ACCELERATION - DECELERATION LANE AND LEFT TURN LANE

21st STREET NORTH

ON THE SOUTH SIDE OF 21st STREET NORTH, FROM A POINT 819' WEST OF THE W.L. TYLER ROAD TO A POINT 200' WEST OF THE W.L. TYLER ROAD

CITY OF WICHITA, KANSAS

M.E. LINDEBAK CITY ENGINEER

CITY PROJECT NO. 472-76-245-80972-000-000-001

INDEX NO. 760280

FEBRUARY, 1990

General Notes

1. CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF TWENTY-FOUR (24) HOURS TO UTILITY COMPANIES PRIOR TO STARTING ANY EXCAVATION AS FOLLOWS:

   KANSAS ONE-CALL 687-2470

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

CABLEVISION	262-4270 OR 263-2061
K.P. & L. GAS SERVICE CO.	263-7511
KANSAS GAS & ELECTRIC	264-1141
ARKLA GAS COMPANY	924-8350 OR 263-8161
SOUTHWESTERN BELL TELEPHONE CO.	1-571-2611
CITY OF WICHITA WATER DEPT.	268-4908
CITY OF WICHITA SEWER DEPT.	268-4071

2. INTERURBAN TRAFFIC GENERATED OUTSIDE THE PROJECT AREA IS TO BE CARRIED THROUGH CONSTRUCTION.

3. UTILITY SERVICE LINES, POLES, VALVE BOXES, METERS AND ETCETERA ARE TO BE ADJUSTED AS NECESSARY BY OTHERS PRIOR TO CONSTRUCTION UNLESS THE PLANS SPECIFICALLY CALL FOR THEIR ADJUSTMENT BY THE CONTRACTOR OR UNLESS THE PLANS SPECIFICALLY IDENTIFY A UTILITY TO BE ADJUSTED BY ITS OWNER DURING CONSTRUCTION. EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING FACILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION.

4. A SAW CUT OF AT LEAST ONE-HALF THE DEPTH OF 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 COURSE OR PAVEMENT FOR WHICH PARTIAL REMOVAL OF THAT SURFACE OR PAVEMENT IS REQUIRED. SAWED 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.

5. 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.

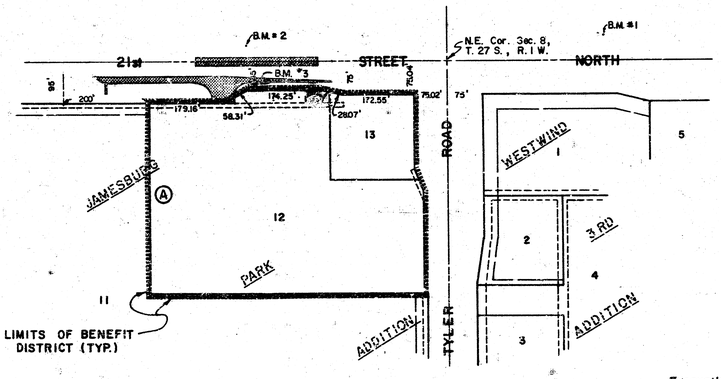
6. LIMITS OF EARTHWORK, SHALL MATCH EXISTING GROUND ELEVATIONS AT THE RIGHT-OF-WAY LINE UNLESS OTHERWISE NOTED ON THE PLANS WITH A NEW FINISHED GRADE ELEVATION. WHEN A NEW FINISHED GRADE ELEVATION IS SHOWN, THE EARTHWORK SHALL EXTEND ONE FOOT BEYOND THE RIGHT-OF-WAY LINE, AND THEN SLOPED UP OR DOWN USING PERMISSIBLE SLOPES TO MATCH THE EXISTING GROUND SURFACE.

7. THE CONTRACTOR WILL BE PERMITTED TO BID ONLY ONE OF THE ALTERNATE TYPES OF SUBGRADE TREATMENT. THE TYPE BID BY THE SUCCESSFUL BIDDER WILL BE THE TYPE OF SUBGRADE TREATMENT USED TO CONSTRUCT THE PROJECT.

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.

9. THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY ABUTTING THE PROJECT LIMITS A MINIMUM OF TEN (10) DAYS ADVANCE NOTICE PRIOR TO START OF CONSTRUCTION.

10. THE CONTRACTOR SHALL FERTILIZE, SEED AND MULCH THE DISTURBED AREAS PER CITY STANDARDS. ALL SUCH WORK SHALL BE PAID FOR AT THE PRICE BID PER ACRE FOR FERTILIZING, SEEDING AND MULCHING.



EARTHWORK

Excavation	= 240 C.Y.
Compacted Fill	= 202 C.Y.
Borrow Excavation (Contractor Furnished)	= 234 C.Y.
Subgrade Manipulation	= 1258 S.Y.

INDEX TO THE PLANS

1. Cover Sheet
2. Removal Plan, 21st ST. N.
3. Paving Improvements, 21st ST. N.
4. Pavement Marking Detail, 21st ST. N.
5. Typical Sections; Drive Entrance Joint Details; Type I (Special) & Type II (Special) Curb & Gutter Details
6. Median Nose Details; Flume Inlet, Slope Drain Details
7. SWS Plan & Profile
8-9. 21st ST. X-Sections

BENCHMARKS

1. Chiseled "□" on S.W. Cor. of Reinf. Conc. Blowoff Structure (C.O.W. 60" Water Main) 365' E. & 55' N. of Intersection of 21st & Tyler Rd.
   Elev. = 175.55 City Datum
2. Chiseled "□" on S.W. Cor. Curb Inlet on N. Side 21st ST. N. (Sta. 4+29.87).
   Elev. = 167.79 City Datum
3. Chiseled "□" on N.W. Cor. Reinf. Conc. SWS Structure. Sta. 4+27.23, 50.4' Rt.
   Elev. = 167.63 City Datum

DION C. MOEHRING II LICENSED 3463 KANSAS PROFESSIONAL ENGINEER

MOEHRING & ASSOCIATES
CONSULTING ENGINEERS
WICHITA

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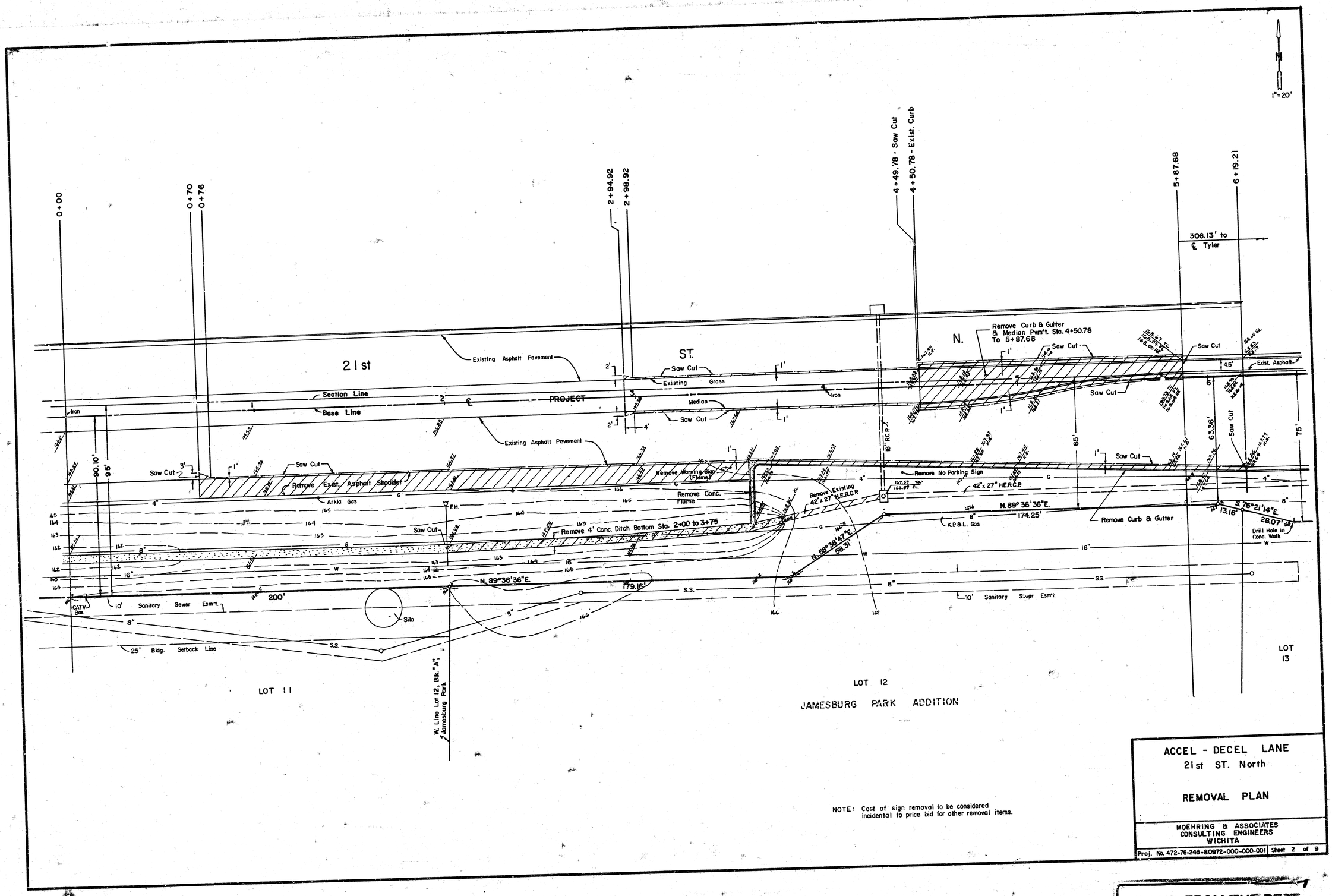

NOTE: Cost of sign removal to be considered incidental to price bid for other removal items.

ACCEL - DECEL LANE
21st ST. North

REMOVAL PLAN

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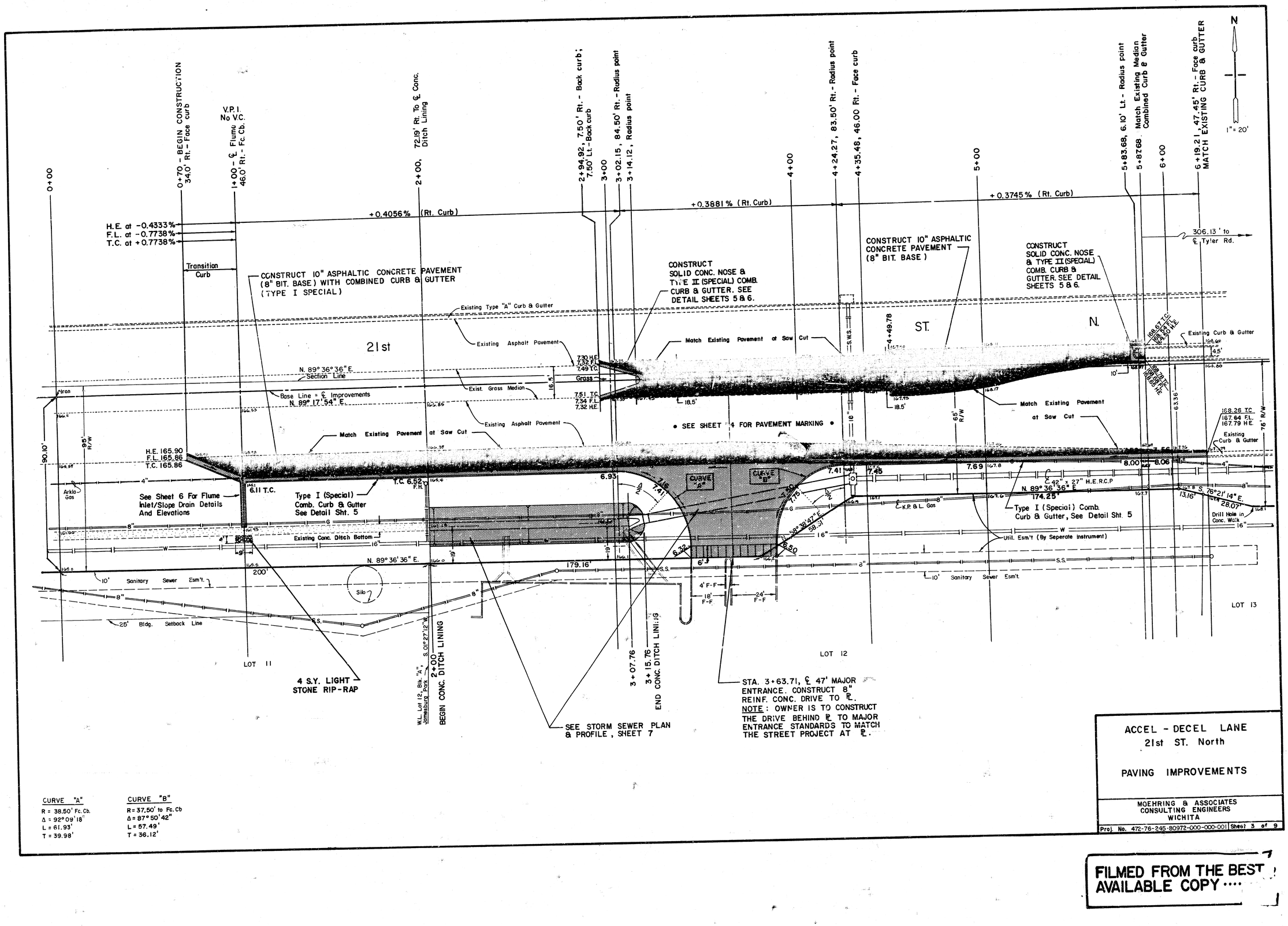

CURVE "A"
R = 38.50' Fc. Cb.
Δ = 92° 09' 18"
L = 61.93'
T = 39.98'

CURVE "B"
R = 37.50' to Fc. Cb
Δ = 87° 50' 42"
L = 57.49'
T = 36.12'

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21st ST. North

PAVING IMPROVEMENTS

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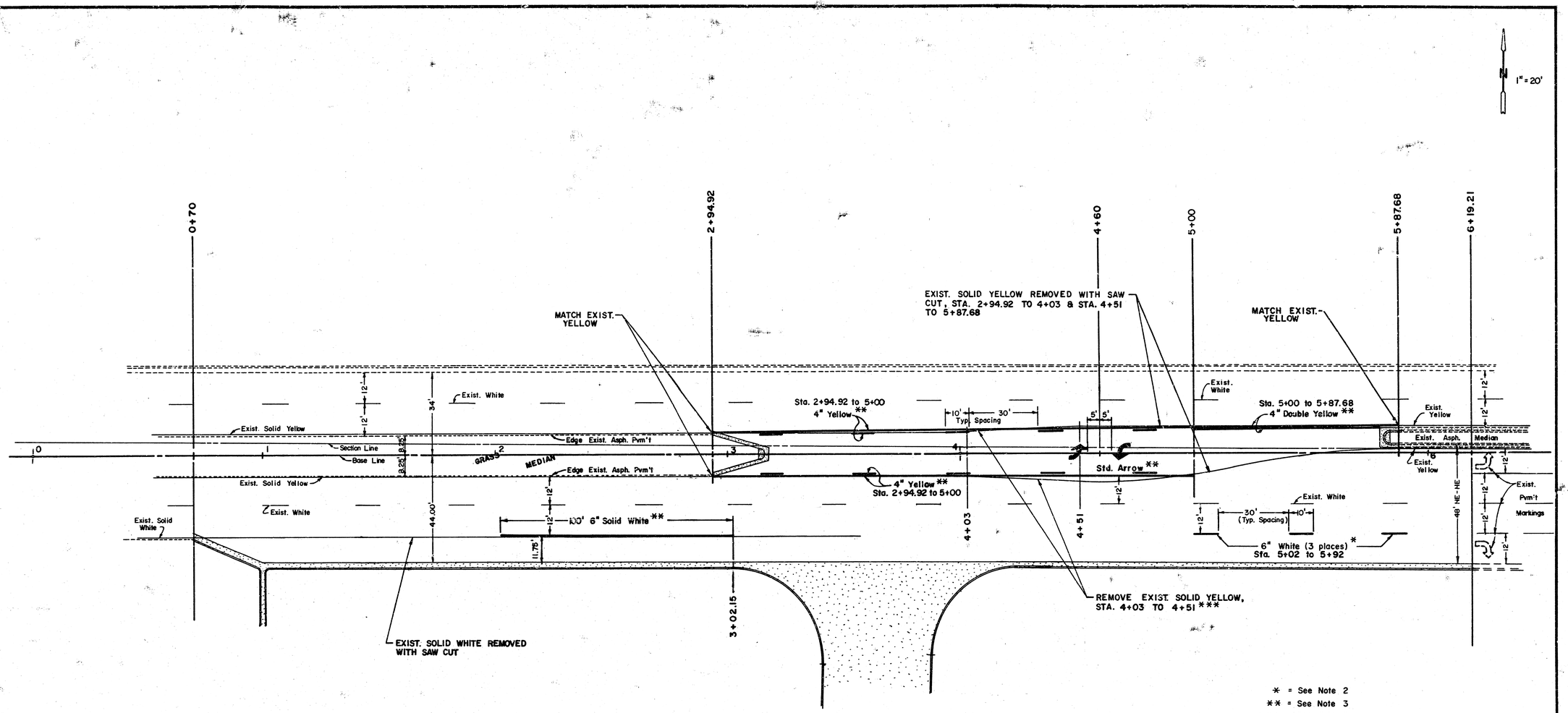

* = See Note 2
** = See Note 3
*** = See Note 4

PAVEMENT MARKING QUANTITIES		
Street Materials	21st ST. N. Lineal ft.	Lin. ft. (+5%) TOTAL
4" Yellow	685.52	719.80
6" White	130.00	136.50
Lt. Arrow	1	1
Rt. Arrow	1	1
Removal	98.00	100.80

NOTE:

1. ALL PAVEMENT MARKINGS SHALL CONFORM TO THE CURRENT STANDARDS SET FORTH IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
2. ALL PAVEMENT MARKINGS SHALL BE THE "COLD-LAID PLASTIC TAPE(S) AND PRE-CUT STANDARD SYMBOL(S)" TYPE MEETING THE REQUIRED SPECIFICATIONS. INSTALL AND COLD ROLL AS PER STANDARD INSTALLATION PROCEDURE FOR COLD-LAID PAVEMENT MARKINGS.
3. WHERE NEW PAVEMENT (ASPH. CONC.) IS BEING CONSTRUCTED, THE PAVEMENT MARKINGS MUST BE INSTALLED WHILE THE NEW WEARING SURFACE IS STILL WARM (AT LEAST 130°F.) AND ROLLED, SO AS TO INLAY THE PAVEMENT MARKINGS INTO THE NEW PAVEMENT.
4. PAVEMENT MARKING REMOVAL (EXISTING) SHALL BE ACCOMPLISHED IN ACCORDANCE WITH CITY STANDARDS FOR PAVEMENT MARKING REMOVAL.

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21st ST. North

PAVEMENT MARKING DETAIL

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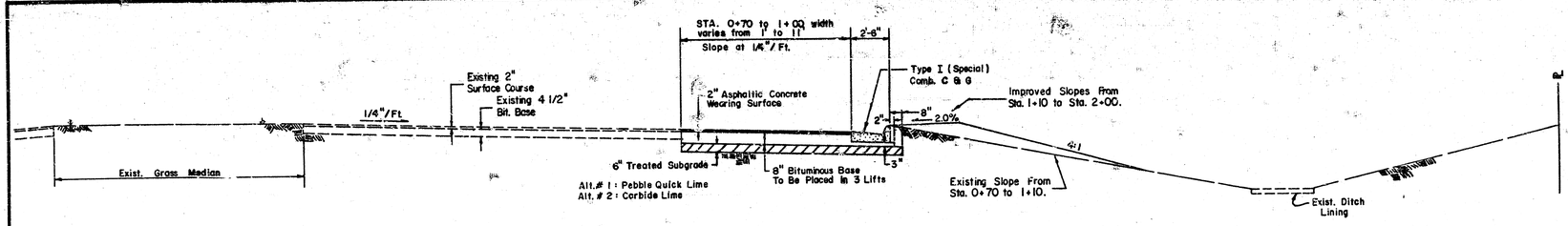
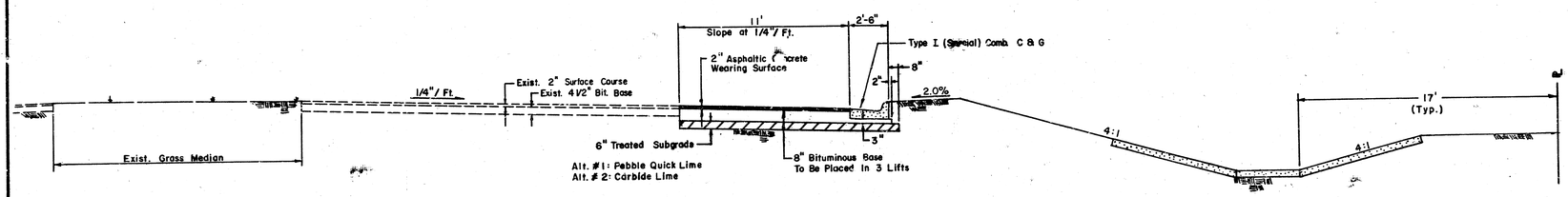
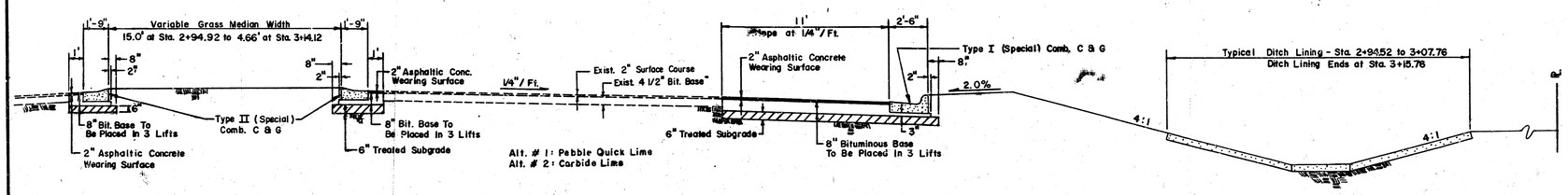


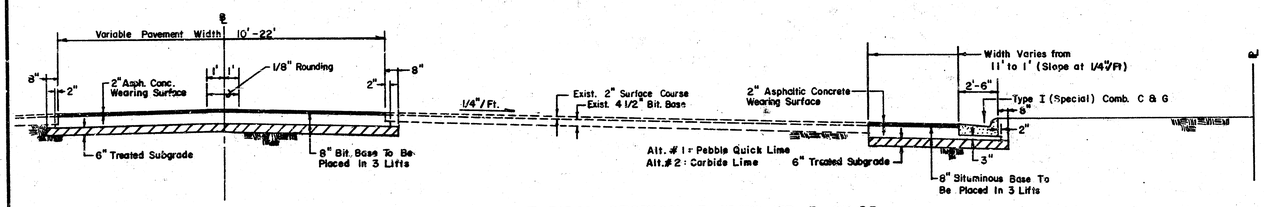
TYPICAL SECTION 0+70 TO 2+00
1" = 4'



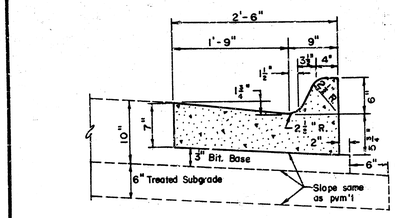
TYPICAL SECTION 2+00 TO 2+94.52
1" = 4'



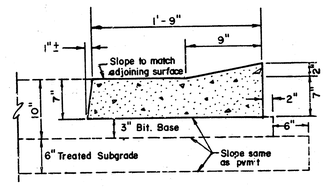
TYPICAL SECTION 2+94.92 TO 3+14.12
1" = 4'



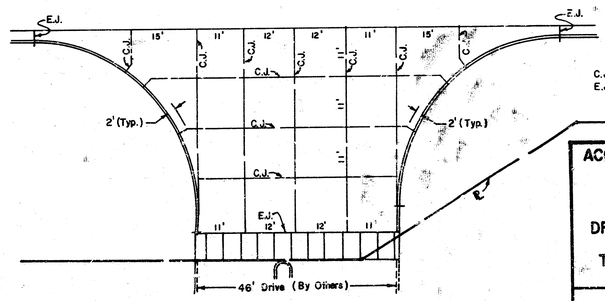
TYPICAL SECTION 3+15.76 TO 5+83.68
1" = 4'



TYPE I (SPECIAL)
COMBINED CURB & GUTTER
No Scale



TYPE II (SPECIAL)
COMBINED CURB & GUTTER
No Scale



DRIVE ENTRANCE JOINT DETAIL
1" = 15'

C.J. = Contraction joint
E.J. = Expansion joint

ACCEL-DECEL LANE 21st ST. N.

TYPICAL SECTIONS

DRIVE ENTRANCE JOINT DETAILS

TYPE I & TYPE II (SPECIAL) CURB AND GUTTER DETAILS

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