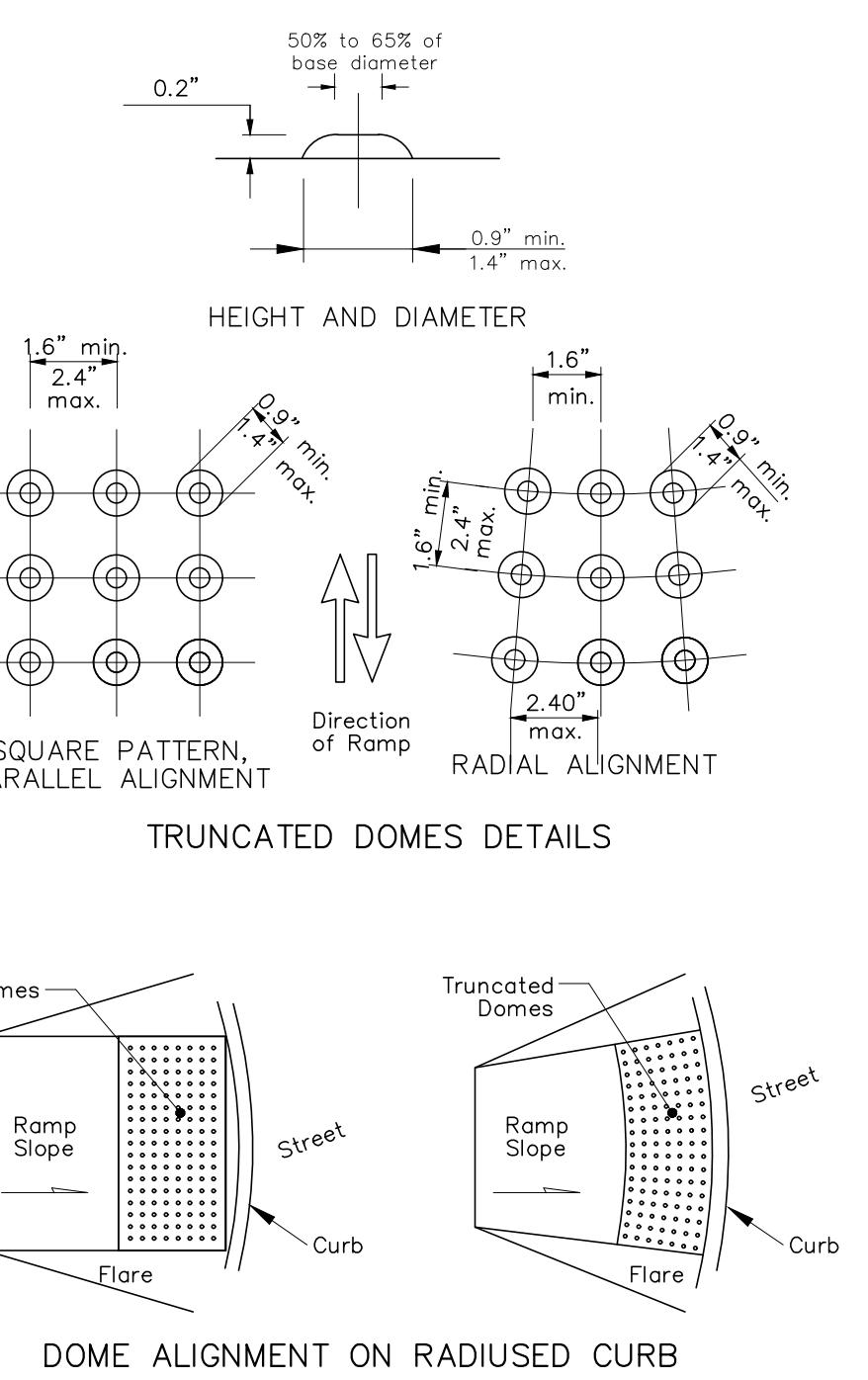


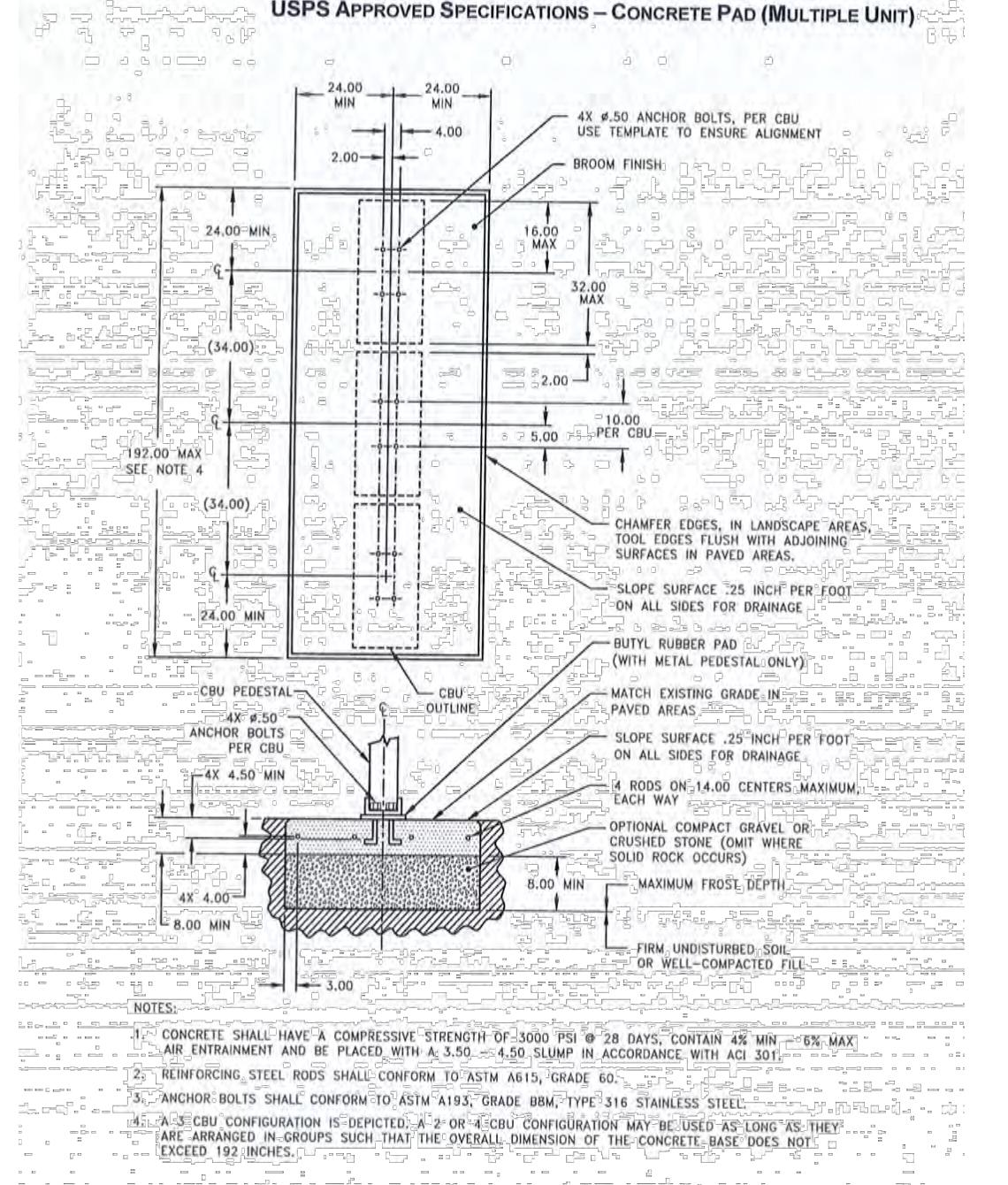
CLUSTER MAILBOX CONCRETE PAD DETAIL



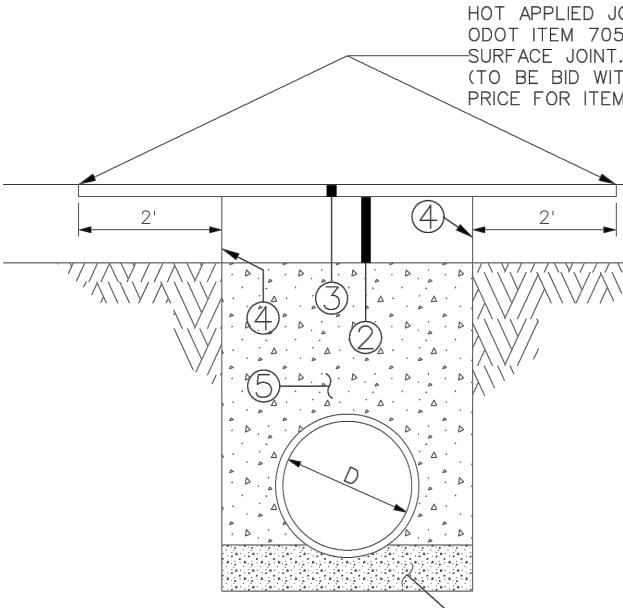
- ① Detectable Warning (Truncated Domes) are to be installed in the location shown. Dimensions of the domes are 24" from the back of the curb by the width of the ramp.
- ② Minimum Landing is to be 4' but 5' is preferred. The slope of the ramp is preferred to 12:1 or flatter related to the horizontal, but the slope shall be relative to the existing or proposed walk slope.
- ③ Curb ramps shall be design A or design B per ODOT Drawing 7-12-02, sheets 1 thru 3. Truncated domes are to meet the specifications of ODOT drawing 7-12-02 sheet 3.

CURB RAMP DETAIL

DOME ALIGNMENT ON RADIISED CURB



BUTLER COUNTY ENGINEER'S OFFICE
 STANDARD DETAIL FOR
 ROADWAY PAVEMENT RESTORATION

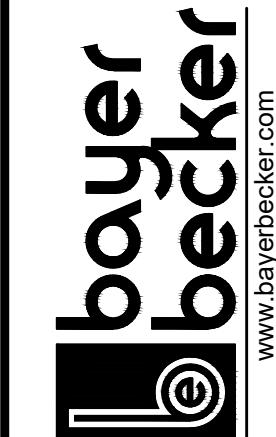


- ① EXISTING PAVEMENT
- ② 8" ITEM 301 BITUMINOUS AGGREGATE BASE IN TWO 4" LIFTS
- ③ 2" ITEM 448 ASPHALT CONCRETE SURFACE COURSE MIN. 2' EACH SIDE OF CUT
- ④ ITEM 407 TACK COAT APPLIED AT 0.10 GAL/SY
- ⑤ LOW STRENGTH MORTAR BACKFILL MATERIAL CLASS LSM 50
- ⑥ MIN. 6" GRANULAR PIPE BEDDING (OPTION - USE GRANULAR BEDDING EXTENDED 12" ABOVE PIPE FOR FULL WIDTH OF TRENCH)

S\Design\Standards\UTILITY CUT ROADWAY RESTORATION.dwg 3/1/2016 4:33:03 PM Meiss 3/1/2016

Item	Revision Description	Date	Drawn:	Chk:
1	Revised as per BWS	6-15-18	TAC	
2	Revised as per BWS	6-27-18	TAC	

FIELDSTONE FARMS
SECTION ONE, BLOCKS A&B
SINGLE FAMILY
 SECTION 15, TOWN 3, RANGE 3
 LIBERTY TOWNSHIP, BUTLER COUNTY, OHIO
 MISCELLANEOUS DETAILS



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 Mason, OH 45040 - 513.336.6600

CURB RAMP NOTES

DRAINAGE: Contractor is to ensure the base of each constructed curb ramp along the property line with existing curb has a grade slope of ramp slopes. Vertical change in level exceeding 6" between the 1) pavement and gutter, and 2) gutter and ramp, are not allowed. See Intersection Details.

SURFACE TEXTURE: Texture concrete surfaces by coarse brooming transverse to the ramp slopes to be rougher than the adjacent walk.

The edge of the curb shall be flush with the edge of the adjacent pavement and gutter and surface slopes that meet grade breaks shall also be flush.

DETECTABLE WARNING NOTES

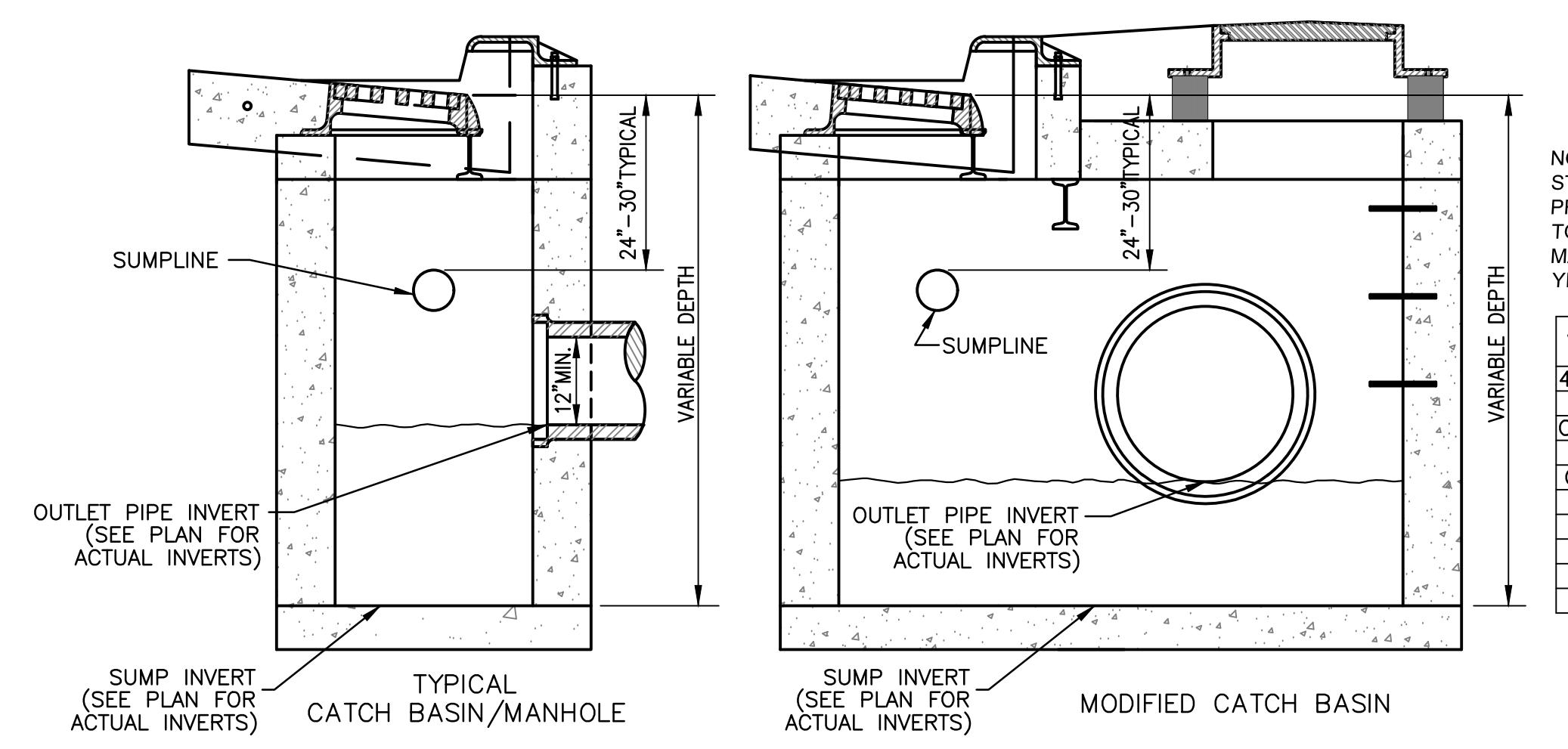
GENERAL: Detectable warnings are a distinctive surface pattern of truncated domes which are detectable by cane or underfoot to alert people with vision impairments of their approach to streets and hazardous drop-offs.

PLACEMENT: Detectable warnings are to be installed at any location where people may come in contact with them during traffic or walking such as the base of curb ramps or at blended curbs. A 24" strip of domes is to be installed for the full width of the ramp or walk. See plan locations of curb ramps.

The depth of concrete underneath detectable warning products shall be a minimum of 4".

ALIGNMENT: Truncated domes should be aligned with the primary direction of the ramp as shown on the DETECTABLE WARNING ALIGNMENT Detail. Normally the detectable warnings should be flush with the back of the curb, but in skewed conditions at least one corner of the 24" strip should be adjacent to the back of curb. For non-standard designs, detectable warning materials may have to be mitered and placed segmentally.

PRODUCTS & COLORS: Color of the detectable warnings should contrast with surrounding concrete walk and ramp. Black is not an acceptable color. Contractor to submit Armor-Tile Detectable/Tactile Warning Surface Cast In Place Tile or approved equal cut sheets for color selection approval to Owner. Install as per manufacturer's printed instructions.



STORM WATER QUALITY STRUCTURE DETAILS

(Not to Scale)

STRUCTURE TYPE	INNER STRUCTURE FLOOR AREA*
48" MANHOLE	12.57 S.F.
CB-3A	4.87 S.F.
CB-3A(MOD)	14.44 S.F.
CB-3	10.69 S.F.
CB-3(MOD)	31.68 S.F.
CB-2-2	4.00 S.F.
CB-2-3	9.00 S.F.
CB-2-4	16.00 S.F.
CB-2-5	25.00 S.F.
CB-2-6	36.00 S.F.

* AS PER ODOT &
 BUTLER COUNTY STANDARD DETAILS

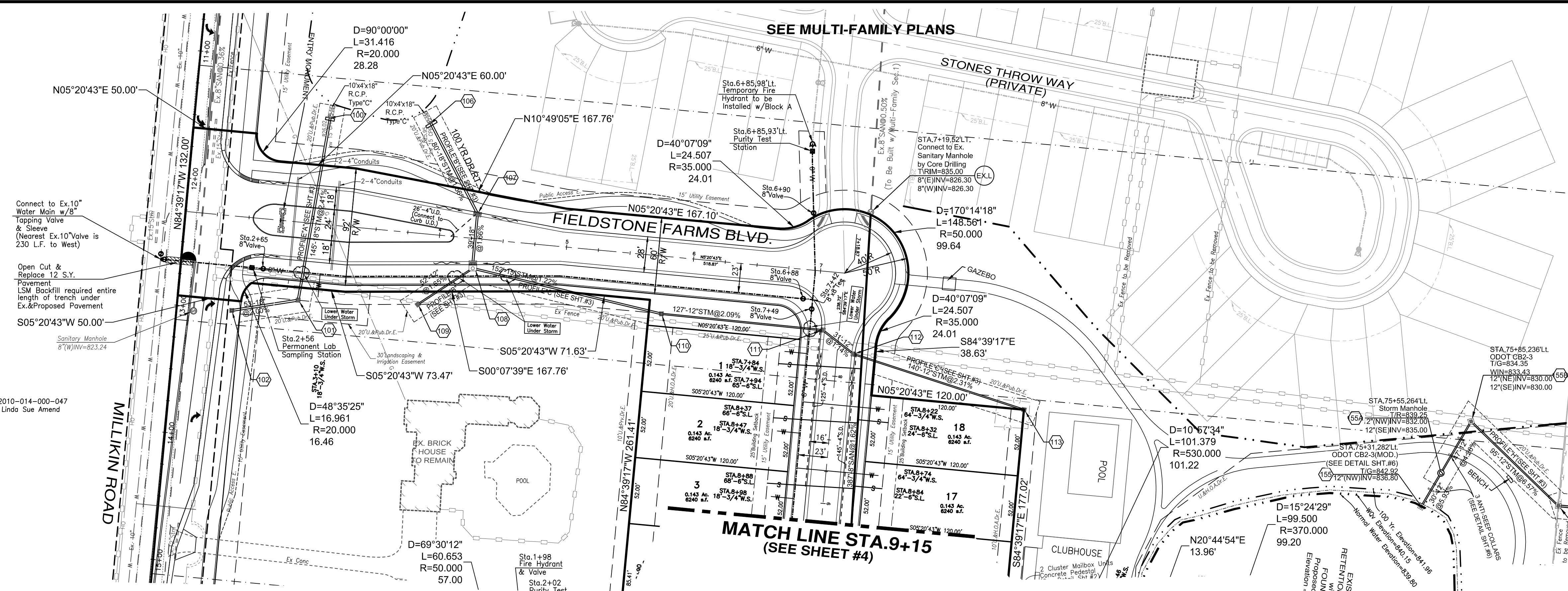
Drawing:	16-0294 S CD
Drawn by:	TAC
Checked By:	EMR
Issue Date:	5-21-18

- NOTES:
1. 48 hours notice to be given to affected residents before construction begins.
 2. All Catch Basin B/C Elevations located within the curb are set to the Back of Curb Elevations.
 3. Lower 3/4" Water Services as needed to avoid conflicts with Storm with Min. 4' Cover.
 4. Location of existing utilities to be determined in the field prior to work beginning.
 5. All lots Sump to Sump Drain unless otherwise noted in plan.
 6. Sump Lines to be installed as per Standard Service Detail. Wyes or Tees are to be placed ten feet past lot line, on the low side of specified lots, and marked with Wye poles.
 7. Contractors to accept all quantities as correct prior to beginning construction.

NOTE:
At Crossings, the water main shall have a minimum vertical distance of eighteen (18") inches from storm and sanitary sewers. Also, one full length of water main shall be located so the joints are as far from the storm and sanitary sewers as possible. Fittings, not joint deflection, must be used when water main is lowered at crossings.

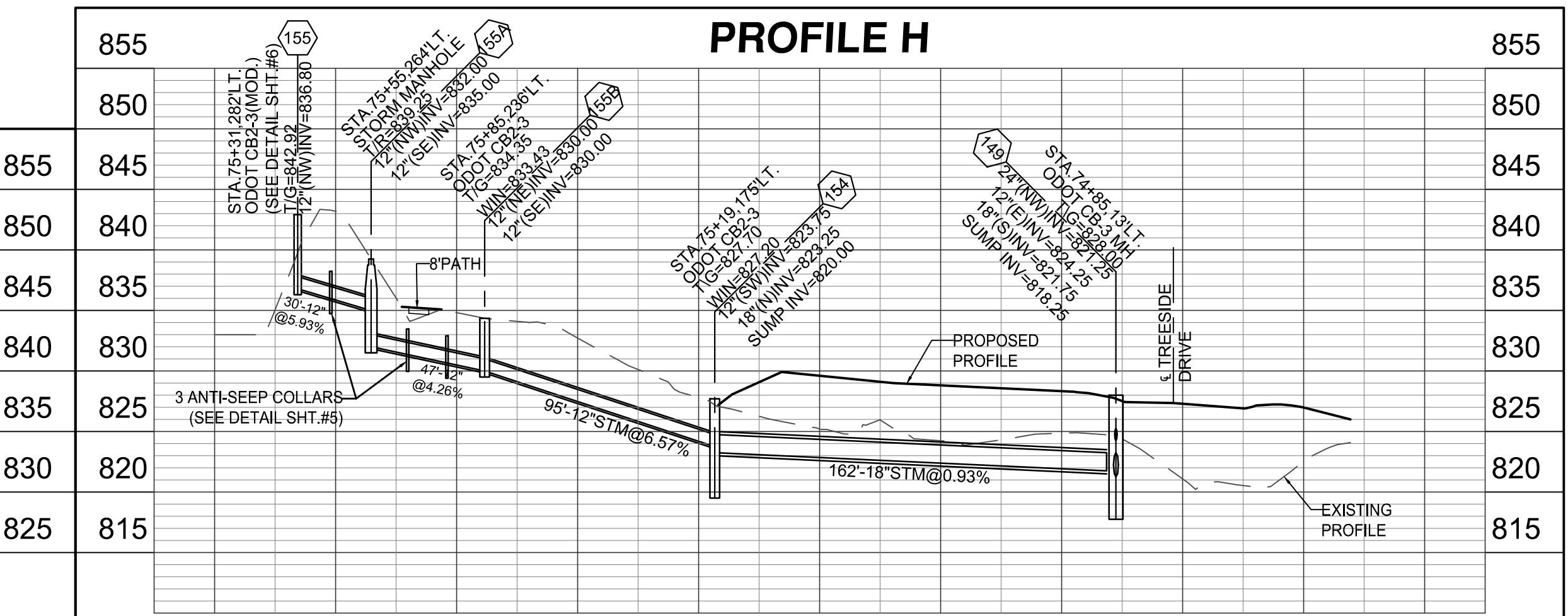
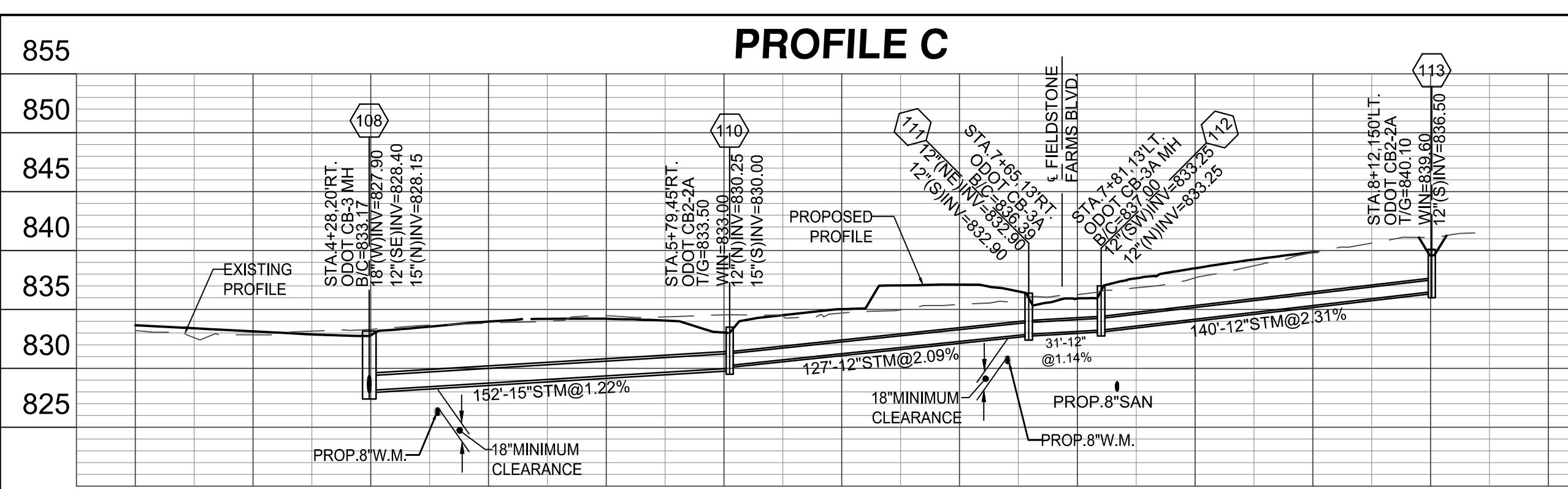
WATER MAIN RESTRAINT JOINT LOCATION CHART

Water Main Dia.	Horizontal 45°Bends	Vertical Up (Lower Water Under...)	Vertical Down (Lower Water Under...)	Dead Ends (Permanent & Temporary)	Tees (for Tee Branch)
6"	18' both sides	18' both sides	36' both sides	72' Back	54' 8' 10'
8"	18' both sides	36' both sides	36' both sides	90' Back	54' 72'
10"	36' both sides	36' both sides	54' both sides	117' Back	54' 72' 90'
12"	36' both sides	36' both sides	72' both sides	180' Back	36' 72' 90'
14"	54' both sides	54' both sides	90' both sides	196' Back	36' 72' 90'
16"	54' both sides	54' both sides	90' both sides	216' Back	36' 54' 90'

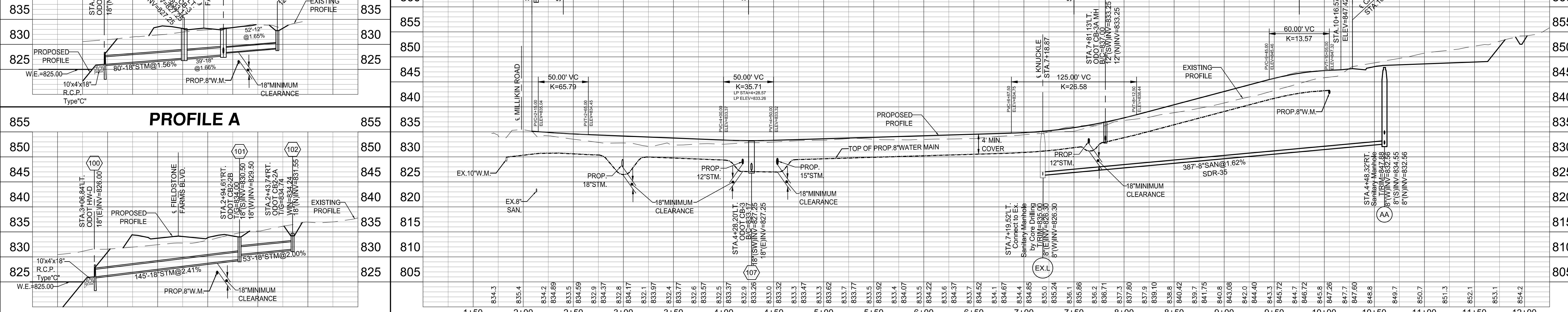
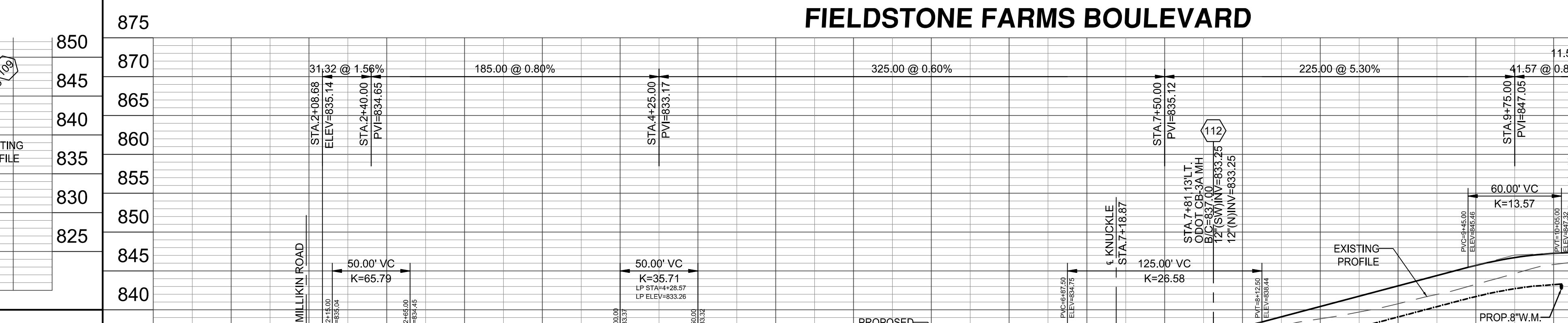
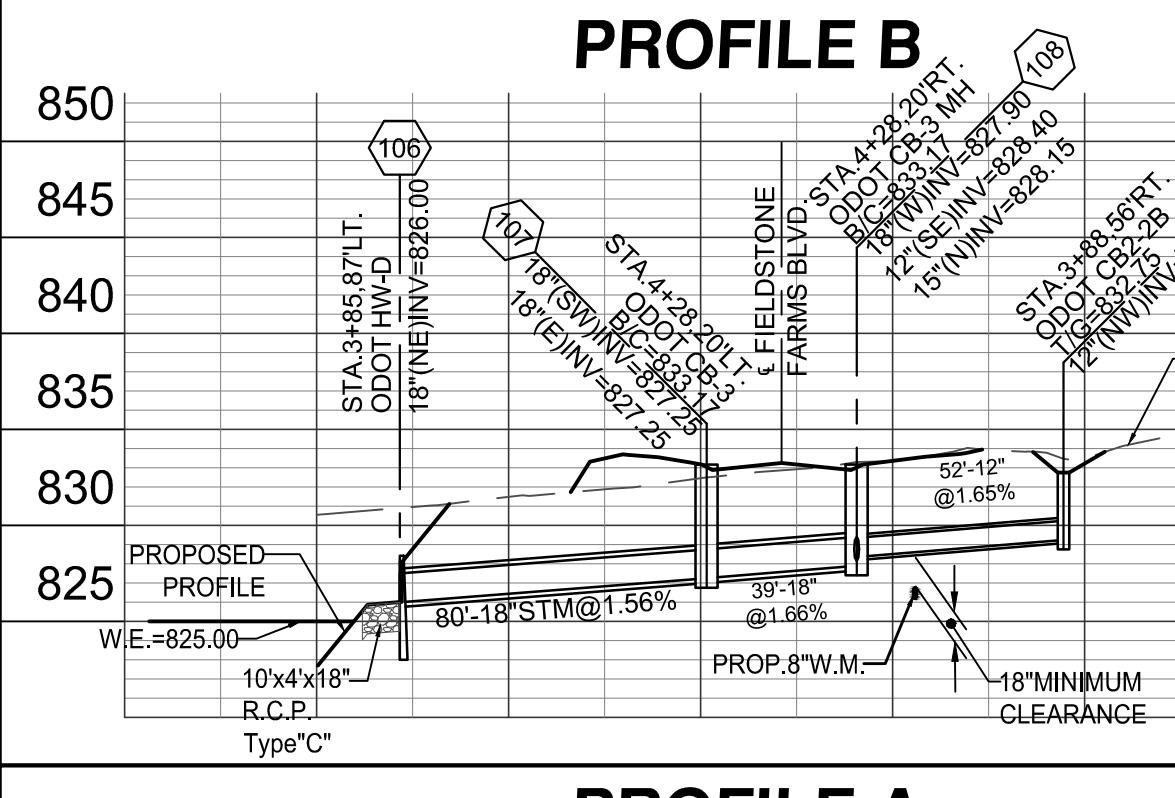


Basis of Bearing:
State Plane NAD83 (2011)
0 50 75
SCALE: 1" = 50'

0 50 75
SCALE: 1" = 50'



SCALES:
HOR: 1"=50'
VER: 1"=10'

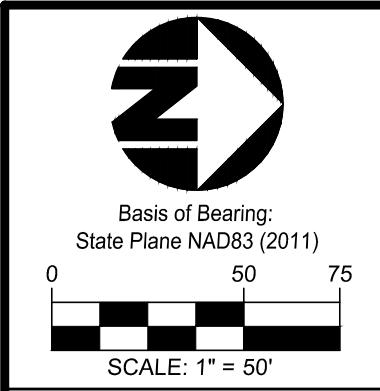
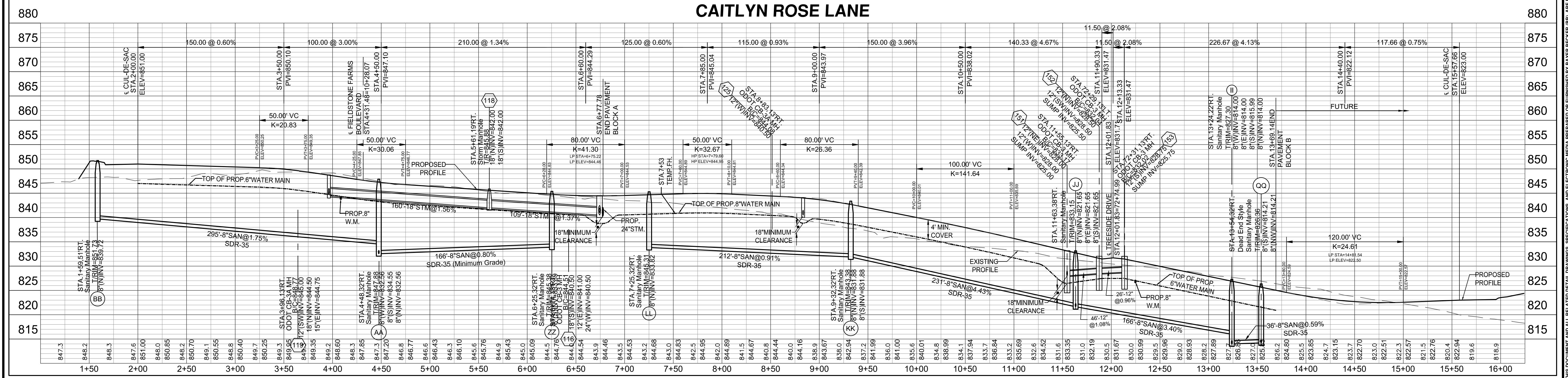
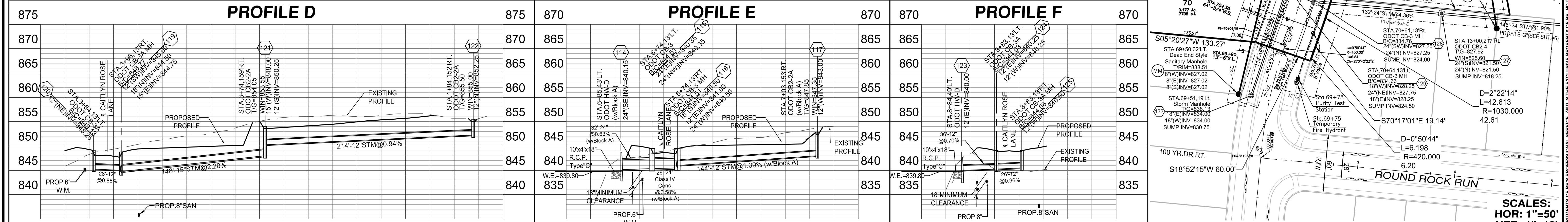
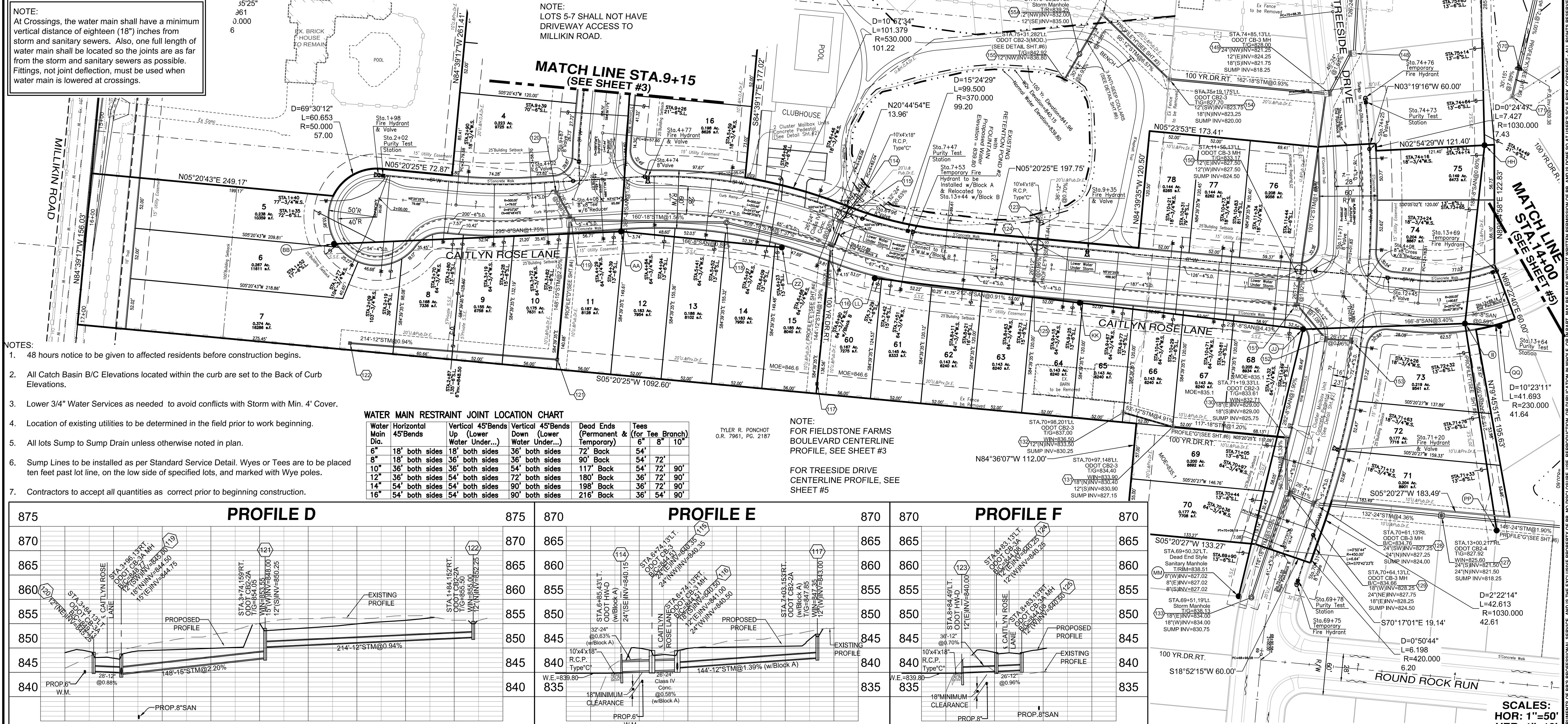


FIELDSTONE FARMS
SECTION ONE, BLOCKS A & B
SINGLE FAMILY
LIBERTY TOWNSHIP, BUTLER COUNTY, OHIO

SECTION 15, TOWN 3, RANGE 3
PLAN & PROFILE

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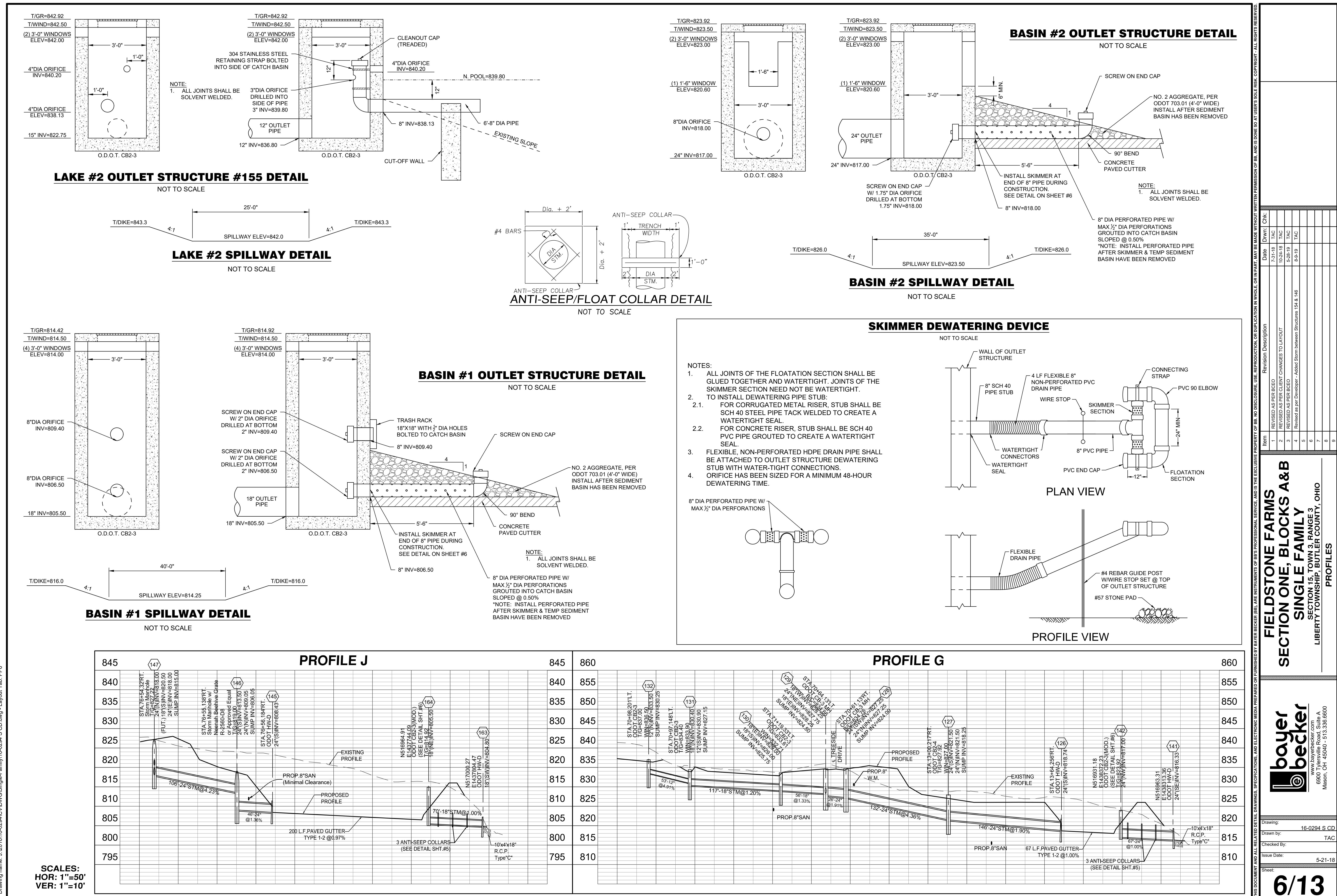
Drawing: 16-0294 S CD
Drawn by: TAC
Checked By:
Issue Date: 5-21-18
Sheet: 3/13

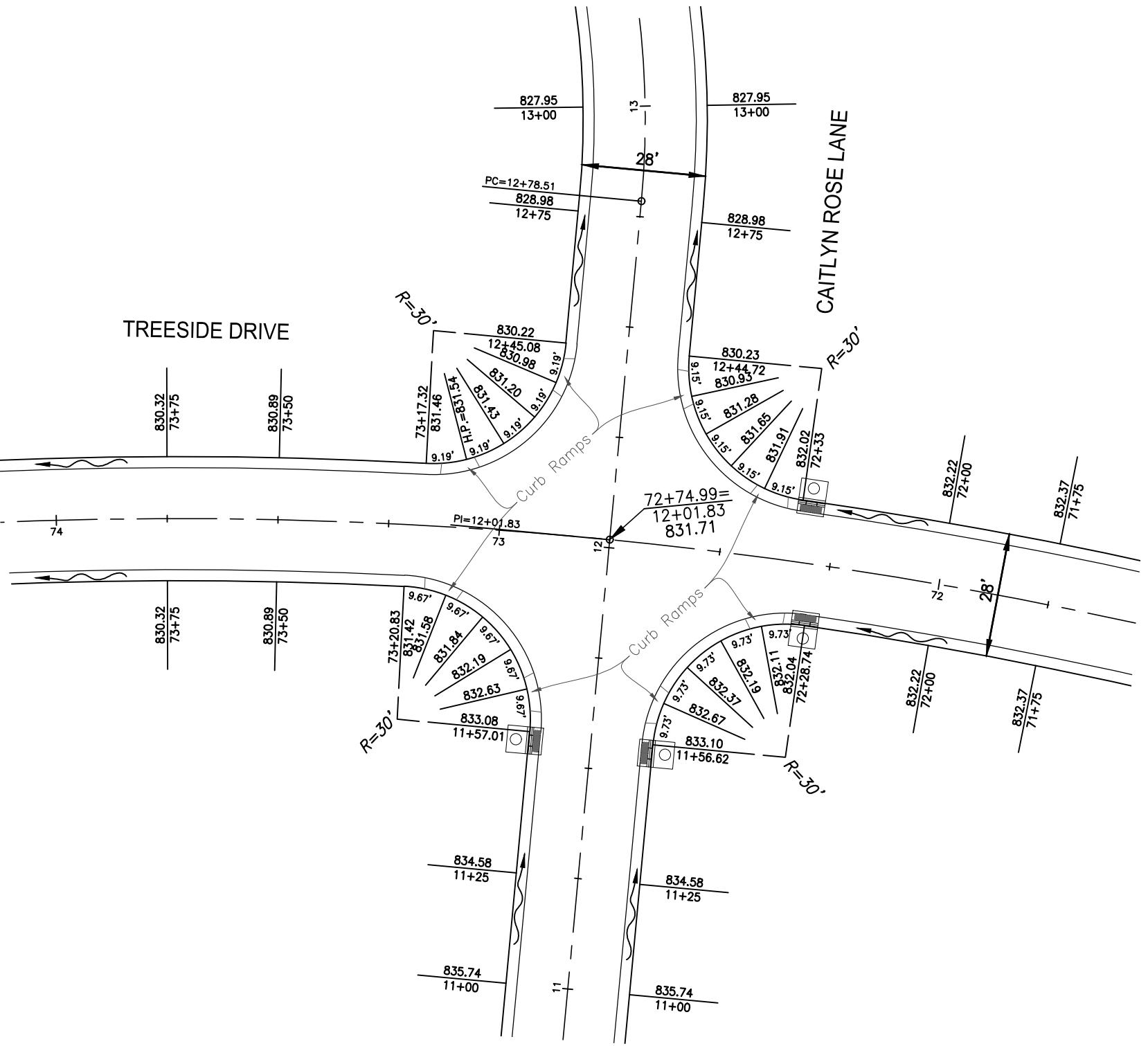
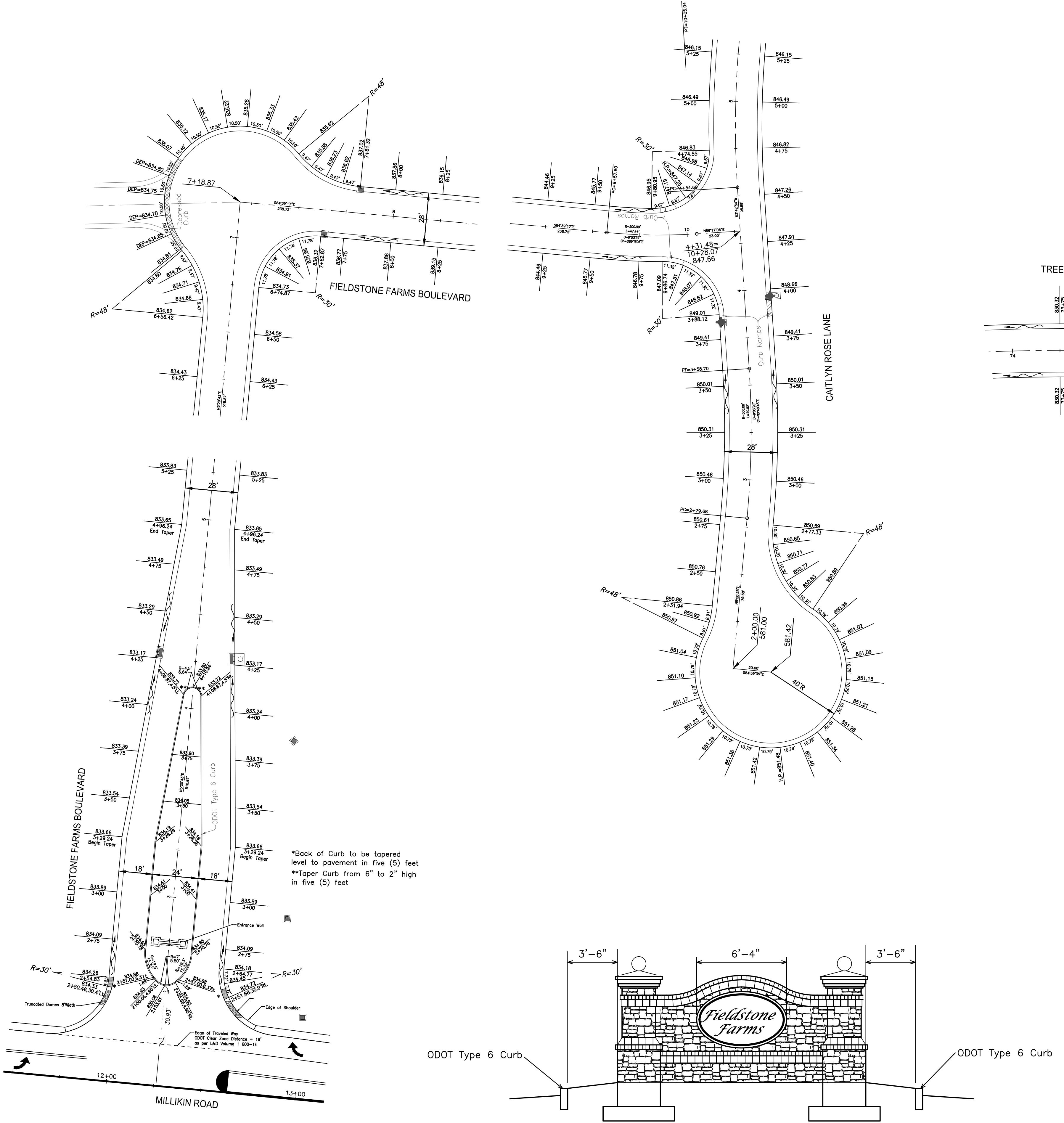


Basis of Bearing:
 State Plane NAD83 (2011)
 0 50 75
 SCALE: 1" = 50'

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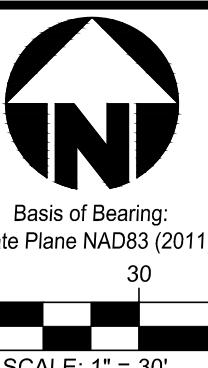


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Item	Description	Date	Drawn:	Check:
1	REVISED AS PER CLIENT CHANGES TO LAYOUT	10-24-18	TAC	
2	REVISED AS PER BEO	10-25-18	TAC	
3				
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9				

boyer becker
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 Mason, OH 45040 - 513.336.6600

Drawing: 16-0294_S_CD
 Drawn by: TAC
 Checked By:
 Issue Date: 5-21-18
 Sheet: 7/13



Basis of Bearing:
 State Plane NAD83 (2011)

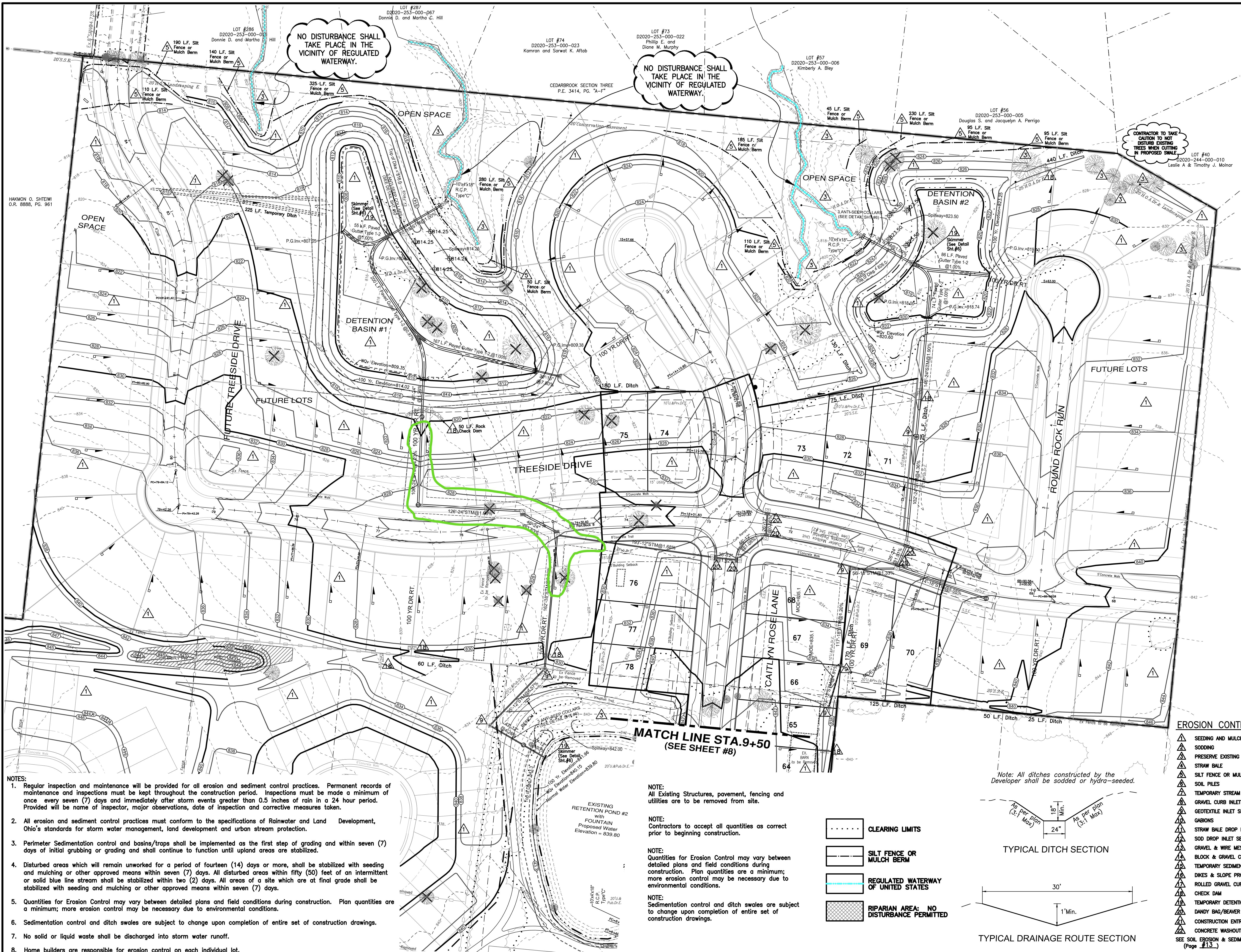
0 30 45

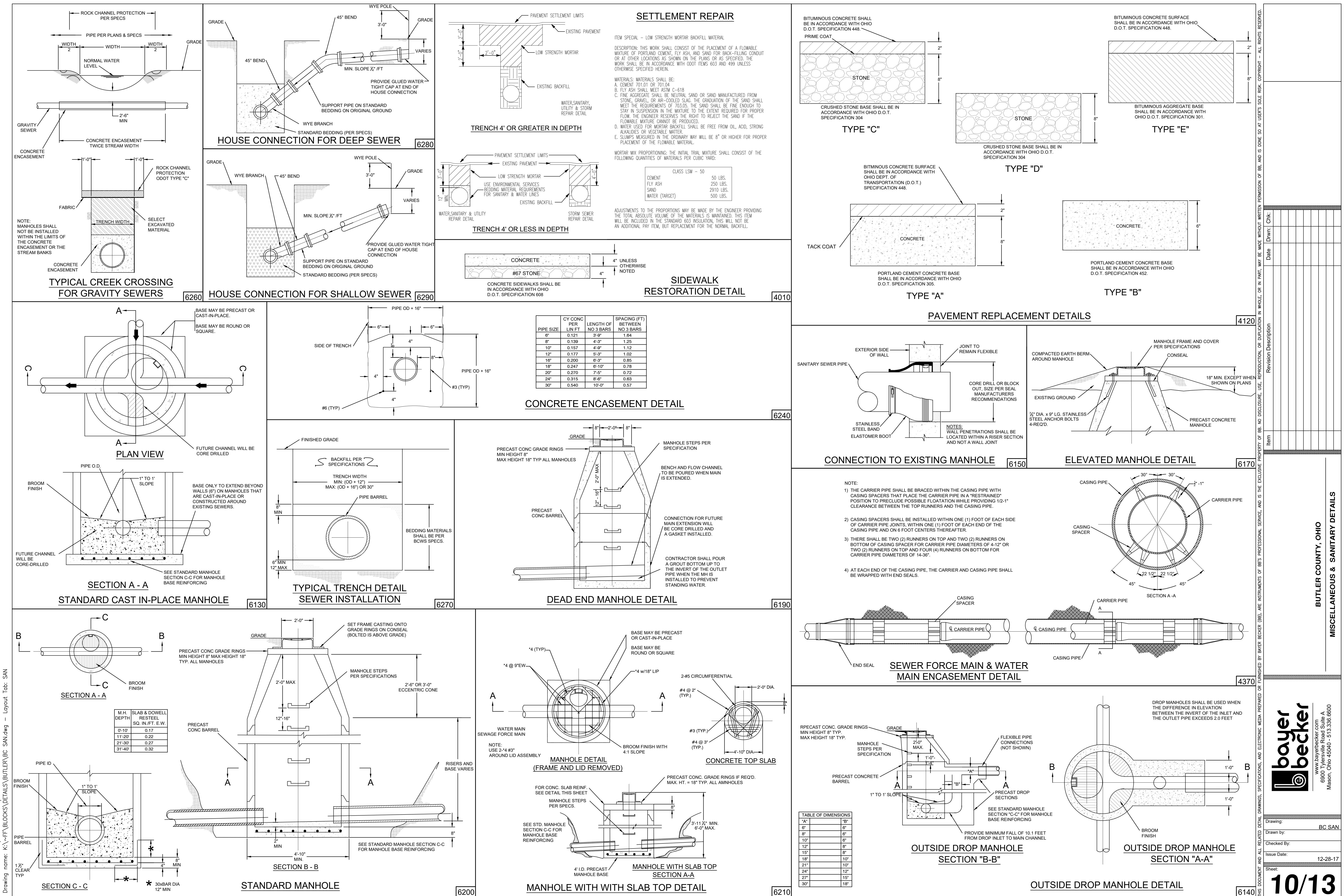
SCALE: 1" = 30'



Basis of Bearing:
State Plane NAD83 (2011)0 50 75
SCALE: 1" = 50'

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Item	Revision Description
1	REVISED AS PER BCEO
2	REVISED AS PER CLIENT CHANGES TO LAYOUT
3	REVISED AS PER BCEO
4	Revised as per Developer - Added Storm between Structures 15a & 146
5	
Date	Drawn: Chk:
	7-31-18 TAC
	10-24-18 TAC
	5-28-19 TAC
	8-9-19 TAC





BUTLER COUNTY, OHIO

STORM DETAILS

boayer
e
becker

www.boayerbecker.com
6900 Tyler Street, Suite A
Mason, OH 45040-336600

12/13

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USE WITH SHEET 2 OF		PIPE		DIMENSIONS		CLASS		REINF. STEEL					
M	N	DIA. OR L.DIA.	SHAPE ⑥	C	E	F	G	L	W	T	X	C.Y.	LBS.
12"	12	1"-9"	2"-6"	2"-3"	3"-6"	4"-9"	2"	2"-3"	3"-6"	4"-9"	131 1/2"	0.75	7
15"	15	1"-9"	3"-0"	2"-6"	4"-0"	4"-9"	2"	2"-3"	3"-6"	4"-9"	141 1/4"	0.68	8
18"	18	2"-3"	3"-0"	3"-5"	4"-6"	5"-3"	2"	2"-6"	3"-3"	4"-9"	23 1/4"	0.93	9
21"	21	2"-3"	3"-0"	4"-0"	5"-0"	6"-9"	2"	2"-6"	3"-3"	4"-9"	19"	1.35	8
24"	24	2"-9"	3"-6"	4"-6"	5"-6"	6"-9"	3"	2"-6"	3"-3"	4"-9"	31 1/4"	1.30	9
27"	27	3"-0"	3"-6"	4"-6"	5"-6"	7"-3"	3"	2"-9"	4"-6"	4"-3"	31 1/2"	1.57	10

USE WITH SHEET 3 OF

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USE WITH SHEET 4 OF

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GENERAL NOTES

EROSION AND SEDIMENT CONTROLS

Vegetative practices

Such practices may include: temporary seeding, permanent seeding, mulching, mowing, sod stabilization, vegetative bank strips, planting, and use of other methods to stabilize soil until appropriate vegetative practices can stabilize areas within seven (7) days if they are to remain dormant (undisturbed) for more than fourteen (14) days. Permanent or temporary soil stabilization shall be applied to disturbed areas within seven (7) days after final grade is reached on any portion of the site.

Structural Practices

Structural practices shall be used to control erosion and trap sediment from all sites remaining disturbed for more than fourteen (14) days.

Timing

Sediment control structures shall be functional throughout earth disturbing activity. Sediment ponds and perimeter sediment barriers shall be implemented as the first step of grading and within seven days from the start of grubbing. They shall continue to function until the upslope development area is restabilized.

Sediment Barriers

Sheet flow runoff from denuded areas shall be intercepted by sediment barriers. Sediment barriers, such as sediment fences or diversions, direction runoff to settling facilities, shall protect adjacent properties and water resources from sediment transported by sheet flow.

Erosion and sediment control practices used to satisfy the conditions of this plan shall meet the standards and specifications in the current edition of Water Management and Sediment Control in Urbanized Areas (Soil Conservation Service).

Waste Disposal

No solid or liquid waste, including building materials, shall be discharged or stored after runoff. Off-site vehicle tracking of sediments shall be minimized. The plan shall ensure and demonstrate compliance with applicable State of local waste disposal, sanitary sewer or septic system regulations.

Maintenance

All temporary and permanent control practices shall be maintained and repaired as needed to assure continued performance of their intended function.

Dormant Seedings

1. Seedlings shall not be planted from October 1 through November 20. During this period the seeds are likely to germinate but probably will not be able to survive the winter.

2. The following methods may be used for "Dormant Seeding":

From October 1 through November 20, prepare the seedbed, add the required amounts of lime and fertilizer, then mulch and anchor. After November 20 and before March 15, broadcast the selected seed mixture. Increase the seeding rates by 50% for this type of seeding.

From November 20 through March 15, when soil conditions permit, prepare the seedbed, lime and fertilize, apply the selected seed mixture, mulch and anchor. Increase the seeding rates by 50% for this type of seeding.

Apply seed uniformly with a cyclone seeder, drill, cultipacker seeder, or hydro-seeder (slurry may include seed and fertilizer) on a firm, moist seedbed.

Where feasible, except when a cultipacker type seeder is used, the seedbed should be firmed following seeding operations with a cultipacker, roller, or light drag. On sloping land, seeding operations should be on the contour where feasible.

REVEGETATION

Seed, sod or mulch bare soil as soon as possible

SEEDING AND MULCHING

Spread 4 to 6 inches of topsoil. Fertilize according to soil test (or apply 10 lb./1000 sq. ft. of 20-10-10 or 10-10-10 fertilizer.) Seed with an appropriate mix for the site (see table.) Rake lightly to cover seed with 1/4" of soil. Roll lightly. Mulch with straw (70-90 lb., or one bale per 1000 sq. ft.) Anchor mulch by punching 2 inches into the soil with a dual weighted disk or by using nesting or other measures on steep slopes, or windy areas. Water gently every day or two to keep soil moist. Less watering is needed once grass is 2 inches tall.

SODDING

Spread 4 to 6 inches of topsoil. Fertilize according to soil test (or apply 10lb./1000 sq. ft. of 20-10-10 or 10-10-10 fertilizer.) Lightly water the sod. Lay sod. Tamp or roll lightly. On slopes, lay sod starting at the bottom and work toward the top. Place sod on a flat surface. Do not lay sod on wet soil. Wet soil 6 inches deep (or until water stands 1 inch deep in a straight-sided container.) Then water lightly every day or two for 2 weeks. If construction is completed after October 31, seeding or sodding may be delayed. Applying mulch or temporary seed (such as rye or winter wheat) is recommended if weather permits. Straw bale or silt fences must be maintained until final seeding or sodding is completed in spring March 15– May 31.

STRAW BALES DETAILS

1. Excavate the trench. 2. Place and stake the straw bales.

3. Wedge loose straw between the bales. 4. Backfill and compact the excavated soil.

CONSTRUCTION OF A STRAW BALE BARRIER

Source: Adapted from Installation of Straw and Filter Barriers for Sediment Control, Sherwood and Wyant.

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PROPER PLACEMENT OF A STRAW BALE BARRIER IN DRAINAGE WAY

Source: Installation of Straw and Filter Barriers for Sediment Control, Sherwood and Wyant.

1. Points A should be higher than point B

2. PROPER PLACEMENT OF A STRAW BALE BARRIER IN DRAINAGE WAY

Source: Installation of Straw and Filter Barriers for Sediment Control, Sherwood and Wyant.

3. Points A should be higher than point B

4. PROPER PLACEMENT OF A STRAW BALE BARRIER IN DRAINAGE WAY

Source: Installation of Straw and Filter Barriers for Sediment Control, Sherwood and Wyant.

5. Points A should be higher than point B

6. PROPER PLACEMENT OF A STRAW BALE BARRIER IN DRAINAGE WAY

Source: Installation of Straw and Filter Barriers for Sediment Control, Sherwood and Wyant.

7. Points A should be higher than point B

8. PROPER PLACEMENT OF A STRAW BALE BARRIER IN DRAINAGE WAY

Source: Installation of Straw and Filter Barriers for Sediment Control, Sherwood and Wyant.

9. Points A should be higher than point B

10. PROPER PLACEMENT OF A STRAW BALE BARRIER IN DRAINAGE WAY

Source: Installation of Straw and Filter Barriers for Sediment Control, Sherwood and Wyant.

11. Points A should be higher than point B

12. PROPER PLACEMENT OF A STRAW BALE BARRIER IN DRAINAGE WAY

Source: Installation of Straw and Filter Barriers for Sediment Control, Sherwood and Wyant.

13. Points A should be higher than point B

14. PROPER PLACEMENT OF A STRAW BALE BARRIER IN DRAINAGE WAY

Source: Installation of Straw and Filter Barriers for Sediment Control, Sherwood and Wyant.

15. Points A should be higher than point B

16. PROPER PLACEMENT OF A STRAW BALE BARRIER IN DRAINAGE WAY

Source: Installation of Straw and Filter Barriers for Sediment Control, Sherwood and Wyant.

17. Points A should be higher than point B

18. PROPER PLACEMENT OF A STRAW BALE BARRIER IN DRAINAGE WAY

Source: Installation of Straw and Filter Barriers for Sediment Control, Sherwood and Wyant.

19. Points A should be higher than point B

20. PROPER PLACEMENT OF A STRAW BALE BARRIER IN DRAINAGE WAY

Source: Installation of Straw and Filter Barriers for Sediment Control, Sherwood and Wyant.

21. Points A should be higher than point B

22. PROPER PLACEMENT OF A STRAW BALE BARRIER IN DRAINAGE WAY

Source: Installation of Straw and Filter Barriers for Sediment Control, Sherwood and Wyant.

23. Points A should be higher than point B

24. PROPER PLACEMENT OF A STRAW BALE BARRIER IN DRAINAGE WAY

Source: Installation of Straw and Filter Barriers for Sediment Control, Sherwood and Wyant.

25. Points A should be higher than point B

26. PROPER PLACEMENT OF A STRAW BALE BARRIER IN DRAINAGE WAY

Source: Installation of Straw and Filter Barriers for Sediment Control, Sherwood and Wyant.

27. Points A should be higher than point B

28. PROPER PLACEMENT OF A STRAW BALE BARRIER IN DRAINAGE WAY

Source: Installation of Straw and Filter Barriers for Sediment Control, Sherwood and Wyant.

29. Points A should be higher than point B

30. PROPER PLACEMENT OF A STRAW BALE BARRIER IN DRAINAGE WAY

Source: Installation of Straw and Filter Barriers for Sediment Control, Sherwood and Wyant.

31. Points A should be higher than point B

32. PROPER PLACEMENT OF A STRAW BALE BARRIER IN DRAINAGE WAY

Source: Installation of Straw and Filter Barriers for Sediment Control, Sherwood and Wyant.

33. Points A should be higher than point B

34. PROPER PLACEMENT OF A STRAW BALE BARRIER IN DRAINAGE WAY

Source: Installation of Straw and Filter Barriers for Sediment Control, Sherwood and Wyant.

35. Points A should be higher than point B

36. PROPER PLACEMENT OF A STRAW BALE BARRIER IN DRAINAGE WAY

Source: Installation of Straw and Filter Barriers for Sediment Control, Sherwood and Wyant.

37. Points A should be higher than point B

38. PROPER PLACEMENT OF A STRAW BALE BARRIER IN DRAINAGE WAY

Source: Installation of Straw and Filter Barriers for Sediment Control, Sherwood and Wyant.

39. Points A should be higher than point B

40. PROPER PLACEMENT OF A STRAW BALE BARRIER IN DRAINAGE WAY

Source: Installation of Straw and Filter Barriers for Sediment Control, Sherwood and Wyant.

41. Points A should be higher than point B

42. PROPER PLACEMENT OF A STRAW BALE BARRIER IN DRAINAGE WAY

Source: Installation of Straw and Filter Barriers for Sediment Control, Sherwood and Wyant.

43. Points A should be higher than point B

44. PROPER PLACEMENT OF A STRAW BALE BARRIER IN DRAINAGE WAY

Source: Installation of Straw and Filter Barriers for Sediment Control, Sherwood and Wyant.

45. Points A should be higher than point B

46. PROPER PLACEMENT OF A STRAW BALE BARRIER IN DRAINAGE WAY

Source: Installation of Straw and Filter Barriers for Sediment Control, Sherwood and Wyant.

47. Points A should be higher than point B

48. PROPER PLACEMENT OF A STRAW BALE BARRIER IN DRAINAGE WAY

Source: Installation of Straw and Filter Barriers for Sediment Control, Sherwood and Wyant.

49. Points A should be higher than point B

50. PROPER PLACEMENT OF A STRAW BALE BARRIER IN DRAINAGE WAY

Source: Installation of Straw and Filter Barriers for Sediment Control, Sherwood and Wyant.

51. Points A should be higher than point B

52. PROPER PLACEMENT OF A STRAW BALE BARRIER IN DRAINAGE WAY

Source: Installation of Straw and Filter Barriers for Sediment Control, Sherwood and Wyant.

53. Points A should be higher than point B

54. PROPER PLACEMENT OF A STRAW BALE BARRIER IN DRAINAGE WAY

Source: Installation of Straw and Filter Barriers for Sediment Control, Sherwood and Wyant.

55. Points A should be higher than point B

56. PROPER PLACEMENT OF A STRAW BALE BARRIER IN DRAINAGE WAY

Source: Installation of Straw and Filter Barriers for Sediment Control, Sherwood and Wyant.

57. Points A should be higher than point B

58. PROPER PLACEMENT OF A STRAW BALE BARRIER IN DRAINAGE WAY

Source: Installation of Straw and Filter Barriers for Sediment Control, Sherwood and Wyant.

59. Points A should be higher than point B

60. PROPER PLACEMENT OF A STRAW BALE BARRIER IN DRAINAGE WAY

Source: Installation of Straw and Filter Barriers for Sediment Control, Sherwood and Wyant.

61. Points A should be higher than point B

62. PROPER PLACEMENT OF A STRAW BALE BARRIER IN DRAINAGE WAY

Source: Installation of Straw and Filter Barriers for Sediment Control, Sherwood and Wyant.

63. Points A should be higher than point B

64. PROPER PLACEMENT OF A STRAW BALE BARRIER IN DRAINAGE WAY

Source: Installation of Straw and Filter Barriers for Sediment Control, Sherwood and Wyant.

65. Points A should be higher than point B

66. PROPER PLACEMENT OF A STRAW BALE BARRIER IN DRAINAGE WAY

Source: Installation of Straw and Filter Barriers for Sediment Control, Sherwood and Wyant.

67. Points A should be higher than point B

68. PROPER PLACEMENT OF A STRAW BALE BARRIER IN DRAINAGE WAY

Source: Installation of Straw and Filter Barriers for Sediment Control, Sherwood and Wyant.

69. Points A should be higher than point B

70. PROPER PLACEMENT OF A STRAW BALE BARRIER IN DRAINAGE WAY

Source: Installation of Straw and Filter Barriers for Sediment Control, Sherwood and Wyant.