STORM WATER DRAIN #315

to serve

MEADOWLAKE BEACH ADDITION

CITY OF WICHITA, KANSAS

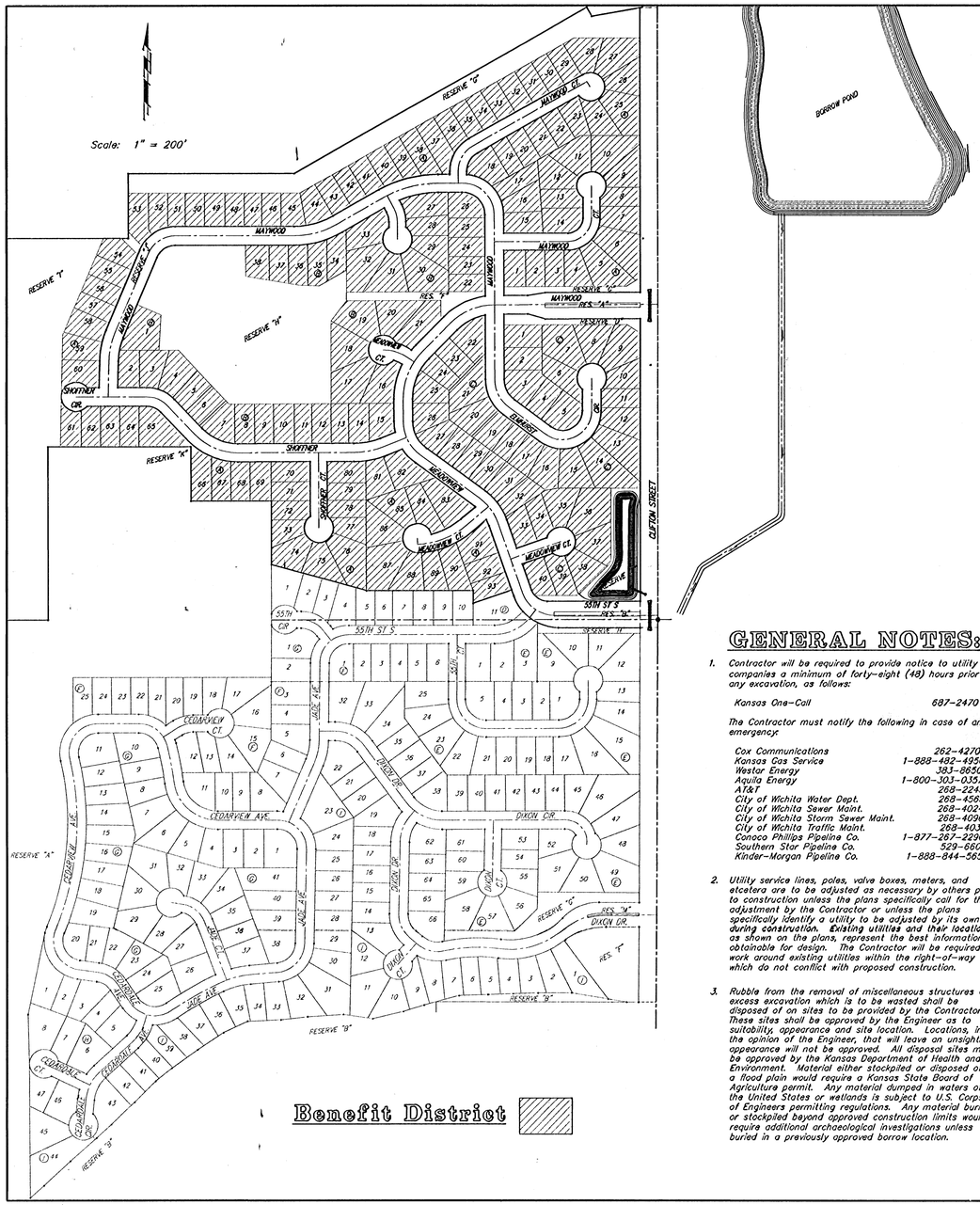
James L. Armour, P.E. City Engineer

Project Number

468-84302

O.C.A. Number

751444



Benefit District

GENERAL NOTES:

1. Contractor will be required to provide notice to utility companies a minimum of forty-eight (48) hours prior to any excavation, as follows:

Kansas One-Call	687-2470

The Contractor must notify the following in case of an emergency:

Cox Communications	262-4270
Kansas Gas Service	1-888-482-4950
Westar Energy	383-8650
Aquila Energy	1-800-303-0357
AT&T	268-2245
City of Wichita Water Dept.	268-4563
City of Wichita Sewer Maint.	268-4024
City of Wichita Storm Sewer Maint.	268-4090
City of Wichita Traffic Maint.	268-4034
Conoco Phillips Pipeline Co.	1-877-267-2290
Southern Star Pipeline Co.	529-5600
Kinder-Morgan Pipeline Co.	1-888-844-5658

2. Utility service lines, poles, valve boxes, meters, and etcetera are to be adjusted as necessary by others prior to construction unless the plans specifically call for their adjustment by the Contractor or unless the plans specifically identify a utility to be adjusted by its owner during construction. Existing utilities and their location, as shown on the plans, represent the best information obtainable for design. The Contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.

3. Rubble from the removal of miscellaneous structures and excess excavation which is to be wasted shall be disposed of on sites to be provided by the Contractor. These sites shall be approved by the Engineer as to suitability, appearance and site location. Locations, in the opinion of the Engineer, that will leave an unsightly appearance will not be approved. All disposal sites must be approved by the Kansas Department of Health and Environment. Material either stockpiled or disposed of in a flood plain would require a Kansas State Board of Agriculture permit. Any material dumped in waters of the United States or wetlands is subject to U.S. Corps. of Engineers permitting regulations. Any material buried or stockpiled beyond approved construction limits would require additional archaeological investigations unless buried in a previously approved borrow location.

4. Trees and shrubs in public right-of-way which are in direct conflict with proposed new construction shall be removed by the Contractor with the Engineer's approval. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage.

5. The Contractor shall give all property owners and/or tenants of developed property abutting the construction of this project a minimum of ten (10) days notice prior to start of construction.

6. The Contractor shall be responsible for preserving property irons. The Contractor will be required to re-establish any property irons which are damaged or destroyed by his construction operations. Such irons shall be re-established by a licensed land surveyor in accordance with state laws

7. All areas disturbed during construction shall be seeded as indicated on Pond Plan.

8. At conclusion of construction, an as-built survey will be completed by the engineer. The contractor will be required to finish and smooth grade all locations immediately as necessary that are not within ±0.2' of street r/w plan grade or within ±0.2' of plan grade outside of street r/w. The contractor shall include all costs associated with the regrading and/or remobilization in the bid item "Mass Grading."

9. See Borrow Excavation Plan for availability and location of contractor borrow.

10. The developer for this project is Jay Russell, (316) 722-2417

11. Contractor shall not begin construction until an approved Notice of Intent has been received from the Kansas Department of Health and Environment.

Sheet Index

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Mass Grading Plan	2-4
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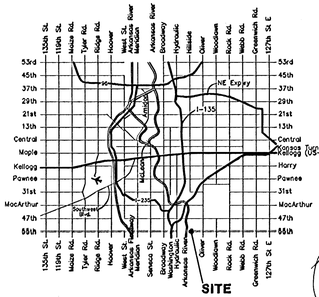
Benchmark

BM #1 – City of Wichita Benchmark Disc, SE Corner of Clifton and 55th Street South, Southwest corner of RCBC, on top of hubguard at the West end.
ELEV. = 1263.29 NGVD29

BM #2 – ⊓ Cut on wall footing located 29' North of the South end of wall, at the Southeast corner of Lot 7 Block A, Meadowlake Beach Addition, Sedgwick County, Kansas.
ELEV. = 1266.82 NGVD29

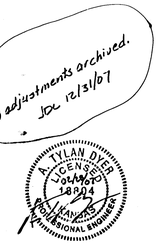
BM #3 – ⊓ Cut Top of Curb, West side South end of Concrete street North west of Northeast corner of Meadowlake Beach Addition, Sedgwick County, Kansas.
ELEV. = 1262.86 NGVD29

BM #4 – ⊓ Cut Top of Curb, East return on East side of Concrete street North of the Northwest Corner of Meadowlake Beach Addition, Sedgwick County, Kansas.
ELEV. = 1262.95 NGVD29



Vicinity Map

99 adjustments archived.
JCL 12/31/07



As Built - KK 10/8/07

Final Plans 02/28/07 ATD

Baughman

Baughman Company, P.A. 315 Ellis St. Wichita, KS 67211 P 316-262-7271 F 316-262-014
ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE

BM #1 – City of Wichita Benchmark Disc, SE Corner of Clifton and 55th Street South, Southwest corner of RCBC, on top of hubguard at the West end. ELEV. = 1263.29 NGVD29

BM #2 – "□" Cut on wall footing located 29' North of the South end of wall, at the Southeast corner of Lot 7 Block A, Meadowlake Beach Addition, Sedgwick County, Kansas. ELEV. = 1266.82 NGVD29

BM #3 – "□" Cut Top of Curb, West side South end of Concrete street North west of Northeast corner of Meadowlake Beach Addition, Sedgwick County, Kansas. ELEV. = 1262.86 NGVD29

BM #4 – "□" Cut Top of Curb, East return on East side of Concrete street North of the Northwest Corner of Meadowlake Beach Addition, Sedgwick County, Kansas. ELEV. = 1262.95 NGVD29

EROSION CONTROL PLAN LEGEND

(Installation Details Found in the SWP3 Plan)

- HEAVY STONE RIP-RAP
- DROP INLET PROTECTION
- CURB INLET PROTECTION
- STRAW BALE BARRIERS
- SILT FENCING
- EARTH DIKES
- TEMPORARY DITCH

NO SCALE

Scale: 1" = 60'

Area to be graded

1265 Existing Grade

1265 Proposed Grade

FEMA BFE Line

Construct ditch to ensure positive drainage of sump areas. See detail, sheet 3.

Construct hay bale ditch check per detail, sheet 18.

Construct hay bale ditch check per detail, sheet 18.

Existing Water Line to be abandoned prior to construction contractor shall verify.

Existing structure to be removed by others prior to construction.

Install 969 L.F. silt fence per detail, sheet 19.

Install 275 L.F. silt fence per detail, sheet 19.

Construct berm per detail, sheet 4. Cost of berm construction to be incidental to lump sum bid item "Mass Grading".

Install 326 L.F. silt fence per detail, sheet 19.

Construct hay bale ditch check per detail, sheet 18.

Existing structure to be removed by others prior to construction.

Construct hay bale ditch check per detail, sheet 18.

Construct ditch to ensure positive drainage of sump areas. See detail, sheet 3.

FEMA BFE = 1263.0
RESERVE "H"
MIN. ELEV. = 1263.5
MIN. ELEV. = 1263.0

Construct ditch to ensure positive drainage of sump areas. See detail, sheet 3.

Maintain two construction entrance onto existing paved roadway per detail, sheet 19. One each at the Maywood entrance and the 55th Street entrance.

Construct 1,780 L.F. cut-off trench per detail, sheet 6.

Construct hay bale ditch check per detail, sheet 18.

Construct ditch to ensure positive drainage of sump areas. See detail, sheet 3.

MEADOWLAKE BEACH ADDITION
MASS GRADING PLAN
WICHITA, KANSAS

Baughman

Baughman Company, P.A. 315 Ellis St. Wichita, KS 67211 P 316.263.7275 F 316.262.0149
ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE

PROJECT NUMBER 468-6302
DESIGN TMS
DRAWN TMS
APPROVED
DATE 03-07
REVISIONS
SCALE Noted
SHEET **2** OF **22**

MeadowlakeBeach/Mass2 06-10-E676

BM #1 – City of Wichita
Benchmark Disc, SE Corner of Clifton and 55th Street South, Southwest corner of RCBC, on top of hubguard at the West end.
ELEV. = 1263.29 NGVD29

BM #2 – "□" Cut on wall footing located 29' North of the South end of wall, at the Southeast corner of Lot 7 Block A, Meadowlake Beach Addition, Sedgwick County, Kansas.
ELEV. = 1266.82 NGVD29

BM #3 – "□" Cut Top of Curb, West side South end of Concrete street North west of Northeast corner of Meadowlake Beach Addition, Sedgwick County, Kansas.
ELEV. = 1262.86 NGVD29

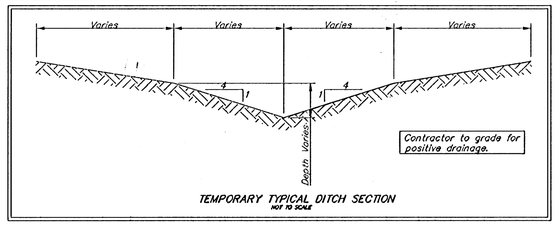
BM #4 – "□" Cut Top of Curb, East return on East side of Concrete street North of the Northwest Corner of Meadowlake Beach Addition, Sedgwick County, Kansas.
ELEV. = 1262.95 NGVD29

EROSION CONTROL PLAN LEGEND

(Installation Details Found in the SWP2 Plan)

- HEAVY STONE RIP-RAP
- DROP INLET PROTECTION
- CURB INLET PROTECTION
- STRAW BALE BARRIERS
- SILT FENCING
- EARTH DIKES
- TEMPORARY DITCH

NO SCALE



TEMPORARY TYPICAL DITCH SECTION
NOT TO SCALE

EARTH WORK TOTALS

	EXCAVATION	FILL
LOT GRADING	20,199	162,918
BERM RES. G	138	19,252
POND RES. E	7,024	208
TOTAL	27,361	182,378

Earthwork quantities are for reference only. All cost associated with mass grading shall be incidental to lump sum bid item "Mass Grading".

1. Contractor to strip top 3" of soil within Res. "E" and street R/W before mass grading and stockpile. Top soil stockpile to be redistributed over Reserve "E" above water surface.
2. Compaction of 95% shall be obtained in all street R/W's, 90% in all other areas.
3. Any damage done to existing utilities by Contractor or subcontractor shall be repaired at no additional cost to the project.
4. Only trees within the street R/W or Res. "E" may be removed if necessary for grading. Trees shall be trimmed by chainsaw if necessary to allow for construction equipment to place and compact fill around them. All other trees shall be protected from damage.
5. All areas disturbed by construction (except within street R/W) shall be seeded as indicated on Pond Plan.
6. Borrow excavation will be available east of Clifton Ave. as indicated on Borrow Exacavtion Plan.

1.1 x Fill – 0.9 x Excavation
1.1 x 182,378 – 0.9 x 27,361
Offsite Borrow = 175,991

7. 10% Shrink and 10% Swell correction factors have been used as shown to estimate the amount of offsite borrow. Contractor shall be responsible to satisfy himself with these numbers during the bidding process and bid this project accordingly. Mass grading shall be all inclusive to fill, compact and grade site as shown on plan. No additional change orders or request for payment will be accepted.

8. Lots marked with ⊕ symbol need extra deep foundations and require compaction testing (95% std. density) for every 12" lift of fill. Also, additional sites marked with ◉ symbol will require the same testing. Compaction testing to be incidental to "Site Clearing & Restoration".

9. All areas north of FEMA BFE line (except existing pond) shall be filled to a minimum elevation of 1263.5. All areas south of FEMA BFE line (except proposed pond) shall be filled to a minimum elevation of 1263.0. This shall be taken into account at locations where the bottom of a street cross section would have fallen below the minimum elevation.

Scale: 1" = 60'

1265 Existing Grade
1265 Proposed Grade
Area to be graded

Construct ditch to ensure positive drainage of sump areas. See detail, sheet 3.

Construct hay bale barrier per detail, sheet 18.

Install 634 L.F. silt fence per detail, sheet 19.

Taper flowline of ditch from 17' to 30' east of property line. Install 13.0 S.Y. light stone rip-rap to protect manhole from erosion.

Existing structures, propane tanks, etc. to be removed by others prior to construction.

Install 35.0 L.F. 36" CMP w/ end sections. Construct 16' wide AS-1 gravel drive from Clifton to the existing gravel road. Access shall be maintained at all times for homowners throughout construction via this entrance. Incidental to "Site Clearing & Restoration"

Overhead electric lines, power poles, underground SBC lines & SBC pedestals along gravel road will NOT be removed prior to construction. Contractor shall grade around these structures, tapering from proposed to existing at 2:1 slope around structures.

Construct ditch to ensure positive drainage of sump areas. See detail, sheet 3.

MEADOWLAKE CT.
CLIFTON STREET
RESERVE "E"
RESERVE "F"
DRAINAGE EASEMENT
Ex. 16" Water
Ex. 18" Water

Baughman

MEADOWLAKE BEACH ADDITION
MASS GRADING PLAN
WICHITA, KANSAS

Baughman Company, P.A. 315 Ella St. Wichita, KS 67211 P 316.262.2171 F 316.262.2149
ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE

PROJECT NUMBER	DESIGN	DRAWN
4686.302		TMS
REVISIONS:	APPROVED	DATE 03.07
	SCALE Noted	
	SHEET 3 OF 22	

Meadowlake Beach/Mass3 06-10-E676

Construct hay bale barrier per detail, sheet 18.

Construct ditch to ensure positive drainage of sump areas. See detail, sheet 3.

Construct hay bale ditch check per detail, sheet 18.

Construct ditch to ensure positive drainage of sump areas. See detail, sheet 3.

Construct berm per detail, this sheet. Cost of berm construction to be incidental to lump sum bid item "Mass Grading".

Construct ditch to ensure positive drainage of sump areas. See detail, sheet 3.

Construct hay bale ditch check per detail, sheet 18.

Berm (Res. "C")

Height Varies (6'-8'). See Plans.

Scale: 1" = 60'

EROSION CONTROL PLAN LEGEND

(Installation Details Found in the SWP2 Plan)

- HEAVY STONE RIP-RAP
- DROP INLET PROTECTION
- CURB INLET PROTECTION
- STRAW BALE BARRIERS
- SILT FENCING
- EARTH DIKES
- TEMPORARY DITCH

NO SCALE

Area to be graded

1265 Existing Grade

1265 Proposed Grade

FEMA BFE Line

Install 1,400 L.F. silt fence per detail, sheet 19.

Regrade existing ditch, from proposed grades shown at property line, down to flowline cut-outs, with flowline being 30' east of property line.

Install 588 L.F. silt fence per detail, sheet 19.

Construct hay bale ditch check per detail, sheet 18.

Construct ditch to ensure positive drainage of sump areas. See detail, sheet 3.

Contractor shall grade 5' into easement and then tie back into existing concrete wall. Concrete Wall shall remain undisturbed throughout construction.

MEADOWLAKE BEACH ADDITION

MASS GRADING PLAN

WICHITA, KANSAS

Baughman Company, P.A. 318 Ella St. Wichita, KS 67211 P 316.262.7271 F 316.262.6249
ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE

PROJECT NUMBER 468843-2

REVISIONS

DESIGN ATD DRAWN TMS

APPROVED DATE 03-07

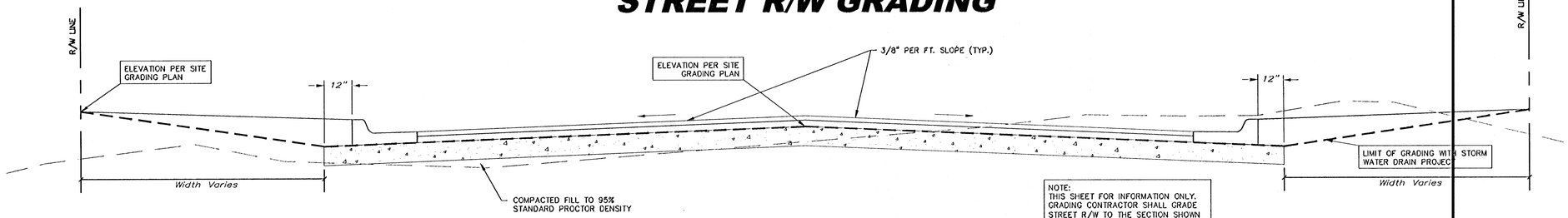
SCALE Noted

SHEET 4 OF 22

Meadowlake Beach/Mass4 06-10-E676

TYPICAL MASS GRADING DETAIL

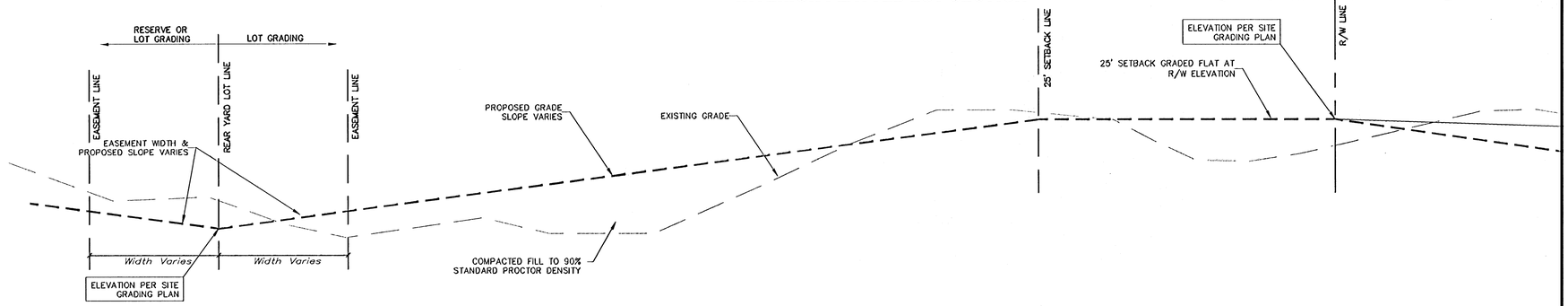
STREET R/W GRADING



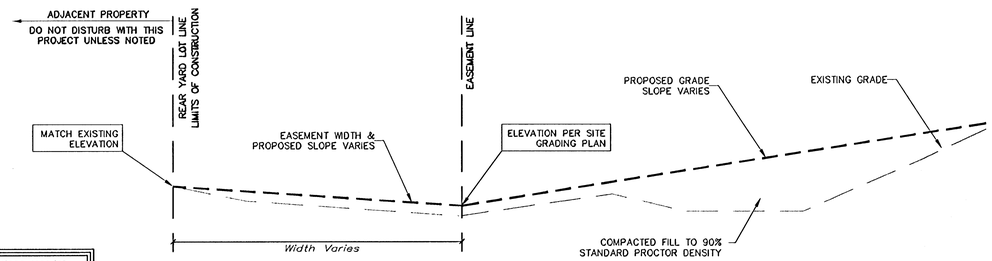
NOTE:
THIS SHEET FOR INFORMATION ONLY. GRADING CONTRACTOR SHALL GRADE STREET R/W TO THE SECTION SHOWN (+/-0.1') AND SHALL PERFORM COMPACTION AS INDICATED. SEE SITE GRADING PLAN FOR ELEVATIONS

LOT FILL GRADING

INTERIOR PLATTED LOT SECTION



EXTERIOR PLATTED LOT SECTION



NOTE:
GRADING CONTRACTOR SHALL GRADE LOTS TO THE SECTION SHOWN (+/-0.2') AND SHALL PERFORM COMPACTION AS INDICATED. SEE SITE GRADING PLAN FOR ELEVATIONS

When trees are present along rear lot line, grade shall match at trunk line and trees shall not be disturbed. Any trimming of trees shall be approved by the engineer and owner.

Baughman

MASS GRADING TYPICAL SECTION

Baughman Company, P.A. 315 Ella St. Wichita, KS 67211 P 316.267.7221 F 316.267.2149
ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE

PROJECT NUMBER	DESIGN	DRAWN
468-84302	C.O.W.	STAFF
REVISIONS	APPROVED	DATE
		03/07
	SCALE	
	NONE	
	SHEET	
	5 OF 22	

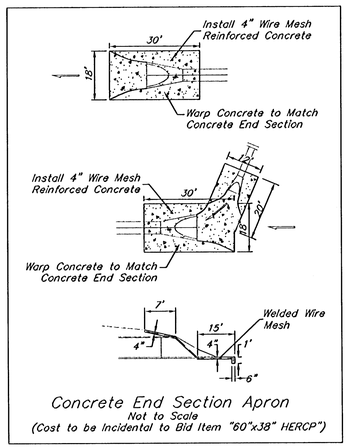
Meadow Lake Beach\MassGradingSection 06-10-E676

BM #1 – City of Wichita
Benchmark Disc, SE Corner of
Clifton and 55th Street South,
Southwest corner of RCBC, on top
of hubguard at the West end.
ELEV. = 1263.29 NGVD29

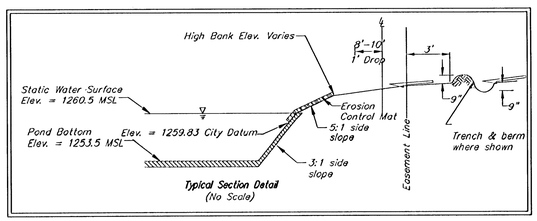
BM #2 – "□" Cut on wall footing
located 29' North of the South
end of wall, at the Southeast
corner of Lot 7 Block A,
Meadowlake Beach Addition,
Sedgwick County, Kansas.
ELEV. = 1266.82 NGVD29

BM #3 – "□" Cut Top of Curb,
West side South end of Concrete
street North west of Northeast
corner of Meadowlake Beach
Addition, Sedgwick County, Kansas.
ELEV. = 1262.86 NGVD29

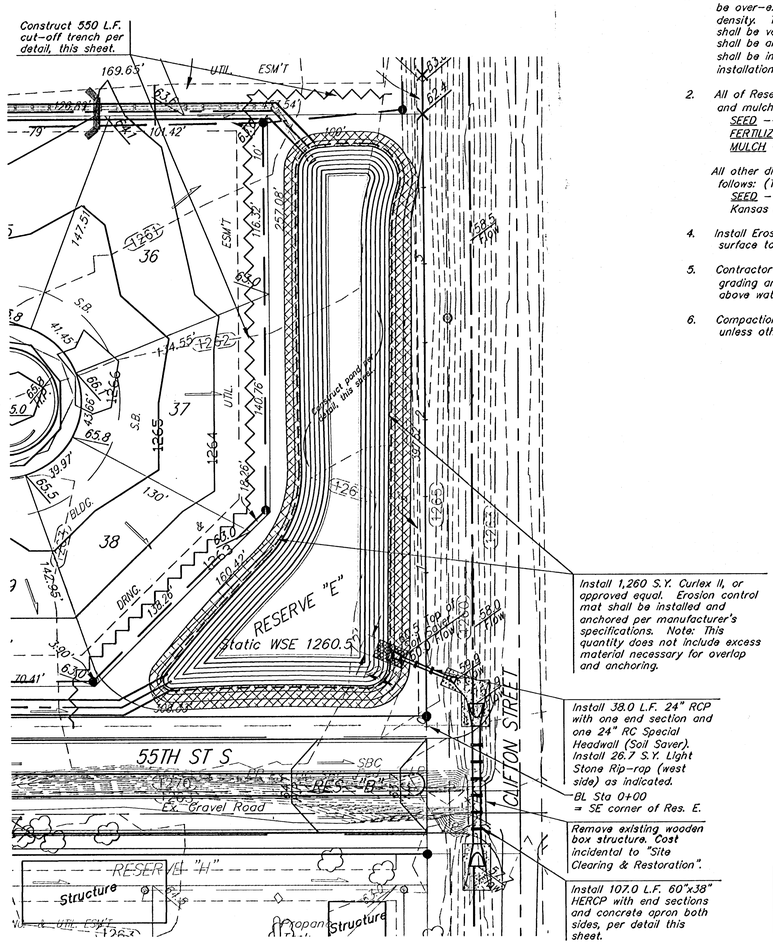
BM #4 – "□" Cut Top of Curb,
East return on East side of
Concrete street North of the
Northwest Corner of Meadowlake
Beach Addition, Sedgwick County,
Kansas.
ELEV. = 1262.95 NGVD29



Concrete End Section Apron
Not to Scale
(Cost to be Incidental to Bid Item "60"x38" HERCP")



Typical Section Detail
(No Scale)



Install 1,260 S.Y. Curlex II, or approved equal. Erosion control mat shall be installed and anchored per manufacturer's specifications. Note: This quantity does not include excess material necessary for overlap and anchoring.

Install 38.0 L.F. 24" RCP with one end section and one 24" RC Special Headwall (Soil Saver). Install 26.7 S.Y. Light Stone Rip-rap (west side) as indicated.

BL Sta 0+00
= SE corner of Res. E.

Remove existing wooden box structure. Cost incidental to "Site Clearing & Restoration".

Install 107.0 L.F. 60"x38" HERCP with end sections and concrete apron both sides, per detail this sheet.

NOTES:

1. Pond bottom and sideslopes below static pool elevation shall be over-excavated 1' and a 1' clay liner shall be compacted to 95% std. density. The plasticity index (P.I.) shall be at least 30. The compaction and P.I. shall be verified during construction. P.I. determination and compaction testing shall be arranged by the contractor at the request of the inspector. Cost shall be incidental to "Site Clearing & Restoration". Cost of over-excavation, installation and Clay Liner shall be incidental to bid item, "Excavation."

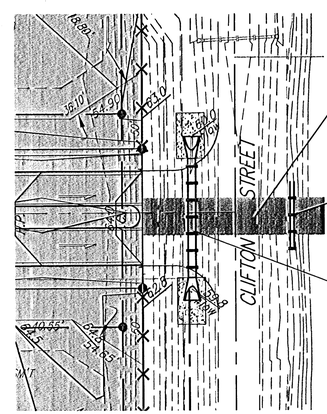
2. All of Reserve "E" above the static water surface shall be seeded and mulched as follows: (Permanent Seeding)
   SEED -- Kansas Premium Fescue Blend; 8#/1000 Sq. Ft.
   FERTILIZER -- 12-24-12 Ratio at 350 Lbs./Ac.
   MULCH -- 2 Tons Prairie Hay / Acre

   All other disturbed areas not in street R/W are to be seeded as follows: (Temporary seeding)
   SEED -- Rye grass (PLS)--5#/1000 Sq. Ft. and
   Kansas Premium Fescue Blend; 5#/1000 Sq. Ft.

4. Install Erosion Control Mat (Curlex II or approved equal) from 2' below the water surface to top bank.

5. Contractor to strip top 3" of soil within Res. "E" and street R/W before mass grading and stockpile. Top soil stockpile to be redistributed over Reserves "E" above water elevation prior to seeding.

6. Compaction of 95% shall be obtained in all street R/W's, 90% in all other areas unless otherwise noted on plans.



Contractor shall use Maywood Entrance as haul path from Borrow Pond onto Meadowlake Beach Addition site. All trucks and equipment shall be confined to this route when crossing Clifton. Any roadway damage shall be repaired immediately and removed and replaced (full-depth) at conclusion of project, the cost of which shall be incidental to "Site Clearing & Restoration".

Install 45.0 L.F. 30" CMP at existing flowline of ditch. To be removed at conclusion of construction. Cost of pipe to be incidental to lump sum bid item "Site Clearing & Restoration".

1265 — Existing Grade
1265 — Proposed Grade
Cut-off Trench
Erosion Control Mat

EARTH WORK TOTALS

	EXCAVATION	FILL
LOT GRADING	18,633	164,764
BERM RES. G	138	19,252
POND RES. E	7,024	208
TOTAL	25,795	184,224

Earthwork quantities do not include correction factors and are for reference only. All cost associated with mass grading shall be included in the bid item "Mass Grading".

Scale: 1" = 40'

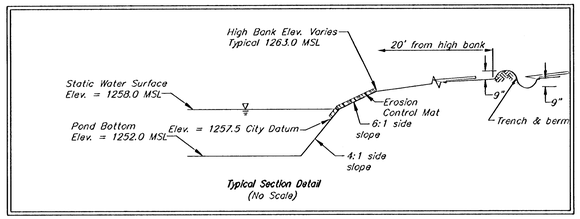
Baughman

MEADOWLAKE BEACH ADDITION
POND PLANS
WICHITA, KANSAS

Baughman Company, P.A. 315 Ella St. Wichita, KS 67211 P 316.263.2771 F 316.263.2149
ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE

PROJECT NUMBER 468-84303
REVISIONS
DESIGN ATD
DRAWN TMS
APPROVED
DATE 03-07
SCALE Noted
SHEET 6 OF 22

Meadowlake Beach/Ponds 06-10-E676



Typical Section Detail
(No Scale)

---1264---- Existing Grade

——1264—— Proposed Grade

Cut-off Trench

Erosion Control Mat

Scale: 1" = 40'

NOTES:

1. Pond is groundwater controlled and will not have a clay liner.

2. Install Erosion Control Mat Curlex II or approved equal) from 2' below the water surface to top bank.

3. Entire Borrow Pond supplies approximately 425,583 C.Y. of excavation. Contractor shall excavate what is needed to complete grading at Meadowlake Beach Addition, beginning at the north end and working south. See sheet 3 for earthwork quantities.

Construct 2,940 L.F. cut-off trench per detail, this sheet.

Install 10,967 S.Y. Curlex II, or approved equal. Erosion control mat shall be installed and anchored per manufacturer's specifications. Note: This quantity does not include excess material necessary for overlap and anchoring.

Construct pond per detail, this sheet.

CLIFTON STREET

1264
1265
1266
1267
1268
1269
1270

Baughman

MEADOWLAKE BEACH ADDITION

BORROW POND PLAN

WICHITA, KANSAS

Baughman Company, P.A. 318 Elle St. Wichita, KS 67211 P 316.263.7331 F 316.263.7349
ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE

PROJECT NUMBER	DESIGN	DRAWN
468-84362	ATD	TMS
REVISIONS	APPROVED	DATE
		03/07
	SCALE	
	Noted	
	SHEET	
	7 OF 22	

Meadowlake Beach/Borrow Pond1 06-10-E676

---1264---- Existing Grade

——1264—— Proposed Grade

Cut-off Trench

Erosion Control Mat

Scale: 1" = 40'

Entire Borrow Pond supplies approximately 425,583 C.Y. of excavation. Contractor shall excavate what is needed to complete grading at Meadowlake Beach Addition, beginning at the north end and working south.

Construct pond per detail, sheet X

APPROXIMATE SOUTH LINE OF EXCAVATION WITH THIS PROJECT

CLIFTON STREET

60.80 Flow

Future Pond

MEADOWLAKE BEACH ADDITION

BORROW POND PLAN

WICHITA, KANSAS

Baughman

Baughman Company, P.A. 315 Ella St. Wichita, KS 67211 P 316.263.7271 F 316.263.0749
ENGINEERING | INVESTING | PLANNING | LANDSCAPE ARCHITECTURE

PROJECT NUMBER 468-84302

REVISIONS

DESIGN ATD | DRAWN TMS

APPROVED | DATE 03/07

SCALE Noted

SHEET **8** OF **22**

MeadowlakeBeachBorrowPond2 06-10-E676

Scale: 1" = 40'

APPROXIMATE SOUTH LINE OF EXCAVATION WITH THIS PROJECT

Proposed Pond

Install 45.9 S.Y. Heavy Stone Rip-rap as indicated.

Future Pond

Future Pond

60.50 Flow

Match Point

60.45 Flow

60.40 Flow

60.35 Flow

60.30 Flow

60.25 Flow

60.20 Flow

60.15 Flow

60.10 Flow

60.80 Flow

60.75 Flow

60.70 Flow

60.65 Flow

60.60 Flow

60.55 Flow

60.50 Flow

Match Point

Construct ditch per detail, this shee and install 14 Hay Bale Ditch Checks per detail, sheet 18. All costs to be incidental to "Site Clearing and Restoration".

Install 91.0 S.Y. Heavy Stone Rip-rap as indicated.

BL Sta 0+00 = Intersection of 55th St. S. & Clifton Ave.

CLIFTON STREET

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TYPICAL DITCH SECTION

Match

4:1 Sideslopes

Depth Varies

4:1 Sideslopes

Match

20' Bottom

No Scale

Baughman

MEADOWLAKE BEACH ADDITION

BORROW POND PLAN

WICHITA, KANSAS

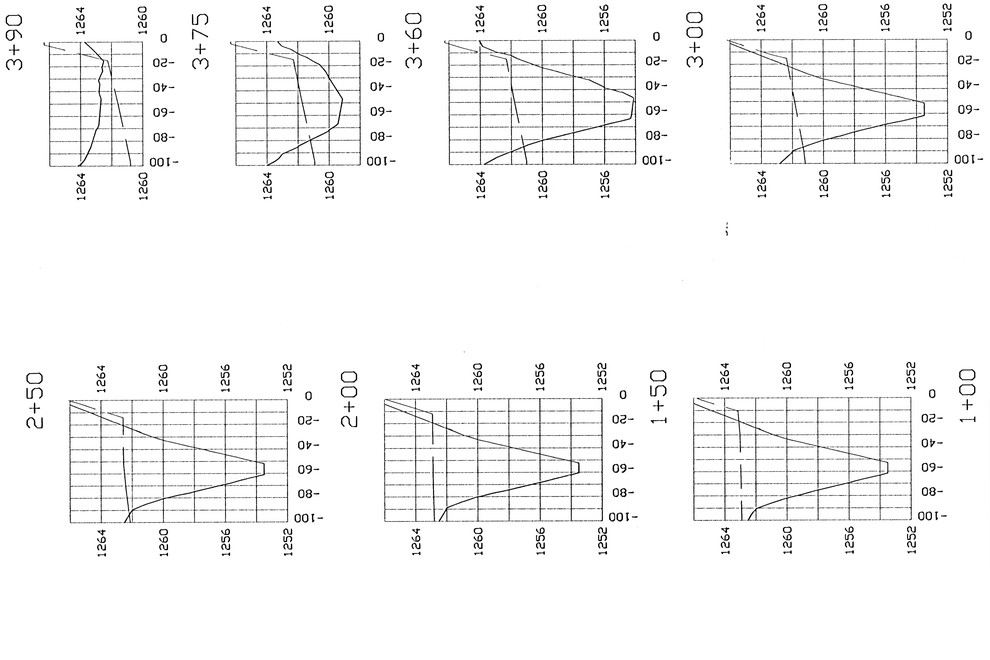
Baughman Company, P.A. 315 Ellis St. Wichita, KS 67211 P 316.263.7271 F 316.263.7149
ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE

PROJECT NUMBER 468-84302

REVISIONS

DESIGN ATD | DRAWN TMS | APPROVED | DATE 03/07 | SCALE Noted | SHEET 9 OF 22

J:\Meadowlake Beach\Borrow Pond3 06-10-E676



Baughman

Baughman Company, P.A. 315 Ella St. Wichita, KS 67211 P 316-262-2271 F 316-262-0149
ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE

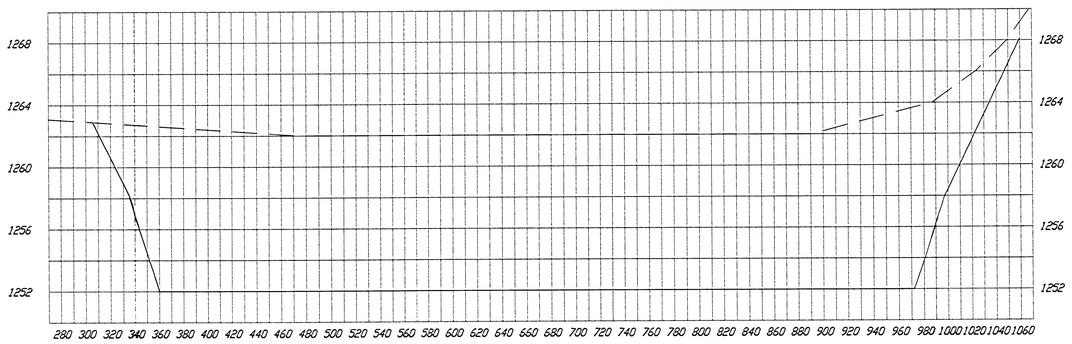
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46884302

SHEET
10 OF 22

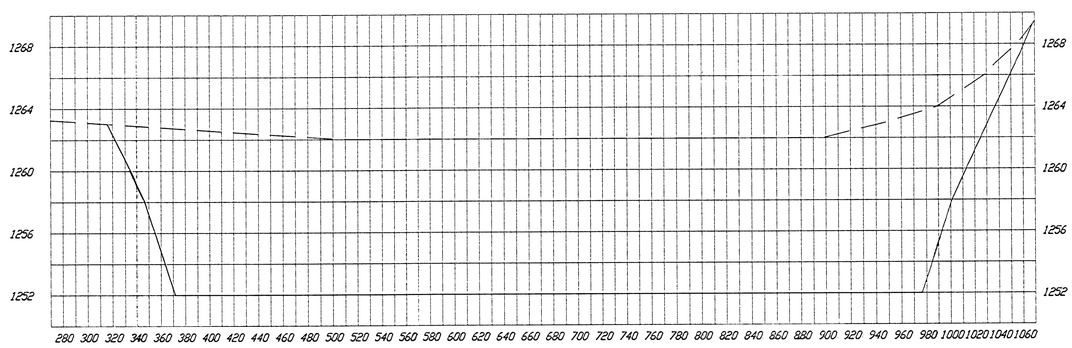
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06-10-E676

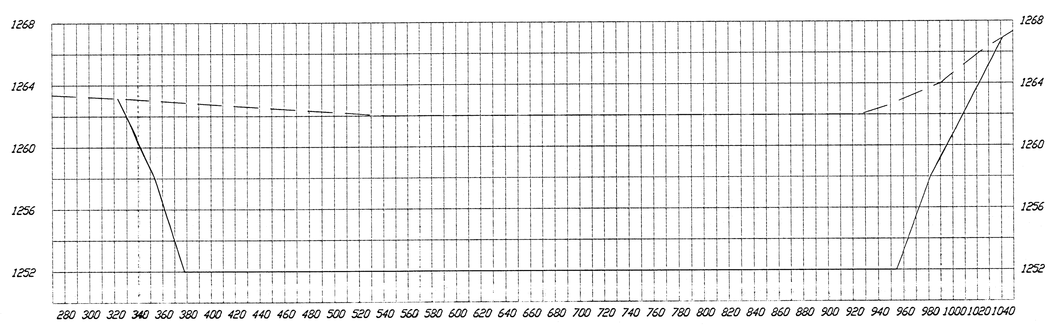
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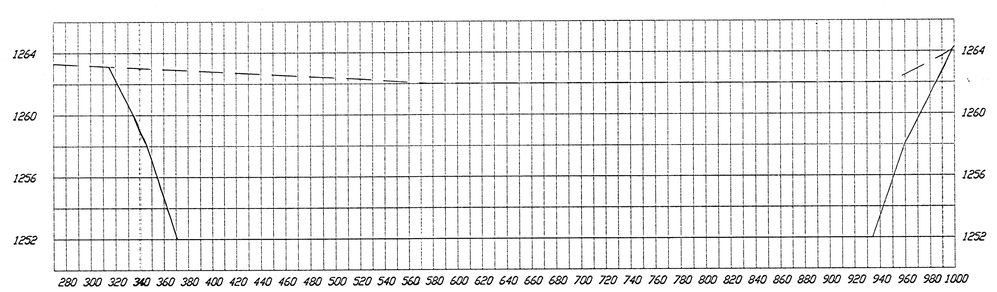
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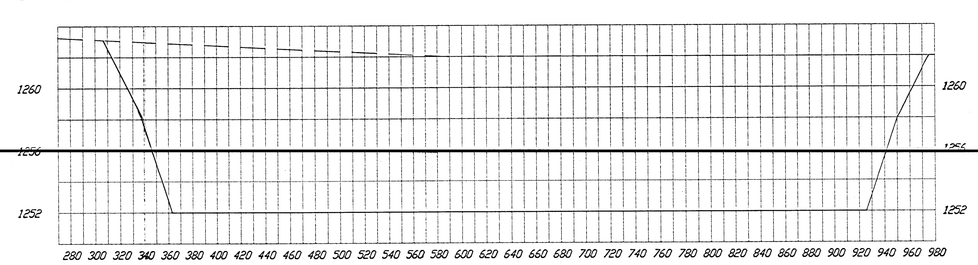
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14+50



14+20



Borrow Excavation Pond

Baughman
Baughman Company, P.A. 3133 Elis St. Wichita, KS 67211 P 316.263.1271 F 316.263.1619
ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE

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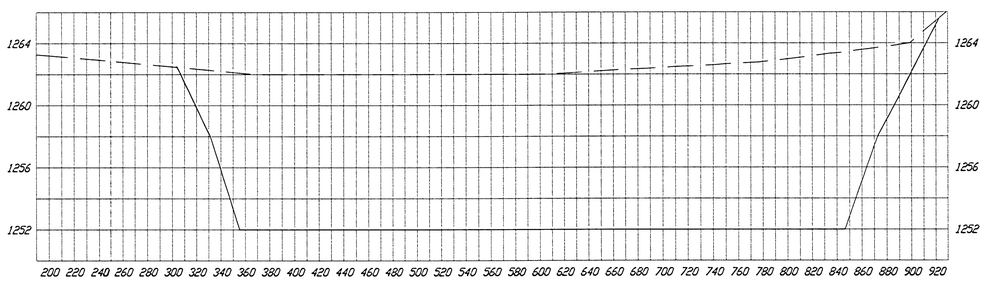
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PROJECT NUMBER

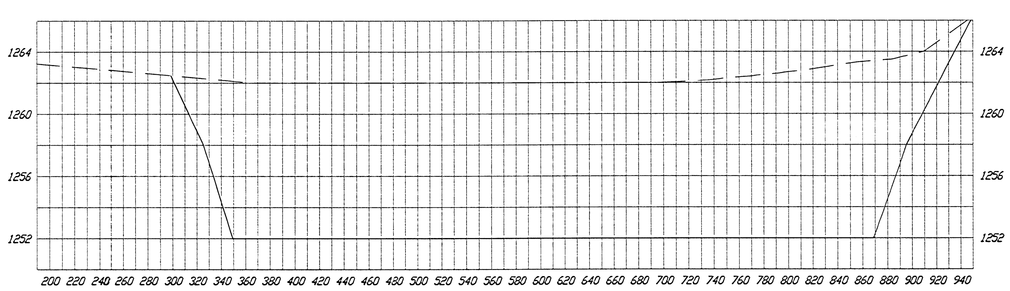
SHEET 11 OF 22

09/15/2015

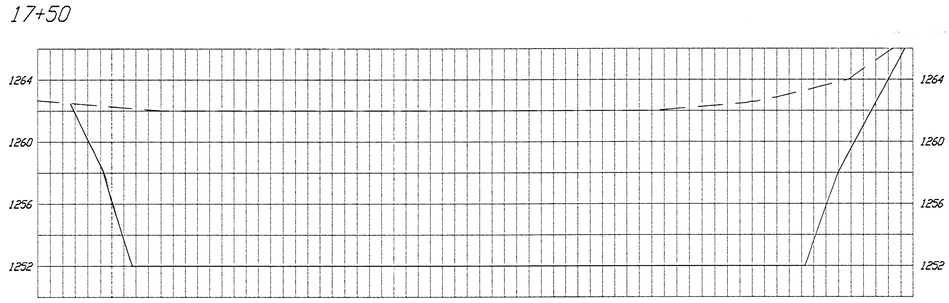
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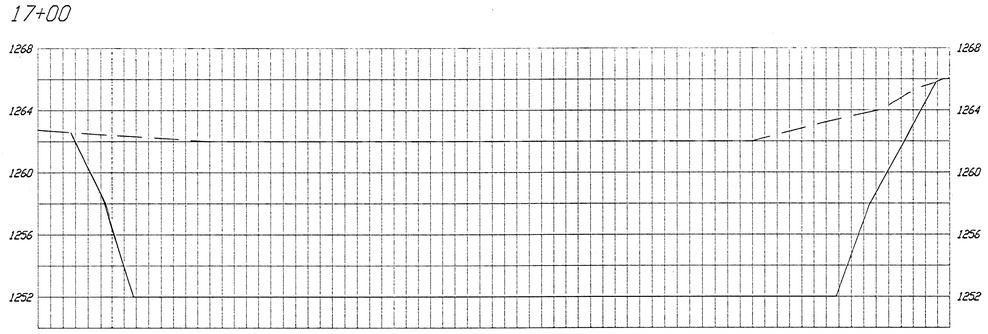
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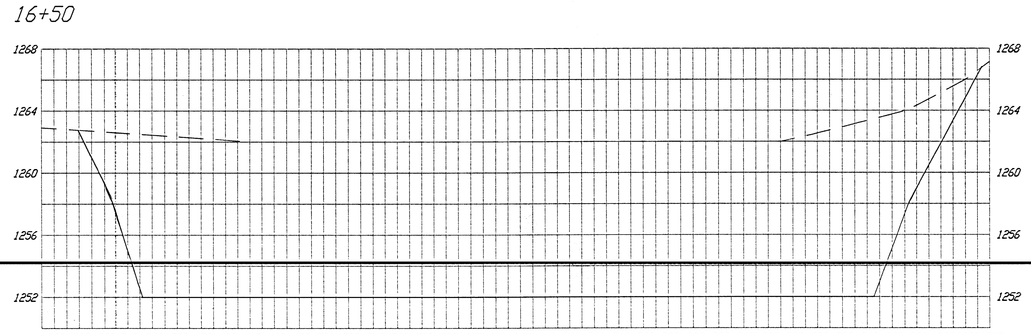
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Borrow Excavation Pond

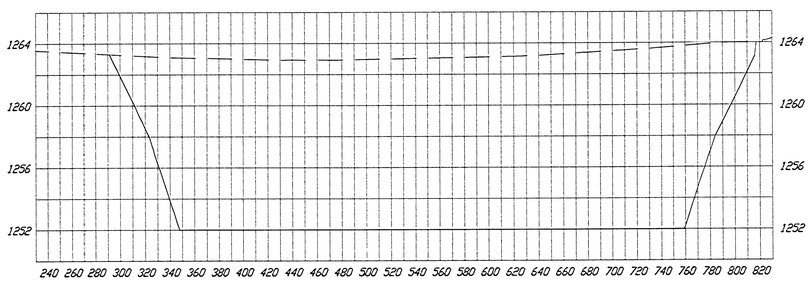
Baughman
Baughman Company, P.A. 315 Ellis St. Wadena, MN 56482 P 218.631.3731 F 218.631.4149
ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE
Fax: 218.631.3804
4-884302

Model:Ashbaugh3D-6033

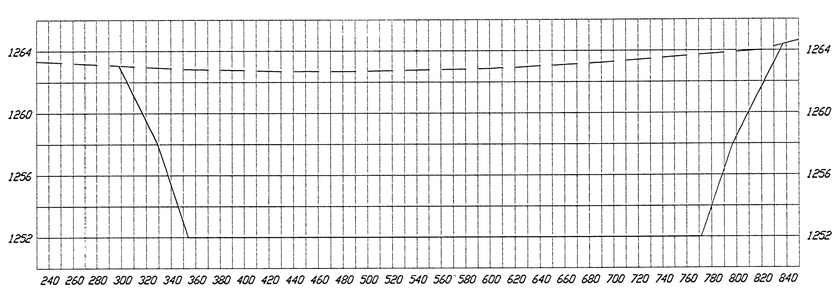
12 OF 22

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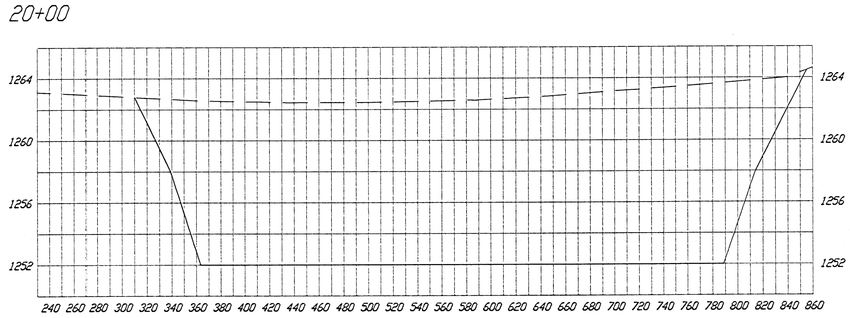
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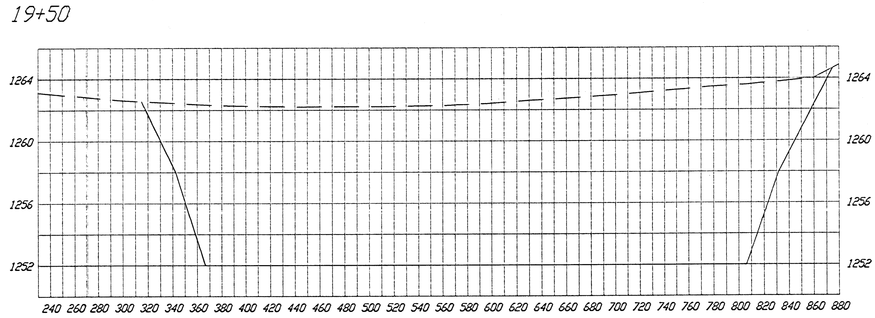
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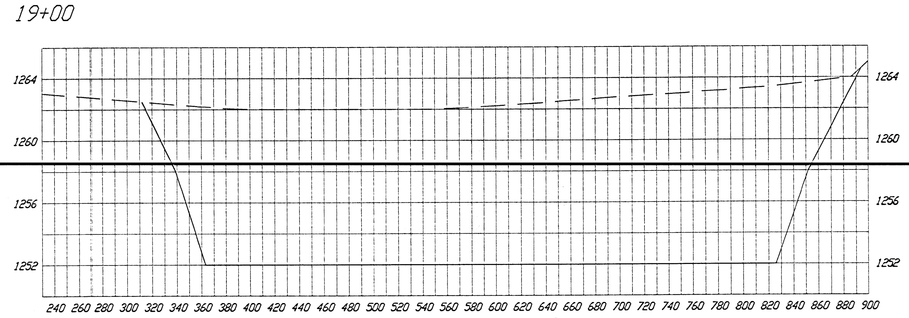
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19+50



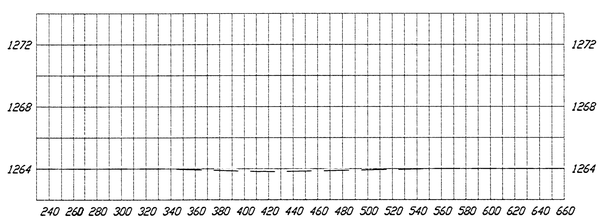
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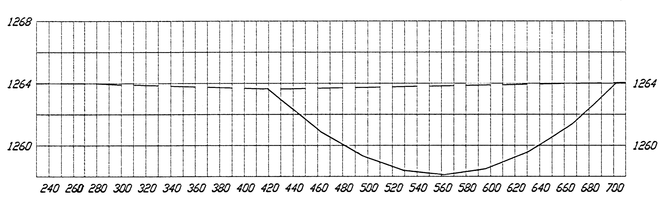
Borrow Excavation Pond

Baughman
Baughman Company, P.A. | TITLE & SURVEY | PLANNING | LANDSCAPE ARCHITECTURE
ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE
PROJECT NUMBER
46881002
SHEET
13 OF 22
Model: Sec3Proc6534
Dwg: DSE676

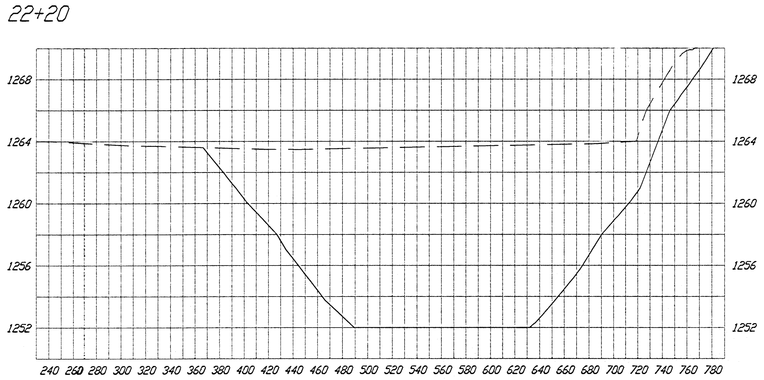
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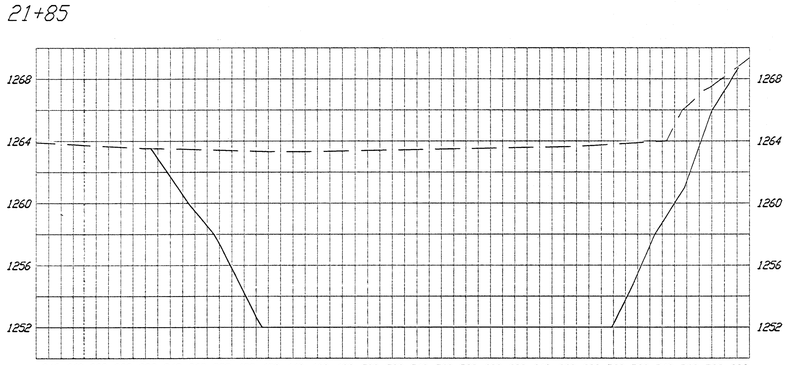
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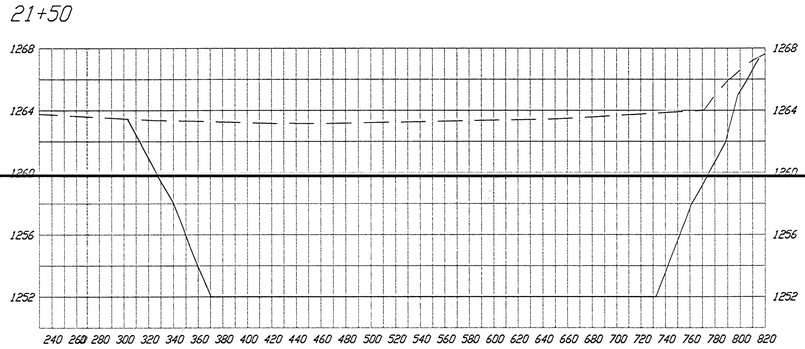
22+20



21+85



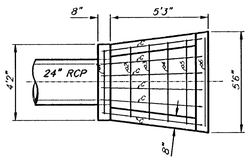
21+50



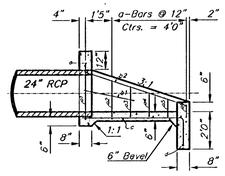
Borrow Excavation Pond

Baughman

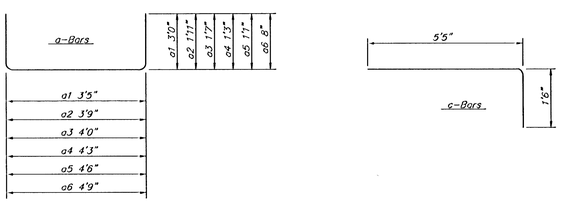
Baughman Company, P.A. 151 Fifth St. Watkins, MN 55391 | 763.262.2777 | 763.262.2778
ENGINEERS | PLANNERS | LANDSCAPE ARCHITECTS
PROJECT NUMBER
46884402
SHEET
14 OF 22
Metadata: SmallPond.dat53
05/19/26



PLAN



SECTION



REBAR SCHEDULE

Bar	Shape	No.	Length	Weight
a1		1	9'5"	6.29
a2		1	7'7"	5.07
a3		1	7'2"	4.79
a4		1	6'9"	4.51
a5		1	6'4"	4.23
a6		1	6'1"	4.06
b1		2	2'9"	3.67
b2		2	5'10"	7.79
c		6	6'11"	27.72
d		1	5'0"	3.37
e		1	3'10"	2.56
Total Rebar				74.03 Lbs.
Concrete				1.40 C.Y.

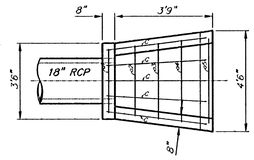
A Deduction in Concrete Quantities Has Been Made for Pipe Openings Through the Headwall

* Field Bend or Cut Reinforcing as Required for Clearance.

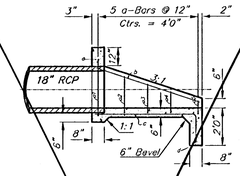
All Concrete Reinforcement to be #4 Rebar

All Rebar to Have Min. of 1 1/2" Conc. Cover

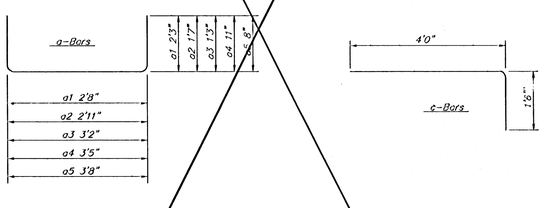
SPECIAL HEADWALL FOR 24" RCP



PLAN



SECTION



REBAR SCHEDULE

Bar	Shape	No.	Length	Weight
a1		1	7'2"	4.79
a2		1	6'1"	4.06
a3		1	5'8"	3.79
a4		1	5'3"	3.51
a5		1	5'0"	3.34
b		2	4'0"	5.34
c		5	3'8"	12.33
d		1	4'0"	2.67
e		1	3'2"	2.12
Total Rebar				47.99 Lbs.
Concrete				0.91 C.Y.

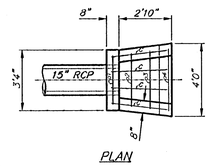
A Deduction in Concrete Quantities Has Been Made for Pipe Openings Through the Headwall

* Field Bend or Cut Reinforcing as Required for Clearance.

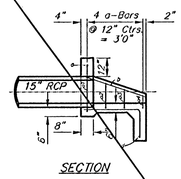
All Concrete Reinforcement to be #4 Rebar

All Rebar to Have Min. of 1 1/2" Conc. Cover

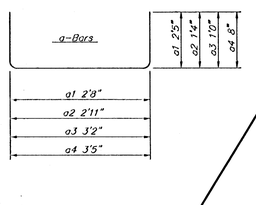
HEADWALL FOR 18" RCP



PLAN



SECTION



REBAR SCHEDULE

Bar	Shape	No.	Length	Weight
a1		1	7'6"	5.01
a2		1	5'7"	3.73
a3		1	5'2"	3.45
a4		1	4'9"	3.17
b		2	4'0"	5.34
c		5	5'6"	14.70
d		1	1'8"	2.38
e		1	2'8"	1.78
Total Rebar				39.46 Lbs.
Concrete				0.67 C.Y.

A Deduction in Concrete Quantities Has Been Made for Pipe Openings Through the Headwall

* Field Bend or Cut Reinforcing as Required for Clearance.

All Concrete Reinforcement to be #4 Rebar

All Rebar to Have Min. of 1 1/2" Conc. Cover

HEADWALL FOR 15" RCP

GENERAL NOTES

1. ALL PIPES SHALL BE FLUSH CUT PRIOR TO BEING CAST INTO CONCRETE HEADWALL
2. CONCRETE USED IN HEADWALL CONSTRUCTION SHALL BE SAME AS PER CITY STANDARD PAVING MIX EXCEPT THAT IT SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 P.S.I.
3. ALL EXPOSED EDGES SHALL BE BEVELED 1/2".
4. REINFORCING STEEL SHALL COMPLY TO A.S.T.M. DESIGNATION A615 GRADE 60. ALL DIMENSIONS RELATIVE TO REINFORCING STEEL ARE TO CENTERLINE OF BAR UNLESS OTHERWISE NOTED.
5. THE "REIN. CONC. HEADWALL" SHALL BE PAID FOR AT THE UNIT PRICE BID PER EACH IN PLACE WHICH SHALL INCLUDE ALL LABOR, MATERIALS, EXCAVATION, CONCRETE, REINFORCING STEEL AND ALL OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK. MATERIAL QUANTITIES SHOWN ARE FOR INFORMATION ONLY.

Baughman

HEADWALL DETAIL

Baughman Company, P.A. 315 Ella St. Wichita, KS 67211 P 316.267.7271 F 316.267.0149
ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE

PROJECT NUMBER 46884.02

REVISIONS

DESIGN BLP/DMV — DRAWN JAK

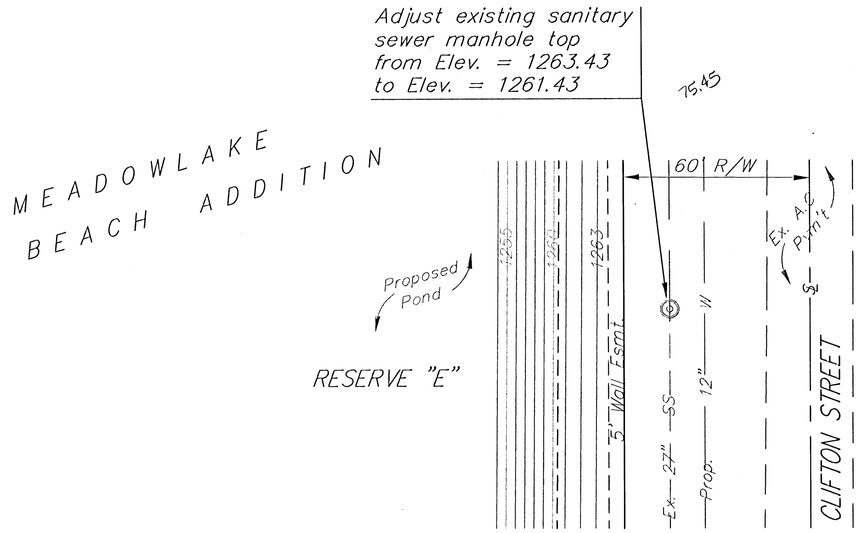
APPROVED — DATE 03/07

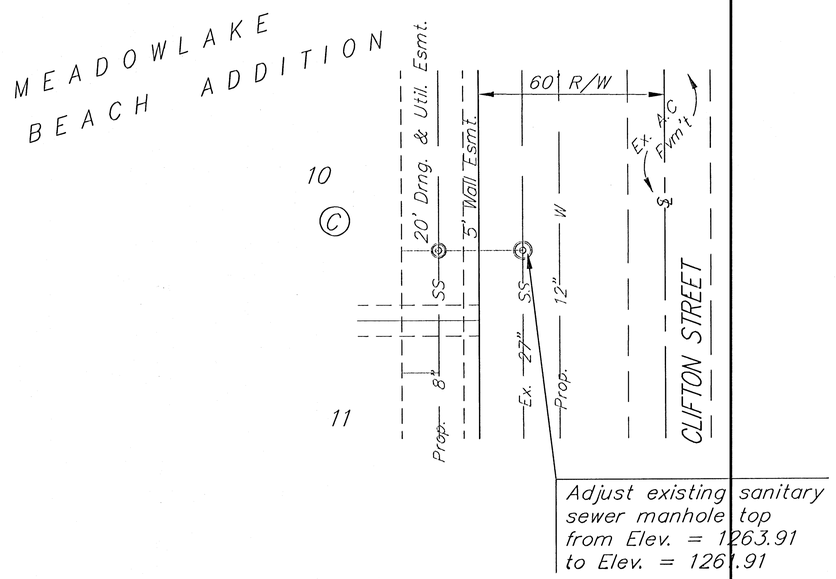
SCALE Noted

SHEET 15 OF 22

Hdwldet

Scale: 1" = 20' Horizontal
• = Iron





Baughman

MEADOWLAKE BEACH ADDITION
SS MANHOLE ADJUSTMENTS
STORM WATER DRAIN IMPROVEMENTS

Baughman Company, P.A. 315 Ellis St. Wichita, KS 67211 P 316.263.7771 F 316.263.7149
ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE

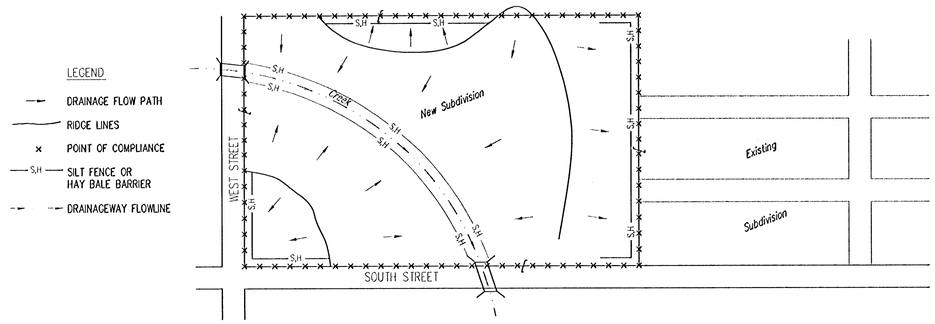
PROJECT NUMBER 41384302

REVISIONS

DESIGN ATD | DRAWN TMS
APPROVED | DATE 03/07
SCALE Noted
SHEET **16** OF **22**

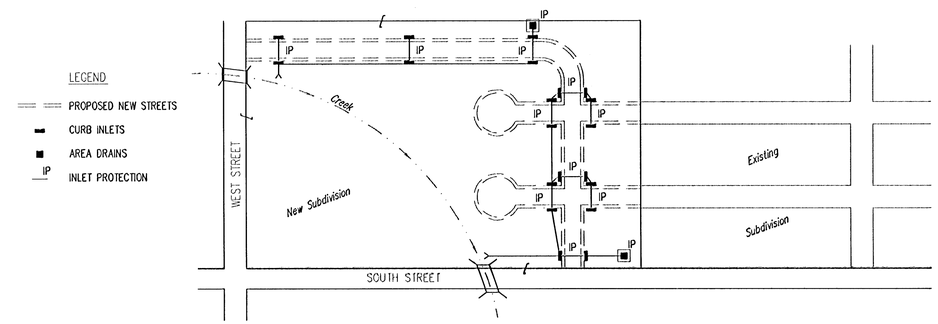
MeadowlakeBeach\SWD\SSadjustment 06-10-E676

PHASE 1 – INITIAL EARTHWORK AND UTILITIES (EXCEPT STORM SEWER)



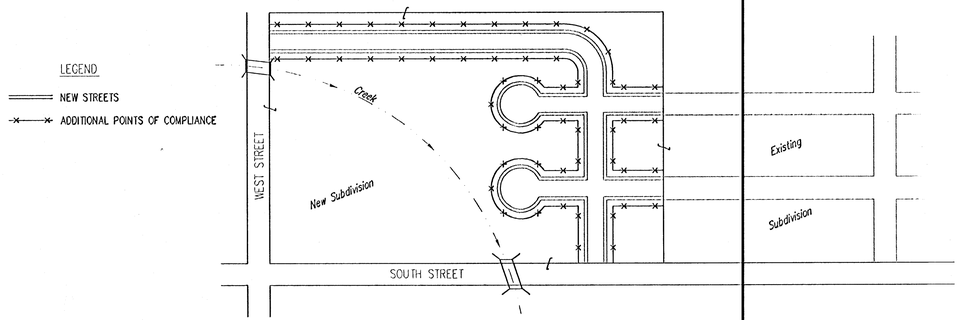
1. DURING THIS PHASE OF SUBDIVISION CONSTRUCTION, THE POINTS OF COMPLIANCE ARE THE PERIMETER BOUNDARIES AND ANY DRAINAGE WAYS OR STORM SEWERS DRAINING THROUGH OR FROM THE SITE. SHOULD LAKES BE CONSTRUCTED WITHIN THE SUBDIVISION THAT WILL DISCHARGE DURING STORMS, THEY ARE ALSO A POINT OF COMPLIANCE.
2. HAY BALES OR SILT FENCE MUST BE CONSTRUCTED ALONG THE PROPERTY LINE WHERE ON SITE WATER CAN DRAIN OFF THE PROPERTY. THESE EROSION CONTROL DEVICES WILL ALSO BE INSTALLED ALONG ANY DRAINAGE DITCH OR LAKE THAT CAN DISCHARGE.
3. SHOULD SILT OR SEDIMENT ENTER THE DITCHES OR STREETS ON THE ADJACENT BOUNDARY STREETS, APPROPRIATE EROSION CONTROL DEVICES WILL BE PLACED WITHIN THE SUBDIVISION TO PREVENT THIS.
4. ANY MUD TRACKED ONTO ADJACENT STREETS WILL BE REMOVED WITHIN 48 HOURS OR BY FRIDAY AT 6:00 PM, WHICHEVER IS EARLIER.
5. CONTRACTORS WORKING WITHIN THE SITE WILL NOT BE REQUIRED TO USE INDIVIDUAL EROSION CONTROL DEVICES AS LONG AS THOSE SPECIFIED ABOVE ARE IN PLACE AND EFFECTIVE. CONTRACTORS WORKING ON THE BOUNDARY LINE STREETS OR ON ADJACENT PROPERTIES TO EXTEND UTILITIES ARE EXPECTED TO USE EROSION CONTROL DEVICES AT THEIR WORK LOCATIONS, AS NEEDED.
6. UTILIZE STABILIZED CONSTRUCTION ENTRANCE AT ENTRANCE AND EXIT ONTO ANY EXISTING PUBLIC STREETS.
7. IF THE INITIAL EARTH WORK AND UTILITIES ARE DONE AS PART OF A PUBLIC IMPROVEMENT PROJECT, THESE EROSION CONTROL DEVICES WILL BE INSTALLED BY THE CONTRACTOR AS SPECIFIED IN THE INDIVIDUAL PROJECT CONTRACTS. THE CONTRACTOR WILL MAINTAIN THE DEVICES UNTIL COMPLETION OF THE CONTRACT, AT WHICH TIME THE DEVELOPER WILL ASSUME MAINTENANCE RESPONSIBILITIES. IF THESE CONTRACTS ARE NOT PUBLIC IMPROVEMENT PROJECTS, THE DEVELOPER WILL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THESE DEVICES.
8. WITHIN 14 DAYS OF COMPLETION OF EARTHWORK ACTIVITIES IN ANY GIVEN AREA, THAT AREA SHALL BE TEMPORARILY OR PERMANENTLY SEEDED AND MULCHED.

PHASE 2 – INSTALLATION OF STORM SEWER



1. DURING THIS PHASE OF SUBDIVISION DEVELOPMENT, ALL EROSION CONTROL DEVICES REQUIRED IN PHASE 1 SHALL REMAIN IN PLACE AND BE MAINTAINED.
2. AS NEW STORM SEWERS, WITH INLETS, ARE INSTALLED, THE STORM SEWERS MUST NOW BE PROTECTED SO ALL NEW INLETS BECOME POINTS OF COMPLIANCE.
3. AREA DRAINS – AS SOON AS WATER CAN FLOW INTO THESE DRAINS, HAY BALE OR SILT FENCE PROTECTION WILL BE INSTALLED AROUND THEM.
4. CURB OPENING INLETS – AS SOON AS WATER CAN FLOW INTO THESE DRAINS, INLET PROTECTION DEVICES MUST BE INSTALLED. IF WATER CANNOT FLOW INTO CURB INLETS UNTIL STREET CONSTRUCTION IS COMPLETE, THEN STREET CONTRACTOR WILL INSTALL INLET PROTECTION. SEE PHASE 3 – STREET CONSTRUCTION.
5. THE STORM SEWER CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING THESE DEVICES.
6. THE SUBDIVISION DEVELOPER WILL MAINTAIN THESE EROSION CONTROL DEVICES ONCE INSTALLED.
7. ALL DISTURBED GROUND WILL BE FINAL GRADED AND TEMPORARILY OR PERMANENTLY SEEDED WITHIN 14 DAYS IF COMPLETION OF WORK IN ANY GIVEN PART OF THE SUBDIVISION.
8. ONCE ALL DISTURBED GROUND DRAINING TO AN INLET HAS BEEN RESTABILIZED WITH GRASS OR SOD, THE SUBDIVISION DEVELOPER WILL BE RESPONSIBLE FOR PERMANENTLY REMOVING THE INLET PROTECTION.

PHASE 3 – STREET CONSTRUCTION

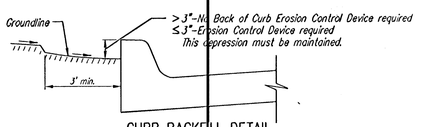


1. DURING THIS PHASE OF SUBDIVISION CONSTRUCTION, NEW STREETS ARE INSTALLED. ALL EROSION CONTROL DEVICES INSTALLED DURING PHASE 1 AND 2 MUST STILL BE MAINTAINED. THE POINT OF COMPLIANCE NOW SHIFTS TO THE BACK OF CURB ALONG EACH STREET.
2. CURB OPENING INLET PROTECTION:
   A. SUMP AREAS – INLET PROTECTION SHALL BE PROVIDED WHEN STREET SUBGRADE WORK IS COMPLETED.
   B. NON-SUMP LOCATIONS – PROVIDE INLET PROTECTION AS SOON AS BASE COURSE ASPHALT IS INSTALLED, BEFORE THE SURFACE COURSE LIFT.
3. EROSION CONTROL DEVICES WILL BE REQUIRED BACK OF CURB WHEREVER WATER CAN FLOW OVER THE CURB AND THE CURB HAS BEEN BACKFILLED TO WITHIN 3" OR LESS OF THE TOP OF CURB (SEE CURB BACKFILL DETAIL). FOR CURBS NOT YET ENTIRELY BACKFILLED (3" OR MORE BELOW TOP OF CURB), ADDITIONAL DEVICES WILL BE REQUIRED AT POINTS WHERE WATER BREAKS OVER CURB WHICH COULD RESULT IN THE PLACEMENT OF SEDIMENT IN THE GUTTER.
4. SEE DETAIL SHEET FOR BACK OF CURB PROTECTION.
5. THE BACK OF CURB PROTECTION SPECIFIED ON THIS PLAN MAY HAVE TO BE SUPPLEMENTED WITH HAY BALE OR SILT FENCE EROSION CONTROL DEVICES AT LOCATIONS WHERE CONCENTRATED FLOW RESULTS IN SEDIMENT BEING CARRIED OVER THE EXCELSIOR MATS.
6. THE STREET CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING BACK OF CURB EROSION CONTROL DEVICES.
7. THE INDIVIDUAL LOT OWNERS WILL BE RESPONSIBLE FOR MAINTAINING THE BACK OF CURB EROSION CONTROL DEVICES IN FRONT OF THEIR LOTS UNTIL SUCH TIME AS ADJACENT DISTURBED EARTH IS STABILIZED WITH GRASS OR SOD.

GENERAL NOTES:

1. THE INTENT OF ALL EROSION CONTROL DEVICES IS TO PREVENT ERODED SOIL FROM ENTERING DITCHES, STORM SEWERS, LAKES, STREETS OR ANY OTHER OTHER DRAINAGE FEATURE.
2. THIS SHEET IS INTENDED TO PROVIDE GUIDELINES AS TO WHAT TYPE OF EROSION CONTROL DEVICES WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS. CONTRACTORS ARE EXPECTED TO BID PROJECTS ACCORDINGLY.
3. EROSION CONTROL DEVICES SHALL BE MAINTAINED DURING THE CONSTRUCTION PROCESS TO REMAIN EFFECTIVE. MAINTENANCE SHALL BE AS INDICATED ON SOIL EROSION BMP'S DETAIL SHEETS.
4. PERSONS DESTROYING EROSION CONTROL DEVICES SHALL BE RESPONSIBLE FOR IMMEDIATELY REPAIRING THEM OR INSTALLING SUITABLE REPLACEMENT DEVICES.
5. THE DEVELOPMENT OF ANY SUBDIVISION THAT DISTURBS 1 ACRE OR MORE WILL REQUIRE A FEDERAL/STATE NPDES STORMWATER PERMIT. THE PREPARATION OF A STORMWATER POLLUTION PREVENTION PLAN IS REQUIRED. EROSION CONTROL DEVICES ARE REQUIRED. THE DETAILS SHOWN ON THIS SHEET ARE THE MINIMUM STANDARDS TO BE SHOWN ON POLLUTION PREVENTION PLANS.
6. FOR SUBDIVISIONS SMALLER THAN 1 ACRE, SOIL EROSION DEVICES ARE REQUIRED. ALSO, DEVELOPERS AND CONTRACTORS ARE ENCOURAGED TO DEVELOP POLLUTION PREVENTION PLANS FOR EACH PROJECT PRIOR TO CONSTRUCTION.
7. **FAILURE TO USE AND MAINTAIN SOIL EROSION DEVICES IS A VIOLATION OF** SECTION 16.32 OF THE CITY CODE AND WILL SUBJECT THE SUBDIVISION DEVELOPER AND CONTRACTORS TO THE PENALTIES PROVIDED THEREIN.
8. THE APPLICATION OF EROSION CONTROL DEVICES SHOWN ON THIS SHEET IS FOR SITUATIONS NORMALLY ENCOUNTERED. FROM TIME TO TIME, SITUATIONS WILL ARISE THAT MAY REQUIRE DEVICES OTHER THAN THAT SHOWN. EROSION CONTROL DEVICES, OTHER THAN THOSE SHOWN, MAY BE UTILIZED SO LONG AS THEY ARE EFFECTIVE AND MAINTAINED.
9. A STABILIZED EARTH SURFACE IS DEFINED AS ONE THAT IS HARD SURFACED WITH CONCRETE, ASPHALT, OR THE LIKE, OR ONE ON WHICH 70% OF THE GRASS HAS GERMINATED ON THE ENTIRE SURFACE.

SEE DETAIL SHEET FOR BACK OF CURB PROTECTION DETAIL



CURB BACKFILL DETAIL
(STREET CONSTRUCTION ONLY)

CITY OF WICHITA

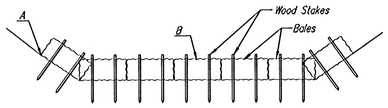
SOIL EROSION BMPs

SUBDIVISION DEVELOPMENT PROJECTS

JIM ARMOUR, P.E.
CITY ENGINEER

PROJECT NUMBER	OCA NO.
468-84302	751444
DATE: MAR 2007	SHEET 17 OF 22

NOTE: Point A must be higher than Point B so that water flows over the bales and not around them.



STRAW BALE DITCH CHECKS

Material Specification:

Bale ditch checks may be constructed of wheat straw, oat straw, prairie hay, or bromegrass hay that is free of weeds declared noxious by the Kansas State Board of Agriculture.
The stakes used to anchor the bales should be a hardwood material with the following minimum dimensions: 2" square (nominal) by 4' long.
Optional: The downstream scour apron should be constructed of a double-netted straw erosion-control blanket at least 6' wide.
Optional: The metal landscape staples used to anchor the erosion-control blanket should be at least 8" long.

Placement:

Bale ditch checks should be placed perpendicular to the flowline of the ditch.
The ditch check should extend far enough so that the ground level at the ends of the check is higher than the top of the lowest center bale. This prevents water from flowing around the check.
Straw bale ditch checks should not be placed in ditches where high flows are expected. Rock checks should be used instead.
Bales should be placed in ditches with slopes of 6% or less. For slopes steeper than 6%, rock checks should be used.
The following table provides check spacing for a given ditch grade:

Ditch Check Spacing

Ditch grade (%)	Check Spacing (feet)
0.5	200
1.0	200
2.0	100
3.0	65
4.0	50
5.0	40
6.0	30

Proper installation method:

Excavate a trench perpendicular to the ditch flowline that is 4" deep and a bale's width wide. Extend the trench in a straight line along the entire length of the proposed ditch check. Place the soil on the upstream side of the trench-it will be used later.
Optional: On the downstream side of the trench, roll out a length of erosion-control blanket (scour apron) equal to the length of the trench. Place the upstream edge of the erosion-control blanket along the bottom upstream edge of the trench. The erosion control blanket should be anchored in the trench with one row of 8" landscape staples placed on 18" centers. The remainder of the erosion-control blanket (the portion that is not lying in the trench) will serve as the downstream scour apron. This section of the blanket should be anchored to the ground with 8" landscape staples placed around the perimeter of the blanket on 18" centers. The remainder of the blanket should be anchored using two evenly spaced rows of 8" landscape staples on 18" centers placed perpendicular to the flowline of the ditch.
Place the bales in the trench, making sure that they are butted tightly. Two stakes should be driven through each bale along the centerline of the ditch check, approximately 6" to 8" in from the bale ends. Stakes should be driven at least 12" into the ground.
Once all the bales have been installed and anchored, place the excavated soil against the upstream side of the check and compact it. The compacted soil should be no more than 3" to 4" deep and extend upstream no more than 24".

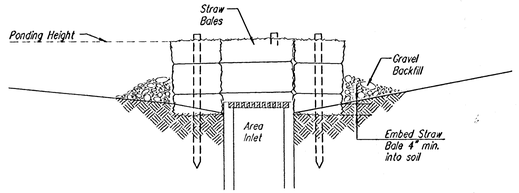
List of common placement/installation mistakes to avoid:

Do not place a bale ditch check directly in front of a culvert outlet. It will not stand up to the concentrated flow.
Do not place bale ditch checks in ditches that will likely experience high flows. They will not stand up to concentrated flow.
Follow prescribed ditch-check spacing guidelines. If spacing guidelines are exceeded, erosion will occur between the ditch checks.
Do not allow water to flow around the ditch check. Make sure that the ditch check is long enough so that the ground level at the ends of the check is higher than the top of the lowest center bale.
Do not place bale ditch checks in channels with shallow soils underlain by rock. If the check is not anchored sufficiently, it will wash out.
Bale ditch checks must be dug into the ground. Bales at ground level do not work because they allow water to flow under the check.

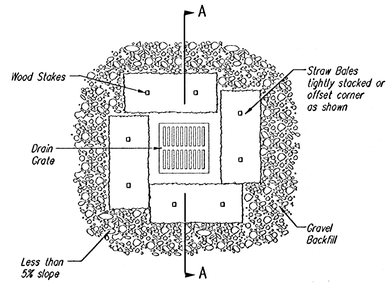
Inspection and Maintenance:

Bale ditch checks should be inspected every 7 days and within 24 hours of a rainfall of 1/2" or more. The following is a list of questions that should be addressed during each inspection:

Does water flow around the ditch check?
Does water flow under the ditch check?
Does water flow through spaces between abutting bales?
Are any bales and/or scour aprons (optional) dislodged?
Are bales decomposing due to age and/or water damage?
Does sediment need to be removed from behind the ditch check?



SECTION A-A



STRAW BALE BARRIERS FOR AREA INLETS
(INLET PROTECTION)

Material Specification:

Bale area inlet barriers should be constructed of wheat straw, oat straw, prairie hay, or bromegrass hay that is free of weeds declared noxious by the Kansas State Board of Agriculture.
The stakes used to anchor the bales should be a hardwood material with the following minimum dimensions: 2" square (nominal) by 4' long.
Twine should be used to bind bales. The use of wire binding is prohibited because it does not biodegrade readily.

Placement:

Bale area inlet barriers should be placed directly around the perimeter of a drop inlet.
When a bale area inlet barrier is located near an inlet that has steep approach slopes, the storage capacity behind the barrier is drastically reduced. Timely removal of sediment must occur for a barrier to operate properly in this location.

Proper Installation Method:

Excavate a trench around the perimeter of the area inlet that is at least 4" deep by a bale's width wide.
Place the bales in the trench, making sure that they are butted tightly. Some bales may need to be shortened to fit into the trench around the area inlet. Two stakes should be driven through each bale, approximately 6" to 8" in from the bale ends.
Stakes should be driven at least 12" into the ground.
Once all the bales have been installed and anchored, place the excavated soil against the receiving side of the barrier and compact it. The compacted soil should be no more than 3" to 4" deep.
Note: When a bale area inlet barrier is placed in a shallow median ditch, make sure that the top of the barrier is not higher than the paved road. In this configuration, water may spread onto the roadway causing a hazardous condition.

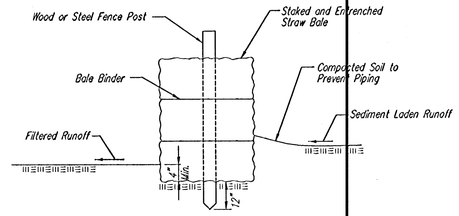
List of common placement installation mistakes to avoid:

Bales should be placed directly against the perimeter of the area inlet. This allows overtopping water to flow directly into the inlet instead of onto nearby soil causing scour.
Bale area inlet barriers must be dug into the ground. Bales at ground level do not work because they allow water to flow under the barrier.

Inspection and Maintenance:

Bale area inlet barriers should be inspected every 7 days and within 24 hours of a rainfall 1/2" or more. The following is a list of questions that should be addressed during each inspection:

Does water flow under the area inlet barrier?
Does water flow through spaces between abutting bales?
Are any bales dislodged?
Are bales decomposing due to age and/or water damage?
Does sediment need to be removed from behind the area inlet barrier?



STRAW BALE BARRIERS

Material Specification:

Bale slope barriers may be constructed of wheat straw, oat straw, prairie hay, or bromegrass hay that is free of weeds declared noxious by the Kansas State Board of Agriculture.
The stakes used to anchor the bales should be a hardwood material with the following minimum dimensions: 2" square (nominal) by 4' long.
Twine should be used to bind bales. The use of wire binding is prohibited because it does not biodegrade readily.

Placement:

A slope barrier should be used at the toe of a slope when a ditch does not exist. The slope barrier should be placed on nearly level ground 5' to 10' away from the toe of a slope. The barrier is placed away from the toe of the slope to provide adequate storage for settling out sediment.
When practicable, bale slope barriers should be placed along contours to avoid a concentration of flow.
Bale slope barriers can also be placed along right-of-way fence lines to keep sediment from crossing onto adjacent property. When placed in this manner, the slope barrier will not likely follow contours.

Proper installation method:

Excavate a trench the length of the planned slope barrier that is 4" deep and a bale's width wide. Make sure that the trench is excavated along a single contour. When practicable, slope barriers should be placed along contours to avoid a concentration of flow. Place the soil on the upslope side of the trench for later use.
Place the bales in the trench, making sure that they are butted tightly. Two stakes should be driven through each bale along the centerline of the ditch check, approximately 6" to 8" in from the bale ends. Stakes should be driven at least 12" into the ground.
Once all the bales have been installed and anchored, place the excavated soil against the upslope side of the check and compact it. The compacted soil should be no more than 3" to 4" deep.

List of common placement/installation mistakes to avoid:

When practical, do not place bale slope barriers across contours. Slope barriers should be placed along contours to avoid a concentration of flow. Concentrated flow over a slope barrier creates a scour hole on the downslope side of the barrier. The scour hole eventually undermines the bales and the barrier fails.
Do not place bale slope barriers in areas with shallow soils underlain by rock. If the barrier is not anchored sufficiently, it will wash out.
Bale slope barriers must be dug into the ground. Bales at ground level do not work because they allow water to flow under the barrier.

Inspection and Maintenance:

Bale slope barriers should be inspected every 7 days and within 24 hours of a rainfall of 1/2" or more. The following is a list of questions that should be addressed during each inspection:

Are there any points along the slope barrier where water is concentrating?
Does water flow under the slope barrier?
Does water flow through spaces between abutting bales?
Are any bales dislodged?
Are bales decomposing due to age and/or water damage?
Does sediment need to be removed from behind the slope barrier?

CITY OF WICHITA

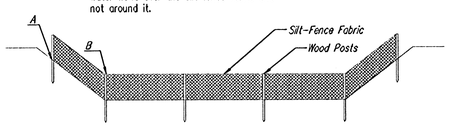
SOIL EROSION BMPs

STRAW BALE DITCH CHECK AND BARRIER DETAIL

JIM ARMOUR, P.E.
CITY ENGINEER

PROJECT NUMBER 468-84302
OCA NO. 751444
DATE MAR 2007

NOTE: Point A must be higher than Point B so that water flows over the silt fence fabric and not around it.



ELEVATION

SILT FENCE DITCH CHECKS
(STREAM PROTECTION)

Material Specification:

Silt fence fabric should conform to the AASHTO M288 96 silt fence specification.
The posts used to support the silt fence fabric should be a hardwood material with the following minimum dimensions: 2" square (nominal) by 4' long.
Silt fence fabric should be attached to the wooden posts with staples, wire, zip ties, or nails.

Placement:

Place silt fence in ditches where it is unlikely that it will be overtopped.
Water should flow through a silt fence ditch check, not over it. Silt fence ditch checks often fail when overtopped.
Silt fence ditch checks should be placed perpendicular to the flowline of the ditch.
The silt fence should extend far enough so that the ground level at the ends of the fence is higher than the top of the low point of the fence. This prevents water from flowing around the check.
Silt fence ditch checks should not be placed in ditches where high flows are expected. Rock checks should be used instead.
Silt fence should be placed in ditches with slopes of 6% or less. For slopes steeper than 6%, rock checks should be used.

The following table provides check spacing for a given ditch grade:

Ditch grade (%)	Check Spacing (feet)
0.5	200
1.0	200
2.0	100
3.0	65
4.0	50
5.0	40
6.0	30

Proper installation method:

Excavate a trench perpendicular to the ditch flowline that is at least 12" deep by 6" wide.
Extend the trench in a straight line along the entire length of the proposed ditch check.
Place the soil on the upstream side of the trench for later use.
Roll out a continuous length of silt fence fabric on the downstream side of the trench.
Place the edge of the fabric in the trench starting at the top upstream edge of the trench.
Line two sides of the trench with the fabric as shown on detail. Backfill over the fabric in the trench with the excavated soil and compact. After filling the trench, approximately 24" to 36" of silt fence fabric should remain exposed.
Lay the exposed silt fence on the upstream side of the trench to clear an area for driving in the posts. Just downstream of the trench, drive posts into the ground to a depth of at least 24". Place posts no more than 4' apart.
Attach the silt fence to the anchored post with staples, wire, zip ties, or nails.

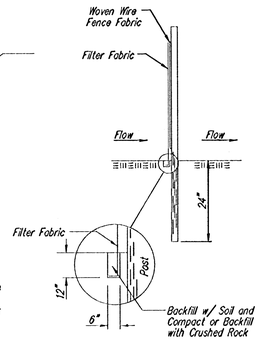
List of common placement/installation mistakes to avoid:

Water should flow through a silt fence ditch check-not over it. Place silt fence in ditches where it is unlikely that it will be overtopped. Silt fence installations quickly deteriorate when water overtops them.
Do not place silt fence posts on the upstream side of the silt fence fabric. In this configuration, the force of the water is not restricted by the posts, but only by the staples (wire, zip ties, nails, etc.). The silt fence will rip and fail.
Do not place a silt fence ditch check directly in front of a culvert outlet. It will not stand up to the concentrated flow.
Do not place silt fence ditch checks in ditches that will likely experience high flows. They will not stand up to concentrated flow.
Follow prescribed ditch check spacing guidelines. If spacing guidelines are exceeded, erosion will occur between the ditch checks.
Do not allow water to flow around the ditch check. Make sure that the ditch check is long enough so that the ground level at the ends of the fence is higher than the low point on the top of the fence.
Do not place silt fence ditch checks in channels with shallow soils underlain by rock. If the check is not anchored sufficiently, it will wash out.

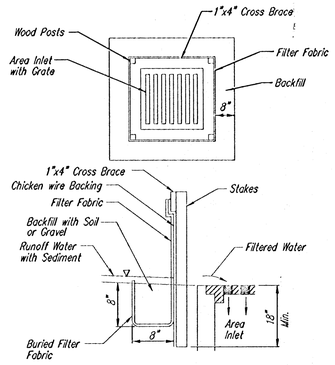
Inspection and Maintenance:

Silt fence ditch checks should be inspected every 7 days and within 24 hours of a rainfall of 1/2" or more. The following is a list of questions that should be addressed during each inspection:

Does water flow around the ditch check?
Does water flow under the ditch check?
Does the silt fence sag excessively?
Has the silt fence torn or become detached from the posts?
Does sediment need to be removed from behind the ditch check?



ANCHOR TRENCH DETAIL



SILT FENCE BARRIERS FOR AREA INLETS
(INLET PROTECTION)

Material Specification:

Silt fence fabric should conform to the AASHTO M288 96 silt fence specification.
The wire or polymeric mesh backing used to help support the silt fence fabric should conform to the AASHTO M288 96 silt fence specification.
The posts used to support the silt fence fabric should be a hardwood material with the following minimum dimensions: 2" square (nominal) by 4' long.
The material used to frame the tops of the posts should be 1" by 4" boards.
Silt fence fabric and support backing should be attached to the wooden posts and frame with staples, wire, zip ties, or nails.

Placement:

Place a silt fence drop inlet barrier in a location where it is unlikely to be overtopped.
Water should flow through silt fence, not over it. Silt fence barriers for area inlets often fail when repeatedly overtopped.
When used as a barrier for area inlets, silt fence fabric and posts must be supported at the top by a wooden frame.
When a silt fence barrier for area inlets is located near an inlet that has steep approach slopes, the storage capacity behind the barrier is drastically reduced. Timely removal of sediment must occur for a barrier to operate properly in this location.

Proper installation method:

Excavate a trench around the perimeter of the area inlet that is at least 8" deep by 8" wide.
Drive posts to a depth of at least 18" around the perimeter of the area inlet.
The distance between posts should be 4' or less. If the distance between two adjacent corner posts is more than 4', add another post(s) between them.
Connect the tops of all the posts with a wooden frame made of 1" by 4" boards. Use nails or screws for fastening.
Attach the wire or polymeric-mesh backing to the outside of the post/frame structure with staples, wire, zip ties, or nails.
Roll out a continuous length of silt fence fabric long enough to wrap around the perimeter of the area inlet. Add more length for overlapping the fabric joint. Place the edge of the fabric in the trench, starting at the outside edge of the trench. Line all three sides of the trench with the fabric. Backfill over the fabric in the trench with the excavated soil and compact. After filling the trench, approximately 24" to 36" of silt fence fabric should remain exposed.
Attach the silt fence to the outside of the post/frame structure with staples, wire, zip ties, or nails. The joint should be overlopped to the next post.

Note: When a silt fence barrier for area inlet is placed in a shallow median ditch, make sure that the top of the barrier is not higher than the paved road. In this configuration, water may spread onto the roadway causing a hazardous condition.

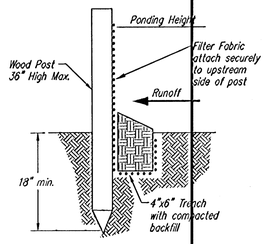
List of common placement/installation mistakes to avoid:

Water should flow through a silt fence barrier for area inlet-not over it. Place a silt fence barrier for area inlet in a location where it is unlikely to be overtopped. Silt fence barrier for area inlets often fail when repeatedly overtopped.
Do not place posts on the outside of the silt fence barrier for area inlet. In this configuration, the force of the water is not resisted by the posts, but only by the staples (wire, zip ties, nails, etc.). The silt fence will rip and fail.
Do not install silt fence barrier for area inlets without framing the top of the posts. The corner posts around area inlets are stressed in two directions whereas a normal silt fence is only stressed in one direction. This added stress requires more support.

Inspection and Maintenance:

Silt fence barrier for area inlets should be inspected every 7 ddys and within 24 hours of a rainfall of 1/2" or more. The following is a list of questions that should be addressed during each inspection:

Does water flow under the silt fence?
Does the silt fence sag excessively?
Has the silt fence torn or become detached from the posts?
Does sediment need to be removed from behind the area inlet barrier?



SILT FENCE BARRIERS

Material Specification:

Silt fence fabric should conform to the AASHTO M288 96 silt fence specification.
The posts used to support the silt fence fabric should be a hardwood material with the following minimum dimensions: 2" square (nominal) by 4' long.
Silt fence fabric should be attached to the wooden posts with staples, wire, zip ties, or nails.

Placement:

A slope barrier should be used at the toe of a slope when a ditch does not exist. The slope barrier should be placed on nearly level ground 5' to 10' away from the toe of a slope. The barrier is placed away from the toe of the slope to provide adequate storage for settling out sediment.
When practicable, silt fence slope barriers should be placed along contours to avoid a concentration of flow.
Silt fence slope barriers can also be placed along right-of-way fence lines to keep sediment from crossing onto adjacent property. When placed in this manner, the slope barrier will not likely follow contours.

Proper installation method:

Excavate a trench the length of the planned slope barrier that is 6" deep by 4" wide.
Make sure that the trench is excavated along a single contour. When practicable, slope barriers should be placed along contours to avoid a concentration of flow. Place the soil on the upslope side of the trench for later use.
Roll out a continuous length of silt fence fabric on the downslope side of the trench.
Place the edge of the fabric in the trench starting at the top upslope edge. Line all three sides of the trench with the fabric. Backfill over the fabric in the trench with the excavated soil and compact. After filling the trench, approximately 24" to 36" of silt-fence fabric should remain exposed.
Lay the exposed silt fence upslope of the trench to clear an area for driving in the posts.
Just downslope of the trench, drive posts into the ground to a depth of at least 18".
Place posts no more than 4' apart.
Attach the silt fence to the anchored post with staples wire, zip ties, or nails.

List of common placement/installation mistakes to avoid:

When practicable, do not place silt fence slope barriers across contours. Slope barriers should be placed along contours to avoid a concentration of flow. When the flow concentrates, it overtops the barrier and the silt fence slope barrier quickly deteriorates.
Do not place silt-fence posts on the upslope side of the silt fence fabric. In this configuration, the force of the water is not restricted by the posts, but only by the staples (wire, zip ties, nails, etc.). The silt fence will rip and fail.
Do not place silt fence slope barriers in areas with shallow soils underlain by rock. If the barrier is not sufficiently anchored, it will wash out.
Silt fence slope barriers must be dug into the ground-silt fence at ground level does not work because water will flow underneath.

Inspection and Maintenance:

Silt fence slope barriers should be inspected every 7 days and within 24 hours of a rainfall of 1/2" or more. The following is a list of questions that should be addressed during each inspection:

Are there any points along the slope barrier where water is concentrating?
Does water flow under the slope barrier?
Do the silt fences sag excessively?
Has the silt fence torn or become detached from the posts?
Does sediment need to be removed from behind the slope barrier?

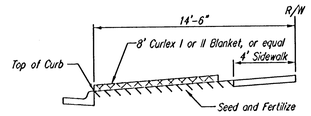
CITY OF WICHITA

SOIL EROSION BMPs

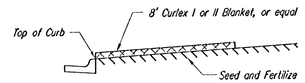
SILT FENCE DITCH CHECK AND BARRIER DETAIL

JIM ARMOUR, P.E.
CITY ENGINEER

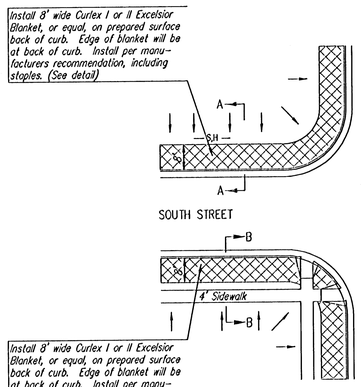
PROJECT NUMBER	OCA NO.
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DATE: MAR 2007	SHEET 19 OF 22



SECTION B-B



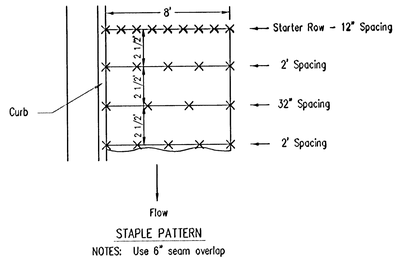
SECTION A-A



NOTES:

1. EXCELSIOR MAT TO BE INSTALLED WHEN SOD IS NOT SPECIFIED ON PROJECT.
2. EXCELSIOR BLANKET TO BE INSTALLED OVER SEED AND FERTILIZER, AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
3. AFTER INSTALLATION OF EXCELSIOR BLANKET, AT LOCATIONS WHERE CONCENTRATED FLOW CARRIES SEDIMENT OVER THE CURB AND INTO THE GUTTER, SUPPLEMENTAL EROSION CONTROL DEVICES WILL BE INSTALLED BY THE CONTRACTOR AS NEEDED, TO FIX THE PROBLEM.

BACK OF CURB PROTECTION DETAIL



STAPLE PATTERN

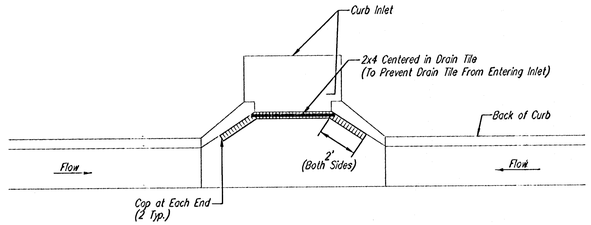
NOTES: Use 6" seam overlop



11 ga. Wire

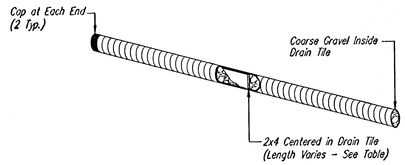
STAPLE

DETAILS FOR CURLEX I OR II BLANKETS



Note:
Place 4" perforated PVC pipe, filled with 1/2"-1" dia. gravel, in front of curb inlet as shown.

2X4 LENGTH	INLET TYPE	INLET OPENING
5'-6"	1-A	5'-0"
10'-6"	1-A	10'-0"
15'-6"	1-A	15'-0"



CURB INLET PROTECTION

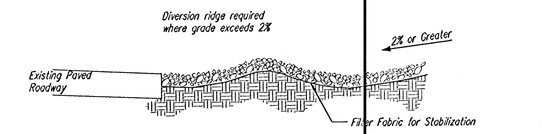
4" PERFORATED PIPE W/ GRAVEL

EROSION CONTROL QUANTITIES:

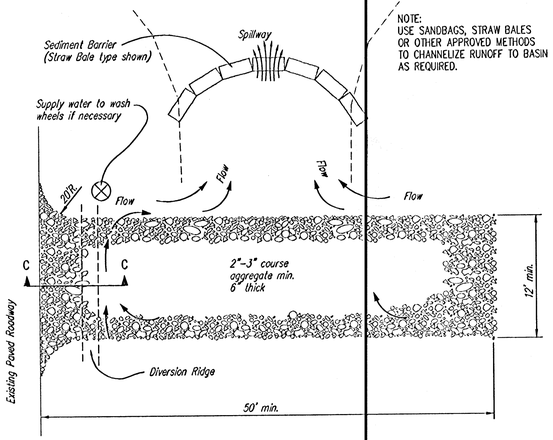
EROSION CONTROL MEASURES TO BE INSTALLED:

4,938 L.F. SILT FENCE
53 EA. DITCH CHECKS
10,235 S.Y. EROSION CONTROL MAT
4,555 L.F. CUT-OFF TRENCH
TEMPORARY DITCHING
1 EA. STABILIZED CONSTRUCTION ENTRANCE

* ALL EXISTING BMPs INCLUDING CONSTRUCTION ENTRANCE, SEDIMENT BARRIERS, SILT FENCE, CUT-OFF TRENCH, AND EROSION CONTROL MAT SHALL BE MAINTAINED AND REPAIRED IF NECESSARY. MAINTENANCE, REPLACEMENT, OR REMOVAL OF EROSION CONTROL MEASURES TO BE PAID FOR BY L.S. BID ITEM "SITE CLEARING & RESTORATION"



SECTION C-C



STABILIZED CONSTRUCTION ENTRANCE

NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN, AS SHOWN ABOVE.
4. DRIVE ENTRANCES ONTO RESIDENTIAL LOTS WILL NOT BE REQUIRED TO HAVE THE SEDIMENT BARRIER SHOWN, BUT WHEEL WASHING MAY BE REQUIRED IF STABILIZED ENTRANCE IS NOT SUFFICIENT TO KEEP MUD FROM BEING TRACKED ONTO ADJACENT STREET. ENTRANCE SHALL EXTEND FROM BACK OF CURB TO DWELLING.

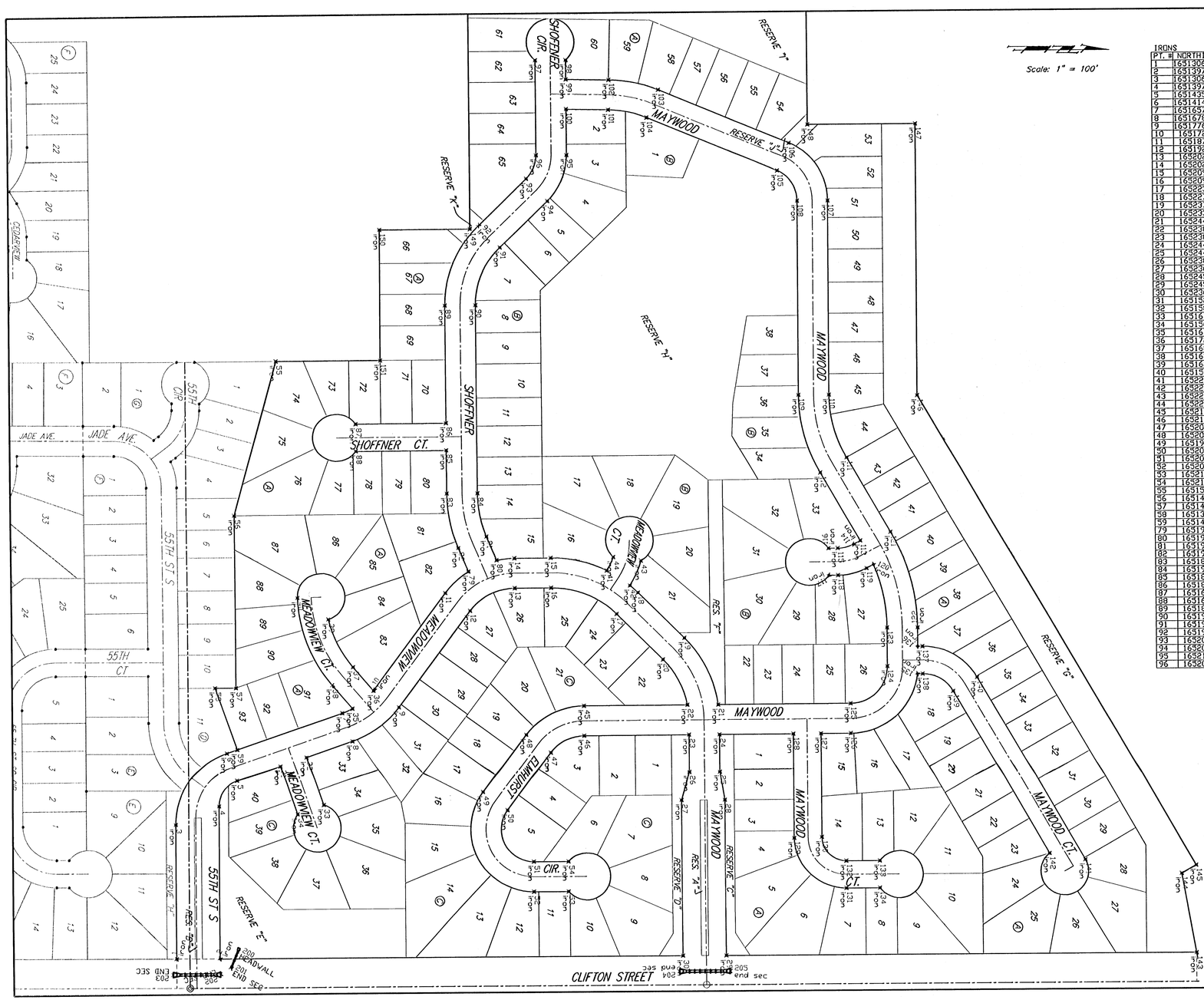
CITY OF WICHITA

SOIL EROSION BMPs

BACK OF CURB PROT.
CURB INLET PROTE.
AND
CONSTRUCTION ENT.

JIM ARMOUR, P.E.
CITY ENGINEER

PROJECT NUMBER	OCA NO.
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Scale: 1" = 100'

IRONS

PT. #	NORTHING	EASTING	DESC
1	1651306.52	1631697.04	iron
2	1651397.52	1631697.19	iron
3	1651306.51	1631417.02	iron
4	1651397.51	1631379.01	iron
5	1651435.50	1631325.54	iron
6	1651414.45	1631265.10	iron
7	1651657.14	1631180.54	iron
8	1651678.20	1631240.98	iron
9	1651776.22	1631169.00	iron
10	1651754.86	1631139.82	iron
11	1651875.98	1630928.07	iron
12	1651926.95	1630966.25	iron
13	1652021.29	1630918.65	iron
14	1652021.10	1630854.55	iron
15	1652097.30	1630834.42	iron
16	1652097.49	1630918.42	iron
17	1652234.54	1630974.95	iron
18	1652279.79	1630929.69	iron
19	1652376.23	1631026.13	iron
20	1652330.98	1631071.39	iron
21	1652446.11	1631167.38	iron
22	1652381.37	1631167.57	iron
23	1652384.40	1631231.56	iron
24	1652448.40	1631231.37	iron
25	1652448.64	1631312.12	iron
26	1652384.64	1631313.32	iron
27	1652367.82	1631372.35	iron
28	1652458.82	1631372.09	iron
29	1652459.80	1631697.16	iron
30	1652368.80	1631697.16	iron
31	1651926.64	1631293.78	iron
32	1651581.41	1631274.70	iron
33	1651617.32	1631377.77	iron
34	1651562.55	1631396.85	iron
35	1651678.70	1631170.98	iron
36	1651722.89	1631133.41	iron
37	1651680.57	1631083.63	iron
38	1651636.38	1631121.20	iron
39	1651629.45	1630982.60	iron
40	1651565.10	1630936.28	iron
41	1652214.73	1630882.43	iron
42	1652263.11	1630914.42	iron
43	1652286.58	1630861.65	iron
44	1652228.55	1630853.61	iron
45	1652164.25	1631168.22	iron
46	1652164.45	1631232.22	iron
47	1652094.09	1631267.72	iron
48	1652042.73	1631223.54	iron
49	1651981.15	1631362.73	iron
50	1652002.52	1631390.91	iron
51	1652037.09	1631499.48	iron
52	1652057.09	1631563.48	iron
53	1652129.88	1631563.48	iron
54	1652129.88	1631499.48	iron
55	1651524.37	1630434.85	iron
56	1651434.36	1630760.26	iron
57	1651434.50	1631125.74	iron
58	1651390.61	1631125.76	iron
59	1651436.48	1631257.42	iron
79	1651934.36	1630888.83	iron
80	1651983.63	1630858.67	iron
81	1651963.03	1630808.16	iron
82	1651903.77	1630932.33	iron
83	1651881.05	1630717.33	iron
84	1651945.05	1630717.14	iron
85	1651880.77	1630625.60	iron
86	1651880.60	1630567.60	iron
87	1651691.06	1630568.17	iron
88	1651691.23	1630626.17	iron
89	1651879.85	1630320.55	iron
90	1651943.85	1630320.36	iron
91	1651995.98	1630198.21	iron
92	1651951.83	1630151.87	iron
93	1652052.25	1630056.22	iron
94	1652036.39	1630102.56	iron
95	1652137.35	1630007.00	iron
96	1652073.35	1630006.99	iron

IRONS (CONT.)

PT. #	NORTHING	EASTING	DESC
97	1652073.37	1629803.66	iron
98	1652137.37	1629803.66	iron
99	1652137.37	1629844.75	iron
100	1652137.36	1629908.76	iron
101	1652229.85	1629910.65	iron
102	1652327.21	1629846.67	iron
103	1652331.10	1629869.90	iron
104	1652306.16	1629927.84	iron
105	1652379.20	1630043.38	iron
106	1652604.14	1629984.44	iron
107	1652684.70	1630106.00	iron
108	1652620.70	1630106.00	iron
109	1652620.71	1630513.77	iron
110	1652684.71	1630512.77	iron
111	1652720.63	1630646.79	iron
112	1652665.21	1630678.79	iron
113	1652747.69	1630821.62	iron
114	1652733.01	1630829.38	iron
115	1652700.05	1630837.61	iron
116	1652680.85	1630837.67	iron
117	1652681.08	1630895.67	iron
118	1652700.22	1630895.61	iron
119	1652760.11	1630880.66	iron
120	1652774.46	1630873.08	iron
121	1652811.19	1630803.60	iron
122	1652865.74	1631007.12	iron
123	1652801.74	1631007.12	iron
124	1652801.74	1631088.54	iron
125	1652723.97	1631166.54	iron
126	1652724.17	1631230.54	iron
127	1652661.39	1631230.73	iron
128	1652603.40	1631230.90	iron
129	1652604.06	1631452.63	iron
130	1652662.06	1631450.96	iron
131	1652713.06	1631559.81	iron
132	1652713.06	1631501.81	iron
133	1652783.46	1631501.80	iron
134	1652783.47	1631559.80	iron
135	1652864.79	1631104.91	iron
136	1652865.74	1631046.91	iron
137	1652875.74	1631046.91	iron
138	1652875.74	1631104.91	iron
139	1652939.46	1631141.69	iron
140	1652989.68	1631112.68	iron
141	1653214.54	1631508.05	iron
142	1653139.63	1631488.32	iron
143	1653446.93	1631697.13	iron
144	1653417.01	1631532.71	iron
145	1653447.35	1631518.21	iron
146	1652869.71	1630515.01	iron
147	1652869.69	1629945.01	iron
148	1652643.69	1629945.02	iron
149	1651933.58	1630159.31	iron
150	1651743.63	1630159.56	iron
151	1651743.73	1630434.56	iron

SVS

PT. #	NORTHING	EASTING	DESC
200	1651435.02	1631680.86	HEADWALL
201	1651420.39	1631715.93	END SEC
202	1651398.44	1631747.10	END SEC
203	1651598.44	1631729.20	END SEC
204	1652360.90	1631729.17	end sec
205	1652467.90	1631729.16	end sec

Baughman

MEADOWLAKE BEACH ADDITION

COORDINATE SHEET

STORM WATER DRAIN IMPROVEMENTS

Baughman Company, P.A. 315 Ella St. Wichita, KS 67211 P 316.263.7771 F 316.262.0149
ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE

PROJECT NUMBER 46884302

REVISIONS

DESIGN ATD | DRAWN TMS | APPROVED | DATE 03/07 | SCALE Noted

SHEET **21** OF **22**

MeadowlakeBeach\SWD\coords 06-10-E676

MEADOWLAKE BEACH ADDITION

WICHITA, SEDGWICK COUNTY, KANSAS

MINIMUM BUILDING PAD ELEVATIONS FOR LOWEST OPENING TO THE STRUCTURES		
LOT	BLOCK	ELEVATION NGVD29
1-23	A	1265.0
1-10	B	1265.0
11-13	B	1265.2
14-16, 19-22, 24-32, 34-38	B	1265.5
12, 18, 23, 33	B	1266.0
1-3, 6, 14, 17-20, 24, 32, 35-40	C	1265.0
4, 5, 7, 22, 23, 27, 29, 33, 34	C	1265.5
8, 28	C	1266.0
9-13, 15, 16, 21, 25, 26, 30, 31	C	1264.5

BENCHMARK:
CITY OF WICHITA BENCHMARK DISC, SE CORNER OF CLIFTON AND 55TH ST. S., SOUTHWEST CORNER OF FORD, ON TOP OF HUBGUARD AT THE WEST END.
ELEV. = 1263.29 NGVD29

DETAIL "A"
(NO SCALE)

DETAIL "B"
(NO SCALE)

DETAIL "C"
(NO SCALE)

= #4 REBAR W/ "BAUGHMAN" CAP (SET)
= 3/4" IRON PIPE (FOUND)
= BOLT W/ 3" DIA. HEAD (FOUND)
□ = 3/16" STONE W/ 1/2" IRON PIPE ON NORTH SIDE (FOUND)
△ = STONE (FOUND)

(M) = MEASURED
(P) = PLATED
(D) = DESCRIBED
(C) = CALCULATED
(C-P) = CALCULATED PER PLATTED INFO.
(C-D) = CALCULATED PER DESCRIBED INFO.

NOTE:
ALL LOTS WITHIN MEADOWLAKE BEACH ADDITION SHALL HAVE A 5 FOOT SIDE YARD BUILDING SETBACK.

NOTE:
GRANT OF TEMPORARY EASEMENT, (UNDEFINED WIDTH, WORKABLE, AND NON-EXCLUSIVE), FOR EXISTING ACCESS AND EXISTING UTILITIES
(DOC #/FILM-PG: 28770378)

NOTE:
THAT PART OF THE GAS SERVICE COMPANY RIGHT OF WAY AGREEMENT, (FILM 575, PAGE 212), LYING WITHIN THIS PLAT IS IN THE PROCESS OF BEING RELEASED THIS EIGHTH DAY OF FEBRUARY, 2007.

PAGE 2 OF 2

Baughman Company, P.A.
315 Ella St. Wichita, KS 67211 P 316.262.7221 F 316.262.0149
ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE

P:\PLAT\MEADOWLAKE BEACH ADDITION\DWG\MEADOWLAKEBEACHFINAL.DWG MOC

38-13-01 on