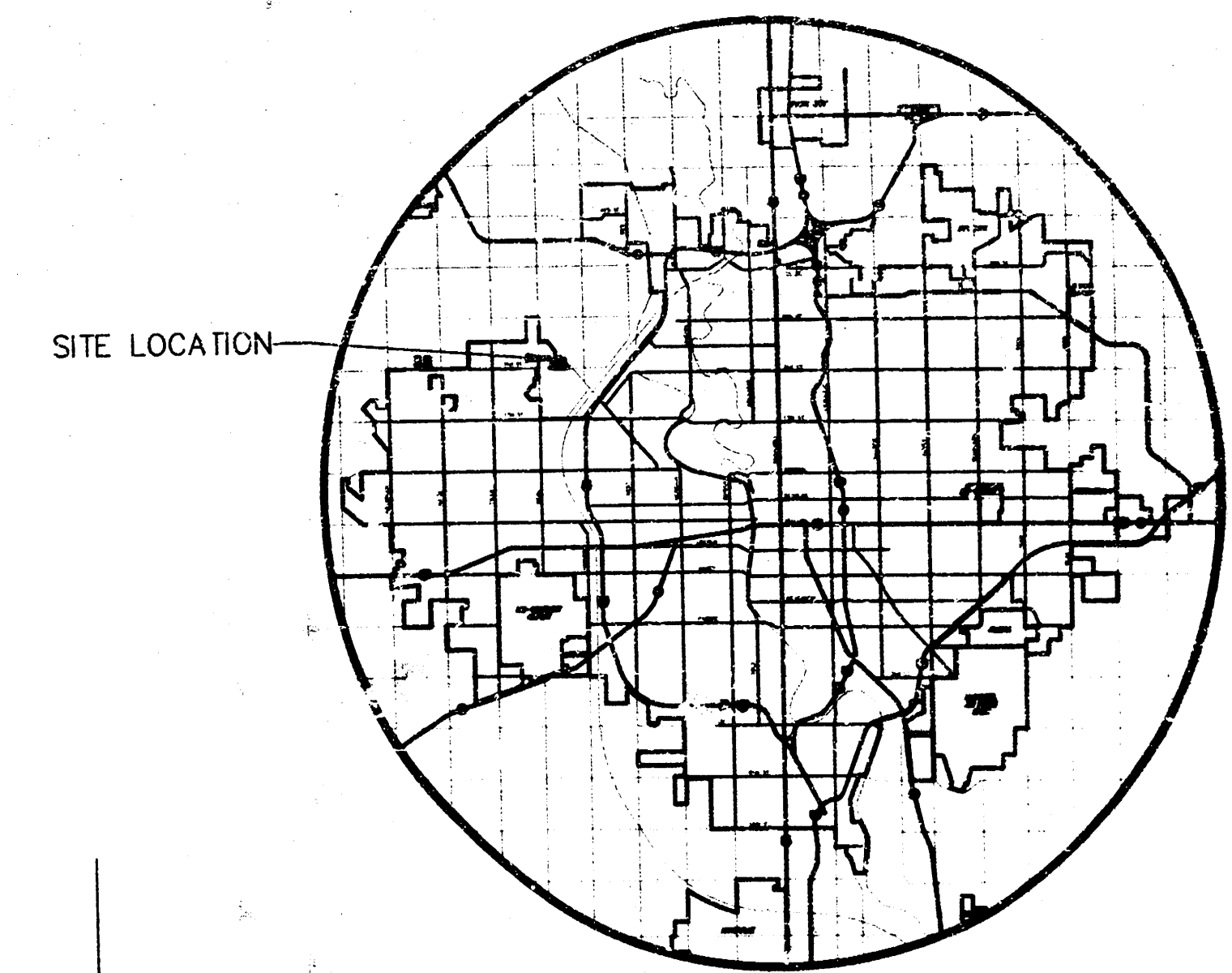


PAVING & WATER PLANS FOR PLAYERS SPORTS BAR

JUNE 1999

PROJECT NO. 472-83102 & 448-89405

CITY OF WICHITA, KANSAS
MICHAEL F. LINDEBAK, CITY ENGINEER
INDEX CODE 765579



LOCATION MAP

GENERAL NOTES

- UNLESS SHOWN OR STATED OTHERWISE ON THESE DRAWINGS, MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF WICHITA CONCRETE PAVEMENT AND ASPHALTIC CONCRETE PAVEMENT SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR WILL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.
- TRANSITION CURB FROM FULL HEIGHT COMBINATION CURB AND GUTTER TO ROLL TYPE COMBINATION CURB AND GUTTER IS TO BE PAID AS BID FOR LINEAL FEET MEDIAN COMBINED CURB AND GUTTER (ROLL).
- EXISTING UTILITIES AND THEIR LOCATIONS, AS SHOWN ON THE PLANS REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS UTILITY COMPANIES AND IS EITHER FROM COMPANY RECORD DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED.
- CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF FORTY-EIGHT (48) HOURS TO UTILITY COMPANIES PRIOR TO STARTING ANY EXCAVATION AS FOLLOWS:

KANSAS ONE-CALL 1-800-344-7233
OR 687-2470 (LOCAL WICHITA)

THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:

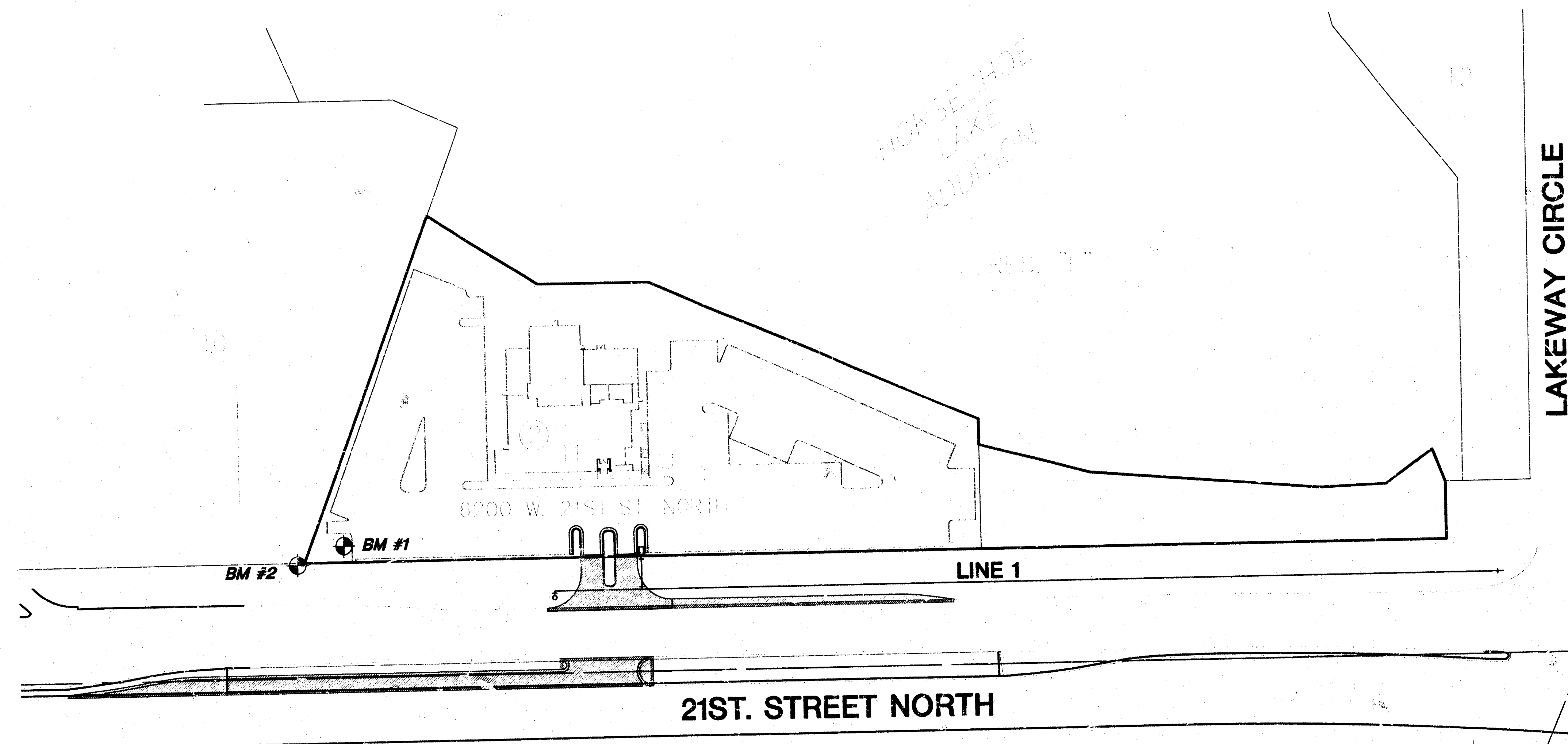
SOUTHWESTERN BELL TELEPHONE COMPANY 1-800-734-7590
CABLEVISION 263-2061
KG&E (GAS & ELECTRIC) 383-8600
CITY OF WICHITA WATER & SEWER MAINT. 268-4908
ARKLA GAS COMPANY 942-8350 OR 263-8161

- RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES AND EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE DISPOSED OF ON SITES TO BE PROVIDED BY THE CONTRACTOR. THESE SITES SHALL BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE AND SITE LOCATION. LOCATIONS THAT, IN THE OPINION OF THE ENGINEER, WILL LEAVE AN UNSIGHTLY APPEARANCE WILL NOT BE APPROVED. ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN WOULD REQUIRE A KANSAS STATE BOARD OF AGRICULTURE PERMIT. ANY MATERIAL DUMPED IN WATERS OF THE UNITED STATES OR WETLANDS IS SUBJECT TO U.S. CORPS OF ENGINEERS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS WOULD REQUIRE ADDITIONAL ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.

- A SAW CUT OF AT LEAST ONE-HALF THE DEPTH OF THE EXISTING SURFACE COURSES OR ONE-FOURTH THE DEPTH OF THE EXISTING TOTAL PAVEMENT THICKNESS SHALL BE PROVIDED AT LOCATIONS WHERE PROPOSED CONSTRUCTION ABUTS AN EXISTING SURFACE OR PAVEMENT FOR WHICH PARTIAL REMOVAL OF THAT SURFACE OR PAVEMENT IS REQUIRED. SAW JOINT TO FACILITATE REMOVAL WITHIN THREE (3) FEET OF EXISTING JOINTS WILL NOT BE PERMITTED AND FOR SUCH INSTANCES THE LIMITS OF REMOVAL SHALL EXTEND TO THE EXISTING JOINT. SUCH SAW CUTS WILL NOT BE PAID FOR DIRECTLY AND THIS COST SHALL BE CONSIDERED AS SUBSIDIARY TO VARIOUS SURFACING ITEMS INVOLVED.

- COST OF REMOVAL OF MISCELLANEOUS PAVEMENTS SHALL BE SUBSIDIARY TO SITE CLEARING AND RESTORATION.

- CONTRACTOR SHALL RESEED AND MULCH ALL DISTURBED AREAS. COST SHALL BE BID AS PROJECT SEEDING.

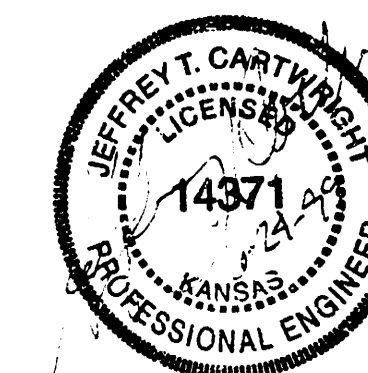


BENCHMARKS

- BM #1 "+" CUT ON N RIM SSMH ±30' ENE
OF SW CORNER LOT 11, BLK. 2
ELEV.=132.735
- BM #2 RR SPIKE IN N. FACE PP @ SW
CORNER LOT 11, BLK. 2, HORSESHOE
LAKE ADDITION
ELEV.=133.185

SE COR. SE 1/4
SEC 3, T27S, R1W
OF THE 6TH P.M.

EARTHWORK SUMMARY	
EXCAVATION	460 C.Y.
LOOSE FILL	0 C.Y.
COMPACTED FILL	60 C.Y.



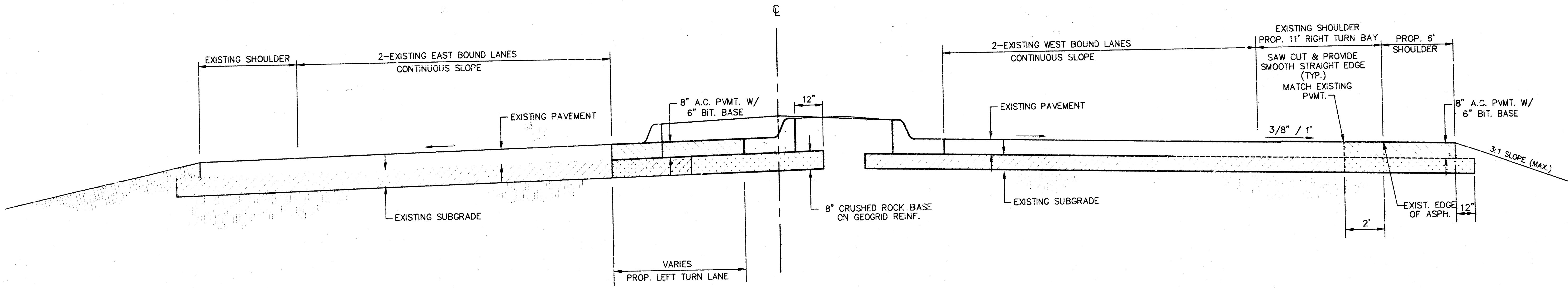
MID-KANSAS ENGINEERING
CONSULTANTS, INC.
411 N. WEBB ROAD
WICHITA, KS. 67206
316-684-9600

PAVING & WATER PLANS FOR
PLAYERS SPORTS BAR
PROJECT NAME

TITLE SHEET
SHEET TITLE

JTC DESIGN BY:	DAC DRAWN BY:	JTC CHECKED BY:
JUNE 1999 DATE	39027 JOB NO.	1 / 15 SHEET / OF

21ST STREET NORTH TYPICAL SECTION WITH WIDENING



CRUSHED ROCK BASE GRADATION REQUIREMENTS

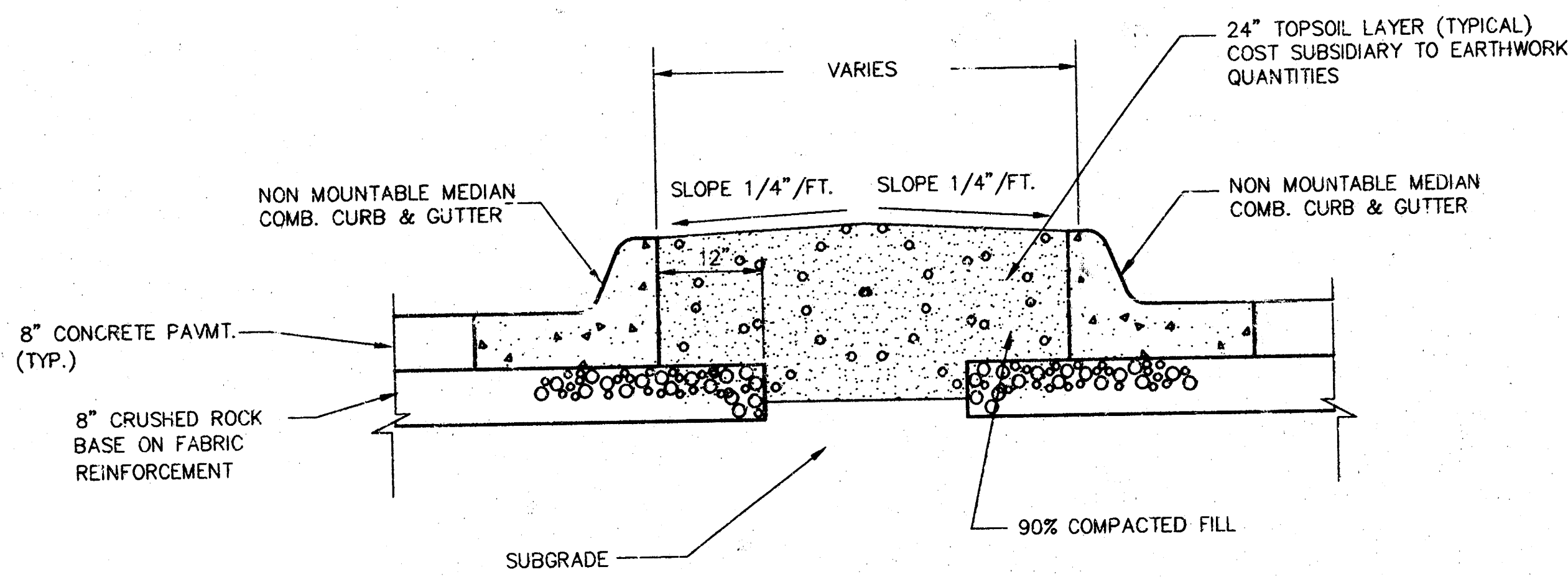
PERCENT OF AGGREGATE RETAINED	
2-1/2"	0
3/4"	20-60
#4	50-80
#40	80-94
#200	90-98

ROCK QUALITY SHALL CONFORM TO THE REQUIREMENTS SPECIFIED BY THE KDOT 1990 EDITION STANDARD SPECIFICATION SUBSECTION 1102 FOR DURABILITY CLASS 1.

GEOGRID BASE REINFORCEMENT SHALL BE BX1100 GEOGRID AS MANUFACTURED BY TENSAR CORPORATION OR APPROVED EQUAL. FABRIC BASE REINFORCEMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. ROCK QUALITY SHALL BE THE SAME AS FOR CONCRETE MIXES.

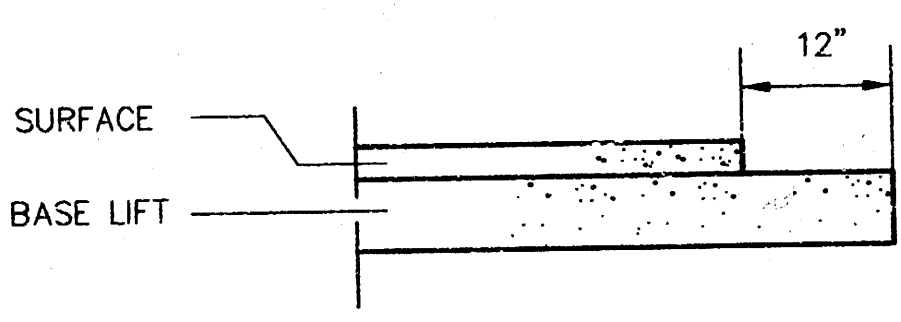
GENERAL NOTES

- 1) ROCK BASE IS TO BE COMPACTED AND SMOOTHED WITH A STEEL FACED ROLLER PRIOR TO PLACEMENT OF ASPHALT. TACK COAT WILL NOT BE APPLIED TO ROCK BASE.
- 2) A TACK COAT OF EMULSIFIED ASPHALT (SC-1H OR CSS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE OF 0.05 GALLONS PER SQUARE YARD BETWEEN EACH LIFT OF ASPHALTIC MATERIAL.
- 3) BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC CONTROLS FOR LINE AND GRADE.
- 4) CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF ONE (1) FOOT FROM JOINTS IN PRECEDING LIFTS AND PLACED SO THAT A JOINT WILL BE CONSTRUCTED ON THE CENTERLINE OF THE TOP LIFT.

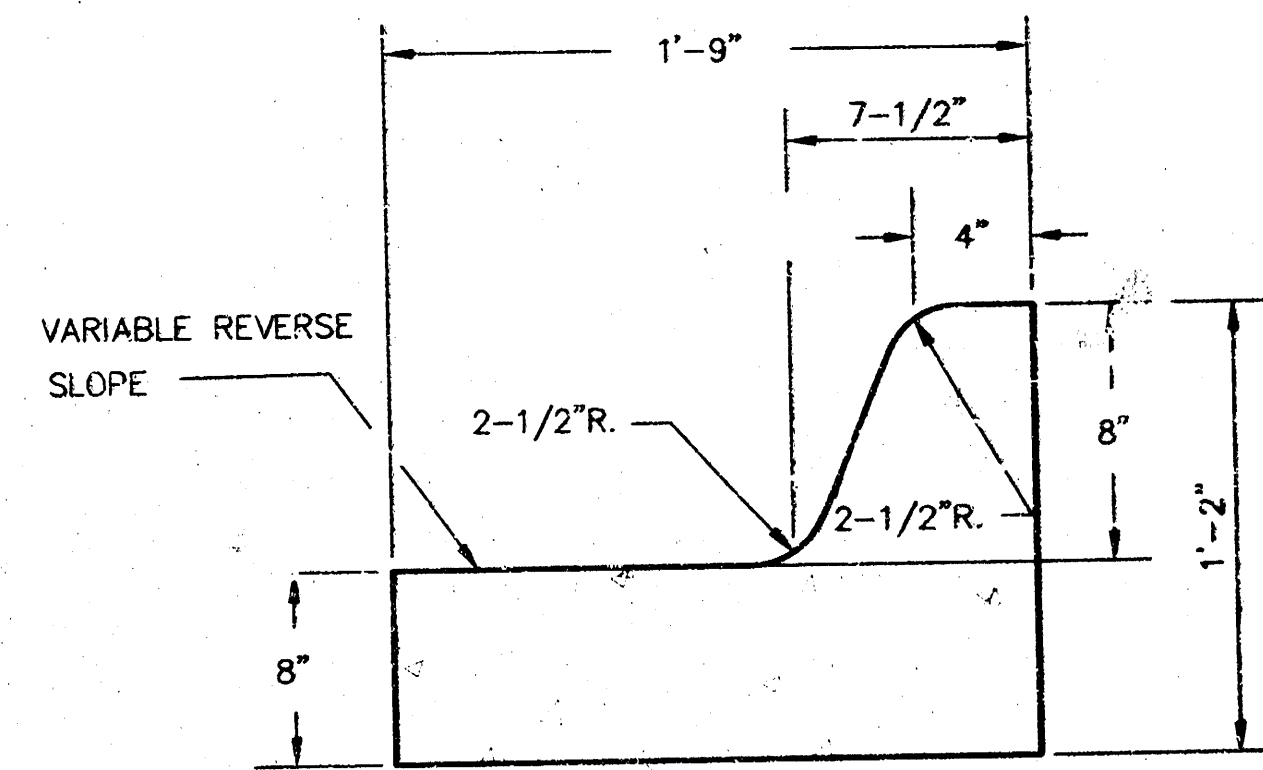


MEDIAN DETAIL
SCALE: NONE

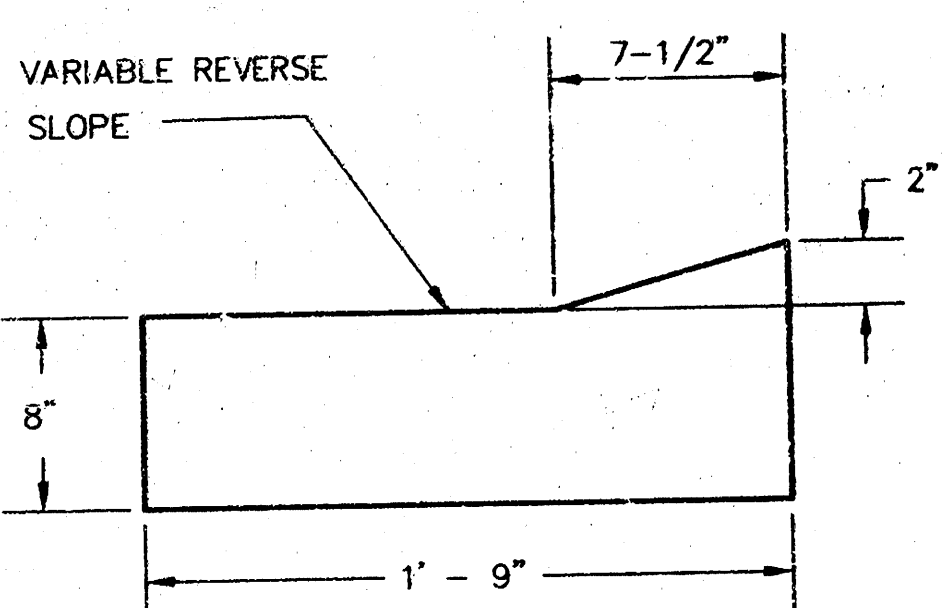
TRANSVERSE CONSTRUCTION JOINTS



TRANSVERSE CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN FLEXIBLE BASE PAVEMENTS AT LOCATIONS WHERE PAVEMENT JOINS EXISTING FLEXIBLE BASE PAVEMENT AS SHOWN BY THE DETAIL. ALL COSTS ASSOCIATED WITH THE CONSTRUCTION OF THE TRANSVERSE JOINT SHALL BE INCLUDED IN THE BID PRICE FOR SQUARE YARDS 5\"/>

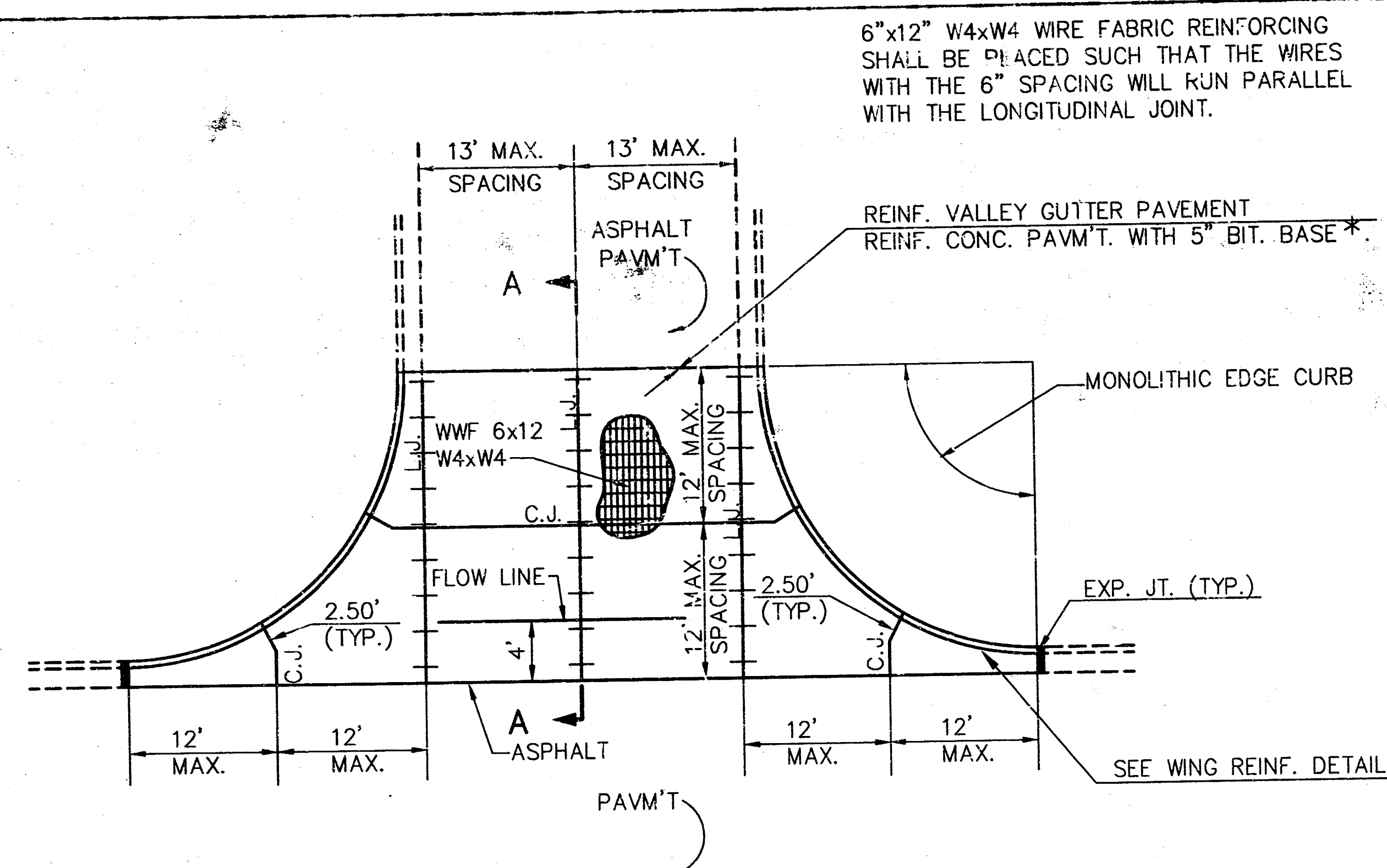


NON-MOUNTABLE MEDIAN
COMBINED CURB & GUTTER (8")
SCALE: NONE

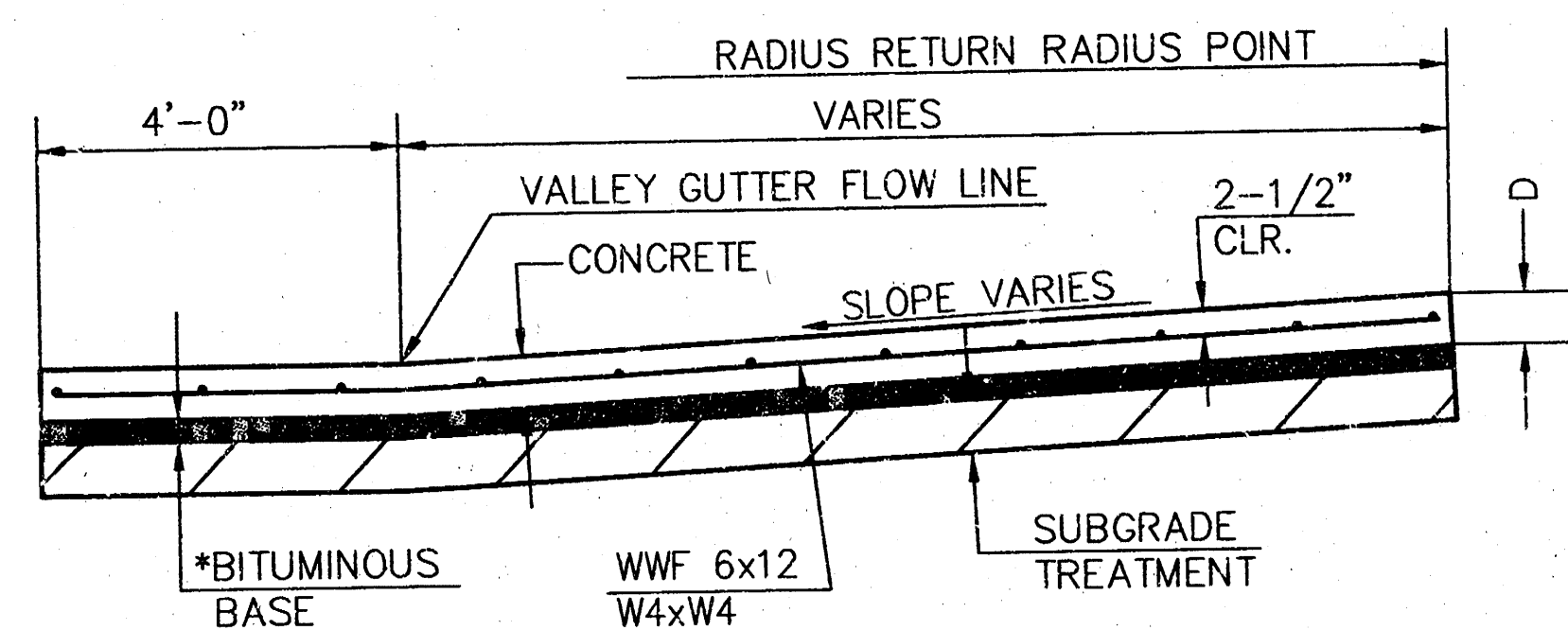


MOUNTABLE MEDIAN
COMBINED CURB & GUTTER (ROLL)
SCALE: NONE

21st ST. N. WIDENING-8" ASPHALTIC CONCRETE PAVEMENT WITH 8" CRUSHED ROCK BASE ON FABRIC REINFORCEMENT.
CITY OF WICHITA, KANSAS

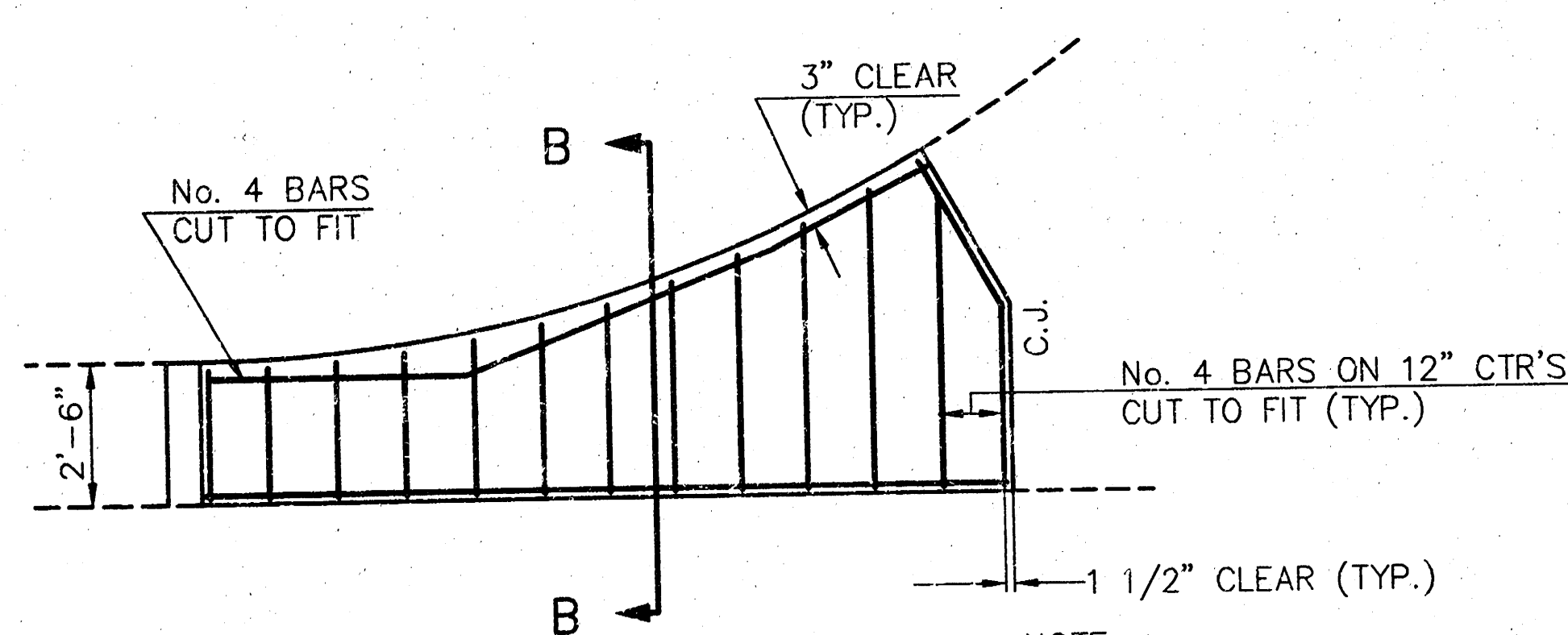


PLAN
REINFORCED VALLEY GUTTER
SCALE: NONE

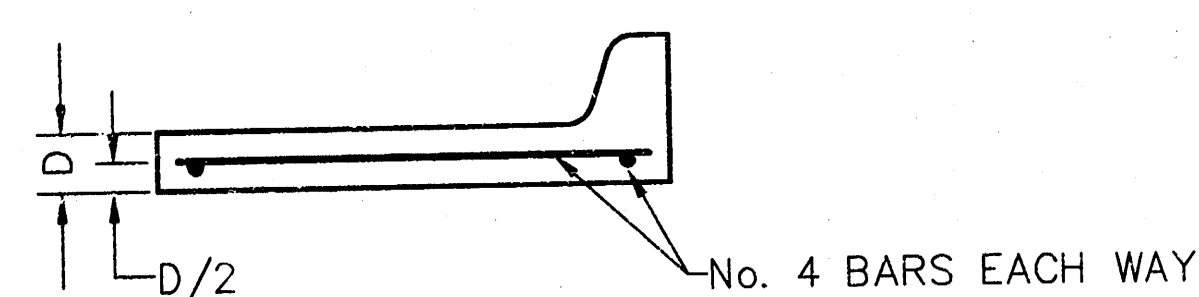


SECTION A-A
SCALE: NONE

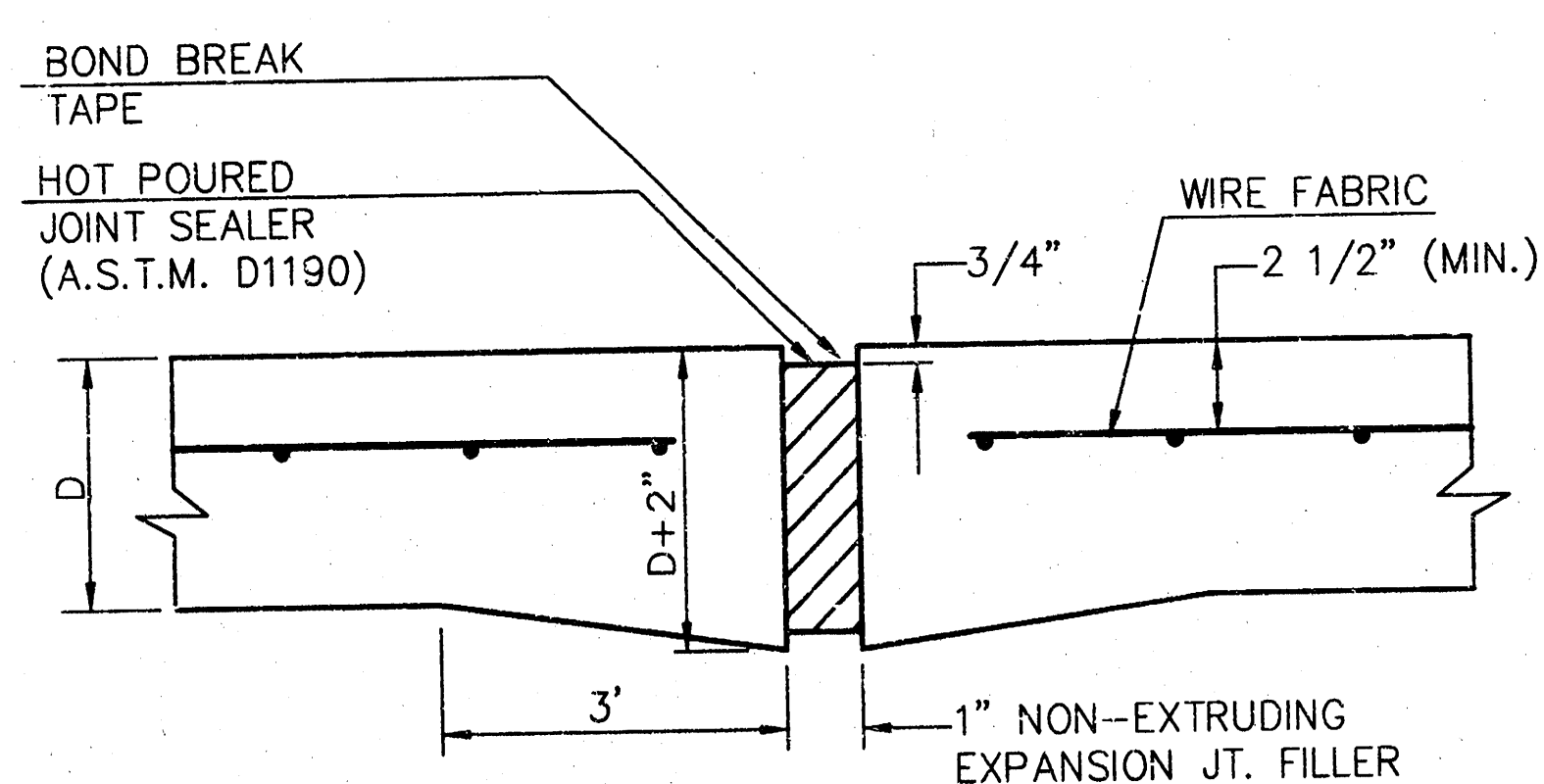
*NOT TO BE USED WITH CRUSHED ROCK BASE



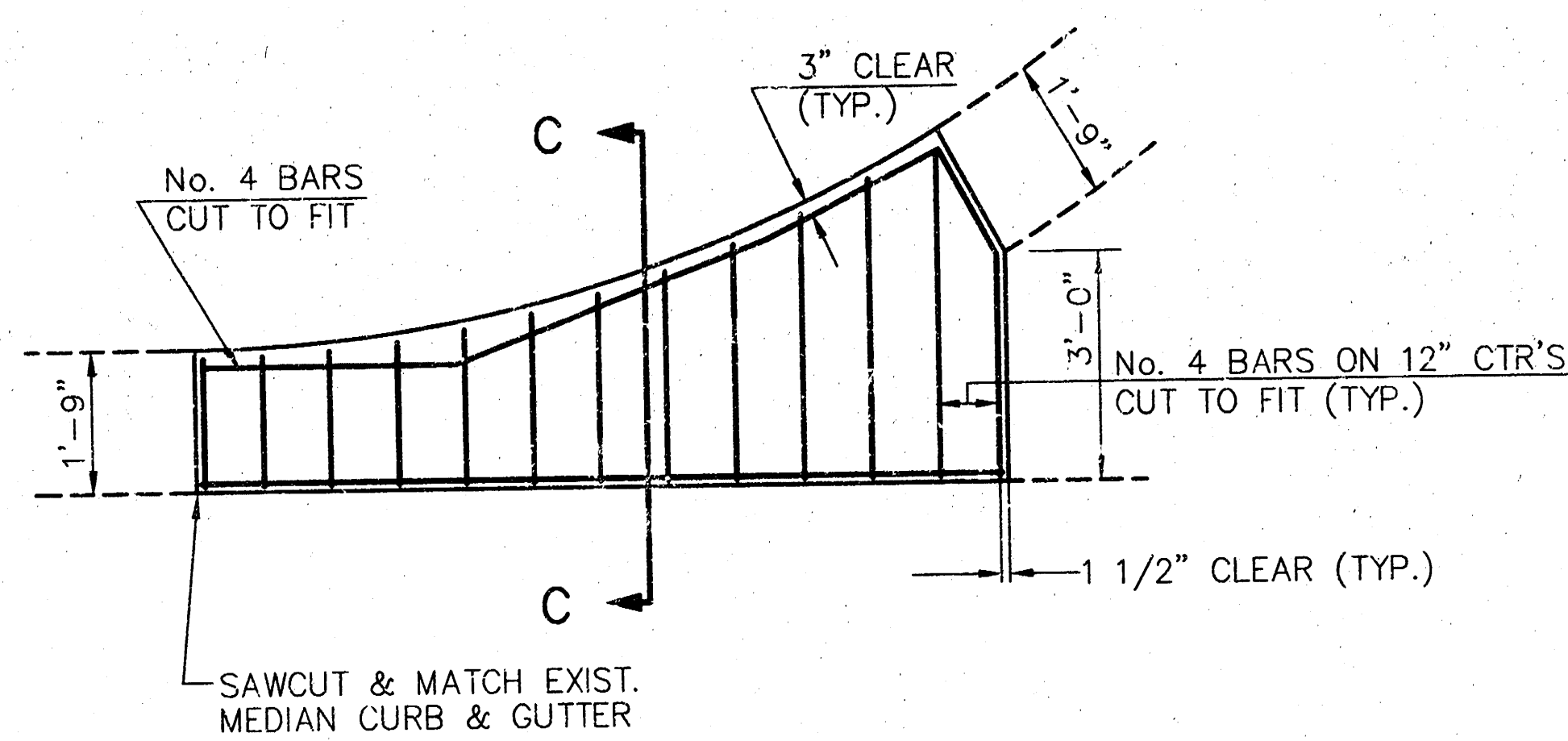
WING REINFORCING DETAIL
SCALE: NONE



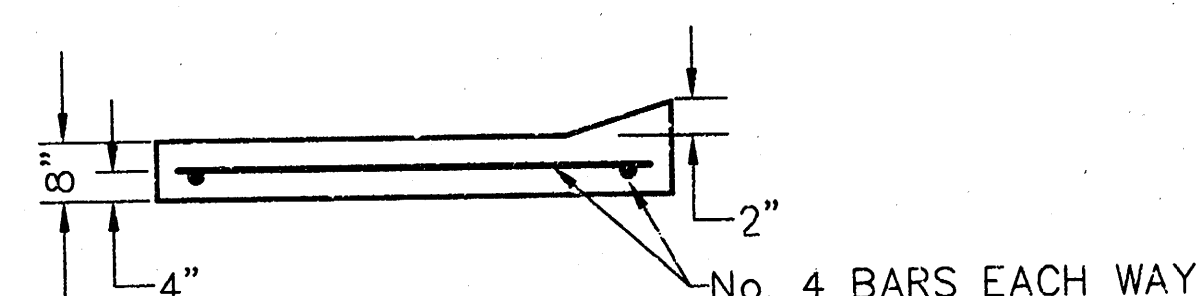
SECTION B-B
SCALE: NONE



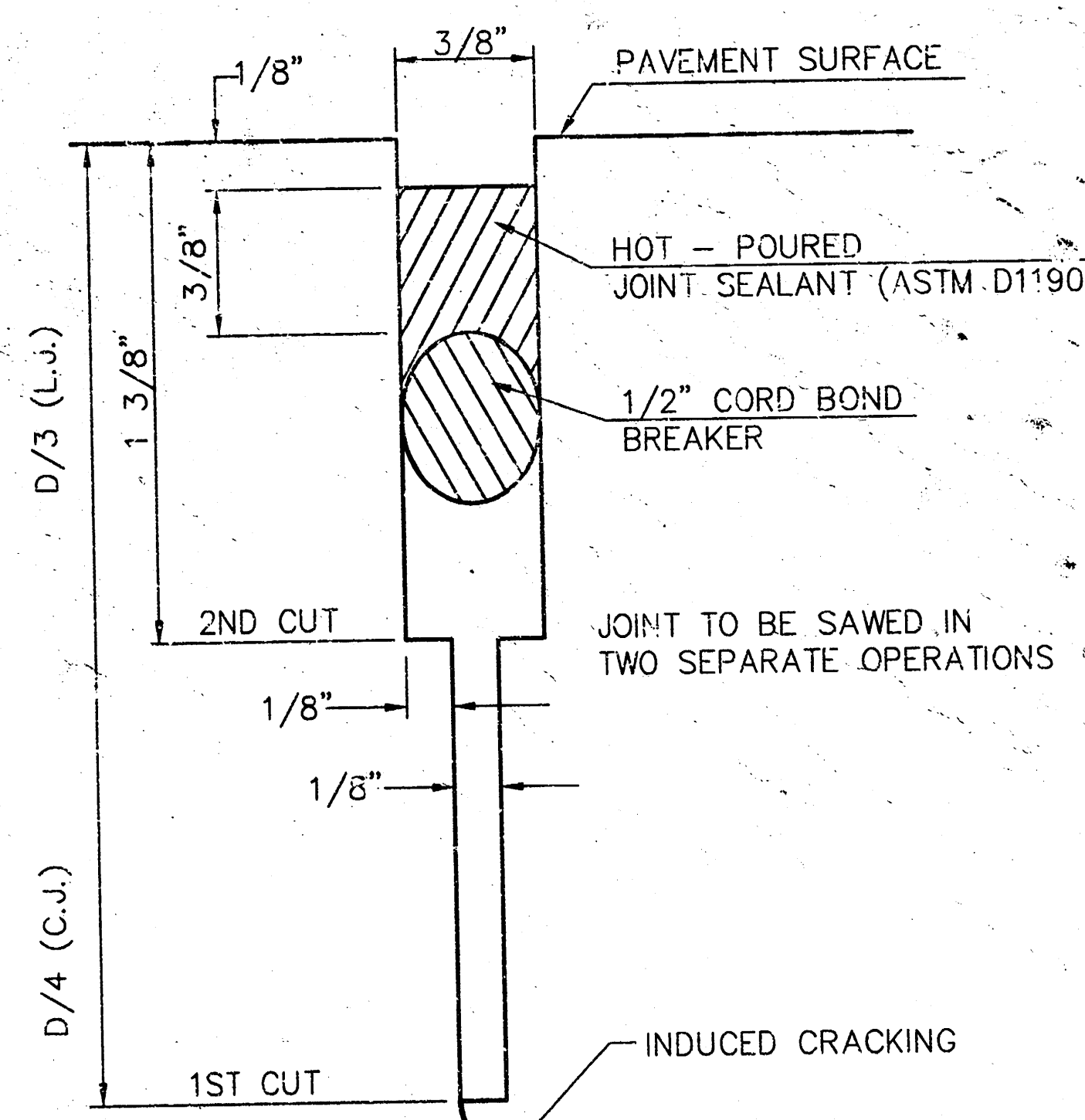
EXPANSION JOINT
SCALE: NONE



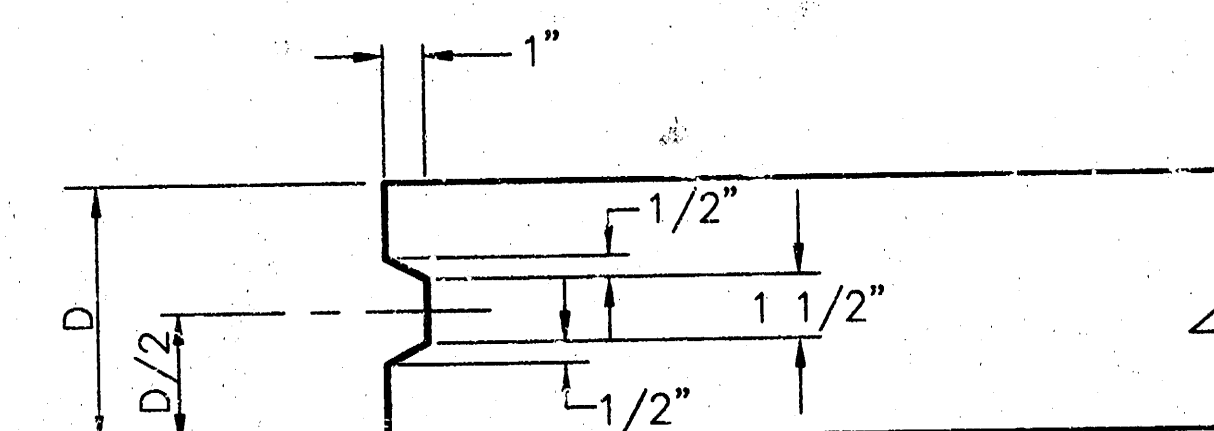
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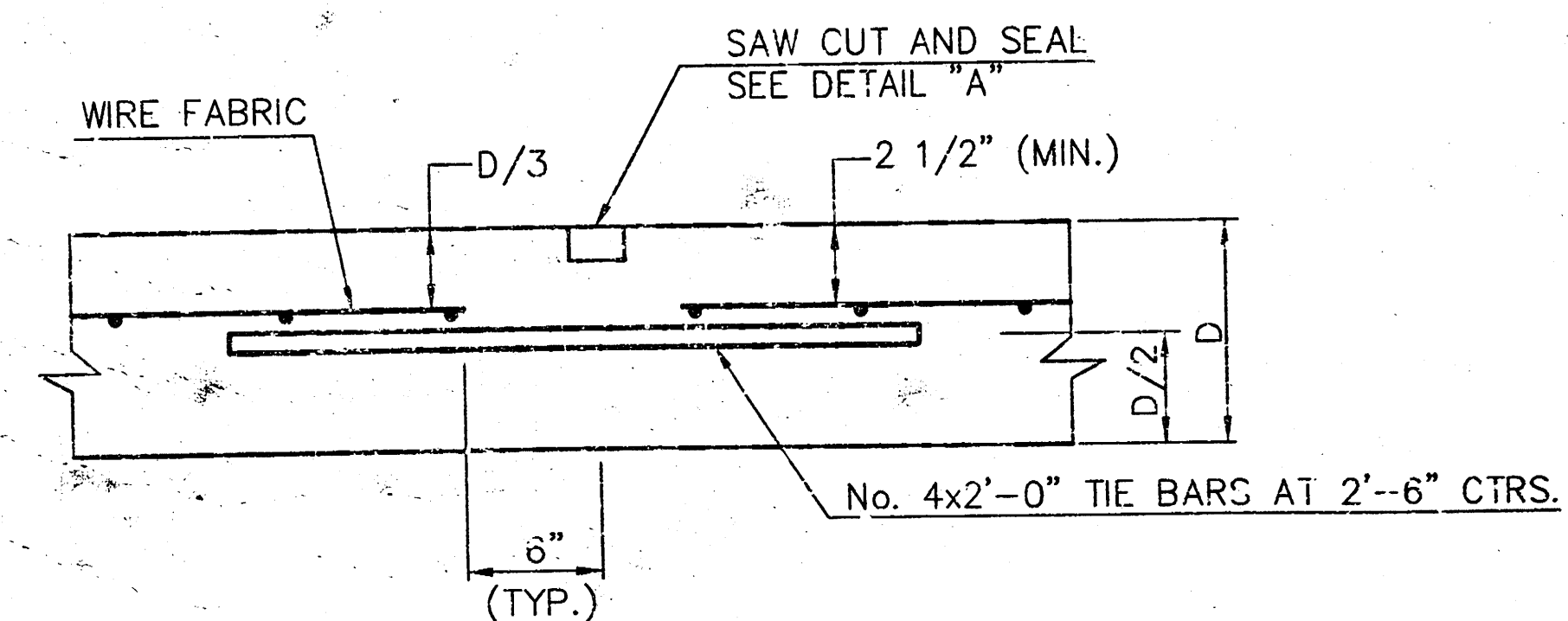
SECTION C-C
SCALE: NONE



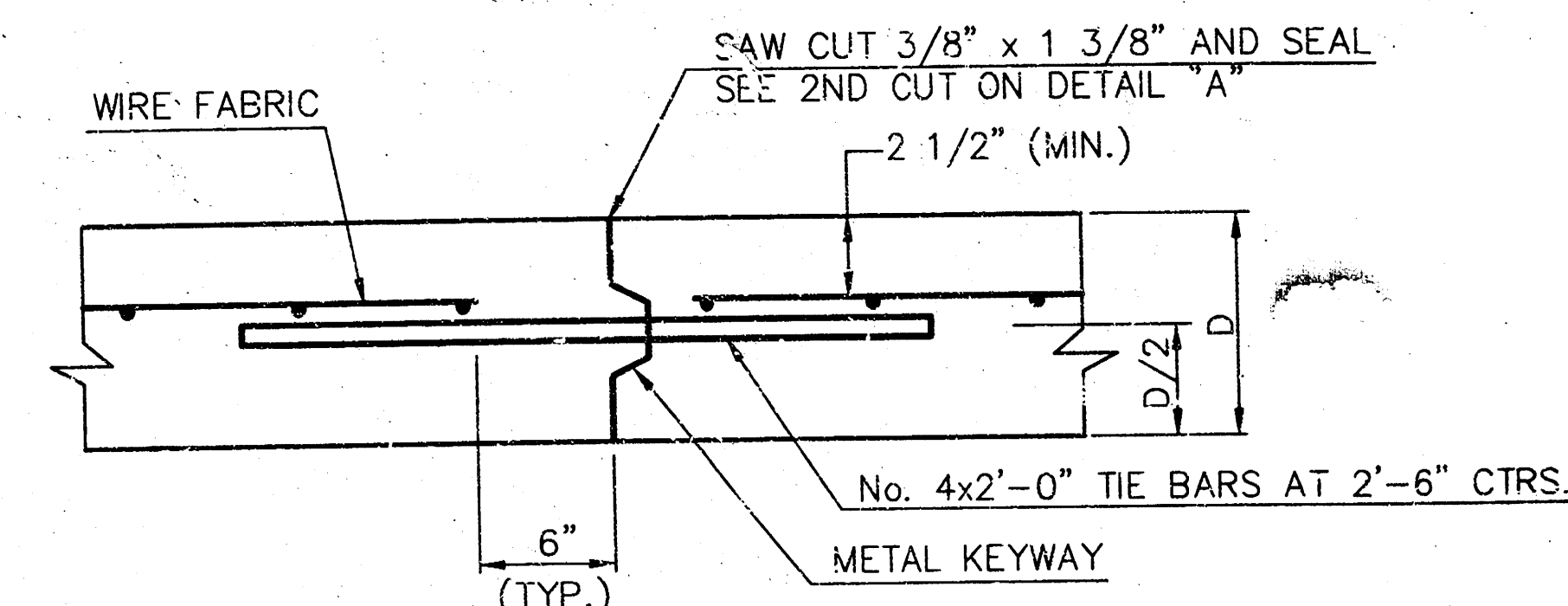
DETAIL \"/>



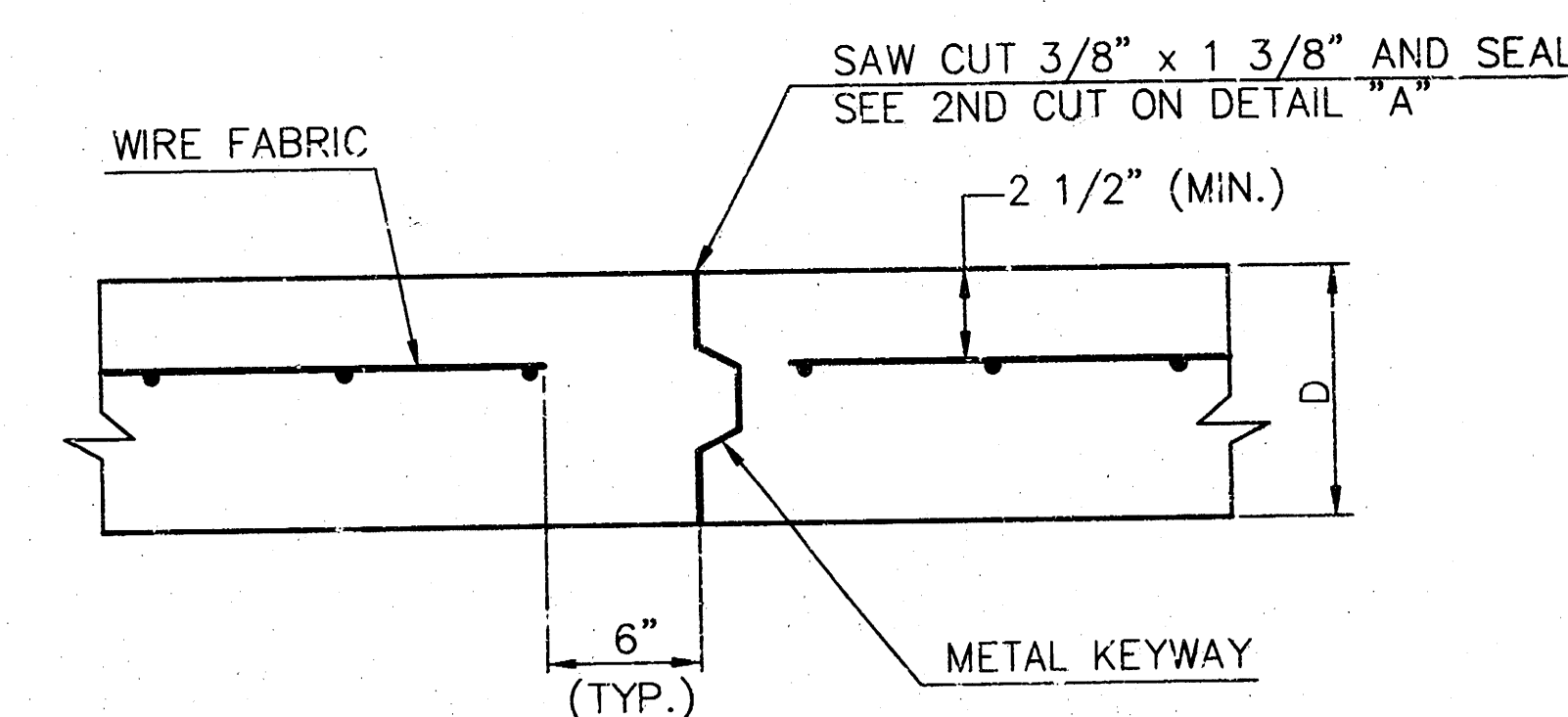
KEYWAY DETAIL
SCALE: NONE



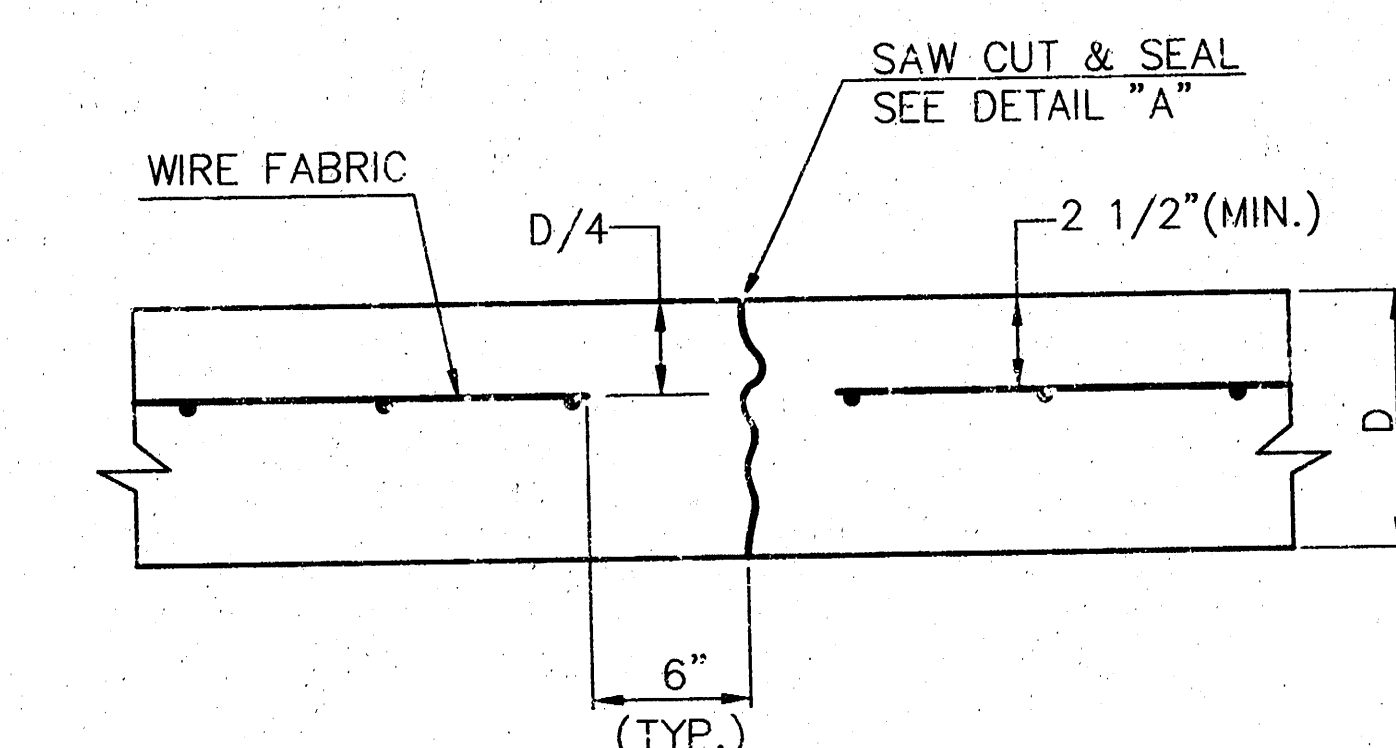
LONGITUDINAL JOINT DETAIL (L.J.)
SCALE: NONE



OPTIONAL LONGITUDINAL CONSTRUCTION JOINT (L.J.)
(Alternate L.J.)
SCALE: NONE



OPTIONAL CONTRACTION CONSTRUCTION JOINT (C.J.)
(Alternate C.J.)
SCALE: NONE



CONTRACTION JOINT DETAIL (C.J.)
SCALE: NONE

LEGEND

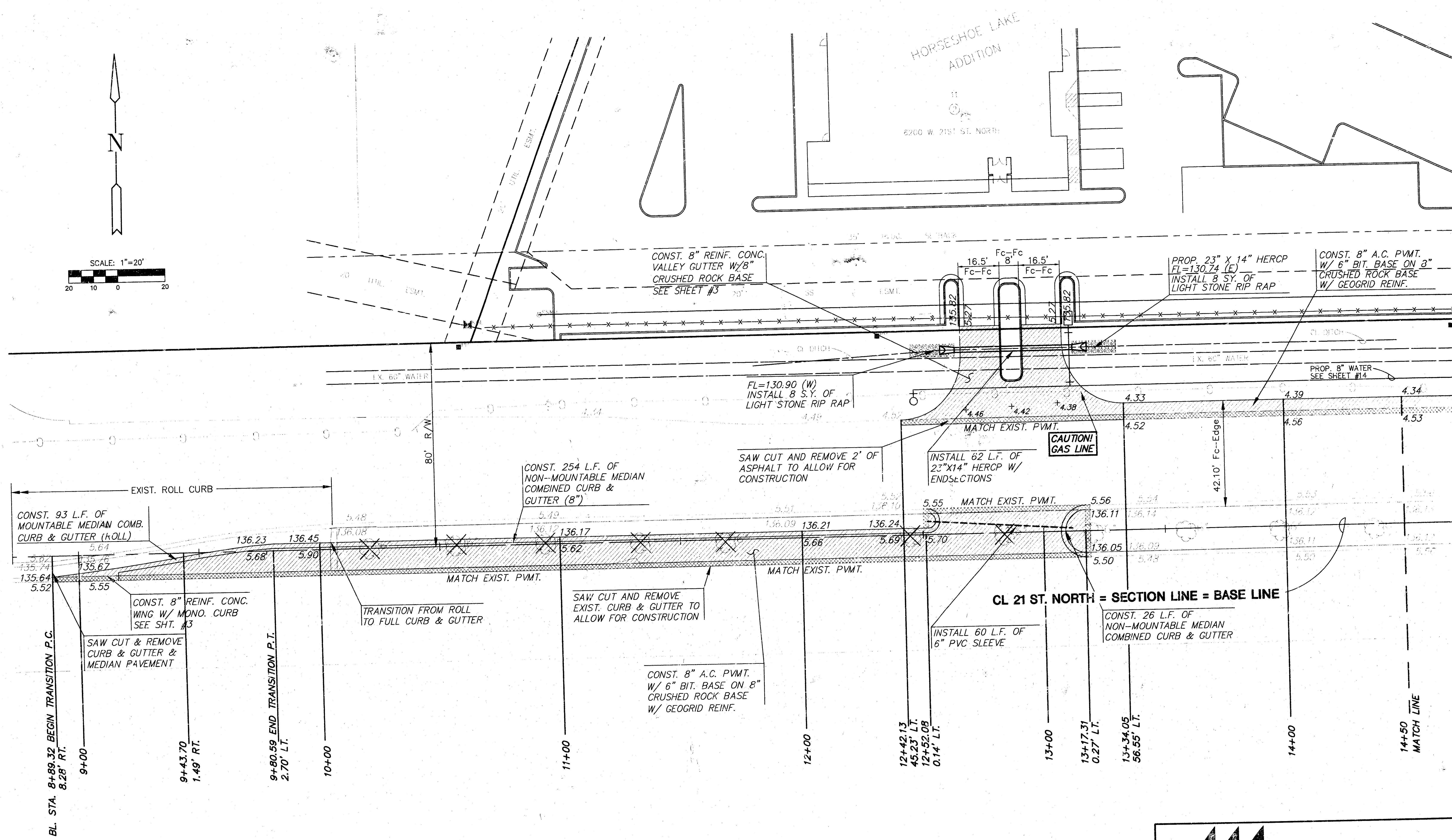
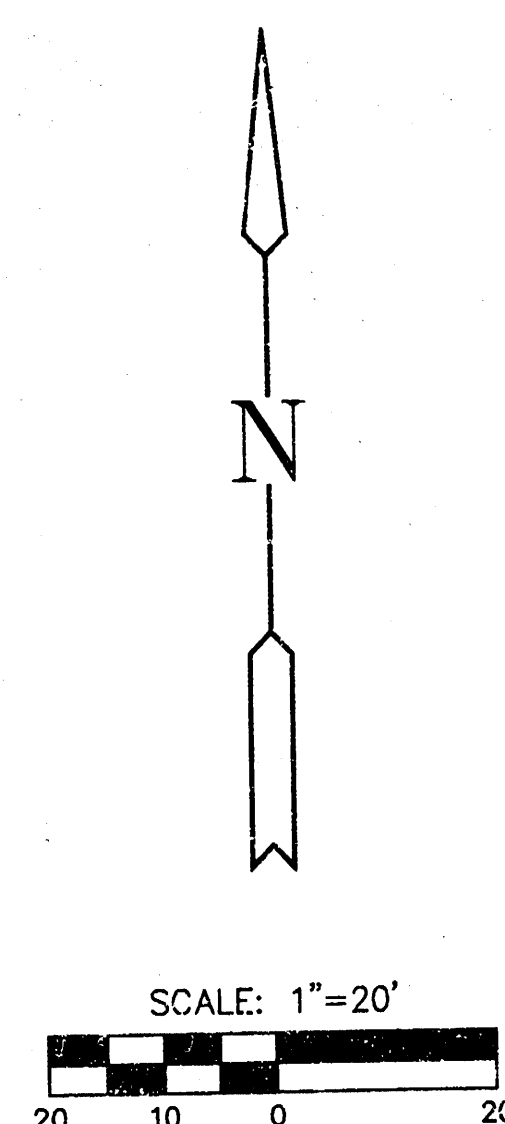
C.J. IDENTIFIES CONTRACTION JOINT
L.J. IDENTIFIES LONGITUDINAL JOINT

VALLEY GUTTER & MISC.
DETAILS

PLAYERS SPORTS BAR

PROJECT NUMBER
99027

3 / 15
SHEET/27



NOTE:
X — INDICATES TREES TO BE REMOVED AND TRANSPLANTED TO A SITE TO BE PROVIDED BY SEDGWICK COUNTY PARKS DEPARTMENT. CONTACT WARREN DUSCHER 942-3127

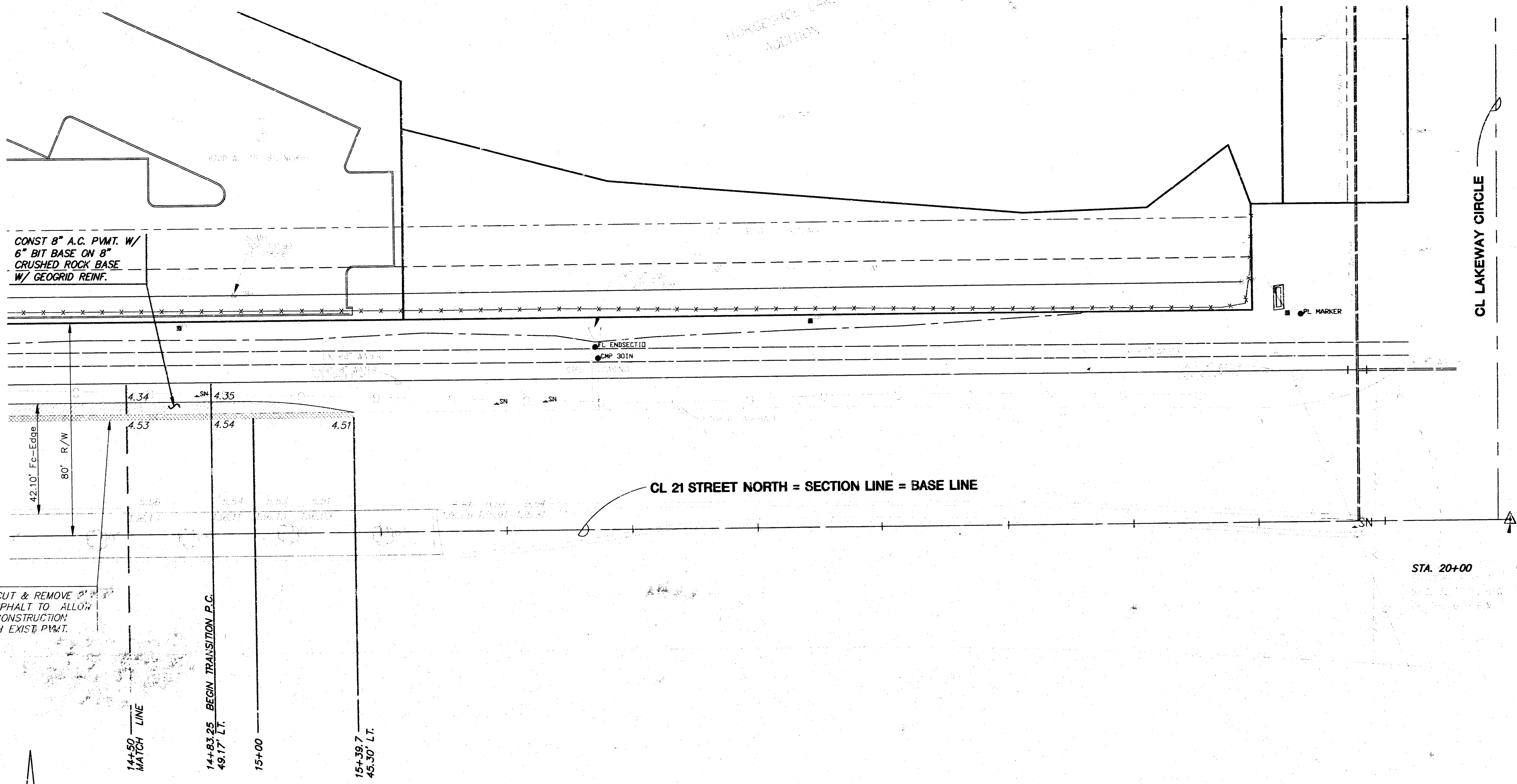


MID-KANSAS ENGINEERING
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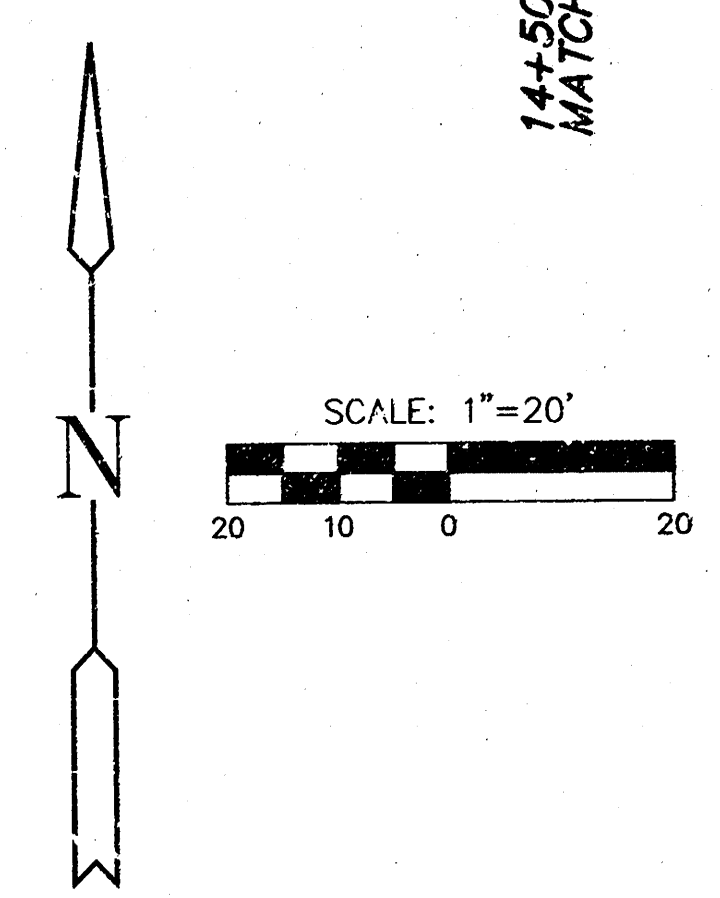
PLAYERS SPORTS BAR
PROJECT NAME

PAVING PLANS
SHEET TITLE

JTC DESIGN BY:	DAC DRAWN BY:	JTC CHECKED BY:
JUNE 1999 DATE	99027 JOB NO.	4 / 15 SHEET/OF



SAW CUT & REMOVE 3" OF ASPHALT TO ALLOW FOR CONSTRUCTION MATCH EXIST P.V.M.T.



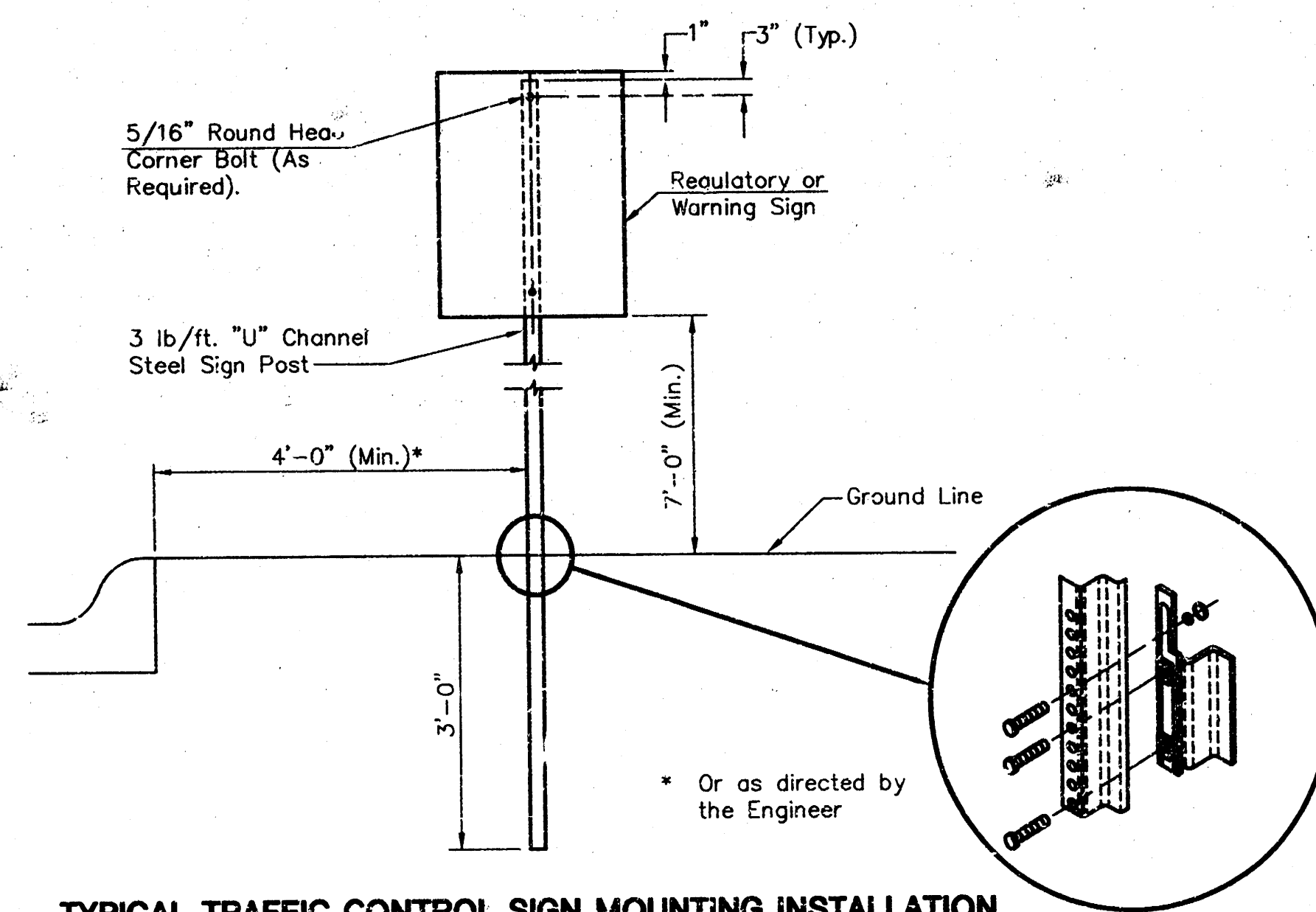
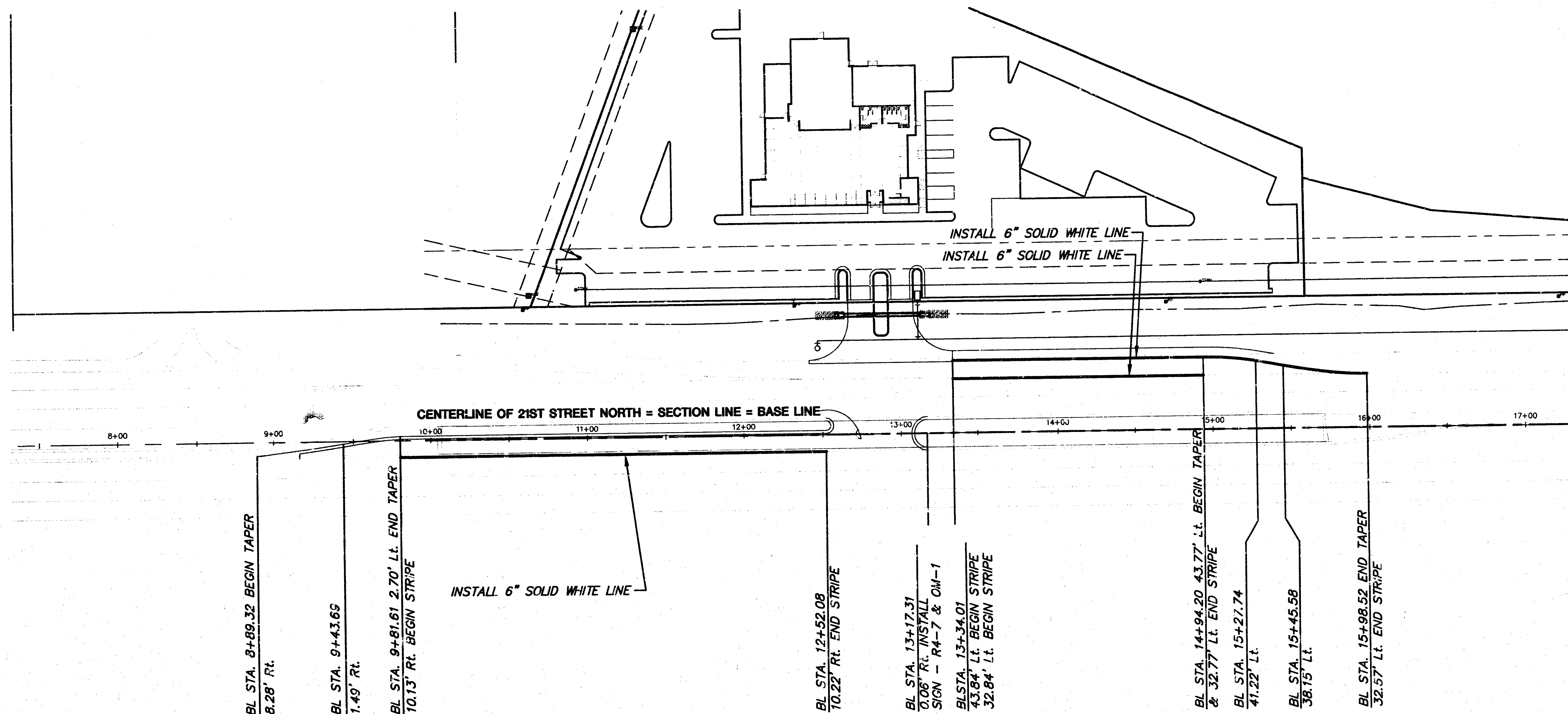
PLAYERS SPORTS BAR
PROJECT NAME

PAVING PLANS
SHEET TITLE

JTC DESIGN BY:	DAC DRAWN BY:	JTC CHECKED BY:
JUNE 1999 DATE	99027 JOB NO.	5 / 15 SHEET OF

MID-KANSAS ENGINEERING CONSULTANTS, INC.
 411 N. WEBB ROAD
 WICHITA, KS. 67206
 316-664-9500

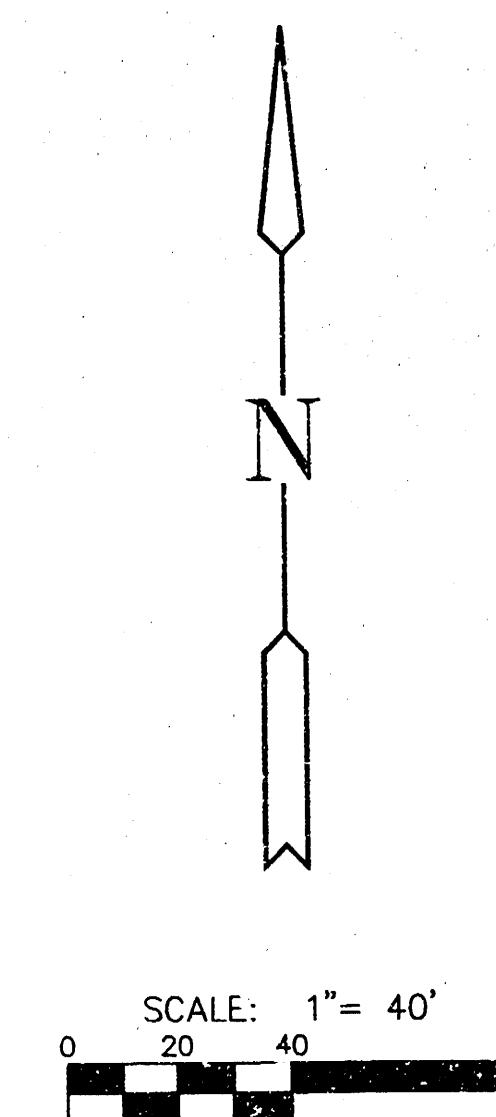
BILL OF MATERIALS		
ITEM	TOTAL	UNITS
COLD PLASTIC MARKING	700.0	LIN. FT.
SIGN		
R4-7 KEEP RIGHT	1	EACH
OM-1 OBJECT MARKER	1	EACH
FOR INFORMATION ONLY		



TYPICAL TRAFFIC CONTROL SIGN MOUNTING INSTALLATION
CURB AND GUTTER SECTION

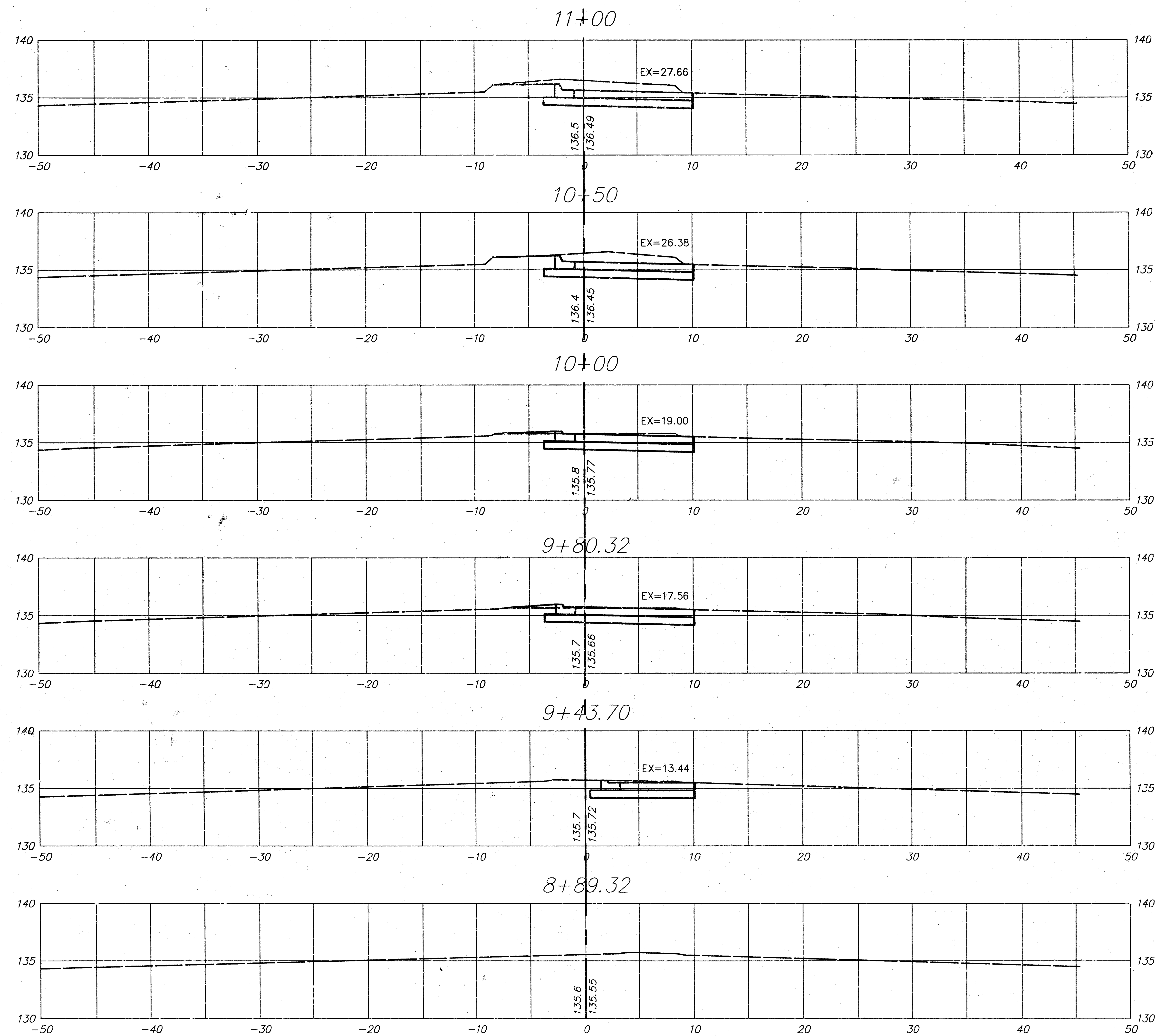
GENERAL NOTES - SIGNING

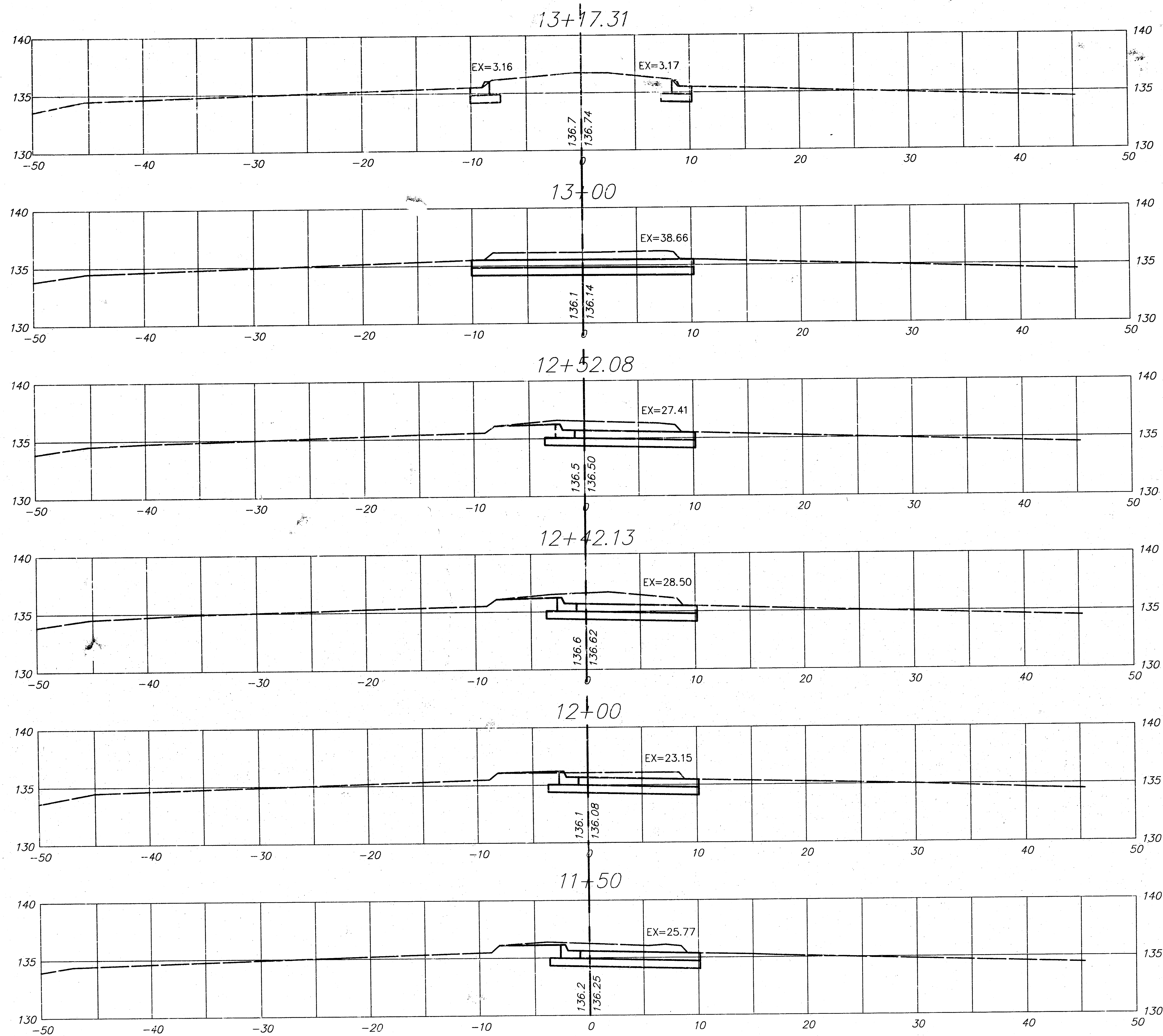
- REFERENCES BELOW TO "STANDARD SPECIFICATIONS" DENOTE "STANDARD SPECIFICATION FOR STATE ROAD AND BRIDGE CONSTRUCTION, EDITION 1990" BY THE KANSAS DEPARTMENT OF TRANSPORTATION.
- POST ANCHORS. POSTS SHALL BE ANCHORED WITH A YIELDING BASE POST SUPPORT AS DETAILED.
 - POSTS FOR TRAFFIC CONTROL SIGNS. POSTS SHALL CONFORM TO THE REQUIREMENTS OF SUBSECTION 1620 OF THE STANDARD SPECIFICATIONS EXCEPT THAT ALL POSTS SHALL WEIGH 3 LBS./FOOT MINIMUM.
 - SIGN BLANKS FOR TRAFFIC CONTROL SIGNS. SIGN BLANKS SHALL BE FABRICATED FROM 0.080" ALUMINUM ALLOY #663-T6 CONFORMING TO THE REQUIREMENTS OF SUBSECTION 1626 OF THE STANDARD SPECIFICATIONS.
 - FASTENERS. ALL STEEL FASTENERS FOR TRAFFIC CONTROL SIGNS SHALL BE GALVANIZED AND SHALL CONFORM TO THE REQUIREMENTS OF SUBSECTION 1614 OF THE STANDARD SPECIFICATIONS.
 - REFLECTIVE SHEETING. REFLECTIVE SHEETING SHALL BE TYPE II-HIGH PERFORMANCE CLASS HA IN ACCORDANCE WITH SUBSECTION 2201 OF THE STANDARD SPECIFICATIONS.
 - PROCESS INK. ALL PROCESS INK SHALL CONFORM TO THE REQUIREMENTS OF SUBSECTION 2202 OF THE STANDARD SPECIFICATIONS.
 - DETAILS. REGULATORY AND WARNING SIGNS SHALL CONFORM TO THE DETAILS IN "STANDARD HIGHWAY SIGNS", FHWA, 1979.
 - NEW TRAFFIC CONTROL AND STREET NAME SIGNS. NEW TRAFFIC CONTROL AND STREET NAME SIGNS SHALL BE MEASURED AND PAID FOR AT THE LUMP SUM PRICE FOR SIGNING. THE PAYMENT AS SET FORTH ABOVE SHALL BE CONSIDERED FULL COMPENSATION FOR ALL EXCAVATION, BACKFILLING, POSTS, ANCHORS, FASTENERS, MATERIALS, LABOR, TOOLS AND INCIDENTALS NECESSARY TO COMPLETE THIS WORK.

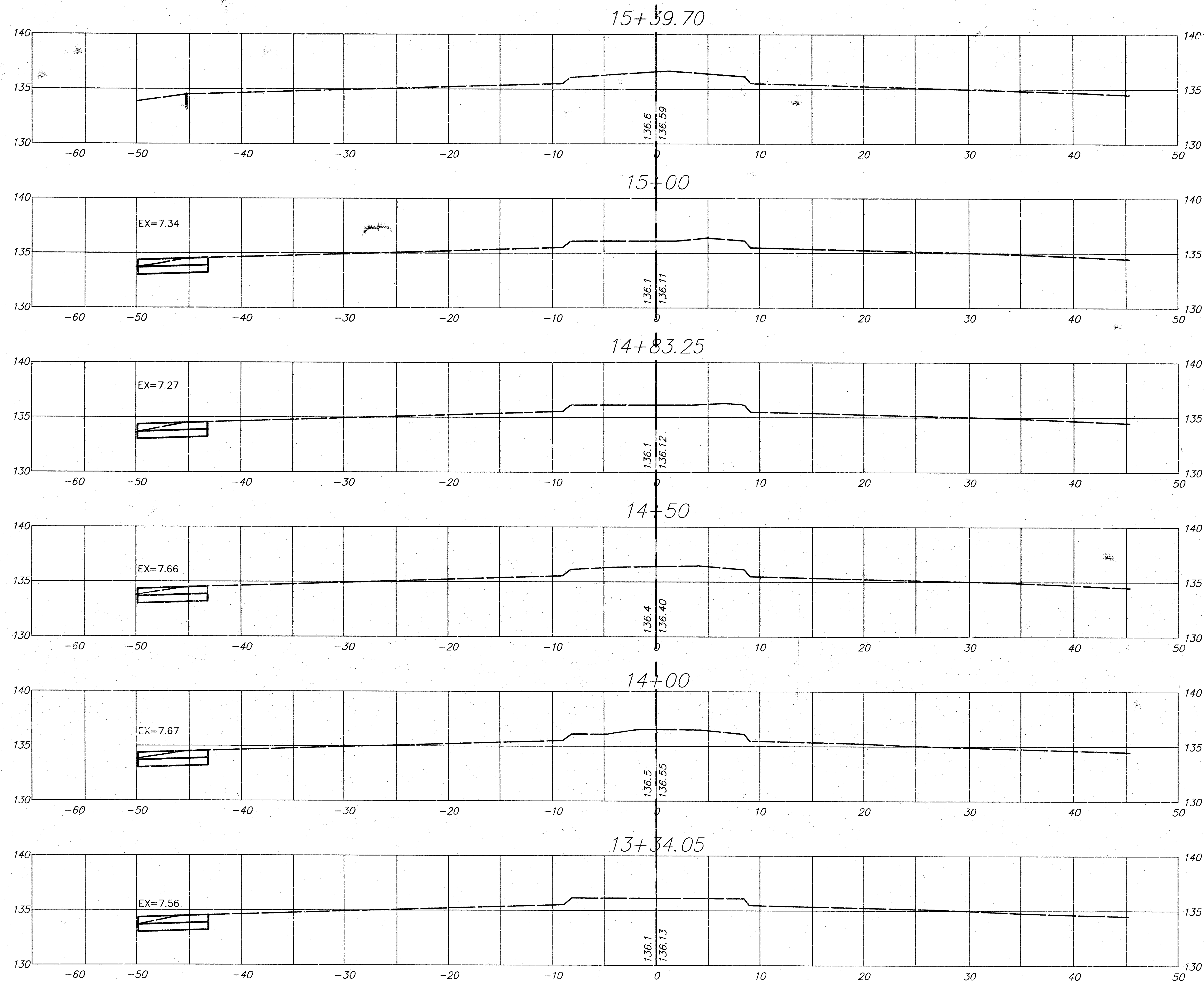


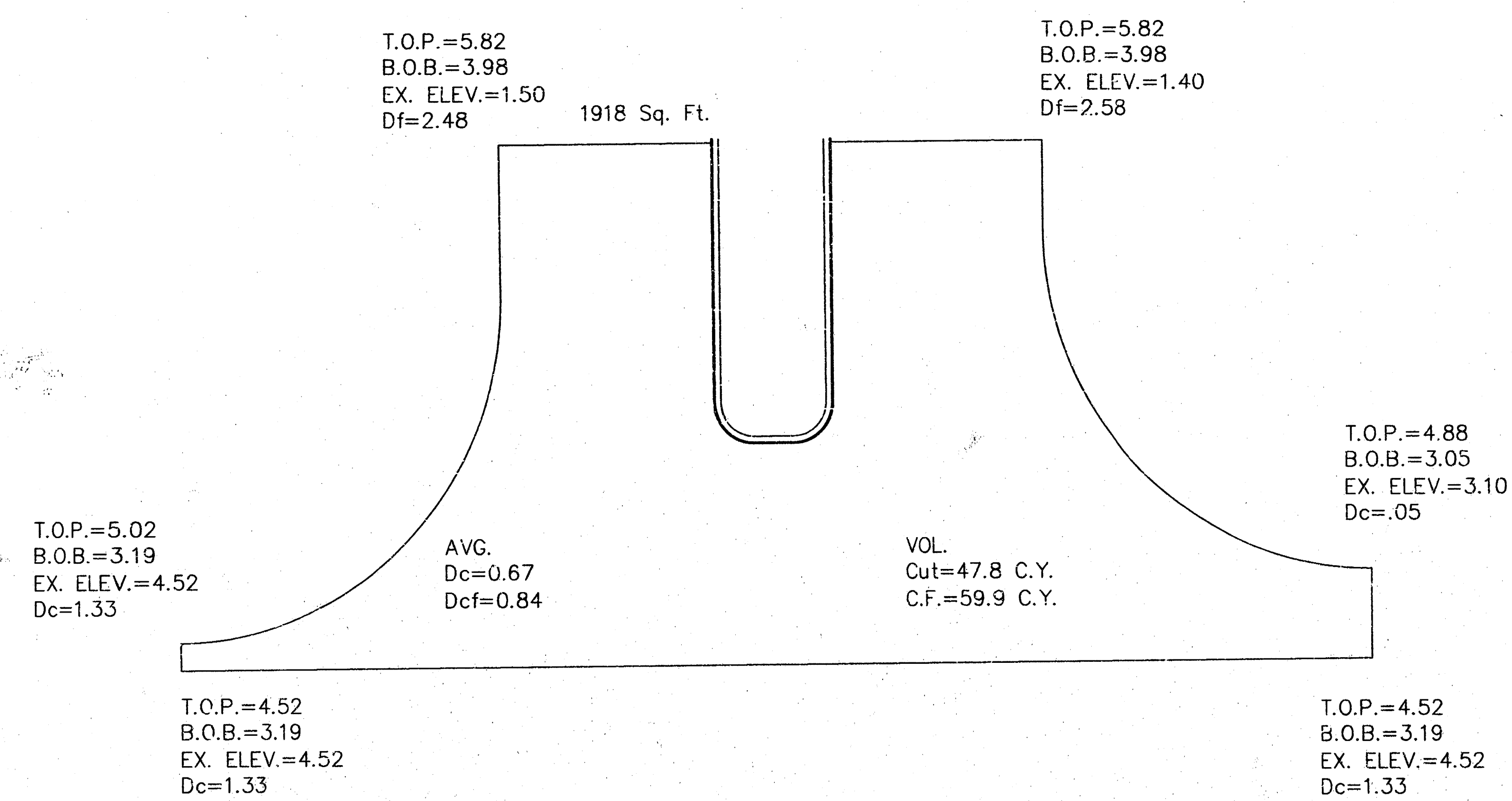
	PLAYERS SPORTS BAR		
	PROJECT NAME		
	PAVEMENT MARKING & SIGNING DETAILS		
	SHEET TITLE		
MID-KANSAS ENGINEERING CONSULTANTS, INC. 411 N. WEBB ROAD WICHITA, KS. 67206 316-684-9600	JTC DESIGN BY: JUNE 1999 DATE	DAC DRAWN BY: 99027 JOB NO.	JTC CHECKED BY: 6 / 15 SHEET / OF

PLAYERS SPORTS BAR
21ST STREET NORTH
CROSS SECTIONS









VALLEY GUTTER • 21ST. STREET NORTH
& ENTRANCE TO PLAYERS SPORTS BAR

GENERAL NOTES

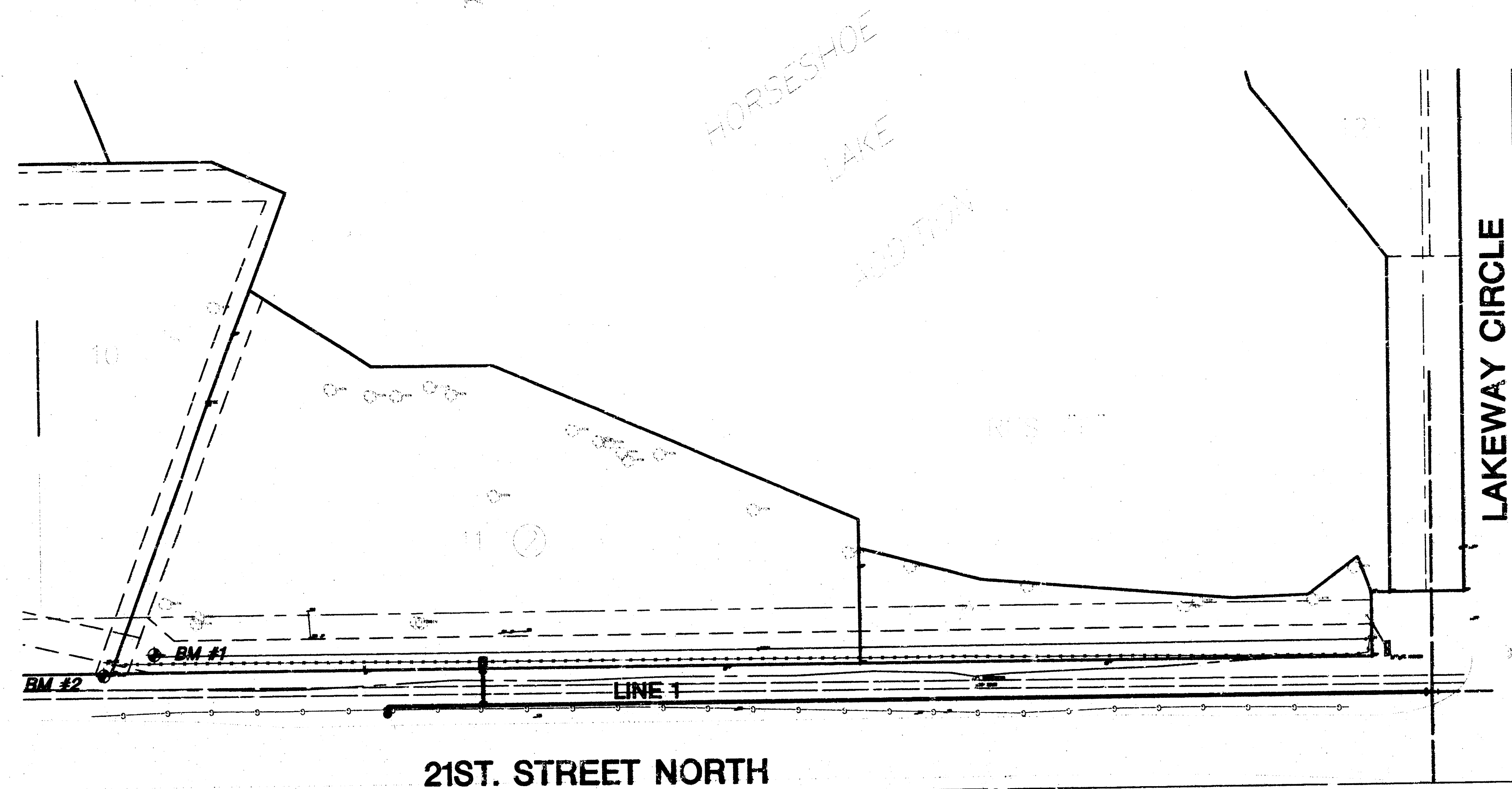
1. CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF FORTY-EIGHT (48) HOURS TO UTILITY COMPANIES PRIOR TO STARTING ANY EXCAVATION AS FOLLOWS:

KANSAS ONE-CALL 687-2470
OR 687-2470 (LOCAL WICHITA)

THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF EMERGENCY:

CABLEVISION 262-0661
KG&E (GAS & ELECTRIC) 383-8600
SOUTHWESTERN BELL TELEPHONE COMPANY 1-800-734-7630
CITY OF WICHITA WATER & SEWER MAINT. 268-4908
WILLIAMS NATURAL GAS 524-0491
OR 1-800-324-9696 (AFTER 4 p.m.)

2. ALL WATER MAINS AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF WICHITA, KANSAS STANDARD SPECIFICATIONS FOR WATER MAIN INSTALLATIONS NO. 14533.
3. THE WATER MAIN SHALL BE CONSTRUCTED ON THE ALIGNMENT SHOWN ON THE PLANS. TREES AND SHRUBS IN PUBLIC RIGHT OF WAY WHICH ARE IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR WITH THE ENGINEER'S APPROVAL, AND SHALL BE INCLUDED IN THE PRICE BID FOR THE INSTALLED WATER PIPE. TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH PROPOSED CONSTRUCTION SHALL BE SAVED AND PROTECTED FROM DAMAGE.
4. OPENING AND CLOSING WATER VALVES SHALL BE DONE SLOWLY TO PREVENT DAMAGE TO THE WATER DISTRIBUTION SYSTEM FROM WATER HAMMER. ALL VALVES CLOSED BY THE CONTRACTOR MUST BE REOPENED AS NEW CONSTRUCTION PERMITS. PROJECT INSPECTOR MUST ASCERTAIN THAT ANY VALVE CLOSED BY THE CONTRACTOR IS REOPENED. CONTRACTOR WILL BE PERMITTED TO OPERATE WATER VALVES ONLY WHEN THE PROJECT INSPECTOR ASSIGNED TO THE PROJECT IS PRESENT.
5. CONTRACTOR SHALL NOT START WORK ON THE PROJECT UNTIL THE PROJECT INSPECTOR IS ASSIGNED TO THE PROJECT AND IS PRESENT ON THE SITE. ANY WORK DONE WITHOUT INSPECTION WILL BE REQUIRED TO BE UNCOVERED FOR INSPECTION.
6. UNDERGROUND UTILITY SERVICE LINES AND OVERHEAD UTILITY POLE LINES ARE TO BE ADJUSTED AS NECESSARY BY OTHERS PRIOR TO CONSTRUCTION UNLESS THE PLANS SPECIFICALLY CALL FOR THEIR ADJUSTMENT BY THE CONTRACTOR. EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS UTILITY COMPANIES AND IS EITHER FROM COMPANY RECORD DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION.
7. THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY DIRECTLY ADJUTING CONSTRUCTION OF THIS PROJECT A MINIMUM OF TEN (10) DAYS NOTICE PRIOR TO START OF CONSTRUCTION.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR WILL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS. ALL COSTS FOR THIS WORK SHALL BE SUBSIDIARY TO SITE RESTORATION.
9. THE CONTRACTOR SHALL RESTORE ALL DITCHES, SWALES, ROAD SHOULDERS, ENTRANCES AND BANK LINES TO THEIR ORIGINAL SLOPES AND GRADES EXCEPT AS SHOWN OTHERWISE.
10. NO SERVICES WILL BE INSTALLED AS PART OF THIS PROJECT.
11. INTERURBAN TRAFFIC GENERATED OUTSIDE THE PROJECT AREA, AND LOCAL BUSINESS OR RESIDENTIAL TRAFFIC GENERATED WITHIN THE PROJECT AREA ARE TO BE CARRIED THROUGH CONSTRUCTION AS FURTHER PROMULGATED BY PROJECT SPECIAL PROVISIONS.
12. RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES INCLUDING ANY TREES REMOVED AND TREE TRIMMINGS SHALL BE DISPOSED OF ON SITES TO BE PROVIDED BY THE CONTRACTOR. THESE SITES SHALL BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE AND SITE LOCATION. LOCATIONS THAT, IN THE OPINION OF THE ENGINEER, WILL LEAVE AN UNSIGHTLY APPEARANCE WILL NOT BE APPROVED. ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN WOULD REQUIRE A KANSAS STATE BOARD OF AGRICULTURE PERMIT. ANY MATERIAL DUMPED IN WATERS OF THE UNITED STATES OR WETLANDS IS SUBJECT TO U.S. CORPS OF ENGINEERS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS WOULD REQUIRE ADDITIONAL ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.
13. ALL LAWN/TURF AREAS DISTURBED BY CONSTRUCTION OF THE PROPOSED IMPROVEMENTS SHALL BE RESTORED WITH THE SAME GRASS/SOD AS EXISTING. RESTORATION OF DISTURBED AREAS SHALL INCLUDE, BUT NOT BE LIMITED TO, TOP SOIL PREPARATION, SEEDING, MULCH, AND/OR RESEEDING. ALL SEEDING/SODDING WORK SHALL BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD SPECIFICATIONS AND THE CITY OF WICHITA ADMINISTRATIVE REGULATION NO. AR78 WHICH GOVERNS CLEAN-UP AND RESTORATION OR REPLACEMENT FOLLOWING CONSTRUCTION. ALL COSTS FOR THIS WORK SHALL BE SUBSIDIARY TO THE LUMP SUM PRICE BID FOR "SITE RESTORATION".
14. THE CONTRACTOR SHALL LAY A TRACER WIRE & SET TEST STATIONS ALONG ANY NONMETALLIC WATER LINE PIPE THEY INSTALL IN ACCORDANCE WITH CITY OF WICHITA SPECIFICATIONS & TRACER WIRE DETAIL ON DETAIL SHEET. INSTALLATION COST WILL BE BID ON A LINEAL FOOT BASIS.



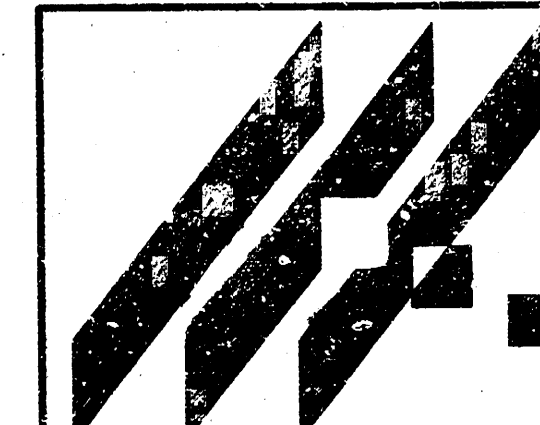
LEGEND

EXISTING WATER MAIN	---
PROPOSED WATER MAIN	---
EXISTING WATER VALVE	---W---
PROPOSED WATER VALVE	---W---
EXISTING FIRE HYDRANT	---FH---
PROPOSED FIRE HYDRANT	---FH---

BENCHMARKS

BM #1	"+" CUT ON N RIM SSMH ±30' ENE OF SW CORNER LOT 11, BLK. 2 ELEV. = 132.735
BM #2	RR SPIKE IN N. FACE PP @ SW CORNER LOT 11, BLK. 2, HORSESHOE LAKE ADDITION ELEV. = 133.185

NOTE:
WATER LINE VALVES TO BE OPERATED BY
CONTRACTOR ONLY IF WATER INSPECTOR
IS ON-SITE.



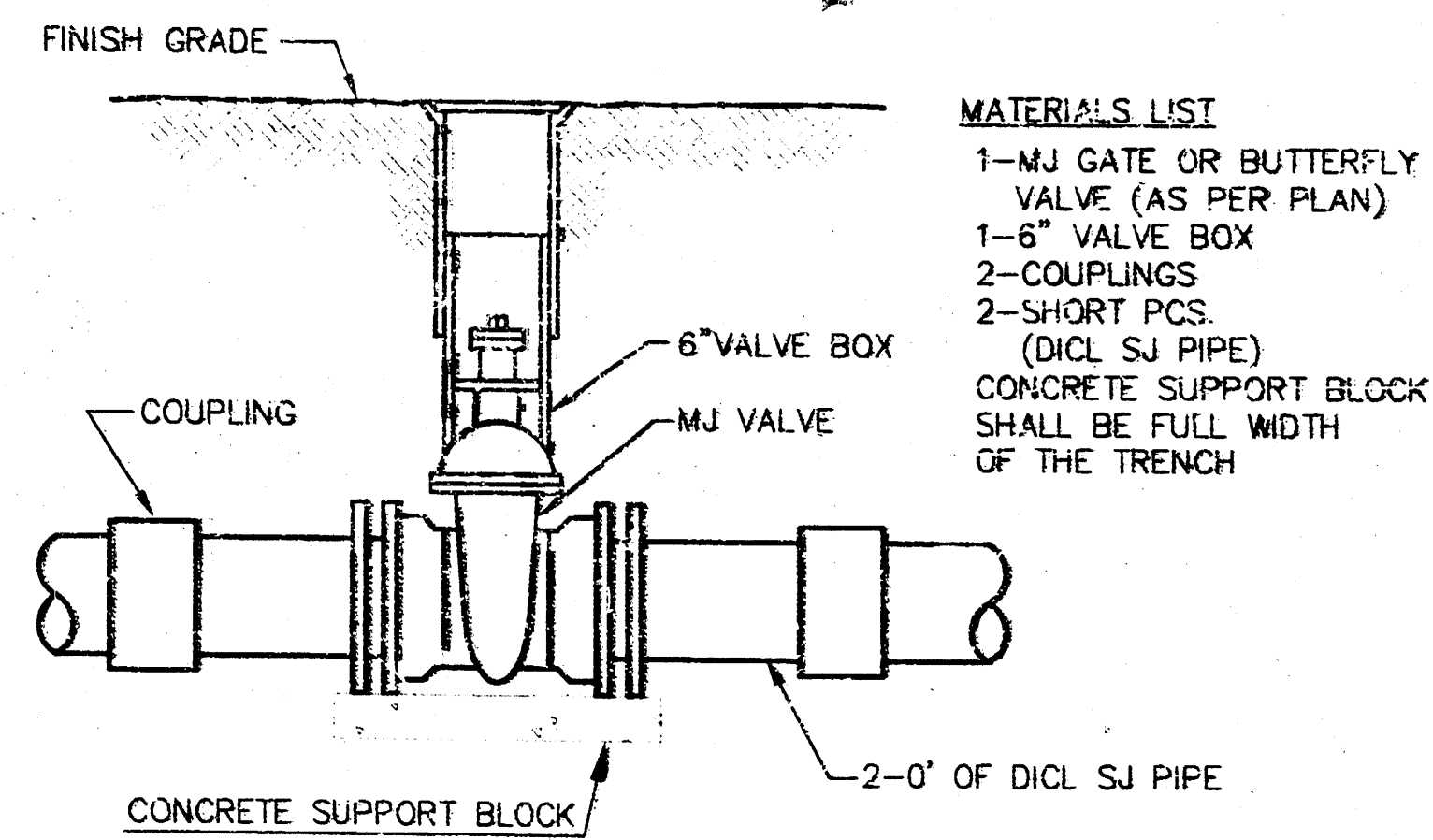
MID-KANSAS ENGINEERING
CONSULTANTS, INC.
411 N WEBB ROAD
WICHITA, KS. 67206
316-684-9600

PLAYERS SPORTS BAR & GRILL
PROJECT NO. 448-89405

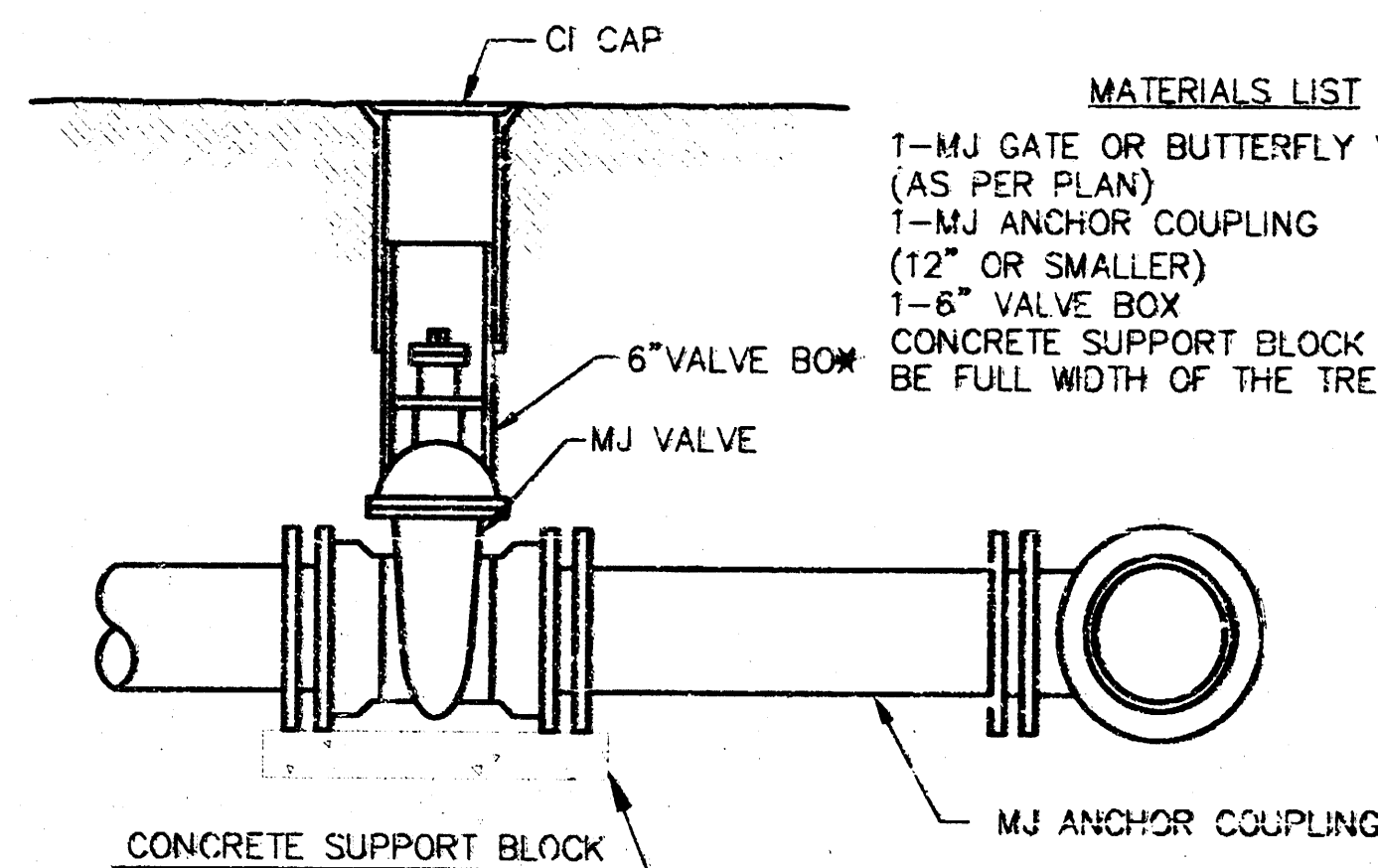
PROJECT NAME

KEY MAP
SHEET TITLE

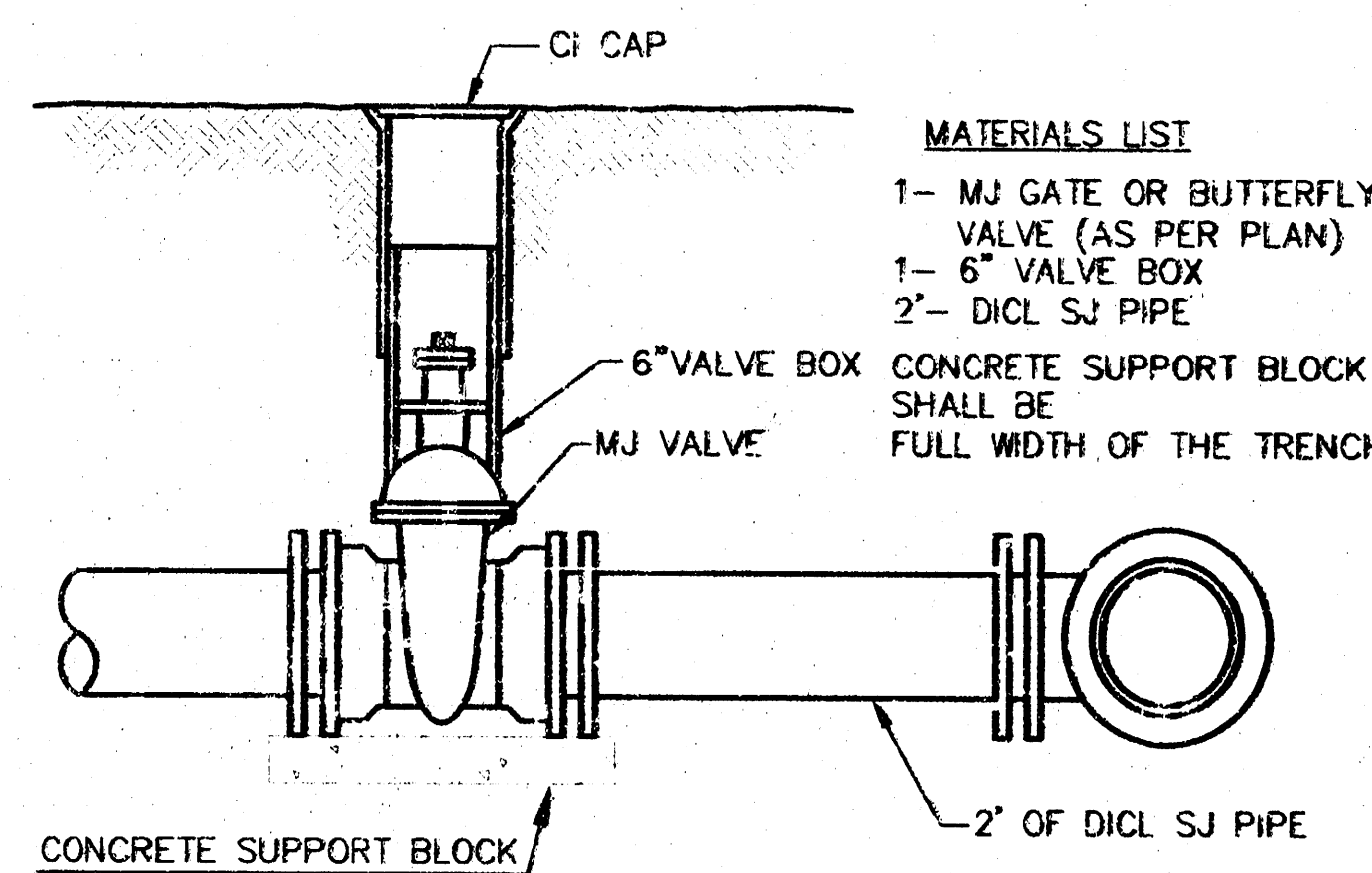
JTC DESIGN BY:	DAC DRAWN BY:	JTC CHECKED BY:
JUNE 1999 DATE	99027 JOB NO.	11 / 15 SHEET/OF



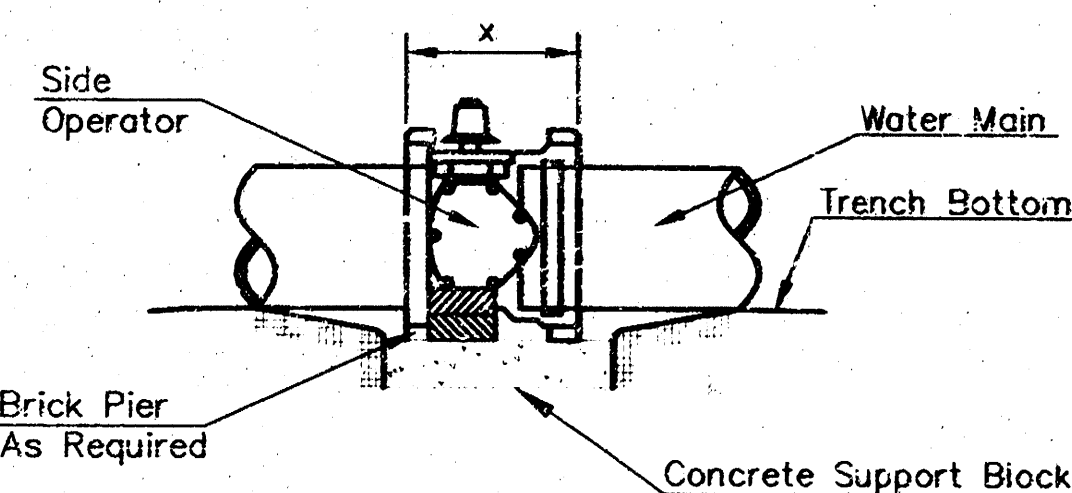
LINE VALVE ASSEMBLY



ANCHORED VALVE ASSEMBLY



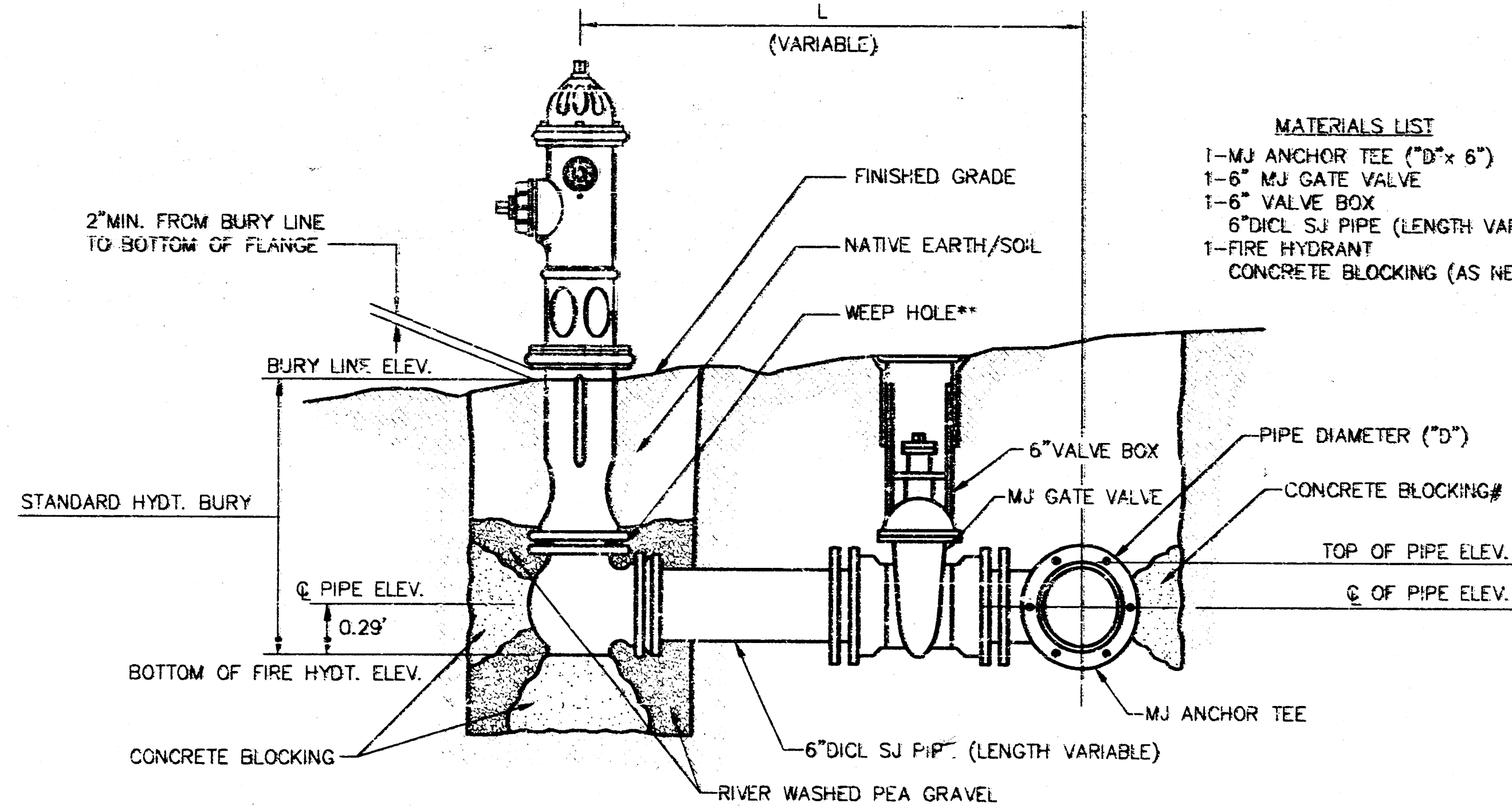
VALVE ASSEMBLY



NOTES

1. This detail covers Butterfly Valve installation, inclusive, regardless of type of pipe or joint used. Larger lines to be detailed on plans.
2. 6" Valve Box and Cover required per City of Wichita Std. Specifications.
3. Conc. Support Block to be full width of trench.

CONCRETE SUPPORT BLOCKING FOR BUTTERFLY VALVE INSTALLATION



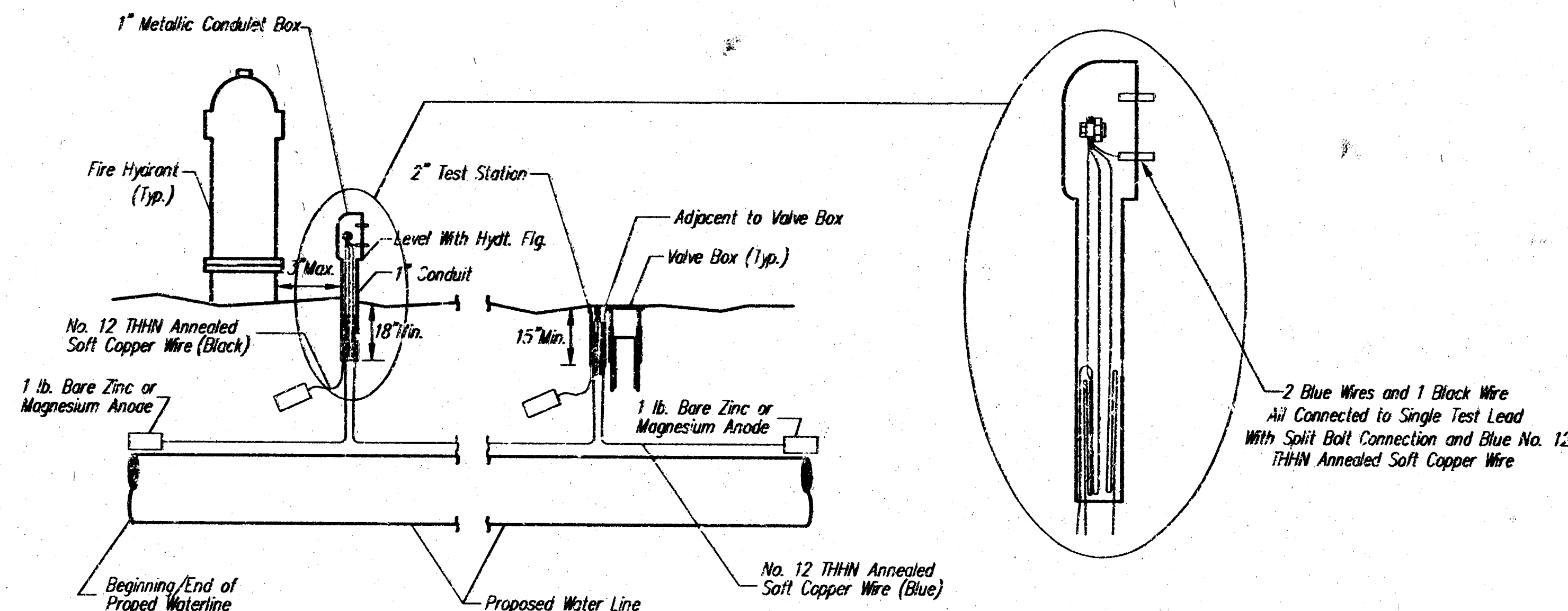
** CAUTION! WEEP HOLES TO BE KEPT CLEAR DURING CONSTRUCTION AND BACKFILL. CONCRETE FOR THRUST BLOCKING SHALL NOT OBSTRUCT WEEP HOLES.

CONCRETE THRUST BLOCKING SHALL BE KEPT CLEAR OF BOLTS, NUTS, AND MJ ACCESSORIES.

* IF HYDRANT BURY IS IN EXCESS OF 5', CONTRACTOR SHALL USE STANDARD 5" HYDRANT BURY AND HYDRANT BARREL EXTENSIONS AS NECESSARY.

FIRE HYDRANT ASSEMBLY
PER CITY OF WICHITA SPECIFICATIONS

FIRE HYDRANTS REQUIRED				
LINE NUMBER	STATION	BURY LINE ELEVATION	TOP OF PIPE ELEVATION	FIRE HYDRANT BURY REQUIRED*
1	6+91.50	134.52	127.69	7.5'



TRACER WIRE

Conductive type pipe locator/tracer wire shall be installed to locate Polyvinyl Chloride (PVC) or any nonmetallic waterline pipes. The wire shall extend the entire length of the proposed pipe. The wire shall be taped to the waterline and pulled with the pipe. Split-bolt connectors shall be used at splice locations. Electrical tape shall cover all splices so no bare wire is exposed. Test stations shall be installed adjacent to all fire hydrants along the waterline, and of blowoffs or valves near the ends of the waterlines. Any exceptions to the location of test stations shall be approved by the engineer. At each test station, the tracer wire shall be connected to a 1 lb. zinc or magnesium anode. Anodes shall also be attached to the tracer wire at both the beginning and the end of the proposed waterline. A typical layout of the tracer wire and test station is provided in the above figure.

WIRE

The tracer wire shall be Blue No. 12 THHN annealed soft copper wire with thermal plastic insulation. The insulation shall be heat, oil, and gasoline resistant as manufactured by Temple Electric or approved equal. To allow for grade adjustment, a minimum of 12" of excess wire shall be coiled at the bottom of the test station for all wires. The insulation sheathing shall be removed such that 1" bare copper wire is exposed at all points of connection. Contractor shall attach wire being installed with proposed water main to any tracer wire installed with adjacent waterline projects.

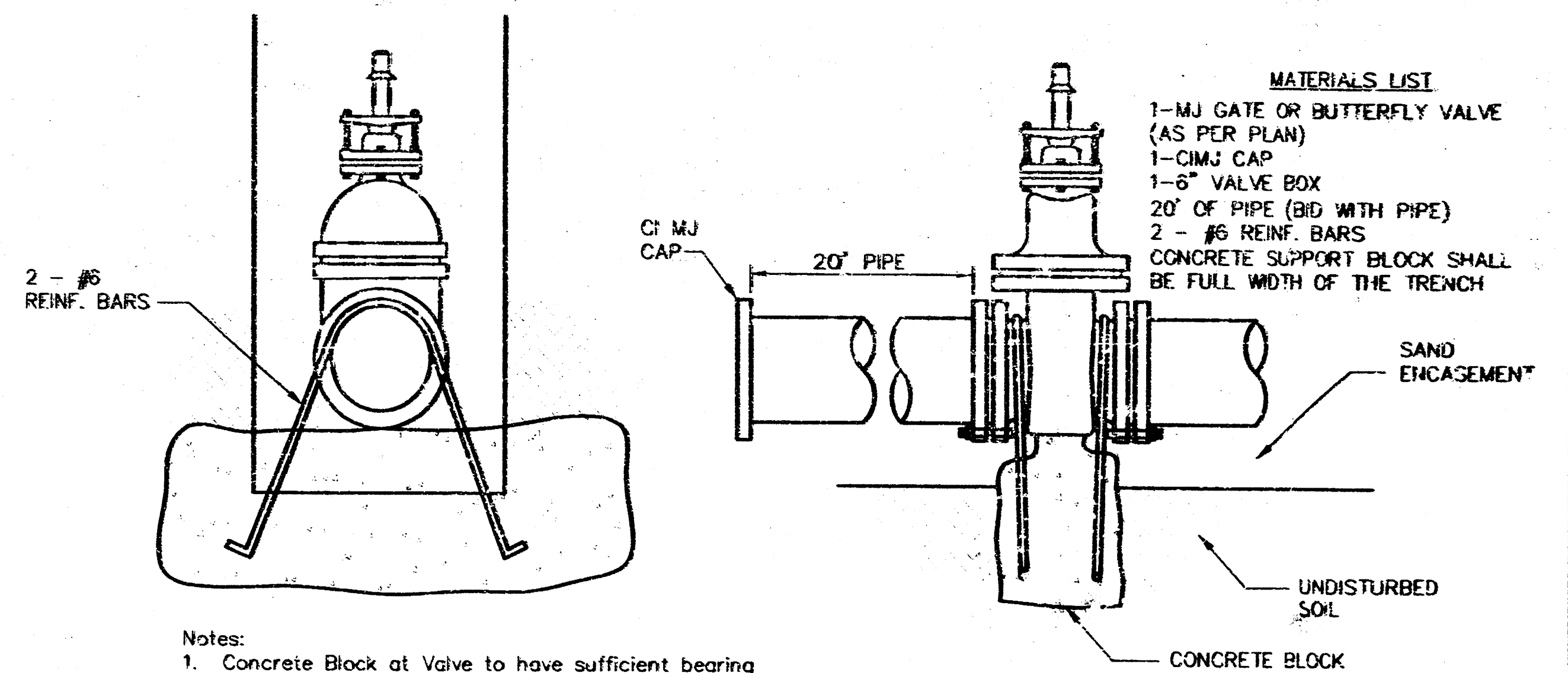
TEST STATIONS

The test station for fire hydrant applications shall be a 1 inch galvanized conduit style test station as manufactured by AGRA Industries with a removable solid cover having two leads extending from the face or approved equal. The test station for valve applications shall be 2 inch flush style test station T2PS3B as manufactured by HANDELY Industries or approved equal. The conduit style shall be attached to a 1 inch rigid galvanized conduit with a minimum length of 36" and plastic end bushing. The flush style shall have the word "WATER" stamped or molded into the lid. All test stations shall be manufactured using molded blue tops or sufficiently coated with blue enamel paint. The tracer wire and the anode wire shall be installed to allow 10 inches of wire within the test station. In concrete environments such as sidewalks or in the downtown area the contractor shall use the flush style test station. The location of all test stations shall be approved by the engineer, recorded, and shown in the as-built drawings.

ANODES

The anodes shall be 1 lb. bare zinc or magnesium. The anodes shall be buried at the same elevation as the waterline at each test station. The anodes shall be connected to Black No. 12 THHN annealed soft copper wire which shall be extended to the test station.

TRACER WIRE DETAIL
COST IS SUBSIDIARY TO PIPE INSTALLATION



Notes:
1. Concrete Block at Valve to have sufficient bearing in undisturbed soil to prevent thrust movement as shown in table at right. Field Engineer to determine thrust loading of undisturbed soil and final size of thrust block.

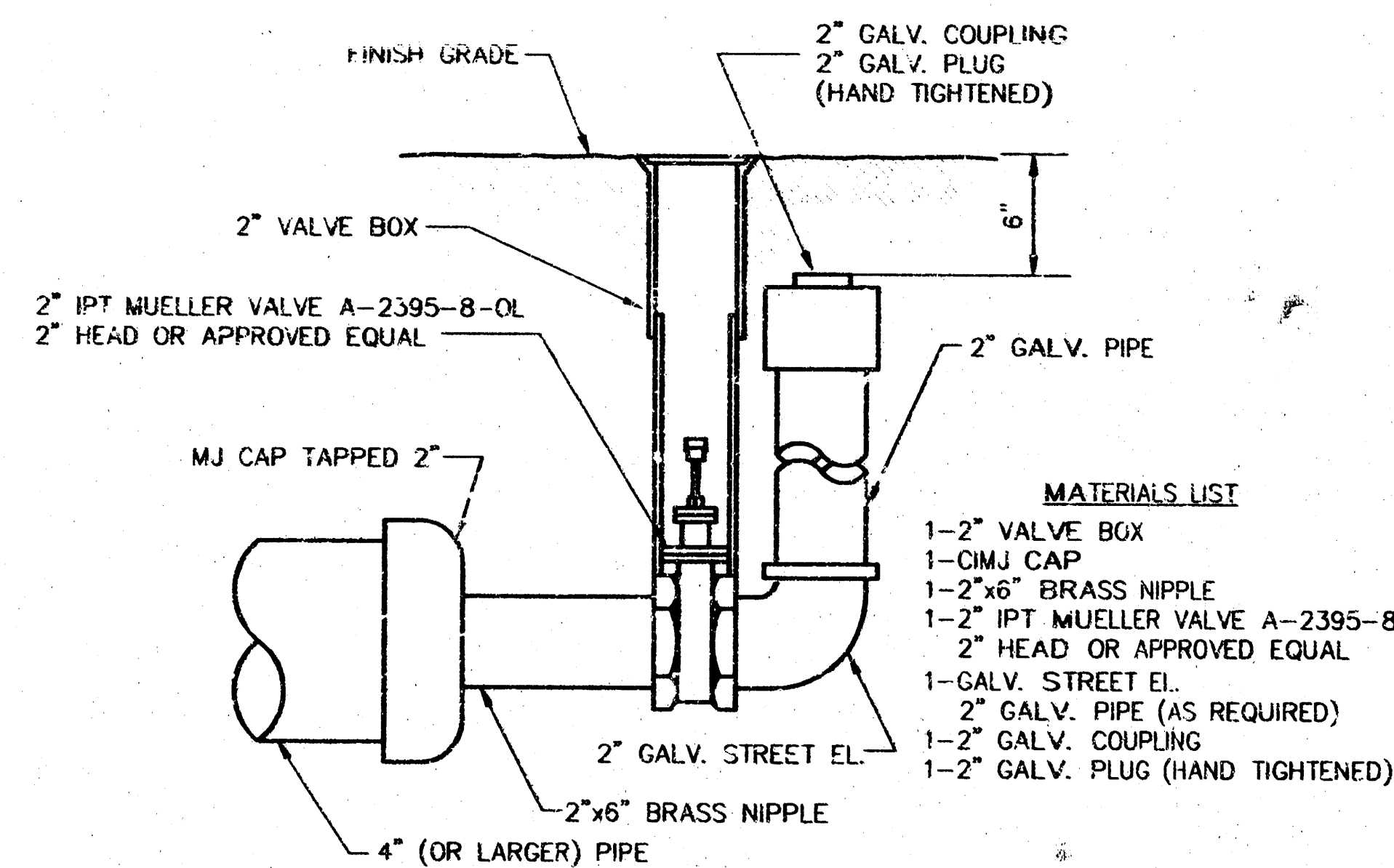
2. The thrust block shall be constructed such that bolts, nuts, and other MJ accessories are kept clear of concrete.

3. All valves at dead ends and at other locations as called out on the plans shall be blocked as shown here.

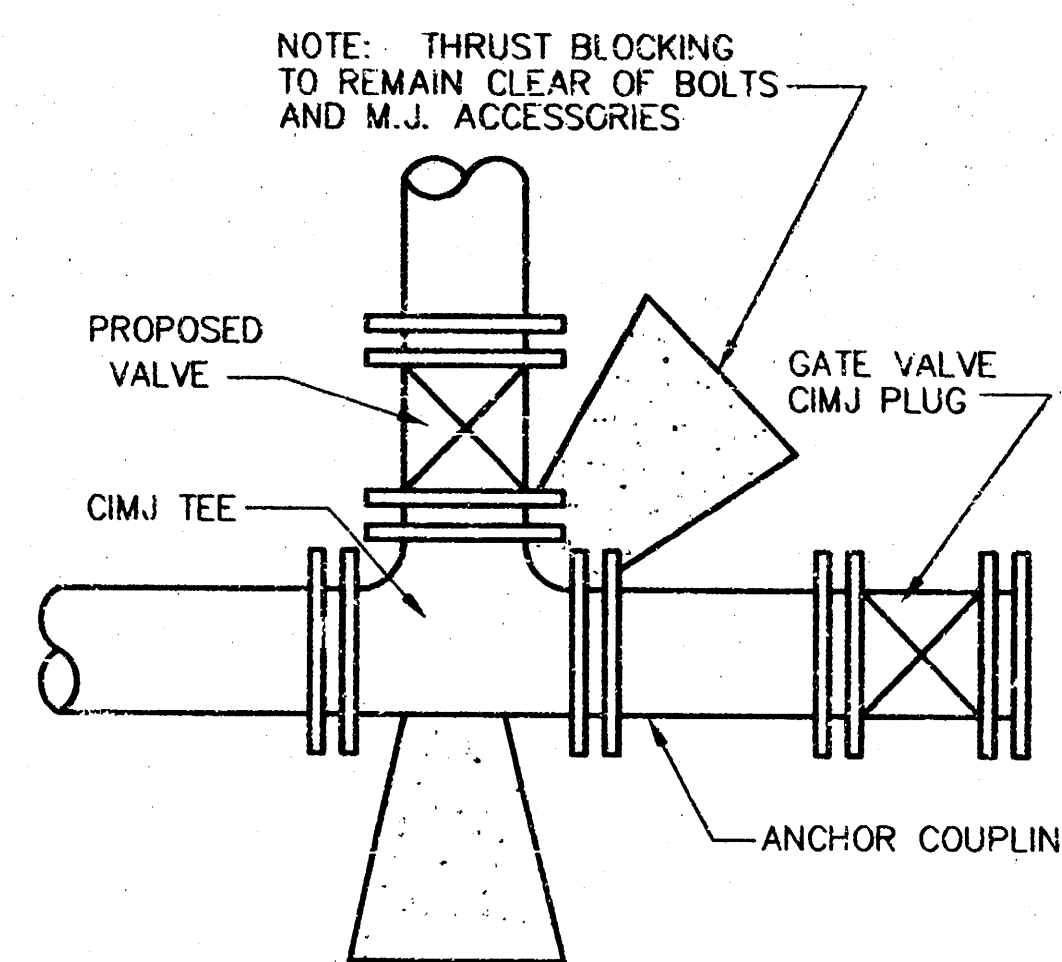
THRUST AT VALVES

VALVE	THRUST AT 150 #/sq. in.
4"	1809 lbs.
6"	4245 lbs.
8"	7540 lbs.
12"	16965 lbs.

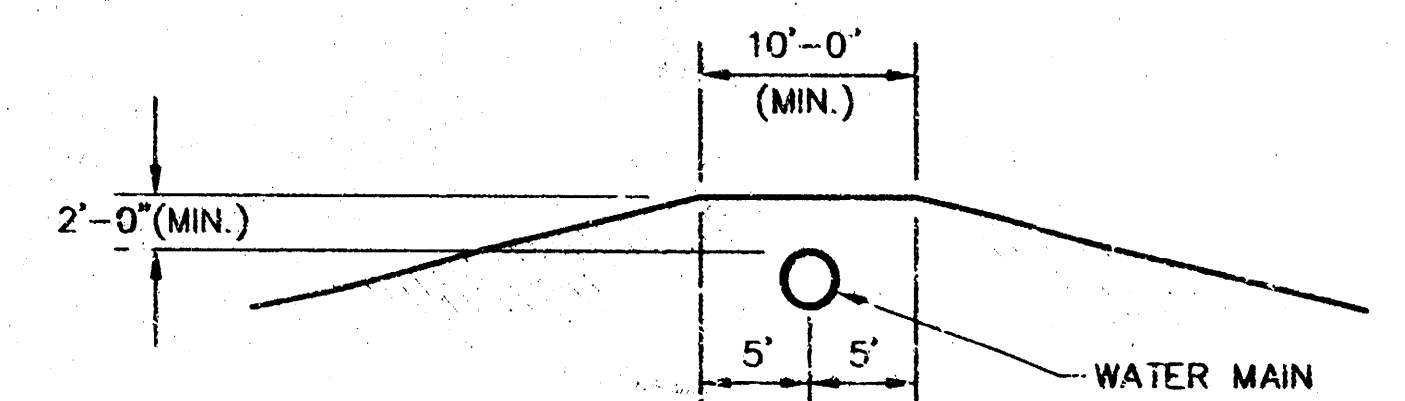
ANCHORED VALVE ASSEMBLY, SPECIAL



2" BLOWOFF ASSEMBLY



KEY BLOCK DETAIL

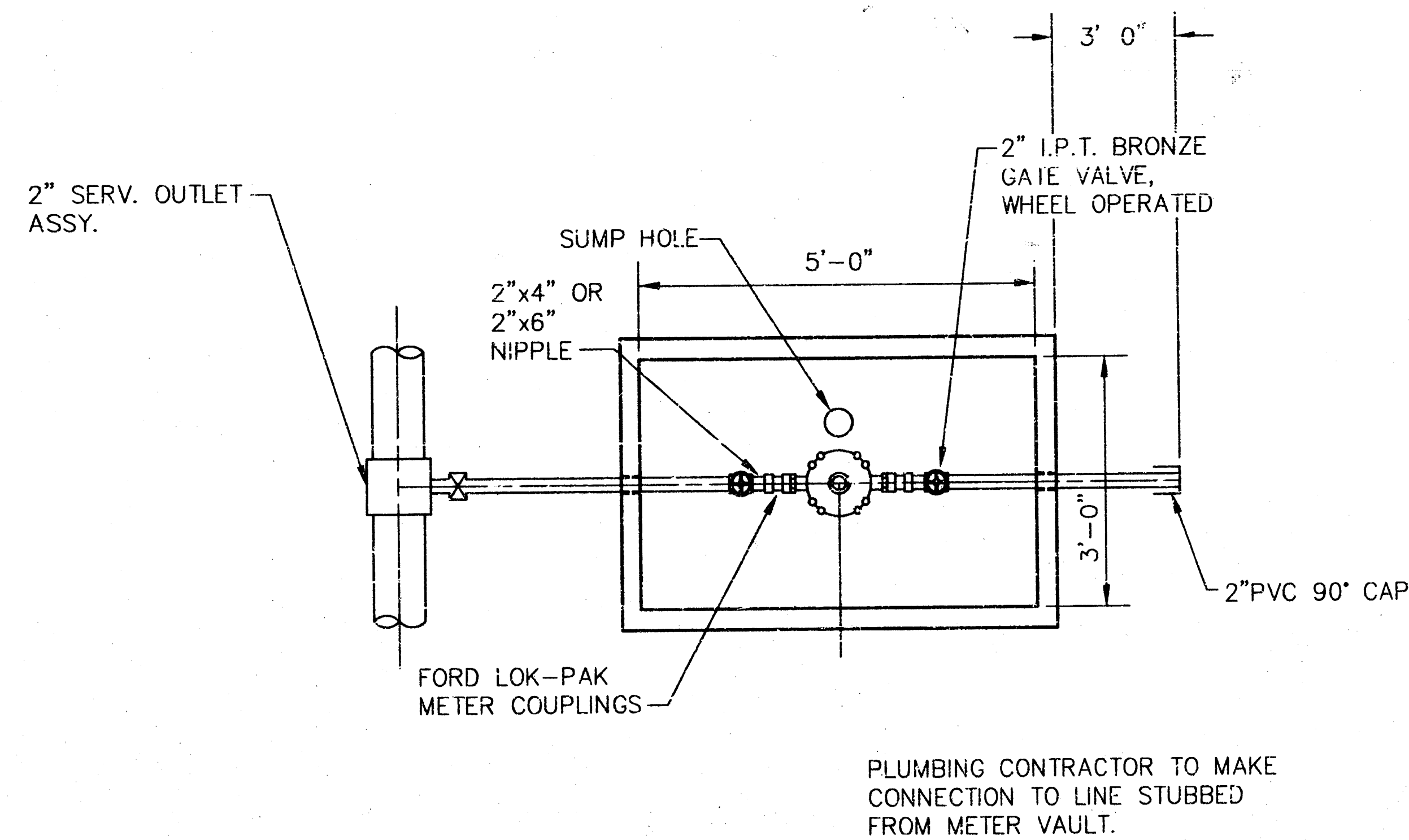


PROTECTIVE FILL DETAIL

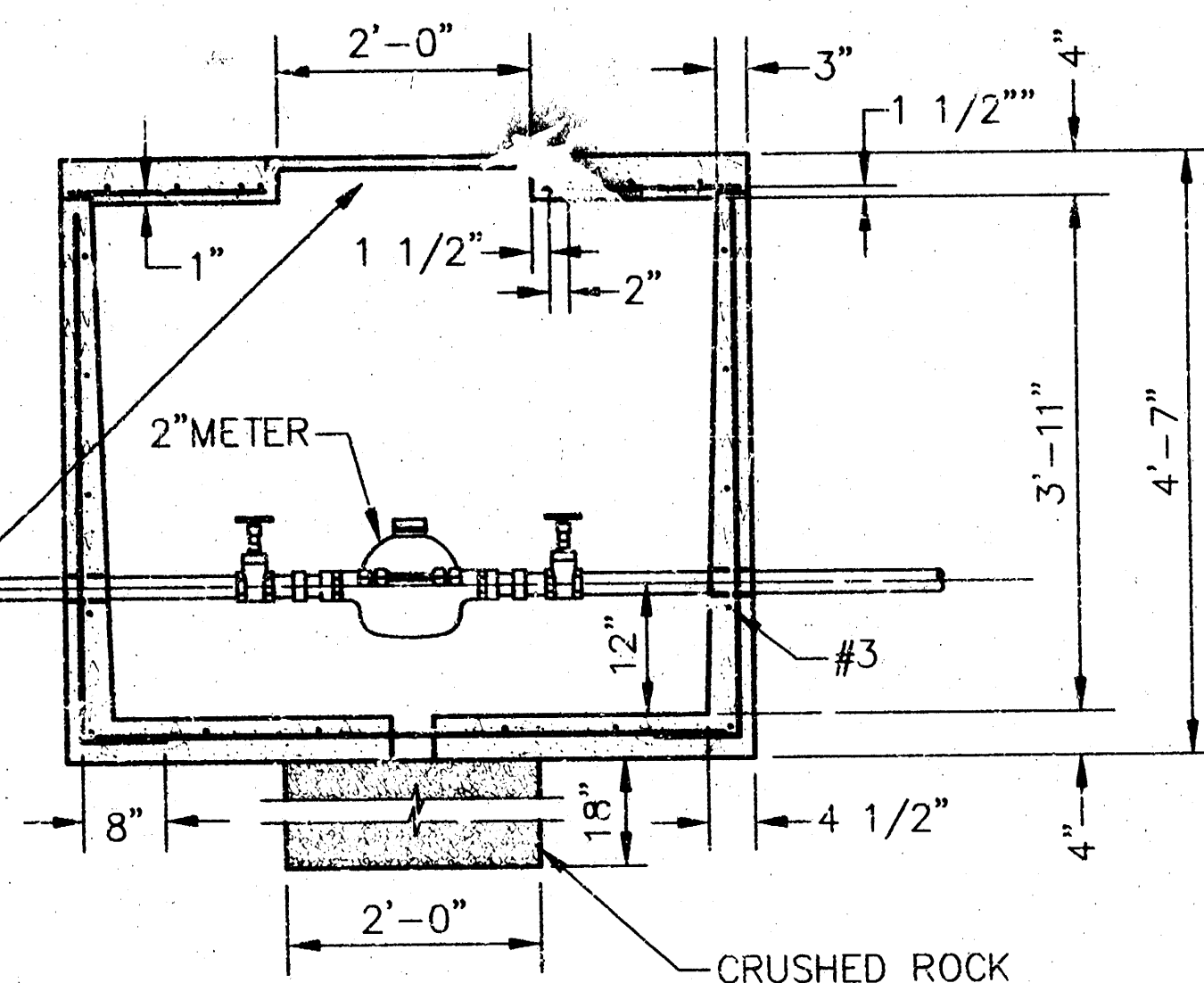
MINIMUM PROTECTIVE FILL SHALL BE PROVIDED IN ALL INSTANCES WHERE COVER OVER THE PROP. WATER LINE IS LESS THAN (2) FEET. (COST SUBSIDIARY TO PIPE INSTALLATION)

PROJECT NO. 488-89405

		STANDARD WATER ASSEMBLY DETAILS	
		M. E. LINDEBAK P.E. - CITY ENGINEER	
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202 (316) 268-4500 (316) 268-4114 FAX		PROJECT NUMBER	INDEX CODE
DATE JUNE 99	SHEET 12 OF 15		

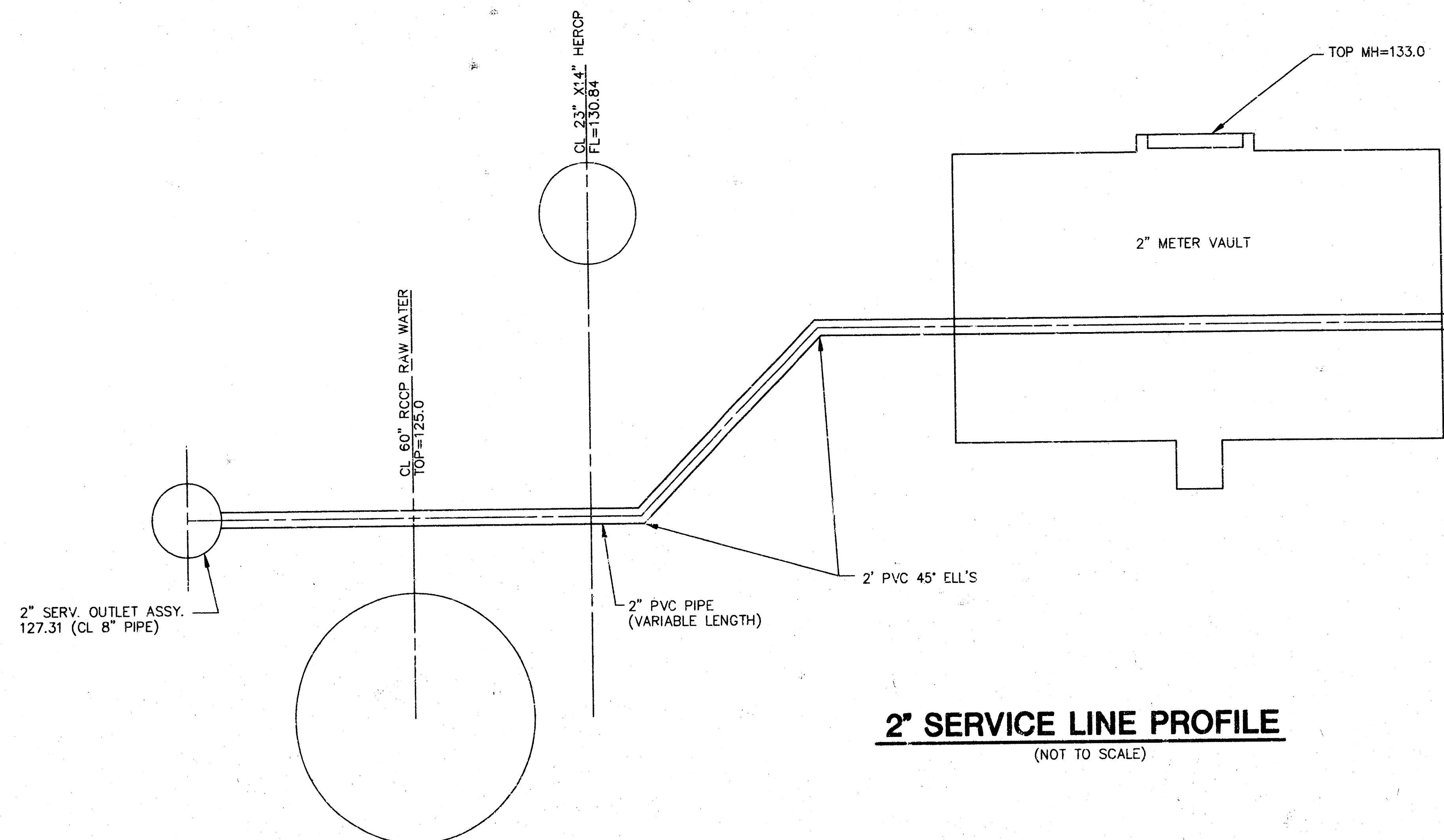


NOTE:
ADD 6" THROAT EXTENSION
TO MANHOLE COVER AS
TOP OF VAULT TO BE
UNDER PLANTING AREA W/
TOP OF THROAT EXTENSION
BEING FLUSH WITH TOP OF
CURB.



2" COMMERCIAL METER
NO SCALE

VAULT MANUFACTURER:
CLUTTER EQUIPMENT CO.
1301 W. 53rd ST. NO.
WICHITA, KANSAS 67204



2" SERVICE LINE PROFILE
(NOT TO SCALE)

NOTES:

1. WHEN THE STANDARD VAULT DIMENSIONS ARE NOT APPLICABLE, SUCH AS WHEN ADDITIONAL SPACE IS REQUIRED FOR SPECIAL PIPE FITTINGS, ADDITIONAL METERS, ETC., THE DEPARTMENT SHALL DESIGN A VAULT WITH THE REQUIRED DIMENSIONS.
2. WHEN IT BECOMES NECESSARY TO LOCATE A VAULT IN AN AREA WHERE IT WILL BE SUBJECTED TO VEHICULAR LOADS, THE TOP WILL BE DESIGNED TO SATISFY THE CONDITIONS AS SET FORTH IN ORDINANCE NO. 12-586; PARAGRAPH 2804, OF THE CITY OF WICHITA, KANSAS.
3. THE VAULT MAY BE POURED CONCRETE, CEMENT BLOCKS (VOIDS TO BE COMPLETELY FILLED WITH 2500 P.S.I. CONCRETE) OR CLUTTER STANDARD VAULT, 3'x3'.
4. VAULT LOCATION TO BE DETERMINED BY WATER DEPT. PRIOR TO CONSTRUCTION.
5. MANHOLE RING AND LID TO BE CLAY & BAILEY K-C MO. TYPE "B", DEETER FOUNDRY, INC., #2000 WITH 1" PICK HOLES OR NEENAH R-6034 FRAME WITH TYPE "C" SOLID LID AND DROP HANDLE.
6. THE WATER DEPT. SHALL FURNISH AND INSTALL ALL FITTINGS WITHIN THE VAULT.
7. THE CONTRACTOR SHALL PROVIDE AN OUTLET FLANGE CONNECTION AS SHOWN 12" FROM INSIDE WALL. INLET AND OUTLET WALL SLEEVE SHALL BE PROVIDED BY THE CONTRACTOR AND SHALL BE IN ALIGNMENT WITH ONE ANOTHER. INLET AND OUTLET PIPE TO BE DUCTILE IRON, CEMENT LINED, PER WATER DEPARTMENT SPEC. #14533 OR SCHEDULE 80 P.V.C. PIPE TO BE CONTINUOUS THROUGH VAULT WALL AND JOINT NO LESS THAN 2' FROM EXTERIOR WALL OF VAULT. WATER DEPARTMENT TO FURNISH AND INSTALL INLET PIPE IF METER ABUTS WATER DEPARTMENT EASEMENT OF CITY R.O.W.
8. PLUMBING CONTRACTOR TO MAKE CONNECTION TO LINE STUBBED FROM METER VAULT.

NOTE: FOR INFORMATION ONLY
WORK ON THIS SHEET WILL BE PERFORMED BY OTHERS

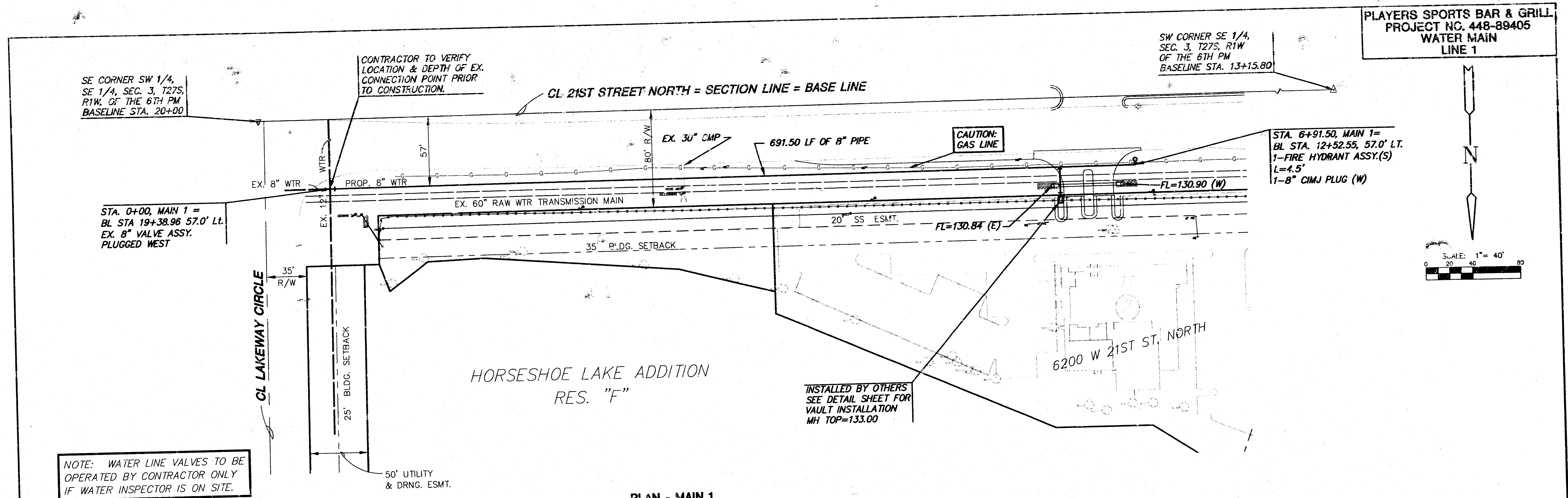
**MID-KANSAS ENGINEERING
CONSULTANTS, INC.**
411 N. WEBB ROAD
WICHITA, KS. 67206
316-684-9600

PLAYERS SPORTS BAR & GRILL
PROJECT NO. 448-89405

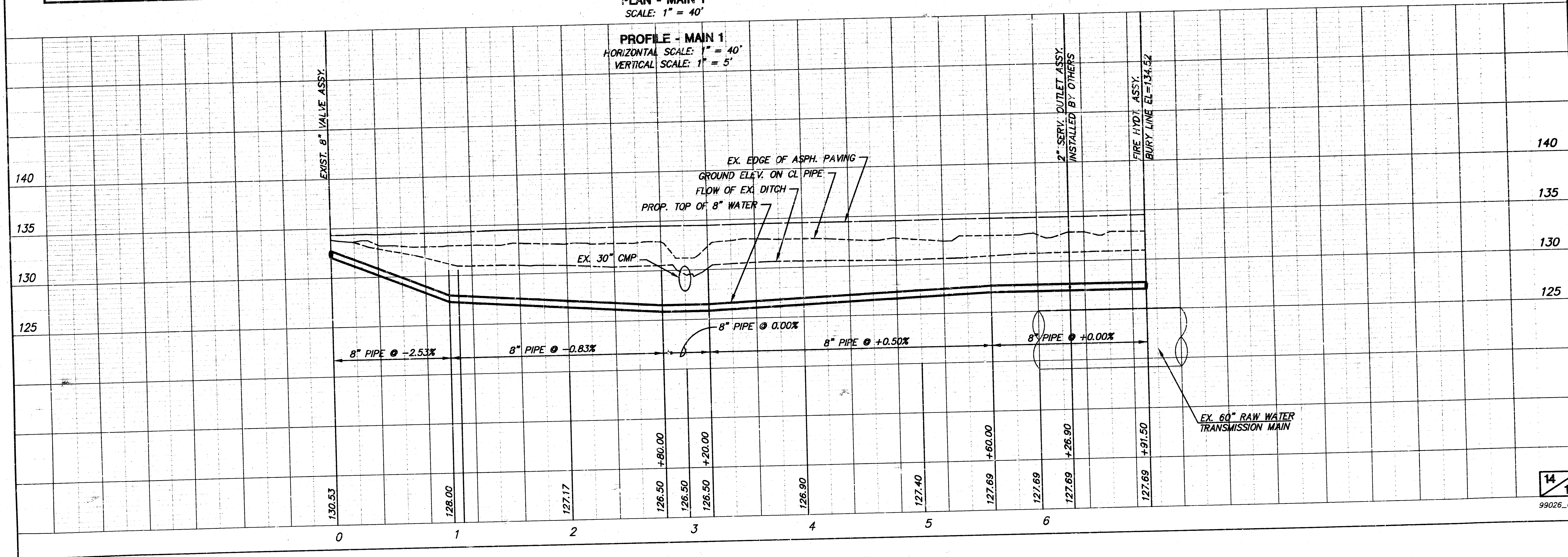
WATER VAULT DETAILS
SHEET TITLE

JTC DESIGN BY:	DAC DRAWN BY:	JTC CHECKED BY:
JUNE 1999 DATE	99027 JOB NO.	13 / 15 SHEET OF

PLAYERS SPORTS BAR & GRILL
PROJECT NO. 448-89405
WATER MAIN
LINE 1



PLAN - MAIN 1
SCALE: 1" = 40'



HORSESHOE LAKE

AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS

