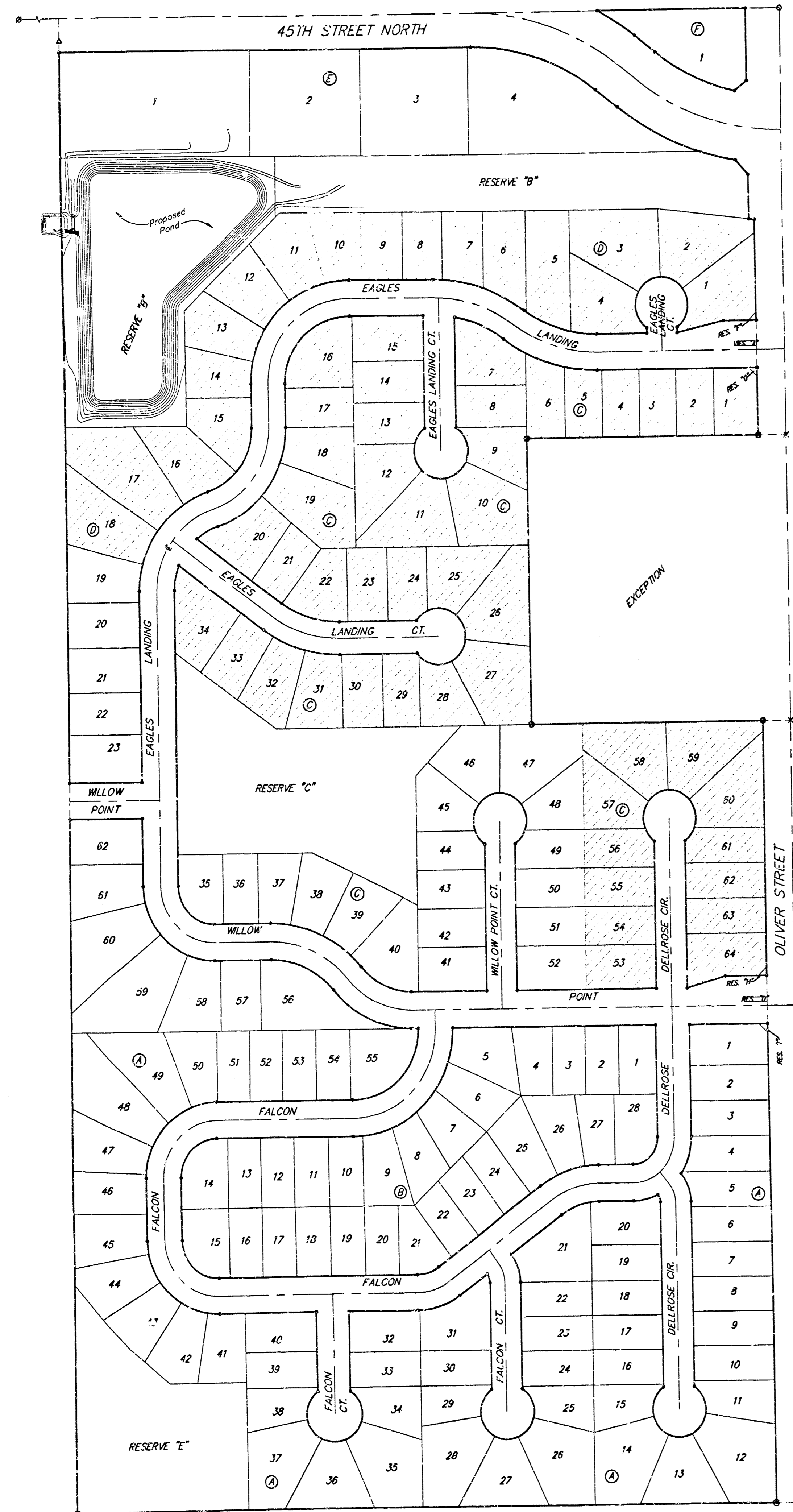


STORM WATER DRAIN to serve EAGLES LANDING AT NORTH OLIVER 2ND

CITY OF WICHITA, KANSAS

Michael E. Lindebak, P.E. City Engineer

Project Number
1186 PPS (607861)



Scale: 1" = 150'

Sheet Index

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Pond Plan	2
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Benchmark

Oliver and 45th St. N. - Top of Brass Plate on SW Corner of R.C.B.C. East of Intersection.
ELEV. = 1398.88 NGVD
(211.48 City Datum)

60d Nail In H.L.P., 33' S. of the NW Corner of Gov't. Lot 1 in the NE 1/4 of Sec. 26, TWP. 26-S, R-1-E of the 6th P.M.
Elev. = 1377.19 NGVD
(189.79 City Datum)

Benefit District:

GENERAL NOTES:

- Contractor will be required to provide notice to utility companies a minimum of twenty-four (24) hours prior to any excavation, as follows:

Kansas One-Call	687-2470
Cox Communications, Inc.	262-0661
Kansas Gas Service Company	383-8600
Westar Energy	383-8600
Peoples Gas Company	342-8350
Southwestern Bell Telephone Company	1-571-2611
City of Wichita Water Dept.	269-4508
City of Wichita Traffic Engineering	269-4446

The Contractor must notify the following in case of an emergency:
- Underground utility service lines and overhead utility pole lines 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.
- 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 advance notice prior to start of construction.
- 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.
- All areas disturbed by construction at the proposed pond shall be seeded, fertilized, and mulched as shown on the Pond Plan.
- Contractor shall verify earthwork quantities prior to bidding project. Excess material shall be stockpiled in a location to be determined by the Engineer.

BOOKED
5-1-02
MCS
C-709

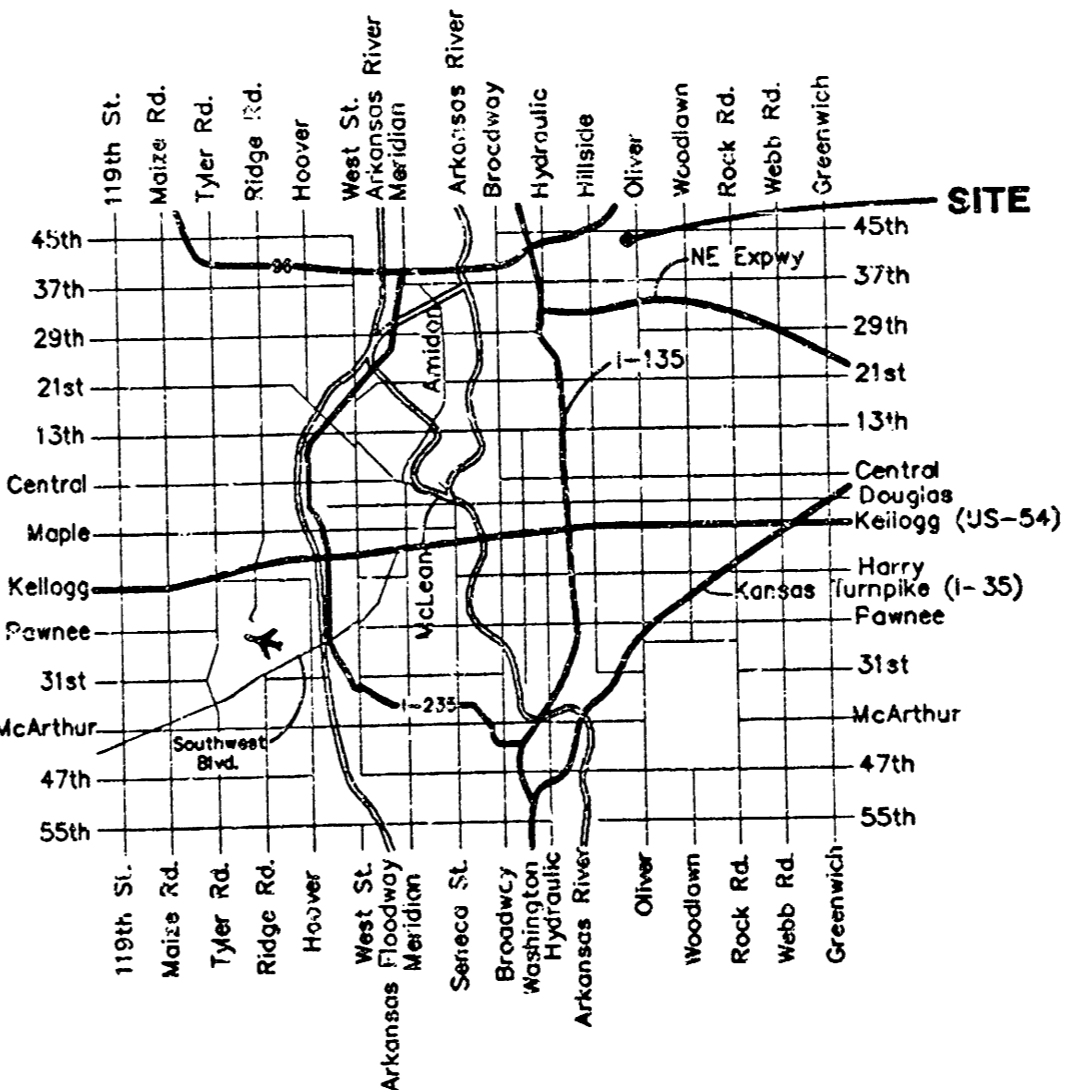
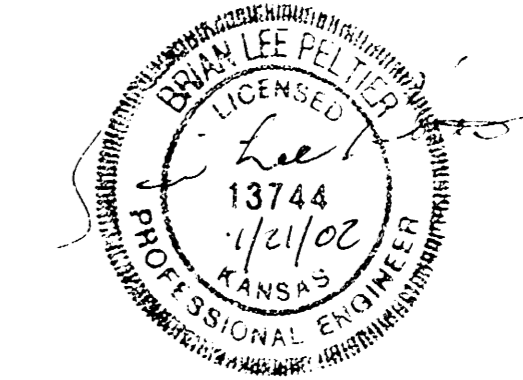
APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

Storm Water Drain *Julian Kollerian 1-22-02*

NOTE TO CONTRACTORS

Inspection and testing for this project is to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Said inspection to be in accordance with the City of Wichita standard construction engineering practices and certified by a Licensed Professional Engineer. No work shall be performed in dedicated easements or public right-of-way by the Contractor without such inspection or shall any work be commenced without written authorization by the City Engineer. All Construction and Materials shall comply with the City of Wichita Specifications and Standards (on file and available in the City Engineer's Office).

As Built 3/02 KK



Vicinity Map

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

BENCHMARK:
 OLIVER AND 45TH ST. N. - TOP OF BRASS PLATE ON
 SW CORNER OF R.C.B.C. EAST OF INTERSECTION.
 ELEV. = 1398.88 NGVD (211.48 CITY DATUM)

60d NAIL IN H.L.P., 33' S. OF THE NW CORNER OF GOVT. LOT 1
 IN THE NE1/4 OF SEC. 26, TWP. 26-S, R-1-E OF THE 6TH P.M.
 ELEV. = 1377.19 NGVD (189.79 CITY DATUM)

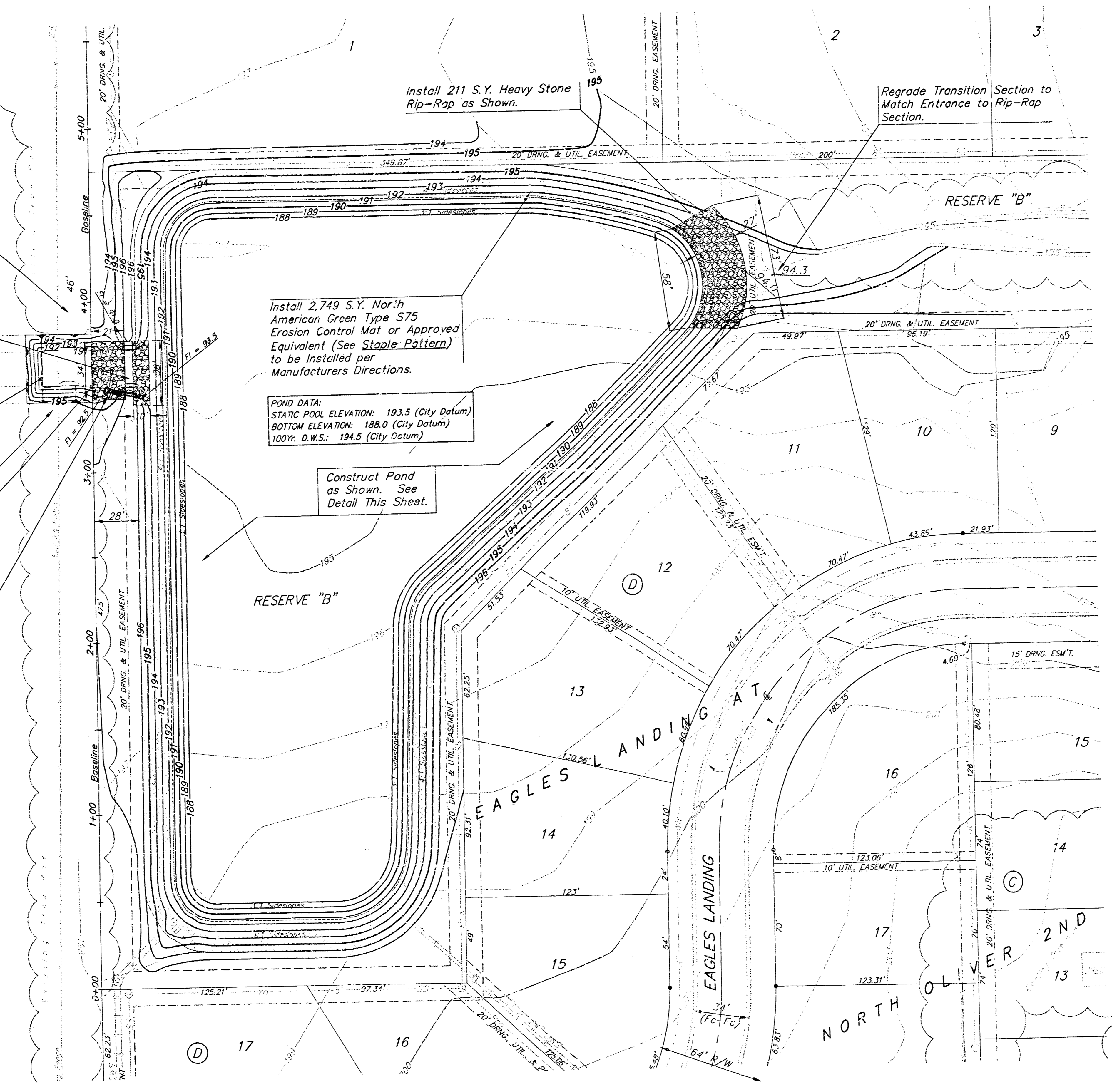
Do Not Remove Trees
 Sta. 3+47 to Sta. 3+77, 23.5' Rt.
 Construct 30.0 L.F. Concrete Weir
 with Toe Walls. See Detail, This
 Sheet. Cost to be Included in "Site
 Clearing & Rest."

Contractor to grade
 transition ditch area
 from bottom of heavy
 stone rip-rap to existing
 grade 40' west.

Do Not Remove Trees
 Install 78 S.Y. Heavy Stone
 Rip-Rap on West Side &
 42 S.Y. Heavy Stone
 Rip-Rap on the east sid.
 of Weir. (120 S.Y. Total)
 per City Specs.

Install 24.3 L.F. 18" RCP
 as Shown.
 Flow In = 93.5
 Flow Out = 92.5

Baseline = West
 Line of the Plot.
 Sta. 0+00 = NW Cor.
 Lot 17, Block D



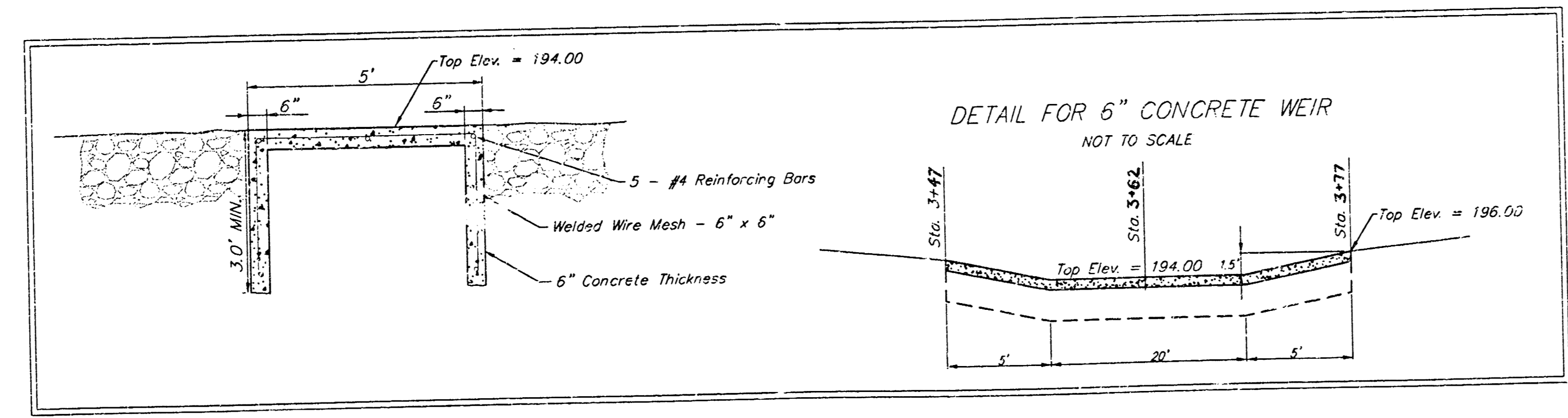
Install 2,749 S.Y. North
 American Green Type S75
 Erosion Control Mat or Approved
 Equivalent (See Staple Pattern)
 to be Installed per
 Manufacturers Directions.

POND DATA:
 STATIC POOL ELEVATION: 193.5 (City Datum)
 BOTTOM ELEVATION: 188.0 (City Datum)
 100% D.W.S.: 194.5 (City Datum)

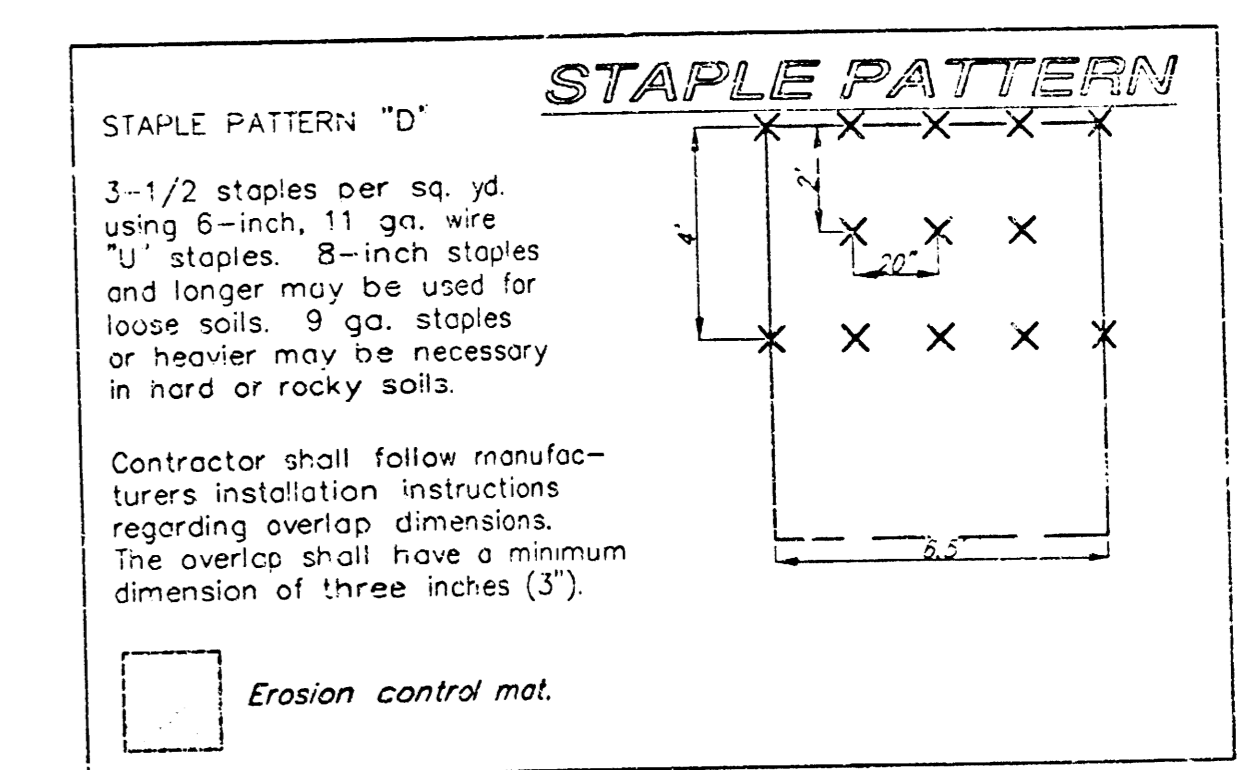
Construct Pond
 as Shown. See
 Detail This Sheet.

Install 211 S.Y. Heavy Stone
 Rip-Rap as Shown.

Regrade Transition Section to
 Match Entrance to Rip-Rap
 Section.

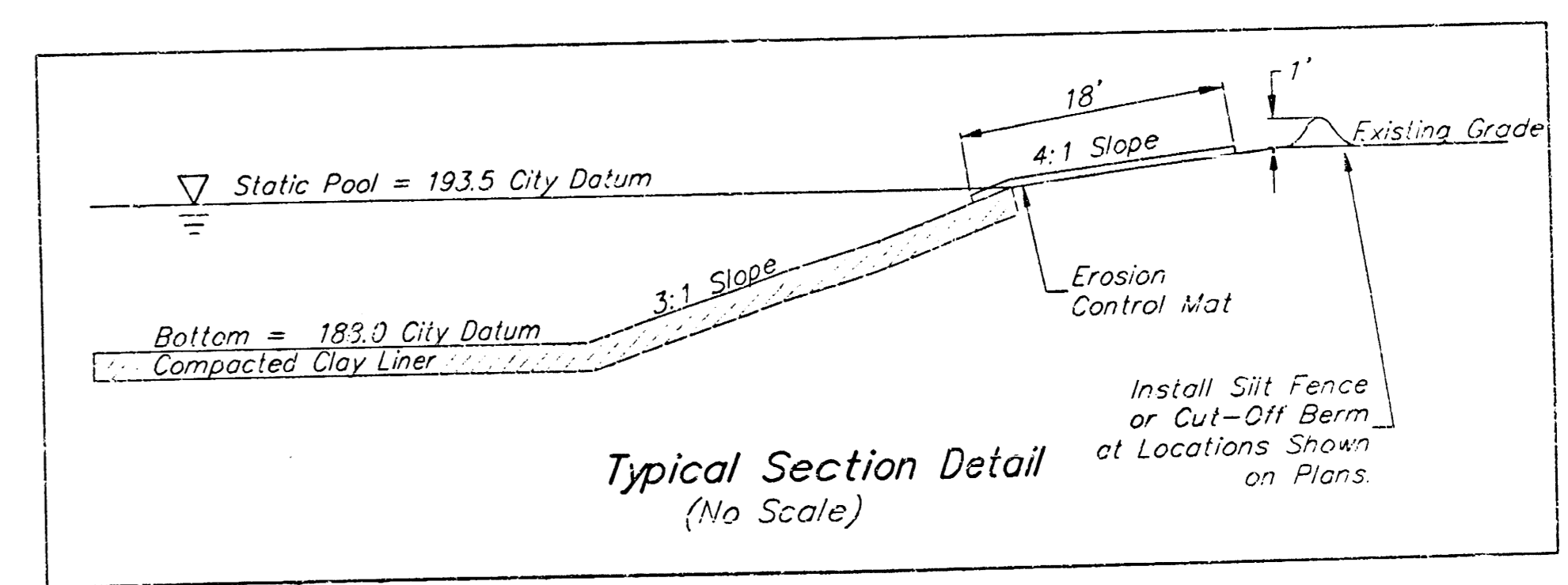


SCALE: 1" = 40'
 • = Iron



EARTHWORK SUMMARY:
 24,870 C.Y. EXCAVATION
 906 C.Y. FILL
 (NOTE: THIS QUANTITY IS TO ACHIEVE FINAL SHAPE OF POND. IT DOES NOT INCLUDE THE OVER-EXCAVATION OF 1' TO PLACE THE CLAY LINER.)

- NOTES:**
- 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 27. THE COMPACTION AND P.I. SHALL BE VERIFIED DURING CONSTRUCTION BY THE CONTRACTOR.
 - CONTRACTOR RESPONSIBLE FOR SECURING EFFECTIVE COMPACTED CLAY LAYER ZONE AT A MINIMUM OF 12" THICK INCLUDING ANY NECESSARY OVER EXCAVATION OF BOTTOM AND SIDE SLOPES TO ENSURE A NON-PENETRABLE LINER.
 - ANY EXCESS EXCAVATION SHALL BE STORED ON-SITE AT LOCATIONS TO BE DETERMINED BY THE ENGINEER.
 - ALL OF RESERVE "B" ABOVE THE STATIC WATER SURFACE SHALL BE SEEDED AND MULCHED AS FOLLOWS: (PERMANENT SEEDING)
 SEED -- KANSAS PREMIUM FESCUE BLEND; 8#/1000 SQ. FT.
 MULCH -- 2 TONS PRAIRIE HAY / ACRE
 FERTILIZER -- 12-24-12 RATIO AT 350 LBS./AC.
 ALL OTHER DISTURBED AREAS NOT COVERED BY PAVEMENT ARE TO BE SEEDED AND MULCHED AS FOLLOWS: (TEMPORARY SEEDING)
 SEED -- RYE GRASS (PLS)--3#/1000 SQ. FT. AND
 KANSAS PREMIUM FESCUE BLEND; 3#/1000 SQ. FT.
 MULCH -- 2 TONS PRAIRIE HAY / ACRE
 FERTILIZER -- 12-24-12 RATIO AT 350 LBS./AC.
 - BAUGHMAN COMPANY WILL PROVIDE STAKING INFORMATION AT THE TIME OF CONSTRUCTION
 - INSTALL EROSION CONTROL MAT FROM 2' BELOW THE WATER SURFACE TO 18' UP THE BANK.



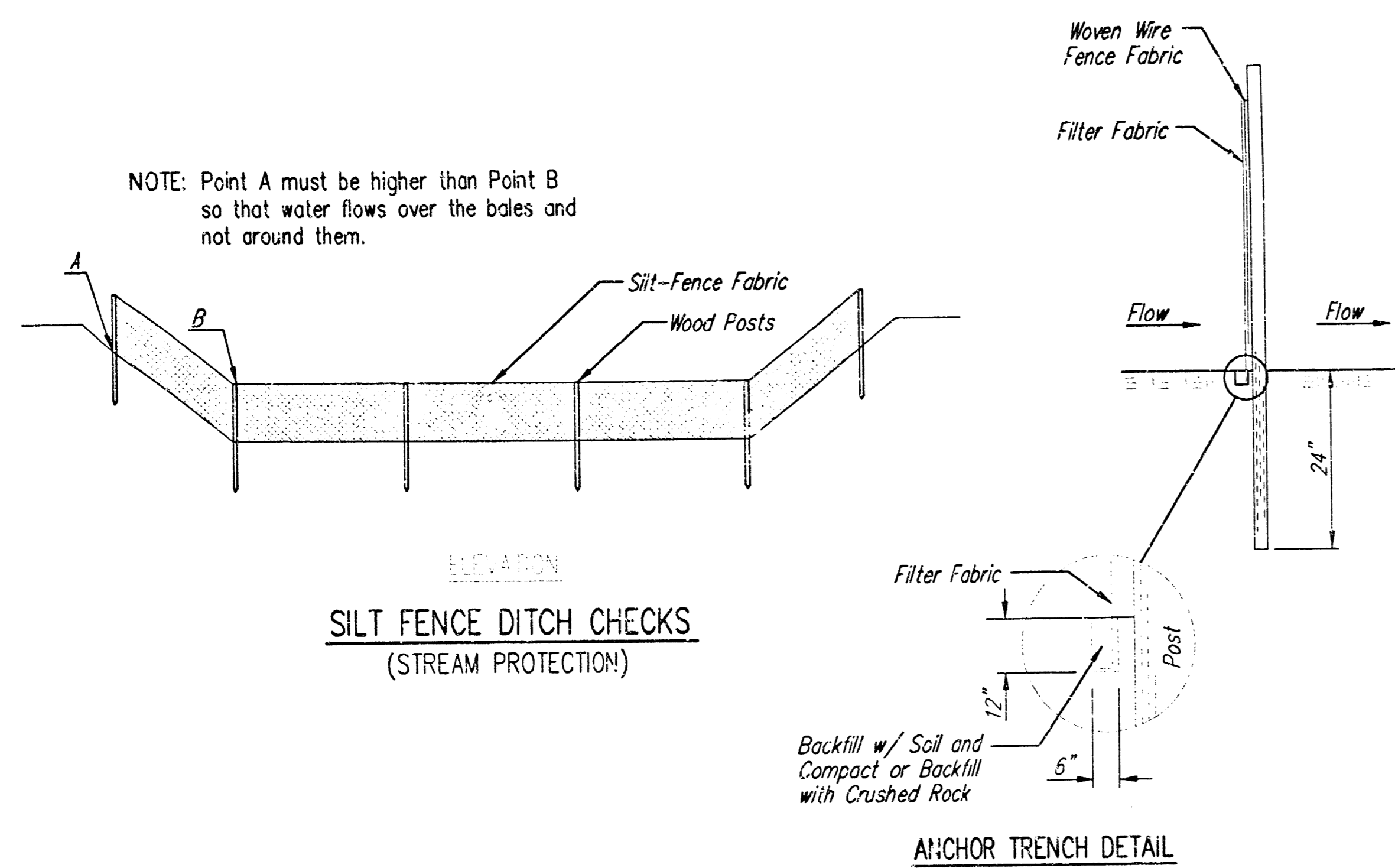
As Built 3/02 KJ
 Grades As Per P1-1

EAGLES LANDING AT NORTH OLIVER 2ND
POND PLAN
 WICHITA, SEDGWICK COUNTY, KANSAS

BAUGHMAN COMPANY P.A.
 ENGINEERING, SURVEYING, & PLANNING
 316-262-7511 • 316-262-7512 • WICHITA, KANSAS 67211

PROJECT NUMBER: 1185 PPS(07881)
 SHEET 2 OF 9

DESIGN: BLP/AEG DRAWN: JAK APPROVED: DATE: 1/18/02 SCALE: NOTED



SILT FENCE DITCH CHECKS
(STREAM PROTECTION)

ANCHOR TRENCH DETAIL

Material Specification:

Silt fence fabric should conform to the AASHTO M288 96 silt fence specification. The posts used to support the silt fence 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. 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 Check Ditch grade (%)	Spacing Check Spacing (feet)
0.5	200
1.0	200
2.0	100
3.0	65
4.0	50
5.0	40
6.0	30

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:

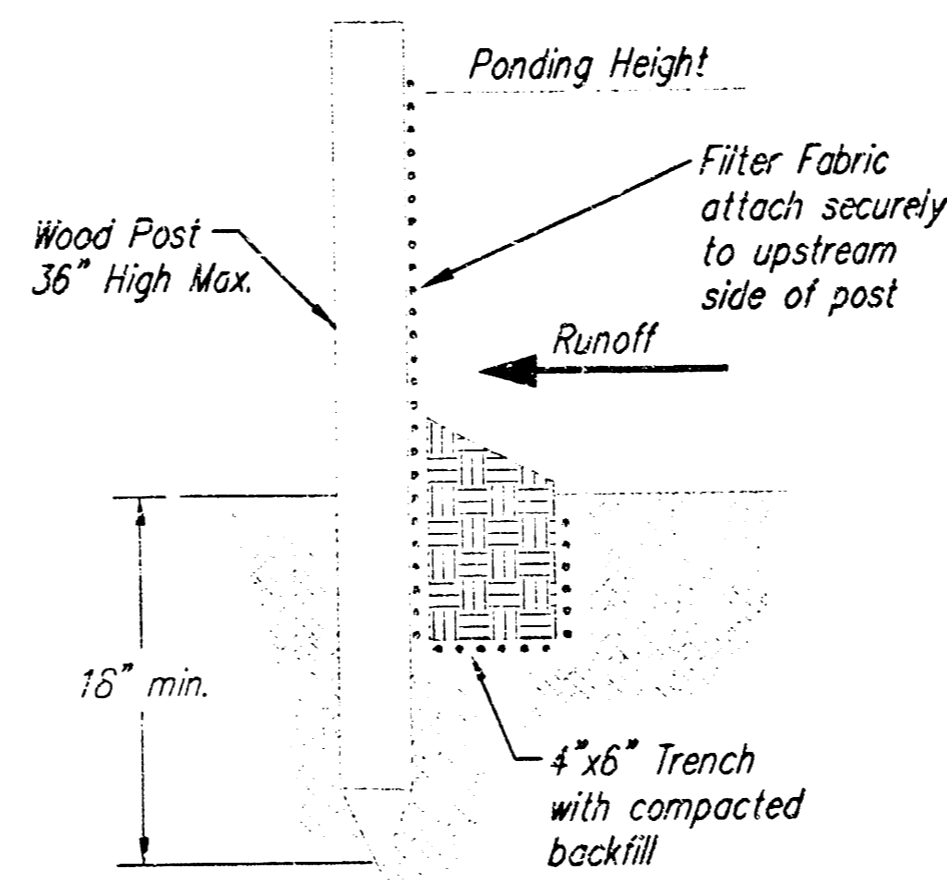
- Does water flow around the ditch check?
- Does water flow under the ditch check?
- Does the silt fence sag excessively?
- Has the silt fence torn or become detached from the posts?
- Does sediment need to be removed from behind the ditch check?

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 upslope 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.



SILT FENCE BARRIERS

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 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 setting 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.

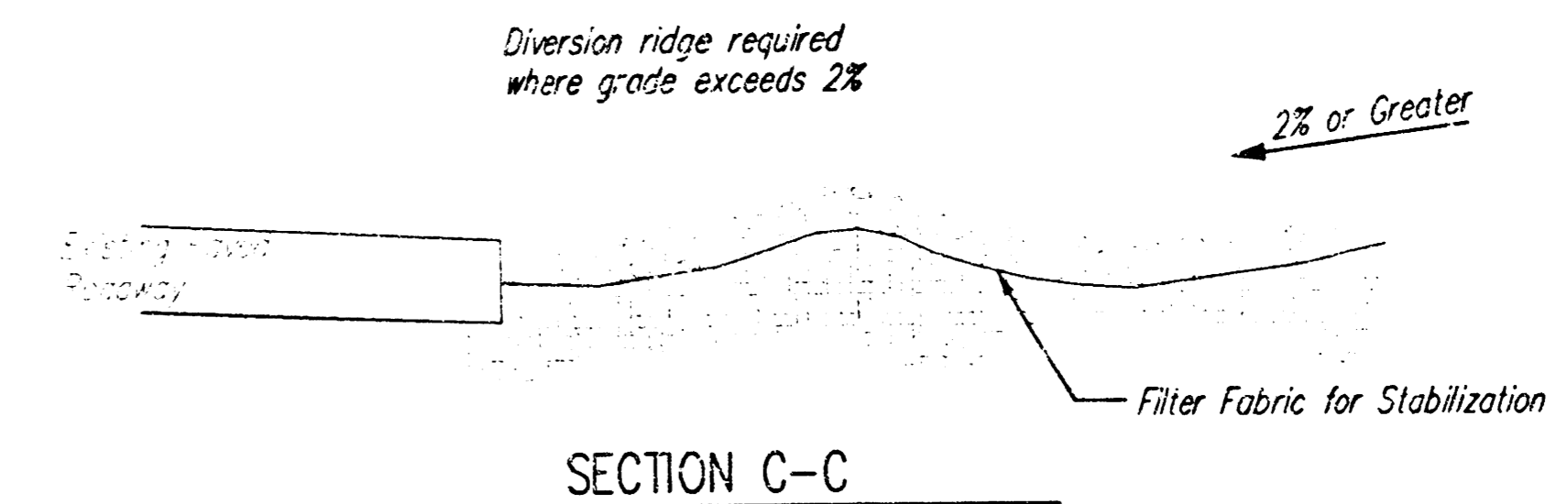
List of common placement/installation mistakes to avoid:

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.

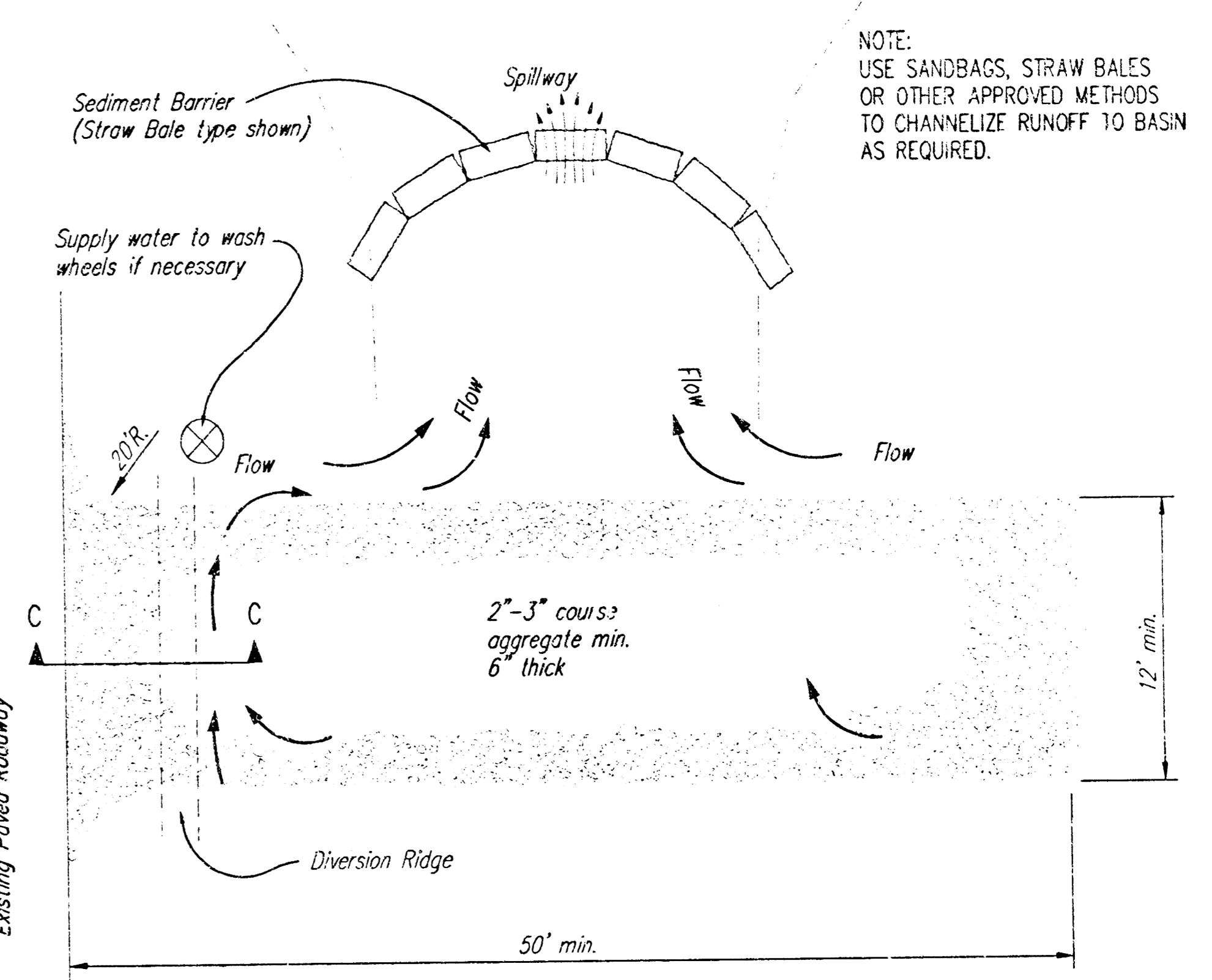
Inspection and Maintenance:

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?



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

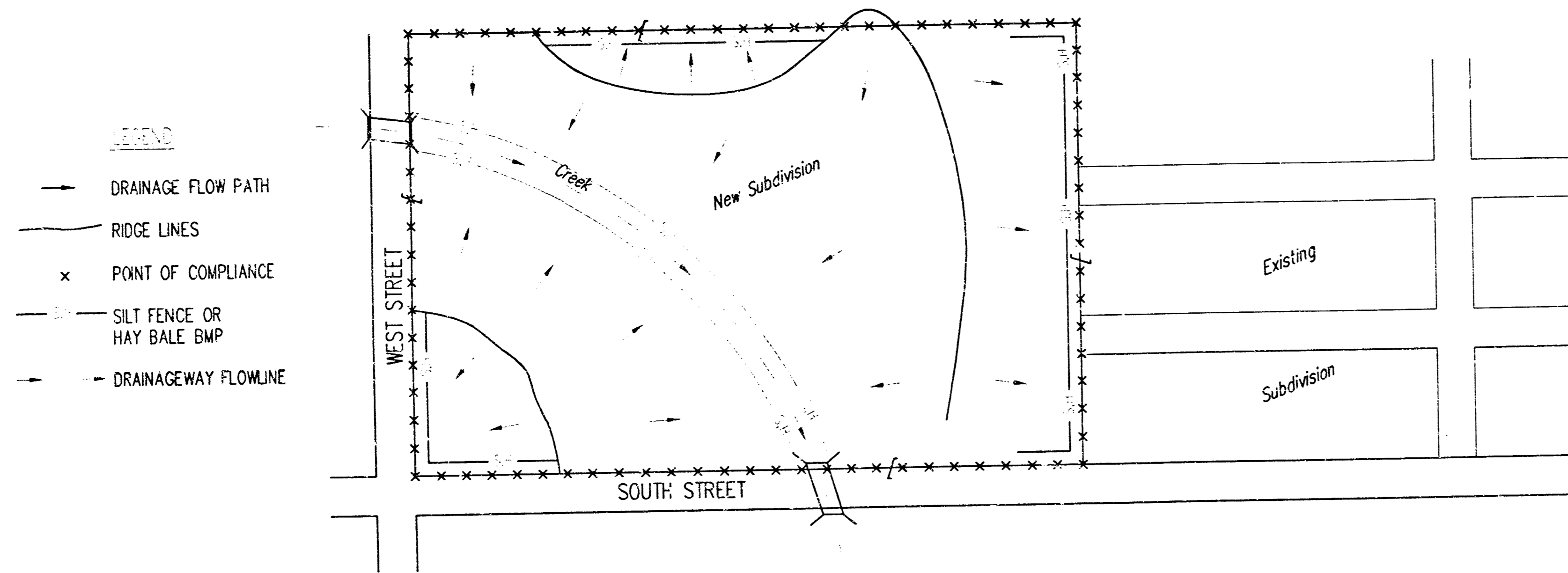
SOIL EROSION BMP DETAILS

CHRISTOPHER M. CARRIER, P.E.
STORM WATER ENGINEER

PROJECT NUMBER: 1186 PPS(607861) DCA NO.: 765682

DATE: MAY 2001 SHEET 3 OF 9

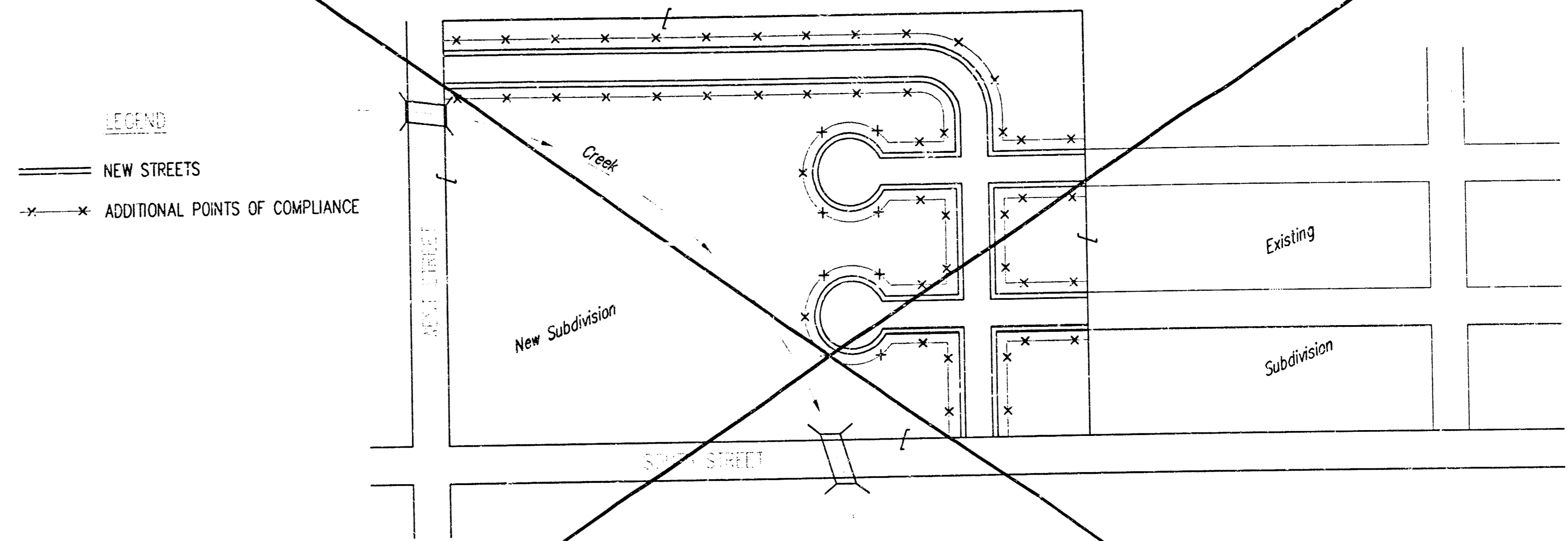
PHASE 1 - INITIAL EARTHWORK AND UTILITIES (EXCEPT STORM SEWER)



- LEGEND**
- DRAINAGE FLOW PATH
 - RIDGE LINES
 - x POINT OF COMPLIANCE
 - - SILT FENCE OR HAY BALE BMP
 - - DRAINAGEWAY FLOWLINE

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. HAYBALES OR SILT FENCE MUST BE CONSTRUCTED ALONG THE PROPERTY LINE WHERE ON SITE WATER CAN DRAIN OFF THE PROPERTY. THESE BMP'S WILL ALSO BE INSTALLED ALONG ANY DRAINAGE DITCH OR LAKE THAT CAN DISCHARGE.
3. SHOULD SILT OR SEDIMENT ENTER THE DITCHES OR GUTTERLINES ON THE ADJACENT BOUNDARY STREETS, APPROPRIATE BMP'S WILL BE PLACED WITHIN THE SUBDIVISION TO PREVENT THIS.
4. ANY MUD TRACKED ONTO ADJACENT STREETS WILL BE REMOVED AT THE END OF EACH WORK DAY.
5. CONTRACTORS WORKING WITHIN THE SITE WILL NOT BE REQUIRED TO USE INDIVIDUAL BMP'S 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 BMP'S AT THEIR WORK LOCATIONS, AS NEEDED.
6. UTILIZE STABILIZED CONSTRUCTION ENTRANCE AT ENTRANCE AND EXIT ONTO ANY EXISTING PUBLIC STREETS.
7. THE SUBDIVISION DEVELOPER (OWNER) SHALL INSTALL AND MAINTAIN THE ON-SITE BMP'S.

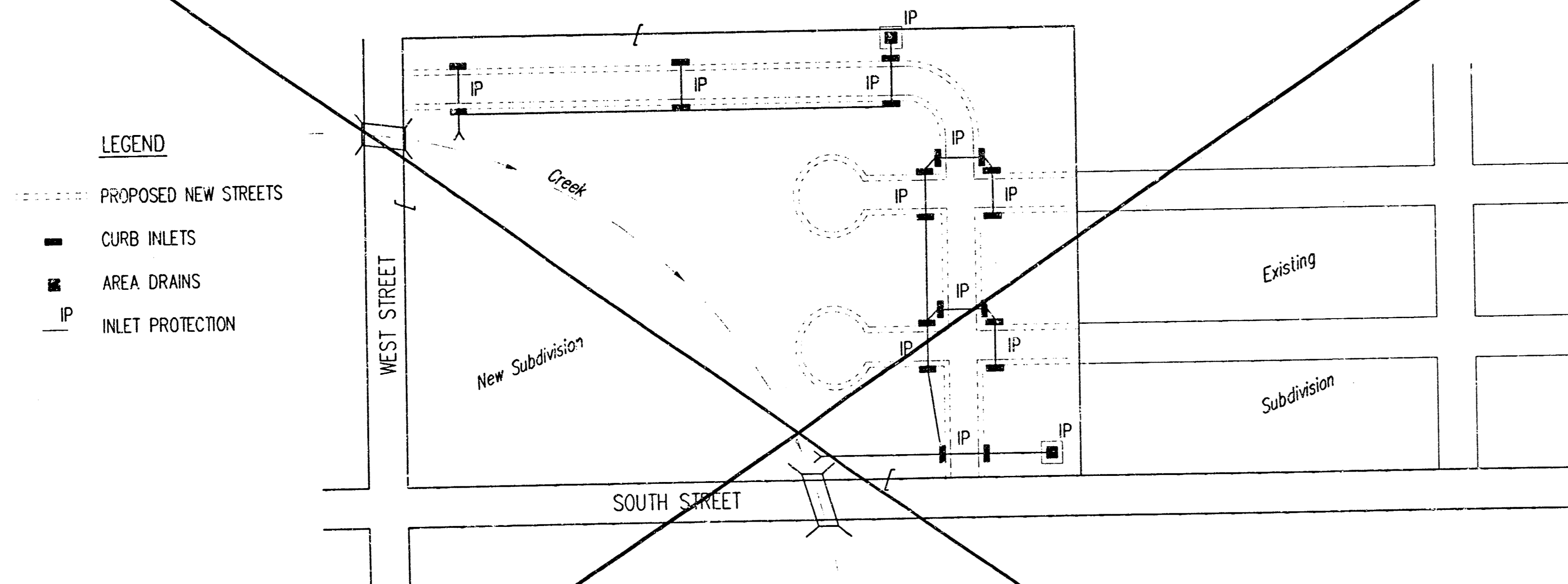
PHASE 3 - STREET CONSTRUCTION



- LEGEND**
- NEW STREETS
 - x- ADDITIONAL POINTS OF COMPLIANCE

1. DURING THIS PHASE OF SUBDIVISION CONSTRUCTION, NEW STREETS ARE INSTALLED. ALL BMP'S 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. BMP'S 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), BMP'S WILL BE REQUIRED AT POINTS WHERE WATER BREAKS OVER CURB WHICH COULD RESULT IN THE PLACEMENT OF SEDIMENT IN THE GUTTER.
4. SEE DETAIL THIS SHEET ON BACK OF CURB PROTECTION.
5. THE BACK OF CURB PROTECTION SPECIFIED ON THIS PLAN MAY HAVE TO BE SUPPLEMENTED WITH HAYBALE OR SILT FENCE BMP'S 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 BMP'S.
7. THE INDIVIDUAL LOT OWNERS WILL BE RESPONSIBLE FOR MAINTAINING THE BACK OF CURB BMP'S IN FRONT OF THEIR LOTS UNTIL SUCH TIME AS ADJACENT DISTURBED EARTH IS STABILIZED WITH GRASS OR SOD.

PHASE 2 - INSTALLATION OF STORM SEWER



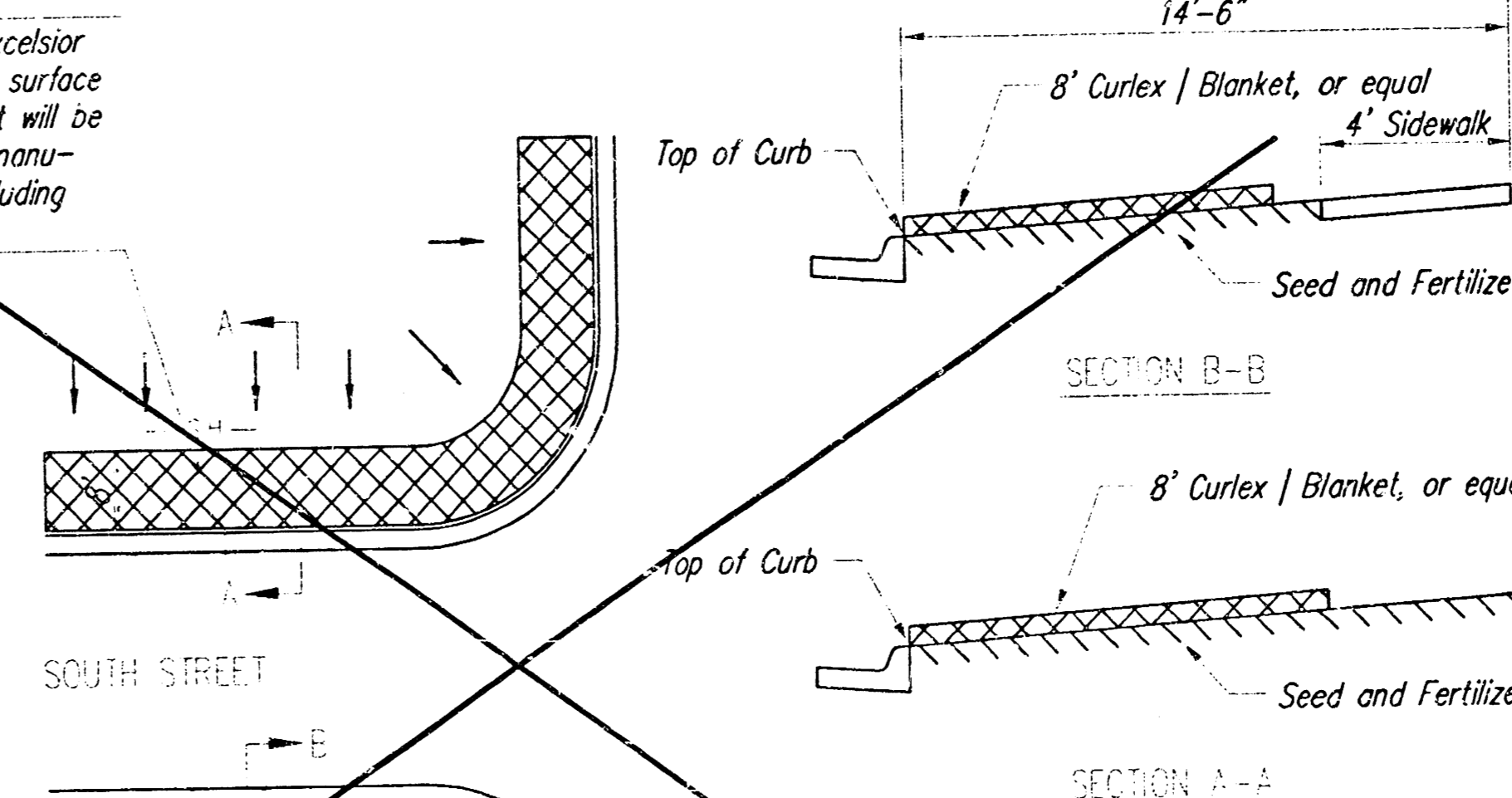
- LEGEND**
- - - - - PROPOSED NEW STREETS
 - CURB INLETS
 - AREA DRAINS
 - IP INLET PROTECTION

1. DURING THIS PHASE OF SUBDIVISION DEVELOPMENT, ALL BMP'S 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, HAYBALE OR SILT FENCE PROTECTION WILL BE INSTALLED AROUND THEM.
4. CURB OPENING INLETS - AS SOON AS WATER CAN FLOW INTO THESE DRAINS, INLET PROTECTION BMP'S MUST BE INSTALLED. SEE PHASE 3 - STREET CONSTRUCTION.
5. THE STORM SEWER CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING THESE BMP'S. IF WATER CANNOT FLOW INTO CURB INLETS UNTIL STREET CONSTRUCTION IS COMPLETE, THEN STREET CONTRACTOR WILL INSTALL INLET PROTECTION.
6. THE SUBDIVISION DEVELOPER WILL MAINTAIN THESE BMP'S ONCE INSTALLED.
7. 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.

GENERAL NOTES:

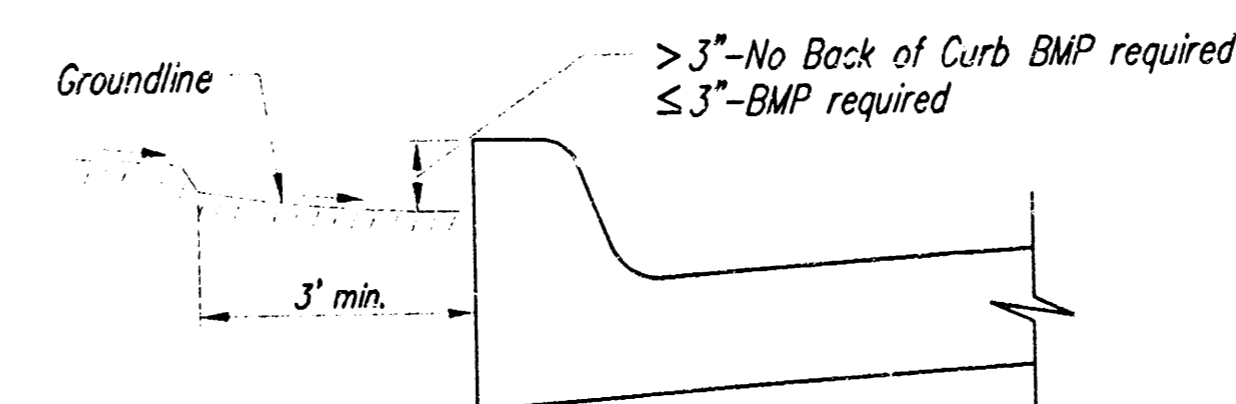
1. THE INTENT OF ALL BEST MANAGEMENT PRACTICES (B.M.P.'S) IS TO PREVENT ERODED SOIL FROM ENTERING DITCHES, STORM SEWERS, OR ANY OTHER DRAINAGE FEATURE.
2. THIS SHEET IS INTENDED TO PROVIDE GUIDELINES AS TO WHAT TYPE OF BMP'S WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS. CONTRACTORS ARE EXPECTED TO END PROJECTS ACCORDINGLY.
3. BMP'S SHALL BE MAINTAINED DURING THE CONSTRUCTION PROCESS TO REMAIN EFFECTIVE. MAINTENANCE SHALL BE AS INDICATED ON THE BMP DETAIL SHEETS.
4. PERSONS DESTROYING BMP'S SHALL BE RESPONSIBLE FOR IMMEDIATELY REPAIRING THEM OR INSTALLING SUITABLE REPLACEMENT BMP'S.
5. THE DEVELOPMENT OF ANY SUBDIVISION THAT DISTURBS 5 ACRES OR MORE WILL REQUIRE A FEDERAL/STATE NPDES STORMWATER PERMIT. THE PREPARATION OF A STORMWATER POLLUTION PREVENTION PLAN IS REQUIRED. EROSION CONTROL BMP'S ARE REQUIRED. THE DETAILS SHOWN ON THIS SHEET ARE THE MINIMUM STANDARDS TO BE SHOWN ON POLLUTION PREVENTION PLAN.
6. FOR SUBDIVISIONS SMALLER THAN 5 ACRES, SOIL EROSION BMP'S 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 BMP'S 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 BMP'S SHOWN ON THIS SHEET IS FOR SITUATIONS NORMALLY ENCOUNTERED. FROM TIME TO TIME, SITUATIONS WILL ARISE THAT MAY REQUIRE A DIFFERENT BMP OTHER THAN THAT SHOWN. BMP'S, 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.

BMP-Install 8' wide Curlex | Excelsior Blanket, or equal, on prepared surface back of curb. Edge of blanket will be at back of curb. Install per manufacturer's recommendation, including staples.



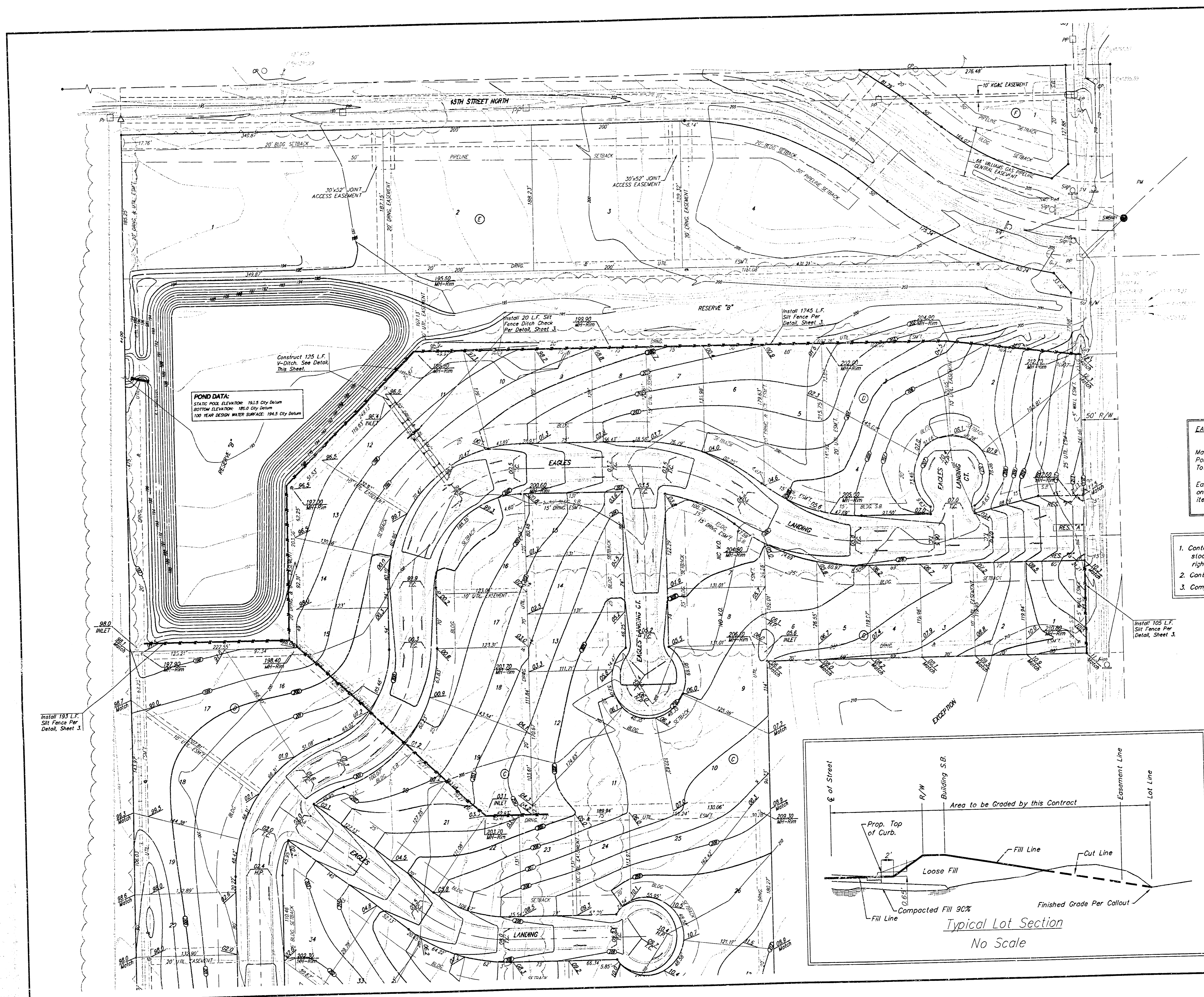
BACK OF CURB PROTECTION DETAIL

BMP-Install 8' wide Curlex | Excelsior Blanket, or equal, on prepared surface back of curb. Edge of blanket will be at back of curb. Install per manufacturer's recommendation, including staples.

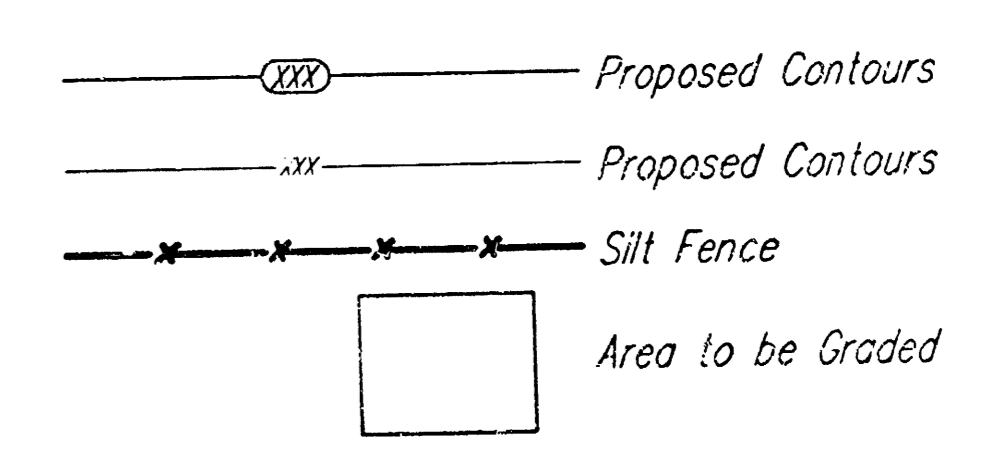


CURB BACKFILL DETAIL

	SOIL EROSION BMP'S SUBDIVISION DEVELOPMENT PROCESS	
	CHRISTOPHER M. CARRIER, P.E. STORM WATER ENGINEER	
	PROJECT NUMBER 1186 PPS(6078G1)	DATE MAY 2001
	SHEET 4 OF 9	



SCALE: 1" = 60'
 • = IRON

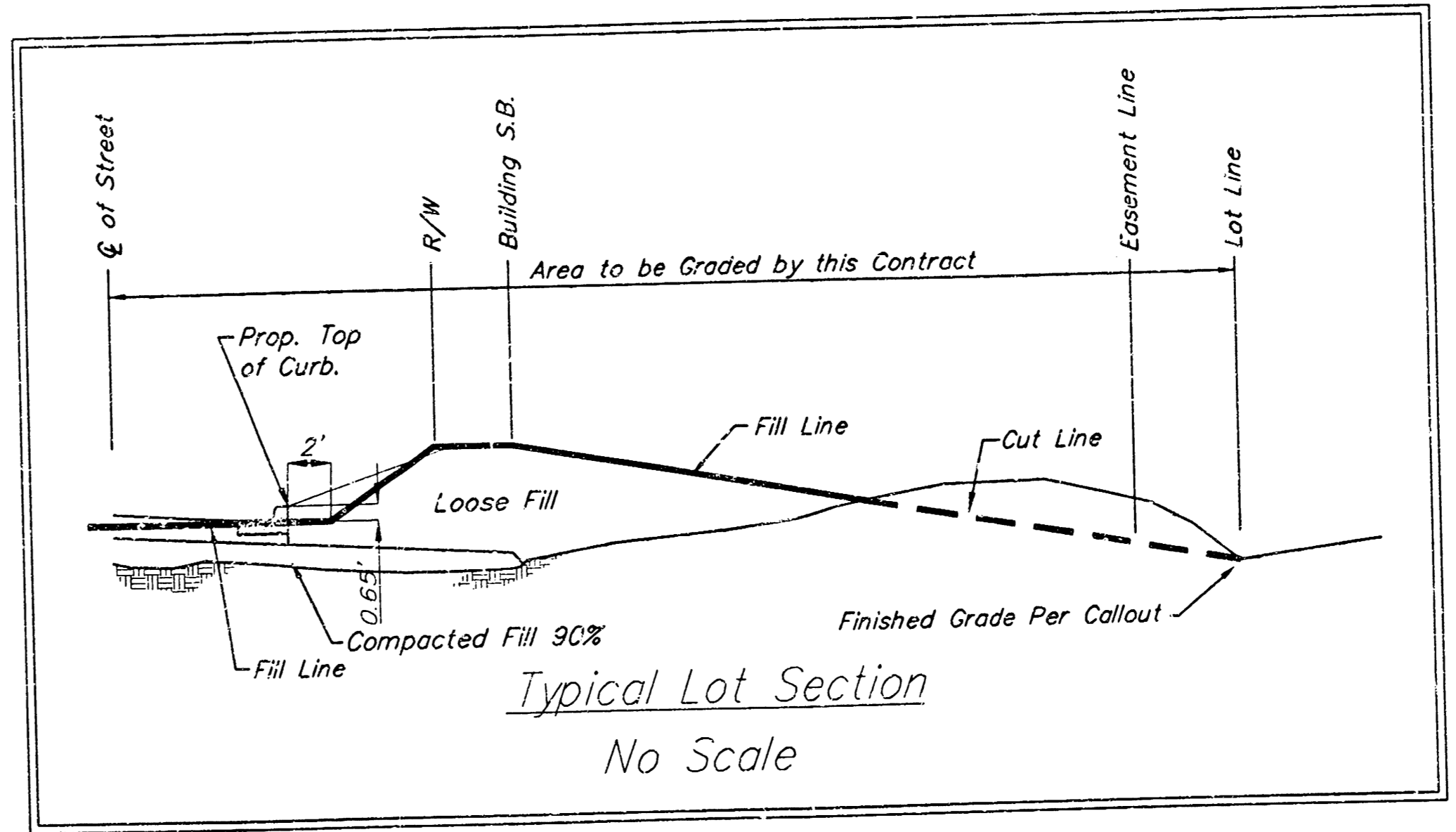
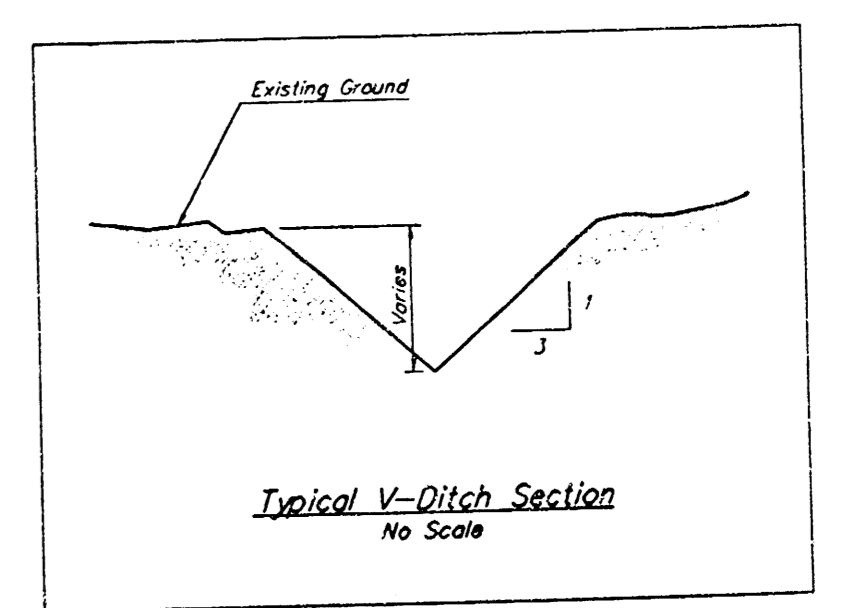


EARTH WORK TOTALS

	C.Y. Cut	C.Y. Fill	Net Yards
Mass Grading	6,520	25,665	19,145 FILL
Pond	24,870	906	23,964 CUT
Total	31,390	26,571	4,819 CUT

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".

- Contractor to strip top 3" of soil before mass grading and stockpile. Top soil stockpile to be redistributed over entire disturbed area excluding street right-of-way to achieve planned grade.
- Contractor to use friable topsoil material for areas that will be seeded.
- Compaction of 90% shall be obtained in all fill areas.



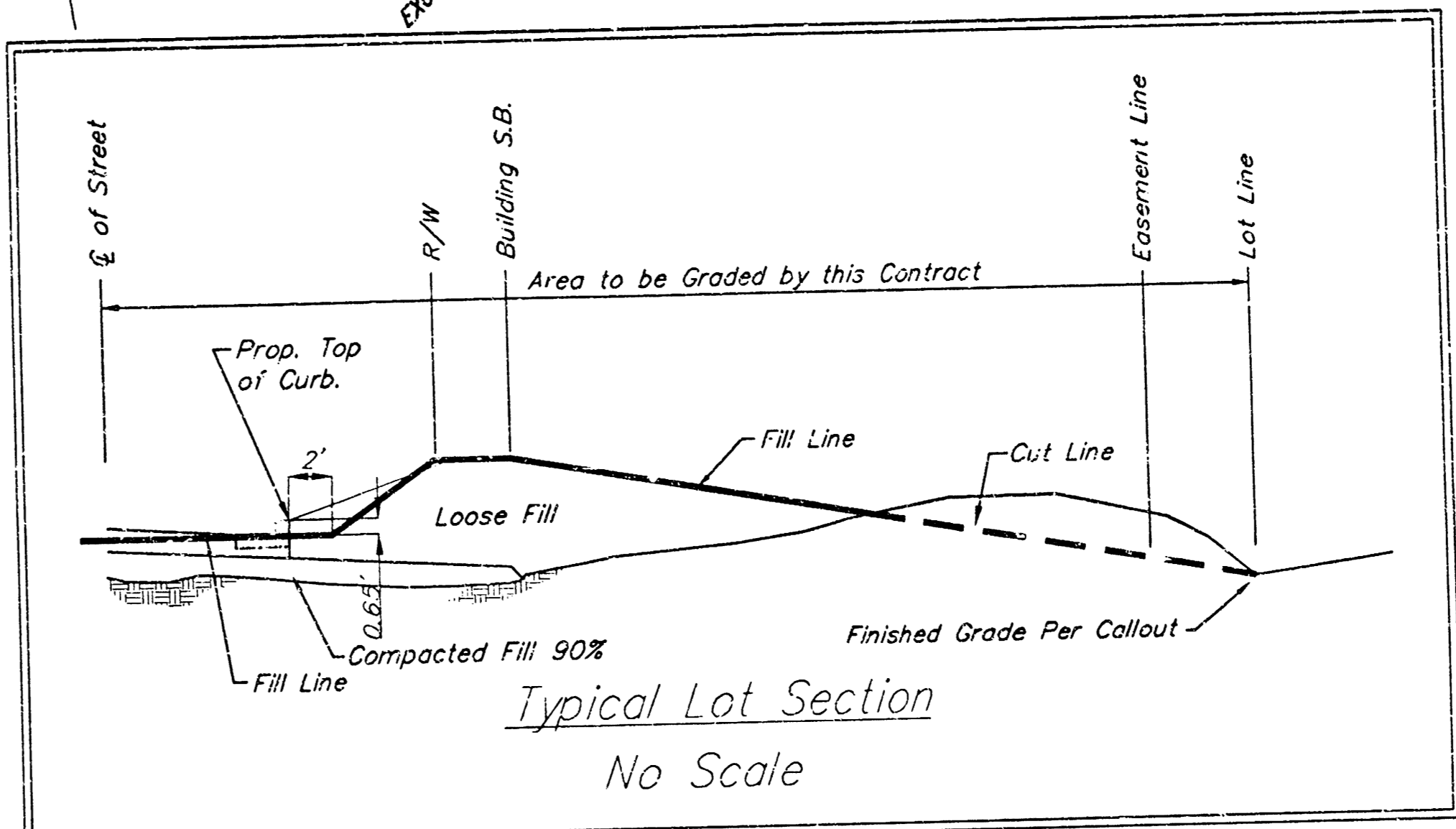
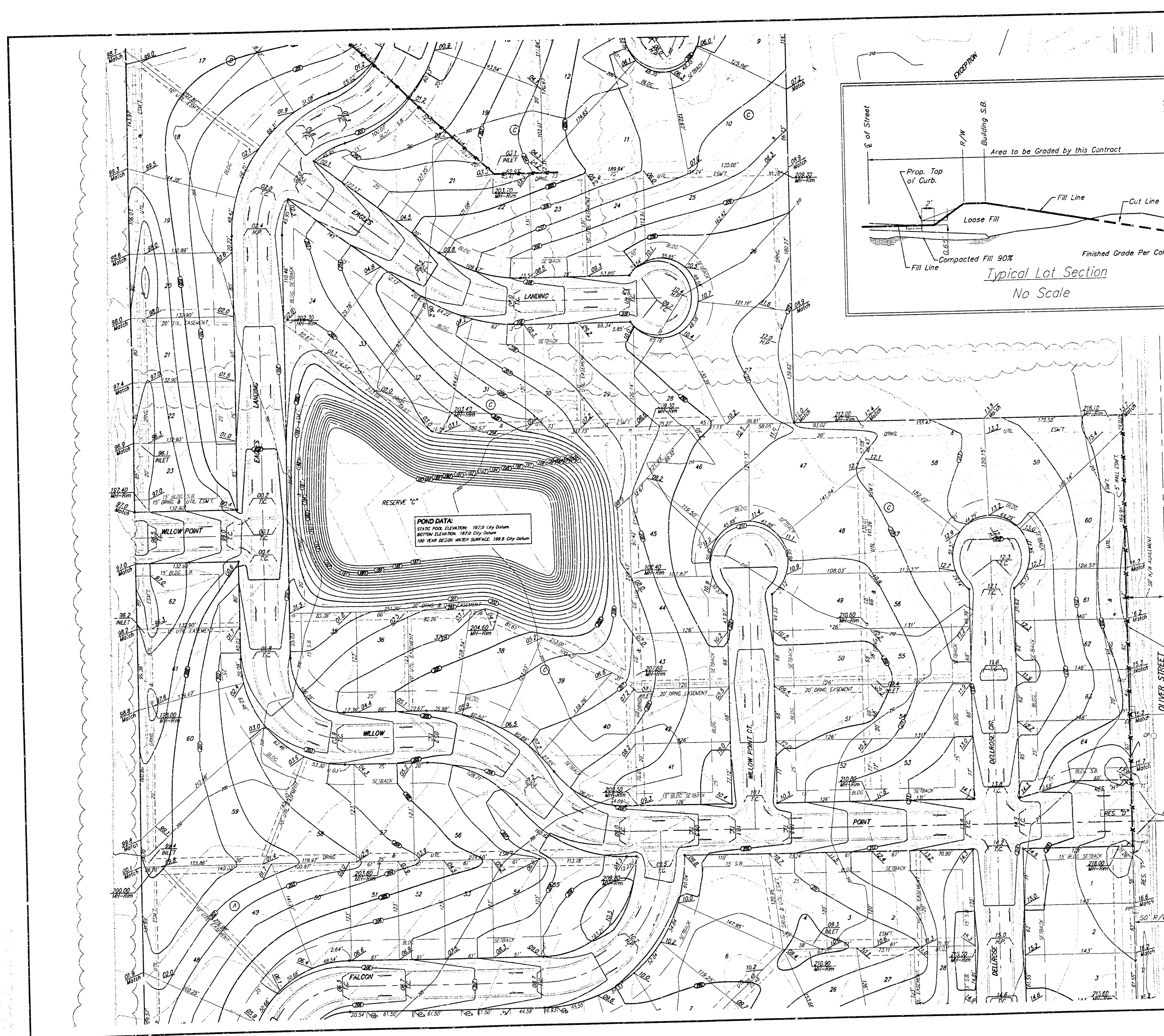
EAGLES LANDING AT NORTH OLIVER END
MASS GRADING
 WICHITA, KANSAS, SEDGWICK COUNTY, KANSAS

BAUGHMAN COMPANY P.A.
 ENGINEERING, SURVEYING, & PLANNING
 316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67202

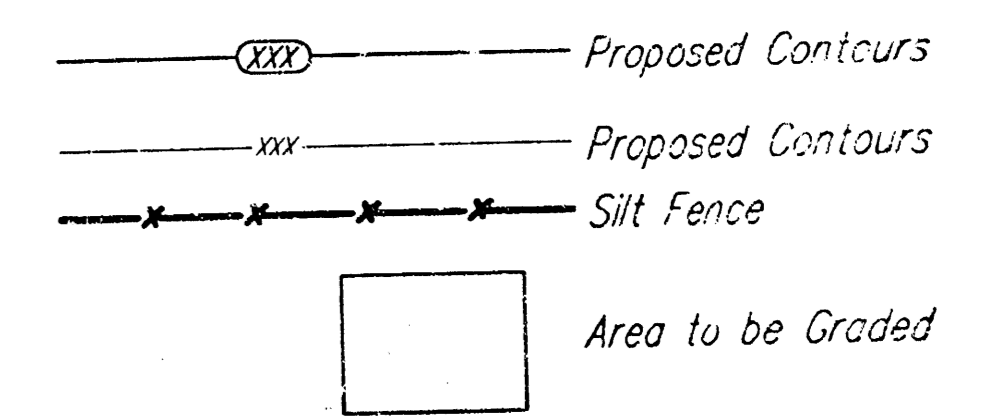
PROJECT NUMBER
1188 PPS(807861)

DESIGN: BLP/AEG DRAWN: JAK APPROVED: DATE: 1/18/02 SCALE: 1" = 50'

SHEET **5** OF **9**



SCALE: 1" = 60'
 • = IRON



EARTH WORK TOTALS

	C.Y. Cut	C.Y. Fill	Net Yards
Mass Grading	5,520	25,665	19,145 FILL
Pond	24,870	906	23,964 CUT
Total	31,390	26,571	4,819 CUT

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".

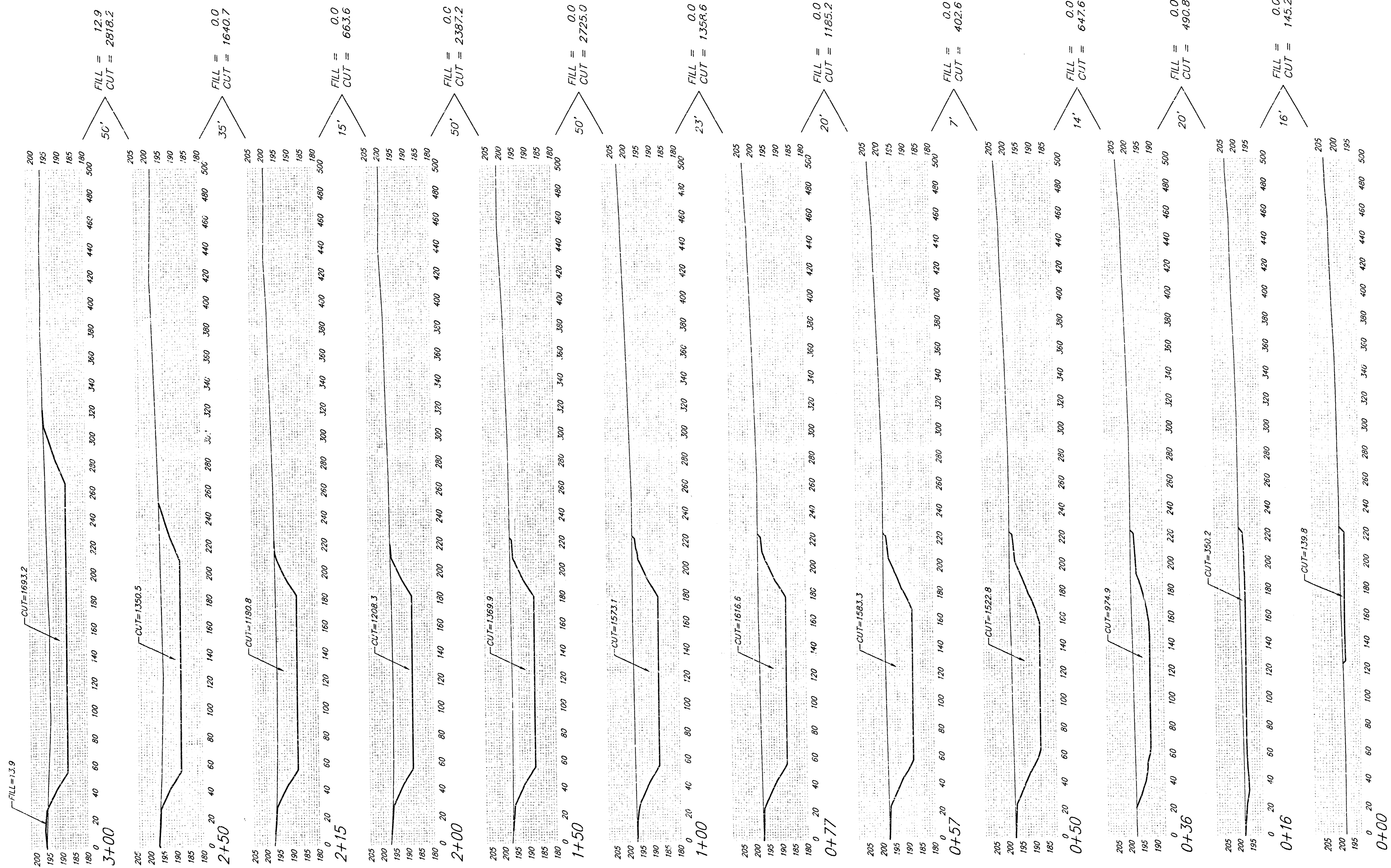
- Contractor to strip top 3" of soil before mass grading and stockpile. Top soil stockpile to be redistributed over entire disturbed area excluding street right-of-way to achieve planned grade.
- Contractor to use friable topsoil material for areas that will be seeded.
- Compaction of 90% shall be obtained in all fill areas.

EAGLES LANDING AT NORTH OLIVER END
MASS GRADING
 WICHITA, KANSAS, SEDGWICK COUNTY, KANSAS

BAUGHMAN COMPANY P.A.
 ENGINEERING, SURVEYING, & PLANNING
 315-262-7271 • 315 ELLIS • WICHITA, KANSAS 67201

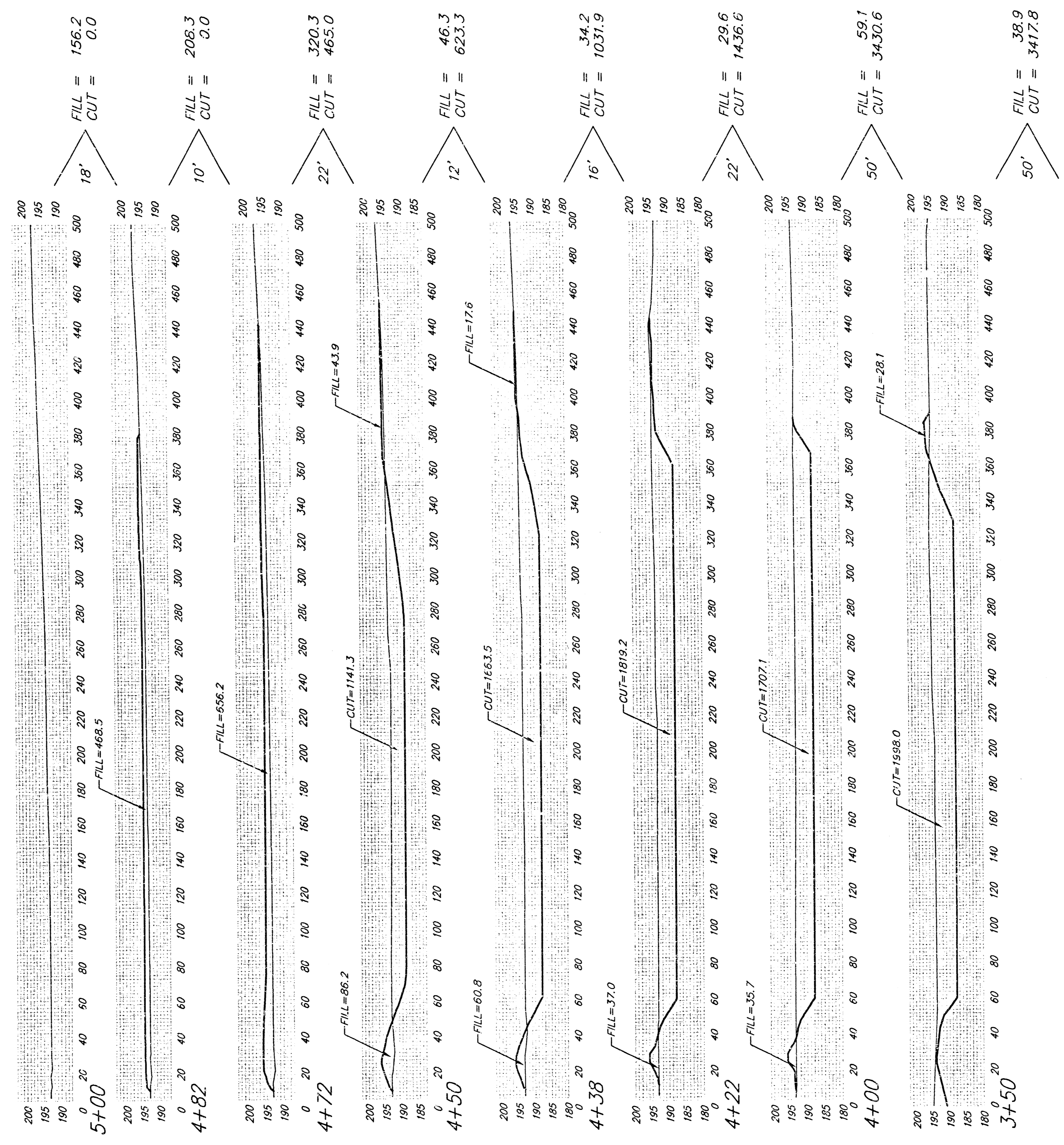
PROJECT NUMBER
1186 PFS(07081)

DESIGN: BLP/AEG DRAWN: JAK APPROVED: [Signature] DATE: 1/18/02 SCALE: 1" = 60' SHEET: 6 OF 9



Sheet Totals:
 Cut = 14,464.4 C.Y.
 Fill = 12.9 C.Y.

BRAUGHMAN COMPANY P.A. ENGINEERING, SURVEYING, & PLANNING 316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211	REV.
	SHEET 7
PROJECT NUMBER	OF 9
1186 FPS (807881)	



Sheet Totals:
 Cut = 10,405.2 C.Y.
 Fill = 892.9 C.Y.

 BAUGHMAN COMPANY P.A. ENGINEERING, SURVEYING, & PLANNING <small>316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211</small>	REV.
	8
PROJECT NUMBER	SHEET
1188 PPS(607861)	OF
	9

EAGLES LANDING AT NORTH OLIVER 2ND WICHITA, SEDGWICK COUNTY, KANSAS

LOT	BLOCK	CITY BLOCK	ELEVATION
1	A	100	1351.4
2	B	101	1351.4
3	C	102	1351.4
4	D	103	1351.4
5	E	104	1351.4
6	F	105	1351.4
7	G	106	1351.4
8	H	107	1351.4
9	I	108	1351.4
10	J	109	1351.4
11	K	110	1351.4
12	L	111	1351.4
13	M	112	1351.4
14	N	113	1351.4
15	O	114	1351.4
16	P	115	1351.4
17	Q	116	1351.4
18	R	117	1351.4
19	S	118	1351.4
20	T	119	1351.4
21	U	120	1351.4
22	V	121	1351.4
23	W	122	1351.4
24	X	123	1351.4
25	Y	124	1351.4
26	Z	125	1351.4
27	AA	126	1351.4
28	AB	127	1351.4
29	AC	128	1351.4
30	AD	129	1351.4
31	AE	130	1351.4
32	AF	131	1351.4
33	AG	132	1351.4
34	AH	133	1351.4
35	AI	134	1351.4
36	AJ	135	1351.4
37	AK	136	1351.4
38	AL	137	1351.4
39	AM	138	1351.4
40	AN	139	1351.4
41	AO	140	1351.4
42	AP	141	1351.4
43	AQ	142	1351.4
44	AR	143	1351.4
45	AS	144	1351.4
46	AT	145	1351.4
47	AU	146	1351.4
48	AV	147	1351.4
49	AW	148	1351.4
50	AX	149	1351.4
51	AY	150	1351.4
52	AZ	151	1351.4
53	BA	152	1351.4
54	BB	153	1351.4
55	BC	154	1351.4
56	BD	155	1351.4
57	BE	156	1351.4
58	BF	157	1351.4
59	BG	158	1351.4
60	BH	159	1351.4
61	BI	160	1351.4
62	BJ	161	1351.4
63	BK	162	1351.4
64	BL	163	1351.4
65	BM	164	1351.4
66	BN	165	1351.4
67	BO	166	1351.4
68	BP	167	1351.4
69	BQ	168	1351.4
70	BR	169	1351.4
71	BS	170	1351.4
72	BT	171	1351.4
73	BU	172	1351.4
74	BV	173	1351.4
75	BW	174	1351.4
76	BX	175	1351.4
77	BY	176	1351.4
78	BZ	177	1351.4
79	CA	178	1351.4
80	CB	179	1351.4
81	CC	180	1351.4
82	CD	181	1351.4
83	CE	182	1351.4
84	CF	183	1351.4
85	CG	184	1351.4
86	CH	185	1351.4
87	CI	186	1351.4
88	CJ	187	1351.4
89	CK	188	1351.4
90	CL	189	1351.4
91	CM	190	1351.4
92	CN	191	1351.4
93	CO	192	1351.4
94	CP	193	1351.4
95	CQ	194	1351.4
96	CR	195	1351.4
97	CS	196	1351.4
98	CT	197	1351.4
99	CU	198	1351.4
100	CV	199	1351.4
101	CW	200	1351.4
102	CX	201	1351.4
103	CY	202	1351.4
104	CZ	203	1351.4
105	DA	204	1351.4
106	DB	205	1351.4
107	DC	206	1351.4
108	DD	207	1351.4
109	DE	208	1351.4
110	DF	209	1351.4
111	DG	210	1351.4
112	DH	211	1351.4
113	DI	212	1351.4
114	DJ	213	1351.4
115	DK	214	1351.4
116	DL	215	1351.4
117	DM	216	1351.4
118	DN	217	1351.4
119	DO	218	1351.4
120	DP	219	1351.4
121	DQ	220	1351.4
122	DR	221	1351.4
123	DS	222	1351.4
124	DT	223	1351.4
125	DU	224	1351.4
126	DV	225	1351.4
127	DW	226	1351.4
128	DX	227	1351.4
129	DY	228	1351.4
130	DZ	229	1351.4
131	EA	230	1351.4
132	EB	231	1351.4
133	EC	232	1351.4
134	ED	233	1351.4
135	EE	234	1351.4
136	EF	235	1351.4
137	EG	236	1351.4
138	EH	237	1351.4
139	EI	238	1351.4
140	EJ	239	1351.4
141	EK	240	1351.4
142	EL	241	1351.4
143	EM	242	1351.4
144	EN	243	1351.4
145	EO	244	1351.4
146	EP	245	1351.4
147	EQ	246	1351.4
148	ER	247	1351.4
149	ES	248	1351.4
150	ET	249	1351.4
151	EU	250	1351.4
152	EV	251	1351.4
153	EW	252	1351.4
154	EX	253	1351.4
155	EY	254	1351.4
156	EZ	255	1351.4
157	FA	256	1351.4
158	FB	257	1351.4
159	FC	258	1351.4
160	FD	259	1351.4
161	FE	260	1351.4
162	FF	261	1351.4
163	FG	262	1351.4
164	FH	263	1351.4
165	FI	264	1351.4
166	FJ	265	1351.4
167	FK	266	1351.4
168	FL	267	1351.4
169	FM	268	1351.4
170	FN	269	1351.4
171	FO	270	1351.4
172	FP	271	1351.4
173	FQ	272	1351.4
174	FR	273	1351.4
175	FS	274	1351.4
176	FT	275	1351.4
177	FU	276	1351.4
178	FV	277	1351.4
179	FW	278	1351.4
180	FX	279	1351.4
181	FY	280	1351.4
182	FZ	281	1351.4
183	GA	282	1351.4
184	GB	283	1351.4
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186	GD	285	1351.4
187	GE	286	1351.4
188	GF	287	1351.4
189	GG	288	1351.4
190	GH	289	1351.4
191	GI	290	1351.4
192	GO	291	1351.4
193	GP	292	1351.4
194	GQ	293	1351.4
195	GR	294	1351.4
196	GS	295	1351.4
197	GT	296	1351.4
198	GU	297	1351.4
199	GV	298	1351.4
200	GW	299	1351.4
201	GX	300	1351.4
202	GY	301	1351.4
203	GA	302	1351.4
204	GB	303	1351.4
205	GC	304	1351.4
206	GD	305	1351.4
207	GE	306	1351.4
208	GF	307	1351.4
209	GG	308	1351.4
210	GH	309	1351.4
211	GI	310	1351.4
212	GO	311	1351.4
213	GP	312	1351.4
214	GQ	313	1351.4
215	GR	314	1351.4
216	GS	315	1351.4
217	GT	316	1351.4
218	GU	317	1351.4
219	GV	318	1351.4
220	GW	319	1351.4
221	GX	320	1351.4
222	GY	321	1351.4
223	GA	322	1351.4
224	GB	323	1351.4
225	GC	324	1351.4
226	GD	325	1351.4
227	GE	326	1351.4
228	GF	327	1351.4
229	GG	328	1351.4
230	GH	329	1351.4
231	GI	330	1351.4
232	GO	331	1351.4
233	GP	332	1351.4
234	GQ	333	1351.4
235	GR	334	1351.4
236	GS	335	1351.4
237	GT	336	1351.4
238	GU	337	1351.4
239	GV	338	1351.4
240	GW	339	1351.4
241	GX	340	1351.4
242	GY	341	1351.4
243	GA	342	1351.4
244	GB	343	1351.4
245	GC	344	1351.4
246	GD	345	1351.4
247	GE	346	1351.4
248	GF	347	1351.4
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254	GQ	353	1351.4
255	GR	354	1351.4
256	GS	355	1351.4
257	GT	356	1351.4
258	GU	357	1351.4
259	GV	358	1351.4
260	GW	359	1351.4
261	GX	360	1351.4
262	GY	361	1351.4
263	GA	362	1351.4
264	GB	363	1351.4
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268	GF	367	1351.4
269	GG	368	1351.4
270	GH	369	1351.4
271	GI	370	1351.4
272	GO	371	1351.4
273	GP	372	1351.4
274	GQ	373	1351.4
275	GR	374	1351.4
276	GS	375	1351.4
277	GT	376	1351.4
278	GU	377	1351.4
279	GV	378	1351.4
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281	GX	380	1351.4