

COUNTY	STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
SEDGWICK	KANSAS	SCP-1	2013	1	39

SEDGWICK COUNTY PUBLIC WORKS

T. Mason - City of Wichita, Inspector
Release Date: 9/1/2015
: APRosas 9/3/2015

PROJECT NO. SCP-1

GRADING
SUBGRADE MODIFICATION
CONCRETE SURFACING
SANITARY SEWER
SEEDING
PAVEMENT MARKING

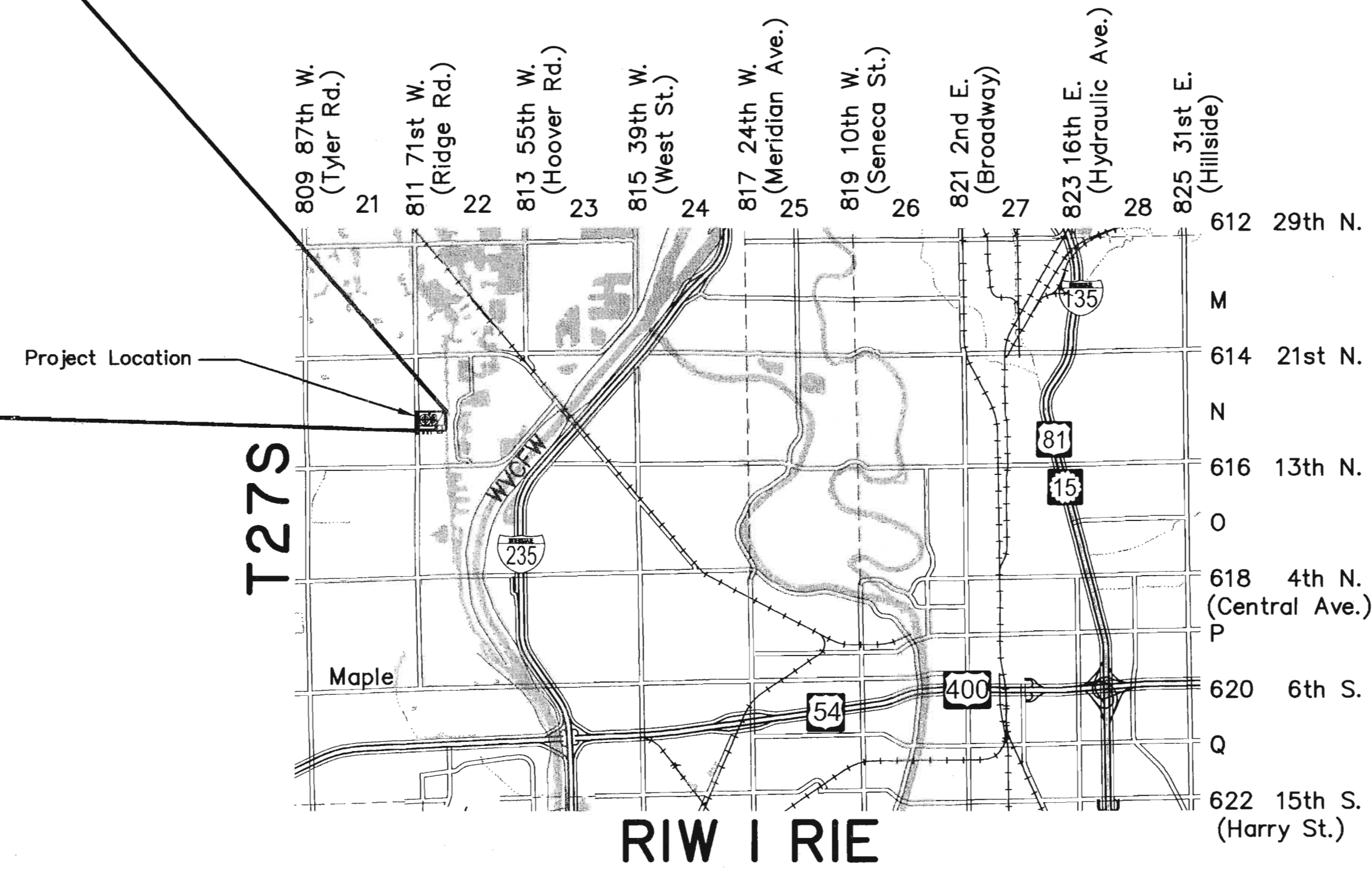
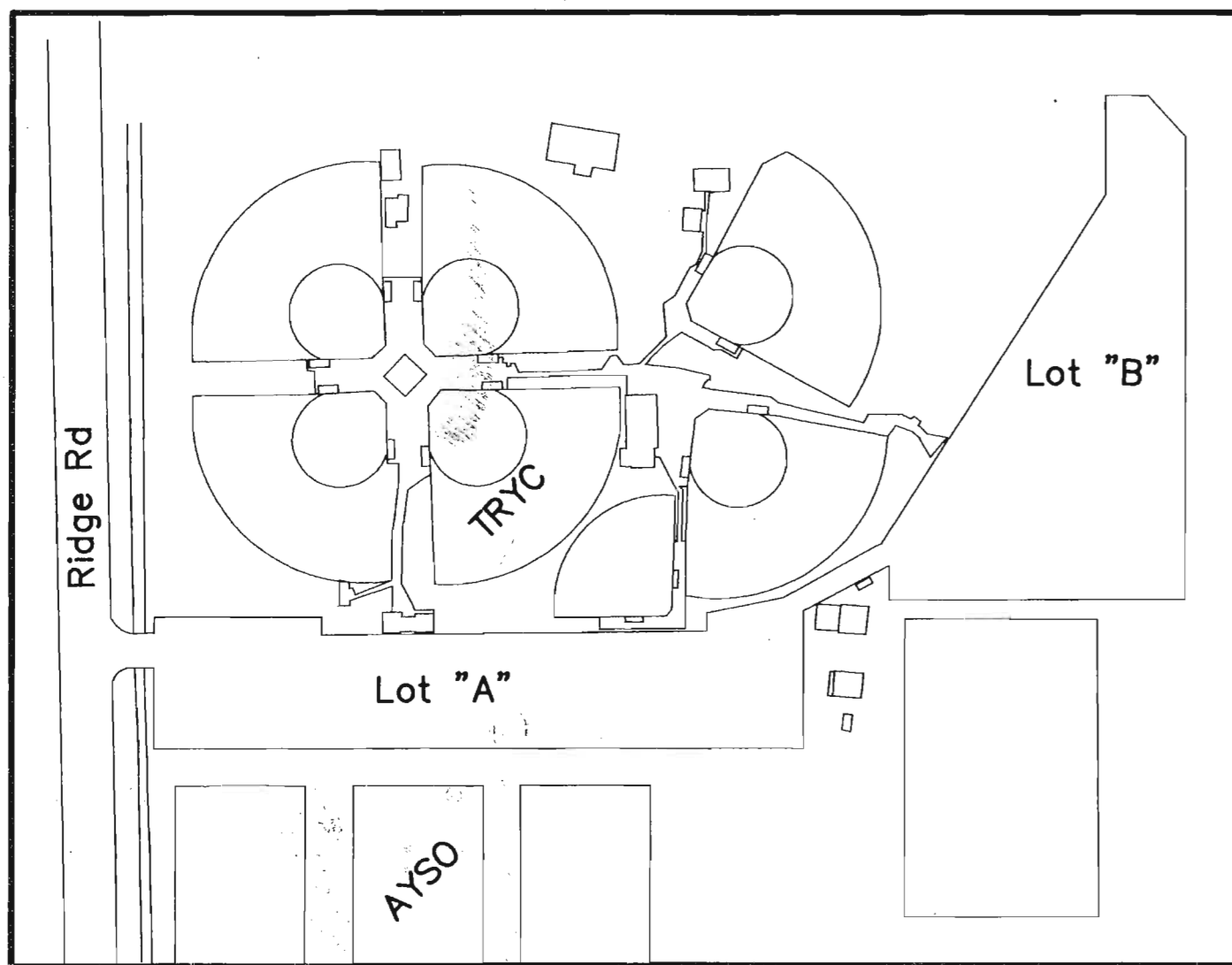
Index of Sheets

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WEST SEDGWICK COUNTY PARK; SANITARY SEWER & PARKING LOT IMPROVEMENTS

2165pps As-Built
Contractor: Graber Excavating
Inspector: Inspectors Initials, SEH, Sedgwick Co.
Date: 11-15-13



Know what's below.
Call before you dig.

KS: (800) 344-7233 WICHITA: (316) 687-2470

The Contractor shall provide a minimum advance notice of **TWO (2) Working Days** to Utility Companies prior to any excavation.

PLANS PREPARED BY:

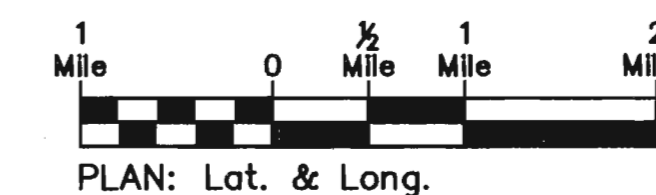
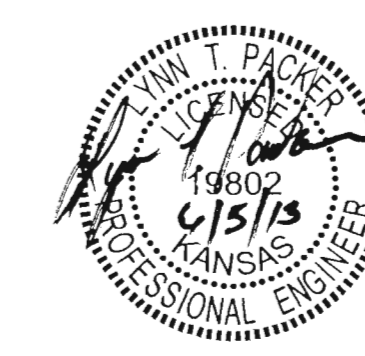
SEDGWICK COUNTY PUBLIC WORKS
HIGHWAY DEPARTMENT

APPROVED:

David C. Spears
DAVID C. SPEARS, P.E.
DIRECTOR OF PUBLIC WORKS/COUNTY ENGINEER
DATE: 6/6/2013

APPROVED:

J.P.P.
BOARD OF COUNTY COMMISSIONERS
DATE: 6/6/13



CONVENTIONAL SIGNS

- TELEPHONE POLE
 - POWER POLE
 - COMB. POWER & TELEPHONE
 - WIRE FENCE
 - RAILROADS
 - SURVEY LINE
 - RIGHT OF WAY
 - TOWNSHIP LINE
 - CONSTRUCTION LIMITS
 - GUARD FENCE
 - HEDGE ROW
 - EDGE OF TIMBER
 - TREES
- Conifer Deciduous Bush

NET AREA OF LOT IMPROVEMENTS	257,938 SQ. FT.	5.921 ACRES
NET LENGTH OF SANITARY SEWER	1,480 LN. FT.	0.280 MILES
EXCEPTIONS	0.00 FT.	0.000 MILES
ADDITIONS	0.00 FT.	0.000 MILES
GROSS AREA OF PROJECT	276,153 SQ. FT.	6.340 ACRES

COUNTY	STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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GENERAL NOTES

All construction work and materials shall comply with Kansas Department of Transportation Standard Specifications for State Road and Bridge Construction (2007 Edition) and project special provisions unless otherwise noted, except for sanitary sewer construction. All sanitary sewer work, materials, and related work items shall conform to the City of Wichita, Kansas Standard Specifications for the Construction of Public Projects (latest edition).

All disposal sites must be approved by the Kansas Department of Health and Environment. Material either stockpiled or disposed of in a flood plain will require a Kansas State Board of Agriculture permit. Any material dumped in waters of the United States or wetlands is subject to the U.S. Corps of Engineers permitting regulations.

Any material buried or stockpiled beyond approved construction limits will require additional archeological investigations unless buried in a previously approved borrow location.

All borrow areas provided by the Contractor shall be approved by the Engineer as to suitability of material and location. Special care shall be taken in this approval to minimize the increase of siltation and turbidity of streams, lakes and reservoirs and to avoid interference with the movement of migratory fish. Areas which, in the opinion of the Engineer, may leave an unsightly appearance to the project will not be approved.

All borrow area locations shall be submitted to the Engineer for clearance from the Kansas Historical Society and the Kansas Department of Wildlife and Parks prior to any excavation.

The amount of material stockpiled may be varied, but only with the prior approval of the Engineer.

Drainage structures to be removed shall become the property of the Contractor. Extreme caution shall be used to prevent any damage to existing stormwater structures that are to remain.

The survey control is based on an existing benchmark as described on Sh. No. 3, and was converted to the NAVD 1988 vertical datum. It is the responsibility of the Contractor to verify the project datum, and all stated control points, and report any discrepancies to the Engineer immediately.

Existing utilities, both above and below ground, and their location as shown on the plans, represent the best information available at the time of design. The locations of utilities as shown on the plans are not guaranteed and the Contractor shall verify all utilities and their locations before beginning construction. Additional utilities, including relocated utilities, which are not shown on the plans may be encountered. In this event the Contractor shall adjust his schedules and cooperate with the utility companies in order that their facilities may be adjusted as required to clear construction. The Contractor shall exercise extreme caution while working near utilities and shall be responsible for all utilities damaged by the construction activity. No additional compensation or working days will be allowed for any delays, inconveniences or damages sustained by the Contractor due to utility conflicts and their resolution unless all other major items of work on the project have been completed.

Private utility lines exist within the project area. The Contractor shall work with the owners representatives to locate and protect said utility lines. No additional compensation or working days will be allowed for any delays, inconveniences or damages sustained by the Contractor due to private utility conflicts and their resolution unless all other major items of work on the project have been completed. See Sh. No. 33 for contact information.

The Contractor shall notify the utility companies at least two (2) working days in advance of any work being performed over and/or adjacent to their facilities.

Notify Westar Energy to arrange for appropriate safety precautions before working within ten feet of an overhead high voltage line in accordance with the Overhead Power Line Accident Prevention Act.

Clearing and grubbing shall be in accordance with Section 201 of the Kansas Department of Transportation Standard Specifications except as described here. Do not remove any trees or shrubs outside the construction limits without the prior approval of the Engineer. Preserve and protect from damage those trees and shrubs that, in the opinion of the Engineer, do not need to be removed. Trees and shrubs to remain shall be trimmed to clear the proposed construction activities. Trimming shall be performed by methods approved by the Engineer, and shall be in accordance with standard industry practices. Provide temporary fences or other suitable barriers as necessary to prevent accidental damage to the remaining trees during construction. This work shall be SUBSIDIARY to "Clearing and Grubbing."

It is the Contractor's responsibility to maintain drainage throughout the duration of this project. All temporary drainage structures or channels and all work necessary to maintain proper drainage shall be SUBSIDIARY to other items of the contract. End sections will not be required on temporary pipes.

Concrete pavement used on this project shall be Roller Compacted Concrete (RCC). The RCC shall meet the material and construction specifications of the Sedgwick County Roller Compacted Concrete special provision. In areas not accessible to the paver the Contractor shall substitute RCC for Portland Cement Concrete Pavement (PCCP) meeting the requirements of Section 502 of the KDOT Standard Specifications (and as revised by any applicable special provisions).

Detectable warning panels that meet the requirements of the Americans with Disabilities Act (ADA) are required to be installed with the sidewalks at locations noted in these plans. The panels shall be made of a composite-type material. Any panel not on the KDOT prequalified list must be approved by the Engineer prior to installation. The color of the panel shall either be Federal Yellow or Brick Red, which shall be used consistently throughout the project. All materials and labor to install composite panels with truncated domes are SUBSIDIARY to the bid item, "Sidewalk Construction (4") (AE)."

Existing fences that interfere with the proposed construction should be removed by others at the beginning of construction operations. The bid item "Fence (Chain Link) (Removal and Resetting)" shall be full compensation for the temporary removal and resetting of existing fences that may not be completely removed from the work area. The unit price for "Fence (Chain Link) (Removal and Resetting)" shall govern regardless of overrun or underrun. This bid item may be underrun in its entirety.

Concrete may be used at the Contractor's option to patch the bike path which will be partially removed during sanitary sewer construction. There will be no increase in the unit bid price for completing such work. The contract unit price for "Remove and Replace, 4" Asphalt Bike Path" shall be full compensation for properly replacing the pavement according to the standards set forth in the Contract Documents.

Once work has begun, temporary erosion and pollution control will be initiated for areas that have been disturbed within 14 calendar days after construction activities have temporarily or permanently ceased on a portion of the project site or as constructed features become susceptible to erosion. The Contract unit price for temporary erosion control bid items shall govern regardless of the amount of overrun or underrun. These bid items may be underrun in their entirety.

All areas disturbed outside the proposed pavement limits shall be restored to pre-construction condition. All disturbed vegetated areas shall be seeded as shown in the Contract Documents, except embankment areas designated for "Pedestrian Pathways." These areas shall be compacted to Type B (MR-90) specifications and graded to an elevation 2" below the adjacent parking lot pavement to allow for mulching of the paths (by others). Seeding shall be paid for separately. All other work, materials, labor, etcetera required to restore the site, including concrete replacement for sewer construction, is SUBSIDIARY to the bid item "Site Restoration."

All pavement marking shall conform to the requirements of the Kansas Department of Transportation Standard Specifications for State Road and Bridge Construction (2007), except no glass beads are be required to be applied.

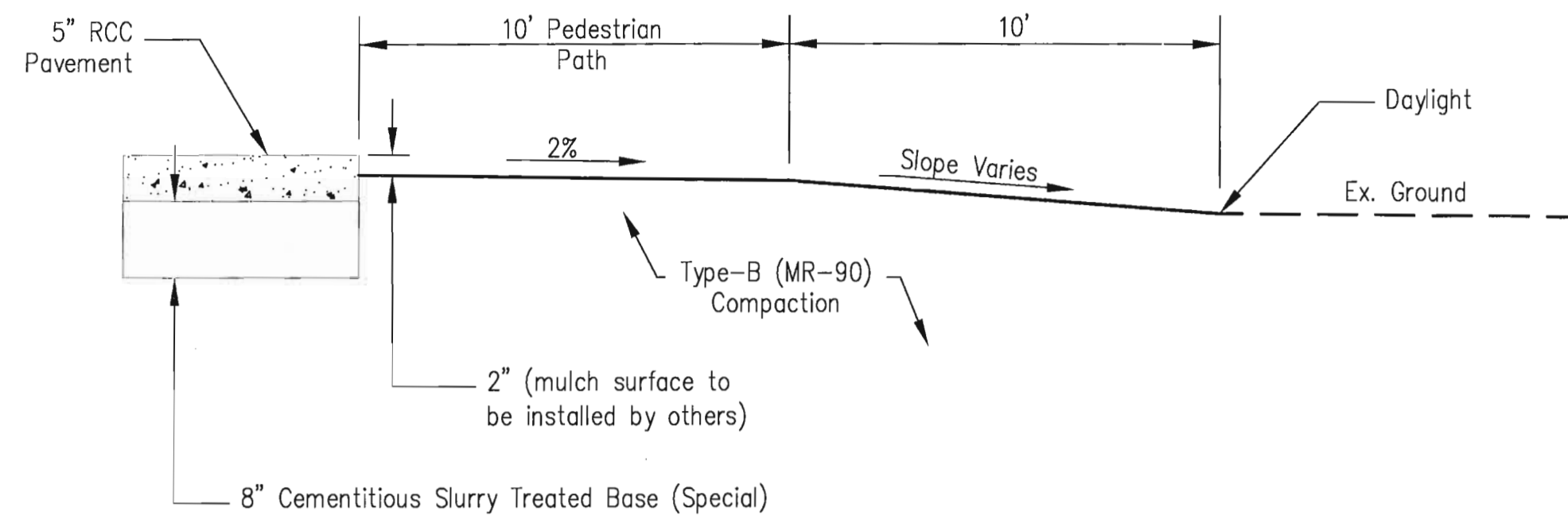
This is a Calendar Completion Date contract. The Contractor shall have until September 13, 2013 to substantially complete all work items. Substantially complete means all work items except seeding, mulching, and sign installation shall be complete. The Contractor will be allotted 5 working days after September 13, 2013 to complete any remaining items. This extension includes cleanup working days.

UTILITIES

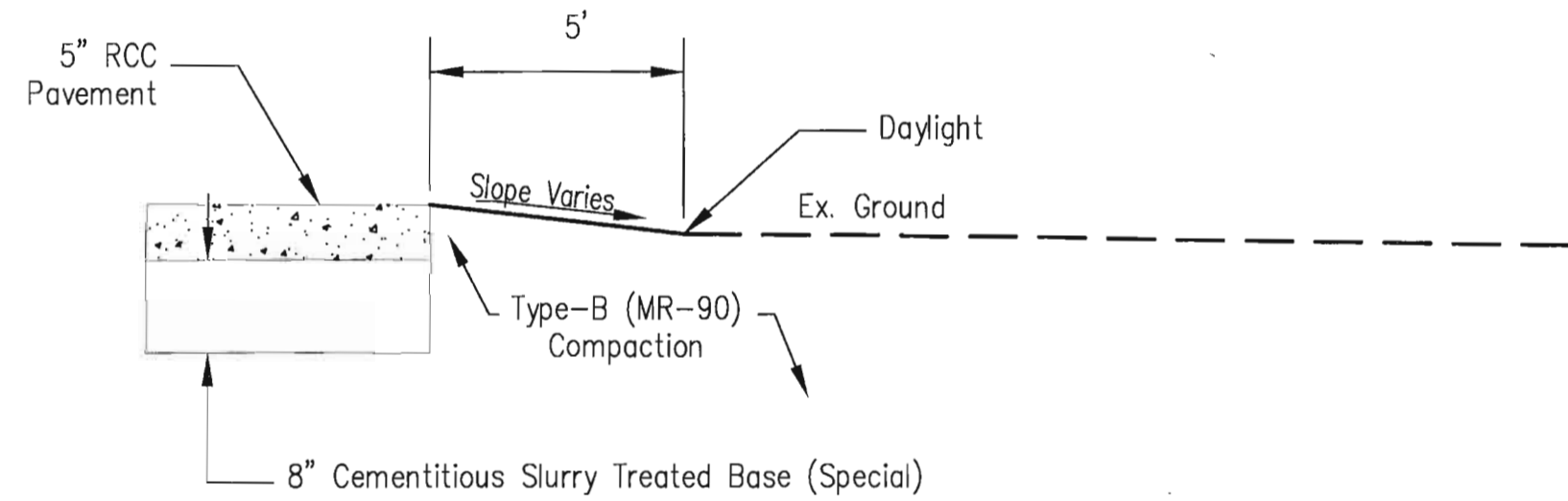
Westar Energy —OE—
 1900 E. Central, 3rd Floor
 Wichita, KS 67214
 Phone: 316-261-6824
 Attn: Miles Capps

AYSO (Private) —UT—
 1700 N. Ridge Rd.
 Wichita, KS 67212
 Phone: 316-641-8607
 Attn: Craig Bay

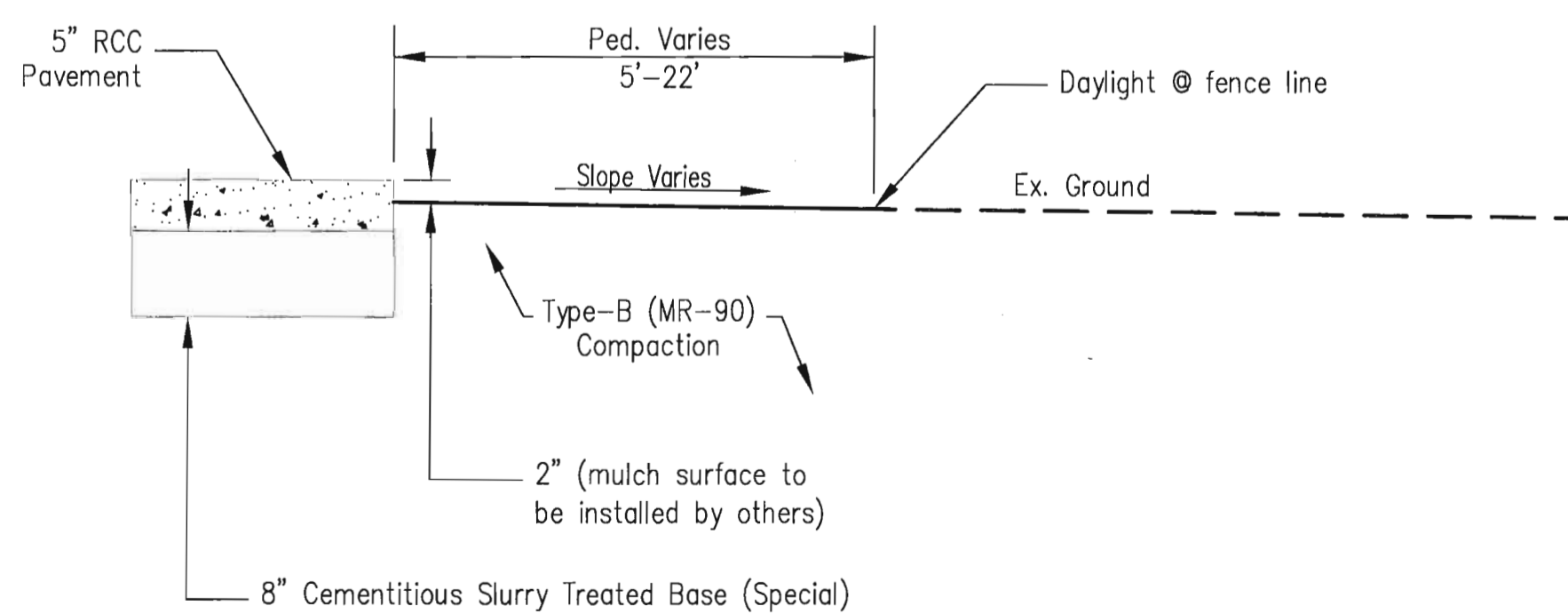
AYSO (Private) —W—
 1700 N. Ridge Rd.
 Wichita, KS 67212
 Phone: 316-641-8607
 Attn: Craig Bay



TYPICAL SECTION
 Along south side Lot "A" & "B"



TYPICAL SECTION
 Along east side Lot "A"
 Along north & east side Lot "B"



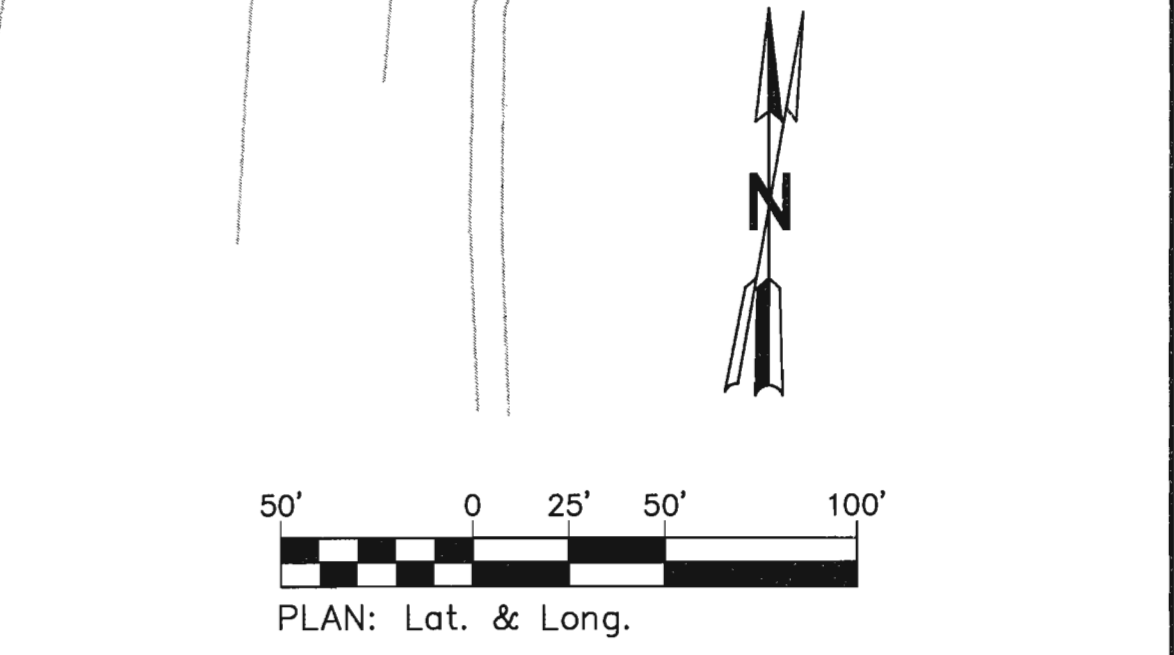
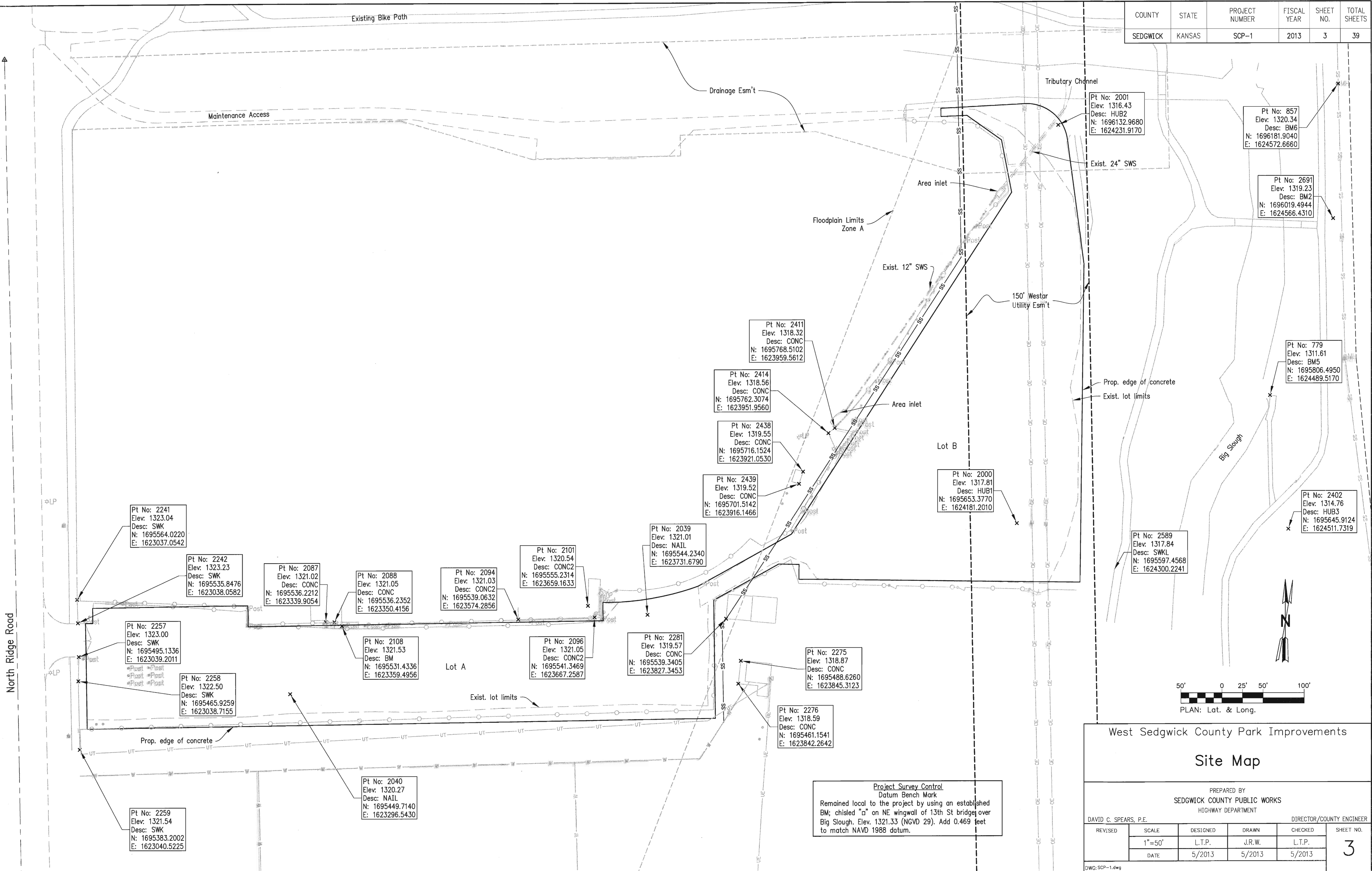
TYPICAL SECTION
 Along northwest side of Lot "B"

West Sedgwick County Park Improvements					
GENERAL NOTES AND TYPICAL SECTIONS					
PREPARED BY SEDGWICK COUNTY PUBLIC WORKS HIGHWAY DEPARTMENT					
DAVID C. SPEARS, P.E.			DIRECTOR/COUNTY ENGINEER		
REVISED	SCALE	DESIGNED	DRAWN	CHECKED	SHEET NO.
		L.T.P.	J.R.W.	L.T.P.	2
		DATE	6/2013	6/2013	
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COUNTY	STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
SEDGWICK	KANSAS	SCP-1	2013	3	39

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Project Survey Control
 Datum Bench Mark
 Remained local to the project by using an established
 BM; chisled "a" on NE wingwall of 13th St bridge over
 Big Slough. Elev. 1321.33 (NGVD 29). Add 0.469 feet
 to match NAVD 1988 datum.

West Sedgwick County Park Improvements

Site Map

PREPARED BY
 SEDGWICK COUNTY PUBLIC WORKS
 HIGHWAY DEPARTMENT

DAVID C. SPEARS, P.E.		DIRECTOR/COUNTY ENGINEER	
REVISED	SCALE	DESIGNED	DRAWN
	1"=50'	L.T.P.	J.R.W.
	DATE	5/2013	5/2013
			CHECKED
			L.T.P.
			DATE
			5/2013
SHEET NO.			
3			

DWG: SCP-1.dwg

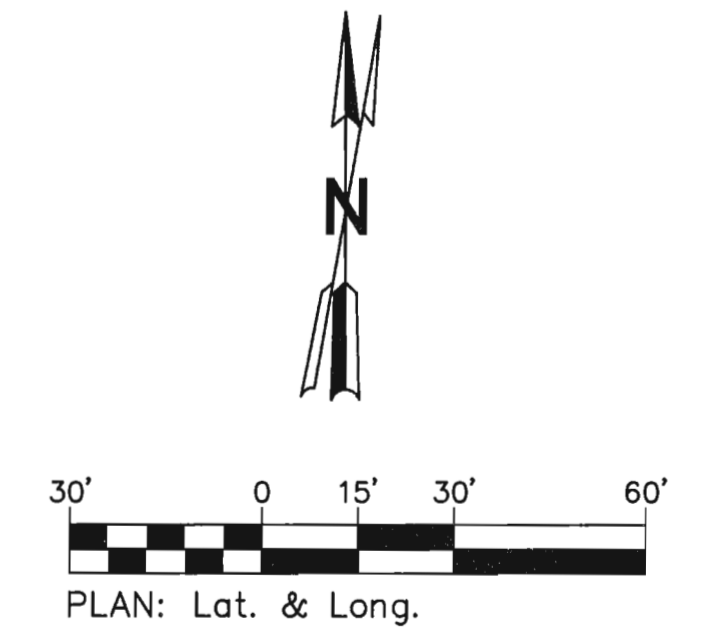
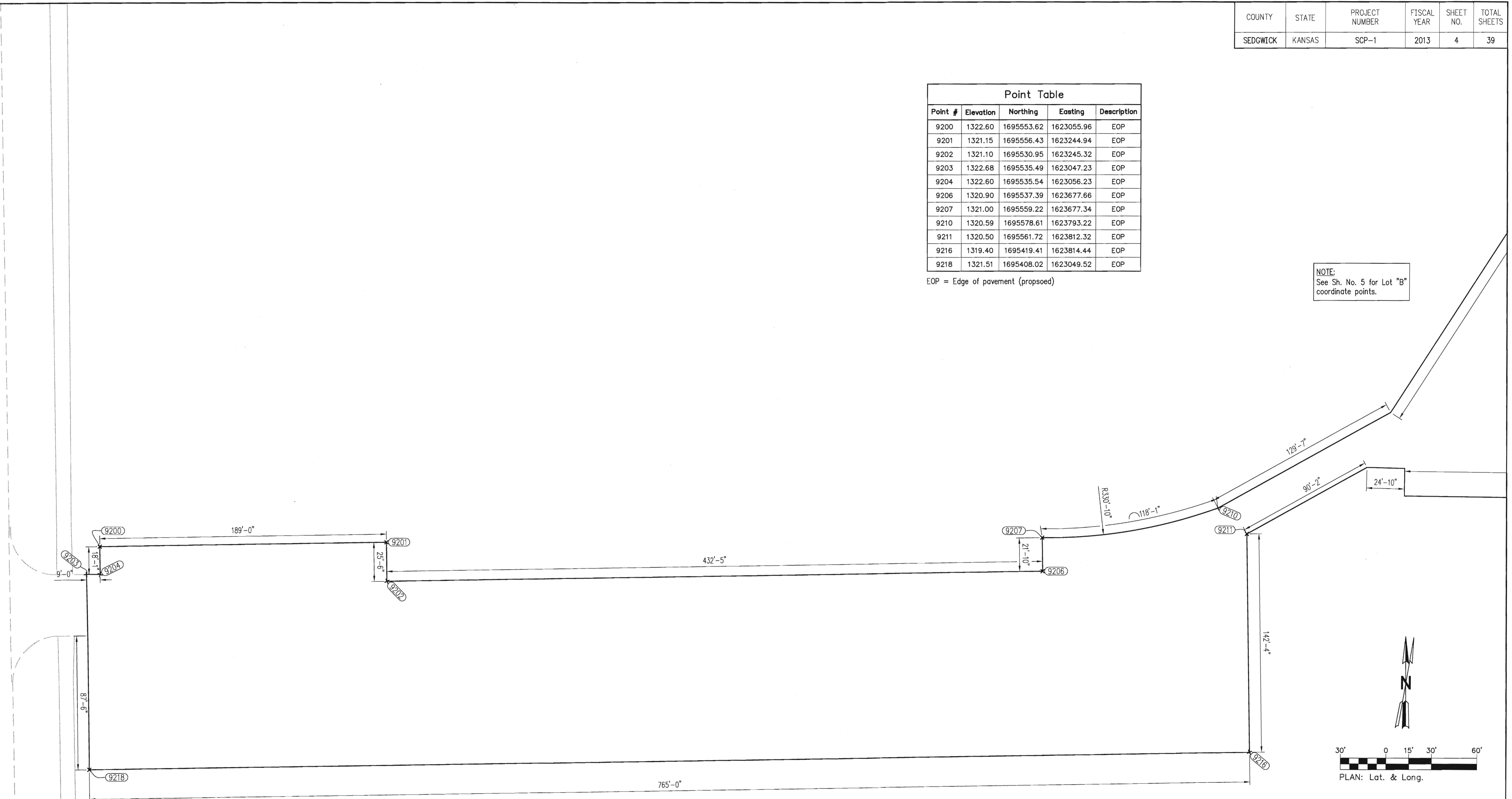
COUNTY	STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
SEDGWICK	KANSAS	SCP-1	2013	4	39

Point Table				
Point #	Elevation	Northing	Easting	Description
9200	1322.60	1695553.62	1623055.96	EOP
9201	1321.15	1695556.43	1623244.94	EOP
9202	1321.10	1695530.95	1623245.32	EOP
9203	1322.68	1695535.49	1623047.23	EOP
9204	1322.60	1695535.54	1623056.23	EOP
9206	1320.90	1695537.39	1623677.66	EOP
9207	1321.00	1695559.22	1623677.34	EOP
9210	1320.59	1695578.61	1623793.22	EOP
9211	1320.50	1695561.72	1623812.32	EOP
9216	1319.40	1695419.41	1623814.44	EOP
9218	1321.51	1695408.02	1623049.52	EOP

EOP = Edge of pavement (proposed)

NOTE:
See Sh. No. 5 for Lot "B"
coordinate points.

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**West Sedgwick County Park Improvements
Coordinate Plan
Lot "A"**

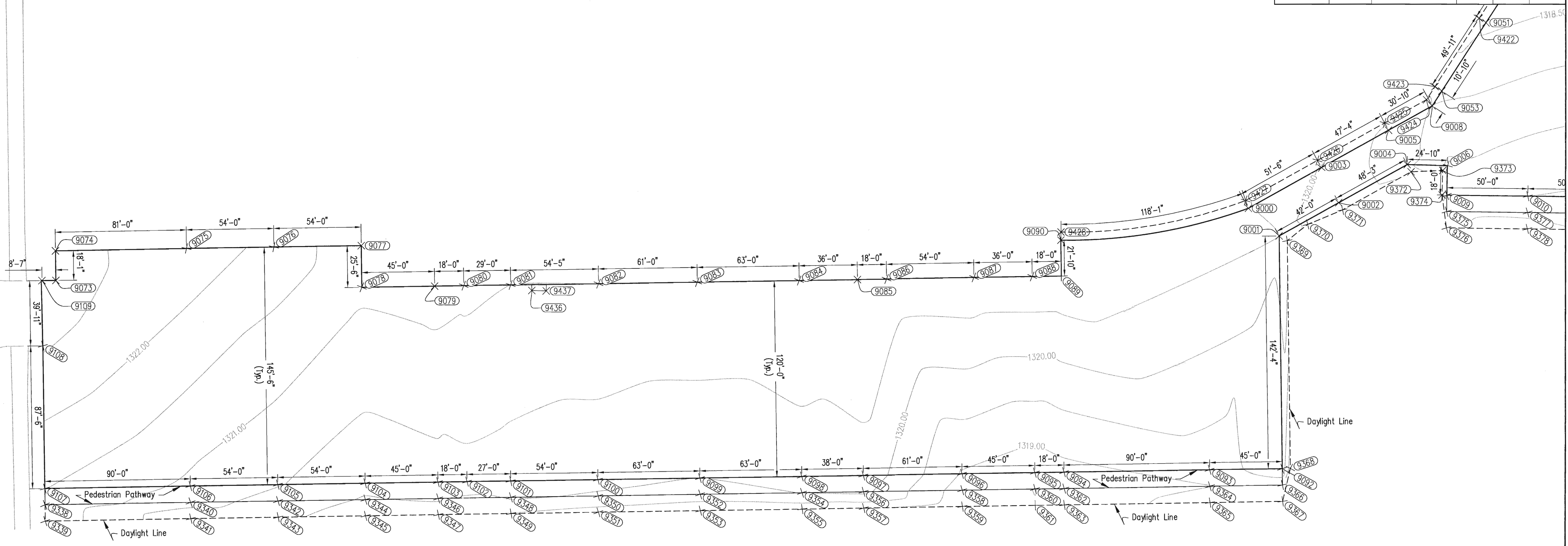
PREPARED BY
SEDGWICK COUNTY PUBLIC WORKS
HIGHWAY DEPARTMENT

DAVID C. SPEARS, P.E. DIRECTOR/COUNTY ENGINEER

REVISED	SCALE	DESIGNED	DRAWN	CHECKED	4
	1"=30'	L.T.P.	J.R.W.	L.T.P.	
	DATE	5/2013	5/2013	6/2013	

DWG: SCP-1.dwg

COUNTY	STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
SEDGWICK	KANSAS	SCP-1	2013	6	39



Point #	Elevation	Northing	Easting	Description
9000	1320.59	1695578.61	1623793.22	Spot
9001	1320.50	1695561.72	1623812.32	Spot
9002	1319.97	1695581.93	1623849.11	Spot
9003	1319.97	1695603.39	1623838.33	Spot
9073	1322.60	1695535.54	1623056.23	Spot
9074	1322.60	1695553.62	1623055.96	Spot
9075	1322.35	1695554.83	1623136.96	Spot
9076	1321.84	1695555.63	1623190.95	Spot
9077	1321.15	1695556.43	1623244.94	Spot
9078	1321.10	1695530.95	1623245.32	Spot
9079	1321.20	1695531.62	1623290.32	Spot
9080	1321.12	1695531.89	1623308.32	Spot
9081	1321.00	1695532.32	1623337.31	Spot
9082	1321.00	1695533.13	1623391.70	Spot
9083	1321.00	1695534.04	1623452.69	Spot
9084	1321.00	1695534.97	1623515.68	Spot
9085	1320.93	1695535.51	1623551.68	Spot
9086	1320.90	1695535.78	1623569.68	Spot
9087	1320.90	1695536.58	1623623.67	Spot
9088	1320.90	1695537.12	1623659.67	Spot

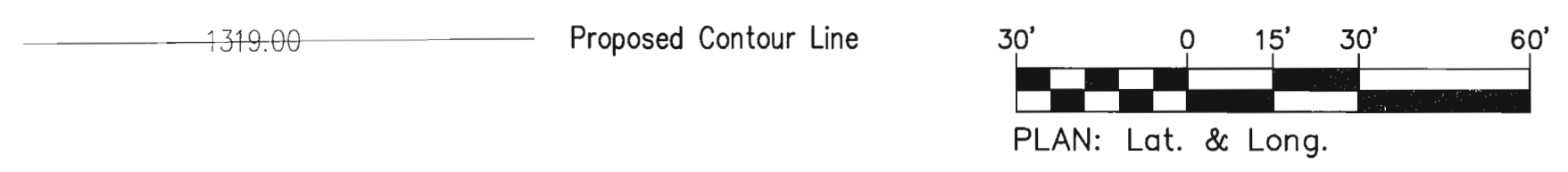
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9089	1320.90	1695537.39	1623677.66	Spot
9090	1321.00	1695559.22	1623677.34	Spot
9092	1319.84	1695419.41	1623814.44	Spot
9093	1319.20	1695418.74	1623769.44	Spot
9094	1318.85	1695417.40	1623679.45	Spot
9095	1318.70	1695417.13	1623661.45	Spot
9096	1318.96	1695416.46	1623616.46	Spot
9097	1320.34	1695415.55	1623555.46	Spot
9098	1320.22	1695414.99	1623517.47	Spot
9099	1320.00	1695414.05	1623454.48	Spot
9100	1320.15	1695413.11	1623391.48	Spot
9101	1320.28	1695412.31	1623337.49	Spot
9102	1320.35	1695411.91	1623310.49	Spot
9103	1320.30	1695411.64	1623292.49	Spot
9104	1320.16	1695410.97	1623247.50	Spot
9105	1320.53	1695410.16	1623193.50	Spot
9106	1320.90	1695409.36	1623139.51	Spot
9107	1321.51	1695408.02	1623049.52	Spot
9108	1322.55	1695495.54	1623048.22	Spot
9109	1322.68	1695535.49	1623047.62	Spot

Point #	Elevation	Northing	Easting	Description
9338	1321.34	1695398.02	1623049.67	10' Offset
9339	1321.31	1695388.02	1623049.82	20' Daylight
9340	1320.69	1695399.36	1623139.66	10' Offset
9341	1320.11	1695389.36	1623139.81	20' Daylight
9342	1320.32	1695400.17	1623193.65	10' Offset
9343	1320.12	1695390.17	1623193.80	20' Daylight
9344	1319.95	1695400.97	1623247.65	10' Offset
9345	1319.72	1695390.97	1623247.80	20' Daylight
9346	1320.09	1695401.64	1623292.64	10' Offset
9347	1319.60	1695391.64	1623292.79	20' Daylight
9348	1320.07	1695402.31	1623337.64	10' Daylight
9349	1319.48	1695392.31	1623337.79	20' Offset
9350	1319.94	1695403.11	1623391.63	10' Offset
9351	1319.29	1695393.11	1623391.78	20' Daylight
9352	1319.79	1695404.05	1623454.62	10' Offset
9353	1319.14	1695394.05	1623454.77	20' Daylight
9354	1320.01	1695404.99	1623517.62	10' Offset
9355	1319.20	1695394.99	1623517.77	20' Daylight
9356	1320.13	1695405.55	1623555.61	10' Offset
9357	1319.14	1695395.55	1623555.76	20' Daylight

Point #	Elevation	Northing	Easting	Description
9358	1318.75	1695406.46	1623616.61	10' Offset
9359	1318.64	1695396.46	1623616.75	20' Daylight
9360	1318.49	1695407.13	1623661.60	10' Offset
9361	1318.52	1695397.13	1623661.75	20' Daylight
9362	1318.64	1695407.40	1623679.60	10' Offset
9363	1318.73	1695397.40	1623679.75	20' Daylight
9364	1318.99	1695408.74	1623769.59	10' Offset
9365	1319.20	1695398.74	1623769.74	20' Daylight
9366	1319.19	1695409.41	1623814.58	10' Offset
9367	1319.11	1695399.41	1623814.73	20' Daylight
9368	1318.76	1695419.48	1623819.43	5' Daylight
9369	1320.15	1695558.78	1623817.36	Daylight
9370	1319.88	1695568.75	1623829.95	Daylight
9371	1319.98	1695577.54	1623851.52	Daylight
9426	1320.15	1695607.77	1623835.93	5' Daylight
9427	1320.56	1695583.38	1623791.51	5' Daylight
9428	1320.75	1695564.22	1623677.40	5' Daylight
9430	0.00	1695890.00	1623681.55	Radius Center Pt.
9436	1321.20	1695528.90	1623350.36	Ex. Conc.
9437	1321.17	1695528.77	1623359.33	Ex. Conc.

- NOTES:**
- Spot points reference concrete surface elevations.
 - Offset points reference grading offsets for the proposed pedestrian paths.
 - Daylight points reference location of proposed match point with existing ground.
 - Existing concrete points indicates location and elevation of match points.

LEGEND



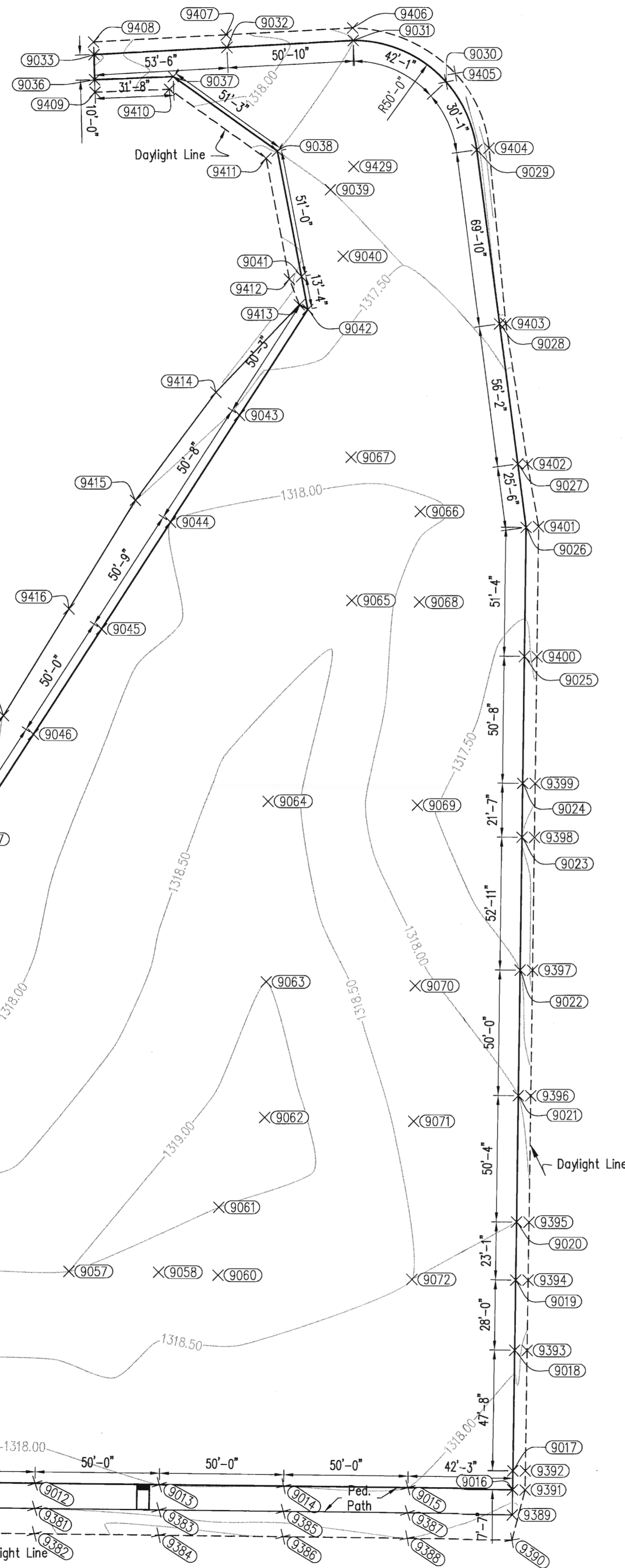
**West Sedgwick County Park Improvements
Construction Layout
and Grading Plan
Lot "A"**

PREPARED BY
SEDGWICK COUNTY PUBLIC WORKS
HIGHWAY DEPARTMENT

DAVID C. SPEARS, P.E.				DIRECTOR/COUNTY ENGINEER
REVISED	SCALE	DESIGNED	DRAWN	CHECKED
	1" = 30'	L.T.P.	J.R.W.	L.T.P.
	DATE	5/2013	5/2013	5/2013

SHEET NO.
6

Device: DMFX EPlot (XPS Compatible).pc3 Page Setup: 1050C 36x22 Mono Final By: Packer, Lynn T. O:\Projects\Sedgwick County Sports Complex\SCP-1.dwg Layout: Grading Plan Lot A Plotted: 6/9/2013 9:21 PM



Point #	Elevation	Northing	Easting	Description
9004	1319.13	1695605.14	1623891.37	Spot
9005	1319.37	1695626.18	1623879.82	Spot
9006	1318.37	1695604.48	1623916.43	Spot
9008	1319.00	1695641.00	1623906.81	Spot
9009	1318.00	1695586.48	1623915.95	Spot
9010	1318.00	1695585.84	1623965.95	Spot
9011	1317.90	1695585.20	1624015.94	Spot
9012	1317.80	1695584.55	1624065.94	Spot
9013	1318.00	1695583.91	1624115.93	Spot
9014	1318.00	1695583.27	1624165.93	Spot
9015	1318.00	1695582.63	1624215.92	Spot
9016	1317.60	1695582.08	1624258.14	Spot
9017	1317.67	1695589.63	1624258.15	Spot
9018	1318.08	1695637.33	1624258.85	Spot
9019	1318.28	1695665.37	1624259.21	Spot
9020	1318.50	1695688.45	1624259.50	Spot
9021	1318.00	1695738.78	1624260.15	Spot
9022	1317.50	1695788.81	1624260.79	Spot
9023	1317.00	1695841.68	1624261.47	Spot
9024	1317.14	1695863.29	1624261.75	Spot
9025	1317.42	1695913.94	1624262.40	Spot
9026	1317.70	1695965.29	1624263.06	Spot
9027	1317.60	1695990.54	1624259.71	Spot
9028	1317.45	1696046.24	1624252.31	Spot
9029	1317.25	1696115.49	1624243.12	Spot

Point #	Elevation	Northing	Easting	Description
9030	1317.10	1696142.41	1624230.67	Spot
9031	1317.50	1696158.91	1624193.29	Spot
9032	1318.50	1696156.29	1624142.50	Spot
9033	1319.10	1696153.53	1624089.08	Spot
9036	1318.88	1696143.57	1624089.33	Spot
9037	1318.25	1696144.76	1624120.94	Spot
9038	1317.50	1696115.18	1624162.84	Spot
9039	1317.50	1696099.61	1624184.20	Spot
9040	1317.45	1696073.11	1624189.34	Spot
9041	1317.50	1696065.09	1624172.57	Spot
9042	1317.30	1696052.01	1624175.11	Spot
9043	1317.80	1696009.95	1624147.65	Spot
9044	1318.00	1695967.52	1624119.95	Spot
9045	1317.80	1695925.00	1624092.20	Spot
9046	1317.80	1695883.14	1624064.87	Spot
9047	1317.60	1695841.27	1624037.54	Spot
9048	1317.42	1695801.37	1624011.50	Spot
9049	1317.75	1695763.39	1623986.70	Spot
9050	1317.90	1695735.37	1623968.41	Spot
9051	1318.40	1695691.82	1623939.98	Spot
9053	1318.90	1695650.04	1623912.71	Spot
9055	1319.00	1695670.52	1624019.39	Spot
9056	1318.50	1695634.52	1624019.02	Spot
9057	1319.00	1695668.93	1624079.38	Spot
9058	1318.74	1695668.56	1624115.37	Spot

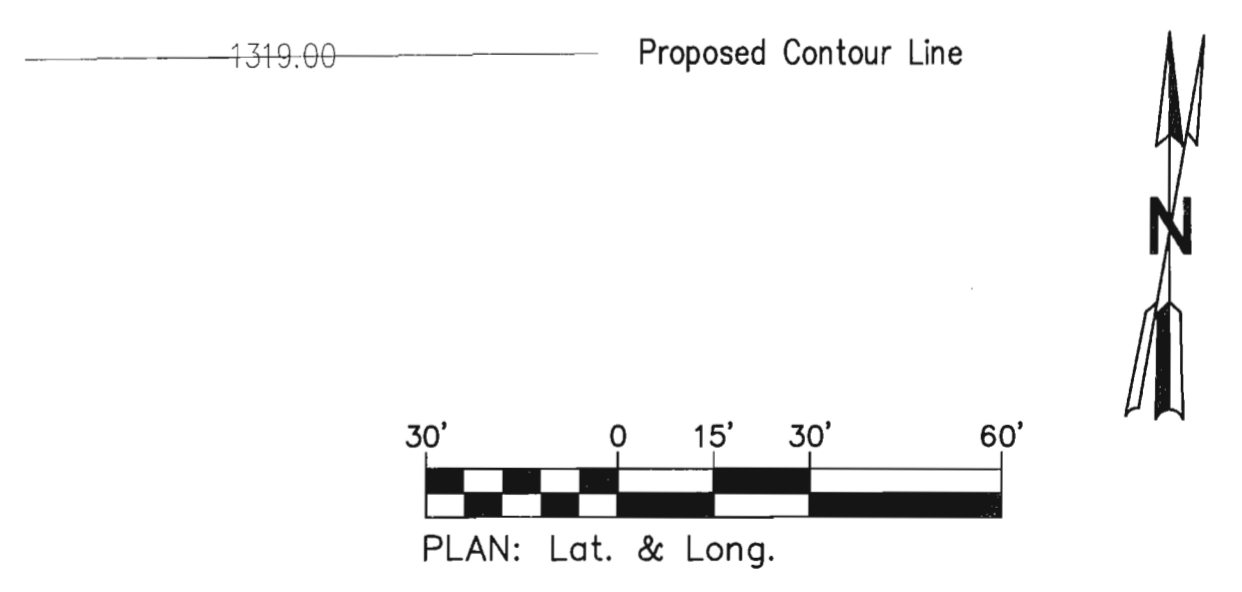
Point #	Elevation	Northing	Easting	Description
9060	1318.75	1695667.33	1624139.36	Spot
9061	1319.00	1695694.33	1624139.64	Spot
9062	1319.50	1695730.15	1624158.00	Spot
9063	1319.00	1695784.15	1624158.55	Spot
9064	1318.75	1695856.14	1624159.29	Spot
9065	1318.42	1695936.20	1624192.82	Spot
9066	1318.10	1695971.54	1624220.47	Spot
9067	1317.90	1695993.11	1624192.58	Spot
9068	1317.75	1695935.54	1624220.10	Spot
9069	1317.60	1695854.55	1624219.28	Spot
9070	1318.12	1695782.55	1624218.54	Spot
9071	1318.37	1695728.55	1624217.99	Spot
9072	1318.50	1695665.56	1624217.35	Spot
9372	1319.39	1695600.76	1623893.78	Daylight
9373	1318.45	1695601.56	1623913.35	Daylight
9374	1318.11	1695586.56	1623912.95	Daylight
9375	1317.80	1695576.48	1623915.82	10' Offset
9376	1317.66	1695566.48	1623915.69	20' Daylight
9377	1317.80	1695575.84	1623965.82	10' Offset
9378	1316.96	1695565.84	1623965.69	20' Daylight
9379	1317.70	1695575.20	1624015.81	10' Offset
9380	1317.78	1695565.20	1624015.68	20' Daylight
9381	1317.60	1695574.56	1624065.81	10' Offset
9382	1317.71	1695564.56	1624065.68	20' Daylight
9383	1317.80	1695573.91	1624115.80	10' Offset

Point #	Elevation	Northing	Easting	Description
9384	1316.55	1695563.91	1624115.68	20' Daylight
9385	1317.80	1695573.27	1624165.80	10' Offset
9386	1317.14	1695563.27	1624165.67	20' Daylight
9387	1317.80	1695572.63	1624215.80	10' Offset
9388	1317.51	1695562.63	1624215.67	20' Daylight
9389	1317.40	1695572.09	1624258.01	10' Offset
9390	1317.17	1695562.09	1624257.88	20' Daylight
9391	1317.64	1695582.02	1624263.14	5' Daylight
9392	1317.80	1695589.56	1624263.23	5' Daylight
9393	1317.93	1695637.26	1624263.85	5' Daylight
9394	1318.17	1695665.30	1624264.21	5' Daylight
9395	1318.13	1695688.39	1624264.50	5' Daylight
9396	1317.66	1695738.71	1624265.15	5' Daylight
9397	1316.86	1695788.74	1624265.79	5' Daylight
9398	1316.79	1695841.62	1624266.47	5' Daylight
9399	1317.11	1695863.23	1624266.75	5' Daylight
9400	1317.58	1695913.87	1624267.40	5' Daylight
9401	1317.62	1695965.59	1624268.06	5' Daylight
9402	1317.60	1695990.52	1624263.58	Daylight
9403	1317.45	1696046.41	1624254.82	Daylight
9404	1318.35	1696116.15	1624248.07	Daylight
9405	1317.11	1696145.76	1624234.38	Daylight
9406	1317.37	1696163.91	1624193.03	5' Daylight
9407	1318.14	1696161.28	1624142.24	5' Daylight
9408	1318.65	1696158.52	1624088.82	5' Daylight

Point #	Elevation	Northing	Easting	Description
9409	1318.86	1696138.57	1624089.52	5' Daylight
9410	1318.21	1696139.70	1624119.44	5' Daylight
9411	1317.37	1696112.26	1624158.31	5' Daylight
9412	1316.80	1696064.13	1624167.66	5' Daylight
9413	1317.28	1696053.86	1624171.71	10' Daylight
9414	1317.02	1696019.13	1624138.15	10' Daylight
9415	1317.49	1695976.25	1624105.84	10' Daylight
9416	1317.54	1695933.10	1624079.12	10' Daylight
9417	1317.51	1695890.60	1624052.81	10' Daylight
9418	1317.22	1695849.27	1624026.32	10' Daylight
9419	1317.41	1695812.15	1623998.14	10' Daylight
9420	1317.88	1695779.49	1623969.64	10' Daylight
9421	1317.70	1695738.10	1623964.23	5' Daylight
9422	1318.15	1695694.55	1623935.80	5' Daylight
9423	1318.87	1695652.78	1623908.53	5' Daylight
9424	1319.04	1695644.78	1623903.31	5' Daylight
9425	1319.54	1695630.56	1623877.41	5' Daylight
9429	1317.38	1696108.91	1624193.55	Radius Center Pt.

- NOTES:**
- Spot points reference concrete surface elevations.
 - Offset points reference grading offsets for the proposed pedestrian paths.
 - Daylight points reference location of proposed match point with existing ground.

LEGEND



**West Sedgwick County Park Improvements
Construction Layout
and Grading Plan**
Lot "B"

PREPARED BY
SEDGWICK COUNTY PUBLIC WORKS
HIGHWAY DEPARTMENT

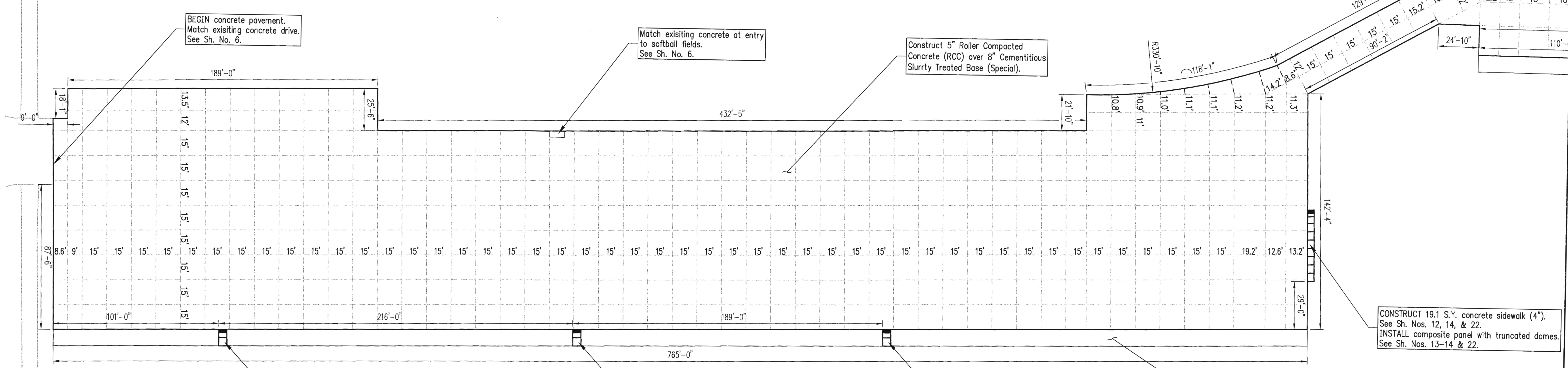
DAVID C. SPEARS, P.E. DIRECTOR/COUNTY ENGINEER

REVISED	SCALE	DESIGNED	DRAWN	CHECKED	SHEET NO.
	1"=30'	L.T.P.	J.R.W.	L.T.P.	7
	DATE	5/2013	5/2013	5/2013	

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COUNTY	STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
SEDGWICK	KANSAS	SCP-1	2013	8	39



BEGIN concrete pavement.
Match existing concrete drive.
See Sh. No. 6.

Match existing concrete at entry
to softball fields.
See Sh. No. 6.

Construct 5" Roller Compacted
Concrete (RCC) over 8" Cementitious
Slurry Treated Base (Special).

CONSTRUCT 19.1 S.Y. concrete sidewalk (4").
See Sh. Nos. 12, 14, & 22.
INSTALL composite panel with truncated domes.
See Sh. Nos. 13-14 & 22.

CONSTRUCT 5.6 S.Y. concrete sidewalk (4").
See Sh. Nos. 12, 14, & 22.
INSTALL composite panel with truncated domes.
See Sh. Nos. 13-14 & 22.

CONSTRUCT 5.6 S.Y. concrete sidewalk (4").
See Sh. Nos. 12, 14, & 22.
INSTALL composite panel with truncated domes.
See Sh. Nos. 13-14 & 22.

CONSTRUCT 5.6 S.Y. concrete sidewalk (4").
See Sh. Nos. 12, 14, & 22.
INSTALL composite panel with truncated domes.
See Sh. Nos. 13-14 & 22.

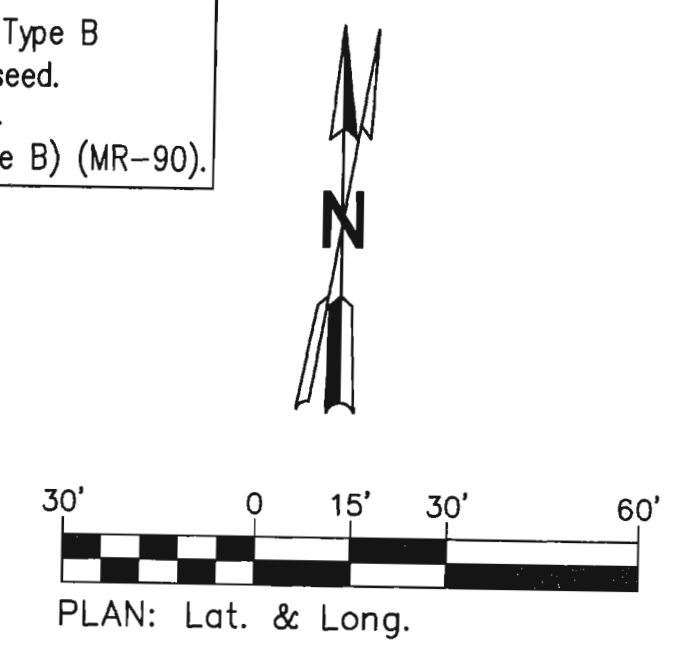
Construct 765' x 10' pedestrian
pathway (unpaved). Compact to Type B
(MR-90) specifications. Do not seed.
See Sh. No. 2 for typical details.
SUBSIDIARY to Compaction (Type B) (MR-90).

LEGEND

----- Control Joint

NOTES:

- All joints shown are assumed control joints for RCC pavement. Saw cut control joints to 1/4 depth of the compacted RCC pavement.
- See Sh. No. 10 for joint details to be used with conventional concrete pavement areas.
- Location of any conventional concrete pavement areas to be determined in the field.
- A cold vertical joint is made when either side of the joint is not compacted within 60 minutes of plant mixing. Saw cut the edge of previous lane back to sound RCC (minimum 6") to form a vertical face prior to placing the next pass. All cold joints shall be sealed with an approved epoxy type sealant.
- Seal all joints abutting existing pavement with an approved epoxy type sealant.



**West Sedgwick County Park Improvements
Pavement Plan
Lot "A"**

PREPARED BY
SEDGWICK COUNTY PUBLIC WORKS
HIGHWAY DEPARTMENT

DAVID C. SPEARS, P.E. DIRECTOR/COUNTY ENGINEER

REVISED	SCALE	DESIGNED	DRAWN	CHECKED	SHEET NO.
	1"=30'	L.T.P.	J.R.W.	L.T.P.	8
	DATE	5/2013	5/2013	6/2013	

DWG: SCP-1.dwg

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COUNTY	STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
SEDGWICK	KANSAS	SCP-1	2013	9	39

END construction.
Match existing ground.
See Sh. No. 7.

CONSTRUCT 345' x Var. Width pedestrian pathway (unpaved). Compact to Type B (MR-90) specifications. Do not seed. See Sh. No. 2 for typical details. SUBSIDIARY to Compaction (Type B) (MR-90).

CONSTRUCT 5" concrete sidewalk eradicated by sanitary sewer construction operations. Extend to match proposed RCC pavement See Sh. Nos. 14 & 17 for details.

Construct 5" Roller Compacted Concrete (RCC) pavement over 8" Cementitious Slurry Treated Base (Special)

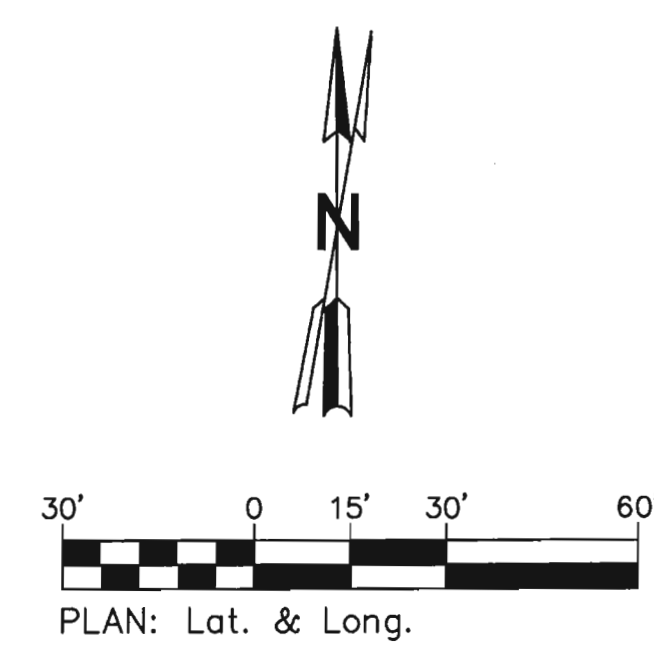
CONSTRUCT 5.6 S.Y. concrete sidewalk (4"). INSTALL composite panel with truncated domes. See Sh. Nos. 13-14 & 22.

CONSTRUCT 5.6 S.Y. concrete sidewalk (4"). See Sh. Nos. 12, 14, & 22. INSTALL composite panel with truncated domes. See Sh. Nos. 13-14 & 22.

CONSTRUCT 342' x 10' pedestrian pathway (unpaved). Compact to Type B (MR-90) specifications. Do not seed. See Sh. No. 2 for typical details. SUBSIDIARY to Compaction (Type B) (MR-90).

LEGEND
----- Control Joint

- NOTES:
- All joints shown are assumed control joints for RCC pavement. Saw cut control joints to 1/4 depth of the compacted RCC pavement.
 - See Sh. No. 10 for joint details to be used with conventional concrete pavement areas.
 - Location of any conventional concrete pavement areas to be determined in the field.
 - A cold vertical joint is made when either side of the joint is not compacted within 60 minutes of plant mixing. Saw cut the edge of previous lane back to sound RCC (minimum 6") to form a vertical face prior to placing the next pass. All cold joints shall be sealed with an approved epoxy type sealant.
 - Seal all joints abutting existing pavement with an approved epoxy type sealant.



West Sedgwick County Park Improvements Pavement Plan "Lot B"

PREPARED BY
SEDGWICK COUNTY PUBLIC WORKS
HIGHWAY DEPARTMENT

DAVID C. SPEARS, P.E.	DIRECTOR/COUNTY ENGINEER				
REVISED	SCALE	DESIGNED	DRAWN	CHECKED	SHEET NO.
	1"=30'	L.T.P.	J.R.W.	L.T.P.	9
	DATE	5/2013	5/2013	5/2013	

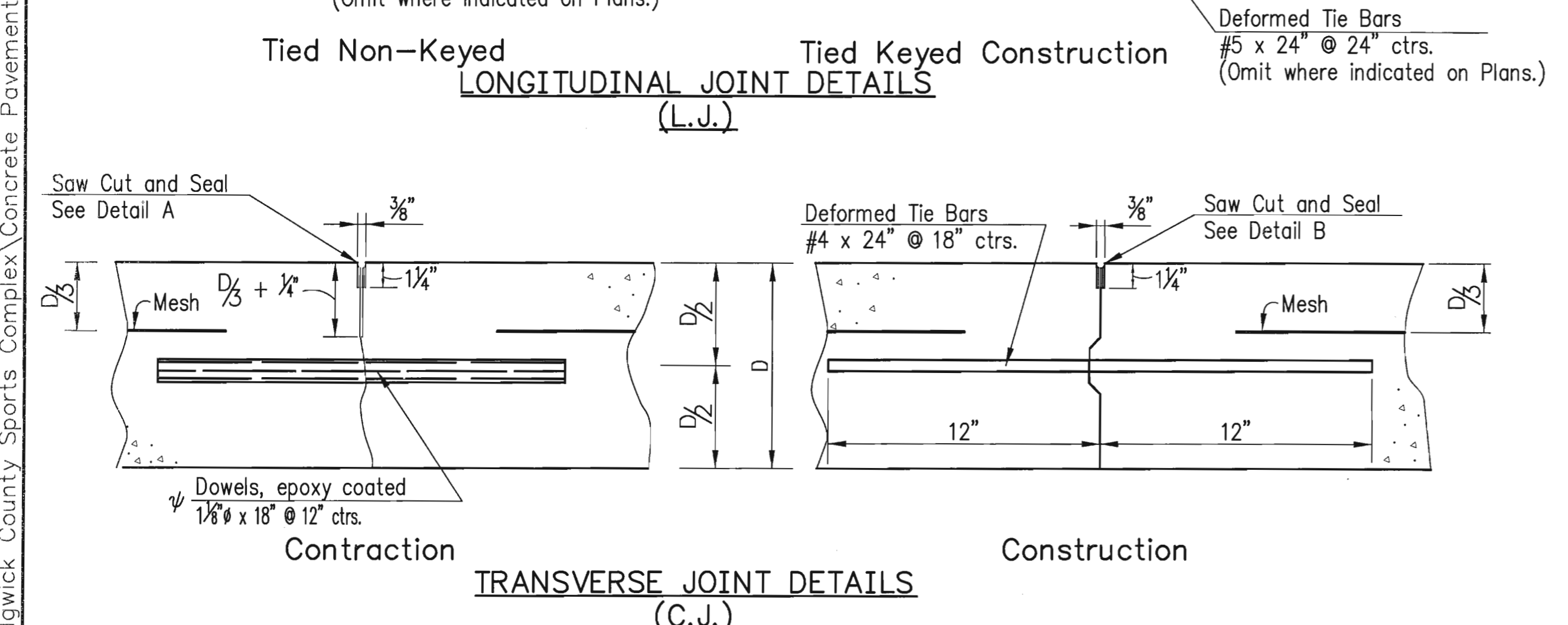
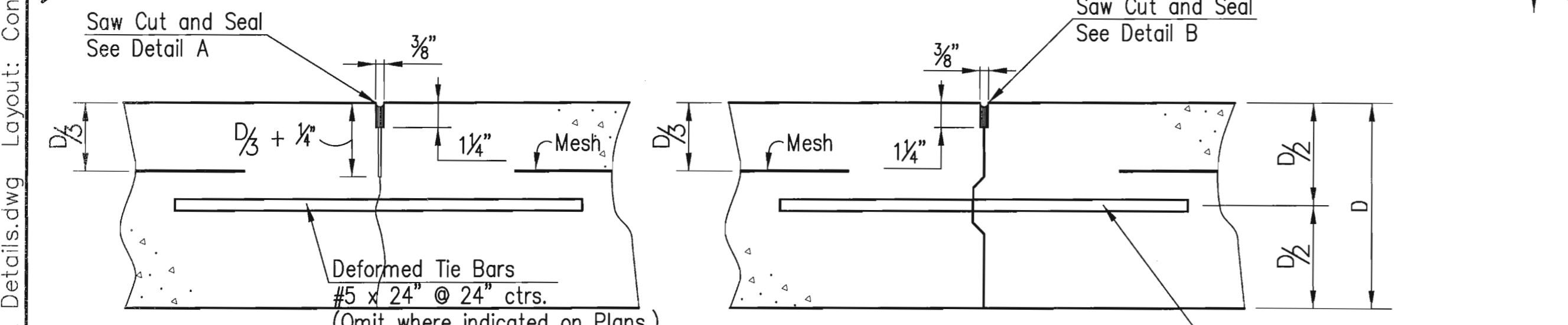
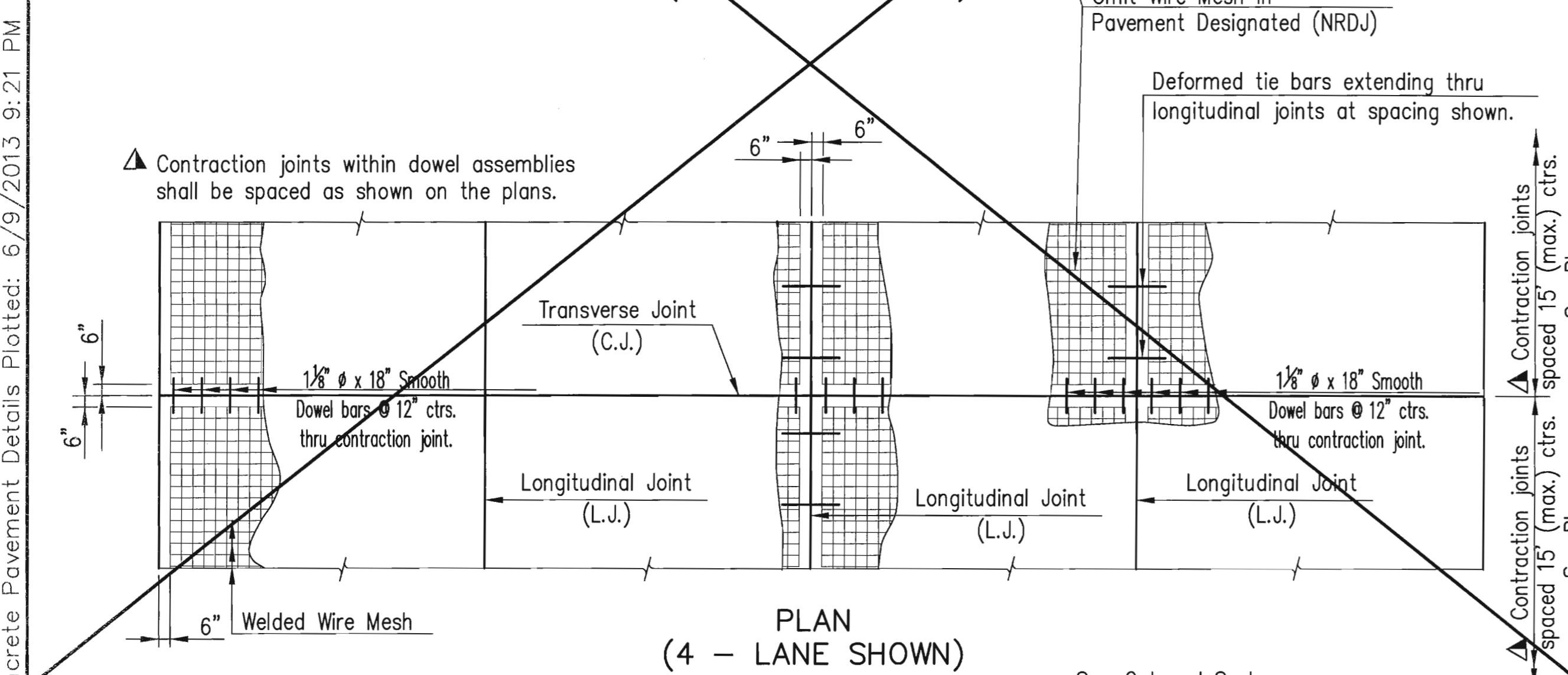
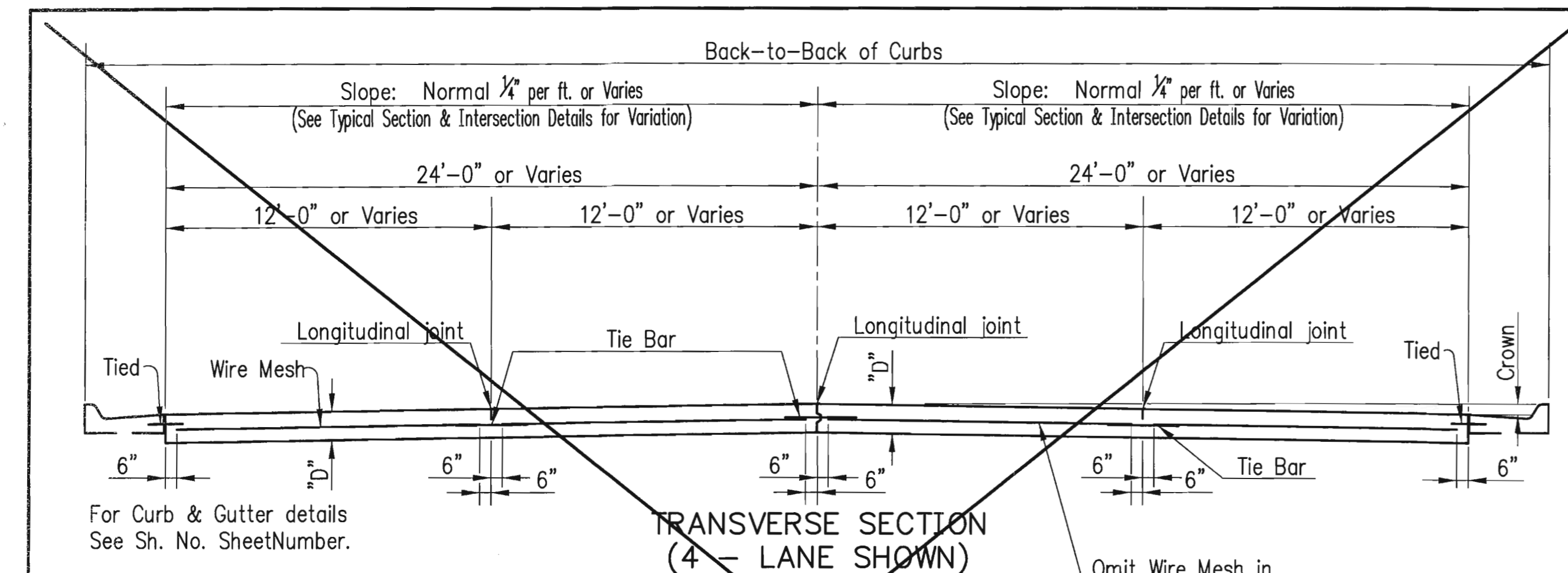
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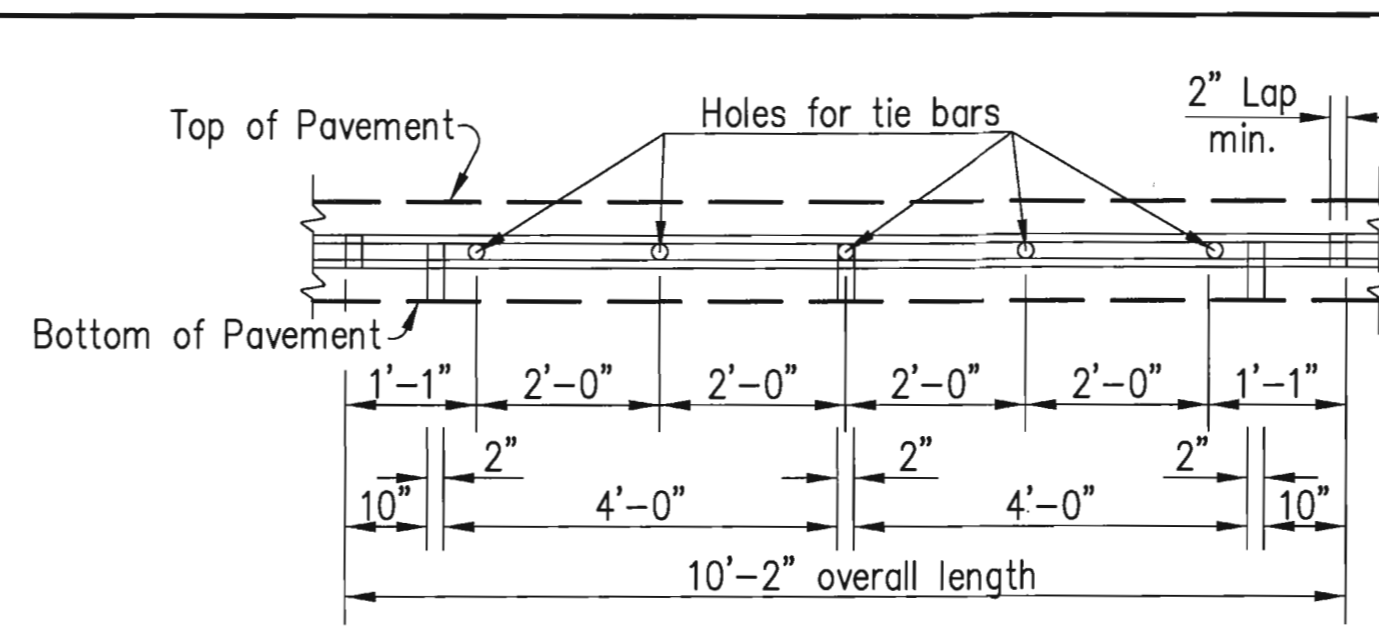
COUNTY	STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
SEDGWICK	KANSAS	SCP-1	2013	10	39

GENERAL NOTE

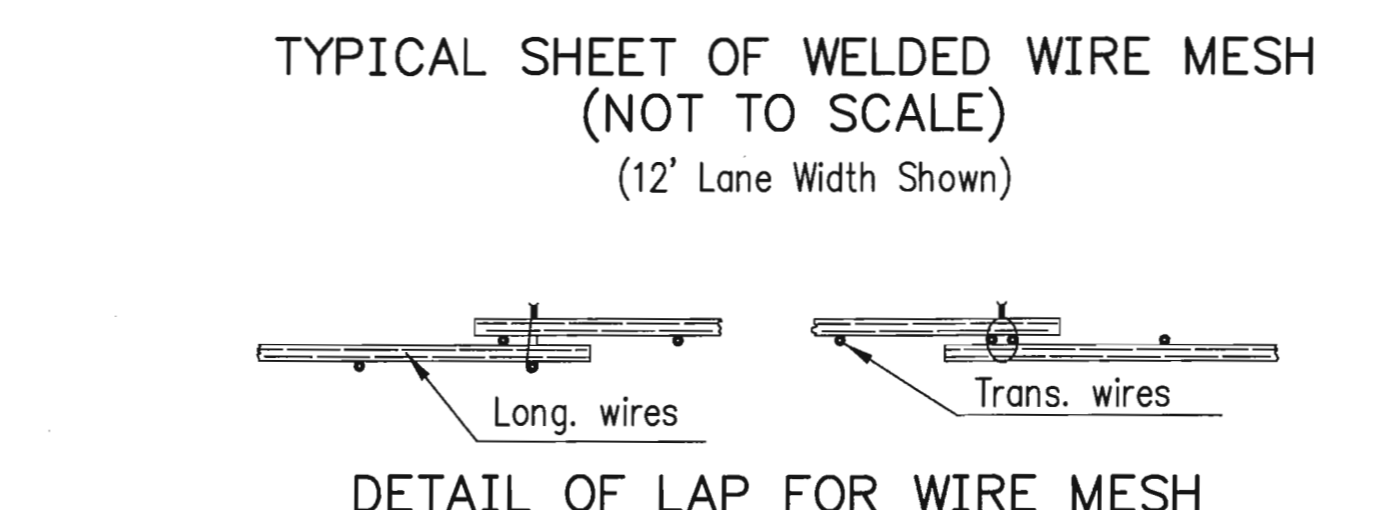
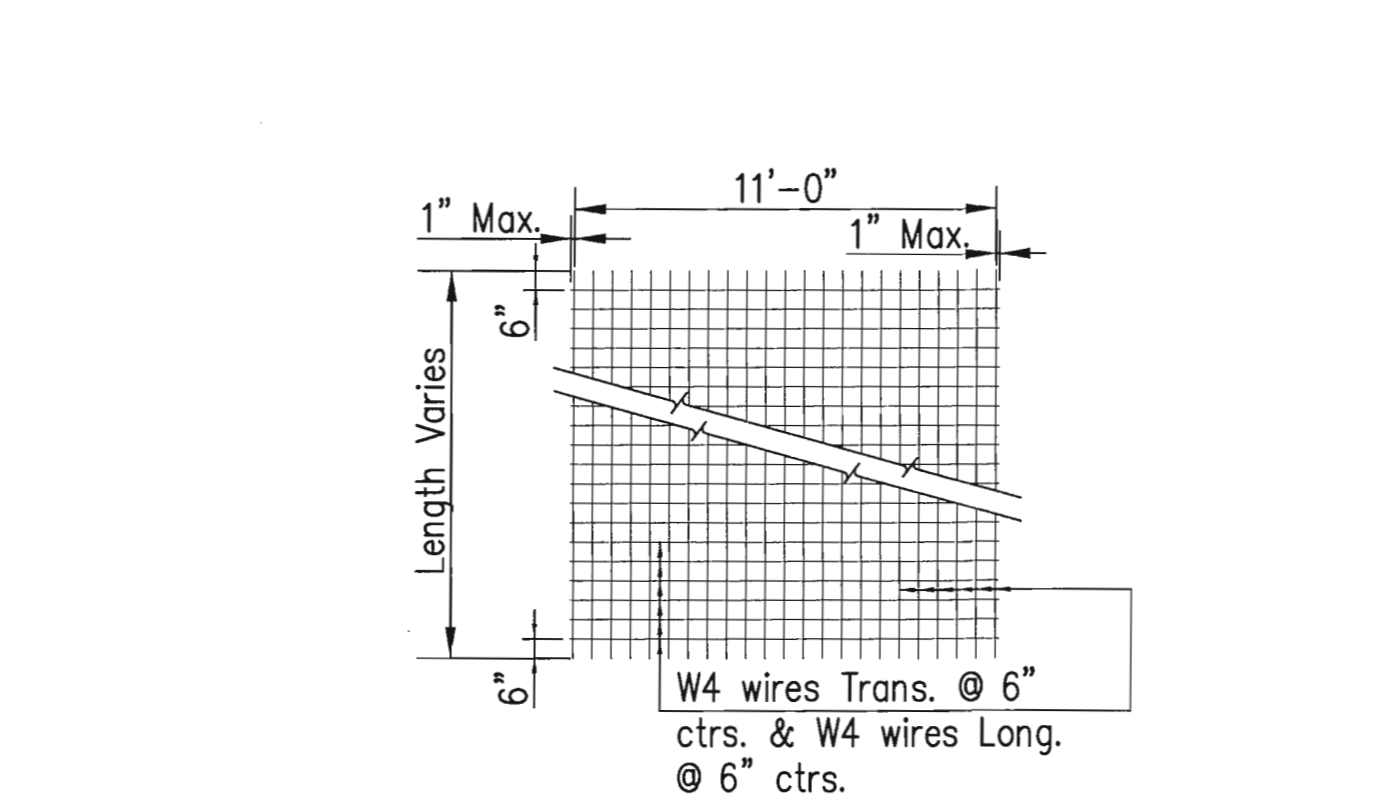
All deformed tie bars shall be epoxy coated. Any damage to the epoxy coating shall be patched in accordance with the Standard Specifications.
 Deformed tie bars which require bending shall be billet steel reinforcing bars, Grade 40 and may or may not be epoxy coated.
 Tie bars shall be placed parallel to the pavement surface with a tolerance of 1/2" in 18" in the vertical direction. Care should be taken to assure that tie bars are placed approximately perpendicular to the joint in the horizontal plane.
 Unless otherwise noted, load transfer devices as shown in detail shall be used at all contraction joints in conventional concrete pavement.
 Unless otherwise noted, all joints in conventional concrete pavement shall have either dowels or tie bars. Roller Compacted Concrete (RCC) does not require use of dowels or tie bars.
 All cold joints on this project shall be sawed and filled with epoxy type sealant.
 Shape of all keyed joints shall be similar to the section of recessed form leg as shown on this sheet.
 At each transverse joint location, a 4" to 6" wide strip of pavement surface shall be protected from the texturing operation to provide a transverse textureless surface centered over the joint saw cut.



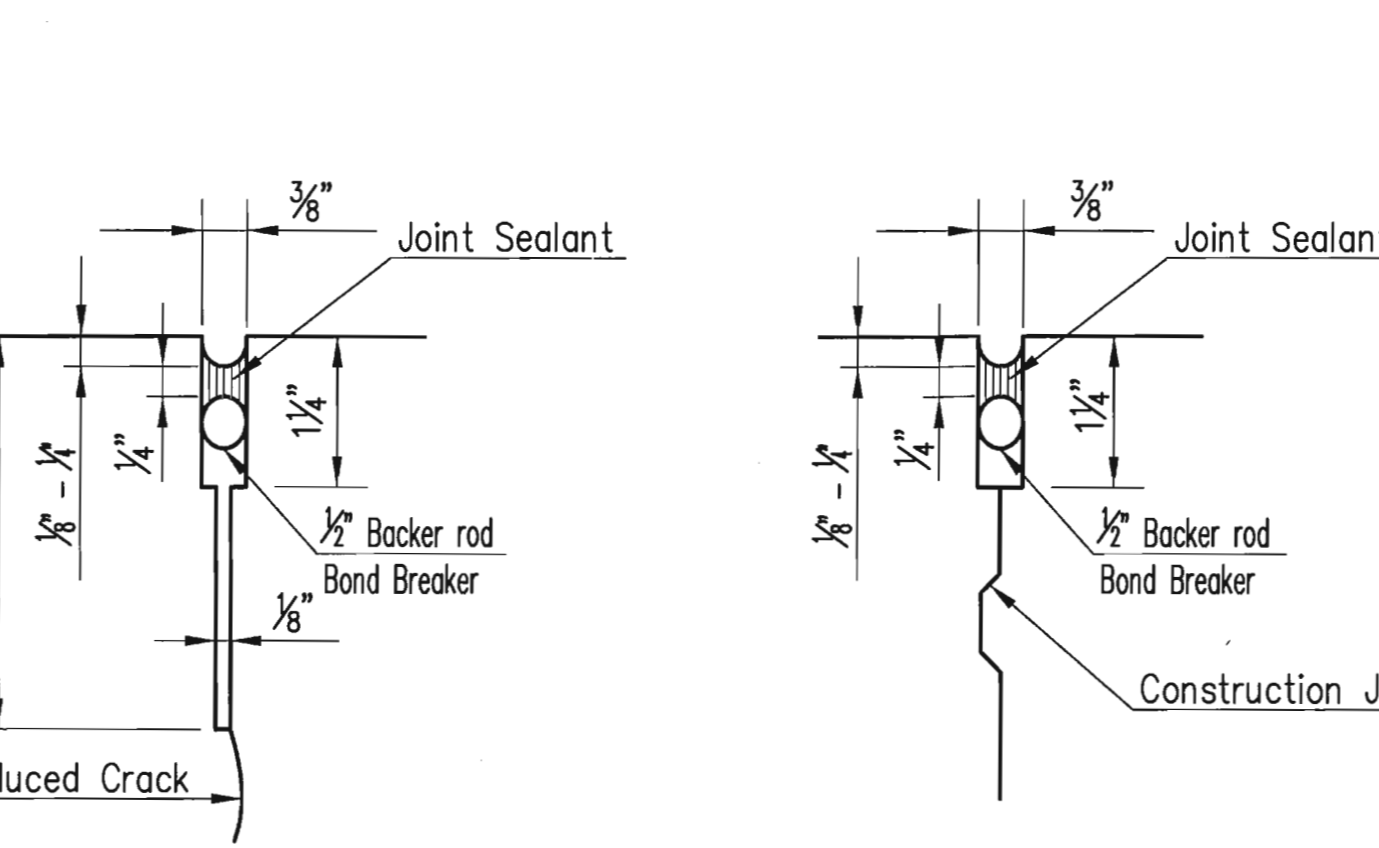
Note: Contraction joints will be constructed at the planned location or as directed by the Engineer. No transverse construction joint shall be placed within ten (10) feet of a contraction joint.
 Note: A construction joint is required when the concrete placement has been interrupted for a substantial length of time or at the end of a days placement.



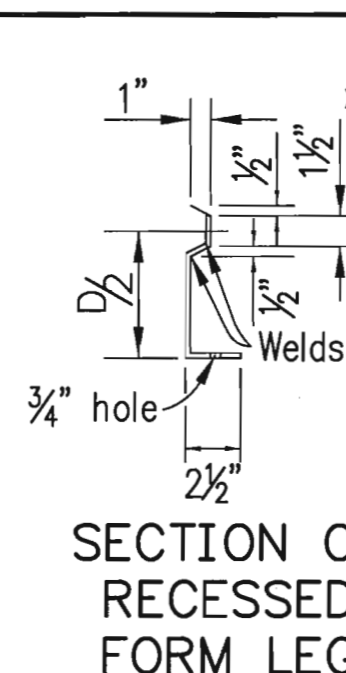
To be used only against forms. Shall not extend through contraction joints
 Snap-in leg or other approved designs may be used in lieu of welded leg.



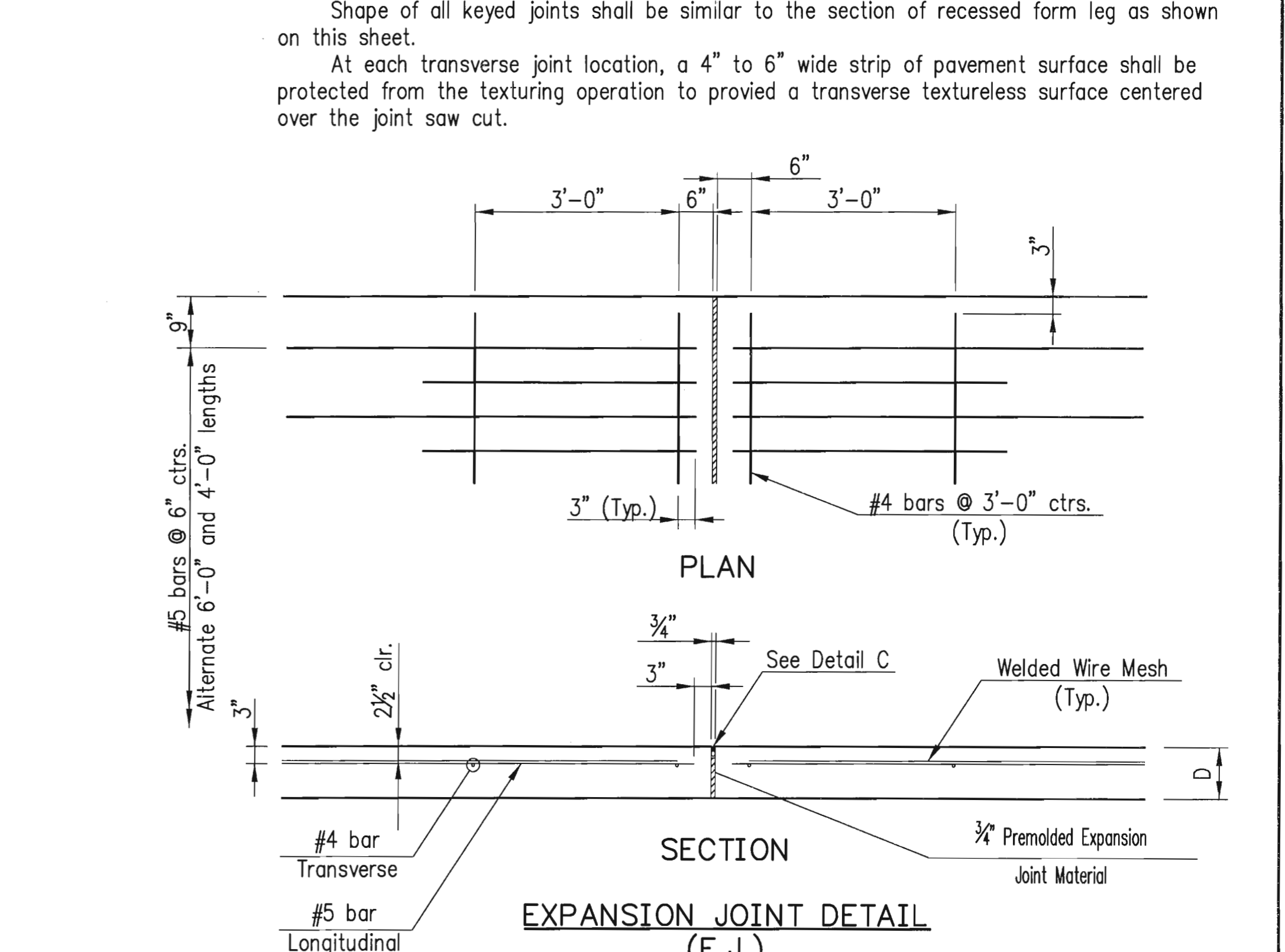
The lap shall extend beyond the first transverse or longitudinal wire of each sheet.
 The sheet shall be wired securely at the edges and at intervals not to exceed 2'-6" for the full width of the sheet. Approximate weight of wire mesh = .58 lbs. per 100 sq. ft. Other methods for fastening the sheets of wire mesh at the laps may be used with the approval of the Engineer.



The 1/8" saw cut (D/3 + 1/4" depth) shall be done initially; the 3/8" saw cut shall be accomplished in a separate operation after concrete has attained sufficient strength to avoid spalling as determined by the Engineer.
 Note: Joint Sealant shall be Hot Pour Type unless otherwise approved by the Engineer
 Note: All sealant shall be 1/8" - 1/4" below surface and a minimum 1/4" thick.



SECTION OF RECESSED FORM LEG



DOWEL SIZE	
D (in.)	Diameter
5	3/8"
8	1"
9	1 1/8"
10	1 1/4"
11	1 3/8"
12	1 1/2"

Use of dowels and bars referenced on this detail are limited to conventional concrete pavement. Roller Compacted Concrete (RCC) does not require use of dowels or tie bars.

West Sedgwick County Park Improvements
CONCRETE PAVEMENT
 PREPARED BY
 SEDGWICK COUNTY PUBLIC WORKS
 HIGHWAY DEPARTMENT
 DAVID C. SPEARS, P.E. DIRECTOR/COUNTY ENGINEER
 REVISED SCALE DESIGNED DRAWN CHECKED SHEET NO.
 NONE L.T.P. D.R.S. L.T.P.
 DATE 1/2008 1/2008 6/2013
 10
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STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	SCP-1	2013	11	39

GENERAL NOTE

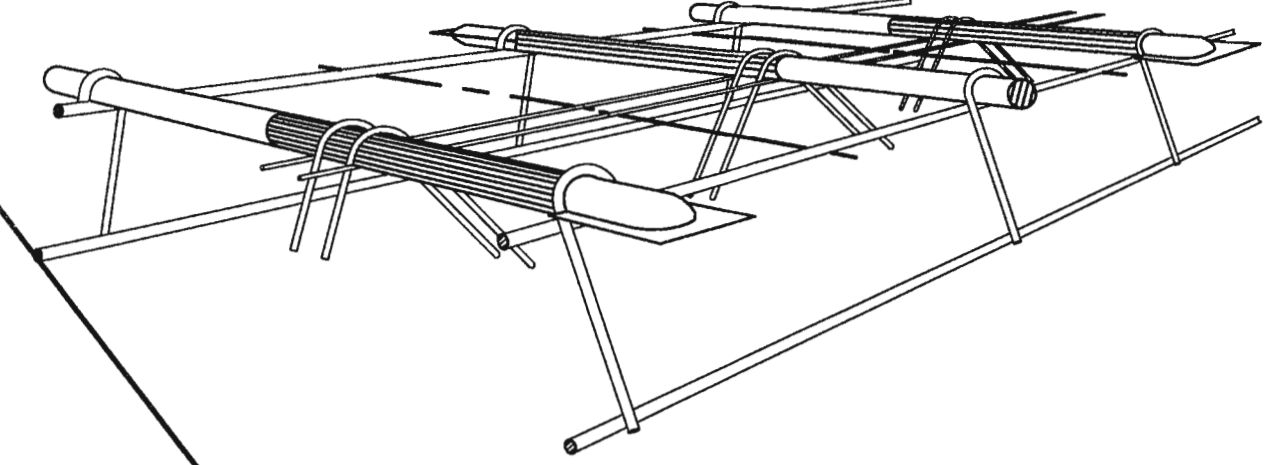
Dowel bar insertion may be by mechanical dowel placers regardless of the joint spacing.
 Each dowel bar shall be coated with an epoxy coating that meets the standard specifications. The coating material shall be a powdered epoxy resin approved by the Chief, Bureau of Materials and Research and shall be uniformly applied according to accepted practices and the resin manufacturer's recommendations. For Alt. 1 the coating need not be applied to the end faces of the bars and will not be required within 2" of the end which will be fixed in the supporting basket by welding.
 The cutting to length of the dowel bars shall be done in such a manner to result in no appreciable deformation of the ends.

Alt. 1 (Baskets)

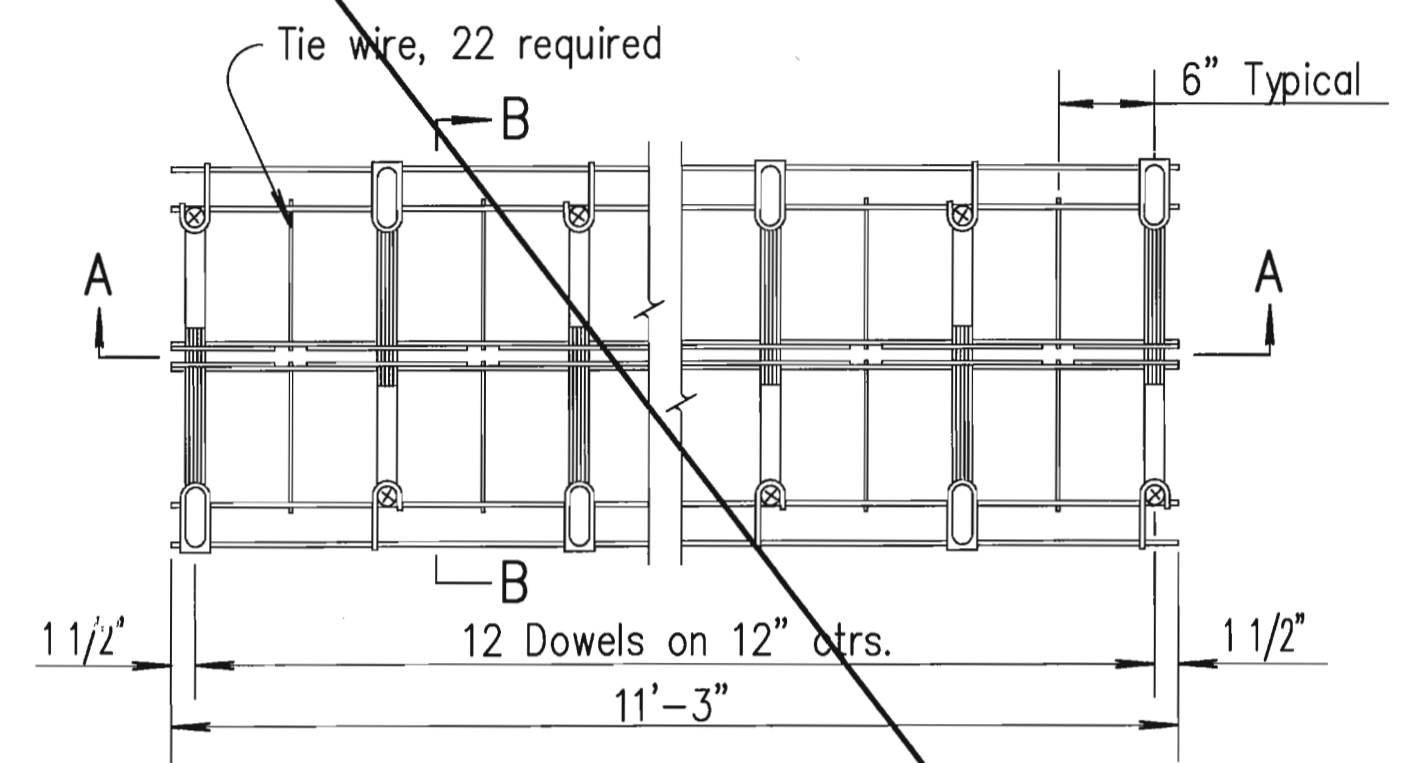
Wire sizes shown are minimum required.
 Basket to be staked to sub-grade, as shown. Ramset or similar type fastener with clip to be used when subgrade condition requires it.
 A string line shall be stretched between the pavement forms along the center line of the joint. The position of the joint shall be carefully marked so that the saw cut will coincide with the center line of the joint.
 In order to identify the location of the bond breaker application, the working end of dowel and the supporting leg shall receive a light application of red paint at the place of fabrication. The bond breaker to be applied in the field prior to concrete placement shall consist of coating approximately three-fifths of the length of each dowel bar with hard grease at the working end identified by the red paint.
 The entire joint assembly shall be carefully leveled so that the dowels are parallel to the slab surface and free to slide in the dowel holders. Any coating scraped off the dowels in assembling the joint shall be replaced.
 After the complete contraction joint is assembled, it shall be checked to be certain that the vertical plane of the joint will be perpendicular to the finished surface of the slab and at a right angle with the center line of the slab unless shown otherwise on the plans. The dowels shall be checked to be certain that they are level and will remain in a position parallel with the finished surface of the slab.
 Concrete shall be placed over and adjacent to the joint in accordance with the requirements of the Specifications.
 Other approved designs may be used in lieu of the type shown.

Alt. 2 (Mechanical placement)

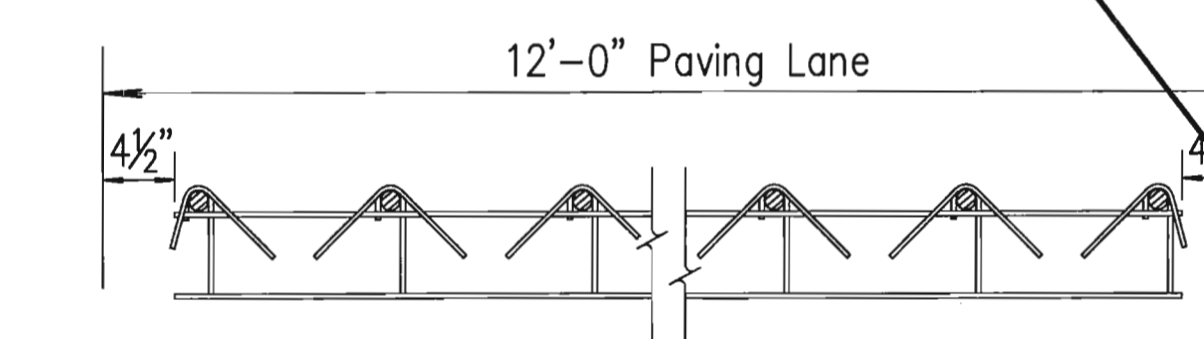
Joint spacing shall be normal to centerline.
 The pavement shall be placed and consolidated to full depth prior to insertion of the dowel bars.
 The dowel bars shall be coated with a bond breaking agent prior to insertion into the plastic concrete.
 The dowel bars shall be inserted into the plastic concrete ahead of the finishing beam or screed.
 The installing device shall consolidate the concrete around the dowel bars such that no voids exist, without the supplemental use of hand held vibrators.
 The dowel bars shall be located within one inch of the planned transverse location and within the range of $D/2 \pm 0.1 D$ measured from mid depth and mid length of the bar where D represents the pavement thickness.
 The dowel bars shall be located within two inches of the planned longitudinal location.
 The dowel bars shall be parallel to the pavement surface and centerline within a tolerance of one half inch in 18 inches in both the vertical and horizontal direction.
 The forward movement of the finishing beam or screed shall not be interrupted by the inserting of the dowel bars.
 A positive method of marking the locations of the transverse joints shall be provided.



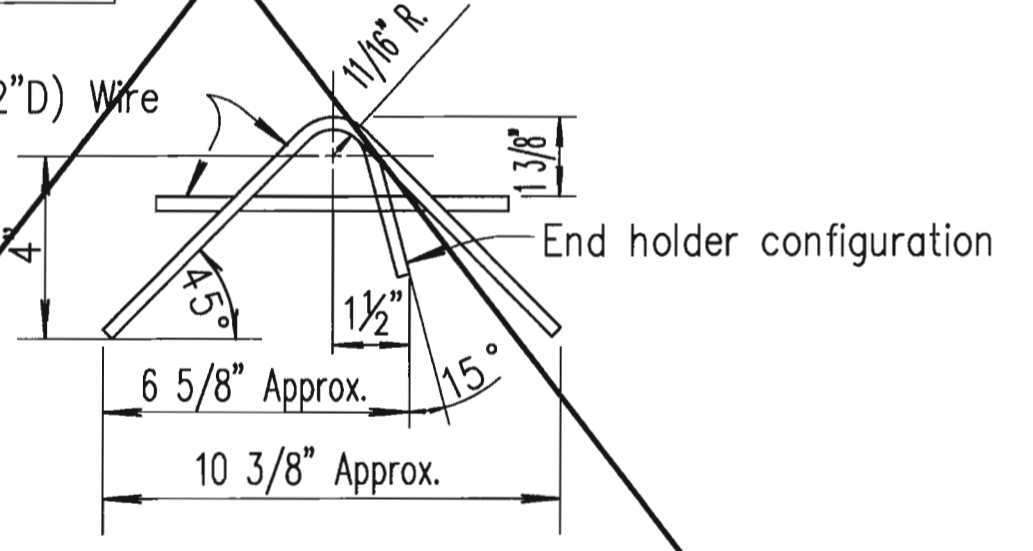
PERSPECTIVE VIEW



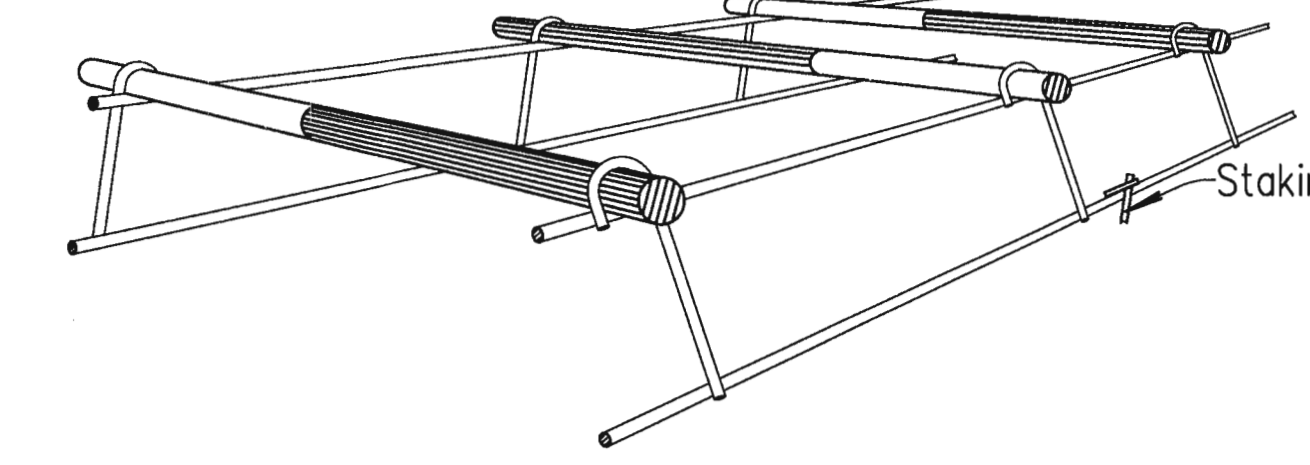
PLAN VIEW



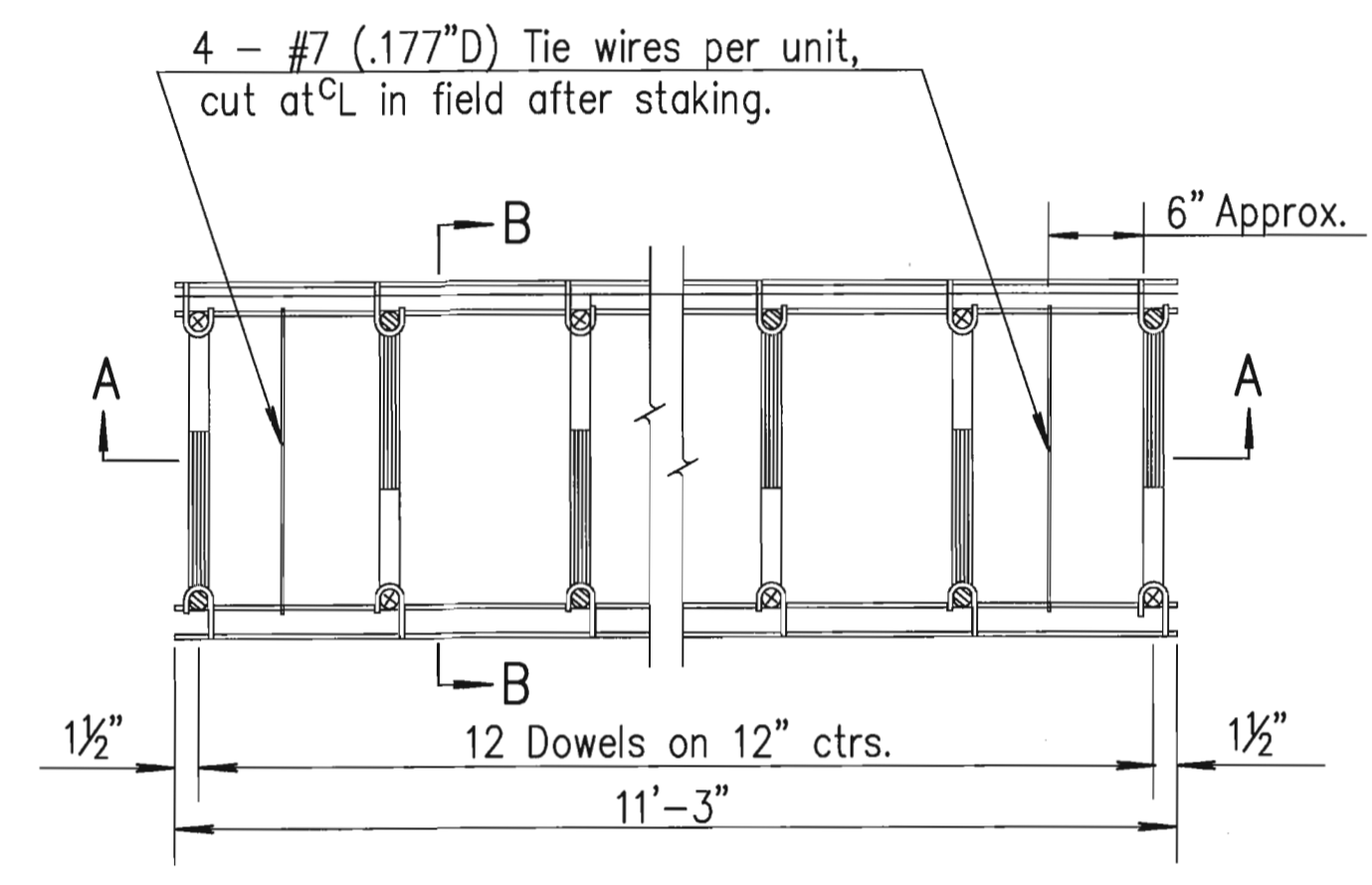
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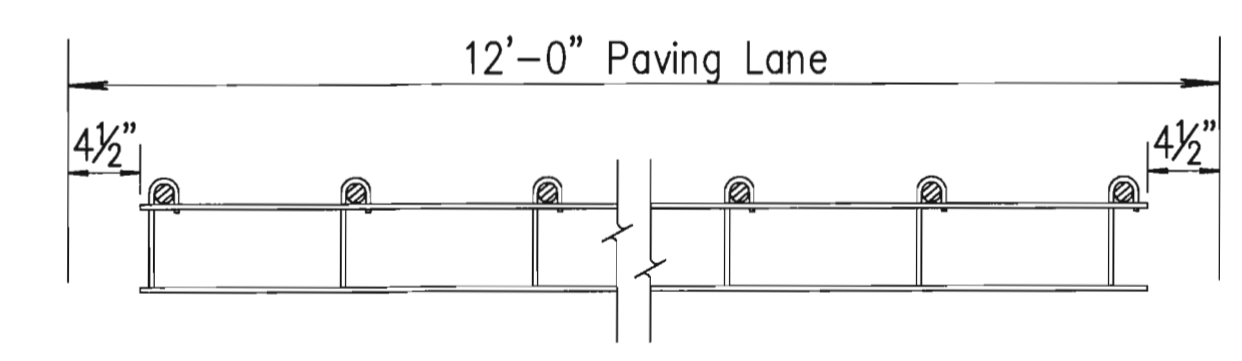
Note: Wire sizes shown are minimum required.
 Sides held together with tie wire, allowing quick separation of sides & insertion of expansion material, provided in field.
 One length of Preformed Expansion Joint filler (Type B), or other approved material, cut to fit crown and subgrade shall be used for each lane of pavement as expansion joint filler.
 A string line shall be stretched between the pavement forms along the center line of the joint.
 Each dowel bar shall be coated with an epoxy coating that meets the standard specifications. The coating material shall be a powdered epoxy resin approved by the Chief, Bureau of Materials and Research and shall be uniformly applied according to accepted practices and the resin manufacturer's recommendations. For Alt. 1 the coating need not be applied to the end faces of the bars and will not be required within 2" of the end which will be fixed in the supporting basket by welding.
 In order to identify the location of the bond breaker application, the working end of dowel and the supporting leg shall receive a light application of red paint at the place of fabrication. The bond breaker to be applied in the field prior to concrete placement shall consist of coating approximately three-fifths of the length of each dowel bar with hard grease at the working end identified by the red paint.
 The cutting to length of the dowel bars shall be done in such a manner to result in no appreciable deformation of the ends.
 The entire joint assembly shall be carefully leveled up so that the dowels are parallel to the slab surface and free to slide in the dowel holders. Any grease scraped off the dowels in assembling the joint shall be replaced. Any excess grease on the dowel holders shall be removed.
 After the complete expansion joint is assembled, it shall be checked to be certain that the vertical plane of the joint will be perpendicular to the finished surface of the slab and at a right angle with the center line of the slab. The dowels shall be checked to be certain that they are level and will remain in a position parallel with the finished surface of the slab.
 Concrete shall be placed over and adjacent to the joint in accordance with the requirements of the Specifications.
 To finish the joint after completion of machine finishing, floating and straight edging of the surface, the concrete over the filler shall be carefully removed and the joint edged with an edger of the proper size. Expansion Joint material is to be installed in the field.
 Other approved designs may be used in lieu of the type shown.



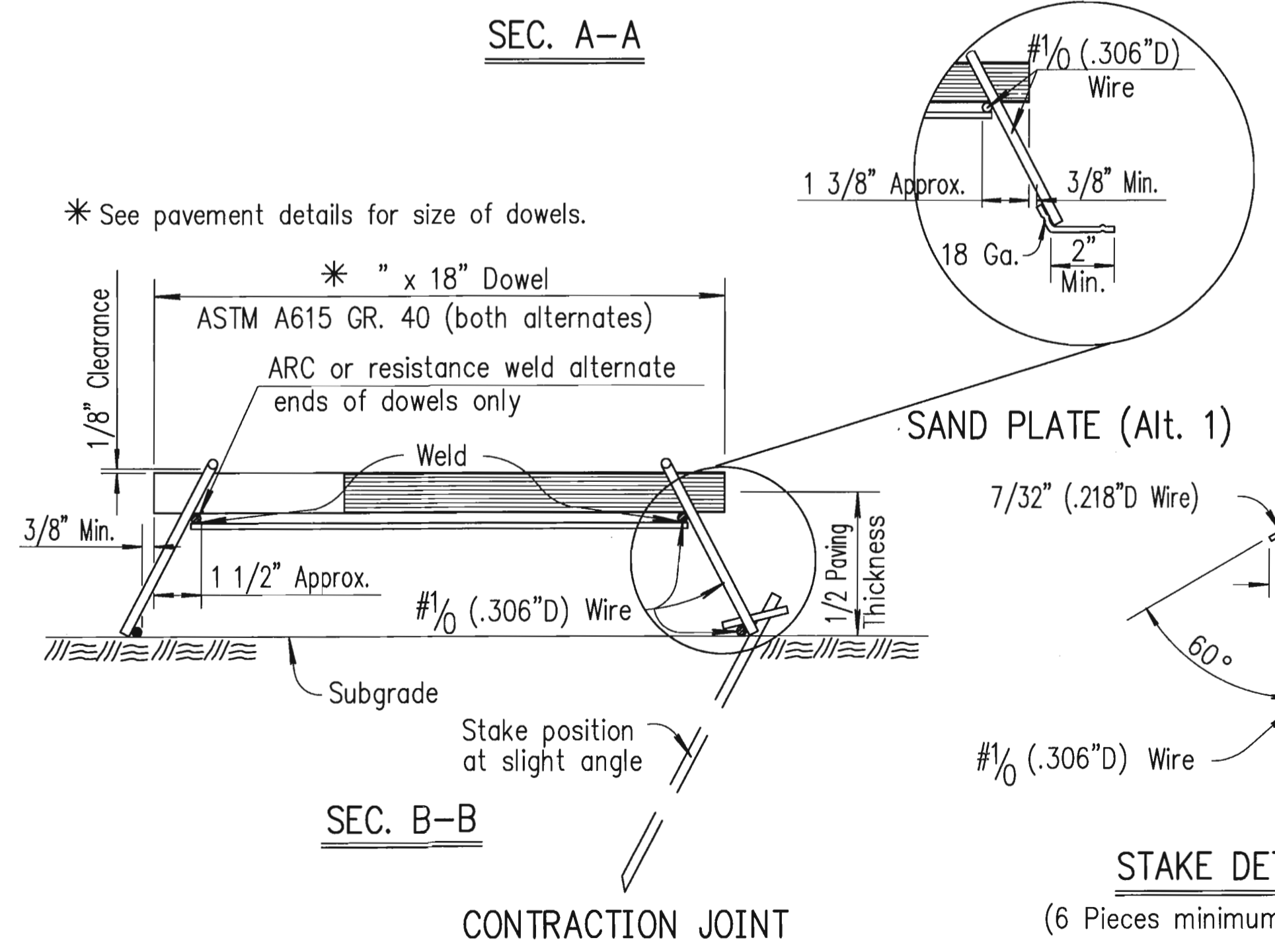
PERSPECTIVE VIEW



PLAN VIEW



SEC. A-A

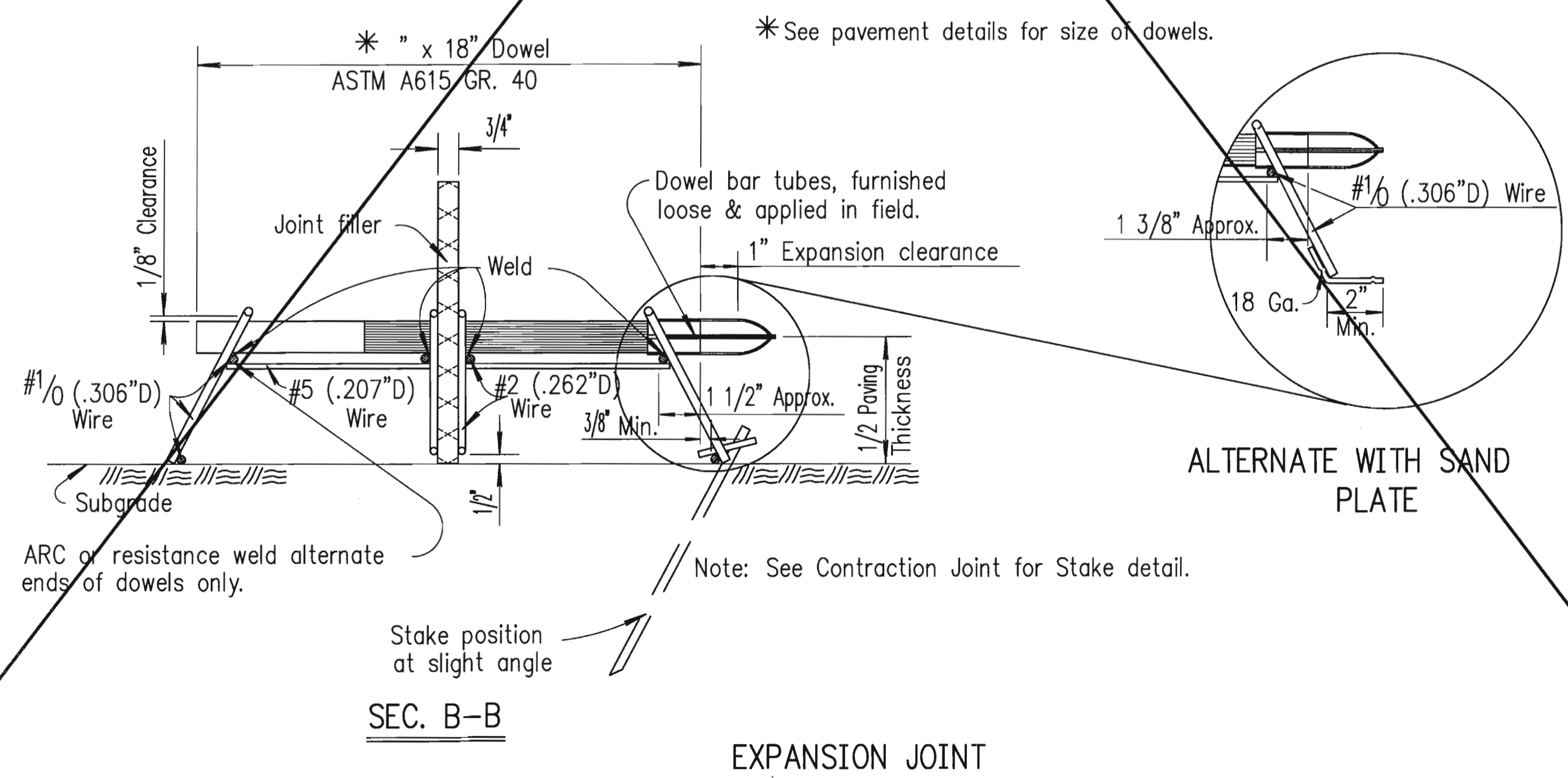


SEC. B-B

CONTRACTION JOINT

STAKE DETAIL

(6 Pieces minimum required)



SEC. B-B

EXPANSION JOINT

Device: DWFx EPlot (XPS Compatible).pc3 Page Setup: 1050C 36x22 Mono Final By: Packer, Lynn T.
 O: \Projects\Sedgwick County Sports Complex\rd735.dwg Layout: RD735 Plotted: 6/9/2013 9:21 PM

NO.	DATE	REVISIONS	BY	APP'D
8	2-15-06	Chg. Grade 60 to Grade 40 Steel	S.W.K.	J.O.B.
7	5-5-04	Revision on Epoxy coating	S.W.K.	J.O.B.
6	4-9-03	Rev. General Note on Epoxy coating	S.W.K.	J.O.B.
5	4-24-90	Revised notes, added Alt. 1 & 2 Cont.Jt.	R.J.S.	J.O.B.

KANSAS DEPARTMENT OF TRANSPORTATION

CONTRACTION & EXPANSION JT. DOWEL ASSEMBLIES

RD735

FHWA APPROVAL	4-20-06	APP'D. James O. Brewer
DESIGNED	DETAILED	QUANTITIES
DESIGN CK.	DETAIL CK.	QUAN. CK.

TRACED Bowser
TRACE CK. Hecht

STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	SCP-1	2013	12	39

GENERAL NOTES

The details depicted here may not be appropriate for all locations. Designs shall meet this criteria on all new construction projects unless impracticable by site restrictions. For an existing sidewalk facility where the sidewalk will be replaced, sidewalk will be replaced according to this drawing to the maximum extent feasible.

Provide ramps at all corners of street intersections where there is existing or proposed sidewalk and curb. Provide ramps at mid-block walk locations for hospitals, medical centers and athletic stadiums.

Details shown on this sheet apply to all construction or reconstruction of streets, curbs or sidewalks. See standard specifications for additional information.

Use of sidewalk ramp Type 2 shall be restricted to locations where is not feasible to use Types 1 or 3.

Curb cut ramps are to be located as shown on the plans or as directed by the Engineer.

Drainage structures should not be placed in line with ramps except where existing drainage structures are being utilized in the new construction. Ramp location should take precedence over location of drainage structure.

Sidewalks shall be ramped where the driveway curb is extended across the walk. Construct ramp with uniform grade free of sags and short grade changes.

Place 3/4" redwood board expansion joints flush with the surface at a maximum spacing of 125'. Place 3/4" redwood expansion joints at sidewalk junctions, see Plan details. Where sidewalk abuts a curb place 3/4" redwood board expansion joint flush with the surface.

Place 1/2" preformed (Non-extruding, Type B) joint filler where sidewalk is parallel and adjacent to a rigid structure.

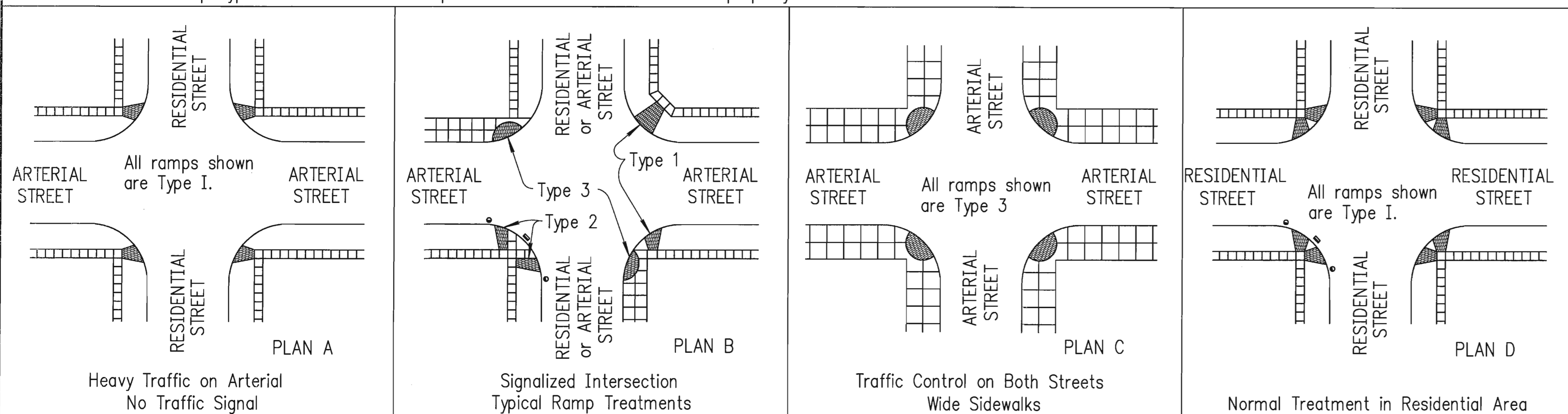
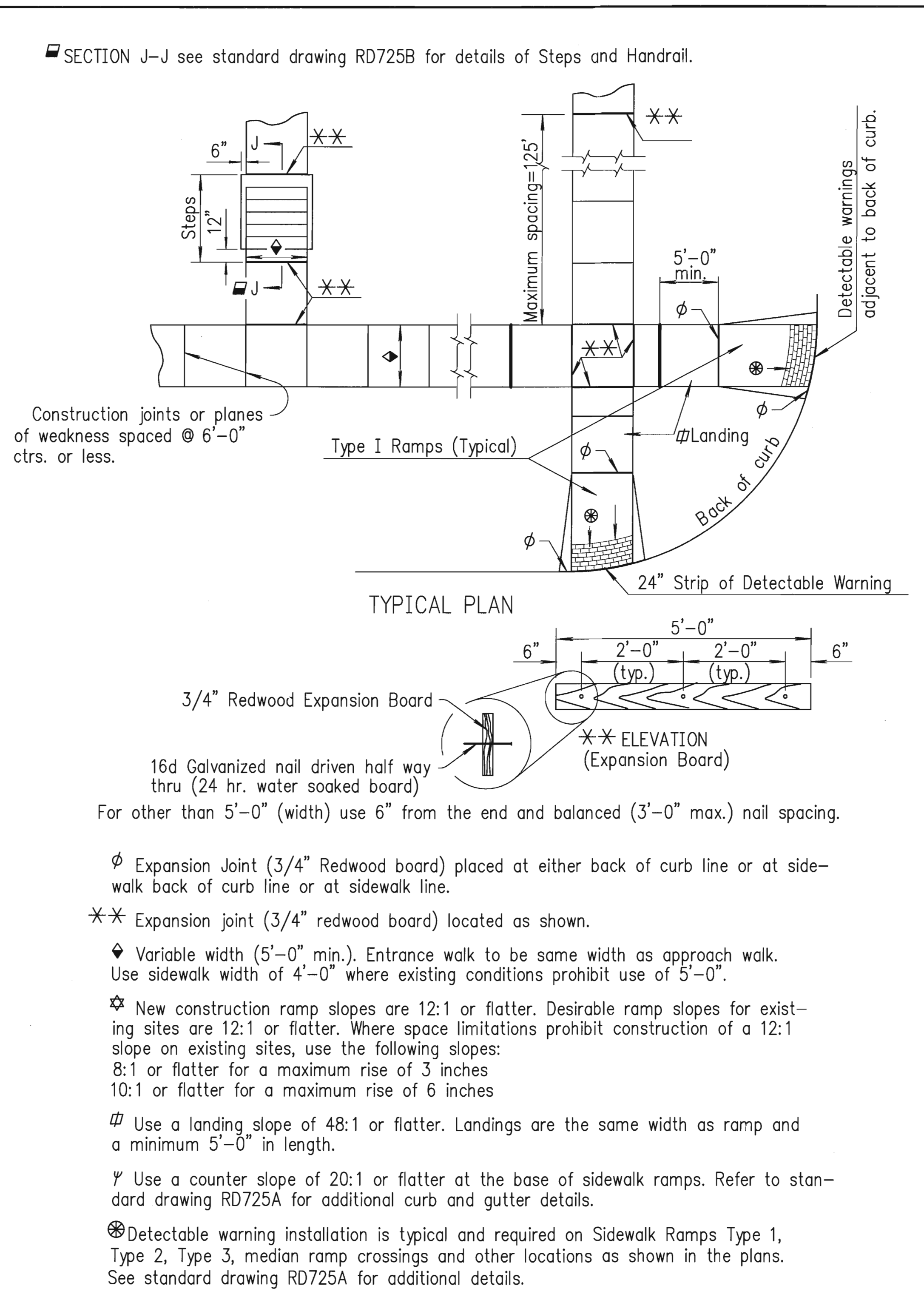
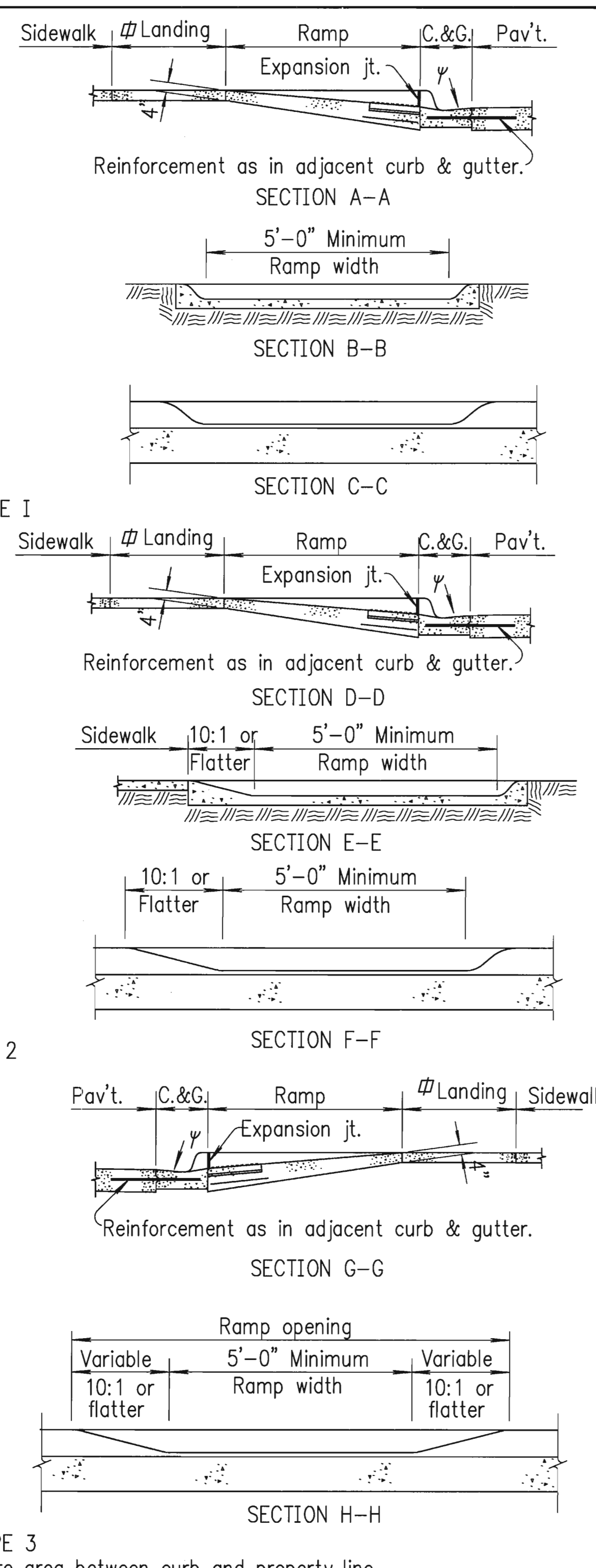
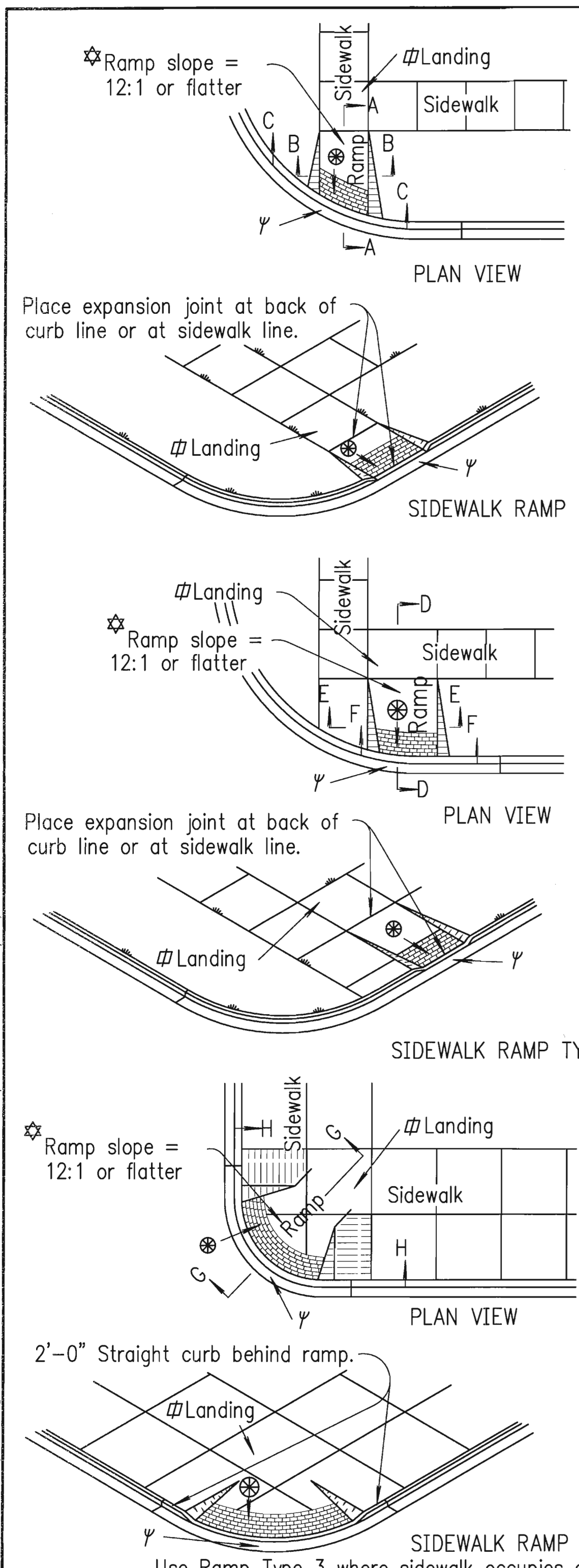
Slope sidewalk toward the street at a 50:1 or flatter. Slope or depress sidewalk where necessary to fit alleys and entrances see plans or at Engineer's direction.

Where clear width of sidewalk between top of ramp and building or other obstruction is less than 48 inches, slope the flared sides 12:1 or flatter.

Sidewalk shown to be constructed in back of an entrance is placed 6" thick with welded wire reinforcement, gauge and spacing of wires is the same as in entrance pavement see Reinforcement Diagram. Bid item will be "Sidewalk Construction (6") either with or without air entrainment.

Contractor may opt to use Concrete Grade 3.0 (AE) throughout for construction of steps, but all work and materials are paid for under the bid item "Grade 3.0 Conc. (Misc.)".

Surface texture ramp slope with a wooden float or brushed finish.



LEGEND

- Sidewalk Ramp Type 1
- Sidewalk Ramp Type 2
- Sidewalk Ramp Type 3
- Preferred location of drainage inlet (Typical)
- Alternate location of drainage inlet (Typical)
- Sidewalk

9	2-10-10	Revised notes & General Note	S.W.K.	J.O.B.
8	7-30-08	Rearr. layout, added steps sheet	S.W.K.	J.O.B.
7	1-28-05	Changed Class to Grade concrete	S.W.K.	J.O.B.
6	8-20-03	Revised notes and details	S.W.K.	J.O.B.
NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION

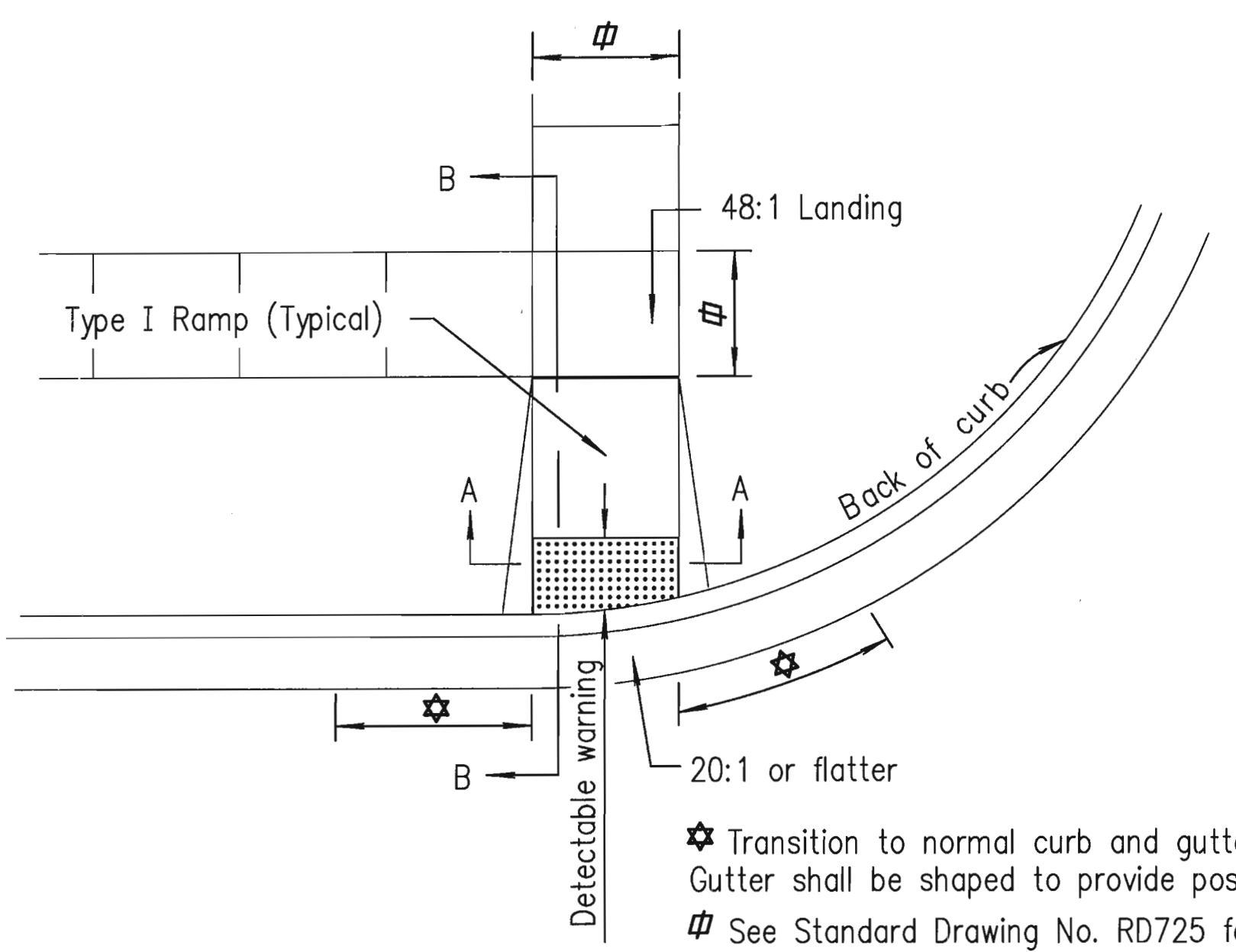
SIDEWALK & STEPS

RD725

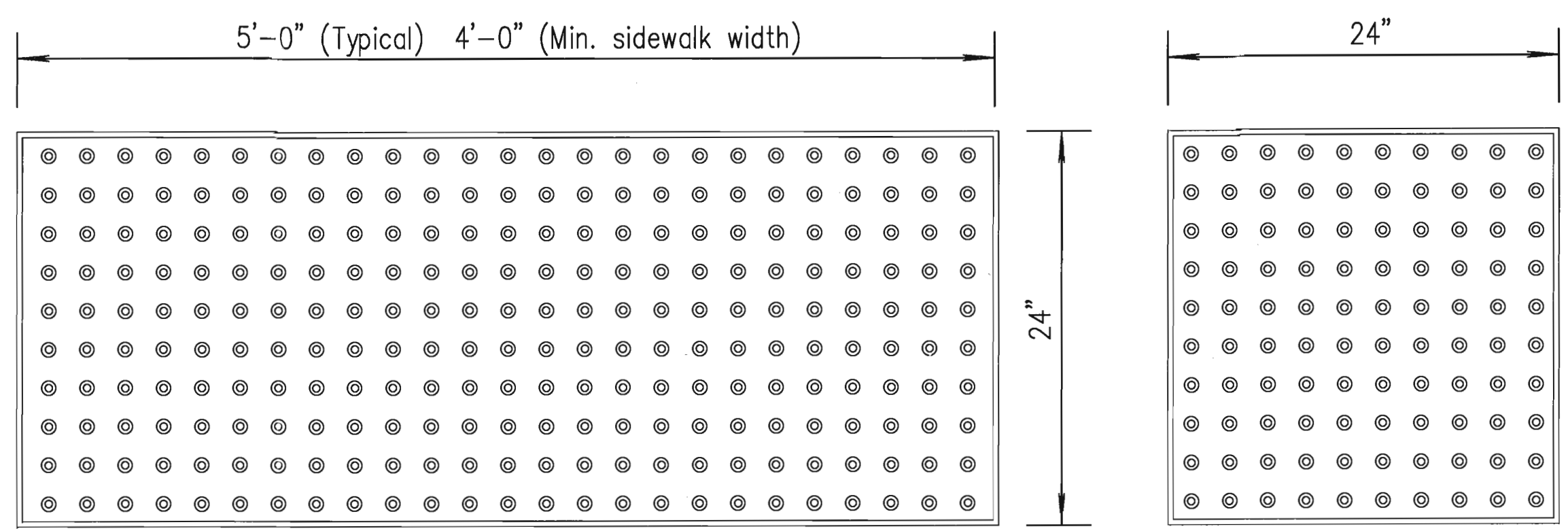
FHWA APPROVAL	4-7-10	APP'D	James O. Brewer
DESIGNED	DETAILLED	QUANTITIES	TRACED
DESIGN CK.	DETAIL CK.	QUAN. CK.	TRACE CK.

Device: DMF x EPlot (XPS Compatible).pc3 Page Setup: 1050C 36x22 Mono Final By: Packer, Lynn T. O: \Projects\Sedgwick County Sports Complex\Yr725.dwg Layout: RD725-Sidewalk & Steps Plotted: 6/9/2013 9:22 PM

STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	SCP-1	2013	13	39

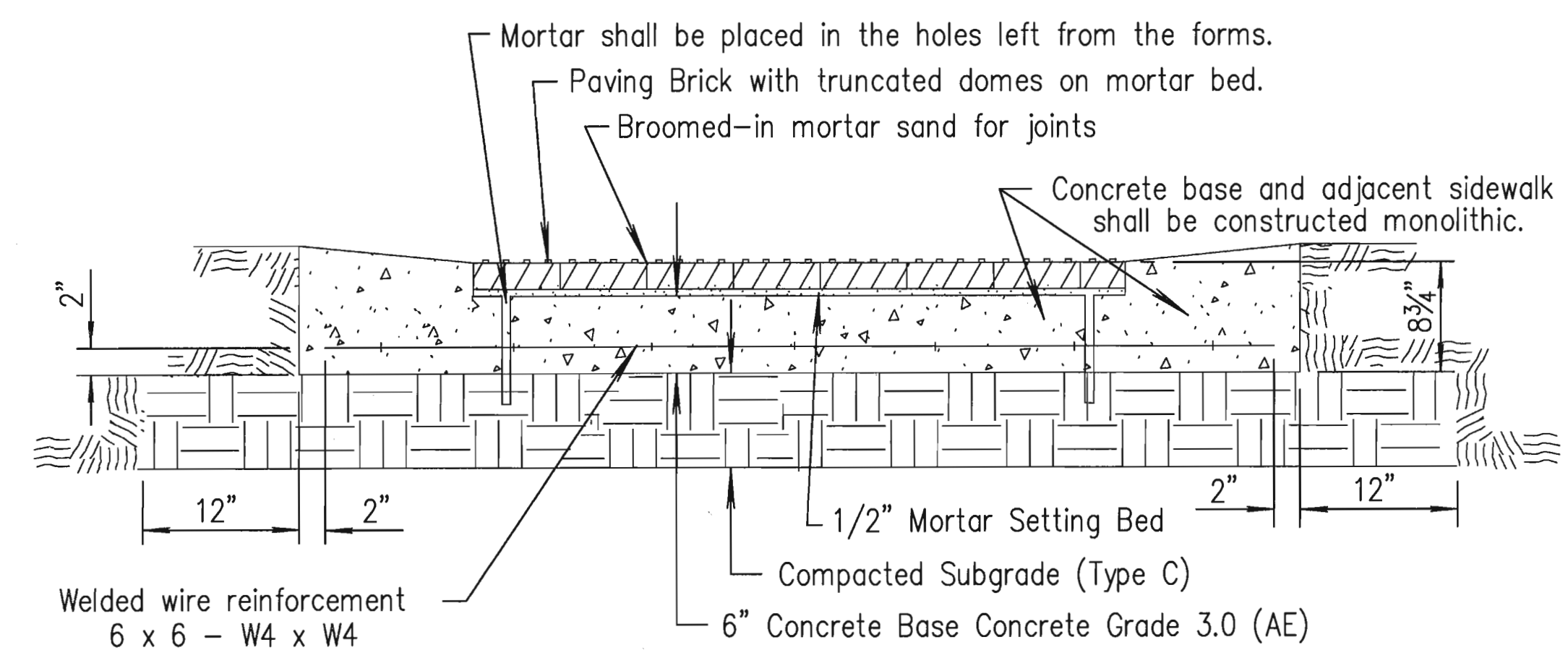


TYPICAL PLAN

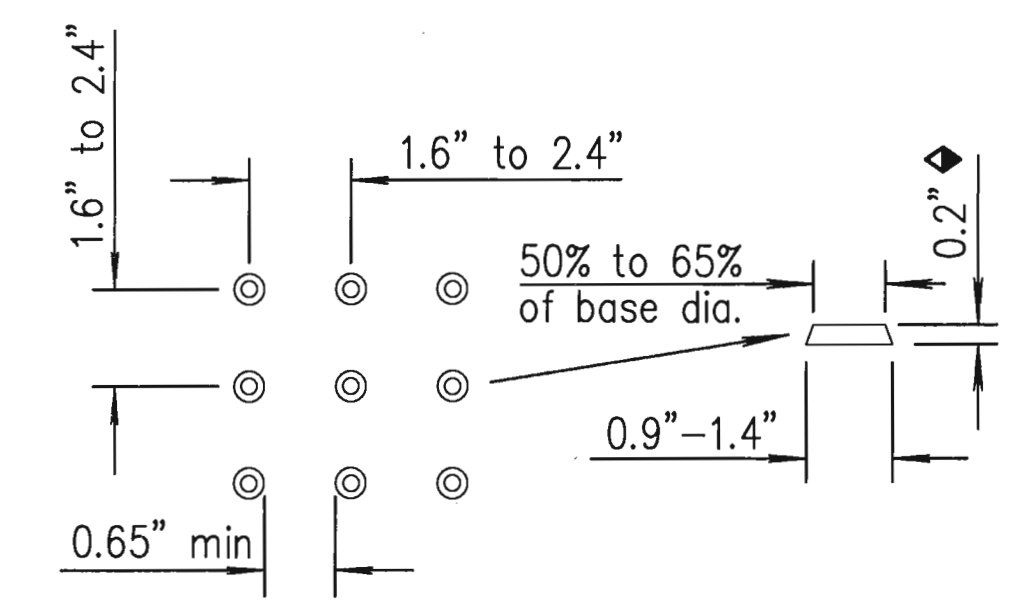


COMPOSITE PANEL with TRUNCATED DOMES
PRESTRESSED RAMP PANEL with TRUNCATED DOME SURFACE

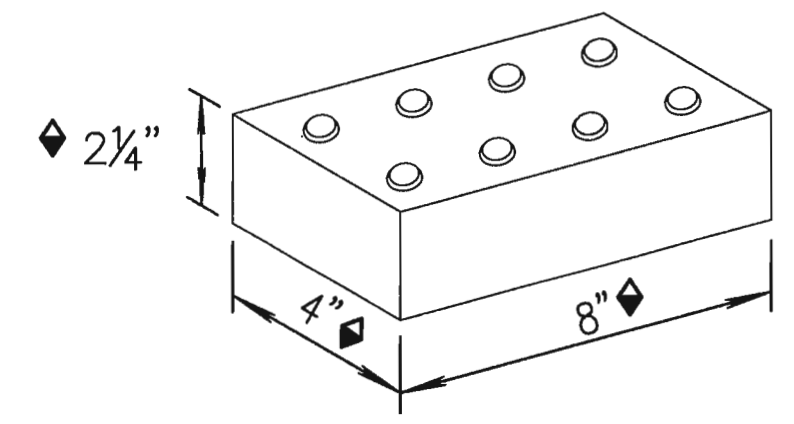
GENERAL NOTES
 Details shown on Standard Drawing RD725 & RD725A may not be appropriate for all locations. Design new project construction to criteria shown on these drawings unless impracticable by site restrictions. For existing sidewalk replacement, follow these drawings to the maximum extent feasible.
 Use Paving Brick, Prestressed or Composite Panel (Truncated Dome Surface) units that meet the requirements of the Standard Specifications and comply with the American Disabilities Act. Use a contrasting color paving brick or panel to adjacent surfaces.
 Cover the ramp width and 24" length with truncated dome surface, see examples Standard Drawing RD725 & RD725A. Saw cut (only) bricks or panels with not less than 25% of a full brick or panel installed. Place Truncated Dome Bricks or Panels to align parallel in the direction of pedestrian travel.
 Prestressed or Composite Panels are installed in fresh concrete. Paving Brick require mortar bed and mortar sand, see Standard Specifications for requirements.
~~The entire ramp or median crossing will be bid as "Sidewalk Ramp" and payment is measured by the square yard. Materials and labor to install sidewalk ramp are subsidiary to the bid item "Sidewalk Ramp."~~
 All materials and labor to install composite panels with truncated domes are subsidiary to the bid item, "Sidewalk Construction (4") (AE)."



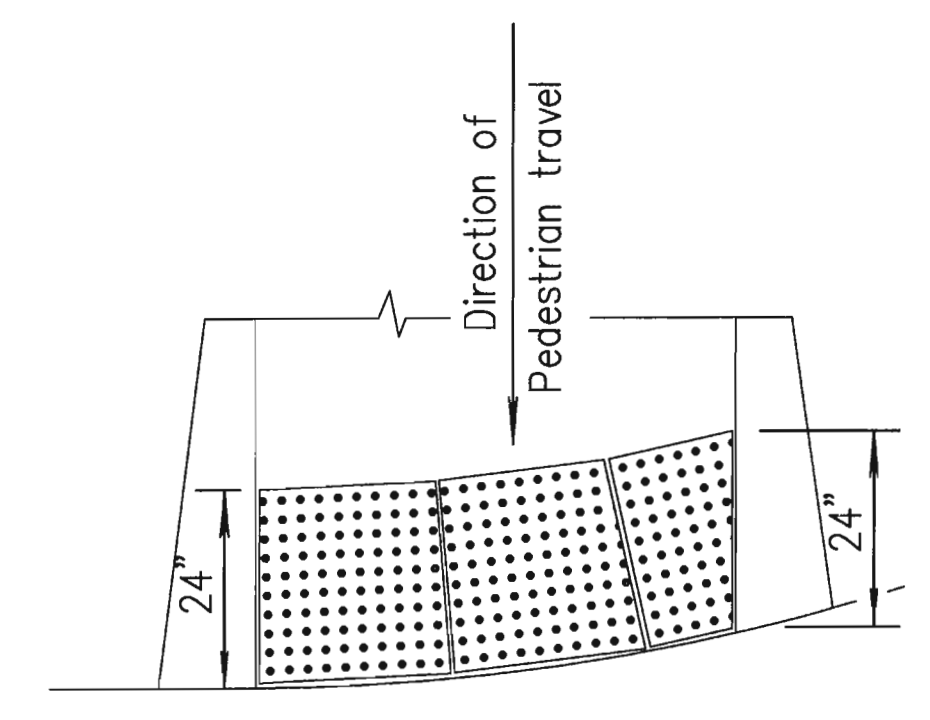
TYPICAL SECTION OF PAVER BRICK SECTION A-A



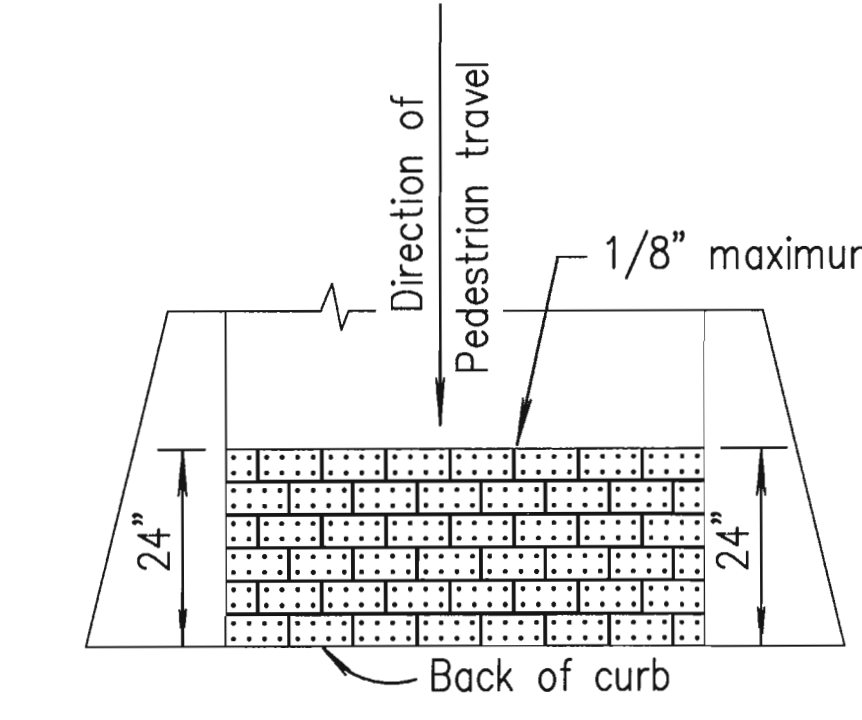
TRUNCATED DOME DIMENSIONS for SQUARE PATTERN (Parallel Alignment)



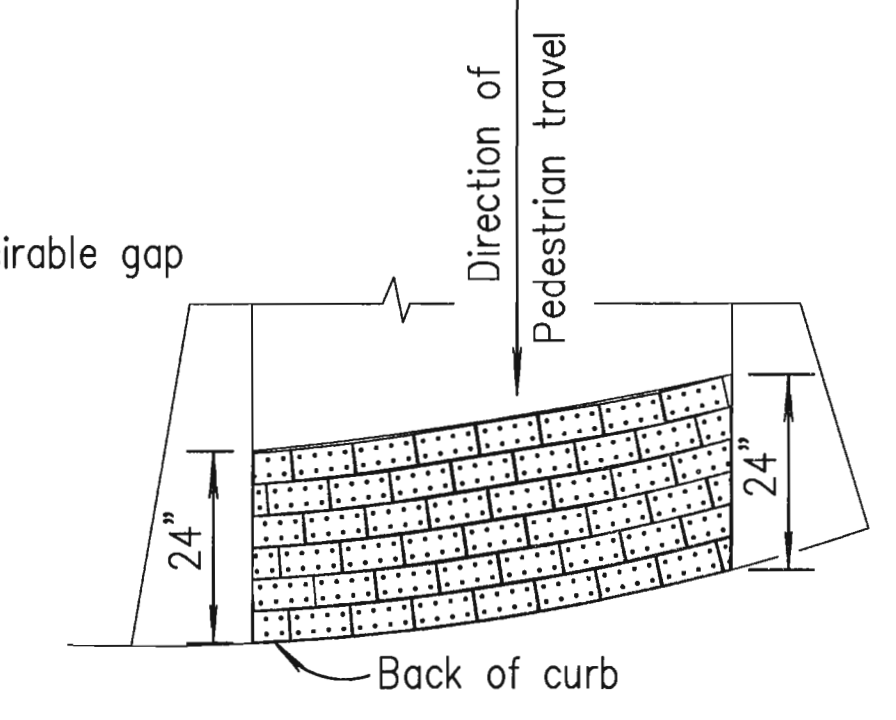
PAVER BRICK WITH TRUNCATED DOME SURFACE
 These dimensions are nominal.



RADIUS CURB DETAILS
 Cut Prestressed Ramp Panels to fit.

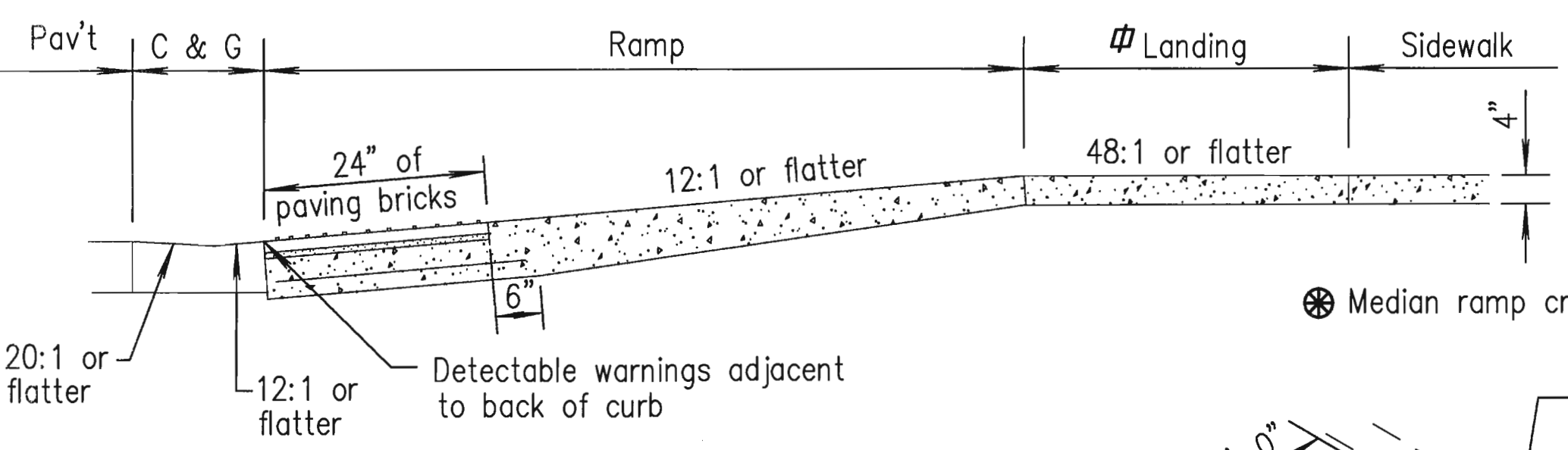


STRAIGHT CURB DETAILS

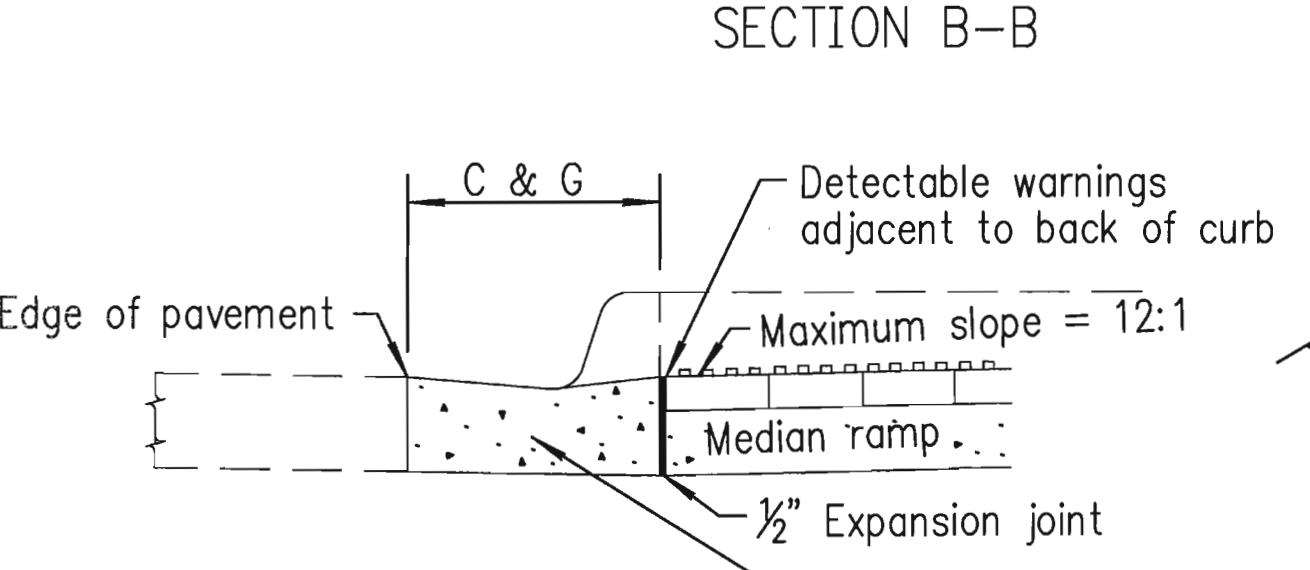


RADIUS CURB DETAILS

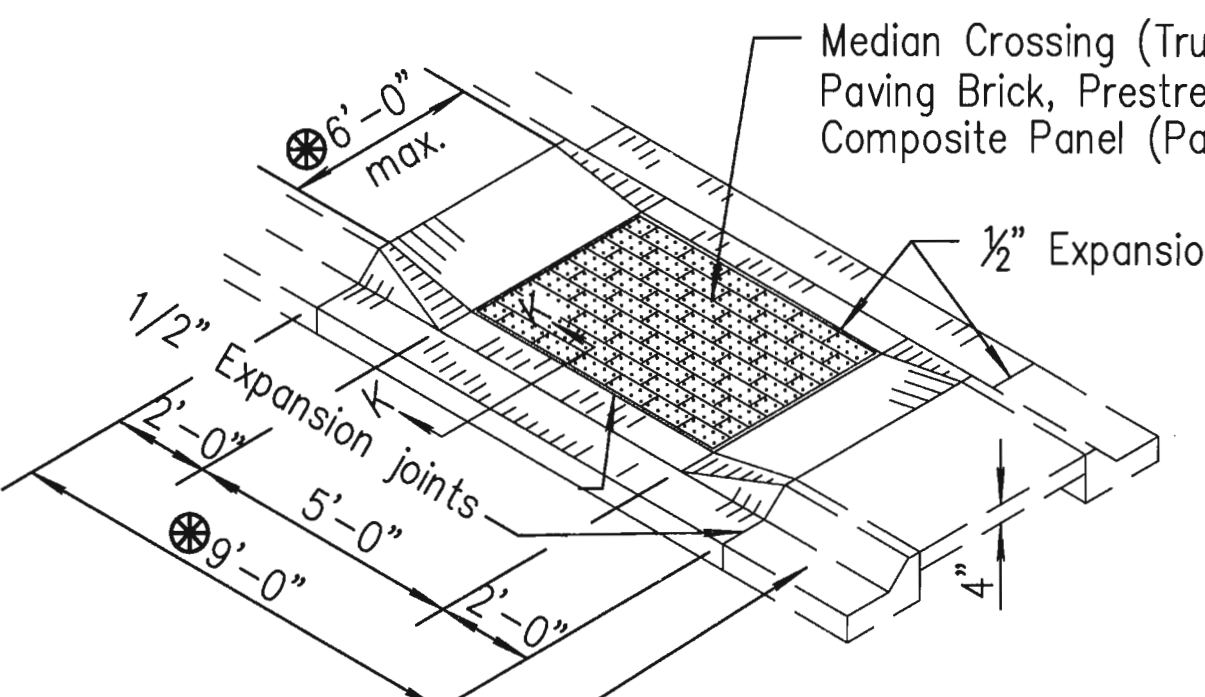
Installation shown for paving brick is running bond, use of other patterns is allowed with Engineer approval. Rotation 90° of Running Bond pattern is allowed to reduce space between bricks on radius installation, keep this space to a minimum. Place truncated domes on bricks in parallel alignment to pedestrian travel as shown.
 Radius curb or greater than 5' width ramp will require more than one panel as approved by the Engineer. Limit number of panels installed at each site. Layouts shown are for example and may vary in the field.
 Acceptable with no mixing of types within an installation.



SECTION B-B

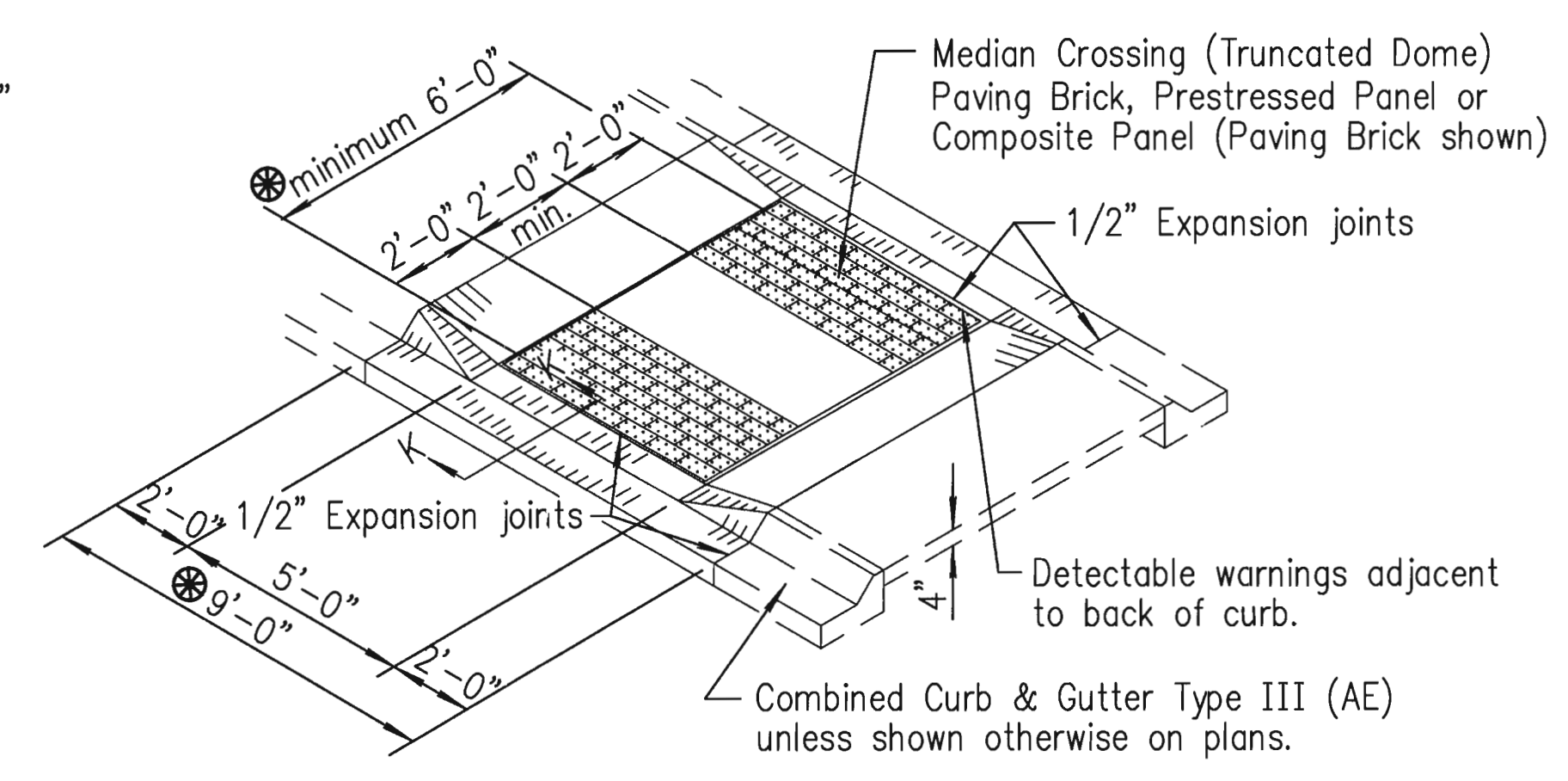


SECTION K-K



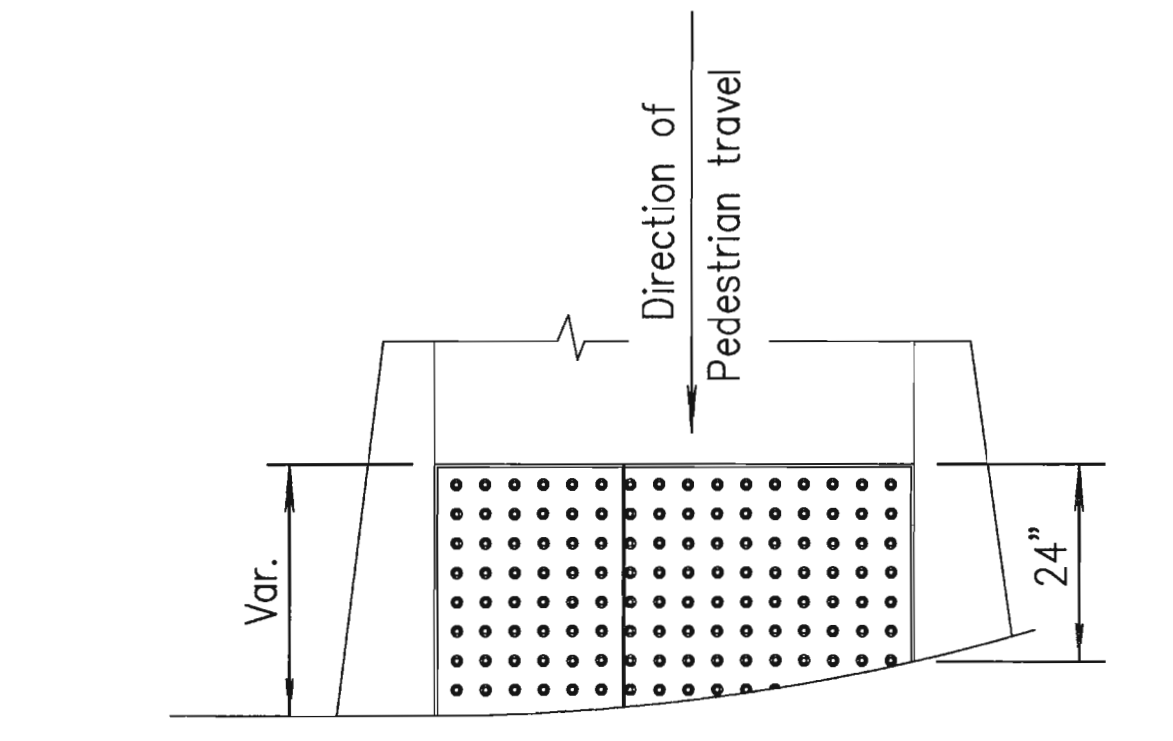
NARROW MEDIAN RAMP CROSSING

Note: A Median Ramp Crossing shall be constructed at Crosswalk locations.



WIDE MEDIAN RAMP CROSSING

Note: A Median Ramp Crossing shall be constructed at Crosswalk locations. Wider median islands will result in a 2' minimum gap between the truncated dome areas.



RADIUS CURB DETAILS (COMPOSITE)
 Cut Radius from 3'-0" Long Composite Panel.

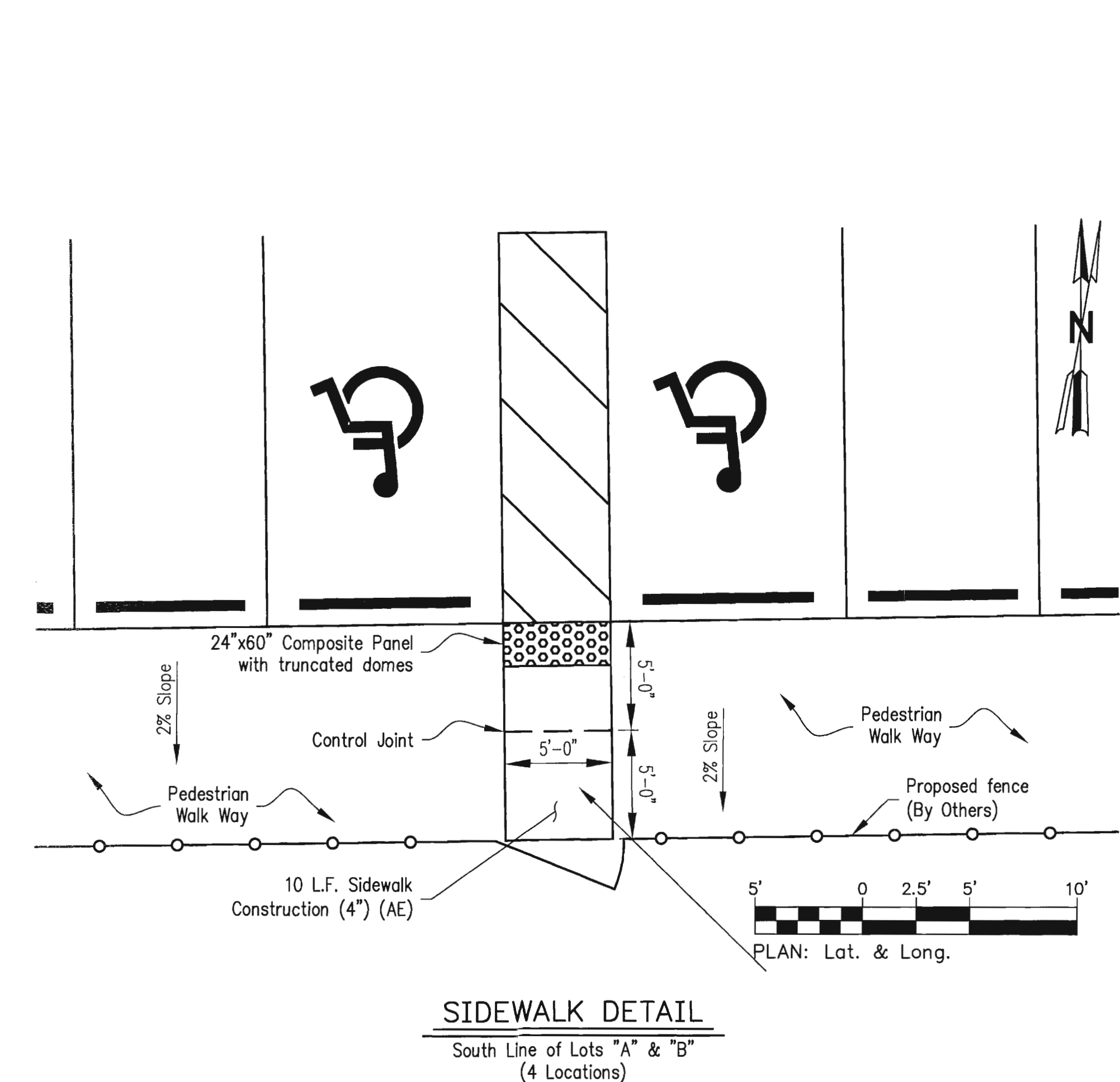
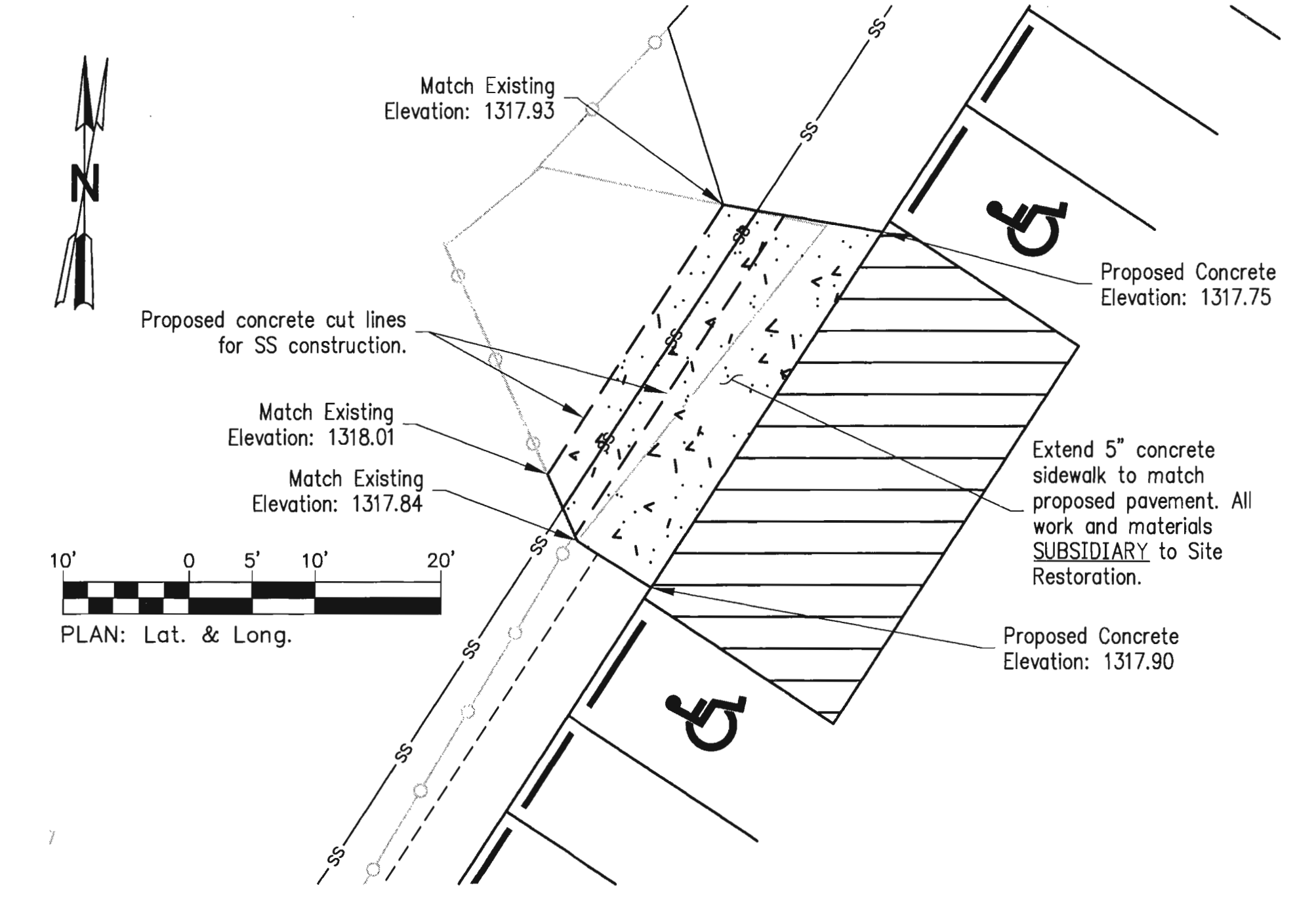
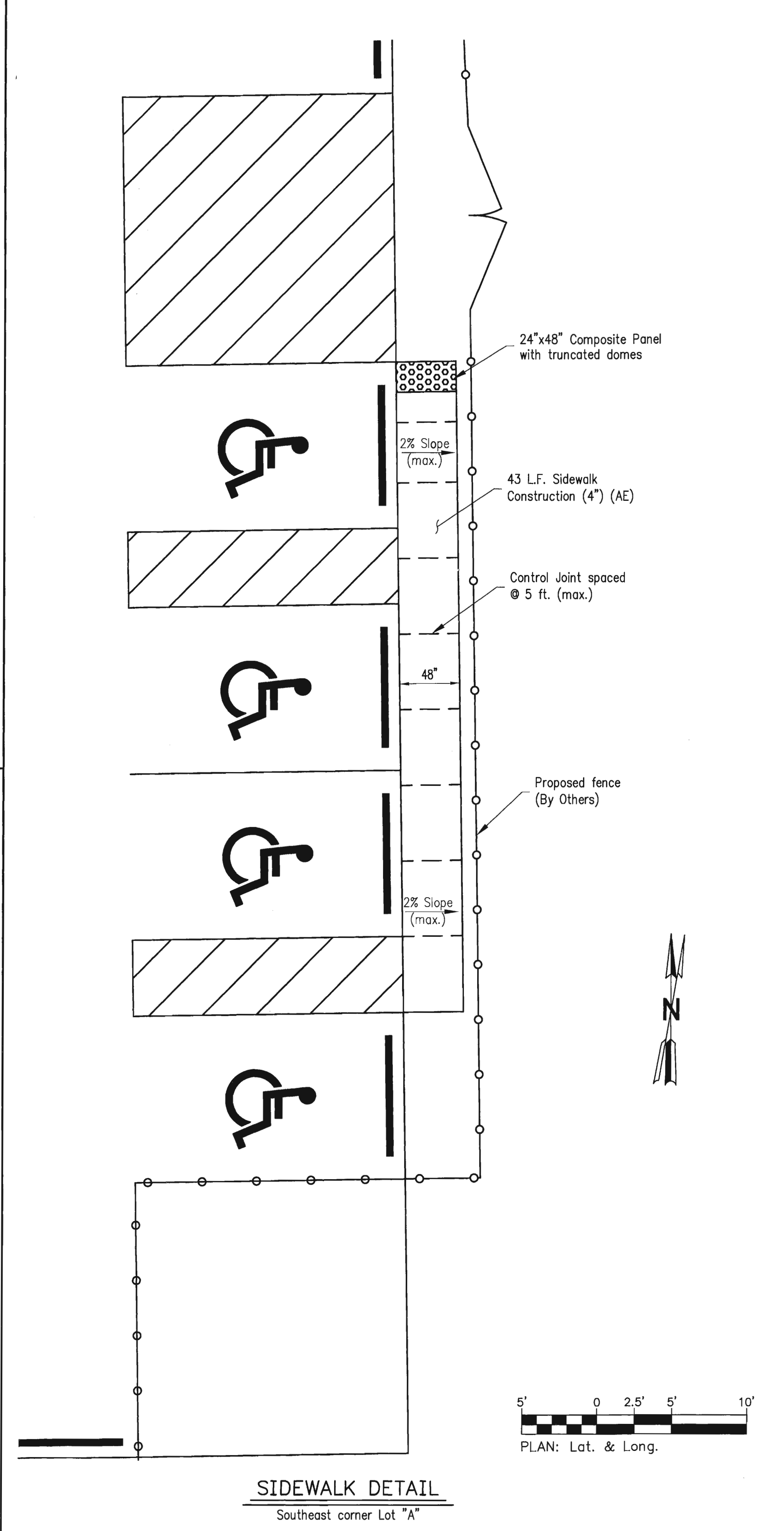
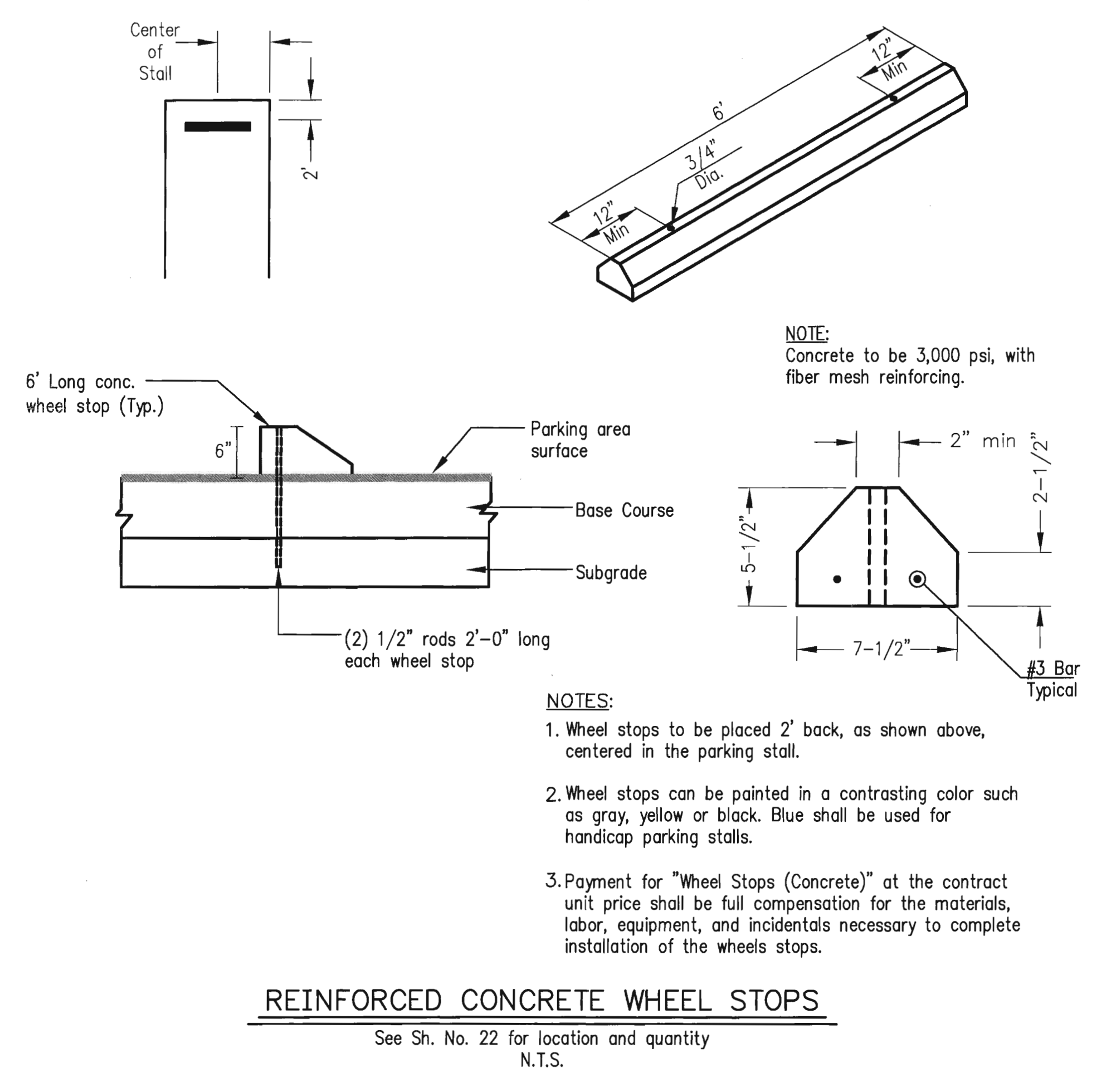
4	2-10-10	Added Composite Panel	S.W.K.	J.O.B.
3	8-15-05	Added Prestressed Ramp Panel alt.	S.W.K.	J.O.B.
2	2-24-05	Class to Grade conc., wire reinf.	S.W.K.	J.O.B.
1	8-20-03	Revised details and notes	S.W.K.	J.O.B.
NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION
**AUXILIARY DETAILS FOR
 SIDEWALK & STEPS**

RD725A			
FHWA APPROVAL	4-7-10	APP'D.	JAMES O. BREWER
DESIGNED	DETAILD	QUANTITIES	TRACED
DESIGN CK.	DETAIL CK.	QUAN. CK.	TRACE CK.

Device: DMF Plot (XPS Compatible).pc3 Page Setup: 1050C 36x22 Mono Final By: Packer, Lynn T
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COUNTY	STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
SEDGWICK	KANSAS	SCP-1	2013	14	39



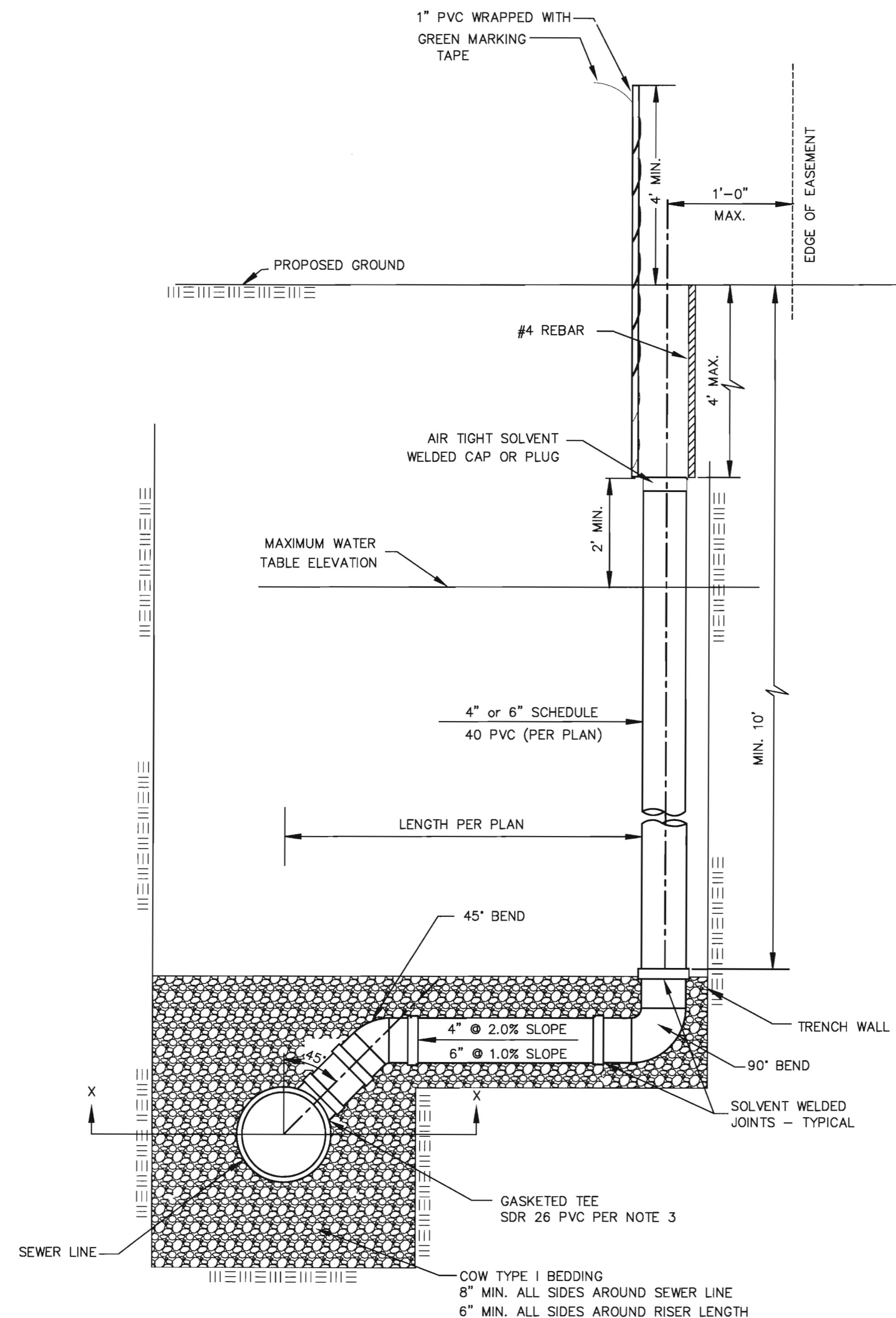
West Sedgwick County Park Improvements					
MISCELLANEOUS DETAILS					
PREPARED BY SEDGWICK COUNTY PUBLIC WORKS HIGHWAY DEPARTMENT					
DAVID C. SPEARS, P.E.		DIRECTOR/COUNTY ENGINEER			
REVISED	SCALE	DESIGNED	DRAWN	CHECKED	SHEET NO.
	As Shown	L.T.P.	J.R.W.	L.T.P.	14
	DATE	5/2013	5/2013	6/2013	
DWG: SCP-1.dwg					

Device: Adobe PDF Page Setup: --- By: Packer, Lynn T. O:\Projects\Sedgwick County Sports Complex\SCP-1.dwg Layout: Misc. Details Plotted: 6/10/2013 10:55 AM

GENERAL NOTES

- APPLICATION. Risers shall be installed to serve all lots or tracts where the sanitary sewer main is below the water table, where the sanitary sewer main depth is greater than 12' below the proposed ground elevation, where the main is adjacent to a pond or wherever service lines would have to cross under storm sewer pipe. Installation of risers because of field conditions shall be as approved by the City Engineer. The location of the risers to serve developed property shall be approved by the property owner and the Construction Engineer.
- MANHOLE STUB RISERS. Manhole stub risers be installed in manholes where locations of manholes will provide satisfactory service connection as determined by the Construction Engineer. The vertical distance between the flowline of the manhole stub and the flowline of the sanitary sewer line out of the manhole shall not exceed 2' stub. Risers shall be utilized at manholes as indicated in Note 1. Manhole stub riser shall be set such that the top of the stub is not lower than the top of the sanitary sewer line.
- SIZING. Risers shall be sized according to the plans and riser table where risers are indicated by the plans. Where risers are required because of field conditions, the risers shall be 6" diameter for commercial or industrial properties and 4" or 6" diameter for residential properties, based on lot size and sanitary sewer main depth. Sizing of risers shall be approved by the construction Engineer prior to installation.
- RISER MATERIAL. Risers shall be constructed of Schedule 40 PVC Pipe, meeting the requirement of the latest revision of A.S.T.M.. All pipe joints shall be solvent welded. Full body tee shall be SDR 26 PVC pipe.
- ROCK ENCASEMENT. Riser connection to clay pipe sanitary sewers shall be rock encased both ways from the riser centerline. The rock encasement shall extend three feet from the riser centerline or stop at the first sanitary sewer pipe joint within three feet of the riser centerline. Riser connections to PVC Sanitary sewer mains shall be rock encased one foot each way from the riser centerline. Crushed rock shall conform to ASTM C-33, Gradation No. 67, and shall meet all requirements for Portland Cement Concrete pavement Coarse Aggregate, Section 406.2, City of Wichita Standard Specifications.
- BEDDING. Beyond the limits of the rock encasement, bedding around the sanitary sewer riser shall be compacted Pipe Bedding Type 1 or 2. The bedding shall be placed and compacted from the depth of the sanitary sewer main to the top of the sanitary sewer riser pipe. Compacted Pipe Bedding Type 1 or 2 shall be required for all risers whether constructed in vertical wall or sloped wall trenches. Bedding material and construction practices shall be approved by the Construction Engineer prior to installation.
- SUPPORT OF RISERS. Sanitary sewer riser pipe shall be supported during trench backfill. The riser pipe shall be held in a vertical position at all times until trench backfill and compaction has been completed. Contractor's methods for supporting and back filling the riser pie shall be approved by the Construction Engineer.
- PLUGGING. The ends of the riser pipes and manhole stubs shall be plugged using an airtight solvent welded cap or plug. Cap or plug fittings shall be approved by the Construction Engineer prior to installation. Caps or plugs which do not provide an airtight seal will not be accepted.
- TOP OF THE RISER PIPE. The top elevation of the sanitary sewer riser pipe shall be built per plan elevations, unless otherwise directed by the Construction Engineer. where riser elevations are not shown on the plans, the top of the risers shall be set at an elevation four feet below the proposed ground surface. If ground water is encountered, the top of the riser pipe shall be set at an elevation 2' (min.) above the maximum water table elevation, regardless of the riser elevation shown on the plans.
- MARKING. Locations of the ends of the sanitary sewer riser pipe shall be marked by installing 1" PVC from the top of the riser to a minimum of 4' above the top of finished grade. No. 4 rebar shall be placed centered over the riser from the cap to the existing ground. The 1" PVC pipe shall be wrapped with green colored plastic tape, for the full length above ground surface. The green tape shall be 4 mil Polyethylene film with a minimum width of three inches, specifically manufactured for the purpose of identification of underground sewers.
- LOCATION MEASURES. The project inspector shall record and document the location of all risers constructed as measured from the nearest manhole, indicate the direction from the manhole, the direction and distance from the main, riser size, and elevation of the top of the riser in tabular format.
- RISER LOCATION. the riser shall be located per plan if shown. If not shown on the plan, the riser shall be located at the center of the lot, within one foot of the property side of the easement for the lot being served. All riser locations shall be approved by the Construction Engineer prior to installation.
- PAYMENT. "Riser Assembly, Vertical " shall be paid for at the contract unit price per each, which shall be full compensation for all pipe, fittings, marking tape, length of backfill, labor, site restoration, and any other items necessary to complete the work.

"Riser Assembly, Manhole Stub" shall be paid for at the contract unit price per each, which shall be full compensation for all labor material and incidentals necessary to complete the work including all pipe, fittings, rock encasement, and all other items as required and listed for "Riser Assembly, Vertical "



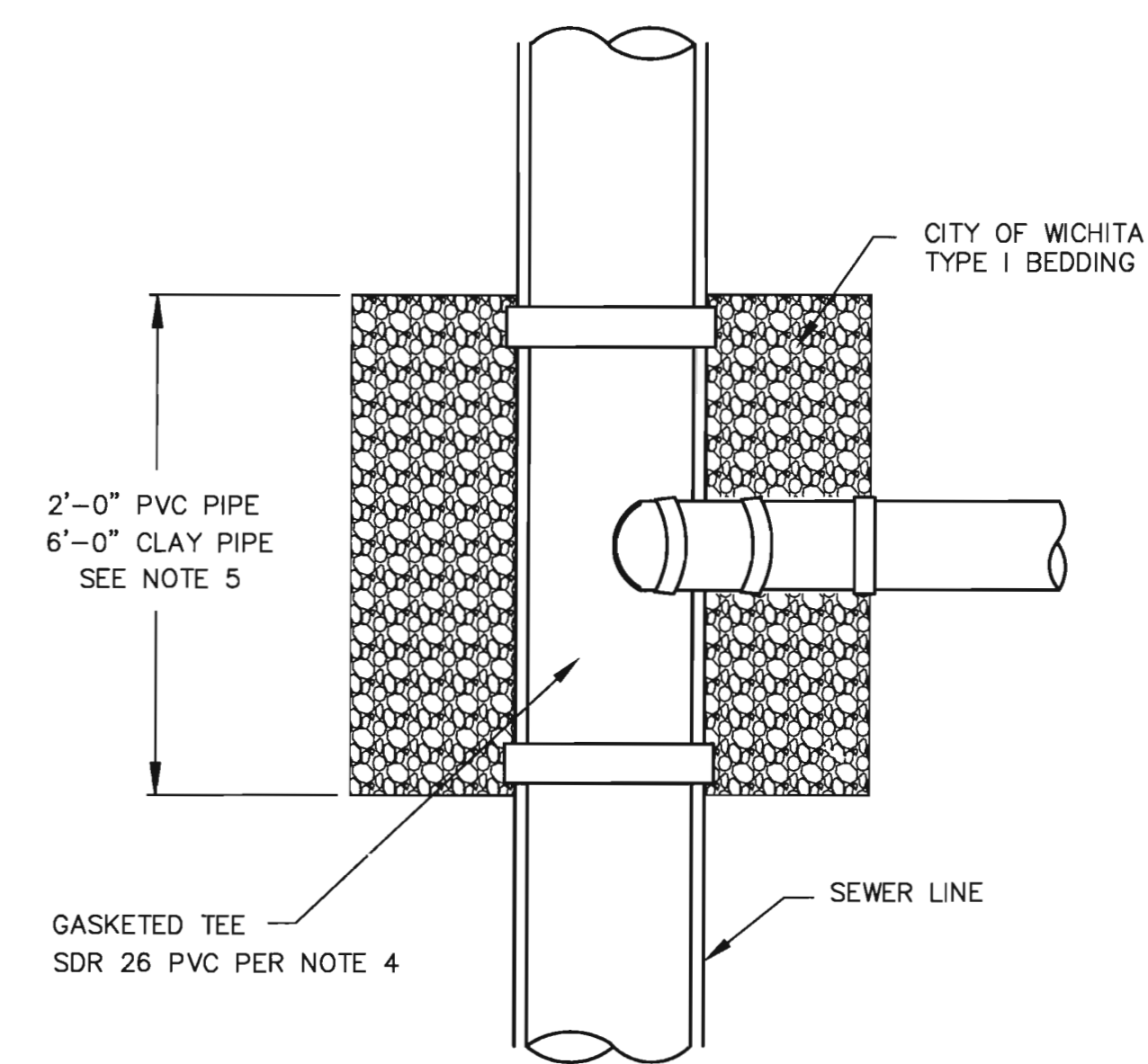
NOTE: RISER PIPE REQUIREMENTS AT MANHOLE STUBS SHALL BE SIMILAR TO THOSE SHOWN ABOVE.

PROPOSED RISER TABLE					
NO.	TYPE	STATION	ELEVATION	FOR INFORMATION ONLY	
				APPROXIMATE LENGTH 6" PIPE	
				VERTICAL	HORIZONTAL
1	MANHOLE SERVICE CONNECTION	22+13.10	1317.1	2.0'	59.0'

AS CONSTRUCTED
 INSP. *384* DATE *11-15-13*
 REMARKS *see Plans*

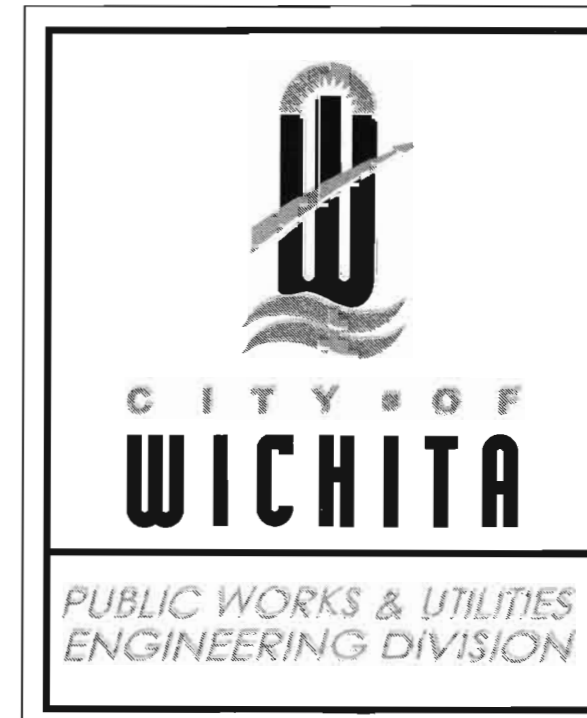
AS CONSTRUCTED
 INSP. *DOSE*
 REMARKS

NOTE:
 NON SHEAR COUPLING TO BE USED
 WHEN HOOKING TO CLAY PIPE.



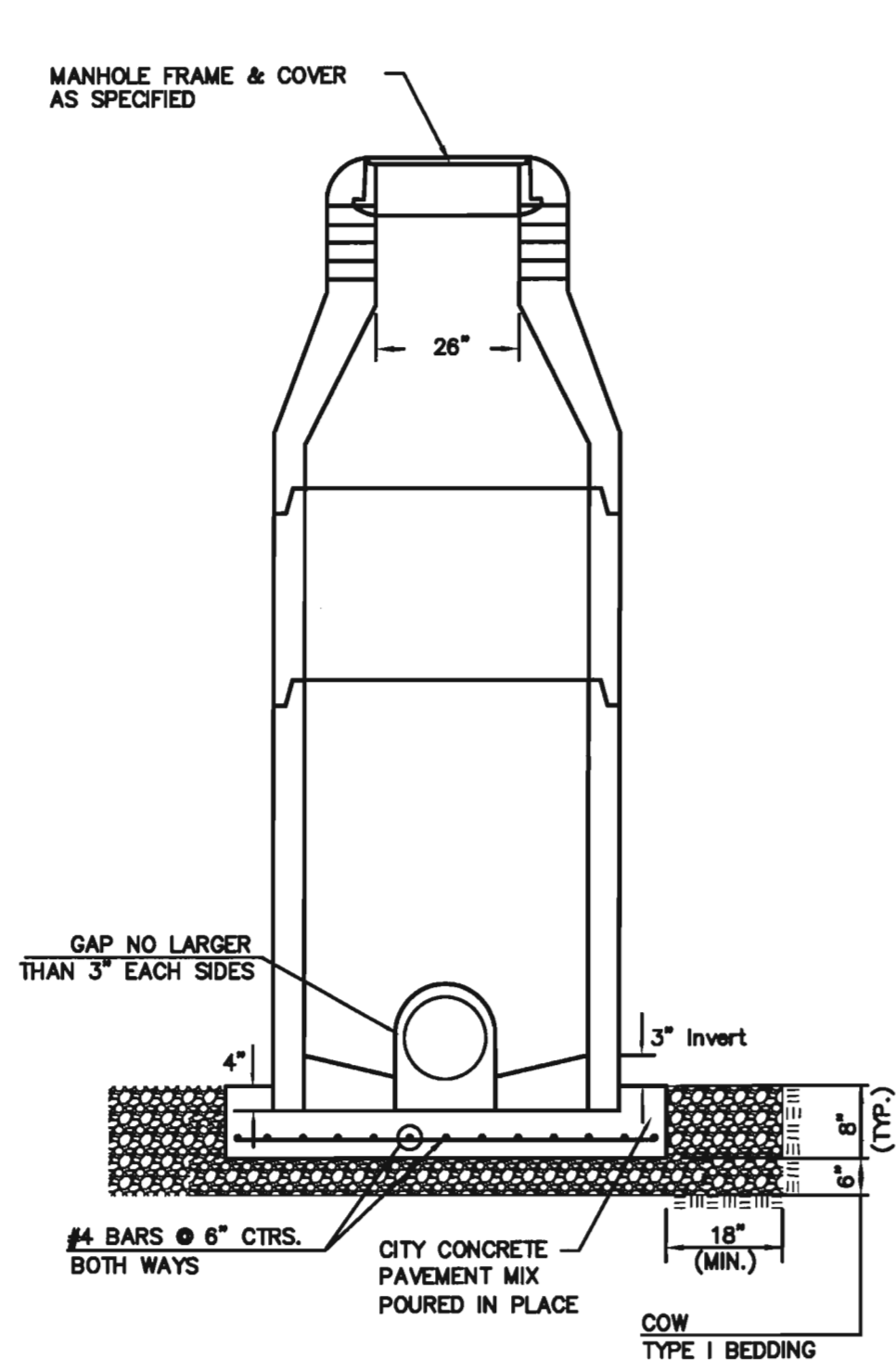
TYPICAL SECTION X-X

GREGORY J. ALLISON
 LICENSED PROFESSIONAL ENGINEER
 KANSAS
 11159
6/7/2013

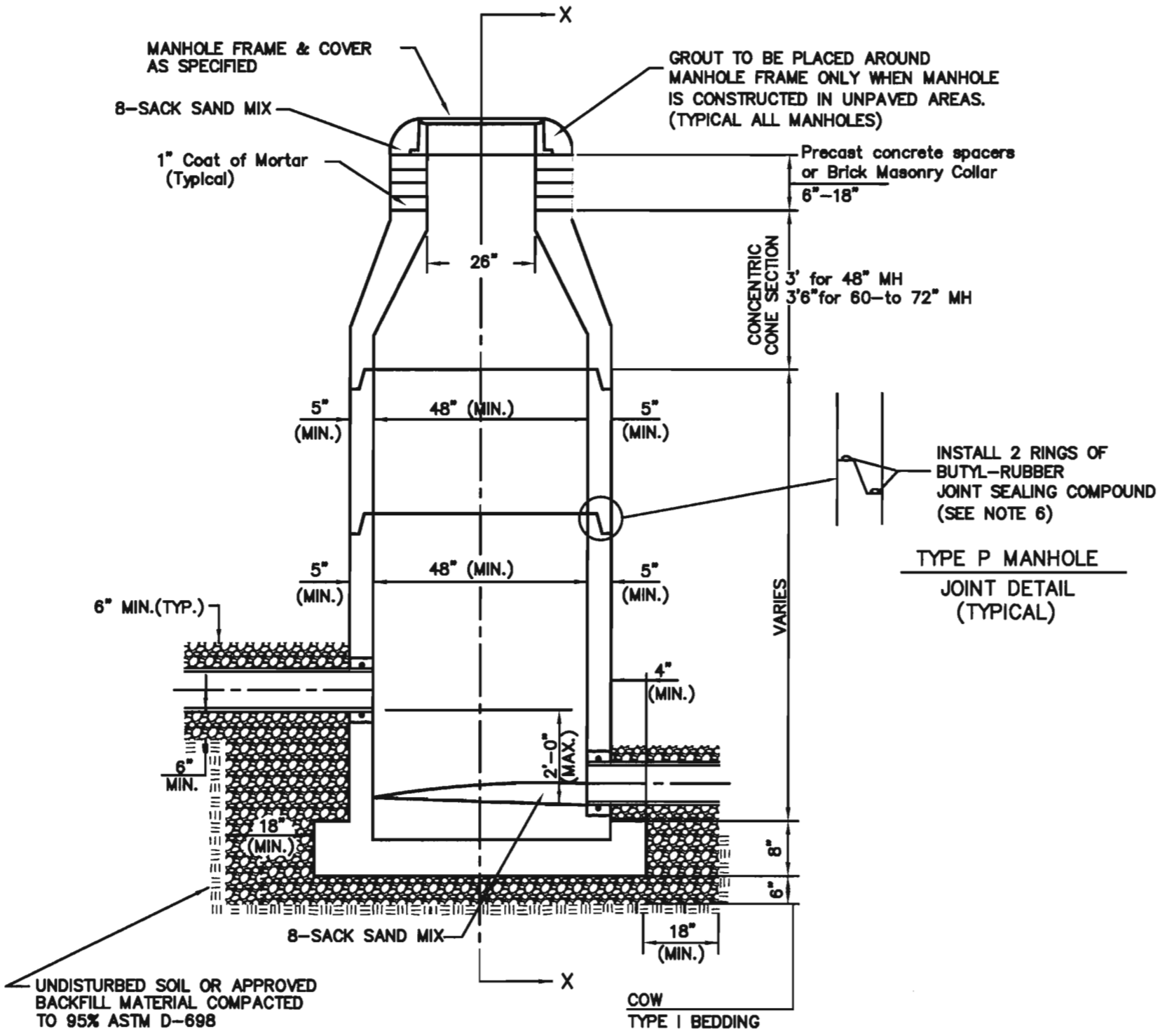


VERTICAL RISER ASSEMBLY SEWER DETAIL		
CITY ENGINEER GARY JANZEN, P.E.		
PROJECT NUMBER 1301010256	OCA NUMBER #####	DATE 08/2012
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		DESIGN DRAWN SHEET 15 of 39

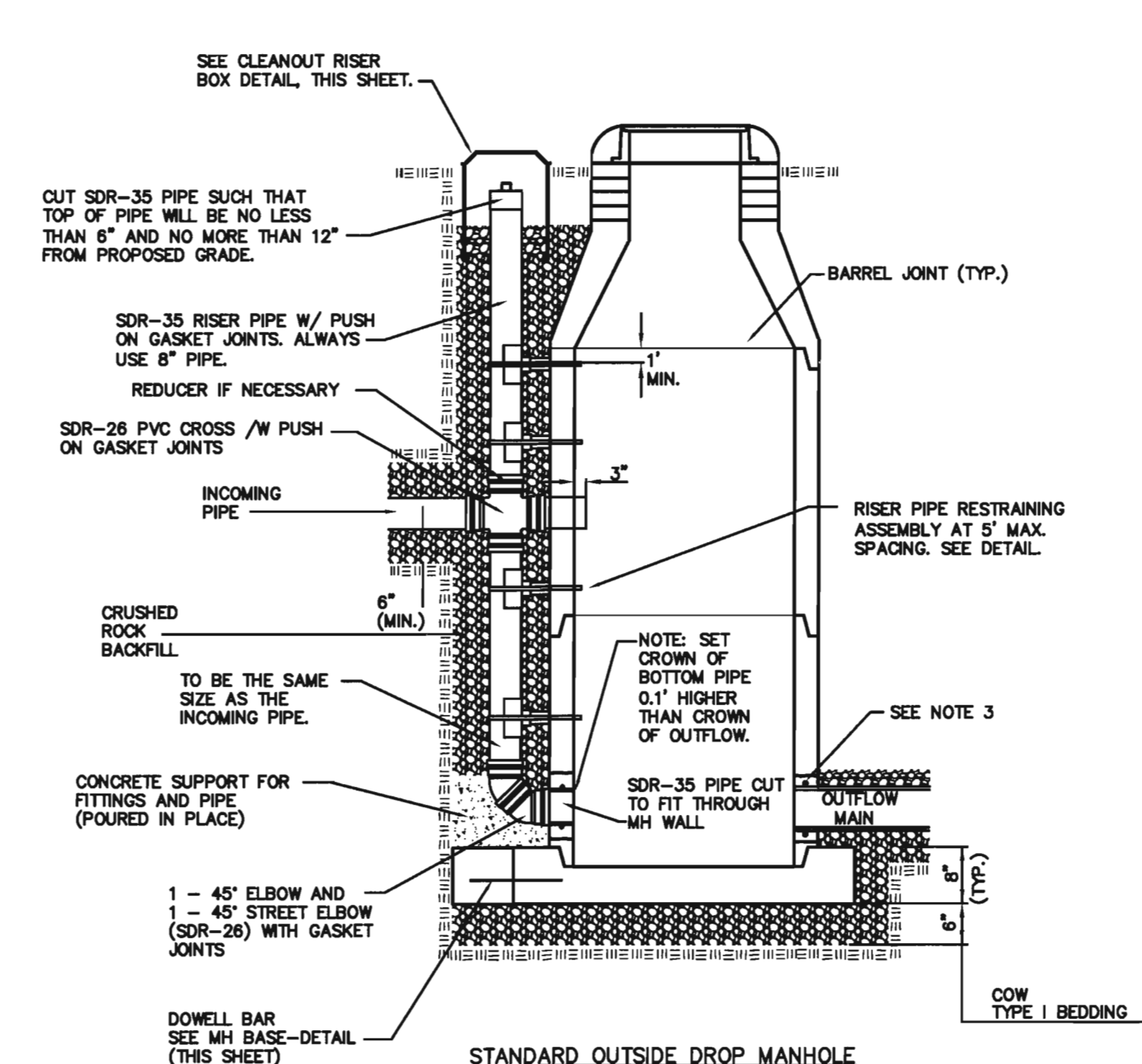
AS CONSTRUCTED
 INSP. *Sen* DATE 11-15-13
 REMARKS *See Plans*



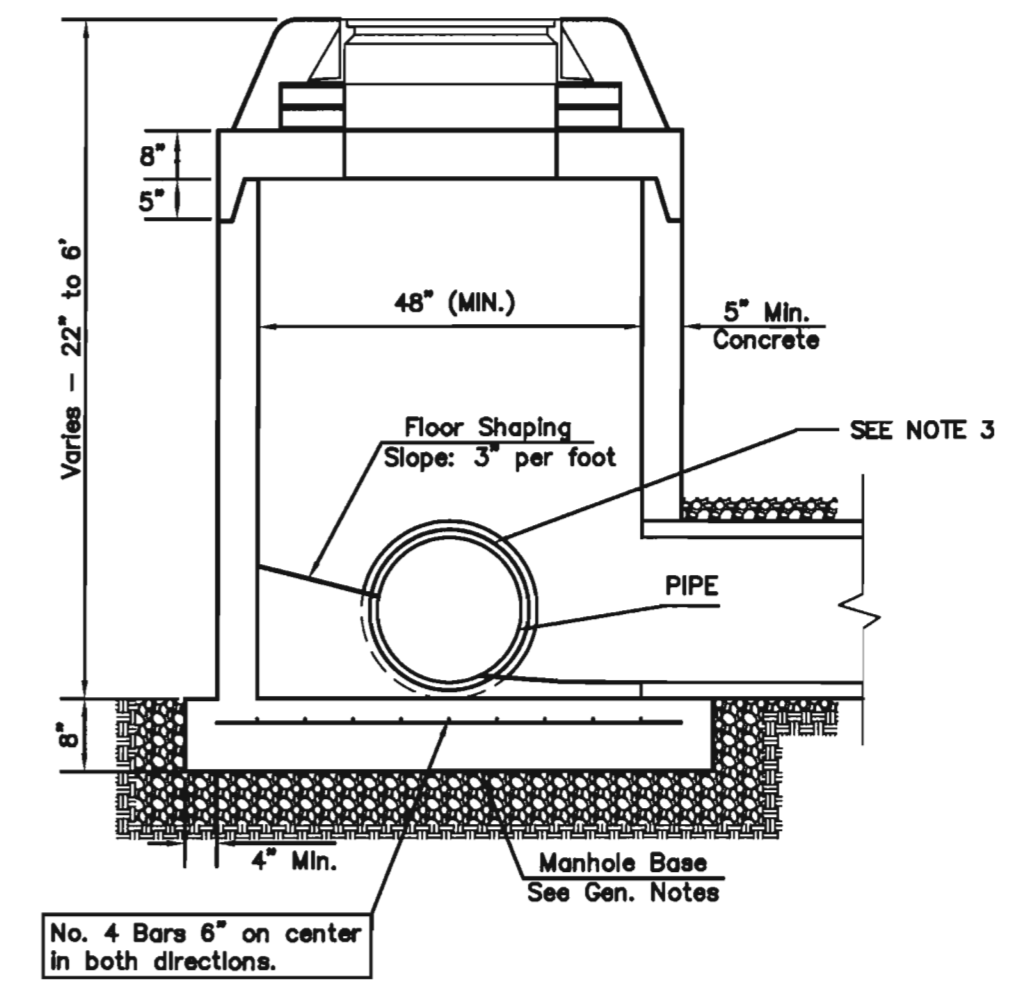
DOG HOUSE MANHOLE
(OVER EXISTING PIPE)
Not to Scale



STANDARD MANHOLE
Not to Scale



STANDARD OUTSIDE DROP MANHOLE
Not to Scale

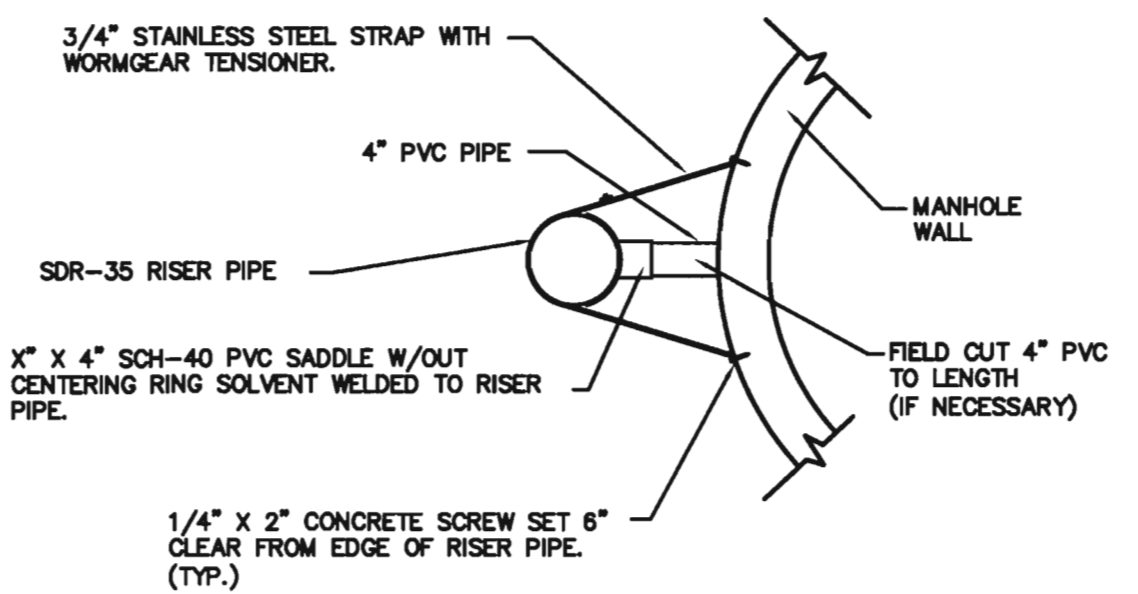


SHALLOW MANHOLE
Not to Scale

= COW TYPE I BEDDING
 = UNDISTURBED SOIL

PRECAST MANHOLE GENERAL NOTES

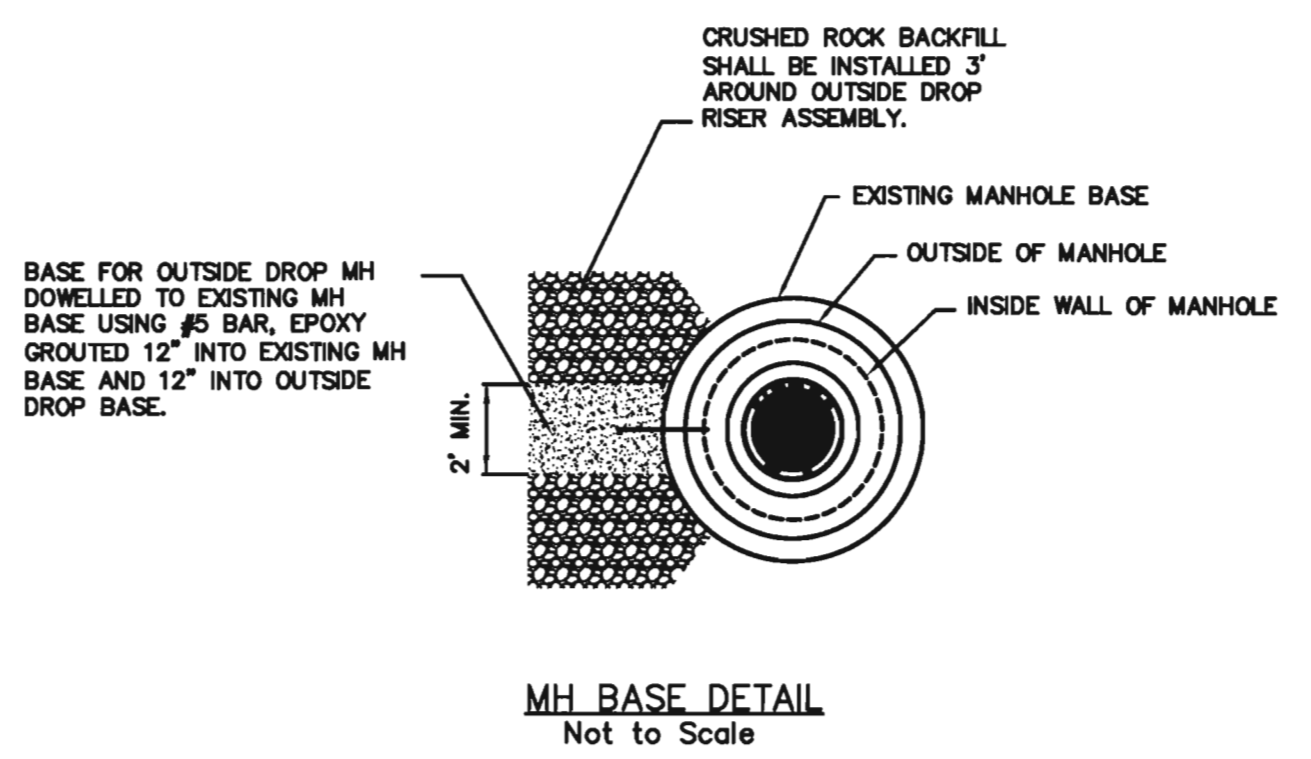
- ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISIONS OF A.S.T.M. C478 AS MODIFIED BY THE SPECIFICATIONS.
- NON-SHRINK GROUT SHALL BE NON-METALLIC TYPE.
- APPROVED FLEXIBLE WATERSTOP SHALL BE INSTALLED TO JOIN THE SEWER PIPE TO THE MANHOLE WALL. THE SEWER PIPE SHALL BE SUPPORTED WITH CRUSHED ROCK A MINIMUM OF 3 FEET FROM THE FEET FROM THE MANHOLE WALL AND TO THE FIRST JOINT FOR V.C.P. SUCH THAT THE JOINT REMAINS FLEXIBLE.
- ALL INSIDE SURFACES OF THE CONCRETE MANHOLE WHICH WOULD BE EXPOSED TO SEWER GAS SHALL BE COATED PER SECTION 804.4 OF STANDARD SPECIFICATIONS.
- EXTERIOR MANHOLE WALLS SHALL BE COATED PER SECTION 804.4 OF STANDARD SPECIFICATIONS.
- JOINT SEALING COMPOUND SHALL BE PER 804.4 OF STANDARD SPECIFICATIONS.
- ALL MANHOLE SECTION JOINTS THAT WILL BE IN GROUNDWATER OR GREATER THAN 12' DEEP SHALL BE WRAPPED WITH AN EXTERNAL JOINT SEAL PER SECTION 804.4 OF STANDARD SPECIFICATIONS, AS INDICATED BY THE PLANS.
- PRECAST MANHOLES SHALL BE SET AT LEAST 4 INCHES INTO THE MANHOLE BASE FOR DOG HOUSE MANHOLES.
- TOP OF MANHOLE FLOOR SLAB SHALL BE AT LEAST 3 INCHES BELOW THE FLOW LINE OF THE OUTLET PIPE TO INSURE SUFFICIENT MINIMUM THICKNESS OF SHAPED INVERT.
- LIFTING HOLES SHALL BE FILLED WITH NON-SHRINK GROUT AND THE INTERIOR SURFACE COATED AS SPECIFIED.
- MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD. CONCRETE USED IN MANHOLE BASES SHALL CONFORM TO THE REQUIREMENTS OF CONCRETE FOR CONCRETE PAVEMENT CONSTRUCTION AS SPECIFIED IN THE CITY STANDARD PAVING SPECIFICATIONS USING CITY CONCRETE PAVEMENT MIX WITHOUT AIR ENTRAINING ADMIXTURE. MORTAR SHALL BE PLACED AROUND THE MANHOLE RING AS SHOWN ON THE DRAWINGS WHEN MANHOLES ARE CONSTRUCTED IN UNPAVED AREAS. COMPLETED MANHOLE SHALL BE WITHOUT LEAKS AND WATER TIGHT.
- REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASES AND SHALL CONSIST OF NO.4 BARS PLACED ON 6" CENTERS IN BOTH DIRECTIONS. THE MANHOLE BASE REINFORCEMENT SHALL BE PLACED AT LEAST 3" ABOVE THE BOTTOM OF THE MANHOLE BASE. ALL COSTS FOR FURNISHING AND INSTALLING REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.
- WALL THICKNESS SHALL BE 1" GREATER THAN MANHOLE DIAMETER IN FEET.
- OPENINGS SHALL BE CORE DRILLED INTO THE MANHOLE WALL WHEN OUTSIDE DROPS ARE CONSTRUCTED ON EXISTING MANHOLES. SUCH OPENINGS DRILLED INTO EXISTING MANHOLES SHALL BE AS SMALL AS PRACTICAL TO FACILITATE INSTALLING AND GROUTING THE NEW PIPE IN PLACE. WATERSTOP GASKETS SHALL BE USED WITH P.V.C. PIPE. THE NEW PIPE SHALL BE GROUTED INTO THE OPENING USING AN APPROVED NONSHRINK GROUT FOR THE FULL MANHOLE WALL THICKNESS. THE EXTERIOR OF THE COMPLETED CONNECTION SHALL BE SEALED WITH AN APPROVED BITUMINOUS COATING SUCH THAT THE CONNECTION WILL BE WATER TIGHT. FLOOR OF MANHOLE SHALL BE MODIFIED TO FORM NEW FLOW CHANNEL FOR THE NEW CONNECTION AS INDICATED BY THE DRAWING. THIS WORK, INCLUDING MODIFICATION OF MANHOLE FLOOR, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR OUTSIDE DROP STACK CONSTRUCTED ON EXISTING MANHOLE.
- THE FLOORS OF ALL MANHOLES SHALL BE SHAPED WITH FLOW CHANNELS SUCH THAT THE MANHOLES WILL BE SELF CLEANING AND FREE OF AREAS WHERE SOLIDS COULD BE DEPOSITED AS SEWAGE FLOWS THROUGH THE MANHOLE FROM ALL INLET PIPES TO THE OUTLET PIPE. FLOW CHANNELS SHALL BE FORMED TO MATCH THE BOTTOM HALVES OF THE INFLOWING PIPES AND THE OUTFLOWING PIPE AS SHOWN BY THE DRAWINGS. MANHOLE FLOORS SHALL HAVE SLOPES OF 3 INCHES PER FOOT IN THE AREAS OUTSIDE OF THE FLOW CHANNELS SLOPED TOWARD THE FLOW CHANNELS. PIPES LAID THROUGH MANHOLES SHALL HAVE THE TOP HALF REMOVED TO NEAT LINES FOR THE FULL INSIDE DIAMETER OF THE MANHOLE. MANHOLE FLOORS SHALL THEN BE SHAPED AROUND THE BOTTOM HALF OF THE PIPE WHICH FORMS THE FLOW CHANNEL.
- MANHOLE COVER CASTINGS AND MANHOLE FRAME CASTINGS SHALL CONFORM TO THE REQUIREMENTS AS INDICATED IN THE STANDARD SPECIFICATIONS AND AS SHOWN IN THE STANDARD DETAIL DRAWING.
- THE VERTICAL DROP IN STANDARD MANHOLES SHALL NOT EXCEED 2' REGARDLESS OF PIPE SIZE. THE CROWNS OF INFLOWING PIPES SHALL NEVER BE SET LOWER THAN THE CROWN OF THE OUTFLOWING PIPE.
- STANDARD MANHOLES SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED. OUTSIDE DROP MANHOLES SHALL BE BID AS STANDARD OUTSIDE DROP MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4' UNLESS INDICATED OTHERWISE.
- PRECAST CONCRETE SPACERS OR BRICK MASONRY COLLAR SHALL BE INSTALLED BETWEEN THE CAST IRON FRAME AND THE CONCENTRIC CONE. THE COLLAR WILL HAVE 8" WALLS AND A VERTICAL HEIGHT OF 6" MINIMUM AND 18" MAXIMUM. A 1" COAT OF MORTAR WILL BE PLASTERED ON THE OUTSIDE OF THE COLLAR. THE USE OF PRE-CAST CONCRETE SPACERS FOR MANHOLE TOP ADJUSTMENT IS ALSO ALLOWED.
- THE FULL DIAMETER OF THE MANHOLE SHALL EXTEND THE ENTIRE DEPTH OF THE MANHOLE TO THE CONE SECTION. NO REDUCTION IN MANHOLE DIAMETER WILL BE ALLOWED.
- REFER TO PLANS FOR SIZE OF OUTSIDE DROP RISER, SADDLES AND CROSS.



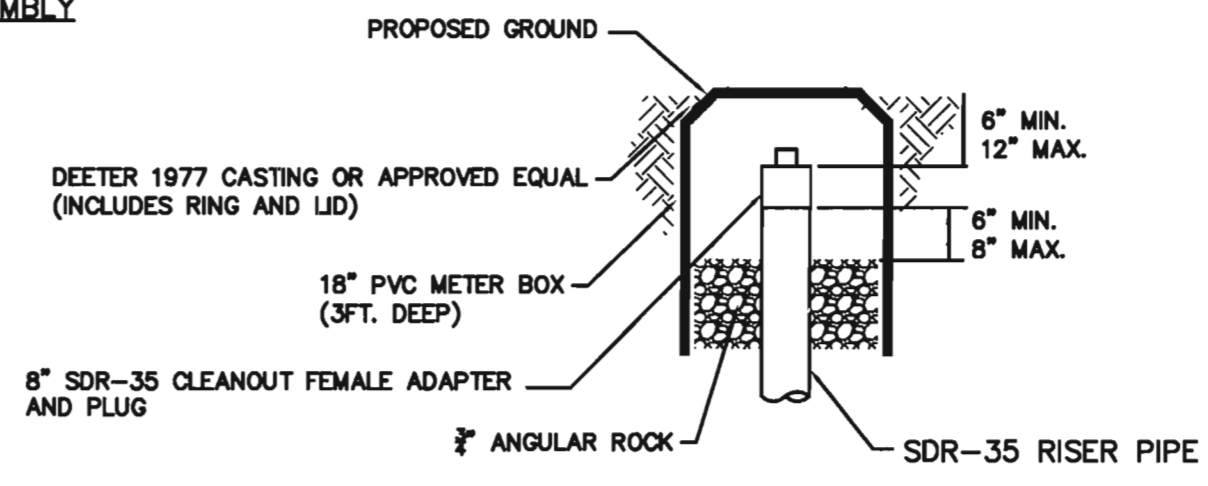
RISER PIPE RESTRAINING ASSEMBLY
Not to Scale

SANITARY SEWER MANHOLE DIAMETERS

DIAMETER	DEPTH	PIPE SIZE
4'	0'-15'	8"-18"
5'	15'-30'	21"-30"
6'	>30'	36"-60"



MH BASE DETAIL
Not to Scale



CLEANOUT RISER BOX DETAIL
Not to Scale



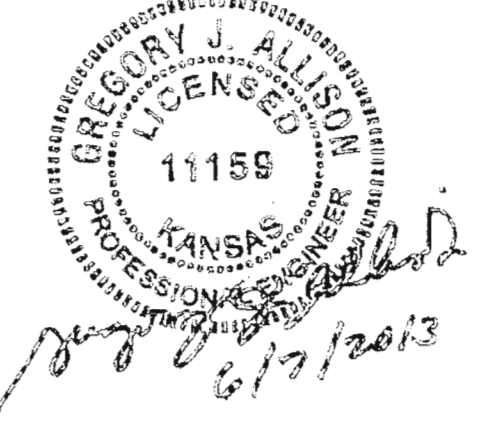
PRECAST SANITARY SEWER MANHOLE

CITY ENGINEER
GARY JANZEN, P.E.

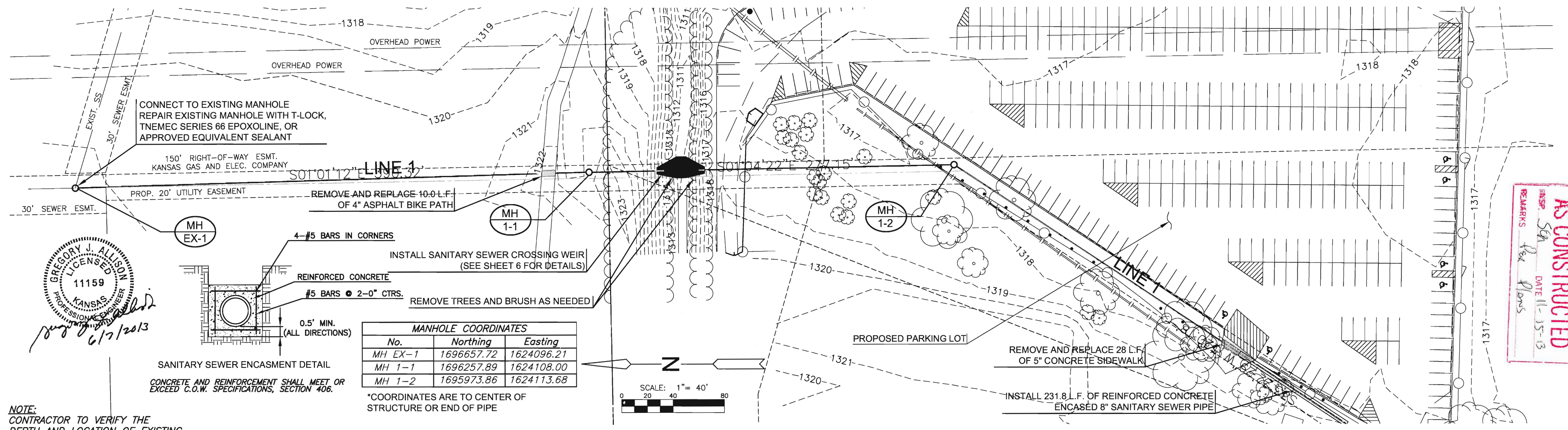
PROJECT NUMBER 1301010256	OCA NUMBER #####	DATE 08/2012
------------------------------	---------------------	-----------------

CITY ENGINEER'S OFFICE
 CITY HALL - SEVENTH FLOOR
 455 NORTH MAIN STREET
 WICHITA, KANSAS 67202-1620
 (316) 268-4501

DESIGN
 DRAWN
 SHEET
16 of 39



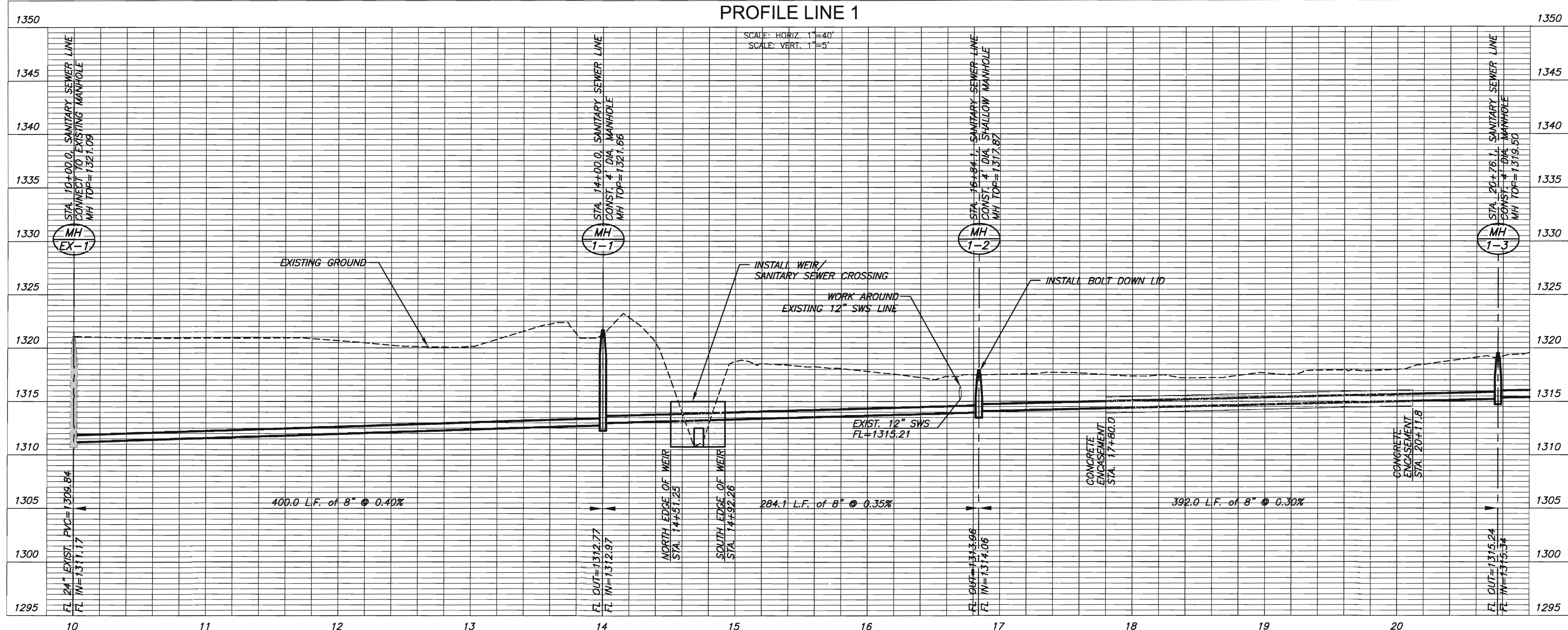
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GREGORY J. ALLISON
LICENSED PROFESSIONAL ENGINEER
KANSAS
11159
6/7/2013

NOTE:
CONTRACTOR TO VERIFY THE
DEPTH AND LOCATION OF EXISTING
UTILITIES PRIOR TO CONSTRUCTION.

PLAN LINE 1
PROFILE LINE 1



SANITARY SEWER PLANS FOR
WEST SEDGWICK COUNTY PARK
SANITARY SEWER & PARKING LOT IMPROVEMENTS

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LINE 1 PLAN
AND PROFILE

PROJECT NO.	1301010256
DATE	MAY 2013
SCALE	1"=40'
DESIGNED	SLF
DRAWN	SLF
CHECKED	GJA

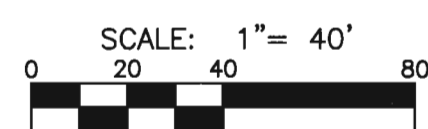
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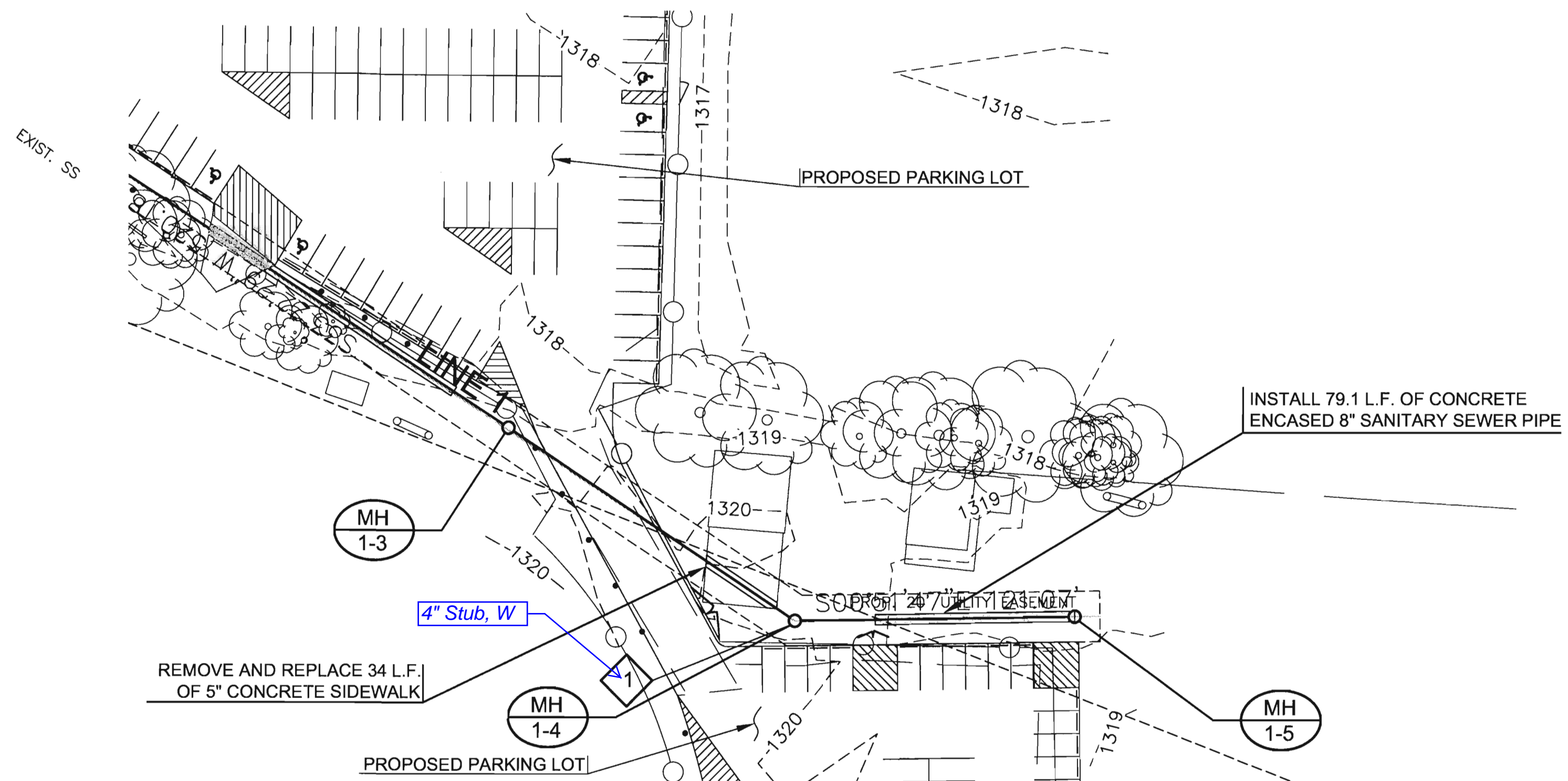
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MANHOLE COORDINATES		
No.	Northing	Easting
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MH 1-4	1695532.08	1623822.65
MH 1-5	1695421.02	1623824.33

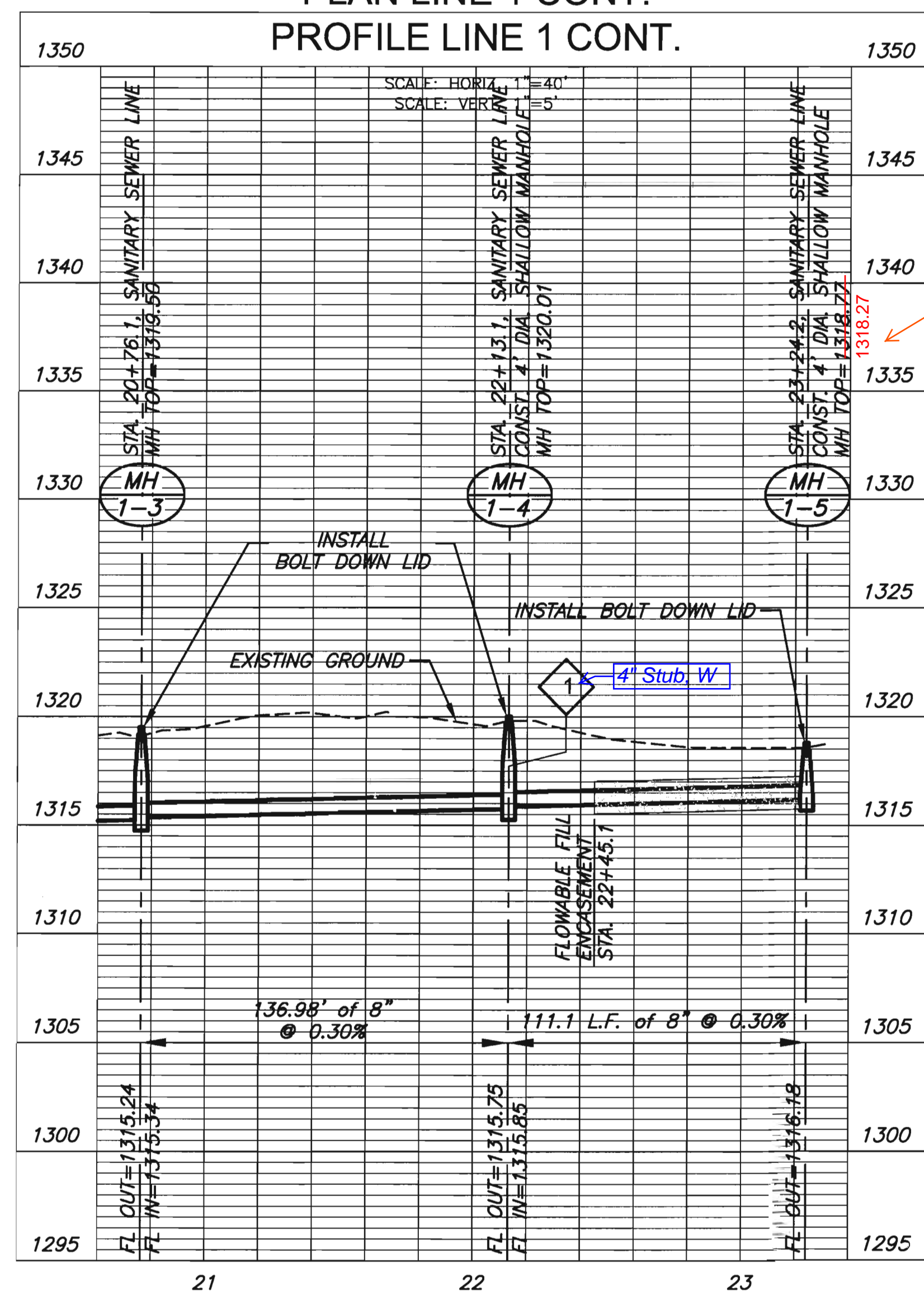
*COORDINATES ARE TO CENTER OF STRUCTURE OR END OF PIPE



NOTE:
CONTRACTOR TO VERIFY THE DEPTH AND LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.



PLAN LINE 1 CONT.
PROFILE LINE 1 CONT.



LEFT 1 - 6" SPACER OUT TO AVOID A RAISED MANHOLE COVER IN A PEDESTRIAN AREA

AS CONSTRUCTED
INSP. DATE
REMARKS

AS CONSTRUCTED
INSP. DATE 11-15-13
REMARKS per plans

GREGORY J. ALLISON
LICENSED PROFESSIONAL ENGINEER
11159
KANSAS
6/7/2013



SANITARY SEWER PLANS FOR
WEST SEDGWICK COUNTY PARK
SANITARY SEWER & PARKING LOT IMPROVEMENTS

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LINE 1 PLAN AND PROFILE

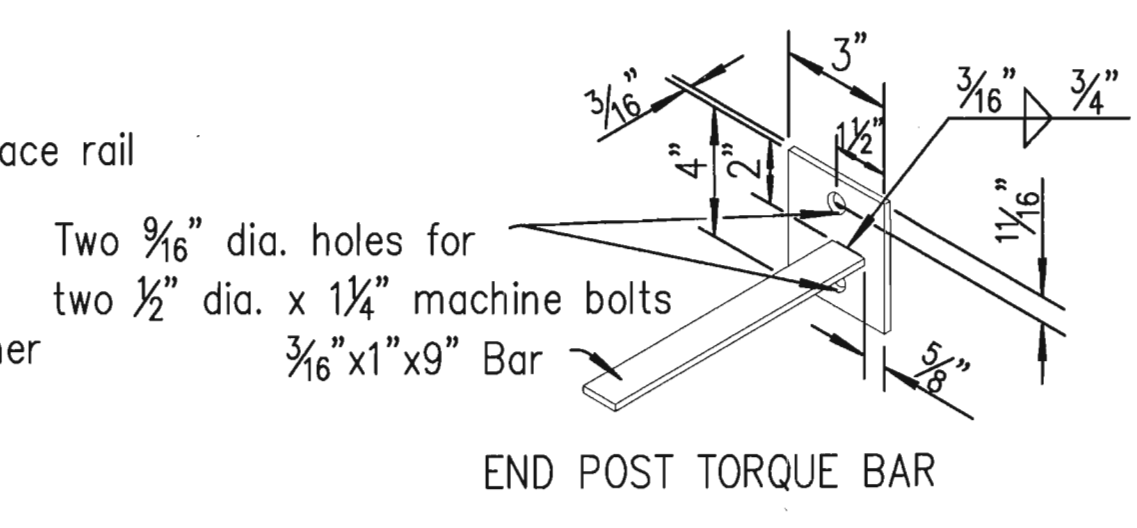
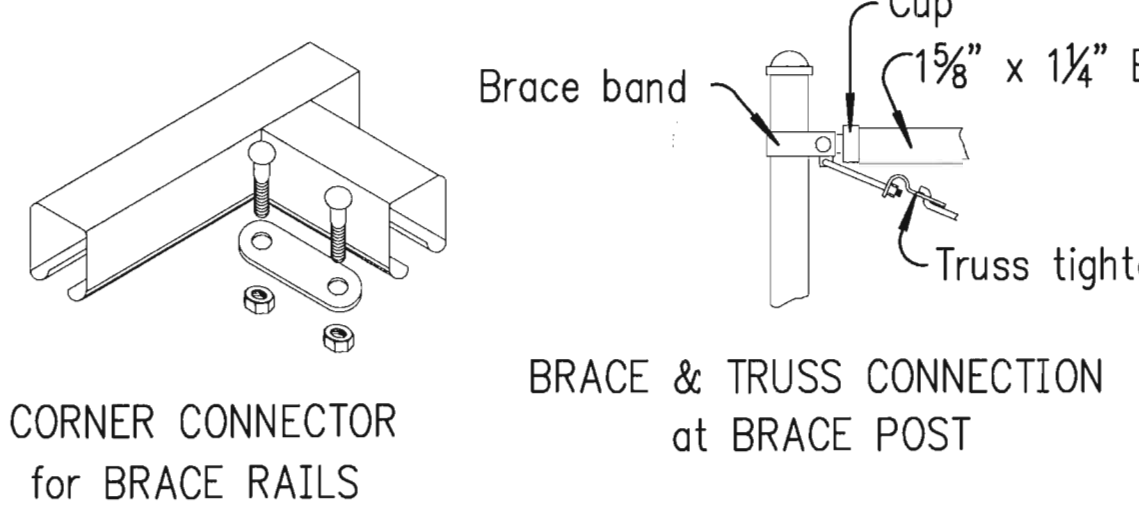
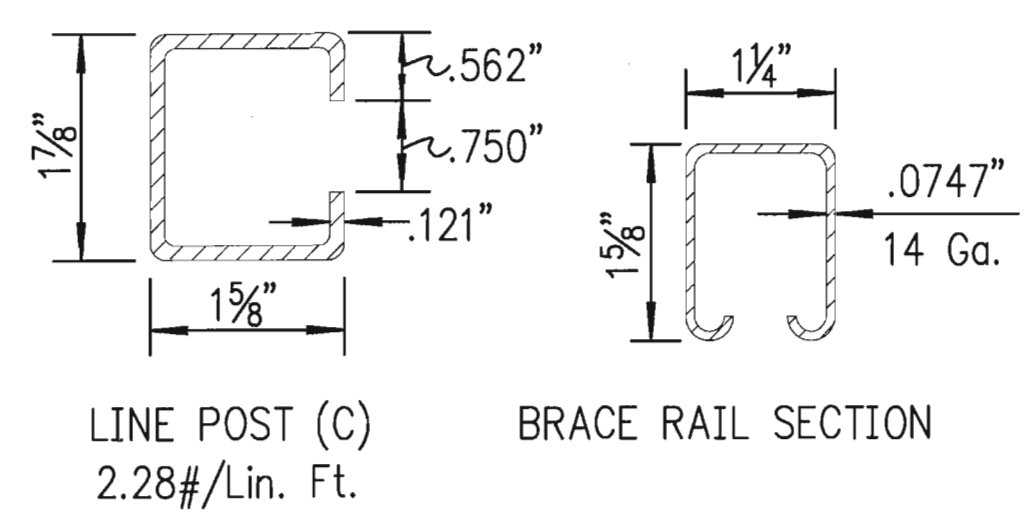
PROJECT NO.	1301010256
DATE	MAY 2013
SCALE	1"=40'
DESIGNED	SLF
DRAWN	SLF
CHECKED	GJA

#	REVISION	DATE

SHEET NO.
18 OF 39

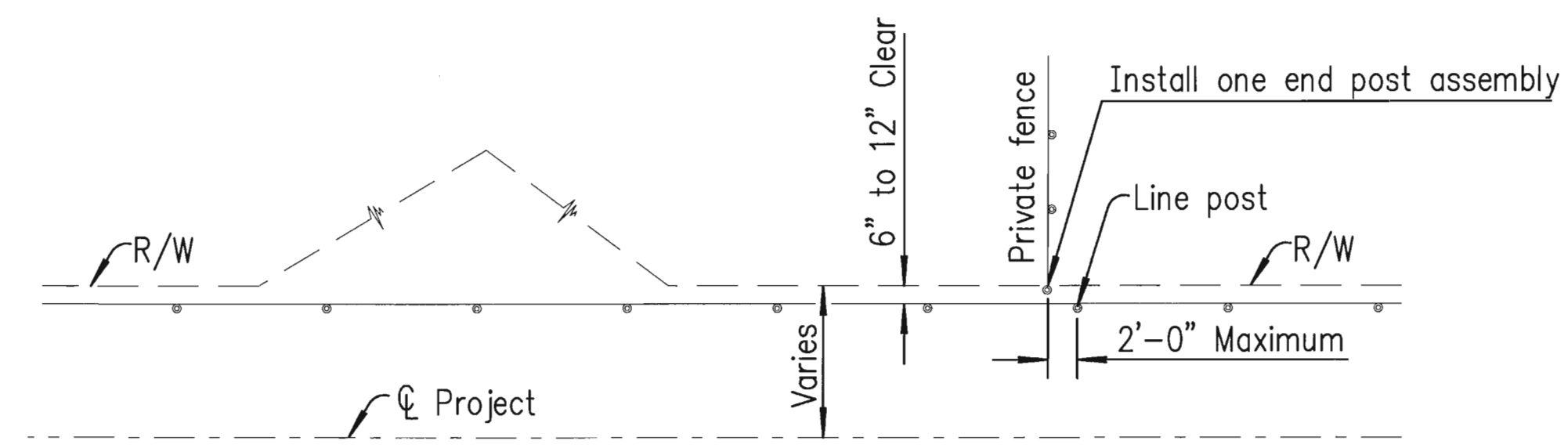
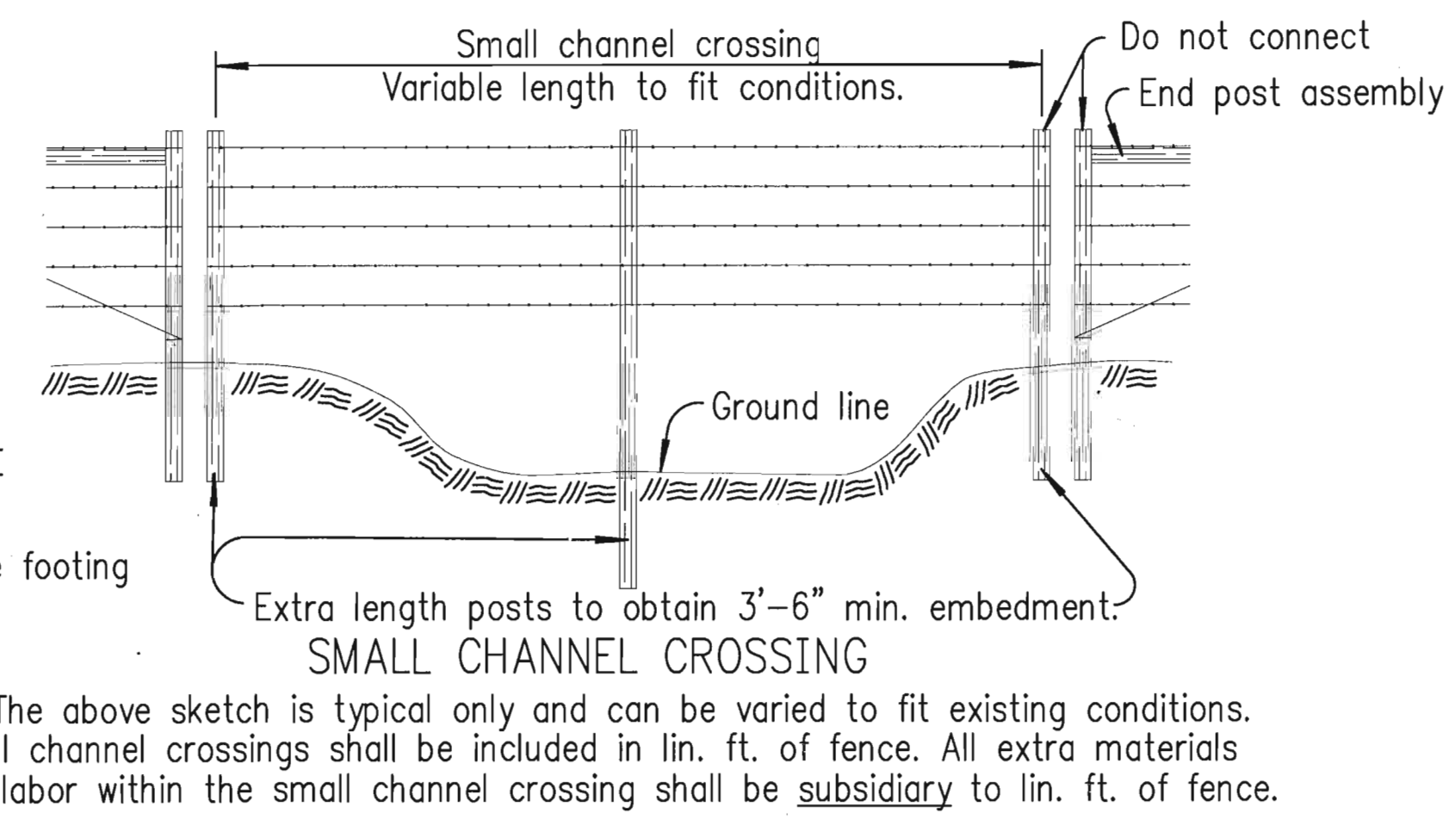
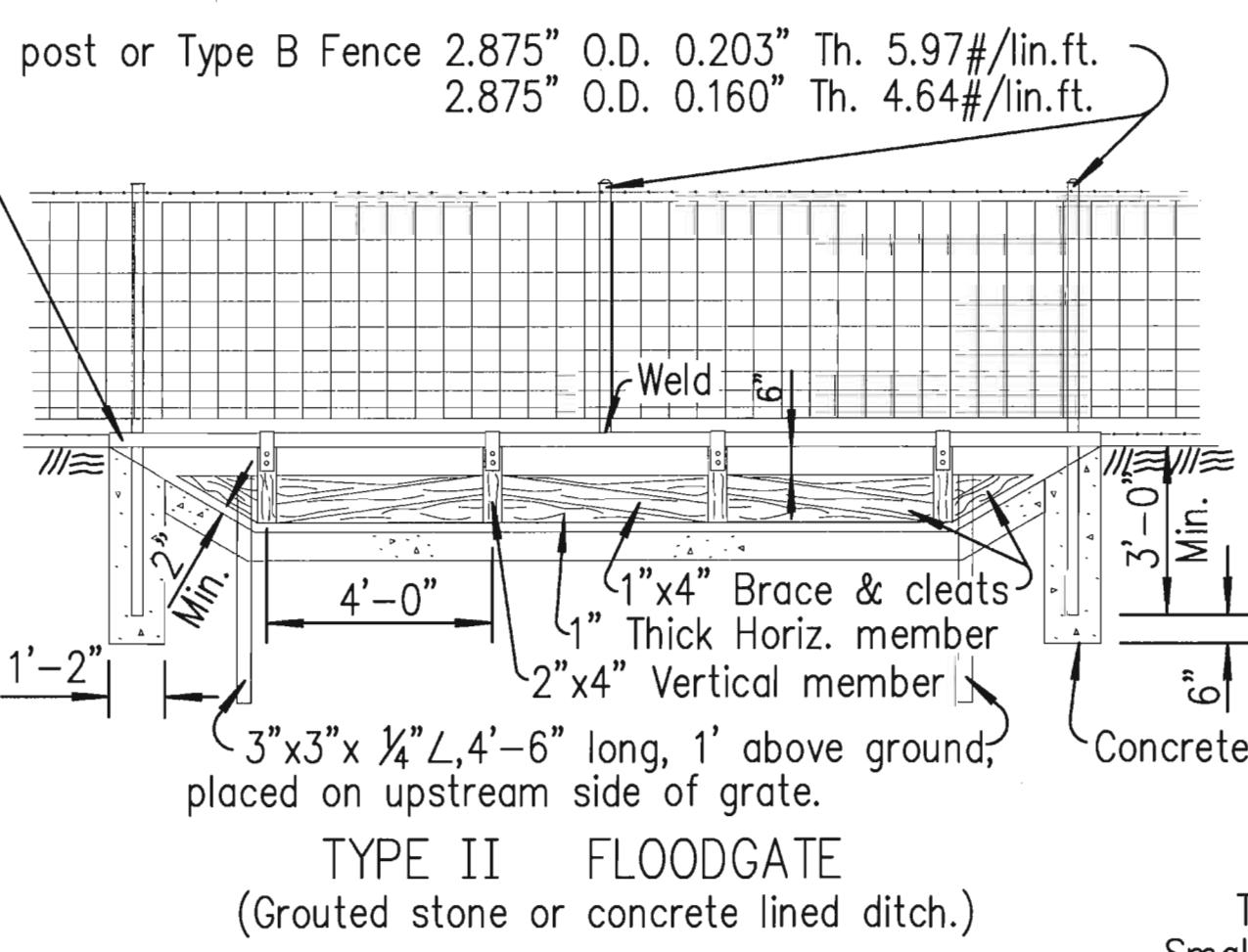
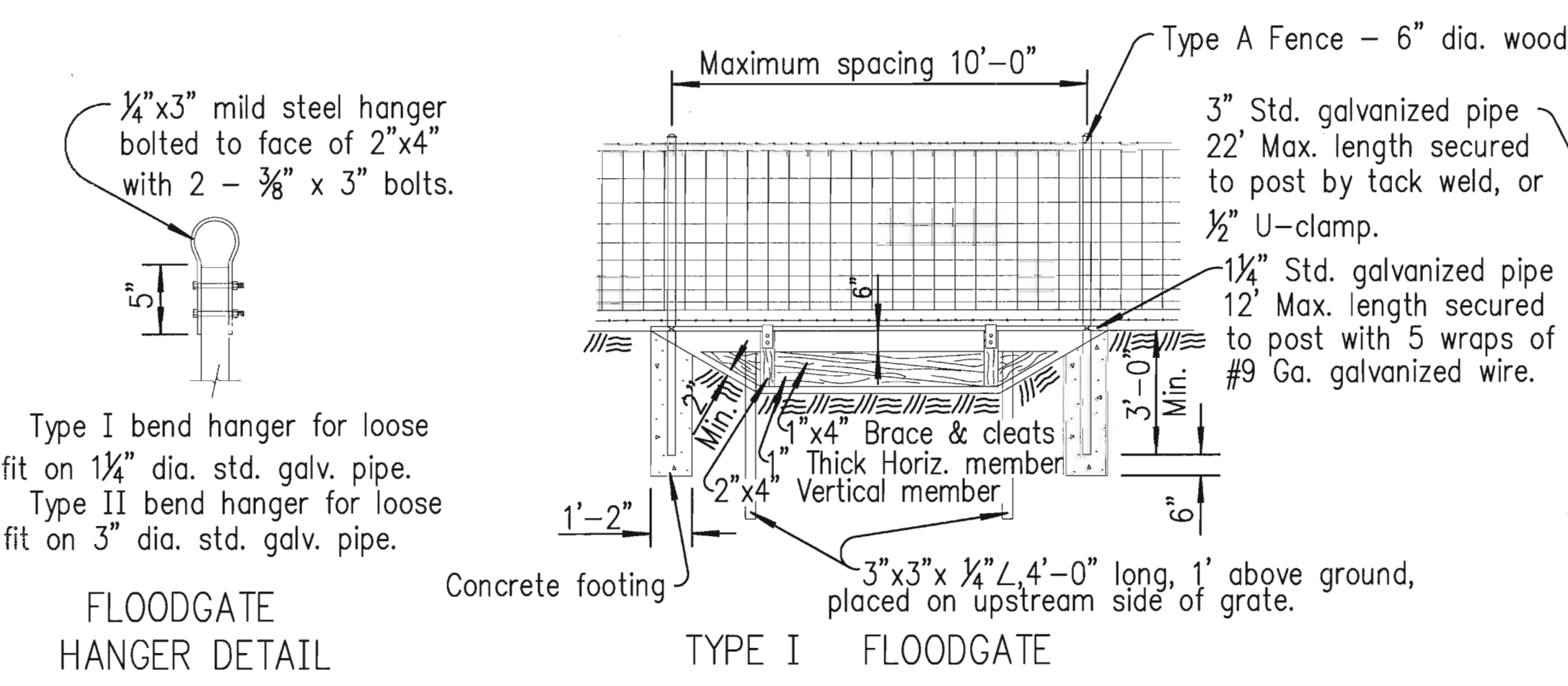
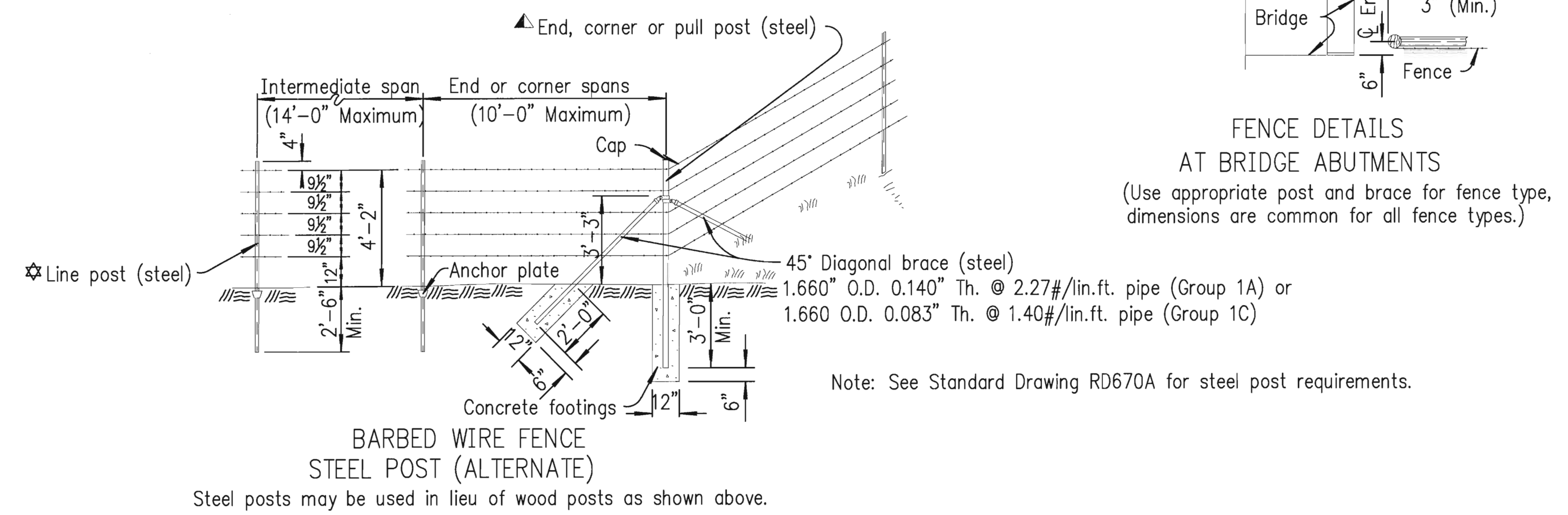
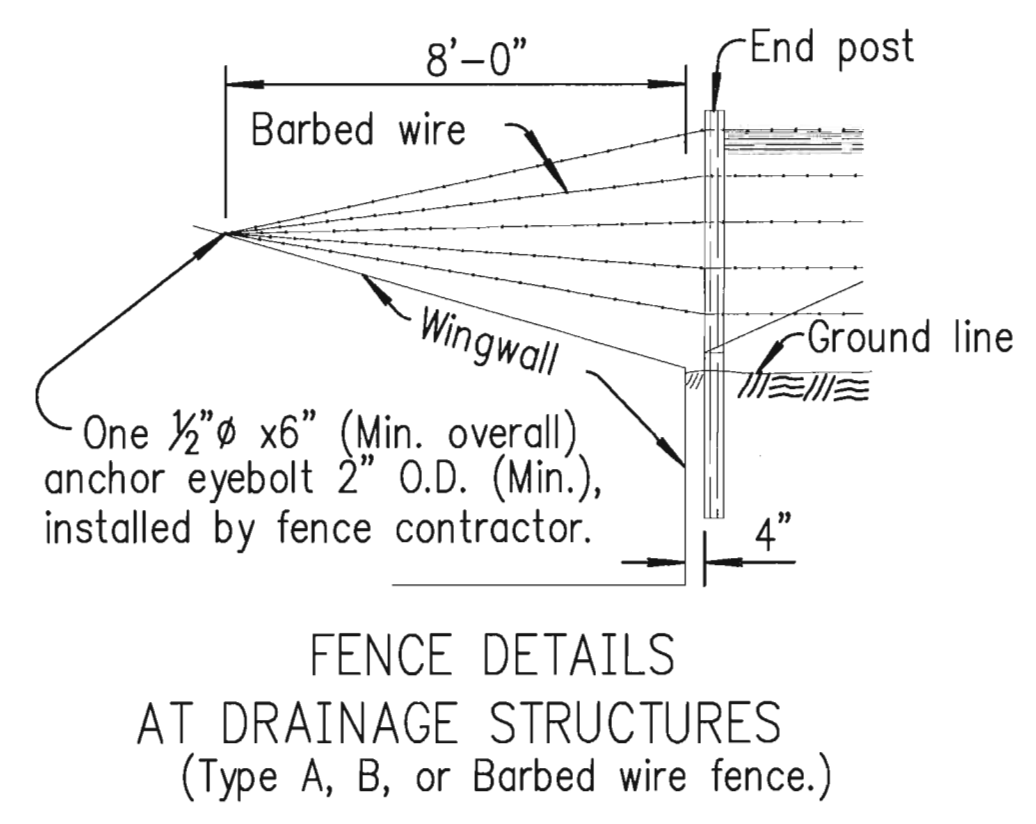
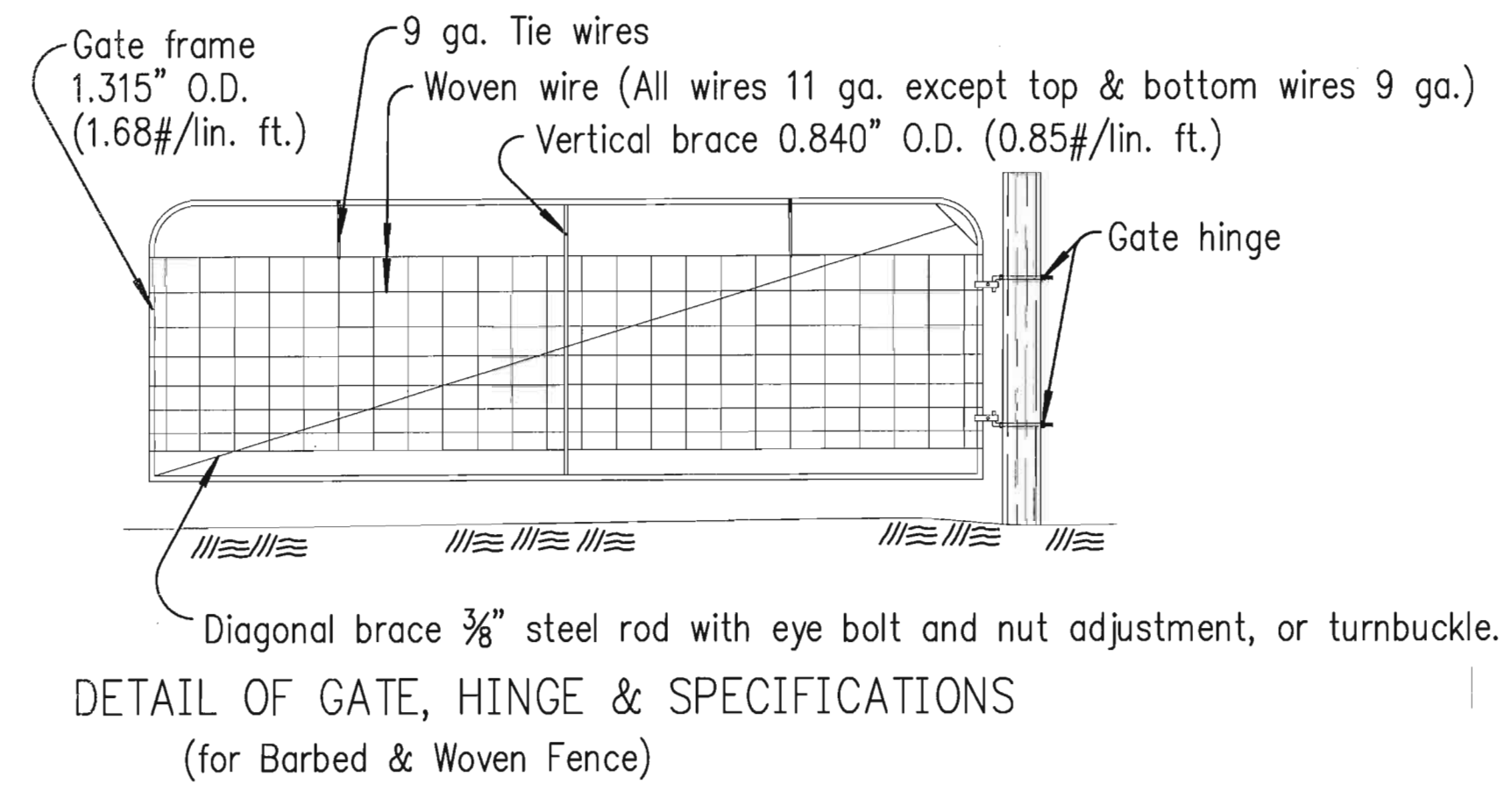
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STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	SCP-1	2013	21	39

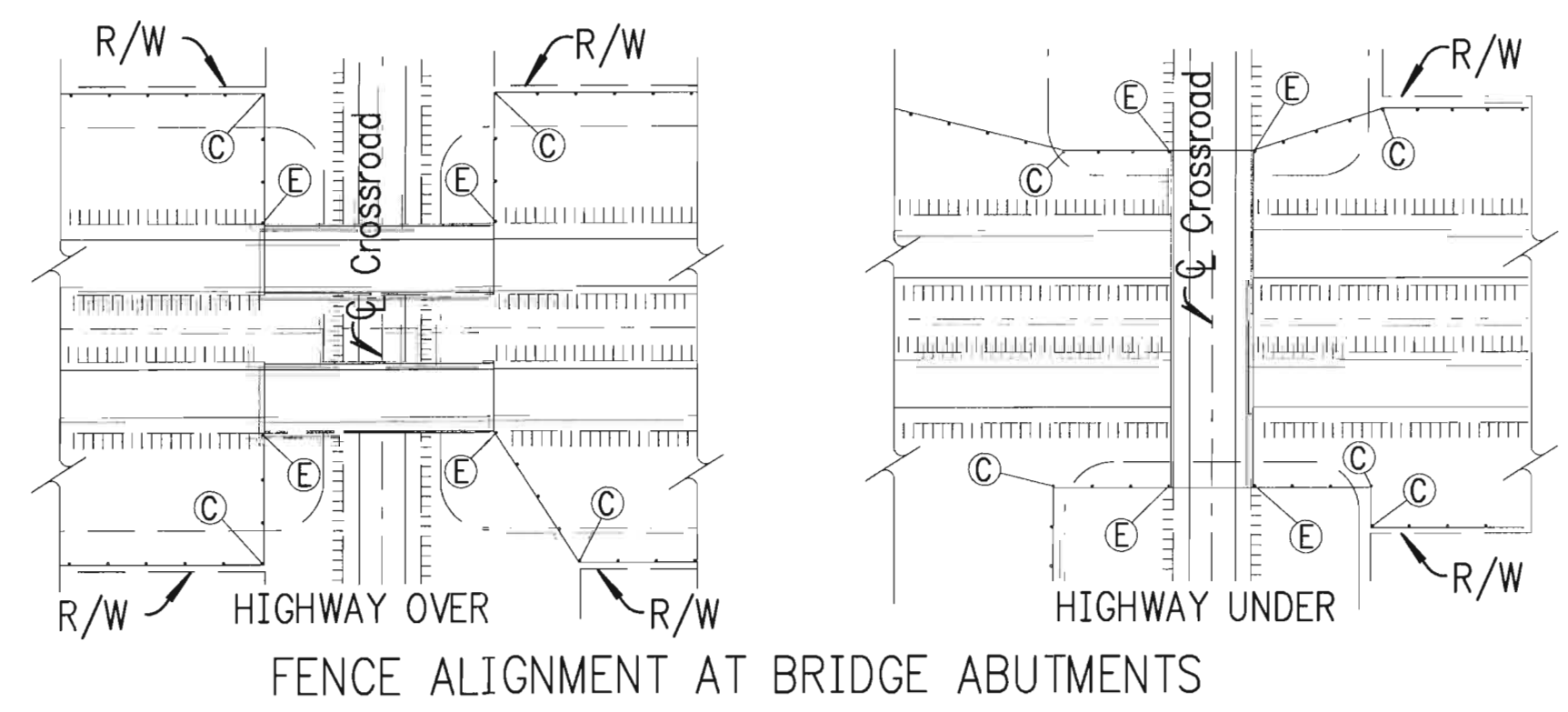
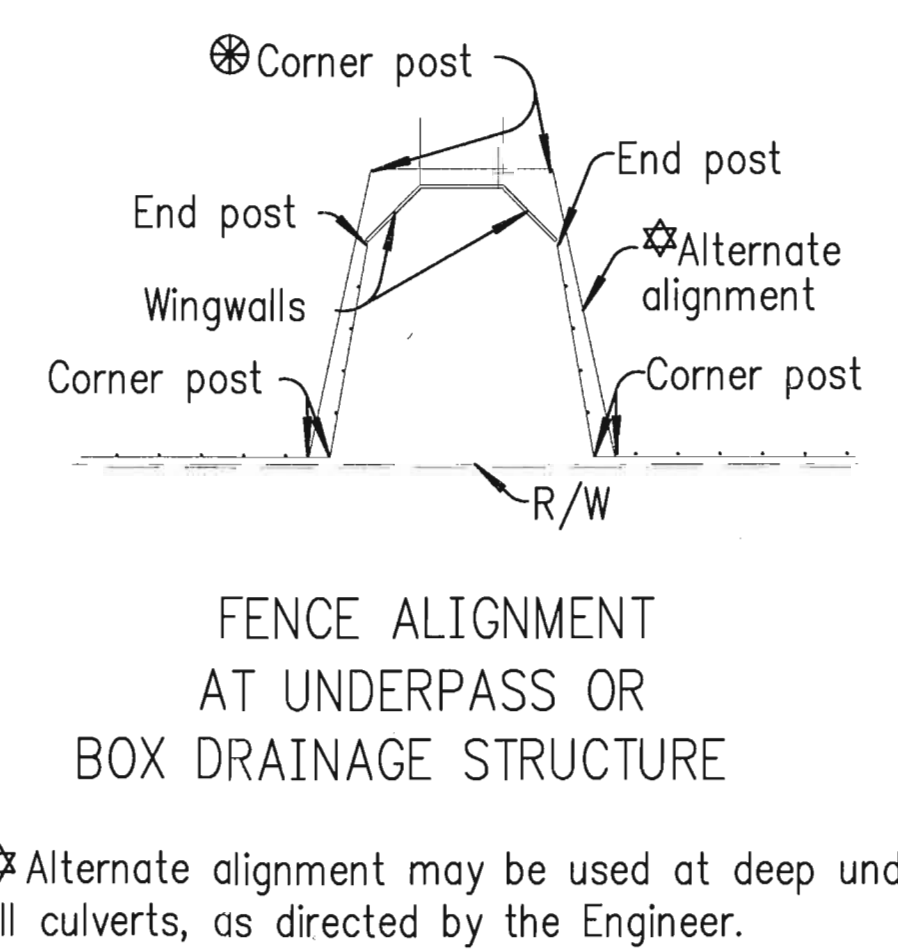


ALTERNATE CHAIN LINK DETAILS

GENERAL NOTE
A line post shall be used in the KDOT fence at each private cross fence, and the contractor shall make a temporary connection. This work shall be subsidiary to other bid items.
In general, where needed, use small channel crossing as shown, Type I and Type II Floodgates will be used very seldom.



Note: Right of Way fence shall generally be set parallel to and 6" to 12" clear from the Right of Way line.
The alignment layouts as shown are typical, but are not representative of all situations that may occur. Construction may be varied, as required to meet field conditions and/or as directed by the Engineer.
The access control fence shall be attached to the private fence end post assembly using leader wires or staples.



Where fence installation over a drainage structure is located within the clear zone, horizontal bracing at the corner posts will not be permitted. An alternate design utilizing diagonal bracing shall be provided.

7	7-28-09	Revised Steel size listing	S.W.K.	J.O.B.
6	11-02-04	Revised General Note	S.W.K.	J.O.B.
5	5-30-02	Removed KDOT ownership sign.	S.W.K.	J.O.B.
4	12-30-97	Connect to Private Fence End Post	R.J.S.	J.O.B.
NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION

INSTALLATION DETAILS
BARBED, WOVEN, & CHAIN LINK

RD670B

FHWA APPROVAL	12-16-09	APP'D. James O. Brewer
DESIGNED	DETAILS	QUANTITIES
DESIGN CK.	DETAIL CK.	QUAN. CK.

TRACED Bowser
TRACE CK. King

Device: DWFx EPlot (XPS Compatible).pc3 Page Setup: 1050C 36x22 Mono Final By: Packer, Lynn T. O: \Projects\Sedgwick County Sports Complex\RD670B.DWG Layout: Rd670b Plotted: 6/9/2013 9:22 PM

COUNTY	STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
SEDGWICK	KANSAS	SCP-1	2013	22	39

SUMMARY OF RESERVED PARKING SIGNS							
LOCATION	LOT	MUTCD NO.	SIZE	CONFIGURATION TYPE [§]	MOUNTING TYPE		REMARKS
					FENCE (EA.)	POST (EA.)	
Main Entrance	A	R7-8	12"x18"	C	2		
Southeast Corner	A	R7-8	12"x18"	C	2		
Southeast Corner	A	R7-8	12"x18"	D	1		Includes Double Arrow Sign Assembly
Middle	A	R7-8	12"x18"	A		2	
South Line	A	R7-8	12"x18"	C	4		
Entrance Area	B	R7-8	12"x18"	C	1		
Entrance Area	B	R7-8	12"x18"	A		1	
South Line	B	R7-8	12"x18"	C	4		
TOTALS					14	3	

[§] See Sh. No. 31 for configuration type details.

SUMMARY OF CEMENTITIOUS SLURRY TREATED BASE (SPECIAL)	
LOCATION	CEMENT. SLURRY TREATED BASE (SPECIAL) (8") (SQ. YDS.)
Lot "A"	11,158.0
Lot "B"	13,570.5
TOTALS	24,728.5

SUMMARY OF ROLLER COMPACTED CONCRETE		
LOCATION	RCC PAVEMENT (5" UNIFORM) (SQ. YDS.)	REMARKS
Lot "A"	11,158.0	
Lot "B"	13,570.5	
TOTALS	24,728.5	

SUMMARY OF CHAIN LINK FENCE (REMOVAL AND RESETTING) [¶]							
GENERAL LOCATION	SIDE	LENGTH (L.F.)	POSTS			GATE	REMARKS
			COR.	END	PULL		
Lot B		100.0					
TOTALS		100.0					

[¶] See General Notes Sh. No. 2 for information about this bid item.

SUMMARY OF REMOVE AND REPLACE		
LOCATION	4" ASPHALT BIKE PATH (L.F.)	5" CONCRETE SIDEWALK (L.F.)
Line 1, Sta. 13+90	10	
Line 1, Sta. 19+75		62
TOTALS	10	62

SUMMARY OF WHEEL STOP (CONCRETE)		
LOCATION	LOT	QUANTITY (EACH)
South Edge	A	79
Middle; Handicap	A	2
South Edge	B	33
TOTALS		114

NOTE: See Sh. No. 14 for details.

EARTHWORK NOTES

Quantities shown for "Common Excavation" are for excavation within the project limits.

No separate measurement or payment will be made for initial consolidation and settlement. These items shall be SUBSIDIARY to other earthwork bid items.

The Contractor shall place 6" of top soil in all areas to be seeded. This material shall be obtained by striping soil from within the construction limit and shall be free of rocks, rubble, trash and other foreign or toxic material and shall be capable of supporting vegetation. No separate measurement or payment will be made for placing topsoil on this project.

Double handling of material stockpiled, over excavation and placement of material through cuts and over excavation and replacement of material to the original ground line through fills is not quantified and shall be SUBSIDIARY to other earthwork bid items.

This project will not include payment for overhaul. Stockpiling of excavated material due to staged construction and/or double handling of excavated material required to complete the embankment will not be paid for separately, but shall be SUBSIDIARY to other earthwork bid items.

SUMMARY OF SIDEWALK CONSTRUCTION (4") (AE)					
LOCATION	LOT	WIDTH (FT.)	SIDEWALK 4" (AE) (SQ. YDS.)	SIDEWALK RAMPS (SQ. YDS.)	REMARKS ^A
Southeast	A	5	5.6	--	Includes 1-60"x24" ADA panel.
South	A	5	5.6	--	Includes 1-60"x24" ADA panel.
Southwest	A	5	5.6	--	Includes 1-60"x24" ADA panel.
East Side	A	4	19.1	--	Includes 1-48"x24" ADA panel.
Southeast	B	5	5.6	--	Includes 1-60"x24" ADA panel.
Southwest	B	5	5.6	--	Includes 1-60"x24" ADA panel.
TOTALS			47.1		

^A See General Notes Sh. No. 2 for details about composite panels with truncated domes.

SUMMARY OF SANITARY SEWER							
STATION	8" PIPE (L.F.)	6" RISER ASSY. (EACH)	4' MH, STANDARD (EACH)	4' MH, SHALLOW (EACH)	MH, CONN. TO EXIST. (EACH)	REINF. CONC. ENCASEMENT (L.F.)	FILL, FLUSHED AND VIBRATED (L.F.)
Sta. 10+00 to Sta. 17+80	1,324.2				1		
Sta. 10+00							
Sta. 14+00			1				
Sta. 13+63 to Sta. 13+73							10
Sta. 16+84.1				1			
Sta. 15+07 to Sta. 15+17							10
Sta. 17+80 to Sta. 20+11.8						231.8	
Sta. 19+33 to Sta. 19+63							29
Sta. 20+76.1				1			
Sta. 20+93 to Sta. 21+49							56
Sta. 21+70 to Sta. 22+04							34
Sta. 22+13.1				1			
Sta. 22+13.1		1					
Sta. 22+45.1 to Sta. 23+24.2						79.1	
Sta. 23+24.2				1			
TOTALS	1,324.2	1	1	4	1	310.9	139

RECAPITULATION OF QUANTITIES		
ITEM	QUANTITY	UNIT
Contractor Construction Staking	Lump Sum	L.S.
Mobilization	Lump Sum	L.S.
Maintenance and Restoration of Haul Roads (Set Price)	Lump Sum	L.S.
Clearing and Grubbing	Lump Sum	L.S.
Common Excavation	592	Cu. Yd.
Common Excavation (Contractor Furnished)	226	Cu. Yd.
Cementitious Slurry Treated Base (Special) (8")	24,729	Sq. Yd.
Compaction (Type B) (MR-90)	712	Cu. Yd.
Roller Compacted Concrete (5" Uniform)	24,729	Sq. Yd.
Sidewalk Construction (4") (AE)	47	Sq. Yd.
SS Stream Crossing Structure	Lump Sum	L.S.
Remove and Replace, 4" Asphalt Bike Path	10	L.F.
Remove and Replace, 5" Concrete Sidewalk	62	L.F.
SS Pipe Reinforced Concrete Encasement	311	L.F.
Pipe, SS 8"	1,325	L.F.
Riser Assembly 6", Vertical	1	Each
MH, Standard SS (4')	1	Each
MH, Shallow SS (4')	4	Each
MH, Connect to Existing	1	Each
Fill, Sand (Flushed and Vibrated)	139	L.F.
Site Restoration	Lump Sum	L.S.
Fence (Chain Link) (Removal and Resetting)	100	L.F.
Pavement Marking (Paint) (White) (4")	17,319	L.F.
Pavement Marking Symbol (Paint) (White) (Handicap)	18	Each
Reserved Parking Signs (Fence Mount)	14	Each
Reserved Parking Signs (Post Mount)	3	Each
Wheel Stop (Concrete)	114	Each
Traffic Control	Lump Sum	L.S.
For Stream Crossing Structure information, see Sh. No. 19.		
For Temporary Erosion and Pollution Control quantities, see Sh. No. 24.		
For Permanent Seeding quantities, see Sh. No. 30.		
For Summary of Signing quantities, see Sh. No. 31.		
For Summary of Pavement Marking quantities, see Sh. No. 32.		

NOTES

At the Contractor's option, concrete may be used to patch the bike path which will be partially removed during sanitary sewer construction. There will be no increase in the unit bid price for completing such work. The contract unit price for "Remove and Replace, 4" Asphalt Bike Path" shall be full compensation for properly replacing the pavement according to the standards set forth in the Contract Documents.

Detectable warning panels that meet the requirements of the Americans with Disabilities Act (ADA) are required to be installed with the sidewalks at locations noted in these plans. The panels shall be made of a composite-type material. Any panel not on the KDOT prequalified list must be approved by the Engineer prior to installation. The color of the panel shall either be Federal Yellow or Brick Red, which shall be used consistently throughout the project. All materials and labor to install composite panels with truncated domes are SUBSIDIARY to the bid item, "Sidewalk Construction (4") (AE)."

SUMMARY OF EARTHWORK QUANTITIES									
LOCATION	EXCAVATION				COMPACTION (IN FILL)			WASTE ^ψ	
	COMMON		CONTRACTOR FURNISHED		ROCK		TYPE B (MR-90)	COMMON	ROCK
	C.Y.	V.M.F.	C.Y.	V.M.F.	C.Y.	V.M.F.	C.Y.	C.Y.	C.Y.
Parking Lots A & B	592	0.87	226	0.87	--	--	712	0	0
TOTALS	592		226				712	0	0

^ψ For information only.

West Sedgwick County Park Improvements

SUMMARY OF QUANTITIES

PREPARED BY SEDGWICK COUNTY PUBLIC WORKS HIGHWAY DEPARTMENT					
DAVID C. SPEARS, P.E.			DIRECTOR/COUNTY ENGINEER		
REVISED	SCALE	DESIGNED	DRAWN	CHECKED	SHEET NO.
	NONE	L.T.P.	L.T.P.	L.T.P.	22
	DATE	6/2013	6/2013	6/2013	

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COUNTY	STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
SEDGWICK	KANSAS	SCP-1	2013	23	39

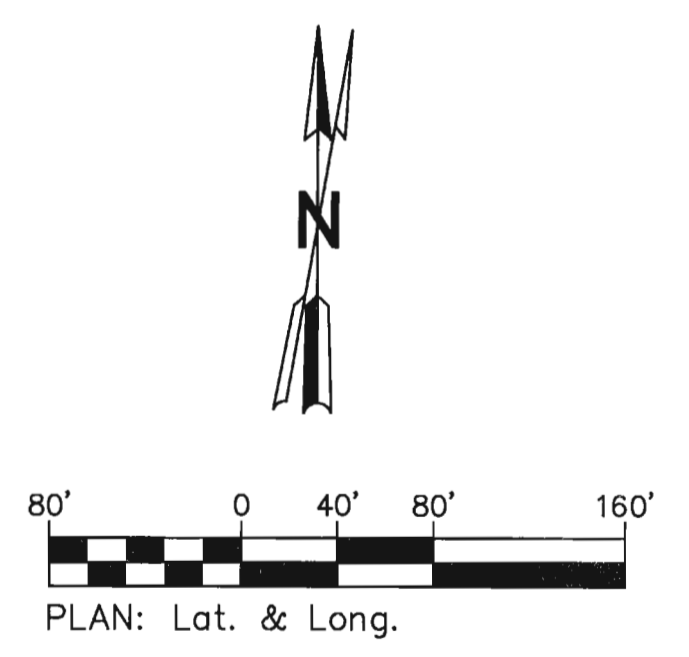
ITEM	L.F.
Silt Fence	2794
Inlet Sediment Barrier	104
Ditch Check	30

^A Silt Fence and Inlet Sediment Barrier quantities provided for information only.

Estimated total disturbed area = 6.5 Acres

LEGEND

- Ditch Check
- Silt Fence
- 10' Pedestrian Walk Way (Mulch)
- Inlet Sediment Barrier
- ← General Drainage Direction



**West Sedgwick County Park Improvements
Erosion Control Plan**

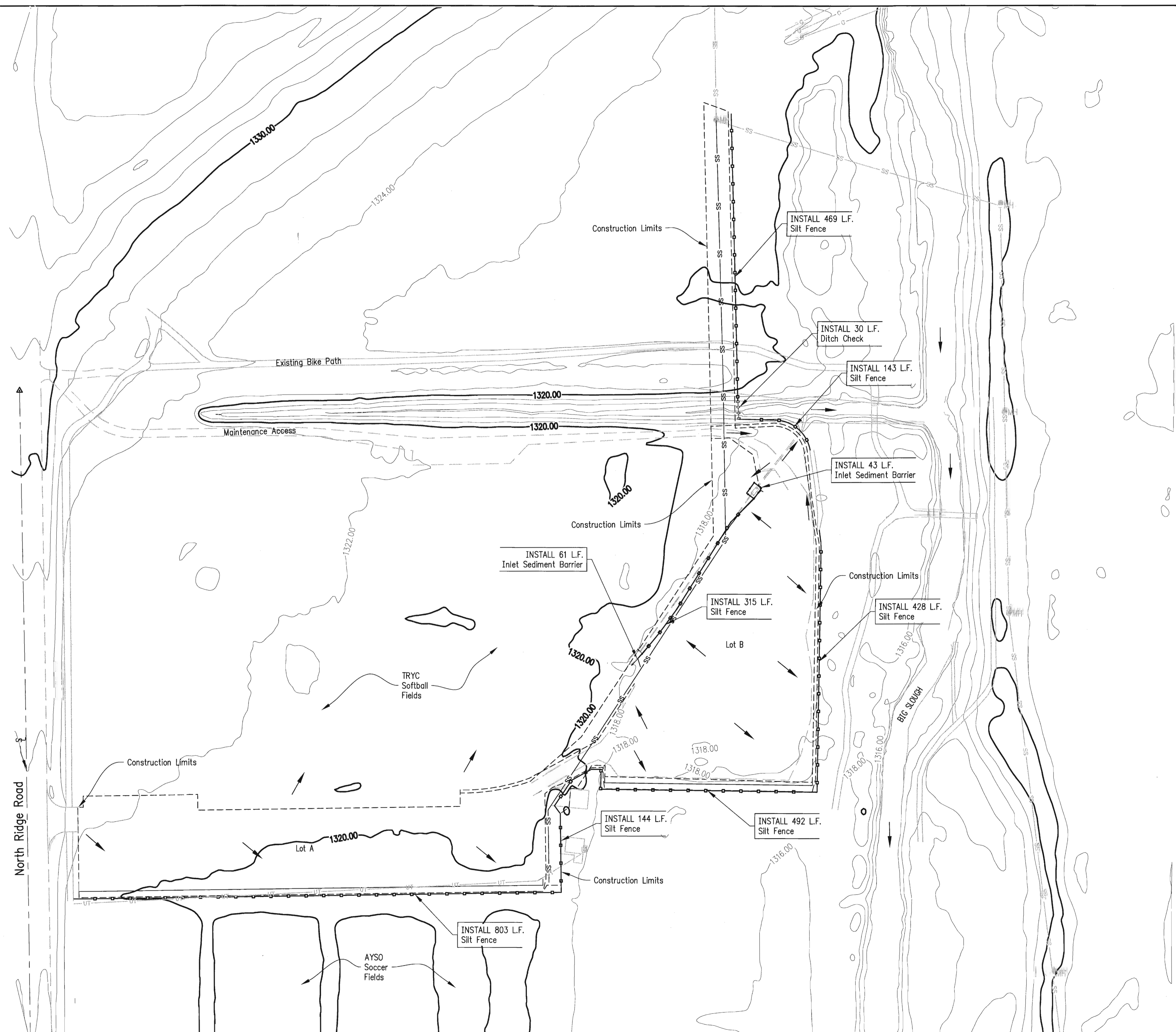
PREPARED BY
SEDGWICK COUNTY PUBLIC WORKS
HIGHWAY DEPARTMENT

DAVID C. SPEARS, P.E. DIRECTOR/COUNTY ENGINEER

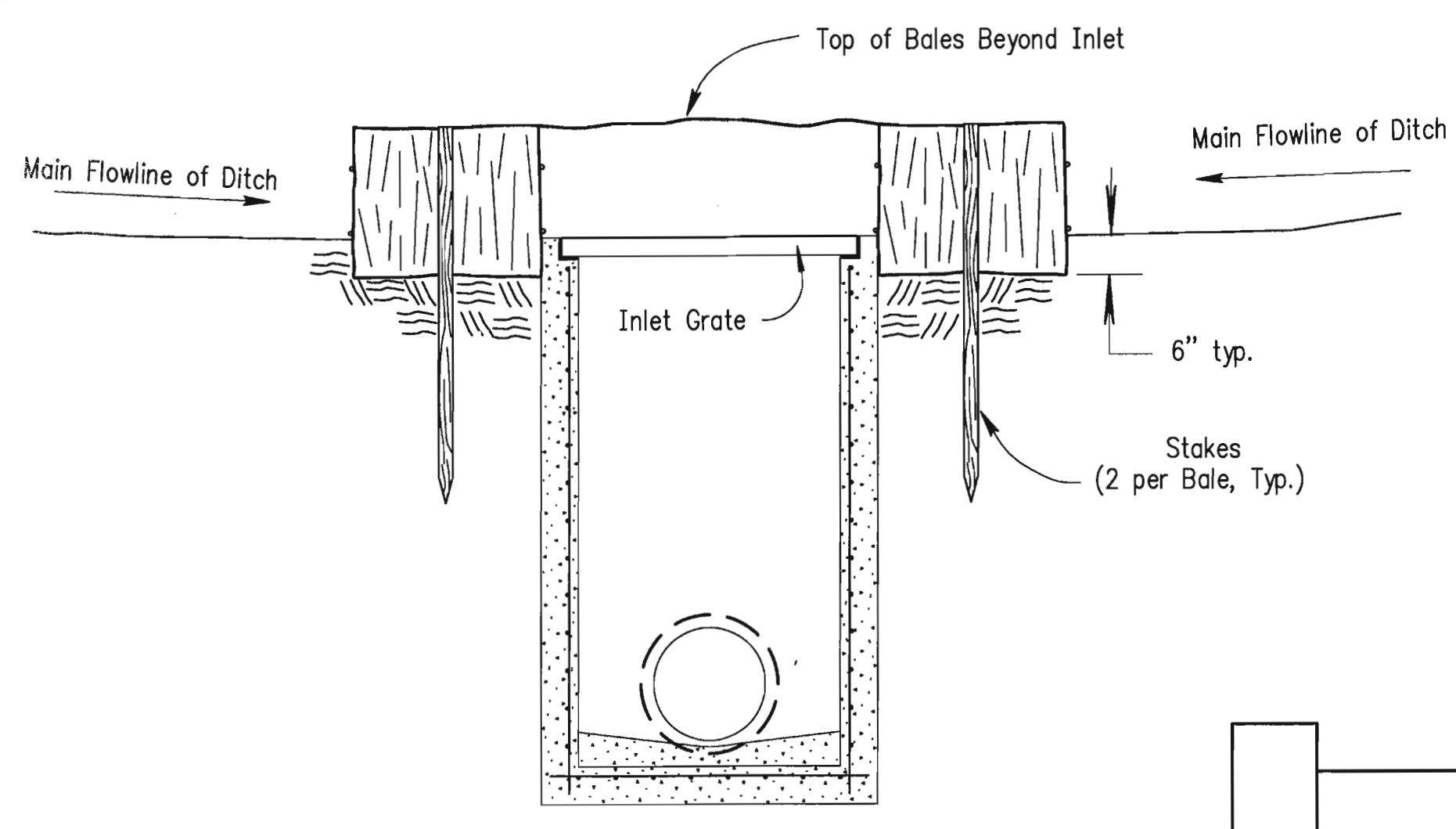
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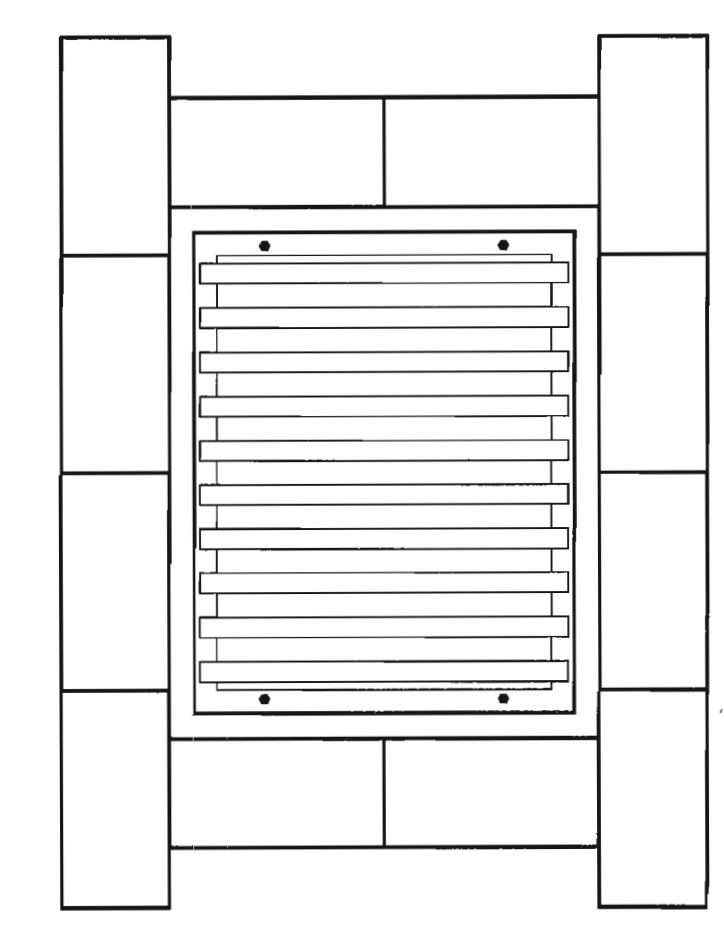
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STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	SCP-1	2013	25	39



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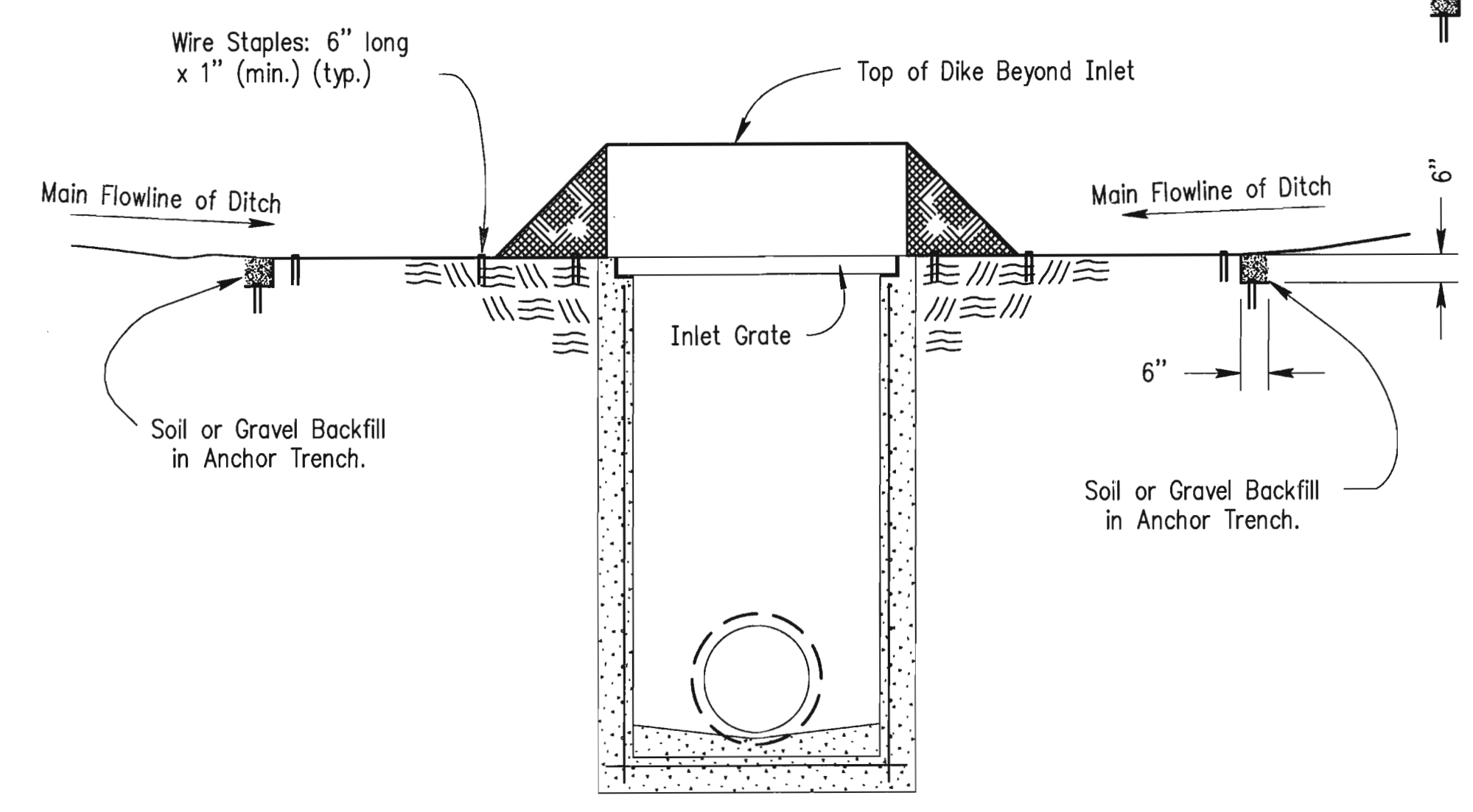


PLAN

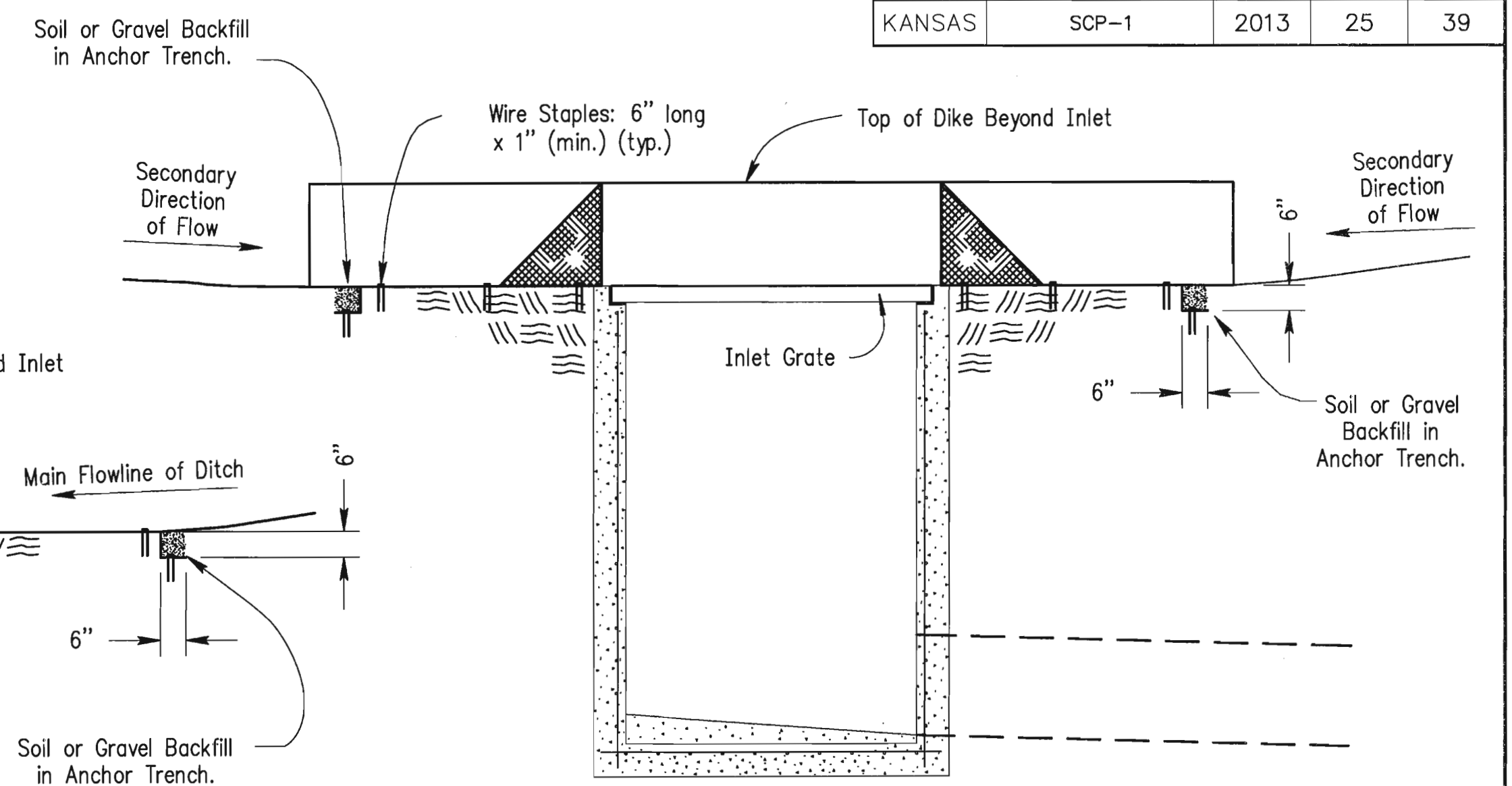
NOTES:

The use of Straw or Hay Bales, Silt Fence or Triangular Silt Dike for Temporary Inlet Sediment Barrier is at the option of the Contractor.

Agricultural products, such as native prairie hay, used for mulching and erosion control practices, excluding wood based mulch, shall meet the North American Weed Free Forage Standards.



SECTION A - A



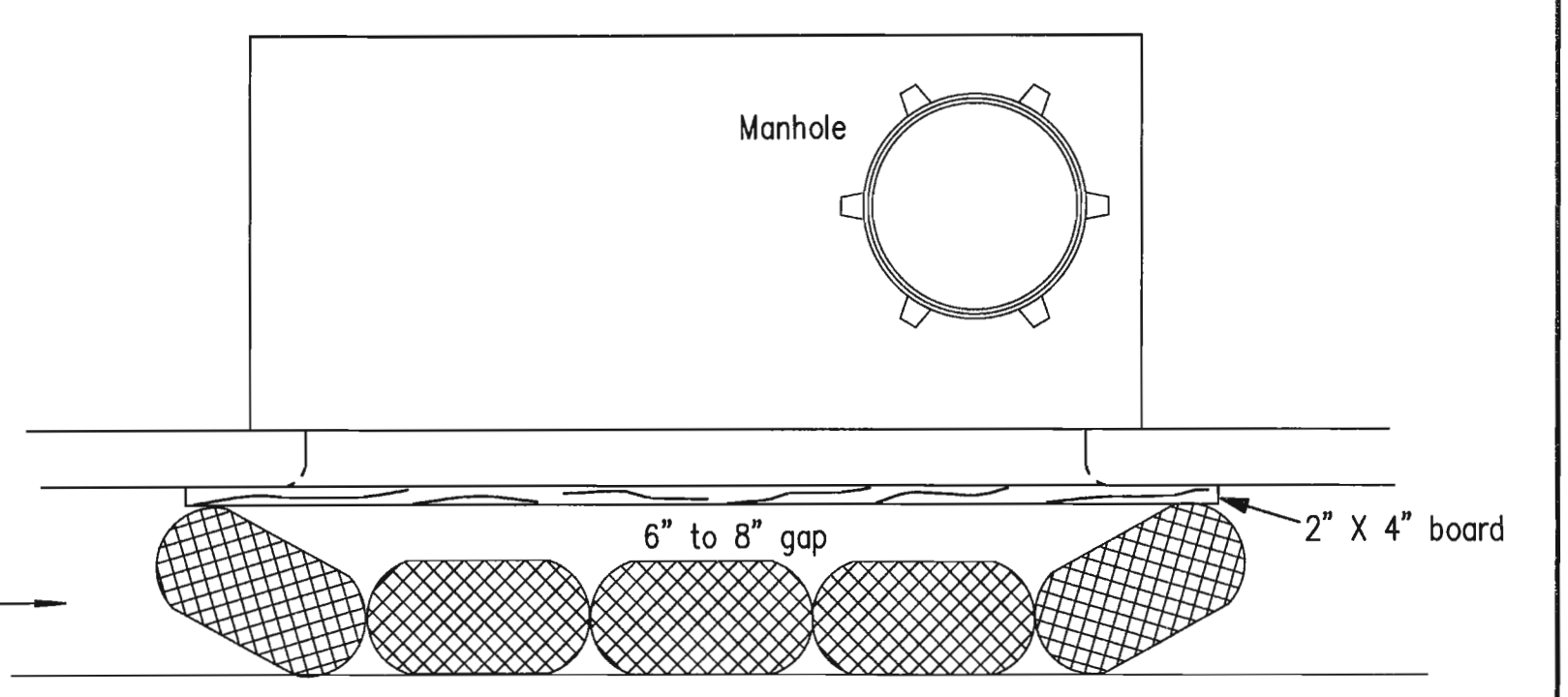
SECTION B - B

STRAW OR HAY BALES:

1. Place bales tightly together, with loose straw or hay wedged between bales to close off openings.
2. Wood stakes shall be 2" x 2" (nom.) x 4' (min.) long.
3. Refer to plans sheets to estimate the number of bales required.
4. Use only twine to bind bales. The use of wire binding is prohibited because it does not readily biodegrade.

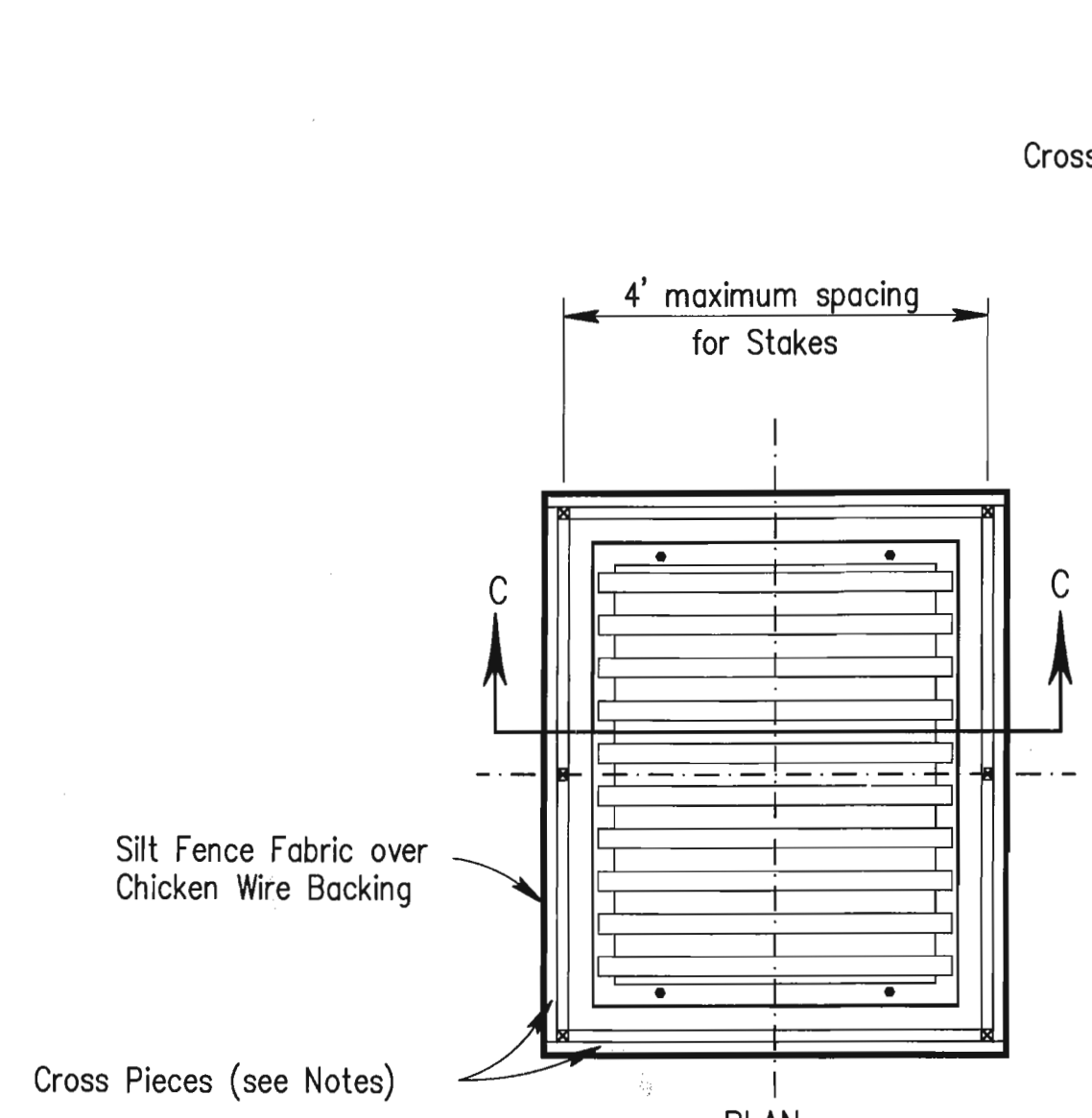
TEMPORARY INLET SEDIMENT BARRIER
(STRAW OR HAY BALE METHOD)

NO SCALE

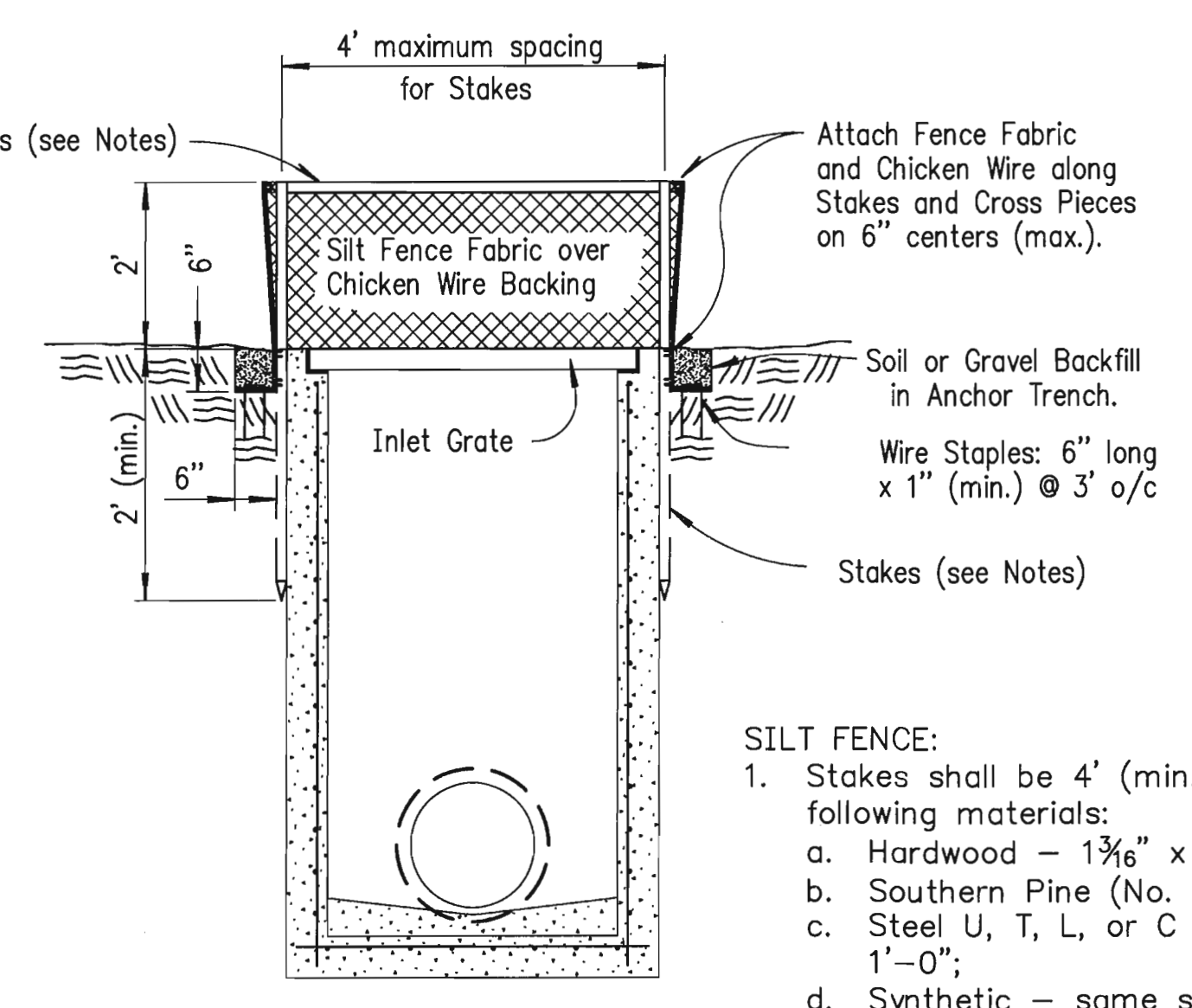


CURB INLET PROTECTION

1. Place gravel bags such that no gaps are evident.
2. Height of bags must not be above top of curb.
3. Alternative products may be used other than gravel bags such as the "Gutter Buddy". Products must be approved by the Engineer.



PLAN



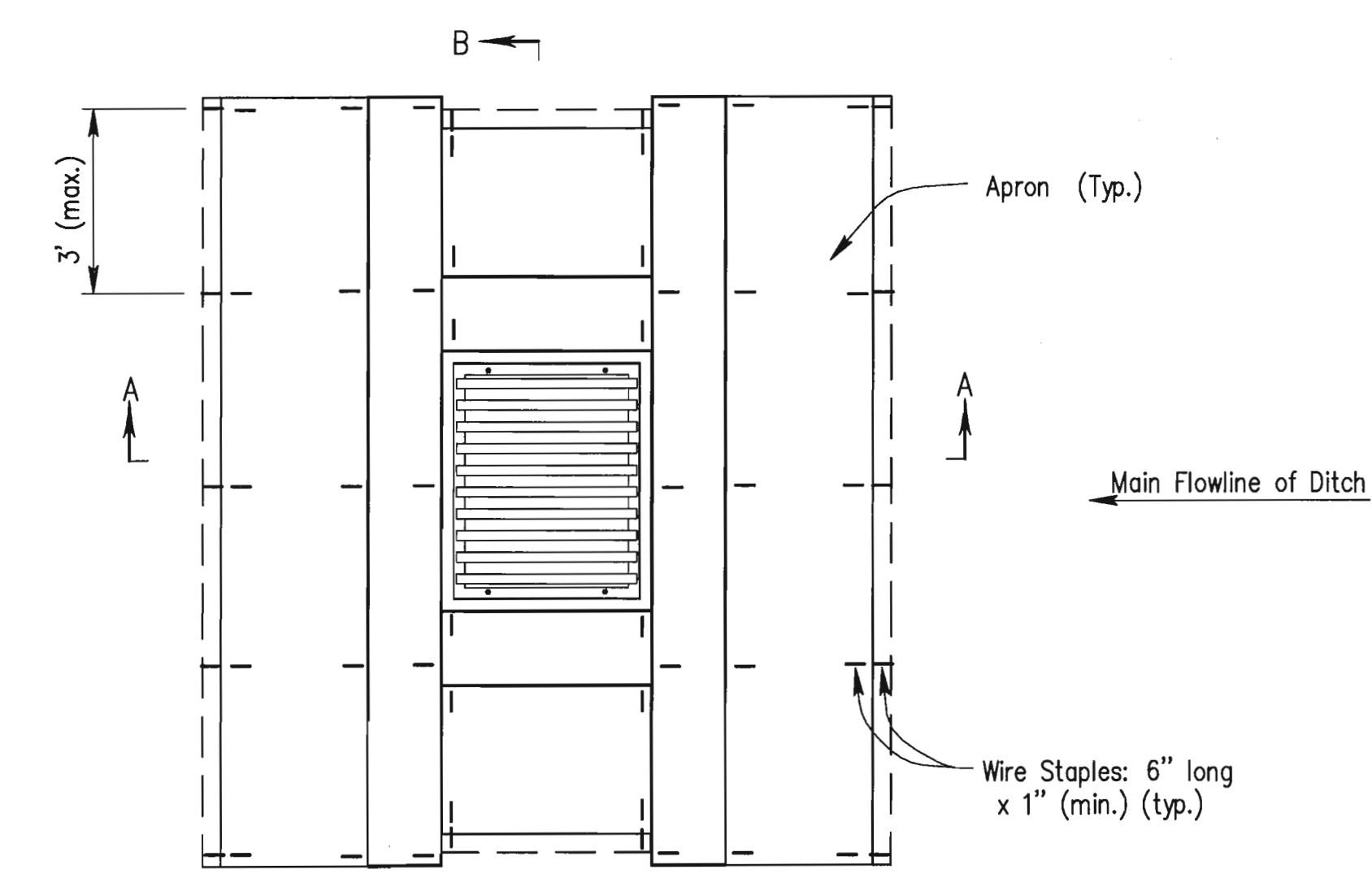
SECTION C - C

SILT FENCE:

1. Stakes shall be 4' (min.) long and of one of the following materials:
 - a. Hardwood - 1 3/8" x 1 3/8";
 - b. Southern Pine (No. 2) - 2 5/8" x 2 5/8";
 - c. Steel U, T, L, or C Section - 1.33 lbs. per 1'-0";
 - d. Synthetic - same strength as wood stakes.
2. Cross Pieces shall be of same material as Stakes.
3. Attach fence fabric to stakes with staples, wire or nails.
4. Refer to plan sheets to estimate the length of Silt Fence required.

TEMPORARY INLET SEDIMENT BARRIER
(SILT FENCE METHOD)

NO SCALE



PLAN

TEMPORARY INLET SEDIMENT BARRIER
(TRIANGULAR SILT DIKE METHOD)

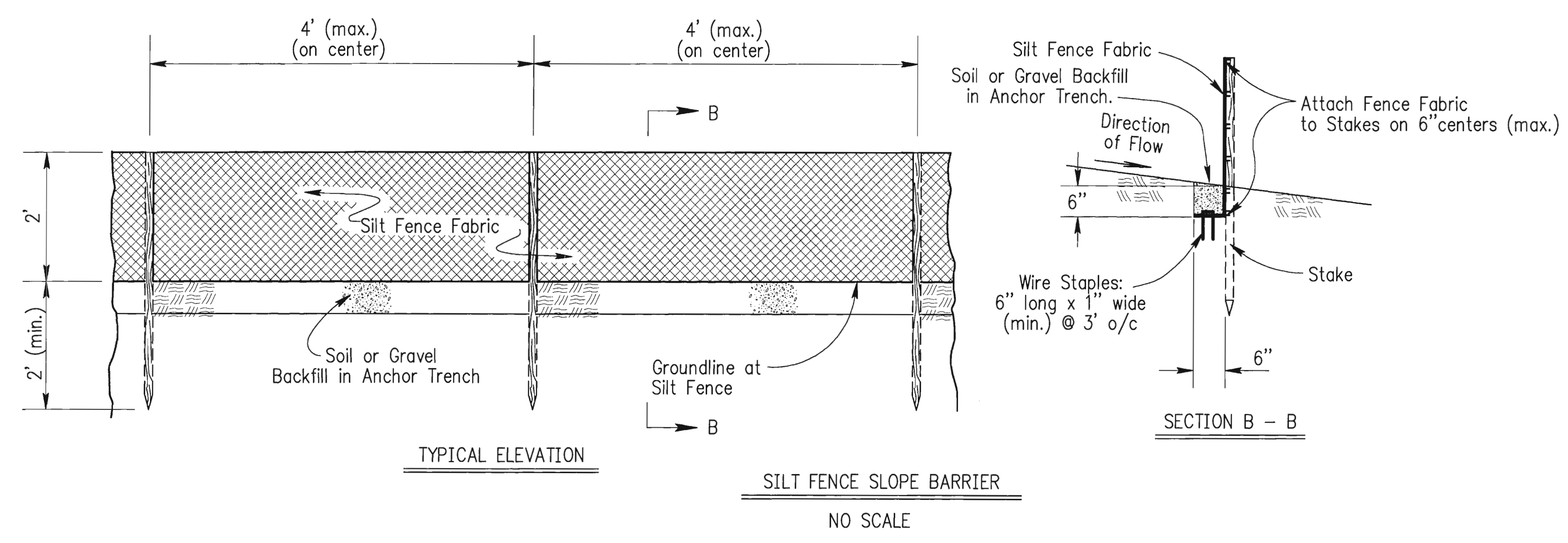
NO SCALE

NO.	DATE	REVISIONS	BY	APP'D
3	8/01/08	Revised Standard	MRM	SHS
2	9/10/07	Revised Standard	MRM	SHS
1	6/16/05	Revised Standard	MRM	SHS

KANSAS DEPARTMENT OF TRANSPORTATION
TEMPORARY EROSION AND POLLUTION CONTROL
TEMP. INLET SEDIMENT BARRIER (SILT FENCE)
TEMP. INLET SEDIMENT BARRIER (BALES)
TEMP. INLET SEDIMENT BARRIER (T.S.D.)
LAB52C

DESIGNED	MRM	APPROVAL	9/23/2008	APP'D	Scott H. Shields
DETAIL CD.	SHS	DETAIL CD.	SHS	QUANTITIES	TRACED
DESIGN CK.	SHS	DETAIL CK.	SHS	QUAN. CK.	TRACE CK.

Device: DWfx_EPlot (XPS Compatible).pc3 Page Setup: 1050C 36x22 Mono Final By: Packer, Lynn T. O: \Projects\Sedgwick County Sports Complex\lab52c.dwg Layout: LAB52C Plotted: 6/9/2013 9:23 PM



INSTALLATION NOTES

- STRAW OR HAY BALES:**
- Place bales tightly together, with loose straw or hay wedged between bales to close off openings.
 - Wood stakes shall be 2" x 2" (nom.) x 4' (min.) long.
 - Refer to plans sheets to estimate the length of bales required.
 - Use only twine to bind bales. The use of wire binding is prohibited because it does not readily biodegrade.

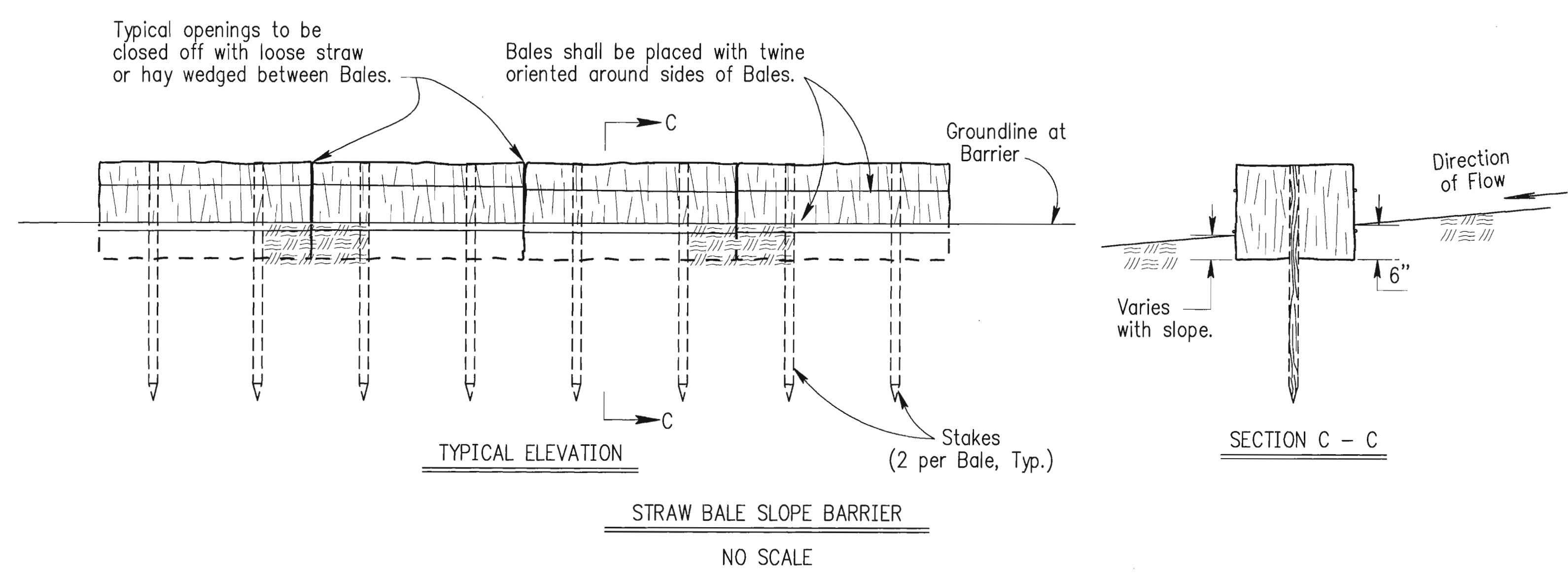
- SILT FENCE:**
- Stakes shall be 4' (min.) long and of one of the following materials:
 - Hardwood - 1 3/8" x 1 3/8";
 - Southern Pine (No. 2) - 2 5/8" x 2 5/8";
 - Steel U, T, L, or C Section - 1.33 lbs. per 1'-0"; or
 - Synthetic - same strength as wood stakes.
 - Attach fence fabric to stakes with staples, wire or nails.
 - Refer to plan sheets to estimate the length of Silt Fence required.

- BIODEGRADABLE LOG BARRIERS**
- Place biodegradable logs tightly together.
 - Wood stakes shall be 2" x 2" (nom.) x 4' (min.) long.
 - Wire staples shall be 6" long x 1" wide (min.) and placed on 3' (max.) centers.
 - Refer to plan sheets to estimate length of biodegradable log barriers required.
 - Logs should be keyed into the ground at a minimum of 25% of its height.
 - Length of stakes should be 2 times the height of the log at a minimum.

Biodegradable Logs, Straw Wattles & Sediment Logs

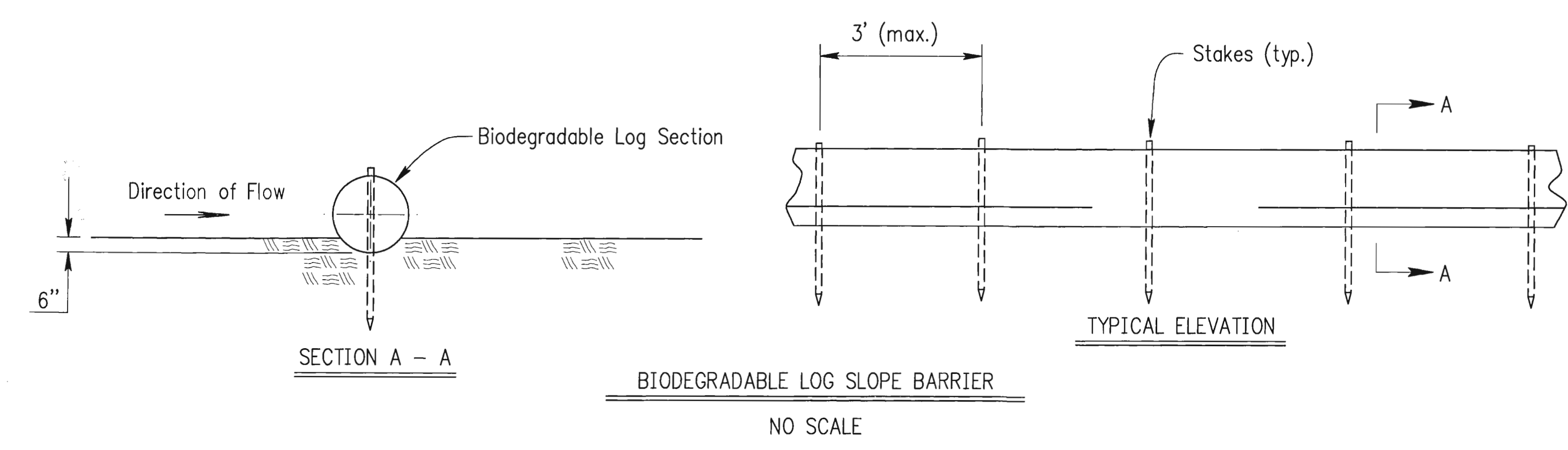
		PRODUCT		
		9" Sediment Log & 9" Straw Wattle (ft)	12" Sediment Log & 12" Straw Wattle (ft)	20" Sediment Log & 20" Straw Wattle (ft)
Slope Gradient	≤4H:1V	40	60	80
	3H:1V	30	45	60
	2H:1V	20	30	40
	1H:1V	10	15	20

9" and 12" material should only be used in areas which have been seeded and mulched. 20" material should be used in all other areas. Deviations should be approved by the Field Engineer.



GENERAL NOTES

- The use of Straw or Hay Bales, Silt Fence or Biodegradable Logs is at the option of the Contractor.
- The slope barriers shall be placed along contour lines, with a short section turned upgrade at each end of the barrier. The maximum length of the slope barrier shall not exceed 250 feet, and the barrier ends need to be staggered.
- At culverts, the Straw or Hay Bales or Silt Fence shall be placed over the culvert, not through the streambed flowline.
- Barriers damaged by Contractor's negligence, including improper maintenance or lack of maintenance, shall be repaired immediately by Contractor at no additional cost to KDOT.
- Agricultural products, such as native prairie hay, used for mulching and erosion control practices, excluding wood based mulch, shall meet the North American Weed Free Forage Standards.



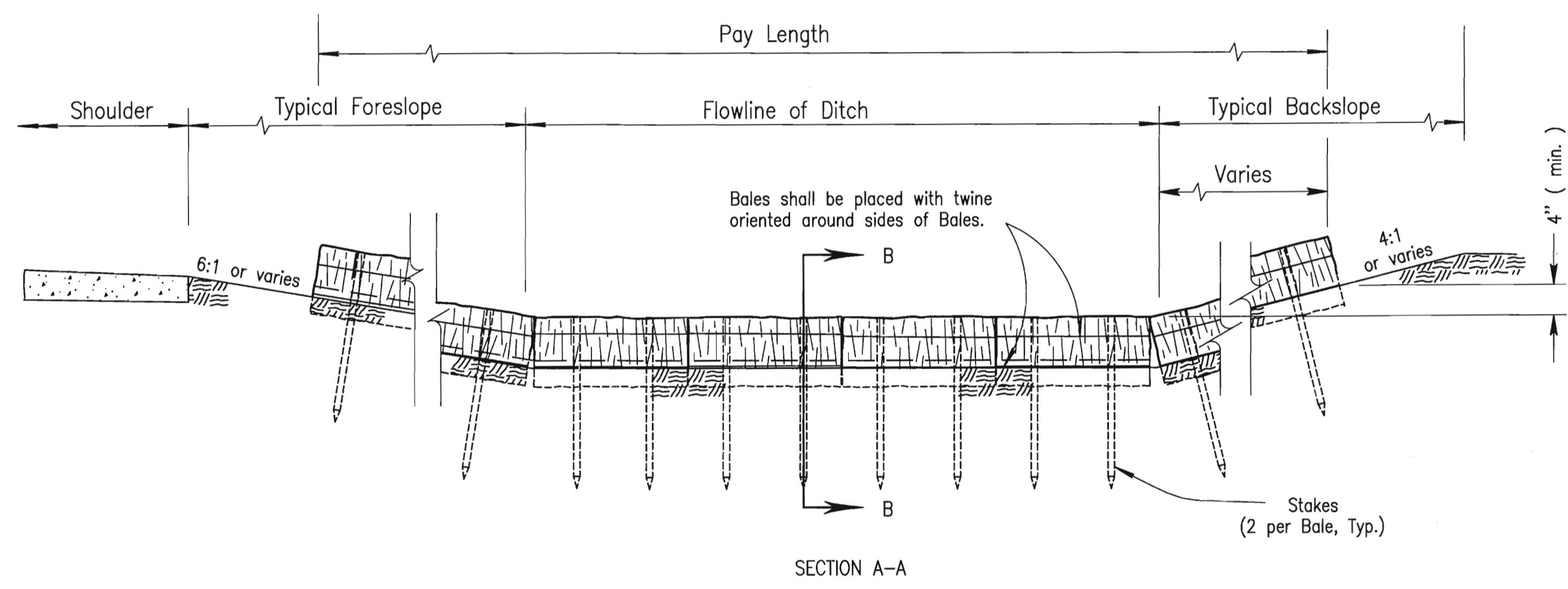
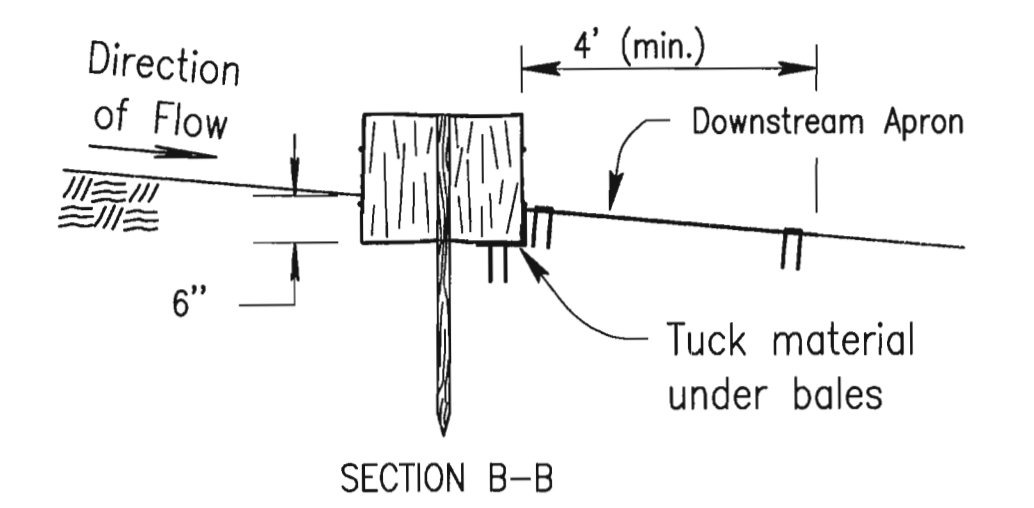
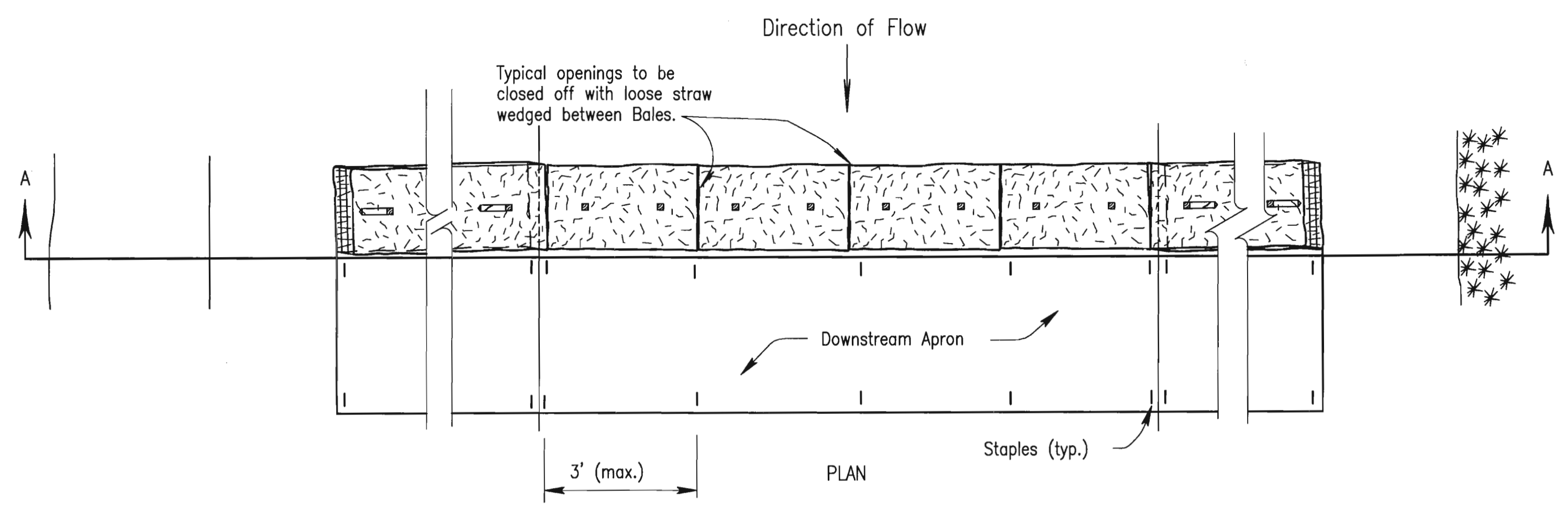
NO.	DATE	REVISIONS	BY	APP'D
3	9/01/10	Edited Biodegradable Log Notes	MRM	SHS
2	8/26/09	Revised Standard	MRM	SHS
1	5/11/09	Revised Standard	MRM	SHS

KANSAS DEPARTMENT OF TRANSPORTATION
TEMPORARY EROSION AND POLLUTION CONTROL
STRAW OR HAY BALE SLOPE BARRIERS
SILT FENCE SLOPE BARRIERS
BIODEGRADABLE LOG SLOPE BARRIERS
LA852D

FHWA APPROVAL	9/21/2010	APP'D	Scott H. Shields
DESIGNED	MRM	DETAILED	MRM
DESIGN CK.	SHS	DETAIL CK.	SHS
		QUANTITIES	CADD
		QUAN. CK.	CADD CK.

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STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	SCP-1	2013	27	39

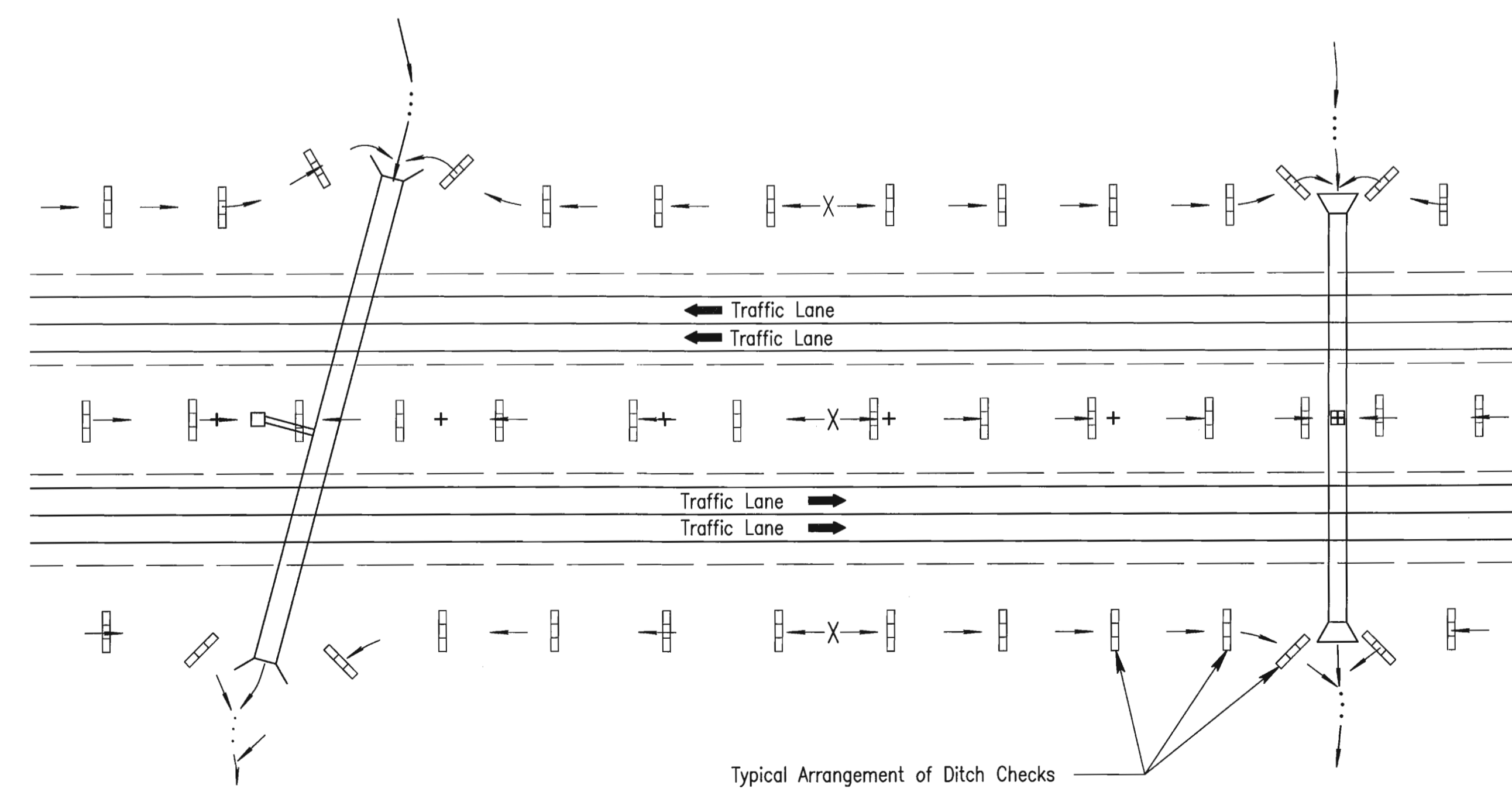


STRAW OR HAY BALE DITCH CHECK
NO SCALE

- STRAW OR HAY BALE NOTES:
1. Place bales tightly together, with loose straw or hay wedged between bales to close off openings.
 2. Wood stakes shall be 2" x 2" (nom.) x 4' (min.) long.
 3. Use as many bales as necessary to completely block the ditch and to prevent water from flowing around the ends of the ditch check.
 4. Use only twine to bind bales. The use of wire binding is prohibited because it does not readily biodegrade.
 5. Use silt fence material as the downstream apron to prevent scour below the ditch check.
 6. Wire staples shall be 6" long by 1" wide, minimum.

DITCH @ SLOPE (%)	SPACING INTERVAL (FEET)
1.0	200
2.0	100
3.0	65
4.0	50
5.0	40
6.0	33

NOTE: Use this spacing for all except Rock Ditch Checks.



TYPICAL DITCH CHECK LAYOUT PLAN
NO SCALE

- GENERAL NOTES:
- 1) The choice of ditch check methods is at the option of the Contractor.
 - 2) Use only rock checks in situations where the ditch slope exceeds 6 percent.
 - 3) Ditch checks damaged by Contractor's negligence, including improper maintenance or lack of maintenance, shall be repaired by Contractor at no extra cost to KDOT.
 - 4) Agricultural products, such as native prairie hay, used for mulching and erosion control practices, excluding wood based mulch, shall meet the North American Weed Free Forage Standards.

NO.	DATE	REVISIONS	BY	APP'D
5				
4				
3	9/10/07	Revised Standard	MRM	SHS
2	6/16/05	Revised Standard	MRM	SHS
1	5/10/99	Revised Standard	WCL	RDR

KANSAS DEPARTMENT OF TRANSPORTATION
TEMPORARY EROSION AND POLLUTION CONTROL
STRAW OR HAY BALE DITCH CHECKS
LA852E

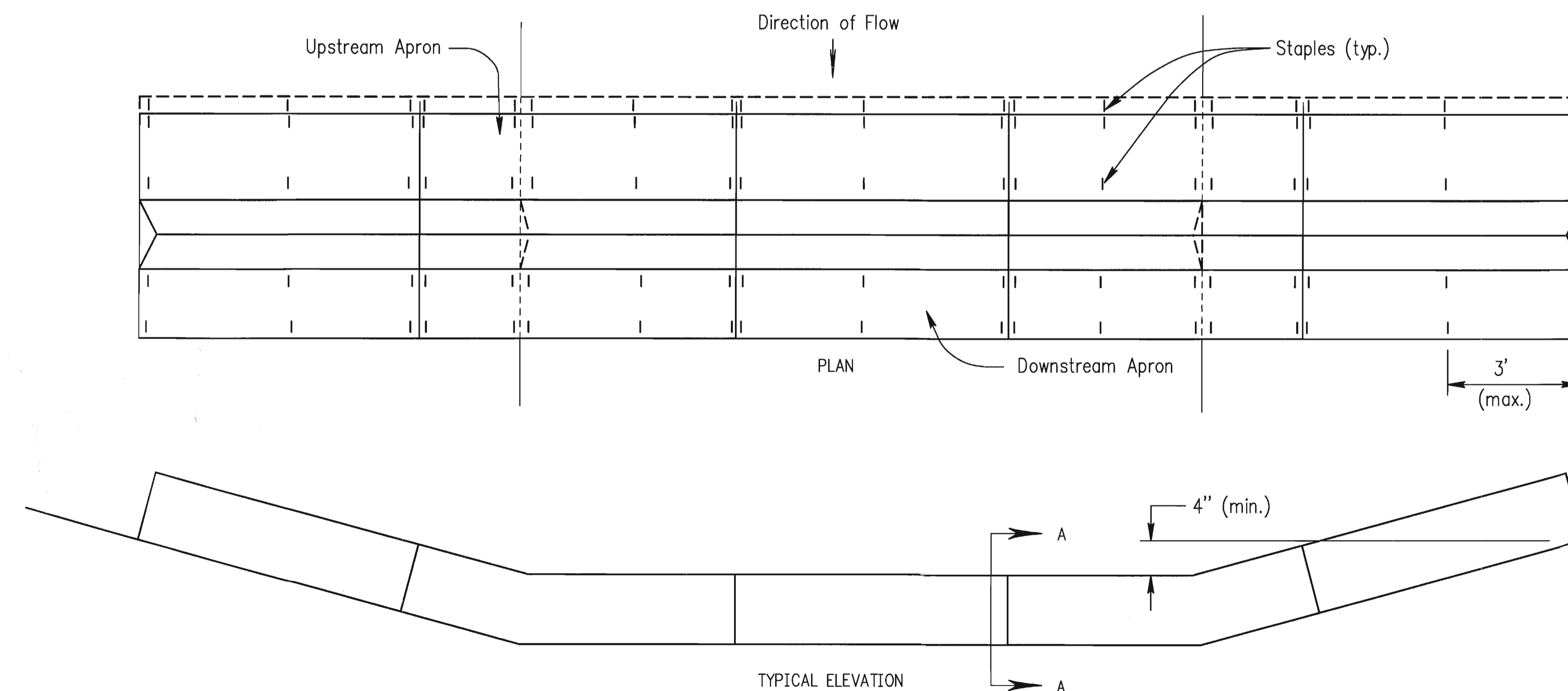
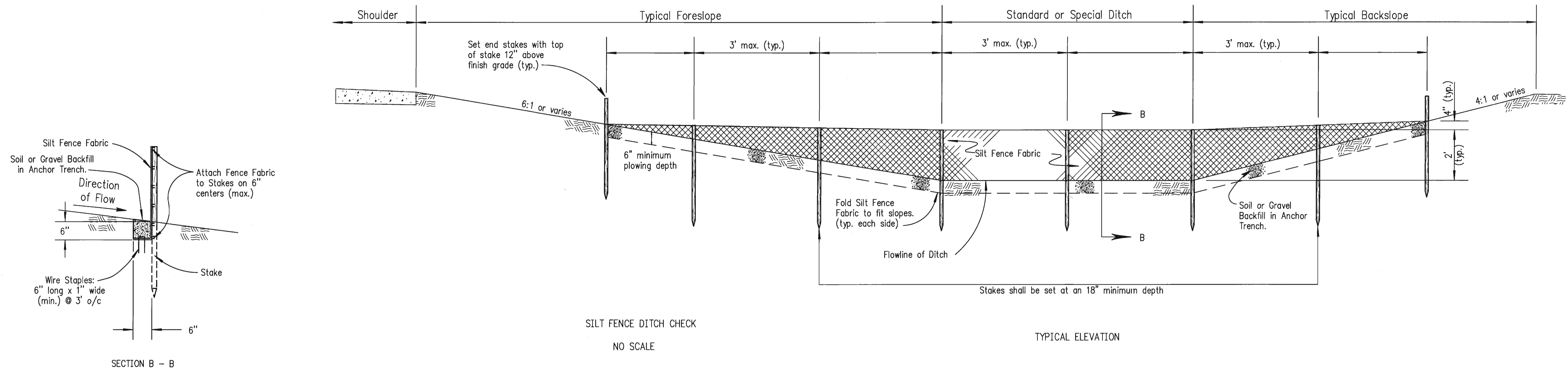
F.H.W.A. APPROVAL	6/22/2005	APP'D	Scott H. Shields
DESIGNED	MRM	DETAILED	MRM
DESIGN CK.	SHS	DETAIL CK.	SHS
		QUANTITIES	TRACED
		QUAN. CK.	TRACE CK.

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STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	SCP-1	2013	28	39

SILT FENCE:

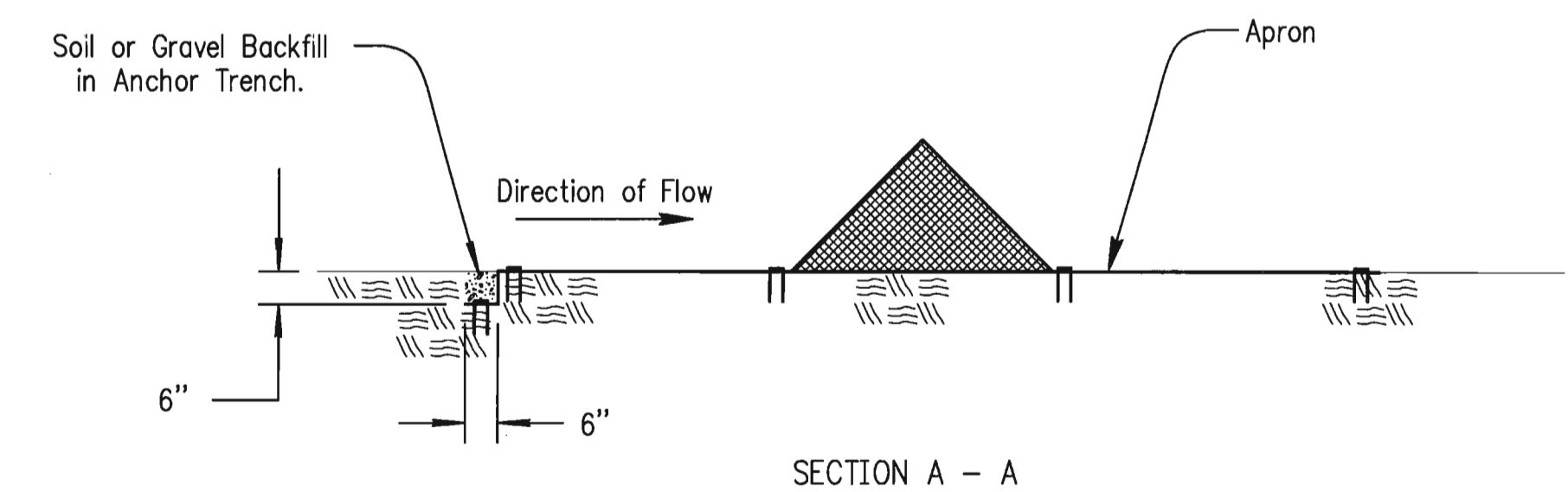
- Stakes shall be 4' (min.) long and of one of the following materials:
 - Hardwood - 1 3/8" x 1 3/8";
 - Southern Pine (No. 2) - 2 5/8" x 2 5/8";
 - Steel U, T, L, or C Section - 1.33 lbs. per 1'-0"; or
 - Synthetic - same strength as wood stakes.
- Attach fence fabric to stakes with staples, wire or nails.
- Refer to plan sheets to estimate the length of Silt Fence required.
- Use support fencing when tributary area is greater than 2.4 acres or when ditch gradient is greater than 2 percent.
- Silt fence plowing is acceptable at a 6" minimum depth.



TRIANGULAR SILT DIKE NOTES

- Place Triangular Silt Dike sections tightly together, with apron material overlapping end-to-end by 6".
- Wire Staples shall be 6" long by 1" wide, minimum.
- Use as many Triangular Silt Dike sections as necessary to insure water does not flow around end of ditch check.

TRIANGULAR SILT DIKE DITCH CHECK
NO SCALE



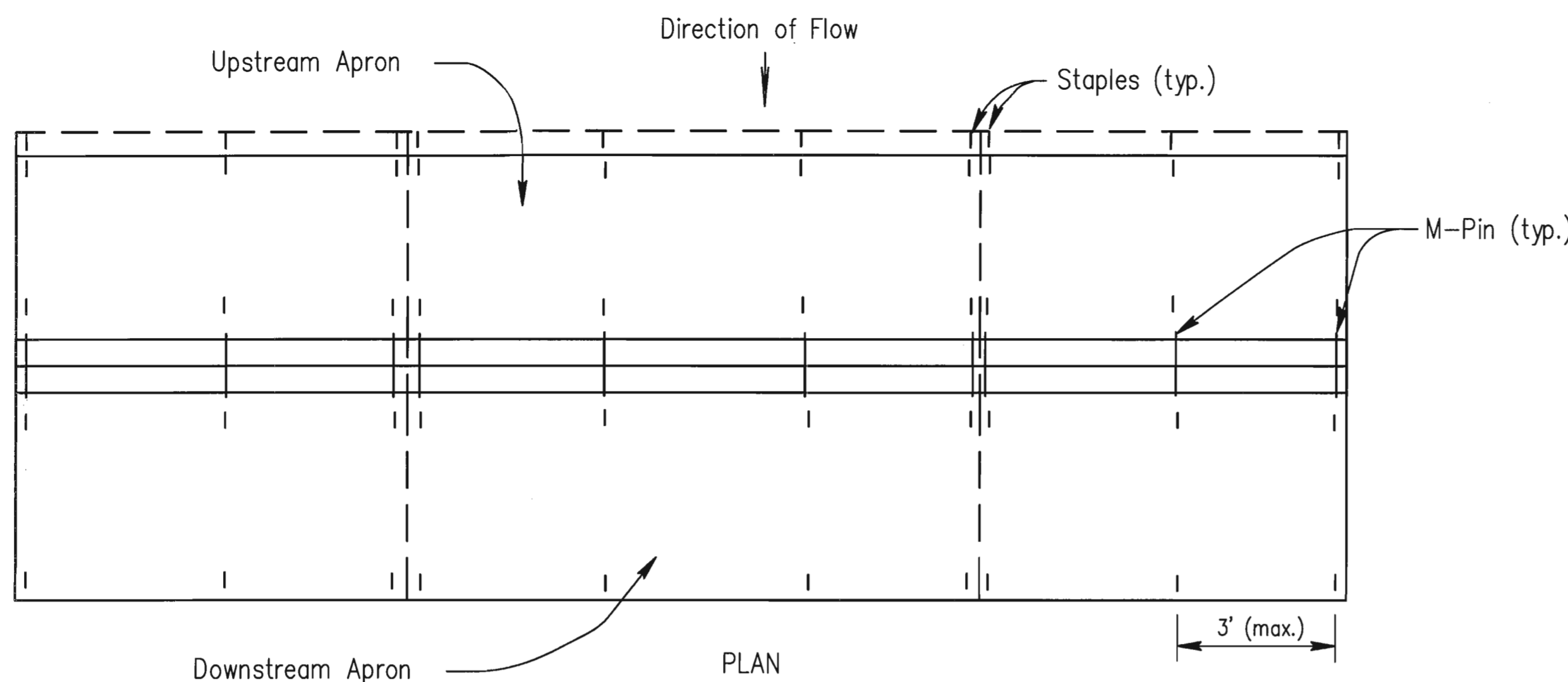
NO.	DATE	REVISIONS	BY	APPD
3				
2	12/31/09	Revised Standard	MRM	SHS
1	07/02/07	Revised Standard	MRM	SHS

KANSAS DEPARTMENT OF TRANSPORTATION
TEMPORARY EROSION AND POLLUTION CONTROL
SILT FENCE DITCH CHECKS
TRIANGULAR SILT DIKE DITCH CHECKS
LA852F

F.H.W.A. APPROVAL	7/23/07	APPD	Scott H. Shields
DESIGNED	MRM	QUANTITIES	TRACED
DESIGN CK.	SHS	DETAIL CK.	SHS

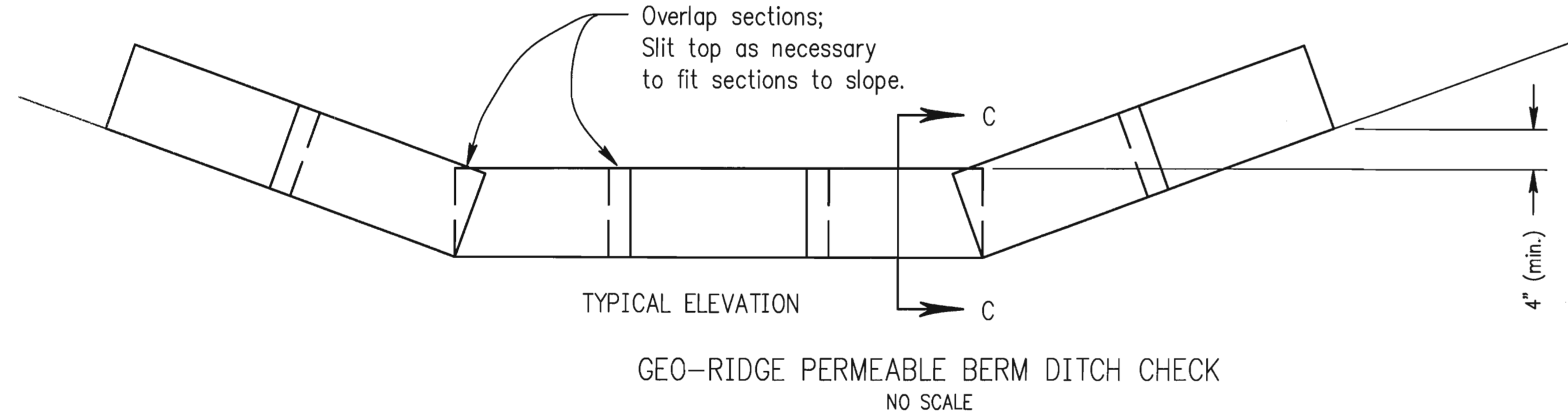
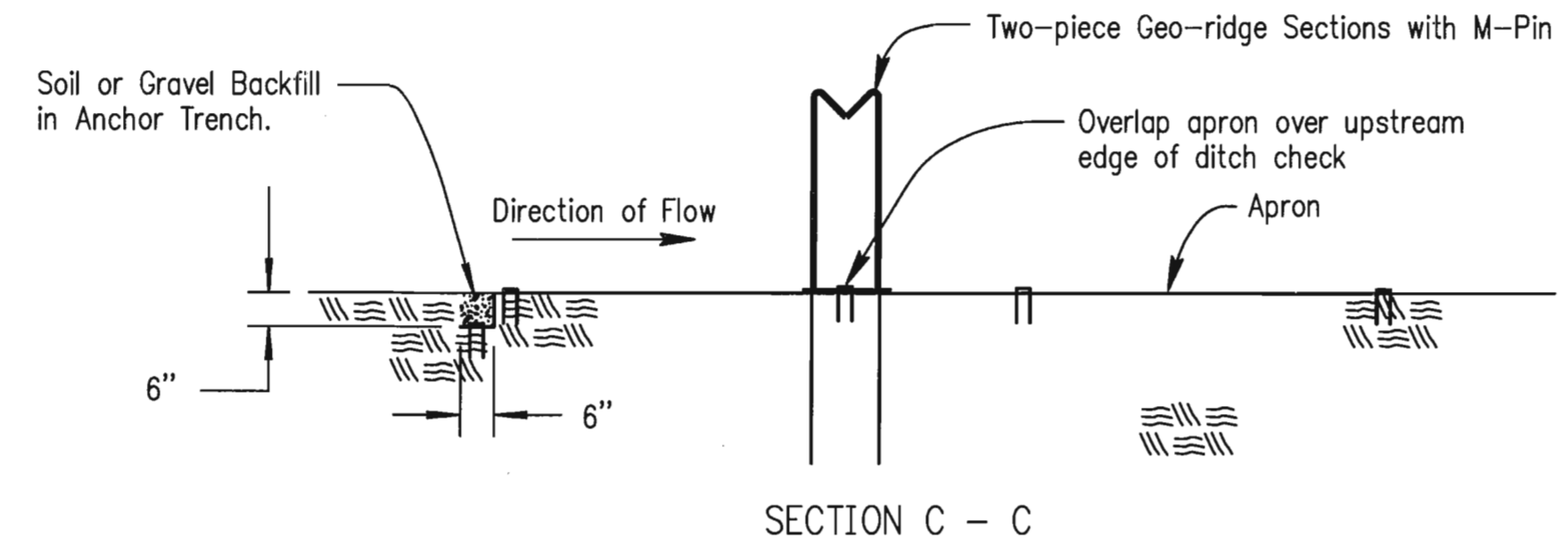
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STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	SCP-1	2013	29	39



GEO-RIDGE PERMEABLE BERM NOTES

1. Overlap Geo-ridge Berm sections and apron material by 6".
2. Use M-Pins supplied by manufacturer to secure Geo-ridge Berm sections.
3. Use as many Geo-ridge Berm sections as necessary to insure water does not flow around end of ditch check.
4. Use silt fence material as the apron to prevent scour above and below the ditch check.
5. Wire Staples shall be 6" long by 1" wide, minimum.



GEO-RIDGE PERMEABLE BERM DITCH CHECK
NO SCALE

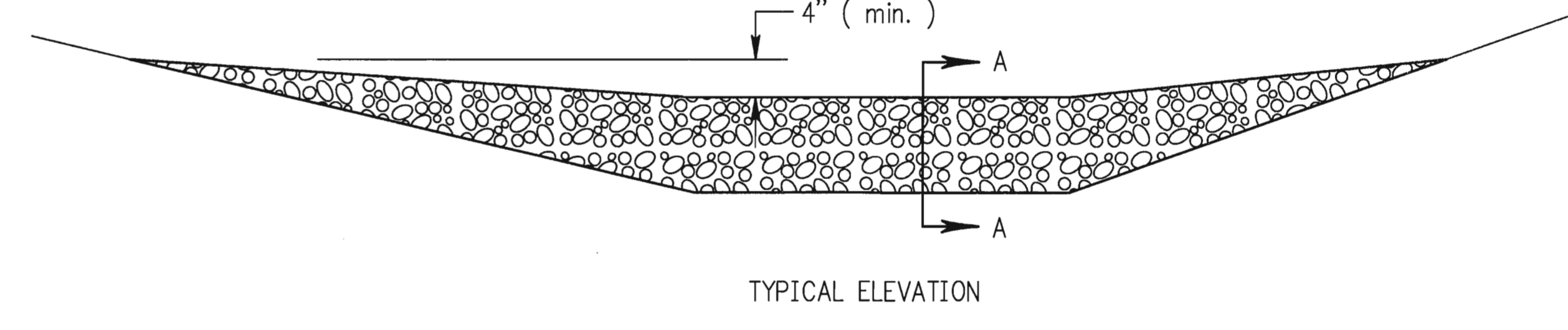
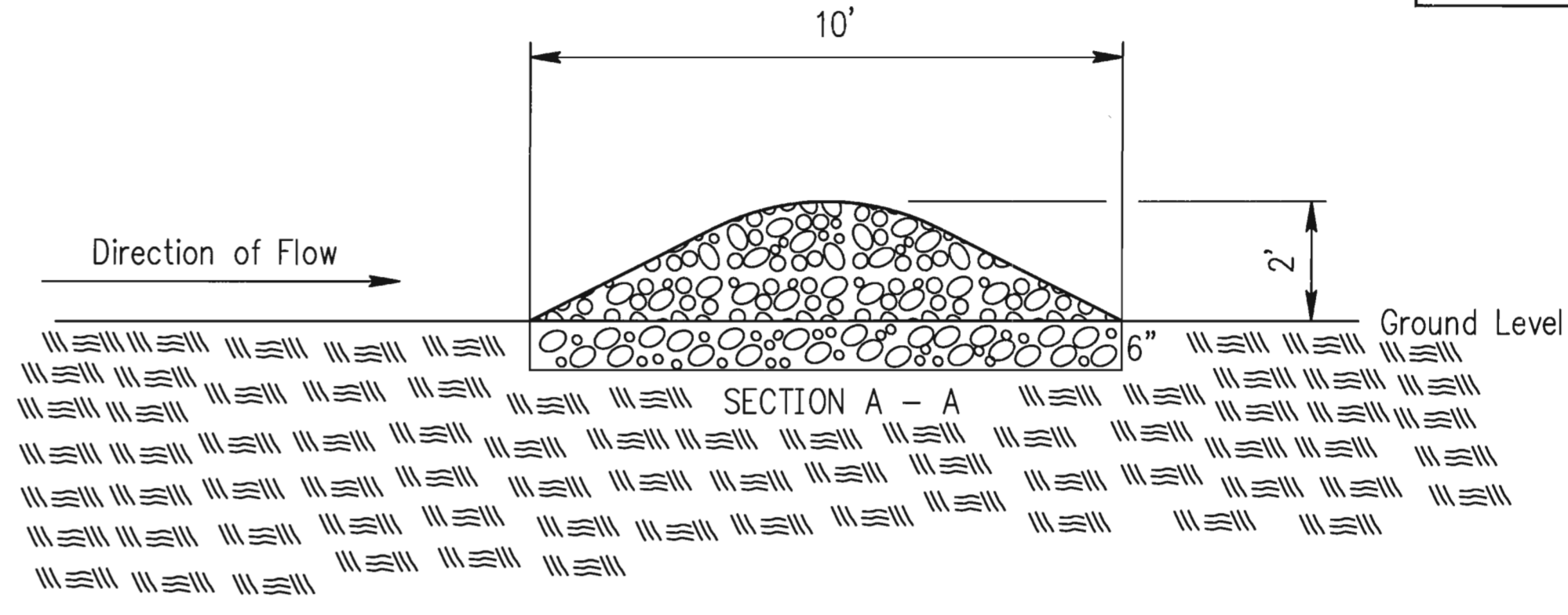
ROCK DITCH CHECK NOTES

1. Rock shall be clean aggregate, D50 = 6".
2. Place rock in such manner that water will flow over, not around ditch check.
3. Do not use rock ditch checks in clear zone.
4. Excavation: The ditch area shall be reshaped to fill any eroded areas. Prior to placement of the rock, the ditch shall be excavated to the dimensions of the Rock Ditch Check and to a minimum depth of 6" (150mm). After placement of the rock, backfill and compact any over excavated soil to ditch grade. This work shall be subsidiary to the bid item Temporary Ditch Check (Rock) (Set Price).
5. Aggregate excavated on site may be used as an alternate to the 6" rock, if approved by the Engineer.

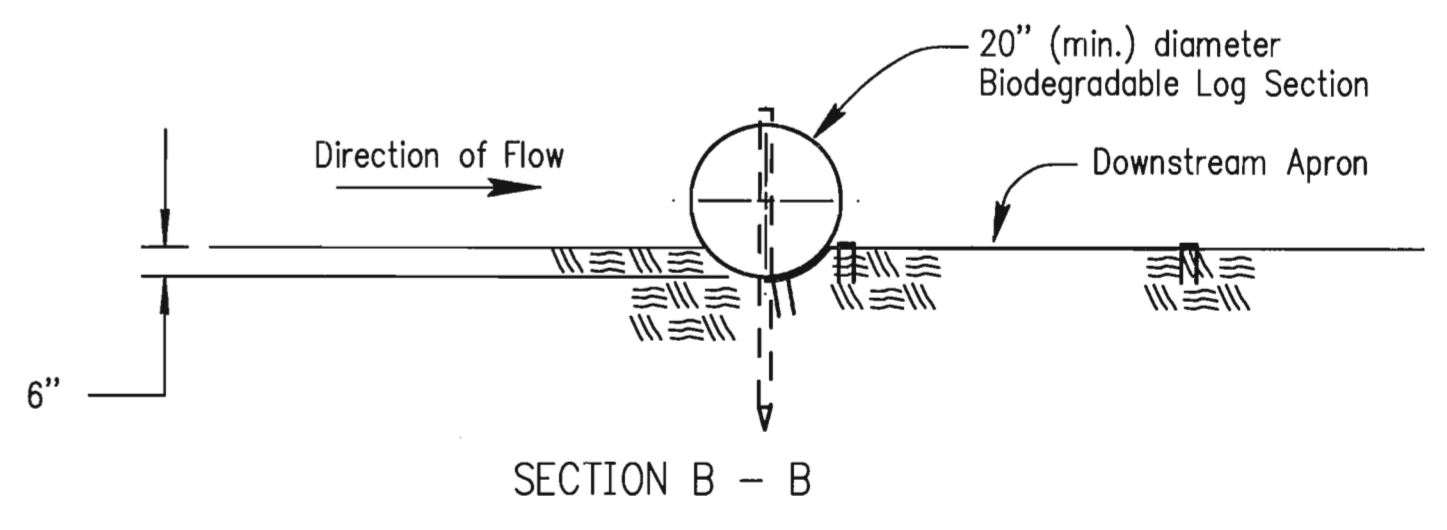
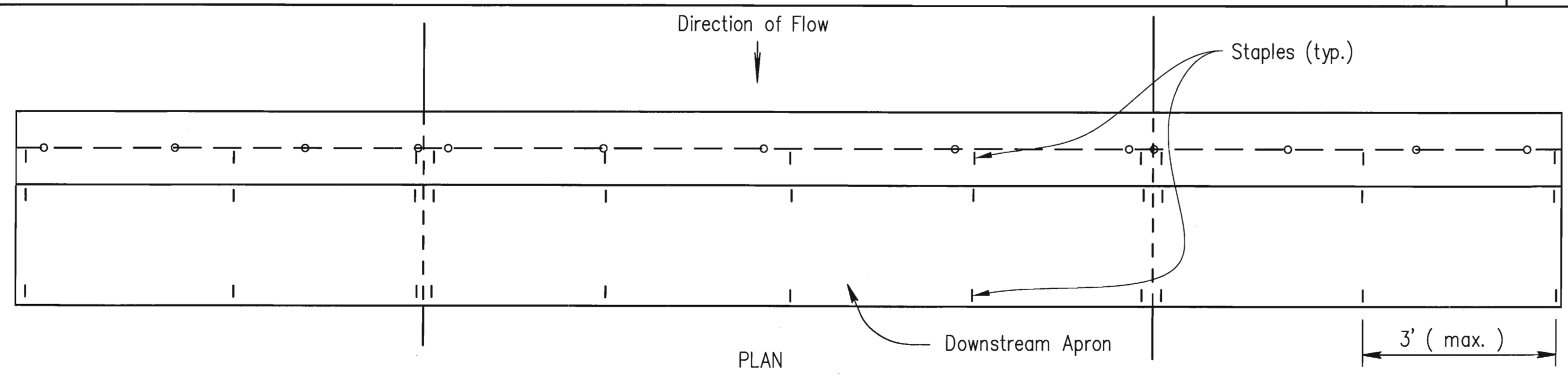
TEMPORARY ROCK DITCH CHECK SPACING

DITCH & SLOPE (%)	SPACING INTERVAL (FEET)
5.0	60
6.0	50
7.0	43
8.0	36
9.0	33
10.0	29

NOTE: Use this spacing only for Rock Ditch Checks.

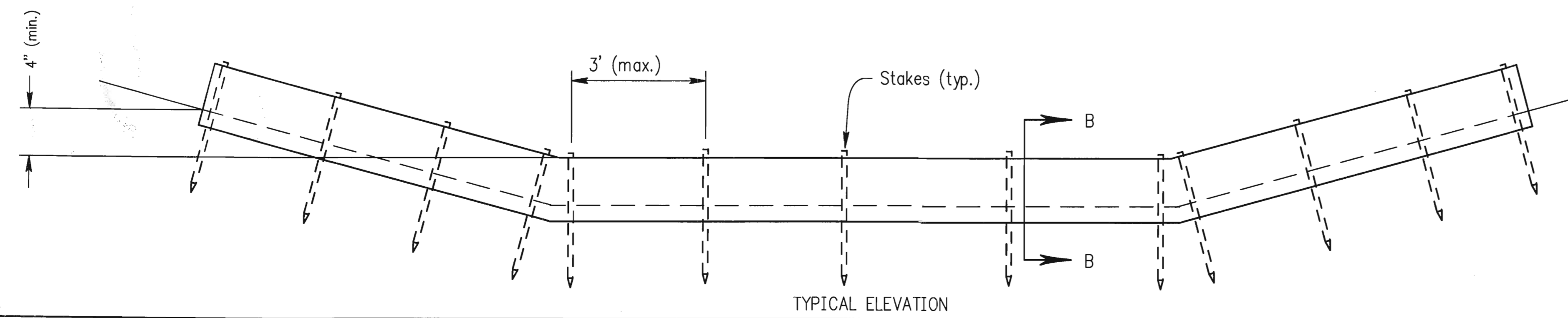


ROCK DITCH CHECK
NO SCALE



BIODEGRADABLE LOG DIKE NOTES

1. Place biodegradable logs tightly together, with apron material overlapping end-to-end by 6".
2. Wire staples shall be 6" long by 1" wide, minimum.
3. Use as many biodegradable log sections as necessary to insure water does not flow around end of ditch check.
4. Wood stakes shall be 2" x 2" (nom.) x 4' (min.) long.
5. Use silt fence material as the downstream apron to prevent scour below the ditch check.



BIODEGRADABLE LOG DITCH CHECK
NO SCALE

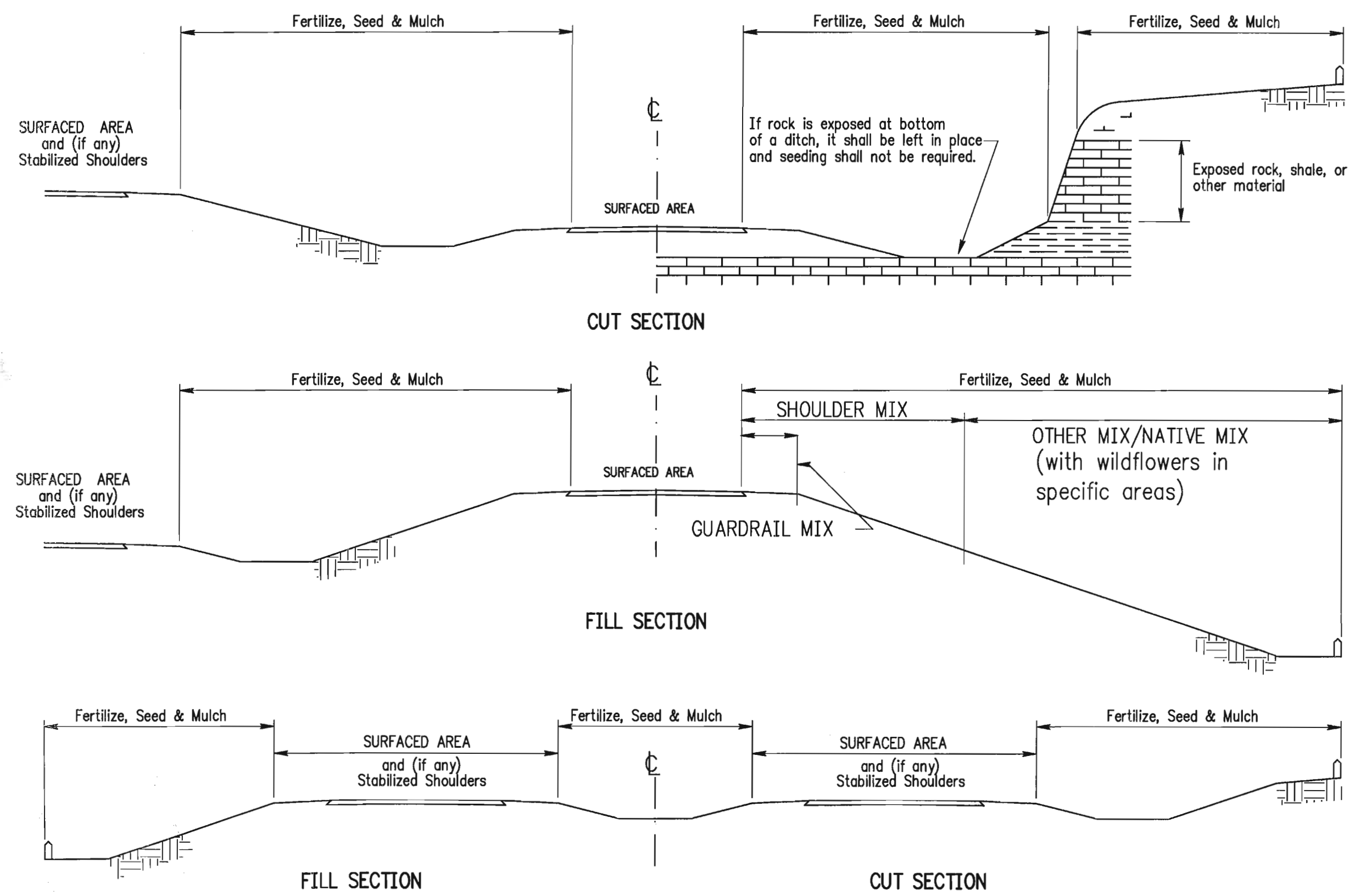
NO.	DATE	REVISIONS	BY	APP'D
3				
2	12/31/09	Revised Standard	MRM	SHS
1	5/03/06	Revised Standard	MRM	SHS

KANSAS DEPARTMENT OF TRANSPORTATION
TEMPORARY EROSION AND POLLUTION CONTROL
ROCK DITCH CHECKS
BIODEGRADABLE LOG DITCH CHECKS
GEO-RIDGE PERMEABLE BERM DITCH CHECKS
LA852G

F.H.W.A. APPROVAL	5/03/2006	APP'D	Scott H. Shields
DESIGNED	MRM	DETAILED	MRM
DESIGN CK.	SHS	DETAIL CK.	SHS
		QUANTITIES	TRACED
		QUAN. CK.	MRM
			TRACE CK.
			SHS

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STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	SCP-1	2013	30	39



SEEDING PERIODS

COOL SEASON February 15 to April 20 and August 15 to Sept. 30	WARM SEASON November 15 to June 1
SPECIES	SPECIES
Bluegrasses	Bluestems
Brome-grasses	Buffalograss
Canada Wildrye	Eastern Gamagrass
Fescues	Gramas
Ryegrasses	Indiangrass
Wheatgrasses	Lovegrasses
Reed Canarygrass	Switchgrass
	Wildflower Mixes

When "Cool Season" species are mixed with "Warm Season" species, in areas of 1 acre or more, the mixture shall be seeded during the "Warm Season". In areas of less than 1 acre, the mixture of "Cool Season" and "Warm Season" species may be seeded during the "Warm or Cool Seasons".

SODDING PERIODS

March 1 to April 15 and September 1 to November 15
--

GENERAL: The entire disturbed area, excepting the paved or surfaced areas, steep rocky slopes and areas of undisturbed native sod or other desirable vegetation shall be fertilized (limed when required), seeded, and mulched. Soil preparation shall conform to the Standard Specifications except as noted below.

All borrow areas shown on the plans are to be fertilized, seeded, and mulched. However, operation in borrow areas where crops are growing may be omitted when requested by the owner.

It shall not be required to till the area to bare ground prior to permanent seeding. If temporary cover has provided stable slopes with no erosion, seed the permanent grasses into the existing cover. If there has been erosion that requires repair prior to seeding, then it may be necessary to regrade the area, resulting in bare ground.

FERTILIZER: A ratio and application rate that equals or exceeds the required minimum rate per acre of N, P₂O₅, K₂O listed in Summary of Seeding Quantities will be acceptable.

MULCHING: Mulch shall be spread uniformly over all disturbed areas and punched in the soil, unless otherwise noted on the plans. The rate of application per acre, thickness in place, for the mulching material is as follows:

1 3/4 - 2 1/4 Tons per Acre = 1 1/2" loose depth spread uniformly over acre.

Agricultural products, such as native prairie hay, used for mulching and erosion control practices, excluding wood based mulch, shall meet the North American Weed Free Forage Standards.

Other vegetative mulches (Acceptable only with the Engineer's concurrence).

The above rate is a guide. It will be at the discretion of the Engineer to determine what rate is sufficient for adequate protection of newly seeded areas.

The amount of mulch in the bid quantities is estimated. The total mulch required shall be determined in the field. ~~The bid item for mulching shall be paid for by one of the following ways: A) Plan quantity as shown on Summary of Quantities, Seeding Sheet or Water Pollution Control Sheet, B) Slope measurement as measured in field, or C) Drill measurement less 5% as measured at the time of seeding.~~

SUMMARY OF SEEDING QUANTITIES*

P.L.S. RATE/ACRE		ACRES		BID ITEM	QUANTITY	UNIT
SHLDR	OTHER	SHLDR	OTHER			
50	50			Fertilizer (15-30-15)	55.0	Lbs.
3.3	2.3		1.1	Seed (Canada Wildrye)	2.5	Lbs.
1.5	1.5		1.1	Seed (Blue Gramma Grass) (Lovington)	14.8	Lbs.
35	35		1.1	Seed (Buffalo Grass) (Treated)	1.7	Lbs.
4.8	4.8		1.1	Seed (Sterile Wheatgrass)	5.3	Lbs.
				Seeding	Lump Sum	L.S.
				Mulching (Permanent) (Set Price)	1.1	Acre

*Quantities for fertilizer, mulch, and seeding are for information only. Seeding shall be by the lump sum.

SHLDR = Shoulder Turf Mix: Includes a 30 foot wide strip along the stabilized shoulder on each side of each traveled way, plus all median areas less than 60 feet wide.

OTHER = All other turf areas except Shoulder, Guardrail, and Native areas usually include the Native Wildflower Mix.

GRDRL = Guardrail Mix: This mix does not need mowing. Plant it below the guardrail between the edge of pavement and the edge of the 10:1 slope, and on steep slopes or non-mowable slopes as shown on the drawings.

NATIVE = The Native Mix is a 40% wildflower, 60% native grass mix. See this sheet for the locations of this high wildflower content seed mix.

NOTE: Projects shall be bid as "Seeding" by the lump sum. All disturbed areas shall be seeded, fertilized and mulched at the listed rate per acre. The acres are estimated.

NATIVE WILDFLOWER MIX 1

P.L.S. RATE	NAME	QTY (lb)
0.1	Black Eyed Susan	
1.8	Illinois Bundleflower	
0.15	Maximilian Sunflower	
0.4	Purple Prairie Clover	
2.9	Showy Partridge Pea	
0.1	Upright Prairie Coneflower	
0.3	Butterfly Milkweed	
0.1	Stiff Goldenrod	
0.05	Pinnate Prairie Coneflower	
0.1	Lance-leaf Coreopsis	
0.05	New England Aster	
0.2	Pale Purple Coneflower	
0.05	Plains Coreopsis	
0.05	Hoary Verbena	
0.3	Roundhead Lespedeza	
0.4	Thickspike Gayfeather	
0.05	Wild Bergamont	
0.2	Smooth Oxeye	
0.05	Lemon Mint	
7.35	TOTAL (lb)	

NATIVE WILDFLOWER MIX 2

P.L.S. RATE	NAME	QTY (lb)
0.1	Black Eyed Susan	
1.8	Illinois Bundleflower	
0.15	Maximilian Sunflower	
0.4	Purple Prairie Clover	
2.9	Showy Partridge Pea	
0.1	Upright Prairie Coneflower	
0.3	Butterfly Milkweed	
0.4	Dotted Blazing Star	
0.4	Annual Gaillardia	
0.05	Stiff Goldenrod	
0.05	New England Aster	
0.3	Missouri Evening Primrose	
0.05	Plains Coreopsis	
0.15	White Prairie Clover	
0.3	Roundhead Lespedeza	
0.05	Lemon Mint	
0.15	Pitcher Sage	
7.65	TOTAL (lb)	

NATIVE WILDFLOWER MIX 3

P.L.S. RATE	NAME	QTY (lb)
0.15	Black Eyed Susan	
1.9	Illinois Bundleflower	
0.15	Maximilian Sunflower	
0.05	Western Yarrow	
0.5	Black Sampson Echinacea	
0.05	Upright Prairie Coneflower	
0.3	Butterfly Milkweed	
0.4	Dotted Blazing Star	
0.75	Annual Gaillardia	
0.05	Stiff Goldenrod	
0.05	New England Aster	
0.4	Pitcher Sage	
0.1	Plains Coreopsis	
0.15	White Prairie Clover	
0.2	Purple Prairie Clover	
0.4	Leadplant	
0.02	White Heath Aster	
1	Blue Wild Indigo	
0.05	Lemon Mint	
6.67	TOTAL (lb)	

NATIVE WILDFLOWER MIX 4

P.L.S. RATE	NAME	QTY (lb)
1.9	Illinois Bundleflower	
0.4	Maximilian Sunflower	
0.05	Western Yarrow	
1	Black Sampson Echinacea	
0.1	Upright Prairie Coneflower	
0.1	Scarlet Globemallow	
0.4	Dotted Blazing Star	
1.1	Annual Gaillardia (Firewheel)	
0.1	Hoary Vervain	
0.3	White Prairie Clover	
0.4	Purple Prairie Clover	
0.4	Perennial Gaillardia (Blanket Flower)	
0.02	White Heath Aster	
0.05	Lemon Mint	
6.32	TOTAL (lb)	

Package and deliver the wildflower seed separately from the grass seed mix. Package and deliver the Tall Drop Seed separately from the grass seed and the wildflower mix. Place the grass seed (except Tall Drop Seed) in the large seed box and drill (cover) seed 1/8" - 1/4". Place the wildflower seed in a separate seed box and drill (cover) seed 1/16" maximum. Place the Tall Drop Seed in a separate (third) seed box and place the seed (using the seed drill) on the soil surface. OPTION: Broadcast Tall Drop Seed on the soil surface.

NO.	DATE	REVISIONS	BY	APP'D
4	10/13/08	Revised Standard	MRM	SHS
3	12/14/05	Revised Standard	MRM	SHS
2	6/16/05	Revised Standard	SHS	SHS
1	3/01/04	Revised Standard	FCM	SHS

KANSAS DEPARTMENT OF TRANSPORTATION

**PERMANENT SEEDING
SUMMARY OF SEEDING QUANTITIES**

LA850

DESIGNED	MRM	DATE	1/04/2006	APP'D	Scott H. Shields
DESIGN CK.	SHS	DETAIL CK.	SHS	QUANTITIES CK.	TRACED
					TRACE CK.

Device: DWFx EPlot (XPS Compatible).pc3 Page Setup: 1050C 36x22 Mono Final By: Packer, Lynn T. O:\Projects\Seagwick County Sports Complex\la850.dwg Layout: La850 Plotted: 6/9/2013 9:24 PM

COUNTY	STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
SEDGWICK	KANSAS	SCP-1	2013	31	39

GENERAL NOTES

General
All break away sign post systems supplied shall be NCHRP-350 compliant.

Sign posts shall be installed plumb to the ground. Leaning posts will not be accepted. The completed sign/post systems shall meet the requirements as detailed on this sheet and as required by the manufacturer of the system.

Materials not meeting the requirements herein shall be rejected.

Sheeting

Retroreflective sheeting shall conform to the requirements for Type I Medium-intensity Sheeting in section 718.01 of the "Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects" (FP-96). The minimum retroreflectivity specified in FP-96 shall be met.

Blanks and Back Plates

The aluminum sign blanks shall conform to ASTM B-209, alloy 6061-T6 or 5052-H38. Blanks shall have a thickness of 0.080". All dimensions shall be as shown in these details.

Hardware

Bolts, nuts, spacers and rivets shall meet post manufacturer's requirements for proper operation of the break away systems supplied. All hardware shall have a corrosion resistant finish per post manufacture's requirements.

Fence Mounting

Signs to be mounted on fences shall be attached using a mounting bracket specifically intended for such use, such as the SignGuardian Sign Mounting System for Chain Link Fences, or an approved equal. Reserved parking signs shall be located so they cannot be obscured by a vehicle parked in the space.

Sign Legend

The sign legend(s) shall conform to the dimensions on this sheet and the "Standard Highway Signs" manual, 2004 Edition. Any deviation shall be approved by Sedgwick County Public Works prior to fabrication.

Posts-Telescoping

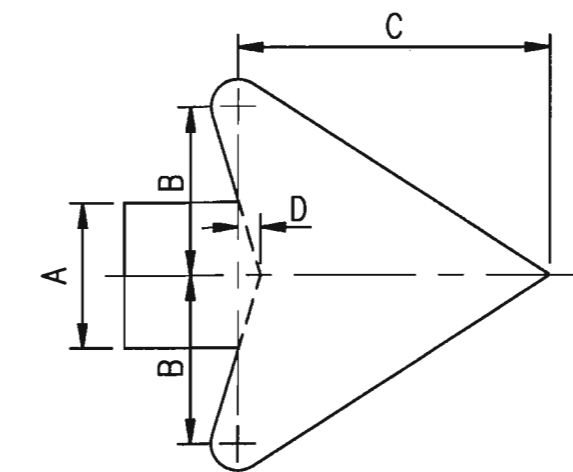
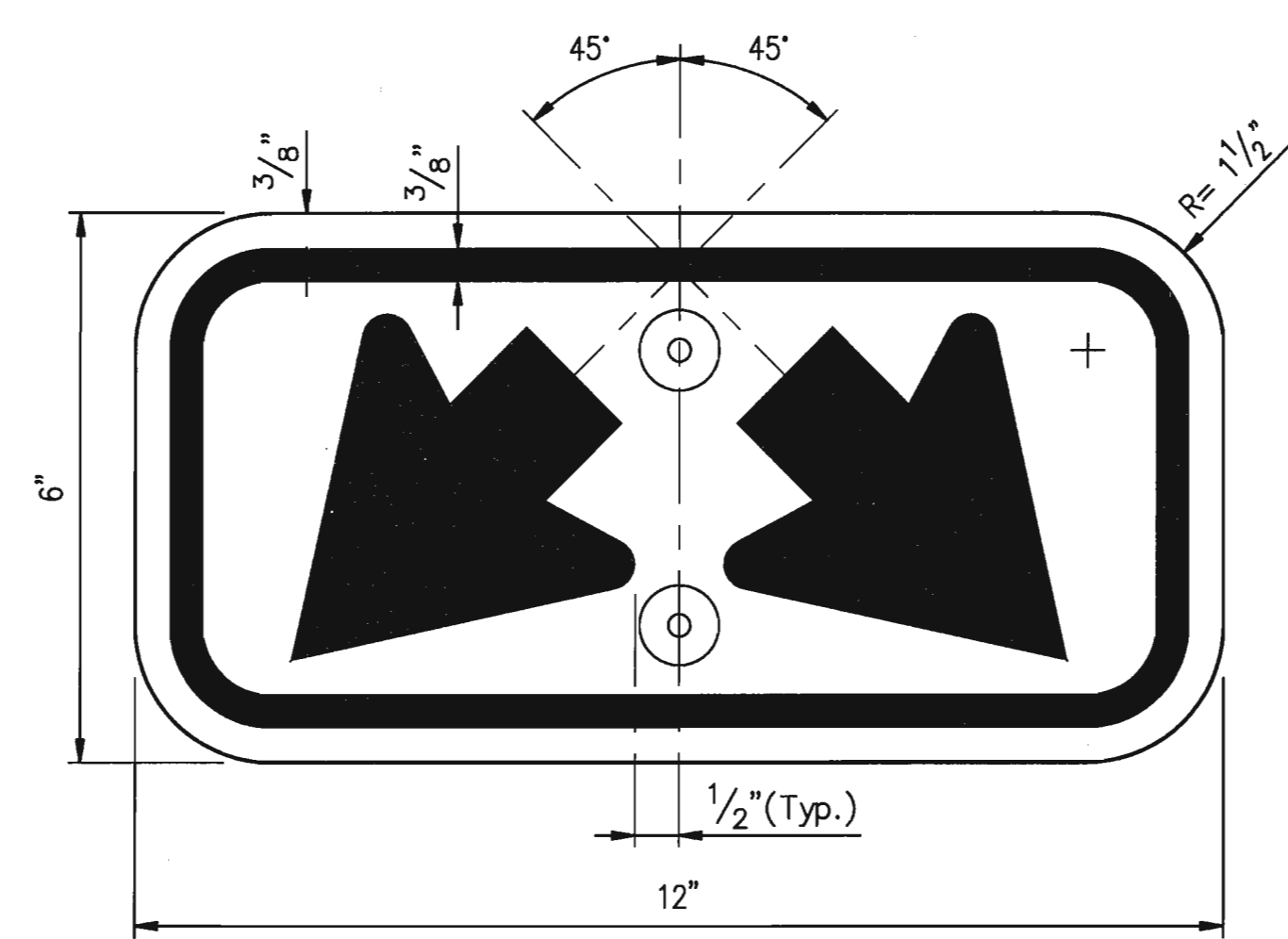
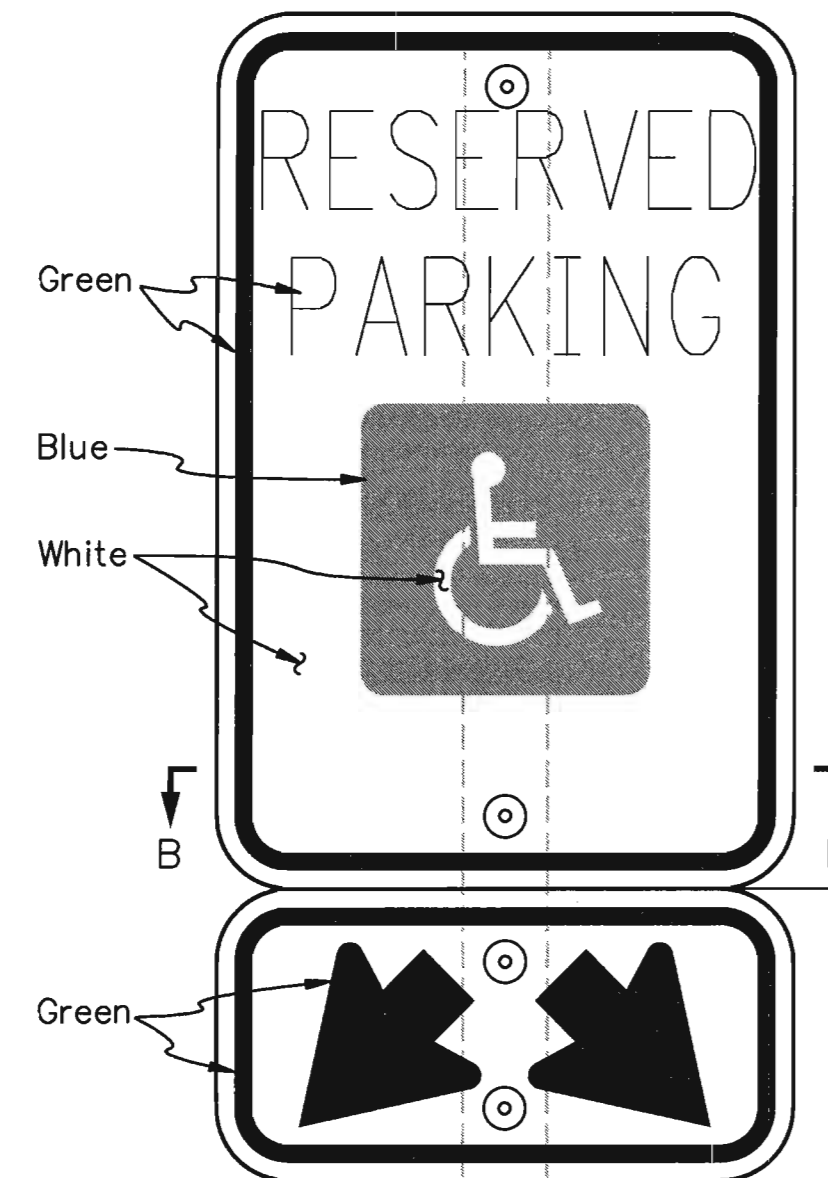
The steel posts, bases and sleeves shall conform to the standard specifications for cold rolled carbon sheet steel, commercial quality, ASTM A-446, Grade A. Dimensions of the components shall be as detailed on this sheet. All posts shall be galvanized.

The yield strength of the post, sleeve and anchor shall be 52,000 psi. The posts, sleeve and anchor shall be manufactured from hot dipped galvanized steel with 1.25 ounce coating conforming to ASTM A-525, also referred to as G-90. Both interior and exterior faces of the components shall be galvanized.

The post shall be flush or recessed down below the top of the sign.

All paved or concreted surfaces shall be core-drilled prior to base/sleeve installation. The hole surrounding the base/sleeve shall be filled with material approved by Sedgwick County Public Works prior to use.

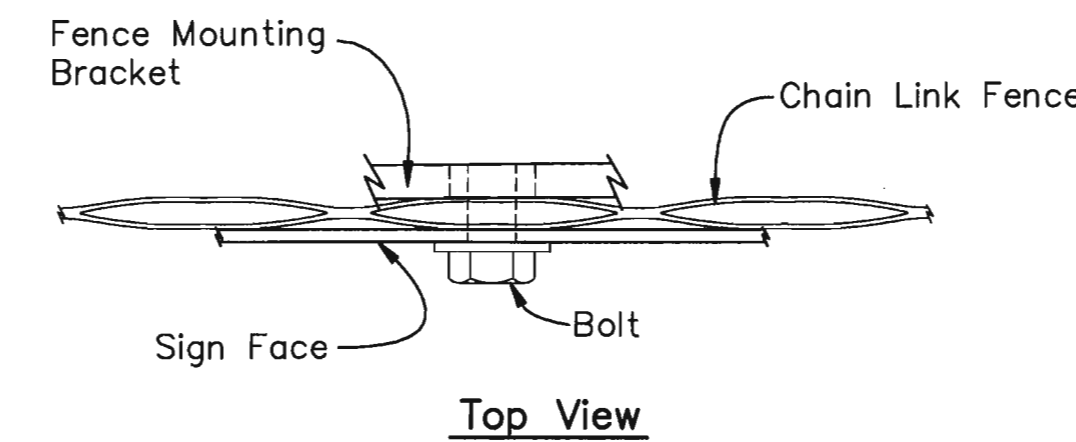
Reserved Parking (Handicapped)
R7-8 (12"x18") w/o arrow



A	B	C	D	E
1.5	1.735	3.235	.235	.281

ARROW DETAILS

Double Arrow Sign Details
(center arrows vertically)



FENCE MOUNTING BRACKET DETAIL



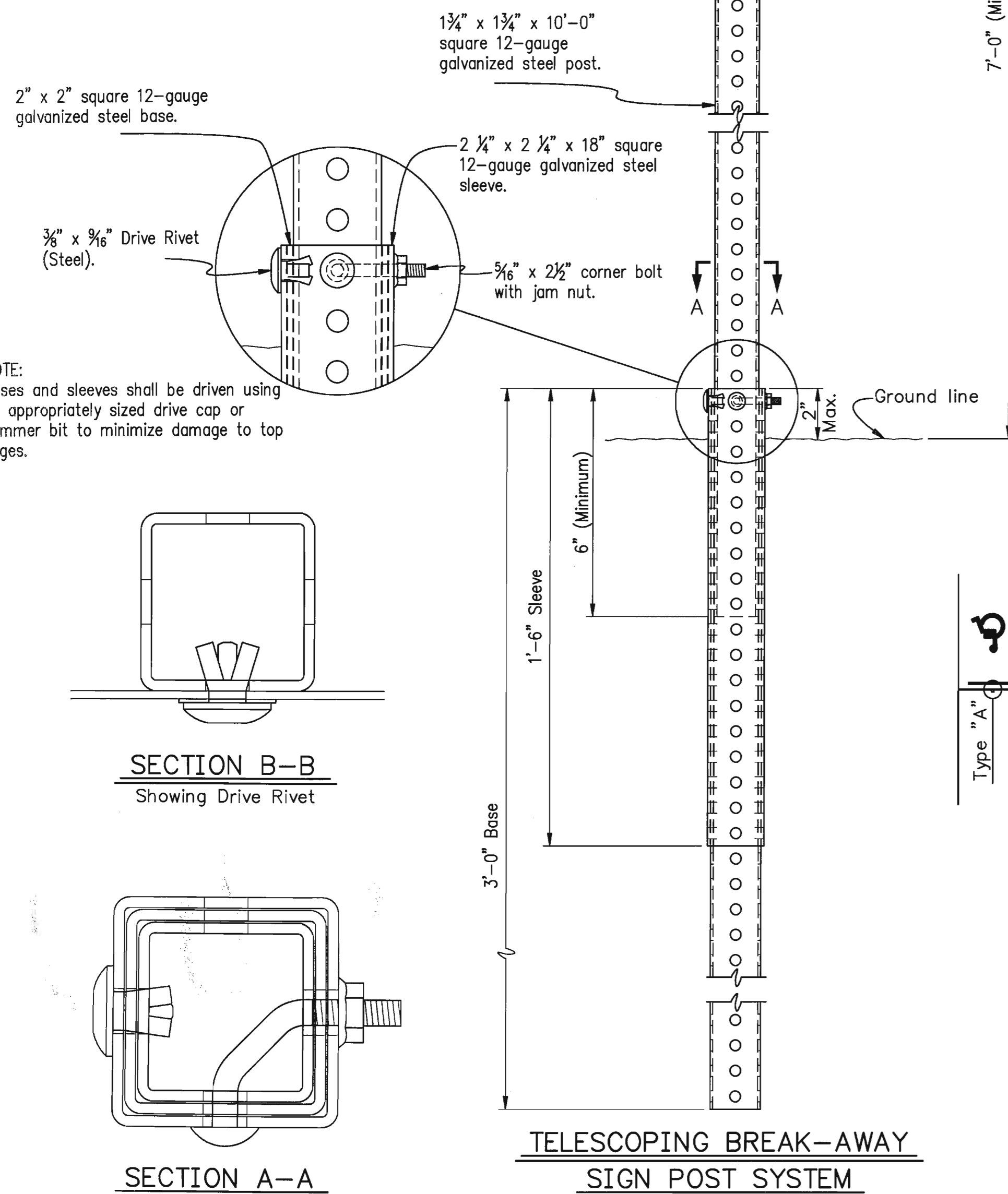
RESERVED PARKING SIGN CONFIGURATION TYPE

West Sedgwick County Park Improvements
Reserved Parking Sign Installation Details

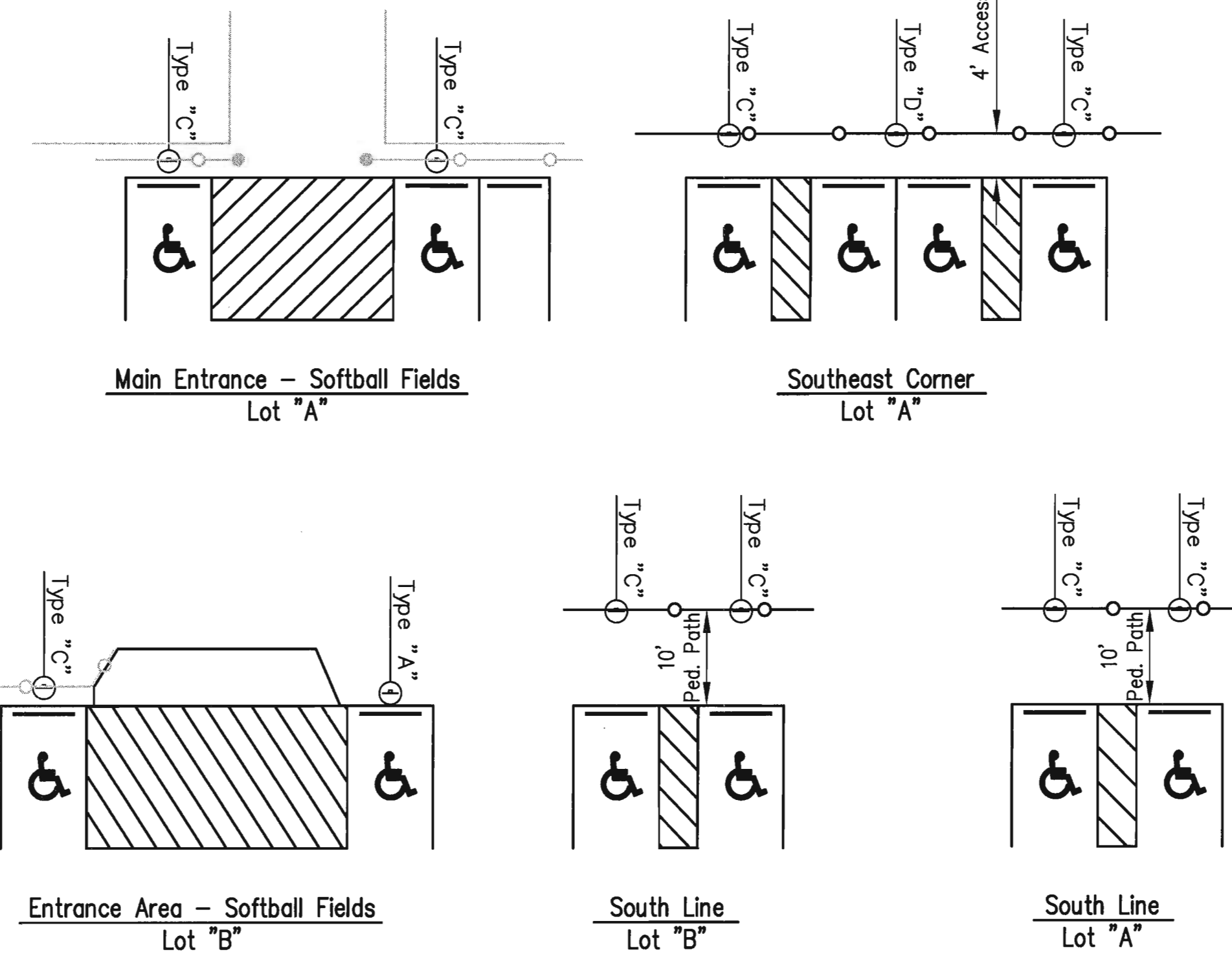
PREPARED BY
SEDGWICK COUNTY PUBLIC WORKS
HIGHWAY DEPARTMENT

DAVID C. SPEARS, P.E.				DIRECTOR/COUNTY ENGINEER	
REVISED	SCALE	DESIGNED	DRAWN	CHECKED	SHEET NO.
	NONE	M.R.B.	D.R.S.	M.R.B.	31
	DATE	3/2004	3/2004	3/2004	

DWG: Reserved Parking Sign Details.dwg

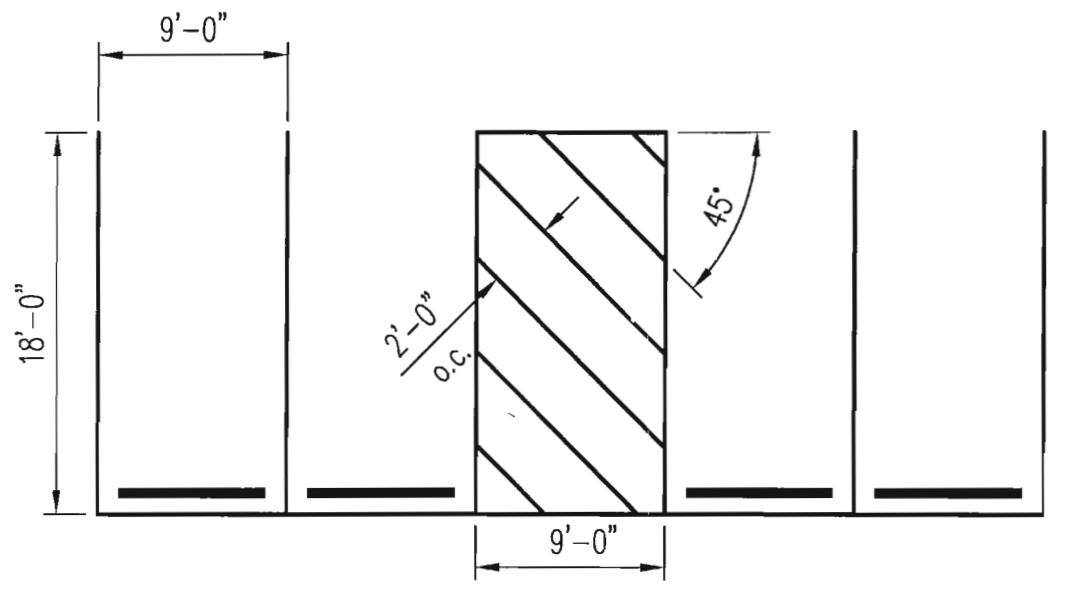


TELESCOPING BREAK-AWAY SIGN POST SYSTEM

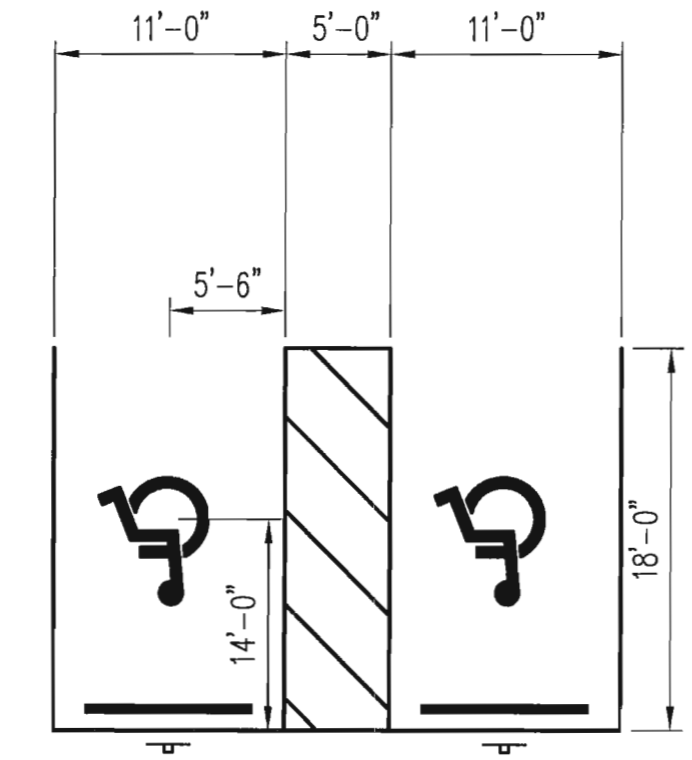


TYPICAL POST/SIGN CONFIGURATION TYPE AND LOCATION

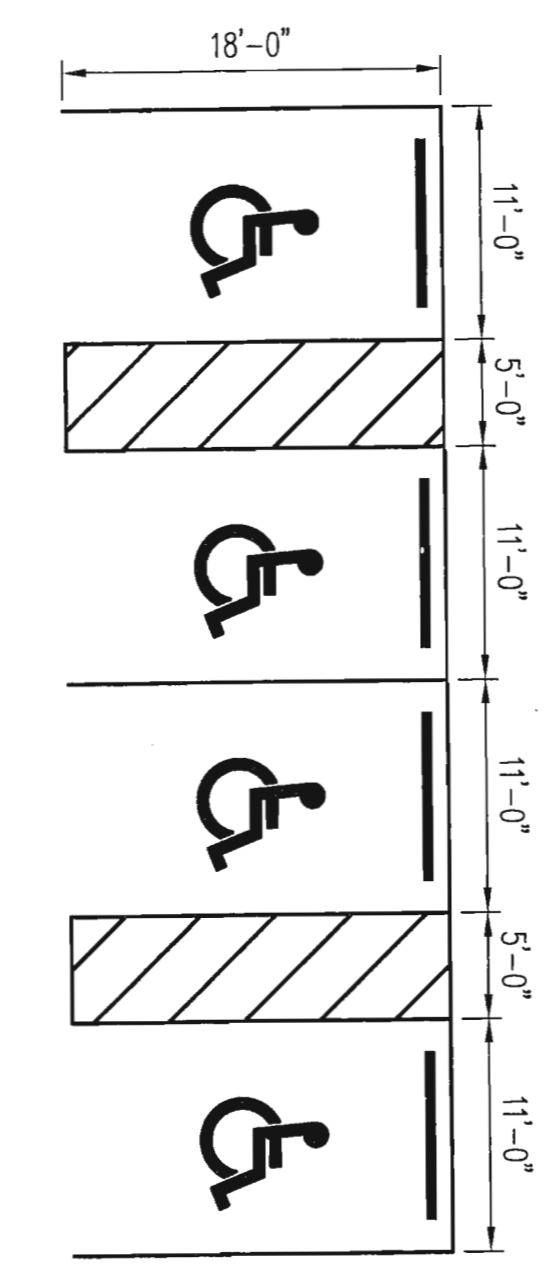
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TYPICAL PARKING STALL



TYPICAL HANDICAP STALL



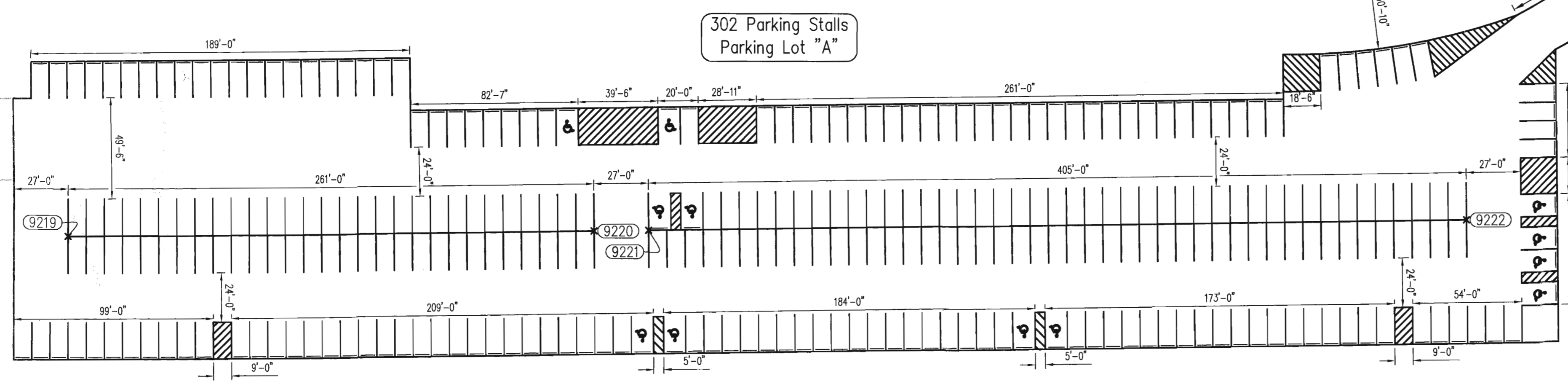
TYPICAL HANDICAP STALL

Point #	Elevation	Northing	Easting	Description
9219	1322.04	1695468.42	1623075.62	Stall
9220	1320.64	1695472.30	1623336.59	Stall
9221	1320.58	1695472.70	1623363.59	Stall
9222	1319.90	1695478.73	1623768.55	Stall
9301	1319.00	1695641.00	1623906.81	EOP
9302	1318.81	1695657.49	1623917.58	Stall
9327	1318.68	1695627.71	1623976.70	Stall
9328	1319.10	1695672.70	1623977.28	Stall
9329	1318.64	1695626.93	1624036.69	Stall
9330	1318.10	1695761.92	1624038.43	Stall
9331	1318.66	1695626.16	1624096.69	Stall
9332	1318.29	1695860.14	1624099.70	Stall
9333	1318.75	1695625.39	1624156.68	Stall
9334	1318.28	1695949.37	1624160.85	Stall
9335	1318.37	1695624.62	1624216.68	Stall
9336	1318.24	1695975.59	1624221.19	Stall

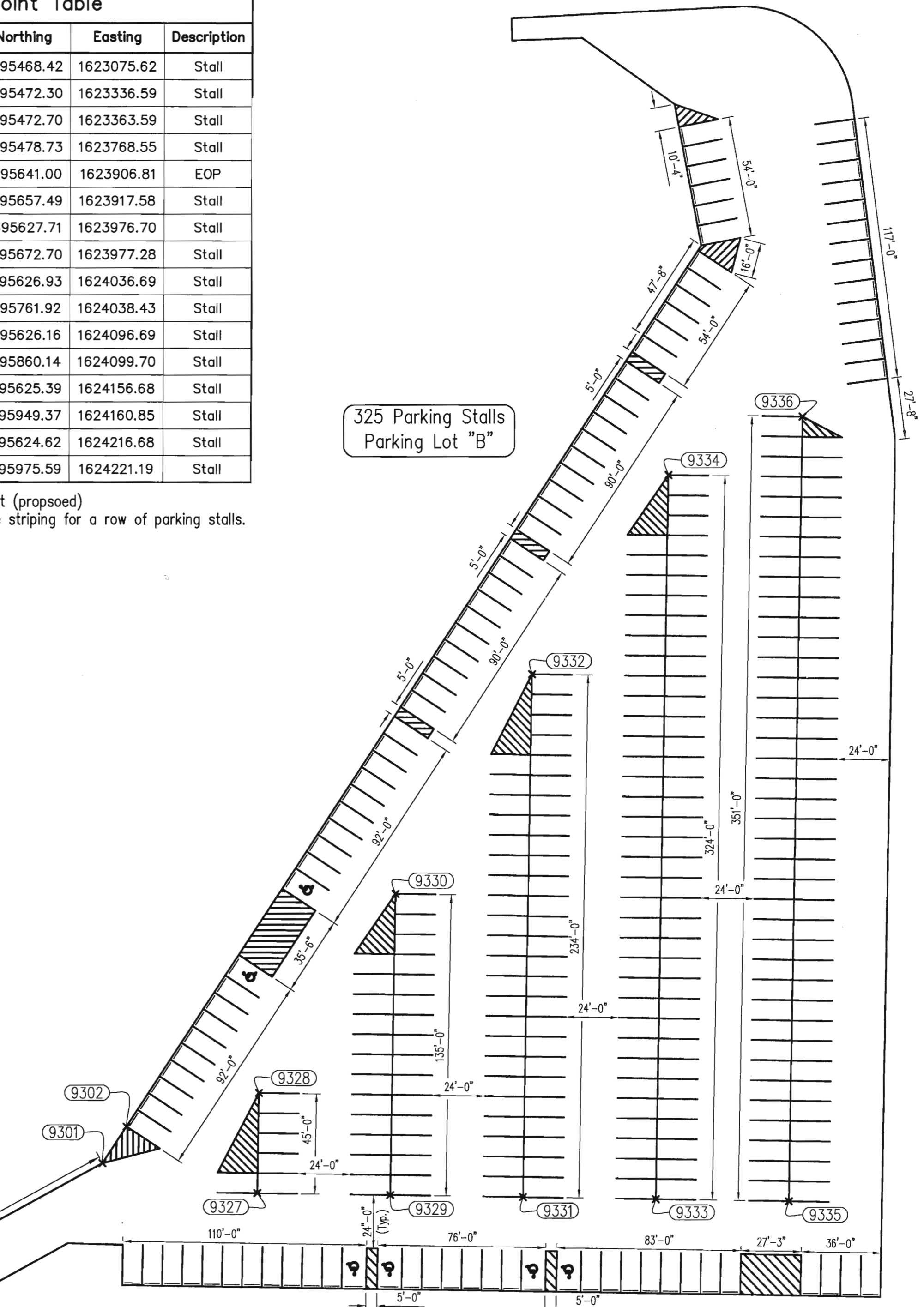
EOP = Edge of pavement (proposed)
 Stall = End of centerline striping for a row of parking stalls.

SUMMARY OF QUANTITIES		
Item	Qty.	Unit
Pavement Marking (Paint) (White) (4")	17,115	Lin. Ft.
Pavement Marking Symbol (White) (Handicap)	18	Each

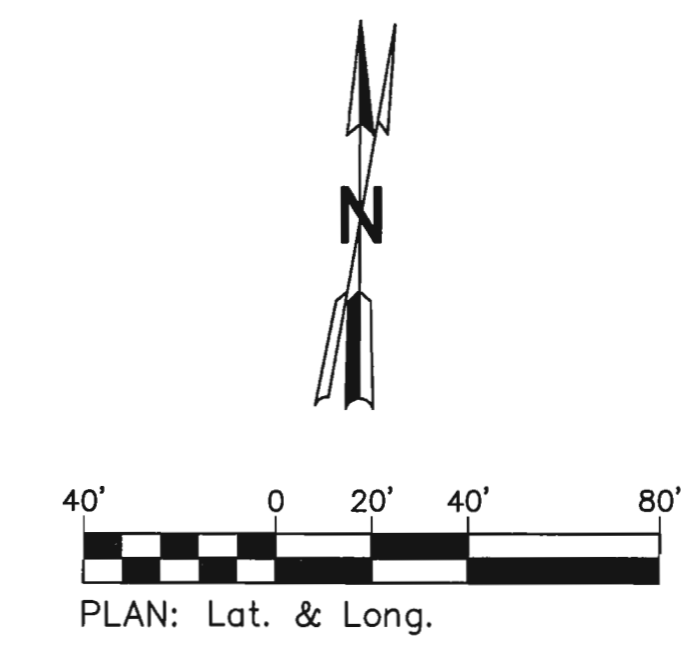
- NOTES:
- All pavement marking shall conform to the requirements of the Kansas Department of Transportation Standard Specifications for State Road and Bridge Construction (2007), except no glass beads shall be required to be applied.
 - All pavement marking shall be 4" width.
 - See Sh. No. 31 for reserved parking sign details.
 - See Sh. No. 22 for reserved parking sign quantities.



302 Parking Stalls
Parking Lot "A"



325 Parking Stalls
Parking Lot "B"



West Sedgwick County Park Improvements

PAVEMENT MARKING DETAILS

PREPARED BY
 SEDGWICK COUNTY PUBLIC WORKS
 HIGHWAY DEPARTMENT

DAVID C. SPEARS, P.E. DIRECTOR/COUNTY ENGINEER

REVISED	SCALE	DESIGNED	DRAWN	CHECKED	SHEET NO.
	1"=40'	L.T.P.	J.R.W.	M.R.B.	32
	DATE	5/2013	5/2013	6/2013	

DWG: SCP-1.dwg

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Device: DWFx EPlot (XPS Compatible).pc3 Page Setup: 1050C 36x22 Mono Final By: Packer, Lynn T. O:\Projects\Sedgwick County Sports Complex\Construction Sequence.dwg Layout: Construction Sequence Plotted: 6/9/2013 9:24 PM

COUNTY	STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
SEDGWICK	KANSAS	SCP-1	2013	33	39

PHASE	TRAFFIC CONTROL	MAJOR CONSTRUCTION ITEMS	REMARKS
1	<ol style="list-style-type: none"> Close Lot "B" from access via Lot "A" and rear maintenance gate. Close bike path to pedestrian access by pedestrian bridge and near Ridge Rd. 	<ol style="list-style-type: none"> Install erosion control BMP's per Contract Documents. Clear and grub work area as necessary. <ol style="list-style-type: none"> Remove chain link fence to clear trenching operations (if necessary). Coordinate fence removal with TRYC representatives. Construct sanitary sewer extension. 	<ol style="list-style-type: none"> All traffic control shall comply with the Manual on Traffic Control devices (MUTCD) for Streets and Highways (latest edition). Any open trench shall be properly secured whenever work is not active.
2	<ol style="list-style-type: none"> Maintain closure of Lot "B." Maintain closure of bike path until work north of tributary channel is complete. 	<ol style="list-style-type: none"> Scarify existing surface in Lot "B". Construct cementitious slurry treated base. Construct RCC surface course. Construct earth wedge and embankment around lot perimeter. 	<ol style="list-style-type: none"> All traffic control shall comply with the Manual on Traffic Control devices (MUTCD) for Streets and Highways (latest edition). Any open trench shall be properly secured when ever work is not active. Re-open bike path without delay.
3	<ol style="list-style-type: none"> Close Lot "A" at main gate. No access. Maintain closure of Lot "B" from rear maintenance gate. Maintain closure of bike path until concrete path is cured. 	<ol style="list-style-type: none"> Scarify existing surface in Lot "A". Construct cement treatment base. Construct RCC surface course. Construct earth wedge around lot perimeter. 	<ol style="list-style-type: none"> All traffic control shall comply with the Manual on Traffic Control devices (MUTCD) for Streets and Highways (latest edition).
4	<ol style="list-style-type: none"> Maintain closure of Lots "A" and "B". 	<ol style="list-style-type: none"> Complete lot striping. Install reserved parking signs on posts and fences. Complete seeding operations. 	<ol style="list-style-type: none"> All traffic control shall comply with the Manual on Traffic Control devices (MUTCD) for Streets and Highways (latest edition). Striping and sign installation may occur after the September 13 completion date under open traffic conditions.

GENERAL NOTES

The sequence shown is intended as a guide for major construction items only. The contractor will be responsible for all minor items and for maintaining adequate drainage at all times. The contractor will be responsible for the coordination of all major items. Variations to the sequence shown shall be submitted in writing with all necessary drawings for the prior approval of the Engineer. Construction traffic shall be essentially in accordance with that shown. Major work not constructed within the indicated phase shall be approved by the Engineer.

All signs and pavement markings conflicting with this traffic control shall be covered or removed as directed by the Engineer.

See Traffic Control Notes, Sheet Nos. 38 - 39.

Contacts:

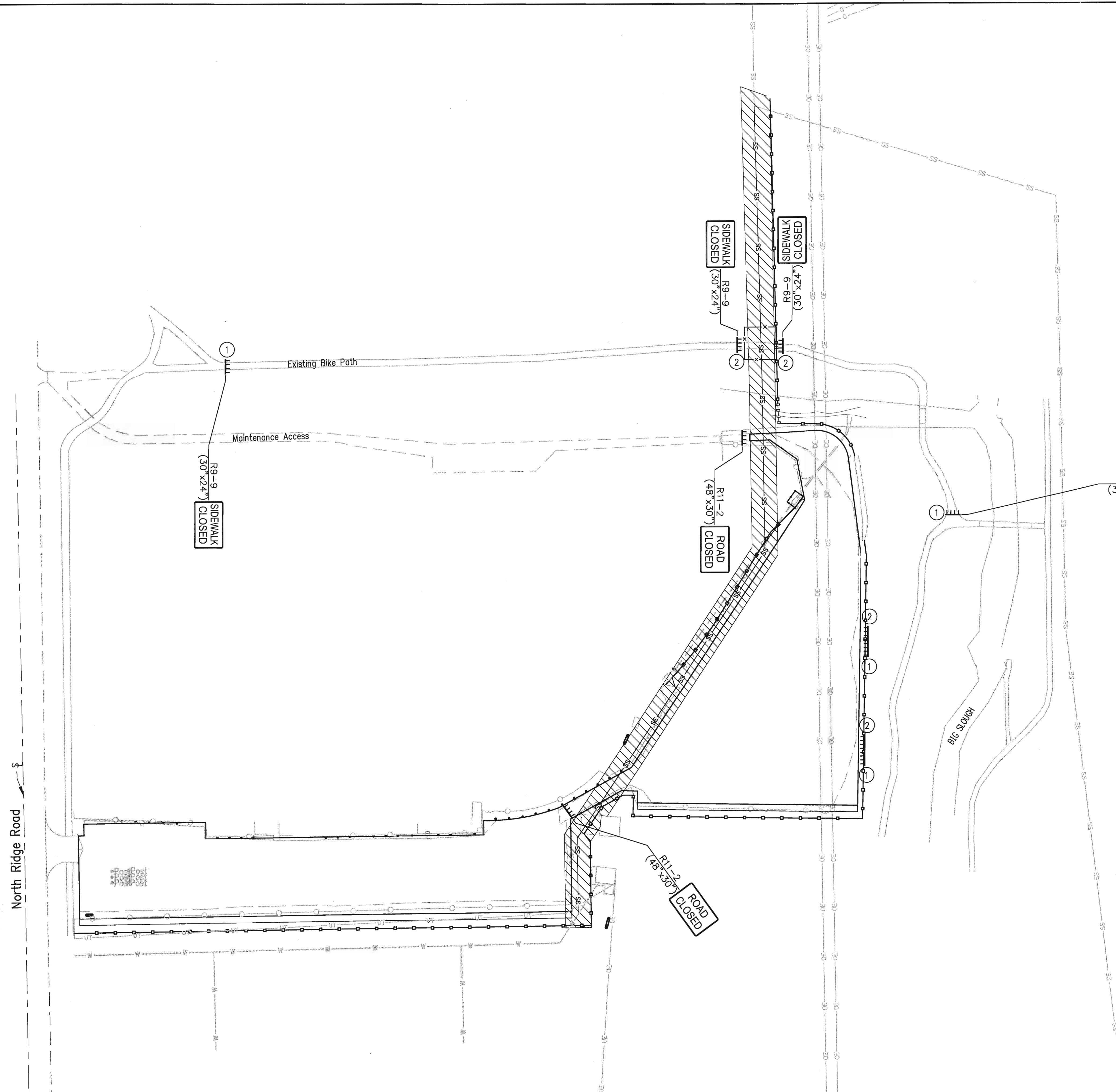
AYSO: Craig Bay (316) 641-8607
 TRYC: John Rogers (316) 371-4889

West Sedgwick County Park Improvements
CONSTRUCTION SEQUENCE

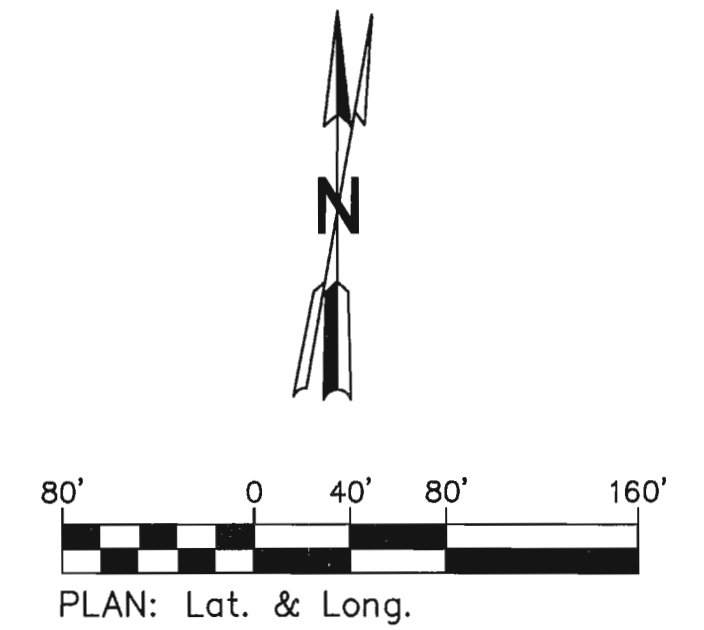
PREPARED BY SEDGWICK COUNTY PUBLIC WORKS HIGHWAY DEPARTMENT					
DAVID C. SPEARS, P.E.			DIRECTOR/COUNTY ENGINEER		
REVISED	SCALE	DESIGNED	DRAWN	CHECKED	SHEET NO.
	NONE	L.T.P.	J.R.W.	M.R.B.	33
	DATE	5/2013	5/2013	5/2013	
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COUNTY	STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
SEDGWICK	KANSAS	SCP-1	2013	34	39

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 O: \Projects\Sedgwick County Sports Complex SCP-1.dwg Layout: Construction Phasing Phase 1 Plotted: 6/9/2013 9:24 PM



- ① Use Type III Barricades to close the accessible route to the satisfaction of the Engineer.
- ② Use Type III Barricades to deter pedestrian traffic from entering the work zone and surrounding areas. Snow fence may alternatively be installed to prevent access.



LEGEND

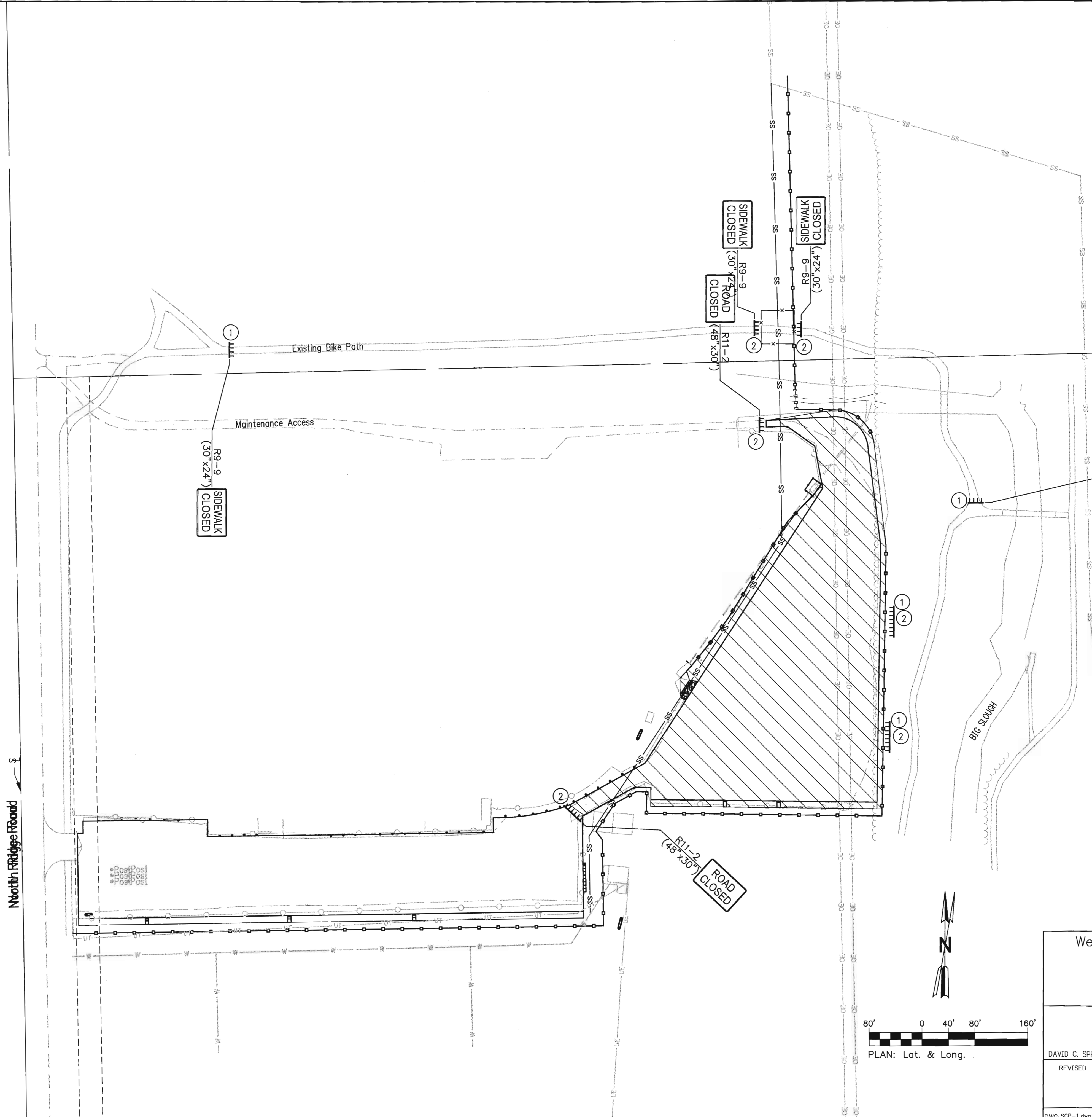
- Sanitary sewer Construction Area
- Existing sanitary sewer
- Proposed sanitary sewer
- Type 3 Barricade
- Snow Fence

West Sedgwick County Park Improvements
TRAFFIC CONTROL
 Phase 1

PREPARED BY					DIRECTOR/COUNTY ENGINEER
SEDGWICK COUNTY PUBLIC WORKS HIGHWAY DEPARTMENT					
DAVID C. SPEARS, P.E.					
REVISIONS	SCALE	DESIGNED	DRAWN	CHECKED	SHEET NO.
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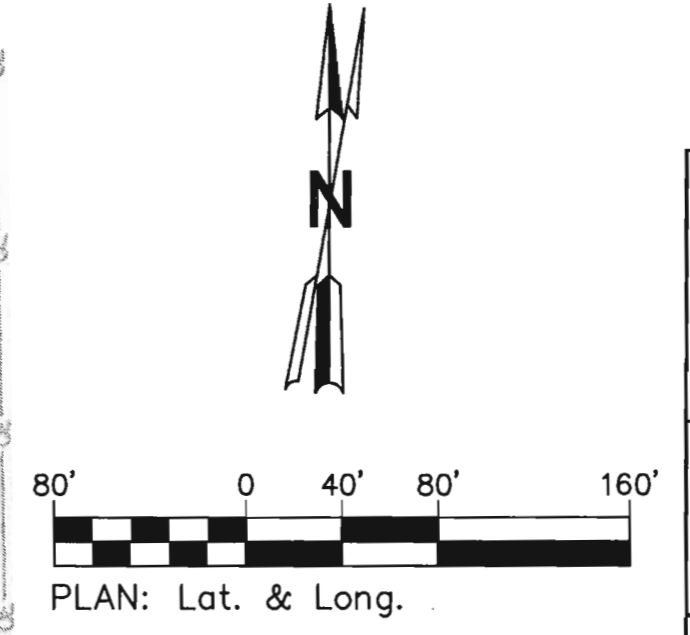
COUNTY	STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
SEDGWICK	KANSAS	SCP-1	2013	35	39

- ① Use Type III Barricades to close the accessible route to the satisfaction of the Engineer.
- ② Use Type III Barricades to deter pedestrian traffic from entering the work zone and surrounding areas. Snow fence may alternatively be installed to prevent access.



LEGEND

	- Work Area
	- Existing sanitary sewer
	- Proposed sanitary sewer
	- Type 3 Barricade
	- Snow Fence



**West Sedgwick County Park Improvements
TRAFFIC CONTROL
Phase 2**

PREPARED BY
SEDGWICK COUNTY PUBLIC WORKS
HIGHWAY DEPARTMENT

DAVID C. SPEARS, P.E. DIRECTOR/COUNTY ENGINEER



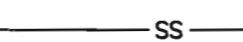

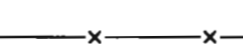
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	DATE	5/2013	5/2013	6/2013	

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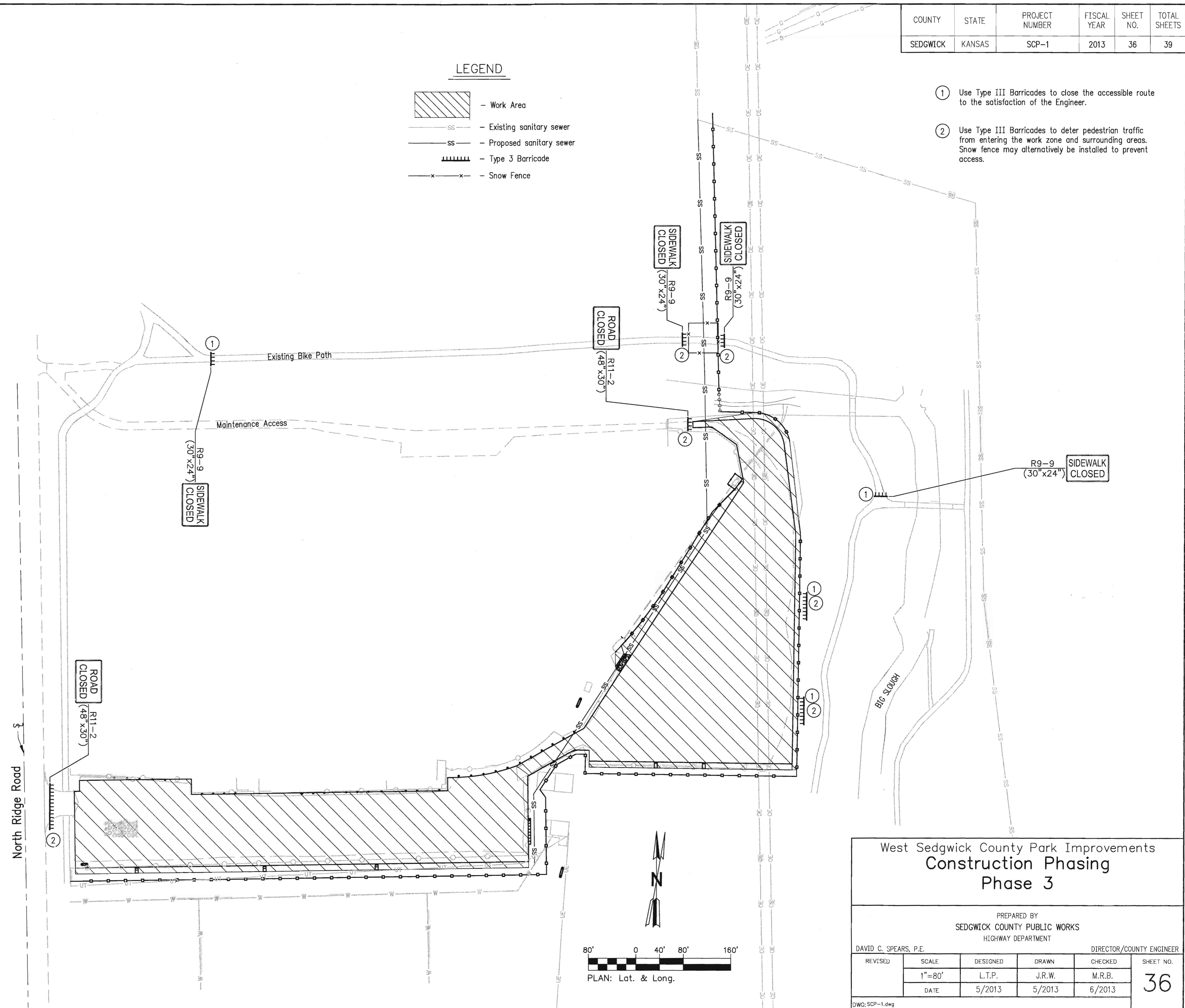
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COUNTY	STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
SEDGWICK	KANSAS	SCP-1	2013	36	39

LEGEND

-  - Work Area
-  - Existing sanitary sewer
-  - Proposed sanitary sewer
-  - Type 3 Barricade
-  - Snow Fence

- ① Use Type III Barricades to close the accessible route to the satisfaction of the Engineer.
- ② Use Type III Barricades to deter pedestrian traffic from entering the work zone and surrounding areas. Snow fence may alternatively be installed to prevent access.



**West Sedgwick County Park Improvements
Construction Phasing
Phase 3**

PREPARED BY
SEDGWICK COUNTY PUBLIC WORKS
HIGHWAY DEPARTMENT

DAVID C. SPEARS, P.E. DIRECTOR/COUNTY ENGINEER

REVISED	SCALE	DESIGNED	DRAWN	CHECKED	SHEET NO.
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	DATE	5/2013	5/2013	6/2013	

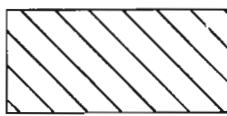

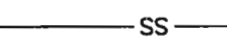

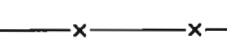
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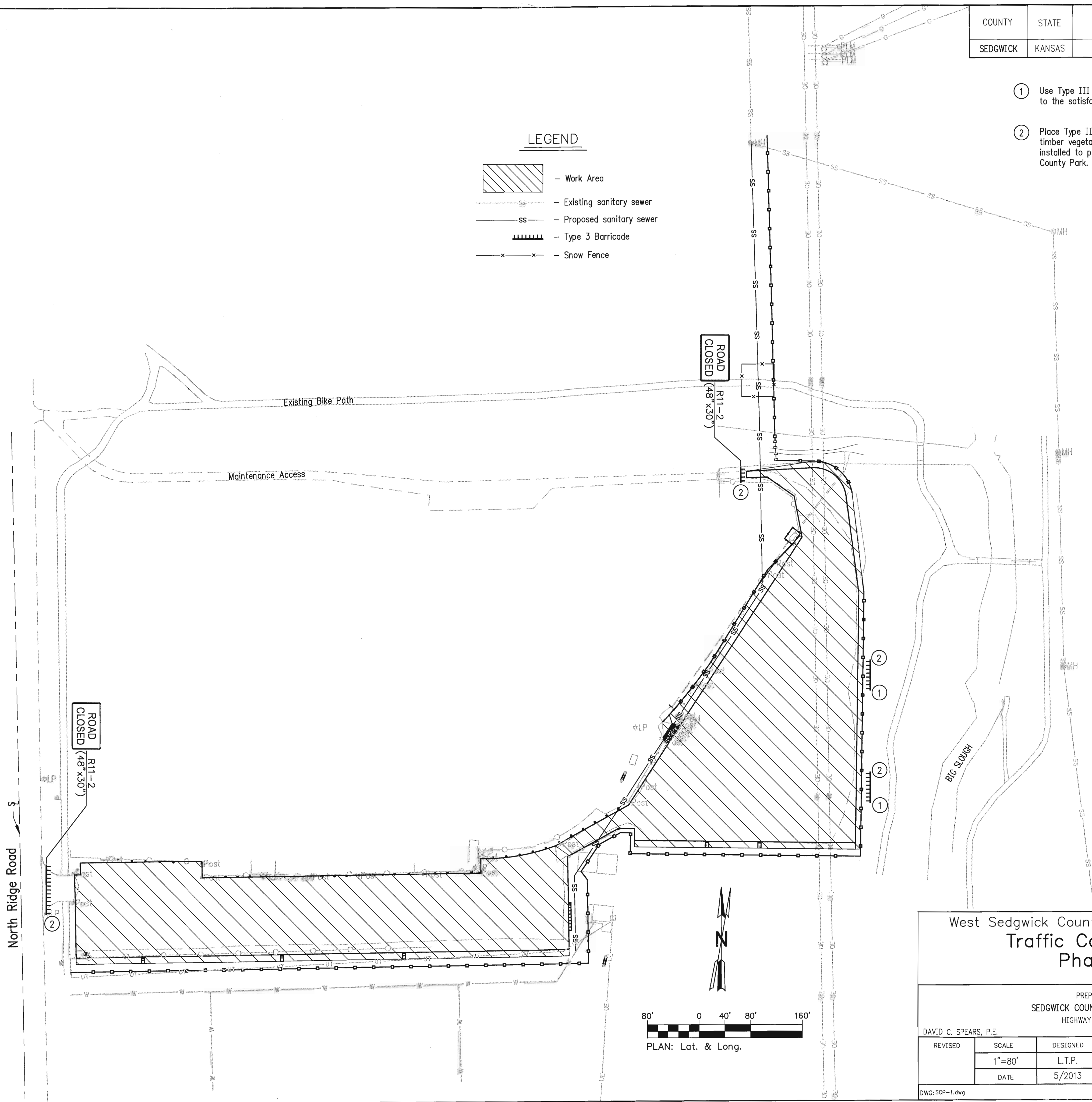
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COUNTY	STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
SEDGWICK	KANSAS	SCP-1	2013	37	39

- ① Use Type III Barricades to close the accessible route to the satisfaction of the engineer.
- ② Place Type III Barricades in front of openings in timber vegetation. Snow fence may alternatively be installed to prevent pedestrian access from Sedgwick County Park.

LEGEND

-  - Work Area
-  - Existing sanitary sewer
-  - Proposed sanitary sewer
-  - Type 3 Barricade
-  - Snow Fence



West Sedgwick County Park Improvements
**Traffic Control Plan
Phase 4**

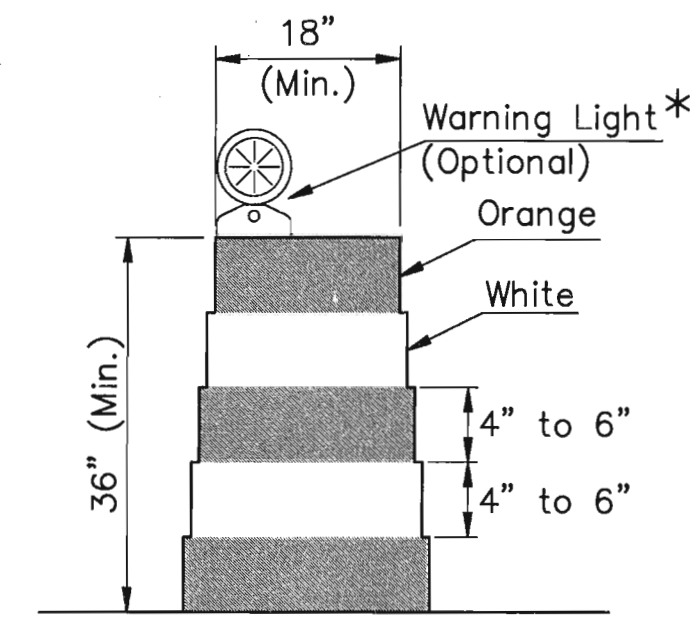
PREPARED BY SEDGWICK COUNTY PUBLIC WORKS HIGHWAY DEPARTMENT				DIRECTOR/COUNTY ENGINEER
DAVID C. SPEARS, P.E.				
REVISED	SCALE	DESIGNED	DRAWN	CHECKED
	1"=80'	L.T.P.	J.R.W.	M.R.B.
	DATE	5/2013	5/2013	6/2013
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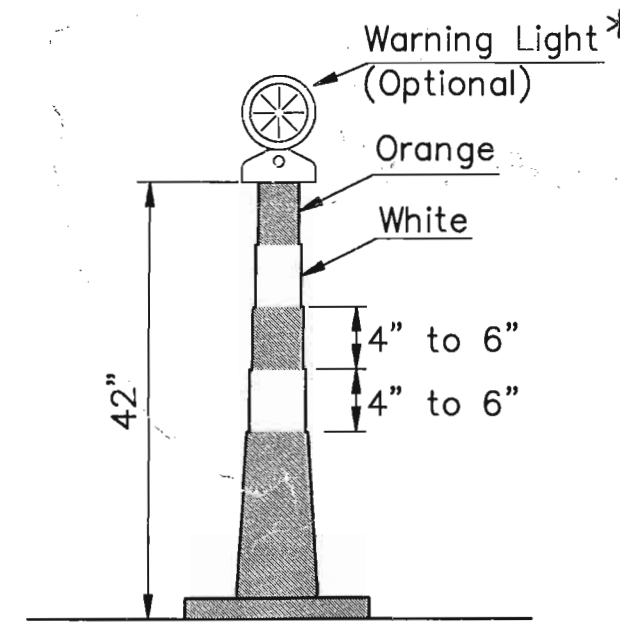
TRAFFIC CONTROL NOTES

COUNTY	STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
SEDGWICK	KANSAS	SCP-1	2013	38	39

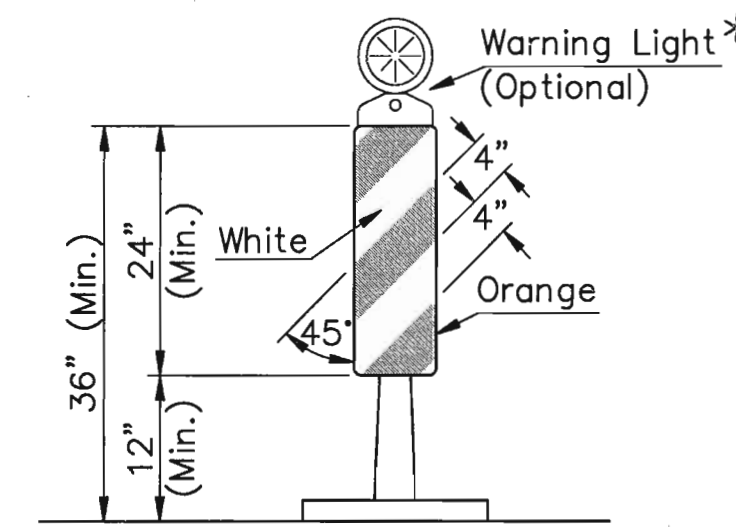
- All traffic control devices and installation or use thereof shall comply with the Manual on Uniform Traffic Control Devices for Streets and Highways (Latest Edition), and all traffic control devices shall be NCHRP 350 compliant with respect to crashworthiness requirements.
- When no work is in progress nor is any expected to be for an extended period of time, or there are no existing hazards, and the roadway is unrestricted to the traveling public, traffic control signs shall be removed or completely covered with adequate opaque waterproof material.
- All signs shall be post mounted if time in place exceeds three (3) days. Exceptions may be made particularly in urban areas where post-mounted signs are prohibitive. Posts shall be 4" X 4" wood or other breakaway supports that are NCHRP 350 compliant. Signs with a minimum area of 16 square feet shall be mounted on a minimum of two posts.
- Portable supports used for mounting signs or devices for temporary conditions shall be NCHRP 350 compliant.
- All permanent speed limit signs that conflict with the posted project speed limit shall be removed and stored, or covered with adequate opaque waterproof material throughout the construction period.
- Whenever practical, all construction equipment, materials, and debris shall be stored no closer than thirty (30) feet from the traveled way. The contractor shall place appropriate signs or barricades, as directed by the Engineer, around any condition created by the contractor within thirty (30) feet of the traveled way that violates clear zone criteria stated herein. All devices needed to meet this requirement shall be considered subsidiary to the bid item "Traffic Control".
- Type "B" high intensity yellow flashing warning lights may be required on any sign or device when deemed necessary by the Engineer.
- The contractor is responsible for maintaining all devices in their proper position, cleaning or replacing any damaged or worn out device as directed by the Engineer without undue delay to ensure effective and safe traffic control.
- The contractor shall designate an employee, and an alternate, who will have the responsibility for signing and traffic control as noted on the traffic control plan and shall be available at all times to perform the above maintenance. The Engineer will be advised of the name and contact numbers/methods of the person and alternate given this responsibility. The Engineer shall conduct daily field inspections to see that the devices are in place and in satisfactory condition.
- Channelization devices: Devices as used herein may include Type I and Type II barricades in addition to the devices shown on this sheet.
 - The maximum spacing, in feet, between channelization devices in the taper should be approximately equal to the permanent speed limit, in miles per hour, prior to construction.
 - The spacing between devices in the work zone should be approximately 50 to 100 feet or as designated in the traffic control plan.
 - Devices placed along pavement edge or shoulder drop-offs of less than four (4) inches shall be placed a maximum of four hundred (400) feet apart as directed by the Engineer.
 - Devices placed along pavement edge or shoulder drop-offs of more than four (4) inches shall be placed a maximum of two hundred (200) feet apart as directed by the Engineer.
 - Type I or Type II barricades should be placed at approximately right angles to the centerline of the roadway.
 - All channelizing devices shall be fully reflectorized and, as directed by the Engineer, display the appropriate warning light on top of the device nearest the traveled way centerline.
- The lump sum price bid for the bid item "Traffic Control" shall be full compensation for providing, installing, moving, replacing, maintaining, removing and cleaning all traffic control devices, as required or as directed by the Engineer. It shall also include the addition of any devices deemed necessary by the Engineer whether specifically mentioned or not.
- At all times, and during all weather conditions, access shall be maintained for local traffic to the satisfaction of the Engineer. This maintenance, including temporary surfacing material, if necessary, is subsidiary to the bid item "Traffic Control".
- All advance warning signs shall have a minimum surface area of 16 square feet. All other signs shall be of standard size as directed in the MUTCD or the most recent edition of the Standard Highway Signs Manual unless specified otherwise on the traffic control plan.



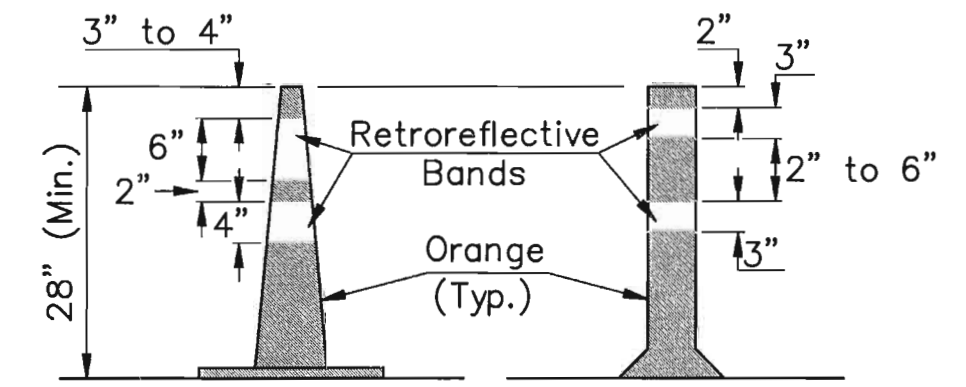
NON-METALLIC REFLECTORIZED DRUM WITH LIGHT



SLIMLINE CHANNELIZER



VERTICAL PANEL



CONES TUBULAR MARKERS

WARNING LIGHTS

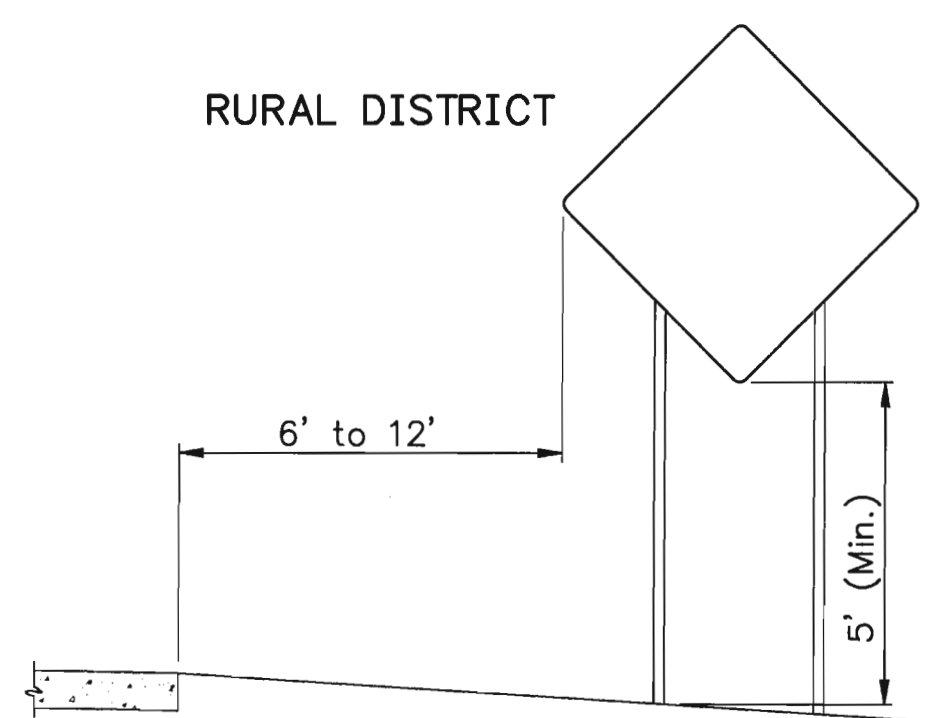
Warning lights shall be in accordance with the current ITE purchase specifications for flashing and steady burn warning lights.

Type A low intensity flashing warning lights and Type C steady burn warning lights shall be maintained so as to be capable of being visible on a clear night from a distance of 3,000 feet. Type B high intensity flashing warning lights shall be maintained so as to be capable of being visible on a sunny day when viewed without the sun directly on or behind the device from a distance of 1,000 feet.

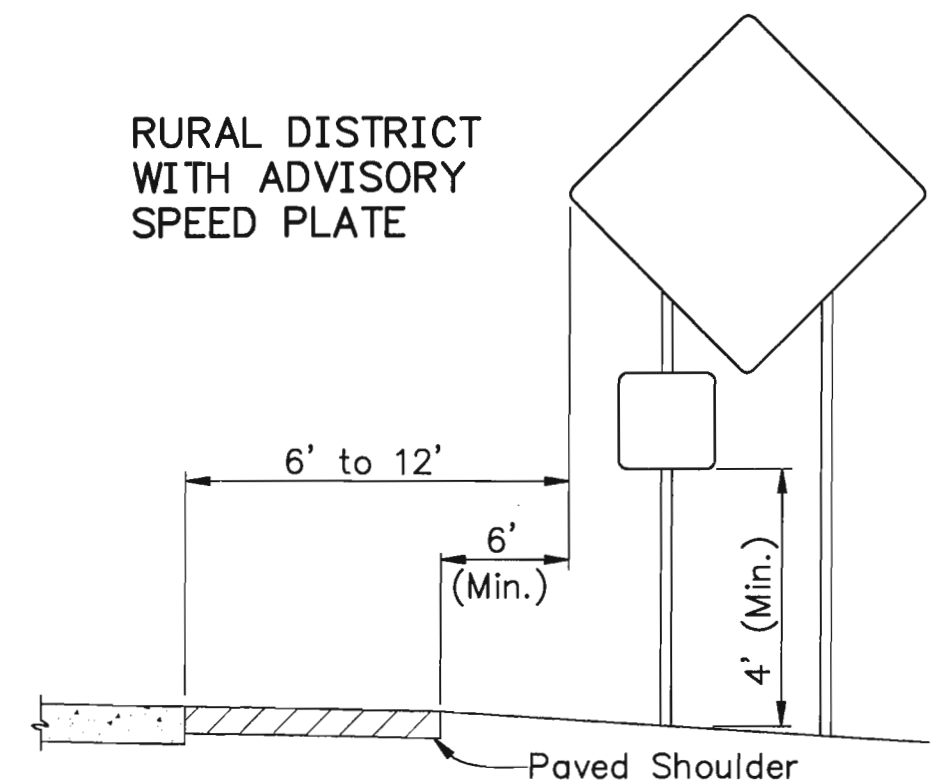
* Lights used on Channelizing Devices
 When used singly --- Type "A" Flashing
 When used in series - Type "C" Steady Burn
 The lens shall be a minimum of 7" in diameter.

The non-metallic drums shall be fully reflectorized with Type III or Type IV reflective sheeting per FP-96.

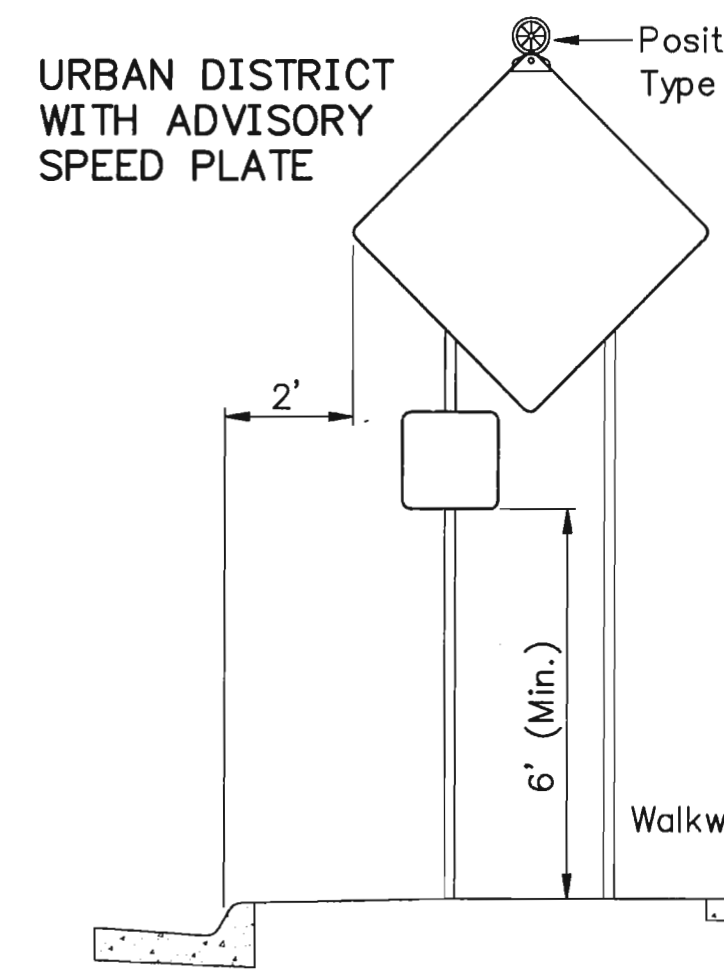
All advance warning signs shall be reflectorized with fluorescent orange prismatic grade reflective sheeting.



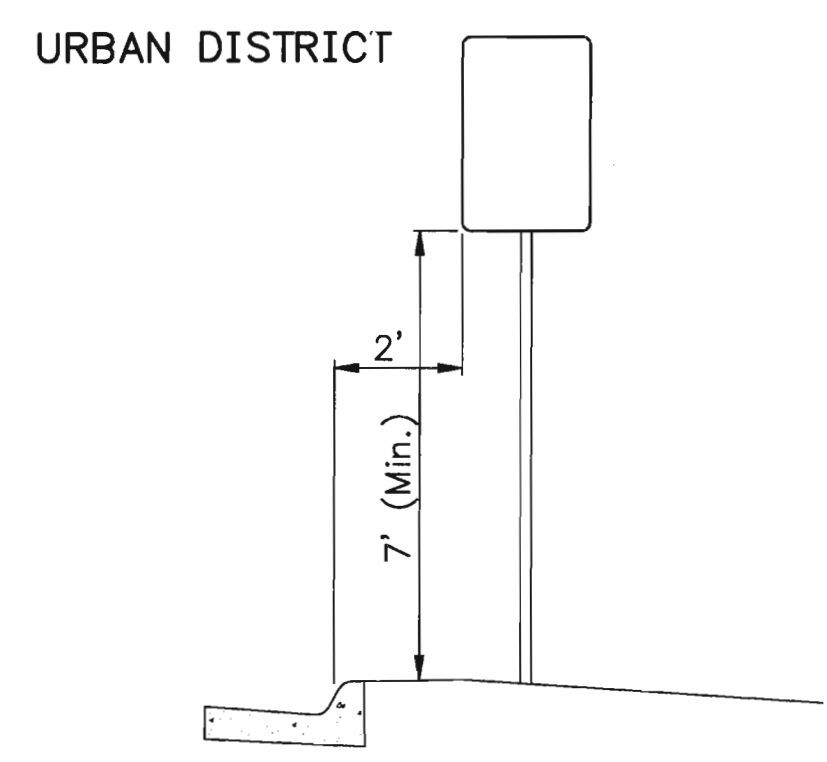
RURAL DISTRICT



RURAL DISTRICT WITH ADVISORY SPEED PLATE

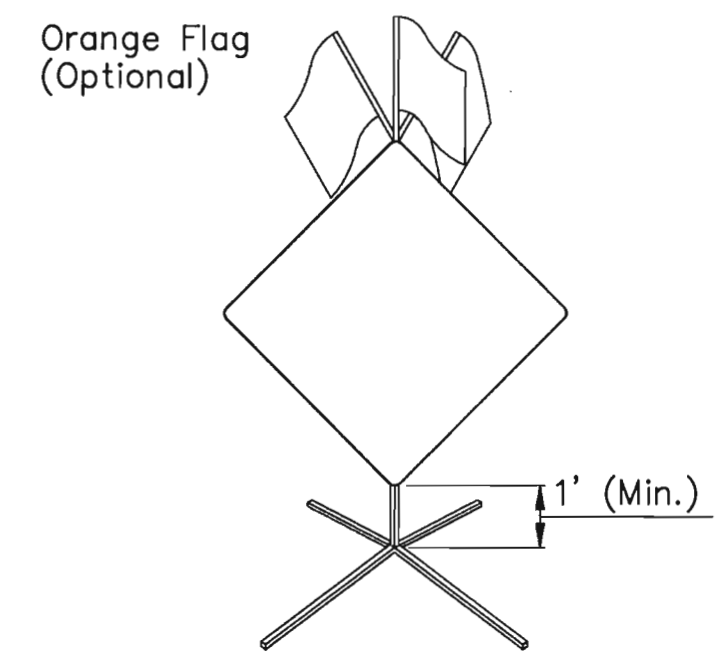


URBAN DISTRICT WITH ADVISORY SPEED PLATE



URBAN DISTRICT

SIGN MOUNTING LOCATIONS



Portable sign supports should not be used for more than three continuous days.

PORTABLE/TEMPORARY SIGN MOUNTING

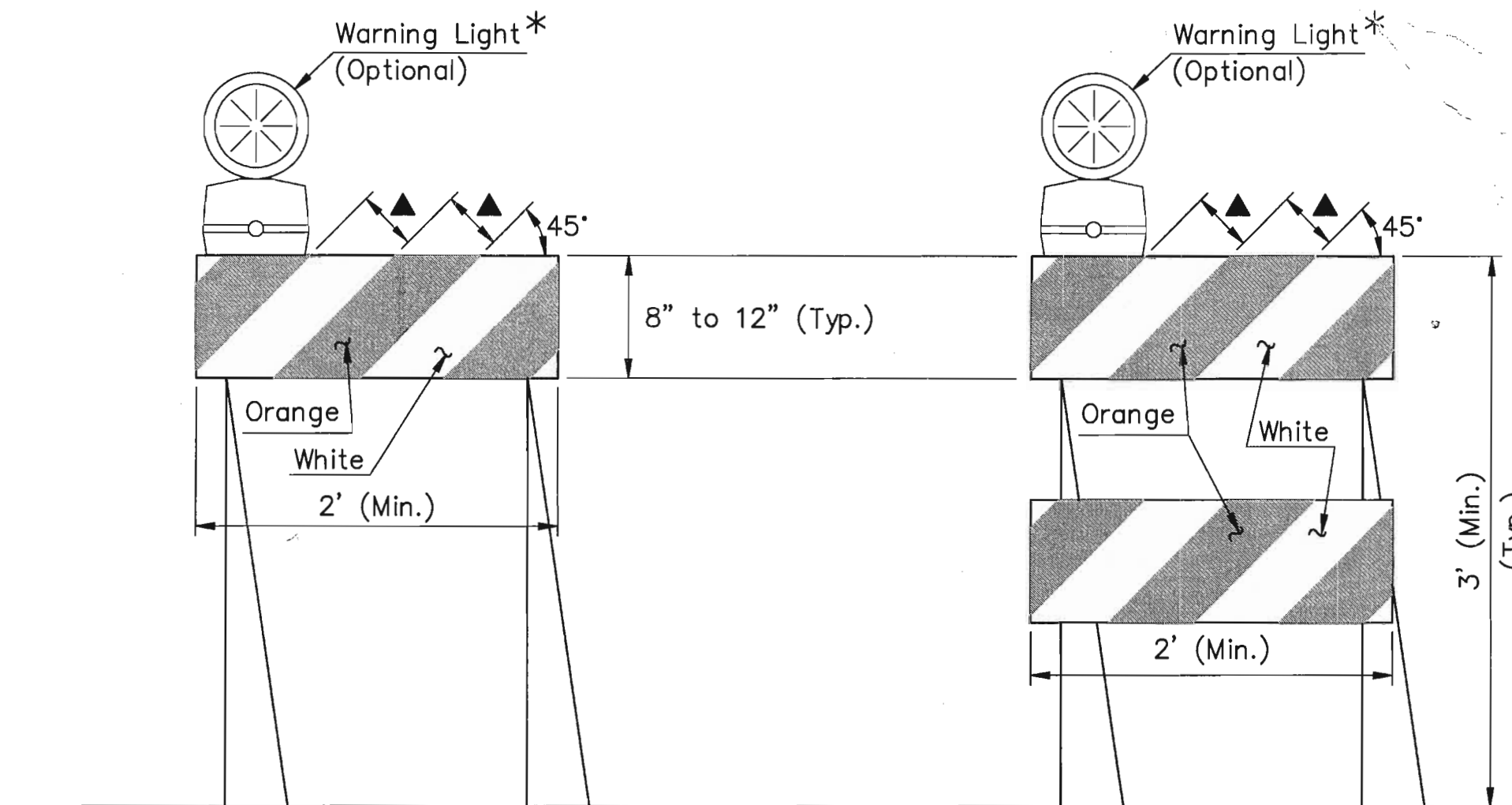
7/2009	Update Notes 3,6,10,10B,10E & warning light sym.	DRS/MRB
Rev.Date	Description	By /Chk
West Sedgwick County Park Improvements TRAFFIC CONTROL DETAILS SIGNS & CHANNELIZATION DEVICES TC-1		
PREPARED BY SEDGWICK COUNTY PUBLIC WORKS HIGHWAY DEPARTMENT		
DAVID C. SPEARS, P.E.	DIRECTOR/COUNTY ENGINEER	
REVISED	SCALE	DESIGNED
	NONE	M.R.B.
	DATE	2/2005
	DRAWN	D.R.S.
	CHECKED	M.R.B.
	DATE	4/2005
		4/2005
SHEET NO.		38

Device: DWfx EPlot (XPS Compatible) pc3 Page Setup: 1050C 36x22 Mono Final By: Packer, Lynn T. O:\Projects\Sedgwick County Sports Complex\TC1-0.dwg Layout: TC-1 Plotted: 6/9/2013 9:25 PM

TRAFFIC CONTROL NOTES

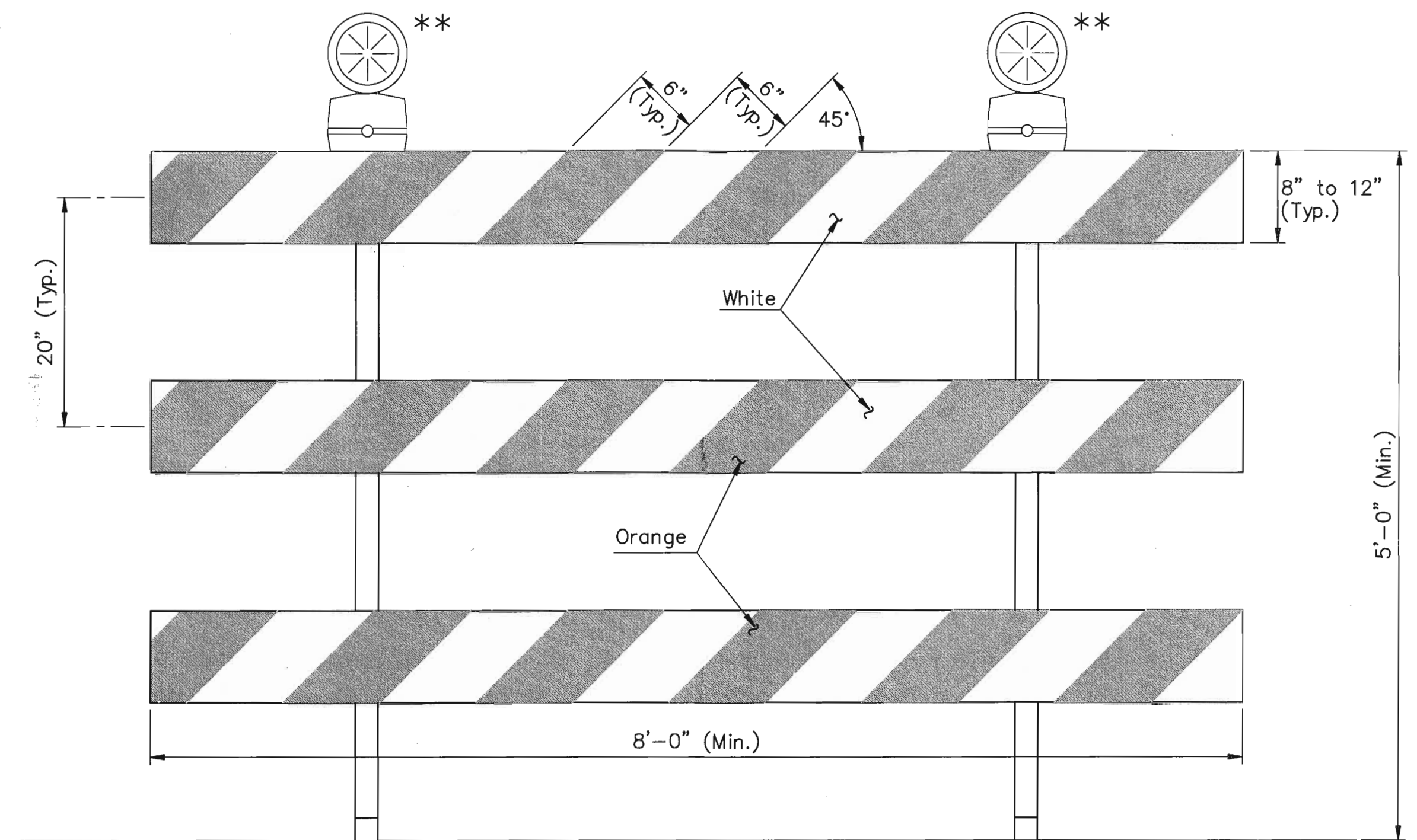
COUNTY	STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
SEDGWICK	KANSAS	SCP-1	2013	39	39

- All traffic control devices and installation or use thereof shall comply with the Manual on Uniform Traffic Control Devices for Streets and Highways (Latest Edition), and all traffic control devices shall be NCHRP 350 compliant with respect to crashworthiness requirements.
- Whenever practical, all construction equipment, materials, and debris shall be stored no closer than thirty (30) feet from the traveled way. The contractor shall place appropriate signs or barricades, as directed by the Engineer, around any condition created by the contractor with thirty (30) feet of the traveled way that violates clear zone criteria stated herein. All devices needed to meet this requirement shall be considered subsidiary to the bid item "Traffic Control".
- Type "B" high intensity yellow flashing warning lights may be required on Type III barricades when deemed necessary by the Engineer.
- Barricades are to be set at locations shown on the traffic control plan sheets or as directed by the Engineer. Sufficient barricades shall be erected to adequately cover the roadway or lane width. The barricades may be mounted on approved skids anchored by wire or sandbags.
- The contractor is responsible for maintaining all devices in their proper position, cleaning or replacing any damaged or worn out device as directed by the Engineer without undue delay to ensure effective and safe traffic control.
- The contractor shall designate an employee, and an alternate, who will have the responsibility for signing and traffic control as noted on the traffic control plan and shall be available at all times to perform the above maintenance. The Engineer will be advised of the name and contact numbers/methods of the person and alternate given this responsibility. The Engineer shall conduct daily field inspections to see that the devices are in place and in satisfactory condition.
- Channelization devices: Devices as used herein shall include, but not be limited to Type I and Type II barricades.
 - The maximum spacing, in feet, between channelization devices in the taper should be approximately equal to the permanent speed limit, in miles per hour, prior to construction.
 - The spacing between devices in the work zone should be approximately 50 to 100 feet.
 - Devices placed along pavement edge or shoulder drop-offs of less than four (4) inches shall be placed a maximum of four hundred (400) feet apart as directed by the Engineer.
 - Devices placed along pavement edge or shoulder drop-offs of more than four (4) inches shall be placed a maximum of two hundred (200) feet apart as directed by the Engineer.
 - Type I or Type II barricades should be placed at approximately right angles to the center of the roadway.
 - All channelizing devices shall be fully reflectorized and, as directed by the Engineer, display the appropriate warning light on top of the device nearest the traveled way centerline.
- The lump sum price bid for the bid item "Traffic Control" shall be full compensation for providing, installing, moving, replacing, maintaining, removing and cleaning all traffic control devices as required or as directed by the Engineer. It shall also include the addition of any devices deemed necessary by the Engineer whether specifically mentioned or not.
- At all times, and during all weather conditions, access shall be maintained for local traffic to the satisfaction of the Engineer. This maintenance, including temporary surfacing material, if necessary, is subsidiary to the bid item "Traffic Control".



TYPE I BARRICADE WITH LIGHT

TYPE II BARRICADE WITH LIGHT



TYPE III BARRICADE WITH LIGHTS

Type I and Type II barricades along shoulder edges or in drop-offs shall have a minimum of 36" from the top of the barricade to the top of the pavement.

The entire area of barricade rails are to be fully reflectorized with Type III or Type IV sheeting per FP-96.

▲ Rail stripe widths shall be 6", except that 4" wide stripes may be used if rail lengths are less than 36".

WARNING LIGHTS

Warning lights shall be in accordance with the current ITE purchase specifications for flashing and steady burn warning lights.

Type A low intensity flashing warning lights and Type C steady burn warning lights shall be maintained so as to be capable of being visible on a clear night from a distance of 3,000 feet. Type B high intensity flashing warning lights shall be maintained so as to be capable of being visible on a sunny day when viewed without the sun directly on or behind the device from a distance of 1,000 feet.

* Lights used on Channelizing Devices
 When used singly --- Type "A" Flashing
 When used in series - Type "C" Steady Burn
 The lens shall be a minimum of 7" in diameter.

Signs mounted on Type III barricades should not cover more than 50 percent of the top two rails or 33 percent of the total area of the three rails.

Barricade rails shall be plastic and the complete barricade shall be NCHRP 350 compliant. For rails less than 3 feet long, 4 inch wide stripes may be used.

Where barricades extend entirely across a roadway, and where both right and left turns are provided for, the chevron striping shall slope downward in both directions from the center of the road. When a detour is provided the stripes shall slope downward in the direction toward which traffic must turn.

Barricades intended for use on expressways, freeways, and other high speed roadways shall have a minimum of 270 square inches of reflective area facing traffic.

** A minimum of two Type "A" lights shall be used at each location where a Type III barricade or barricades are used. A light shall be mounted on the outside corner at the end barricades when more than one is used. The lens shall be a minimum of 7" in diameter.

All barricades shall be faced with reflective sheeting on the front and back faces.

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Rev.Date	Description	By / Chk		
West Sedgwick County Park Improvements TRAFFIC CONTROL DETAILS BARRICADES				
TC-2				
PREPARED BY SEDGWICK COUNTY PUBLIC WORKS HIGHWAY DEPARTMENT				
DAVID C. SPEARS, P.E.		DIRECTOR/COUNTY ENGINEER		
REVISED	SCALE	DESIGNED	DRAWN	CHECKED
	NONE	M.R.B.	D.R.S.	M.R.B.
	DATE	2/2005	4/2005	4/2005
				39
DWG: TC2-0.dwg				