT 1-800-922-0983 AT LEAST THREE (3) DAYS PRIOR TO CONSTRUCTION.

2. THE CONTRACTOR SHALL NOTIFY THE ENGINEER SHOULD ANY DISCREPANCIES BE DISCOVERED AT THE SITE OR ON THE DRAWINGS.

3. EARTHWORK SHALL BE TO THE LINES AND GRADES SHOWN. ALL PROPOSED ELEVATIONS SHOWN ARE FINISH GRADE ELEVATIONS. THE GRADING CONTRACTOR SHALL DEDUCT FOR APPROPRIATE SUBGRADE.

4. EXCAVATION SHALL BE CLASSIFIED AS FOLLOWS:

MASS ROCK: ANY MATERIAL WHICH CANNOT BE EXCAVATED WITH A SINGLE TOOTH RIPPER DRAWN BY A CRAWLER TRACTOR HAVING A MINIMUM DRAW PULL RATED AT NOT LESS THAN 56,000 LBS. (CAT D-8 OR EQUIVALENT) AND OCCUPYING AN ORIGINAL VOLUME OF AT LEAST 1 CUBIC YARD OR MORE.

TRENCH ROCK: ANY MATERIAL WHICH CANNOT BE EXCAVATED WITH A TRACK MOUNTED BACKHOE WITH A BUCKET CURLING FORCE OF NOT LESS THAN 20,760 LBS. (CAT 325 OR EQUIVALENT) AND OCCUPYING AN ORIGINAL VOLUME OF AT LEAST 1/2 CUBIC YARD OR MORE.

COMMON: MATERIAL WHICH DOES NOT FALL INTO THE CLASSIFICATIONS AS CLASSIFIED ABOVE.

5. SHOULD ROCK, AS DEFINED IN NOTE 4 ABOVE, BE ENCOUNTERED, ENGINEER SHALL BE NOTIFIED PRIOR TO EXCAVATION OF ROCK FOR ESTABLISHMENT OF MEASUREMENT AND PAYMENT PROCEDURES.

6. FILL MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY AT A MOISTURE CONTENT OF 42% OF OPTIMUM.

7. THE UPPER 12 INCHES OF SUBGRADE IN FLOOR SLAB AND PAVEMENT AREAS SHALL BE COMPACTED TO A MINIMUM OF 98% OF THE STANDARD PROCTOR.

8. COMPACTED FILL SHALL BE TESTED DURING PLACEMENT TO ENSURE PROPER DEGREE OF COMPACTION.

9. COMPACTION TESTS SHALL BE PERFORMED AT A MINIMUM OF ONE TEST PER TWO VERTICAL FEET OF FILL MATERIAL PLACED.

10. THE CONTRACTOR SHALL ARRANGE FOR AND COORDINATE COMPACTION TESTS AND SUPPLY RESULTS TO THE ENGINEER AS A CONDITION TO PRELIMINARY AND/OR FINAL APPROVALS. INITIAL COMPACTION TESTS SHALL BE CONDUCTED AT THE OWNER'S EXPENSE. RETESTING REQUIRED DUE TO POOR COMPACTION SHALL BE CONDUCTED AT THE CONTRACTOR'S EXPENSE.

11. CONTRACTOR SHALL PROOF ROLL THE CONSTRUCTION AREA WITH HEAVY PNEUMATIC EQUIPMENT IN THE PRESENCE OF THE GEOTECHNICAL PROFESSIONAL PRIOR TO PLACING PAVING MATERIAL. ALL SOFT SPOTS SHALL BE UNDERCUT, REPLACED WITH STRUCTURAL FILL MATERIAL AND RECOMPACTED TO THE REQUIRED DENSITIES.

12. CONTRACTOR SHALL REMOVE TOPSOIL AS NECESSARY (MINIMUM OF 4" OR AS DIRECTED BY GEOTECHNICAL ENGINEER) TO PROVIDE ADEQUATE SUBGRADE.

13. PAVING PER DETAILS

14. THE CONTRACTOR SHALL CONDUCT ALL WORK IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.

15. -OMITTED-

16. ALL WORK IN OR ON STATE OR COUNTY RIGHT-OF-WAY REQUIRES AN ENCROACHMENT PERMIT FROM THE APPROPRIATE AGENCY.

17. CONTOUR INFORMATION FROM GREENVILLE COUNTY GIS. CONTRACTOR SHALL VERIFY ALL GRADES PRIOR TO COMMENCEMENT OF WORK. ALL DISCREPANCIES SHALL BE REPORTED TO ENGINEER BEFORE PROCEEDING WITH WORK.

18. ALL EROSION CONTROL MEASURES SHOWN AND STATED ON THIS PLAN ARE TO BE IMPLEMENTED THROUGH FINAL INSPECTION.

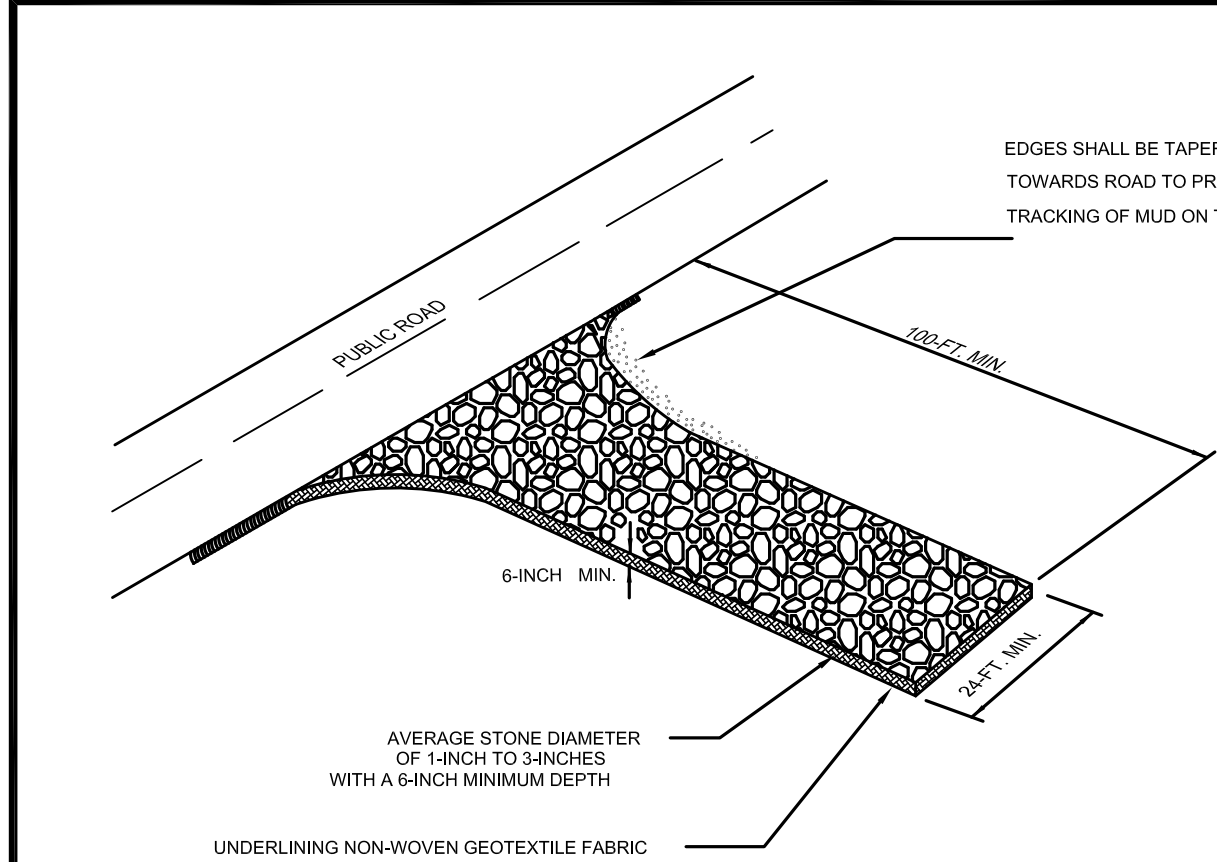
19. GRASSING SHALL BE IN ACCORDANCE WITH THE LANDSCAPING NOTES PRIOR TO CONSIDERATION FOR PROGRESS PAYMENTS AND/OR FINAL APPROVAL/ACCEPTANCE.

20. FINAL PAYMENT TO THE CONTRACTOR WILL NOT BE RELEASED UNTIL THE PROJECT HAS BEEN ACCEPTED BY THE OWNER, ENGINEER AND THE LOCAL AGENCY HAVING JURISDICTION.

21. GRASS SWALES SHALL HAVE A MINIMUM SLOPE OF 1%.

22. ALL BUILDING PADS SHALL BE GRADED SUCH THAT POSITIVE DRAINAGE IS MAINTAINED.

23. CONTRACTOR SHALL REMOVE ALL COLLECTED SILT AND/OR SEDIMENT FROM POND AND AROUND OUTLET STRUCTURE AND REPAIR/REPLACE STONE PROTECTION AROUND LOW FLOW ORIFICE UPON STABILIZATION OF SITE.



STABILIZED CONSTRUCTION ENTRANCE
STANDARD DRAWING NC-C-06 Page 1 of 3

STABILIZED CONSTRUCTION ENTRANCE

When and Where to Use It

Stabilized construction entrances should be used at all points where traffic will be leaving a construction site and moving directly onto a public road.

Important Considerations

If washing is used, provisions must be made to intercept the wash water and trap the sediment before it is carried offsite. Washdown facilities shall be required as directed by governing agency as needed. Washdown areas in general must be established with crushed gravel and drain into a sediment trap or sediment basin. Construction entrances should be used in conjunction with the stabilization of construction roads to reduce the amount of mud picked up by vehicles.

Installation:

Remove all vegetation and any objectionable material from the foundation area.

Divert all surface runoff and drainage from stones to a sediment trap or basin.

Install a non-woven geotextile fabric prior to placing any stone.

Install a culvert pipe across the entrance when needed to provide positive drainage.

The entrance shall consist of 1-inch to 3-inch D50 stone placed at a minimum depth of 6-inches.

Minimum dimensions of the entrance shall be 24-feet wide by 100-feet long, and may be modified as necessary to accommodate site constraints.

The edges of the entrance shall be tapered out towards the road to prevent tracking of mud at the edge of the entrance.

STABILIZED CONSTRUCTION ENTRANCE
STANDARD DRAWING NC-C-06 Page 2 of 3

STABILIZED CONSTRUCTION ENTRANCE

Inspection and Maintenance:

Inspect construction entrances every seven (7) calendar days and within 24-hours after each rainfall event that produces 1/8-inches or more of precipitation, or after heavy use. Check for mud and sediment buildup and pad integrity. Make daily inspections during periods of wet weather. Maintenance is required more frequently in wet weather conditions. Reshape the stone pad as needed for drainage and runoff control.

Wash or replace stones as needed and as directed by the inspector. The stone in the entrance should be washed or replaced whenever the entrance fails to reduce mud being carried off-site by vehicles. Frequent washing will extend the useful life of stone.

Immediately remove mud and sediment tracked or washed onto public roads by brushing or sweeping. Flushing should only be used when the water can be discharged to a sediment trap or basin.

Repair any broken pavement immediately.

STABILIZED CONSTRUCTION ENTRANCE
STANDARD DRAWING NC-C-06 Page 3 of 3

REVISION

NO. DATE

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PROJECT:

SHEET TITLE:

Stonecrest Apartments
Expansion
Cherokee County, SC

Details

SCALE: NTS PROJECT NO. 10042
DRAWN: MEH SHEET NO. 12-13-12
DATE:

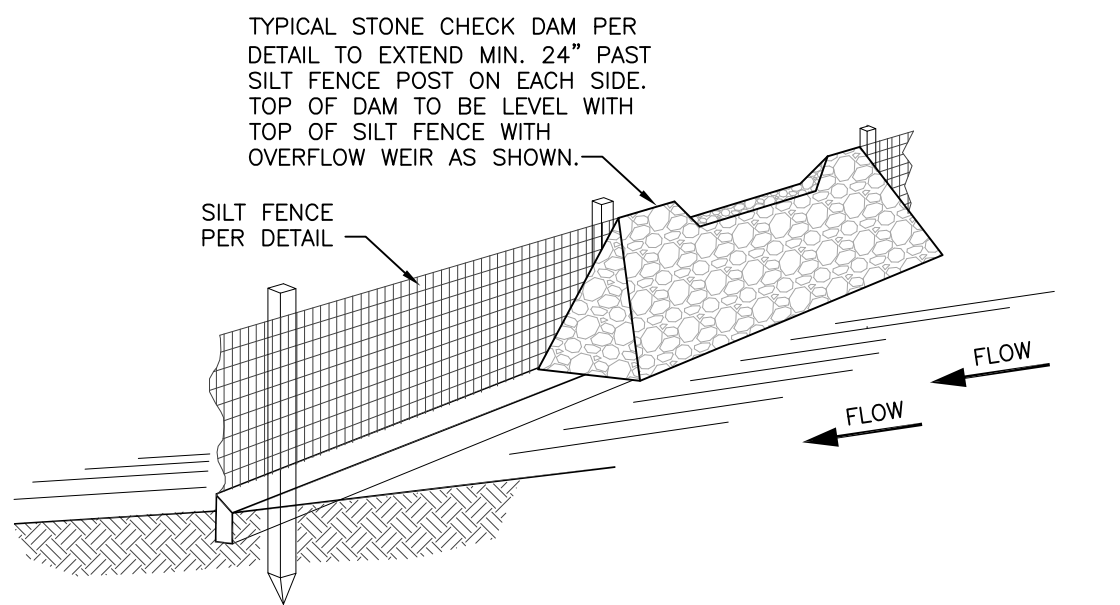
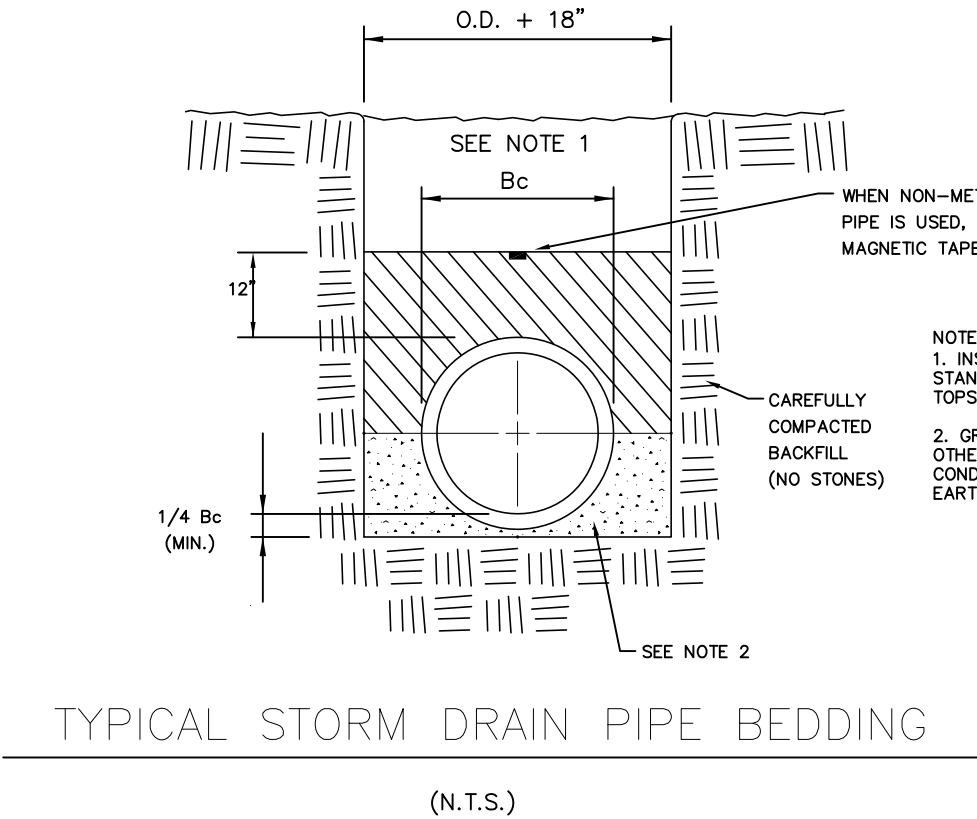
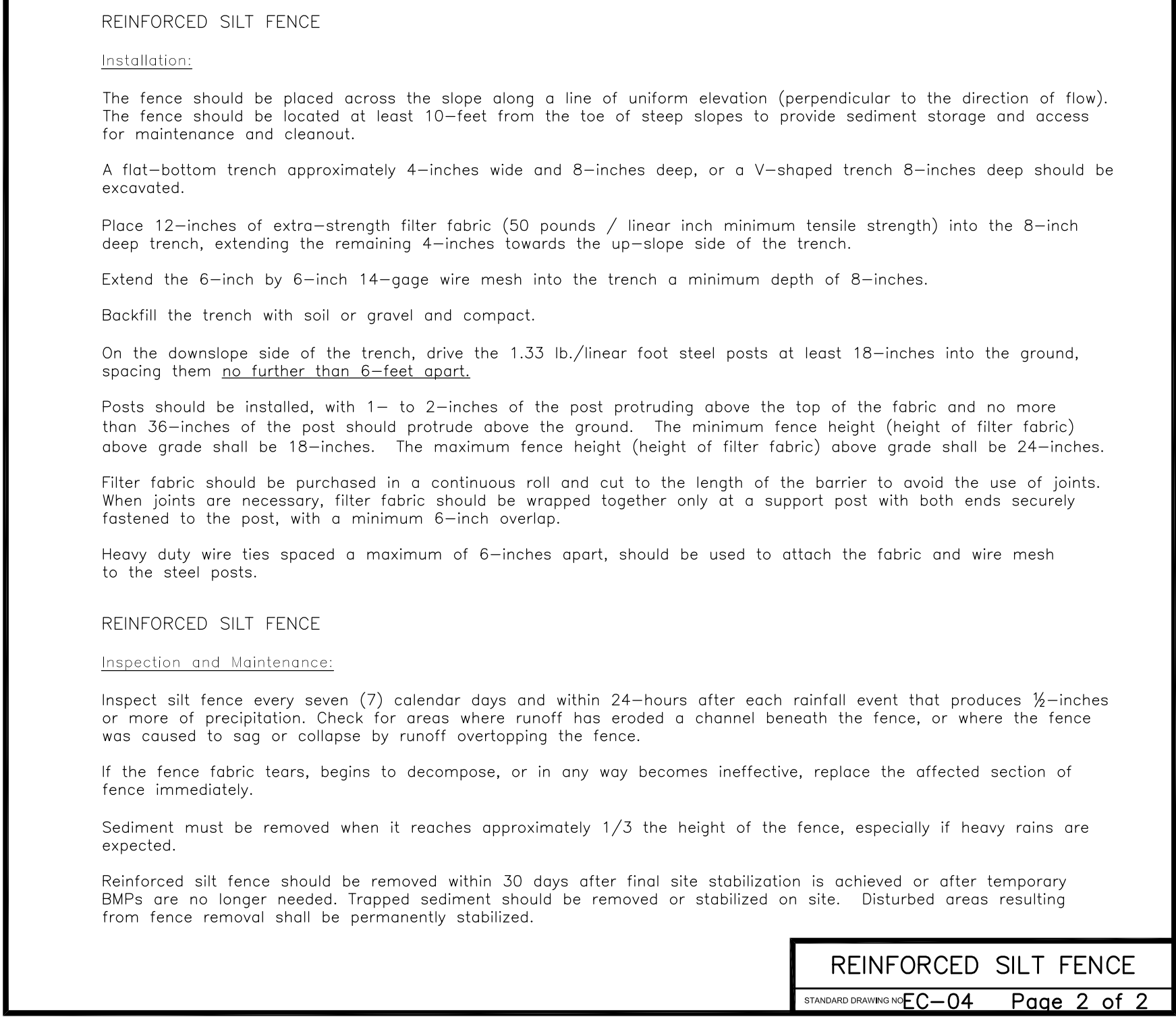
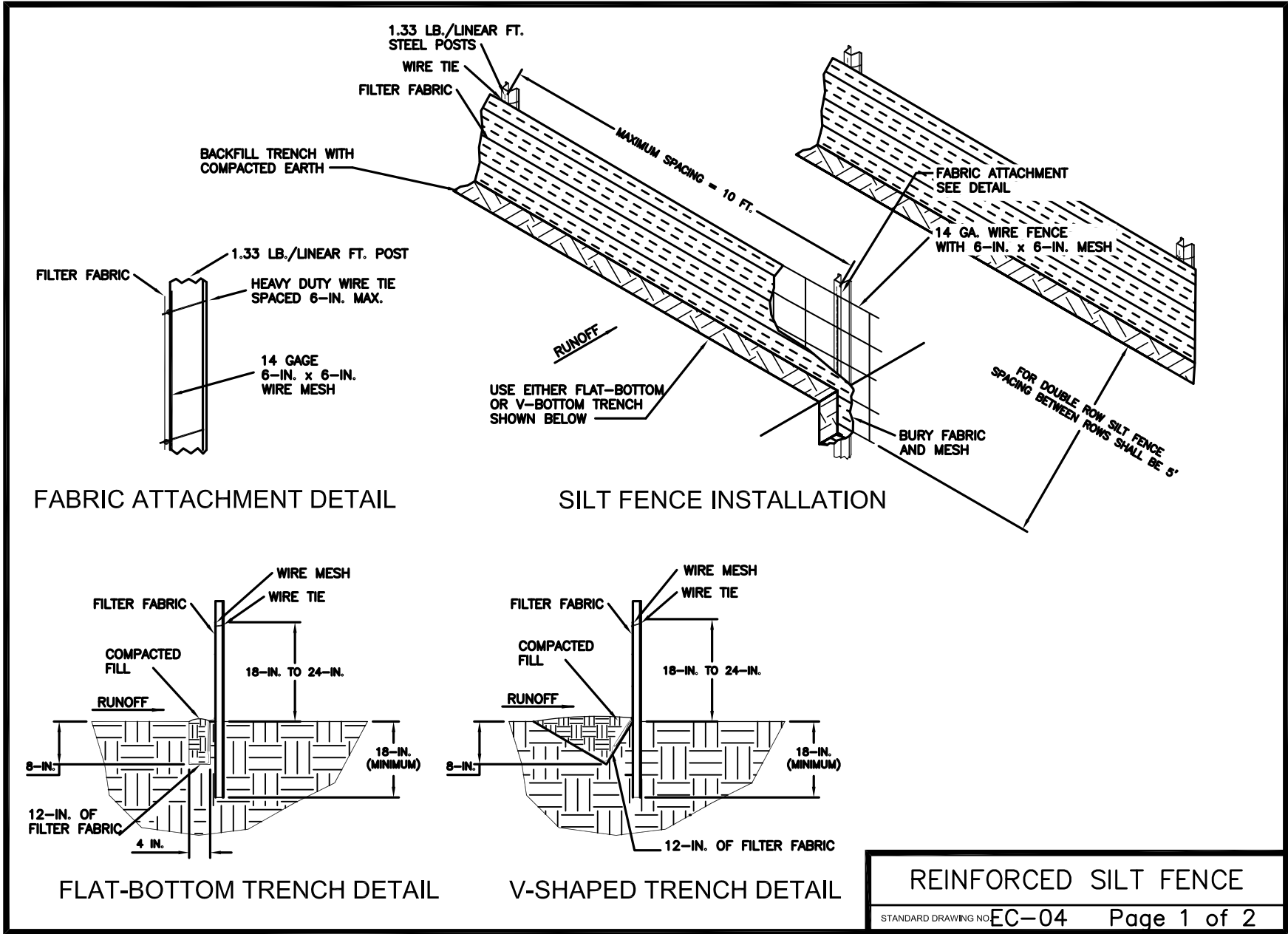
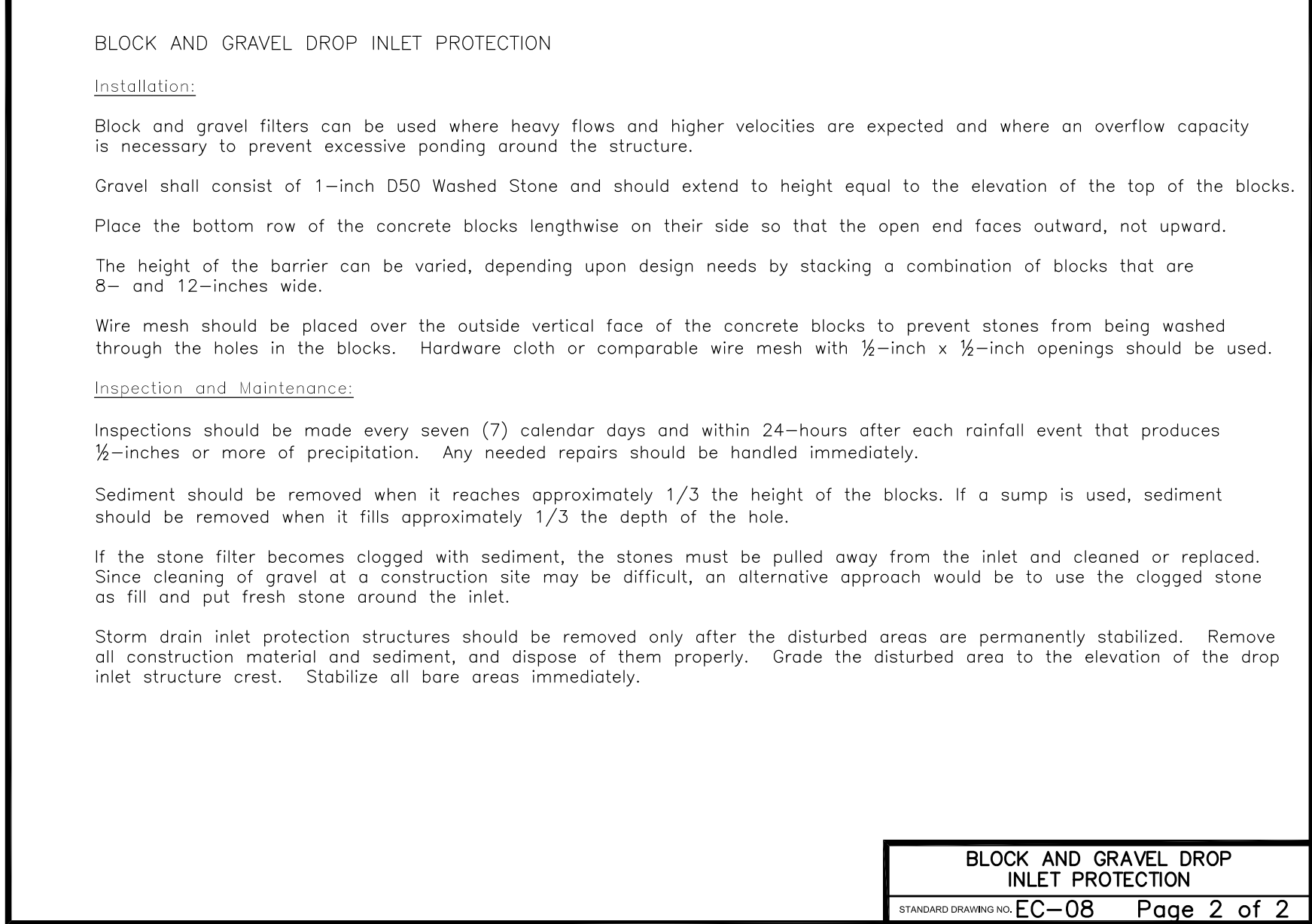
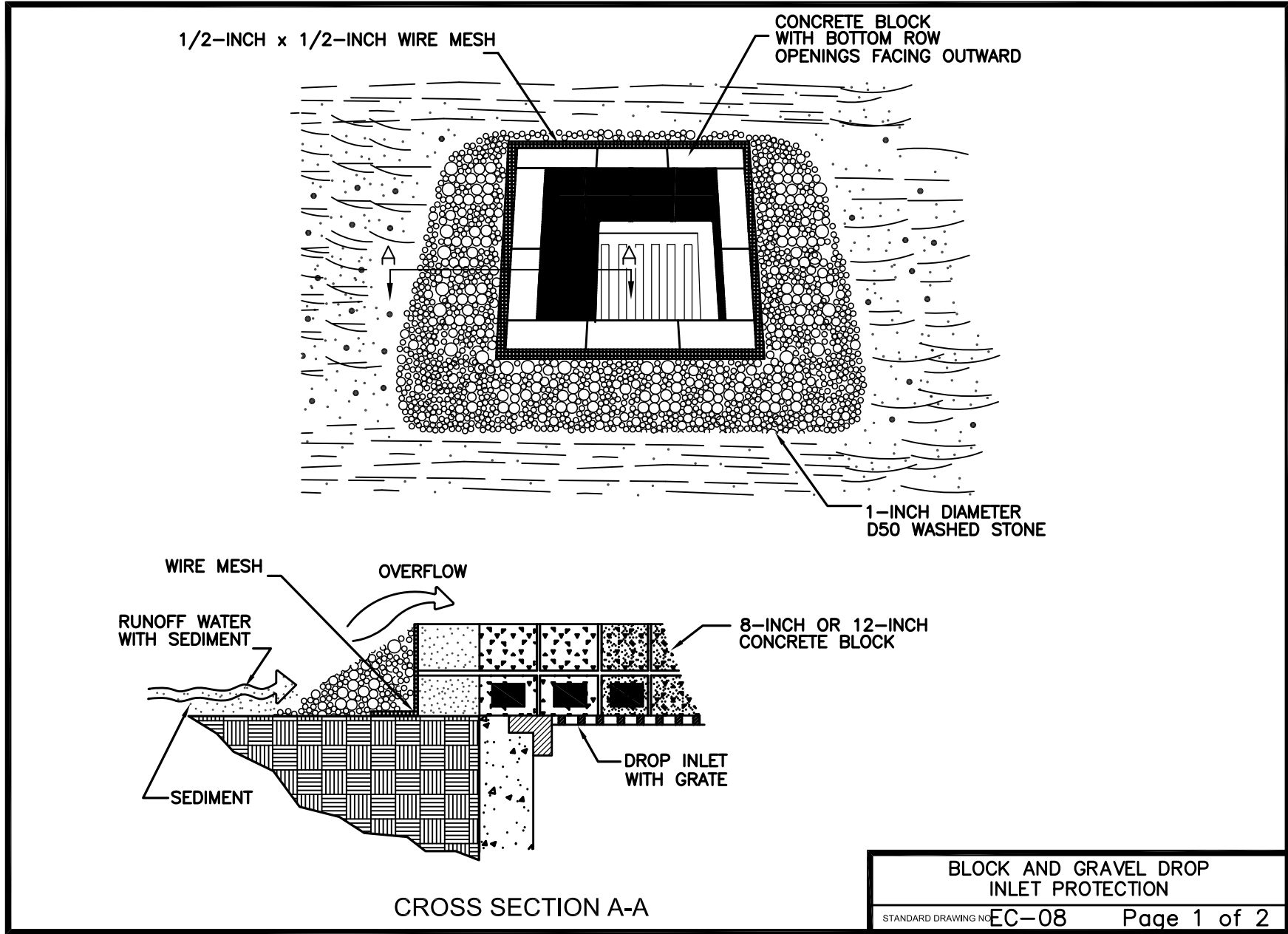
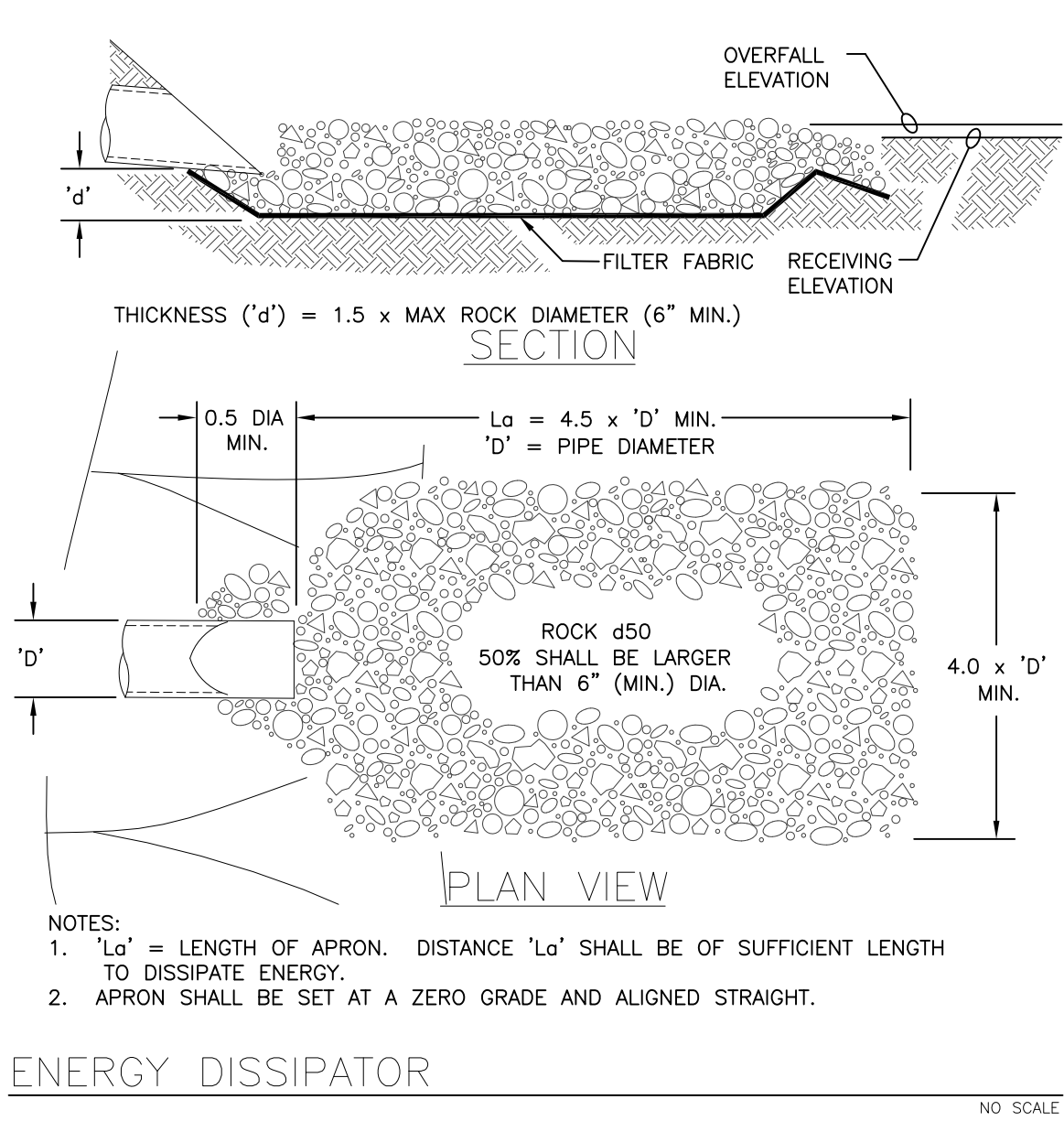
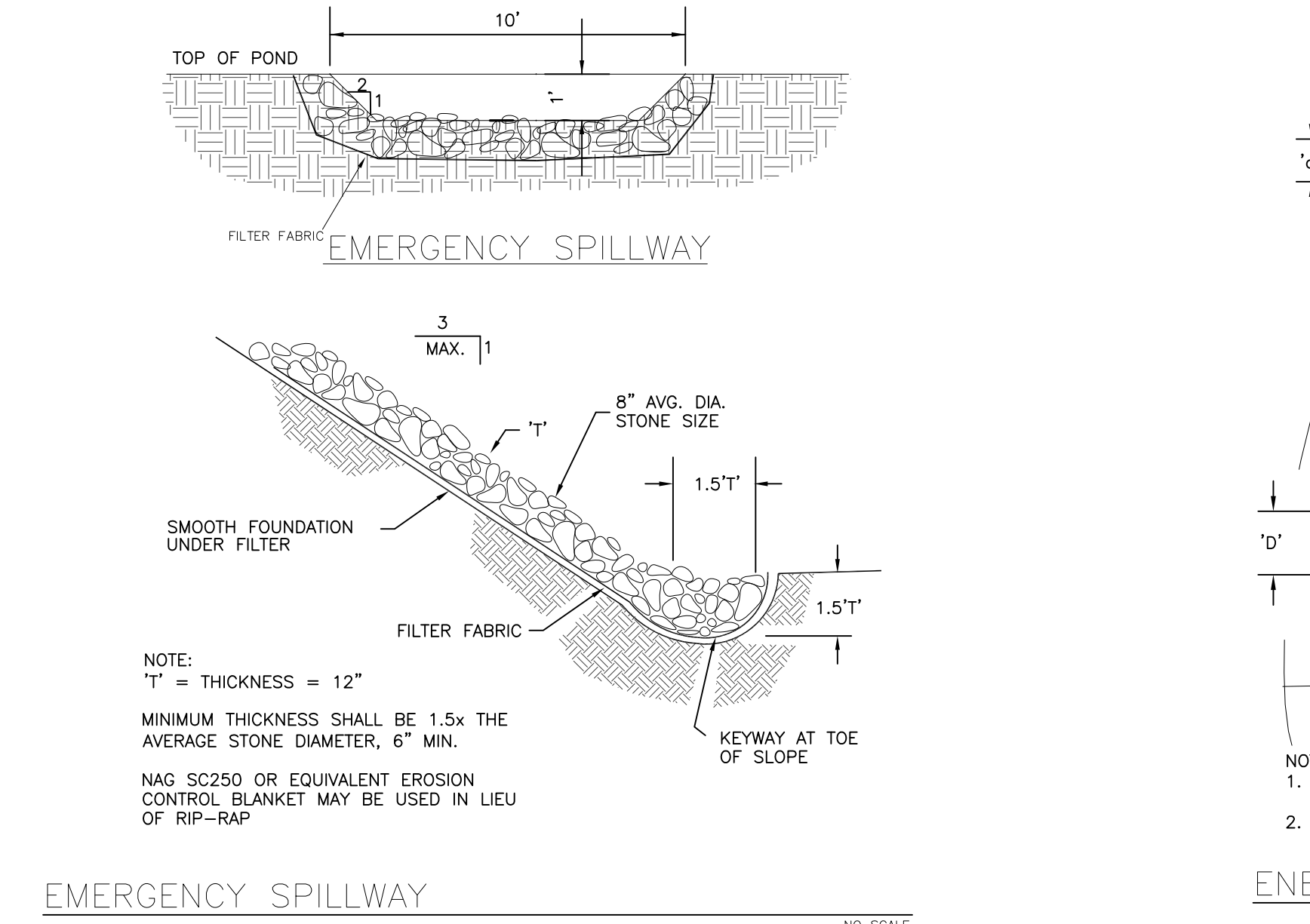
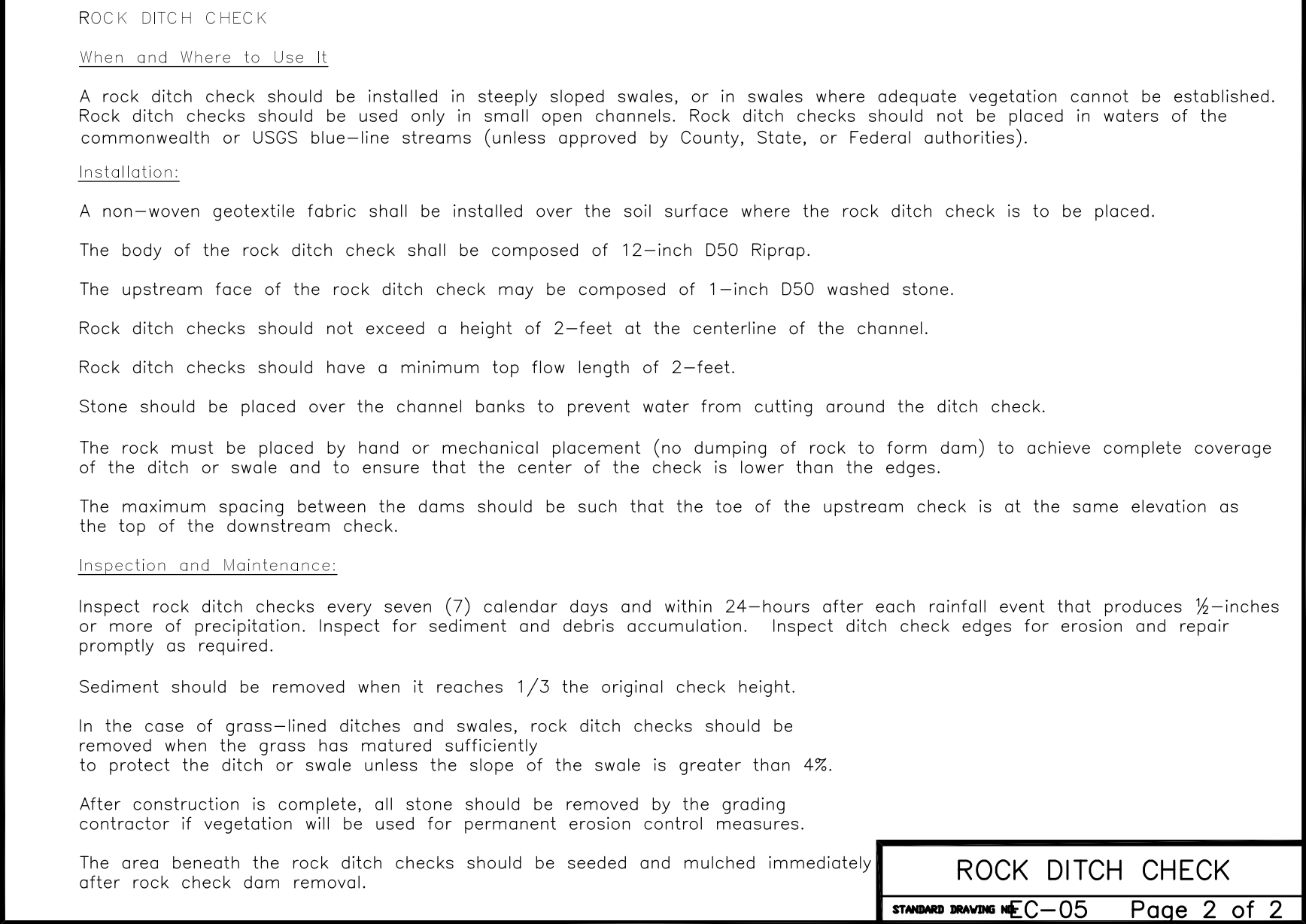
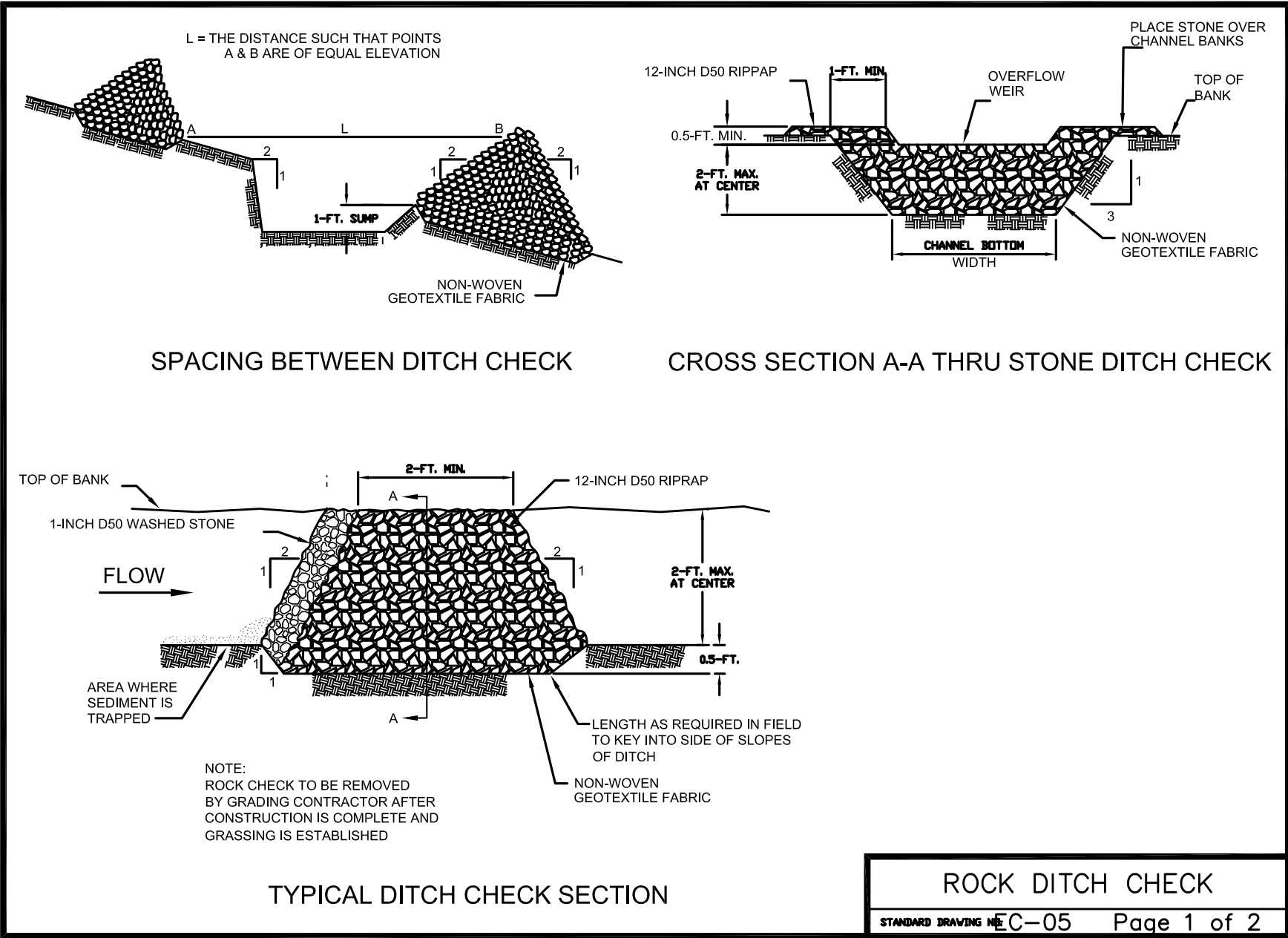
CV-6

BLUE LINE
CONSULTING, LLC

4503 N. HWY. 14
GREER, SC 29651
(864) 884-2158

ENGINEER SEAL

CORPORATE SEAL



BLUE LINE
CONSULTING, LLC
4503 N. HWY. 14
GREER, SC 29651
(864) 884-2158

ENGINEER SEAL
CORPORATE SEAL

NO.	DATE	REVISION
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Stonecrest Apartments
Expansion
Cherokee County, SC

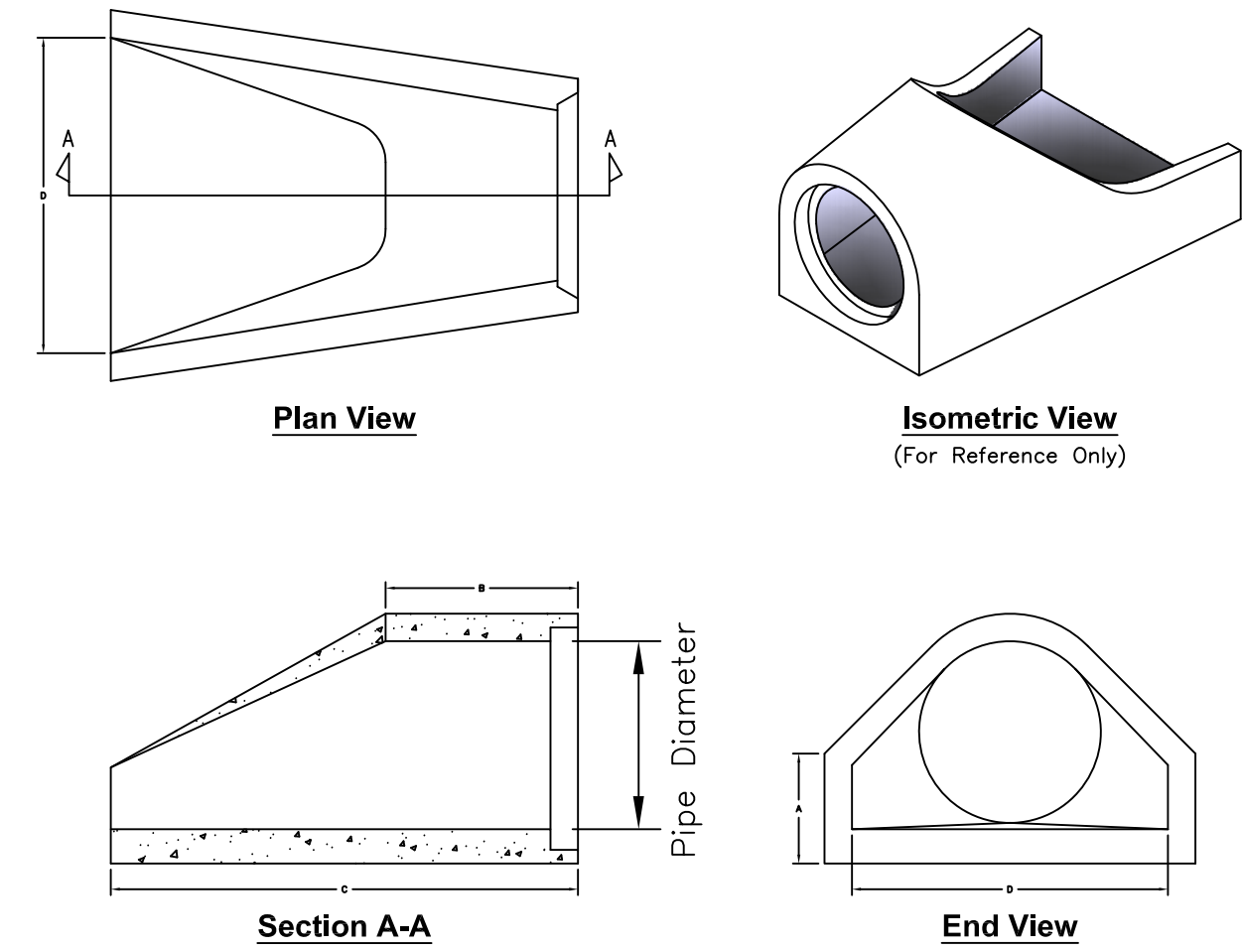
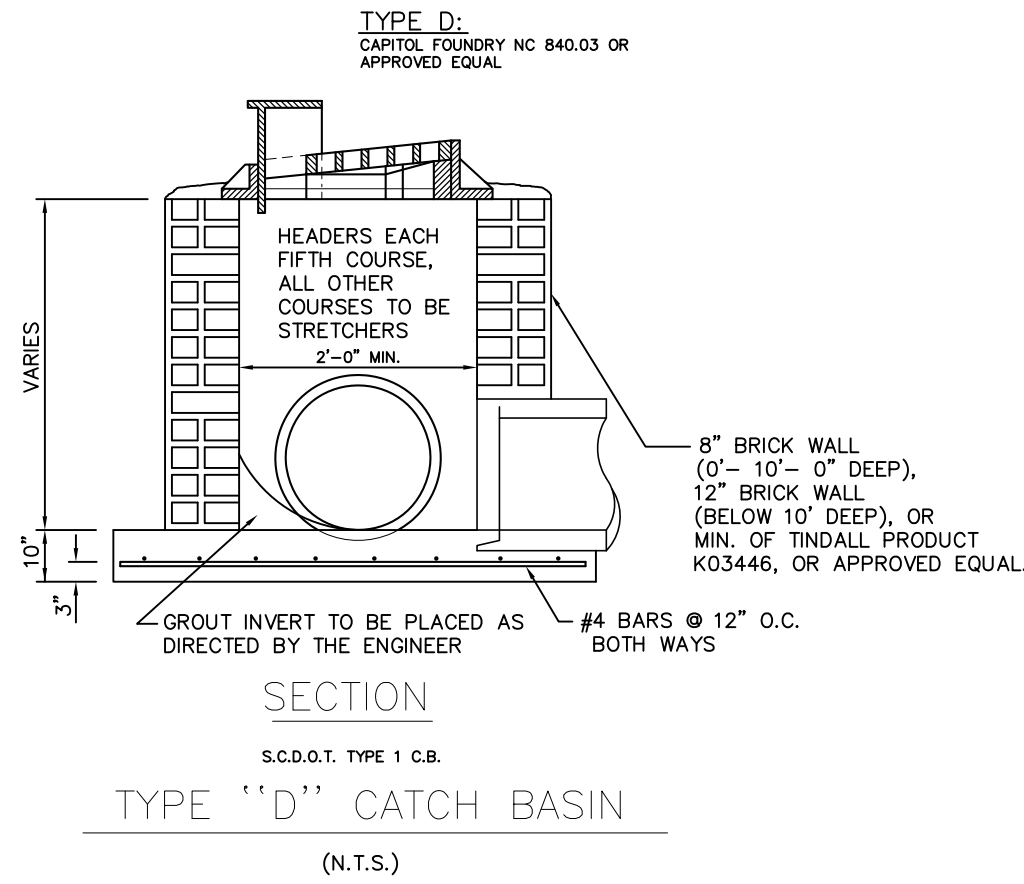
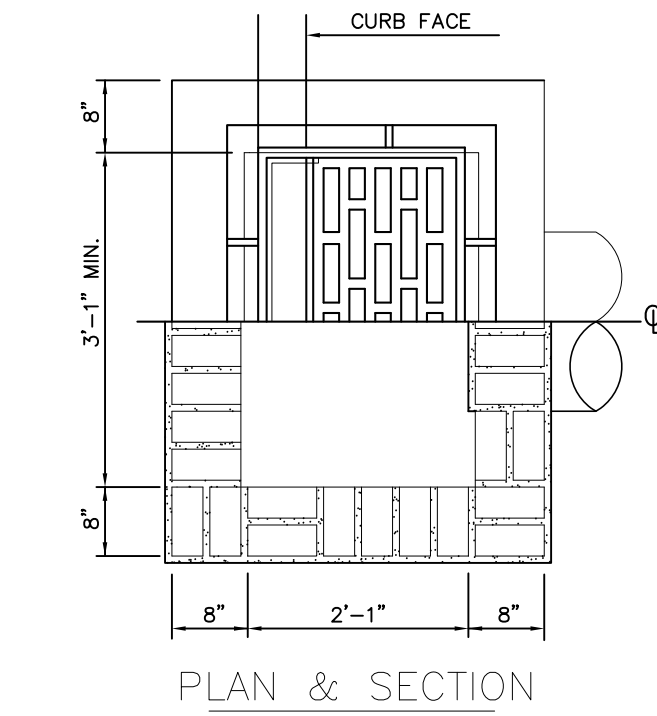
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PROJECT:

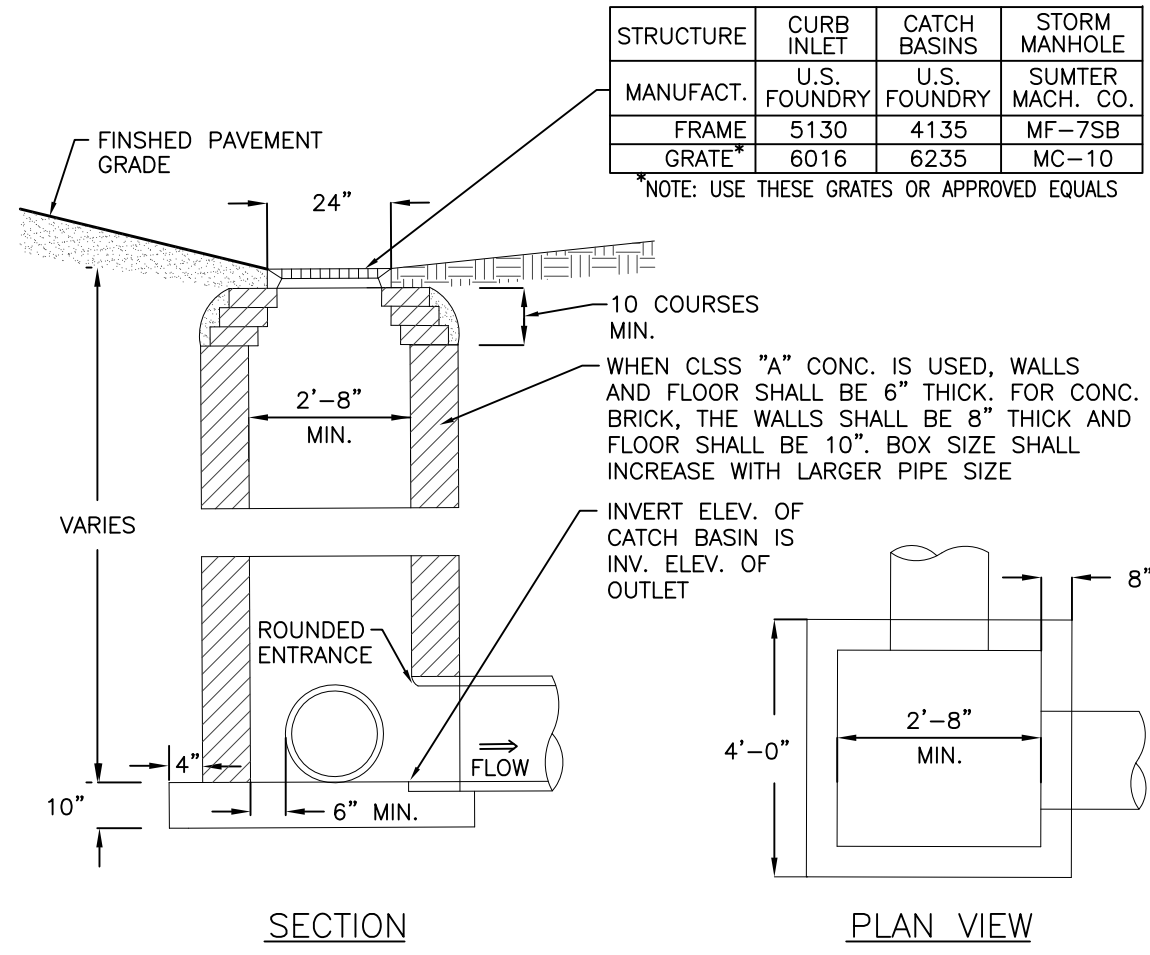
NTS PROJECT NO. 10042
DRAWN: MEH
DATE: 12-13-12

CV-7

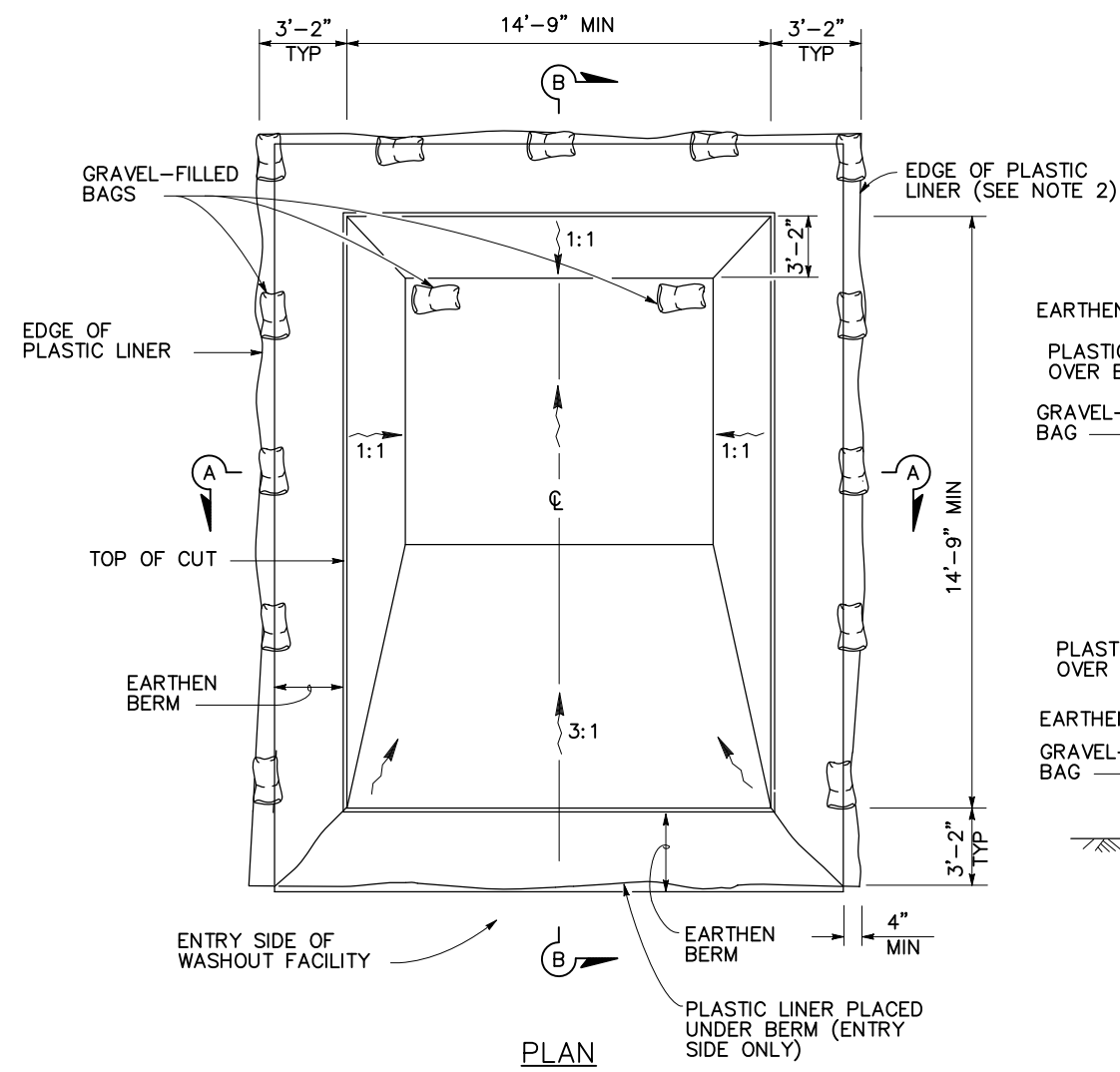
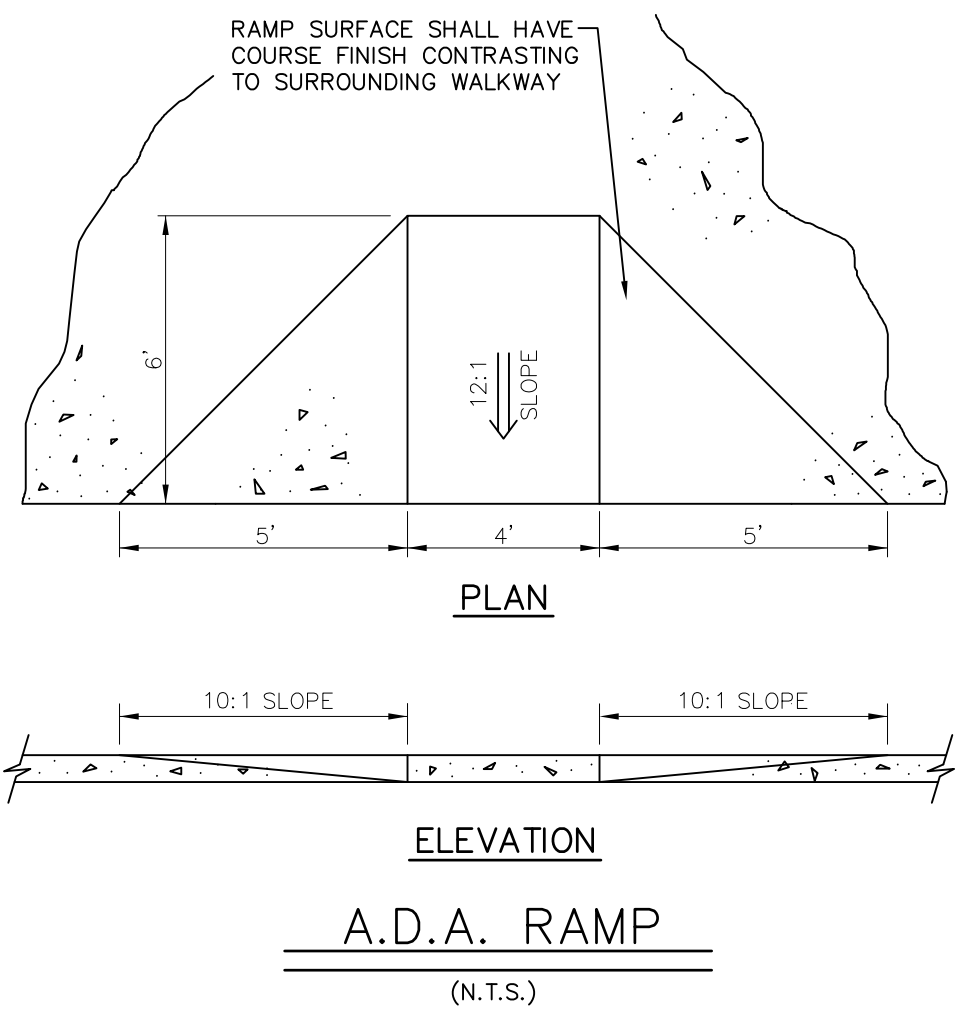
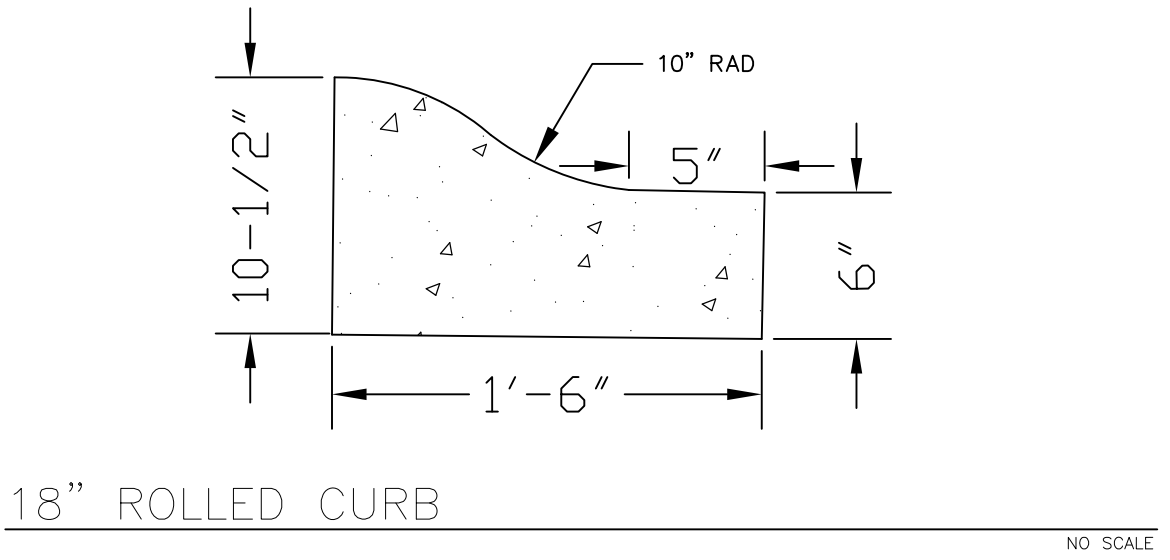
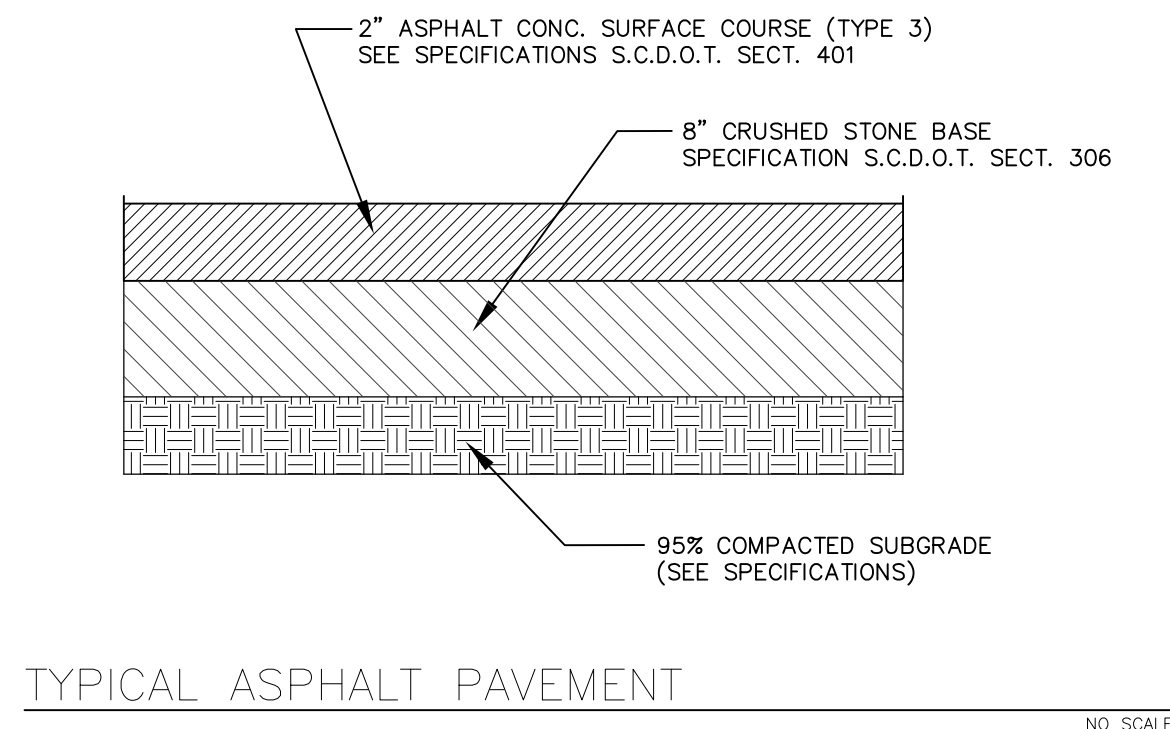
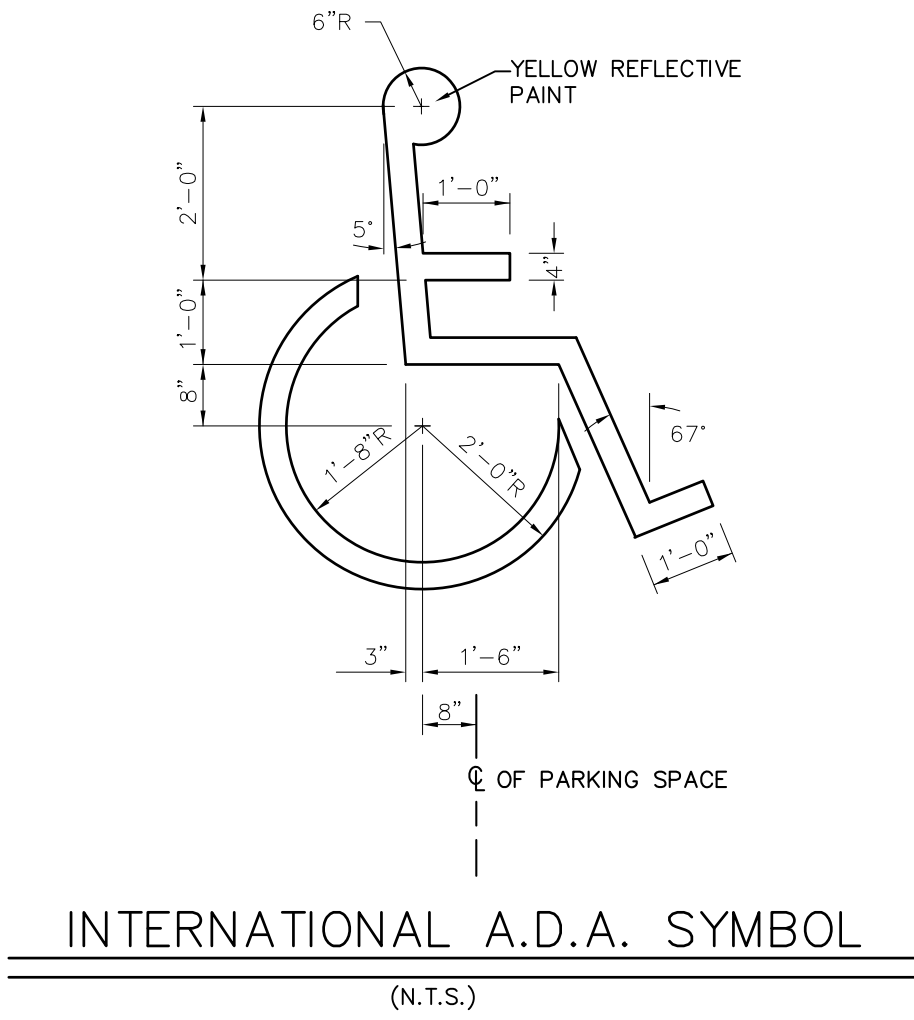


Pipe Dia. (In.)	Dimension A (In.)	Barrel Length B (In.)	Lay Length C (In.)	Flair Width D (In.)	Weight (lbs.)
12"	4.00"	45.40"	72.00"	24.0"	1350 lbs.
15"	6.00"	42.50"	72.00"	30.0"	1930 lbs.
18"	10.0"	46.00"	73.00"	36.0"	2160 lbs.
24"	12.0"	30.00"	73.50"	48.0"	3060 lbs.
30"	14.0"	19.75"	73.75"	60.0"	4320 lbs.
36"	18.0"	34.75"	97.75"	72.0"	7640 lbs.
42"	21.0"	29.50"	96.00"	78.0"	11,000 lbs.
48"	24.0"	20.30"	96.00"	84.0"	12,100 lbs.
54"	27.0"	25.50"	96.00"	90.0"	10,600 lbs.
60"	30.0"	30.50"	96.00"	96.0"	12,770 lbs.
72"	34.0"	11.50"	96.00"	108.0"	16,875 lbs.

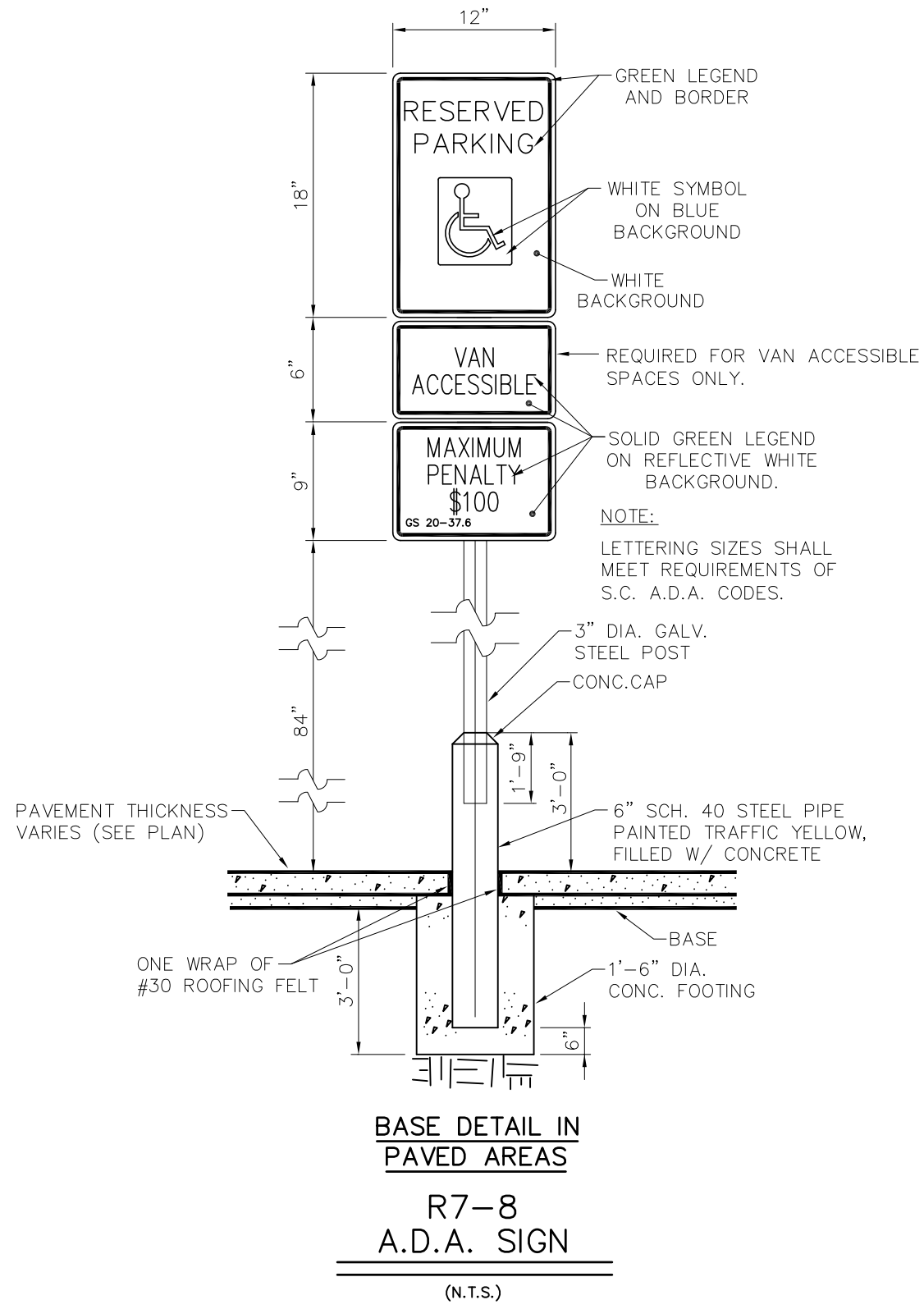
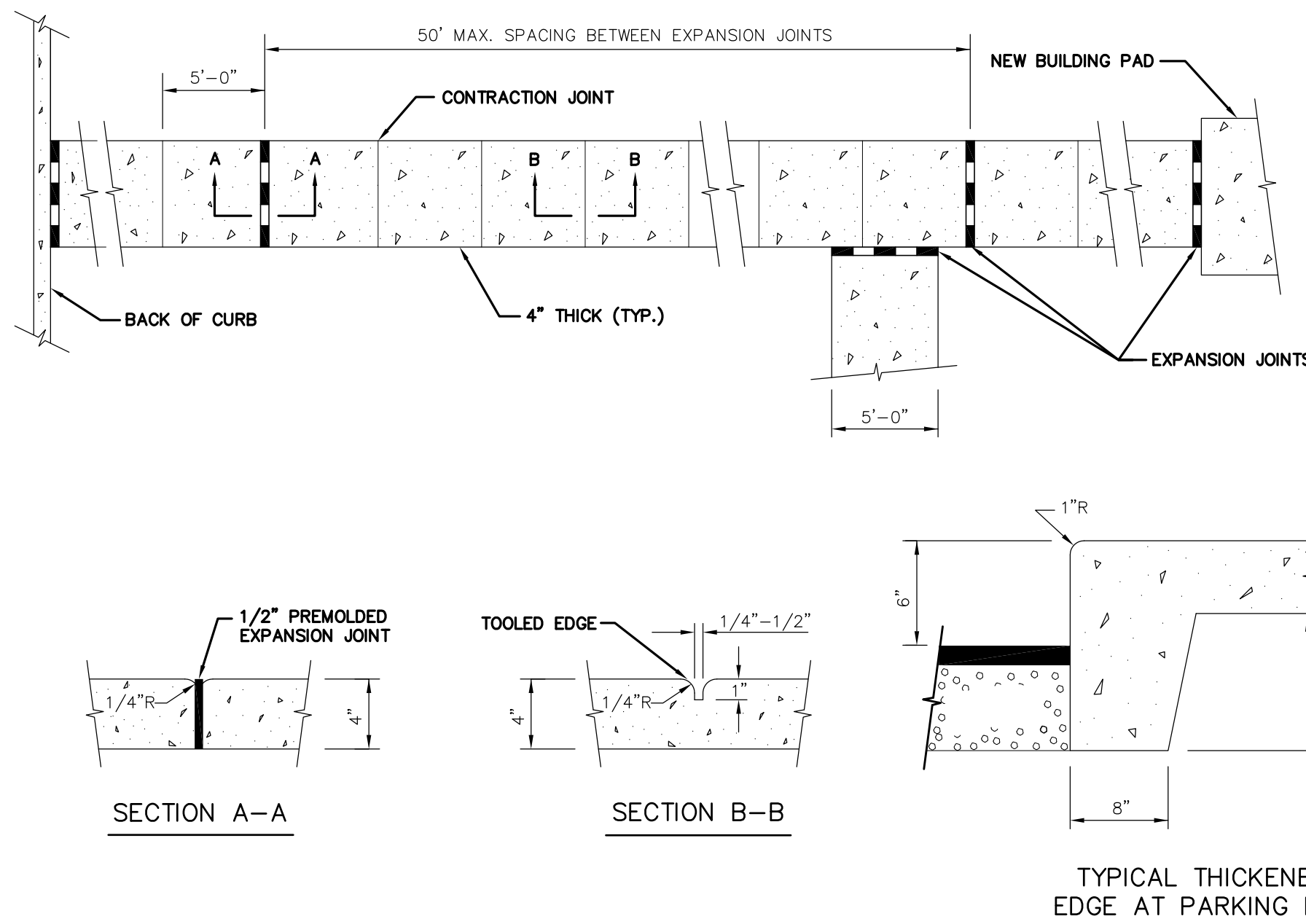
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NO SCALE



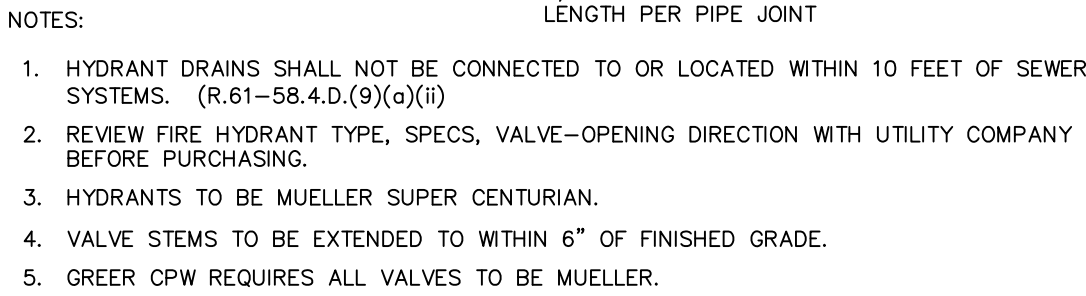
TYPE B - STANDARD CATCH BASIN
TYPE C - STORM DRAIN MANHOLE
NO SCALE



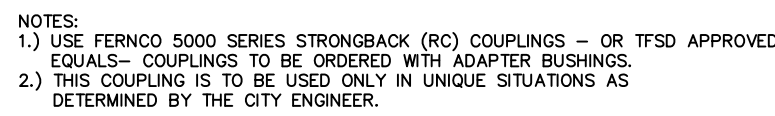
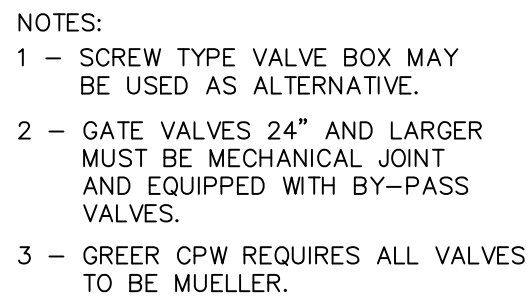
TEMPORARY CONCRETE WASHOUT
NO SCALE



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(N.T.S.)



NO SCALE

ELEVATION

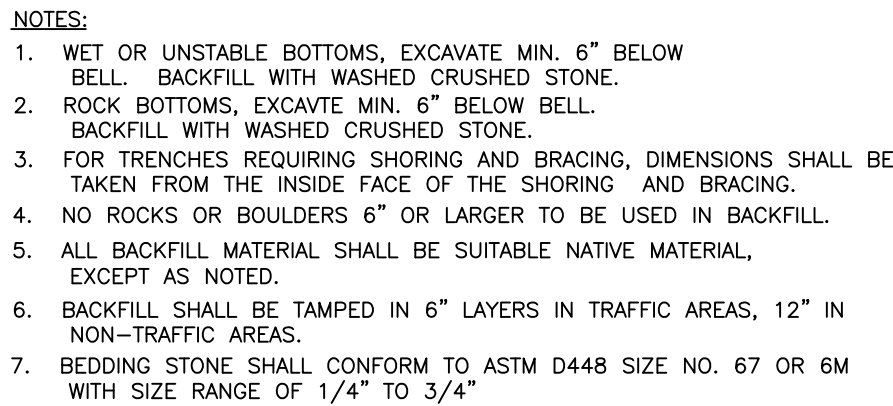
BEND PIPE DIA.		BEND 22-1/2"	BEND 45°	BEND 90°	PLUG TEE OR 60° BEND
2"-4"	0.7	1.3	2.5	4.7	3.3
6"	1.5	2.9	5.7	10.6	7.5
8"	2.8	5.0	9.8	18.2	12.9
10"	3.8	7.5	14.8	27.4	19.3
12"	5.4	10.7	20.9	38.7	27.4
14"	7.4	14.6	28.6	52.8	37.4
16"	9.3	18.5	36.4	67.2	47.5

SOIL	MIN. SAFE BEARING TONS/FT. ²
ROCK, HARD THICK LAYERS	200
ROCK, EQUAL GOOD MASONRY	25
ROCK, EQUAL BEST BRICK	15
ROCK, EQUAL POOR BRICK	5
CLAY, ALWAYS DRY	4
CLAY, FAIRLY DRY	2
CLAY, SOFT	1
GRAVEL, COARSE SAND, FIRM	8
SAND, COMPACT, FIRM	4
SAND, CLEAN, DRY	2
QUICKSAND, ALLUVIAL SOIL	1/2

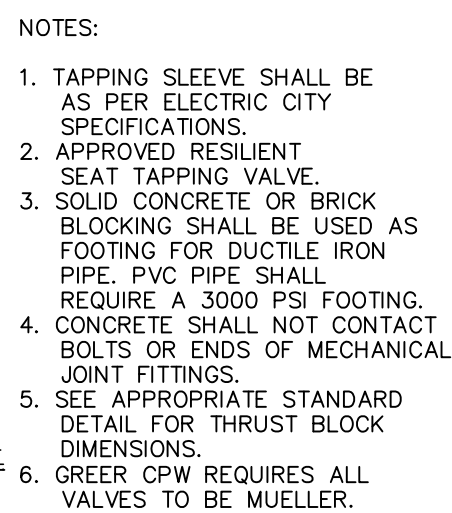
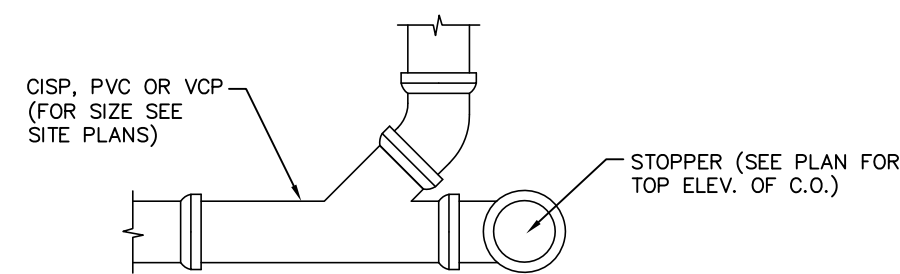
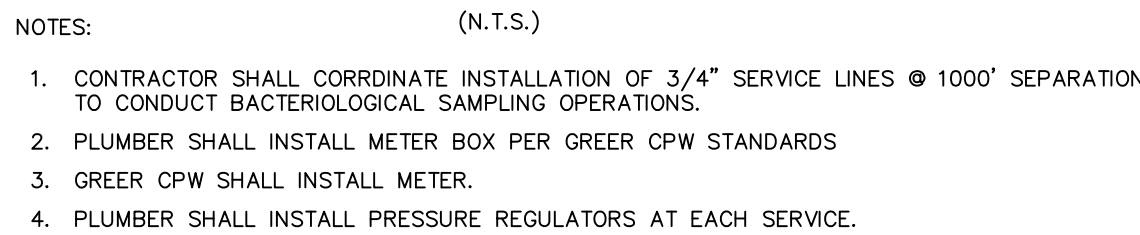
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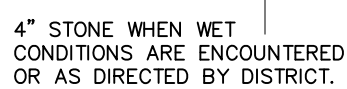
FOR SDR-35 PVC PIPE & PVC GRAVITY PIPE



TAPPING SLEEVE AND VALVE ASSEMBLY



(N.T.S.)



MANHOLE WITH CONCRETE BOTTOM

(N.T.S.)

1. LAY MAINS WITH MINIMUM 3' COVER.
2. LOCATION OF UTILITIES IS BASED ON INFORMATION SUPPLIED BY THE UTILITY COMPANIES. CONTRACTOR TO CONTACT P.U.P.S FOR VERIFICATION OF UTILITIES PRIOR TO CONSTRUCTION.
3. MAINTAIN MINIMUM 6' VERTICAL SEPARATION WHEN CROSSING OTHER UTILITIES, STORM DRAINS, E.T.C. 18" VERTICAL OR 10' HORIZONTAL WHEN CROSSING SANITARY SEWERS.
4. ALL PIPE SHALL BE DUCTILE IRON PIPE IN ACCORDANCE WITH A.W.W.A. C151-91. THE LAST JOINT SHALL HAVE A WELDED-ON THRUST COLLAR AS INDICATED BY THE CONCRETE COLLAR DETAIL.
5. THE CONTRACTOR IS RESPONSIBLE FOR MAKING ALL TAPS, INCLUDING THE MAIN LINE TAP.
6. ALL HORIZONTAL AND VERTICAL BENDS, TEES, TAPS, ETC. ARE TO HAVE THRUST BLOCKING OR AN APPROVED RESTRAINT MECHANISM.
7. HYDRANTS TO BE MUELLER CENTURION - OPEN LEFT.
8. GATE VALVES TO BE MUELLER.